

**1170 ATLANTIC AVENUE
BALDWIN, NEW YORK
CUBESMART SELF STORAGE FACILITY
(FORMER SAFEGUARD SELF STORAGE)
SITE # V00523**

PERIODIC REVIEW REPORT

Submitted to:

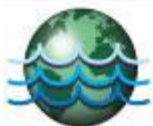


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LIST OF ACRONYMS

ACRONYM	DEFINITION
DO	Dissolved Oxygen
EC/ICs	Engineering and institutional controls
EE	Environmental Easement
GQS	Groundwater Quality Standards
IRM	Interim Remedial Measure
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
ORP	Oxygen-reduction potential
PE	Professional Engineer
PRAP	Proposed Remedial Action Plan
PWGC	P.W. Grosser Consulting, Inc.
QA/QC	Quality Assurance / Quality Control
ROD	Record of Decision
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVOC	Semi-Volatile Organic Compound
UIC	Underground Injection Control
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This *Periodic Review Report* (PRR) has been prepared by P.W. Grosser Consulting Inc. (PWGC) on behalf of CubeSmart Self Storage to document the groundwater sampling event which occurred at the property located at 1170 Atlantic Avenue, Baldwin, New York (a Site Location Map is included as **Figure 1**), and to document the compliance with the requirements specified in the NYSDEC-approved *Site Management Plan* (SMP). The site is currently listed as a New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Site identified as I.D. No. V00523.

An electronic components manufacturer, LightAlarms Electronics Corporation (LEC), formerly operated at the subject site. LEC utilized a solvent dip tank with 1,1,1-trichloroethane. The solvent was discharged to an on-site drywell, which subsequently impacted the surrounding soils and groundwater. The prospective buyer of the property (Safeguard Properties LLC) entered into the subject VCA in 2002, agreeing to address environmental contamination at the site. After the subject drywell was removed, an extensive remedial investigation was performed to determine the extent of impact. An IRM was performed to remove the impacted soils and treat groundwater in the former source area. The IRM included remedial excavation and the application of Hydrogen Release Compound.

As a result, 1,1,1-TCA is no longer detected in site monitoring wells, and the levels of daughter compounds (1,1-DCA, chloroethane, and vinyl chloride) have substantially decreased.

Based on the length of time since the IRM, it is likely that the HRC has completed its reaction with VOCs at the subject site. This is an indication that natural attenuation processes at the site are responsible for the reduction in VOCs since the previous sampling. VOCs are expected to follow this decreasing trend.

PWGC recommends the performance of another round of groundwater sampling, to be performed 18 months after the September 2016 sampling. The next event will occur in March 2018.

The Institutional Controls Certification forms for the site are attached as **Appendix A**.

1.0 SITE OVERVIEW

The site is located in the Hamlet of Baldwin, County of Nassau, New York and is identified as Block 46, Lot 62 on the Nassau County Tax Map. The site is an approximately 2.7-acre area bounded by Atlantic Avenue to the north, and by Milburn Creek to the south, east, and west (see Figure 2).

The site was reportedly built up from the Milburn Creek streambed. The creek was rerouted around the resulting peninsula. The site is bounded on four sides by bulkheads, except for the site's access driveway at the northeast corner of the property. The property's soil is apparently comprised of dredge spoils from the stream bed of Milburn Creek.

The site was used as a boat storage and repair yard dating back to at least 1941. In 1974, the currently-existing building was constructed and used as an indoor tennis facility. The site usage of the building changed in 1983 (according to building department records), as Lightalarms Electronics Corporation (LEC) took over the site. LEC manufactured emergency lighting equipment at this facility until the operation moved in 1998. LEC was known to have used paints and solvents in their operation. LEC's operations included the use of a spray booth, with a permitted exhaust to the outside, to spray paint light fixtures and other components. Prior to painting, the facility utilized a solvent dip tank containing 1,1,1-trichloroethane to clean metal parts in preparation for paint.

ATC Associates Inc. (ATC) performed a Limited Subsurface Investigation in 1997 and a Focused Subsurface Investigation in 2001 which documented the on-site contamination including chlorinated volatile organic compounds (VOCs) in the drywell located to the east of the subject building and in the soil and groundwater. The prospective buyer of the property (Safeguard Properties LLC) entered into the subject VCA in 2002, agreeing to address environmental contamination at the site. ATC subsequently performed a remediation and closure of the drywell.

The depth to water at the site ranges from 2 to 5 feet below the surface, and is affected by the tides. This groundwater is saline and is not drinkable. The uppermost soils from grade to 12 feet below the surface are a mix of dredge spoils (fill) from when the land was constructed, creek bottom sediments, buried marsh, and sands.

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the site. The results of the RI are described in detail in the following reports:

- Remedial Investigation Results and Supplemental Workplan, PWGC, January 2007
- Sub-Slab Vapor and Indoor Air Sampling Report, PWGC, April 2007
- Supplemental Remedial Investigation Report, PWGC, June 2008
- Deep Groundwater Sampling Report, PWGC, June 2009

- Monitoring Well Sampling Report, January 2010
- Monitoring Well Sampling Report, PWGC, October 2010
- Remedial Action Work Plan, PWGC, September 2014

Generally, the RI determined that contaminants of concern, including 1,1,1-trichloroethane (TCA), 1,1-dichloroethane (DCA), and chloroethane, exist in the subsurface of the site. Based on the investigation results, comparison to the Standards, Criteria, and Guidance (SCGs), and the potential public health and environmental exposure routes, certain media and areas of the site required remediation.

Below is a summary of site conditions when the RI was performed, prior to the implementation of the Interim Remedial Measure (IRM) in 2011:

Soil

In 2004 the drywell of concern and its contents were removed by ATC. A reported six tons of material was disposed. PWGC performed soil borings in the vicinity of the former drywell in October 2007 to address Nassau County Department of Health (NCDH) concerns that the soils adjacent to the former drywell were impacted by improper discharge, despite ATC's remedial effort. At each of four boring locations, the 7.5' to 10' interval was submitted for analysis.

Analytical results of the drywell investigation indicated that detected concentrations of VOCs were within NYSDEC 6 NYCRR Part 375 Commercial Use Cleanup Objectives (SCOs).

Results of a site investigation conducted by ATC in March 2005 indicated elevated concentrations of semi-volatile organic compounds (SVOCs) and metals in surface soil samples collected from locations surrounding the site's building. The NYSDEC determined that SVOC and/or mercury concentrations at three locations warranted further investigation.

To address surface soil quality at the selected areas, PWGC collected additional surface samples in October 2007 from these locations.

Detected concentrations of mercury were well within Commercial Use SCOs.

Surface soil sampling analytical data indicated concentrations of the SVOC benzo(a)pyrene above Commercial Use SCOs in 2 of the 12 samples collected from the asphalt-paved area to the north of the building, and in the grass area to the east of the building. The site soils are comprised of dredged material from Milburn Creek (the surrounding waterway). The SVOCs detected in these soils may be traced to biological decay inherent in stream beds, and/or diesel fuel from boat traffic in the waterway.

The surface soils at the site are either capped with asphalt pavement, or stabilized with grass. There are no unstabilized surface soils observed at the subject site. Based on this, the risk of airborne exposure to the SVOCs appears to be low.

The grass areas of the site are not regularly utilized by facility customers or employees, as regular access to the building is through paved areas. Furthermore, access to the site is restricted to employees and customers with fencing and a gate. Based on this, exposures from soil contact is limited.

Site-Related Groundwater

Groundwater conditions are discussed in Section 2 below.

Monitoring wells MW-1 and MW-2 were last sampled in April 2008. VOCs have not been detected in these two wells, indicating that the locations are outside the impacted area. Accordingly, these wells have not been included in subsequent sampling rounds.

Site-Related Soil Vapor Intrusion

In February 2007, PWGC performed a sampling of the sub-slab vapor and indoor air at the subject building. The work was performed pursuant to the requirements of the NYSDEC, as detailed in the NYSDEC-approved "Sub-Slab Vapor and Indoor Air Sampling Plan," which was previously submitted under separate cover by PWGC in October 2006. The sampling was performed in accordance with the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," October 2006.

Four sub-slab vapor samples, four corresponding indoor air samples, and one outdoor air samples were collected. The highest concentrations of chlorinated VOCs detected in the sub-slab vapor samples included 1,1,1-TCA at 16 µg/m³, 1,1-DCA at 13 µg/m³, PCE at 36 µg/m³, and TCE at 12 µg/m³. These VOCs were not detected in the indoor air samples.

Analytical results were evaluated utilizing the Soil Vapor / Indoor Air Matrices contained in the NYSDOH Vapor Intrusion Guidance document. The recommendation derived from the matrices, given the analytical results, was no further action.

The site was remediated in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan dated August 2011 and Remedial Action Work Plan dated September 2014.

The following is a summary of the Remedial Actions performed at the site:

Removal of Contaminated Materials from the Site

1. Excavation of soil and in-situ chemical reduction (ISCR): As part of the IRM, soils in the area of the former drywell of concern which were apparently impacting groundwater, were excavated and transported off-site for disposal. Approximately 42 tons of soil were removed to a depth of approximately eight feet bgs. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) for commercial use was brought in to complete the backfilling of the excavation. As part of this IRM, ISCR was implemented to treat contaminants in groundwater. Prior to backfilling the excavation, Hydrogen Release Compound (HRC®) was applied in the excavation to reduce the residual VOCs in the groundwater. The excavation work and the application of HRC® have been effective in reducing groundwater contamination in the area of the former drywell. In 2004 the

drywell of concern and its contents were removed by ATC. A reported six tons of material was disposed. The removal of the drywell structure was confirmed during the 2011 IRM excavation;

2. Execution and recording of Declaration of Covenants and Restrictions to restrict land use and prevent future exposure to any contamination remaining at the site. Elements of the Declaration of Covenants and Restrictions include a requirement of the remedial party or site owner to complete and submit to the NYSDEC a periodic certification of institutional controls and a restriction on groundwater use for potable or process water without necessary water quality treatment as determined by the NYSDOH or the Nassau County Department of Health (NCDH);

3. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Declaration of Covenants and Restrictions, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting. The SMP was approved by the NYSDEC via a Release and Covenant Not to Sue dated September 2, 2015.

Remedial activities were completed at the site in September 2014 upon approval of the RAWP.

Ownership of the subject property was transferred from Safeguard to CubeSmart in 2015 along with responsibility for adherence to the specifications of the SMP. CubeSmart directly notified the NYSDEC of the ownership transfer. Site usage remains self-storage.

2.0 GROUNDWATER SAMPLING – SEPTEMBER 2016

Groundwater sampling from the four monitoring wells in which residual concentrations of VOCs were previously detected (MW-3, MW-4, MW-5, and MW-6A) was performed on September 28, 2016 following the procedures specified in PWGC's NYSDEC-approved SMP, April 2015. Monitoring well locations are indicated on **Figure 2**.

The monitoring wells were sampled utilizing a low stress (low flow) method to collect representative samples while producing a minimal amount of purge water. Field parameters, including dissolved oxygen (DO), conductivity, pH, oxidation reduction potential (ORP), turbidity, and temperature, were recorded from the four monitoring wells. Sampling was performed with a submersible pump with an adjustable flow rate. Purging of each well continued until parameters stabilized and turbidity was substantially reduced. These parameters were measured in order to aid in the evaluation of natural attenuation. Samples were collected directly from the polyethylene tubing into laboratory-supplied glassware upon stabilization of field parameters.

Sampling equipment was decontaminated prior to the collection of each sample with an Alconox® solution. Purged water was containerized in a 55-gallon drum pending proper disposal. Well Sampling Logs are included as **Appendix B**.

Samples were collected into laboratory-supplied glassware and placed in a cooler with ice for transport to Alpha Analytical Laboratories of Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory. The samples were analyzed for the presence of VOCs by United States Environmental Protection Agency (USEPA) Method 8260 (NYSDEC TCL) with the addition of 1,4-dioxane. 1,4-Dioxane is on the list of substances not regulated by the principal organic contaminant groundwater standard, included in NYSDEC TOGS 1.1.1. 1,4-Dioxane is not on the NYSDEC TCL, but was specifically required to be analyzed for this sampling event. The occurrence of 1,4-Dioxane at the Site is likely a result of its usage as a stabilizer for 1,1,1-TCA. Laboratory Data Reports are included in **Appendix C**.

2.1 Quality Assurance / Quality Control

QA/QC for the groundwater sampling event included the following of ASP-B protocols, including the analysis of a trip blank, and the collection and analysis of a blind duplicate, a field blank, a matrix spike sample, and a matrix spike duplicate. The accuracy, precision, and completeness requirements were addressed by the laboratory for the data generated. Alpha indicated in an analytical narrative report of the sampling (included in **Appendix C**) that the samples were received in accordance with the chain of custody and no significant deviations were encountered during the preparation or analysis.

The sampling results were submitted to Stone Environmental, Inc. (Stone) of Montpelier, Vermont for a third-party quality assurance evaluation. The sample data was considered for full data validation. Stone concluded

that the overall quality of the data was acceptable and all results as qualified are considered usable. The Data Usability Summary Report is included as **Appendix D**.

2.2 Groundwater Analytical Results

Analytical results of the September 2016 sampling event were compared to NYSDEC Groundwater Standards, and to the results of previous sampling events, the latest occurring in July 2013, in order to evaluate the effectiveness of the IRM and monitor attenuation trends. The analytical results are summarized on **Tables 1** and **2** and the laboratory data sheets are included in **Appendix C**.

Overall, the analytical results indicate that VOC concentrations have substantially decreased since the July 2013 event.

At monitoring well MW-6A, located in the center of the former IRM excavation, 1,1,1-trichloroethane (1,1,1-TCA) has decreased from 80 µg/L in 2013 to not detected during this event. 1,1-Dichloroethane (1,1-DCA) decreased from 540 µg/L to 2.8 µg/L, chloroethane decreased from 1,100 µg/L to 270 µg/L, and vinyl chloride decreased from 8.8 µg/L to below the reporting limit. An estimated value of 100 µg/L for 1,4-Dioxane was detected in MW-6A. 1,4-Dioxane is not on the NYSDEC TCL, but was specifically required to be analyzed for this site. A NYSDEC Groundwater Standard has not been specified for 1,4-dioxane.

At monitoring well MW-5, located in the vicinity of the former source area and adjacent to the bulkhead, chloroethane decreased from 870 µg/L to not detected. 1,4-Dioxane was detected in MW-5 at 740 µg/L. No other VOCs were detected in MW-5 above reporting limits.

At monitoring well MW-3, located in the southernmost portion of the site, 1,1-DCA decreased from 2,100 µg/L to not detected, and chloroethane decreased from 3,600 µg/L to 320 µg/L. 1,4-Dioxane was estimated at 860 µg/L. No other VOCs were detected above reporting limits.

At monitoring well MW-4, located to the north of the former source area, VOCs remained below reporting limits. MW-4 has remained consistently outside the area of VOC impact.

It is important to note that vinyl chloride was not detected in the 2016 sampling event at concentrations exceeding reporting limits, and that the estimated values were below the NYSDEC Standard of 2 µg/L.

The compound reportedly used at the former Lightalarms facility was 1,1,1-TCA, which was detected in the source area monitoring wells, is no longer detected in site monitoring wells. The daughter compounds of 1,1,1-TCA, including 1,1-DCA, chloroethane and vinyl chloride have varied throughout the monitoring events between 2008 and 2013, but have also substantially decreased in the former source area.

Given that 1,4-dioxane has not been previously analyzed at the Site, a trend cannot be established. However, given its association with 1,1,1-TCA, PWGC believes that this compound will follow a similar trend and continually decrease as well.

3.0 BULKHEAD REPLACEMENT

Ground-intrusive activities performed during the review period included bulkhead replacement along the west perimeter of the property to replace the deteriorated bulkhead, which included the excavation of soil adjacent to the bulkhead. This area is located on the opposite side of the Site from the residually-impacted area. The lack of impact is evidenced by the historical data from former monitoring wells MW-1 and MW-2, located in the bulkhead replacement area, to the west and north of the subject building, respectively. Monitoring wells MW-1 and MW-2 were removed from the sampling regimen after the April 2008 sampling event, as the wells were consistently located outside the area of impact.

PWGC submitted a notification to the NYSDEC on March 23, 2016 of the bulkhead work in accordance with the site-specific Excavation Work Plan (EWP) included as Appendix A of the SMP. The notification is also included with this report in **Appendix E**. This work occurred between March and July 2016. PWGC provided excavation oversight and CAMP monitoring during excavation. Excavated soils were screened with a photo-ionization detector (PID) equipped with an 11.7 eV lamp. In one location in the southern end of the excavation, a PID response above background levels was observed. A sample of the soil was collected and submitted to Alpha for analysis of VOCs (NYSDEC TCL) by USEPA Method 8260. Detected VOCs were below Unrestricted SCOs.

CAMP monitoring included screening with a PID and a particulate dust meter. A PID response above background levels was not observed in the excavation area or downwind of the excavation area. Dust levels remained below Action Levels. A high moisture content in the soil prevented dust migration. Dust mitigation measures were not necessary.

Excavation during the bulkhead replacement activities occurred intermittently, with most of the effort dedicated to bulkhead construction, rather than excavation. Based on the intermittent excavation, on-site monitoring was performed on a sporadic basis as it was confirmed that the work area was outside the impacted area. This strategy was agreed upon by the NYSDEC. Field reports with photo-documentation summarizing field activities and monitoring results were submitted to the NYSDEC during the project and are included in **Appendix E**.

To finish the bulkhead work, approximately 300 cubic yards of topsoil was imported from Oak Hills residential development in Dix Hills, New York. PWGC sampled the stockpile of soil which was set aside for the subject site. The soils were submitted for analysis of the NYSDEC Part 375 list of VOCs, SVOCs, metals, herbicides, PCBs, and pesticides. The data was compared to NYSDEC Commercial Use SCOs and Protection of Groundwater SCOs in accordance with the SMP. All detected parameters were below these SCOs. The data was submitted to the NYSDEC in July 2016. The NYSDEC approved the use of the soil based on the data in an email dated July 19, 2017. This email along with the laboratory data is included as **Appendix E**. Following topsoil application, the site was stabilized with grass.

4.0 SITE-WIDE INSPECTION

The SMP was developed to confirm that the site remedy continues to be effective in protecting public health and the environment. The SMP specifies a site-wide inspection on an 18-month basis. During these inspections, an inspection form is completed (**Appendix E**). The form is used to compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the SMP; and
- Confirm that site records are up to date.

The site-wide inspection was performed on October 12, 2016 by John Eichler, a representative of PWGC.

The groundwater monitoring system was inspected for signs of damage. The monitoring wells appeared to be in good condition with plugs and protective covers.

During the inspection, the area of the new bulkhead appeared to be restored to the same dimensions as before the project. A new layer of topsoil and grass had been placed on top of disturbed areas during restoration. This bulkhead work was performed on the opposite side of the property from the VOC-impacted area.

Based upon the findings of the site-wide inspection, no corrective actions are recommended at this time.

5.0 CONCLUSIONS AND RECOMMENDATIONS

1,1,1-TCA was utilized in former on-site operations as a degreaser. Through remedial investigation, it was concluded that the compound was discharged to the on-site drywell located on the east side of the property. The objective of the IRM was to substantially reduce the mass of VOC impact located at the source area of the subject site. The removal of the former drywell, the remedial excavation of the surrounding impacted soils, and the application of HRC into the excavated area, eliminated this source. As a result, 1,1,1-TCA is no longer detected in site monitoring wells, and daughter compounds (1,1-DCA, chloroethane, and vinyl chloride) have substantially decreased as well.

Based on the length of time since the IRM, it is likely that the HRC has completed its reaction with VOCs at the subject site. This is an indication that natural attenuation processes at the site are responsible for the reduction in VOCs since the previous sampling. VOCs are expected to follow this decreasing trend.

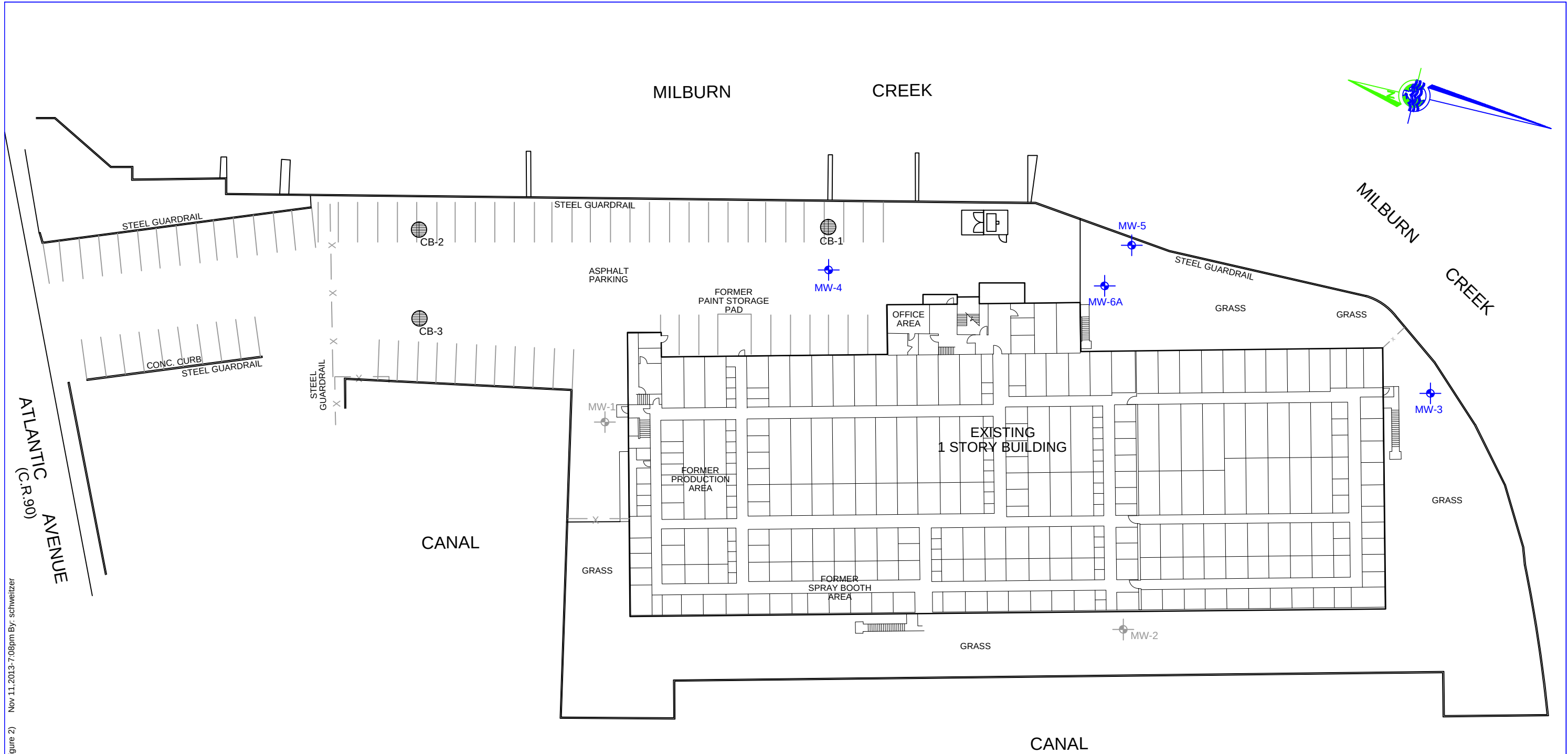
1,4-dioxane was detected in MW-5 at a concentration of 740 µg/L. There is no NYSDEC Standard for 1,4-dioxane. It will be included in the subsequent sampling round as well, as specifically required by the NYSDEC.

The SMP indicates that the criteria for contingency implementation for the area of MW-3 would be for a total VOC concentration of greater than 5,700 µg/L for two consecutive sampling events. The criteria for the other wells would be for a total increase of greater than 2,000 µg/L above the total VOCs detected in the July 2013 sampling event, for two consecutive sampling events. The September 2016 sampling event represents the first sampling since the July 2013 event and total VOC concentrations, with 1,4-dioxane included, are lower in September 2016 than in July 2013. Based on this, implementation of the contingency is not appropriate at this time.

PWGC recommends the performance of another round of groundwater sampling, to be performed 18 months after the September 2016 sampling. The next event will occur in March 2018.

FIGURES

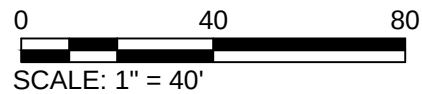
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LEGEND

-  MONITORING WELL
-  MONITORING WELL (NOT IN USE)
-  CATCH BASIN
-  CHAIN LINK FENCE
-  STORAGE UNIT

BASEMAP PROVIDED BY:
ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND
MATERIALS PROFESSIONALS
104 E.25th ST, 10th FLOOR
NEW YORK, NY 10010



SITE PLAN
1170 ATLANTIC AVENUE
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Project:	SSS1101	Designed By:	JE	Figure No:	2
CADD Operator:	DCS	Approved By:	PWG	Date:	11/4/13

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING AND RELATED DOCUMENTS IS A VIOLATION OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

TABLES

Table 1
Groundwater Analytical Results - VOCs
1170 Atlantic Avenue, Baldwin, New York

LOCATION				MW-3		MW-4		MW-5		MW-6A	
SAMPLING DATE				9/28/2016		9/28/2016		9/28/2016		9/28/2016	
LAB SAMPLE ID				L1630897-01		L1630897-04		L1630897-02		L1630897-03	
		NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS											
	1,1,1,2-Tetrachloroethane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,1,1-Trichloroethane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,1,2,2-Tetrachloroethane	5	ug/l	5	U	0.5	U	0.5	U	0.5	U
	1,1,2-Trichloroethane	1	ug/l	15	U	1.5	U	1.5	U	1.5	U
	1,1-Dichloroethane	5	ug/l	25	U	2.5	U	2.5	U	2.8	
	1,1-Dichloroethene	5	ug/l	5	U	0.5	U	0.5	U	0.5	U
	1,1-Dichloropropene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2,3-Trichlorobenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2,3-Trichloropropane	0.04	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2,4,5-Tetramethylbenzene	5	ug/l	20	U	2	U	2	U	2	U
	1,2,4-Trichlorobenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2,4-Trimethylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2-Dibromo-3-chloropropane	0.04	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2-Dibromoethane	0.0006	ug/l	20	U	2	U	2	U	2	U
	1,2-Dichlorobenzene	3	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2-Dichloroethane	0.6	ug/l	5	U	0.5	U	0.5	U	0.26	J
	1,2-Dichloroethene, Total		ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,2-Dichloropropane	1	ug/l	10	U	1	U	1	U	1	U
	1,3,5-Trimethylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,3-Dichlorobenzene	3	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,3-Dichloropropane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,3-Dichloropropene, Total		ug/l	5	U	0.5	U	0.5	U	0.5	U
	1,4-Dichlorobenzene	3	ug/l	25	U	2.5	U	2.5	U	2.5	U
	1,4-Dioxane		ug/l	860	J	250	U	740		100	J
	2,2-Dichloropropane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	2-Butanone	50	ug/l	50	U	5	U	5	U	5	U
	2-Hexanone	50	ug/l	50	U	5	U	5	U	5	U
	4-Methyl-2-pentanone		ug/l	50	U	5	U	5	U	5	U
	Acetone	50	ug/l	50	U	4.6	J	5	U	5	U
	Acrylonitrile	5	ug/l	50	U	5	U	5	U	5	U
	Benzene	1	ug/l	5	U	0.16	J	0.5	U	0.5	U
	Bromobenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Bromochloromethane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Bromodichloromethane	50	ug/l	5	U	0.5	U	0.5	U	0.5	U
	Bromoform	50	ug/l	20	U	2	U	2	U	2	U
	Bromomethane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Carbon disulfide	60	ug/l	50	U	5	U	5	U	5	U
	Carbon tetrachloride	5	ug/l	5	U	0.5	U	0.5	U	0.5	U
	Chlorobenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Chloroethane	5	ug/l	320		2.5	U	2.5	U	270	D
	Chloroform	7	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Chloromethane		ug/l	25	U	2.5	U	2.5	U	2.5	U
	cis-1,2-Dichloroethene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	cis-1,3-Dichloropropene	0.4	ug/l	5	U	0.5	U	0.5	U	0.5	U
	Dibromochloromethane	50	ug/l	5	U	0.5	U	0.5	U	0.5	U
	Dibromomethane	5	ug/l	50	U	5	U	5	U	5	U
	Dichlorodifluoromethane	5	ug/l	50	U	5	U	5	U	5	U
	Ethyl ether		ug/l	25	U	2.5	U	0.7	J	2.5	U
	Ethylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Hexachlorobutadiene	0.5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Isopropylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Methyl tert butyl ether	10	ug/l	25	U	0.94	J	2.5	U	2.5	U
	Methylene chloride	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	n-Butylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	n-Propylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Naphthalene	10	ug/l	25	U	2.5	U	2.5	U	2.5	U
	o-Chlorotoluene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	o-Xylene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	p-Chlorotoluene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	p-Diethylbenzene		ug/l	20	U	2	U	2	U	2	U
	p-Ethyltoluene		ug/l	20	U	2	U	2	U	2	U
	p-Isopropyltoluene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	p/m-Xylene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	sec-Butylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Styrene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	tert-Butylbenzene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Tetrachloroethene	5	ug/l	5	U	0.5	U	0.5	U	0.5	U
	Toluene	5	ug/l	25	U	1.4	J	2.5	U	2.5	U
	trans-1,2-Dichloroethene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	trans-1,3-Dichloropropene	0.4	ug/l	5	U	0.5	U	0.5	U	0.5	U
	trans-1,4-Dichloro-2-butene	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Trichloroethene	5	ug/l	5	U	0.5	U	0.5	U	0.5	U
	Trichlorofluoromethane	5	ug/l	25	U	2.5	U	2.5	U	2.5	U
	Vinyl acetate		ug/l	50	U	5	U	5	U	5	U
	Vinyl chloride	2	ug/l	10	U	1	U	0.08	J	0.63	J
	Xylenes, Total		ug/l	25	U	2.5	U	2.5	U	2.5	U

NY-AWQS - New York State Department of Environmental Conservation Ambient Water Quality Standards
highlighted value indicates exceedance of NY-AWQS

U - analyte not detected
J - estimated value; analyte detected below the reporting limit
D - concentration of analyte was quantified from diluted analysis

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS FOR
VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8260

1170 Atlantic Avenue - Baldwin, New York

Compound	NYSDEC Standards	MW-1 4/9/08	MW-2 4/9/08	MW-3								MW-4							
				4/9/08	7/20/10	10/25/10	5/30/12	8/29/12	12/3/12	7/12/13	9/28/16	4/9/08	7/20/10	10/25/10	5/30/12	8/29/12	12/3/12	7/12/13	9/28/16
VOCs by 8260 - ug/L																			
1112Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
111 Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1122Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
112 Trichloro-122 trifluoroet	5	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
112 Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	4	ND	ND	680	43.9	7.08	2300	460	180	2100	ND	2.3	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1245 Tetramethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
124-Trichlorobenzene (v)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
124-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12 Dibromo 3 chloropropan	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene (v)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77 J	ND	ND	ND	ND
1,2 Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34 J	ND	ND
1,2 Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
135-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene (v)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene (v)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane		NA	NA	NA	NA	NA	NA	NA	NA	NA	860 J	NA	NA	NA	NA	NA	NA	NA	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	ND	ND	ND	ND	ND	ND	28 J	ND	68 J	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
2-Hexanone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
4-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	ND	ND	ND	ND	22 J	37 J	ND	ND	ND	ND	ND	ND	3.0 J	3.6 J	14	ND	4.6 J
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16 J
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60***	ND	ND	ND	ND	ND	ND	31 J	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
Chloroethane	5	ND	ND	ND	417	139	2200	730	2400	3600	320	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	20 J	ND	ND	44 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
c-1,3Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlordifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
ter. ButylMethylEther	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74 J	ND	0.94 J
Methylene Chloride	5	4.5 B	4.1 B	4.6 B	ND	ND	ND	ND	ND	ND	ND	4.3 B	ND	ND	ND	ND	ND	ND	ND
Napthalene(v)	10*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p Diethylbenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
p-Ethyltoluene	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
TAME		ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
t-Butyl alcohol	NS	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J
t-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,3Dichloropropene	0.4 ⁽¹⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	13 J	ND	ND	24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
** - NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998
*** - NYSDEC Ambient Water Quality Standards and Guidance Values, Addendum April 2000
* - Guidance Value
< - Indicates the compound was analyzed but not detected
NS - No Standard
Bold/shaded- Indicated exceedance of the NYSDEC Groundwater Standard
⁽¹⁾ Applies to sum of cis and trans 1,3
J - Estimated Value
B - Estimated Value
NA - Not Analyzed

TABLE 2 HISTORICAL GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS EPA METHOD 8260 1170 Atlantic Avenue - Baldwin, New York																		
Compound	NYSDEC Standards	MW-5									MW-6			MW-6A				
		4/9/08	5/7/09	7/20/10	10/25/10	5/30/12	8/29/12	12/3/12	7/12/13	9/28/16	4/9/08	7/20/10	10/25/10	5/30/12	8/29/12	12/3/12	7/12/13	9/28/16
VOCs by 8260 - ug/L																		
1112Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
111 Trichloroethane	5	390	250	2.23	14.7	ND	ND	ND	ND	ND	1.1	ND	ND	87	62	18	80	ND
1122Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
112 Trichloro-122 trifluoroethane	5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
112 Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	4	1800	2100	2450	1270	24 J	ND	ND	ND	ND	6.5	ND	ND	500	430	210	540	2.8
1,1 Dichloroethene	5	11	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	ND	1.2 J	ND	ND
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
123-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1245 Tetramethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
124-Trichlorobenzene (v)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
124-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromo 3 chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene (v)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane	0.6	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26 J
1,2 Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
135-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene (v)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene (v)	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane		NA	NA	NA	NA	NA	NA	NA	NA	740	NA	NA	NA	NA	NA	NA	NA	100 J
2,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NS	ND	ND	ND	ND	26 J	ND	ND	16 J	ND	ND	ND	ND	ND	31 J	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
2-Hexanone	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
4-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
4-Methyl-2-pentanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50*	ND	ND	ND	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND	ND	25 J	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	0.61 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22 J	ND
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
Chloroethane	5	560	970	1420	701	2200	2200	1700	870	ND	ND	ND	ND	940	580	1100	1100	270
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	5	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8 J	ND	ND	ND	ND
c-1,3Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
tert-ButylMethylEther	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	4.6 B	7.3 B	ND	ND	ND	ND	ND	ND	ND	3.8 B	<0.39	<0.39	ND	ND	ND	ND	ND
Naphthalene(v)	10*	ND	ND	ND	ND	80	2.4 J	ND	ND	ND	ND	ND	ND	13	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p Diethylbenzene	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
p-Ethyltoluene	NS	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND
TAME		ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
t-Butyl alcohol	NS	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,3Dichloropropene	0.4 ⁽¹⁾	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27 J	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	31	19.6	ND	ND	ND	ND	ND	0.08 J	ND	ND	ND	5.4	8.0 J	3.9 J	8.8	0.63 J

APPENDIX A

IC Certification Forms



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1
Site No. V00523		
Site Name Safeguard Storage Baldwin Site		
Site Address: 1170 Atlantic Avenue Zip Code: 11510 City/Town: Baldwin County: Nassau Site Acreage: 2.7		
Reporting Period: September 02, 2015 to November 02, 2016		
		YES NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

		Box 2
		YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address these issues.		
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date

SITE NO. V00523

Box 3

Description of Institutional Controls

Parcel

54-48-62

Owner

CubeSmart, LP.

Institutional Control

Ground Water Use Restriction

Soil Management Plan

Landuse Restriction

Monitoring Plan

Site Management Plan

IC/EC Plan

- Compliance with the Declaration of Covenants and Restrictions and this SMP by the Grantor and the Grantor's successors and assigns;
- Groundwater monitoring must be performed as defined in this SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP.

Description of Engineering Controls

Box 4

None Required

Not Applicable/No EC's

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00523

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Eichler at 630 Johnson Ave, Bohemia, NY
print name print business address

am certifying as Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

4/28/17
Date

IC/EC CERTIFICATIONS

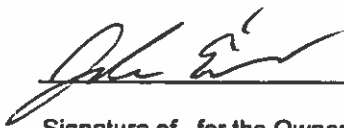
Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Eichler at 630 Johnson Ave, Bohemia, NY
print name print business address

QEP
am certifying as a for the Owner
(Owner or Remedial Party)



Signature of , for the Owner or Remedial Party,
Rendering Certification

Stamp
(Required for PE)

4/28/17

Date

APPENDIX B

Monitoring Well Sampling Logs

P.W. GROSSER CONSULTING, INC.
Monitoring Well Sampling Log

SITE INFORMATION

SITE ID/PROJECT NUMBER:	CUE1601		
SAMPLING POINT	MW-3	SAMPLED BY	NR
DATE SAMPLED	9/28/2016	TIME SAMPLED	10:55
STATIC WATER ELEVATION (feet)	4.26	TOTAL WELL DEPTH (feet)	11.74
WELL DIAMETER (inches)	2		

SAMPLING INFORMATION

PURGE METHOD	grundfos pump	SAMPLE METHOD	grundfos pump
PURGE RATE (GPM)	see below	PURGE TIME (Min)	see below
SAMPLE APPEARANCE	light grey	ODORS OBSERVED	slight organic
ANALYSIS	VOCs 8260	LABORATORY	ALPHA
DATE SHIPPED		SHIPPING METHOD	courier

SAMPLING PARAMETERS

Time	Flow Rate (mL/min)	pH	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (°C)	DO
10:33		6.62	10.3	391	-214	22.85	4.93
10:36		6.58	17.0	270	-246	22.63	4.03
10:39		6.53	13.4	354	-312	22.58	4.48
10:42		6.50	13.8	243	-338	22.07	3.84
10:45		6.52	13.7	225	-343	21.57	3.38
10:48		6.66	13.4	215	-343	21.40	2.56

Notes:

Flow Rate - between 200 - 500 mL/min

pH - ±0.1

Conductivity - ±3%

ORP - ±10 mV

DO - ±10%

Turbidity - ±10%

P.W. GROSSER CONSULTING, INC.
Monitoring Well Sampling Log

SITE INFORMATION

SITE ID/PROJECT NUMBER:	CUE1601		
SAMPLING POINT	MW-4	SAMPLED BY	NR
DATE SAMPLED	9/28/2016	TIME SAMPLED	13:07
STATIC WATER ELEVATION (feet)	3.45	TOTAL WELL DEPTH (feet)	9.70
WELL DIAMETER (inches)	2		

SAMPLING INFORMATION

PURGE METHOD	grundfos pump	SAMPLE METHOD	grundfos pump
PURGE RATE (GPM)	see below	PURGE TIME (Min)	see below
SAMPLE APPEARANCE	light grey	ODORS OBSERVED	none
ANALYSIS	VOCs 8260	LABORATORY	ALPHA
DATE SHIPPED	9/28/2016	SHIPPING METHOD	courier

SAMPLING PARAMETERS

Time	Flow Rate (mL/min)	pH	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (°C)	DO
12:44		6.52	2.3	796	-290	25.29	10.91
12:49		6.10	2.5	510	-306	26.42	7.66
12:52		6.10	2.7	364	-323	26.40	4.45
12:55		6.13	9.1	306	-320	27.75	3.26
12:58		6.05	10.1	89	-326	27.20	2.31
13:01		6.07	9.8	91	-315	27.71	2.95
13:04		6.03	10.6	87	-311	27.64	2.31
13:06		6.06	10.2	84.0	-315	27.09	2.42

Notes:

Flow Rate - between 200 - 500 mL/min

pH - ±0.1

Conductivity - ±3%

ORP - ±10 mV

DO - ±10%

Turbidity - ±10%

P.W. GROSSER CONSULTING, INC.
Monitoring Well Sampling Log

SITE INFORMATION

SITE ID/PROJECT NUMBER:	CUE1601		
SAMPLING POINT	MW-5	SAMPLED BY	NR
DATE SAMPLED	9/28/2016	TIME SAMPLED	11:45
STATIC WATER ELEVATION (feet)	3.85	TOTAL WELL DEPTH (feet)	11.45
WELL DIAMETER (inches)	2		

SAMPLING INFORMATION

PURGE METHOD	grundfos pump	SAMPLE METHOD	grundfos pump
PURGE RATE (GPM)	see below	PURGE TIME (Min)	see below
SAMPLE APPEARANCE	slight red brown	ODORS OBSERVED	slight organic
ANALYSIS	VOCs 8260	LABORATORY	ALPHA
DATE SHIPPED	9/28/2016	SHIPPING METHOD	courier

SAMPLING PARAMETERS

Time	Flow Rate (mL/min)	pH	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (°C)	DO
11:30		7.00	2.6	1000	-247	22.46	7.14
11:33		6.89	2.6	923	-250	22.70	2.90
11:36		6.86	2.5	0	-255	22.62	1.54
11:39		6.87	2.5	0	-258	22.20	1.08
11:42		6.86	2.5	1000	-260	21.80	1.02

Notes:

Flow Rate - between 200 - 500 mL/min

pH - ±0.1

Conductivity - ±3%

ORP - ±10 mV

DO - ±10%

Turbidity - ±10%

P.W. GROSSER CONSULTING, INC.
Monitoring Well Sampling Log

SITE INFORMATION

SITE ID/PROJECT NUMBER:	CUE1601		
SAMPLING POINT	MW-6A	SAMPLED BY	NR
DATE SAMPLED	9/28/2016	TIME SAMPLED	12:25
STATIC WATER ELEVATION (feet)	4.89	TOTAL WELL DEPTH (feet)	11.90
WELL DIAMETER (inches)	2		

SAMPLING INFORMATION

PURGE METHOD	grundfos pump	SAMPLE METHOD	grundfos pump
PURGE RATE (GPM)	see below	PURGE TIME (Min)	see below
SAMPLE APPEARANCE	turbid brown	ODORS OBSERVED	none
ANALYSIS	VOCs 8260	LABORATORY	ALPHA
DATE SHIPPED	9/28/2016	SHIPPING METHOD	courier

SAMPLING PARAMETERS

Time	Flow Rate (mL/min)	pH	Cond. (mS/cm)	Turbidity (NTU)	ORP (mV)	Temp. (°C)	DO
12:07		7.03	2.4	310	-198	22.24	10.49
12:10		6.91	2.4	402	-218	23.05	4.49
12:13		6.89	2.5	410	-230	23.35	2.62
12:16		6.87	2.5	376	-238	23.38	1.66
12:19		6.85	2.5	353	-242	23.33	1.29
12:22		6.85	2.5	347	-248	23.25	1.09

Notes:

Flow Rate - between 200 - 500 mL/min

pH - ±0.1

Conductivity - ±3%

ORP - ±10 mV

DO - ±10%

Turbidity - ±10%

APPENDIX C

Laboratory Reports



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L1630897

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

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Project Name: CUE1601
Project Number: CUE1601

Lab Number: L1630897
Report Date: 10/14/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1630897-01	MW-3	WATER	Not Specified	09/28/16 10:55	09/29/16
L1630897-02	MW-5	WATER	Not Specified	09/28/16 11:45	09/29/16
L1630897-03	MW-6A	WATER	Not Specified	09/28/16 12:25	09/29/16
L1630897-04	MW-4	WATER	Not Specified	09/28/16 13:07	09/29/16
L1630897-05	DUPE	WATER	Not Specified	09/28/16 00:00	09/29/16
L1630897-06	FIELD BLANK	WATER	Not Specified	09/28/16 13:15	09/29/16
L1630897-07	TRIP BLANK	WATER	Not Specified	09/28/16 00:00	09/29/16

Project Name: CUE1601
Project Number: CUE1601

Lab Number: L1630897
Report Date: 10/06/16

Case Narrative

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

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

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

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

HOLD POLICY

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

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



Project Name: CUE1601
Project Number: CUE1601

Lab Number: L1630897
Report Date: 10/06/16

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1630897-01, -03, and -05: The analysis was performed utilizing a compromised vial, with the client's authorization.

The WG939161-6/-7 MS/MSD recoveries, performed on L1630897-02, are below the acceptance criteria for 1,4-dioxane (0%/0%) due to the concentration of this compound falling below the reported detection limit.

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

Authorized Signature:



Report Date: 10/06/16

Title: Technical Director/Representative



List of Organic Method Qualifiers

Table 1

Qualifier (Q)	Description
B	Entered if the analyte is found in the associated blank as well as the sample.
C	Applied to pesticide results when the identification has been confirmed by GC/MS.
D	Included when the all identified compounds in the analysis are at the secondary dilution factor.
E	Identified compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value, may indicate one of the following, depending on the situation: (1) The reported value is estimated and below the MDL. (2) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero. (3) QC associated with this analyte is within warning limits.
N	Included for TIC that indicate presumptive evidence of a compound.
U	Entered if the analyte was analyzed for, but not detected.
P	Used for a pesticide/Aroclor target analyte when the concentration difference between 2 GC columns is greater than 25%; the lower value is flagged with a "P".
EMPC	"Estimated Maximum Possible Concentration" – The amount of analyte cannot be accurately quantified, so a maximum concentration has been estimated for the compound.
"XYZ"	"Wildcard" or Laboratory defined qualifier.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable, please assess qualifier priority in the following order: U, E, J, B, D, C, P, N. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 64)

List of Inorganic Method Qualifiers

Table 2

Qualifier	Column (1)	Description
Concentration qualifiers		
B	C	Entered if the reported value was less than the CRDL, but greater than the IDL.
U	C	Entered if the analyte was analyzed for, but not detected.
J	C	Entered if the reported value is estimated and below the MDL.
*	C	Duplicate precision exceeds RPD limit.
M	C	Replicate precision exceeds RPD limit.
"XYZ"	C	"Wildcard" or Laboratory defined qualifier.
Qualifier specific entries		
E	Q	Entered if the reported value is estimated because of the presence of interferences.
Method qualifiers		
A	M	Flame atomic absorption
AS	M	Semi-automated spectrophotometric
AV	M	Automated cold vapor atomic absorption
C	M	Manual spectrophotometric
F	M	Furnace atomic absorption
MS	M	Mass spectrometry (ICP-MS)
NR	M	Analyte is not required to be analyzed
P	M	Inductively coupled plasma (ICP)
" "	M	No data have been entered

(1) The term "Column" is used to indicate under which column heading in the reporting forms that the qualifier will be found under.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable to column C, please assess qualifier priority in the following order: U, J, B. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 65)



Volatile Organics Instruments

Volatile Organics: Jack

Instrument: Agilent 5975MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon
Autosampler: EST Centurion
Purge time: 11 min

Column Type: RTX-VMS
Column Length: 20 Meters
df: 1.00um
ID: 0.18mm
Desorb: 2 min

Volatile Organics: Quimby

Instrument: Agilent 5973MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon
Autosampler: EST Centurion
Purge time: 11 min

Column Type: RTX-VMS
Column Length: 20 Meters
df: 1.00um
ID: 0.18mm
Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar 3000
Autosampler: Archon
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min



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Volatile Organics: Gonzo

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 µm
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: VOA101

Instrument: Agilent 5975C inert XL MSD
Trap: EST K Trap (VOACARB 3000)
Concentrator: Encon Evolution
Autosampler: EST Centurion
Purge time: 11 min

Column Type: Restek RTX-VMS
Column Length: 30 Meters
df: 1.40 µm
ID: 0.25 mm
Desorb: 1 min

Volatile Organics: Charlie/Voa100/Voa104

Instrument: Agilent 5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Encon Evolution
Autosampler: EST Centurion
Purge time: 11 min

Column Type: Agilent DB-624
Column Length: 25 Meters
df: 1.12 µm
ID: 0.20 mm
Desorb: 2 min

Volatile Organics: M

Instrument: Agilent 6890

Concentrator: Tekmar 2016
Autosampler: Tekmar 3100

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

Volatile Organics: L/N

Instrument: Agilent 6890

Concentrator: Encon Evolution
Autosampler: EST Centurion

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

Volatile Organics: O/P

Instrument: Agilent 7890A

Concentrator: Encon Evolution
Autosampler: EST Centurion

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instrument: Agilent 6890 GC / 5975 MSD	Column Type: Restek RTX-1
	Column Length: 60 Meters
Concentrator: Entech 7100A	df: 1.00 um
Autosampler: Entech 7016CA	ID: 0.52 mm
Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material	
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material	

Semivolatile Organics Instruments

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (Acid/Base/Neutral Extractables): Juliet/GCMS5/GCMS7

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Dakota/Mork

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Pesticides/PCB : Pest 11/Pest2/Pest7/Pest12

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek RTX-CLP (Channel A)	df: 0.32 um
Column: Restek RTX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Pesticides/PCB: Pest 10/ Pest9

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek STX-CLP (Channel A)	df: 0.32 um
Column: Restek STX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs
Column Type: Restek RTX-1701 (Channel A)
Column Type: Restek RTX-5 (Channel B)
Column Length: 30 Meters (Both)

Injection Volume: 1uL
df: 0.25 um
df: 0.25 um
ID: 0.32 mm (Both)

Petro9

Instrument: Agilent 6890 w/FID
Column: Restek RTX-5
Column Length: 30 Meters

Injection Volume: 1uL
df: 0.25 um
ID: 0.32 mm

EPH Petro10/ Petro11

Instrument: Agilent 6890N w/FID
Column: Restek RTX-5-MS
Column Length: 30 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.32 mm

Explosives

Instrument: Dionex ICS-3000, AS50 Autosampler and PDA-100 detectors.
Injection Volume: 100uL
Column: Phenomenex Synergi 4u Hydro-RP and Luna 5u Phenyl-Hexyl.

GC/MS Forensic Semivolatile Organic Instruments

Semivolatile Organics (ALK-PAH extractables): PAH1/PAH2/PAH3/PAH4

Instrument: Agilent 5973C MSD
Column Type: Phenomenex ZB-5
Column Length: 60 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Semivolatile Organics (ALK-PAH extractables): PAH8/PAH9/PAH10/PAH11/PAH12/PAH13/PAH14

Instrument: Agilent 5975C MSD
Column Type: Phenomenex ZB-5
Column Length: 60 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Semivolatile Organics (ALK-PAH extractables): PAH17/PAH18/PAH19

Instrument: Agilent 5975C MSD
Column Type: Phenomenex ZB-5
Column Length: 60 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

GC/FID Forensic Semivolatile Organic Instruments

Semivolatile Organics (SHC extractables):PAH1/PAH2/PAH3/PAH4/PAH8

Instrument: Agilent 6890N w/FID
Column: Restek RTX-5
Column Length: 60 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.25 mm

Semivolatile Organics (SHC extractables): FID6 (dual column)/ FID9 (dual column)/ FID17 (dual column)

Instrument: Agilent 6890N w/FID
Column: Restek RTX-5
Column Length: 60 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.25 mm

Semivolatile Organics (SHC extractables):FID7 (dual column)

Instrument: Agilent 7890N w/FID
Column: Restek RTX-5
Column Length: 60 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.25 mm



Sample Delivery Group Form

Laboratory Job number: L1630897

Project Manager: Ethan Leighton

Review Date: 10/05/2016

Project Number: CUE1601

Project Name: CUE1601

Received: 09/29/2016 11:30

Client Account: P. W. Grosser

Received by: RR

Samples Delivered by: COURIER

Call Tracker # 89154

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? No

-02 MW-6 rec'd labeled as MW-5 & -04 MW-4 rec'd labeled as MW-6

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? Yes

Aqueous: Do Vials Contain Head Space? No

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	4.3 - IR Gun	No	No

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2016, 10:05 pm

Login Number: L1630897

Account: PWGROSSER P. W. Grosser Project: CUE1601

Received: 29SEP16 Due Date: 06OCT16
Mat PR Collected Container

Sample # Client ID

L1630897-01 MW-3 1 S0 28SEP16 10:55 3-Vial-B
| ASP-B Package Due Date: 10/06/16

ASP-B, NYTCL-8260

L1630897-02 MW-5 1 S0 28SEP16 11:45 9-Vial-B
L1630897-02 MS L1630897-02 MSD Package Due Date: 10/06/16

MS/MSD, NYTCL-8260

L1630897-03 MW-6A 1 S0 28SEP16 12:25 3-Vial-B
| Package Due Date: 10/06/16

NYTCL-8260

L1630897-04 MW-4 1 S0 28SEP16 13:07 3-Vial-B
| Package Due Date: 10/06/16

NYTCL-8260

L1630897-05 DUPE 1 S0 28SEP16 00:00 3-Vial-B
| Package Due Date: 10/06/16

NYTCL-8260

L1630897-06 FIELD BLANK 1 S0 28SEP16 13:15 3-Vial-B
| Package Due Date: 10/06/16

NYTCL-8260

L1630897-07 TRIP BLANK 1 S0 28SEP16 00:00 2-Vial-B
| Package Due Date: 10/06/16

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 14 2016, 10:05 pm

Login Number: L1630897

Account: PWGROSSER P. W. GrosserProject: CUE1601

Received: 29SEP16 Due Date: 06OCT16
Mat PR Collected Container

Sample # Client ID

NYTCL-8260

Page 2

Logged By: Ethan Leighton



Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Form 2 Surrogate Recovery VOLATILES

Client: P. W. Grosser
Project Name: CUE1601

Lab Number: L1630897
Project Number: CUE1601
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 TOL	SMC2 BFB	SMC3 DCA	SMC4 DBFM	TOT OUT
DUPE (L1630897-05D)	99	119	96	100	0
FIELD BLANK (L1630897-06)	101	114	95	103	0
WG939161-4LCSD	102	104	87	91	0
WG939161-11LCSD	103	104	87	91	0
WG939161-3LCS	102	103	88	92	0
WG939161-10LCS	102	104	85	92	0
WG939161-5BLANK	102	117	94	98	0
WG939161-12BLANK	99	117	90	96	0
MW-3 (L1630897-01D)	101	117	90	96	0
MW-4 (L1630897-04)	99	109	91	99	0
MW-5 (L1630897-02)	104	118	94	102	0
MW-6A (L1630897-03)	103	116	94	101	0
MW-6A (L1630897-03D)	101	117	93	98	0
MW-5MS	101	100	90	95	0
MW-5MSD	101	102	87	94	0
TRIP BLANK (L1630897-07)	101	113	96	102	0

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

QC LIMITS
(70-130)
(70-130)
(70-130)
(70-130)

* Values outside of QC limits

FORM II NYTCL-8260



Laboratory Control Sample Form 3

Client : P. W. Grosser
Project Name : CUE1601
Matrix : WATER
LCS Sample ID : WG939161-3
LCSD Sample ID : WG939161-4

Lab Number : L1630897
Project Number : CUE1601
Analysis Date : 10/05/16 09:56
Analysis Date : 10/05/16 10:24
File ID : V08161005A02
File ID : V08161005A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	10.	100	10	10.	100	0	70-130	20
1,1-Dichloroethane	10	10.	100	10	10.	100	0	70-130	20
Chloroform	10	10.	100	10	11.	110	10	70-130	20
Carbon tetrachloride	10	10.	100	10	10.	100	0	63-132	20
1,2-Dichloropropane	10	9.4	94	10	9.5	95	1	70-130	20
Dibromochloromethane	10	9.8	98	10	9.8	98	0	63-130	20
1,1,2-Trichloroethane	10	10.	100	10	10.	100	0	70-130	20
Tetrachloroethene	10	10.	100	10	10.	100	0	70-130	20
Chlorobenzene	10	9.9	99	10	10.	100	1	75-130	20
Trichlorofluoromethane	10	11.	110	10	10.	100	10	62-150	20
1,2-Dichloroethane	10	9.2	92	10	9.7	97	5	70-130	20
1,1,1-Trichloroethane	10	11.	110	10	11.	110	0	67-130	20
Bromodichloromethane	10	9.8	98	10	10.	100	2	67-130	20
trans-1,3-Dichloropropene	10	9.4	94	10	9.6	96	2	70-130	20
cis-1,3-Dichloropropene	10	8.5	85	10	9.0	90	6	70-130	20
1,1-Dichloropropene	10	10.	100	10	10.	100	0	70-130	20
Bromoform	10	10.	100	10	10.	100	0	54-136	20
1,1,2,2-Tetrachloroethane	10	10.	100	10	11.	110	10	67-130	20
Benzene	10	10.	100	10	10.	100	0	70-130	20
Toluene	10	11.	110	10	11.	110	0	70-130	20
Ethylbenzene	10	11.	110	10	11.	110	0	70-130	20
Chloromethane	10	10.	100	10	10.	100	0	64-130	20
Bromomethane	10	6.4	64	10	7.4	74	14	39-139	20
Vinyl chloride	10	9.6	96	10	9.4	94	2	55-140	20
Chloroethane	10	10.	100	10	9.9	99	1	55-138	20
1,1-Dichloroethene	10	10.	100	10	10.	100	0	61-145	20
trans-1,2-Dichloroethene	10	11.	110	10	11.	110	0	70-130	20
Trichloroethene	10	11.	110	10	11.	110	0	70-130	20



Laboratory Control Sample Form 3

Client : P. W. Grosser
Project Name : CUE1601
Matrix : WATER
LCS Sample ID : WG939161-3
LCSD Sample ID : WG939161-4

Lab Number : L1630897
Project Number : CUE1601
Analysis Date : 10/05/16 09:56
Analysis Date : 10/05/16 10:24
File ID : V08161005A02
File ID : V08161005A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
1,2-Dichlorobenzene	10	9.7	97	10	9.8	98	1	70-130	20
1,3-Dichlorobenzene	10	10.	100	10	10.	100	0	70-130	20
1,4-Dichlorobenzene	10	9.5	95	10	9.8	98	3	70-130	20
Methyl tert butyl ether	10	9.5	95	10	9.8	98	3	63-130	20
p/m-Xylene	20	21.	105	20	21.	105	0	70-130	20
o-Xylene	20	21.	105	20	21.	105	0	70-130	20
cis-1,2-Dichloroethene	10	10.	100	10	10.	100	0	70-130	20
Dibromomethane	10	9.6	96	10	9.8	98	2	70-130	20
1,2,3-Trichloropropane	10	10.	100	10	11.	110	10	64-130	20
Acrylonitrile	10	9.1	91	10	9.6	96	5	70-130	20
Isopropyl Ether	10	9.8	98	10	10.	100	2	70-130	20
tert-Butyl Alcohol	50	51.	102	50	56.	112	9	70-130	20
Styrene	20	21.	105	20	21.	105	0	70-130	20
Dichlorodifluoromethane	10	10.	100	10	10.	100	0	36-147	20
Acetone	10	10.	100	10	9.9	99	1	58-148	20
Carbon disulfide	10	10.	100	10	9.8	98	2	51-130	20
2-Butanone	10	10.	100	10	10.	100	0	63-138	20
Vinyl acetate	10	9.8	98	10	10.	100	2	70-130	20
4-Methyl-2-pentanone	10	7.4	74	10	7.8	78	5	59-130	20
2-Hexanone	10	7.2	72	10	7.3	73	1	57-130	20
Acrolein	10	7.2	72	10	7.8	78	8	40-160	20
Bromochloromethane	10	9.4	94	10	9.9	99	5	70-130	20
2,2-Dichloropropane	10	11.	110	10	11.	110	0	63-133	20
1,2-Dibromoethane	10	9.5	95	10	9.9	99	4	70-130	20
1,3-Dichloropropane	10	9.6	96	10	9.5	95	1	70-130	20
1,1,1,2-Tetrachloroethane	10	9.6	96	10	9.7	97	1	64-130	20
Bromobenzene	10	10.	100	10	10.	100	0	70-130	20
n-Butylbenzene	10	9.5	95	10	9.3	93	2	53-136	20



Laboratory Control Sample Form 3

Client : P. W. Grosser
Project Name : CUE1601
Matrix : WATER
LCS Sample ID : WG939161-3
LCSD Sample ID : WG939161-4

Lab Number : L1630897
Project Number : CUE1601
Analysis Date : 10/05/16 09:56
Analysis Date : 10/05/16 10:24
File ID : V08161005A02
File ID : V08161005A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
sec-Butylbenzene	10	11.	110	10	10.	100	10	70-130	20
tert-Butylbenzene	10	9.3	93	10	9.3	93	0	70-130	20
o-Chlorotoluene	10	12.	120	10	12.	120	0	70-130	20
p-Chlorotoluene	10	11.	110	10	12.	120	9	70-130	20
1,2-Dibromo-3-chloropropane	10	7.9	79	10	9.3	93	16	41-144	20
Hexachlorobutadiene	10	11.	110	10	11.	110	0	63-130	20
Isopropylbenzene	10	11.	110	10	11.	110	0	70-130	20
p-Isopropyltoluene	10	10.	100	10	10.	100	0	70-130	20
Naphthalene	10	5.7	57 Q	10	6.0	60 Q	5	70-130	20
n-Propylbenzene	10	11.	110	10	11.	110	0	69-130	20
1,2,3-Trichlorobenzene	10	7.1	71	10	6.9	69 Q	3	70-130	20
1,2,4-Trichlorobenzene	10	6.6	66 Q	10	6.8	68 Q	3	70-130	20
1,3,5-Trimethylbenzene	10	11.	110	10	11.	110	0	64-130	20
1,2,4-Trimethylbenzene	10	11.	110	10	11.	110	0	70-130	20
Methyl Acetate	10	10.	100	10	10.	100	0	70-130	20
Ethyl Acetate	10	8.9	89	10	9.2	92	3	70-130	20
Cyclohexane	10	9.9	99	10	9.9	99	0	70-130	20
Ethyl-Tert-Butyl-Ether	10	9.1	91	10	9.4	94	3	70-130	20
Tertiary-Amyl Methyl Ether	10	8.8	88	10	9.2	92	4	66-130	20
1,4-Dioxane	500	480	96	500	500	100	4	56-162	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	9.5	95	10	9.7	97	2	70-130	20
p-Diethylbenzene	10	9.0	90	10	9.0	90	0	70-130	20
p-Ethyltoluene	10	11.	110	10	11.	110	0	70-130	20
1,2,4,5-Tetramethylbenzene	10	8.8	88	10	9.1	91	3	70-130	20
Tetrahydrofuran	10	8.9	89	10	9.4	94	5	58-130	20
Ethyl ether	10	8.5	85	10	8.8	88	3	59-134	20
trans-1,4-Dichloro-2-butene	10	10.	100	10	10.	100	0	70-130	20
Iodomethane	10	8.4	84	10	7.9	79	6	70-130	20



Laboratory Control Sample Form 3

Client	: P. W. Grosser	Lab Number	: L1630897
Project Name	: CUE1601	Project Number	: CUE1601
Matrix	: WATER		
LCS Sample ID	: WG939161-3	Analysis Date	: 10/05/16 09:56
LCSD Sample ID	: WG939161-4	Analysis Date	: 10/05/16 10:24
		File ID	: V08161005A02
		File ID	: V08161005A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methyl cyclohexane	10	9.1	91	10	9.4	94	3	70-130	20



Laboratory Control Sample Form 3

Client	: P. W. Grosser	Lab Number	: L1630897
Project Name	: CUE1601	Project Number	: CUE1601
Matrix	: WATER		
LCS Sample ID	: WG939161-10	Analysis Date	: 10/06/16 09:34
LCSD Sample ID	: WG939161-11	Analysis Date	: 10/06/16 10:02
		File ID	: V08161006A02
		File ID	: V08161006A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	9.9	99	10	9.5	95	4	70-130	20
1,1-Dichloroethane	10	9.8	98	10	9.8	98	0	70-130	20
Chloroform	10	10.	100	10	10.	100	0	70-130	20
Carbon tetrachloride	10	9.8	98	10	9.8	98	0	63-132	20
1,2-Dichloropropane	10	9.3	93	10	9.3	93	0	70-130	20
Dibromochloromethane	10	9.7	97	10	10.	100	3	63-130	20
1,1,2-Trichloroethane	10	10.	100	10	10.	100	0	70-130	20
Tetrachloroethene	10	9.8	98	10	9.5	95	3	70-130	20
Chlorobenzene	10	9.8	98	10	9.8	98	0	75-130	20
Trichlorofluoromethane	10	10.	100	10	9.9	99	1	62-150	20
1,2-Dichloroethane	10	9.3	93	10	9.6	96	3	70-130	20
1,1,1-Trichloroethane	10	10.	100	10	10.	100	0	67-130	20
Bromodichloromethane	10	9.8	98	10	9.9	99	1	67-130	20
trans-1,3-Dichloropropene	10	9.2	92	10	9.7	97	5	70-130	20
cis-1,3-Dichloropropene	10	8.5	85	10	8.8	88	3	70-130	20
1,1-Dichloropropene	10	9.6	96	10	9.5	95	1	70-130	20
Bromoform	10	10.	100	10	10.	100	0	54-136	20
1,1,2,2-Tetrachloroethane	10	10.	100	10	11.	110	10	67-130	20
Benzene	10	9.8	98	10	9.9	99	1	70-130	20
Toluene	10	10.	100	10	10.	100	0	70-130	20
Ethylbenzene	10	10.	100	10	10.	100	0	70-130	20
Chloromethane	10	9.6	96	10	9.8	98	2	64-130	20
Bromomethane	10	8.4	84	10	8.7	87	4	39-139	20
Vinyl chloride	10	8.7	87	10	8.6	86	1	55-140	20
Chloroethane	10	9.6	96	10	9.3	93	3	55-138	20
1,1-Dichloroethene	10	9.5	95	10	9.6	96	1	61-145	20
trans-1,2-Dichloroethene	10	10.	100	10	10.	100	0	70-130	20
Trichloroethene	10	10.	100	10	9.9	99	1	70-130	20



Laboratory Control Sample Form 3

Client	: P. W. Grosser	Lab Number	: L1630897
Project Name	: CUE1601	Project Number	: CUE1601
Matrix	: WATER		
LCS Sample ID	: WG939161-10	Analysis Date	: 10/06/16 09:34
LCSD Sample ID	: WG939161-11	Analysis Date	: 10/06/16 10:02
		File ID	: V08161006A02
		File ID	: V08161006A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
1,2-Dichlorobenzene	10	9.6	96	10	9.7	97	1	70-130	20
1,3-Dichlorobenzene	10	9.8	98	10	9.8	98	0	70-130	20
1,4-Dichlorobenzene	10	9.5	95	10	9.5	95	0	70-130	20
Methyl tert butyl ether	10	9.2	92	10	9.9	99	7	63-130	20
p/m-Xylene	20	20.	100	20	20.	100	0	70-130	20
o-Xylene	20	20.	100	20	20.	100	0	70-130	20
cis-1,2-Dichloroethene	10	9.9	99	10	10.	100	1	70-130	20
Dibromomethane	10	9.3	93	10	9.8	98	5	70-130	20
1,2,3-Trichloropropane	10	11.	110	10	11.	110	0	64-130	20
Acrylonitrile	10	8.8	88	10	9.8	98	11	70-130	20
Isopropyl Ether	10	9.7	97	10	10.	100	3	70-130	20
tert-Butyl Alcohol	50	44.	88	50	46.	92	4	70-130	20
Styrene	20	20.	100	20	21.	105	5	70-130	20
Dichlorodifluoromethane	10	9.8	98	10	9.5	95	3	36-147	20
Acetone	10	9.8	98	10	10.	100	2	58-148	20
Carbon disulfide	10	9.4	94	10	9.3	93	1	51-130	20
2-Butanone	10	9.5	95	10	10.	100	5	63-138	20
Vinyl acetate	10	9.8	98	10	10.	100	2	70-130	20
4-Methyl-2-pentanone	10	7.4	74	10	7.3	73	1	59-130	20
2-Hexanone	10	6.9	69	10	7.5	75	8	57-130	20
Acrolein	10	7.4	74	10	7.4	74	0	40-160	20
Bromochloromethane	10	9.4	94	10	9.6	96	2	70-130	20
2,2-Dichloropropane	10	10.	100	10	10.	100	0	63-133	20
1,2-Dibromoethane	10	9.6	96	10	10.	100	4	70-130	20
1,3-Dichloropropane	10	9.6	96	10	9.9	99	3	70-130	20
1,1,1,2-Tetrachloroethane	10	9.7	97	10	9.7	97	0	64-130	20
Bromobenzene	10	10.	100	10	10.	100	0	70-130	20
n-Butylbenzene	10	8.5	85	10	8.2	82	4	53-136	20



Laboratory Control Sample Form 3

Client : P. W. Grosser	Lab Number : L1630897
Project Name : CUE1601	Project Number : CUE1601
Matrix : WATER	
LCS Sample ID : WG939161-10	Analysis Date : 10/06/16 09:34
LCSD Sample ID : WG939161-11	Analysis Date : 10/06/16 10:02
	File ID : V08161006A02
	File ID : V08161006A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
sec-Butylbenzene	10	9.6	96	10	9.2	92	4	70-130	20
tert-Butylbenzene	10	8.6	86	10	8.2	82	5	70-130	20
o-Chlorotoluene	10	11.	110	10	11.	110	0	70-130	20
p-Chlorotoluene	10	11.	110	10	11.	110	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.4	84	10	8.8	88	5	41-144	20
Hexachlorobutadiene	10	10.	100	10	9.7	97	3	63-130	20
Isopropylbenzene	10	10.	100	10	10.	100	0	70-130	20
p-Isopropyltoluene	10	9.4	94	10	9.1	91	3	70-130	20
Naphthalene	10	5.8	58 Q	10	5.9	59 Q	2	70-130	20
n-Propylbenzene	10	11.	110	10	10.	100	10	69-130	20
1,2,3-Trichlorobenzene	10	6.8	68 Q	10	6.8	68 Q	0	70-130	20
1,2,4-Trichlorobenzene	10	6.5	65 Q	10	6.6	66 Q	2	70-130	20
1,3,5-Trimethylbenzene	10	10.	100	10	10.	100	0	64-130	20
1,2,4-Trimethylbenzene	10	10.	100	10	10.	100	0	70-130	20
Methyl Acetate	10	9.8	98	10	10.	100	2	70-130	20
Ethyl Acetate	10	8.7	87	10	9.6	96	10	70-130	20
Cyclohexane	10	9.2	92	10	9.1	91	1	70-130	20
Ethyl-Tert-Butyl-Ether	10	9.1	91	10	9.6	96	5	70-130	20
Tertiary-Amyl Methyl Ether	10	8.8	88	10	9.2	92	4	66-130	20
1,4-Dioxane	500	450	90	500	460	92	2	56-162	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	9.0	90	10	9.0	90	0	70-130	20
p-Diethylbenzene	10	8.4	84	10	8.1	81	4	70-130	20
p-Ethyltoluene	10	11.	110	10	10.	100	10	70-130	20
1,2,4,5-Tetramethylbenzene	10	8.6	86	10	8.4	84	2	70-130	20
Tetrahydrofuran	10	8.5	85	10	9.1	91	7	58-130	20
Ethyl ether	10	8.1	81	10	8.7	87	7	59-134	20
trans-1,4-Dichloro-2-butene	10	10.	100	10	10.	100	0	70-130	20
Iodomethane	10	6.6	66 Q	10	6.6	66 Q	0	70-130	20



Laboratory Control Sample Form 3

Client	: P. W. Grosser	Lab Number	: L1630897
Project Name	: CUE1601	Project Number	: CUE1601
Matrix	: WATER		
LCS Sample ID	: WG939161-10	Analysis Date	: 10/06/16 09:34
LCSD Sample ID	: WG939161-11	Analysis Date	: 10/06/16 10:02
		File ID	: V08161006A02
		File ID	: V08161006A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methyl cyclohexane	10	8.5	85	10	8.3	83	2	70-130	20



Matrix Spike Form 3

Client : P. W. Grosser
Project Name : CUE1601
Client Sample ID : MW-5
Lab Sample ID : L1630897-02
Matrix Spike : WG939161-6
Matrix Spike Dup : WG939161-7

Lab Number : L1630897
Project Number : CUE1601
Matrix : WATER
Analysis Date : 10/05/16 12:43
MS Analysis Date : 10/05/16 15:31
MSD Analysis Date : 10/05/16 15:59

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Methylene chloride	ND	10	11.	110	10	13.	130	17	70-130	20
1,1-Dichloroethane	ND	10	11.	110	10	13.	130	17	70-130	20
Chloroform	ND	10	12.	120	10	13.	130	8	70-130	20
Carbon tetrachloride	ND	10	12.	120	10	13.	130	8	63-132	20
1,2-Dichloropropane	ND	10	10.	100	10	12.	120	18	70-130	20
Dibromochloromethane	ND	10	11.	110	10	12.	120	9	63-130	20
1,1,2-Trichloroethane	ND	10	11.	110	10	12.	120	9	70-130	20
Tetrachloroethene	ND	10	11.	110	10	12.	120	9	70-130	20
Chlorobenzene	ND	10	10.	100	10	12.	120	18	75-130	20
Trichlorofluoromethane	ND	10	12.	120	10	14.	140	15	62-150	20
1,2-Dichloroethane	ND	10	10.	100	10	12.	120	18	70-130	20
1,1,1-Trichloroethane	ND	10	12.	120	10	14.	140 Q	15	67-130	20
Bromodichloromethane	ND	10	11.	110	10	12.	120	9	67-130	20
trans-1,3-Dichloropropene	ND	10	9.3	93	10	11.	110	17	70-130	20
cis-1,3-Dichloropropene	ND	10	8.5	85	10	10.	100	16	70-130	20
1,1-Dichloropropene	ND	10	11.	110	10	13.	130	17	70-130	20
Bromoform	ND	10	11.	110	10	12.	120	9	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	11.	110	10	13.	130	17	67-130	20
Benzene	ND	10	11.	110	10	13.	130	17	70-130	20
Toluene	ND	10	11.	110	10	13.	130	17	70-130	20
Ethylbenzene	ND	10	11.	110	10	13.	130	17	70-130	20
Chloromethane	ND	10	14.	140 Q	10	17.	170 Q	19	64-130	20
Bromomethane	ND	10	2.4J	24 Q	10	3.2	32 Q	29 Q	39-139	20
Vinyl chloride	0.08J	10	12.	120	10	13.	130	8	55-140	20



Matrix Spike Form 3

Client : P. W. Grosser
Project Name : CUE1601
Client Sample ID : MW-5
Lab Sample ID : L1630897-02
Matrix Spike : WG939161-6
Matrix Spike Dup : WG939161-7

Lab Number : L1630897
Project Number : CUE1601
Matrix : WATER
Analysis Date : 10/05/16 12:43
MS Analysis Date : 10/05/16 15:31
MSD Analysis Date : 10/05/16 15:59

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Chloroethane	ND	10	13.	130	10	14.	140 Q	7	55-138	20
1,1-Dichloroethene	ND	10	12.	120	10	13.	130	8	61-145	20
trans-1,2-Dichloroethene	ND	10	12.	120	10	14.	140 Q	15	70-130	20
Trichloroethene	ND	10	12.	120	10	13.	130	8	70-130	20
1,2-Dichlorobenzene	ND	10	9.6	96	10	12.	120	22 Q	70-130	20
1,3-Dichlorobenzene	ND	10	9.8	98	10	12.	120	20	70-130	20
1,4-Dichlorobenzene	ND	10	9.4	94	10	11.	110	16	70-130	20
Methyl tert butyl ether	ND	10	10.	100	10	12.	120	18	63-130	20
p/m-Xylene	ND	20	22.	110	20	26.	130	17	70-130	20
o-Xylene	ND	20	22.	110	20	25.	125	13	70-130	20
cis-1,2-Dichloroethene	ND	10	11.	110	10	13.	130	17	70-130	20
Dibromomethane	ND	10	10.	100	10	12.	120	18	70-130	20
1,2,3-Trichloropropane	ND	10	11.	110	10	12.	120	9	64-130	20
Acrylonitrile	ND	10	9.8	98	10	11.	110	12	70-130	20
Styrene	ND	20	22.	110	20	26.	130	17	70-130	20
Dichlorodifluoromethane	ND	10	12.	120	10	13.	130	8	36-147	20
Acetone	ND	10	14.	140	10	16.	160 Q	13	58-148	20
Carbon disulfide	ND	10	12.	120	10	14.	140 Q	15	51-130	20
2-Butanone	ND	10	10.	100	10	12.	120	18	63-138	20
Vinyl acetate	ND	10	11.	110	10	13.	130	17	70-130	20
4-Methyl-2-pentanone	ND	10	7.4	74	10	8.7	87	16	59-130	20
2-Hexanone	ND	10	7.2	72	10	8.4	84	15	57-130	20
Bromochloromethane	ND	10	10.	100	10	12.	120	18	70-130	20
2,2-Dichloropropane	ND	10	9.9	99	10	11.	110	11	63-133	20



Matrix Spike Form 3

Client : P. W. Grosser
Project Name : CUE1601
Client Sample ID : MW-5
Lab Sample ID : L1630897-02
Matrix Spike : WG939161-6
Matrix Spike Dup : WG939161-7

Lab Number : L1630897
Project Number : CUE1601
Matrix : WATER
Analysis Date : 10/05/16 12:43
MS Analysis Date : 10/05/16 15:31
MSD Analysis Date : 10/05/16 15:59

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
1,2-Dibromoethane	ND	10	10.	100	10	12.	120	18	70-130	20
1,3-Dichloropropane	ND	10	10.	100	10	12.	120	18	70-130	20
1,1,1,2-Tetrachloroethane	ND	10	11.	110	10	12.	120	9	64-130	20
Bromobenzene	ND	10	10.	100	10	12.	120	18	70-130	20
n-Butylbenzene	ND	10	9.9	99	10	12.	120	19	53-136	20
sec-Butylbenzene	ND	10	11.	110	10	13.	130	17	70-130	20
tert-Butylbenzene	ND	10	9.3	93	10	11.	110	17	70-130	20
o-Chlorotoluene	ND	10	11.	110	10	14.	140 Q	24 Q	70-130	20
p-Chlorotoluene	ND	10	11.	110	10	14.	140 Q	24 Q	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	9.0	90	10	11.	110	20	41-144	20
Hexachlorobutadiene	ND	10	11.	110	10	14.	140 Q	24 Q	63-130	20
Isopropylbenzene	ND	10	11.	110	10	13.	130	17	70-130	20
p-Isopropyltoluene	ND	10	11.	110	10	13.	130	17	70-130	20
Naphthalene	ND	10	4.9	49 Q	10	7.2	72	38 Q	70-130	20
n-Propylbenzene	ND	10	11.	110	10	13.	130	17	69-130	20
1,2,3-Trichlorobenzene	ND	10	6.0	60 Q	10	8.2	82	31 Q	70-130	20
1,2,4-Trichlorobenzene	ND	10	6.1	61 Q	10	8.1	81	28 Q	70-130	20
1,3,5-Trimethylbenzene	ND	10	11.	110	10	13.	130	17	64-130	20
1,2,4-Trimethylbenzene	ND	10	11.	110	10	13.	130	17	70-130	20
1,4-Dioxane	740	500	470	0 Q	500	520	0 Q	10	56-162	20
p-Diethylbenzene	ND	10	9.2	92	10	11.	110	18	70-130	20
p-Ethyltoluene	ND	10	11.	110	10	14.	140 Q	24 Q	70-130	20
1,2,4,5-Tetramethylbenzene	ND	10	8.3	83	10	11.	110	28 Q	70-130	20
Ethyl ether	0.70J	10	9.6	96	10	11.	110	14	59-134	20



Matrix Spike Form 3

Client : P. W. Grosser
 Project Name : CUE1601
 Client Sample ID : MW-5
 Lab Sample ID : L1630897-02
 Matrix Spike : WG939161-6
 Matrix Spike Dup : WG939161-7

Lab Number : L1630897
 Project Number : CUE1601
 Matrix : WATER
 Analysis Date : 10/05/16 12:43
 MS Analysis Date : 10/05/16 15:31
 MSD Analysis Date : 10/05/16 15:59

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
trans-1,4-Dichloro-2-butene	ND	10	9.5	95	10	12.	120	23 Q	70-130	20



Method Blank Summary Form 4

Client : P. W. Grosser
Project Name : CUE1601
Lab Sample ID : WG939161-5
Instrument ID : VOA108
Matrix : WATER

Lab Number : L1630897
Project Number : CUE1601
Lab File ID : V08161005A05
Analysis Date : 10/05/16 11:20

Client Sample No.	Lab Sample ID	Analysis Date
WG939161-3LCS	WG939161-3	10/05/16 09:56
WG939161-4LCSD	WG939161-4	10/05/16 10:24
MW-5	L1630897-02	10/05/16 12:43
MW-6A	L1630897-03	10/05/16 13:11
MW-4	L1630897-04	10/05/16 13:39
FIELD BLANK	L1630897-06	10/05/16 14:35
TRIP BLANK	L1630897-07	10/05/16 15:03
MW-5MS	WG939161-6	10/05/16 15:31
MW-5MSD	WG939161-7	10/05/16 15:59
WG939161-10LCS	WG939161-10	10/06/16 09:34
WG939161-11LCSD	WG939161-11	10/06/16 10:02



Method Blank Summary Form 4

Client : P. W. Grosser
Project Name : CUE1601
Lab Sample ID : WG939161-12
Instrument ID : VOA108
Matrix : WATER

Lab Number : L1630897
Project Number : CUE1601
Lab File ID : V08161006A05
Analysis Date : 10/06/16 10:57

Client Sample No.	Lab Sample ID	Analysis Date
WG939161-10LCS	WG939161-10	10/06/16 09:34
WG939161-11LCSD	WG939161-11	10/06/16 10:02
MW-3	L1630897-01D	10/06/16 11:43
MW-6A	L1630897-03D	10/06/16 12:11
DUPE	L1630897-05D	10/06/16 12:39



Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : P. W. Grosser
 Project Name : CUE1601
 Instrument ID : VOA108
 Tune Standard : WG921210-1

Lab Number : L1630897
 Project Number : CUE1601
 Analysis Date : 08/08/16 14:31
 Tune File ID : V08160808BBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	25.8
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.5 (.6)1
174	Greater than 50.0 of mass 95	75.4
175	5.0 - 9.0% of mass 174	5.7 (7.6)1
176	95.0 - 101% of mass 174	72.5 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (6.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD11	R890564-1	V08160808B03	08/08/16 15:43
STD1	R890564-2	V08160808B05	08/08/16 16:39
STD2	R890564-3	V08160808B07	08/08/16 17:35
STD3	R890564-4	V08160808B08	08/08/16 18:03
STD4	R890564-6	V08160808B09	08/08/16 18:31
STD6	R890564-5	V08160808B10	08/08/16 19:00
STD8	R890564-7	V08160808B11	08/08/16 19:28
STD10	R890564-8	V08160808B12	08/08/16 19:56
ICV Quant Report	R890564-9	V08160808B19	08/08/16 23:13



Instrument Performance Check Bromofluorobenzene (BFB) Form 5

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Tune Standard : WG939161-1

Lab Number : L1630897
Project Number : CUE1601
Analysis Date : 10/05/16 09:10
Tune File ID : V08161005ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	25
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.5)1
174	Greater than 50.0 of mass 95	70
175	5.0 - 9.0% of mass 174	5 (7.1)1
176	95.0 - 101% of mass 174	67.5 (96.4)1
177	5.0 - 9.0% of mass 176	4.2 (6.2)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG939161-2CCAL	WG939161-2	V08161005A02	10/05/16 09:56
WG939161-3LCS	WG939161-3	V08161005A02	10/05/16 09:56
WG939161-4LCSD	WG939161-4	V08161005A03	10/05/16 10:24
WG939161-5BLANK	WG939161-5	V08161005A05	10/05/16 11:20
MW-5	L1630897-02	V08161005A08	10/05/16 12:43
MW-6A	L1630897-03	V08161005A09	10/05/16 13:11
MW-4	L1630897-04	V08161005A10	10/05/16 13:39
FIELD BLANK	L1630897-06	V08161005A12	10/05/16 14:35
TRIP BLANK	L1630897-07	V08161005A13	10/05/16 15:03
WG939161-6MS	WG939161-6	V08161005A14	10/05/16 15:31
WG939161-7MSD	WG939161-7	V08161005A15	10/05/16 15:59

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : P. W. Grosser	Lab Number : L1630897
Project Name : CUE1601	Project Number : CUE1601
Instrument ID : VOA108	Analysis Date : 10/06/16 08:47
Tune Standard : WG939161-8	Tune File ID : V08161006ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	26
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (.3)1
174	Greater than 50.0 of mass 95	72.5
175	5.0 - 9.0% of mass 174	4.6 (6.3)1
176	95.0 - 101% of mass 174	69.6 (96)1
177	5.0 - 9.0% of mass 176	4.2 (6.1)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG939161-10LCS	WG939161-10	V08161006A02	10/06/16 09:34
WG939161-9CCAL	WG939161-9	V08161006A02	10/06/16 09:34
WG939161-11LCSD	WG939161-11	V08161006A03	10/06/16 10:02
WG939161-12BLANK	WG939161-12	V08161006A05	10/06/16 10:57
MW-3	L1630897-01D	V08161006A06	10/06/16 11:43
MW-6A	L1630897-03D	V08161006A07	10/06/16 12:11
DUPE	L1630897-05D	V08161006A08	10/06/16 12:39

Internal Standard Area and RT Summary Form 8

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Sample No : WG939161-2

Lab Number : L1630897
Project Number : CUE1601
Analysis Date : 10/05/16 09:56
Lab File ID : V08161005A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG939161-2	258468	5.92	169443	9.42	72223	12.15
Upper Limit	516936	6.42	338886	9.92	144446	12.65
Lower Limit	129234	5.42	84722	8.92	36112	11.65
Sample ID						
WG939161-4 LCSD	257249	5.92	171338	9.43	71416	12.15
WG939161-5 BLANK	227641	5.92	148891	9.43	46169	12.15
MW-5	222912	5.92	148422	9.43	45741	12.15
MW-6A	219477	5.92	146128	9.43	45171	12.15
MW-4	215913	5.92	143970	9.43	48982	12.15
FIELD BLANK	213391	5.92	144005	9.43	44227	12.15
TRIP BLANK	217562	5.92	146165	9.43	44663	12.15
MW-5 MS	234297	5.92	157571	9.43	69801	12.15
MW-5 MSD	247586	5.92	165035	9.43	71164	12.15
WG939161-8 BFB	-	-	-	-	-	-

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

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

* Values outside of QC limits



Internal Standard Area and RT Summary Form 8

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Sample No : WG939161-9

Lab Number : L1630897
Project Number : CUE1601
Analysis Date : 10/06/16 09:34
Lab File ID : V08161006A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG939161-9	246373	5.92	160139	9.42	67154	12.15
Upper Limit	492746	6.42	320278	9.92	134308	12.65
Lower Limit	123187	5.42	80070	8.92	33577	11.65
Sample ID						
WG939161-10 LCS	246373	5.92	160139	9.42	67154	12.15
WG939161-11 LCSD	243608	5.92	159466	9.43	68206	12.15
WG939161-12 BLANK	225376	5.92	150670	9.43	46280	12.15
MW-3	257240	5.92	171413	9.42	55066	12.15
MW-6A	221183	5.92	146321	9.43	44984	12.15
DUPE	219349	5.92	147672	9.43	46052	12.15

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

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

* Values outside of QC limits



Determination of Method Detection Limits

Alpha Analytical Inc.
Westborough, MA

Page 1 of 5	
Analyst:	PS
Date:	8/26/2013
Instrument ID:	VOA108
Column ID:	RTX-VMS
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA 8260C

2013

GC/MS Volatile Organics

Liquid

Initial Weight/Volume: N/A

Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013						
No.	Analytes	Target conc. (ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Mean (ug/l)	Mean Accuracy	Standard Deviation	Calc. MDL (ug/l)	Current RL (ug/l)	Comment
1	dichlorodifluoromethane	0.25	0.195	0.196	0.201	0.203	0.200	0.205	0.169	0.165	0.192	77%	0.016	0.0470	5.00	
2	chloromethane	0.25	0.227	0.236	0.278	0.287	0.225	0.228	0.216	0.203	0.238	95%	0.030	0.0885	2.50	
3	vinyl chloride	0.25	0.189	0.190	0.225	0.233	0.199	0.191	0.168	0.160	0.194	78%	0.025	0.0751	1.00	
4	bromomethane	0.25	0.361	0.340	0.400	0.409	0.332	0.321	0.286	0.293	0.343	137%	0.045	0.135	1.00	
5	chloroethane	0.25	0.248	0.255	0.330	0.330	0.258	0.260	0.228	0.228	0.267	107%	0.041	0.122	1.00	
6	trichlorofluoromethane	0.25	0.193	0.195	0.206	0.203	0.195	0.189	0.159	0.162	0.188	75%	0.018	0.0530	2.50	
7	ethyl ether	0.25	0.251	0.242	0.250	0.255	0.229	0.248	0.250	0.217	0.243	97%	0.013	0.0393	2.50	
8	1,1-dichloroethene	0.25	0.220	0.217	0.259	0.249	0.200	0.214	0.185	0.181	0.216	86%	0.028	0.0833	0.50	
9	carbon disulfide	0.25	0.317	0.304	0.334	0.328	0.287	0.278	0.263	0.249	0.295	118%	0.031	0.0925	5.00	
10	freon-113	0.25	0.183	0.192	0.183	0.183	0.168	0.181	0.161	0.142	0.174	70%	0.016	0.0487	10.0	
11	iodomethane	0.25	0.346	0.309	0.318	0.304	0.247	0.246	0.224	0.228	0.278	111%	0.047	0.140	5.00	
12	methylene chloride	0.25	0.526	0.470	0.536	0.501	0.507	0.447	0.476	0.505	0.496	198%	0.030	0.0893	3.00	
13	trans-1,2-dichloroethene	0.25	0.247	0.225	0.294	0.306	0.223	0.237	0.201	0.188	0.240	96%	0.042	0.124	0.75	
14	Methyl Acetate	0.25	0.131	0.252	0.152	0.149	0.149	0.163	0.117	0.236	0.169	67%	0.049	0.146	10.0	
15	acrolein	0.25	0.317	0.261	0.337	0.246	0.230	0.128	0.343	0.149	0.251	101%	0.081	0.244	5.00	
16	Diisopropyl Ether	0.25	0.253	0.258	0.273	0.277	0.248	0.250	0.234	0.238	0.254	102%	0.015	0.0455	2.00	
17	1,1-dichloroethane	0.25	0.219	0.225	0.271	0.271	0.220	0.227	0.207	0.193	0.229	92%	0.028	0.0841	0.75	
18	halothane	0.25	0.236	0.256	0.294	0.305	0.241	0.231	0.203	0.209	0.247	99%	0.037	0.110	2.00	
19	acrylonitrile	0.25	0.248	0.250	0.221	0.244	0.242	0.260	0.247	0.251	0.245	98%	0.011	0.0337	5.00	
20	vinyl acetate	0.25	0.240	0.250	0.211	0.274	0.264	0.215	0.184	0.195	0.229	92%	0.033	0.0982	5.00	
21	cis-1,2-dichloroethene	0.25	0.219	0.216	0.258	0.273	0.233	0.202	0.199	0.207	0.226	90%	0.027	0.0809	0.50	
22	2,2-dichloropropane	0.25	0.205	0.190	0.231	0.234	0.178	0.191	0.157	0.160	0.193	77%	0.029	0.0870	2.50	
23	bromochloromethane	0.25	0.236	0.216	0.225	0.249	0.197	0.204	0.201	0.201	0.216	86%	0.019	0.0569	2.50	
24	Cyclohexane	0.25	0.212	0.211	0.206	0.219	0.190	0.195	0.175	0.172	0.198	79%	0.018	0.0525	10.0	
25	chloroform	0.25	0.249	0.231	0.269	0.276	0.242	0.239	0.219	0.210	0.242	97%	0.023	0.0681	0.75	
26	Ethyl Acetate	0.25	0.288	0.235	0.252	0.249	0.215	0.273	0.242	0.242	0.250	100%	0.023	0.0676	10.0	
27	carbontetrachloride	0.25	0.170	0.170	0.195	0.201	0.162	0.160	0.147	0.143	0.169	67%	0.021	0.0620	0.50	
28	1,1,1-trichloroethane	0.25	0.197	0.197	0.235	0.243	0.195	0.188	0.168	0.161	0.198	79%	0.029	0.0861	0.50	

Comments:

Determination of Method Detection Limits

Alpha Analytical Inc.
Westborough, MA

Page 2 of 5
Analyst: PS
Date: 8/26/2013
Instrument ID: VOA108
Column ID: RTX-VMS
Prep Method: N/A
Prep Chemist: N/A

Method: EPA 8260C

2013

GC/MS

Volatile Organics

Liquid

Initial Weight/Volume: N/A

Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013						
No.	Analytes	Target conc. (ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Mean (ug/l)	Mean Accuracy	Standard Deviation	Calc. MDL (ug/l)	Current RL (ug/l)	Comment
29	1,1-dichloropropene	0.25	0.185	0.189	0.225	0.228	0.181	0.190	0.160	0.150	0.189	75%	0.027	0.0822	2.50	
30	benzene	0.25	0.233	0.233	0.274	0.281	0.223	0.223	0.206	0.202	0.234	94%	0.029	0.0867	0.50	
31	methyl cyclohexane	0.25	0.223	0.212	0.200	0.211	0.193	0.202	0.162	0.162	0.196	78%	0.023	0.0678	10.0	
32	trichloroethene	0.25	0.228	0.229	0.284	0.294	0.219	0.224	0.189	0.203	0.234	94%	0.037	0.110	0.50	
33	di-bromomethane	0.25	0.234	0.225	0.248	0.225	0.239	0.224	0.226	0.220	0.230	92%	0.009	0.0283	5.00	
34	1,2-dichloropropane	0.25	0.231	0.239	0.249	0.254	0.231	0.227	0.218	0.209	0.232	93%	0.015	0.0449	1.75	
35	bromodichloromethane	0.25	0.220	0.208	0.223	0.232	0.209	0.215	0.197	0.183	0.211	84%	0.015	0.0464	0.50	
36	cis-1,3-dichloropropen	0.25	0.210	0.203	0.207	0.210	0.196	0.189	0.175	0.172	0.195	78%	0.015	0.0457	0.50	
37	toluene	0.25	0.321	0.292	0.354	0.335	0.297	0.244	0.219	0.212	0.284	114%	0.054	0.161	0.75	
38	4-methyl-2-pentanone	0.25	0.170	0.174	0.192	0.156	0.184	0.176	0.194	0.134	0.173	69%	0.020	0.0594	5.00	
39	tetrachloroethene	0.25	0.205	0.199	0.247	0.244	0.189	0.182	0.169	0.177	0.202	81%	0.029	0.0884	0.50	
40	trans-1,3-dichloroprop	0.25	0.204	0.204	0.202	0.199	0.185	0.184	0.180	0.165	0.190	76%	0.014	0.0424	0.50	
41	1,1,2-trichloroethane	0.25	0.252	0.231	0.245	0.242	0.231	0.237	0.219	0.226	0.235	94%	0.011	0.0322	0.75	
42	chlorodibromomethane	0.25	0.189	0.196	0.193	0.173	0.177	0.168	0.160	0.168	0.178	71%	0.013	0.0396	0.50	
43	1,2-dibromoethane	0.25	0.237	0.222	0.219	0.205	0.214	0.228	0.194	0.207	0.216	86%	0.014	0.0412	2.00	
44	chlorobenzene	0.25	0.234	0.239	0.267	0.269	0.223	0.232	0.209	0.206	0.235	94%	0.024	0.0705	0.50	
45	ethyl benzene	0.25	0.209	0.205	0.266	0.257	0.195	0.210	0.175	0.193	0.214	86%	0.032	0.0948	0.50	
46	1,1,1,2-tetrachloroethane	0.25	0.196	0.186	0.208	0.204	0.186	0.191	0.179	0.165	0.189	76%	0.014	0.0414	0.50	
47	p/m xylene	0.5	0.415	0.415	0.492	0.521	0.391	0.396	0.359	0.353	0.418	84%	0.060	0.179	1.00	
48	o xylene	0.5	0.396	0.401	0.484	0.488	0.384	0.375	0.346	0.334	0.401	80%	0.057	0.172	1.00	
49	styrene	0.5	0.383	0.379	0.412	0.423	0.365	0.352	0.322	0.317	0.369	74%	0.038	0.115	1.00	
50	bromoform	0.25	0.164	0.146	0.148	0.140	0.142	0.150	0.135	0.130	0.144	58%	0.010	0.0311	2.00	
51	isopropylbenzene	0.25	0.212	0.201	0.258	0.267	0.193	0.199	0.179	0.167	0.210	84%	0.036	0.107	0.50	
52	bromobenzene	0.25	0.251	0.219	0.240	0.251	0.226	0.223	0.213	0.206	0.229	91%	0.017	0.0509	2.50	
53	n-propylbenzene	0.25	0.215	0.207	0.269	0.277	0.201	0.204	0.188	0.180	0.218	87%	0.036	0.108	0.50	
54	1,4-dichloro-2-butane	0.25	0.233	0.233	0.231	0.237	0.227	0.233	0.236	0.210	0.230	92%	0.009	0.0259	5.00	
55	4-ethyltoluene	0.25	0.198	0.188	0.248	0.264	0.182	0.181	0.167	0.156	0.198	79%	0.038	0.115	2.00	

Comments:

Determination of Method Detection Limits

Alpha Analytical Inc.

Westborough, MA

Page 4 of 5

Analyst: PS

Date: 8/26/2013

Instrument ID: VOA108

Column ID: RTX-VMS

Prep Method: N/A

Prep Chemist: N/A

Method: EPA 8260C

2013

GC/MS

Volatile Organics

Liquid

Initial Weight/Volume: N/A

Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	T value used for calculating					
		Date Analyzed	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	MDL: 3.143					
No.	Analytes	Target conc. (ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Mean (ug/l)	Mean Accuracy	Standard Deviation	Calc. MDL (ug/l)	Current RL (ug/l)	Comment
77	1,4-Dioxane	50	77.1	56.2	45.4	47.6	47.4	43.9	47.3	52.1	104%	11.7	36.8	250.0	
78	ethyl-methacrylate	0.5	0.712	0.337	0.295	0.294	0.292	0.302	0.306	0.363	73%	0.15	0.487	5.00	
	Surrogates														
	dibromofluoromethane	10	10.0	10.0	10.0	9.89	10.02	9.90	9.87	10.0	100%				
	1,2-dichloroethane-d4	10	10.4	10.4	10.4	10.3	10.4	10.3	10.5	10.4	104%				
	toluene-d8	10	10.1	10.1	10.1	10.1	10.2	10.2	10.1	10.1	101%				
	4-bromofluorobenzene	10	10.4	10.6	10.5	10.4	10.5	10.5	10.4	10.5	105%				

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating					
		Date Analyzed	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	MDL: 2.998					
No.	Analytes	Target conc. (ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Mean (ug/l)	Mean Accuracy	Standard Deviation	Calc. MDL (ug/l)	Current RL (ug/l)	Comment
79	methyl tert butyl ether	0.1	0.107	0.090	0.107	0.101	0.113	0.105	0.132	0.127	0.110	110%	0.014	0.0414	1.00	
80	1,2-dichloroethane	0.1	0.091	0.097	0.088	0.087	0.091	0.095	0.114	0.124	0.098	98%	0.014	0.0407	0.50	
81	1,1,2,2-tetrachloroethane	0.1	0.079	0.078	0.074	0.071	0.075	0.075	0.103	0.099	0.082	82%	0.012	0.0364	0.50	
	Surrogates															
	dibromofluoromethane	10	10.3	10.2	10.3	10.2	10.3	10.3	10.2	10.1	10.2	102%				
	1,2-dichloroethane-d4	10	10.6	10.7	10.7	10.7	10.8	10.8	10.9	11.0	10.8	108%				
	toluene-d8	10	9.94	10.0	10.0	9.91	10.0	9.95	10.0	10.2	10.0	100%				
	4-bromofluorobenzene	10	10.4	10.5	10.4	10.5	10.3	10.4	10.2	10.2	10.3	103%				

Comments:

Determination of Method Detection Limits

Alpha Analytical Inc.
Westborough, MA

Page 5 of 5	
Analyst:	PS
Date:	8/30/2013
Instrument ID:	VOA108
Column ID:	RTX-VMS
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA 8260C

2013

GC/MS

Volatile Organics

Liquid

Initial Weight/Volume: N/A

Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating					
		Date Analyzed	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	MDL: 2.998					
No.	Analytes	Target conc. (ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Mean (ug/l)	Mean Accuracy	Standard Deviation	Calc. MDL (ug/l)	Current RL (ug/l)	Comment
82	acetone	0.5	0.59	0.46	0.72	0.60	0.78	0.58	0.66	0.80	0.649	130%	0.114	0.343	5.00	
83	Tert-Butyl Alcohol	2.5	3.24	3.06	3.14	3.27	3.21	3.09	3.33	3.21	3.194	128%	0.091	0.274	10.0	
84	2-hexanone	0.5	0.77	0.80	0.70	0.71	0.7	0.68	0.69	0.67	0.715	143%	0.046	0.137	5.00	
85	Ethyl-Tert-Butyl-Ether	0.5	0.50	0.49	0.47	0.45	0.45	0.44	0.43	0.44	0.459	92%	0.025	0.0759	2.00	
86	Tertiary-Amyl Methyl Ether	0.5	0.45	0.45	0.41	0.40	0.40	0.40	0.39	0.40	0.413	83%	0.024	0.0712	2.00	
87	1,3-dichloropropane	0.5	0.55	0.52	0.47	0.48	0.48	0.50	0.48	0.49	0.496	99%	0.027	0.0800	2.50	
88	tetrahydrofuran	0.5	0.76	0.82	0.77	0.69	0.63	0.84	0.63	0.75	0.736	147%	0.080	0.239	5.00	
Surrogates																
	dibromofluoromethane	10	10.2	10.29	10.37	10.29	10.28	10.31	10.4	10.43	10.3	103%				
	1,2-dichloroethane-d4	10	10.99	11.05	10.99	11.04	11.04	10.99	10.99	11.12	11.0	110%				
	toluene-d8	10	10.02	9.94	9.96	9.93	9.93	9.93	9.92	9.87	9.9	99%				
	4-bromofluorobenzene	10	10.25	10.2	10.2	10.13	10.19	10.14	10.19	10.08	10.2	102%				

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating					
		Date Analyzed	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	8/30/2013	MDL: 2.998					
No.	Analytes	Target conc. (ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	Mean (ug/l)	Mean Accuracy	Standard Deviation	Calc. MDL (ug/l)	Current RL (ug/l)	Comment
89	2-butanone	1	1.41	1.42	1.4	1.34	1.46	1.37	1.32	1.37	1.39	139%	0.045	0.136	5.00	
Surrogates																
	dibromofluoromethane	10	10.36	10.38	10.27	10.35	10.26	10.33	10.34	10.35	10.3	103%				
	1,2-dichloroethane-d4	10	11.09	11.02	11	11.03	11.11	11.06	11.21	11.04	11.1	111%				
	toluene-d8	10	9.93	9.99	9.92	9.89	9.96	9.99	9.91	9.92	9.9	99%				
	4-bromofluorobenzene	10	10.06	10.12	10.06	10.1	10.14	9.99	10.13	10.14	10.1	101%				

Comments:

Volatiles Sample Data

Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-01D
 Client ID : MW-3
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A06
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 10:55
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 11:43
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	ND	25	7.0	U
67-66-3	Chloroform	ND	25	7.0	U
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U
78-87-5	1,2-Dichloropropane	ND	10	1.4	U
124-48-1	Dibromochloromethane	ND	5.0	1.5	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
108-90-7	Chlorobenzene	ND	25	7.0	U
75-69-4	Trichlorofluoromethane	ND	25	7.0	U
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	U
71-55-6	1,1,1-Trichloroethane	ND	25	7.0	U
75-27-4	Bromodichloromethane	ND	5.0	1.9	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U
542-75-6	1,3-Dichloropropene, Total	ND	5.0	1.4	U
563-58-6	1,1-Dichloropropene	ND	25	7.0	U
75-25-2	Bromoform	ND	20	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.7	U
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
74-87-3	Chloromethane	ND	25	7.0	U
74-83-9	Bromomethane	ND	25	7.0	U
75-01-4	Vinyl chloride	ND	10	0.71	U
75-00-3	Chloroethane	320	25	7.0	
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-01D
 Client ID : MW-3
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A06
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 10:55
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 11:43
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	25	7.0	U
79-01-6	Trichloroethene	ND	5.0	1.8	U
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
1330-20-7	Xylenes, Total	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	ND	25	7.0	U
540-59-0	1,2-Dichloroethene, Total	ND	25	7.0	U
74-95-3	Dibromomethane	ND	50	10.	U
96-18-4	1,2,3-Trichloropropane	ND	25	7.0	U
107-13-1	Acrylonitrile	ND	50	15.	U
100-42-5	Styrene	ND	25	7.0	U
75-71-8	Dichlorodifluoromethane	ND	50	10.	U
67-64-1	Acetone	ND	50	15.	U
75-15-0	Carbon disulfide	ND	50	10.	U
78-93-3	2-Butanone	ND	50	19.	U
108-05-4	Vinyl acetate	ND	50	10.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
591-78-6	2-Hexanone	ND	50	10.	U
74-97-5	Bromochloromethane	ND	25	7.0	U
594-20-7	2,2-Dichloropropane	ND	25	7.0	U
106-93-4	1,2-Dibromoethane	ND	20	6.5	U
142-28-9	1,3-Dichloropropane	ND	25	7.0	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	7.0	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-01D
 Client ID : MW-3
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A06
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 10:55
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 11:43
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	25	7.0	U
104-51-8	n-Butylbenzene	ND	25	7.0	U
135-98-8	sec-Butylbenzene	ND	25	7.0	U
98-06-6	tert-Butylbenzene	ND	25	7.0	U
95-49-8	o-Chlorotoluene	ND	25	7.0	U
106-43-4	p-Chlorotoluene	ND	25	7.0	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U
87-68-3	Hexachlorobutadiene	ND	25	7.0	U
98-82-8	Isopropylbenzene	ND	25	7.0	U
99-87-6	p-Isopropyltoluene	ND	25	7.0	U
91-20-3	Naphthalene	ND	25	7.0	U
103-65-1	n-Propylbenzene	ND	25	7.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U
108-67-8	1,3,5-Trimethylbenzene	ND	25	7.0	U
95-63-6	1,2,4-Trimethylbenzene	ND	25	7.0	U
123-91-1	1,4-Dioxane	860	2500	610	J
105-05-5	p-Diethylbenzene	ND	20	7.0	U
622-96-8	p-Ethyltoluene	ND	20	7.0	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	20	5.4	U
60-29-7	Ethyl ether	ND	25	7.0	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	25	7.0	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-02
 Client ID : MW-5
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 11:45
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 12:43
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.08	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-02
 Client ID : MW-5
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 11:45
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 12:43
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-02
 Client ID : MW-5
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 11:45
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 12:43
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	740	250	61.	
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	0.70	2.5	0.70	J
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-03
 Client ID : MW-6A
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 12:25
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 13:11
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	2.8	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	0.26	0.50	0.13	J
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.63	1.0	0.07	J
75-00-3	Chloroethane	380	2.5	0.70	E
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-03
 Client ID : MW-6A
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 12:25
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 13:11
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-03
 Client ID : MW-6A
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 12:25
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 13:11
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	100	250	61.	J
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Form 1 VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-03D
 Client ID : MW-6A
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A07
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 12:25
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 12:11
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-00-3	Chloroethane	270	25	7.0	



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-04
 Client ID : MW-4
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A10
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 13:07
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 13:39
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	0.16	0.50	0.16	J
108-88-3	Toluene	1.4	2.5	0.70	J
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-04
 Client ID : MW-4
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A10
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 13:07
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 13:39
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	0.94	2.5	0.70	J
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	4.6	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-04
 Client ID : MW-4
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A10
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 13:07
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 13:39
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-05D
 Client ID : DUPE
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A08
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 00:00
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 12:39
 Dilution Factor : 20
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	50	14.	U
75-34-3	1,1-Dichloroethane	ND	50	14.	U
67-66-3	Chloroform	ND	50	14.	U
56-23-5	Carbon tetrachloride	ND	10	2.7	U
78-87-5	1,2-Dichloropropane	ND	20	2.7	U
124-48-1	Dibromochloromethane	ND	10	3.0	U
79-00-5	1,1,2-Trichloroethane	ND	30	10.	U
127-18-4	Tetrachloroethene	ND	10	3.6	U
108-90-7	Chlorobenzene	ND	50	14.	U
75-69-4	Trichlorofluoromethane	ND	50	14.	U
107-06-2	1,2-Dichloroethane	ND	10	2.6	U
71-55-6	1,1,1-Trichloroethane	ND	50	14.	U
75-27-4	Bromodichloromethane	ND	10	3.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.3	U
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	U
542-75-6	1,3-Dichloropropene, Total	ND	10	2.9	U
563-58-6	1,1-Dichloropropene	ND	50	14.	U
75-25-2	Bromoform	ND	40	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.3	U
71-43-2	Benzene	ND	10	3.2	U
108-88-3	Toluene	ND	50	14.	U
100-41-4	Ethylbenzene	ND	50	14.	U
74-87-3	Chloromethane	ND	50	14.	U
74-83-9	Bromomethane	ND	50	14.	U
75-01-4	Vinyl chloride	ND	20	1.4	U
75-00-3	Chloroethane	750	50	14.	
75-35-4	1,1-Dichloroethene	ND	10	3.4	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-05D
 Client ID : DUPE
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A08
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 00:00
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 12:39
 Dilution Factor : 20
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	50	14.	U
79-01-6	Trichloroethene	ND	10	3.5	U
95-50-1	1,2-Dichlorobenzene	ND	50	14.	U
541-73-1	1,3-Dichlorobenzene	ND	50	14.	U
106-46-7	1,4-Dichlorobenzene	ND	50	14.	U
1634-04-4	Methyl tert butyl ether	ND	50	14.	U
179601-23-1	p/m-Xylene	ND	50	14.	U
95-47-6	o-Xylene	ND	50	14.	U
1330-20-7	Xylenes, Total	ND	50	14.	U
156-59-2	cis-1,2-Dichloroethene	ND	50	14.	U
540-59-0	1,2-Dichloroethene, Total	ND	50	14.	U
74-95-3	Dibromomethane	ND	100	20.	U
96-18-4	1,2,3-Trichloropropane	ND	50	14.	U
107-13-1	Acrylonitrile	ND	100	30.	U
100-42-5	Styrene	ND	50	14.	U
75-71-8	Dichlorodifluoromethane	ND	100	20.	U
67-64-1	Acetone	ND	100	29.	U
75-15-0	Carbon disulfide	ND	100	20.	U
78-93-3	2-Butanone	ND	100	39.	U
108-05-4	Vinyl acetate	ND	100	20.	U
108-10-1	4-Methyl-2-pentanone	ND	100	20.	U
591-78-6	2-Hexanone	ND	100	20.	U
74-97-5	Bromochloromethane	ND	50	14.	U
594-20-7	2,2-Dichloropropane	ND	50	14.	U
106-93-4	1,2-Dibromoethane	ND	40	13.	U
142-28-9	1,3-Dichloropropane	ND	50	14.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	14.	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-05D
 Client ID : DUPE
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A08
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 00:00
 Date Received : 09/29/16
 Date Analyzed : 10/06/16 12:39
 Dilution Factor : 20
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	50	14.	U
104-51-8	n-Butylbenzene	ND	50	14.	U
135-98-8	sec-Butylbenzene	ND	50	14.	U
98-06-6	tert-Butylbenzene	ND	50	14.	U
95-49-8	o-Chlorotoluene	ND	50	14.	U
106-43-4	p-Chlorotoluene	ND	50	14.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	14.	U
87-68-3	Hexachlorobutadiene	ND	50	14.	U
98-82-8	Isopropylbenzene	ND	50	14.	U
99-87-6	p-Isopropyltoluene	ND	50	14.	U
91-20-3	Naphthalene	ND	50	14.	U
103-65-1	n-Propylbenzene	ND	50	14.	U
87-61-6	1,2,3-Trichlorobenzene	ND	50	14.	U
120-82-1	1,2,4-Trichlorobenzene	ND	50	14.	U
108-67-8	1,3,5-Trimethylbenzene	ND	50	14.	U
95-63-6	1,2,4-Trimethylbenzene	ND	50	14.	U
123-91-1	1,4-Dioxane	ND	5000	1200	U
105-05-5	p-Diethylbenzene	ND	40	14.	U
622-96-8	p-Ethyltoluene	ND	40	14.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	40	11.	U
60-29-7	Ethyl ether	ND	50	14.	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	50	14.	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-06
 Client ID : FIELD BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 13:15
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 14:35
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-06
 Client ID : FIELD BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 13:15
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 14:35
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-06
 Client ID : FIELD BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 13:15
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 14:35
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	220	250	61.	J
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-07
 Client ID : TRIP BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 00:00
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 15:03
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-07
 Client ID : TRIP BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 00:00
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 15:03
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : L1630897-07
 Client ID : TRIP BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : 09/28/16 00:00
 Date Received : 09/29/16
 Date Analyzed : 10/05/16 15:03
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : WG939161-5
 Client ID : WG939161-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/05/16 11:20
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	0.88	2.5	0.70	J
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : WG939161-5
 Client ID : WG939161-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/05/16 11:20
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : WG939161-5
 Client ID : WG939161-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161005A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/05/16 11:20
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : WG939161-12
 Client ID : WG939161-12BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/06/16 10:57
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	1.0	2.5	0.70	J
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : WG939161-12
 Client ID : WG939161-12BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/06/16 10:57
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1

VOA

Client : P. W. Grosser
 Project Name : CUE1601
 Lab ID : WG939161-12
 Client ID : WG939161-12BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V08161006A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1630897
 Project Number : CUE1601
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 10/06/16 10:57
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A08.D
 Acq On : 5 Oct 2016 12:43 pm
 Operator : VOA108:PD
 Sample : l1630897-02,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 05 13:06:13 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.922	96	222912	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	86.24%		
59) Chlorobenzene-d5	9.430	117	148422	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	87.59%		
79) 1,4-Dichlorobenzene-d4	12.154	152	45741	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	63.33%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	55733	10.200	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.00%		
43) 1,2-Dichloroethane-d4	5.645	65	48772	9.373	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.73%		
60) Toluene-d8	7.597	98	207537	10.378	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.78%		
83) 4-Bromofluorobenzene	10.935	95	52638	11.778	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	117.78%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.875	62	584	0.077 ug/L	#	45
5) Bromomethane	2.190	94	139	0.219 ug/L	#	50
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	2.723	74	1205	0.697 ug/L		94
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.932	76	9713	0.650 ug/L		95
15) Methylene chloride	3.456	84	100	Below Cal	#	19
17) Acetone	3.509	43	817M1	1.041 ug/L		
18) trans-1,2-Dichloroethene	3.607	96	247	N.D.		
20) Methyl tert-butyl ether	3.693	73	3881	0.563 ug/L	#	87
23) 1,1-Dichloroethane	4.176	63	486	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	4.232	43	26	N.D.		
28) cis-1,2-Dichloroethene	4.683	96	137	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A08.D
 Acq On : 5 Oct 2016 12:43 pm
 Operator : VOA108:PD
 Sample : 11630897-02,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 05 13:06:13 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.503	78	119		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	6.923	88	13186	744.302	ug/L	96
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.653	92	78		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.455	112	31		N.D.	
74) Ethylbenzene	9.488	91	275		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.661	106	59		N.D.	
77) o Xylene	10.219	106	154		N.D.	
78) Styrene	10.297	104	194		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.598	105	311		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.100	91	602		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.214	105	125		N.D.	
89) 2-Chlorotoluene	11.437	91	100		N.D.	
90) 1,3,5-Trimethylbenzene	11.323	105	239		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.457	91	304		N.D.	
94) tert-Butylbenzene	11.666	119	177		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A08.D
 Acq On : 5 Oct 2016 12:43 pm
 Operator : VOA108:PD
 Sample : l1630897-02,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 05 13:06:13 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

97)	1,2,4-Trimethylbenzene	11.747	105	235		N.D.	
98)	sec-Butylbenzene	11.850	105	324		N.D.	
99)	p-Isopropyltoluene	12.015	119	83		N.D.	
100)	1,3-Dichlorobenzene	12.076	146	245		N.D.	
101)	1,4-Dichlorobenzene	12.162	146	333		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.595	146	232		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	d
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

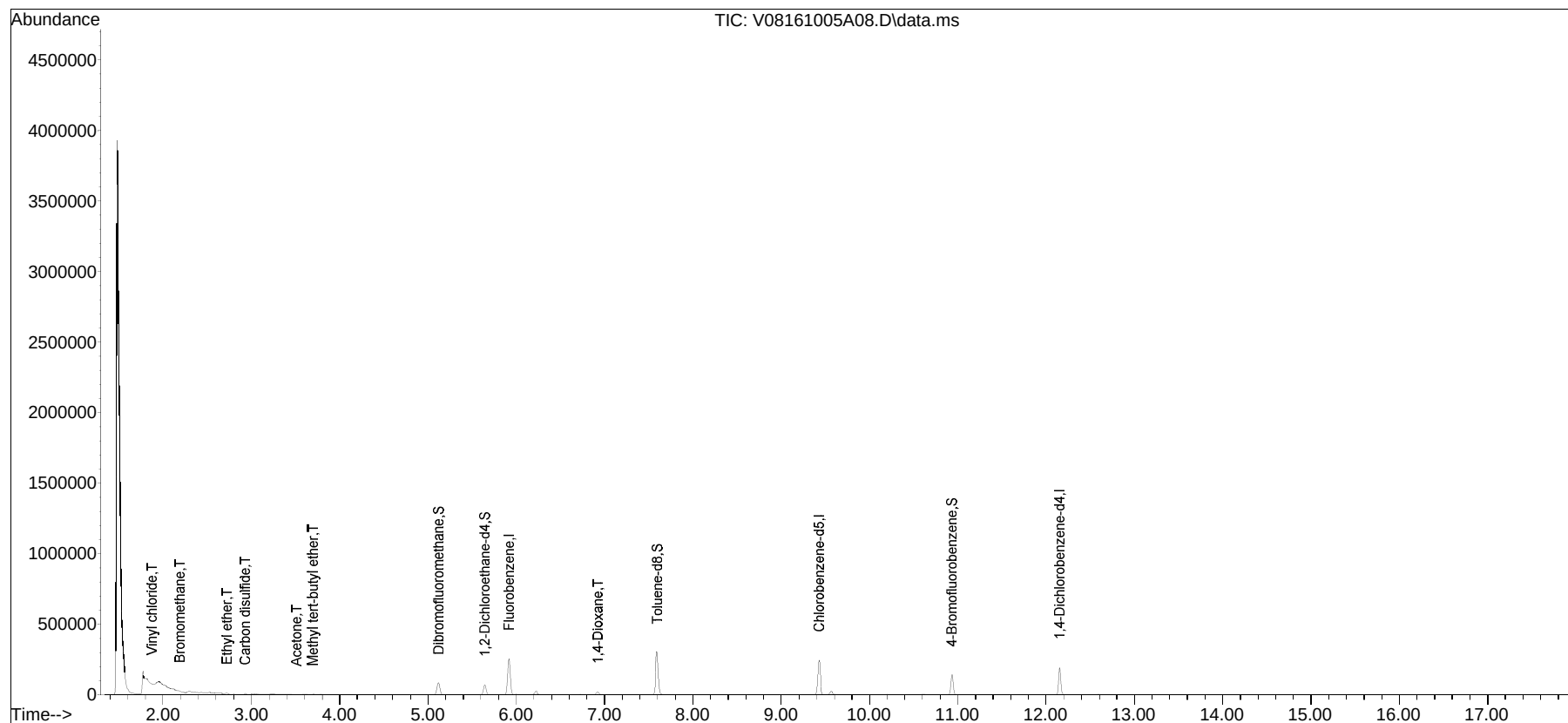
(#) = qualifier out of range (m) = manual integration (+) = signals summed

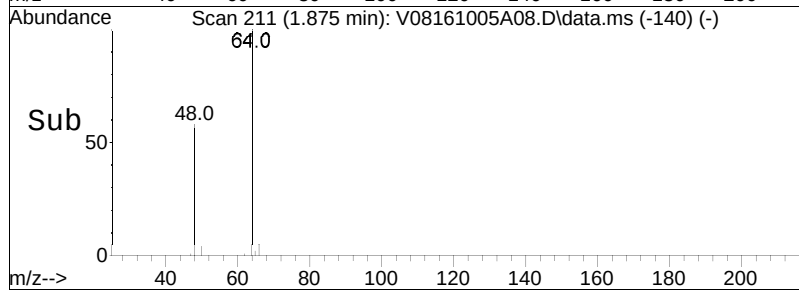
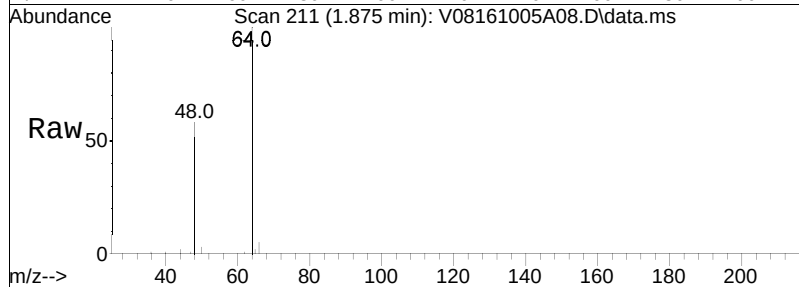
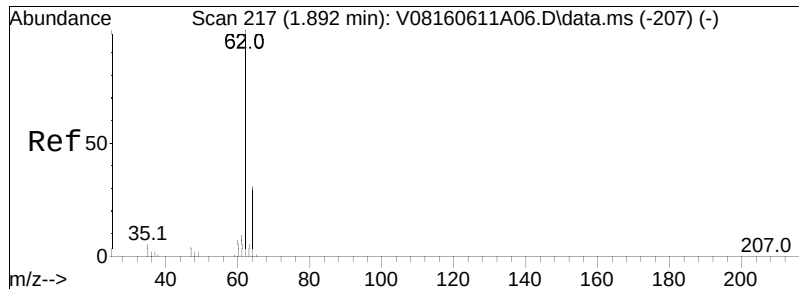
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A08.D
 Acq On : 5 Oct 2016 12:43 pm
 Operator : VOA108:PD
 Sample : l1630897-02,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 05 13:06:13 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

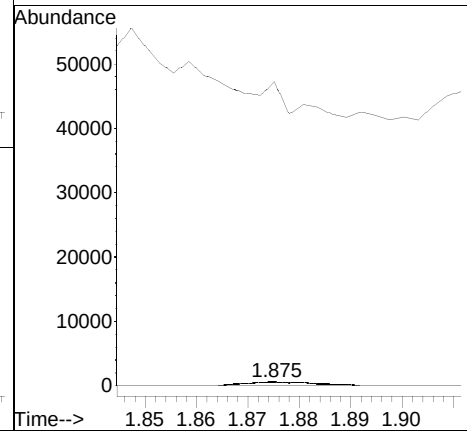
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•

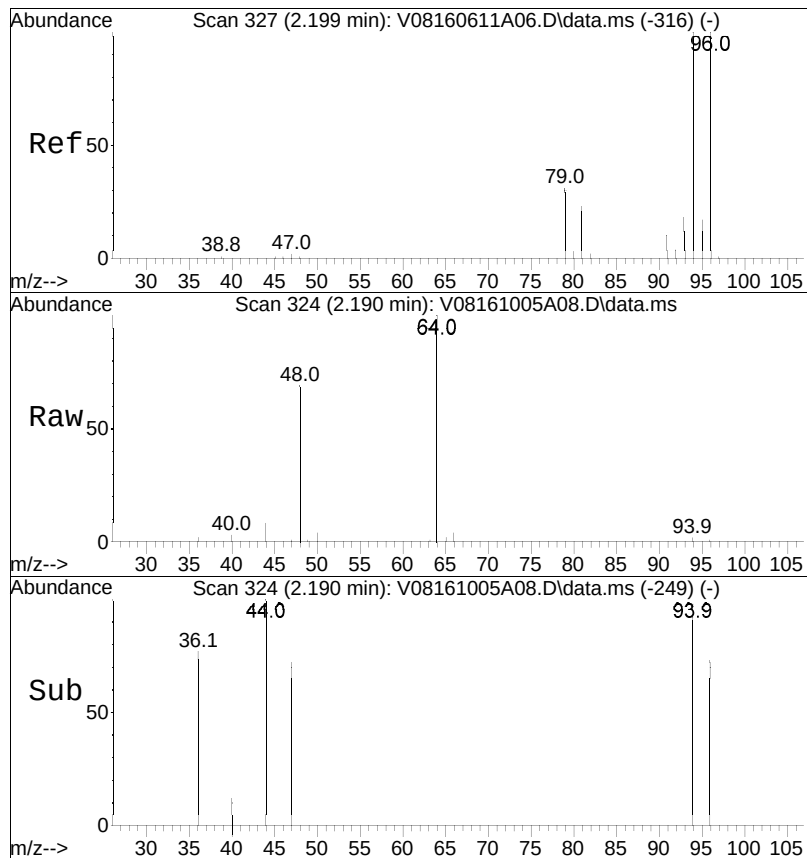




#4
 Vinyl chloride
 Concen: 0.08 ug/L
 RT: 1.875 min Scan# 211
 Delta R.T. -0.003 min
 Lab File: V08161005A08.D
 Acq: 5 Oct 2016 12:43 pm

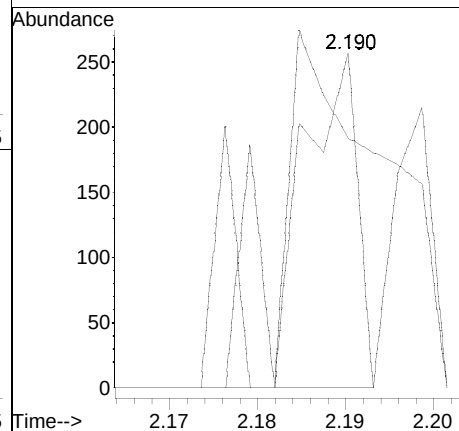
Tgt Ion: 62 Resp: 584
 Ion Ratio Lower Upper
 62 100
 64 0.0 9.7 49.7#

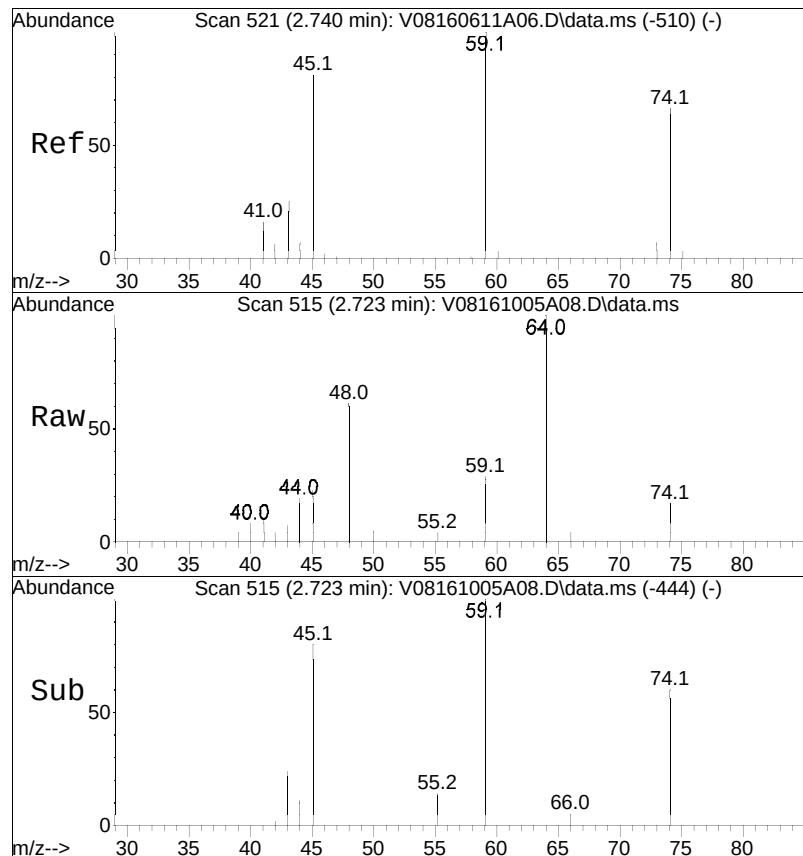




#5
 Bromomethane
 Concen: 0.22 ug/L
 RT: 2.190 min Scan# 324
 Delta R.T. 0.008 min
 Lab File: V08161005A08.D
 Acq: 5 Oct 2016 12:43 pm

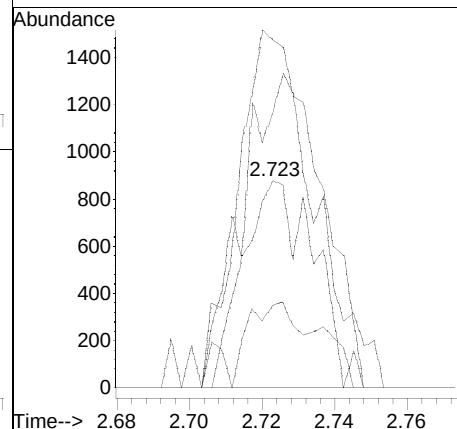
Tgt Ion: 94 Resp: 139
 Ion Ratio Lower Upper
 94 100
 96 144.6 75.7 115.7#

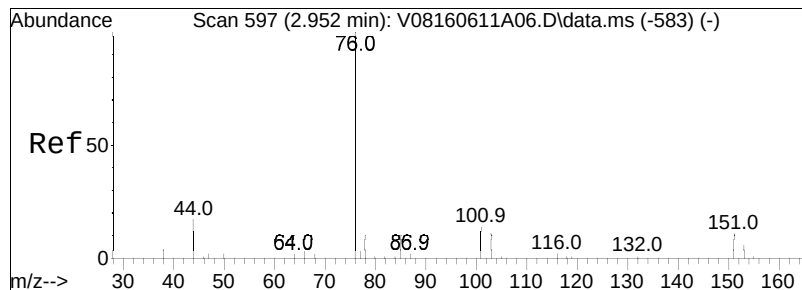




#8
 Ethyl ether
 Concen: 0.70 ug/L
 RT: 2.723 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: V08161005A08.D
 Acq: 5 Oct 2016 12:43 pm

Tgt Ion:	74	Resp:	1205
Ion	Ratio	Lower	Upper
74	100		
59	189.3	126.0	261.8
45	166.0	99.2	206.0
43	40.3	26.7	55.4





#11

Carbon disulfide

Concen: 0.65 ug/L

RT: 2.932 min Scan# 590

Delta R.T. 0.000 min

Lab File: V08161005A08.D

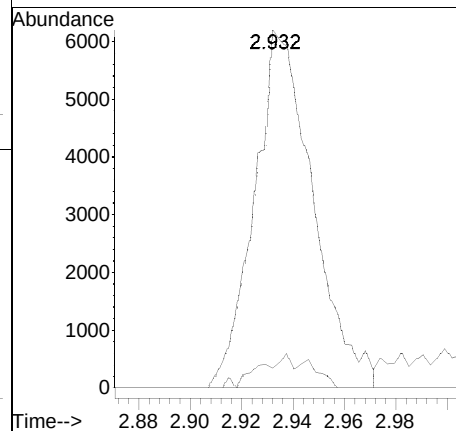
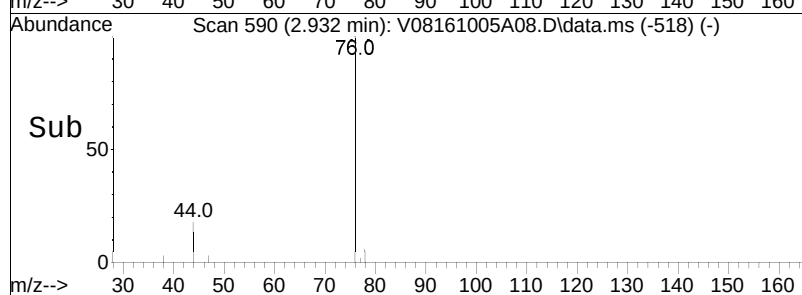
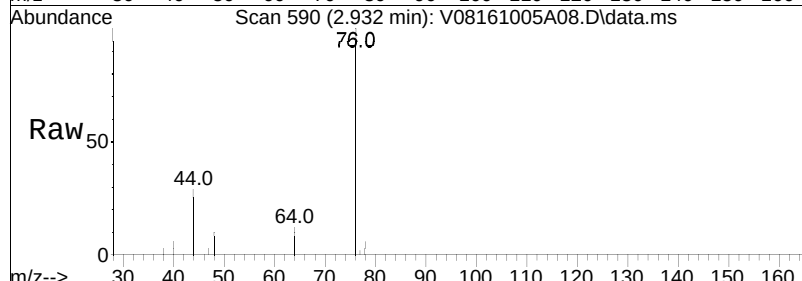
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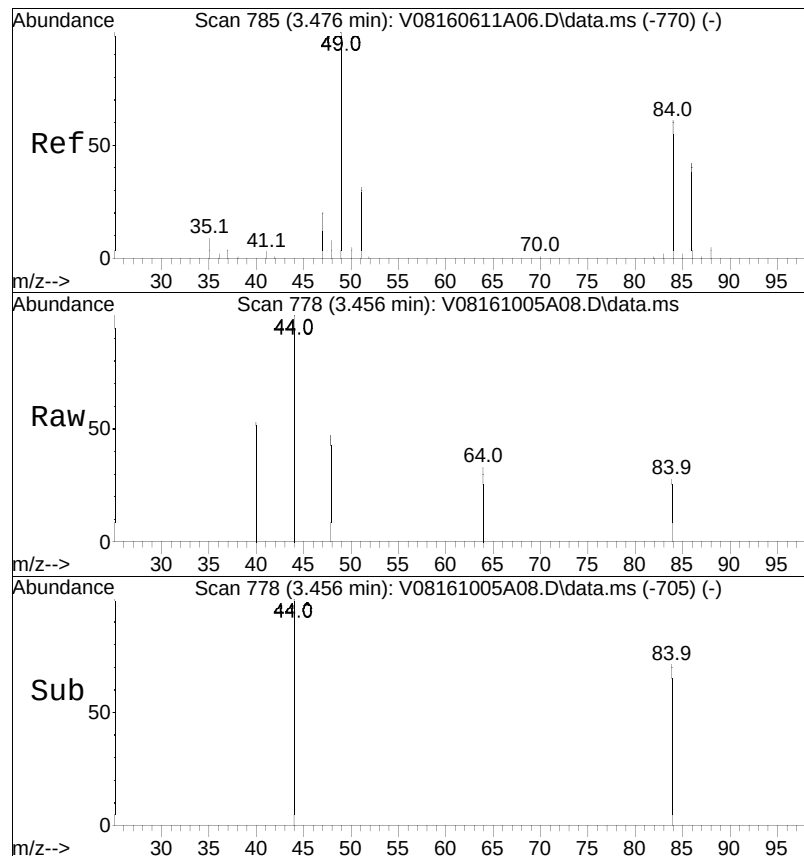
Tgt Ion: 76 Resp: 9713

Ion Ratio Lower Upper

76 100

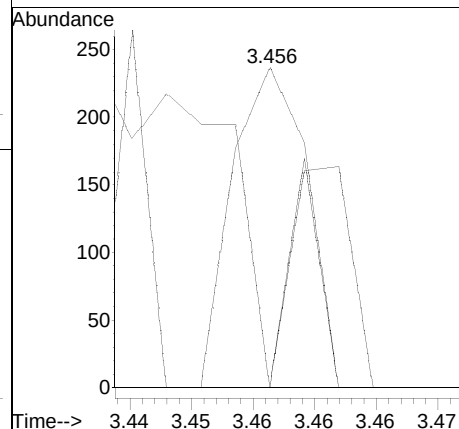
78 8.3 6.6 13.8

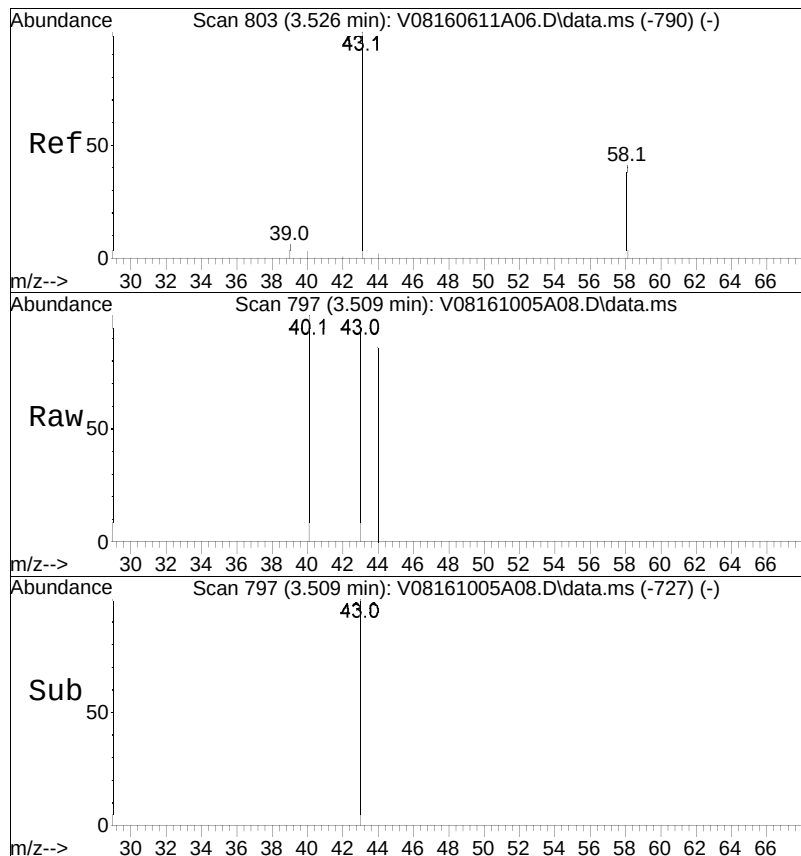




#15
 Methylene chloride
 Concen: Below Cal
 RT: 3.456 min Scan# 778
 Delta R.T. 0.002 min
 Lab File: V08161005A08.D
 Acq: 5 Oct 2016 12:43 pm

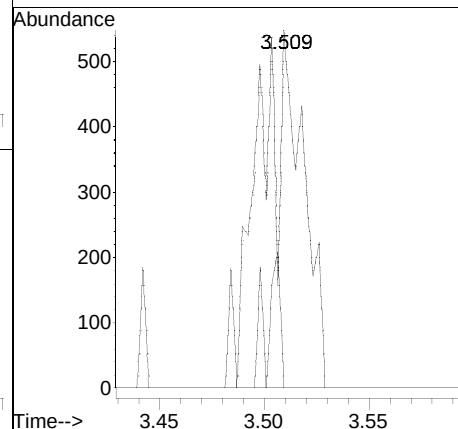
Tgt Ion:	84	Resp:	100
Ion Ratio	Lower	Upper	
84	100		
86	28.0	41.7	86.7#
49	54.0	124.3	258.1#

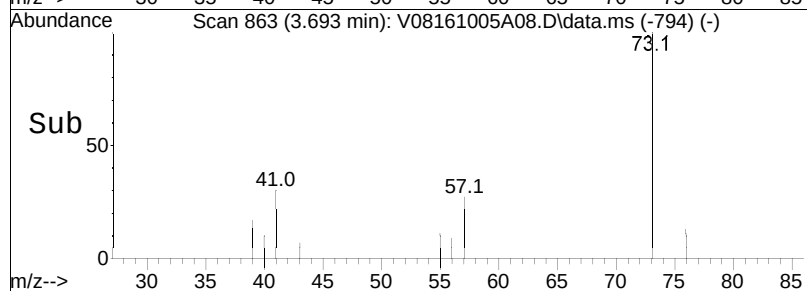
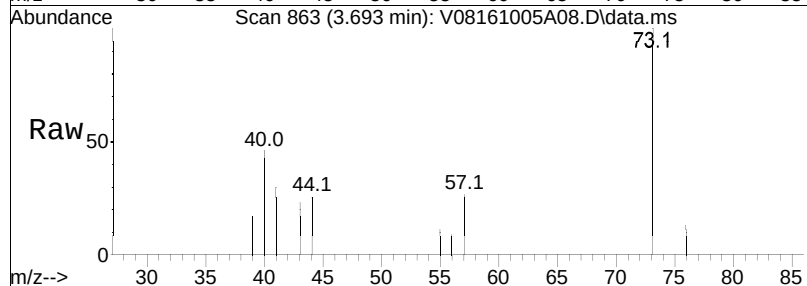
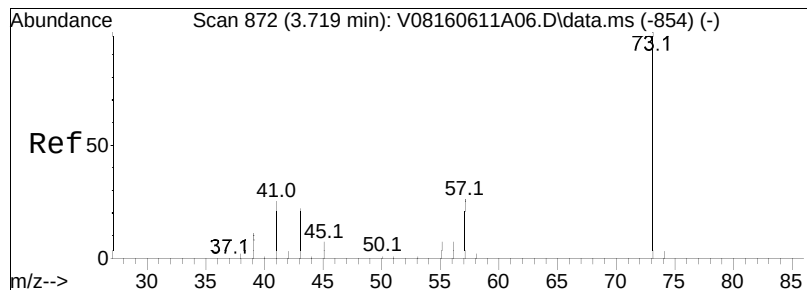




#17
 Acetone
 Concen: 1.04 ug/L M1
 RT: 3.509 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: V08161005A08.D
 Acq: 5 Oct 2016 12:43 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
58	11.4	24.5	36.7#





#20

Methyl tert-butyl ether

Concen: 0.56 ug/L

RT: 3.693 min Scan# 863

Delta R.T. -0.009 min

Lab File: V08161005A08.D

Acq: 5 Oct 2016 12:43 pm

Tgt Ion: 73 Resp: 3881

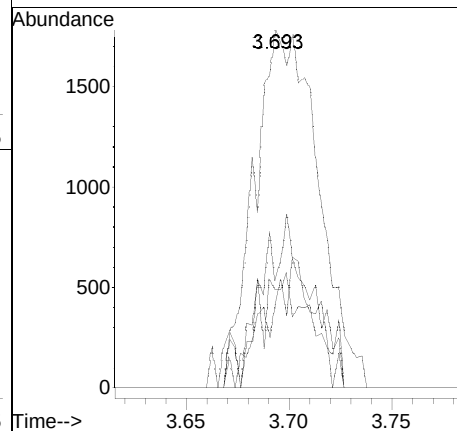
Ion Ratio Lower Upper

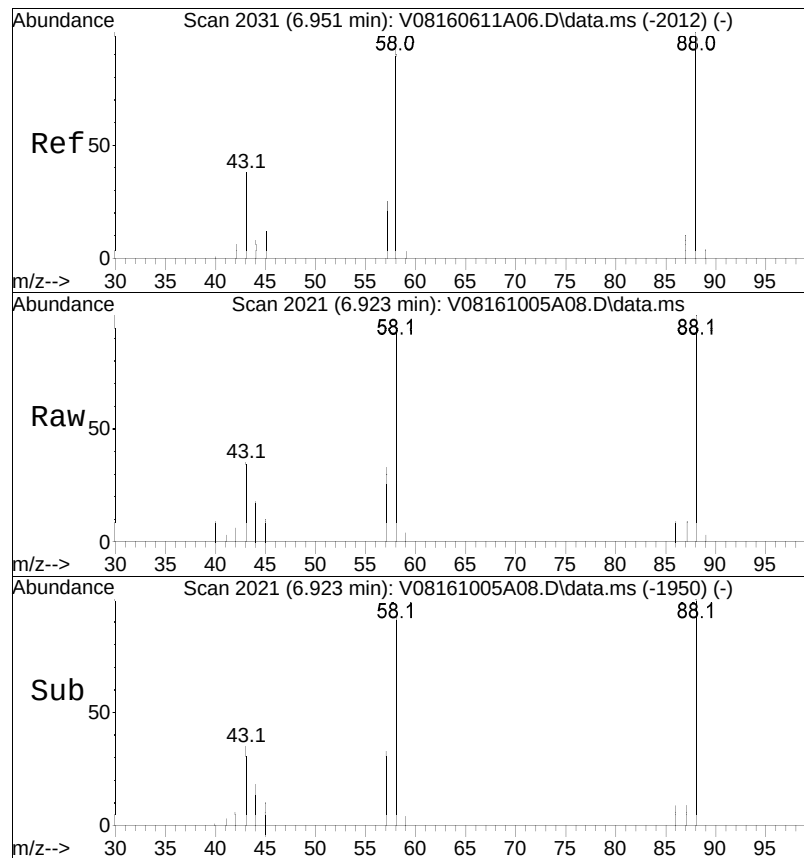
73 100

57 21.1 21.4 44.4#

43 20.0 8.1 16.9#

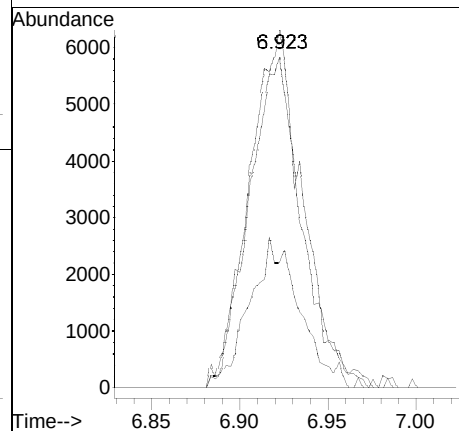
41 35.5 21.7 45.1





#57
 1,4-Dioxane
 Concen: 744.30 ug/L
 RT: 6.923 min Scan# 2021
 Delta R.T. -0.002 min
 Lab File: V08161005A08.D
 Acq: 5 Oct 2016 12:43 pm

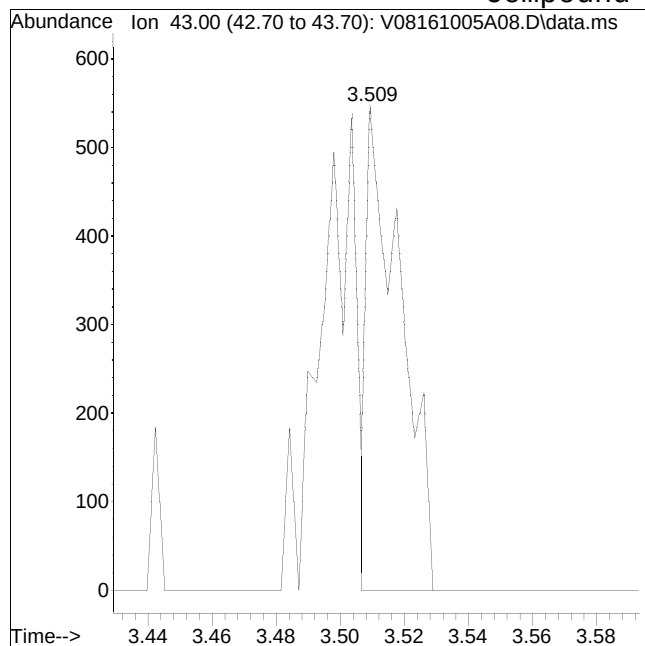
Tgt Ion:	88	Resp:	13186
Ion Ratio	Lower	Upper	
88	100		
58	92.0	70.8	106.2
43	39.7	29.3	43.9



Manual Integration Report

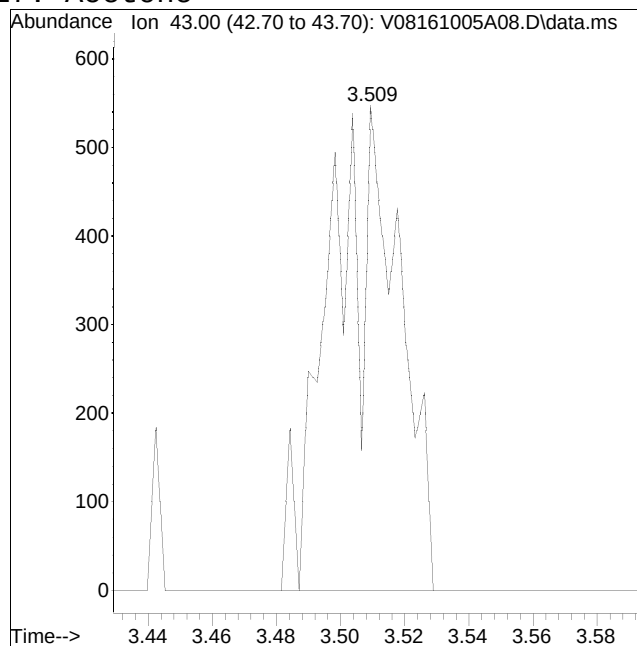
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161005A08.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 12:43 pm Instrument : VOA 108
Sample : l1630897-02,31,10,10,,c Quant Date : 10/5/2016 1:04 pm

Compound #17: Acetone



Original Peak Response = 403

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 817 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A09.D
 Acq On : 5 Oct 2016 1:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 13:30:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.922	96	219477	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	84.91%		
59) Chlorobenzene-d5	9.427	117	146128	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	86.24%		
79) 1,4-Dichlorobenzene-d4	12.154	152	45171	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	62.54%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	54228	10.080	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.80%		
43) 1,2-Dichloroethane-d4	5.643	65	47908	9.351	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.51%		
60) Toluene-d8	7.595	98	202650	10.292	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.92%		
83) 4-Bromofluorobenzene	10.938	95	51276	11.618	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	116.18%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.878	62	4673	0.629	ug/L #	45
5) Bromomethane	0.000		0	N.D. d		
6) Chloroethane	2.302	64	1560798	385.184	ug/L	97
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	2.717	74	100	N.D.		
10) 1,1-Dichloroethene	2.904	96	131	N.D.		
11) Carbon disulfide	2.932	76	741	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	3.601	96	711M1	0.134	ug/L	
20) Methyl tert-butyl ether	3.696	73	4083	0.601	ug/L #	92
23) 1,1-Dichloroethane	4.173	63	31503	2.819	ug/L	98
25) Acrylonitrile	0.000		0	N.D. d		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.686	96	1880	0.352	ug/L #	86
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A09.D
 Acq On : 5 Oct 2016 1:11 pm
 Operator : VOA108:PD
 Sample : 11630897-03,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 13:30:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.291	43	26		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.501	78	1027		N.D.	
44) 1,2-Dichloroethane	5.712	62	1387M1	0.256	ug/L	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	6.725	63	30		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	6.928	88	1773M1	101.646	ug/L	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.651	92	338		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	8.317	83	26		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.449	112	106		N.D.	
74) Ethylbenzene	9.480	91	241		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.672	106	228		N.D.	
77) o Xylene	10.211	106	34		N.D.	
78) Styrene	10.289	104	113		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.615	105	565		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.097	91	599		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.329	105	313		N.D.	
89) 2-Chlorotoluene	11.267	91	531		N.D.	
90) 1,3,5-Trimethylbenzene	11.329	105	313		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.460	91	315		N.D.	
94) tert-Butylbenzene	11.666	119	198		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A09.D
 Acq On : 5 Oct 2016 1:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 13:30:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.742	105	378		N.D.	
98)	sec-Butylbenzene	11.859	105	551		N.D.	
99)	p-Isopropyltoluene	12.015	119	136		N.D.	
100)	1,3-Dichlorobenzene	12.079	146	159		N.D.	
101)	1,4-Dichlorobenzene	12.171	146	298		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.598	146	221		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	d
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

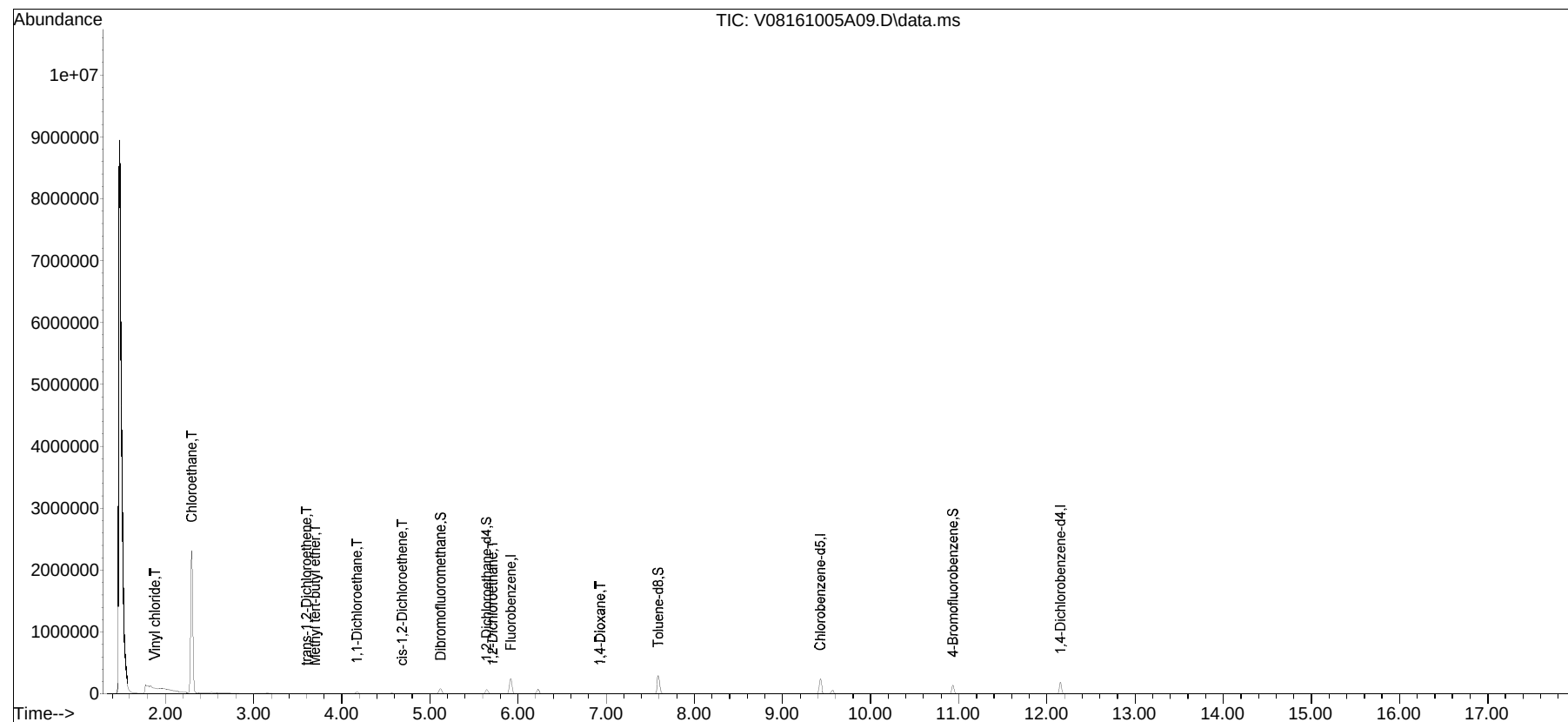
(#) = qualifier out of range (m) = manual integration (+) = signals summed

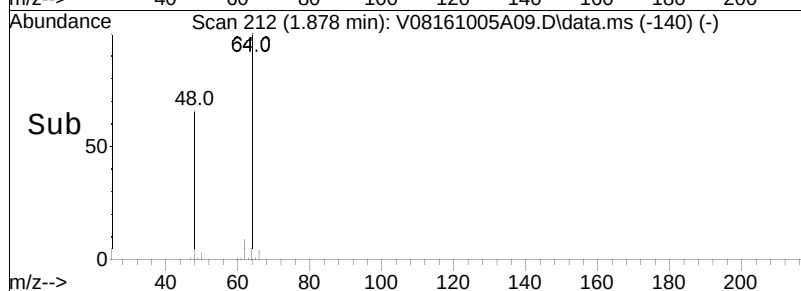
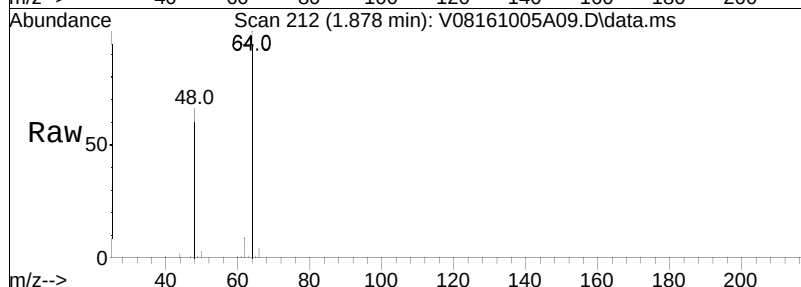
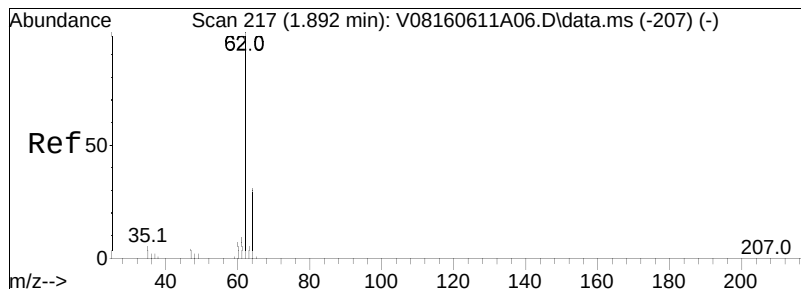
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A09.D
 Acq On : 5 Oct 2016 1:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 05 13:30:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

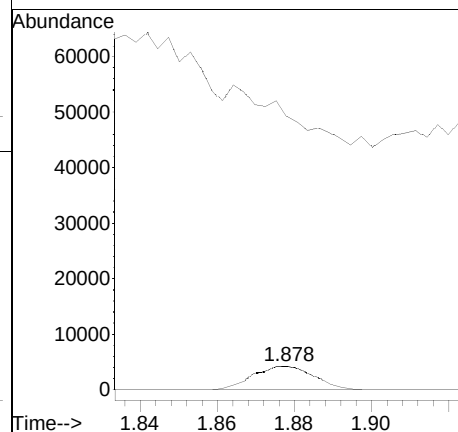
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•

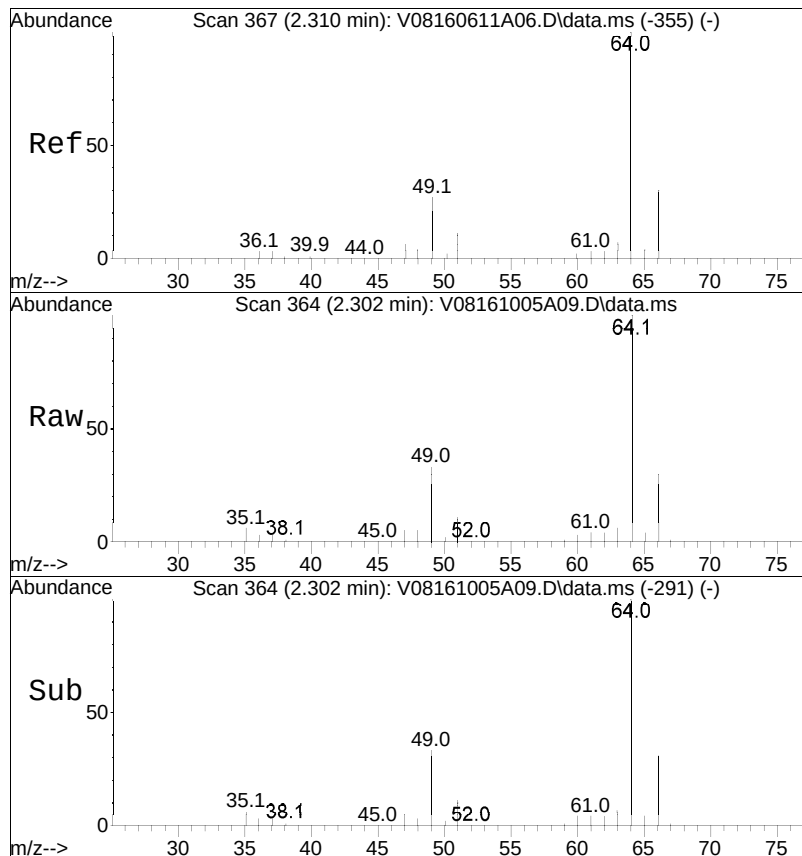




#4
 Vinyl chloride
 Concen: 0.63 ug/L
 RT: 1.878 min Scan# 212
 Delta R.T. 0.000 min
 Lab File: V08161005A09.D
 Acq: 5 Oct 2016 1:11 pm

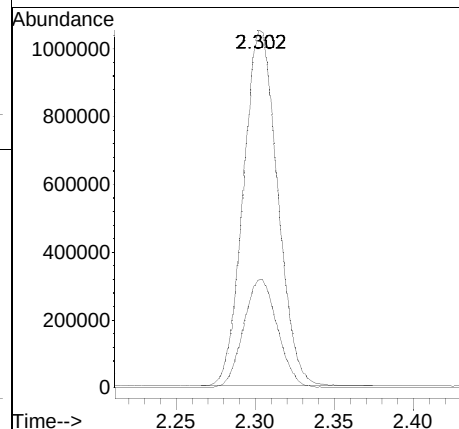
Tgt Ion: 62 Resp: 4673
 Ion Ratio Lower Upper
 62 100
 64 0.0 9.7 49.7#

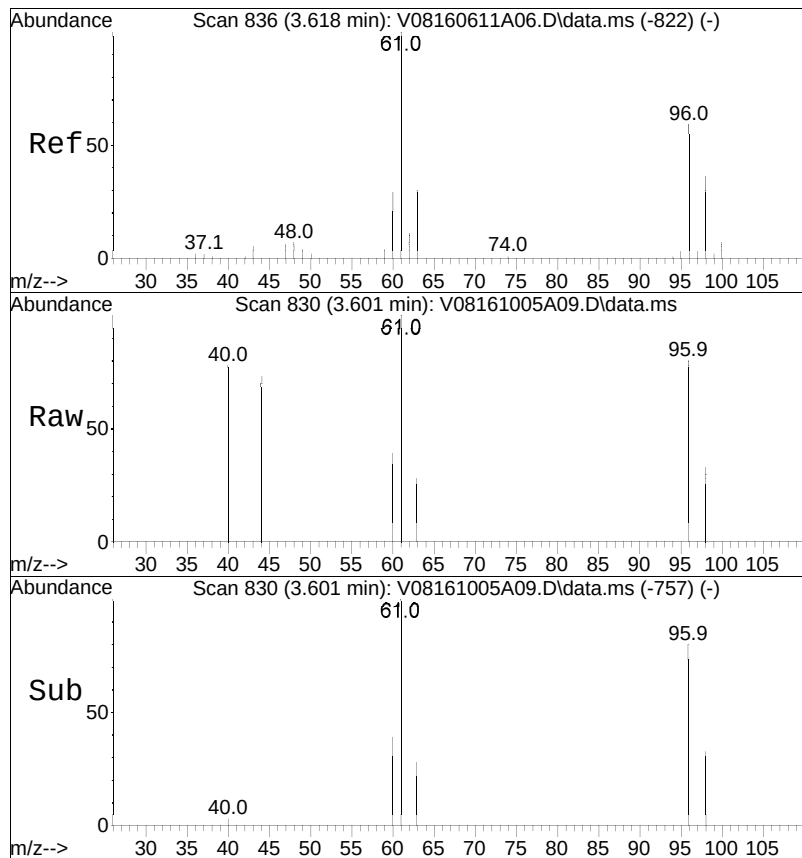




#6
 Chloroethane
 Concen: 385.18 ug/L
 RT: 2.302 min Scan# 364
 Delta R.T. 0.003 min
 Lab File: V08161005A09.D
 Acq: 5 Oct 2016 1:11 pm

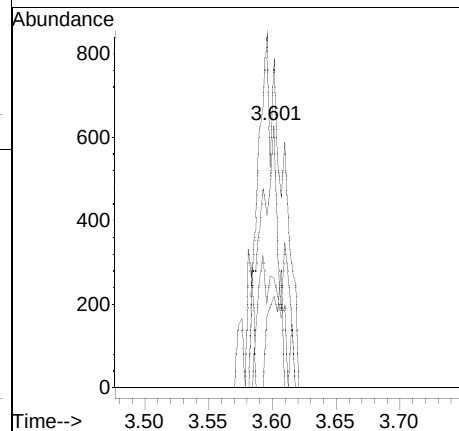
Tgt Ion:	64	Resp:	1560798
Ion Ratio	Lower	Upper	
64	100		
66	30.6	9.1	49.1

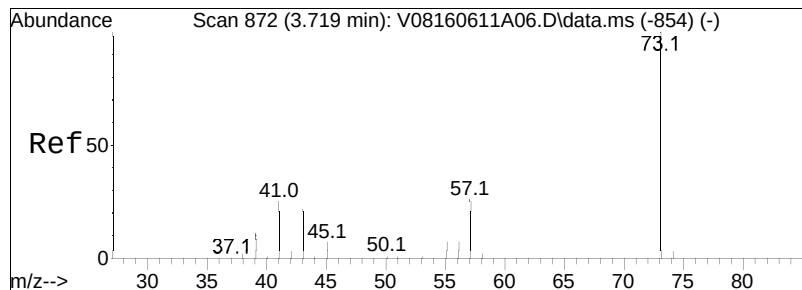




#18
trans-1,2-Dichloroethene
Concen: 0.13 ug/L M1
RT: 3.601 min Scan# 830
Delta R.T. 0.002 min
Lab File: V08161005A09.D
Acq: 5 Oct 2016 1:11 pm

Tgt Ion:	96	Resp:	711
Ion Ratio	Lower	Upper	
96	100		
61	171.3	114.1	236.9
98	21.8	42.1	87.3#
63	24.6	36.1	74.9#





#20

Methyl tert-butyl ether

Concen: 0.60 ug/L

RT: 3.696 min Scan# 864

Delta R.T. -0.006 min

Lab File: V08161005A09.D

Acq: 5 Oct 2016 1:11 pm

Tgt Ion: 73 Resp: 4083

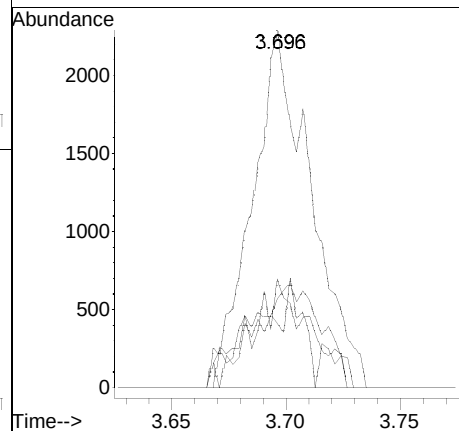
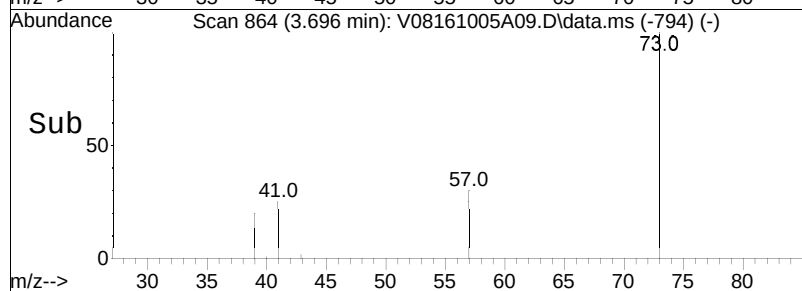
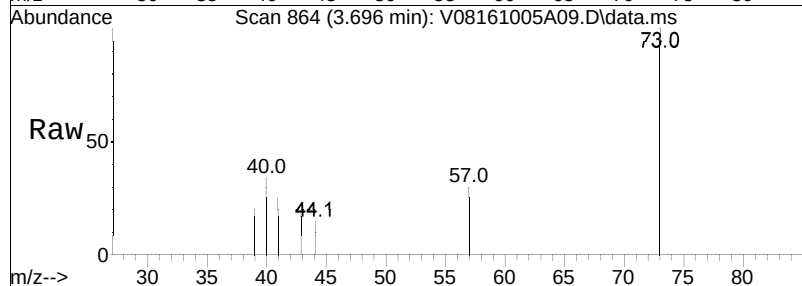
Ion Ratio Lower Upper

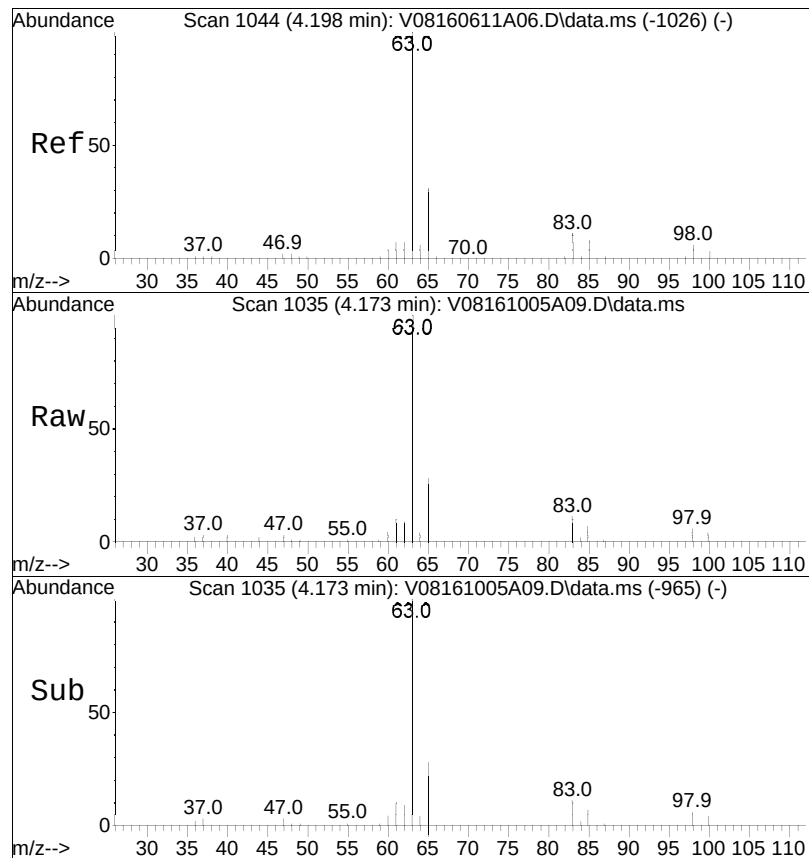
73 100

57 30.3 21.4 44.4

43 22.3 8.1 16.9#

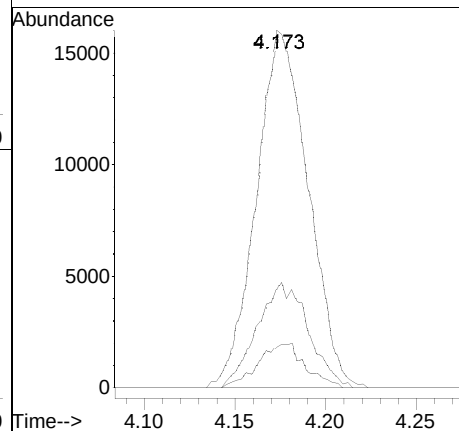
41 36.2 21.7 45.1

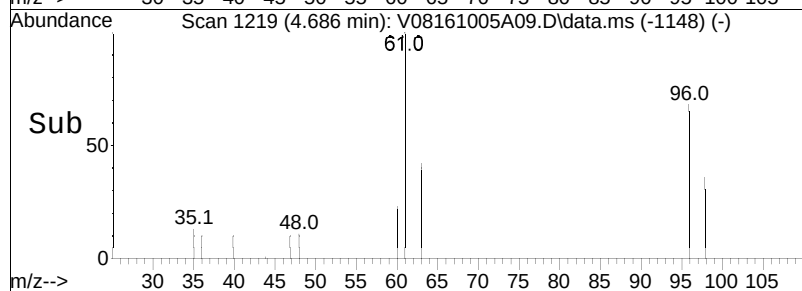
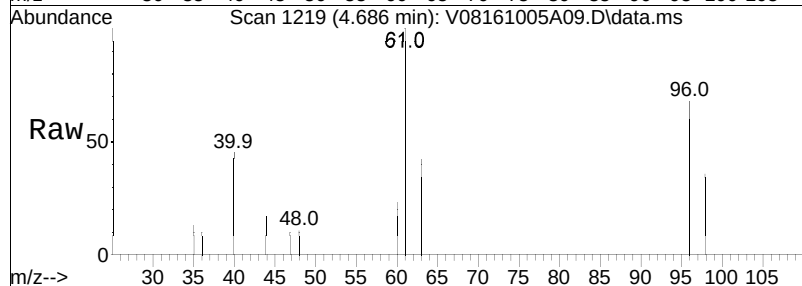
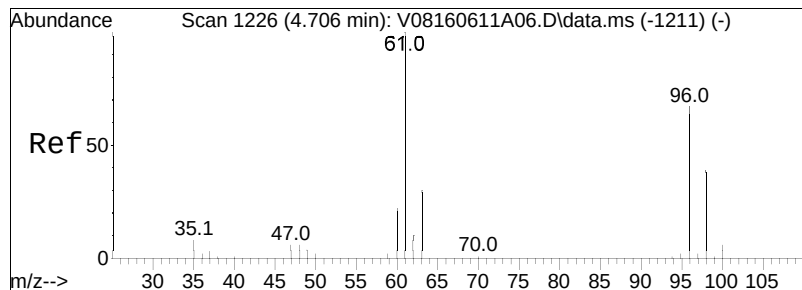




#23
 1,1-Dichloroethane
 Concen: 2.82 ug/L
 RT: 4.173 min Scan# 1035
 Delta R.T. -0.006 min
 Lab File: V08161005A09.D
 Acq: 5 Oct 2016 1:11 pm

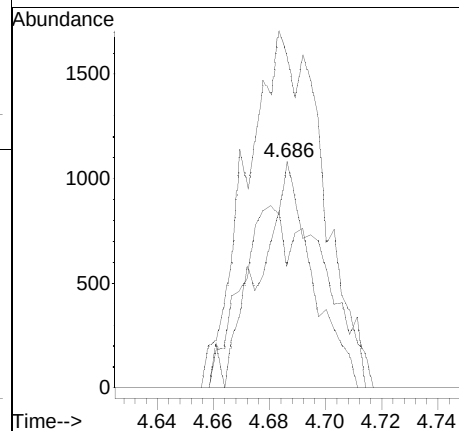
Tgt Ion	Ratio	Lower	Upper
63	100		
65	29.2	8.1	48.1
83	11.4	0.0	30.5

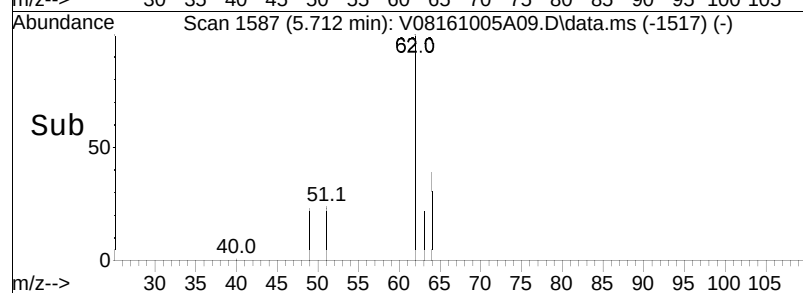
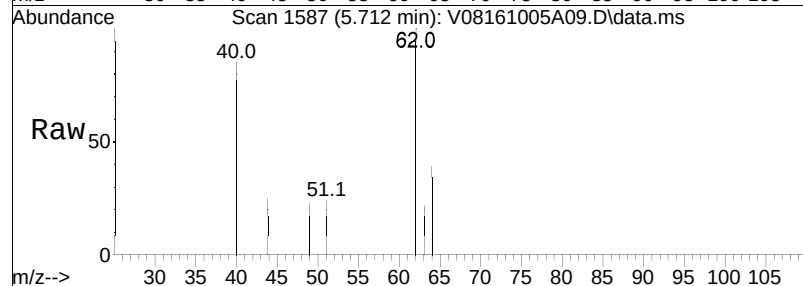
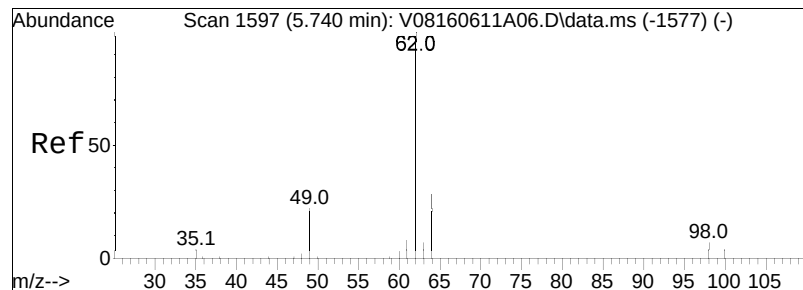




#28
 cis-1,2-Dichloroethene
 Concen: 0.35 ug/L
 RT: 4.686 min Scan# 1219
 Delta R.T. -0.003 min
 Lab File: V08161005A09.D
 Acq: 5 Oct 2016 1:11 pm

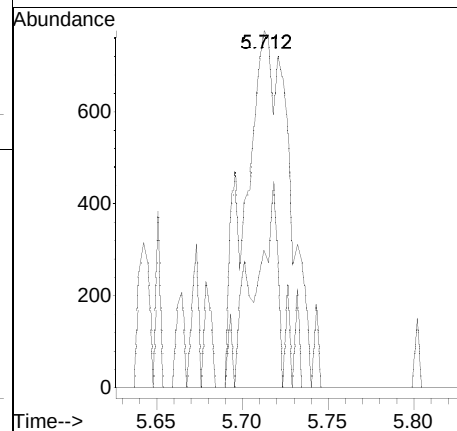
Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.1	127.6	191.4
98	40.2	50.0	75.0#

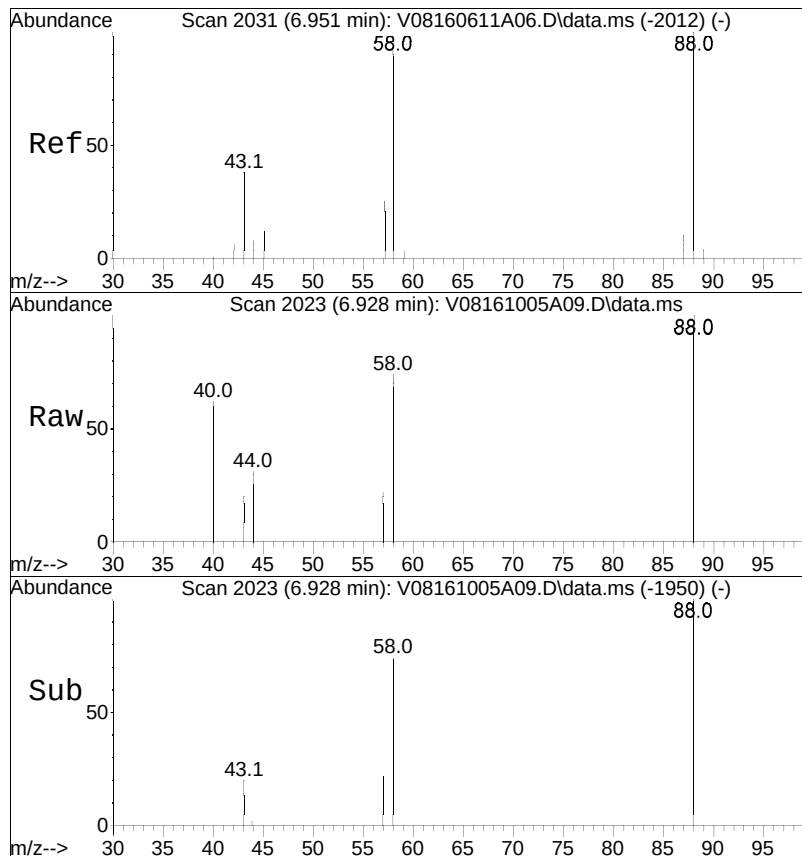




#44
 1,2-Dichloroethane
 Concen: 0.26 ug/L M1
 RT: 5.712 min Scan# 1587
 Delta R.T. -0.006 min
 Lab File: V08161005A09.D
 Acq: 5 Oct 2016 1:11 pm

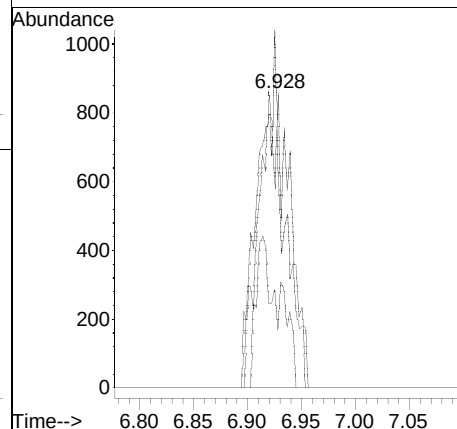
Tgt Ion:	62	Resp:	1387
Ion Ratio	Lower	Upper	
62	100		
64	18.5	10.9	50.9
98	0.0	0.0	23.4





#57
 1,4-Dioxane
 Concen: 101.65 ug/L M1
 RT: 6.928 min Scan# 2023
 Delta R.T. 0.003 min
 Lab File: V08161005A09.D
 Acq: 5 Oct 2016 1:11 pm

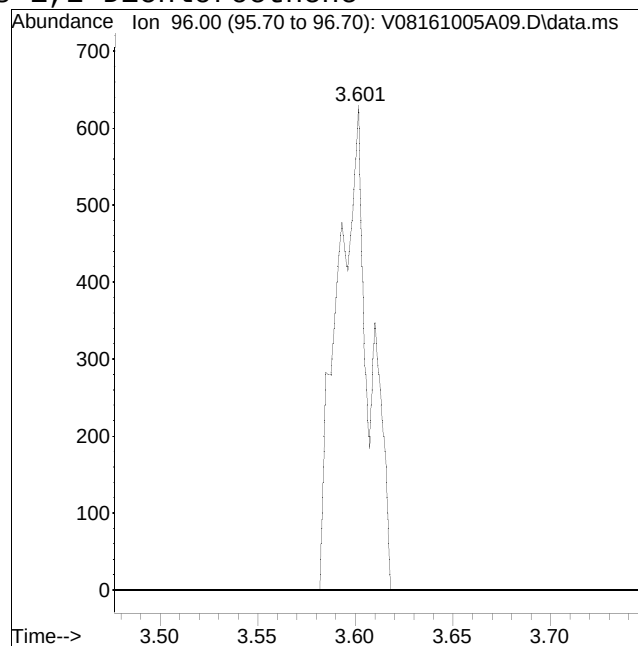
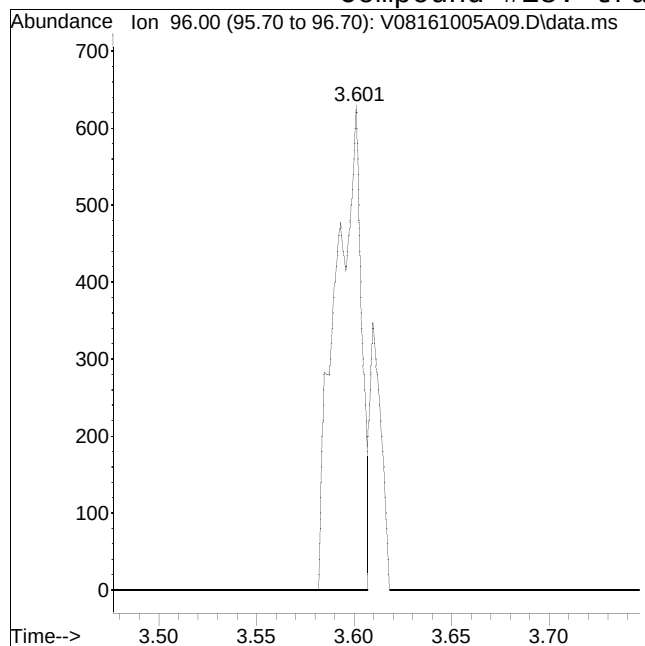
Tgt Ion:	88	Resp:	1773
Ion Ratio	Lower	Upper	
88	100		
58	86.9	70.8	106.2
43	25.5	29.3	43.9#



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A09.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 1:11 pm Instrument : VOA 108
Sample : l1630897-03,31,10,10,,c Quant Date : 10/5/2016 1:29 pm

Compound #18: trans-1,2-Dichloroethene



Original Peak Response = 582

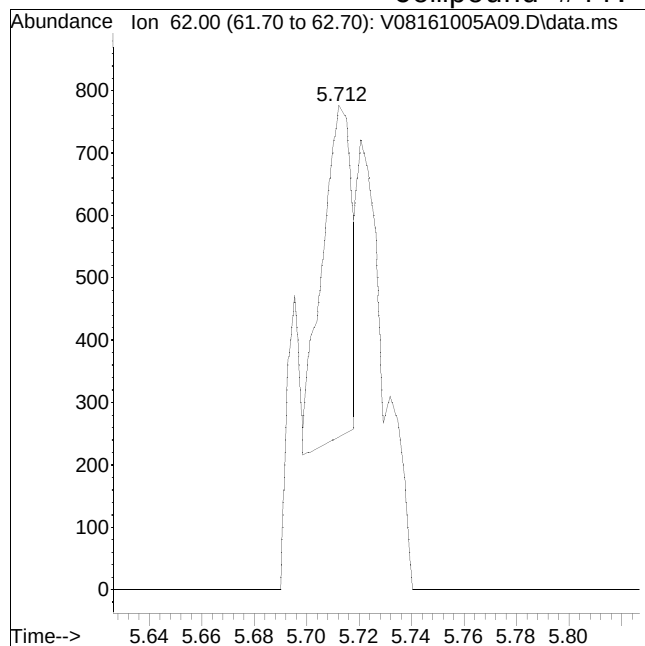
Manual Peak Response = 711 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

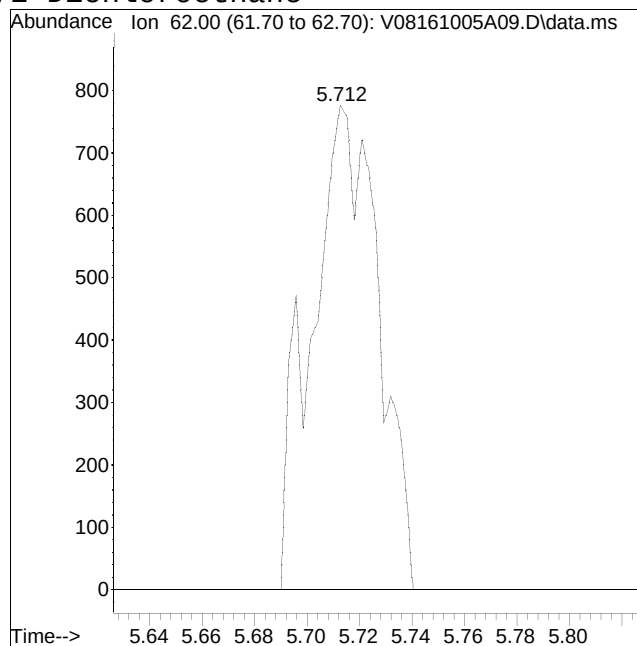
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A09.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 1:11 pm Instrument : VOA 108
Sample : l1630897-03,31,10,10,,c Quant Date : 10/5/2016 1:29 pm

Compound #44: 1,2-Dichloroethane



Original Peak Response = 428

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

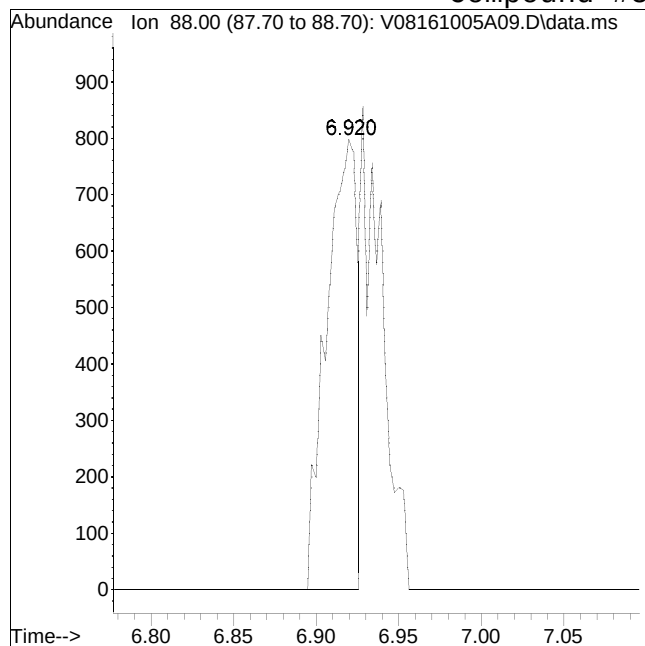


Manual Peak Response = 1387 M1

Manual Integration Report

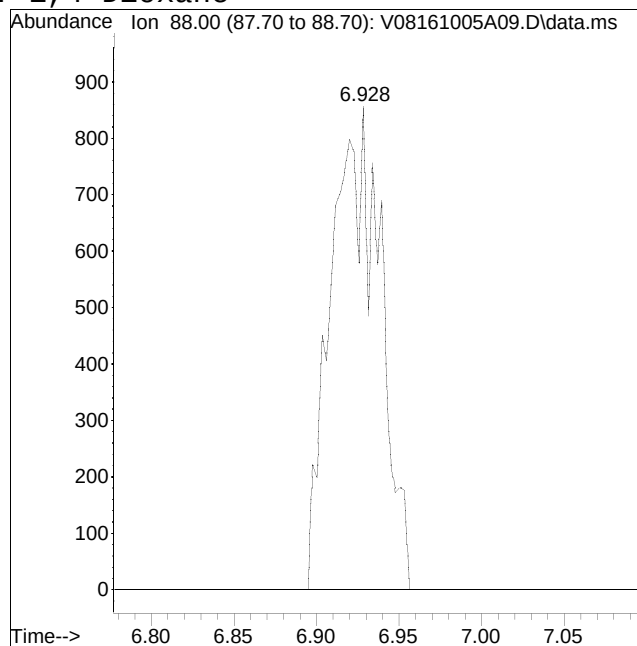
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A09.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 1:11 pm Instrument : VOA 108
Sample : l1630897-03,31,10,10,,c Quant Date : 10/5/2016 1:29 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 1022

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 1773 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A10.D
 Acq On : 5 Oct 2016 1:39 pm
 Operator : VOA108:PD
 Sample : l1630897-04,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 13:58:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	215913	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	83.54%		
59) Chlorobenzene-d5	9.427	117	143970	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	84.97%		
79) 1,4-Dichlorobenzene-d4	12.151	152	48982	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	67.82%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	52187	9.861	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.61%		
43) 1,2-Dichloroethane-d4	5.640	65	46062	9.139	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.39%		
60) Toluene-d8	7.592	98	192349	9.916	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.16%		
83) 4-Bromofluorobenzene	10.935	95	51927	10.850	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.50%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.736	62	27	N.D.		
5) Bromomethane	0.000		0	N.D. d		
6) Chloroethane	2.307	64	707	0.177	ug/L	92
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.932	76	9621	0.665	ug/L	99
15) Methylene chloride	3.448	84	175	Below Cal	#	49
17) Acetone	3.504	43	3324	4.587	ug/L	94
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	3.693	73	6274	0.939	ug/L #	78
23) 1,1-Dichloroethane	4.167	63	26	N.D.		
25) Acrylonitrile	0.000		0	N.D. d		
27) Vinyl acetate	4.427	43	370	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A10.D
 Acq On : 5 Oct 2016 1:39 pm
 Operator : VOA108:PD
 Sample : l1630897-04,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 13:58:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D. d		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.503	78	3350	0.162	ug/L #	63
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.203	95	127	N.D.		
50) Dibromomethane	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D. d		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.650	92	17039	1.377	ug/L	99
62) 4-Methyl-2-pentanone	0.000		0	N.D. d		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
70) 1,3-Dichloropropane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D. d		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.485	91	2059	0.090	ug/L #	66
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	9.675	106	258	N.D.		
77) o Xylene	10.208	106	90	N.D.		
78) Styrene	10.291	104	314	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.606	105	114	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	11.083	91	26	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	11.223	105	499	N.D.		
89) 2-Chlorotoluene	11.251	91	134	N.D.		
90) 1,3,5-Trimethylbenzene	11.329	105	434	N.D.		
91) 1,2,3-Trichloropropane	0.000		0	N.D.		
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
93) 4-Chlorotoluene	11.451	91	251	N.D.		
94) tert-Butylbenzene	11.663	119	94	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A10.D
 Acq On : 5 Oct 2016 1:39 pm
 Operator : VOA108:PD
 Sample : l1630897-04,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 13:58:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.744	105	215		N.D.	
98)	sec-Butylbenzene	11.850	105	176		N.D.	
99)	p-Isopropyltoluene	12.012	119	34		N.D.	
100)	1,3-Dichlorobenzene	12.076	146	85		N.D.	
101)	1,4-Dichlorobenzene	12.168	146	331		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.606	146	171		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

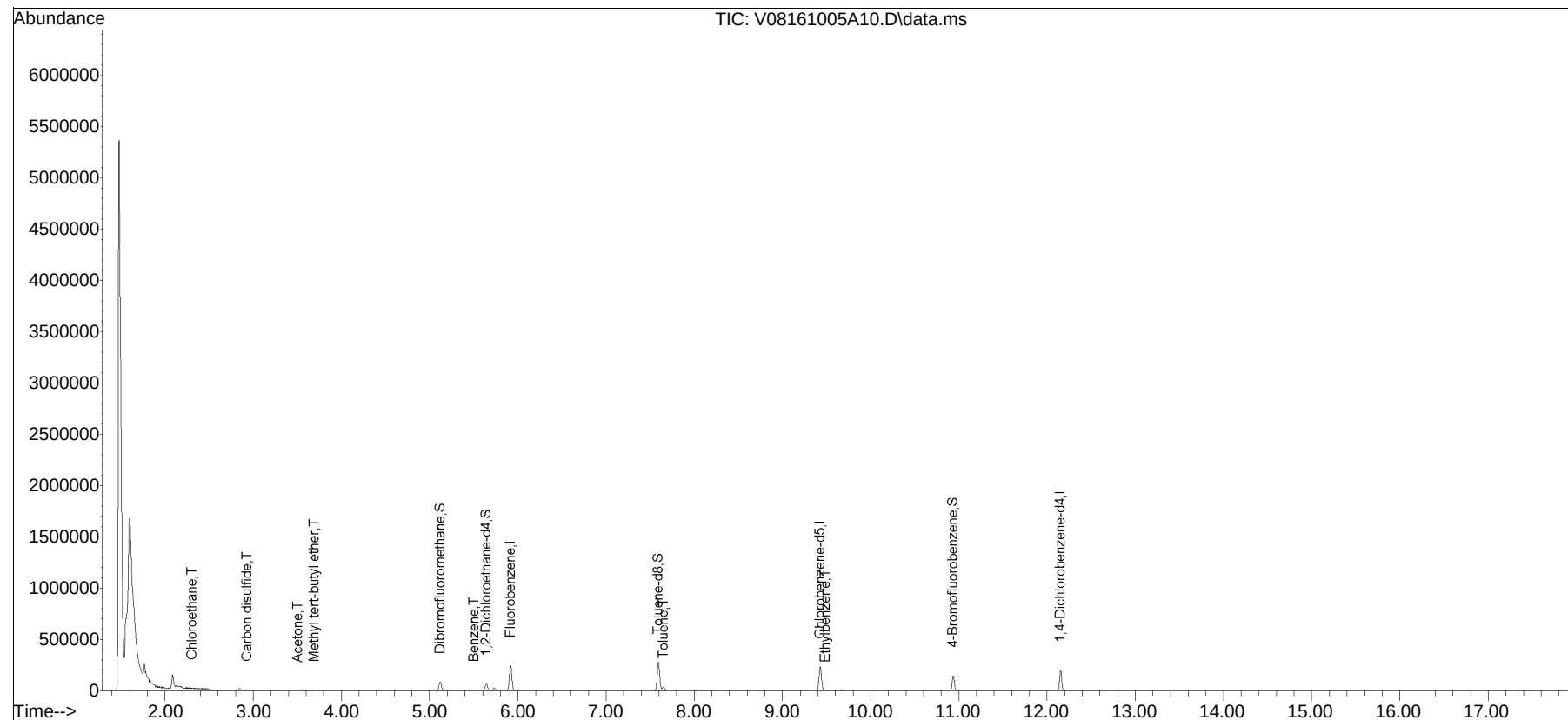
(#) = qualifier out of range (m) = manual integration (+) = signals summed

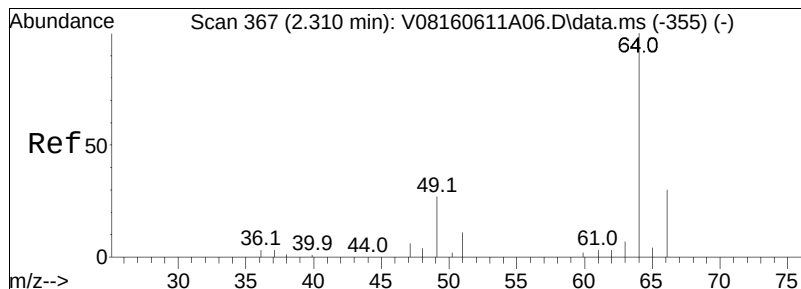
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A10.D
 Acq On : 5 Oct 2016 1:39 pm
 Operator : VOA108:PD
 Sample : l1630897-04,31,10,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 05 13:58:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

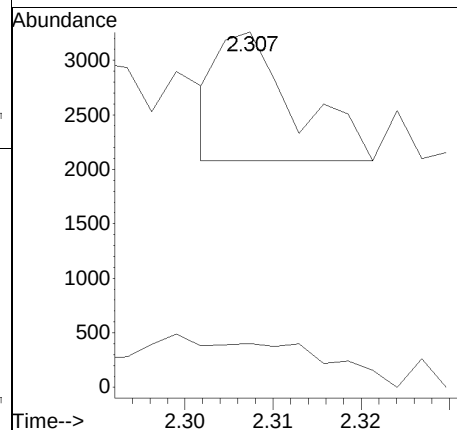
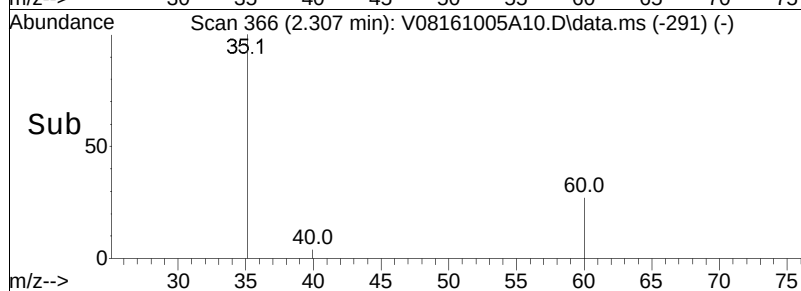
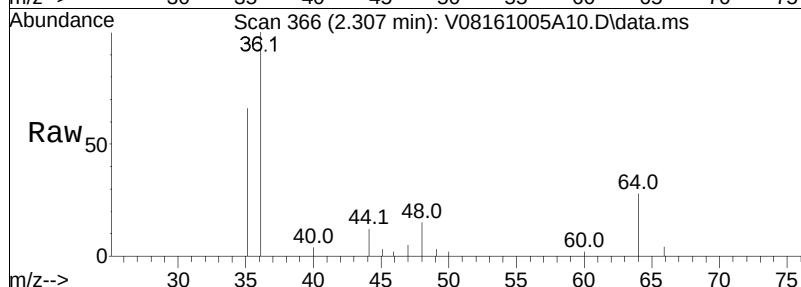
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•

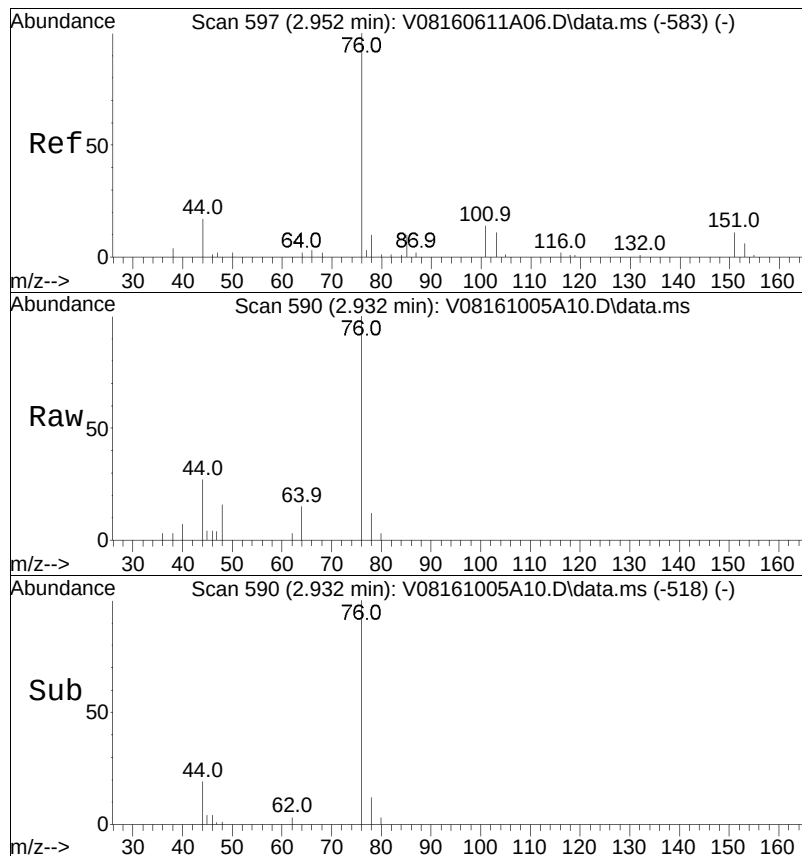




#6
 Chloroethane
 Concen: 0.18 ug/L
 RT: 2.307 min Scan# 366
 Delta R.T. 0.008 min
 Lab File: V08161005A10.D
 Acq: 5 Oct 2016 1:39 pm

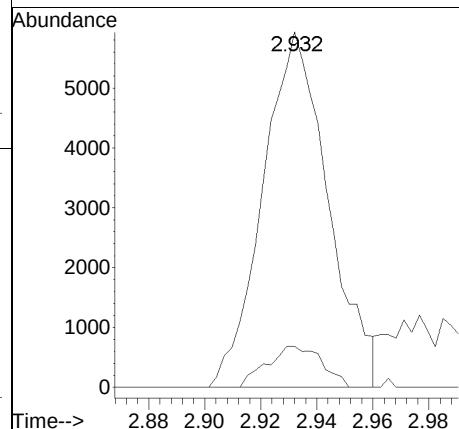
Tgt Ion: 64 Resp: 707
 Ion Ratio Lower Upper
 64 100
 66 24.8 9.1 49.1

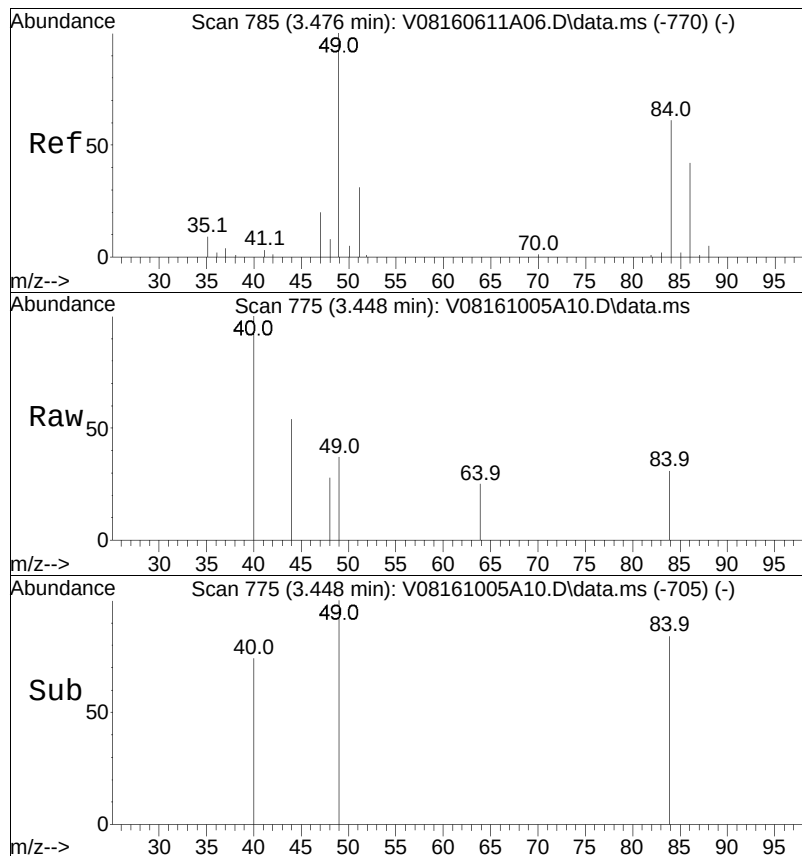




#11
Carbon disulfide
Concen: 0.66 ug/L
RT: 2.932 min Scan# 590
Delta R.T. 0.000 min
Lab File: V08161005A10.D
Acq: 5 Oct 2016 1:39 pm

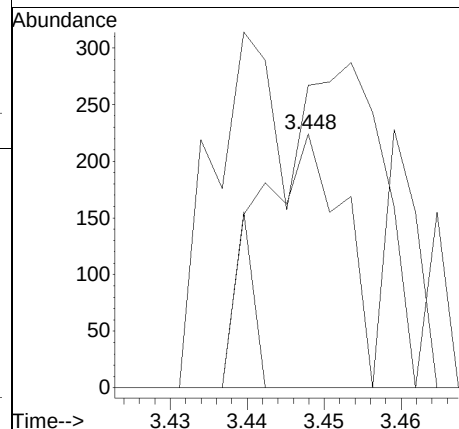
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.6	13.8

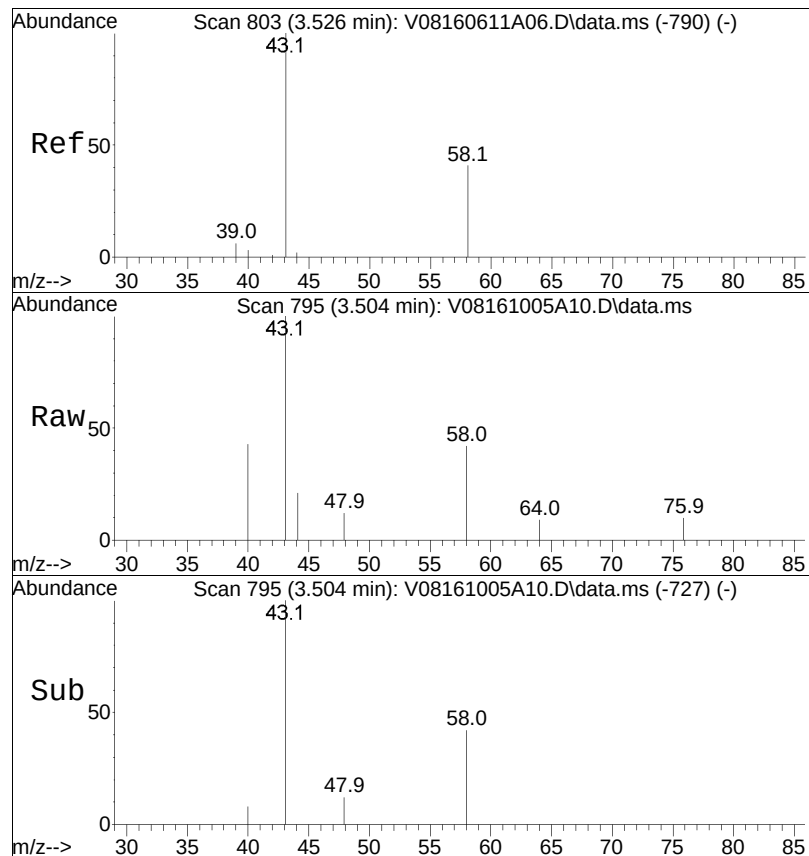




#15
 Methylene chloride
 Concen: Below Cal
 RT: 3.448 min Scan# 775
 Delta R.T. -0.006 min
 Lab File: V08161005A10.D
 Acq: 5 Oct 2016 1:39 pm

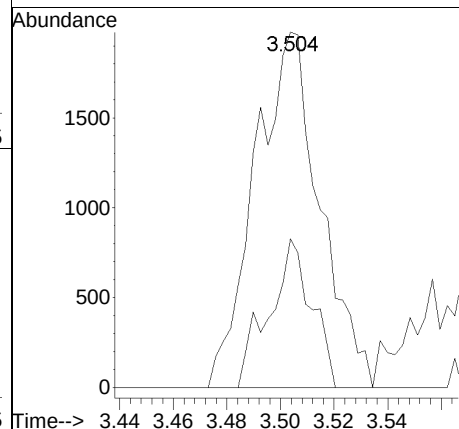
Tgt Ion:	84	Resp:	175
Ion Ratio	Lower	Upper	
84	100		
86	0.0	41.7	86.7#
49	132.0	124.3	258.1

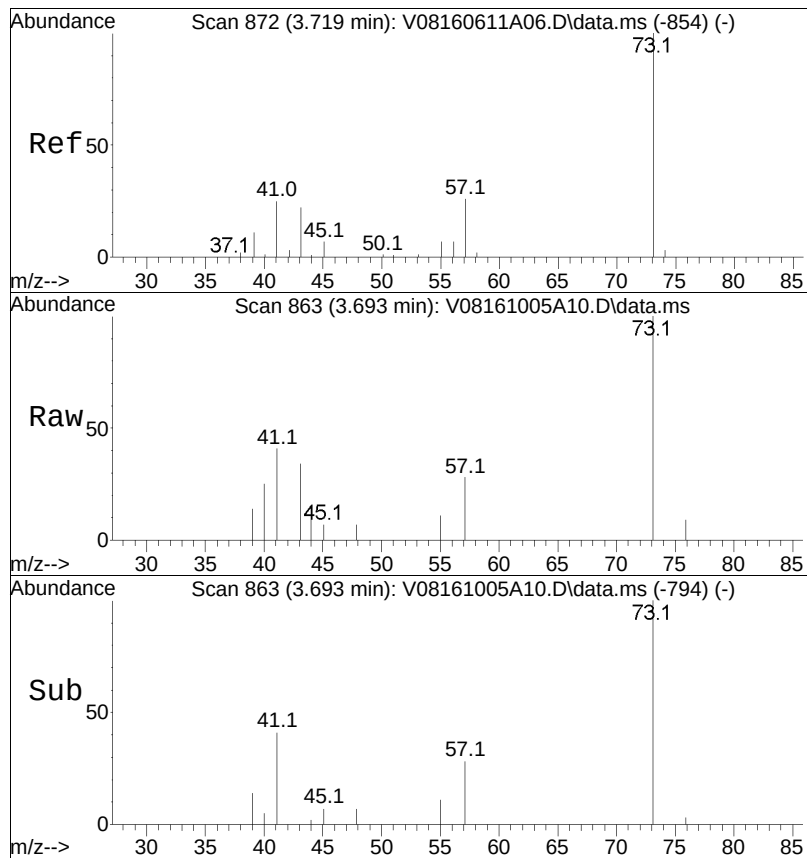




#17
Acetone
Concen: 4.59 ug/L
RT: 3.504 min Scan# 795
Delta R.T. -0.011 min
Lab File: V08161005A10.D
Acq: 5 Oct 2016 1:39 pm

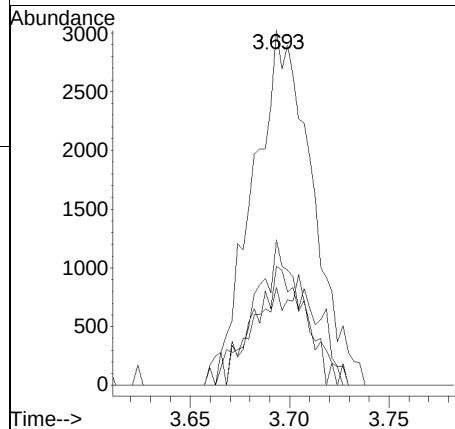
Tgt Ion:	43	58	Ratio	100	27.4	Resp:	3324	Lower	Upper
								24.5	36.7

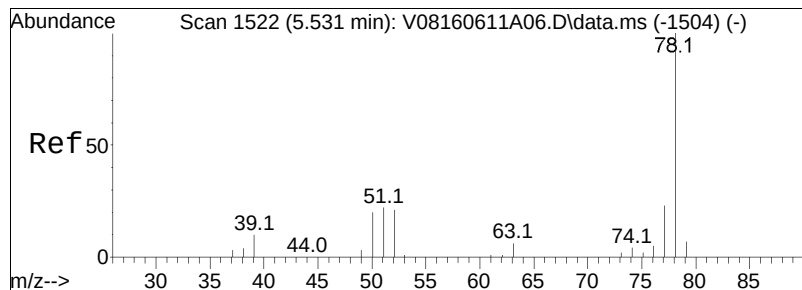




#20
Methyl tert-butyl ether
Concen: 0.94 ug/L
RT: 3.693 min Scan# 863
Delta R.T. -0.009 min
Lab File: V08161005A10.D
Acq: 5 Oct 2016 1:39 pm

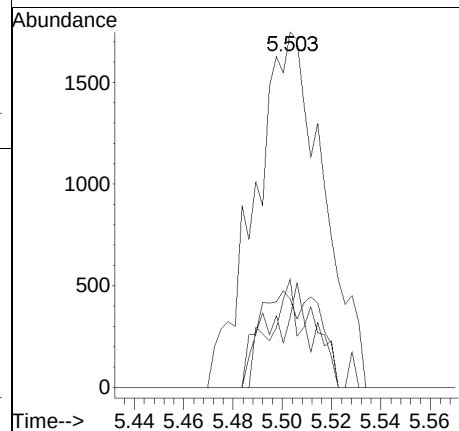
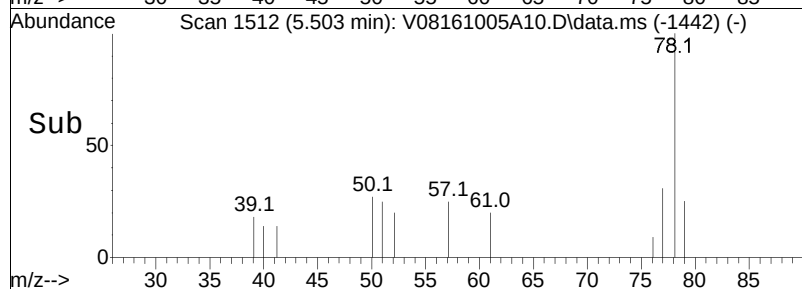
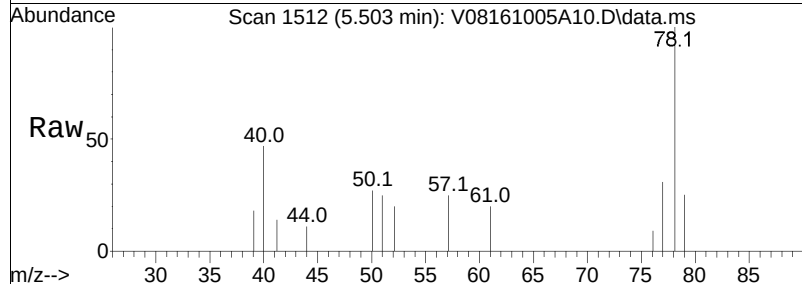
Tgt Ion:	73	Resp:	6274
Ion Ratio	Lower	Upper	
73	100		
57	15.0	21.4	44.4#
43	28.4	8.1	16.9#
41	37.1	21.7	45.1

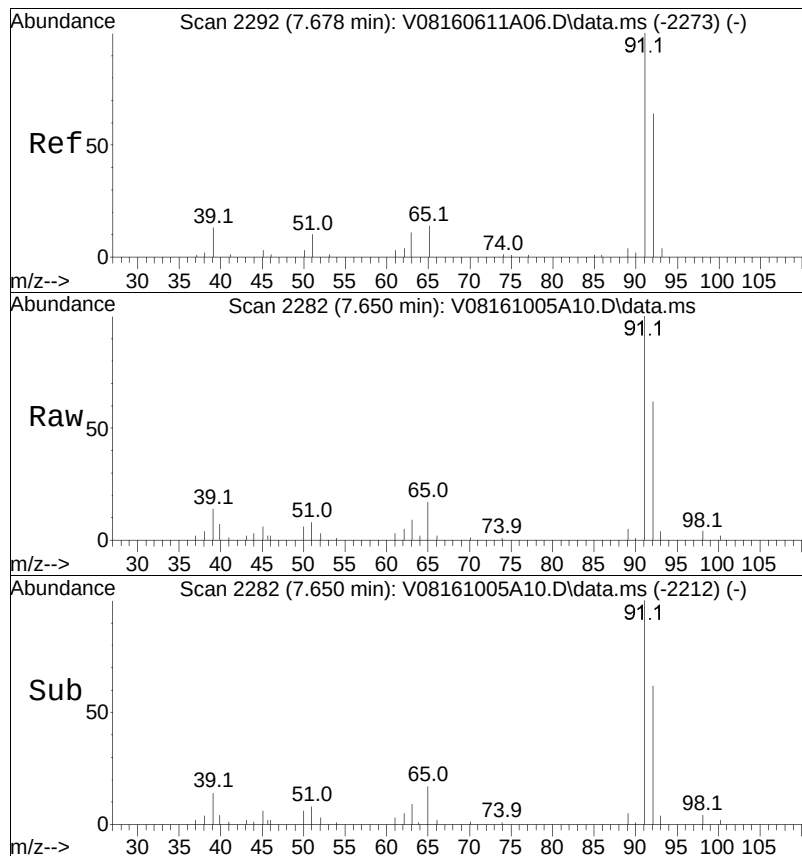




#41
Benzene
Concen: 0.16 ug/L
RT: 5.503 min Scan# 1512
Delta R.T. -0.006 min
Lab File: V08161005A10.D
Acq: 5 Oct 2016 1:39 pm

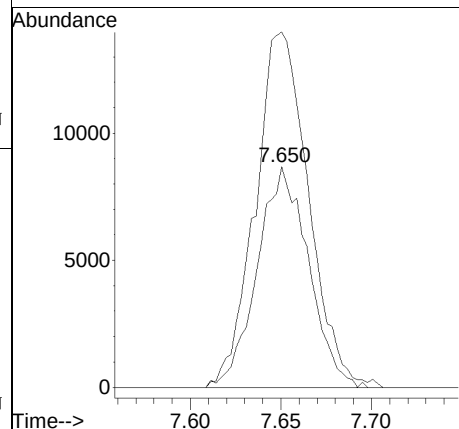
Tgt Ion:	78	Resp:	3350
Ion Ratio	Lower	Upper	
78	100		
77	13.0	14.9	30.9#
51	0.0	15.7	32.7#
52	4.0	15.8	32.8#

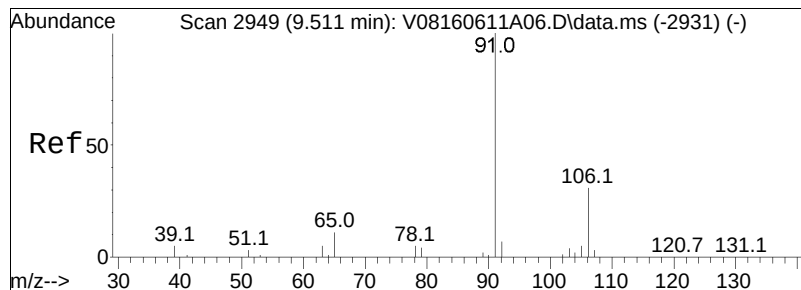




#61
 Toluene
 Concen: 1.38 ug/L
 RT: 7.650 min Scan# 2282
 Delta R.T. -0.006 min
 Lab File: V08161005A10.D
 Acq: 5 Oct 2016 1:39 pm

Tgt Ion	Ratio	Lower	Upper
92	100		
91	167.6	132.6	198.8





#74

Ethylbenzene

Concen: 0.09 ug/L

RT: 9.485 min Scan# 2940

Delta R.T. -0.009 min

Lab File: V08161005A10.D

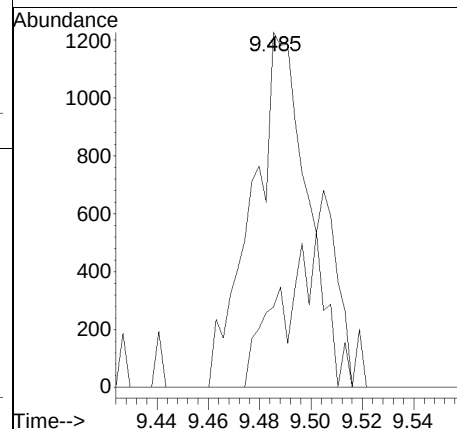
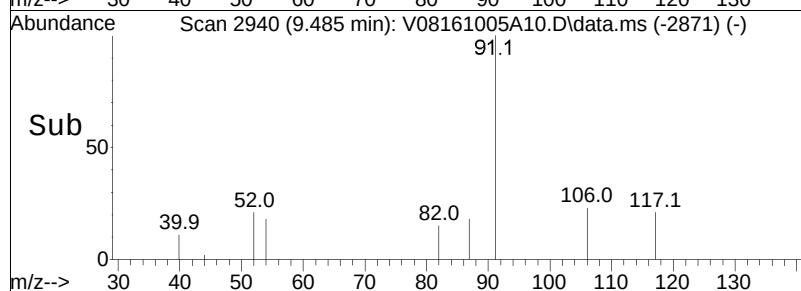
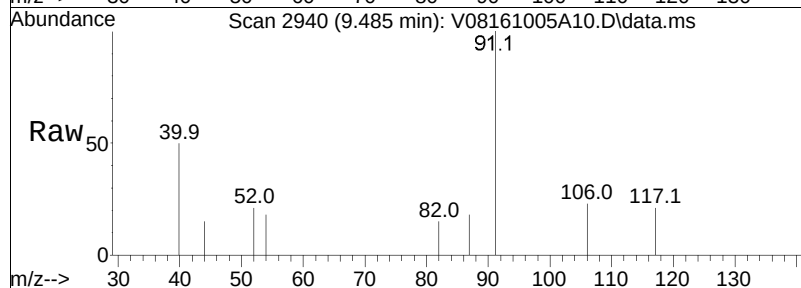
Acq: 5 Oct 2016 1:39 pm

Tgt Ion: 91 Resp: 2059

Ion Ratio Lower Upper

91 100

106 11.5 24.2 36.2#



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161005A10.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 1:39 pm Instrument : VOA 108
Sample : l1630897-04,31,10,10,,c Quant Date : 10/5/2016 1:57 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A12.D
 Acq On : 5 Oct 2016 2:35 pm
 Operator : VOA108:PK
 Sample : l1630897-06,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 18:23:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	213391	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	82.56%		
59) Chlorobenzene-d5	9.429	117	144005	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	84.99%		
79) 1,4-Dichlorobenzene-d4	12.151	152	44227	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	61.24%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	53829	10.291	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.91%		
43) 1,2-Dichloroethane-d4	5.643	65	47252	9.486	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.86%		
60) Toluene-d8	7.595	98	195998	10.101	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.01%		
83) 4-Bromofluorobenzene	10.938	95	49118	11.367	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.67%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.018	76	267	N.D.		
15) Methylene chloride	3.456	84	29	Below Cal	#	1
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A12.D
 Acq On : 5 Oct 2016 2:35 pm
 Operator : VOA108:PK
 Sample : 11630897-06,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 18:23:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.503	78	35		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	6.928	88	3775M1	222.593	ug/L	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.441	91	26		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.672	106	26		N.D.	
77) o Xylene	10.221	106	57		N.D.	
78) Styrene	10.291	104	37		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.598	105	26		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.092	91	219		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.228	105	180		N.D.	
89) 2-Chlorotoluene	11.262	91	262		N.D.	
90) 1,3,5-Trimethylbenzene	11.320	105	223		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.448	91	41		N.D.	
94) tert-Butylbenzene	11.669	119	48		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A12.D
 Acq On : 5 Oct 2016 2:35 pm
 Operator : VOA108:PK
 Sample : l1630897-06,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 18:23:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.747	105	114		N.D.	
98)	sec-Butylbenzene	11.850	105	95		N.D.	
99)	p-Isopropyltoluene	12.017	119	28		N.D.	
100)	1,3-Dichlorobenzene	12.076	146	74		N.D.	
101)	1,4-Dichlorobenzene	12.174	146	228		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.597	146	72		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

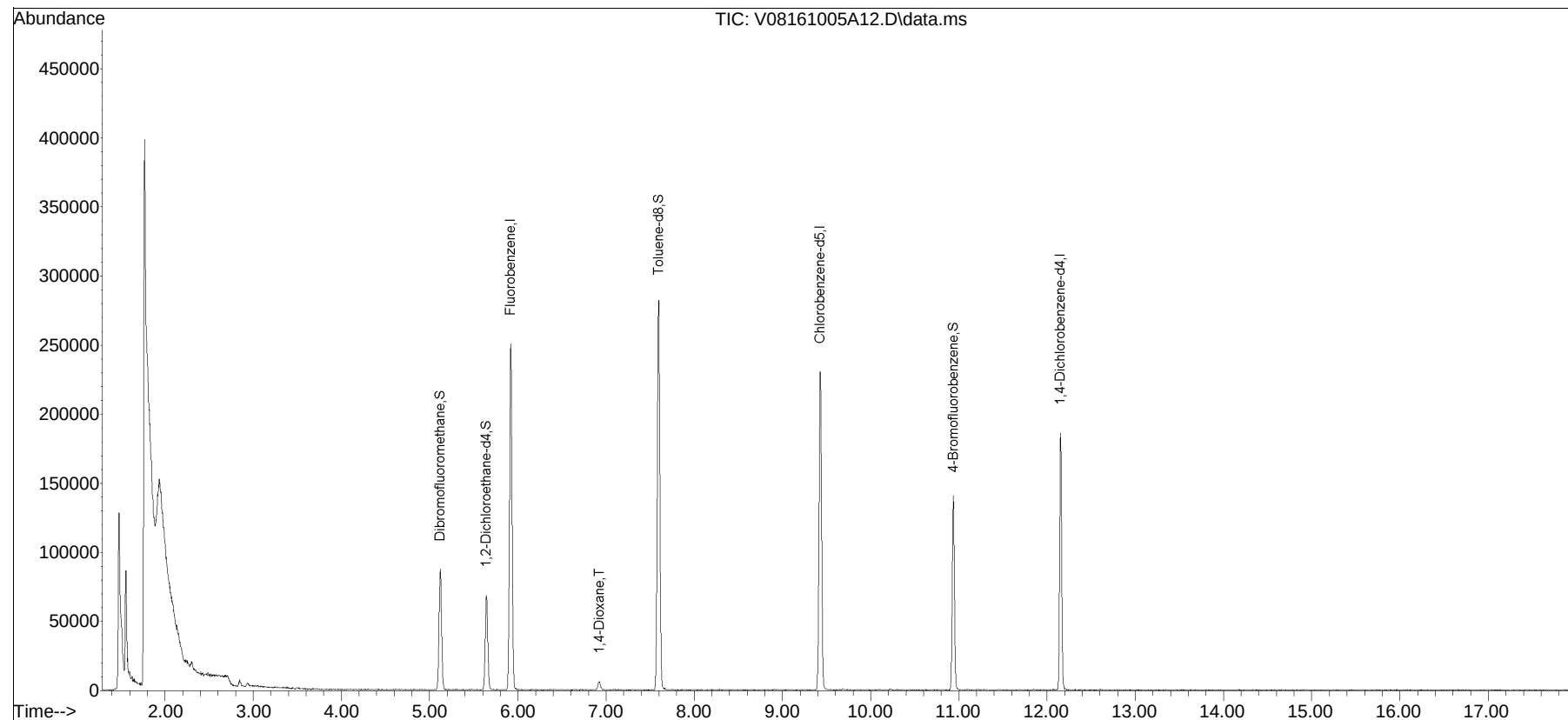
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

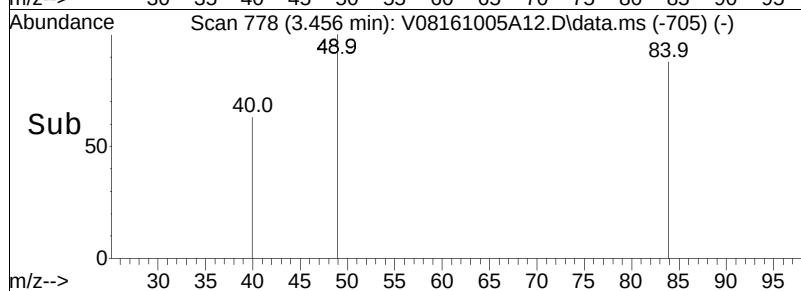
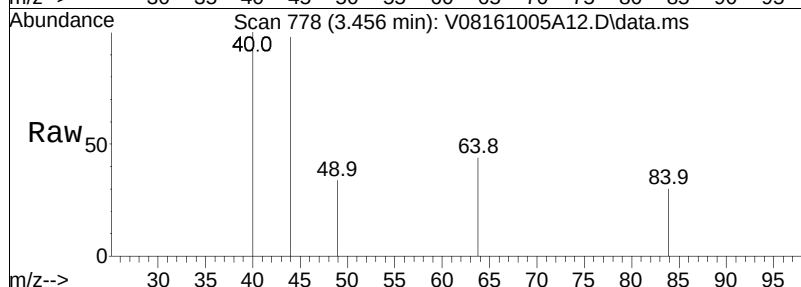
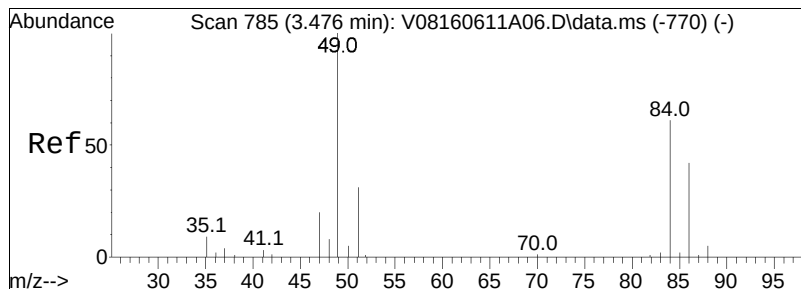
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A12.D
 Acq On : 5 Oct 2016 2:35 pm
 Operator : VOA108:PK
 Sample : l1630897-06,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 18:23:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

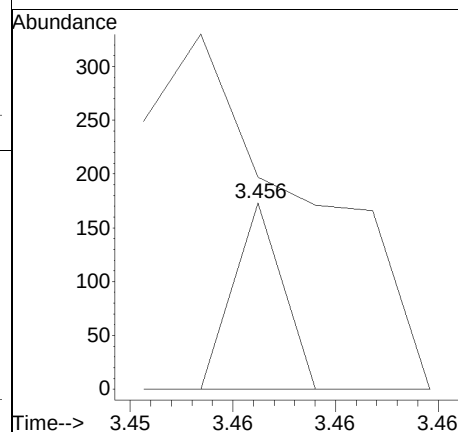
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•

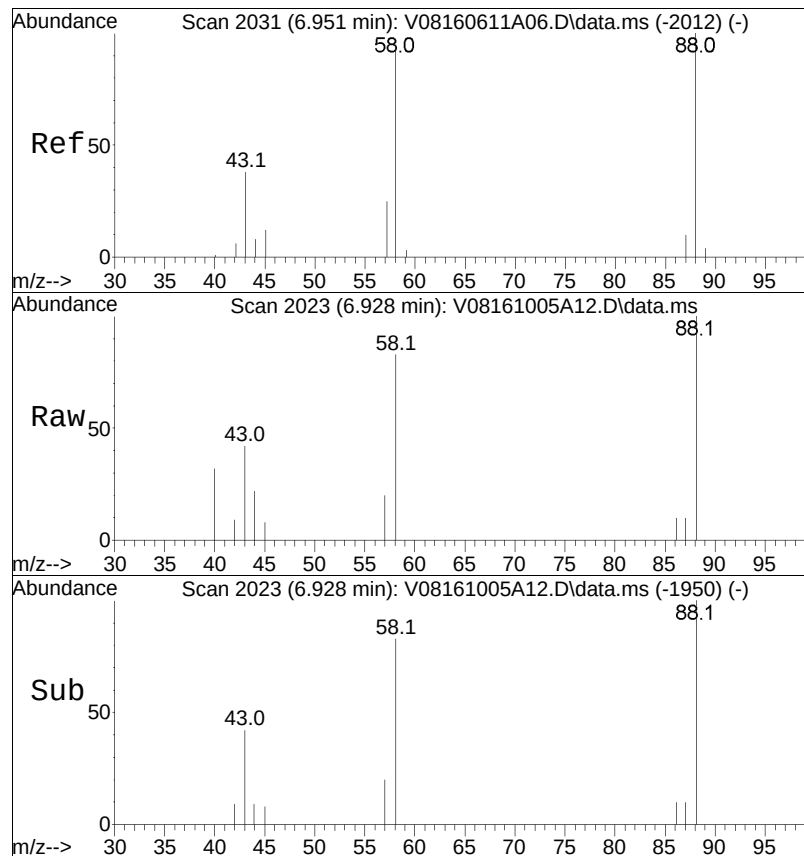




#15
Methylene chloride
Concen: Below Cal
RT: 3.456 min Scan# 778
Delta R.T. 0.002 min
Lab File: V08161005A12.D
Acq: 5 Oct 2016 2:35 pm

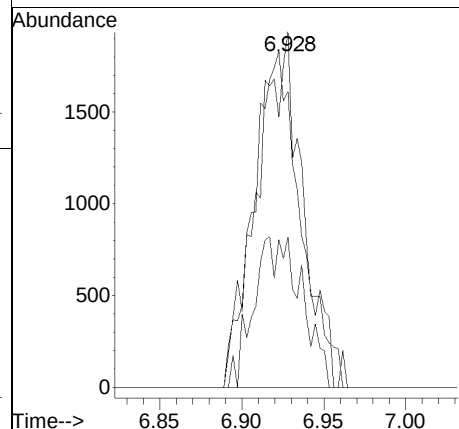
Tgt Ion: 84 Resp: 29
Ion Ratio Lower Upper
84 100
86 0.0 41.7 86.7#
49 1075.9 124.3 258.1#





#57
 1,4-Dioxane
 Concen: 222.59 ug/L M1
 RT: 6.928 min Scan# 2023
 Delta R.T. 0.003 min
 Lab File: V08161005A12.D
 Acq: 5 Oct 2016 2:35 pm

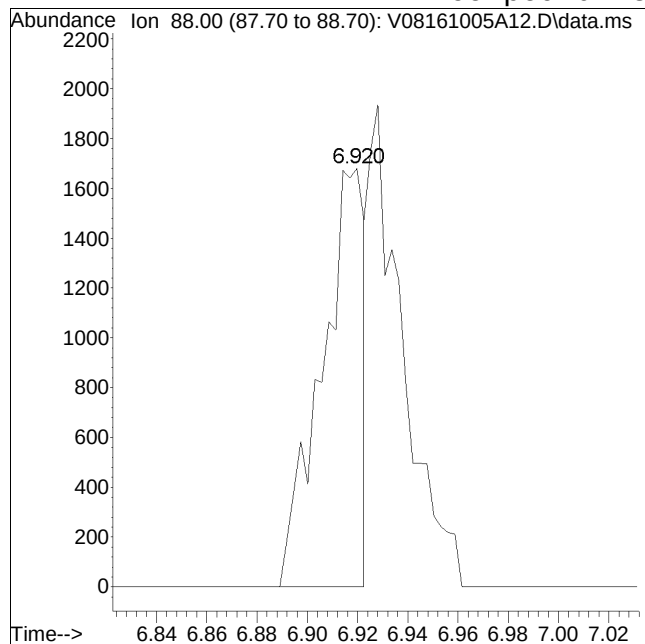
Tgt Ion:	88	Resp:	3775
Ion Ratio	Lower	Upper	
88	100		
58	90.4	70.8	106.2
43	20.3	29.3	43.9#



Manual Integration Report

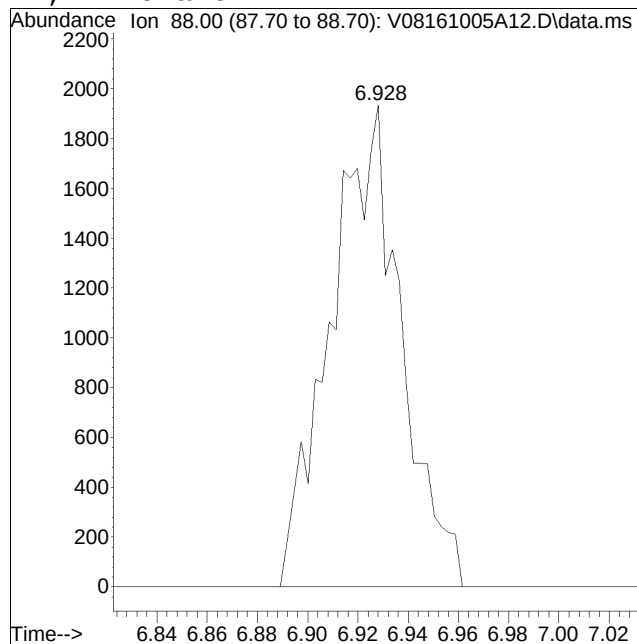
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A12.D Operator : VOA108:PK
Date Inj'd : 10/5/2016 2:35 pm Instrument : VOA 108
Sample : l1630897-06,31,10,10,,b Quant Date : 10/5/2016 6:21 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 1971

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 3775 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A13.D
 Acq On : 5 Oct 2016 3:03 pm
 Operator : VOA108:PK
 Sample : l1630897-07,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 18:24:05 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.921	96	217562	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	84.17%		
59) Chlorobenzene-d5	9.429	117	146165	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	86.26%		
79) 1,4-Dichlorobenzene-d4	12.151	152	44663	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	61.84%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	54534	10.226	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.26%		
43) 1,2-Dichloroethane-d4	5.642	65	48755	9.600	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.00%		
60) Toluene-d8	7.595	98	198348	10.071	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.71%		
83) 4-Bromofluorobenzene	10.938	95	49470	11.336	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.36%		
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.929	76	796	N.D.		
15) Methylene chloride	3.451	84	201	Below Cal		80
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A13.D
 Acq On : 5 Oct 2016 3:03 pm
 Operator : VOA108:PK
 Sample : l1630897-07,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 18:24:05 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.500	78	72		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.653	92	28		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.443	91	25		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.669	106	32		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	10.299	104	85		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.091	91	437		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.320	105	140		N.D.	
89) 2-Chlorotoluene	11.262	91	123		N.D.	
90) 1,3,5-Trimethylbenzene	11.320	105	140		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.451	91	100		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A13.D
 Acq On : 5 Oct 2016 3:03 pm
 Operator : VOA108:PK
 Sample : l1630897-07,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 18:24:05 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.744	105	171		N.D.	
98)	sec-Butylbenzene	11.853	105	120		N.D.	
99)	p-Isopropyltoluene	12.014	119	77		N.D.	
100)	1,3-Dichlorobenzene	12.079	146	126		N.D.	
101)	1,4-Dichlorobenzene	12.171	146	263		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

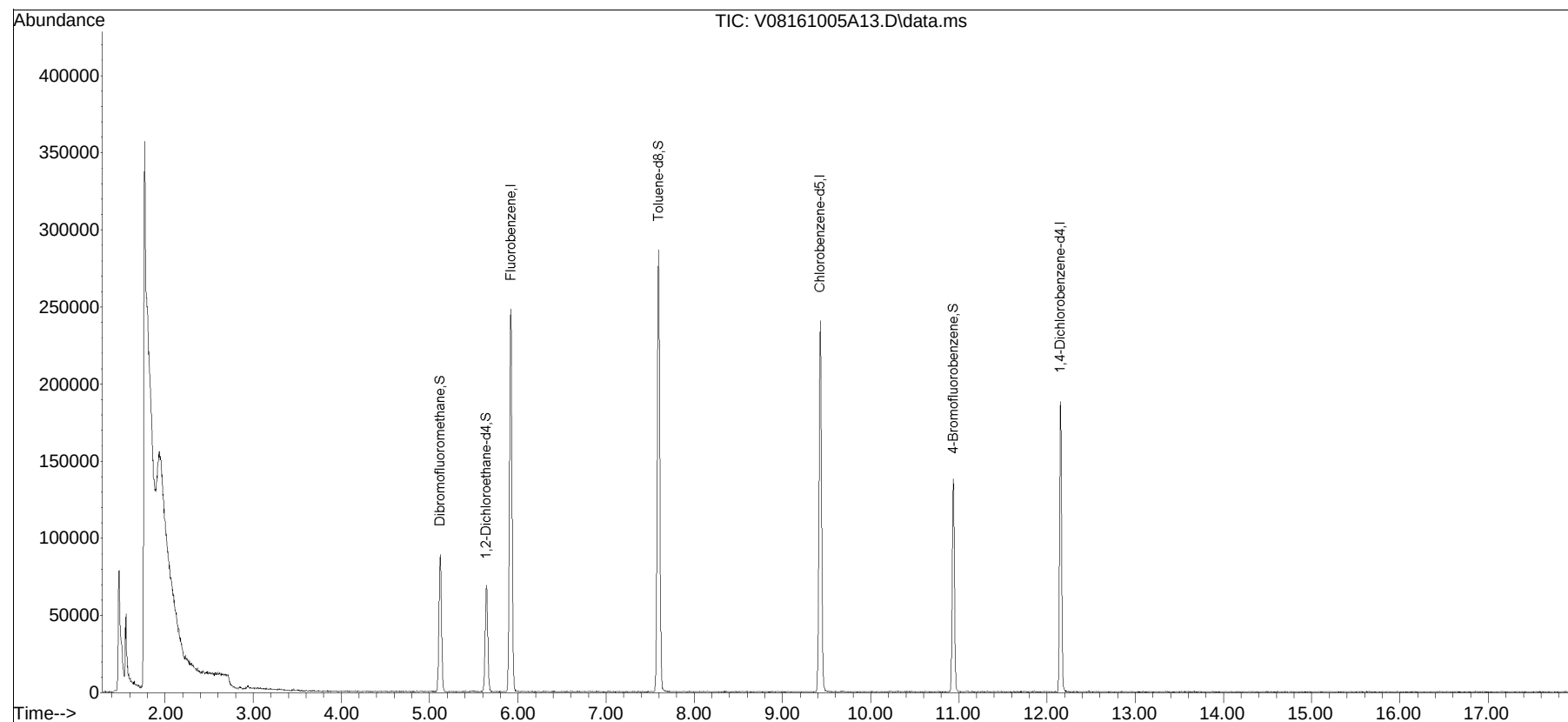
(#) = qualifier out of range (m) = manual integration (+) = signals summed

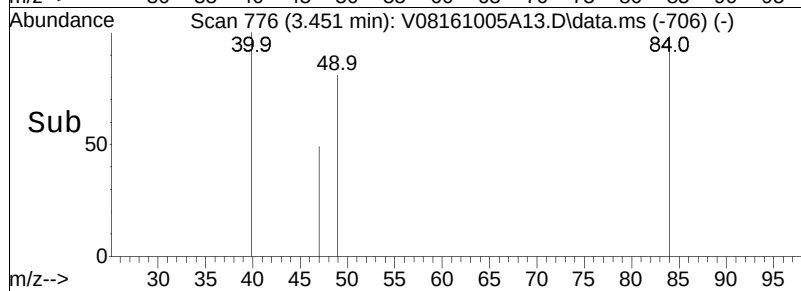
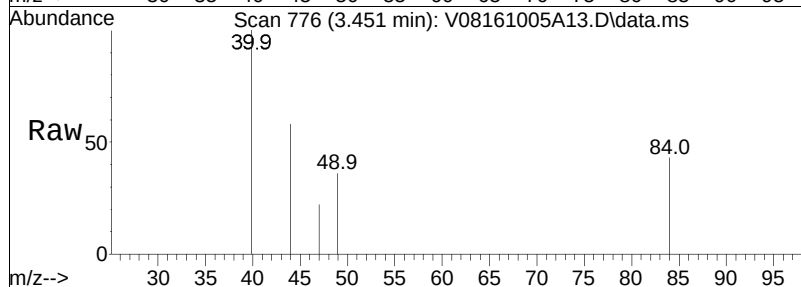
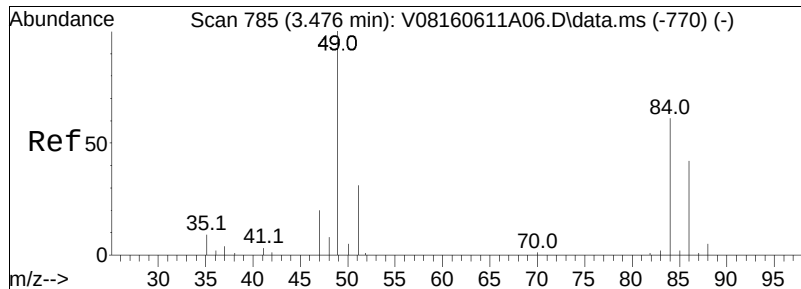
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A13.D
 Acq On : 5 Oct 2016 3:03 pm
 Operator : VOA108:PK
 Sample : l1630897-07,31,10,10,,b
 Misc : WG939161,ICAL12737
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 05 18:24:05 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

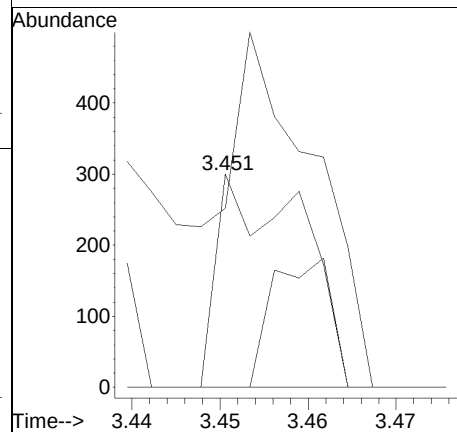
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•





#15
Methylene chloride
Concen: Below Cal
RT: 3.451 min Scan# 776
Delta R.T. -0.003 min
Lab File: V08161005A13.D
Acq: 5 Oct 2016 3:03 pm

Tgt Ion: 84 Resp: 201
Ion Ratio Lower Upper
84 100
86 41.8 41.7 86.7
49 165.2 124.3 258.1



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161005A13.D Operator : VOA108:PK
Date Inj'd : 10/5/2016 3:03 pm Instrument : VOA 108
Sample : l1630897-07,31,10,10,,b Quant Date : 10/5/2016 6:22 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A06.D
 Acq On : 6 Oct 2016 11:43 am
 Operator : VOA108:PD
 Sample : 11630897-01D, 31, 1, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 12:27:15 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	257240	10.000	ug/L	0.00
Standard Area 1 = 246373			Recovery =	104.41%		
59) Chlorobenzene-d5	9.424	117	171413	10.000	ug/L	-0.01
Standard Area 1 = 160139			Recovery =	107.04%		
79) 1,4-Dichlorobenzene-d4	12.154	152	55066	10.000	ug/L	0.00
Standard Area 1 = 67154			Recovery =	82.00%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	60433	9.584	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.84%		
43) 1,2-Dichloroethane-d4	5.643	65	54299	9.042	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.42%		
60) Toluene-d8	7.595	98	233587	10.114	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.14%		
83) 4-Bromofluorobenzene	10.935	95	63054	11.720	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	117.20%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.875	62	70	N.D.		
5) Bromomethane	2.185	94	1129	0.634	ug/L	91
6) Chloroethane	2.305	64	154447	32.520	ug/L	96
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.935	76	5618	0.326	ug/L #	89
15) Methylene chloride	3.456	84	195	Below Cal	#	1
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	3.601	96	255	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	4.173	63	5092	0.389	ug/L	79
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.681	96	589	0.094	ug/L #	49
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A06.D
 Acq On : 6 Oct 2016 11:43 am
 Operator : VOA108:PD
 Sample : 11630897-01D, 31, 1, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 12:27:15 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.244	43	31		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.509	78	121		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	6.920	88	1748	85.501	ug/L #	71
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.648	92	201		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	8.088	166	26		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.446	112	395		N.D.	
74) Ethylbenzene	9.483	91	596		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.483	106	70		N.D.	
77) o Xylene	10.222	106	830	0.085	ug/L #	39
78) Styrene	10.291	104	509		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.606	105	557		N.D.	
84) Bromobenzene	0.000		0		N.D.	d
85) n-Propylbenzene	11.092	91	903		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.220	105	788		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	d
90) 1,3,5-Trimethylbenzene	11.329	105	382		N.D.	
91) 1,2,3-Trichloropropane	11.449	75	26		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	d
94) tert-Butylbenzene	11.663	119	549		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A06.D
 Acq On : 6 Oct 2016 11:43 am
 Operator : VOA108:PD
 Sample : l1630897-01D, 31, 1, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 12:27:15 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.767	105	68	N.D.		
98)	sec-Butylbenzene	11.856	105	809	N.D.		
99)	p-Isopropyltoluene	12.017	119	527	N.D.		
100)	1,3-Dichlorobenzene	12.073	146	441	N.D.		
101)	1,4-Dichlorobenzene	12.168	146	905	0.125 ug/L	#	58
102)	p-Diethylbenzene	0.000		0	N.D.	d	
103)	n-Butylbenzene	0.000		0	N.D.	d	
104)	1,2-Dichlorobenzene	12.598	146	641	0.109 ug/L		81
105)	1,2,4,5-Tetramethylben...	0.000		0	N.D.	d	
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	0.000		0	N.D.	d	
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
110)	Naphthalene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.	d	

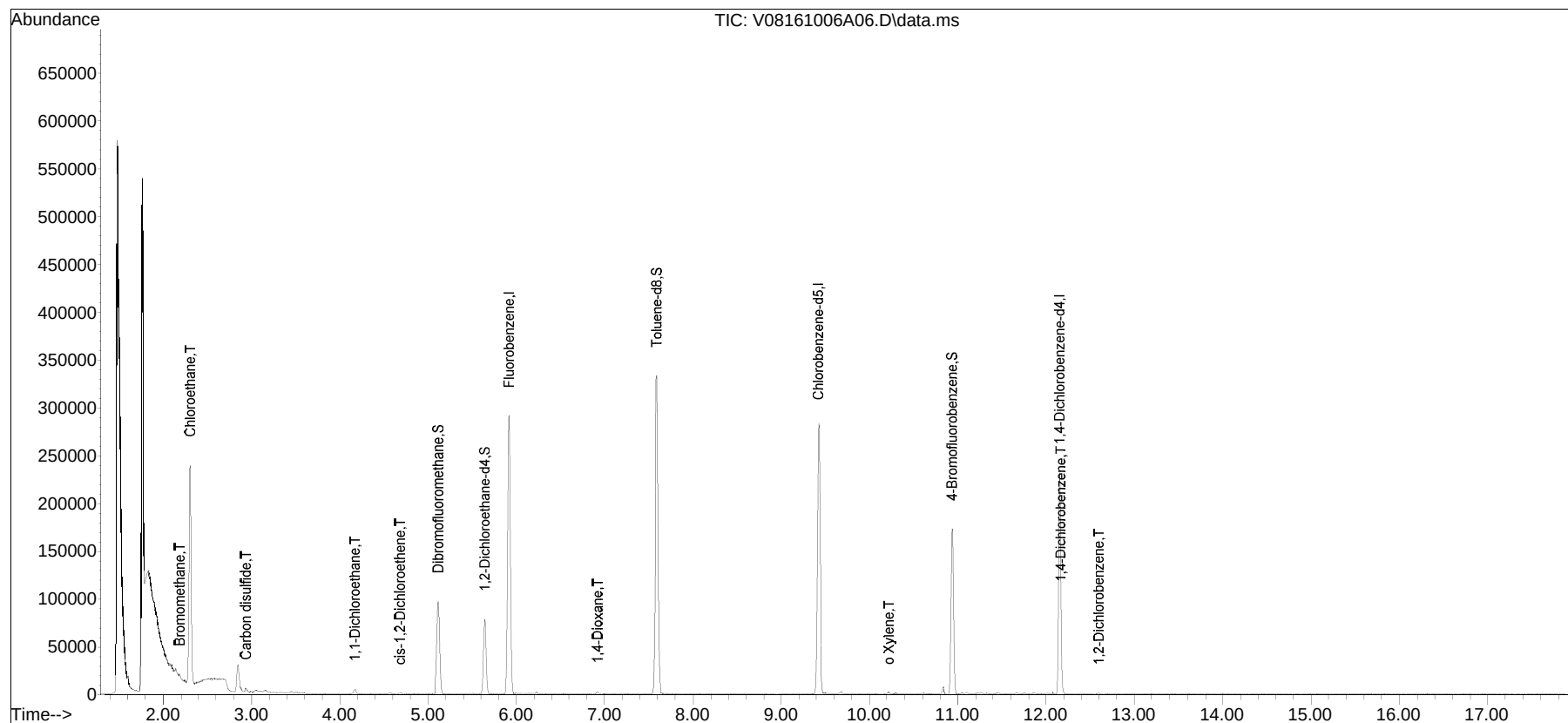
(#) = qualifier out of range (m) = manual integration (+) = signals summed

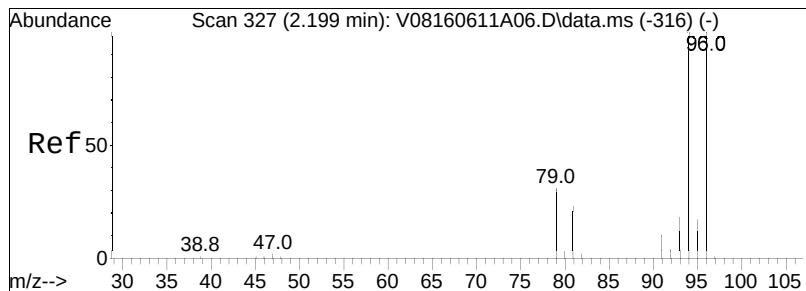
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A06.D
 Acq On : 6 Oct 2016 11:43 am
 Operator : VOA108:PD
 Sample : l1630897-01D,31,1,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 06 12:27:15 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

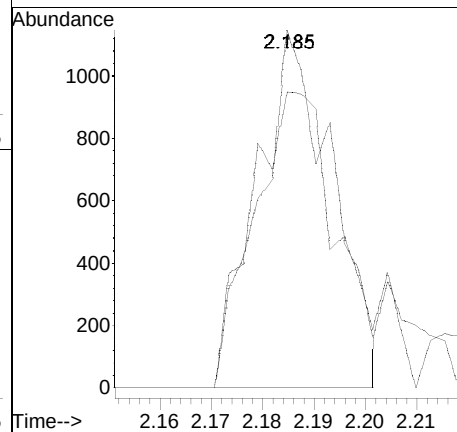
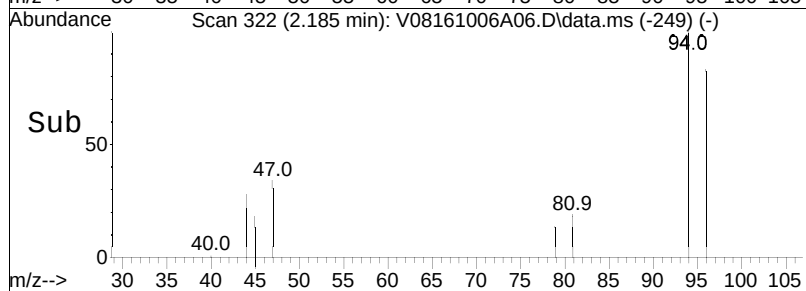
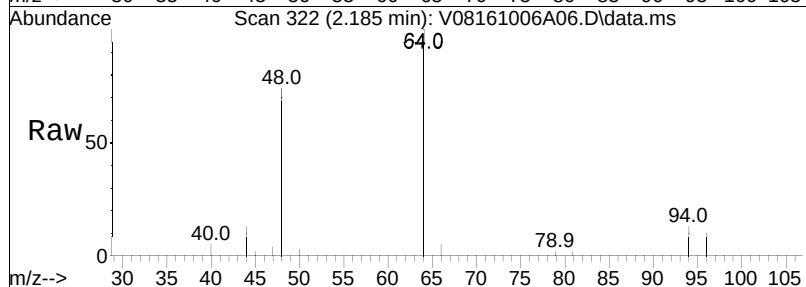
Sub List : 8260-NYTCL - Megamix plus Diox61006A\V08161006A02.D•

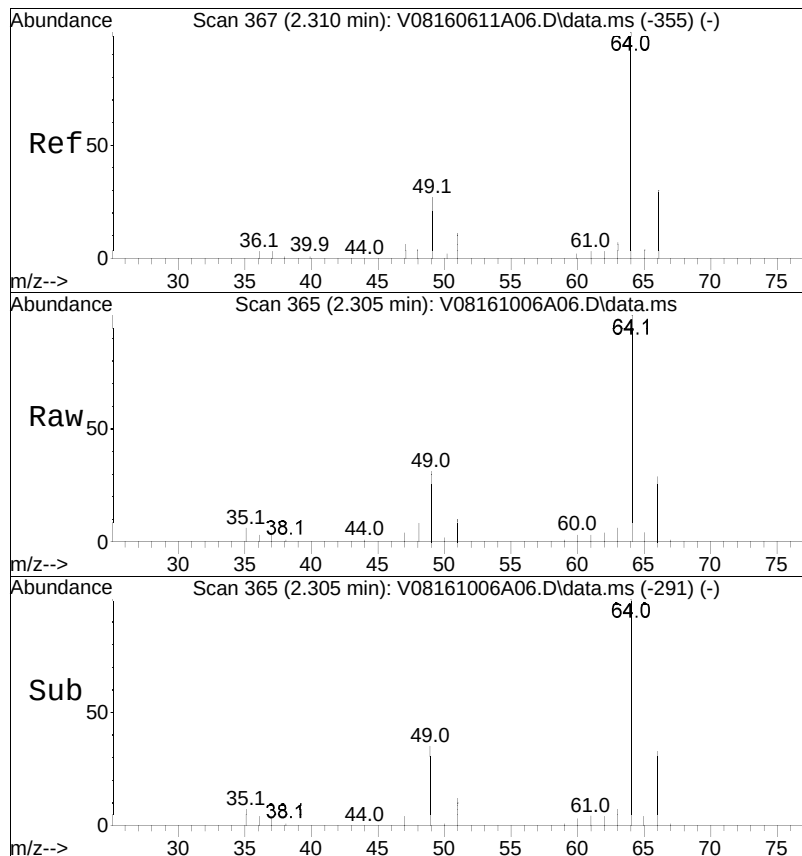




#5
 Bromomethane
 Concen: 0.63 ug/L
 RT: 2.185 min Scan# 322
 Delta R.T. 0.003 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

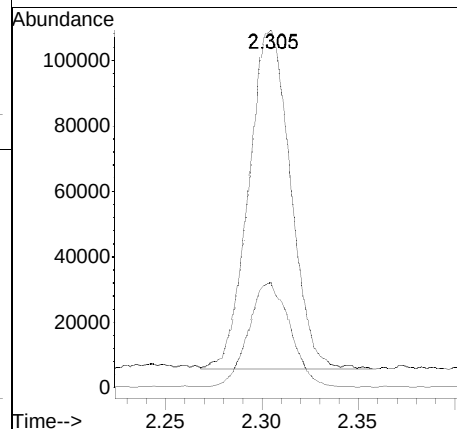
Tgt Ion: 94 Resp: 1129
 Ion Ratio Lower Upper
 94 100
 96 104.5 75.7 115.7

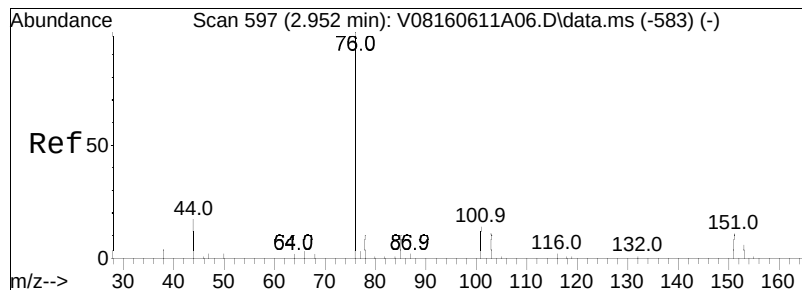




#6
 Chloroethane
 Concen: 32.52 ug/L
 RT: 2.305 min Scan# 365
 Delta R.T. 0.006 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

Tgt Ion	Ratio	Lower	Upper
64	100		
66	31.1	9.1	49.1





#11

Carbon disulfide

Concen: 0.33 ug/L

RT: 2.935 min Scan# 591

Delta R.T. 0.003 min

Lab File: V08161006A06.D

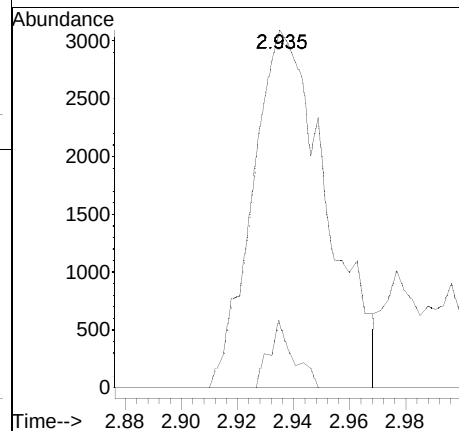
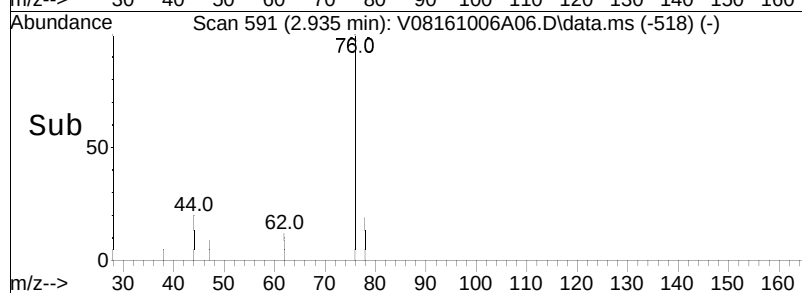
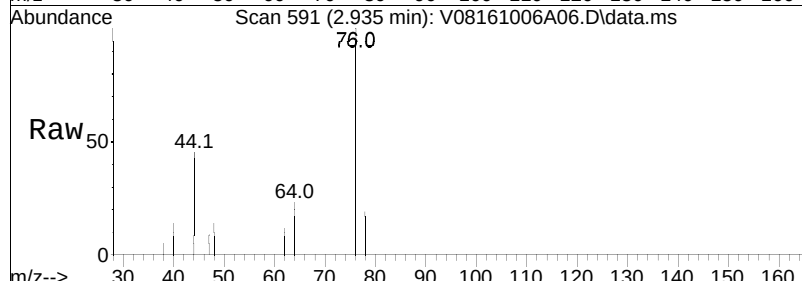
Acq: 6 Oct 2016 11:43 am

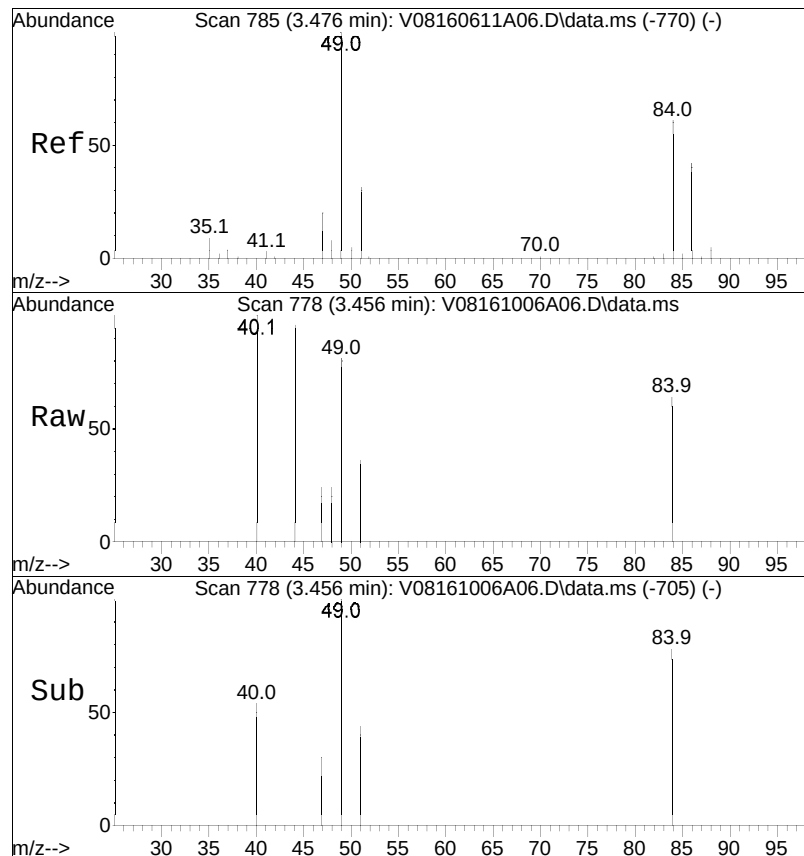
Tgt Ion: 76 Resp: 5618

Ion Ratio Lower Upper

76 100

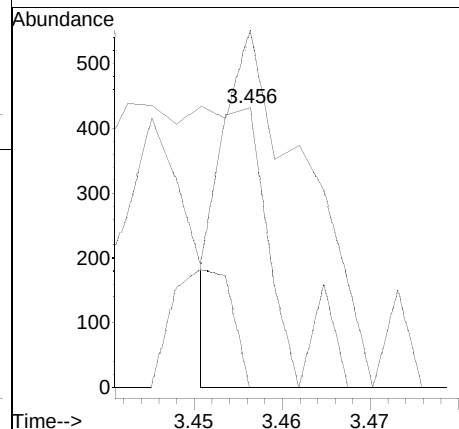
78 6.2 6.6 13.8#

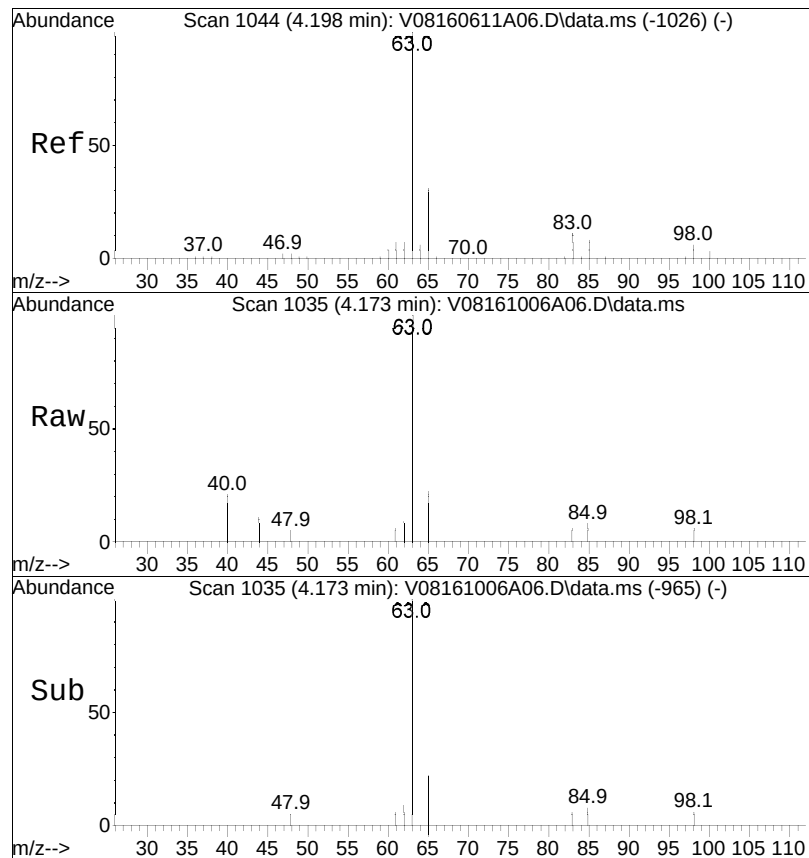




#15
 Methylene chloride
 Concen: Below Cal
 RT: 3.456 min Scan# 778
 Delta R.T. 0.002 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

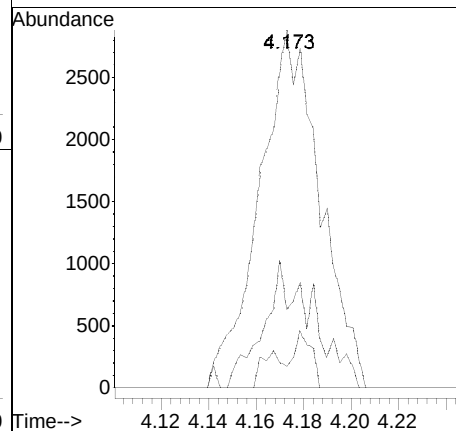
Tgt Ion:	84	Resp:	195
Ion Ratio	Lower	Upper	
84	100		
86	43.6	41.7	86.7
49	0.0	124.3	258.1#

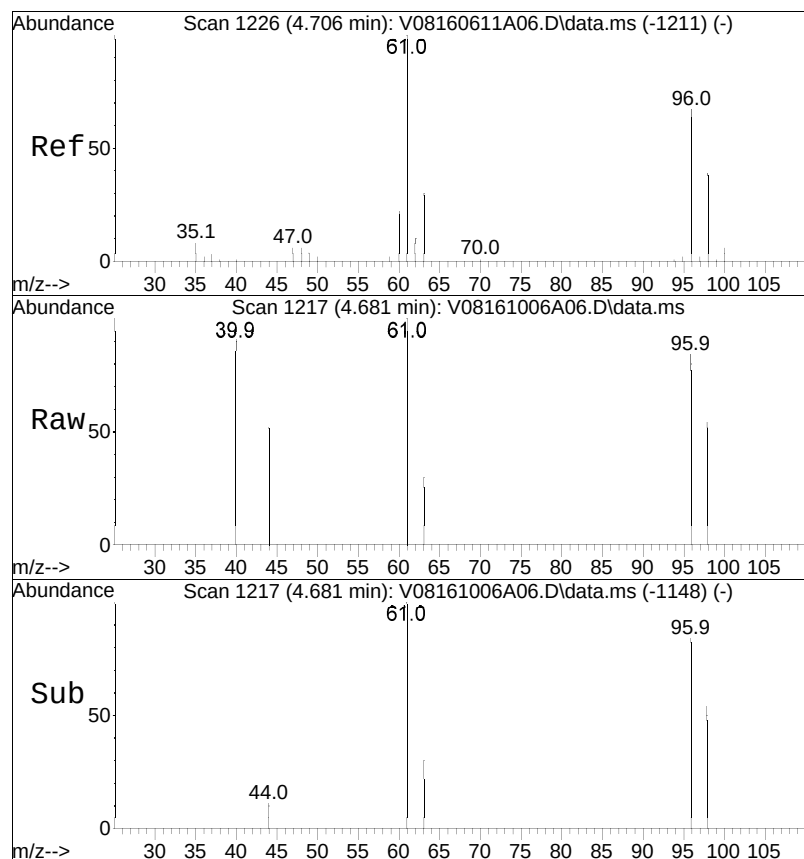




#23
 1,1-Dichloroethane
 Concen: 0.39 ug/L
 RT: 4.173 min Scan# 1035
 Delta R.T. -0.006 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

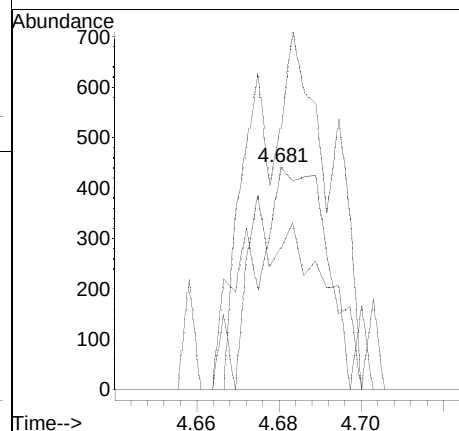
Tgt Ion	Ratio	Lower	Upper
63	100		
65	16.2	8.1	48.1
83	3.7	0.0	30.5

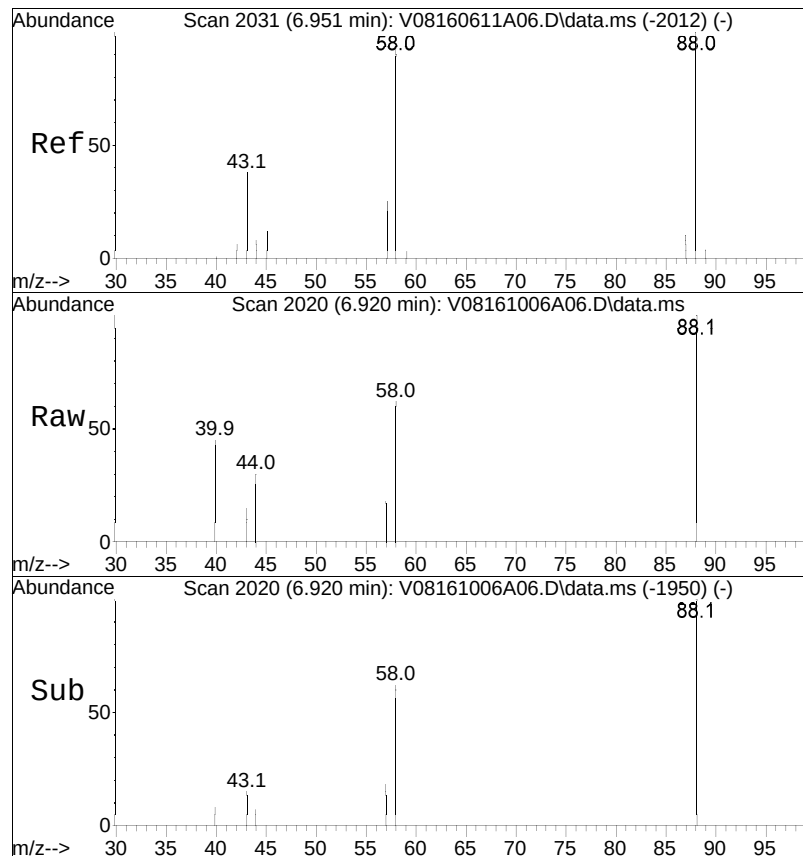




#28
 cis-1,2-Dichloroethene
 Concen: 0.09 ug/L
 RT: 4.681 min Scan# 1217
 Delta R.T. -0.008 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

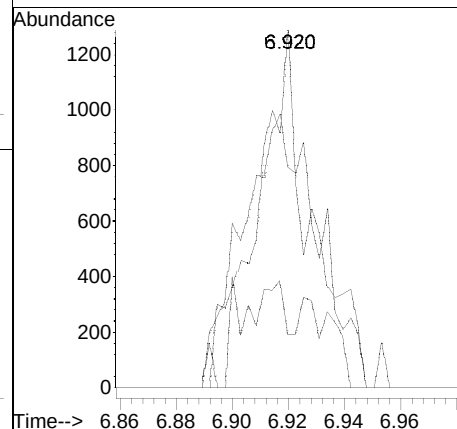
Tgt Ion:	96	Resp:	589
Ion Ratio	Lower	Upper	
96	100		
61	108.0	127.6	191.4#
98	0.0	50.0	75.0#

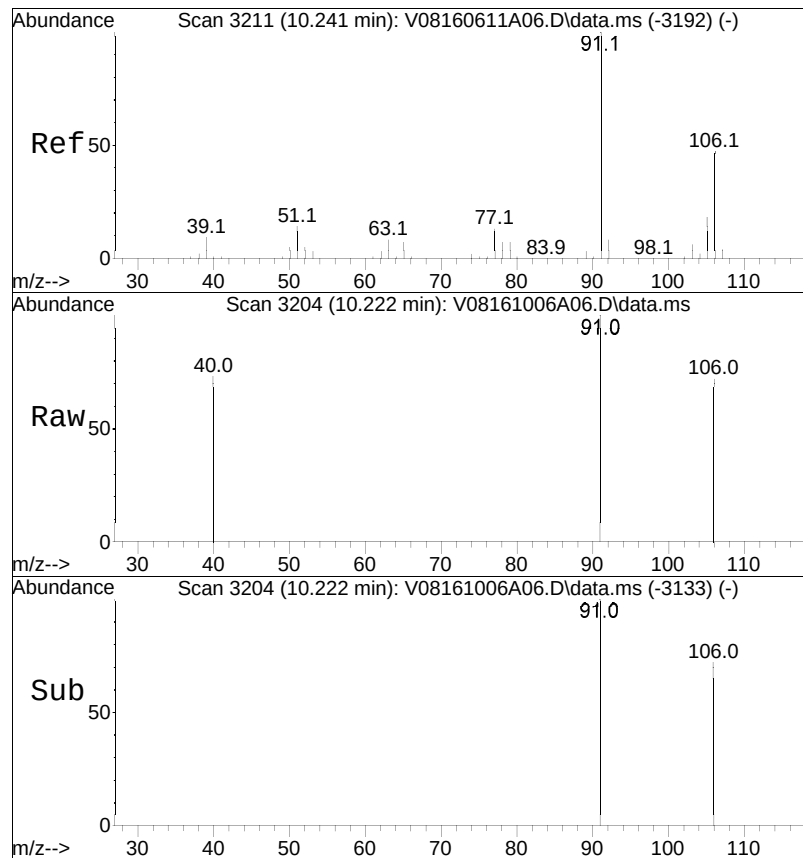




#57
 1,4-Dioxane
 Concen: 85.50 ug/L
 RT: 6.920 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

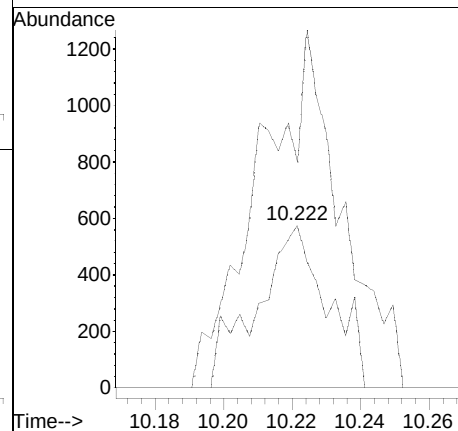
Tgt Ion:	88	Resp:	1748
Ion Ratio	Lower	Upper	
88	100		
58	105.1	70.8	106.2
43	3.2	29.3	43.9#

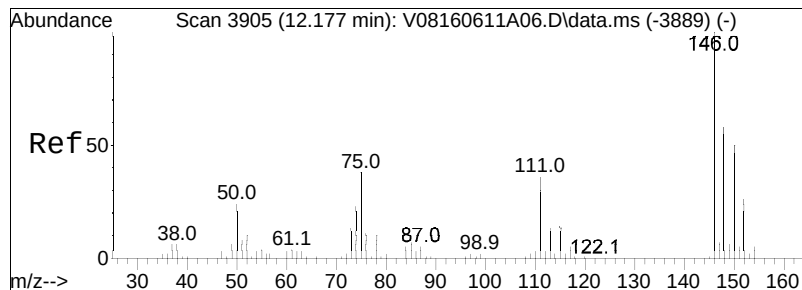




#77
 o Xylene
 Concen: 0.09 ug/L
 RT: 10.222 min Scan# 3204
 Delta R.T. -0.002 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

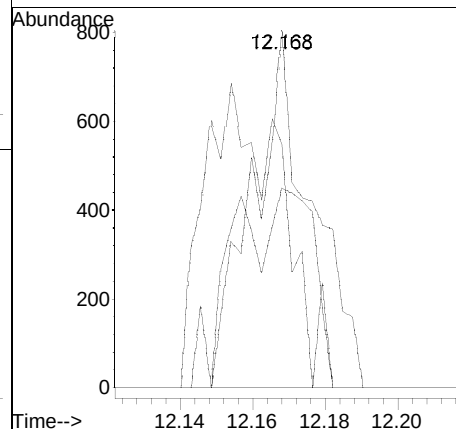
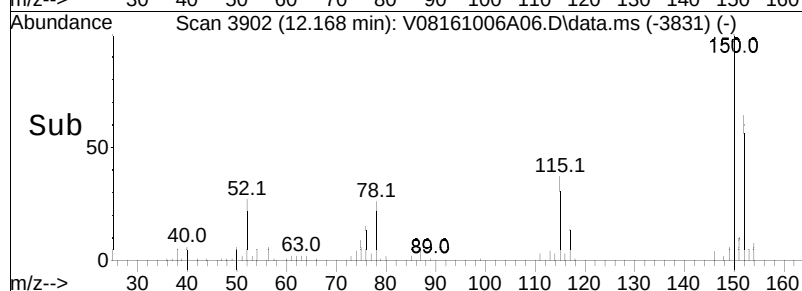
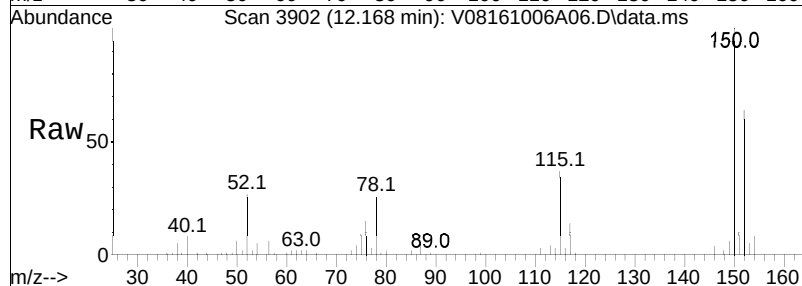
Tgt Ion	Ratio	Lower	Upper
106	100		
91	121.7	176.2	264.4#

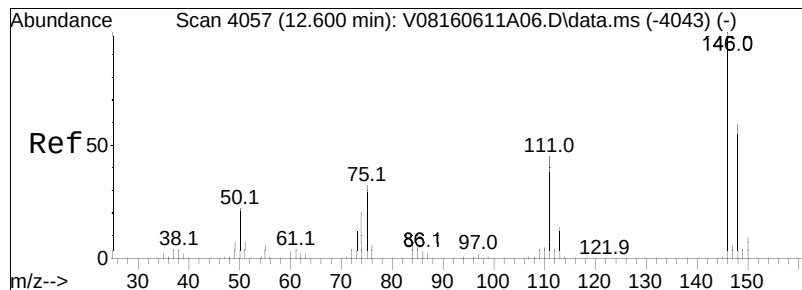




#101
 1,4-Dichlorobenzene
 Concen: 0.13 ug/L
 RT: 12.168 min Scan# 3902
 Delta R.T. -0.003 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

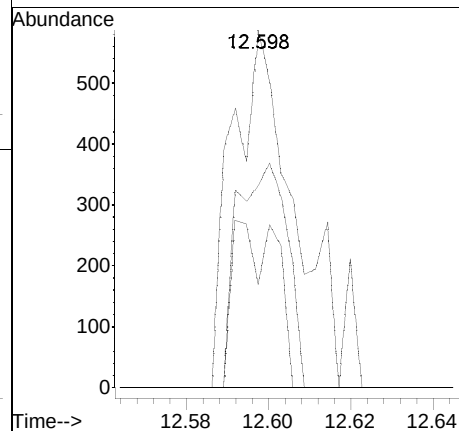
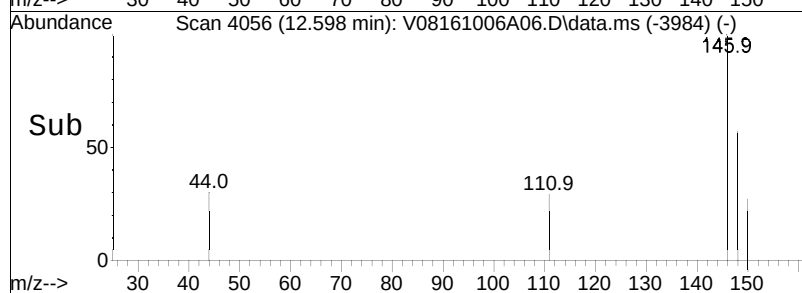
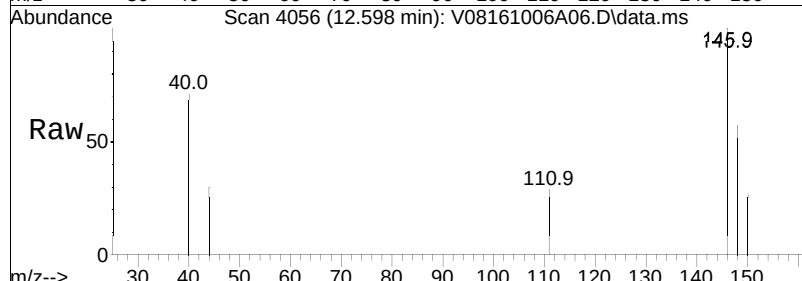
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	32.7	49.1#
148	41.5	49.6	74.4#





#104
 1,2-Dichlorobenzene
 Concen: 0.11 ug/L
 RT: 12.598 min Scan# 4056
 Delta R.T. 0.001 min
 Lab File: V08161006A06.D
 Acq: 6 Oct 2016 11:43 am

Tgt Ion	Ratio	Lower	Upper
146	100		
111	31.7	28.0	58.1
148	48.4	41.3	85.7



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A06.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 11:43 am Instrument : VOA 108
Sample : l1630897-01D,31,1,10,,c Quant Date : 10/6/2016 12:26 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A07.D
 Acq On : 6 Oct 2016 12:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03D, 31, 1, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 12:29:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	221183	10.000	ug/L	0.00
Standard Area 1 = 246373			Recovery =	89.78%		
59) Chlorobenzene-d5	9.427	117	146321	10.000	ug/L	0.00
Standard Area 1 = 160139			Recovery =	91.37%		
79) 1,4-Dichlorobenzene-d4	12.151	152	44984	10.000	ug/L	0.00
Standard Area 1 = 67154			Recovery =	66.99%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	53131	9.800	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.00%		
43) 1,2-Dichloroethane-d4	5.643	65	47927	9.282	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.82%		
60) Toluene-d8	7.592	98	199112	10.099	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.99%		
83) 4-Bromofluorobenzene	10.933	95	51222	11.654	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	116.54%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.878	62	284	N.D.		
5) Bromomethane	2.188	94	631	0.465	ug/L	99
6) Chloroethane	2.305	64	110139	26.971	ug/L	97
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.932	76	1966	0.133	ug/L #	76
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	3.702	73	68	N.D.		
23) 1,1-Dichloroethane	4.179	63	2420	0.215	ug/L	95
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A07.D
 Acq On : 6 Oct 2016 12:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03D, 31, 1, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 12:29:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.506	78	37		N.D.	
44) 1,2-Dichloroethane	5.718	62	55		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	6.928	88	803M1	45.681	ug/L	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.662	92	28		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.446	112	34		N.D.	
74) Ethylbenzene	9.483	91	139		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.681	106	340		N.D.	
77) o Xylene	10.213	106	104		N.D.	
78) Styrene	10.294	104	245		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.604	105	142		N.D.	
84) Bromobenzene	11.041	156	27		N.D.	
85) n-Propylbenzene	11.094	91	634		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.217	105	137		N.D.	
89) 2-Chlorotoluene	11.262	91	190		N.D.	
90) 1,3,5-Trimethylbenzene	11.318	105	201		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.440	91	52		N.D.	
94) tert-Butylbenzene	11.658	119	28		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A07.D
 Acq On : 6 Oct 2016 12:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03D, 31, 1, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 12:29:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.747	105	192		N.D.	
98)	sec-Butylbenzene	11.859	105	379		N.D.	
99)	p-Isopropyltoluene	12.001	119	30		N.D.	
100)	1,3-Dichlorobenzene	12.076	146	280		N.D.	
101)	1,4-Dichlorobenzene	12.168	146	323		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	12.592	146	132		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	13.989	225	26		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

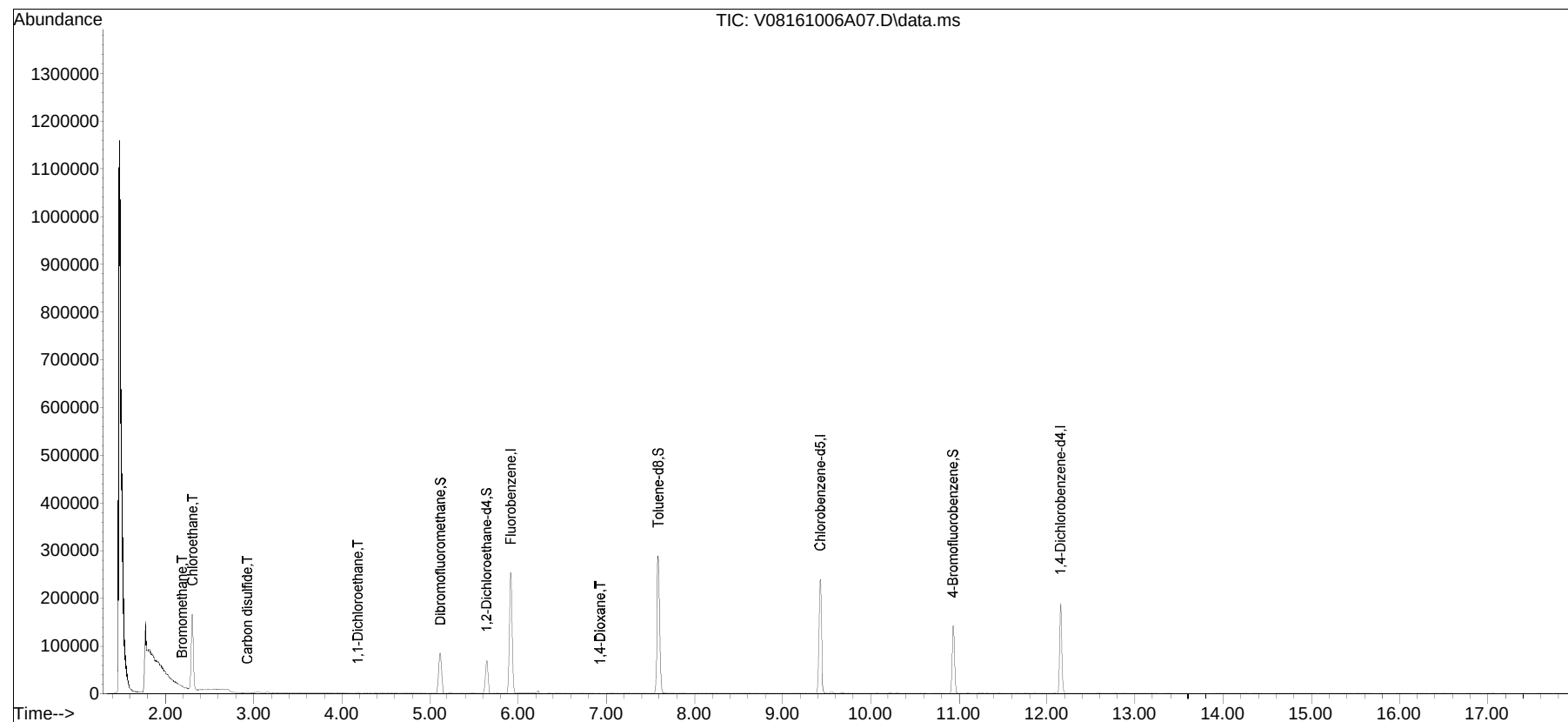
(#) = qualifier out of range (m) = manual integration (+) = signals summed

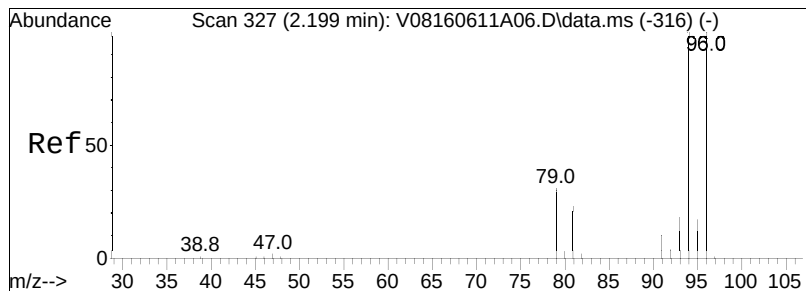
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A07.D
 Acq On : 6 Oct 2016 12:11 pm
 Operator : VOA108:PD
 Sample : l1630897-03D,31,1,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 06 12:29:17 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

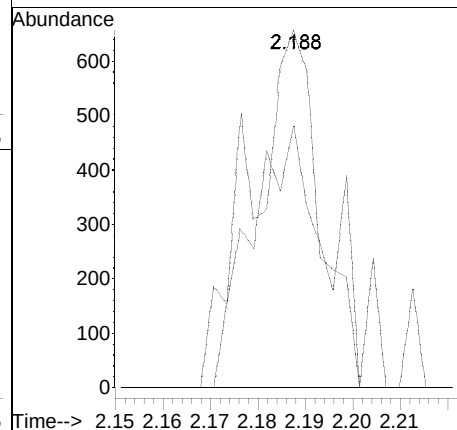
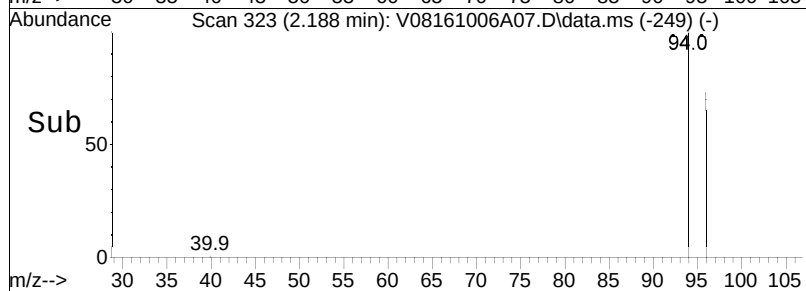
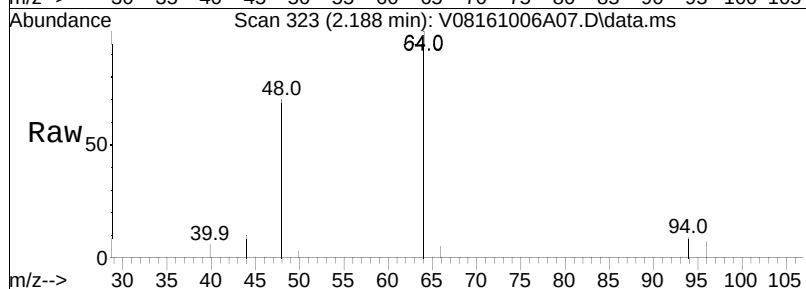
Sub List : 8260-NYTCL - Megamix plus Diox61006A\V08161006A02.D•

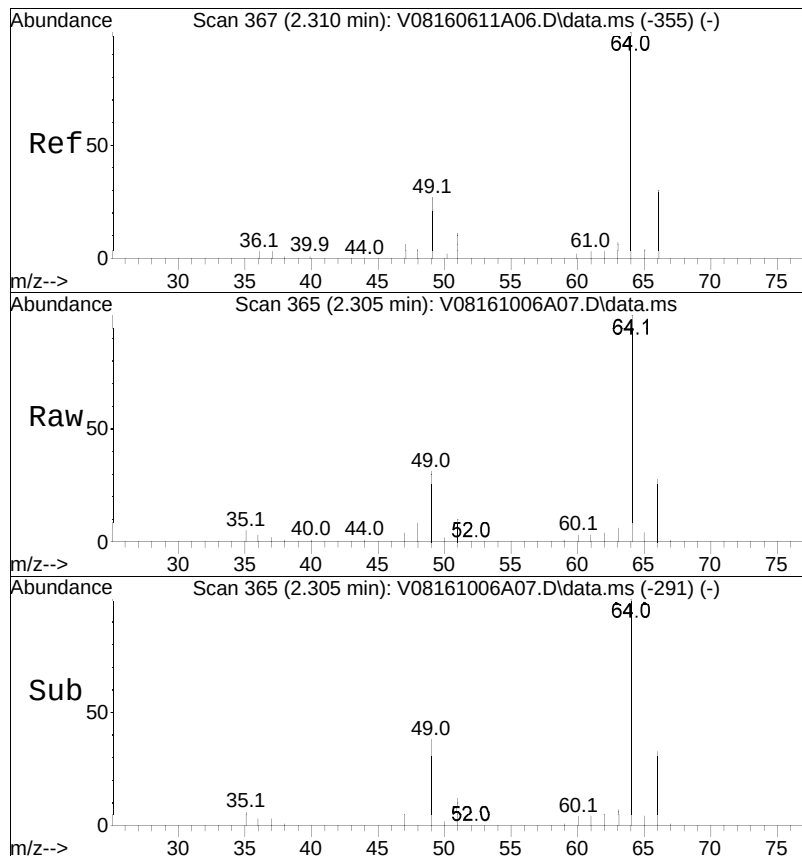




#5
 Bromomethane
 Concen: 0.46 ug/L
 RT: 2.188 min Scan# 323
 Delta R.T. 0.006 min
 Lab File: V08161006A07.D
 Acq: 6 Oct 2016 12:11 pm

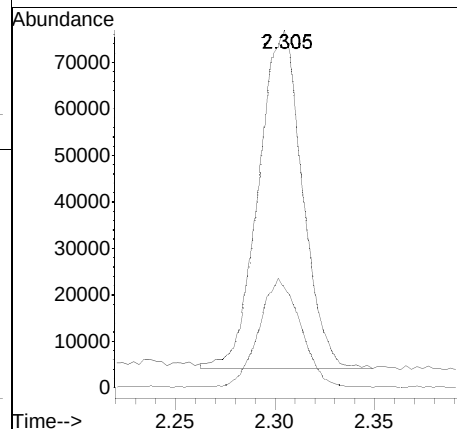
Tgt Ion: 94 Resp: 631
 Ion Ratio Lower Upper
 94 100
 96 94.6 75.7 115.7

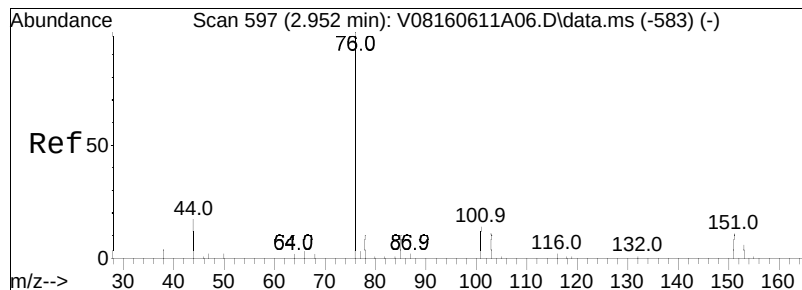




#6
 Chloroethane
 Concen: 26.97 ug/L
 RT: 2.305 min Scan# 365
 Delta R.T. 0.006 min
 Lab File: V08161006A07.D
 Acq: 6 Oct 2016 12:11 pm

Tgt Ion	Ratio	Lower	Upper
64	100		
66	30.9	9.1	49.1





#11

Carbon disulfide

Concen: 0.13 ug/L

RT: 2.932 min Scan# 590

Delta R.T. 0.000 min

Lab File: V08161006A07.D

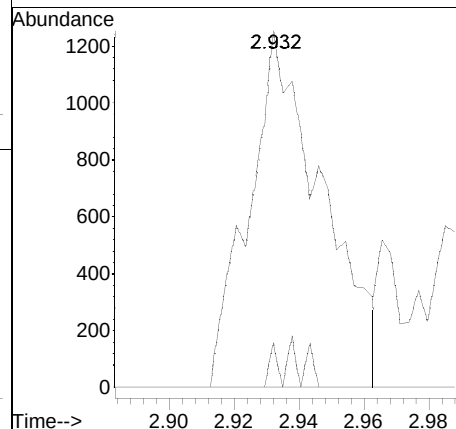
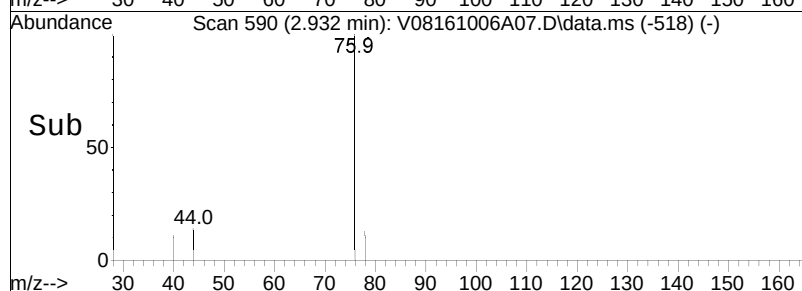
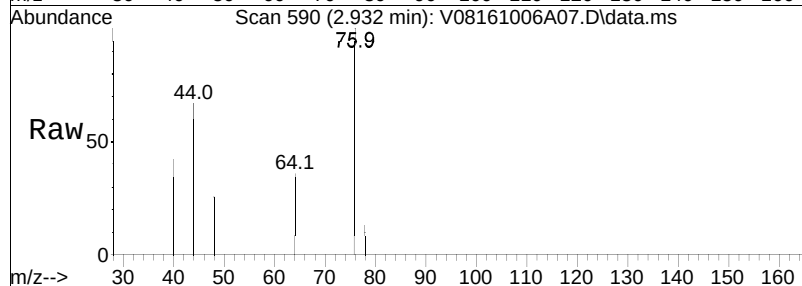
Acq: 6 Oct 2016 12:11 pm

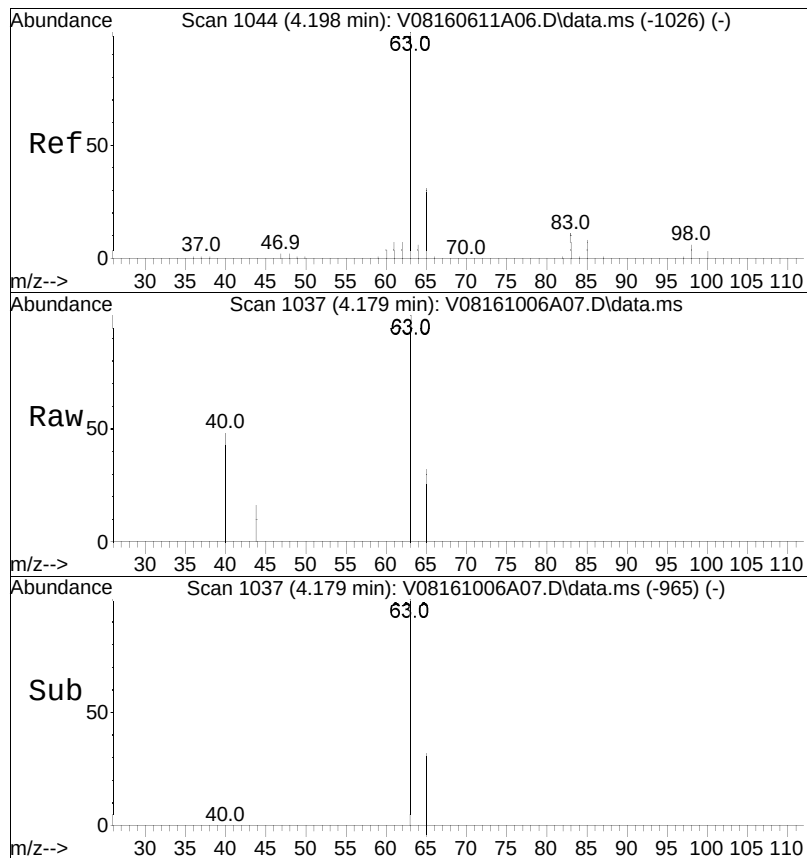
Tgt Ion: 76 Resp: 1966

Ion Ratio Lower Upper

76 100

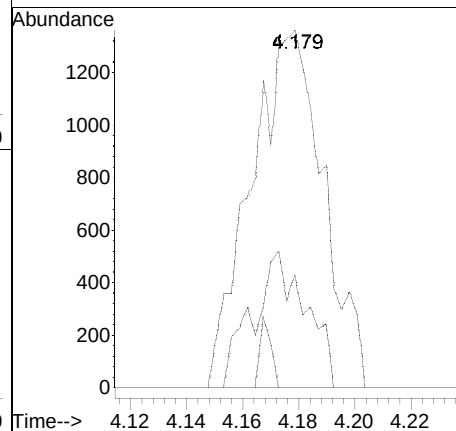
78 1.3 6.6 13.8#

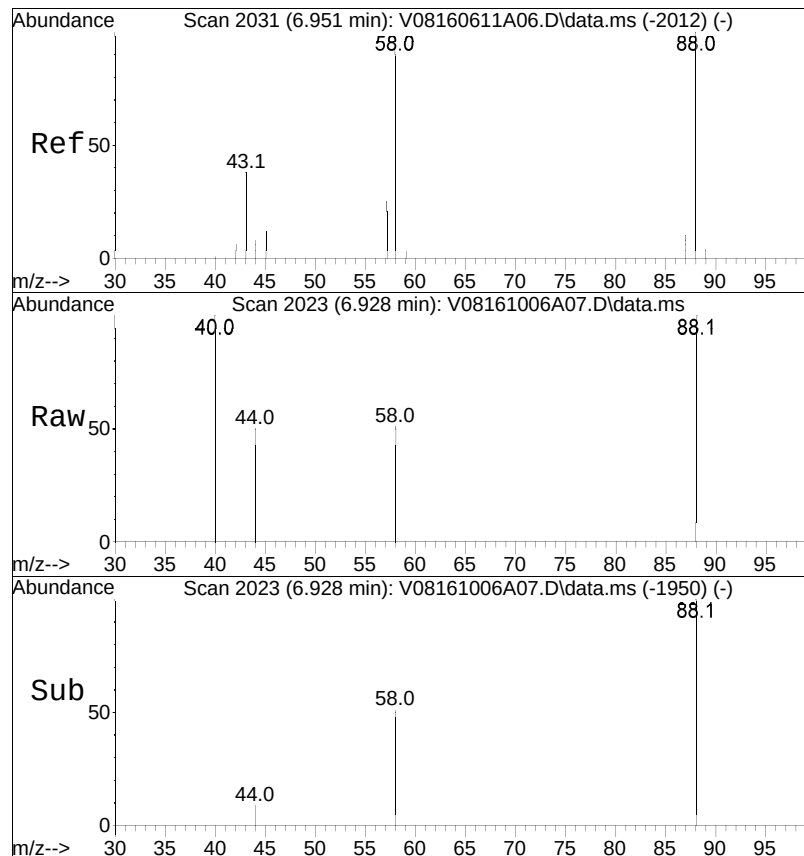




#23
 1,1-Dichloroethane
 Concen: 0.21 ug/L
 RT: 4.179 min Scan# 1037
 Delta R.T. -0.000 min
 Lab File: V08161006A07.D
 Acq: 6 Oct 2016 12:11 pm

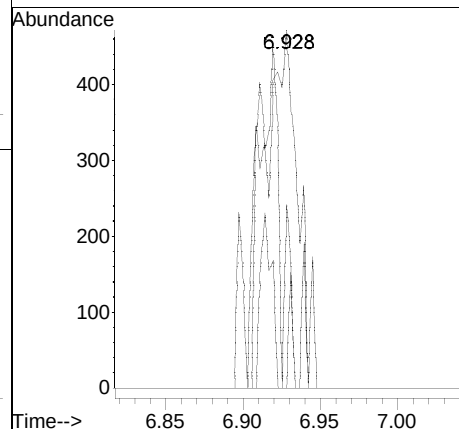
Tgt Ion:	63	Resp:	2420
Ion Ratio	Lower	Upper	
63	100		
65	28.1	8.1	48.1
83	3.0	0.0	30.5





#57
 1,4-Dioxane
 Concen: 45.68 ug/L M1
 RT: 6.928 min Scan# 2023
 Delta R.T. 0.003 min
 Lab File: V08161006A07.D
 Acq: 6 Oct 2016 12:11 pm

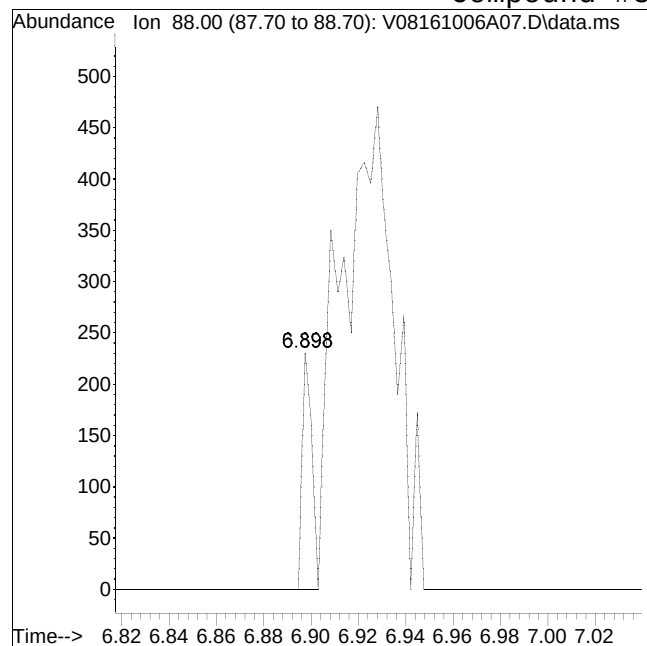
Tgt Ion	Ratio	Lower	Upper
88	100		
58	22.0	70.8	106.2#
43	14.8	29.3	43.9#



Manual Integration Report

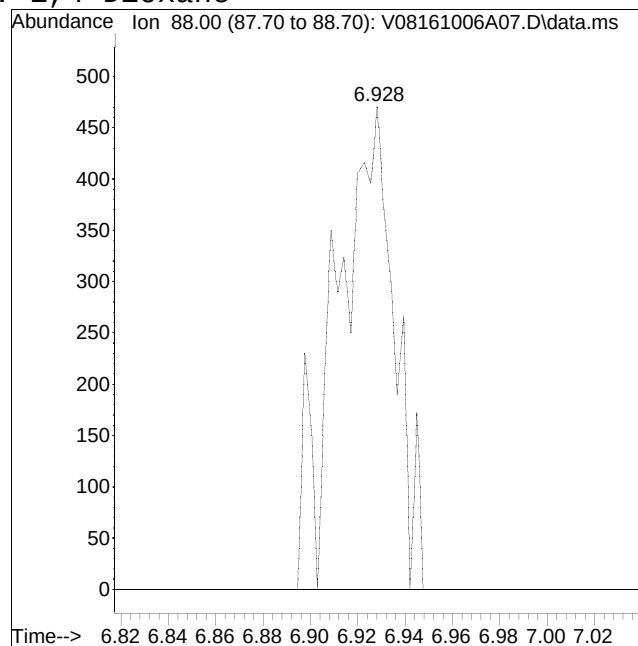
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A07.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 12:11 pm Instrument : VOA 108
Sample : l1630897-03D,31,1,10,,c Quant Date : 10/6/2016 12:28 pm

Compound #57: 1,4-Dioxane



Original Peak Response = 65

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 803 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A08.D
 Acq On : 6 Oct 2016 12:39 pm
 Operator : VOA108:PD
 Sample : l1630897-05D, 31, 0.5, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:21:36 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	219349	10.000	ug/L	0.00
Standard Area 1 = 246373			Recovery =	89.03%		
59) Chlorobenzene-d5	9.430	117	147672	10.000	ug/L	0.00
Standard Area 1 = 160139			Recovery =	92.21%		
79) 1,4-Dichlorobenzene-d4	12.151	152	46052	10.000	ug/L	0.00
Standard Area 1 = 67154			Recovery =	68.58%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	53883	10.022	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.22%		
43) 1,2-Dichloroethane-d4	5.645	65	49129	9.595	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.95%		
60) Toluene-d8	7.595	98	197967	9.949	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.49%		
83) 4-Bromofluorobenzene	10.933	95	53387	11.865	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	118.65%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	1.872	62	30	N.D.		
5) Bromomethane	2.188	94	580	0.442	ug/L	96
6) Chloroethane	2.305	64	152547	37.669	ug/L	98
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.943	76	3393	0.231	ug/L #	76
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.523	43	70	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	4.173	63	3962	0.355	ug/L #	58
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.681	96	97	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A08.D
 Acq On : 6 Oct 2016 12:39 pm
 Operator : VOA108:PD
 Sample : l1630897-05D, 31, 0.5, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:21:36 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	5.509	78	118		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	d
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.656	92	38		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.446	112	26		N.D.	
74) Ethylbenzene	9.485	91	73		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.678	106	272		N.D.	
77) o Xylene	10.219	106	198		N.D.	
78) Styrene	10.283	104	66		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.601	105	168		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	11.100	91	446		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.315	105	173		N.D.	
89) 2-Chlorotoluene	11.262	91	175		N.D.	
90) 1,3,5-Trimethylbenzene	11.315	105	173		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.440	91	71		N.D.	
94) tert-Butylbenzene	11.663	119	136		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A08.D
 Acq On : 6 Oct 2016 12:39 pm
 Operator : VOA108:PD
 Sample : l1630897-05D, 31, 0.5, 10, , c
 Misc : WG939161, ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 06 13:21:36 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.741	105	192		N.D.	
98)	sec-Butylbenzene	11.856	105	313		N.D.	
99)	p-Isopropyltoluene	12.017	119	25		N.D.	
100)	1,3-Dichlorobenzene	12.082	146	188		N.D.	
101)	1,4-Dichlorobenzene	12.162	146	301		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.603	146	148		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

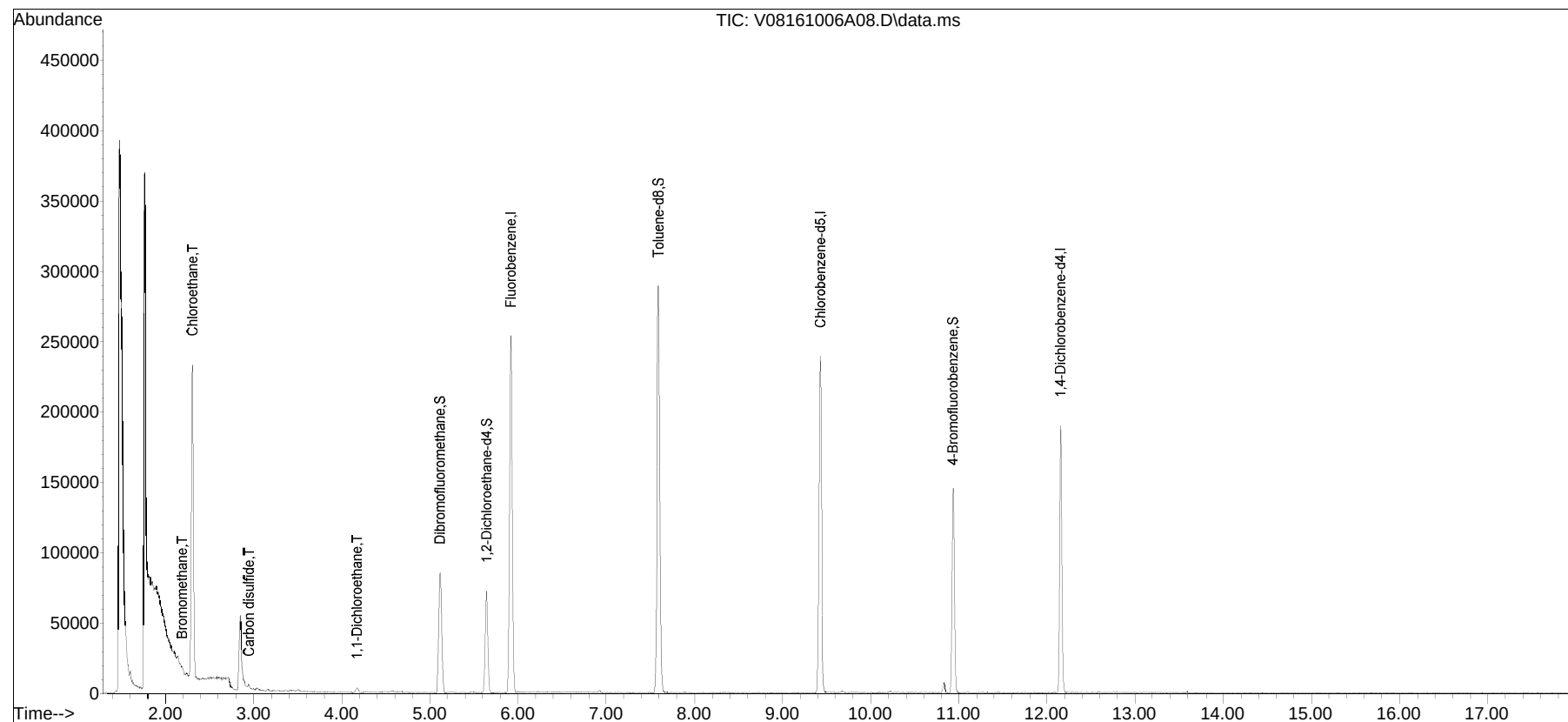
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A08.D
 Acq On : 6 Oct 2016 12:39 pm
 Operator : VOA108:PD
 Sample : l1630897-05D,31,0.5,10,,c
 Misc : WG939161,ICAL12737
 ALS Vial : 8 Sample Multiplier: 1

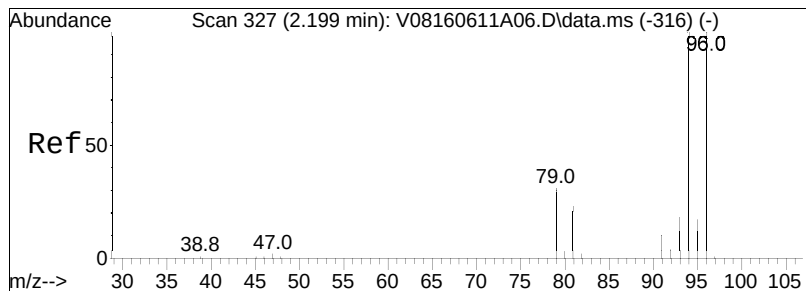
Quant Time: Oct 06 13:21:36 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox61006A\V08161006A02.D•



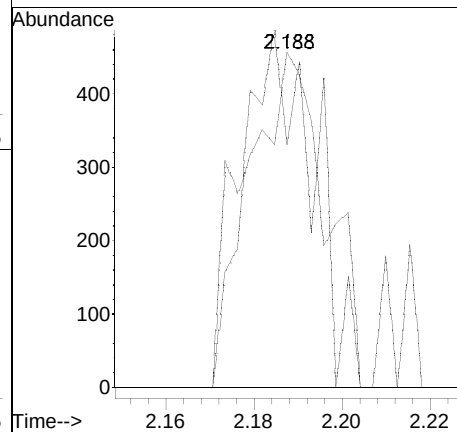
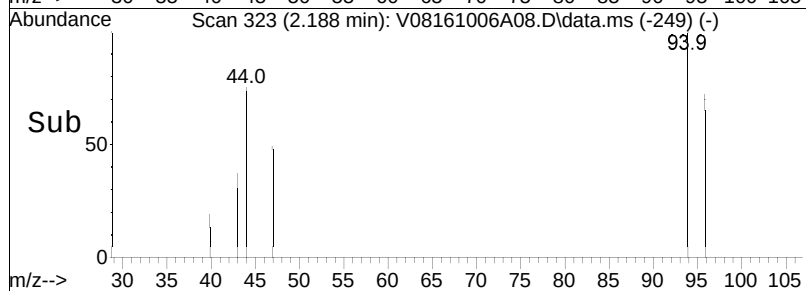
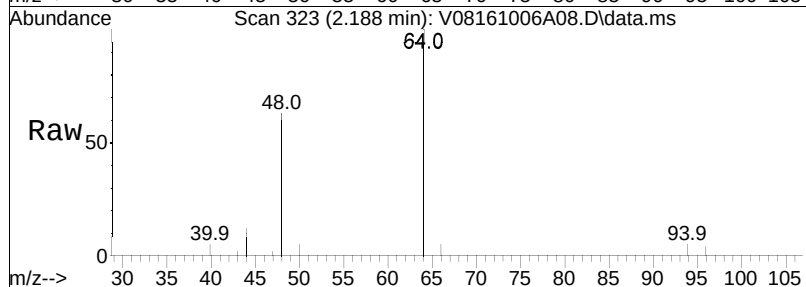
V108_1600808_8260.m Thu Oct 06 13:24:52 2016

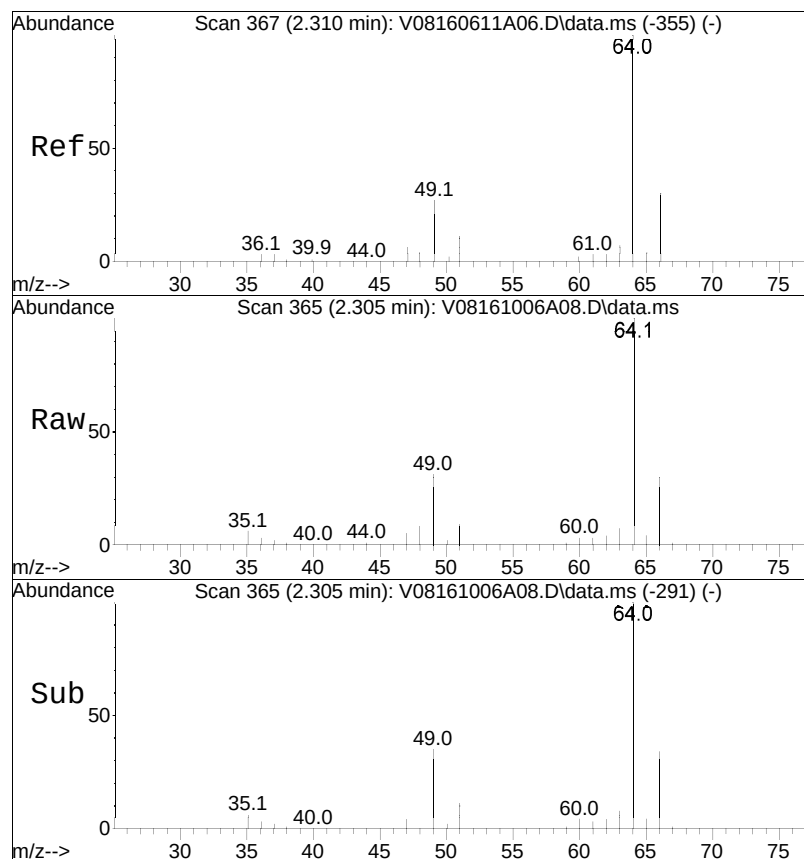
Page 4 : 4



#5
 Bromomethane
 Concen: 0.44 ug/L
 RT: 2.188 min Scan# 323
 Delta R.T. 0.006 min
 Lab File: V08161006A08.D
 Acq: 6 Oct 2016 12:39 pm

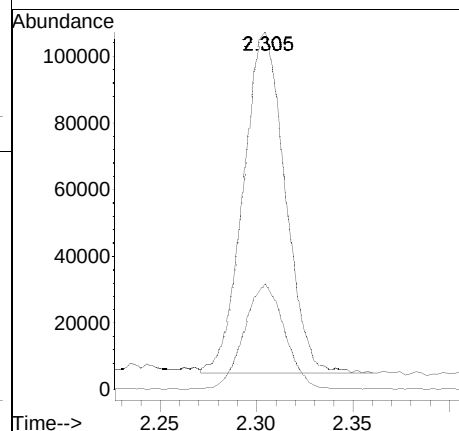
Tgt Ion: 94 Resp: 580
 Ion Ratio Lower Upper
 94 100
 96 91.7 75.7 115.7

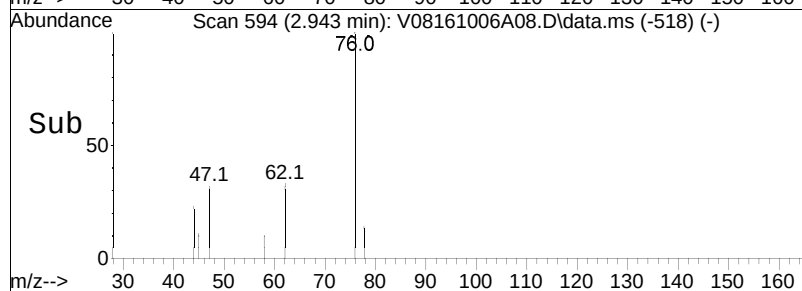
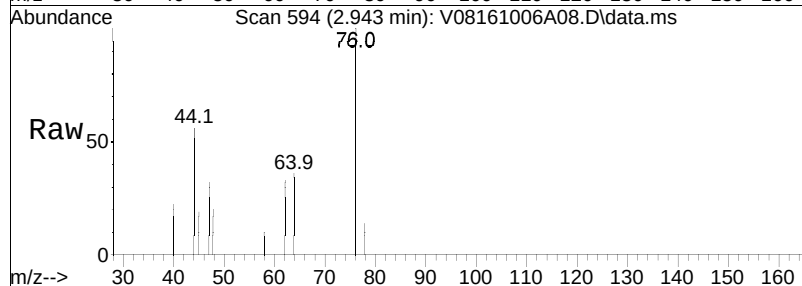
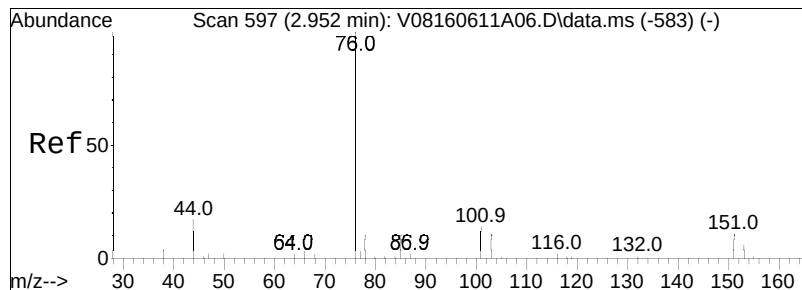




#6
 Chloroethane
 Concen: 37.67 ug/L
 RT: 2.305 min Scan# 365
 Delta R.T. 0.006 min
 Lab File: V08161006A08.D
 Acq: 6 Oct 2016 12:39 pm

Tgt Ion:	64	Resp:	152547
Ion Ratio	Lower	Upper	
64	100		
66	30.3	9.1	49.1





#11

Carbon disulfide

Concen: 0.23 ug/L

RT: 2.943 min Scan# 594

Delta R.T. 0.011 min

Lab File: V08161006A08.D

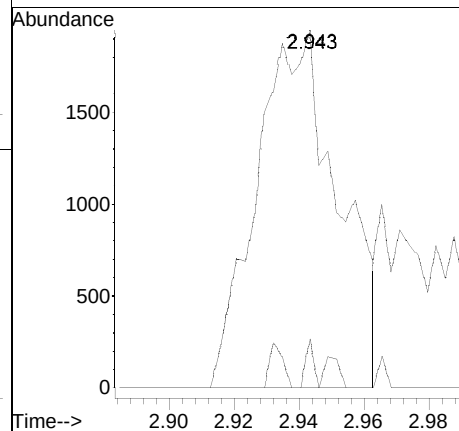
Acq: 6 Oct 2016 12:39 pm

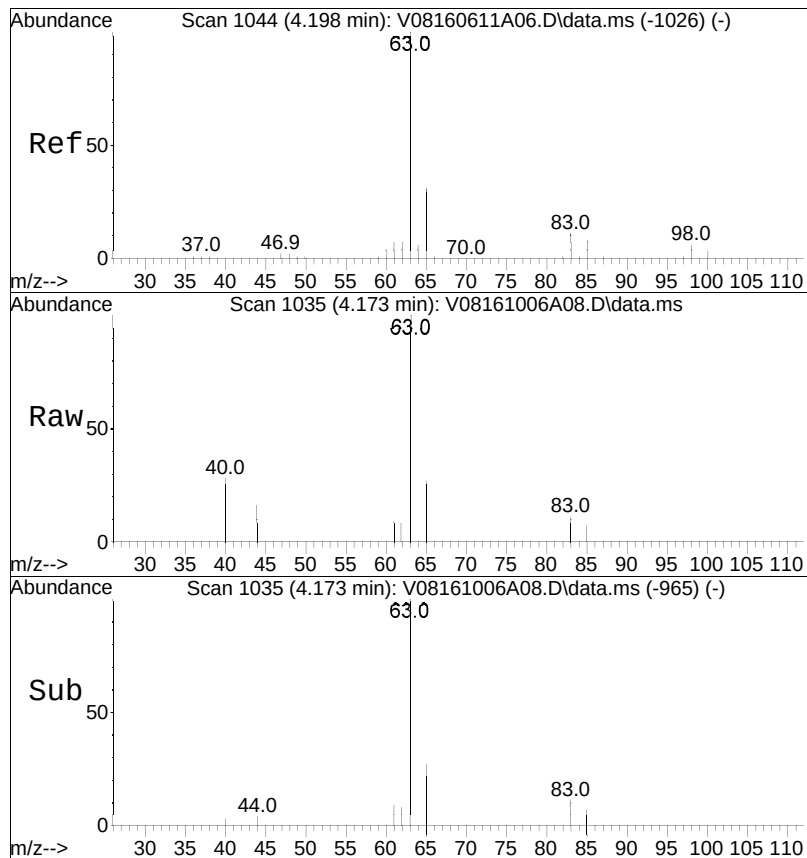
Tgt Ion: 76 Resp: 3393

Ion Ratio Lower Upper

76 100

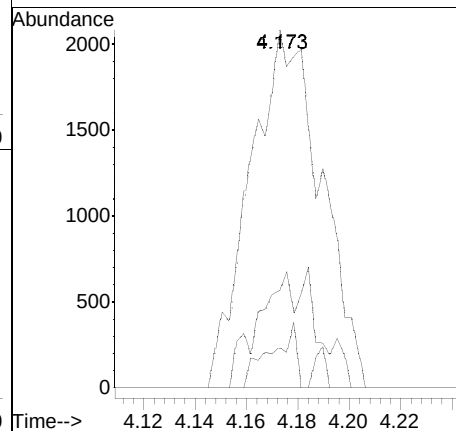
78 1.3 6.6 13.8#





#23
 1,1-Dichloroethane
 Concen: 0.35 ug/L
 RT: 4.173 min Scan# 1035
 Delta R.T. -0.006 min
 Lab File: V08161006A08.D
 Acq: 6 Oct 2016 12:39 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	8.1	48.1#
83	6.6	0.0	30.5



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A08.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 12:39 pm Instrument : VOA 108
Sample : l1630897-05D,31,0.5,10,,c Quant Date : 10/6/2016 1:21 pm

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : P. W. Grosser
 Project Name : CUE1601
 Instrument ID : VOA108
 Calibration dates : 08/08/16 15:43 08/08/16 19:56

Lab Number : L1630897
 Project Number : CUE1601
 Ical Ref : ICAL12737

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) T Dichlorodifluo		0.206	0.233	0.266	0.261	0.262	0.250	0.246	0.246	8.58
3) T Chloromethane		0.306	0.354	0.365	0.358	0.373	0.377	0.390	0.361	7.43
4) T Vinyl chloride	0.248	0.295	0.339	0.366	0.368	0.372	0.362	0.357	0.338	13.09
5) T Bromomethane		0.105	0.072	0.065	0.085	0.111	0.119	0.126	*Q	0.9967
6) T Chloroethane		0.169	0.198	0.205	0.196	0.187	0.153		0.185	10.85
7) T Trichlorofluor		0.295	0.343	0.388	0.378	0.379	0.361	0.354	0.357	8.78
8) T Ethyl ether		0.073	0.078	0.080	0.079	0.079	0.078	0.077	0.078	2.96
10) T 1,1-Dichloroet		0.173	0.189	0.216	0.204	0.208	0.200	0.197	0.198	7.03
11) T Carbon disulfide		0.608	0.638	0.701	0.683	0.701	0.680	0.681	0.670	5.16
12) T Freon-113		0.160	0.191	0.216	0.207	0.208	0.200	0.196	0.197	9.28
13) T Iodomethane		0.063	0.073	0.087	0.156	0.190	0.188	0.197	*L	0.9913
14) T Acrolein		0.003	0.014	0.017	0.018	0.018	0.018	0.018	*L	0.9999
15) T Methylene chlo		0.340	0.248	0.227	0.213	0.208	0.202	0.201	*L	0.9996
17) T Acetone		0.049	0.032	0.030	0.029	0.030	0.032	0.036	*L	0.9944
18) T trans-1,2-Dich		0.222	0.229	0.252	0.245	0.250	0.245	0.246	0.241	4.59
19) T Methyl acetate		0.065	0.070	0.075	0.074	0.073	0.074	0.075	0.072	5.02
20) T Methyl tert butyl ether		0.285	0.294	0.336	0.343	0.349	0.331	0.227	0.309	14.14
21) T tert-Butyl alc		0.006	0.007	0.006	0.006	0.005			0.006	11.09
22) T Diisopropyl ether		0.672	0.718	0.849	0.874	0.899	0.878	0.877	0.824	10.95
23) T 1,1-Dichloroet		0.444	0.500	0.537	0.524	0.527	0.515	0.517	0.509	6.11
24) T Halothane		0.133	0.164	0.178	0.176	0.178	0.174	0.174	0.168	9.48
25) T Acrylonitrile		0.012	0.037	0.041	0.042	0.042	0.043	0.044	*L	0.9999
26) T Ethyl tert-but		0.464	0.490	0.583	0.611	0.634	0.629	0.615	0.575	12.09
27) T Vinyl acetate		0.220	0.247	0.306	0.330	0.353	0.354	0.359	0.310	17.98
28) T cis-1,2-Dichlo		0.216	0.232	0.254	0.251	0.253	0.248	0.249	0.243	5.86
29) T 2,2-Dichloropr		0.254	0.290	0.342	0.333	0.328	0.304	0.266	0.303	11.25
30) T Bromochloromet		0.083	0.087	0.092	0.091	0.092	0.092	0.091	0.090	4.11
31) T Cyclohexane		0.376	0.462	0.614	0.611	0.626	0.608	0.601	0.557	17.53
32) T Chloroform		0.374	0.396	0.429	0.416	0.418	0.407	0.411	0.407	4.38
33) T Ethyl acetate		0.093	0.082	0.093	0.100	0.105	0.108	0.110	0.099	10.11
34) T Carbon tetrach		0.289	0.331	0.379	0.371	0.382	0.373	0.373	0.357	9.69
35) T Tetrahydrofuran		0.016	0.027	0.036	0.036	0.037	0.037	0.038	*L	0.9998
36) S Dibromofluoromethane	0.246	0.250	0.247	0.243	0.243	0.246	0.243	0.242	0.245	1.16
37) T 1,1,1-Trichlor		0.319	0.361	0.415	0.404	0.412	0.405	0.406	0.389	9.18
39) T 2-Butanone		0.029	0.034	0.041	0.043	0.043	0.043	0.044	0.040	14.48
40) T 1,1-Dichloropr		0.245	0.296	0.350	0.347	0.355	0.349	0.350	0.327	12.64
41) T Benzene		0.839	0.899	1.011	0.987	0.998	0.980	0.986	0.957	6.62
42) T Tertiary-Amyl Methyl Ether		0.260	0.287	0.352	0.373	0.393	0.393	0.396	0.350	15.89
43) S 1,2-Dichloroethane-d4	0.237	0.240	0.238	0.232	0.233	0.227	0.226	0.234	0.233	2.14



Initial Calibration Summary

Form 6

Client : P. W. Grosser
 Project Name : CUE1601
 Instrument ID : VOA108
 Calibration dates : 08/08/16 15:43 08/08/16 19:56

Lab Number : L1630897
 Project Number : CUE1601
 Ical Ref : ICAL12737

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
44) T 1,2-Dichloroet		0.240	0.245	0.258	0.251	0.248	0.242	0.242	0.246	2.60
47) T Methyl cyclohe		0.263	0.333	0.416	0.417	0.429	0.420	0.419	0.385	16.34
48) T Trichloroethene		0.234	0.253	0.273	0.261	0.264	0.258	0.260	0.258	4.66
50) T Dibromomethane		0.078	0.080	0.087	0.087	0.086	0.084	0.085	0.084	4.23
51) T 1,2-Dichloropr		0.211	0.229	0.253	0.254	0.259	0.256	0.259	0.246	7.54
53) T 2-Chloroethyl									0.000	-1.00
54) T Bromodichlorom		0.230	0.241	0.265	0.267	0.274	0.270	0.274	0.260	6.66
57) T 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	11.88
58) T cis-1,3-Dichlo		0.216	0.238	0.283	0.296	0.311	0.308	0.313	0.281	13.73
59) I Chlorobenzene-d5	-----ISTD-----									
60) S Toluene-d8	1.352	1.350	1.360	1.357	1.344	1.334	1.327	1.356	1.347	0.88
61) T Toluene		0.776	0.822	0.909	0.870	0.884	0.868	0.887	0.859	5.27
62) T 4-Methyl-2-pen		0.003	0.034	0.045	0.048	0.054	0.056	0.059	*L	0.9972
63) T Tetrachloroethene		0.320	0.344	0.385	0.362	0.370	0.365	0.370	0.359	5.92
65) T trans-1,3-Dich		0.223	0.237	0.285	0.299	0.319	0.320	0.334	0.288	14.87
67) T Ethyl methacry		0.072	0.110	0.150	0.178	0.202	0.208	0.219	*L	0.9959
68) T 1,1,2-Trichlor		0.109	0.131	0.147	0.140	0.142	0.140	0.144	0.136	9.61
69) T Chlorodibromom		0.172	0.177	0.217	0.216	0.227	0.226	0.236	0.210	12.15
70) T 1,3-Dichloropr		0.249	0.275	0.309	0.302	0.306	0.303	0.312	0.294	7.85
71) T 1,2-Dibromoethane		0.113	0.139	0.152	0.154	0.160	0.159	0.164	0.149	11.98
72) T 2-Hexanone		0.016	0.045	0.065	0.075	0.085	0.088	0.092	*L	0.9964
73) T Chlorobenzene		0.836	0.856	0.933	0.897	0.914	0.896	0.911	0.892	3.85
74) T Ethylbenzene		1.255	1.432	1.722	1.676	1.710	1.678	1.699	1.596	11.33
75) T 1,1,1,2-Tetrac		0.248	0.275	0.296	0.292	0.300	0.298	0.307	0.288	7.01
76) T p/m Xylene		0.499	0.562	0.687	0.661	0.678	0.662	0.661	0.630	11.26
77) T o Xylene		0.435	0.499	0.613	0.603	0.615	0.599	0.601	0.566	12.45
78) T Styrene		0.626	0.782	0.966	0.944	0.968	0.948	0.943	0.882	14.79
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80) T Bromoform		0.216	0.188	0.215	0.212	0.216	0.217	0.225	0.213	5.51
82) T Isopropylbenzene		2.803	3.168	3.788	3.644	3.674	3.617	3.671	3.481	10.30
83) S 4-Bromofluorobenzene	1.024	1.019	0.993	0.967	0.954	0.952	0.940	0.966	0.977	3.23
84) T Bromobenzene		0.619	0.652	0.674	0.656	0.656	0.648	0.666	0.653	2.64
85) T n-Propylbenzene		3.440	3.628	4.278	4.102	4.127	4.044	4.086	3.958	7.67
86) T 1,4-Dichlorobu		0.723	0.724	0.798	0.781	0.781	0.769	0.793	0.767	4.06
87) T 1,1,2,2-Tetrac		0.320	0.341	0.366	0.345	0.343	0.342	0.354	0.344	4.05
88) T 4-Ethyltoluene		2.403	2.900	3.522	3.506	3.563	3.511	3.569	3.282	13.86
89) T 2-Chlorotoluene		2.372	2.377	2.503	2.353	2.356	2.292	2.361	2.373	2.69
90) T 1,3,5-Trimethy		2.126	2.491	2.924	2.788	2.820	2.763	2.821	2.676	10.35
91) T 1,2,3-Trichlor		0.277	0.274	0.287	0.283	0.284	0.280	0.290	0.282	1.94
92) T trans-1,4-Dich			0.085	0.109	0.113	0.118	0.117	0.123	*L	0.9995



Initial Calibration Summary

Form 6

Client : P. W. Grosser
 Project Name : CUE1601
 Instrument ID : VOA108
 Calibration dates : 08/08/16 15:43 08/08/16 19:56

Lab Number : L1630897
 Project Number : CUE1601
 Ical Ref : ICAL12737

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
93) T	4-Chlorotoluene	2.049	2.137	2.381	2.297	2.313	2.275	2.341	2.256	5.28	
94) T	tert-Butylbenzene	2.136	2.293	2.780	2.696	2.760	2.711	2.771	2.592	10.19	
95) T	Pentachloroethane	0.298	0.340	0.391	0.391	0.405	0.406	0.414	0.378	11.34	
97) T	1,2,4-Trimethy	1.703	2.000	2.608	2.609	2.698	2.676	2.758	2.436	16.91	
98) T	sec-Butylbenzene	2.545	2.930	3.631	3.484	3.582	3.508	3.554	3.319	12.51	
99) T	p-Isopropyltol	1.678	1.992	2.697	2.718	2.848	2.805	2.873	2.516	19.00	
100) T	1,3-Dichlorobe	1.387	1.288	1.427	1.359	1.364	1.340	1.362	1.361	3.13	
101) T	1,4-Dichlorobe	1.438	1.258	1.327	1.287	1.304	1.276	1.305	1.313	4.50	
102) T	p-Diethylbenzene	0.737	0.978	1.419	1.524	1.621	1.607	1.663	*L	0.9991	
103) T	n-Butylbenzene	1.128	1.494	2.066	2.104	2.241	2.230	2.308	*L	0.9993	
104) T	1,2-Dichlorobe	1.089	1.005	1.094	1.069	1.069	1.054	1.078	1.065	2.78	
105) T	1,2,4,5-Tetram	0.803	1.068	1.716	1.873	1.902	1.876	1.911	*L	0.9995	
106) T	1,2-Dibromo-3-		0.026	0.034	0.036	0.039	0.040	0.043	0.037	15.99	
107) T	1,3,5-Trichlor	0.398	0.519	0.652	0.676	0.700	0.701	0.726	0.625	19.39	
108) T	Hexachlorobuta	0.224	0.235	0.238	0.236	0.242	0.247	0.257	0.240	4.39	
109) T	1,2,4-Trichlor	0.152	0.224	0.340	0.406	0.454	0.470	0.494	*L	0.9960	
110) T	Naphthalene	0.168	0.223	0.381	0.500	0.584	0.627	0.666	*L	0.9917	
111) T	1,2,3-Trichlor	0.090	0.161	0.240	0.283	0.311	0.330	0.344	*L	0.9960	

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2016\160808B\
 Method File : V108_160808_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Tue Aug 09 13:29:40 2016
 Response Via : Initial Calibration

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----									
2) T	Dichlorodifluo...	0.206	0.233	0.266	0.261	0.262	0.250	0.246	0.246	8.58	
3) T	Chloromethane	0.306	0.354	0.365	0.358	0.373	0.377	0.390	0.361	7.43	
4) T	Vinyl chloride	0.248	0.295	0.339	0.366	0.368	0.372	0.362	0.357	0.338	13.09
5) T	Bromomethane	0.105	0.072	0.065	0.085	0.111	0.119	0.126	*Q		0.9967
6) T	Chloroethane	0.169	0.198	0.205	0.196	0.187	0.153		0.185	10.85	
7) T	Trichlorofluor...	0.295	0.343	0.388	0.378	0.379	0.361	0.354	0.357	8.78	
8) T	Ethyl ether	0.073	0.078	0.080	0.079	0.079	0.078	0.077	0.078	2.96	
10) T	1,1-Dichloroet...	0.173	0.189	0.216	0.204	0.208	0.200	0.197	0.198	7.03	
11) T	Carbon disulfide	0.608	0.638	0.701	0.683	0.701	0.680	0.681	0.670	5.16	
12) T	Freon-113	0.160	0.191	0.216	0.207	0.208	0.200	0.196	0.197	9.28	
13) T	Iodomethane	0.063	0.073	0.087	0.156	0.190	0.188	0.197	*L		0.9913
14) T	Acrolein	0.003	0.014	0.017	0.018	0.018	0.018	0.018	*L		0.9999
15) T	Methylene chlo...	0.340	0.248	0.227	0.213	0.208	0.202	0.201	*L		0.9996
17) T	Acetone	0.049	0.032	0.030	0.029	0.030	0.032	0.036	*L		0.9944
18) T	trans-1,2-Dich...	0.222	0.229	0.252	0.245	0.250	0.245	0.246	0.241	4.59	
19) T	Methyl acetate	0.065	0.070	0.075	0.074	0.073	0.074	0.075	0.072	5.02	
20) T	Methyl tert-bu...	0.285	0.294	0.336	0.343	0.349	0.331	0.227	0.309	14.14	
21) T	tert-Butyl alc...	0.006	0.007	0.006	0.006	0.005			0.006	11.09	
22) T	Diisopropyl ether	0.672	0.718	0.849	0.874	0.899	0.878	0.877	0.824	10.95	
23) T	1,1-Dichloroet...	0.444	0.500	0.537	0.524	0.527	0.515	0.517	0.509	6.11	
24) T	Halothane	0.133	0.164	0.178	0.176	0.178	0.174	0.174	0.168	9.48	
25) T	Acrylonitrile	0.012	0.037	0.041	0.042	0.042	0.043	0.044	*L		0.9999
26) T	Ethyl tert-but...	0.464	0.490	0.583	0.611	0.634	0.629	0.615	0.575	12.09	
27) T	Vinyl acetate	0.220	0.247	0.306	0.330	0.353	0.354	0.359	0.310	17.98	
28) T	cis-1,2-Dichlo...	0.216	0.232	0.254	0.251	0.253	0.248	0.249	0.243	5.86	
29) T	2,2-Dichloropr...	0.254	0.290	0.342	0.333	0.328	0.304	0.266	0.303	11.25	
30) T	Bromochloromet...	0.083	0.087	0.092	0.091	0.092	0.092	0.091	0.090	4.11	
31) T	Cyclohexane	0.376	0.462	0.614	0.611	0.626	0.608	0.601	0.557	17.53	
32) T	Chloroform	0.374	0.396	0.429	0.416	0.418	0.407	0.411	0.407	4.38	
33) T	Ethyl acetate	0.093	0.082	0.093	0.100	0.105	0.108	0.110	0.099	10.11	

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2016\160808B\
 Method File : V108_1600808_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Tue Aug 09 13:29:40 2016
 Response Via : Initial Calibration

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34) T	Carbon tetrach...	0.289	0.331	0.379	0.371	0.382	0.373	0.373	0.357	9.69	
35) T	Tetrahydrofuran	0.016	0.027	0.036	0.036	0.037	0.037	0.038	*L	0.9998	
36) S	Dibromofluorom...	0.246	0.250	0.247	0.243	0.246	0.243	0.242	0.245	1.16	
37) T	1,1,1-Trichlor...	0.319	0.361	0.415	0.404	0.412	0.405	0.406	0.389	9.18	
39) T	2-Butanone	0.029	0.034	0.041	0.043	0.043	0.043	0.044	0.040	14.48	
40) T	1,1-Dichloropr...	0.245	0.296	0.350	0.347	0.355	0.349	0.350	0.327	12.64	
41) T	Benzene	0.839	0.899	1.011	0.987	0.998	0.980	0.986	0.957	6.62	
42) T	tert-Amyl meth...	0.260	0.287	0.352	0.373	0.393	0.393	0.396	0.350	15.89	
43) S	1,2-Dichloroet...	0.237	0.240	0.238	0.232	0.233	0.227	0.226	0.234	2.14	
44) T	1,2-Dichloroet...	0.240	0.245	0.258	0.251	0.248	0.242	0.242	0.246	2.60	
47) T	Methyl cyclohe...	0.263	0.333	0.416	0.417	0.429	0.420	0.419	0.385	16.34	
48) T	Trichloroethene	0.234	0.253	0.273	0.261	0.264	0.258	0.260	0.258	4.66	
50) T	Dibromomethane	0.078	0.080	0.087	0.087	0.086	0.084	0.085	0.084	4.23	
51) T	1,2-Dichloropr...	0.211	0.229	0.253	0.254	0.259	0.256	0.259	0.246	7.54	
53) T	2-Chloroethyl ...								0.000	-1.00	
54) T	Bromodichlorom...	0.230	0.241	0.265	0.267	0.274	0.270	0.274	0.260	6.66	
57) T	1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	11.88	
58) T	cis-1,3-Dichlo...	0.216	0.238	0.283	0.296	0.311	0.308	0.313	0.281	13.73	
59) I	Chlorobenzene-d5	-----ISTD-----									
60) S	Toluene-d8	1.352	1.350	1.360	1.357	1.344	1.334	1.327	1.356	1.347	0.88
61) T	Toluene	0.776	0.822	0.909	0.870	0.884	0.868	0.887	0.859	5.27	
62) T	4-Methyl-2-pen...	0.003	0.034	0.045	0.048	0.054	0.056	0.059	*L	0.9972	
63) T	Tetrachloroethene	0.320	0.344	0.385	0.362	0.370	0.365	0.370	0.359	5.92	
65) T	trans-1,3-Dich...	0.223	0.237	0.285	0.299	0.319	0.320	0.334	0.288	14.87	
67) T	Ethyl methacry...	0.072	0.110	0.150	0.178	0.202	0.208	0.219	*L	0.9959	
68) T	1,1,2-Trichlor...	0.109	0.131	0.147	0.140	0.142	0.140	0.144	0.136	9.61	
69) T	Chlorodibromom...	0.172	0.177	0.217	0.216	0.227	0.226	0.236	0.210	12.15	
70) T	1,3-Dichloropr...	0.249	0.275	0.309	0.302	0.306	0.303	0.312	0.294	7.85	
71) T	1,2-Dibromoethane	0.113	0.139	0.152	0.154	0.160	0.159	0.164	0.149	11.98	
72) T	2-Hexanone	0.016	0.045	0.065	0.075	0.085	0.088	0.092	*L	0.9964	
73) T	Chlorobenzene	0.836	0.856	0.933	0.897	0.914	0.896	0.911	0.892	3.85	

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2016\160808B\
 Method File : V108_1600808_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Tue Aug 09 13:29:40 2016
 Response Via : Initial Calibration

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74) T	Ethylbenzene	1.255	1.432	1.722	1.676	1.710	1.678	1.699	1.596	11.33	
75) T	1,1,1,2-Tetrac...	0.248	0.275	0.296	0.292	0.300	0.298	0.307	0.288	7.01	
76) T	p/m Xylene	0.499	0.562	0.687	0.661	0.678	0.662	0.661	0.630	11.26	
77) T	o Xylene	0.435	0.499	0.613	0.603	0.615	0.599	0.601	0.566	12.45	
78) T	Styrene	0.626	0.782	0.966	0.944	0.968	0.948	0.943	0.882	14.79	
79) I	1,4-Dichlorobenzene-d4	-----ISTD-----									
80) T	Bromoform	0.216	0.188	0.215	0.212	0.216	0.217	0.225	0.213	5.51	
82) T	Isopropylbenzene	2.803	3.168	3.788	3.644	3.674	3.617	3.671	3.481	10.30	
83) S	4-Bromofluorob...	1.024	1.019	0.993	0.967	0.954	0.952	0.940	0.966	0.977	3.23
84) T	Bromobenzene	0.619	0.652	0.674	0.656	0.656	0.648	0.666	0.653	2.64	
85) T	n-Propylbenzene	3.440	3.628	4.278	4.102	4.127	4.044	4.086	3.958	7.67	
86) T	1,4-Dichlorobu...	0.723	0.724	0.798	0.781	0.781	0.769	0.793	0.767	4.06	
87) T	1,1,2,2-Tetrac...	0.320	0.341	0.366	0.345	0.343	0.342	0.354	0.344	4.05	
88) T	4-Ethyltoluene	2.403	2.900	3.522	3.506	3.563	3.511	3.569	3.282	13.86	
89) T	2-Chlorotoluene	2.372	2.377	2.503	2.353	2.356	2.292	2.361	2.373	2.69	
90) T	1,3,5-Trimethy...	2.126	2.491	2.924	2.788	2.820	2.763	2.821	2.676	10.35	
91) T	1,2,3-Trichlor...	0.277	0.274	0.287	0.283	0.284	0.280	0.290	0.282	1.94	
92) T	trans-1,4-Dich...		0.085	0.109	0.113	0.118	0.117	0.123	*L	0.9995	
93) T	4-Chlorotoluene	2.049	2.137	2.381	2.297	2.313	2.275	2.341	2.256	5.28	
94) T	tert-Butylbenzene	2.136	2.293	2.780	2.696	2.760	2.711	2.771	2.592	10.19	
95) T	Pentachloroethane	0.298	0.340	0.391	0.391	0.405	0.406	0.414	0.378	11.34	
97) T	1,2,4-Trimethy...	1.703	2.000	2.608	2.609	2.698	2.676	2.758	2.436	16.91	
98) T	sec-Butylbenzene	2.545	2.930	3.631	3.484	3.582	3.508	3.554	3.319	12.51	
99) T	p-Isopropyltol...	1.678	1.992	2.697	2.718	2.848	2.805	2.873	2.516	19.00	
100) T	1,3-Dichlorobe...	1.387	1.288	1.427	1.359	1.364	1.340	1.362	1.361	3.13	
101) T	1,4-Dichlorobe...	1.438	1.258	1.327	1.287	1.304	1.276	1.305	1.313	4.50	
102) T	p-Diethylbenzene	0.737	0.978	1.419	1.524	1.621	1.607	1.663	*L	0.9991	
103) T	n-Butylbenzene	1.128	1.494	2.066	2.104	2.241	2.230	2.308	*L	0.9993	
104) T	1,2-Dichlorobe...	1.089	1.005	1.094	1.069	1.069	1.054	1.078	1.065	2.78	
105) T	1,2,4,5-Tetram...	0.803	1.068	1.716	1.873	1.902	1.876	1.911	*L	0.9995	
106) T	1,2-Dibromo-3-...		0.026	0.034	0.036	0.039	0.040	0.043	0.037	15.99	

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2016\160808B\
 Method File : V108_1600808_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Tue Aug 09 13:29:40 2016
 Response Via : Initial Calibration

Calibration Files

L11 =V08160808B03.D L1 =V08160808B05.D L2 =V08160808B07.D L3 =V08160808B08.D L4 =V08160808B09.D
 L6 =V08160808B10.D L8 =V08160808B11.D L10 =V08160808B12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
107) T	1,3,5-Trichlor...	0.398	0.519	0.652	0.676	0.700	0.701	0.726	0.625	19.39	
108) T	Hexachlorobuta...	0.224	0.235	0.238	0.236	0.242	0.247	0.257	0.240	4.39	
109) T	1,2,4-Trichlor...	0.152	0.224	0.340	0.406	0.454	0.470	0.494	*L	0.9960	
110) T	Naphthalene	0.168	0.223	0.381	0.500	0.584	0.627	0.666	*L	0.9917	
111) T	1,2,3-Trichlor...	0.090	0.161	0.240	0.283	0.311	0.330	0.344	*L	0.9960	

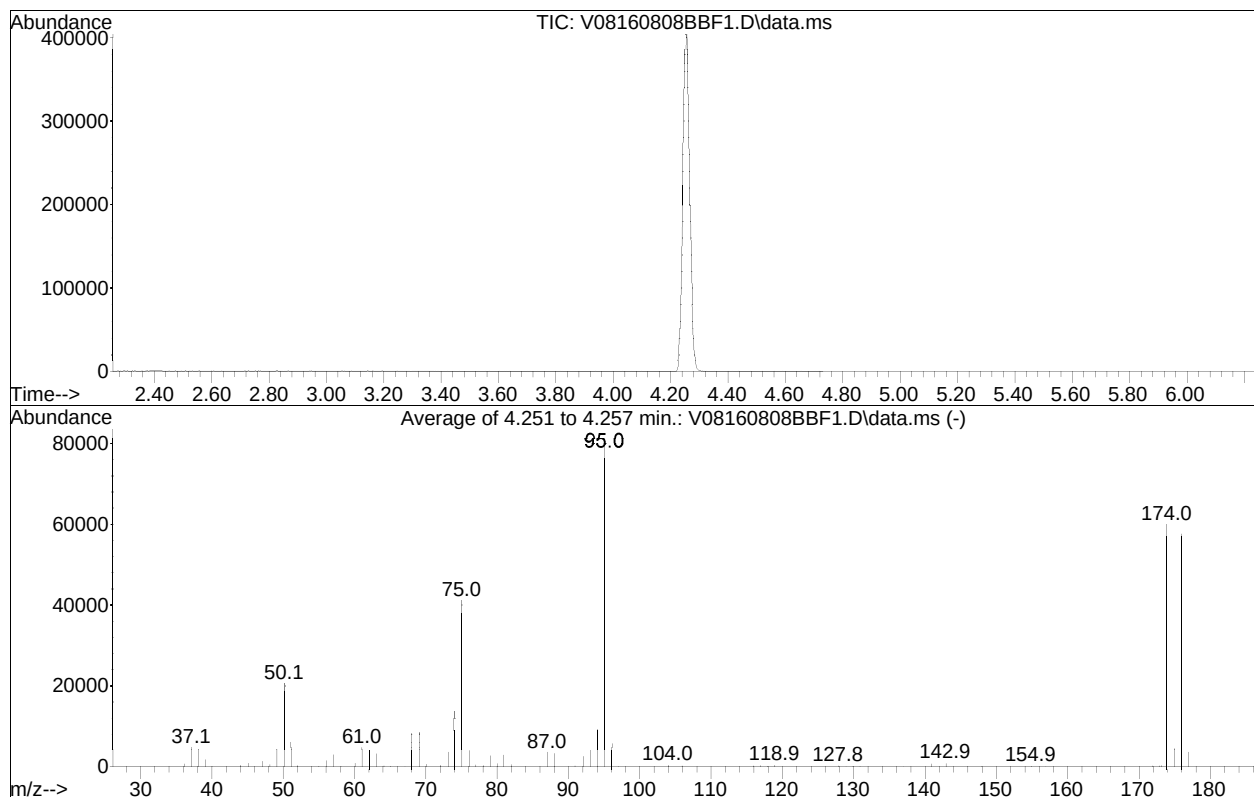
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808BBF1.D
 Acq On : 8 Aug 2016 14:31
 Operator : VOA108:PD
 Sample : WG921210-1
 Misc : WG921210
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Tue Aug 09 12:49:35 2016



AutoFind: Scans 1063, 1064, 1065; Background Corrected with Scan 1049

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	20557	PASS
75	95	30	60	51.6	41053	PASS
95	95	100	100	100.0	79533	PASS
96	95	5	9	7.3	5822	PASS
173	174	0.00	2	0.6	375	PASS
174	95	50	100	75.4	59955	PASS
175	174	5	9	7.6	4548	PASS
176	174	95	101	96.2	57683	PASS
177	176	5	9	6.1	3490	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B03.D
 Acq On : 8 Aug 2016 15:43
 Operator : VOA108:MS
 Sample : ISTD11
 Misc : WG921210
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 09 13:19:59 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-VC - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.924	96	280003	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	95.31%	
59) Chlorobenzene-d5	9.435	117	196535	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	95.59%	
79) 1,4-Dichlorobenzene-d4	12.157	152	76976	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	82.11%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	68957	10.047	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.47%	
43) 1,2-Dichloroethane-d4	5.646	65	66458	10.168	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.68%	
60) Toluene-d8	7.598	98	265649	10.032	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.32%	
83) 4-Bromofluorobenzene	10.941	95	78857	10.485	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.85%	
Target Compounds						
4) Vinyl chloride	1.875	62	1390	0.147	ug/L	97

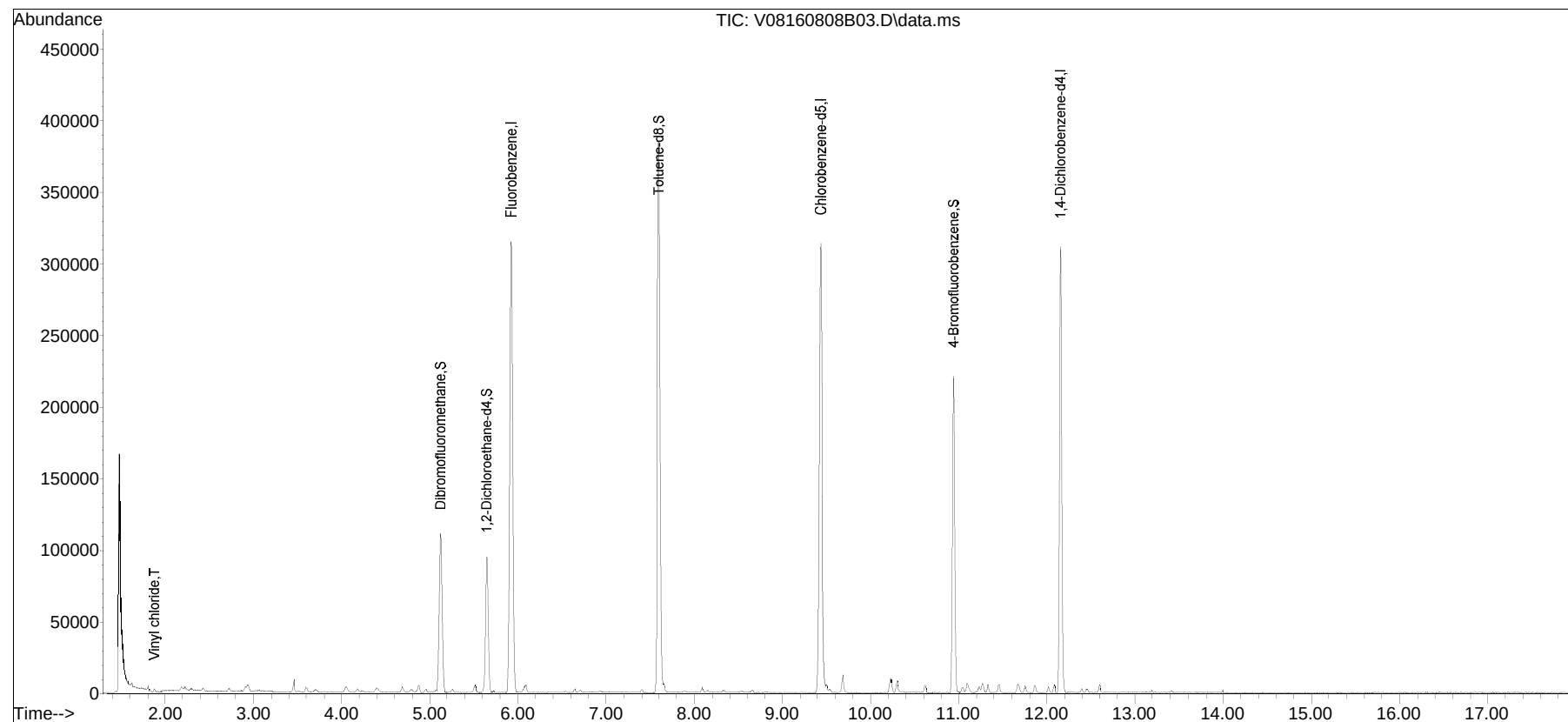
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B03.D
 Acq On : 8 Aug 2016 15:43
 Operator : VOA108:MS
 Sample : ISTD11
 Misc : WG921210
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 09 13:19:59 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

Sub List : 8260-VC - All compounds listed 60808B\V08160808B08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\1Q	Method	: V108_1600808_8260.m
Data File	: V08160808B03.D	Operator	: VOA108:MS
Date Inj'd	: 8/8/2016 15:43	Instrument	: VOA 108
Sample	: ISTD11	Quant Date	: 8/9/2016 1:19 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B05.D
 Acq On : 8 Aug 2016 16:39
 Operator : VOA108:MS
 Sample : ISTD1
 Misc : WG921210
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 13:20:09 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.927	96	278574	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery =	94.83%		
59) Chlorobenzene-d5	9.435	117	194831	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery =	94.76%		
79) 1,4-Dichlorobenzene-d4	12.154	152	79940	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery =	85.27%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.124	113	69735	10.212	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.12%		
43) 1,2-Dichloroethane-d4	5.646	65	66957	10.296	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.96%		
60) Toluene-d8	7.600	98	262926	10.016	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.16%		
83) 4-Bromofluorobenzene	10.941	95	81426	10.425	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.25%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.622	85	2865	0.418	ug/L	98
3) Chloromethane	1.797	50	4268	0.425	ug/L	99
4) Vinyl chloride	1.875	62	4104	0.435	ug/L	98
5) Bromomethane	2.188	94	1463	0.728	ug/L	93
6) Chloroethane	2.299	64	2352	0.457	ug/L	97
7) Trichlorofluoromethane	2.439	101	4113	0.414	ug/L	98
8) Ethyl ether	2.726	74	1016	0.470	ug/L	93
10) 1,1-Dichloroethene	2.916	96	2409	0.437	ug/L	92
11) Carbon disulfide	2.929	76	8467	0.454	ug/L	94
12) Freon-113	2.941	101	2228M1	0.406	ug/L	
13) Iodomethane	3.055	142	878M1	0.907	ug/L	
14) Acrolein	3.231	56	37	0.536	ug/L #	1
15) Methylene chloride	3.454	84	4734	0.435	ug/L	91
17) Acetone	3.507	43	676	0.667	ug/L #	44
18) trans-1,2-Dichloroethene	3.602	96	3097	0.461	ug/L	96
19) Methyl acetate	3.621	43	906	0.450	ug/L #	68
20) Methyl tert-butyl ether	3.702	73	3975	0.461	ug/L	91
21) tert-Butyl alcohol	3.800	59	405M1	2.484	ug/L	
22) Diisopropyl ether	4.053	45	9356	0.408	ug/L	92
23) 1,1-Dichloroethane	4.179	63	6179	0.436	ug/L	94
24) Halothane	4.235	117	1859	0.397	ug/L #	78

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B05.D
 Acq On : 8 Aug 2016 16:39
 Operator : VOA108:MS
 Sample : ISTD1
 Misc : WG921210
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 13:20:09 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.246	53	161	0.490	ug/L	# 68
26) Ethyl tert-butyl ether	4.396	59	6461	0.403	ug/L	84
27) Vinyl acetate	4.416	43	3065	0.355	ug/L	# 87
28) cis-1,2-Dichloroethene	4.692	96	3005	0.444	ug/L	# 54
29) 2,2-Dichloropropane	4.795	77	3539	0.420	ug/L	# 27
30) Bromochloromethane	4.873	128	1150	0.461	ug/L	82
31) Cyclohexane	4.865	56	5244	0.338	ug/L	93
32) Chloroform	4.948	83	5212	0.459	ug/L	99
33) Ethyl acetate	5.066	43	1297M1	0.471	ug/L	
34) Carbon tetrachloride	5.074	117	4023M1	0.405	ug/L	
35) Tetrahydrofuran	5.110	42	228M1	0.567	ug/L	
37) 1,1,1-Trichloroethane	5.132	97	4443M1	0.410	ug/L	
39) 2-Butanone	5.266	43	402M1	0.365	ug/L	
40) 1,1-Dichloropropene	5.264	75	3419	0.375	ug/L	96
41) Benzene	5.506	78	11685	0.438	ug/L	96
42) tert-Amyl methyl ether	5.612	73	3615M1	0.370	ug/L	
44) 1,2-Dichloroethane	5.715	62	3339	0.486	ug/L	99
47) Methyl cyclohexane	6.069	83	3664	0.341	ug/L	99
48) Trichloroethene	6.097	95	3266	0.455	ug/L	96
50) Dibromomethane	6.532	93	1090M1	0.467	ug/L	
51) 1,2-Dichloropropane	6.638	63	2939M1	0.429	ug/L	
53) 2-Chloroethyl vinyl ether	7.335	63	455M1	0.475	ug/L	
54) Bromodichloromethane	6.705	83	3205	0.442	ug/L	# 70
57) 1,4-Dioxane	6.920	88	1862	84.102	ug/L	90
58) cis-1,3-Dichloropropene	7.402	75	3013	0.385	ug/L	92
61) Toluene	7.659	92	7560	0.452	ug/L	100
62) 4-Methyl-2-pentanone	8.102	58	33	0.666	ug/L	# 1
63) Tetrachloroethene	8.086	166	3114	0.445	ug/L	90
65) trans-1,3-Dichloropropene	8.147	75	2175	0.387	ug/L	91
67) Ethyl methacrylate	8.337	69	703	0.763	ug/L	# 43
68) 1,1,2-Trichloroethane	8.334	83	1058	0.399	ug/L	96
69) Chlorodibromomethane	8.532	129	1672	0.408	ug/L	89
70) 1,3-Dichloropropane	8.652	76	2430	0.424	ug/L	# 67
71) 1,2-Dibromoethane	8.813	107	1098	0.379	ug/L	89
72) 2-Hexanone	9.123	43	160	0.746	ug/L	# 35
73) Chlorobenzene	9.452	112	8141	0.469	ug/L	97
74) Ethylbenzene	9.497	91	12222	0.393	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.536	131	2416M1	0.430	ug/L	
76) p/m Xylene	9.681	106	9719	0.792	ug/L	# 31
77) o Xylene	10.227	106	8482	0.769	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B05.D
 Acq On : 8 Aug 2016 16:39
 Operator : VOA108:MS
 Sample : ISTD1
 Misc : WG921210
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 13:20:09 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.297	104	12188	0.709	ug/L	94
80)	Bromoform	10.317	173	864M1	0.508	ug/L	
82)	Isopropylbenzene	10.618	105	11204	0.403	ug/L	71
84)	Bromobenzene	11.050	156	2476M1	0.474	ug/L	
85)	n-Propylbenzene	11.100	91	13750	0.435	ug/L	97
86)	1,4-Dichlorobutane	11.122	55	2891	0.472	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.195	83	1279	0.465	ug/L #	93
88)	4-Ethyltoluene	11.226	105	9603	0.366	ug/L	100
89)	2-Chlorotoluene	11.270	91	9479	0.500	ug/L	97
90)	1,3,5-Trimethylbenzene	11.323	105	8497	0.397	ug/L #	73
91)	1,2,3-Trichloropropane	11.332	75	1109M1	0.492	ug/L	
92)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d	
93)	4-Chlorotoluene	11.454	91	8188	0.454	ug/L #	100
94)	tert-Butylbenzene	11.669	119	8536	0.412	ug/L #	90
95)	Pentachloroethane	11.686	167	1191	0.394	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.750	105	6806	0.350	ug/L	99
98)	sec-Butylbenzene	11.856	105	10173	0.383	ug/L	96
99)	p-Isopropyltoluene	12.018	119	6707	0.333	ug/L	96
100)	1,3-Dichlorobenzene	12.079	146	5543	0.510	ug/L	97
101)	1,4-Dichlorobenzene	12.174	146	5746	0.547	ug/L #	85
102)	p-Diethylbenzene	12.394	119	2947	0.658	ug/L #	86
103)	n-Butylbenzene	12.447	91	4510	0.627	ug/L	97
104)	1,2-Dichlorobenzene	12.598	146	4352	0.511	ug/L	97
105)	1,2,4,5-Tetramethylben...	13.194	119	3209	0.638	ug/L	97
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
107)	1,3,5-Trichlorobenzene	13.409	180	1589	0.318	ug/L #	83
108)	Hexachlorobutadiene	13.992	225	894	0.467	ug/L	91
109)	1,2,4-Trichlorobenzene	14.028	180	607	0.777	ug/L #	85
110)	Naphthalene	14.321	128	671	0.880	ug/L	100
111)	1,2,3-Trichlorobenzene	14.491	180	360	0.763	ug/L #	81

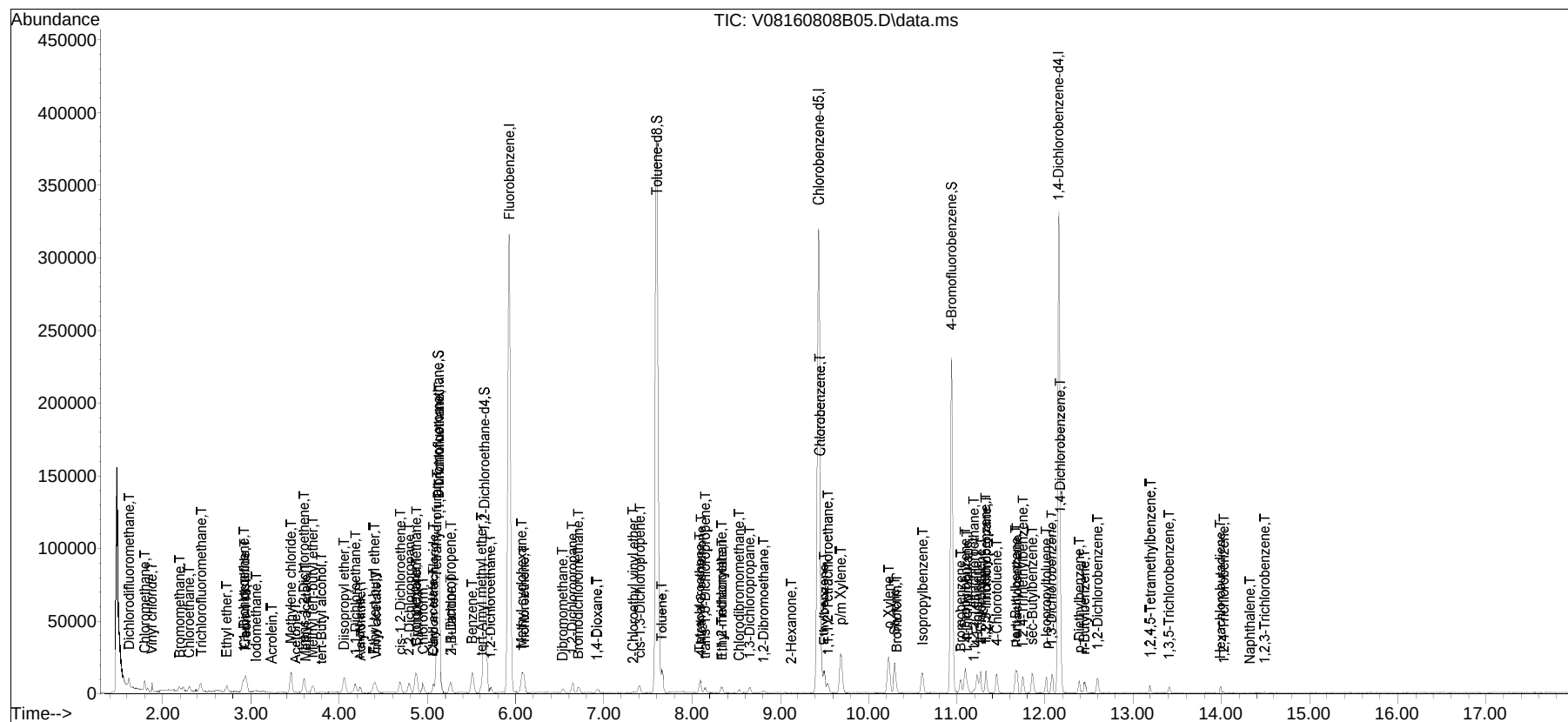
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data File : V08160808B05.D  
Acq On    : 8 Aug 2016 16:39  
Operator  : VOA108:MS  
Sample    : ISTD1  
Misc      : WG921210  
ALS Vial  : 5      Sample Multiplier: 1
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Quant Time: Aug 09 13:20:09 2016
Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_160808_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Aug 09 12:49:35 2016
Response via : Initial Calibration

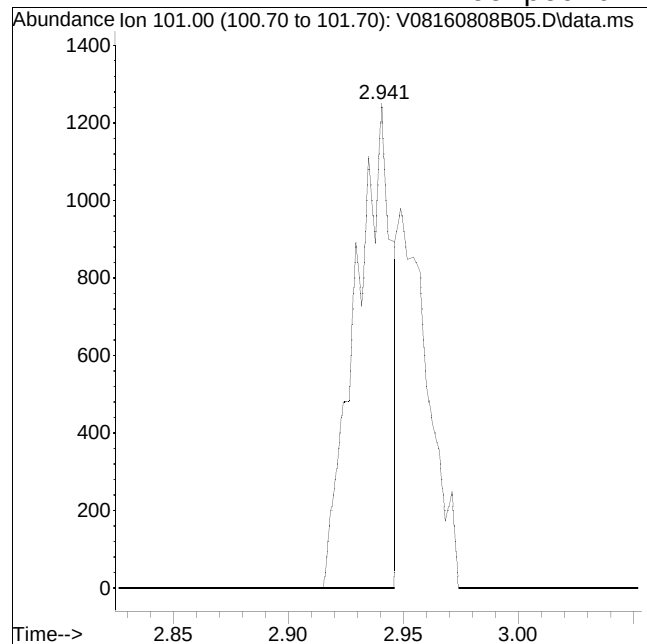
Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

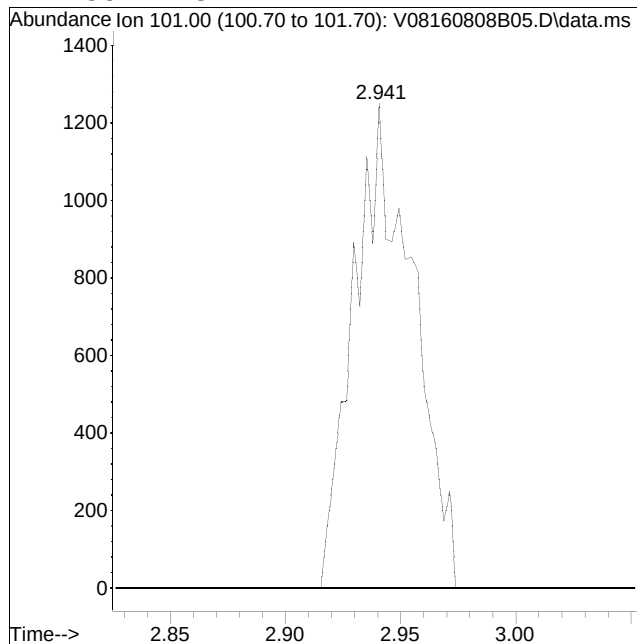
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Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #12: Freon-113



Original Peak Response = 1355

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

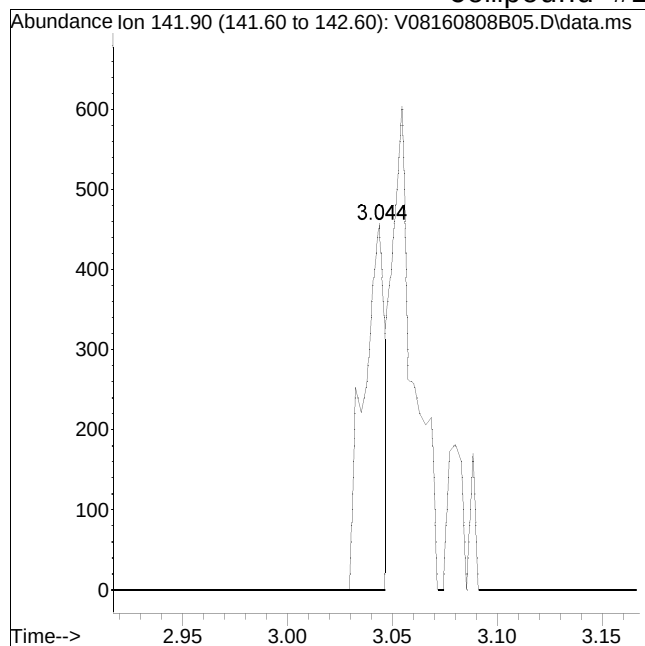


Manual Peak Response = 2228 M1

Manual Integration Report

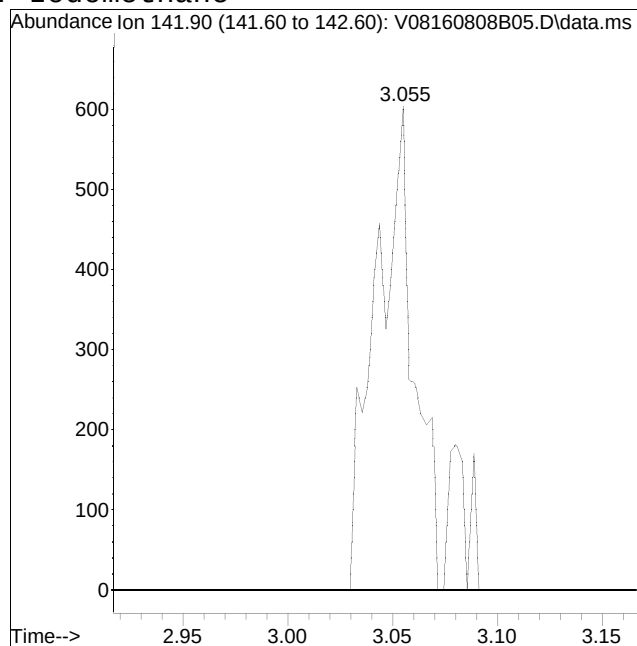
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Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #13: Iodomethane



Original Peak Response = 318

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

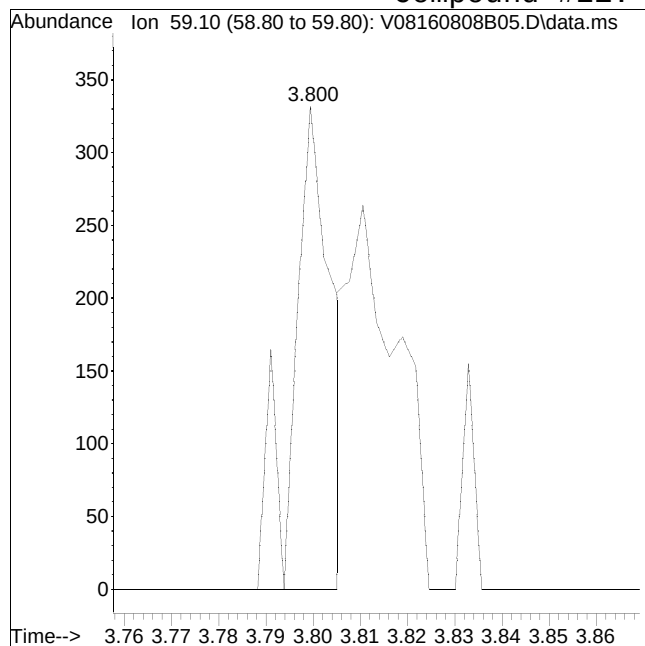


Manual Peak Response = 878 M1

Manual Integration Report

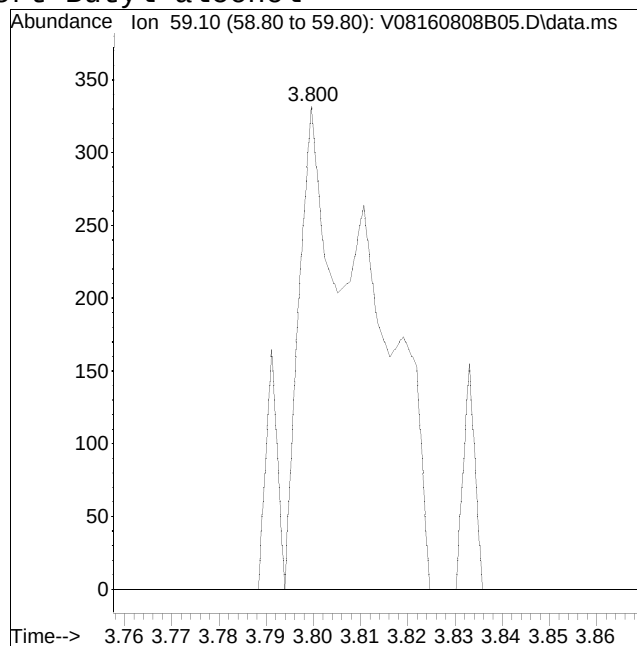
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #21: tert-Butyl alcohol



Original Peak Response = 188

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

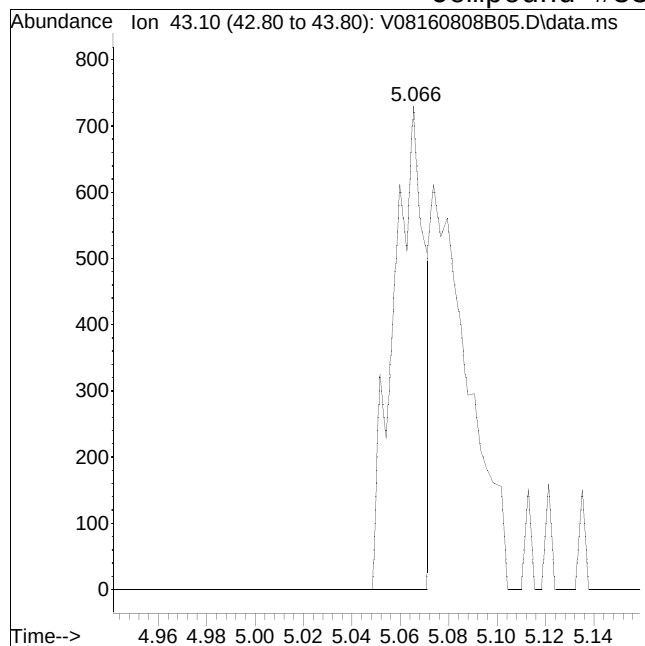


Manual Peak Response = 405 M1

Manual Integration Report

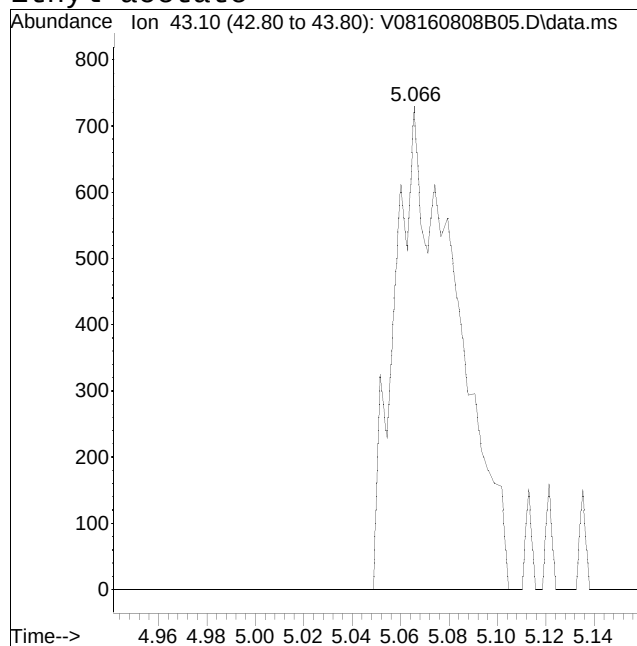
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #33: Ethyl acetate



Original Peak Response = 650

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

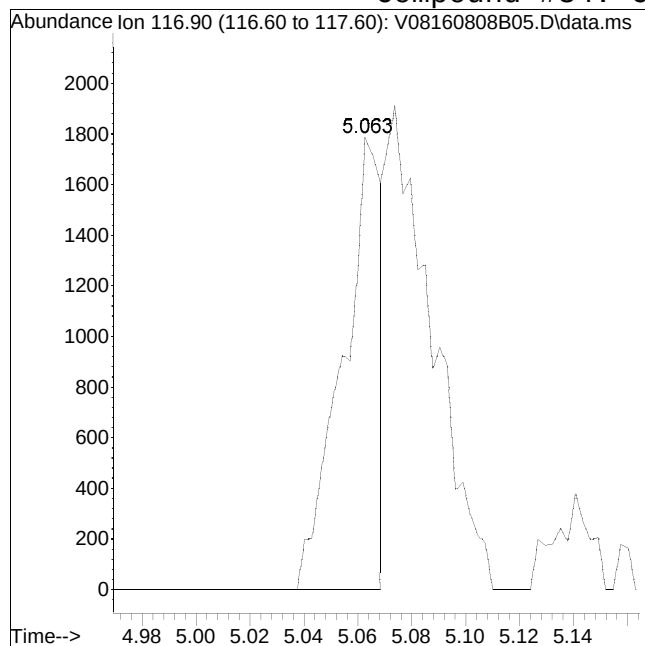


Manual Peak Response = 1297 M1

Manual Integration Report

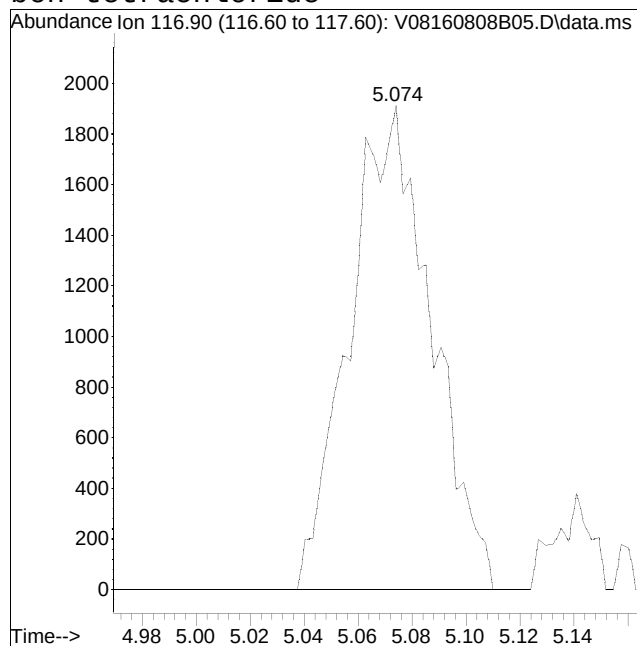
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #34: Carbon tetrachloride



Original Peak Response = 1744

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

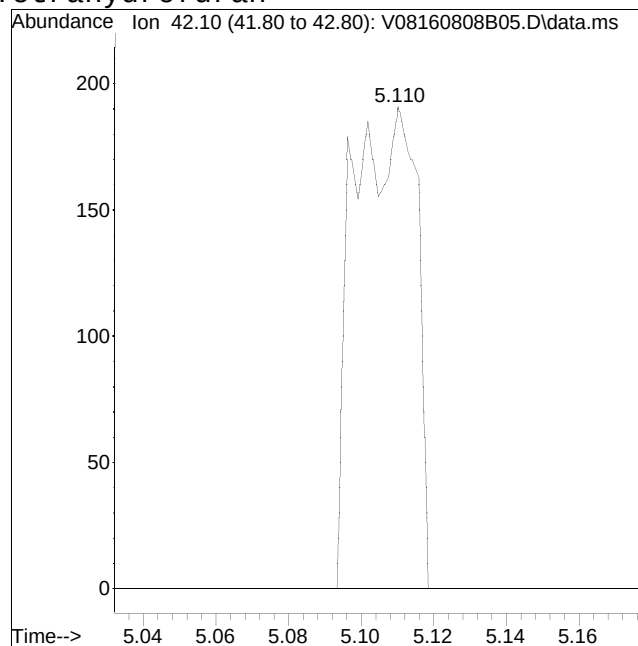
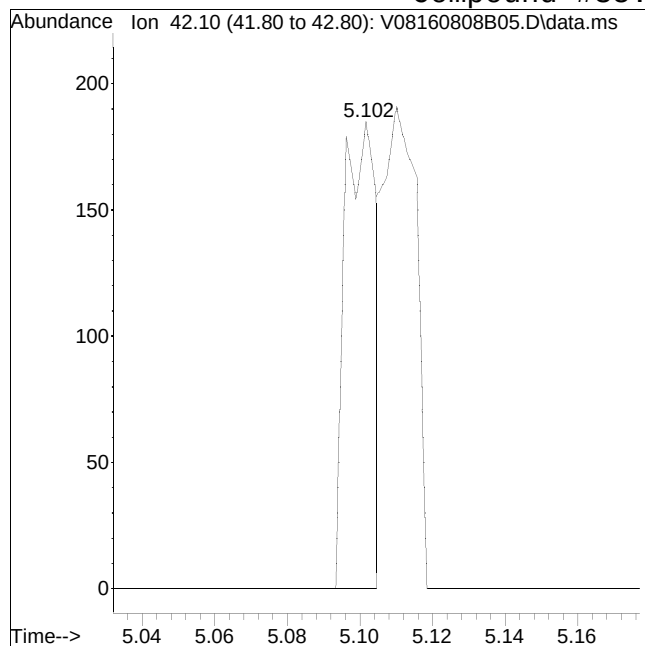


Manual Peak Response = 4023 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 113

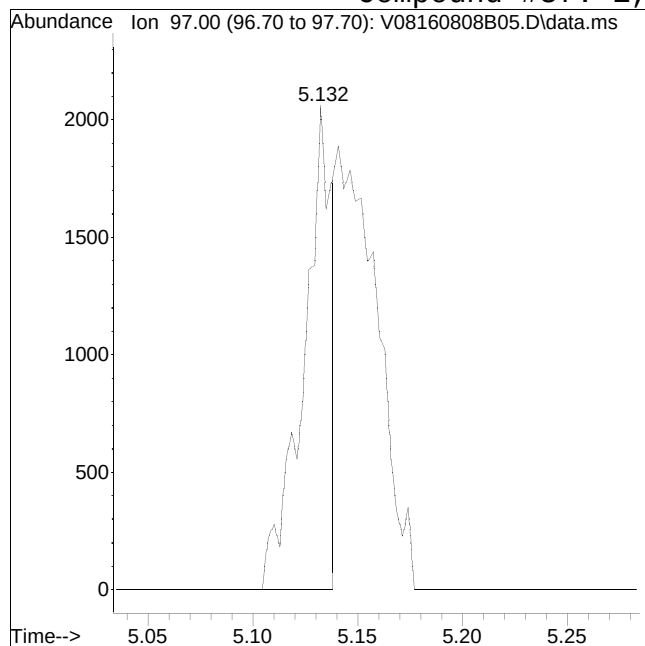
Manual Peak Response = 228 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

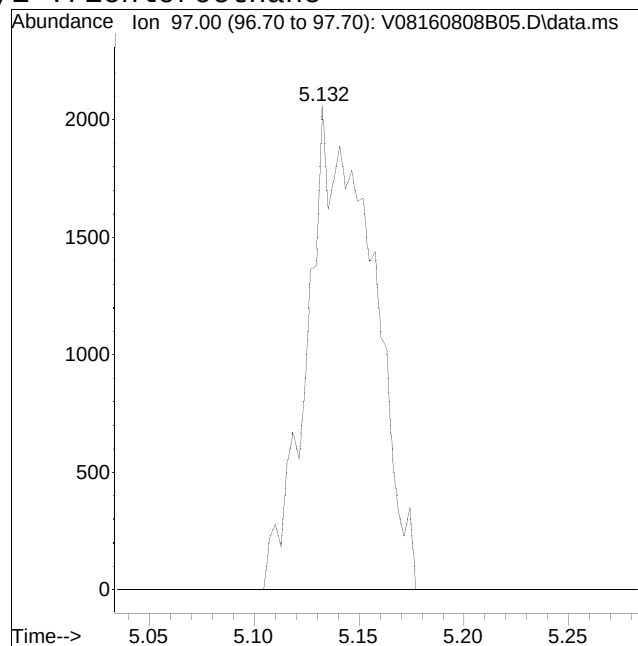
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #37: 1,1,1-Trichloroethane



Original Peak Response = 1914

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

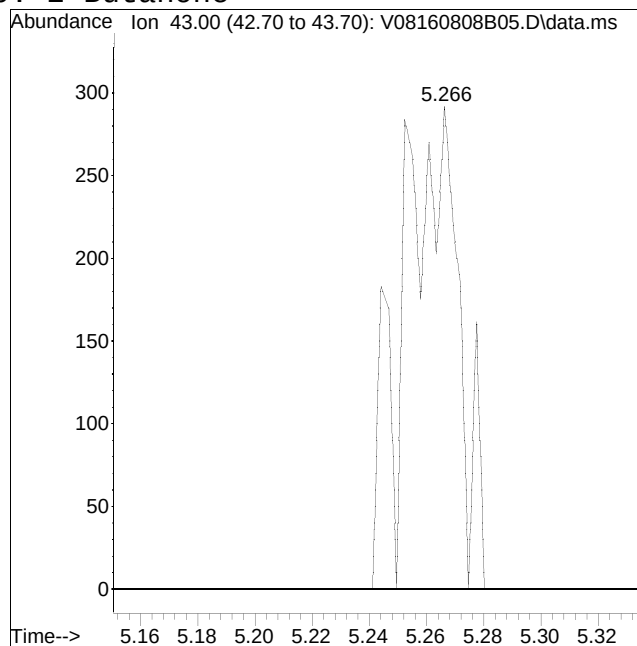
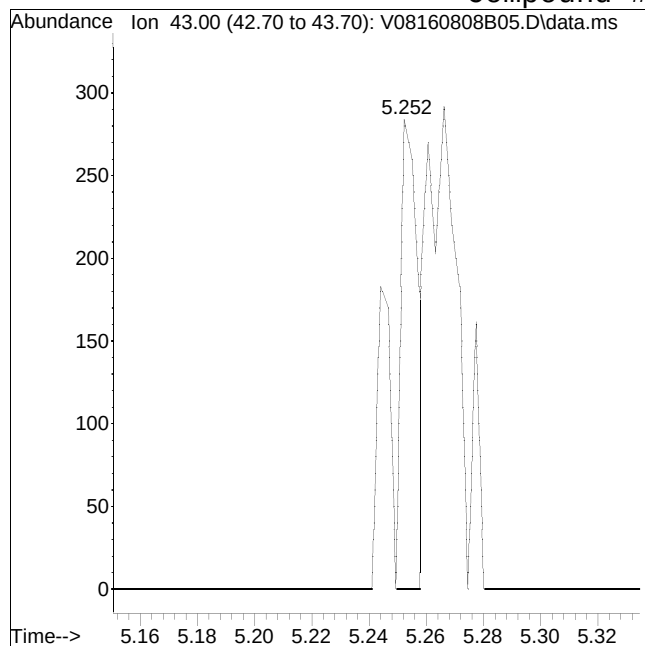


Manual Peak Response = 4443 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #39: 2-Butanone



Original Peak Response = 120

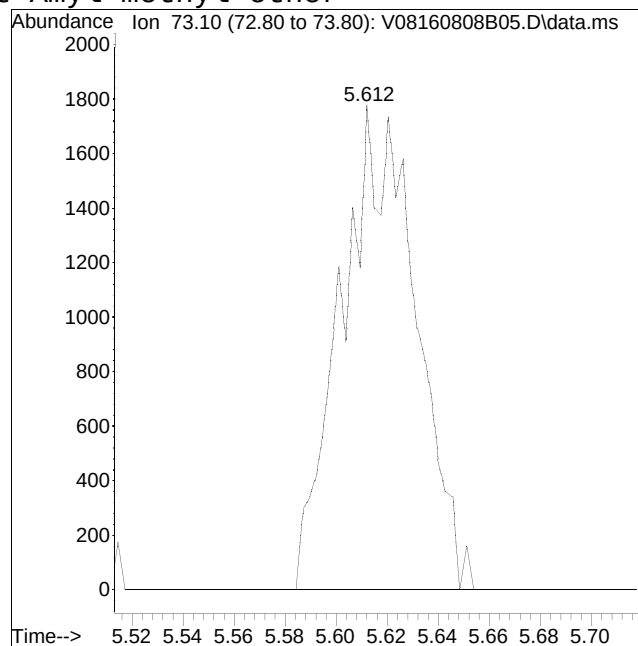
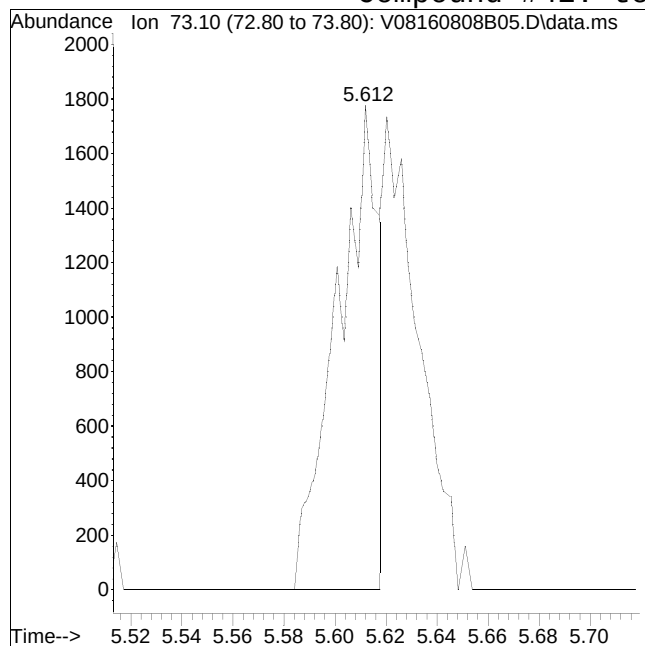
Manual Peak Response = 402 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #42: tert-Amyl methyl ether



Original Peak Response = 1974

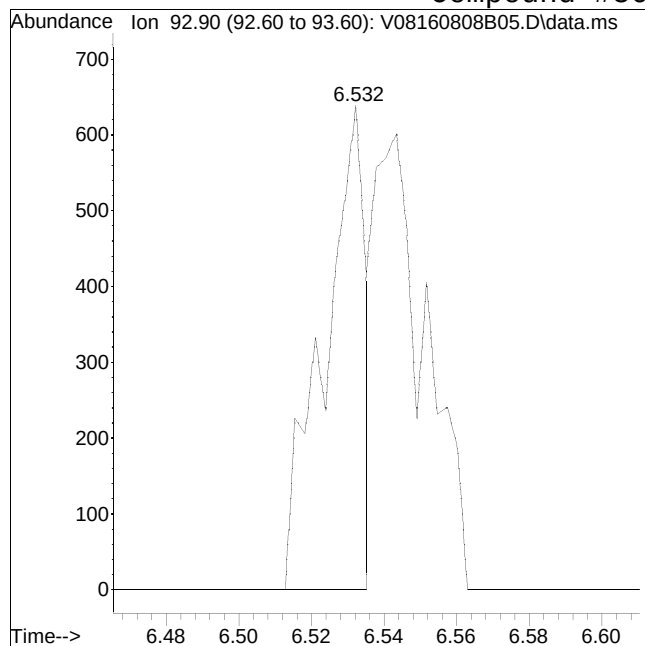
Manual Peak Response = 3615 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

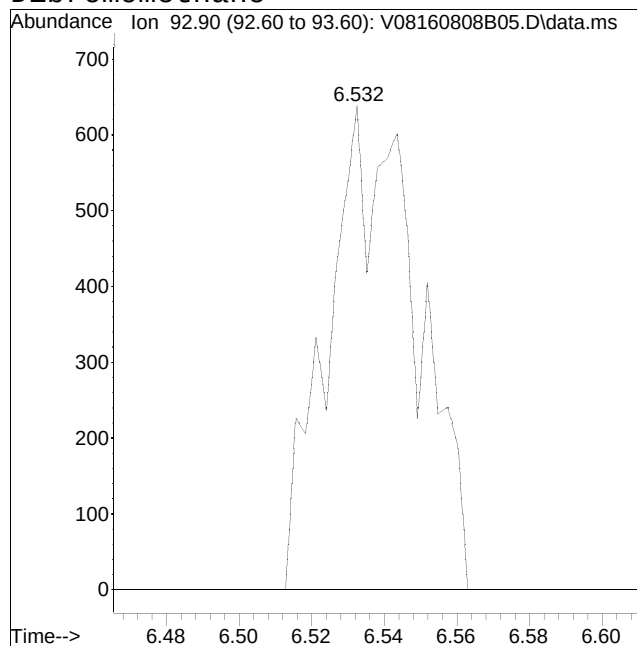
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #50: Dibromomethane



Original Peak Response = 504

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

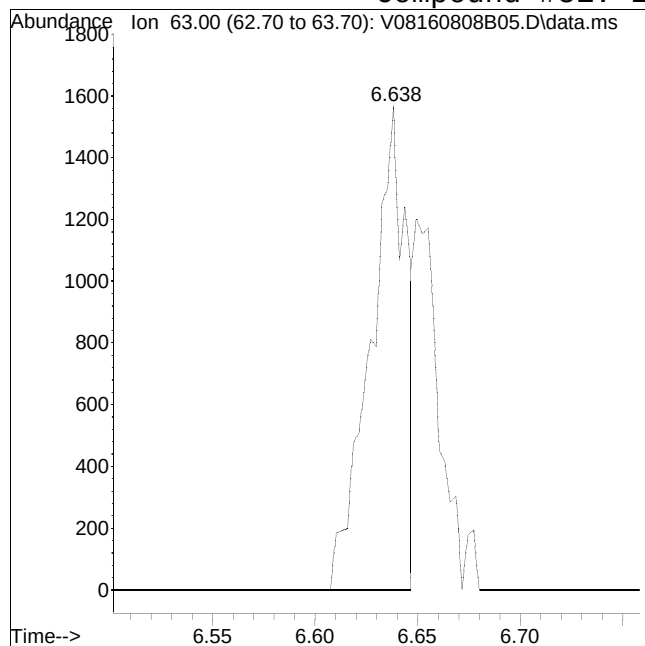


Manual Peak Response = 1090 M1

Manual Integration Report

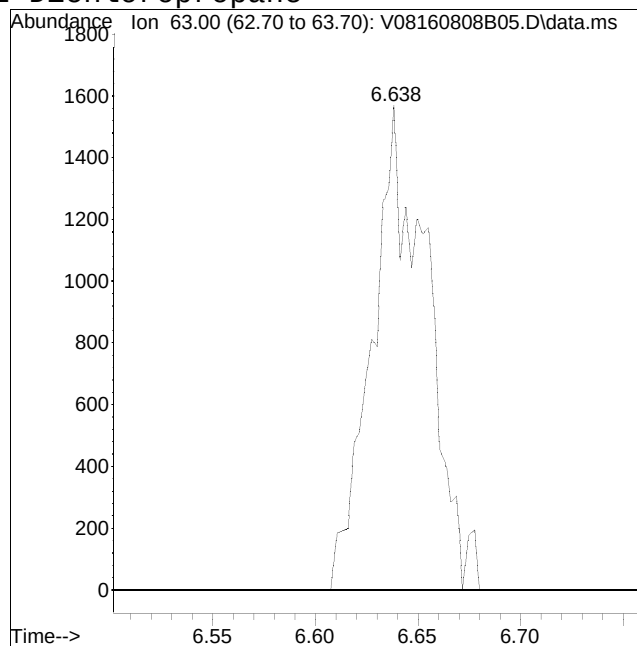
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #51: 1,2-Dichloropropane



Original Peak Response = 1891

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

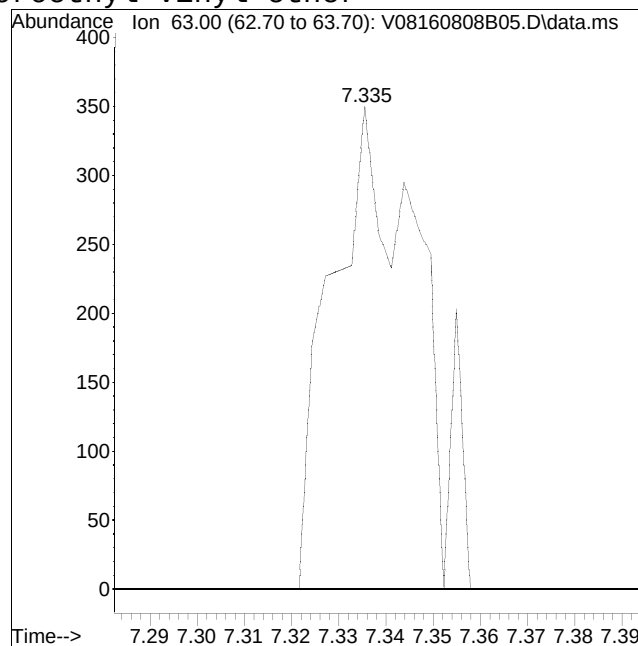
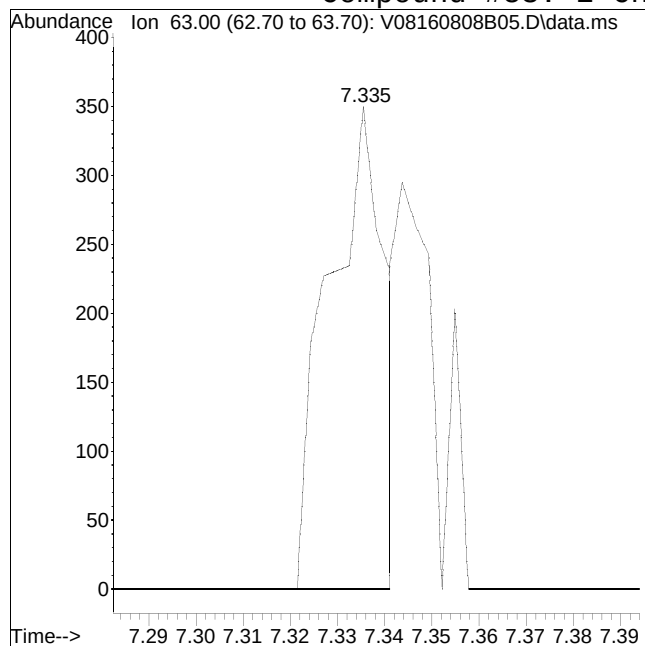


Manual Peak Response = 2939 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 287

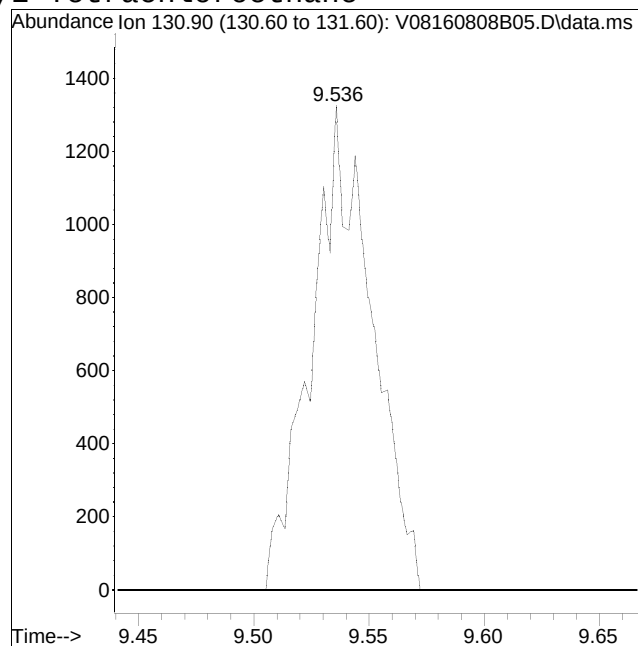
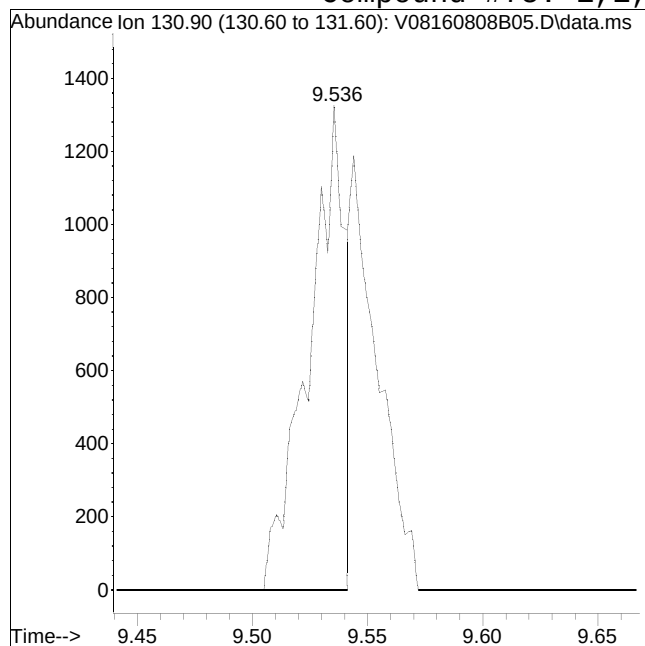
Manual Peak Response = 455 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #75: 1,1,1,2-Tetrachloroethane



Original Peak Response = 1460

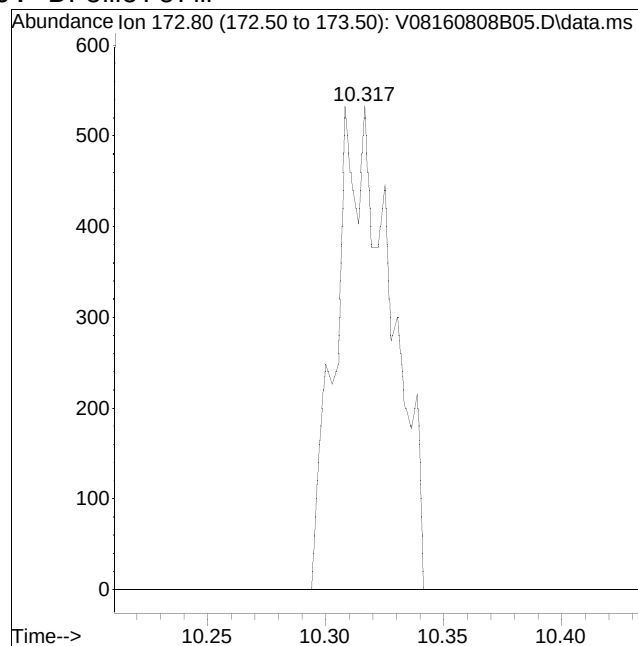
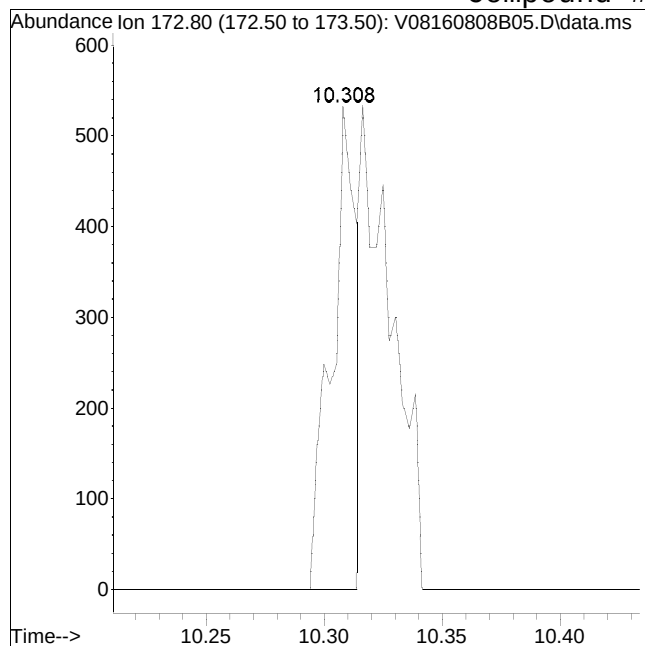
Manual Peak Response = 2416 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #80: Bromoform



Original Peak Response = 377

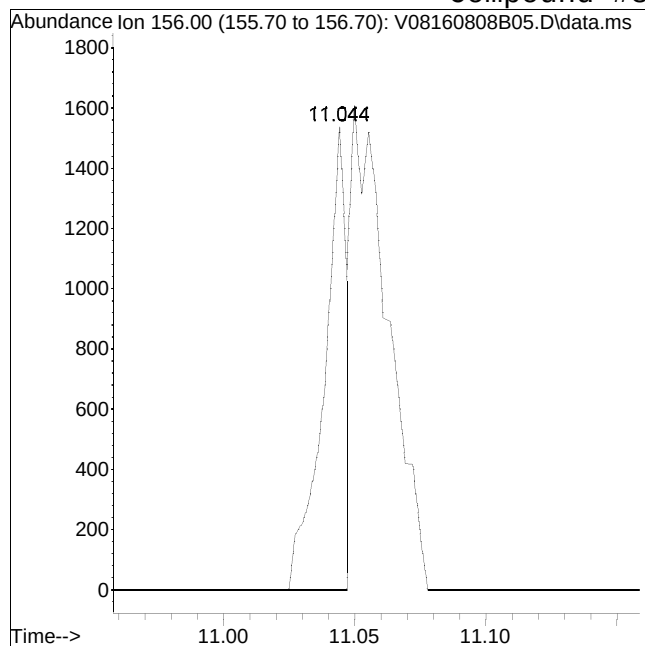
Manual Peak Response = 864 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

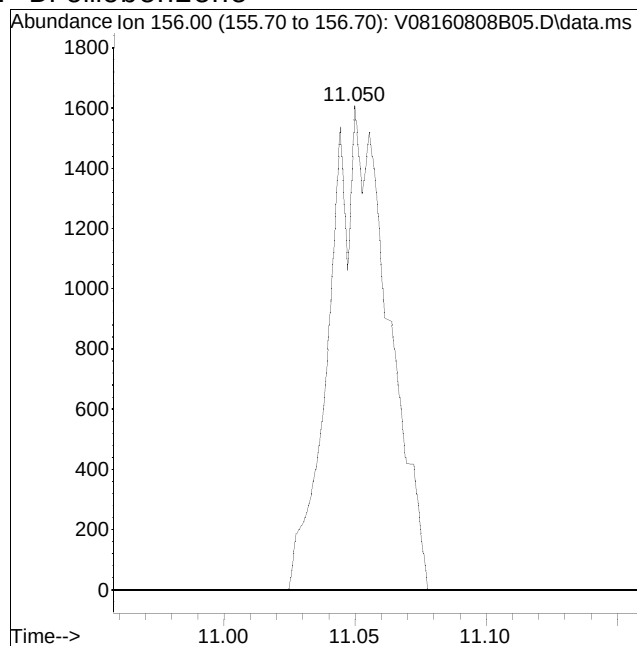
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #84: Bromobenzene



Original Peak Response = 931

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

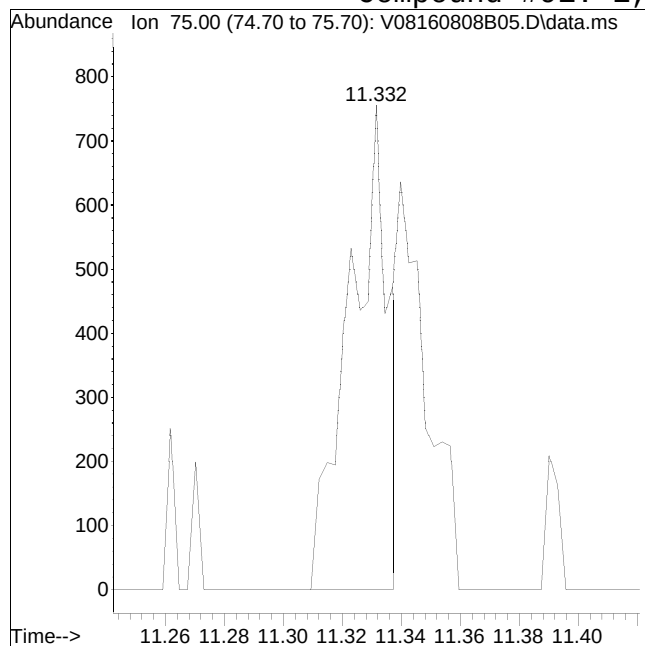


Manual Peak Response = 2476 M1

Manual Integration Report

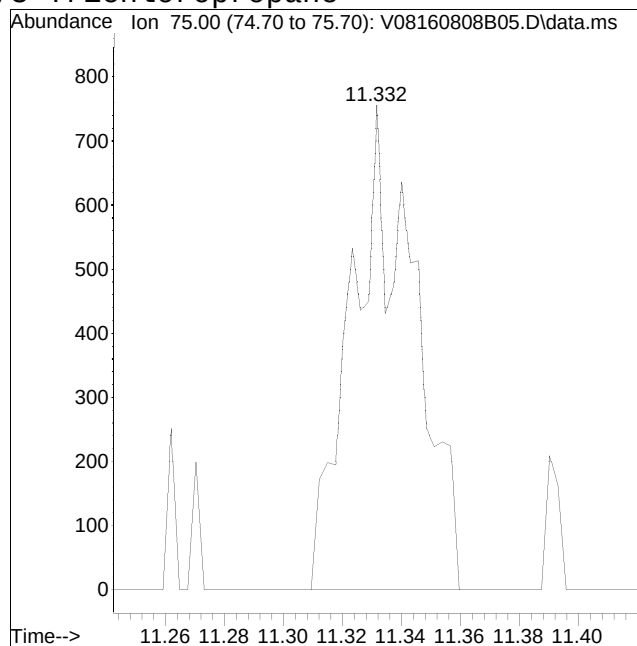
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B05.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 16:39 Instrument : VOA 108
Sample : ISTD1 Quant Date : 8/9/2016 1:20 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 677

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 1109 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B07.D
 Acq On : 8 Aug 2016 17:35
 Operator : VOA108:MS
 Sample : ISTD2
 Misc : WG921210
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 13:20:18 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.924	96	280017	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	95.32%	
59) Chlorobenzene-d5	9.435	117	194836	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	94.76%	
79) 1,4-Dichlorobenzene-d4	12.157	152	85434	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	91.13%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.124	113	69248	10.089	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.89%	
43) 1,2-Dichloroethane-d4	5.651	65	66534	10.179	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.79%	
60) Toluene-d8	7.600	98	265045	10.096	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.96%	
83) 4-Bromofluorobenzene	10.941	95	84858	10.166	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.66%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.621	85	13071	1.895	ug/L	97
3) Chloromethane	1.800	50	19824	1.963	ug/L	98
4) Vinyl chloride	1.878	62	18984	2.003	ug/L	98
5) Bromomethane	2.185	94	4014	1.725	ug/L	91
6) Chloroethane	2.302	64	11104	2.148	ug/L	100
7) Trichlorofluoromethane	2.433	101	19228	1.924	ug/L	99
8) Ethyl ether	2.728	74	4379	2.015	ug/L	89
10) 1,1-Dichloroethene	2.910	96	10559	1.905	ug/L	95
11) Carbon disulfide	2.938	76	35706	1.903	ug/L	99
12) Freon-113	2.946	101	10705	1.942	ug/L	86
13) Iodomethane	3.046	142	4068M1	1.506	ug/L	
14) Acrolein	3.230	56	763	1.948	ug/L	85
15) Methylene chloride	3.454	84	13883	2.041	ug/L	93
17) Acetone	3.509	43	1786	1.861	ug/L #	66
18) trans-1,2-Dichloroethene	3.604	96	12840	1.901	ug/L	98
19) Methyl acetate	3.626	43	3913	1.935	ug/L #	93
20) Methyl tert-butyl ether	3.704	73	16458	1.900	ug/L #	89
21) tert-Butyl alcohol	3.805	59	1832	11.178	ug/L #	71
22) Diisopropyl ether	4.053	45	40216	1.743	ug/L	91
23) 1,1-Dichloroethane	4.184	63	28008	1.965	ug/L	96
24) Halothane	4.237	117	9209	1.956	ug/L #	60

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B07.D
 Acq On : 8 Aug 2016 17:35
 Operator : VOA108:MS
 Sample : ISTD2
 Misc : WG921210
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 13:20:18 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

25) Acrylonitrile	4.237	53	2098M1	2.095	ug/L	
26) Ethyl tert-butyl ether	4.399	59	27425	1.703	ug/L	85
27) Vinyl acetate	4.416	43	13812	1.593	ug/L	100
28) cis-1,2-Dichloroethene	4.692	96	12976	1.905	ug/L	100
29) 2,2-Dichloropropane	4.792	77	16260	1.920	ug/L #	86
30) Bromochloromethane	4.878	128	4849	1.932	ug/L #	67
31) Cyclohexane	4.870	56	25859	1.658	ug/L	89
32) Chloroform	4.948	83	22194	1.946	ug/L	99
33) Ethyl acetate	5.065	43	4602M1	1.661	ug/L	
34) Carbon tetrachloride	5.071	117	18533	1.854	ug/L	97
35) Tetrahydrofuran	5.113	42	1528M1	1.804	ug/L	
37) 1,1,1-Trichloroethane	5.143	97	20219	1.857	ug/L #	94
39) 2-Butanone	5.261	43	1914	1.729	ug/L	88
40) 1,1-Dichloropropene	5.266	75	16576	1.809	ug/L	99
41) Benzene	5.506	78	50374	1.880	ug/L	98
42) tert-Amyl methyl ether	5.615	73	16052	1.636	ug/L	96
44) 1,2-Dichloroethane	5.715	62	13702	1.986	ug/L	99
47) Methyl cyclohexane	6.078	83	18673M1	1.731	ug/L	
48) Trichloroethene	6.092	95	14173	1.964	ug/L	96
50) Dibromomethane	6.535	93	4455	1.897	ug/L	92
51) 1,2-Dichloropropane	6.641	63	12818	1.862	ug/L	98
53) 2-Chloroethyl vinyl ether	7.332	63	2603M1	1.896	ug/L	
54) Bromodichloromethane	6.711	83	13522	1.856	ug/L #	98
57) 1,4-Dioxane	6.928	88	9742	437.757	ug/L	96
58) cis-1,3-Dichloropropene	7.399	75	13332	1.696	ug/L #	89
61) Toluene	7.659	92	32040	1.914	ug/L	97
62) 4-Methyl-2-pentanone	8.113	58	1341	1.856	ug/L #	56
63) Tetrachloroethene	8.088	166	13413	1.916	ug/L	96
65) trans-1,3-Dichloropropene	8.147	75	9237	1.645	ug/L	88
67) Ethyl methacrylate	8.345	69	4297M1	1.641	ug/L	
68) 1,1,2-Trichloroethane	8.328	83	5101	1.924	ug/L	99
69) Chlorodibromomethane	8.534	129	6888	1.682	ug/L	95
70) 1,3-Dichloropropane	8.654	76	10729	1.873	ug/L #	70
71) 1,2-Dibromoethane	8.808	107	5399	1.864	ug/L	96
72) 2-Hexanone	9.128	43	1736M1	1.661	ug/L	
73) Chlorobenzene	9.455	112	33338	1.919	ug/L	90
74) Ethylbenzene	9.494	91	55799	1.794	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.541	131	10730	1.912	ug/L	100
76) p/m Xylene	9.686	106	43826	3.572	ug/L	91
77) o Xylene	10.227	106	38900	3.524	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B07.D
 Acq On : 8 Aug 2016 17:35
 Operator : VOA108:MS
 Sample : ISTD2
 Misc : WG921210
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 13:20:18 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.297	104	60924	3.544	ug/L	95
80)	Bromoform	10.314	173	3210	1.765	ug/L	98
82)	Isopropylbenzene	10.615	105	54124	1.820	ug/L	100
84)	Bromobenzene	11.055	156	11145	1.997	ug/L	97
85)	n-Propylbenzene	11.097	91	61983	1.833	ug/L	96
86)	1,4-Dichlorobutane	11.125	55	12363	1.887	ug/L	100
87)	1,1,2,2-Tetrachloroethane	11.198	83	5828	1.981	ug/L	98
88)	4-Ethyltoluene	11.228	105	49544	1.767	ug/L	98
89)	2-Chlorotoluene	11.264	91	40608	2.003	ug/L	96
90)	1,3,5-Trimethylbenzene	11.329	105	42563	1.862	ug/L #	76
91)	1,2,3-Trichloropropane	11.331	75	4675	1.940	ug/L	97
92)	trans-1,4-Dichloro-2-b...	11.387	53	1451	2.136	ug/L #	70
93)	4-Chlorotoluene	11.451	91	36518	1.895	ug/L #	100
94)	tert-Butylbenzene	11.669	119	39180	1.769	ug/L	97
95)	Pentachloroethane	11.688	167	5805	1.799	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.750	105	34172	1.642	ug/L	97
98)	sec-Butylbenzene	11.861	105	50059	1.765	ug/L	99
99)	p-Isopropyltoluene	12.017	119	34037	1.584	ug/L	97
100)	1,3-Dichlorobenzene	12.079	146	22000	1.892	ug/L	99
101)	1,4-Dichlorobenzene	12.171	146	21499	1.916	ug/L	95
102)	p-Diethylbenzene	12.394	119	16703	1.630	ug/L	99
103)	n-Butylbenzene	12.452	91	25528	1.698	ug/L	98
104)	1,2-Dichlorobenzene	12.600	146	17174	1.887	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.191	119	18245	1.550	ug/L	95
106)	1,2-Dibromo-3-chloropr...	13.384	155	451	1.446	ug/L	88
107)	1,3,5-Trichlorobenzene	13.415	180	8863	1.661	ug/L	97
108)	Hexachlorobutadiene	13.992	225	4011	1.959	ug/L	94
109)	1,2,4-Trichlorobenzene	14.022	180	3819	1.560	ug/L #	90
110)	Naphthalene	14.326	128	3809	1.457	ug/L	100
111)	1,2,3-Trichlorobenzene	14.488	180	2757	1.605	ug/L	97

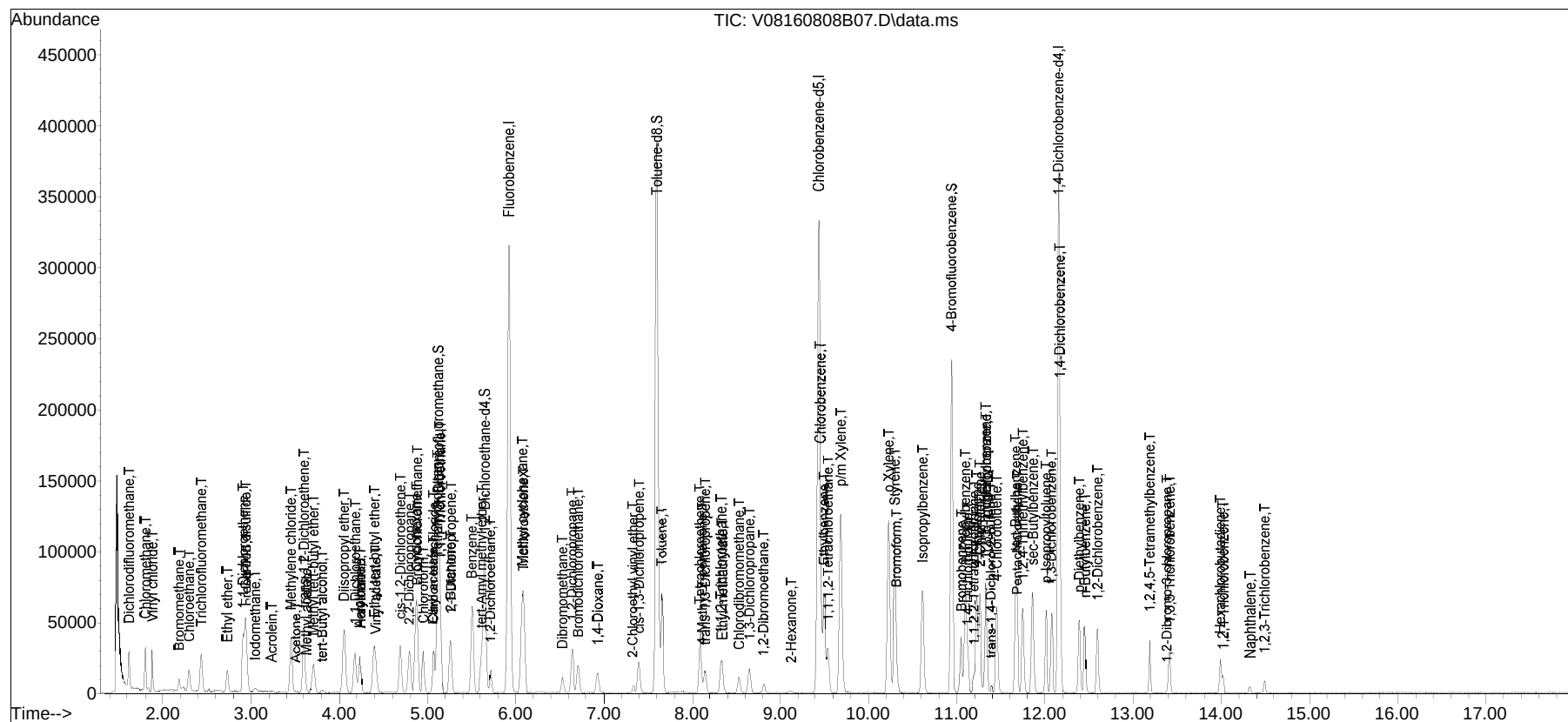
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : I:\VOLATILES\VOA108\2016\160808B\  
Data File  : V08160808B07.D  
Acq On     : 8 Aug 2016 17:35  
Operator   : VOA108:MS  
Sample     : ISTD12  
Misc       : WG921210  
ALS Vial   : 7      Sample Multiplier: 1
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Quant Time: Aug 09 13:20:18 2016
Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_160808_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Aug 09 12:49:35 2016
Response via : Initial Calibration

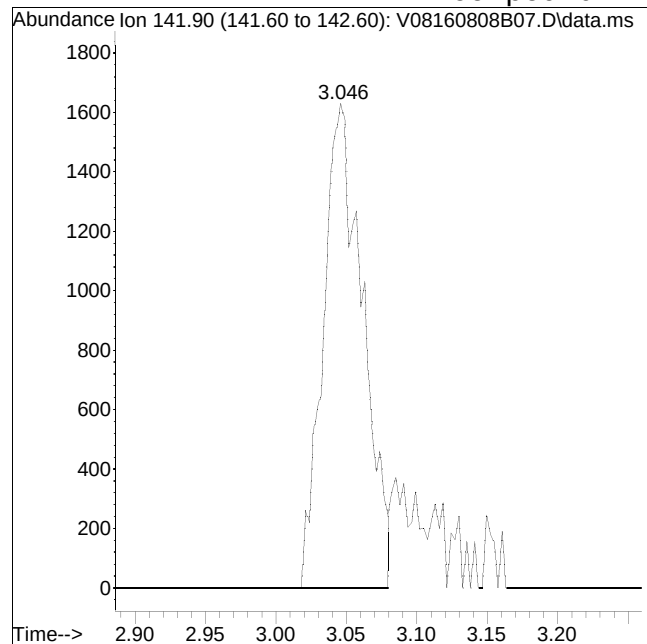
Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

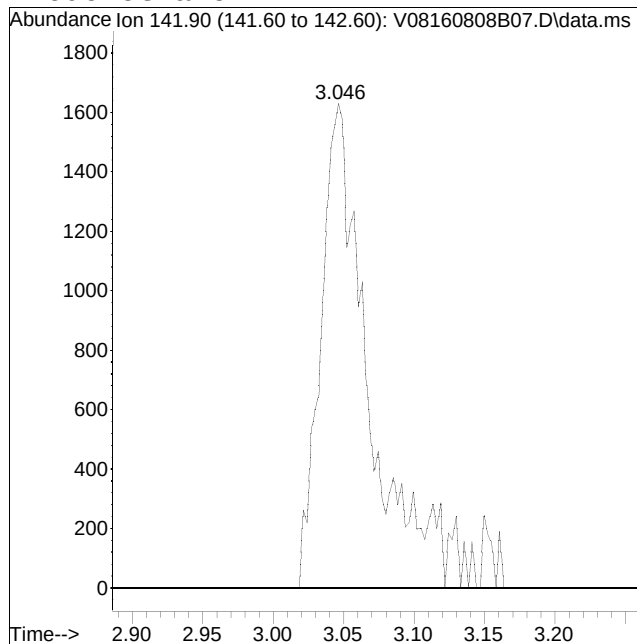
Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #13: Iodomethane



Original Peak Response = 3178

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

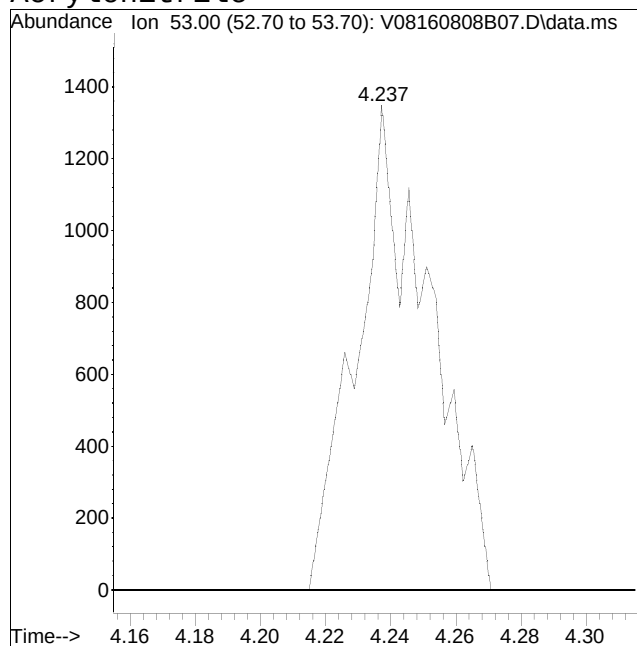
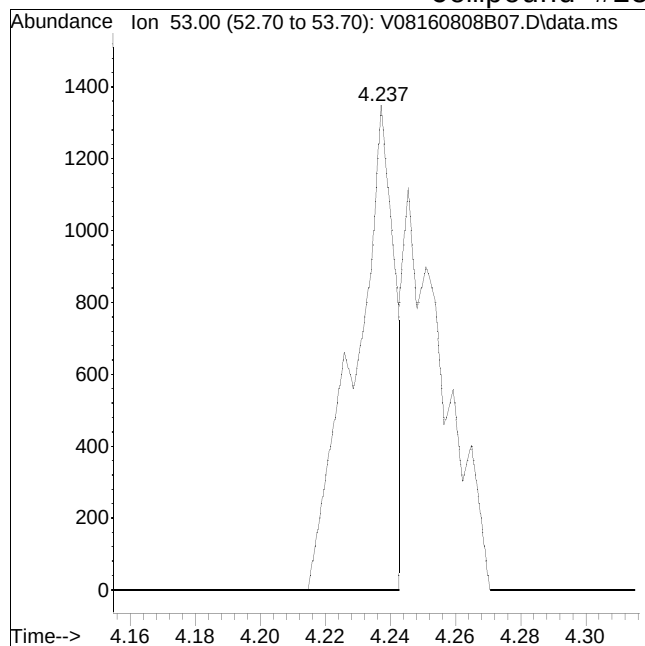


Manual Peak Response = 4068 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #25: Acrylonitrile



Original Peak Response = 1171

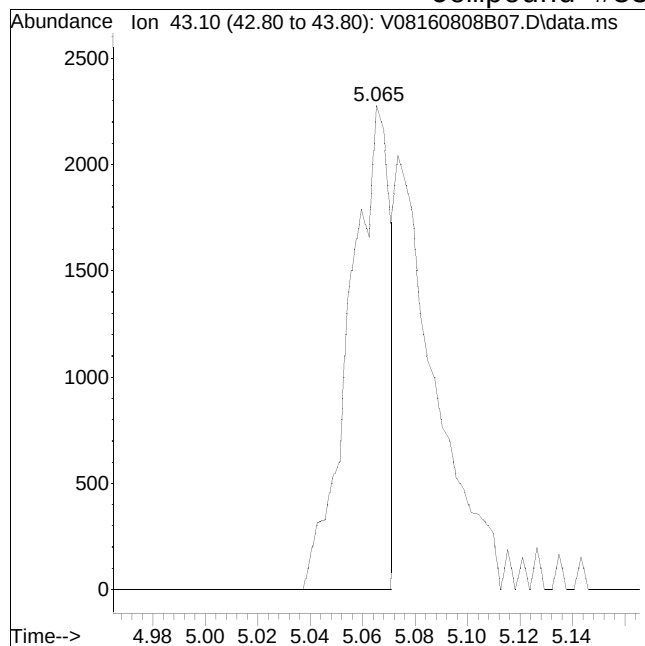
Manual Peak Response = 2098 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

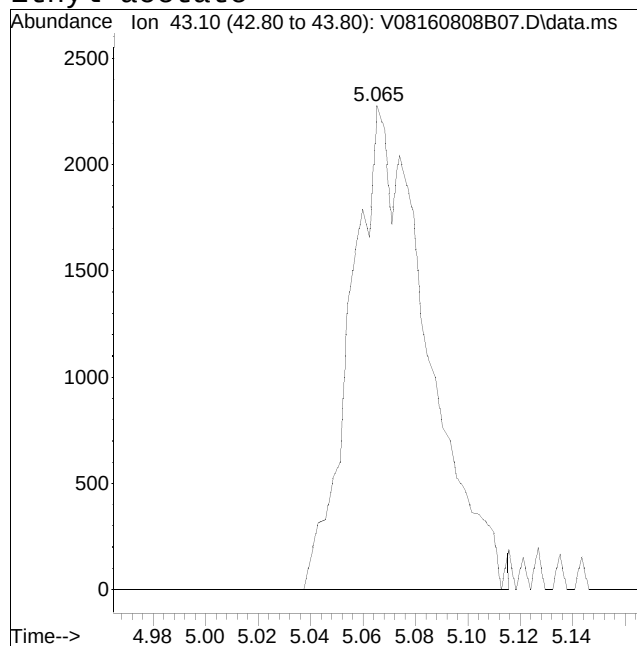
Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #33: Ethyl acetate



Original Peak Response = 2418

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

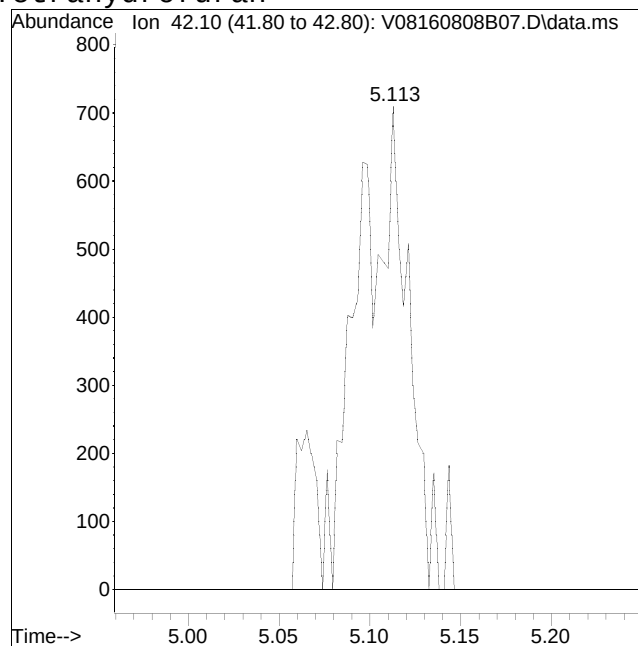
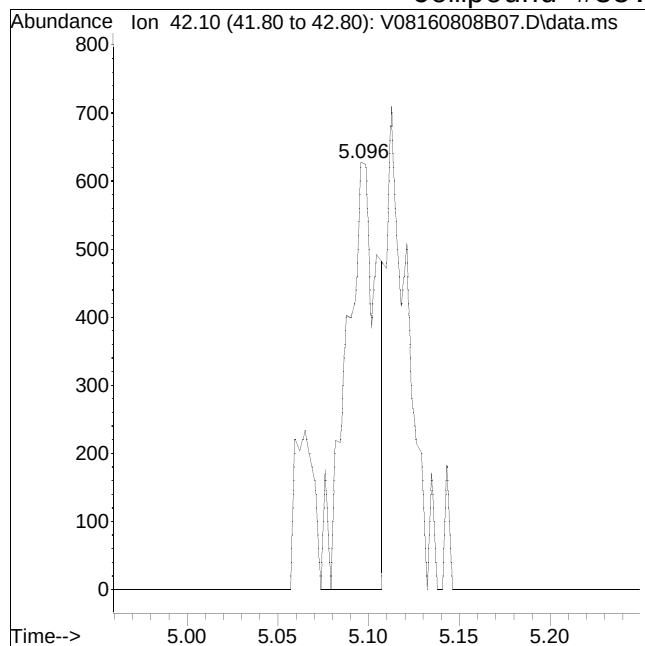


Manual Peak Response = 4602 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 744

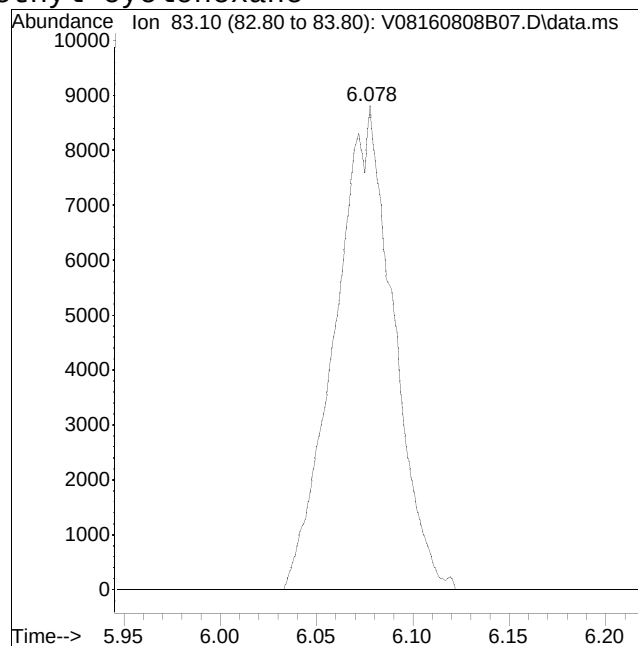
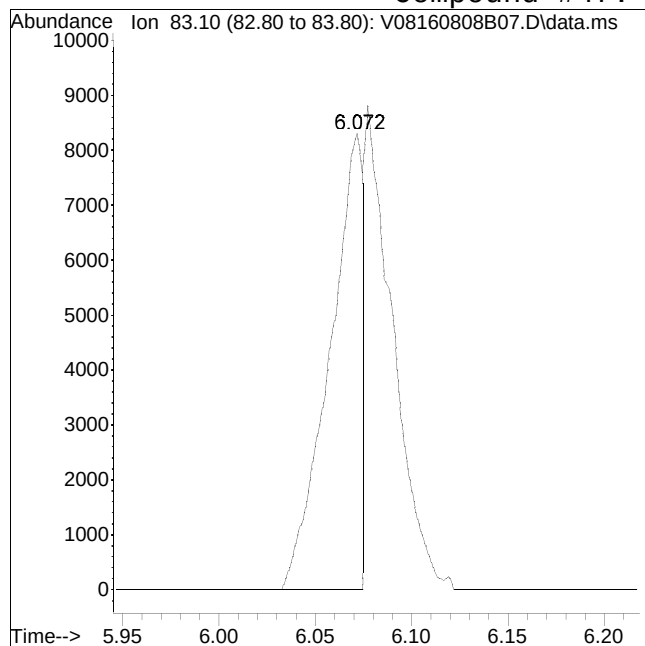
Manual Peak Response = 1528 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #47: Methyl cyclohexane



Original Peak Response = 10128

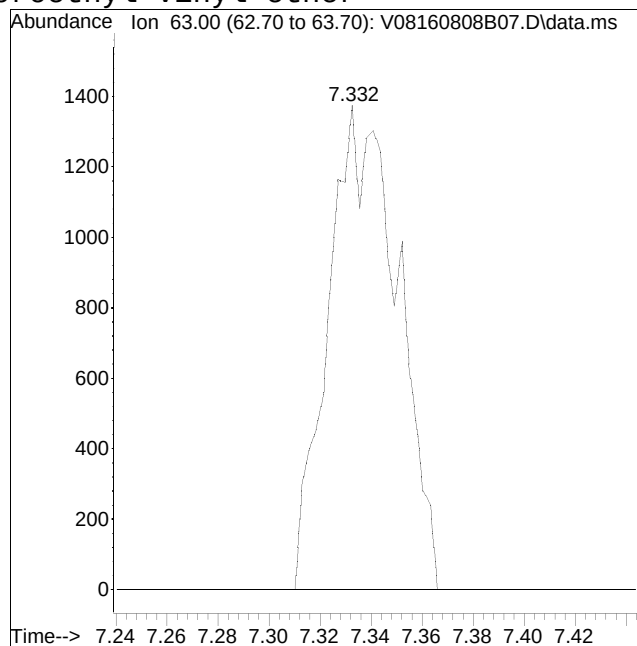
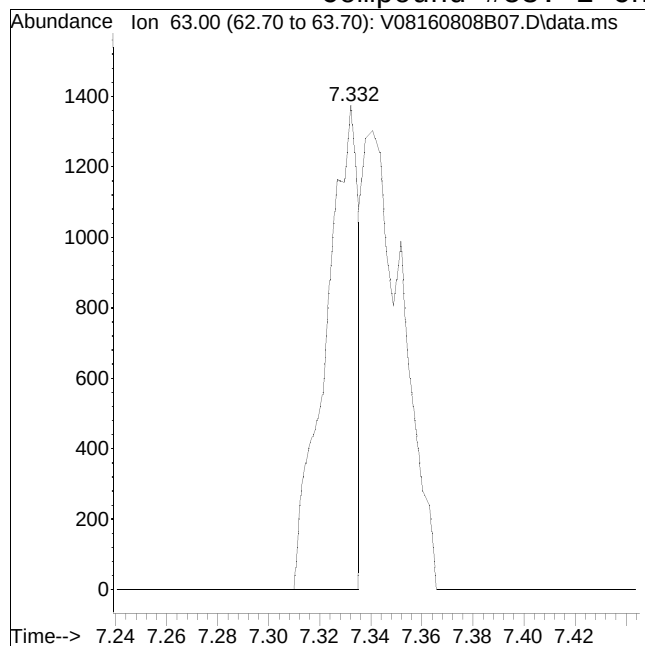
Manual Peak Response = 18673 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 1232

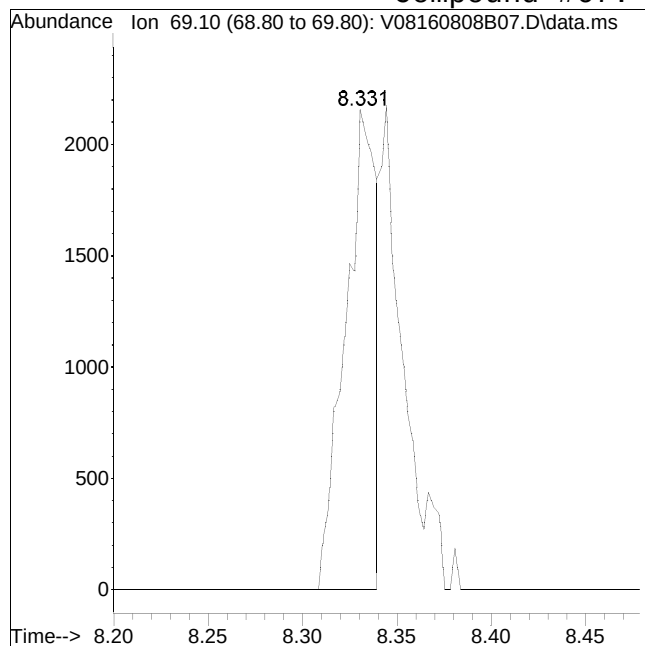
Manual Peak Response = 2603 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

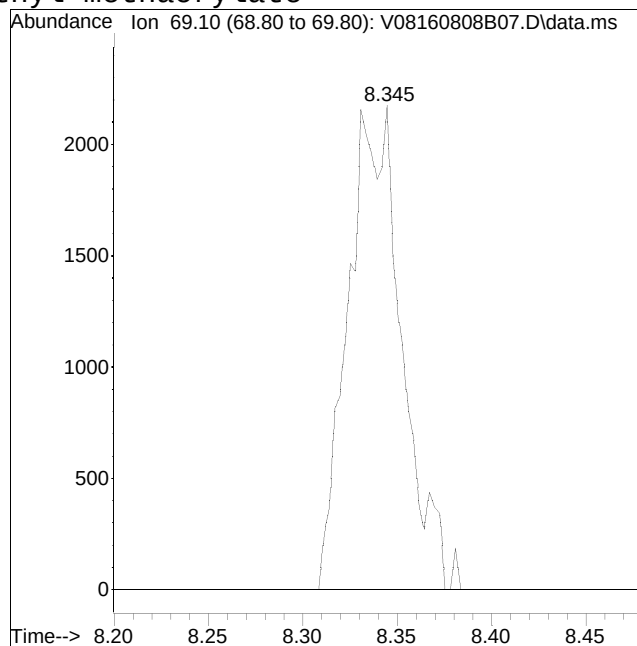
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #67: Ethyl methacrylate



Original Peak Response = 2399

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

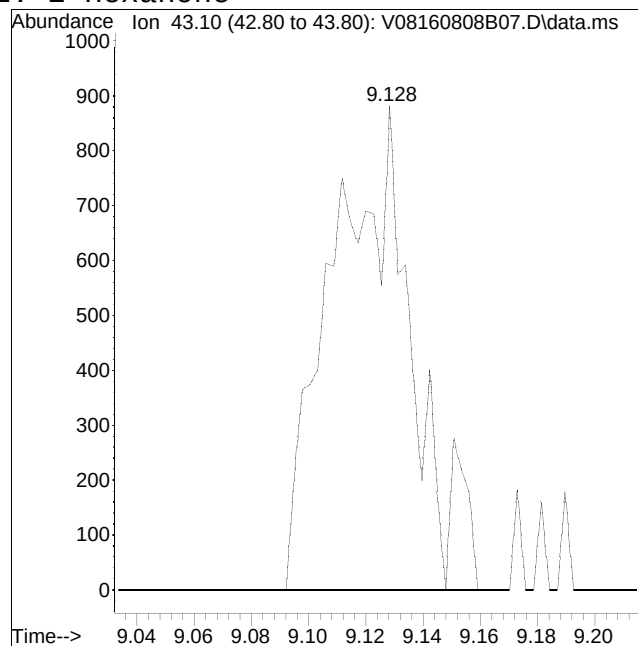
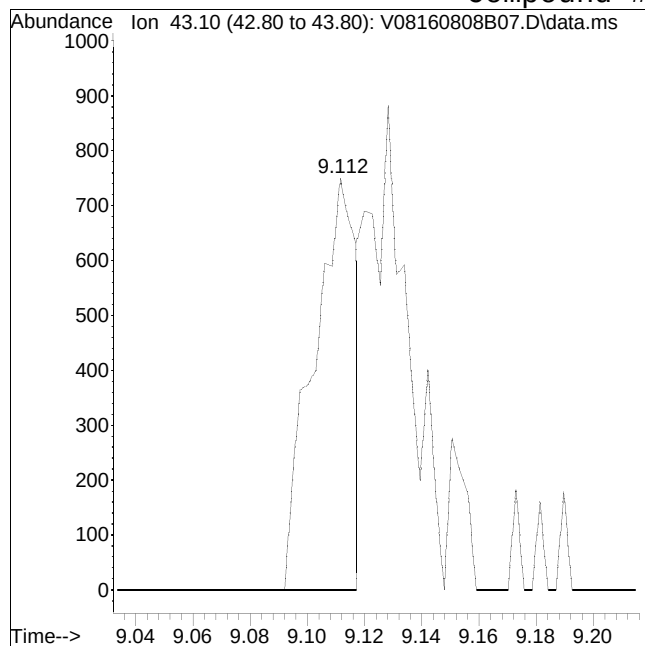


Manual Peak Response = 4297 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B07.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 17:35 Instrument : VOA 108
Sample : ISTD L2 Quant Date : 8/9/2016 1:20 pm

Compound #72: 2-Hexanone



Original Peak Response = 766

Manual Peak Response = 1736 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B08.D
 Acq On : 8 Aug 2016 18:03
 Operator : VOA108:MS
 Sample : ISTD13
 Misc : WG921210
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 13:20:28 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.924	96	293776	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.435	117	205600	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.157	152	93753	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.124	113	71414	9.917	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.17%	
43) 1,2-Dichloroethane-d4	5.651	65	68124	9.934	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.34%	
60) Toluene-d8	7.600	98	278973	10.070	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.70%	
83) 4-Bromofluorobenzene	10.944	95	90700	9.902	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.02%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.621	85	78168	10.805	ug/L	100
3) Chloromethane	1.797	50	107197	10.120	ug/L	100
4) Vinyl chloride	1.878	62	107499	10.813	ug/L	99
5) Bromomethane	2.182	94	19016	7.181	ug/L	98
6) Chloroethane	2.299	64	60188	11.097	ug/L	98
7) Trichlorofluoromethane	2.433	101	113901	10.866	ug/L	99
8) Ethyl ether	2.726	74	23396	10.264	ug/L	95
10) 1,1-Dichloroethene	2.910	96	63373	10.896	ug/L	99
11) Carbon disulfide	2.932	76	205895	10.459	ug/L	99
12) Freon-113	2.946	101	63481	10.975	ug/L	90
13) Iodomethane	3.041	142	30075M1	6.134	ug/L	
14) Acrolein	3.236	56	5023	9.774	ug/L	95
15) Methylene chloride	3.454	84	66576	10.763	ug/L	93
17) Acetone	3.515	43	8786	8.974	ug/L	99
18) trans-1,2-Dichloroethene	3.599	96	74021	10.444	ug/L	99
19) Methyl acetate	3.624	43	22134	10.434	ug/L #	81
20) Methyl tert-butyl ether	3.702	73	98816	10.871	ug/L #	91
21) tert-Butyl alcohol	3.810	59	8809	51.233	ug/L #	97
22) Diisopropyl ether	4.053	45	249492	10.309	ug/L	94
23) 1,1-Dichloroethane	4.179	63	157870	10.555	ug/L	97
24) Halothane	4.232	117	52172	10.563	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B08.D
 Acq On : 8 Aug 2016 18:03
 Operator : VOA108:MS
 Sample : ISTD13
 Misc : WG921210
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 13:20:28 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.240	53	12105	9.921	ug/L	# 87
26) Ethyl tert-butyl ether	4.393	59	171375	10.143	ug/L	88
27) Vinyl acetate	4.416	43	89902	9.883	ug/L	# 94
28) cis-1,2-Dichloroethene	4.689	96	74694	10.455	ug/L	99
29) 2,2-Dichloropropane	4.786	77	100493	11.308	ug/L	98
30) Bromochloromethane	4.881	128	27087	10.286	ug/L	83
31) Cyclohexane	4.870	56	180330	11.020	ug/L	91
32) Chloroform	4.948	83	126121	10.538	ug/L	98
33) Ethyl acetate	5.063	43	27421	9.436	ug/L	# 93
34) Carbon tetrachloride	5.071	117	111388	10.623	ug/L	99
35) Tetrahydrofuran	5.102	42	10547	9.921	ug/L	98
37) 1,1,1-Trichloroethane	5.143	97	121807	10.662	ug/L	# 96
39) 2-Butanone	5.252	43	12169	10.477	ug/L	# 73
40) 1,1-Dichloropropene	5.261	75	102737	10.685	ug/L	99
41) Benzene	5.509	78	296906	10.559	ug/L	98
42) tert-Amyl methyl ether	5.615	73	103282	10.031	ug/L	# 91
44) 1,2-Dichloroethane	5.718	62	75820	10.475	ug/L	98
47) Methyl cyclohexane	6.075	83	122198	10.797	ug/L	96
48) Trichloroethene	6.092	95	80326	10.609	ug/L	95
50) Dibromomethane	6.532	93	25516	10.357	ug/L	94
51) 1,2-Dichloropropane	6.641	63	74434	10.308	ug/L	98
53) 2-Chloroethyl vinyl ether	7.335	63	16735	11.173	ug/L	93
54) Bromodichloromethane	6.708	83	77763	10.175	ug/L	# 99
57) 1,4-Dioxane	6.925	88	9681	414.642	ug/L	97
58) cis-1,3-Dichloropropene	7.399	75	83060	10.072	ug/L	98
61) Toluene	7.656	92	186891	10.578	ug/L	99
62) 4-Methyl-2-pentanone	8.105	58	9281	8.633	ug/L	# 93
63) Tetrachloroethene	8.088	166	79110	10.710	ug/L	95
65) trans-1,3-Dichloropropene	8.144	75	58610	9.891	ug/L	98
67) Ethyl methacrylate	8.336	69	30841	7.733	ug/L	87
68) 1,1,2-Trichloroethane	8.334	83	30130	10.768	ug/L	97
69) Chlorodibromomethane	8.532	129	44630	10.325	ug/L	99
70) 1,3-Dichloropropane	8.652	76	63567	10.519	ug/L	100
71) 1,2-Dibromoethane	8.805	107	31352	10.259	ug/L	100
72) 2-Hexanone	9.109	43	13286	7.964	ug/L	95
73) Chlorobenzene	9.455	112	191905	10.468	ug/L	# 87
74) Ethylbenzene	9.494	91	354025	10.789	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.541	131	60904	10.282	ug/L	99
76) p/m Xylene	9.683	106	282361	21.806	ug/L	90
77) o Xylene	10.224	106	252193	21.653	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B08.D
 Acq On : 8 Aug 2016 18:03
 Operator : VOA108:MS
 Sample : ISTD13
 Misc : WG921210
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 13:20:28 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.294	104	397163	21.892	ug/L	94
80)	Bromoform	10.316	173	20128	10.085	ug/L	99
82)	Isopropylbenzene	10.612	105	355151	10.883	ug/L	99
84)	Bromobenzene	11.050	156	63202	10.322	ug/L	99
85)	n-Propylbenzene	11.097	91	401104	10.810	ug/L	95
86)	1,4-Dichlorobutane	11.122	55	74802	10.404	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.195	83	34290	10.620	ug/L	97
88)	4-Ethyltoluene	11.225	105	330218	10.732	ug/L	99
89)	2-Chlorotoluene	11.264	91	234684	10.548	ug/L	96
90)	1,3,5-Trimethylbenzene	11.326	105	274164	10.927	ug/L #	75
91)	1,2,3-Trichloropropane	11.334	75	26882	10.166	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.390	53	10189	9.757	ug/L	96
93)	4-Chlorotoluene	11.451	91	223204	10.553	ug/L #	100
94)	tert-Butylbenzene	11.669	119	260669	10.725	ug/L	98
95)	Pentachloroethane	11.686	167	36652	10.349	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.747	105	244514	10.706	ug/L	99
98)	sec-Butylbenzene	11.858	105	340406	10.940	ug/L	99
99)	p-Isopropyltoluene	12.015	119	252873	10.721	ug/L	97
100)	1,3-Dichlorobenzene	12.079	146	133756	10.485	ug/L	99
101)	1,4-Dichlorobenzene	12.171	146	124381	10.101	ug/L	98
102)	p-Diethylbenzene	12.391	119	133041	9.126	ug/L	98
103)	n-Butylbenzene	12.447	91	193702	9.504	ug/L	98
104)	1,2-Dichlorobenzene	12.597	146	102528	10.266	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.194	119	160891	9.456	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.387	155	3178	9.287	ug/L	95
107)	1,3,5-Trichlorobenzene	13.412	180	61138	10.442	ug/L	97
108)	Hexachlorobutadiene	13.992	225	22276	9.914	ug/L	95
109)	1,2,4-Trichlorobenzene	14.020	180	31906	7.796	ug/L #	95
110)	Naphthalene	14.324	128	35687	6.808	ug/L	100
111)	1,2,3-Trichlorobenzene	14.491	180	22498	7.900	ug/L	98

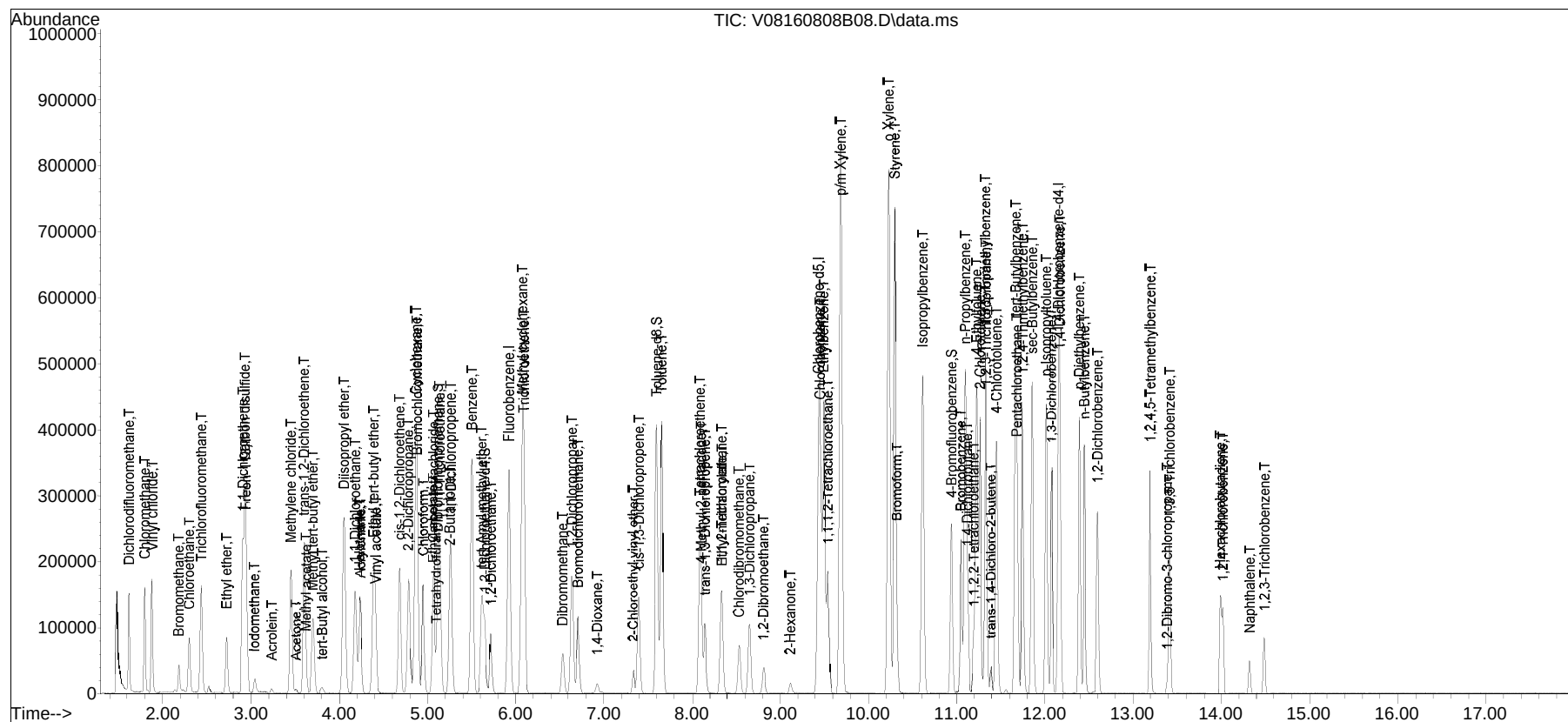
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B08.D
 Acq On : 8 Aug 2016 18:03
 Operator : VOA108:MS
 Sample : ISTD13
 Misc : WG921210
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 13:20:28 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

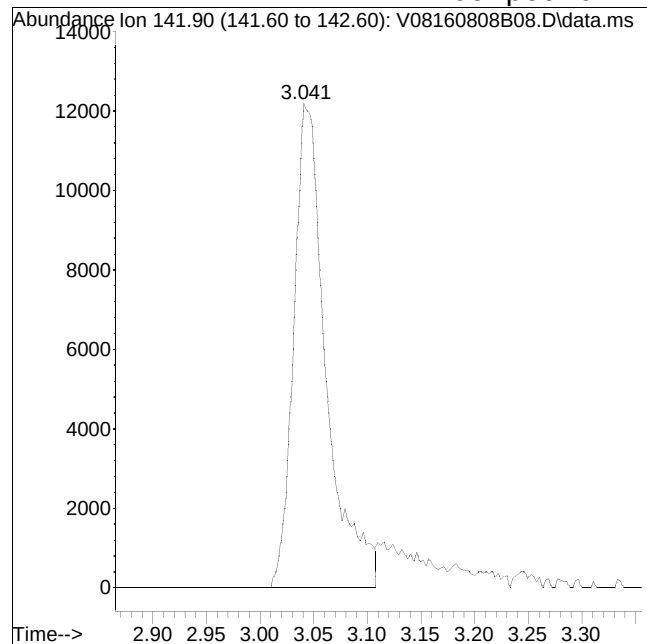
Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

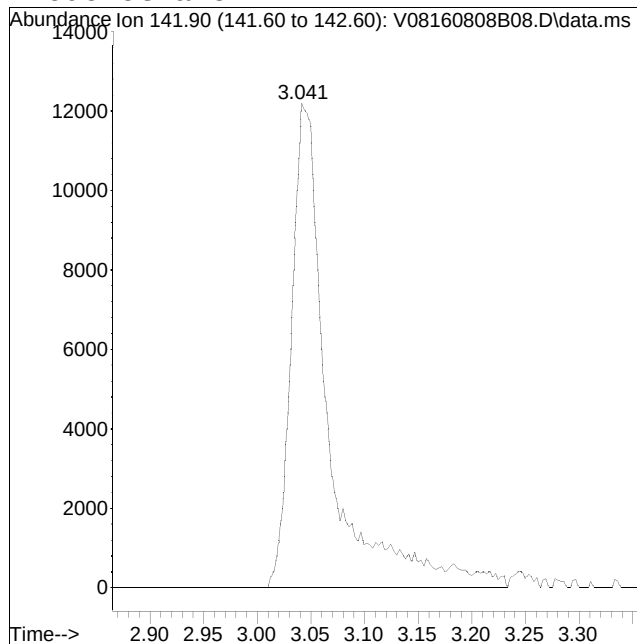
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08160808B08.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 18:03 Instrument : VOA 108
Sample : ISTD L3 Quant Date : 8/9/2016 1:20 pm

Compound #13: Iodomethane



Original Peak Response = 25615

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 30075 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B09.D
 Acq On : 8 Aug 2016 18:31
 Operator : VOA108:MS
 Sample : ISTD4
 Misc : WG921210
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:20:37 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.922	96	296401	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	100.89%	
59) Chlorobenzene-d5	9.432	117	213125	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	103.66%	
79) 1,4-Dichlorobenzene-d4	12.157	152	98308	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	104.86%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.127	113	71922	9.899	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.99%	
43) 1,2-Dichloroethane-d4	5.648	65	69110	9.988	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.88%	
60) Toluene-d8	7.597	98	286489	9.976	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.76%	
83) 4-Bromofluorobenzene	10.941	95	93795	9.765	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.65%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	231809	31.758	ug/L	99
3) Chloromethane	1.797	50	318572	29.808	ug/L	99
4) Vinyl chloride	1.875	62	327182	32.618	ug/L	100
5) Bromomethane	2.182	94	75443	26.725	ug/L	94
6) Chloroethane	2.296	64	174703	31.925	ug/L	98
7) Trichlorofluoromethane	2.430	101	336328	31.800	ug/L	100
8) Ethyl ether	2.726	74	70256	30.548	ug/L	95
10) 1,1-Dichloroethene	2.907	96	181508	30.931	ug/L	98
11) Carbon disulfide	2.932	76	607030	30.563	ug/L	99
12) Freon-113	2.943	101	184476	31.610	ug/L	88
13) Iodomethane	3.044	142	138627M1	25.377	ug/L	
14) Acrolein	3.230	56	15618	29.155	ug/L	91
15) Methylene chloride	3.454	84	189049	31.023	ug/L	94
17) Acetone	3.509	43	25865	26.314	ug/L	98
18) trans-1,2-Dichloroethene	3.601	96	217758	30.452	ug/L	99
19) Methyl acetate	3.621	43	65701	30.698	ug/L #	81
20) Methyl tert-butyl ether	3.705	73	304653	33.218	ug/L #	91
21) tert-Butyl alcohol	3.805	59	27182	156.689	ug/L #	92
22) Diisopropyl ether	4.053	45	776902	31.819	ug/L	96
23) 1,1-Dichloroethane	4.179	63	466195	30.894	ug/L	98
24) Halothane	4.232	117	156389	31.383	ug/L #	60

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B09.D
 Acq On : 8 Aug 2016 18:31
 Operator : VOA108:MS
 Sample : ISTD4
 Misc : WG921210
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:20:37 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.240	53	37396	29.643	ug/L	# 87
26) Ethyl tert-butyl ether	4.393	59	543135	31.860	ug/L	89
27) Vinyl acetate	4.416	43	293517	31.980	ug/L	# 93
28) cis-1,2-Dichloroethene	4.686	96	222777	30.905	ug/L	99
29) 2,2-Dichloropropane	4.789	77	296547	33.074	ug/L	99
30) Bromochloromethane	4.879	128	81076	30.516	ug/L	84
31) Cyclohexane	4.867	56	543734	32.933	ug/L	91
32) Chloroform	4.948	83	370303	30.666	ug/L	99
33) Ethyl acetate	5.065	43	89045	30.371	ug/L	# 93
34) Carbon tetrachloride	5.071	117	329974	31.191	ug/L	99
35) Tetrahydrofuran	5.102	42	31899	29.044	ug/L	95
37) 1,1,1-Trichloroethane	5.143	97	359181	31.163	ug/L	# 96
39) 2-Butanone	5.255	43	38111	32.523	ug/L	# 74
40) 1,1-Dichloropropene	5.261	75	308236	31.775	ug/L	100
41) Benzene	5.509	78	877227	30.921	ug/L	98
42) tert-Amyl methyl ether	5.618	73	331802	31.939	ug/L	# 86
44) 1,2-Dichloroethane	5.715	62	223014	30.537	ug/L	98
47) Methyl cyclohexane	6.072	83	370765	32.470	ug/L	93
48) Trichloroethene	6.092	95	232444	30.427	ug/L	94
50) Dibromomethane	6.535	93	77362	31.122	ug/L	94
51) 1,2-Dichloropropane	6.641	63	225709	30.979	ug/L	98
53) 2-Chloroethyl vinyl ether	7.335	63	43262	31.201	ug/L	# 85
54) Bromodichloromethane	6.711	83	237275	30.770	ug/L	# 99
57) 1,4-Dioxane	6.925	88	14081	597.755	ug/L	97
58) cis-1,3-Dichloropropene	7.397	75	262924	31.600	ug/L	98
61) Toluene	7.656	92	556158	30.368	ug/L	98
62) 4-Methyl-2-pentanone	8.102	58	30612	26.079	ug/L	94
63) Tetrachloroethene	8.088	166	231248	30.200	ug/L	96
65) trans-1,3-Dichloropropene	8.144	75	191336	31.149	ug/L	100
67) Ethyl methacrylate	8.334	69	113979	26.053	ug/L	99
68) 1,1,2-Trichloroethane	8.331	83	89556	30.876	ug/L	99
69) Chlorodibromomethane	8.532	129	138363	30.881	ug/L	98
70) 1,3-Dichloropropane	8.652	76	193203	30.842	ug/L	100
71) 1,2-Dibromoethane	8.811	107	98429	31.070	ug/L	96
72) 2-Hexanone	9.109	43	47936	26.102	ug/L	99
73) Chlorobenzene	9.455	112	573436	30.175	ug/L	97
74) Ethylbenzene	9.494	91	1071786	31.510	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.541	131	186596	30.390	ug/L	99
76) p/m Xylene	9.681	106	844721	62.932	ug/L	91
77) o Xylene	10.227	106	770715	63.837	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B09.D
 Acq On : 8 Aug 2016 18:31
 Operator : VOA108:MS
 Sample : ISTD4
 Misc : WG921210
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:20:37 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.297	104	1207354	64.201	ug/L	94
80)	Bromoform	10.319	173	62624	29.924	ug/L	100
82)	Isopropylbenzene	10.612	105	1074714	31.407	ug/L	99
84)	Bromobenzene	11.050	156	193423	30.127	ug/L	99
85)	n-Propylbenzene	11.097	91	1209798	31.093	ug/L	96
86)	1,4-Dichlorobutane	11.122	55	230449	30.566	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.192	83	101607	30.011	ug/L	97
88)	4-Ethyltoluene	11.225	105	1033902	32.044	ug/L	99
89)	2-Chlorotoluene	11.265	91	693826	29.739	ug/L	96
90)	1,3,5-Trimethylbenzene	11.326	105	822123	31.248	ug/L #	76
91)	1,2,3-Trichloropropane	11.331	75	83494	30.111	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.390	53	33397	28.957	ug/L	96
93)	4-Chlorotoluene	11.451	91	677379	30.542	ug/L #	100
94)	tert-Butylbenzene	11.669	119	795161	31.201	ug/L	97
95)	Pentachloroethane	11.686	167	115259	31.036	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.747	105	769319	32.125	ug/L	99
98)	sec-Butylbenzene	11.858	105	1027385	31.488	ug/L	99
99)	p-Isopropyltoluene	12.015	119	801543	32.408	ug/L	96
100)	1,3-Dichlorobenzene	12.079	146	400694	29.954	ug/L	100
101)	1,4-Dichlorobenzene	12.171	146	379608	29.398	ug/L	99
102)	p-Diethylbenzene	12.391	119	449541	28.446	ug/L	98
103)	n-Butylbenzene	12.450	91	620448	28.255	ug/L	98
104)	1,2-Dichlorobenzene	12.598	146	315234	30.100	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.191	119	552405	29.992	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.387	155	10736	29.920	ug/L	100
107)	1,3,5-Trichlorobenzene	13.409	180	199503	32.495	ug/L	97
108)	Hexachlorobutadiene	13.992	225	69543	29.515	ug/L	99
109)	1,2,4-Trichlorobenzene	14.017	180	119833	26.329	ug/L	95
110)	Naphthalene	14.321	128	147330	24.612	ug/L	100
111)	1,2,3-Trichlorobenzene	14.488	180	83407	26.340	ug/L	97

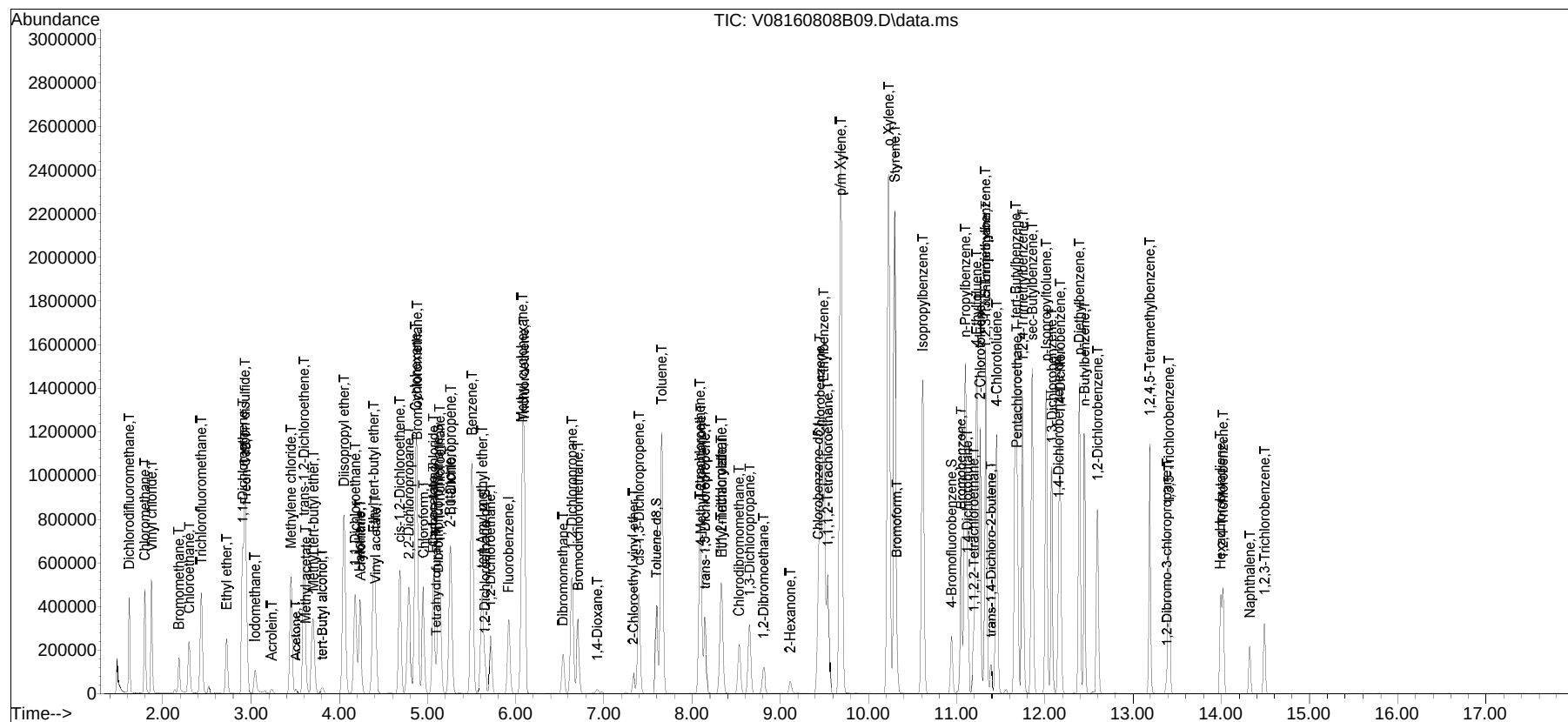
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B09.D
 Acq On : 8 Aug 2016 18:31
 Operator : VOA108:MS
 Sample : ISTD4
 Misc : WG921210
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:20:37 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

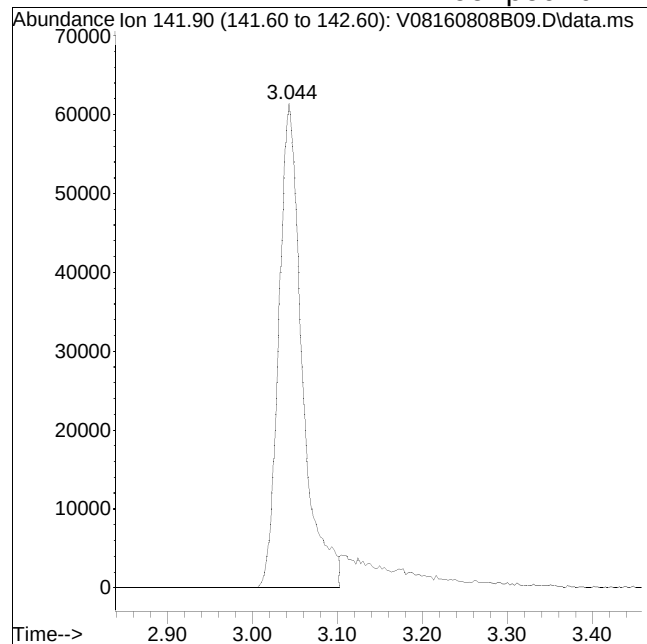
Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

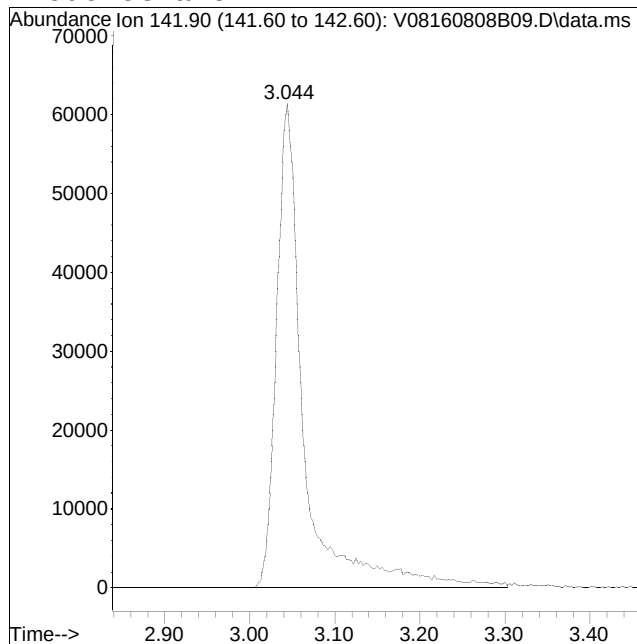
Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08160808B09.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 18:31 Instrument : VOA 108
Sample : ISTDL4 Quant Date : 8/9/2016 1:20 pm

Compound #13: Iodomethane



Original Peak Response = 117398

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 138627 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B10.D
 Acq On : 8 Aug 2016 19:00
 Operator : VOA108:MS
 Sample : ISTD16
 Misc : WG921210
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 13:20:45 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.924	96	307209	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	104.57%	
59) Chlorobenzene-d5	9.435	117	220110	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	107.06%	
79) 1,4-Dichlorobenzene-d4	12.157	152	103640	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	110.55%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.124	113	75603	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.40%	
43) 1,2-Dichloroethane-d4	5.648	65	69781	9.730	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.30%	
60) Toluene-d8	7.600	98	293578	9.899	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.99%	
83) 4-Bromofluorobenzene	10.941	95	98707	9.748	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.48%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	644574	85.199	ug/L	99
3) Chloromethane	1.797	50	917900	82.863	ug/L	99
4) Vinyl chloride	1.875	62	914616	87.974	ug/L	99
5) Bromomethane	2.182	94	273086	83.556	ug/L	99
6) Chloroethane	2.288	64	458480	80.835	ug/L	98
7) Trichlorofluoromethane	2.427	101	931279	84.955	ug/L	100
8) Ethyl ether	2.726	74	194564	81.623	ug/L	95
10) 1,1-Dichloroethene	2.907	96	510109	83.870	ug/L	99
11) Carbon disulfide	2.932	76	1722070	83.654	ug/L	99
12) Freon-113	2.941	101	510478	84.393	ug/L	84
13) Iodomethane	3.044	142	467691	80.931	ug/L	93
14) Acrolein	3.231	56	44794	79.858	ug/L	92
15) Methylene chloride	3.454	84	511457	81.625	ug/L	93
17) Acetone	3.512	43	74341	73.088	ug/L	99
18) trans-1,2-Dichloroethene	3.599	96	614362	82.893	ug/L	99
19) Methyl acetate	3.618	43	179096	80.738	ug/L #	80
20) Methyl tert-butyl ether	3.702	73	858153	90.278	ug/L #	89
21) tert-Butyl alcohol	3.805	59	58927	327.730	ug/L #	88
22) Diisopropyl ether	4.053	45	2209013	87.289	ug/L	97
23) 1,1-Dichloroethane	4.179	63	1294737	82.783	ug/L	98
24) Halothane	4.232	117	436908	84.591	ug/L #	61

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B10.D
 Acq On : 8 Aug 2016 19:00
 Operator : VOA108:MS
 Sample : ISTD16
 Misc : WG921210
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 13:20:45 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) Acrylonitrile	4.240	53	104233	79.113	ug/L	#	89
26) Ethyl tert-butyl ether	4.393	59	1558510	88.206	ug/L		90
27) Vinyl acetate	4.416	43	866505	91.087	ug/L	#	93
28) cis-1,2-Dichloroethene	4.686	96	622117	83.268	ug/L		99
29) 2,2-Dichloropropane	4.789	77	804933	86.615	ug/L		96
30) Bromochloromethane	4.879	128	226829	82.373	ug/L		83
31) Cyclohexane	4.867	56	1539535	89.966	ug/L		91
32) Chloroform	4.948	83	1026968	82.055	ug/L		99
33) Ethyl acetate	5.066	43	259103	85.265	ug/L	#	92
34) Carbon tetrachloride	5.071	117	939413	85.675	ug/L		99
35) Tetrahydrofuran	5.105	42	91960	80.162	ug/L		92
37) 1,1,1-Trichloroethane	5.141	97	1012440	84.749	ug/L	#	97
39) 2-Butanone	5.252	43	105116	86.546	ug/L	#	73
40) 1,1-Dichloropropene	5.261	75	871424	86.671	ug/L		99
41) Benzene	5.506	78	2453010	83.424	ug/L		98
42) tert-Amyl methyl ether	5.615	73	965630	89.680	ug/L	#	82
44) 1,2-Dichloroethane	5.715	62	608600	80.404	ug/L		98
47) Methyl cyclohexane	6.072	83	1053951	89.053	ug/L		93
48) Trichloroethene	6.092	95	648918	81.955	ug/L		94
50) Dibromomethane	6.535	93	211459	82.076	ug/L		94
51) 1,2-Dichloropropane	6.641	63	635768	84.191	ug/L		98
53) 2-Chloroethyl vinyl ether	7.335	63	79397	67.362	ug/L	#	88
54) Bromodichloromethane	6.708	83	674095	84.342	ug/L	#	98
57) 1,4-Dioxane	6.923	88	20455	837.790	ug/L		98
58) cis-1,3-Dichloropropene	7.397	75	763613	88.549	ug/L		99
61) Toluene	7.656	92	1556052	82.270	ug/L		98
62) 4-Methyl-2-pentanone	8.102	58	95845	77.769	ug/L	#	98
63) Tetrachloroethene	8.088	166	651996	82.447	ug/L		96
65) trans-1,3-Dichloropropene	8.144	75	561954	88.581	ug/L		98
67) Ethyl methacrylate	8.331	69	356550	77.713	ug/L		94
68) 1,1,2-Trichloroethane	8.328	83	250748	83.705	ug/L		99
69) Chlorodibromomethane	8.532	129	400280	86.502	ug/L		98
70) 1,3-Dichloropropane	8.649	76	539177	83.339	ug/L		100
71) 1,2-Dibromoethane	8.811	107	282112	86.225	ug/L		96
72) 2-Hexanone	9.106	43	149619	77.564	ug/L		97
73) Chlorobenzene	9.455	112	1608627	81.961	ug/L		97
74) Ethylbenzene	9.497	91	3011061	85.715	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.541	131	528980	83.420	ug/L		99
76) p/m Xylene	9.683	106	2387097	172.196	ug/L		91
77) o Xylene	10.227	106	2165033	173.634	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B10.D
 Acq On : 8 Aug 2016 19:00
 Operator : VOA108:MS
 Sample : ISTD16
 Misc : WG921210
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 13:20:45 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.297	104	3408041	175.472	ug/L	94
80)	Bromoform	10.319	173	179427	81.327	ug/L	98
82)	Isopropylbenzene	10.612	105	3046538	84.451	ug/L	99
84)	Bromobenzene	11.050	156	543643	80.319	ug/L	99
85)	n-Propylbenzene	11.097	91	3421684	83.416	ug/L	96
86)	1,4-Dichlorobutane	11.125	55	647395	81.451	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.192	83	284079	79.591	ug/L	98
88)	4-Ethyltoluene	11.228	105	2954503	86.860	ug/L	98
89)	2-Chlorotoluene	11.267	91	1953525	79.424	ug/L	97
90)	1,3,5-Trimethylbenzene	11.326	105	2338531	84.311	ug/L #	76
91)	1,2,3-Trichloropropane	11.334	75	235516	80.566	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.390	53	97671	79.044	ug/L #	89
93)	4-Chlorotoluene	11.451	91	1917523	82.011	ug/L #	100
94)	tert-Butylbenzene	11.669	119	2288292	85.171	ug/L	97
95)	Pentachloroethane	11.689	167	335828	85.776	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.750	105	2237109	88.610	ug/L	99
98)	sec-Butylbenzene	11.859	105	2969662	86.334	ug/L	99
99)	p-Isopropyltoluene	12.015	119	2361705	90.575	ug/L	96
100)	1,3-Dichlorobenzene	12.076	146	1131062	80.203	ug/L	100
101)	1,4-Dichlorobenzene	12.171	146	1080899	79.403	ug/L	99
102)	p-Diethylbenzene	12.394	119	1343902	79.870	ug/L	98
103)	n-Butylbenzene	12.450	91	1857673	79.549	ug/L	98
104)	1,2-Dichlorobenzene	12.598	146	885991	80.247	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.192	119	1576907	80.483	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.390	155	32632	86.262	ug/L	99
107)	1,3,5-Trichlorobenzene	13.412	180	580054	89.619	ug/L	98
108)	Hexachlorobutadiene	13.995	225	200353	80.659	ug/L	99
109)	1,2,4-Trichlorobenzene	14.017	180	376222	77.189	ug/L	94
110)	Naphthalene	14.318	128	484590	75.206	ug/L	100
111)	1,2,3-Trichlorobenzene	14.488	180	257993	76.070	ug/L	98

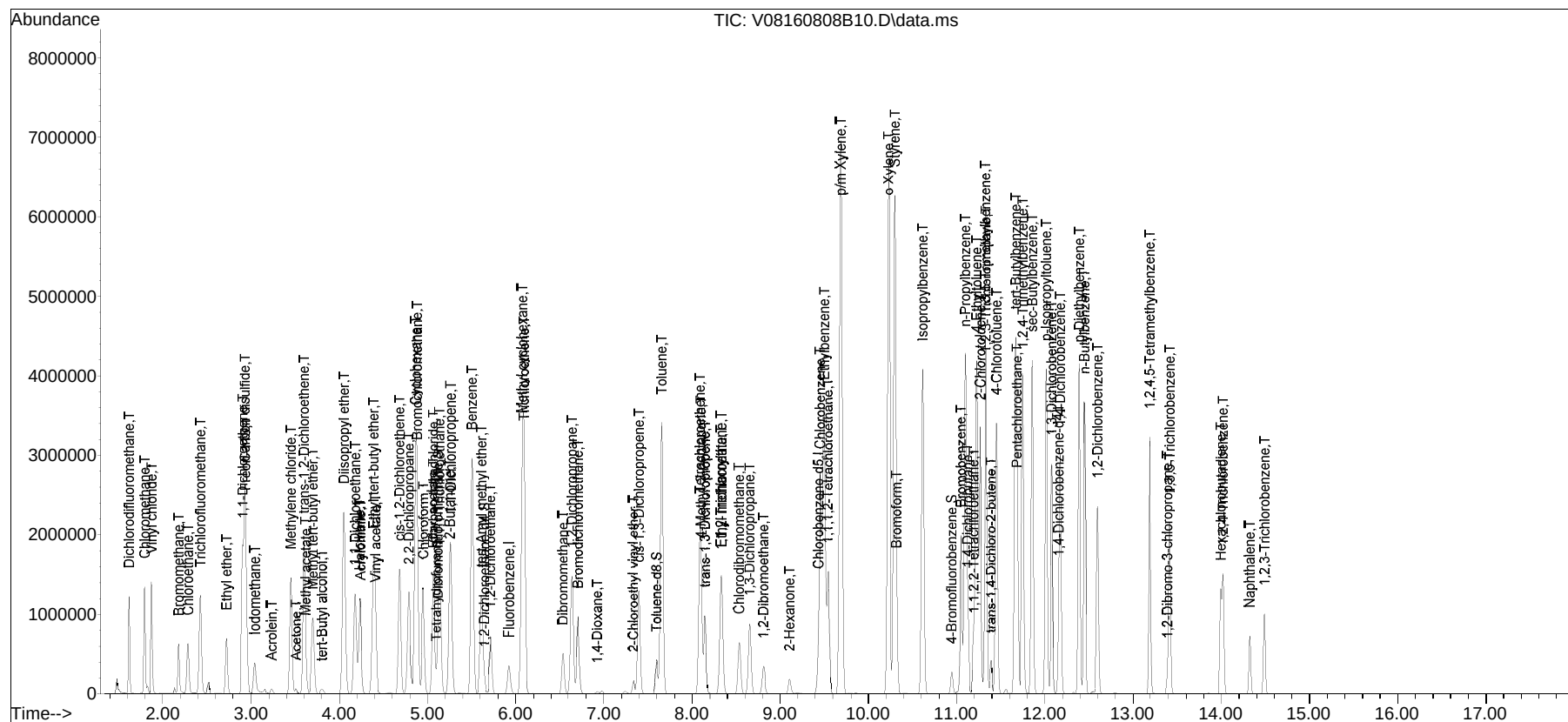
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B10.D
 Acq On : 8 Aug 2016 19:00
 Operator : VOA108:MS
 Sample : ISTD16
 Misc : WG921210
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 09 13:20:45 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\1Q	Method	: V108_1600808_8260.m
Data File	: V08160808B10.D	Operator	: VOA108:MS
Date Inj'd	: 8/8/2016 19:00	Instrument	: VOA 108
Sample	: ISTD16	Quant Date	: 8/9/2016 1:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B11.D
 Acq On : 8 Aug 2016 19:28
 Operator : VOA108:MS
 Sample : ISTD18
 Misc : WG921210
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 13:20:53 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.921	96	317092	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	107.94%	
59) Chlorobenzene-d5	9.432	117	227510	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	110.66%	
79) 1,4-Dichlorobenzene-d4	12.157	152	106631	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	113.74%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.127	113	76989	9.905	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.05%	
43) 1,2-Dichloroethane-d4	5.648	65	71741	9.692	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.92%	
60) Toluene-d8	7.597	98	301798	9.845	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.45%	
83) 4-Bromofluorobenzene	10.941	95	100211	9.619	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.19%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	950685	121.744	ug/L	99
3) Chloromethane	1.794	50	1434937	125.501	ug/L	99
4) Vinyl chloride	1.872	62	1378721	128.482	ug/L	99
5) Bromomethane	2.179	94	453414	125.069	ug/L	98
6) Chloroethane	2.280	64	581089	99.259	ug/L	98
7) Trichlorofluoromethane	2.422	101	1372024	121.261	ug/L	100
8) Ethyl ether	2.723	74	295377	120.054	ug/L	92
10) 1,1-Dichloroethene	2.904	96	759164	120.929	ug/L	99
11) Carbon disulfide	2.929	76	2587277	121.767	ug/L	99
12) Freon-113	2.940	101	761127	121.908	ug/L	83
13) Iodomethane	3.041	142	716352	119.738	ug/L	91
14) Acrolein	3.233	56	69537	119.872	ug/L	93
15) Methylene chloride	3.454	84	766844	118.750	ug/L	92
17) Acetone	3.509	43	122720	116.931	ug/L	98
18) trans-1,2-Dichloroethene	3.599	96	931065	121.708	ug/L	99
19) Methyl acetate	3.621	43	279740	122.178	ug/L #	82
20) Methyl tert-butyl ether	3.702	73	1260926	128.516	ug/L #	88
21) tert-Butyl alcohol	3.805	59	63609	342.744	ug/L #	87
22) Diisopropyl ether	4.053	45	3339329	127.840	ug/L	98
23) 1,1-Dichloroethane	4.179	63	1959262	121.367	ug/L	98
24) Halothane	4.232	117	660886	123.968	ug/L #	60

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B11.D
 Acq On : 8 Aug 2016 19:28
 Operator : VOA108:MS
 Sample : ISTD18
 Misc : WG921210
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 13:20:53 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) Acrylonitrile	4.240	53	161891	118.867	ug/L	#	89
26) Ethyl tert-butyl ether	4.393	59	2394272	131.284	ug/L		90
27) Vinyl acetate	4.416	43	1345331	137.013	ug/L	#	93
28) cis-1,2-Dichloroethene	4.686	96	943901	122.400	ug/L		99
29) 2,2-Dichloropropane	4.787	77	1155513	120.465	ug/L		94
30) Bromochloromethane	4.876	128	349199	122.859	ug/L		82
31) Cyclohexane	4.867	56	2313811	130.999	ug/L		91
32) Chloroform	4.948	83	1549047	119.911	ug/L		99
33) Ethyl acetate	5.065	43	409935	130.697	ug/L	#	93
34) Carbon tetrachloride	5.071	117	1420511	125.514	ug/L		99
35) Tetrahydrofuran	5.102	42	141189	119.069	ug/L		91
37) 1,1,1-Trichloroethane	5.143	97	1541640	125.025	ug/L	#	97
39) 2-Butanone	5.252	43	163619	130.515	ug/L	#	74
40) 1,1-Dichloropropene	5.261	75	1326336	127.804	ug/L		100
41) Benzene	5.509	78	3728681	122.855	ug/L		97
42) tert-Amyl methyl ether	5.615	73	1496497	134.650	ug/L	#	80
44) 1,2-Dichloroethane	5.718	62	921238	117.914	ug/L		98
47) Methyl cyclohexane	6.075	83	1596554	130.696	ug/L		92
48) Trichloroethene	6.092	95	981238	120.063	ug/L		95
50) Dibromomethane	6.535	93	320308	120.450	ug/L		94
51) 1,2-Dichloropropane	6.641	63	974217	124.989	ug/L		99
53) 2-Chloroethyl vinyl ether	7.335	63	103409	Below Cal		#	86
54) Bromodichloromethane	6.708	83	1026479	124.430	ug/L	#	99
57) 1,4-Dioxane	6.925	88	32559	1291.979	ug/L		99
58) cis-1,3-Dichloropropene	7.397	75	1172075	131.678	ug/L		98
61) Toluene	7.656	92	2368711	121.162	ug/L		99
62) 4-Methyl-2-pentanone	8.105	58	152274	119.195	ug/L		97
63) Tetrachloroethene	8.088	166	995652	121.808	ug/L		95
65) trans-1,3-Dichloropropene	8.144	75	872717	133.092	ug/L		97
67) Ethyl methacrylate	8.334	69	566786	119.199	ug/L		92
68) 1,1,2-Trichloroethane	8.331	83	382296	123.468	ug/L		99
69) Chlorodibromomethane	8.532	129	617662	129.138	ug/L		98
70) 1,3-Dichloropropane	8.652	76	826818	123.643	ug/L		99
71) 1,2-Dibromoethane	8.810	107	433746	128.258	ug/L		96
72) 2-Hexanone	9.103	43	240053	120.037	ug/L		95
73) Chlorobenzene	9.455	112	2446411	120.592	ug/L	#	87
74) Ethylbenzene	9.496	91	4579918	126.134	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.541	131	813828	124.166	ug/L		99
76) p/m Xylene	9.686	106	3612915	252.144	ug/L		91
77) o Xylene	10.227	106	3272351	253.905	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B11.D
 Acq On : 8 Aug 2016 19:28
 Operator : VOA108:MS
 Sample : ISTD18
 Misc : WG921210
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 13:20:53 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.297	104	5178438	257.953	ug/L	94
80)	Bromoform	10.319	173	278301	122.604	ug/L	99
82)	Isopropylbenzene	10.612	105	4628581	124.707	ug/L	99
84)	Bromobenzene	11.053	156	829411	119.102	ug/L	99
85)	n-Propylbenzene	11.100	91	5174504	122.609	ug/L	96
86)	1,4-Dichlorobutane	11.125	55	983870	120.312	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.195	83	438091	119.298	ug/L	97
88)	4-Ethyltoluene	11.228	105	4492881	128.382	ug/L	98
89)	2-Chlorotoluene	11.267	91	2932298	115.874	ug/L	96
90)	1,3,5-Trimethylbenzene	11.329	105	3536082	123.910	ug/L #	76
91)	1,2,3-Trichloropropane	11.334	75	358206	119.099	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.390	53	150142	117.742	ug/L #	83
93)	4-Chlorotoluene	11.454	91	2911544	121.032	ug/L #	100
94)	tert-Butylbenzene	11.669	119	3468347	125.471	ug/L	98
95)	Pentachloroethane	11.688	167	519001	128.843	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.747	105	3424571	131.839	ug/L	99
98)	sec-Butylbenzene	11.858	105	4488239	126.822	ug/L	100
99)	p-Isopropyltoluene	12.017	119	3589227	133.790	ug/L	97
100)	1,3-Dichlorobenzene	12.079	146	1714110	118.137	ug/L	100
101)	1,4-Dichlorobenzene	12.174	146	1632261	116.542	ug/L	98
102)	p-Diethylbenzene	12.394	119	2055933	118.548	ug/L	98
103)	n-Butylbenzene	12.450	91	2853330	118.571	ug/L	98
104)	1,2-Dichlorobenzene	12.597	146	1349121	118.767	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.191	119	2400095	118.857	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.387	155	51343	131.917	ug/L	97
107)	1,3,5-Trichlorobenzene	13.412	180	897426	134.764	ug/L	97
108)	Hexachlorobutadiene	13.995	225	316158	123.710	ug/L	99
109)	1,2,4-Trichlorobenzene	14.020	180	601815	119.668	ug/L	94
110)	Naphthalene	14.318	128	802708	120.627	ug/L	100
111)	1,2,3-Trichlorobenzene	14.488	180	422790	120.793	ug/L	97

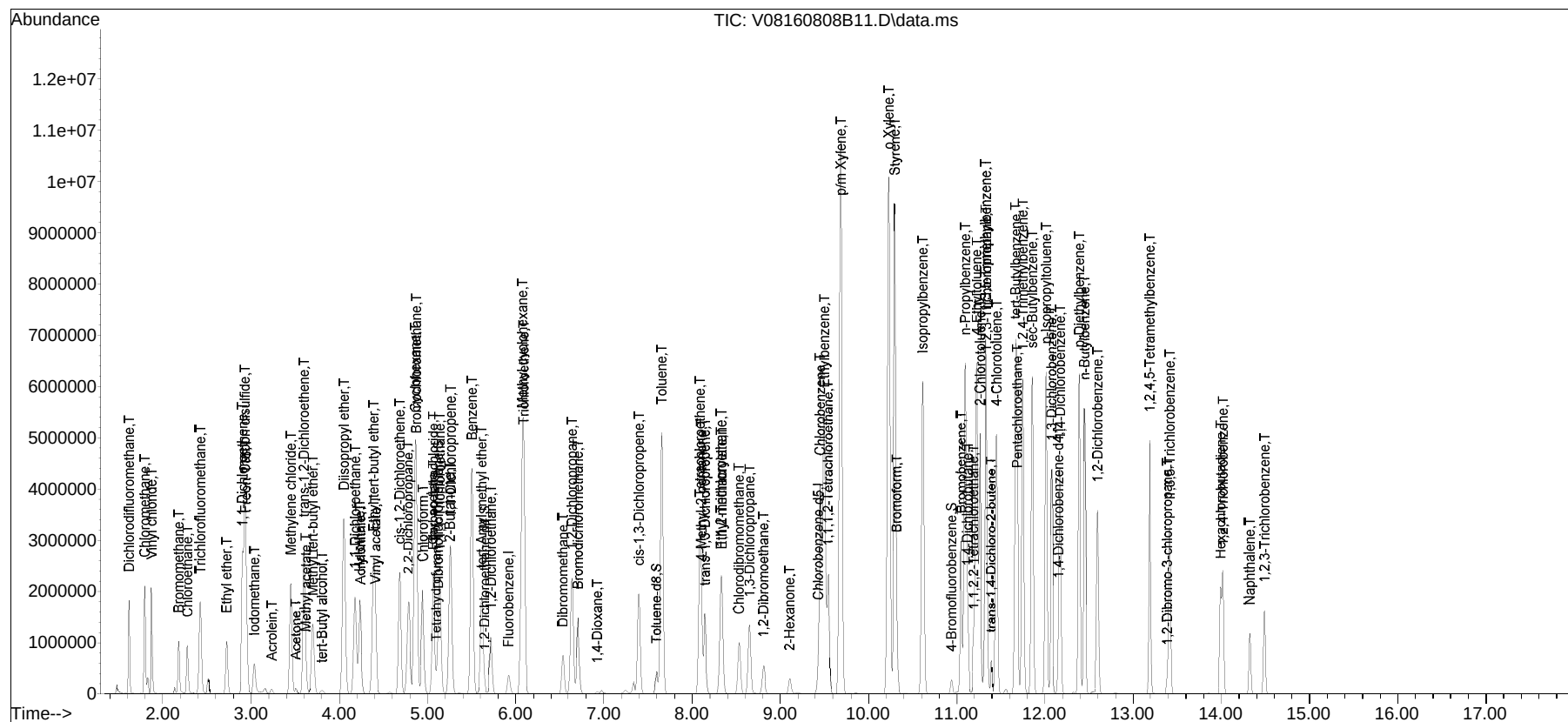
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B11.D
 Acq On : 8 Aug 2016 19:28
 Operator : VOA108:MS
 Sample : ISTD18
 Misc : WG921210
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 09 13:20:53 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\1Q	Method	: V108_1600808_8260.m
Data File	: V08160808B11.D	Operator	: VOA108:MS
Date Inj'd	: 8/8/2016 19:28	Instrument	: VOA 108
Sample	: ISTD18	Quant Date	: 8/9/2016 1:20 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B12.D
 Acq On : 8 Aug 2016 19:56
 Operator : VOA108:MS
 Sample : ISTD10
 Misc : WG921210
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 13:21:03 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.924	96	327667	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery = 111.54%			
59) Chlorobenzene-d5	9.435	117	230884	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery = 112.30%			
79) 1,4-Dichlorobenzene-d4	12.160	152	106908	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery = 114.03%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	79438	9.890	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.90%			
43) 1,2-Dichloroethane-d4	5.648	65	76589	10.013	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.13%			
60) Toluene-d8	7.600	98	313162	10.066	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.66%			
83) 4-Bromofluorobenzene	10.944	95	103319	9.891	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.91%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.616	85	1611337	199.688	ug/L	99
3) Chloromethane	1.794	50	2555195	216.267	ug/L	99
4) Vinyl chloride	1.872	62	2340372	211.059	ug/L	99
5) Bromomethane	2.179	94	825548	196.825	ug/L	98
6) Chloroethane	2.277	64	587395	97.098	ug/L	96
7) Trichlorofluoromethane	2.413	101	2317942	198.250	ug/L	100
8) Ethyl ether	2.723	74	501756	197.354	ug/L	92
10) 1,1-Dichloroethene	2.901	96	1293965	199.466	ug/L	100
11) Carbon disulfide	2.926	76	4462664	203.251	ug/L	99
12) Freon-113	2.938	101	1283703	198.973	ug/L	80
13) Iodomethane	3.038	142	1293696	208.707	ug/L	93
14) Acrolein	3.230	56	120891	201.356	ug/L	92
15) Methylene chloride	3.451	84	1318558	197.863	ug/L	91
17) Acetone	3.509	43	232744	214.664	ug/L	97
18) trans-1,2-Dichloroethene	3.599	96	1609746	203.634	ug/L	99
19) Methyl acetate	3.621	43	490902	207.485	ug/L #	82
20) Methyl tert-butyl ether	3.702	73	1488565	146.821	ug/L #	88
21) tert-Butyl alcohol	3.808	59	115867	604.176	ug/L #	88
22) Diisopropyl ether	4.053	45	5748648	212.974	ug/L	98
23) 1,1-Dichloroethane	4.179	63	3385641	202.955	ug/L	98
24) Halothane	4.232	117	1140579	207.044	ug/L #	60

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B12.D
 Acq On : 8 Aug 2016 19:56
 Operator : VOA108:MS
 Sample : ISTD10
 Misc : WG921210
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 13:21:03 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.240	53	285165	202.371	ug/L	# 90
26) Ethyl tert-butyl ether	4.393	59	4029810	213.833	ug/L	92
27) Vinyl acetate	4.413	43	2350571	231.664	ug/L	# 92
28) cis-1,2-Dichloroethene	4.686	96	1631547	204.741	ug/L	99
29) 2,2-Dichloropropane	4.787	77	1745421	176.091	ug/L	92
30) Bromochloromethane	4.879	128	595402	202.720	ug/L	80
31) Cyclohexane	4.865	56	3939425	215.836	ug/L	91
32) Chloroform	4.948	83	2690680	201.563	ug/L	98
33) Ethyl acetate	5.063	43	724014	223.382	ug/L	# 93
34) Carbon tetrachloride	5.071	117	2443543	208.939	ug/L	99
35) Tetrahydrofuran	5.102	42	247732	201.934	ug/L	# 90
37) 1,1,1-Trichloroethane	5.141	97	2663168	209.010	ug/L	# 96
39) 2-Butanone	5.249	43	286102	220.852	ug/L	# 75
40) 1,1-Dichloropropene	5.261	75	2293942	213.907	ug/L	99
41) Benzene	5.506	78	6464223	206.114	ug/L	97
42) tert-Amyl methyl ether	5.618	73	2597799	226.198	ug/L	# 78
44) 1,2-Dichloroethane	5.715	62	1584043	196.206	ug/L	98
47) Methyl cyclohexane	6.075	83	2745140	217.468	ug/L	91
48) Trichloroethene	6.092	95	1702998	201.652	ug/L	95
50) Dibromomethane	6.535	93	558141	203.112	ug/L	94
51) 1,2-Dichloropropane	6.644	63	1696449	210.624	ug/L	99
53) 2-Chloroethyl vinyl ether	7.335	63	124731	Below Cal		# 89
54) Bromodichloromethane	6.708	83	1795523	210.628	ug/L	# 99
57) 1,4-Dioxane	6.925	88	58080	2230.302	ug/L	100
58) cis-1,3-Dichloropropene	7.397	75	2054103	223.322	ug/L	97
61) Toluene	7.659	92	4094285	206.367	ug/L	99
62) 4-Methyl-2-pentanone	8.105	58	270675	208.302	ug/L	# 94
63) Tetrachloroethene	8.088	166	1707013	205.784	ug/L	95
65) trans-1,3-Dichloropropene	8.144	75	1542697	231.829	ug/L	96
67) Ethyl methacrylate	8.334	69	1012620	209.399	ug/L	90
68) 1,1,2-Trichloroethane	8.331	83	665478	211.785	ug/L	99
69) Chlorodibromomethane	8.534	129	1090629	224.691	ug/L	98
70) 1,3-Dichloropropane	8.652	76	1442166	212.511	ug/L	100
71) 1,2-Dibromoethane	8.811	107	756038	220.293	ug/L	96
72) 2-Hexanone	9.106	43	423979	208.427	ug/L	94
73) Chlorobenzene	9.455	112	4205093	204.255	ug/L	88
74) Ethylbenzene	9.497	91	7847621	212.971	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.544	131	1416280	212.924	ug/L	99
76) p/m Xylene	9.686	106	6101999	419.633	ug/L	91
77) o Xylene	10.233	106	5548843	424.248	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B12.D
 Acq On : 8 Aug 2016 19:56
 Operator : VOA108:MS
 Sample : ISTD10
 Misc : WG921210
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 13:21:03 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.300	104	8711222	427.591	ug/L	96
80)	Bromoform	10.322	173	481453	211.552	ug/L	99
82)	Isopropylbenzene	10.615	105	7848392	210.910	ug/L	98
84)	Bromobenzene	11.053	156	1423990	203.953	ug/L	99
85)	n-Propylbenzene	11.100	91	8737401	206.494	ug/L	96
86)	1,4-Dichlorobutane	11.125	55	1694685	206.696	ug/L	100
87)	1,1,2,2-Tetrachloroethane	11.198	83	757727	205.804	ug/L	97
88)	4-Ethyltoluene	11.228	105	7631783	217.509	ug/L	98
89)	2-Chlorotoluene	11.267	91	5047933	198.959	ug/L	97
90)	1,3,5-Trimethylbenzene	11.331	105	6032357	210.836	ug/L #	76
91)	1,2,3-Trichloropropane	11.337	75	619065	205.297	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.393	53	261964	204.364	ug/L #	80
93)	4-Chlorotoluene	11.454	91	5004545	207.499	ug/L #	100
94)	tert-Butylbenzene	11.672	119	5924582	213.773	ug/L	98
95)	Pentachloroethane	11.688	167	885749	219.319	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.750	105	5897618	226.458	ug/L	99
98)	sec-Butylbenzene	11.861	105	7598654	214.156	ug/L	100
99)	p-Isopropyltoluene	12.017	119	6142404	228.368	ug/L	97
100)	1,3-Dichlorobenzene	12.082	146	2911371	200.133	ug/L	99
101)	1,4-Dichlorobenzene	12.174	146	2791223	198.775	ug/L	99
102)	p-Diethylbenzene	12.394	119	3556383	204.222	ug/L	98
103)	n-Butylbenzene	12.452	91	4935593	204.295	ug/L	98
104)	1,2-Dichlorobenzene	12.600	146	2304458	202.342	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.194	119	4085988	201.524	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.389	155	91567	234.656	ug/L	98
107)	1,3,5-Trichlorobenzene	13.415	180	1551912	232.442	ug/L	97
108)	Hexachlorobutadiene	13.995	225	549838	214.590	ug/L	100
109)	1,2,4-Trichlorobenzene	14.020	180	1057048	209.180	ug/L	94
110)	Naphthalene	14.321	128	1424312	212.909	ug/L	100
111)	1,2,3-Trichlorobenzene	14.488	180	735144	209.029	ug/L	98

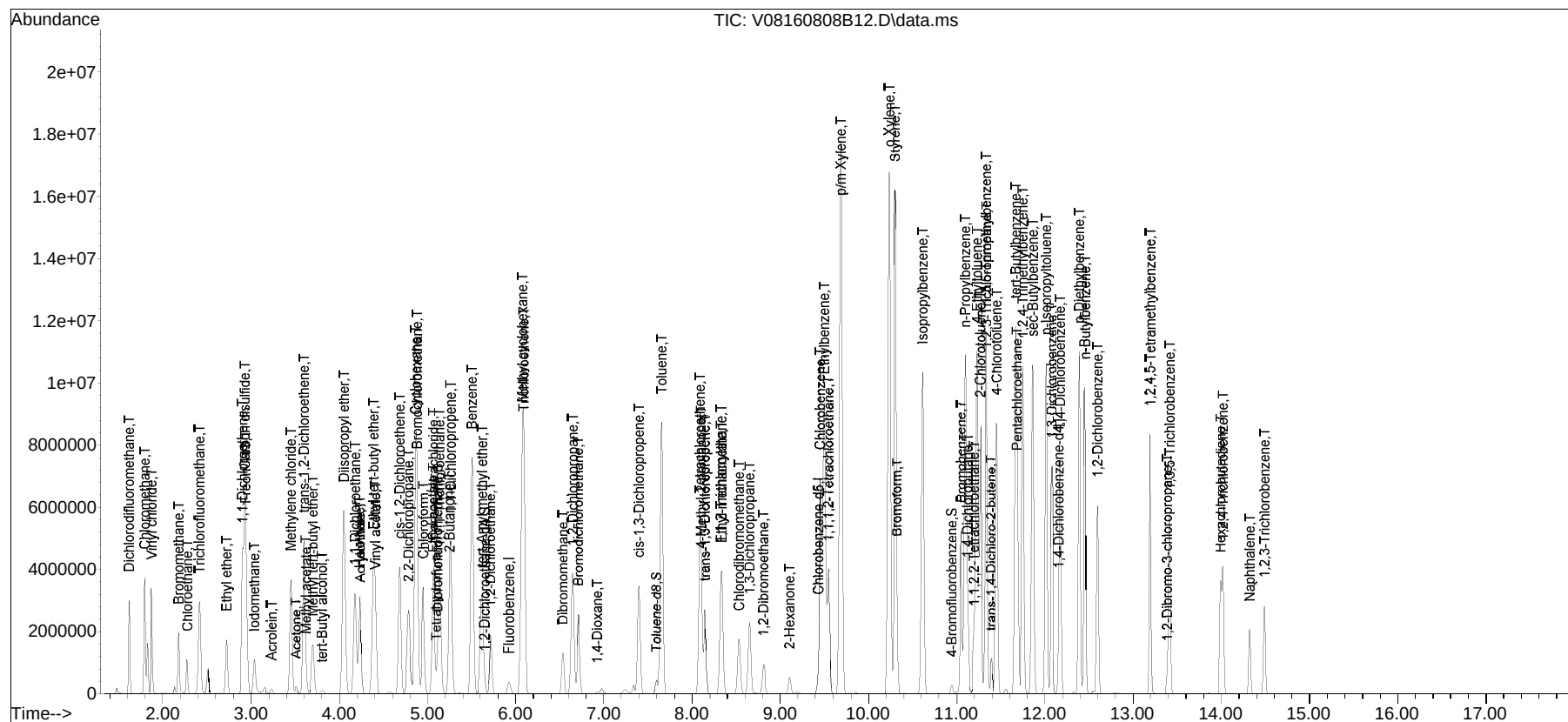
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B12.D
 Acq On : 8 Aug 2016 19:56
 Operator : VOA108:MS
 Sample : ISTD10
 Misc : WG921210
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 09 13:21:03 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 12:49:35 2016
 Response via : Initial Calibration

Sub List : 8260-CurvePenta - All compounds listed08160808B08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\1Q	Method	: V108_1600808_8260.m
Data File	: V08160808B12.D	Operator	: VOA108:MS
Date Inj'd	: 8/8/2016 19:56	Instrument	: VOA 108
Sample	: ISTD10	Quant Date	: 8/9/2016 1:20 pm

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

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTD3
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2 T	Dichlorodifluoromethane	0.246	0.342	-39.0#	124	0.00
3 T	Chloromethane	0.361	0.485	-34.3#	128	0.00
4 T	Vinyl chloride	0.338	0.400	-18.3	105	0.00
5 T	Bromomethane	* 10.000	9.804	2.0	133	0.00
6 T	Chloroethane	0.185	0.221	-19.5	104	0.00
7 T	Trichlorofluoromethane	0.357	0.428	-19.9	106	0.00
8 T	Ethyl ether	0.078	0.086	-10.3	104	0.00
10 T	1,1-Dichloroethene	0.198	0.224	-13.1	100	0.00
11 T	Carbon disulfide	0.670	0.742	-10.7	102	0.00
12 T	Freon-113	0.197	0.234	-18.8	104	0.00
13 T	Iodomethane	* 10.000	8.029	19.7	153	0.00
14 T	Acrolein	* 10.000	9.069	9.3	89	0.00
15 T	Methylene chloride	* 10.000	10.917	-9.2	98	0.00
17 T	Acetone	* 10.000	9.122	8.8	98	0.00
18 T	trans-1,2-Dichloroethene	0.241	0.262	-8.7	100	0.00
19 T	Methyl acetate	0.072	0.094	-30.6#	120	0.00
20 T	Methyl tert-butyl ether	0.309	0.361	-16.8	103	0.00
21 T	tert-Butyl alcohol	0.00585	0.00814	-39.1#	131	0.00
22 T	Diisopropyl ether	0.824	0.888	-7.8	101	0.00
23 T	1,1-Dichloroethane	0.509	0.559	-9.8	100	0.00
24 T	Halothane	0.168	0.201	-19.6	109	0.00
25 T	Acrylonitrile	* 10.000	10.124	-1.2	98	0.00
26 T	Ethyl tert-butyl ether	0.575	0.632	-9.9	104	0.00
27 T	Vinyl acetate	0.310	0.325	-4.8	102	0.00
28 T	cis-1,2-Dichloroethene	0.243	0.263	-8.2	100	0.00
29 T	2,2-Dichloropropane	0.303	0.327	-7.9	92	0.00
30 T	Bromochloromethane	0.090	0.097	-7.8	101	0.00
31 T	Cyclohexane	0.557	0.653	-17.2	102	0.00
32 T	Chloroform	0.407	0.444	-9.1	100	0.00
33 T	Ethyl acetate	0.099	0.092	7.1	95	0.00
34 T	Carbon tetrachloride	0.357	0.384	-7.6	97	0.00
35 T	Tetrahydrofuran	* 10.000	10.121	-1.2	98	0.00
36 S	Dibromofluoromethane	0.245	0.241	1.6	95	0.00
37 T	1,1,1-Trichloroethane	0.389	0.422	-8.5	98	0.00
39 T	2-Butanone	0.040	0.043	-7.5	101	0.00
40 T	1,1-Dichloropropene	0.327	0.396	-21.1#	109	0.00
41 T	Benzene	0.957	1.048	-9.5	100	0.00
42 T	tert-Amyl methyl ether	0.350	0.376	-7.4	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTD3
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.233	0.226	3.0	94	0.00
44 T	1,2-Dichloroethane	0.246	0.267	-8.5	100	0.00
47 T	Methyl cyclohexane	0.385	0.453	-17.7	105	0.00
48 T	Trichloroethene	0.258	0.282	-9.3	99	0.00
50 T	Dibromomethane	0.084	0.091	-8.3	101	0.00
51 T	1,2-Dichloropropane	0.246	0.269	-9.3	102	0.00
53 T	2-Chloroethyl vinyl ether	0.000	0.067	0.0	0#	0.00
54 T	Bromodichloromethane	0.260	0.275	-5.8	100	0.00
57 T	1,4-Dioxane	0.00079	0.00095	-20.3#	138	0.00
58 T	cis-1,3-Dichloropropene	0.281	0.298	-6.0	101	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
60 S	Toluene-d8	1.347	1.354	-0.5	97	0.00
61 T	Toluene	0.859	0.932	-8.5	100	0.00
62 T	4-Methyl-2-pentanone	* 10.000	9.250	7.5	105	0.00
63 T	Tetrachloroethene	0.359	0.407	-13.4	103	0.00
65 T	trans-1,3-Dichloropropene	0.288	0.298	-3.5	102	0.00
67 T	Ethyl methacrylate	* 10.000	7.947	20.5#	100	0.00
68 T	1,1,2-Trichloroethane	0.136	0.148	-8.8	98	0.00
69 T	Chlorodibromomethane	0.210	0.225	-7.1	101	0.00
70 T	1,3-Dichloropropane	0.294	0.329	-11.9	103	0.00
71 T	1,2-Dibromoethane	0.149	0.163	-9.4	104	0.00
72 T	2-Hexanone	* 10.000	9.071	9.3	112	0.00
73 T	Chlorobenzene	0.892	0.950	-6.5	99	0.00
74 T	Ethylbenzene	1.596	1.778	-11.4	100	0.00
75 T	1,1,1,2-Tetrachloroethane	0.288	0.308	-6.9	101	0.00
76 T	p/m Xylene	0.630	0.711	-12.9	101	0.00
77 T	o Xylene	0.566	0.665	-17.5	105	0.00
78 T	Styrene	0.882	1.023	-16.0	103	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
80 T	Bromoform	0.213	0.222	-4.2	99	0.00
82 T	Isopropylbenzene	3.481	3.937	-13.1	99	0.00
83 S	4-Bromofluorobenzene	0.977	0.971	0.6	96	0.00
84 T	Bromobenzene	0.653	0.717	-9.8	102	0.00
85 T	n-Propylbenzene	3.958	4.378	-10.6	98	0.00
86 T	1,4-Dichlorobutane	0.767	0.839	-9.4	100	0.00
87 T	1,1,2,2-Tetrachloroethane	0.344	0.381	-10.8	99	0.00
88 T	4-Ethyltoluene	3.282	3.924	-19.6	106	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTD3
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 T	2-Chlorotoluene	2.373	2.602	-9.7	99	0.00
90 T	1,3,5-Trimethylbenzene	2.676	2.948	-10.2	96	0.00
91 T	1,2,3-Trichloropropane	0.282	0.316	-12.1	105	0.00
92 T	trans-1,4-Dichloro-2-butene *	10.000	9.870	1.3	97	0.00
93 T	4-Chlorotoluene	2.256	2.494	-10.5	100	0.00
94 T	tert-Butylbenzene	2.592	2.861	-10.4	98	0.00
95 T	Pentachloroethane	0.378	0.403	-6.6	98	0.00
97 T	1,2,4-Trimethylbenzene	2.436	2.690	-10.4	99	0.00
98 T	sec-Butylbenzene	3.319	3.652	-10.0	96	0.00
99 T	p-Isopropyltoluene	2.516	2.734	-8.7	97	0.00
100 T	1,3-Dichlorobenzene	1.361	1.464	-7.6	98	0.00
101 T	1,4-Dichlorobenzene	1.313	1.387	-5.6	100	0.00
102 T	p-Diethylbenzene *	10.000	9.499	5.0	100	0.00
103 T	n-Butylbenzene *	10.000	9.382	6.2	94	0.00
104 T	1,2-Dichlorobenzene	1.065	1.168	-9.7	102	0.00
105 T	1,2,4,5-Tetramethylbenzene *	10.000	10.369	-3.7	105	0.00
106 T	1,2-Dibromo-3-chloropropane	0.037	0.037	0.0	105	0.00
107 T	1,3,5-Trichlorobenzene	0.625	0.642	-2.7	94	0.00
108 T	Hexachlorobutadiene	0.240	0.262	-9.2	105	0.00
109 T	1,2,4-Trichlorobenzene *	10.000	8.553	14.5	106	0.00
110 T	Naphthalene *	10.000	8.002	20.0	114	0.00
111 T	1,2,3-Trichlorobenzene *	10.000	9.261	7.4	113	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTD13
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

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

Internal Standards						
1) Fluorobenzene	5.924	96	282713	10.000	ug/L	0.00
Standard Area 1 = 293776			Recovery	=	96.23%	
59) Chlorobenzene-d5	9.435	117	199597	10.000	ug/L	0.00
Standard Area 1 = 205600			Recovery	=	97.08%	
79) 1,4-Dichlorobenzene-d4	12.157	152	89561	10.000	ug/L	0.00
Standard Area 1 = 93753			Recovery	=	95.53%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	68160	9.836	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.36%	
43) 1,2-Dichloroethane-d4	5.648	65	64028	9.702	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.02%	
60) Toluene-d8	7.600	98	270350	10.052	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.52%	
83) 4-Bromofluorobenzene	10.938	95	86925	9.934	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.34%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	96577	13.872	ug/L	99
3) Chloromethane	1.797	50	137086	13.448	ug/L	99
4) Vinyl chloride	1.875	62	112960	11.807	ug/L	100
5) Bromomethane	2.182	94	25263	9.804	ug/L	97
6) Chloroethane	2.296	64	62560	11.986	ug/L	100
7) Trichlorofluoromethane	2.433	101	120988	11.993	ug/L	99
8) Ethyl ether	2.726	74	24428	11.136	ug/L	92
10) 1,1-Dichloroethene	2.907	96	63445	11.335	ug/L	100
11) Carbon disulfide	2.932	76	209692	11.069	ug/L	99
12) Freon-113	2.943	101	66138	11.881	ug/L	93
13) Iodomethane	3.046	142	39113M1	8.029	ug/L	
14) Acrolein	3.230	56	4468	9.069	ug/L	91
15) Methylene chloride	3.454	84	64952	10.917	ug/L	94
17) Acetone	3.512	43	8593	9.122	ug/L	100
18) trans-1,2-Dichloroethene	3.599	96	74057	10.858	ug/L	99
19) Methyl acetate	3.621	43	26654	13.057	ug/L #	87
20) Methyl tert-butyl ether	3.702	73	102169	11.680	ug/L #	91
21) tert-Butyl alcohol	3.805	59	11503	69.519	ug/L #	96
22) Diisopropyl ether	4.053	45	250989	10.777	ug/L	95
23) 1,1-Dichloroethane	4.179	63	158161	10.989	ug/L	97
24) Halothane	4.232	117	56739	11.937	ug/L #	61

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTDL3
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.243	53	11897	10.124	ug/L	# 84
26) Ethyl tert-butyl ether	4.393	59	178606	10.984	ug/L	87
27) Vinyl acetate	4.416	43	91805	10.487	ug/L	# 94
28) cis-1,2-Dichloroethene	4.689	96	74391	10.820	ug/L	98
29) 2,2-Dichloropropane	4.787	77	92425	10.807	ug/L	100
30) Bromochloromethane	4.876	128	27432	10.825	ug/L	81
31) Cyclohexane	4.865	56	184509	11.716	ug/L	91
32) Chloroform	4.948	83	125658	10.910	ug/L	98
33) Ethyl acetate	5.065	43	26072	9.323	ug/L	# 93
34) Carbon tetrachloride	5.071	117	108476	10.750	ug/L	99
35) Tetrahydrofuran	5.102	42	10362M1	10.121	ug/L	
37) 1,1,1-Trichloroethane	5.143	97	119329	10.854	ug/L	# 96
39) 2-Butanone	5.258	43	12258	10.967	ug/L	# 70
40) 1,1-Dichloropropene	5.263	75	112022	12.107	ug/L	99
41) Benzene	5.509	78	296360	10.952	ug/L	97
42) tert-Amyl methyl ether	5.615	73	106402	10.738	ug/L	# 88
44) 1,2-Dichloroethane	5.715	62	75442	10.830	ug/L	97
47) Methyl cyclohexane	6.072	83	128078	11.760	ug/L	94
48) Trichloroethene	6.089	95	79645	10.930	ug/L	95
50) Dibromomethane	6.529	93	25684	10.833	ug/L	94
51) 1,2-Dichloropropane	6.641	63	76058	10.945	ug/L	# 91
53) 2-Chloroethyl vinyl ether	7.335	63	18834	No Calib	#	
54) Bromodichloromethane	6.711	83	77832	10.582	ug/L	# 98
57) 1,4-Dioxane	6.925	88	13387	595.809	ug/L	97
58) cis-1,3-Dichloropropene	7.394	75	84160	10.605	ug/L	97
61) Toluene	7.653	92	186055	10.848	ug/L	99
62) 4-Methyl-2-pentanone	8.108	58	9706	9.250	ug/L	95
63) Tetrachloroethene	8.085	166	81277	11.334	ug/L	94
65) trans-1,3-Dichloropropene	8.141	75	59537	10.349	ug/L	98
67) Ethyl methacrylate	8.334	69	30838	7.947	ug/L	88
68) 1,1,2-Trichloroethane	8.331	83	29502	10.861	ug/L	100
69) Chlorodibromomethane	8.534	129	44893	10.699	ug/L	98
70) 1,3-Dichloropropane	8.652	76	65598	11.181	ug/L	100
71) 1,2-Dibromoethane	8.813	107	32626	10.997	ug/L	96
72) 2-Hexanone	9.106	43	14850	9.071	ug/L	95
73) Chlorobenzene	9.452	112	189715	10.660	ug/L	88
74) Ethylbenzene	9.494	91	354909	11.141	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.536	131	61397	10.677	ug/L	99
76) p/m Xylene	9.681	106	284008	22.593	ug/L	91
77) o Xylene	10.227	106	265301	23.464	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTD3
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\160808B\V08160808B08.D
 Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.294	104	408412	23.189	ug/L	94
80)	Bromoform	10.316	173	19902	10.439	ug/L	99
82)	Isopropylbenzene	10.612	105	352597	11.311	ug/L	99
84)	Bromobenzene	11.050	156	64204	10.977	ug/L	99
85)	n-Propylbenzene	11.100	91	392115	11.062	ug/L	96
86)	1,4-Dichlorobutane	11.122	55	75165	10.943	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.192	83	34089	11.052	ug/L	99
88)	4-Ethyltoluene	11.225	105	351477	11.957	ug/L	98
89)	2-Chlorotoluene	11.265	91	233079	10.966	ug/L	97
90)	1,3,5-Trimethylbenzene	11.329	105	264028	11.015	ug/L #	76
91)	1,2,3-Trichloropropane	11.329	75	28266	11.189	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.387	53	9856	9.870	ug/L	99
93)	4-Chlorotoluene	11.451	91	223396	11.056	ug/L #	100
94)	tert-Butylbenzene	11.669	119	256224	11.036	ug/L	97
95)	Pentachloroethane	11.686	167	36090	10.667	ug/L #	100
97)	1,2,4-Trimethylbenzene	11.747	105	240883	11.041	ug/L	99
98)	sec-Butylbenzene	11.858	105	327047	11.003	ug/L	99
99)	p-Isopropyltoluene	12.015	119	244836	10.866	ug/L	96
100)	1,3-Dichlorobenzene	12.076	146	131158	10.762	ug/L	99
101)	1,4-Dichlorobenzene	12.171	146	124193	10.557	ug/L	98
102)	p-Diethylbenzene	12.391	119	132555	9.499	ug/L	98
103)	n-Butylbenzene	12.450	91	182567	9.382	ug/L	98
104)	1,2-Dichlorobenzene	12.597	146	104590	10.962	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.191	119	169239	10.369	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.387	155	3344	10.229	ug/L	95
107)	1,3,5-Trichlorobenzene	13.409	180	57508	10.282	ug/L	98
108)	Hexachlorobutadiene	13.992	225	23466	10.932	ug/L	97
109)	1,2,4-Trichlorobenzene	14.020	180	33693	8.553	ug/L #	94
110)	Naphthalene	14.321	128	40804	8.002	ug/L	100
111)	1,2,3-Trichlorobenzene	14.488	180	25514	9.261	ug/L	98

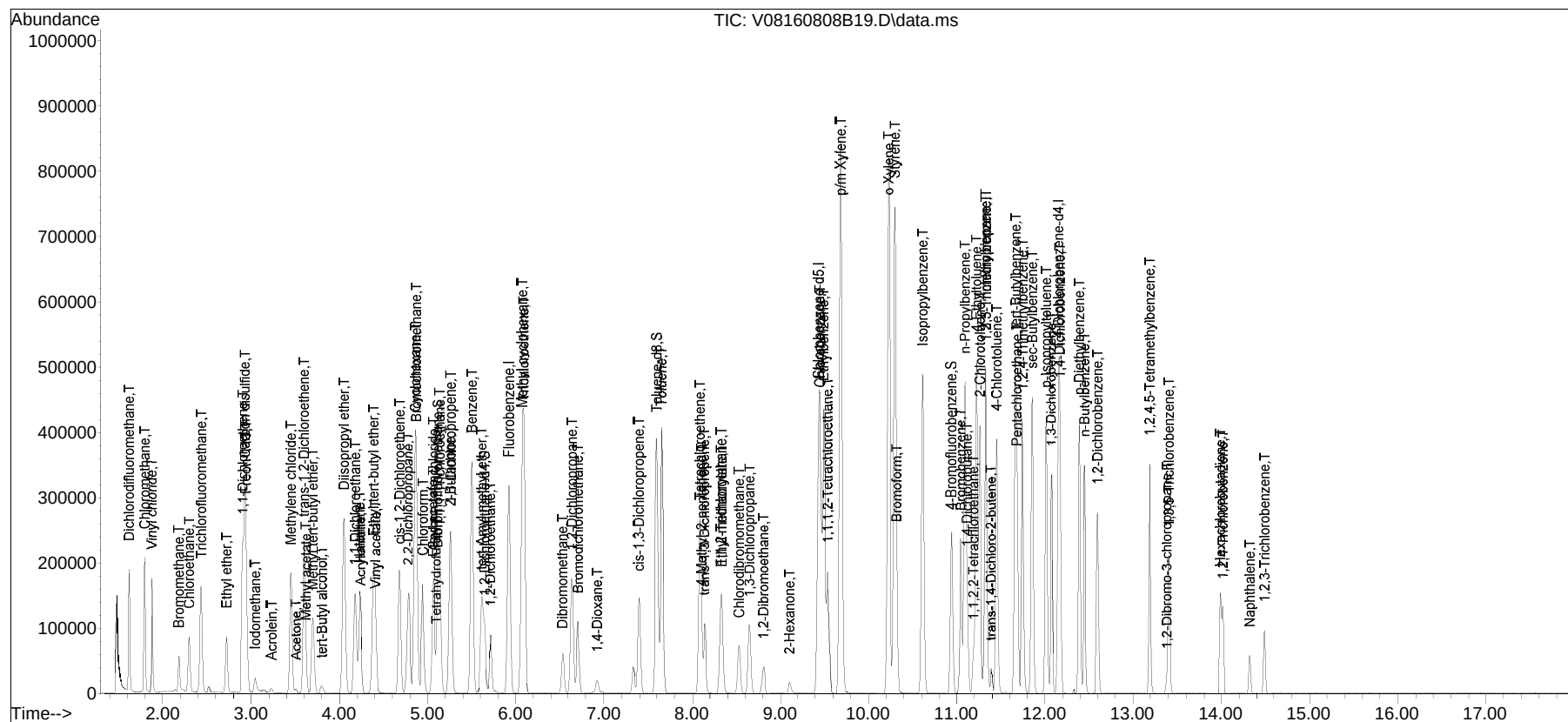
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\160808B\
 Data File : V08160808B19.D
 Acq On : 8 Aug 2016 23:13
 Operator : VOA108:MS
 Sample : CSTD L3
 Misc : WG921210
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 09 13:29:57 2016
 Quant Method : I:\VOLATILES\VOA108\2016\160808B\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

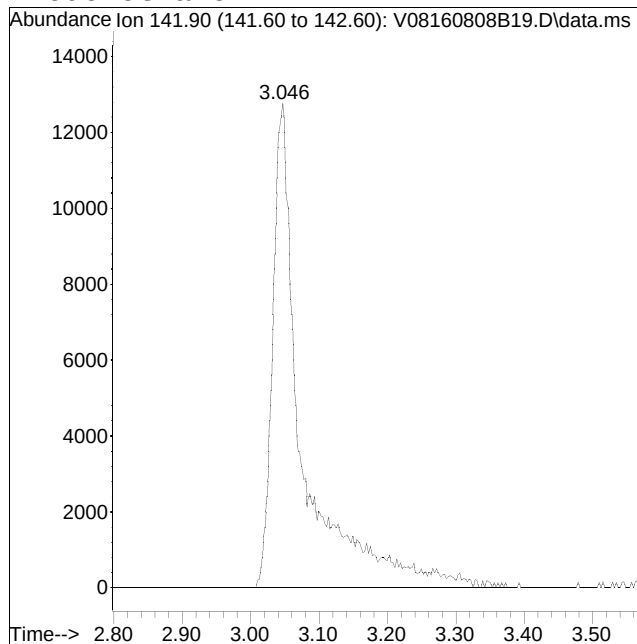
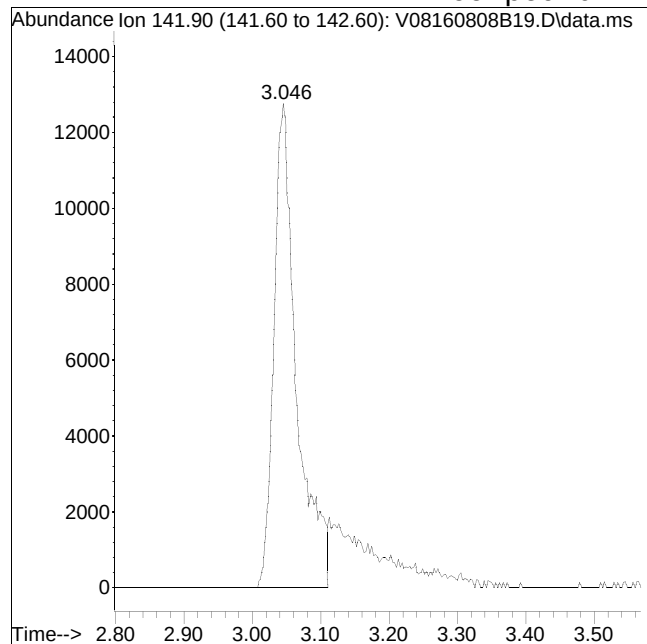
Sub List : 8260-CurvePenta - All compounds listed 08160808B08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08160808B19.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 23:13 Instrument : VOA 108
Sample : CSTDL3 Quant Date : 8/9/2016 1:29 pm

Compound #13: Iodomethane



Original Peak Response = 29385

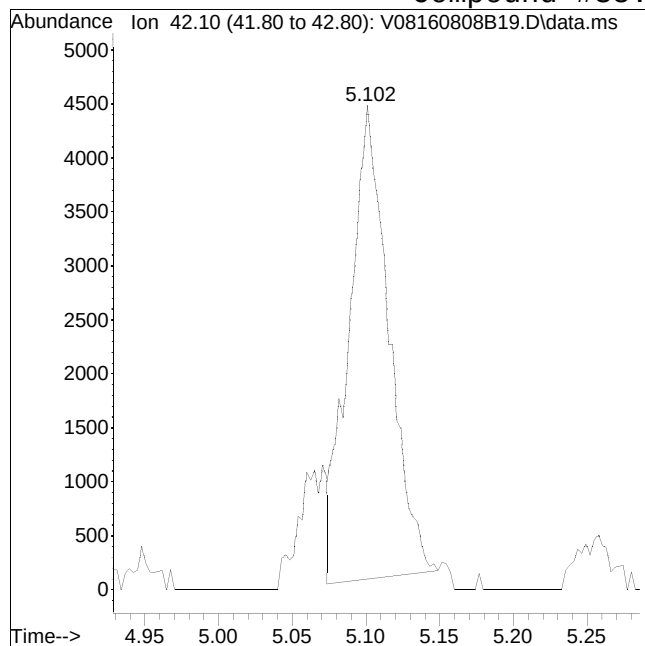
Manual Peak Response = 39113 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

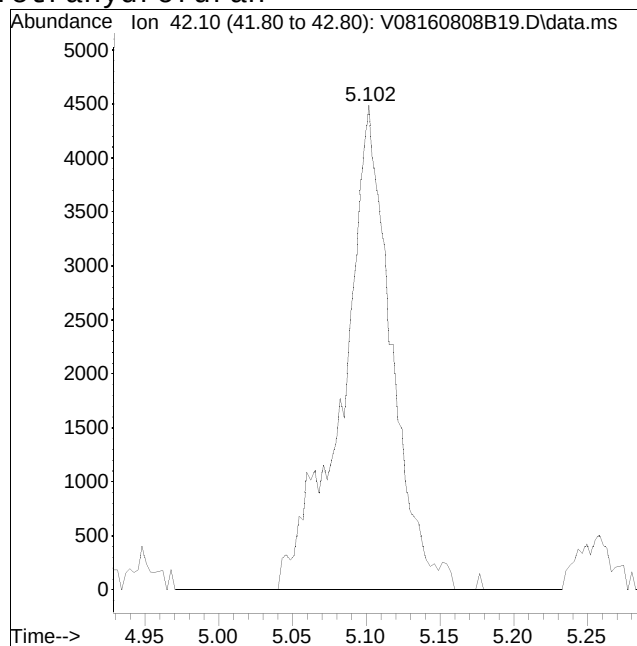
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08160808B19.D Operator : VOA108:MS
Date Inj'd : 8/8/2016 23:13 Instrument : VOA 108
Sample : CSTD L3 Quant Date : 8/9/2016 1:29 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 8222

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 10362 M1

Continuing Calibration

Continuing Calibration Form 7

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Lab File ID : V08161005A02
Sample No : WG939161-2
Channel :

Lab Number : L1630897
Project Number : CUE1601
Calibration Date : 10/05/16 09:56
Init. Calib. Date(s) : 08/08/16 08/08/16
Init. Calib. Times : 15:43 19:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	88	0
Dichlorodifluoromethane	0.246	0.255	-	-3.7	20	84	0
Chloromethane	0.361	0.377	-	-4.4	20	91	0
Vinyl chloride	0.338	0.325	-	3.8	20	78	0
Bromomethane	10	6.376	-	36.2*	20	78	0
Chloroethane	0.185	0.184	-	0.5	20	79	0
Trichlorofluoromethane	0.357	0.379	-	-6.2	20	86	0
Ethyl ether	0.078	0.066	-	15.4	20	73	0
1,1-Dichloroethene	0.198	0.2	-	-1	20	82	0
Carbon disulfide	0.67	0.673	-	-0.4	20	85	0
Freon-113	0.197	0.188	-	4.6	20	76	0
Iodomethane	10	8.393	-	16.1	20	147	0
Acrolein	10	7.184	-	28.2*	20	64	0
Methylene chloride	10	10.074	-	-0.7	20	83	0
Acetone	10	10.158	-	-1.6	20	99	-.01
trans-1,2-Dichloroethene	0.241	0.261	-	-8.3	20	91	0
Methyl acetate	0.072	0.073	-	-1.4	20	85	0
Methyl tert-butyl ether	0.309	0.295	-	4.5	20	77	0
tert-Butyl alcohol	0.00585	0.00593	-	-1.4	20	87	-.02
Diisopropyl ether	0.824	0.807	-	2.1	20	84	0
1,1-Dichloroethane	0.509	0.521	-	-2.4	20	85	0
Halothane	0.168	0.183	-	-8.9	20	90	0
Acrylonitrile	10	9.085	-	9.1	20	80	0
Ethyl tert-butyl ether	0.575	0.526	-	8.5	20	79	0
Vinyl acetate	0.31	0.304	-	1.9	20	87	0
cis-1,2-Dichloroethene	0.243	0.245	-	-0.8	20	85	0
2,2-Dichloropropane	0.303	0.327	-	-7.9	20	84	0
Bromochloromethane	0.09	0.084	-	6.7	20	80	0
Cyclohexane	0.557	0.549	-	1.4	20	79	0
Chloroform	0.407	0.431	-	-5.9	20	88	0
Ethyl acetate	0.099	0.088	-	11.1	20	83	0
Carbon tetrachloride	0.357	0.369	-	-3.4	20	86	0
Tetrahydrofuran	10	8.889	-	11.1	20	78	-.01
Dibromofluoromethane	0.245	0.226	-	7.8	20	82	0
1,1,1-Trichloroethane	0.389	0.421	-	-8.2	20	89	0
2-Butanone	0.04	0.04	-	0	20	85	-.01
1,1-Dichloropropene	0.327	0.333	-	-1.8	20	84	0
Benzene	0.957	0.979	-	-2.3	20	85	0
tert-Amyl methyl ether	0.35	0.309	-	11.7	20	77	0
1,2-Dichloroethane-d4	0.233	0.205	-	12	20	78	0
1,2-Dichloroethane	0.246	0.228	-	7.3	20	78	0
Methyl cyclohexane	0.385	0.352	-	8.6	20	74	0
Trichloroethene	0.258	0.274	-	-6.2	20	88	0
Dibromomethane	0.084	0.08	-	4.8	20	81	0
1,2-Dichloropropane	0.246	0.23	-	6.5	20	80	-.01

* Value outside of QC limits.



Continuing Calibration Form 7

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Lab File ID : V08161005A02
Sample No : WG939161-2
Channel :

Lab Number : L1630897
Project Number : CUE1601
Calibration Date : 10/05/16 09:56
Init. Calib. Date(s) : 08/08/16 08/08/16
Init. Calib. Times : 15:43 19:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.26	0.256	-	1.5	20	85	0
1,4-Dioxane	0.00079	0.00076	-	3.8	20	101	-.01
cis-1,3-Dichloropropene	0.281	0.239	-	14.9	20	74	-.01
Chlorobenzene-d5	1	1	-	0	20	82	-.01
Toluene-d8	1.347	1.38	-	-2.4	20	84	0
Toluene	0.859	0.951	-	-10.7	20	86	0
4-Methyl-2-pentanone	10	7.433	-	25.7*	20	70	0
Tetrachloroethene	0.359	0.372	-	-3.6	20	80	0
trans-1,3-Dichloropropene	0.288	0.27	-	6.2	20	78	0
Ethyl methacrylate	10	7.235	-	27.6*	20	77	0
1,1,2-Trichloroethane	0.136	0.138	-	-1.5	20	78	-.01
Chlorodibromomethane	0.21	0.207	-	1.4	20	78	0
1,3-Dichloropropane	0.294	0.282	-	4.1	20	75	-.01
1,2-Dibromoethane	0.149	0.142	-	4.7	20	77	0
2-Hexanone	10	7.154	-	28.5*	20	73	0
Chlorobenzene	0.892	0.887	-	0.6	20	78	0
Ethylbenzene	1.596	1.729	-	-8.3	20	83	0
1,1,1,2-Tetrachloroethane	0.288	0.277	-	3.8	20	77	0
p/m Xylene	0.63	0.67	-	-6.3	20	80	-.01
o Xylene	0.566	0.592	-	-4.6	20	80	0
Styrene	0.882	0.931	-	-5.6	20	79	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	77	0
Bromoform	0.213	0.218	-	-2.3	20	78	-.01
Isopropylbenzene	3.481	3.907	-	-12.2	20	79	0
4-Bromofluorobenzene	0.977	1.006	-	-3	20	80	0
Bromobenzene	0.653	0.656	-	-0.5	20	75	0
n-Propylbenzene	3.958	4.537	-	-14.6	20	82	0
1,4-Dichlorobutane	0.767	0.813	-	-6	20	79	0
1,1,2,2-Tetrachloroethane	0.344	0.364	-	-5.8	20	77	-.01
4-Ethyltoluene	3.282	3.755	-	-14.4	20	82	0
2-Chlorotoluene	2.373	2.777	-	-17	20	85	0
1,3,5-Trimethylbenzene	2.676	2.989	-	-11.7	20	79	0
1,2,3-Trichloropropane	0.282	0.281	-	0.4	20	75	0
trans-1,4-Dichloro-2-buten	10	10.257	-	-2.6	20	81	0
4-Chlorotoluene	2.256	2.567	-	-13.8	20	83	0
tert-Butylbenzene	2.592	2.418	-	6.7	20	67	0
1,2,4-Trimethylbenzene	2.436	2.654	-	-8.9	20	78	0
sec-Butylbenzene	3.319	3.522	-	-6.1	20	75	0
p-Isopropyltoluene	2.516	2.614	-	-3.9	20	75	0
1,3-Dichlorobenzene	1.361	1.369	-	-0.6	20	74	0
1,4-Dichlorobenzene	1.313	1.251	-	4.7	20	73	0
p-Diethylbenzene	10	9.03	-	9.7	20	76	0
n-Butylbenzene	10	9.491	-	5.1	20	77	0
1,2-Dichlorobenzene	1.065	1.038	-	2.5	20	73	0
1,2,4,5-Tetramethylbenzene	10	8.77	-	12.3	20	71	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : P. W. Grosser
 Project Name : CUE1601
 Instrument ID : VOA108
 Lab File ID : V08161005A02
 Sample No : WG939161-2
 Channel :

Lab Number : L1630897
 Project Number : CUE1601
 Calibration Date : 10/05/16 09:56
 Init. Calib. Date(s) : 08/08/16 08/08/16
 Init. Calib. Times : 15:43 19:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.037	0.029	-	21.6*	20	66	0
1,3,5-Trichlorobenzene	0.625	0.621	-	0.6	20	73	0
Hexachlorobutadiene	0.24	0.265	-	-10.4	20	86	0
1,2,4-Trichlorobenzene	10	6.593	-	34.1*	20	64	-.01
Naphthalene	10	5.687	-	43.1*	20	63	0
1,2,3-Trichlorobenzene	10	7.131	-	28.7*	20	69	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Lab File ID : V08161006A02
Sample No : WG939161-9
Channel :

Lab Number : L1630897
Project Number : CUE1601
Calibration Date : 10/06/16 09:34
Init. Calib. Date(s) : 08/08/16 08/08/16
Init. Calib. Times : 15:43 19:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	84	0
Dichlorodifluoromethane	0.246	0.242	-	1.6	20	76	0
Chloromethane	0.361	0.347	-	3.9	20	80	0
Vinyl chloride	0.338	0.294	-	13	20	67	0
Bromomethane	10	8.456	-	15.4	20	99	0
Chloroethane	0.185	0.177	-	4.3	20	72	0
Trichlorofluoromethane	0.357	0.362	-	-1.4	20	78	0
Ethyl ether	0.078	0.063	-	19.2	20	66	0
1,1-Dichloroethene	0.198	0.189	-	4.5	20	73	0
Carbon disulfide	0.67	0.634	-	5.4	20	76	0
Freon-113	0.197	0.178	-	9.6	20	69	0
Iodomethane	10	6.645	-	33.6*	20	108	0
Acrolein	10	7.444	-	25.6*	20	63	-.01
Methylene chloride	10	9.887	-	1.1	20	77	0
Acetone	10	9.783	-	2.2	20	91	-.01
trans-1,2-Dichloroethene	0.241	0.253	-	-5	20	84	0
Methyl acetate	0.072	0.07	-	2.8	20	78	0
Methyl tert-butyl ether	0.309	0.285	-	7.8	20	71	0
tert-Butyl alcohol	0.00585	0.00511	-	12.6	20	71	-.02
Diisopropyl ether	0.824	0.797	-	3.3	20	79	0
1,1-Dichloroethane	0.509	0.498	-	2.2	20	78	0
Halothane	0.168	0.173	-	-3	20	82	0
Acrylonitrile	10	8.838	-	11.6	20	74	0
Ethyl tert-butyl ether	0.575	0.525	-	8.7	20	76	0
Vinyl acetate	0.31	0.305	-	1.6	20	84	0
cis-1,2-Dichloroethene	0.243	0.241	-	0.8	20	79	0
2,2-Dichloropropane	0.303	0.31	-	-2.3	20	76	0
Bromochloromethane	0.09	0.084	-	6.7	20	76	-.01
Cyclohexane	0.557	0.514	-	7.7	20	70	0
Chloroform	0.407	0.414	-	-1.7	20	81	0
Ethyl acetate	0.099	0.087	-	12.1	20	78	0
Carbon tetrachloride	0.357	0.349	-	2.2	20	77	0
Tetrahydrofuran	10	8.488	-	15.1	20	71	-.01
Dibromofluoromethane	0.245	0.225	-	8.2	20	78	0
1,1,1-Trichloroethane	0.389	0.401	-	-3.1	20	81	-.01
2-Butanone	0.04	0.038	-	5	20	76	0
1,1-Dichloropropene	0.327	0.313	-	4.3	20	75	0
Benzene	0.957	0.944	-	1.4	20	78	0
tert-Amyl methyl ether	0.35	0.307	-	12.3	20	73	-.01
1,2-Dichloroethane-d4	0.233	0.198	-	15	20	72	-.01
1,2-Dichloroethane	0.246	0.229	-	6.9	20	74	-.01
Methyl cyclohexane	0.385	0.329	-	14.5	20	66	0
Trichloroethene	0.258	0.258	-	0	20	79	0
Dibromomethane	0.084	0.078	-	7.1	20	75	0
1,2-Dichloropropane	0.246	0.228	-	7.3	20	75	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : P. W. Grosser
Project Name : CUE1601
Instrument ID : VOA108
Lab File ID : V08161006A02
Sample No : WG939161-9
Channel :

Lab Number : L1630897
Project Number : CUE1601
Calibration Date : 10/06/16 09:34
Init. Calib. Date(s) : 08/08/16 08/08/16
Init. Calib. Times : 15:43 19:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.26	0.254	-	2.3	20	81	0
1,4-Dioxane	0.00079	0.00071	-	10.1	20	91	-0.02
cis-1,3-Dichloropropene	0.281	0.238	-	15.3	20	70	-0.01
Chlorobenzene-d5	1	1	-	0	20	78	-0.01
Toluene-d8	1.347	1.372	-	-1.9	20	79	0
Toluene	0.859	0.905	-	-5.4	20	78	0
4-Methyl-2-pentanone	10	7.374	-	26.3*	20	66	-0.01
Tetrachloroethene	0.359	0.351	-	2.2	20	71	0
trans-1,3-Dichloropropene	0.288	0.266	-	7.6	20	73	0
Ethyl methacrylate	10	7.316	-	26.8*	20	73	0
1,1,2-Trichloroethane	0.136	0.14	-	-2.9	20	75	-0.01
Chlorodibromomethane	0.21	0.204	-	2.9	20	73	0
1,3-Dichloropropane	0.294	0.282	-	4.1	20	71	-0.01
1,2-Dibromoethane	0.149	0.143	-	4	20	73	0
2-Hexanone	10	6.862	-	31.4*	20	66	0
Chlorobenzene	0.892	0.87	-	2.5	20	73	-0.01
Ethylbenzene	1.596	1.661	-	-4.1	20	75	-0.01
1,1,1,2-Tetrachloroethane	0.288	0.279	-	3.1	20	73	-0.01
p/m Xylene	0.63	0.64	-	-1.6	20	73	-0.01
o Xylene	0.566	0.568	-	-0.4	20	72	0
Styrene	0.882	0.9	-	-2	20	73	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
Bromoform	0.213	0.216	-	-1.4	20	72	0
Isopropylbenzene	3.481	3.63	-	-4.3	20	69	0
4-Bromofluorobenzene	0.977	1.019	-	-4.3	20	75	-0.01
Bromobenzene	0.653	0.658	-	-0.8	20	70	0
n-Propylbenzene	3.958	4.229	-	-6.8	20	71	0
1,4-Dichlorobutane	0.767	0.813	-	-6	20	73	0
1,1,2,2-Tetrachloroethane	0.344	0.356	-	-3.5	20	70	0
4-Ethyltoluene	3.282	3.496	-	-6.5	20	71	0
2-Chlorotoluene	2.373	2.635	-	-11	20	75	0
1,3,5-Trimethylbenzene	2.676	2.834	-	-5.9	20	69	0
1,2,3-Trichloropropane	0.282	0.3	-	-6.4	20	75	-0.01
trans-1,4-Dichloro-2-buten	10	9.959	-	0.4	20	73	0
4-Chlorotoluene	2.256	2.487	-	-10.2	20	75	0
tert-Butylbenzene	2.592	2.219	-	14.4	20	57	0
1,2,4-Trimethylbenzene	2.436	2.511	-	-3.1	20	69	0
sec-Butylbenzene	3.319	3.184	-	4.1	20	63	0
p-Isopropyltoluene	2.516	2.372	-	5.7	20	63	0
1,3-Dichlorobenzene	1.361	1.33	-	2.3	20	67	-0.01
1,4-Dichlorobenzene	1.313	1.244	-	5.3	20	67	0
p-Diethylbenzene	10	8.35	-	16.5	20	65	0
n-Butylbenzene	10	8.473	-	15.3	20	64	0
1,2-Dichlorobenzene	1.065	1.018	-	4.4	20	67	0
1,2,4,5-Tetramethylbenzene	10	8.582	-	14.2	20	65	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : P. W. Grosser
 Project Name : CUE1601
 Instrument ID : VOA108
 Lab File ID : V08161006A02
 Sample No : WG939161-9
 Channel :

Lab Number : L1630897
 Project Number : CUE1601
 Calibration Date : 10/06/16 09:34
 Init. Calib. Date(s) : 08/08/16 08/08/16
 Init. Calib. Times : 15:43 19:56

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.037	0.031	-	16.2	20	65	0
1,3,5-Trichlorobenzene	0.625	0.59	-	5.6	20	65	0
Hexachlorobutadiene	0.24	0.241	-	-0.4	20	73	0
1,2,4-Trichlorobenzene	10	6.506	-	34.9*	20	59	0
Naphthalene	10	5.766	-	42.3*	20	59	-.01
1,2,3-Trichlorobenzene	10	6.773	-	32.3*	20	61	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	88	0.00
2 T	Dichlorodifluoromethane	0.246	0.255	-3.7	84	0.00
3 T	Chloromethane	0.361	0.377	-4.4	91	0.00
4 T	Vinyl chloride	0.338	0.325	3.8	78	0.00
5 T	Bromomethane	* 10.000	6.376	36.2#	78	0.00
6 T	Chloroethane	0.185	0.184	0.5	79	0.00
7 T	Trichlorofluoromethane	0.357	0.379	-6.2	86	0.00
8 T	Ethyl ether	0.078	0.066	15.4	73	0.00
10 T	1,1-Dichloroethene	0.198	0.200	-1.0	82	0.00
11 T	Carbon disulfide	0.670	0.673	-0.4	85	0.00
12 T	Freon-113	0.197	0.188	4.6	76	0.00
13 T	Iodomethane	* 10.000	8.393	16.1	147	0.00
14 T	Acrolein	* 10.000	7.184	28.2#	64	0.00
15 T	Methylene chloride	* 10.000	10.074	-0.7	83	0.00
17 T	Acetone	* 10.000	10.158	-1.6	99	-0.01
18 T	trans-1,2-Dichloroethene	0.241	0.261	-8.3	91	0.00
19 T	Methyl acetate	0.072	0.073	-1.4	85	0.00
20 T	Methyl tert-butyl ether	0.309	0.295	4.5	77	0.00
21 T	tert-Butyl alcohol	0.00585	0.00593	-1.4	87	-0.02
22 T	Diisopropyl ether	0.824	0.807	2.1	84	0.00
23 T	1,1-Dichloroethane	0.509	0.521	-2.4	85	0.00
24 T	Halothane	0.168	0.183	-8.9	90	0.00
25 T	Acrylonitrile	* 10.000	9.085	9.1	80	0.00
26 T	Ethyl tert-butyl ether	0.575	0.526	8.5	79	0.00
27 T	Vinyl acetate	0.310	0.304	1.9	87	0.00
28 T	cis-1,2-Dichloroethene	0.243	0.245	-0.8	85	0.00
29 T	2,2-Dichloropropane	0.303	0.327	-7.9	84	0.00
30 T	Bromochloromethane	0.090	0.084	6.7	80	0.00
31 T	Cyclohexane	0.557	0.549	1.4	79	0.00
32 T	Chloroform	0.407	0.431	-5.9	88	0.00
33 T	Ethyl acetate	0.099	0.088	11.1	83	0.00
34 T	Carbon tetrachloride	0.357	0.369	-3.4	86	0.00
35 T	Tetrahydrofuran	* 10.000	8.889	11.1	78	-0.01
36 S	Dibromofluoromethane	0.245	0.226	7.8	82	0.00
37 T	1,1,1-Trichloroethane	0.389	0.421	-8.2	89	0.00
39 T	2-Butanone	0.040	0.040	0.0	85	-0.01
40 T	1,1-Dichloropropene	0.327	0.333	-1.8	84	0.00
41 T	Benzene	0.957	0.979	-2.3	85	0.00
42 T	tert-Amyl methyl ether	0.350	0.309	11.7	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.233	0.205	12.0	78	0.00
44 T	1,2-Dichloroethane	0.246	0.228	7.3	78	0.00
47 T	Methyl cyclohexane	0.385	0.352	8.6	74	0.00
48 T	Trichloroethene	0.258	0.274	-6.2	88	0.00
50 T	Dibromomethane	0.084	0.080	4.8	81	0.00
51 T	1,2-Dichloropropane	0.246	0.230	6.5	80	-0.01
53 T	2-Chloroethyl vinyl ether	0.000	0.023	0.0	0#	0.00
54 T	Bromodichloromethane	0.260	0.256	1.5	85	0.00
57 T	1,4-Dioxane	0.00079	0.00076	3.8	101	-0.01
58 T	cis-1,3-Dichloropropene	0.281	0.239	14.9	74	-0.01
59 I	Chlorobenzene-d5	1.000	1.000	0.0	82	-0.01
60 S	Toluene-d8	1.347	1.380	-2.4	84	0.00
61 T	Toluene	0.859	0.951	-10.7	86	0.00
62 T	4-Methyl-2-pentanone	* 10.000	7.433	25.7#	70	0.00
63 T	Tetrachloroethene	0.359	0.372	-3.6	80	0.00
65 T	trans-1,3-Dichloropropene	0.288	0.270	6.2	78	0.00
67 T	Ethyl methacrylate	* 10.000	7.235	27.6#	77	0.00
68 T	1,1,2-Trichloroethane	0.136	0.138	-1.5	78	-0.01
69 T	Chlorodibromomethane	0.210	0.207	1.4	78	0.00
70 T	1,3-Dichloropropane	0.294	0.282	4.1	75	-0.01
71 T	1,2-Dibromoethane	0.149	0.142	4.7	77	0.00
72 T	2-Hexanone	* 10.000	7.154	28.5#	73	0.00
73 T	Chlorobenzene	0.892	0.887	0.6	78	0.00
74 T	Ethylbenzene	1.596	1.729	-8.3	83	0.00
75 T	1,1,1,2-Tetrachloroethane	0.288	0.277	3.8	77	0.00
76 T	p/m Xylene	0.630	0.670	-6.3	80	-0.01
77 T	o Xylene	0.566	0.592	-4.6	80	0.00
78 T	Styrene	0.882	0.931	-5.6	79	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00
80 T	Bromoform	0.213	0.218	-2.3	78	-0.01
82 T	Isopropylbenzene	3.481	3.907	-12.2	79	0.00
83 S	4-Bromofluorobenzene	0.977	1.006	-3.0	80	0.00
84 T	Bromobenzene	0.653	0.656	-0.5	75	0.00
85 T	n-Propylbenzene	3.958	4.537	-14.6	82	0.00
86 T	1,4-Dichlorobutane	0.767	0.813	-6.0	79	0.00
87 T	1,1,2,2-Tetrachloroethane	0.344	0.364	-5.8	77	-0.01
88 T	4-Ethyltoluene	3.282	3.755	-14.4	82	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 T	2-Chlorotoluene	2.373	2.777	-17.0	85	0.00
90 T	1,3,5-Trimethylbenzene	2.676	2.989	-11.7	79	0.00
91 T	1,2,3-Trichloropropane	0.282	0.281	0.4	75	0.00
92 T	trans-1,4-Dichloro-2-butene *	10.000	10.257	-2.6	81	0.00
93 T	4-Chlorotoluene	2.256	2.567	-13.8	83	0.00
94 T	tert-Butylbenzene	2.592	2.418	6.7	67	0.00
97 T	1,2,4-Trimethylbenzene	2.436	2.654	-8.9	78	0.00
98 T	sec-Butylbenzene	3.319	3.522	-6.1	75	0.00
99 T	p-Isopropyltoluene	2.516	2.614	-3.9	75	0.00
100 T	1,3-Dichlorobenzene	1.361	1.369	-0.6	74	0.00
101 T	1,4-Dichlorobenzene	1.313	1.251	4.7	73	0.00
102 T	p-Diethylbenzene *	10.000	9.030	9.7	76	0.00
103 T	n-Butylbenzene *	10.000	9.491	5.1	77	0.00
104 T	1,2-Dichlorobenzene	1.065	1.038	2.5	73	0.00
105 T	1,2,4,5-Tetramethylbenzene *	10.000	8.770	12.3	71	0.00
106 T	1,2-Dibromo-3-chloropropane	0.037	0.029	21.6#	66	0.00
107 T	1,3,5-Trichlorobenzene	0.625	0.621	0.6	73	0.00
108 T	Hexachlorobutadiene	0.240	0.265	-10.4	86	0.00
109 T	1,2,4-Trichlorobenzene *	10.000	6.593	34.1#	64	-0.01
110 T	Naphthalene *	10.000	5.687	43.1#	63	0.00
111 T	1,2,3-Trichlorobenzene *	10.000	7.131	28.7#	69	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.921	96	258468	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.424	117	169443	10.000	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	12.148	152	72223	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.116	113	58517	9.236	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.36%		
43) 1,2-Dichloroethane-d4	5.643	65	53059	8.794	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.94%		
60) Toluene-d8	7.592	98	233794	10.240	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.40%		
83) 4-Bromofluorobenzene	10.935	95	72674	10.299	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.99%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.621	85	65930	10.358	ug/L	100
3) Chloromethane	1.797	50	97416	10.453	ug/L	99
4) Vinyl chloride	1.878	62	83969	9.600	ug/L	100
5) Bromomethane	2.185	94	14790M1	6.376	ug/L	
6) Chloroethane	2.305	64	47516	9.957	ug/L	96
7) Trichlorofluoromethane	2.436	101	98000	10.626	ug/L	99
8) Ethyl ether	2.726	74	17124	8.539	ug/L	94
10) 1,1-Dichloroethene	2.910	96	51649	10.093	ug/L	96
11) Carbon disulfide	2.935	76	174074	10.051	ug/L	100
12) Freon-113	2.946	101	48486	9.527	ug/L	75
13) Iodomethane	3.046	142	37545M1	8.393	ug/L	
14) Acrolein	3.228	56	3190	7.184	ug/L #	79
15) Methylene chloride	3.451	84	54958	10.074	ug/L	94
17) Acetone	3.504	43	8742	10.158	ug/L	95
18) trans-1,2-Dichloroethene	3.599	96	67341	10.799	ug/L	94
19) Methyl acetate	3.615	43	18803	10.075	ug/L #	84
20) Methyl tert-butyl ether	3.696	73	76268	9.536	ug/L #	90
21) tert-Butyl alcohol	3.794	59	7665	50.669	ug/L #	79
22) Diisopropyl ether	4.045	45	208568	9.796	ug/L	94
23) 1,1-Dichloroethane	4.176	63	134741	10.240	ug/L	98
24) Halothane	4.226	117	47186	10.859	ug/L #	60
25) Acrylonitrile	4.237	53	9719	9.085	ug/L #	84
26) Ethyl tert-butyl ether	4.388	59	135990	9.148	ug/L	91
27) Vinyl acetate	4.410	43	78607	9.821	ug/L #	94
28) cis-1,2-Dichloroethene	4.681	96	63384	10.084	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29)	2,2-Dichloropropane	4.784	77	84606	10.821	ug/L	99
30)	Bromochloromethane	4.873	128	21773	9.398	ug/L	90
31)	Cyclohexane	4.865	56	141977	9.861	ug/L	91
32)	Chloroform	4.940	83	111307	10.571	ug/L	98
33)	Ethyl acetate	5.057	43	22838	8.933	ug/L #	96
34)	Carbon tetrachloride	5.065	117	95471	10.349	ug/L	99
35)	Tetrahydrofuran	5.090	42	8279M1	8.889	ug/L	
37)	1,1,1-Trichloroethane	5.141	97	108880	10.833	ug/L #	97
39)	2-Butanone	5.241	43	10356	10.134	ug/L #	76
40)	1,1-Dichloropropene	5.258	75	86049	10.172	ug/L	99
41)	Benzene	5.500	78	253037	10.228	ug/L	99
42)	tert-Amyl methyl ether	5.609	73	79949	8.825	ug/L	95
44)	1,2-Dichloroethane	5.710	62	58962	9.259	ug/L	98
47)	Methyl cyclohexane	6.069	83	90859	9.125	ug/L	98
48)	Trichloroethene	6.089	95	70790	10.626	ug/L	98
50)	Dibromomethane	6.529	93	20727	9.562	ug/L	99
51)	1,2-Dichloropropane	6.630	63	59517	9.368	ug/L	97
53)	2-Chloroethyl vinyl ether	7.330	63	5827	No Calib	#	
54)	Bromodichloromethane	6.702	83	66171	9.841	ug/L #	98
57)	1,4-Dioxane	6.914	88	9804	477.272	ug/L #	91
58)	cis-1,3-Dichloropropene	7.388	75	61723	8.507	ug/L	96
61)	Toluene	7.648	92	161135	11.067	ug/L	100
62)	4-Methyl-2-pentanone	8.099	58	6501M1	7.433	ug/L	
63)	Tetrachloroethene	8.080	166	63088	10.363	ug/L	98
65)	trans-1,3-Dichloropropene	8.136	75	45684	9.355	ug/L	99
67)	Ethyl methacrylate	8.328	69	23647	7.235	ug/L	87
68)	1,1,2-Trichloroethane	8.322	83	23418	10.155	ug/L	100
69)	Chlorodibromomethane	8.523	129	35026	9.833	ug/L	99
70)	1,3-Dichloropropane	8.640	76	47768	9.591	ug/L	100
71)	1,2-Dibromoethane	8.802	107	23991	9.525	ug/L	98
72)	2-Hexanone	9.103	43	9736M1	7.154	ug/L	
73)	Chlorobenzene	9.446	112	150289	9.947	ug/L	99
74)	Ethylbenzene	9.485	91	292909	10.831	ug/L	98
75)	1,1,1,2-Tetrachloroethane	9.533	131	46856	9.599	ug/L	97
76)	p/m Xylene	9.669	106	227088	21.280	ug/L	97
77)	o Xylene	10.216	106	200623	20.901	ug/L	97
78)	Styrene	10.288	104	315418	21.096	ug/L	97
80)	Bromoform	10.305	173	15715	10.221	ug/L	99
82)	Isopropylbenzene	10.604	105	282149	11.224	ug/L	98
84)	Bromobenzene	11.044	156	47343	10.037	ug/L	99
85)	n-Propylbenzene	11.092	91	327652	11.462	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	1,4-Dichlorobutane	11.114	55	58744	10.606	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.184	83	26264	10.559	ug/L	96
88)	4-Ethyltoluene	11.220	105	271224	11.442	ug/L	98
89)	2-Chlorotoluene	11.256	91	200547	11.700	ug/L	99
90)	1,3,5-Trimethylbenzene	11.320	105	215876	11.169	ug/L #	77
91)	1,2,3-Trichloropropane	11.326	75	20272	9.951	ug/L	97
92)	trans-1,4-Dichloro-2-b...	11.384	53	8284	10.257	ug/L #	88
93)	4-Chlorotoluene	11.443	91	185418	11.380	ug/L #	100
94)	tert-Butylbenzene	11.660	119	174601	9.326	ug/L	90
97)	1,2,4-Trimethylbenzene	11.741	105	191649	10.893	ug/L	99
98)	sec-Butylbenzene	11.850	105	254388	10.613	ug/L	99
99)	p-Isopropyltoluene	12.009	119	188827	10.392	ug/L	98
100)	1,3-Dichlorobenzene	12.070	146	98896	10.063	ug/L	99
101)	1,4-Dichlorobenzene	12.165	146	90369	9.526	ug/L	97
102)	p-Diethylbenzene	12.386	119	101357	9.030	ug/L	97
103)	n-Butylbenzene	12.441	91	148999	9.491	ug/L	100
104)	1,2-Dichlorobenzene	12.592	146	74943	9.741	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.186	119	114528	8.770	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.381	155	2086	7.913	ug/L	87
107)	1,3,5-Trichlorobenzene	13.406	180	44824	9.938	ug/L	98
108)	Hexachlorobutadiene	13.986	225	19166	11.072	ug/L	97
109)	1,2,4-Trichlorobenzene	14.008	180	20460	6.593	ug/L #	94
110)	Naphthalene	14.315	128	22404	5.687	ug/L	100
111)	1,2,3-Trichlorobenzene	14.483	180	15499	7.131	ug/L	95

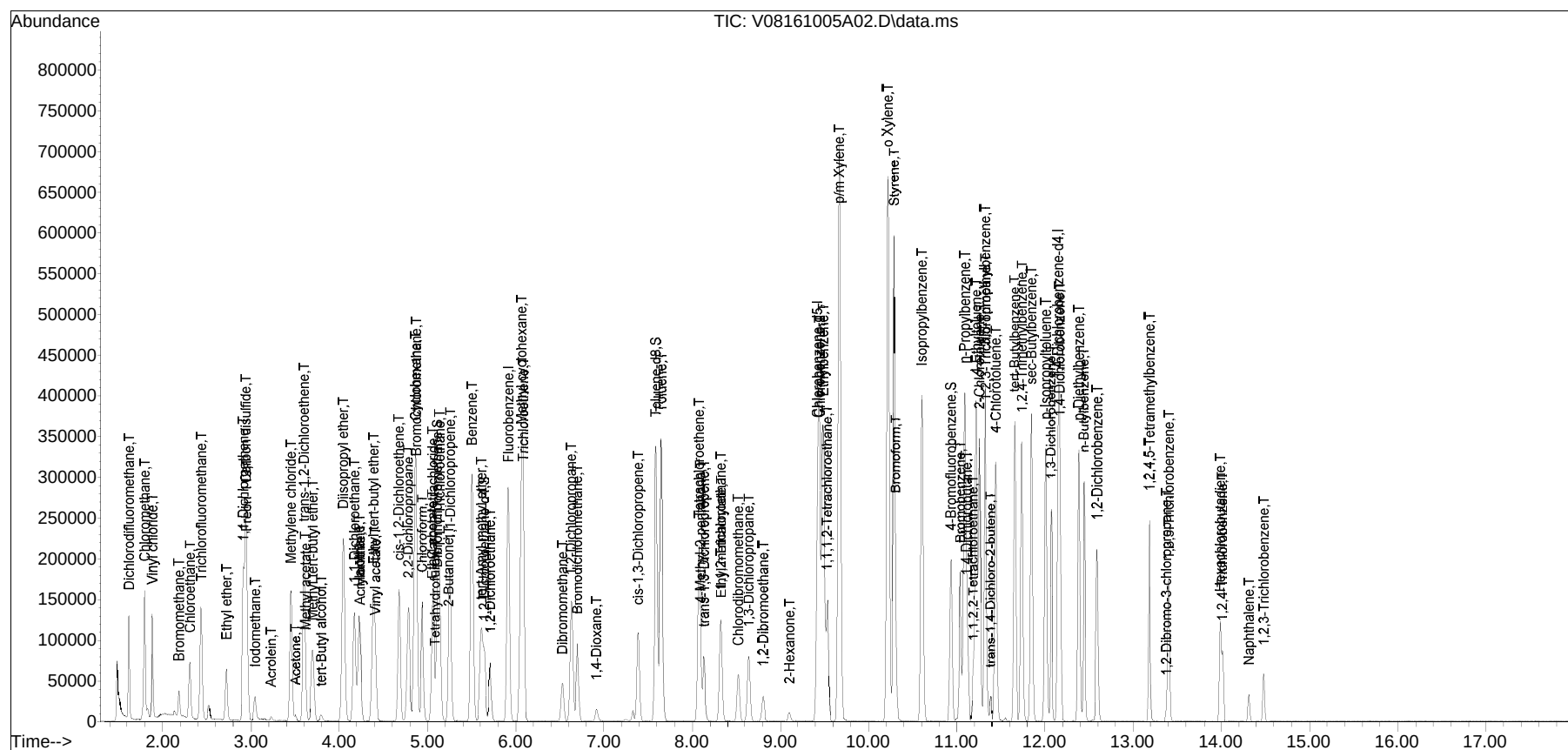
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-2
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

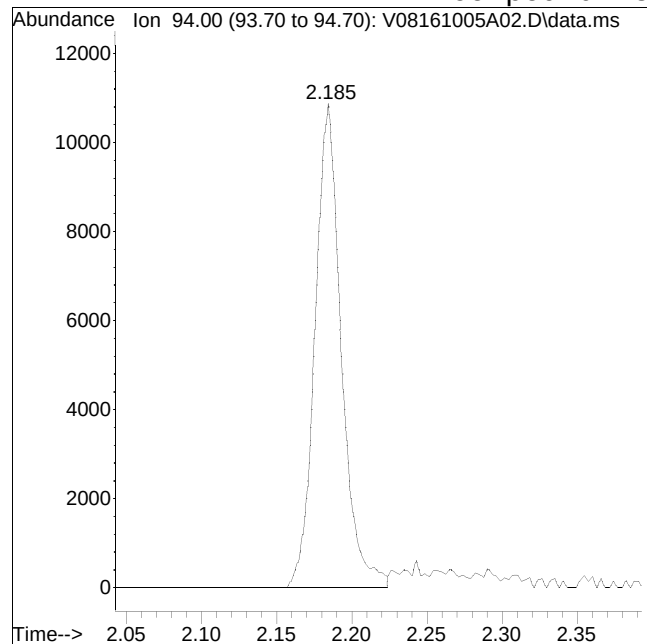
Sub List : 8260-Curve - Megamix plus Diox



Manual Integration Report

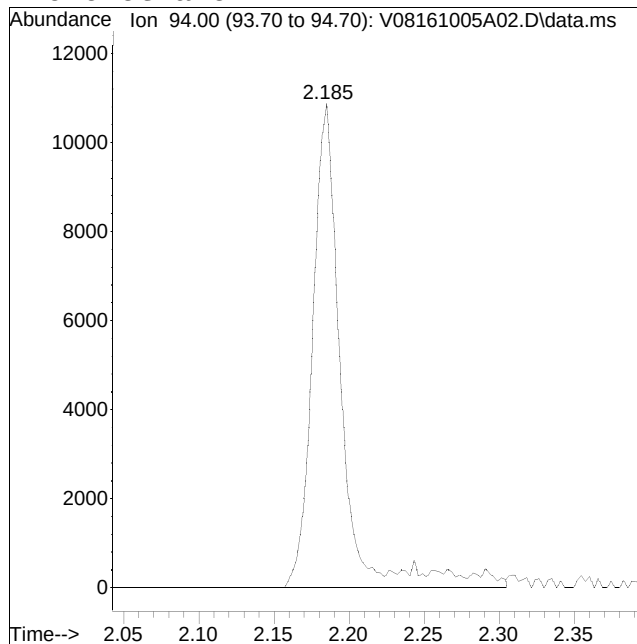
Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-2 Quant Date : 10/5/2016 10:13 am

Compound #5: Bromomethane



Original Peak Response = 13242

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

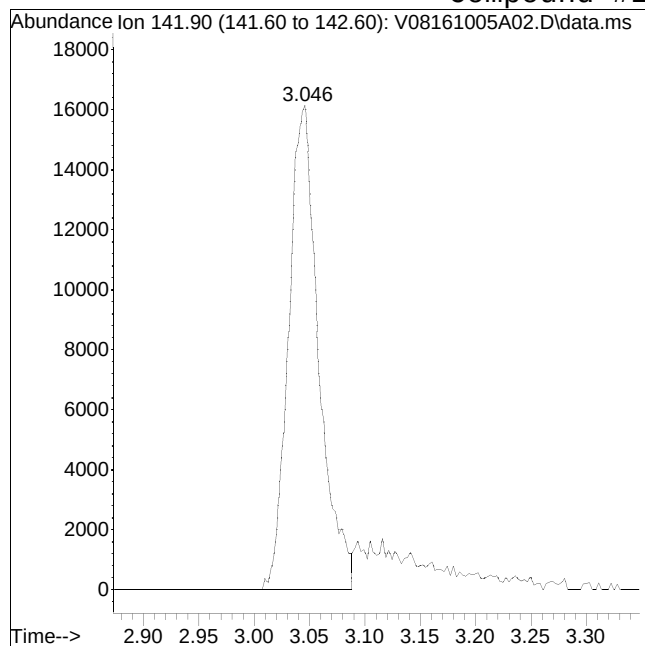


Manual Peak Response = 14790 M1

Manual Integration Report

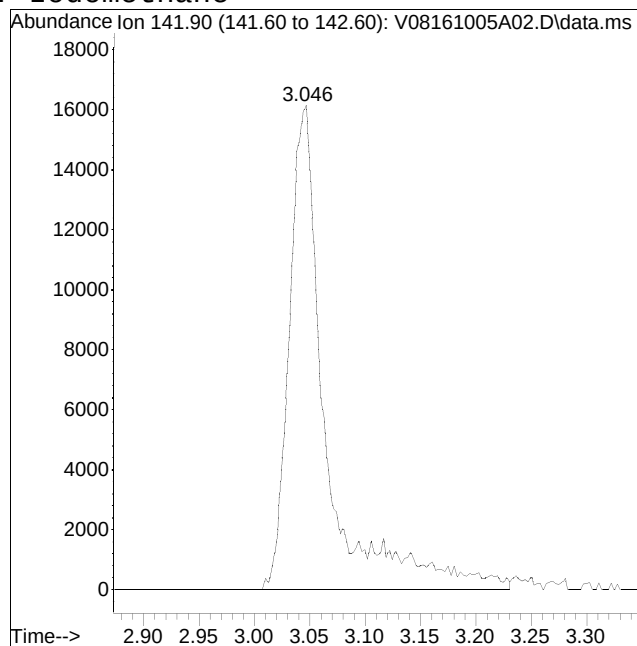
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-2 Quant Date : 10/5/2016 10:13 am

Compound #13: Iodomethane



Original Peak Response = 30542

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

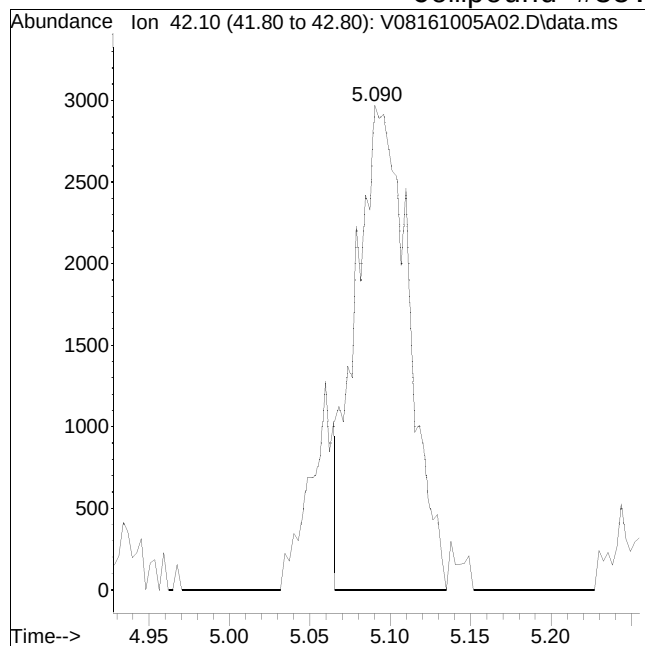


Manual Peak Response = 37545 M1

Manual Integration Report

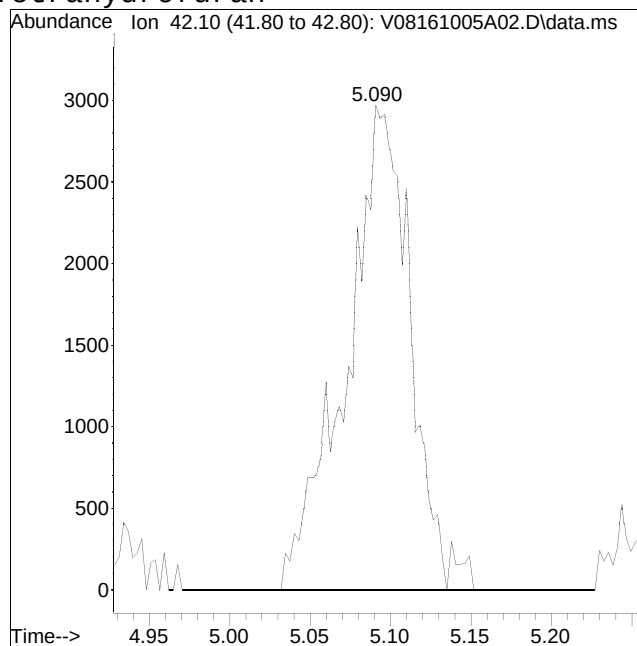
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-2 Quant Date : 10/5/2016 10:13 am

Compound #35: Tetrahydrofuran



Original Peak Response = 6847

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

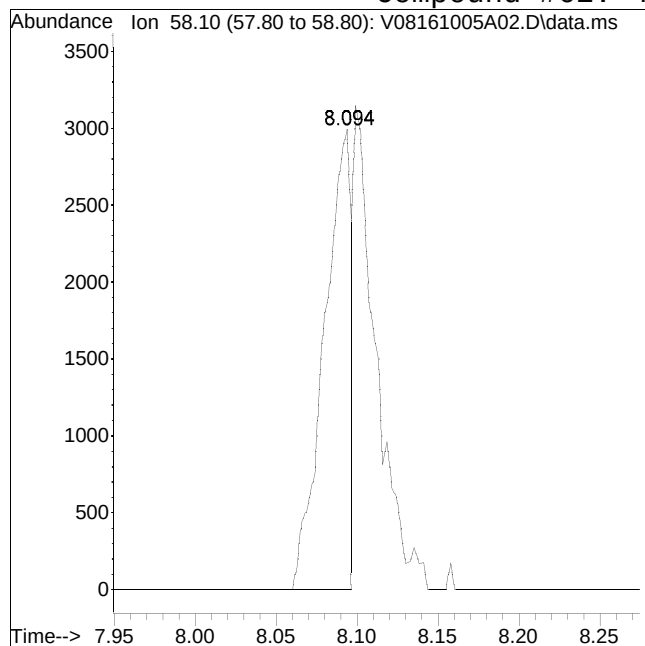


Manual Peak Response = 8279 M1

Manual Integration Report

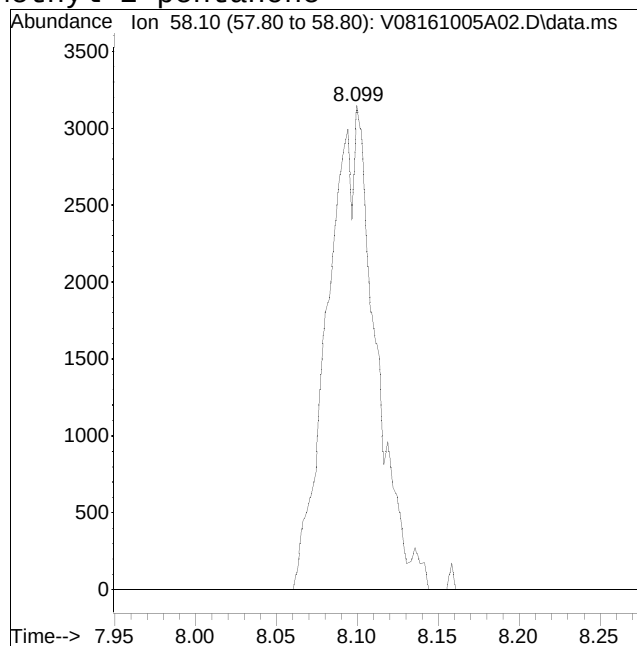
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-2 Quant Date : 10/5/2016 10:13 am

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 3454

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



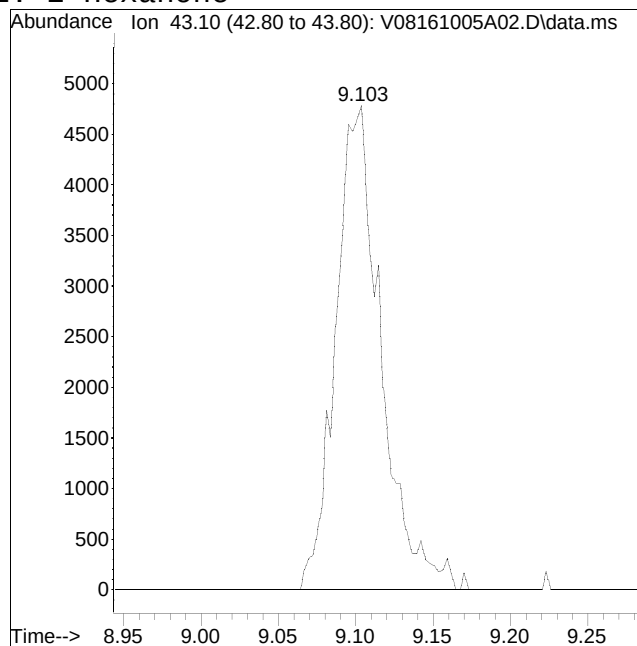
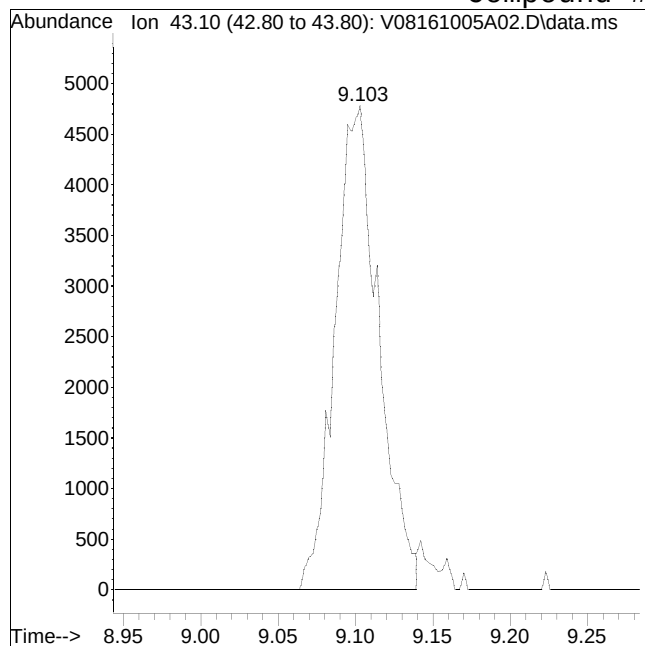
Manual Peak Response = 6501 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10
Data File : V08161005A02.D
Date Inj'd : 10/5/2016 9:56 am
Sample : WG939161-2

Method : V108_1600808_8260.m
Operator : VOA108:PD
Instrument : VOA 108
Quant Date : 10/5/2016 10:13 am

Compound #72: 2-Hexanone



Original Peak Response = 9351

Manual Peak Response = 9736 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	84	0.00
2 T	Dichlorodifluoromethane	0.246	0.242	1.6	76	0.00
3 T	Chloromethane	0.361	0.347	3.9	80	0.00
4 T	Vinyl chloride	0.338	0.294	13.0	67	0.00
5 T	Bromomethane	* 10.000	8.456	15.4	99	0.00
6 T	Chloroethane	0.185	0.177	4.3	72	0.00
7 T	Trichlorofluoromethane	0.357	0.362	-1.4	78	0.00
8 T	Ethyl ether	0.078	0.063	19.2	66	0.00
10 T	1,1-Dichloroethene	0.198	0.189	4.5	73	0.00
11 T	Carbon disulfide	0.670	0.634	5.4	76	0.00
12 T	Freon-113	0.197	0.178	9.6	69	0.00
13 T	Iodomethane	* 10.000	6.645	33.6#	108	0.00
14 T	Acrolein	* 10.000	7.444	25.6#	63	-0.01
15 T	Methylene chloride	* 10.000	9.887	1.1	77	0.00
17 T	Acetone	* 10.000	9.783	2.2	91	-0.01
18 T	trans-1,2-Dichloroethene	0.241	0.253	-5.0	84	0.00
19 T	Methyl acetate	0.072	0.070	2.8	78	0.00
20 T	Methyl tert-butyl ether	0.309	0.285	7.8	71	0.00
21 T	tert-Butyl alcohol	0.00585	0.00511	12.6	71	-0.02
22 T	Diisopropyl ether	0.824	0.797	3.3	79	0.00
23 T	1,1-Dichloroethane	0.509	0.498	2.2	78	0.00
24 T	Halothane	0.168	0.173	-3.0	82	0.00
25 T	Acrylonitrile	* 10.000	8.838	11.6	74	0.00
26 T	Ethyl tert-butyl ether	0.575	0.525	8.7	76	0.00
27 T	Vinyl acetate	0.310	0.305	1.6	84	0.00
28 T	cis-1,2-Dichloroethene	0.243	0.241	0.8	79	0.00
29 T	2,2-Dichloropropane	0.303	0.310	-2.3	76	0.00
30 T	Bromochloromethane	0.090	0.084	6.7	76	-0.01
31 T	Cyclohexane	0.557	0.514	7.7	70	0.00
32 T	Chloroform	0.407	0.414	-1.7	81	0.00
33 T	Ethyl acetate	0.099	0.087	12.1	78	0.00
34 T	Carbon tetrachloride	0.357	0.349	2.2	77	0.00
35 T	Tetrahydrofuran	* 10.000	8.488	15.1	71	-0.01
36 S	Dibromofluoromethane	0.245	0.225	8.2	78	0.00
37 T	1,1,1-Trichloroethane	0.389	0.401	-3.1	81	-0.01
39 T	2-Butanone	0.040	0.038	5.0	76	0.00
40 T	1,1-Dichloropropene	0.327	0.313	4.3	75	0.00
41 T	Benzene	0.957	0.944	1.4	78	0.00
42 T	tert-Amyl methyl ether	0.350	0.307	12.3	73	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.233	0.198	15.0	72	-0.01
44 T	1,2-Dichloroethane	0.246	0.229	6.9	74	-0.01
47 T	Methyl cyclohexane	0.385	0.329	14.5	66	0.00
48 T	Trichloroethene	0.258	0.258	0.0	79	0.00
50 T	Dibromomethane	0.084	0.078	7.1	75	0.00
51 T	1,2-Dichloropropane	0.246	0.228	7.3	75	0.00
53 T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-7.34#
54 T	Bromodichloromethane	0.260	0.254	2.3	81	0.00
57 T	1,4-Dioxane	0.00079	0.00071	10.1	91	-0.02
58 T	cis-1,3-Dichloropropene	0.281	0.238	15.3	70	-0.01
59 I	Chlorobenzene-d5	1.000	1.000	0.0	78	-0.01
60 S	Toluene-d8	1.347	1.372	-1.9	79	0.00
61 T	Toluene	0.859	0.905	-5.4	78	0.00
62 T	4-Methyl-2-pentanone	* 10.000	7.374	26.3#	66	-0.01
63 T	Tetrachloroethene	0.359	0.351	2.2	71	0.00
65 T	trans-1,3-Dichloropropene	0.288	0.266	7.6	73	0.00
67 T	Ethyl methacrylate	* 10.000	7.316	26.8#	73	0.00
68 T	1,1,2-Trichloroethane	0.136	0.140	-2.9	75	-0.01
69 T	Chlorodibromomethane	0.210	0.204	2.9	73	0.00
70 T	1,3-Dichloropropane	0.294	0.282	4.1	71	-0.01
71 T	1,2-Dibromoethane	0.149	0.143	4.0	73	0.00
72 T	2-Hexanone	* 10.000	6.862	31.4#	66	0.00
73 T	Chlorobenzene	0.892	0.870	2.5	73	-0.01
74 T	Ethylbenzene	1.596	1.661	-4.1	75	-0.01
75 T	1,1,1,2-Tetrachloroethane	0.288	0.279	3.1	73	-0.01
76 T	p/m Xylene	0.630	0.640	-1.6	73	-0.01
77 T	o Xylene	0.566	0.568	-0.4	72	0.00
78 T	Styrene	0.882	0.900	-2.0	73	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00
80 T	Bromoform	0.213	0.216	-1.4	72	0.00
82 T	Isopropylbenzene	3.481	3.630	-4.3	69	0.00
83 S	4-Bromofluorobenzene	0.977	1.019	-4.3	75	-0.01
84 T	Bromobenzene	0.653	0.658	-0.8	70	0.00
85 T	n-Propylbenzene	3.958	4.229	-6.8	71	0.00
86 T	1,4-Dichlorobutane	0.767	0.813	-6.0	73	0.00
87 T	1,1,2,2-Tetrachloroethane	0.344	0.356	-3.5	70	0.00
88 T	4-Ethyltoluene	3.282	3.496	-6.5	71	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 T	2-Chlorotoluene	2.373	2.635	-11.0	75	0.00
90 T	1,3,5-Trimethylbenzene	2.676	2.834	-5.9	69	0.00
91 T	1,2,3-Trichloropropane	0.282	0.300	-6.4	75	-0.01
92 T	trans-1,4-Dichloro-2-butene *	10.000	9.959	0.4	73	0.00
93 T	4-Chlorotoluene	2.256	2.487	-10.2	75	0.00
94 T	tert-Butylbenzene	2.592	2.219	14.4	57	0.00
97 T	1,2,4-Trimethylbenzene	2.436	2.511	-3.1	69	0.00
98 T	sec-Butylbenzene	3.319	3.184	4.1	63	0.00
99 T	p-Isopropyltoluene	2.516	2.372	5.7	63	0.00
100 T	1,3-Dichlorobenzene	1.361	1.330	2.3	67	-0.01
101 T	1,4-Dichlorobenzene	1.313	1.244	5.3	67	0.00
102 T	p-Diethylbenzene *	10.000	8.350	16.5	65	0.00
103 T	n-Butylbenzene *	10.000	8.473	15.3	64	0.00
104 T	1,2-Dichlorobenzene	1.065	1.018	4.4	67	0.00
105 T	1,2,4,5-Tetramethylbenzene *	10.000	8.582	14.2	65	0.00
106 T	1,2-Dibromo-3-chloropropane	0.037	0.031	16.2	65	0.00
107 T	1,3,5-Trichlorobenzene	0.625	0.590	5.6	65	0.00
108 T	Hexachlorobutadiene	0.240	0.241	-0.4	73	0.00
109 T	1,2,4-Trichlorobenzene *	10.000	6.506	34.9#	59	0.00
110 T	Naphthalene *	10.000	5.766	42.3#	59	-0.01
111 T	1,2,3-Trichlorobenzene *	10.000	6.773	32.3#	61	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.916	96	246373	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.424	117	160139	10.000	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	12.149	152	67154	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	55556	9.199	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.99%		
43) 1,2-Dichloroethane-d4	5.640	65	48761	8.478	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	84.78%		
60) Toluene-d8	7.592	98	219783	10.186	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.86%		
83) 4-Bromofluorobenzene	10.930	95	68415	10.427	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.27%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	59558	9.816	ug/L	99
3) Chloromethane	1.794	50	85429	9.616	ug/L	98
4) Vinyl chloride	1.875	62	72361	8.679	ug/L	97
5) Bromomethane	2.182	94	18889M1	8.456	ug/L	
6) Chloroethane	2.305	64	43525	9.569	ug/L	99
7) Trichlorofluoromethane	2.433	101	89223	10.149	ug/L	99
8) Ethyl ether	2.723	74	15468	8.091	ug/L	98
10) 1,1-Dichloroethene	2.910	96	46496	9.532	ug/L	96
11) Carbon disulfide	2.935	76	156116	9.456	ug/L	99
12) Freon-113	2.943	101	43836	9.036	ug/L	76
13) Iodomethane	3.046	142	27612M1	6.645	ug/L	
14) Acrolein	3.225	56	3158	7.444	ug/L	84
15) Methylene chloride	3.451	84	51451	9.887	ug/L	95
17) Acetone	3.504	43	8027	9.783	ug/L	96
18) trans-1,2-Dichloroethene	3.599	96	62338	10.488	ug/L	93
19) Methyl acetate	3.615	43	17346	9.751	ug/L #	89
20) Methyl tert-butyl ether	3.696	73	70156	9.203	ug/L #	91
21) tert-Butyl alcohol	3.794	59	6293	43.642	ug/L #	79
22) Diisopropyl ether	4.045	45	196361	9.675	ug/L	95
23) 1,1-Dichloroethane	4.173	63	122746	9.786	ug/L	99
24) Halothane	4.223	117	42641	10.294	ug/L #	60
25) Acrylonitrile	4.234	53	9002	8.838	ug/L #	88
26) Ethyl tert-butyl ether	4.391	59	129460	9.136	ug/L	91
27) Vinyl acetate	4.407	43	75212	9.859	ug/L #	93
28) cis-1,2-Dichloroethene	4.681	96	59338	9.903	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29)	2,2-Dichloropropane	4.781	77	76391	10.250	ug/L	98
30)	Bromochloromethane	4.870	128	20652	9.352	ug/L	86
31)	Cyclohexane	4.862	56	126683	9.231	ug/L	92
32)	Chloroform	4.940	83	101944	10.157	ug/L	99
33)	Ethyl acetate	5.060	43	21312	8.745	ug/L #	92
34)	Carbon tetrachloride	5.065	117	85998	9.780	ug/L	100
35)	Tetrahydrofuran	5.090	42	7521M1	8.488	ug/L	
37)	1,1,1-Trichloroethane	5.132	97	98791	10.312	ug/L #	96
39)	2-Butanone	5.247	43	9270	9.517	ug/L #	74
40)	1,1-Dichloropropene	5.258	75	77013	9.551	ug/L	100
41)	Benzene	5.503	78	232485	9.859	ug/L	99
42)	tert-Amyl methyl ether	5.604	73	75612	8.756	ug/L	94
44)	1,2-Dichloroethane	5.707	62	56358	9.284	ug/L	98
47)	Methyl cyclohexane	6.067	83	80987	8.533	ug/L	97
48)	Trichloroethene	6.083	95	63500	10.000	ug/L	98
50)	Dibromomethane	6.527	93	19155	9.271	ug/L	97
51)	1,2-Dichloropropane	6.635	63	56092	9.262	ug/L	97
53)	2-Chloroethyl vinyl ether	0.000		0	N.D.	d	
54)	Bromodichloromethane	6.705	83	62608	9.768	ug/L #	98
57)	1,4-Dioxane	6.909	88	8790M1	448.916	ug/L	
58)	cis-1,3-Dichloropropene	7.386	75	58537	8.464	ug/L	98
61)	Toluene	7.648	92	144932	10.532	ug/L	98
62)	4-Methyl-2-pentanone	8.091	58	6091	7.374	ug/L #	87
63)	Tetrachloroethene	8.083	166	56262	9.779	ug/L	98
65)	trans-1,3-Dichloropropene	8.138	75	42657	9.242	ug/L	99
67)	Ethyl methacrylate	8.331	69	22621	7.316	ug/L	86
68)	1,1,2-Trichloroethane	8.323	83	22454	10.303	ug/L #	83
69)	Chlorodibromomethane	8.523	129	32598	9.683	ug/L	95
70)	1,3-Dichloropropane	8.640	76	45108	9.583	ug/L	100
71)	1,2-Dibromoethane	8.808	107	22947	9.640	ug/L	98
72)	2-Hexanone	9.103	43	8788	6.862	ug/L #	90
73)	Chlorobenzene	9.441	112	139286	9.754	ug/L	88
74)	Ethylbenzene	9.483	91	266034	10.409	ug/L	99
75)	1,1,1,2-Tetrachloroethane	9.527	131	44608	9.669	ug/L	97
76)	p/m Xylene	9.672	106	205133	20.339	ug/L	97
77)	o Xylene	10.216	106	181961	20.058	ug/L	98
78)	Styrene	10.289	104	288265	20.400	ug/L	99
80)	Bromoform	10.308	173	14527	10.162	ug/L	97
82)	Isopropylbenzene	10.604	105	243768	10.429	ug/L	98
84)	Bromobenzene	11.044	156	44187	10.075	ug/L	100
85)	n-Propylbenzene	11.092	91	283968	10.684	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	1,4-Dichlorobutane	11.114	55	54606	10.603	ug/L	96
87)	1,1,2,2-Tetrachloroethane	11.186	83	23877	10.324	ug/L	99
88)	4-Ethyltoluene	11.217	105	234781	10.653	ug/L	98
89)	2-Chlorotoluene	11.256	91	176980	11.105	ug/L	99
90)	1,3,5-Trimethylbenzene	11.320	105	190282	10.587	ug/L #	76
91)	1,2,3-Trichloropropane	11.323	75	20114	10.619	ug/L #	91
92)	trans-1,4-Dichloro-2-b...	11.382	53	7462	9.959	ug/L	94
93)	4-Chlorotoluene	11.446	91	167043	11.026	ug/L #	100
94)	tert-Butylbenzene	11.661	119	149020	8.560	ug/L	90
97)	1,2,4-Trimethylbenzene	11.739	105	168642	10.309	ug/L	100
98)	sec-Butylbenzene	11.850	105	213836	9.594	ug/L	99
99)	p-Isopropyltoluene	12.006	119	159277	9.427	ug/L	98
100)	1,3-Dichlorobenzene	12.068	146	89345	9.778	ug/L	98
101)	1,4-Dichlorobenzene	12.165	146	83514	9.468	ug/L	97
102)	p-Diethylbenzene	12.386	119	86787	8.350	ug/L	98
103)	n-Butylbenzene	12.441	91	123071	8.473	ug/L	100
104)	1,2-Dichlorobenzene	12.589	146	68336	9.552	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.186	119	104093	8.582	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.378	155	2058	8.396	ug/L	98
107)	1,3,5-Trichlorobenzene	13.403	180	39620	9.447	ug/L	98
108)	Hexachlorobutadiene	13.986	225	16208	10.070	ug/L	99
109)	1,2,4-Trichlorobenzene	14.014	180	18748	6.506	ug/L #	93
110)	Naphthalene	14.313	128	21167	5.766	ug/L	100
111)	1,2,3-Trichlorobenzene	14.483	180	13618	6.773	ug/L	94

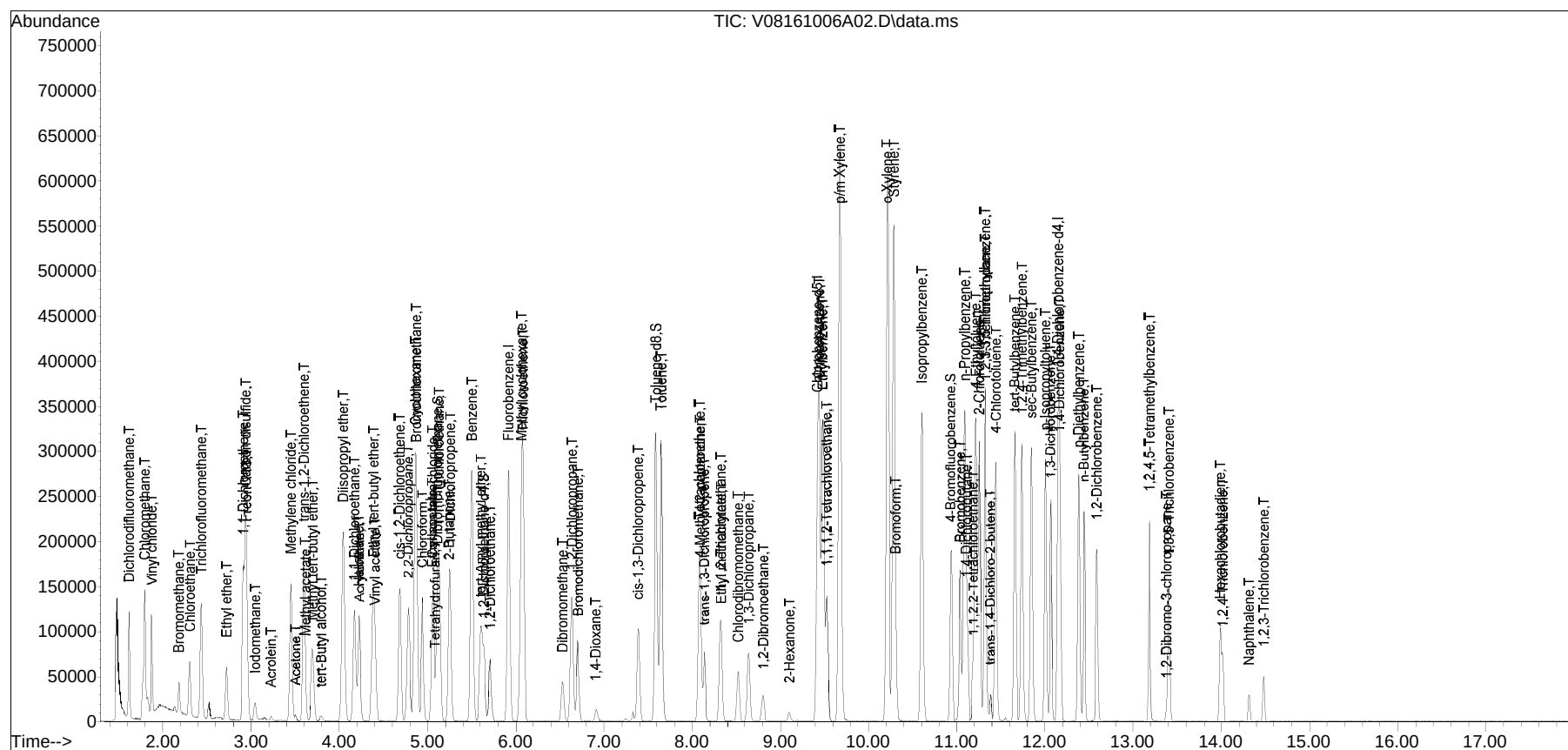
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-9
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

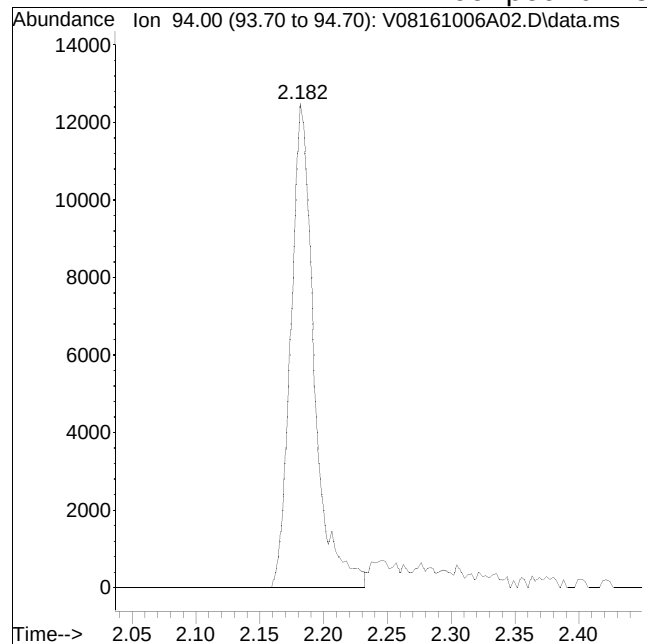
Sub List : 8260-Curve - Megamix plus Diox



Manual Integration Report

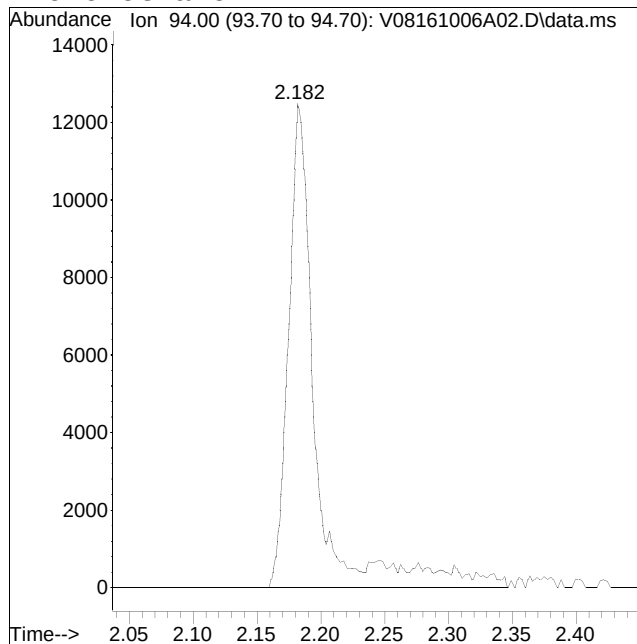
Data Path : I:\VOLATILES\VOA108\2016\1QMethod : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-9 Quant Date : 10/6/2016 9:53 am

Compound #5: Bromomethane



Original Peak Response = 15950

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

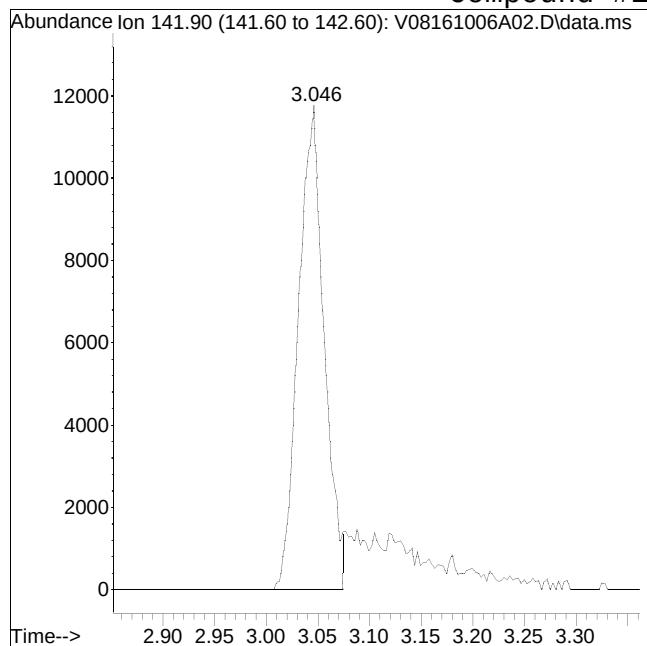


Manual Peak Response = 18889 M1

Manual Integration Report

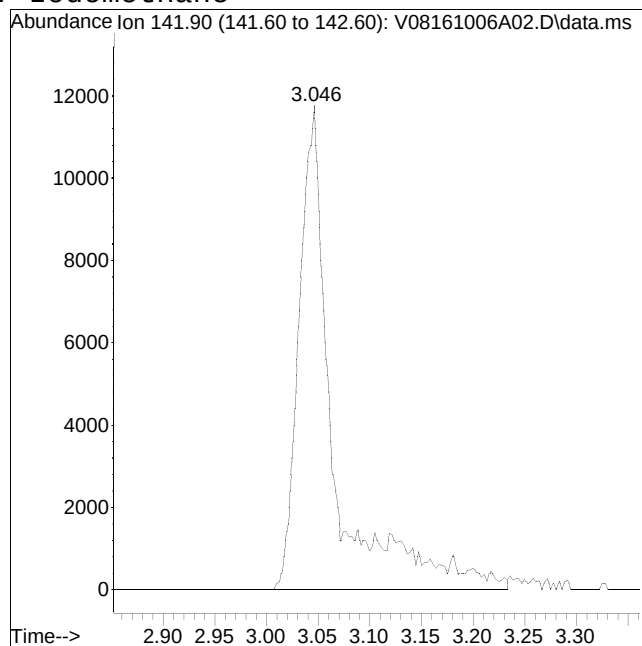
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-9 Quant Date : 10/6/2016 9:53 am

Compound #13: Iodomethane



Original Peak Response = 20315

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

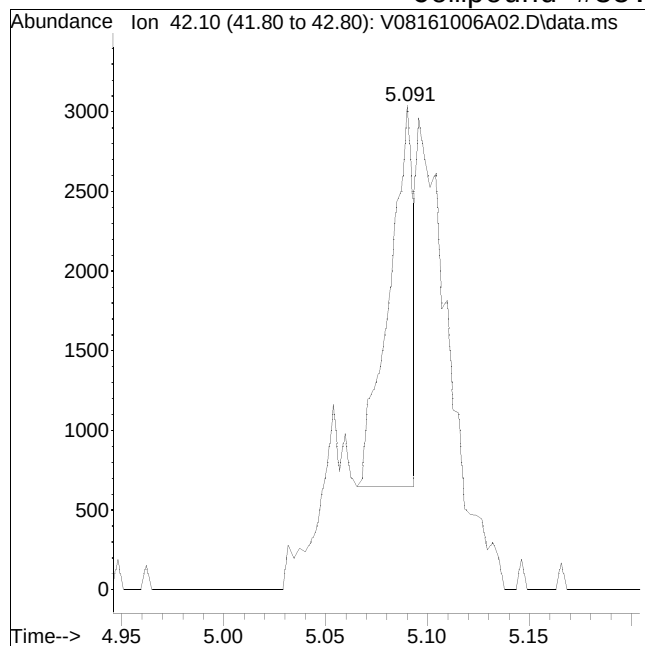


Manual Peak Response = 27612 M1

Manual Integration Report

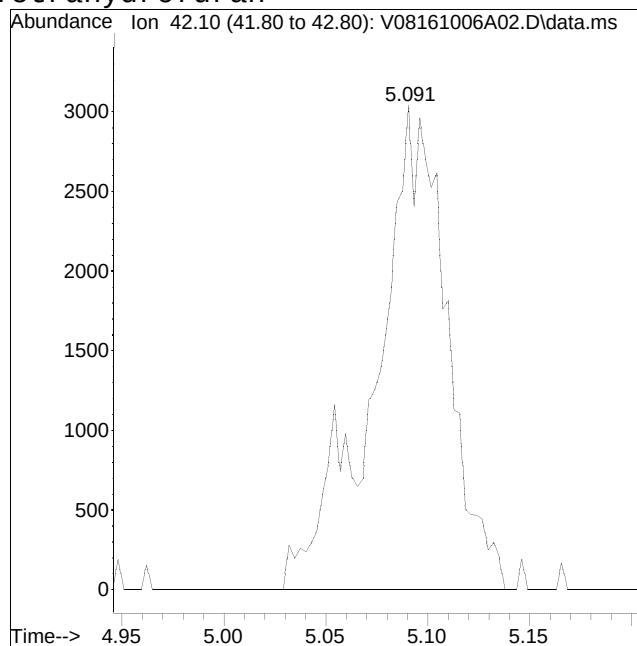
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-9 Quant Date : 10/6/2016 9:53 am

Compound #35: Tetrahydrofuran



Original Peak Response = 1990

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

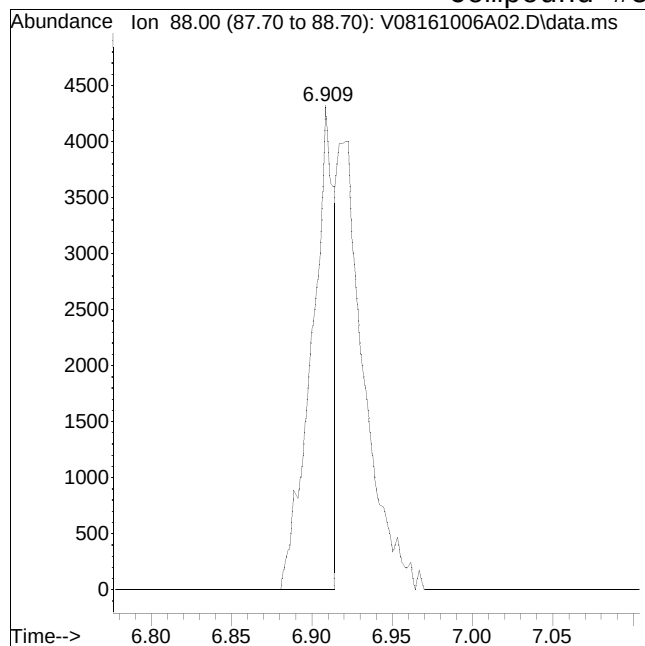


Manual Peak Response = 7521 M1

Manual Integration Report

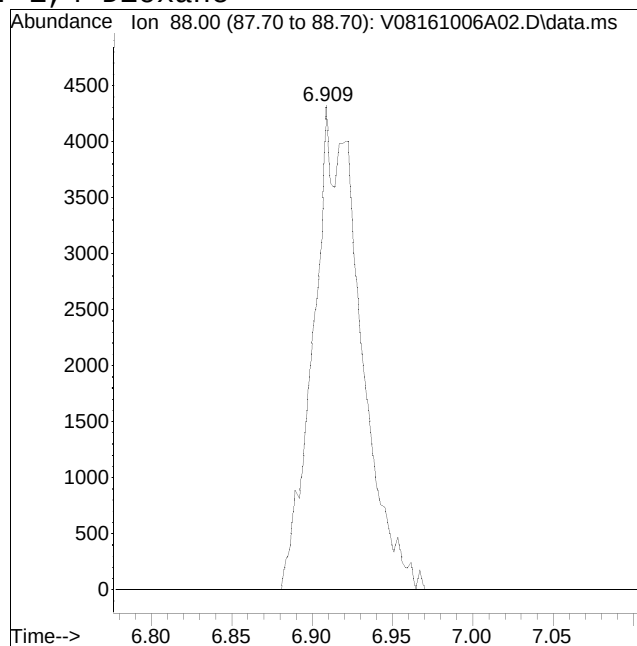
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-9 Quant Date : 10/6/2016 9:53 am

Compound #57: 1,4-Dioxane



Original Peak Response = 4160

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



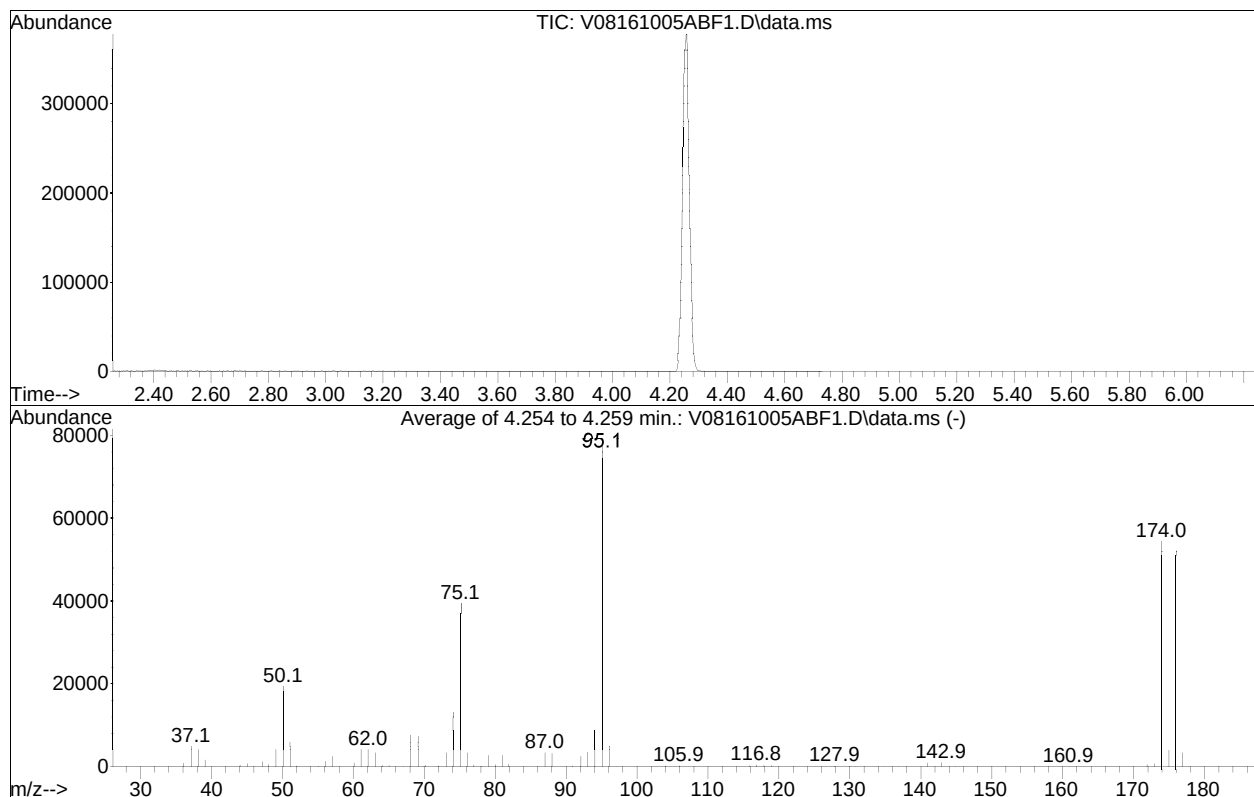
Manual Peak Response = 8790 M1

BFB

Data Path : I:\VOLATILES\VOA108\2016\161005A\
Data File : V08161005ABF1.D
Acq On : 5 Oct 2016 9:10 am
Operator : VOA108:PD
Sample : WG939161-1
Misc : WG939161
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Aug 09 13:29:40 2016



AutoFind: Scans 1064, 1065, 1066; Background Corrected with Scan 1049

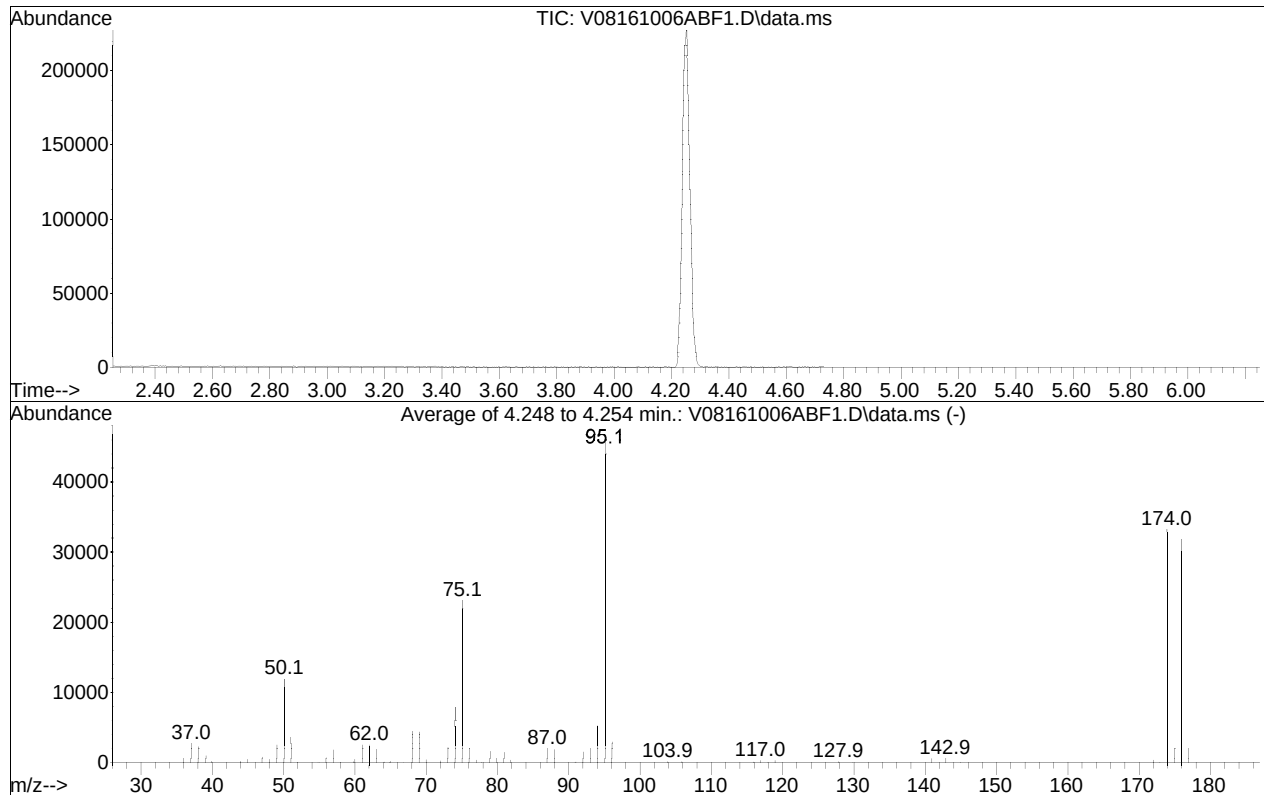
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	19419	PASS
75	95	30	60	50.7	39357	PASS
95	95	100	100	100.0	77579	PASS
96	95	5	9	6.5	5026	PASS
173	174	0.00	2	1.5	788	PASS
174	95	50	100	70.0	54296	PASS
175	174	5	9	7.1	3879	PASS
176	174	95	101	96.4	52363	PASS
177	176	5	9	6.2	3267	PASS

BFB

Data Path : I:\VOLATILES\VOA108\2016\161006A\
Data File : V08161006ABF1.D
Acq On : 6 Oct 2016 8:47 am
Operator : VOA108:PD
Sample : WG939161-8
Misc : WG939161
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Aug 09 13:29:40 2016



AutoFind: Scans 1062, 1063, 1064; Background Corrected with Scan 1047

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	11885	PASS
75	95	30	60	50.5	23104	PASS
95	95	100	100	100.0	45771	PASS
96	95	5	9	6.6	3019	PASS
173	174	0.00	2	0.3	95	PASS
174	95	50	100	72.5	33179	PASS
175	174	5	9	6.3	2091	PASS
176	174	95	101	96.0	31843	PASS
177	176	5	9	6.1	1945	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A05.D
 Acq On : 5 Oct 2016 11:20 am
 Operator : VOA108:PD
 Sample : WG939161-5,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 12:08:02 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	227641	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	88.07%		
59) Chlorobenzene-d5	9.430	117	148891	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	87.87%		
79) 1,4-Dichlorobenzene-d4	12.151	152	46169	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	63.93%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.124	113	54413	9.751	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.51%		
43) 1,2-Dichloroethane-d4	5.648	65	49770	9.366	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.66%		
60) Toluene-d8	7.592	98	204984	10.218	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.18%		
83) 4-Bromofluorobenzene	10.935	95	52693	11.681	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	116.81%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.188	94	1502	0.876	ug/L	92
6) Chloroethane	2.135	64	195	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.935	76	1478	0.097	ug/L #	73
15) Methylene chloride	3.454	84	131	Below Cal	#	74
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.683	96	51	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A05.D
 Acq On : 5 Oct 2016 11:20 am
 Operator : VOA108:PD
 Sample : WG939161-5,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 12:08:02 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.650	92	367		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.449	112	583		N.D.	
74) Ethylbenzene	9.491	91	734		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.681	106	426		N.D.	
77) o Xylene	10.224	106	364		N.D.	
78) Styrene	10.289	104	331		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.606	105	907		N.D.	
84) Bromobenzene	11.050	156	101		N.D.	
85) n-Propylbenzene	11.103	91	950		N.D.	
87) 1,1,2,2-Tetrachloroethane	11.195	83	25		N.D.	
88) 4-Ethyltoluene	11.318	105	281		N.D.	
89) 2-Chlorotoluene	11.259	91	494		N.D.	
90) 1,3,5-Trimethylbenzene	11.318	105	281		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.449	91	302		N.D.	
94) tert-Butylbenzene	11.658	119	186		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A05.D
 Acq On : 5 Oct 2016 11:20 am
 Operator : VOA108:PD
 Sample : WG939161-5,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 12:08:02 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-Curve - Megamix plus Diox

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

97)	1,2,4-Trimethylbenzene	11.744	105	521		N.D.	
98)	sec-Butylbenzene	11.858	105	488		N.D.	
99)	p-Isopropyltoluene	12.017	119	267		N.D.	
100)	1,3-Dichlorobenzene	12.070	146	194		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	d
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.592	146	170		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	d
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	0.000		0		N.D.	d
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	d
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

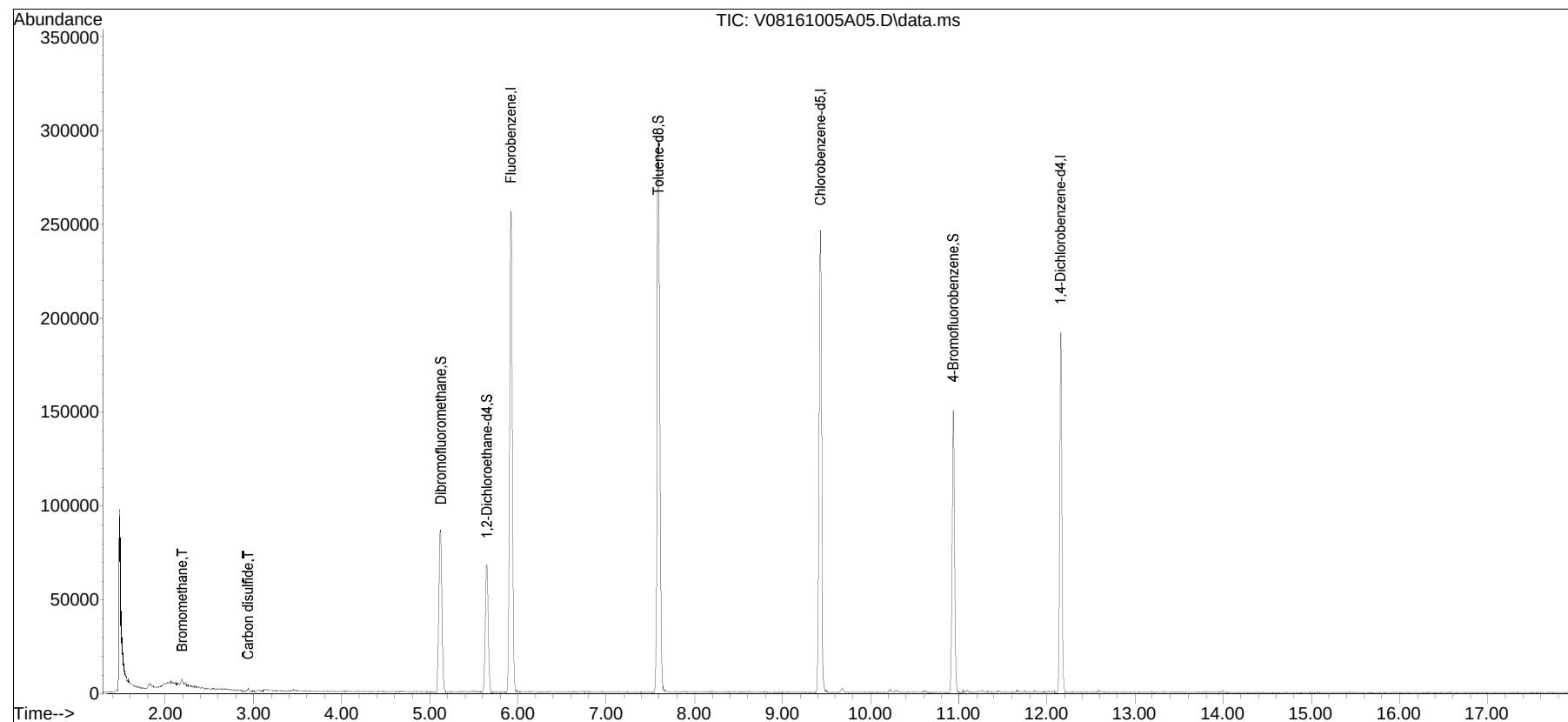
(#) = qualifier out of range (m) = manual integration (+) = signals summed

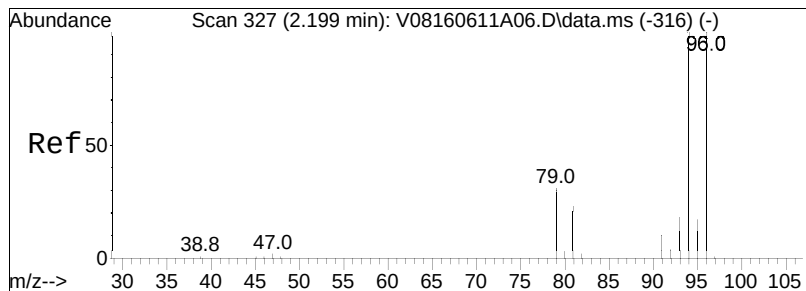
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A05.D
 Acq On : 5 Oct 2016 11:20 am
 Operator : VOA108:PD
 Sample : WG939161-5,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 12:08:02 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

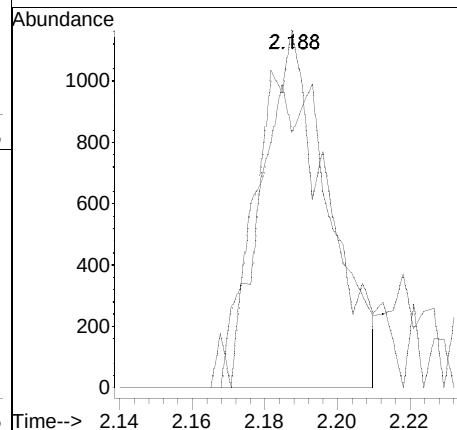
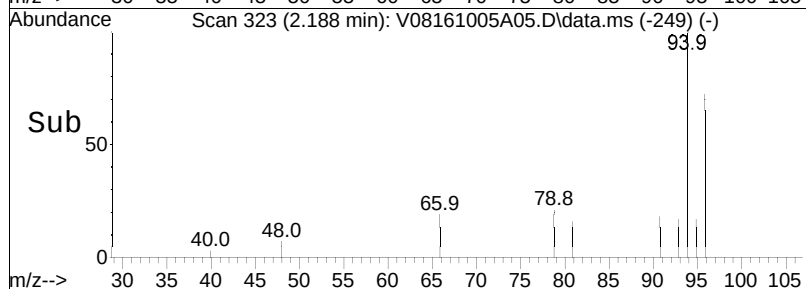
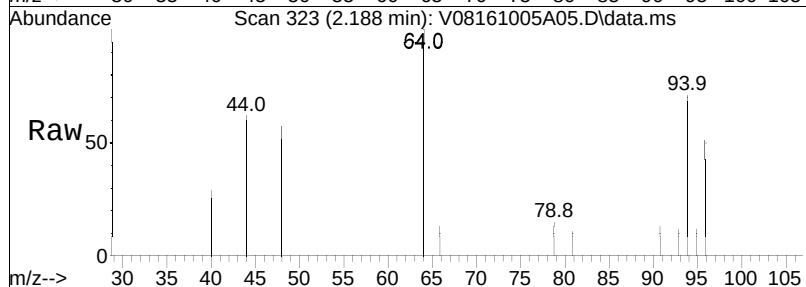
Sub List : 8260-Curve - Megamix plus Diox61005A\V08161005A02.D•

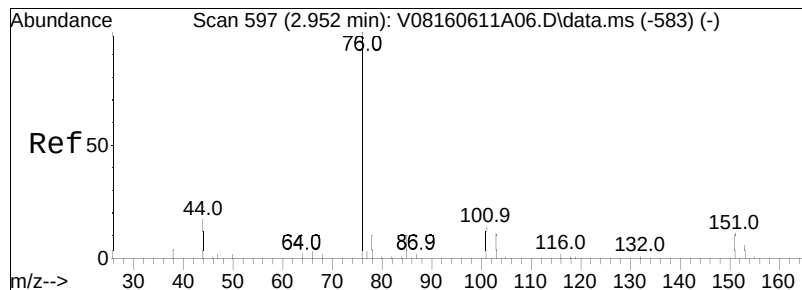




#5
 Bromomethane
 Concen: 0.88 ug/L
 RT: 2.188 min Scan# 323
 Delta R.T. 0.006 min
 Lab File: V08161005A05.D
 Acq: 5 Oct 2016 11:20 am

Tgt Ion: 94 Resp: 1502
 Ion Ratio Lower Upper
 94 100
 96 103.4 75.7 115.7





#11

Carbon disulfide

Concen: 0.10 ug/L

RT: 2.935 min Scan# 591

Delta R.T. 0.003 min

Lab File: V08161005A05.D

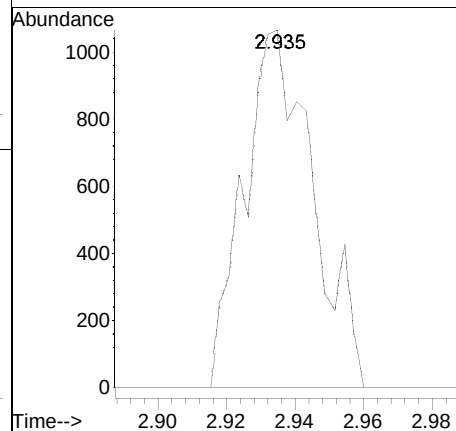
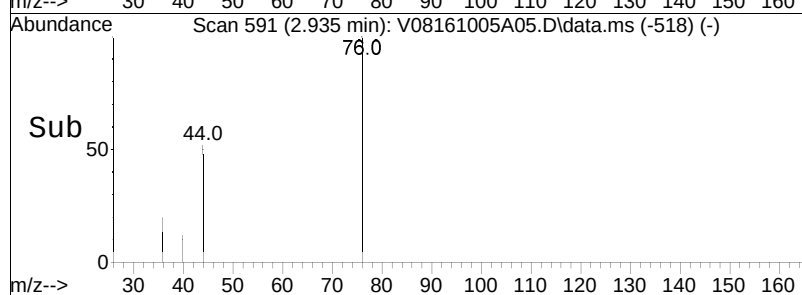
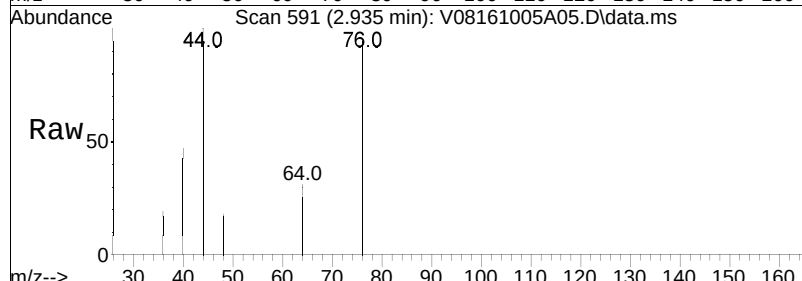
Acq: 5 Oct 2016 11:20 am

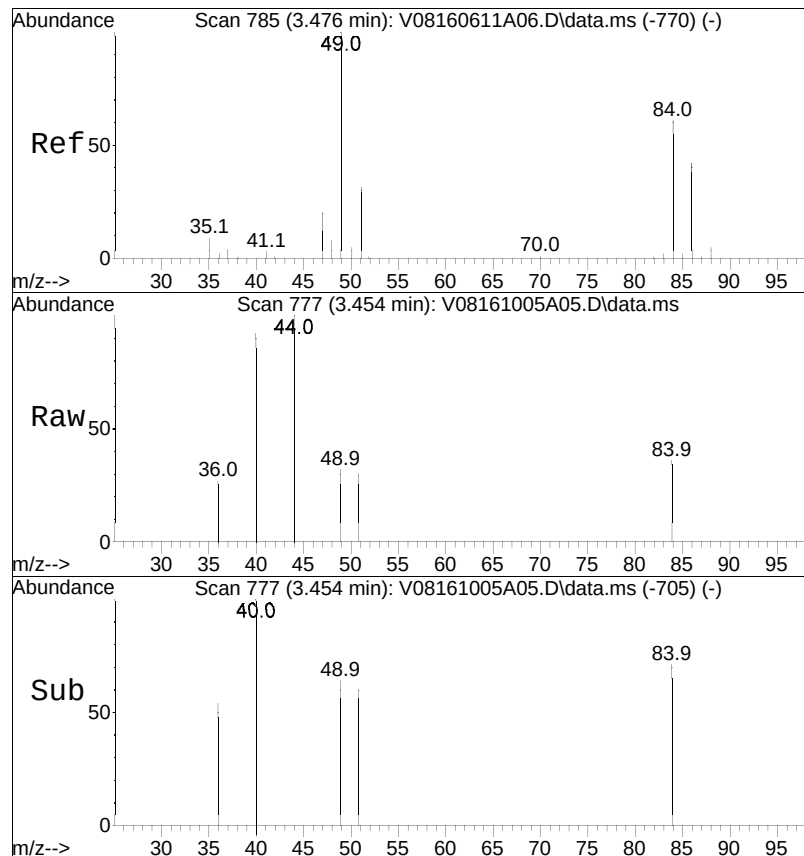
Tgt Ion: 76 Resp: 1478

Ion Ratio Lower Upper

76 100

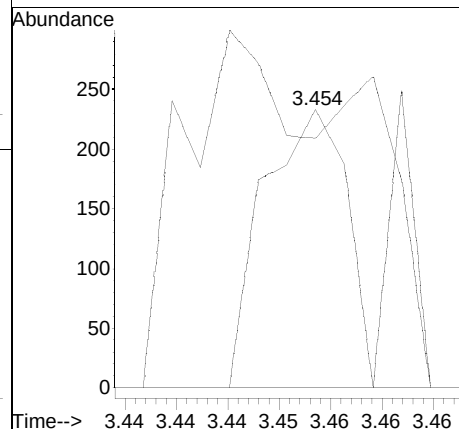
78 0.0 6.6 13.8#





#15
Methylene chloride
Concen: Below Cal
RT: 3.454 min Scan# 777
Delta R.T. -0.000 min
Lab File: V08161005A05.D
Acq: 5 Oct 2016 11:20 am

Tgt Ion:	84	Resp:	131
Ion Ratio	Lower	Upper	
84	100		
86	0.0	41.7	86.7#
49	180.9	124.3	258.1



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\10	Method	: V108_1600808_8260.m
Data File	: V08161005A05.D	Operator	: VOA108:PD
Date Inj'd	: 10/5/2016 11:20 am	Instrument	: VOA 108
Sample	: WG939161-5,31,10,10	Quant Date	: 10/5/2016 12:07 pm

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

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A05.D
 Acq On : 6 Oct 2016 10:57 am
 Operator : VOA108:PD
 Sample : WG939161-12,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 11:16:23 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	225376	10.000	ug/L	0.00
Standard Area 1 = 246373			Recovery =	91.48%		
59) Chlorobenzene-d5	9.427	117	150670	10.000	ug/L	0.00
Standard Area 1 = 160139			Recovery =	94.09%		
79) 1,4-Dichlorobenzene-d4	12.154	152	46280	10.000	ug/L	0.00
Standard Area 1 = 67154			Recovery =	68.92%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.124	113	53306	9.649	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.49%		
43) 1,2-Dichloroethane-d4	5.645	65	47502	9.029	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.29%		
60) Toluene-d8	7.595	98	201940	9.947	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.47%		
83) 4-Bromofluorobenzene	10.933	95	52802	11.677	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	116.77%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.794	50	563	N.D.		
4) Vinyl chloride	1.881	62	28	N.D.		
5) Bromomethane	2.185	94	1775	1.017	ug/L	99
6) Chloroethane	2.307	64	172	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.935	76	1569	0.104	ug/L #	78
15) Methylene chloride	3.448	84	114	Below Cal	#	83
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	3.596	96	29	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A05.D
 Acq On : 6 Oct 2016 10:57 am
 Operator : VOA108:PD
 Sample : WG939161-12,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 11:16:23 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	d
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.653	92	320		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.446	112	632		N.D.	
74) Ethylbenzene	9.494	91	177		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	9.494	106	60		N.D.	
77) o Xylene	10.216	106	278		N.D.	
78) Styrene	10.291	104	866		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	10.612	105	734		N.D.	
84) Bromobenzene	11.047	156	111		N.D.	
85) n-Propylbenzene	11.103	91	702		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.329	105	353		N.D.	
89) 2-Chlorotoluene	11.262	91	523		N.D.	
90) 1,3,5-Trimethylbenzene	11.329	105	353		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	11.451	91	241		N.D.	
94) tert-Butylbenzene	11.669	119	345		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A05.D
 Acq On : 6 Oct 2016 10:57 am
 Operator : VOA108:PD
 Sample : WG939161-12,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 11:16:23 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	11.747	105	437		N.D.	
98)	sec-Butylbenzene	11.858	105	684		N.D.	
99)	p-Isopropyltoluene	12.012	119	405		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	d
101)	1,4-Dichlorobenzene	12.160	146	186		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	d
103)	n-Butylbenzene	0.000		0		N.D.	d
104)	1,2-Dichlorobenzene	12.597	146	334		N.D.	
105)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	d
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
108)	Hexachlorobutadiene	13.989	225	31		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
110)	Naphthalene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

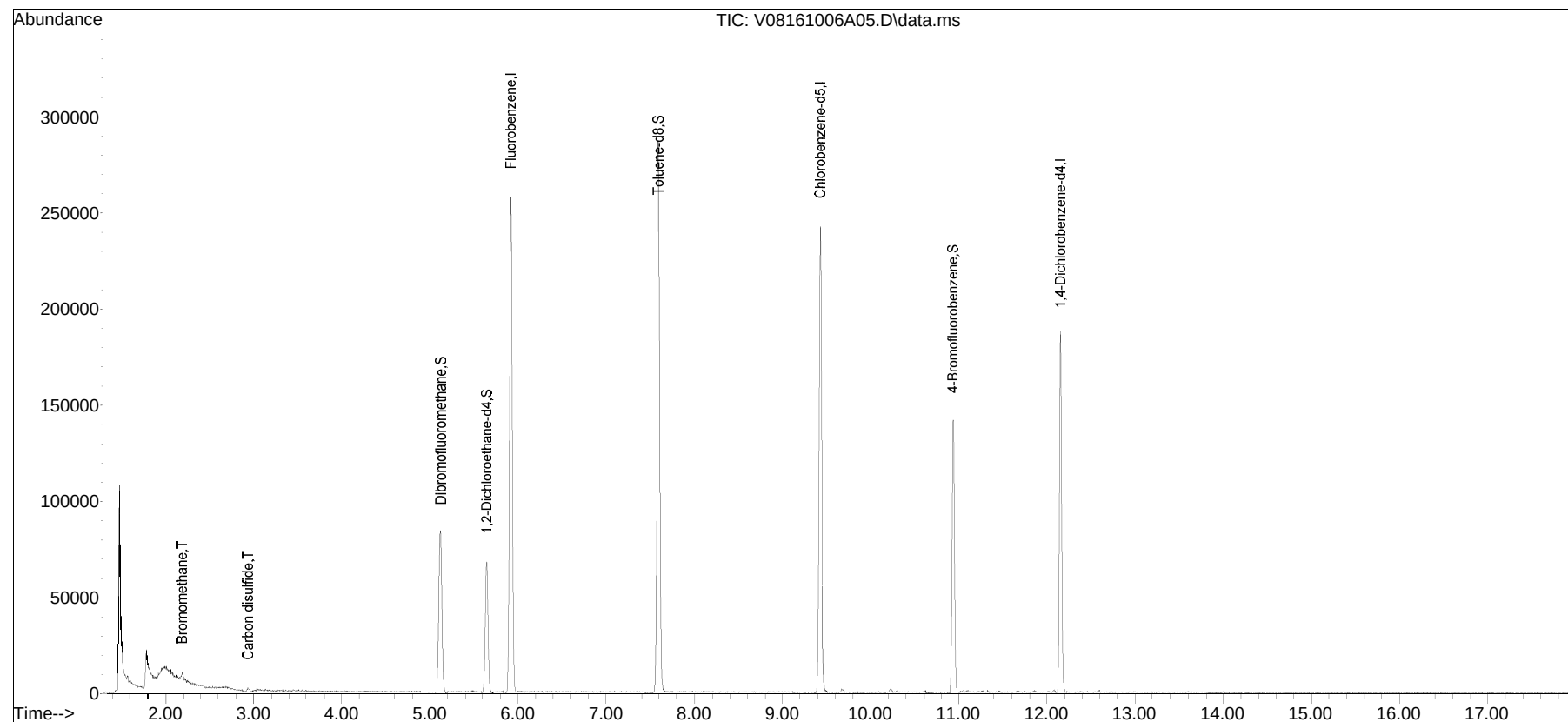
(#) = qualifier out of range (m) = manual integration (+) = signals summed

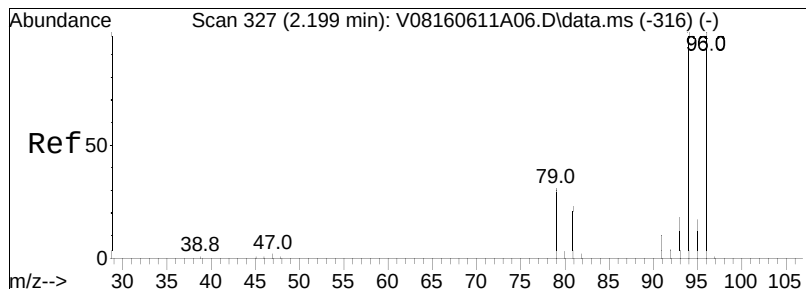
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A05.D
 Acq On : 6 Oct 2016 10:57 am
 Operator : VOA108:PD
 Sample : WG939161-12,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 11:16:23 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

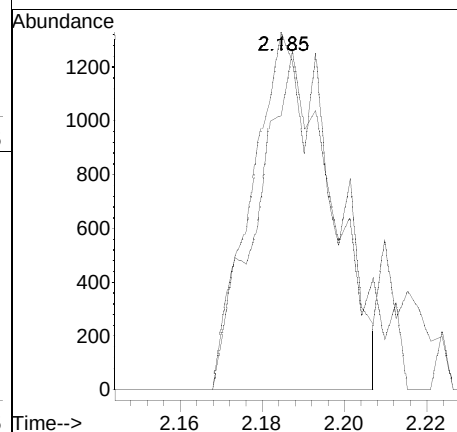
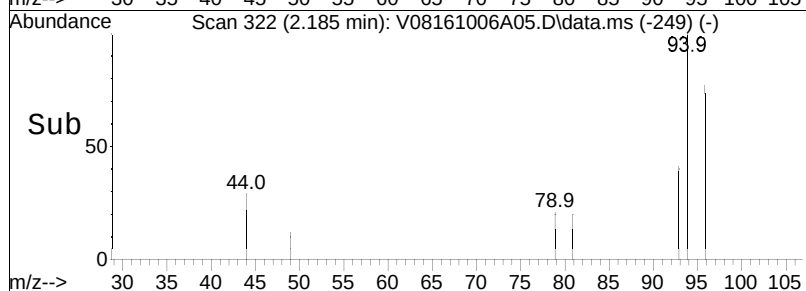
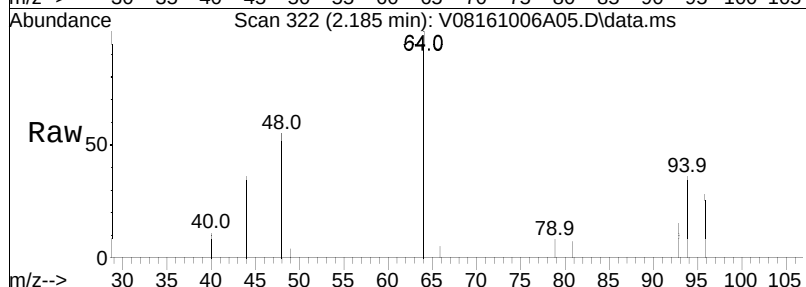
Sub List : 8260-Curve - Megamix plus Diox61006A\V08161006A02.D•

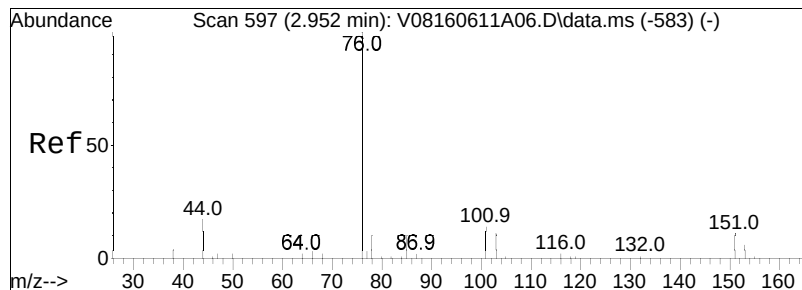




#5
 Bromomethane
 Concen: 1.02 ug/L
 RT: 2.185 min Scan# 322
 Delta R.T. 0.003 min
 Lab File: V08161006A05.D
 Acq: 6 Oct 2016 10:57 am

Tgt Ion: 94 Resp: 1775
 Ion Ratio Lower Upper
 94 100
 96 97.1 75.7 115.7





#11

Carbon disulfide

Concen: 0.10 ug/L

RT: 2.935 min Scan# 591

Delta R.T. 0.003 min

Lab File: V08161006A05.D

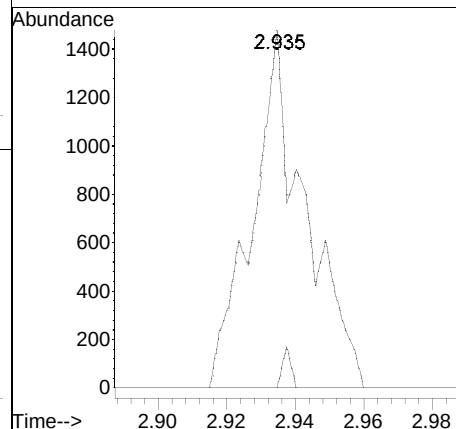
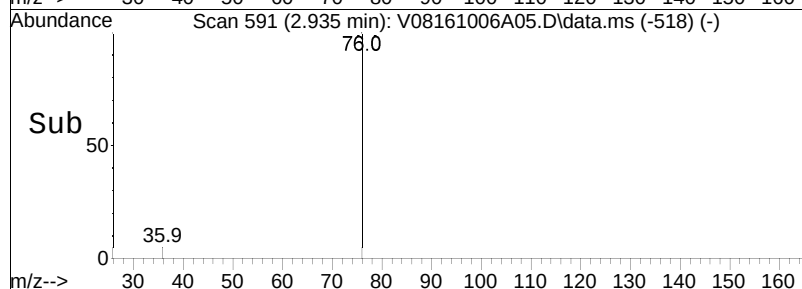
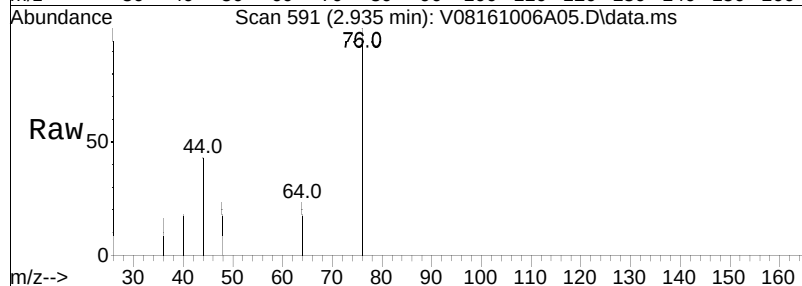
Acq: 6 Oct 2016 10:57 am

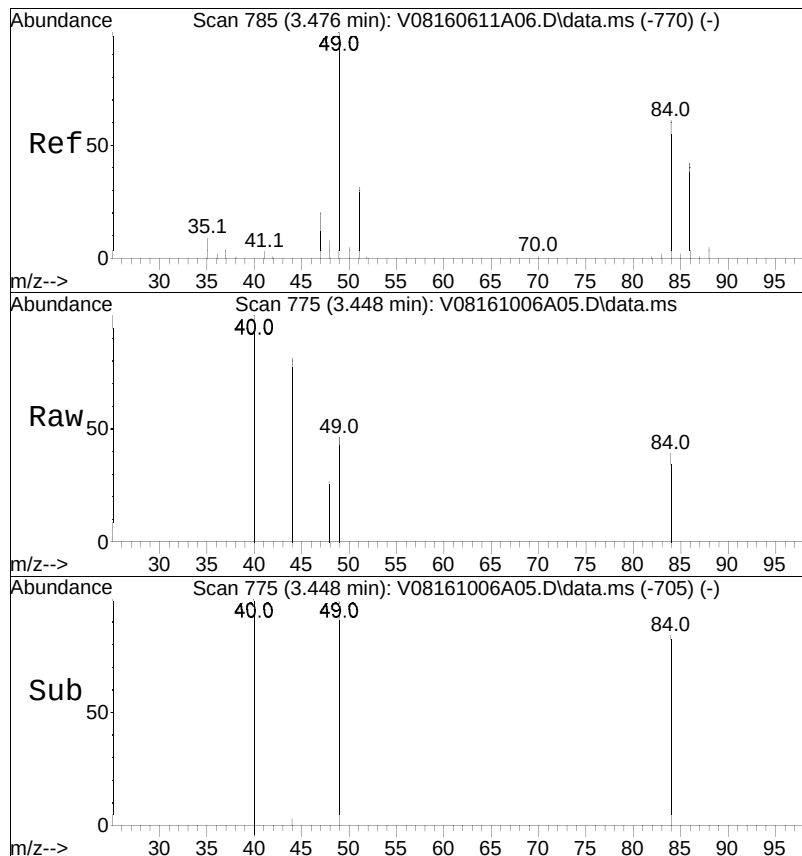
Tgt Ion: 76 Resp: 1569

Ion Ratio Lower Upper

76 100

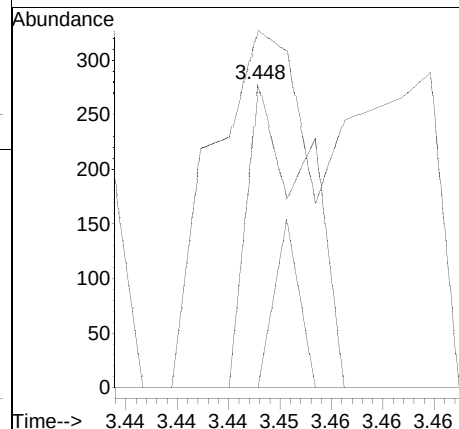
78 1.8 6.6 13.8#





#15
Methylene chloride
Concen: Below Cal
RT: 3.448 min Scan# 775
Delta R.T. -0.006 min
Lab File: V08161006A05.D
Acq: 6 Oct 2016 10:57 am

Tgt Ion:	84	Resp:	114
Ion Ratio	Lower	Upper	
84	100		
86	22.8	41.7	86.7#
49	183.3	124.3	258.1



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\10	Method	: V108_1600808_8260.m
Data File	: V08161006A05.D	Operator	: VOA108:PD
Date Inj'd	: 10/6/2016 10:57 am	Instrument	: VOA 108
Sample	: WG939161-12,31,10,10	Quant Date	: 10/6/2016 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-3,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.921	96	258468	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.424	117	169443	10.000	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	12.148	152	72223	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.116	113	58517	9.236	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.36%		
43) 1,2-Dichloroethane-d4	5.643	65	53059	8.794	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.94%		
60) Toluene-d8	7.592	98	233794	10.240	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.40%		
83) 4-Bromofluorobenzene	10.935	95	72674	10.299	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.99%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.621	85	65930	10.358	ug/L	100
3) Chloromethane	1.797	50	97416	10.453	ug/L	99
4) Vinyl chloride	1.878	62	83969	9.600	ug/L	100
5) Bromomethane	2.185	94	14790M1	6.376	ug/L	
6) Chloroethane	2.305	64	47516	9.957	ug/L	96
7) Trichlorofluoromethane	2.436	101	98000	10.626	ug/L	99
8) Ethyl ether	2.726	74	17124	8.539	ug/L	94
10) 1,1-Dichloroethene	2.910	96	51649	10.093	ug/L	96
11) Carbon disulfide	2.935	76	174074	10.051	ug/L	100
12) Freon-113	2.946	101	48486	9.527	ug/L	75
13) Iodomethane	3.046	142	37545M1	8.393	ug/L	
14) Acrolein	3.228	56	3190	7.184	ug/L #	79
15) Methylene chloride	3.451	84	54958	10.074	ug/L	94
17) Acetone	3.504	43	8742	10.158	ug/L	95
18) trans-1,2-Dichloroethene	3.599	96	67341	10.799	ug/L	94
19) Methyl acetate	3.615	43	18803	10.075	ug/L #	84
20) Methyl tert-butyl ether	3.696	73	76268	9.536	ug/L #	90
21) tert-Butyl alcohol	3.794	59	7665	50.669	ug/L #	79
22) Diisopropyl ether	4.045	45	208568	9.796	ug/L	94
23) 1,1-Dichloroethane	4.176	63	134741	10.240	ug/L	98
24) Halothane	4.226	117	47186	10.859	ug/L #	60
25) Acrylonitrile	4.237	53	9719	9.085	ug/L #	84
26) Ethyl tert-butyl ether	4.388	59	135990	9.148	ug/L	91
27) Vinyl acetate	4.410	43	78607	9.821	ug/L #	94
28) cis-1,2-Dichloroethene	4.681	96	63384	10.084	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-3,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29)	2,2-Dichloropropane	4.784	77	84606	10.821	ug/L	99
30)	Bromochloromethane	4.873	128	21773	9.398	ug/L	90
31)	Cyclohexane	4.865	56	141977	9.861	ug/L	91
32)	Chloroform	4.940	83	111307	10.571	ug/L	98
33)	Ethyl acetate	5.057	43	22838	8.933	ug/L #	96
34)	Carbon tetrachloride	5.065	117	95471	10.349	ug/L	99
35)	Tetrahydrofuran	5.090	42	8279M1	8.889	ug/L	
37)	1,1,1-Trichloroethane	5.141	97	108880	10.833	ug/L #	97
39)	2-Butanone	5.241	43	10356	10.134	ug/L #	76
40)	1,1-Dichloropropene	5.258	75	86049	10.172	ug/L	99
41)	Benzene	5.500	78	253037	10.228	ug/L	99
42)	tert-Amyl methyl ether	5.609	73	79949	8.825	ug/L	95
44)	1,2-Dichloroethane	5.710	62	58962	9.259	ug/L	98
47)	Methyl cyclohexane	6.069	83	90859	9.125	ug/L	98
48)	Trichloroethene	6.089	95	70790	10.626	ug/L	98
50)	Dibromomethane	6.529	93	20727	9.562	ug/L	99
51)	1,2-Dichloropropane	6.630	63	59517	9.368	ug/L	97
53)	2-Chloroethyl vinyl ether	7.330	63	5827	No Calib	#	
54)	Bromodichloromethane	6.702	83	66171	9.841	ug/L #	98
57)	1,4-Dioxane	6.914	88	9804	477.272	ug/L #	91
58)	cis-1,3-Dichloropropene	7.388	75	61723	8.507	ug/L	96
61)	Toluene	7.648	92	161135	11.067	ug/L	100
62)	4-Methyl-2-pentanone	8.099	58	6501M1	7.433	ug/L	
63)	Tetrachloroethene	8.080	166	63088	10.363	ug/L	98
65)	trans-1,3-Dichloropropene	8.136	75	45684	9.355	ug/L	99
67)	Ethyl methacrylate	8.328	69	23647	7.235	ug/L	87
68)	1,1,2-Trichloroethane	8.322	83	23418	10.155	ug/L	100
69)	Chlorodibromomethane	8.523	129	35026	9.833	ug/L	99
70)	1,3-Dichloropropane	8.640	76	47768	9.591	ug/L	100
71)	1,2-Dibromoethane	8.802	107	23991	9.525	ug/L	98
72)	2-Hexanone	9.103	43	9736M1	7.154	ug/L	
73)	Chlorobenzene	9.446	112	150289	9.947	ug/L	99
74)	Ethylbenzene	9.485	91	292909	10.831	ug/L	98
75)	1,1,1,2-Tetrachloroethane	9.533	131	46856	9.599	ug/L	97
76)	p/m Xylene	9.669	106	227088	21.280	ug/L	97
77)	o Xylene	10.216	106	200623	20.901	ug/L	97
78)	Styrene	10.288	104	315418	21.096	ug/L	97
80)	Bromoform	10.305	173	15715	10.221	ug/L	99
82)	Isopropylbenzene	10.604	105	282149	11.224	ug/L	98
84)	Bromobenzene	11.044	156	47343	10.037	ug/L	99
85)	n-Propylbenzene	11.092	91	327652	11.462	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A02.D
 Acq On : 5 Oct 2016 9:56 am
 Operator : VOA108:PD
 Sample : WG939161-3,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

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

86)	1,4-Dichlorobutane	11.114	55	58744	10.606	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.184	83	26264	10.559	ug/L	96
88)	4-Ethyltoluene	11.220	105	271224	11.442	ug/L	98
89)	2-Chlorotoluene	11.256	91	200547	11.700	ug/L	99
90)	1,3,5-Trimethylbenzene	11.320	105	215876	11.169	ug/L #	77
91)	1,2,3-Trichloropropane	11.326	75	20272	9.951	ug/L	97
92)	trans-1,4-Dichloro-2-b...	11.384	53	8284	10.257	ug/L #	88
93)	4-Chlorotoluene	11.443	91	185418	11.380	ug/L #	100
94)	tert-Butylbenzene	11.660	119	174601	9.326	ug/L	90
97)	1,2,4-Trimethylbenzene	11.741	105	191649	10.893	ug/L	99
98)	sec-Butylbenzene	11.850	105	254388	10.613	ug/L	99
99)	p-Isopropyltoluene	12.009	119	188827	10.392	ug/L	98
100)	1,3-Dichlorobenzene	12.070	146	98896	10.063	ug/L	99
101)	1,4-Dichlorobenzene	12.165	146	90369	9.526	ug/L	97
102)	p-Diethylbenzene	12.386	119	101357	9.030	ug/L	97
103)	n-Butylbenzene	12.441	91	148999	9.491	ug/L	100
104)	1,2-Dichlorobenzene	12.592	146	74943	9.741	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.186	119	114528	8.770	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.381	155	2086	7.913	ug/L	87
107)	1,3,5-Trichlorobenzene	13.406	180	44824	9.938	ug/L	98
108)	Hexachlorobutadiene	13.986	225	19166	11.072	ug/L	97
109)	1,2,4-Trichlorobenzene	14.008	180	20460	6.593	ug/L #	94
110)	Naphthalene	14.315	128	22404	5.687	ug/L	100
111)	1,2,3-Trichlorobenzene	14.483	180	15499	7.131	ug/L	95

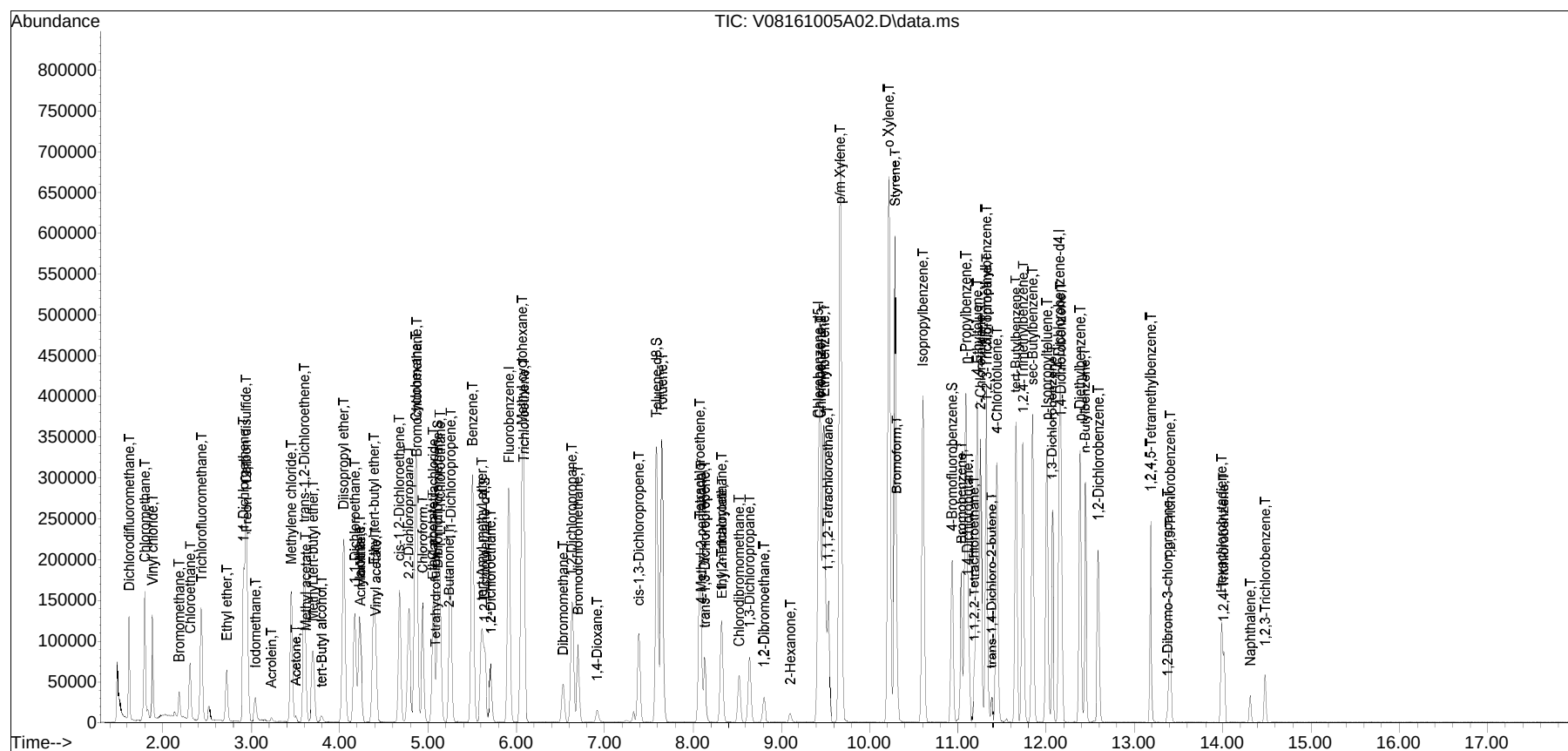
(#) = qualifier out of range (m) = manual integration (+) = signals summed

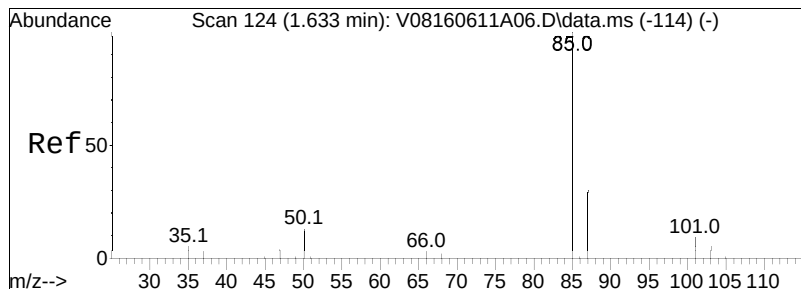
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
Data File : V08161005A02.D
Acq On : 5 Oct 2016 9:56 am
Operator : VOA108:PD
Sample : WG939161-3,31,10,10
Misc : WG939161,ICAL12737
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 05 10:15:46 2016
Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Aug 09 13:29:40 2016
Response via : Initial Calibration

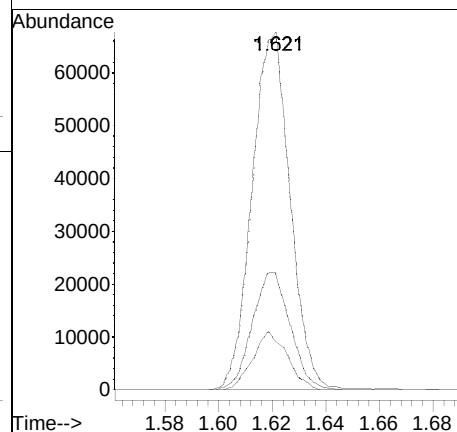
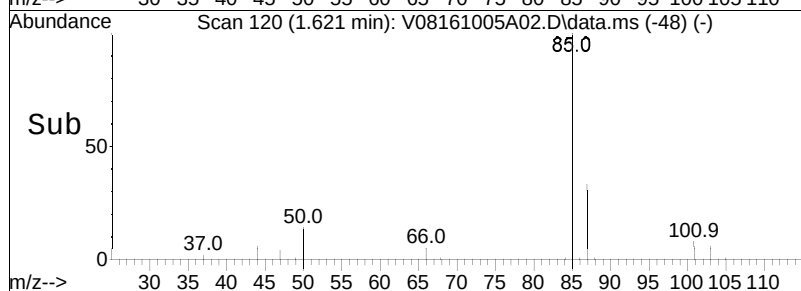
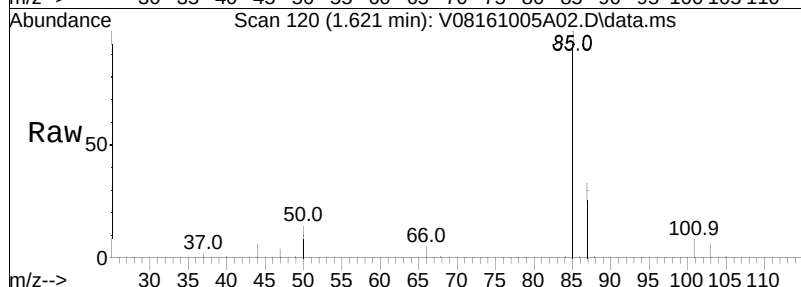
Sub List : 8260-Curve - Megamix plus Diox

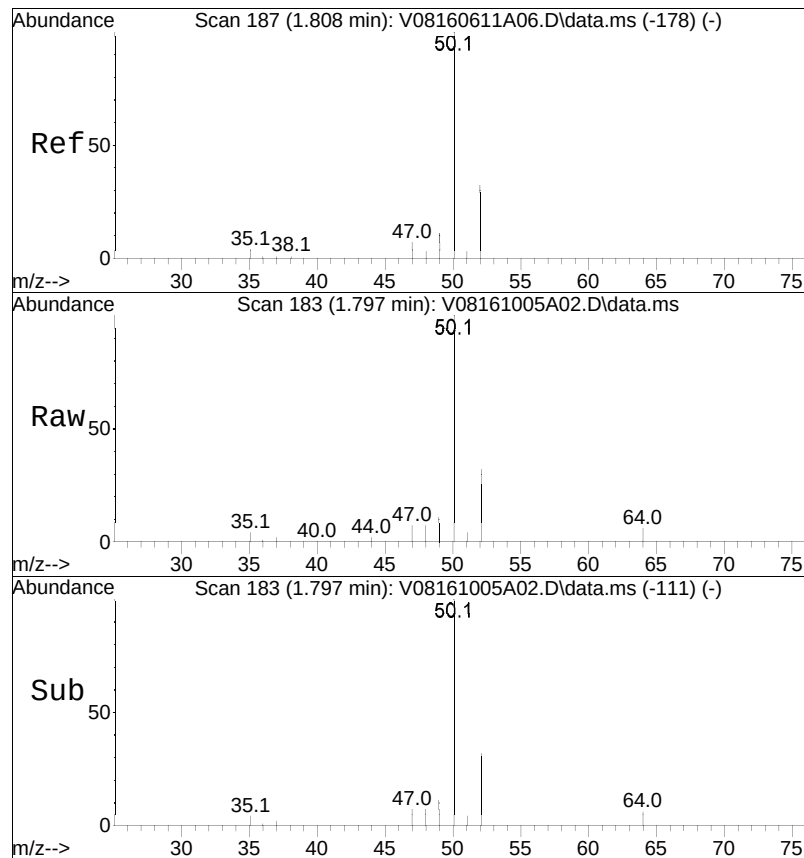




#2
 Dichlorodifluoromethane
 Concen: 10.36 ug/L
 RT: 1.621 min Scan# 120
 Delta R.T. 0.000 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

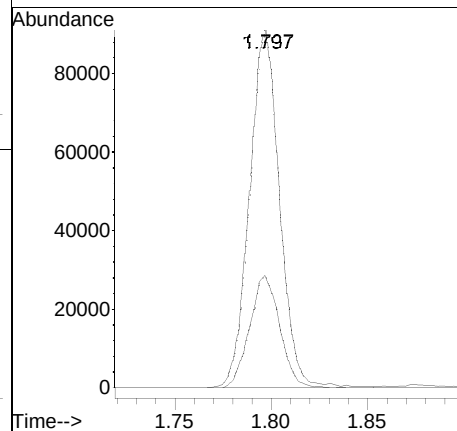
Tgt Ion:	85	Resp:	65930
Ion Ratio	Lower	Upper	
85	100		
87	32.9	21.4	44.4
50	14.9	10.0	20.8

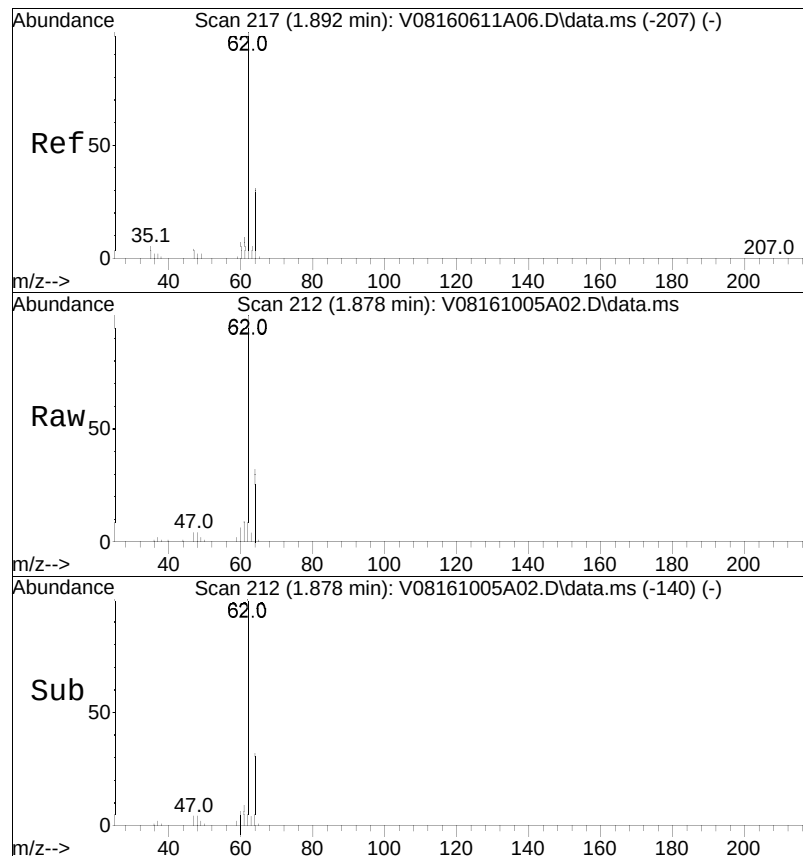




#3
 Chloromethane
 Concen: 10.45 ug/L
 RT: 1.797 min Scan# 183
 Delta R.T. 0.000 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

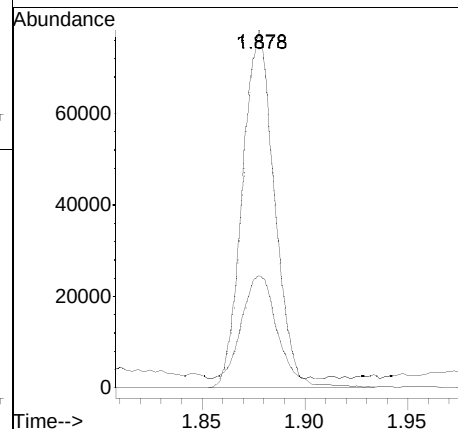
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.4	11.8	51.8

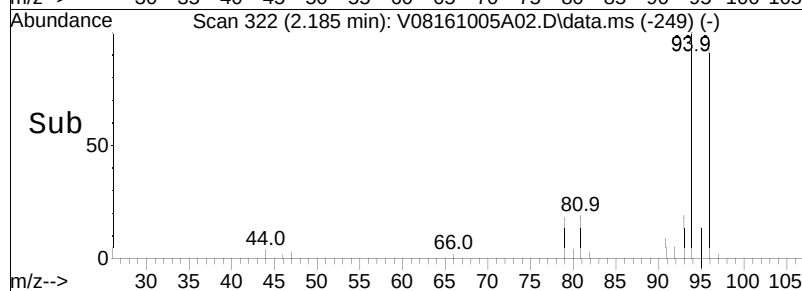
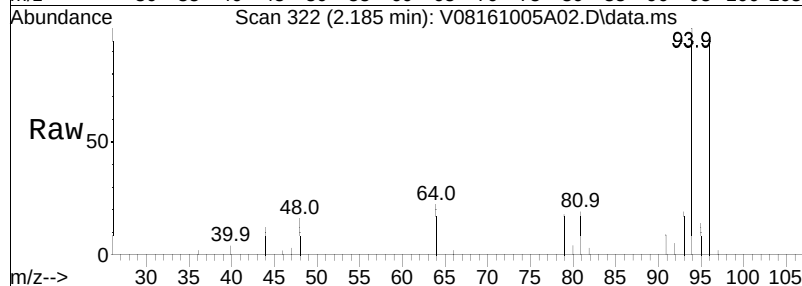
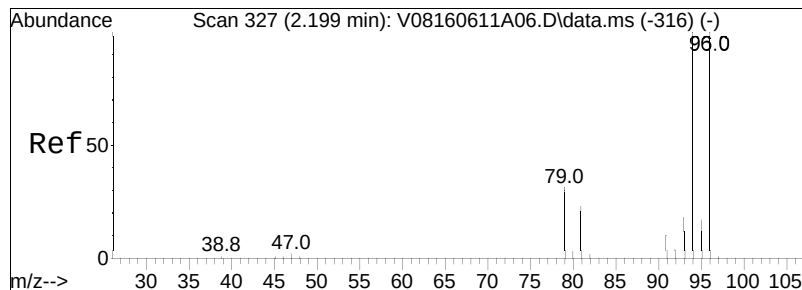




#4
 Vinyl chloride
 Concen: 9.60 ug/L
 RT: 1.878 min Scan# 212
 Delta R.T. -0.000 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

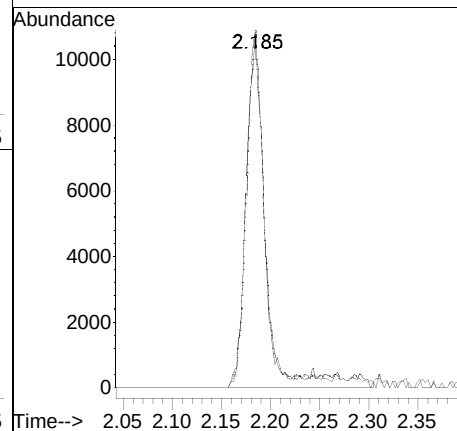
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.6	9.7	49.7

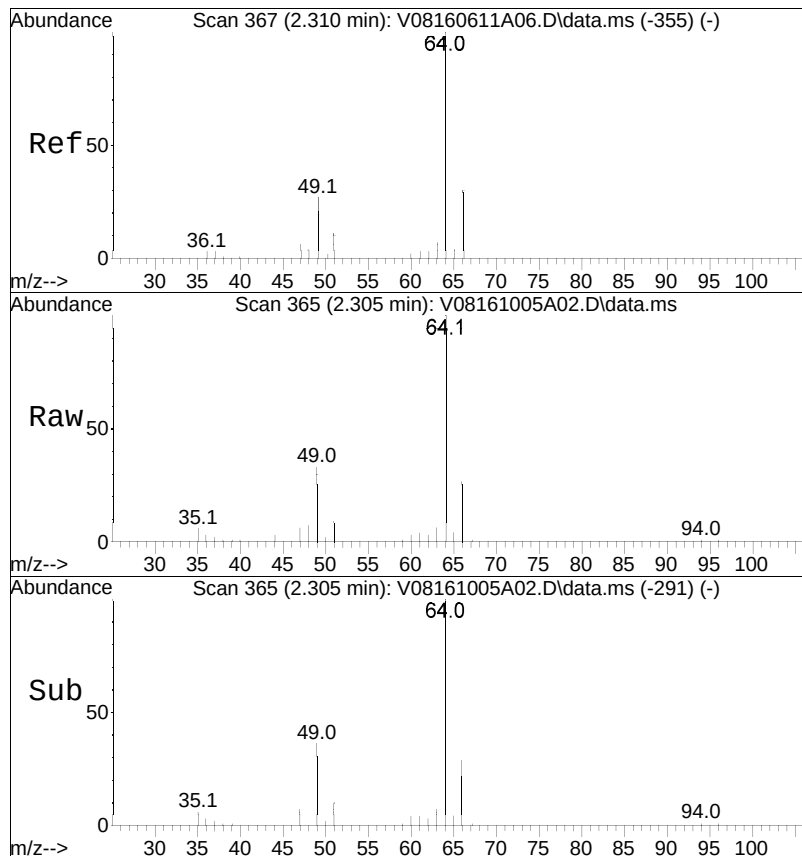




#5
 Bromomethane
 Concen: 6.38 ug/L M1
 RT: 2.185 min Scan# 322
 Delta R.T. 0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

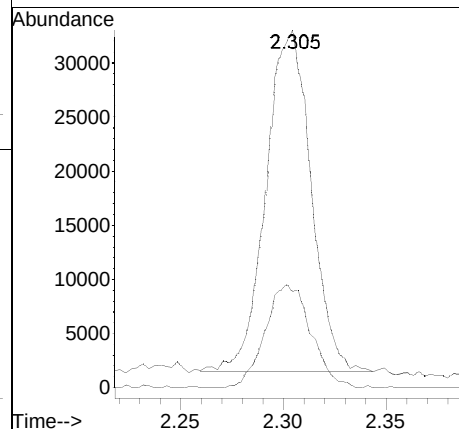
Tgt Ion: 94 Resp: 14790
 Ion Ratio Lower Upper
 94 100
 96 87.2 75.7 115.7

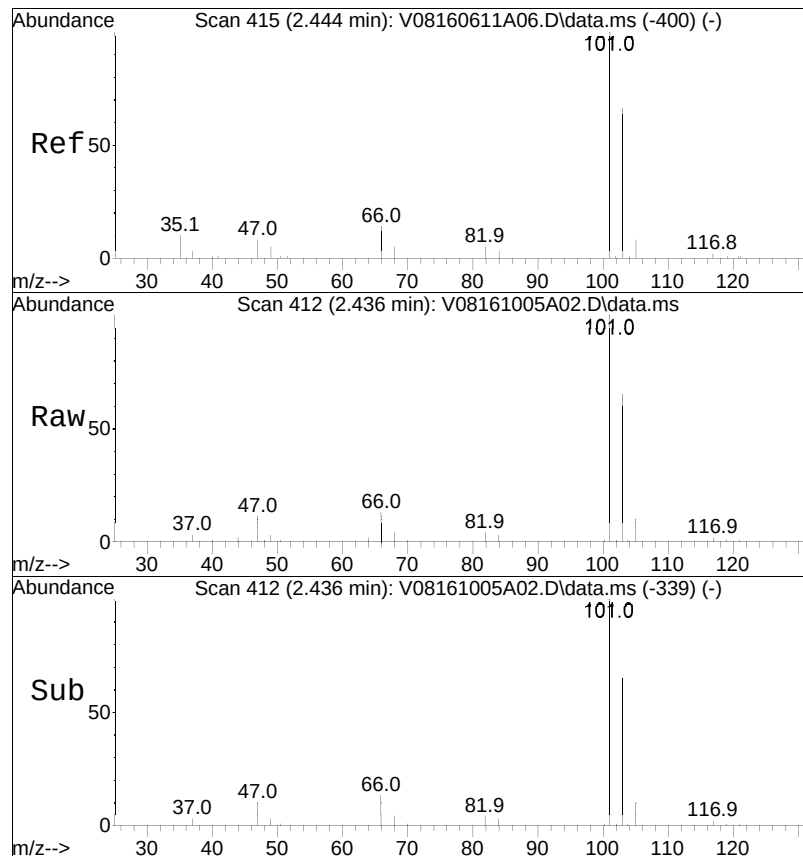




#6
 Chloroethane
 Concen: 9.96 ug/L
 RT: 2.305 min Scan# 365
 Delta R.T. 0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

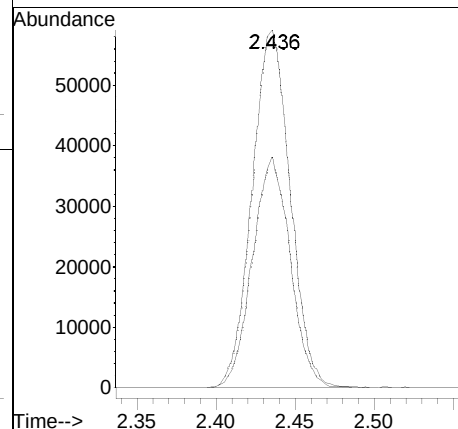
Tgt Ion:	64	Resp:	47516
Ion Ratio	Lower	Upper	
64	100		
66	31.0	9.1	49.1

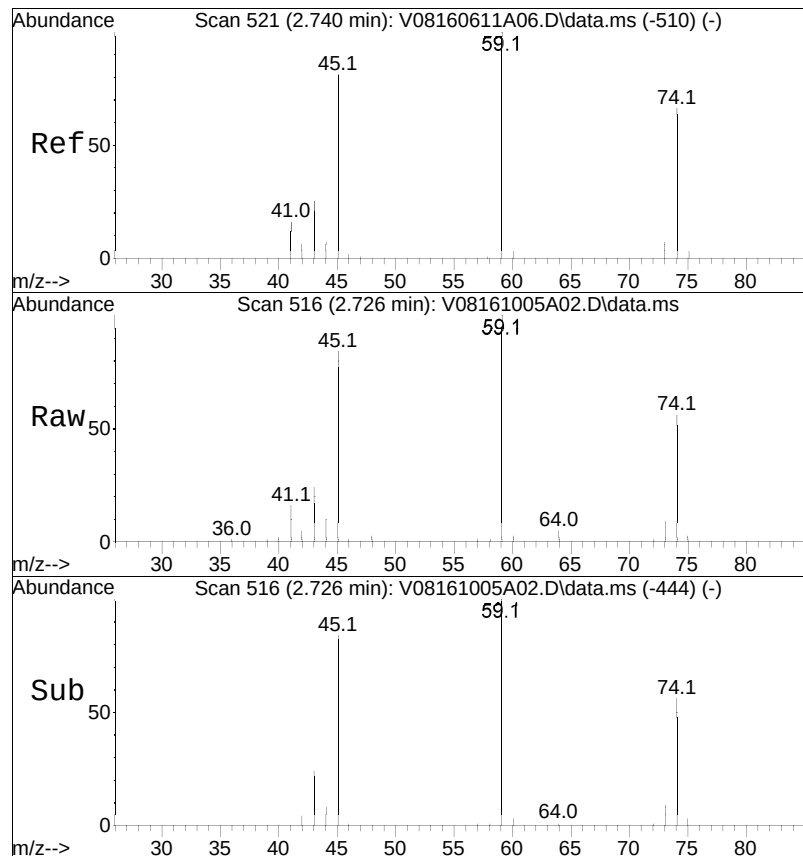




#7
 Trichlorofluoromethane
 Concen: 10.63 ug/L
 RT: 2.436 min Scan# 412
 Delta R.T. 0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

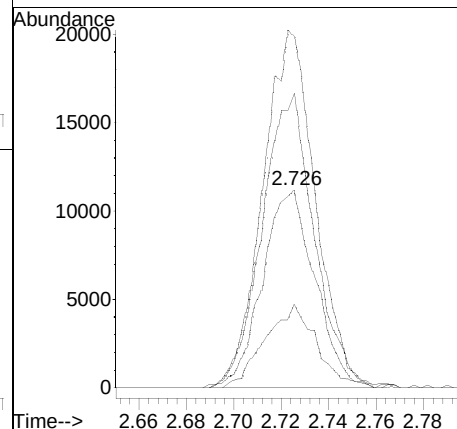
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.7	77.5

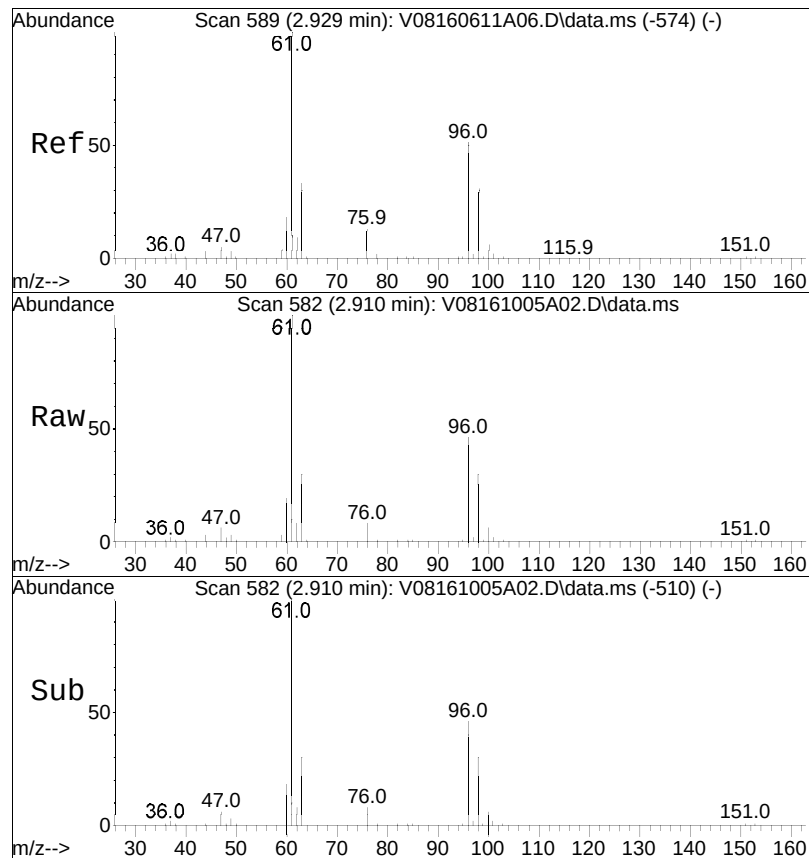




#8
 Ethyl ether
 Concen: 8.54 ug/L
 RT: 2.726 min Scan# 516
 Delta R.T. -0.000 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

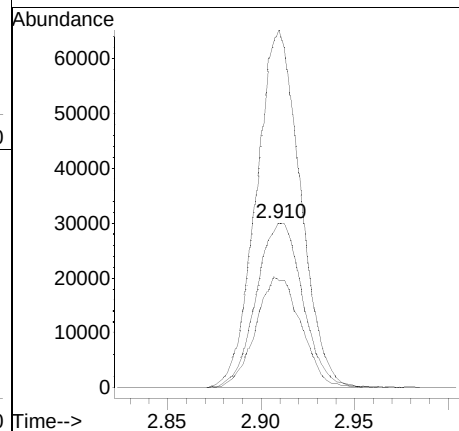
Tgt Ion:	74	Resp:	17124
Ion	Ratio	Lower	Upper
74	100		
59	179.9	126.0	261.8
45	148.3	99.2	206.0
43	41.3	26.7	55.4

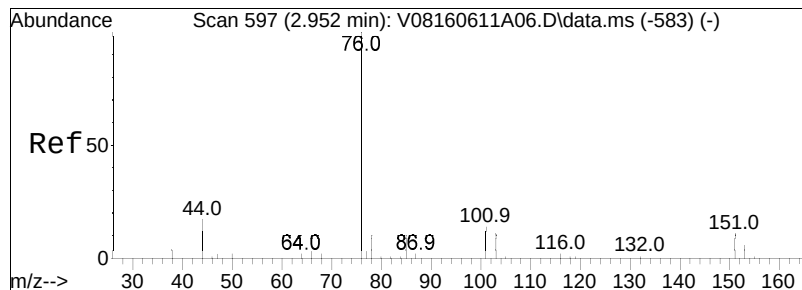




#10
 1,1-Dichloroethene
 Concen: 10.09 ug/L
 RT: 2.910 min Scan# 582
 Delta R.T. -0.000 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

Tgt Ion:	96	Resp:	51649
Ion	Ratio	Lower	Upper
96	100		
61	205.9	171.2	256.8
63	66.1	52.6	78.8





#11

Carbon disulfide

Concen: 10.05 ug/L

RT: 2.935 min Scan# 591

Delta R.T. 0.003 min

Lab File: V08161005A02.D

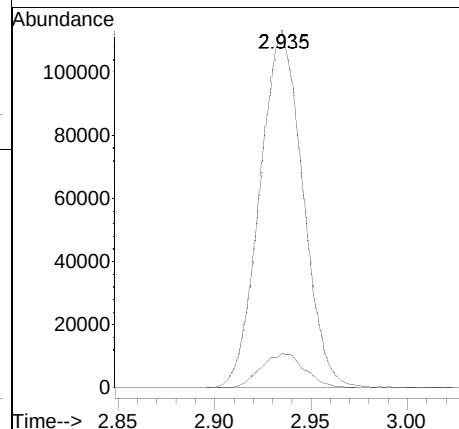
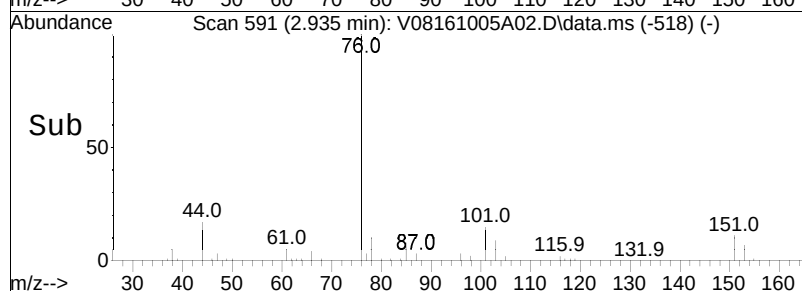
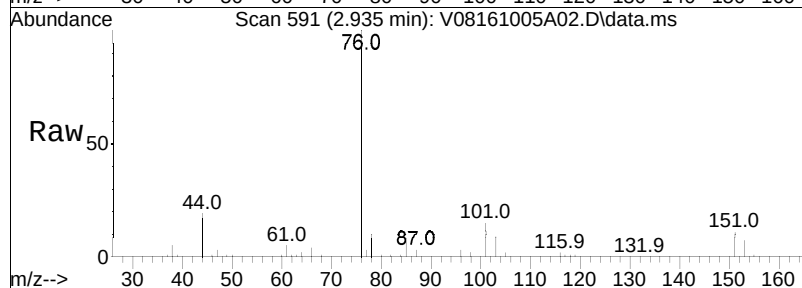
Acq: 5 Oct 2016 9:56 am

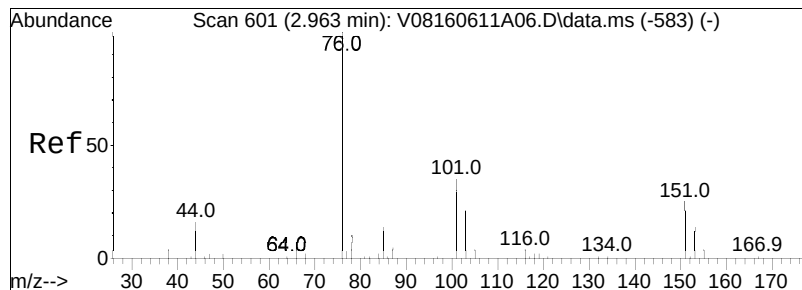
Tgt Ion: 76 Resp: 174074

Ion Ratio Lower Upper

76 100

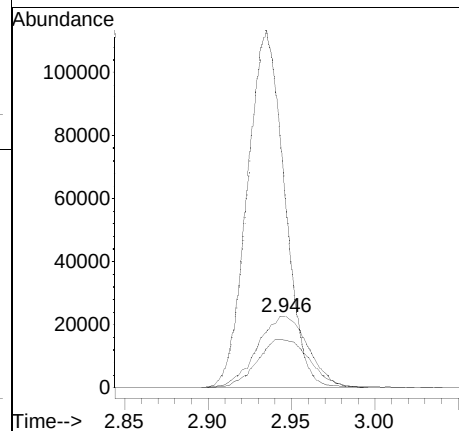
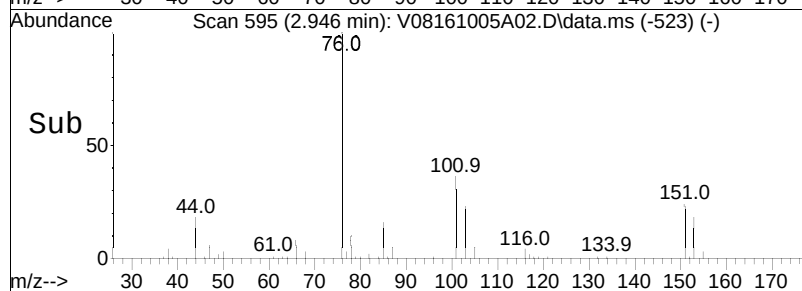
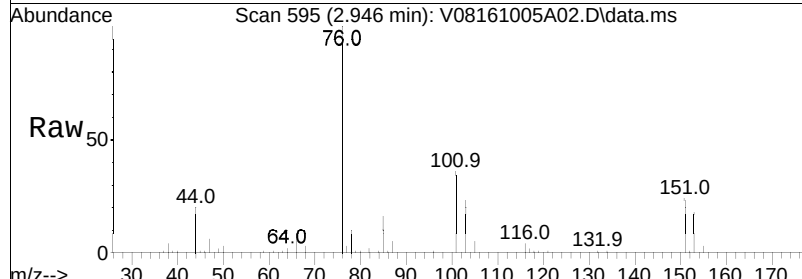
78 10.1 6.6 13.8

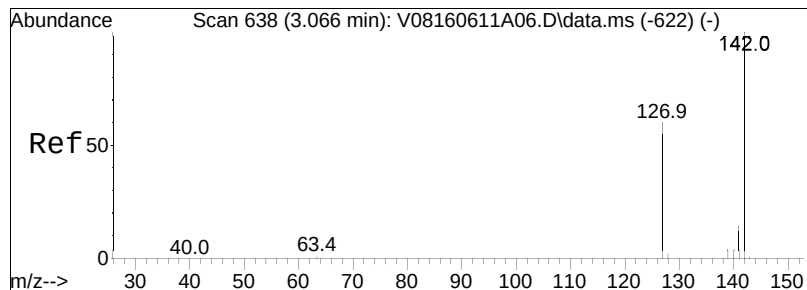




#12
 Freon-113
 Concen: 9.53 ug/L
 RT: 2.946 min Scan# 595
 Delta R.T. -0.000 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

Tgt Ion	Ratio	Lower	Upper
101	100		
151	69.7	60.4	90.6
76	359.0	240.1	360.1





#13

Iodomethane

Concen: 8.39 ug/L M1

RT: 3.046 min Scan# 631

Delta R.T. 0.005 min

Lab File: V08161005A02.D

Acq: 5 Oct 2016 9:56 am

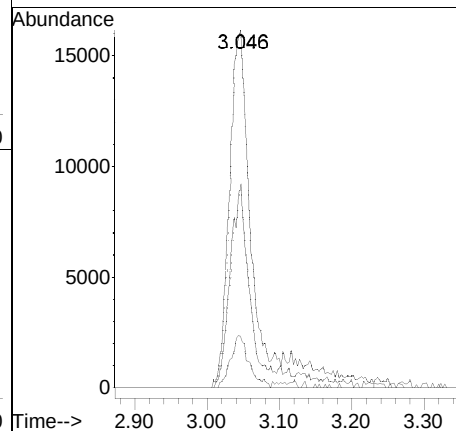
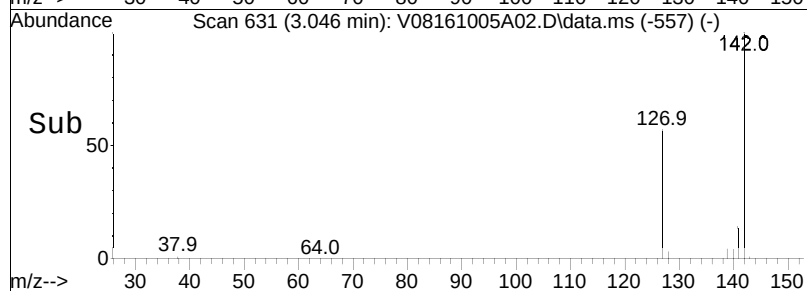
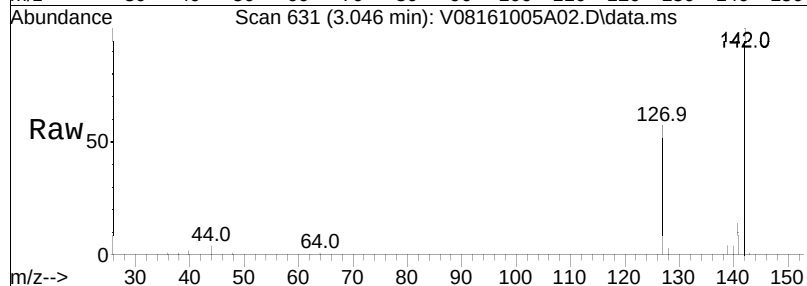
Tgt Ion:142 Resp: 37545

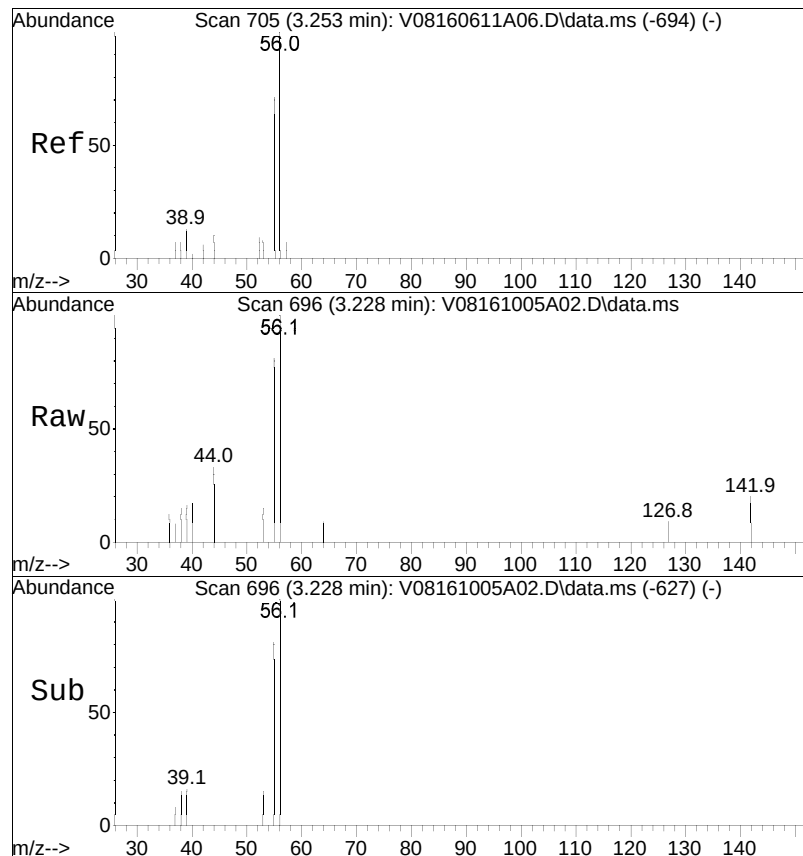
Ion Ratio Lower Upper

142 100

127 44.7 33.2 69.0

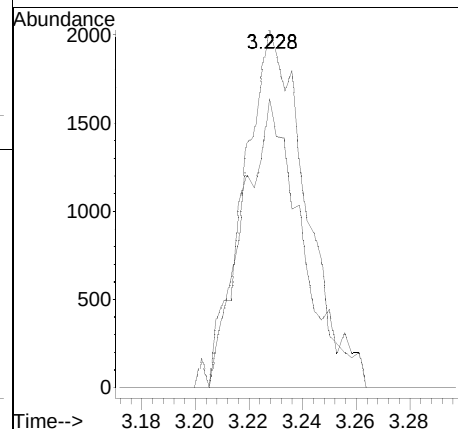
141 11.1 9.4 19.6

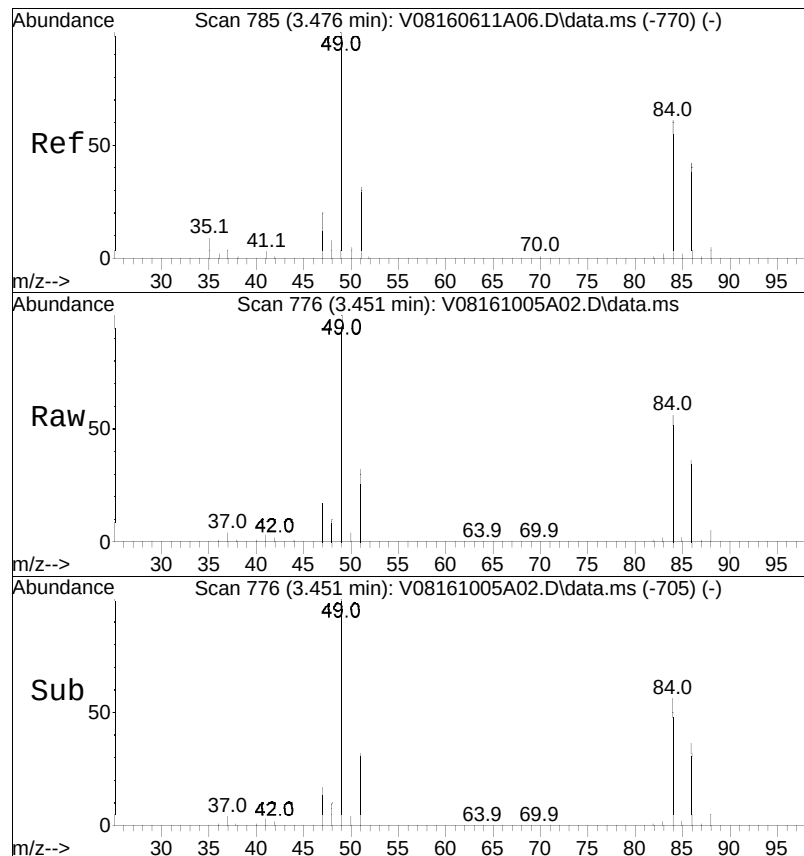




#14
 Acrolein
 Concen: 7.18 ug/L
 RT: 3.228 min Scan# 696
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

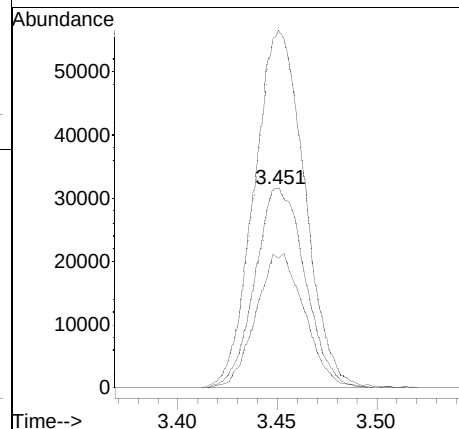
Tgt Ion	Ratio	Lower	Upper
56	100		
55	81.8	52.1	78.1#

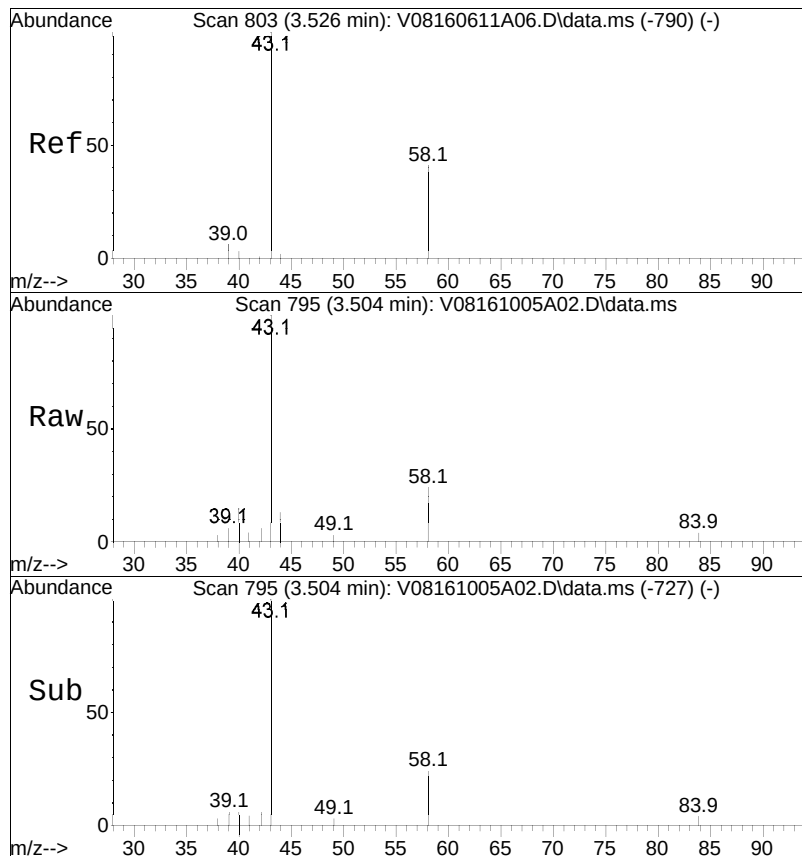




#15
Methylene chloride
Concen: 10.07 ug/L
RT: 3.451 min Scan# 776
Delta R.T. -0.003 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

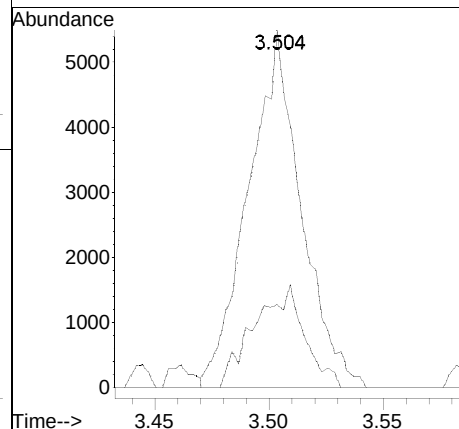
Tgt Ion:	84	Resp:	54958
Ion Ratio	Lower	Upper	
84	100		
86	65.4	41.7	86.7
49	180.5	124.3	258.1

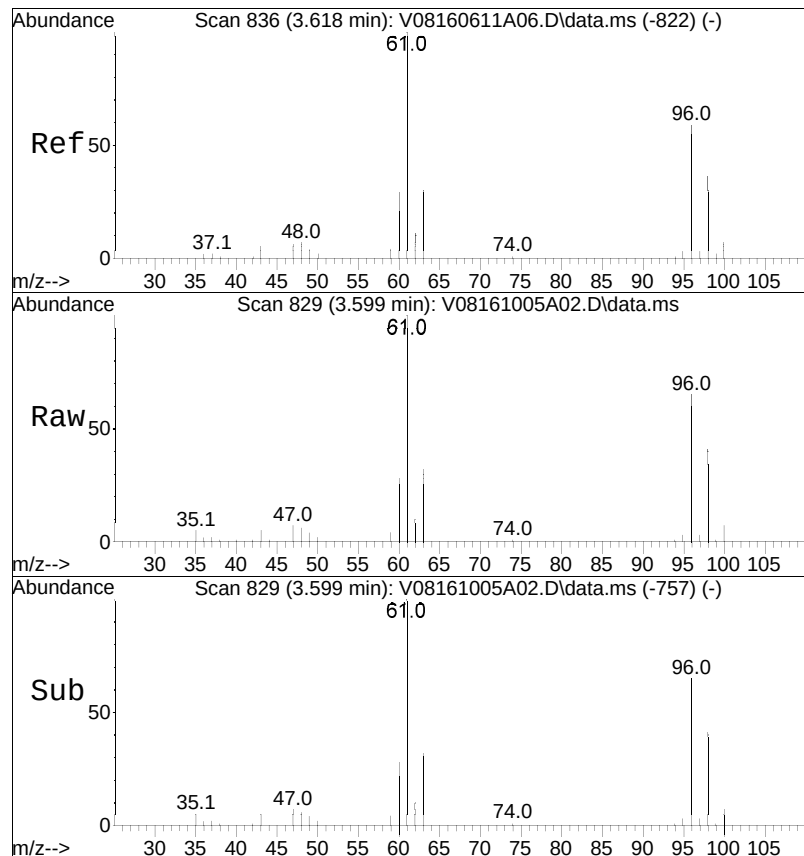




#17
 Acetone
 Concen: 10.16 ug/L
 RT: 3.504 min Scan# 795
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

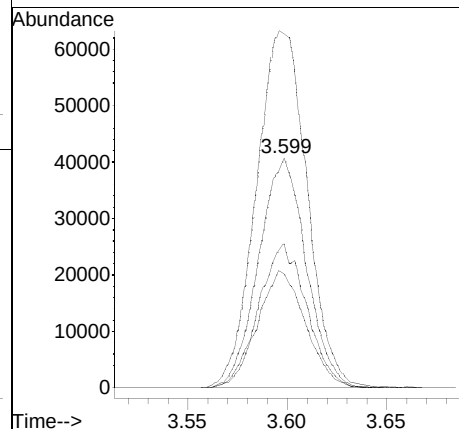
Tgt Ion:	43	58	Ratio	100	27.6	Resp:	8742	Lower	Upper
43	100								
58		27.6						24.5	36.7

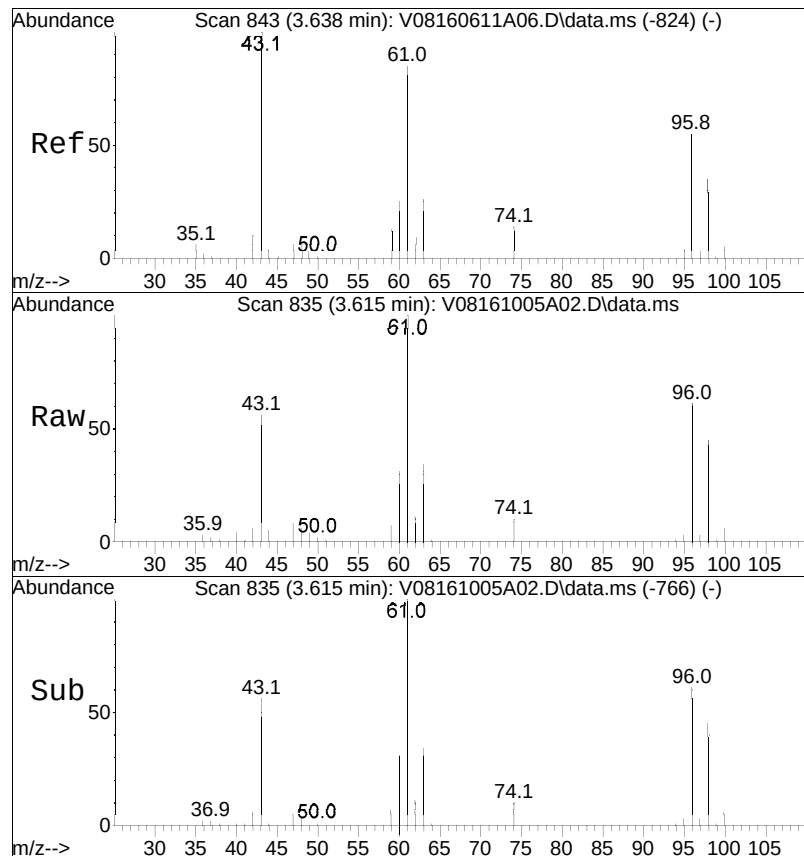




#18
 trans-1,2-Dichloroethene
 Concen: 10.80 ug/L
 RT: 3.599 min Scan# 829
 Delta R.T. -0.001 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

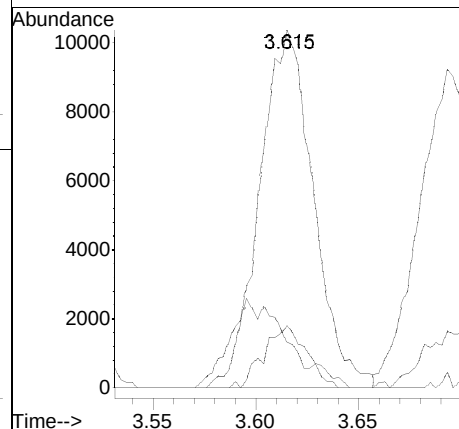
Tgt Ion:	96	Resp:	67341
Ion Ratio	Lower	Upper	
96	100		
61	165.6	114.1	236.9
98	63.5	42.1	87.3
63	51.6	36.1	74.9

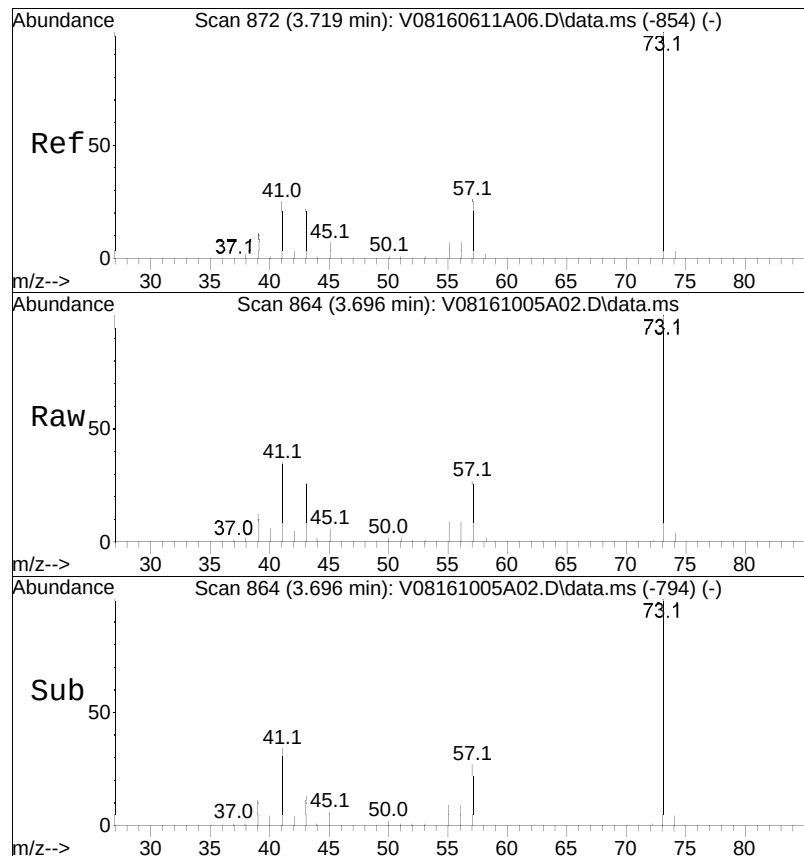




#19
Methyl acetate
Concen: 10.07 ug/L
RT: 3.615 min Scan# 835
Delta R.T. -0.009 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

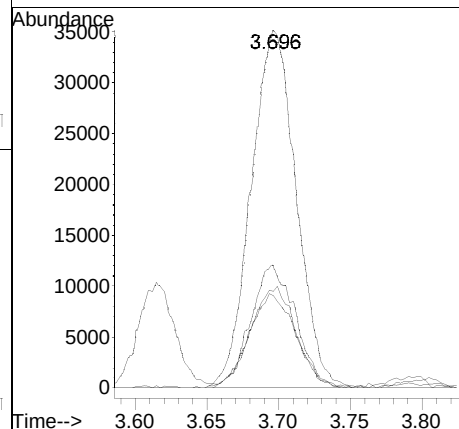
Tgt Ion:	43	Resp:	18803
Ion Ratio	Lower	Upper	
43	100		
74	14.9	6.5	9.7#
59	13.0	15.6	23.4#

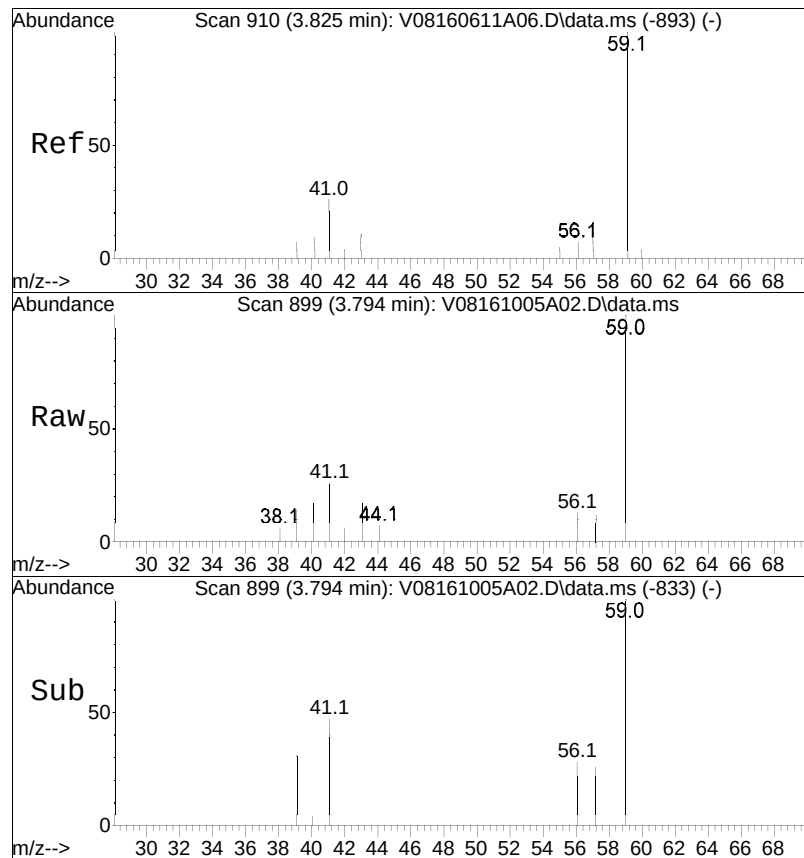




#20
Methyl tert-butyl ether
Concen: 9.54 ug/L
RT: 3.696 min Scan# 864
Delta R.T. -0.006 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

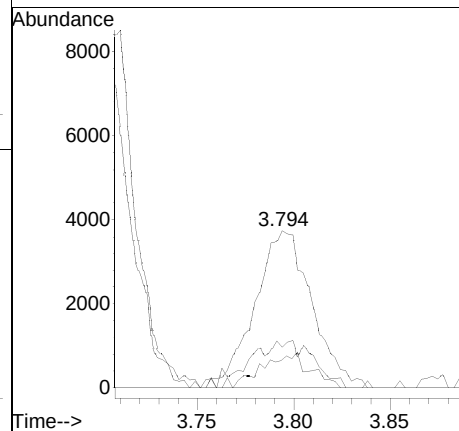
Tgt Ion:	73	Resp:	76268
Ion Ratio	Lower	Upper	
73	100		
57	28.7	21.4	44.4
43	27.2	8.1	16.9#
41	34.6	21.7	45.1

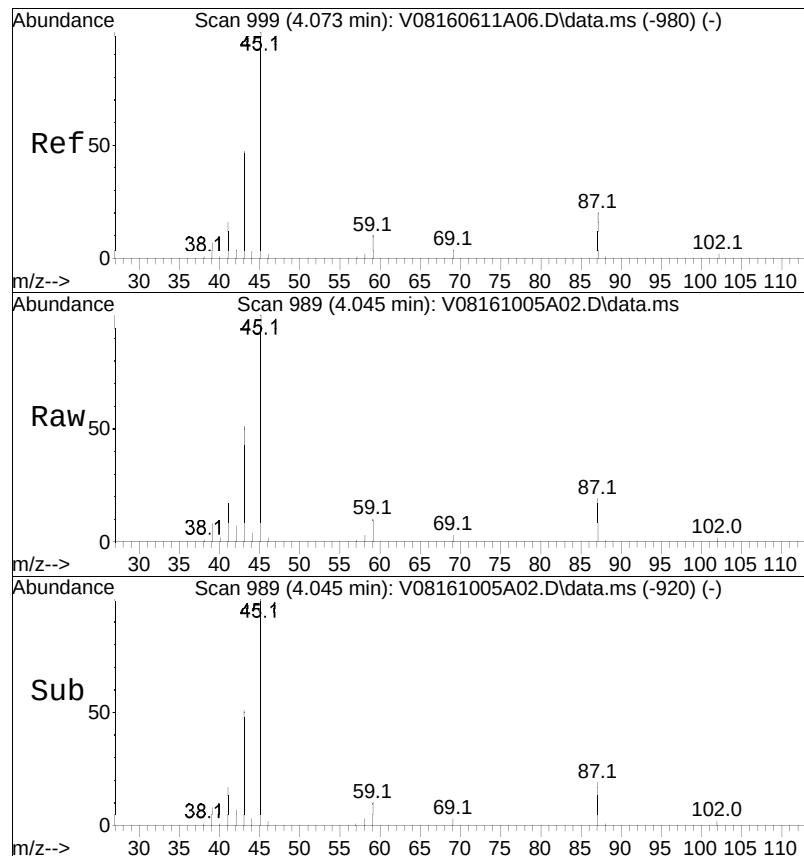




#21
 tert-Butyl alcohol
 Concen: 50.67 ug/L
 RT: 3.794 min Scan# 899
 Delta R.T. -0.016 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

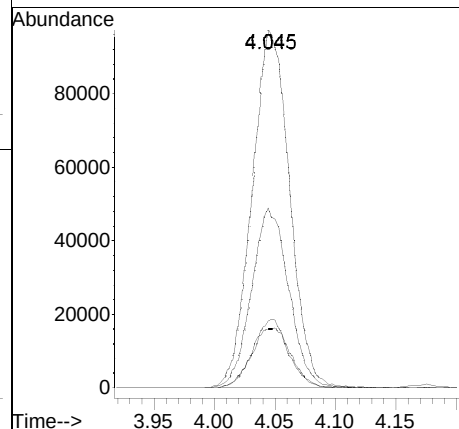
Tgt Ion:	59	Resp:	7665
Ion Ratio	Lower	Upper	
59	100		
41	22.1	22.3	46.3#
43	18.4	0.0	0.0#

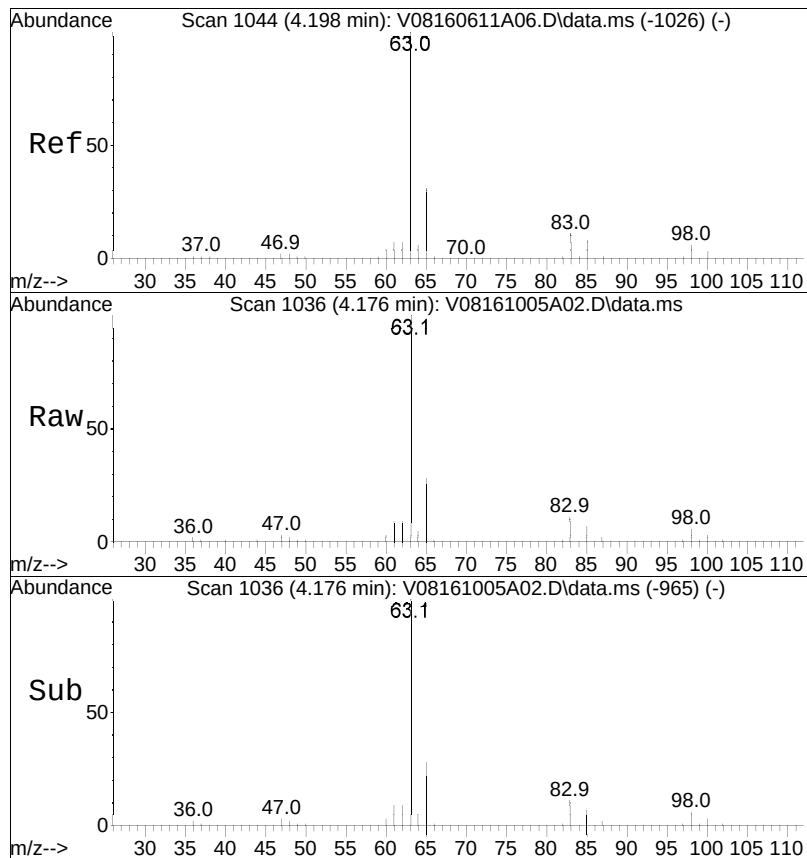




#22
 Diisopropyl ether
 Concen: 9.80 ug/L
 RT: 4.045 min Scan# 989
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

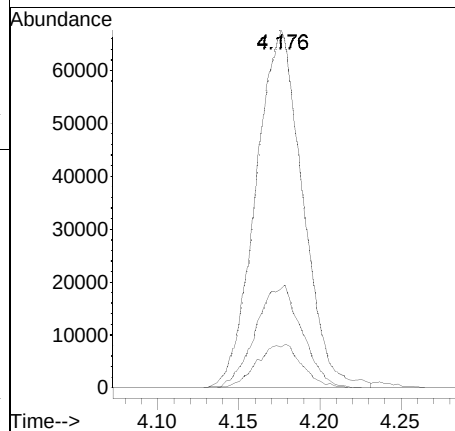
Tgt Ion:	45	Resp:	208568
Ion Ratio	Lower	Upper	
45	100		
43	49.9	29.1	60.5
87	18.6	11.7	24.3
41	17.5	9.9	20.5

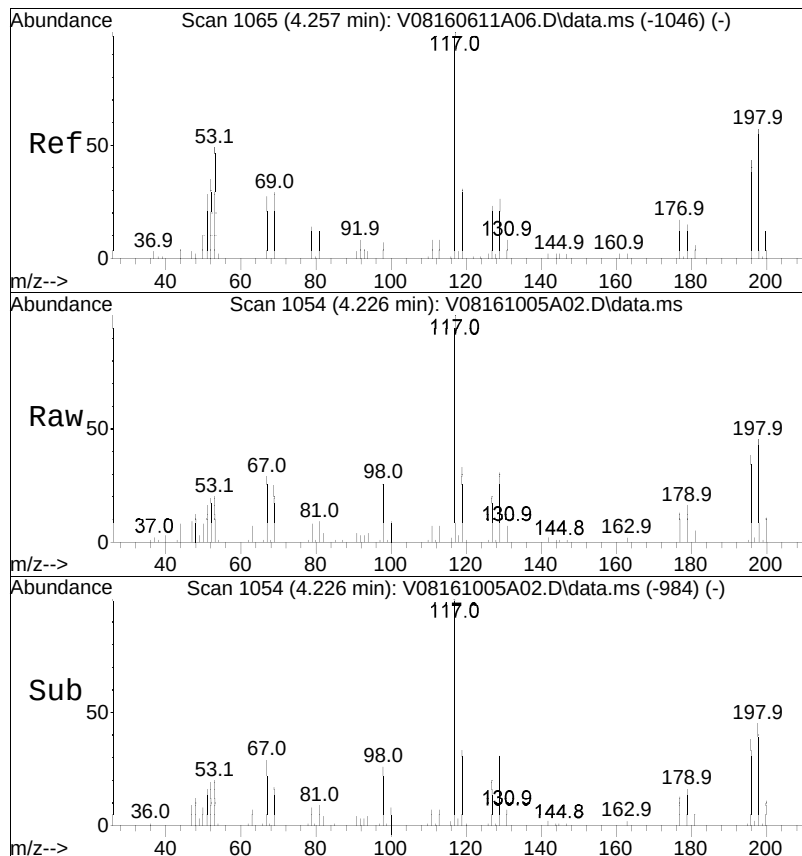




#23
 1,1-Dichloroethane
 Concen: 10.24 ug/L
 RT: 4.176 min Scan# 1036
 Delta R.T. -0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

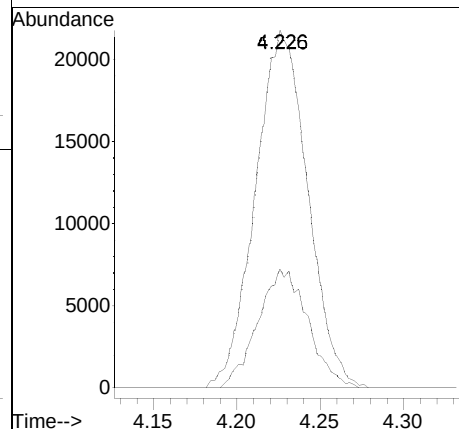
Tgt	Ion: 63	Resp: 134741
Ion	Ratio	Lower Upper
63	100	
65	28.5	8.1 48.1
83	11.8	0.0 30.5

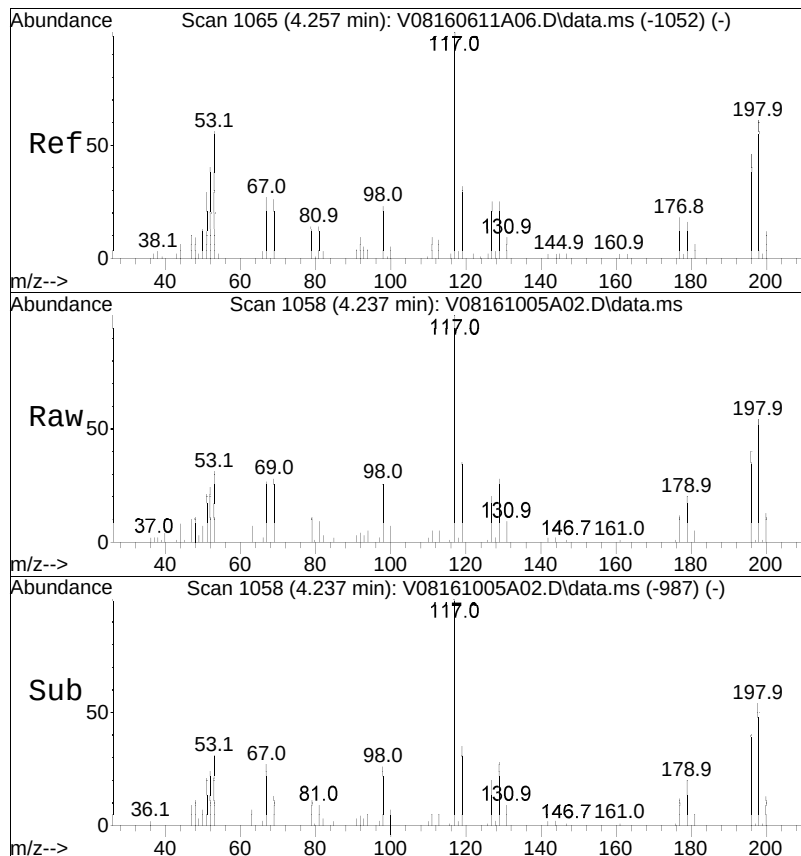




#24
 Halothane
 Concen: 10.86 ug/L
 RT: 4.226 min Scan# 1054
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

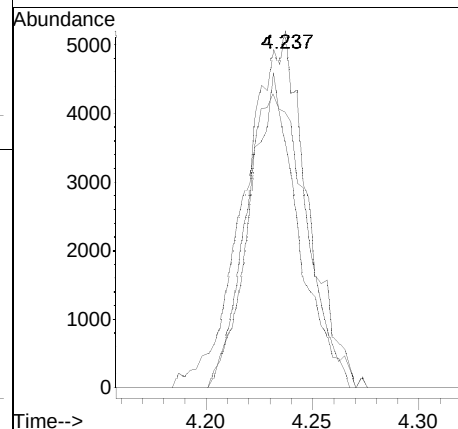
Tgt Ion	Ratio	Lower	Upper
117	100		
119	32.0	9.9	20.5#

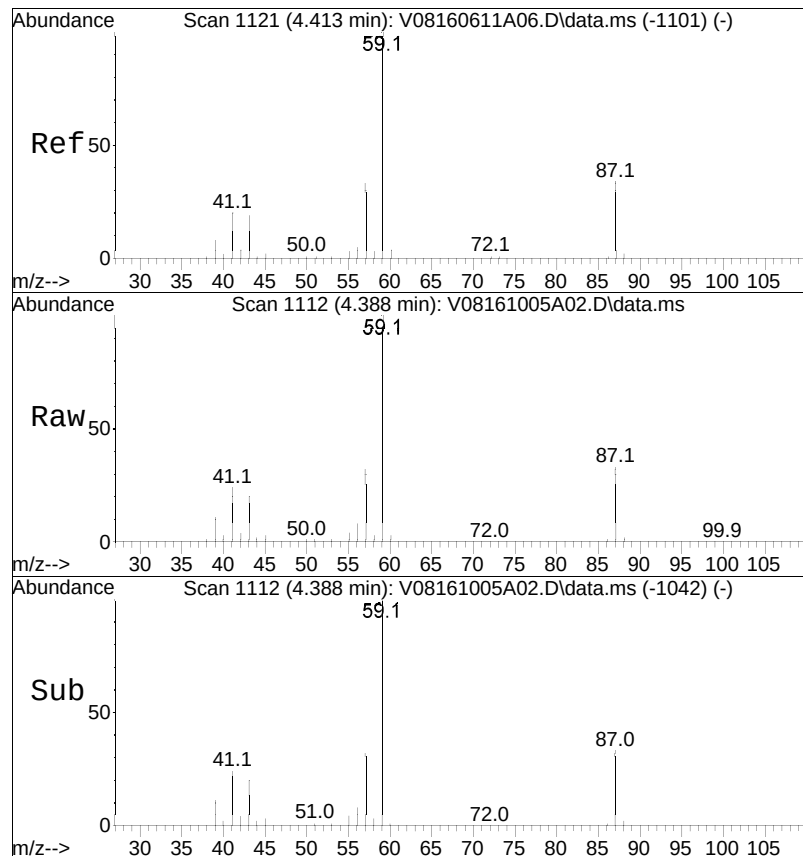




#25
 Acrylonitrile
 Concen: 9.08 ug/L
 RT: 4.237 min Scan# 1058
 Delta R.T. -0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

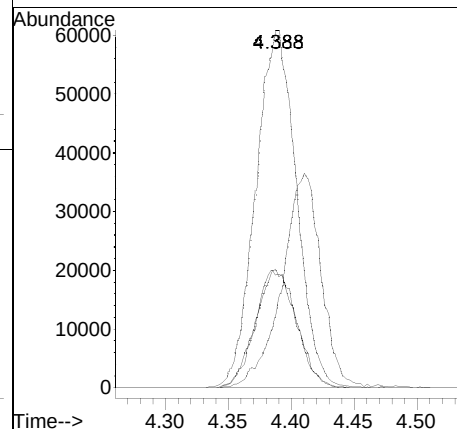
Tgt Ion:	53	Resp:	9719
Ion Ratio	Lower	Upper	
53	100		
52	85.0	69.4	104.0
51	86.9	47.5	71.3#

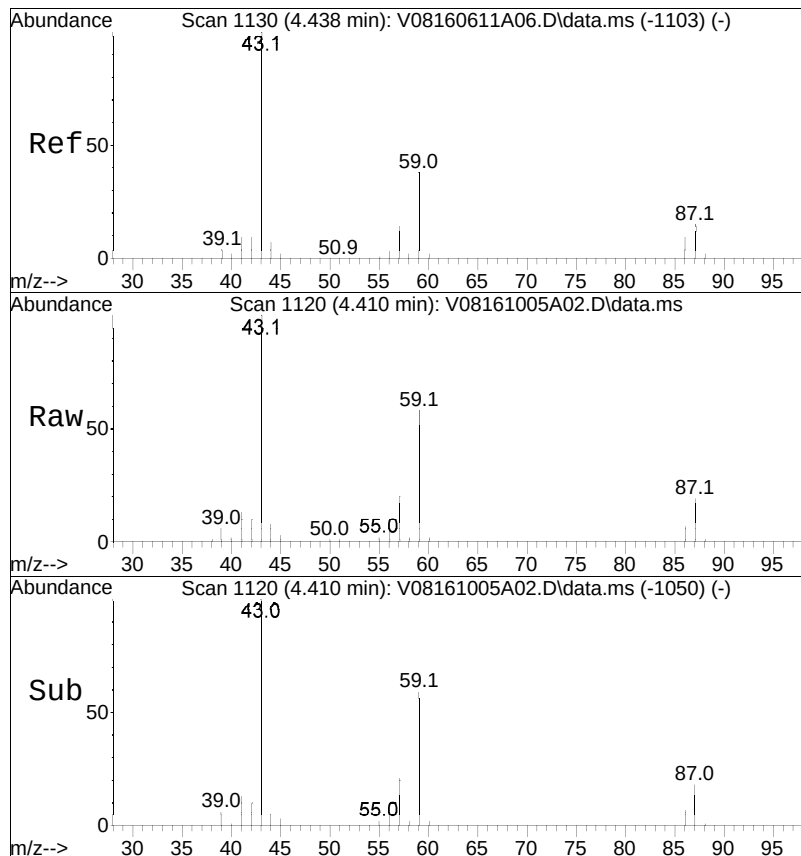




#26
 Ethyl tert-butyl ether
 Concen: 9.15 ug/L
 RT: 4.388 min Scan# 1112
 Delta R.T. -0.005 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

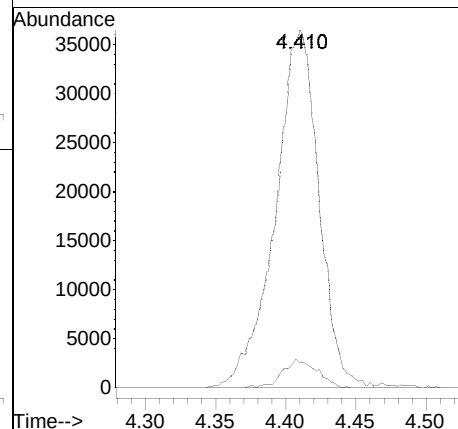
Tgt	Ion: 59	Resp:	135990
Ion	Ratio	Lower	Upper
59	100		
87	33.1	20.9	43.5
57	33.6	21.5	44.7
43	57.8	45.8	95.2

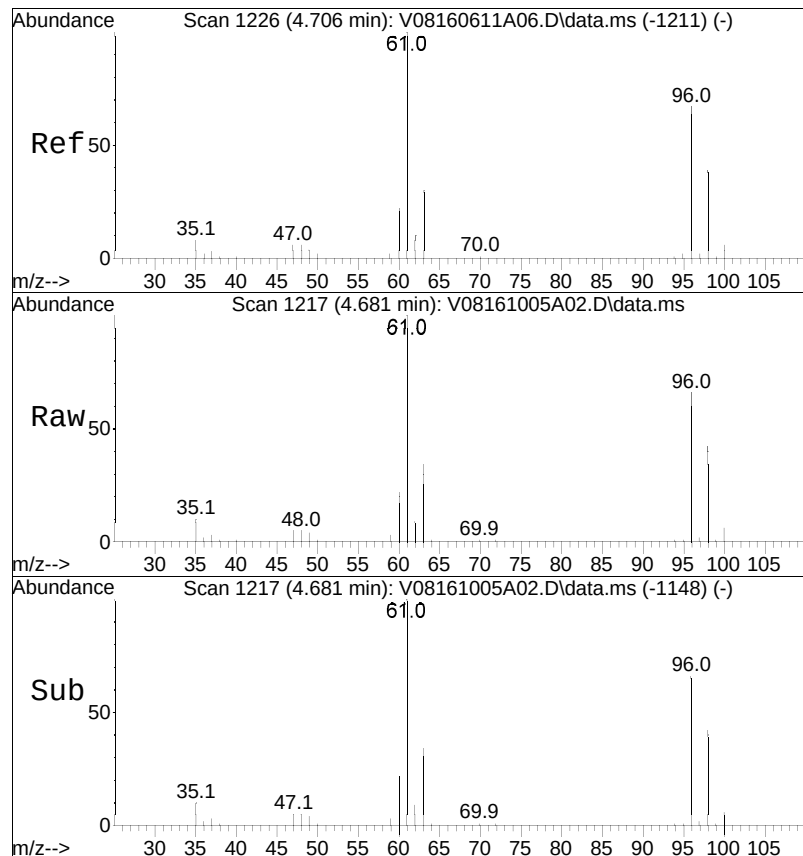




#27
 Vinyl acetate
 Concen: 9.82 ug/L
 RT: 4.410 min Scan# 1120
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

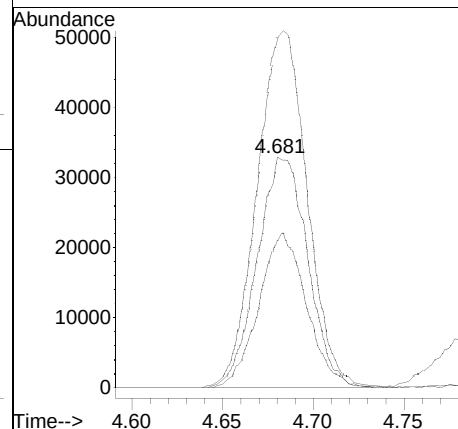
Tgt Ion:	43	86	Ratio	100	6.4	Resp:	78607	Lower	3.4	Upper	5.2#

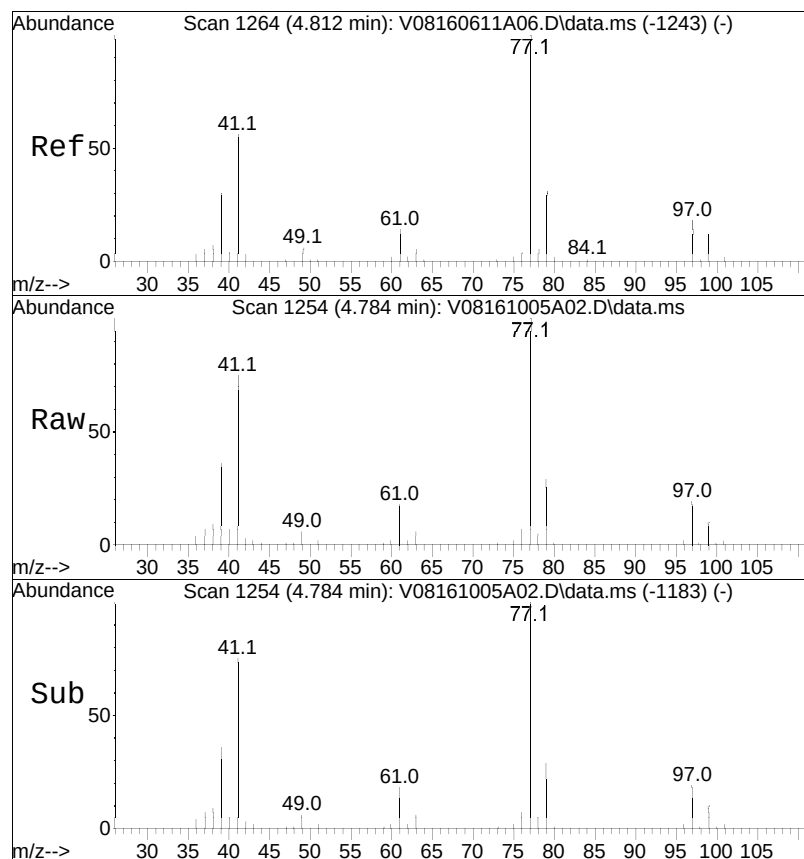




#28
 cis-1,2-Dichloroethene
 Concen: 10.08 ug/L
 RT: 4.681 min Scan# 1217
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

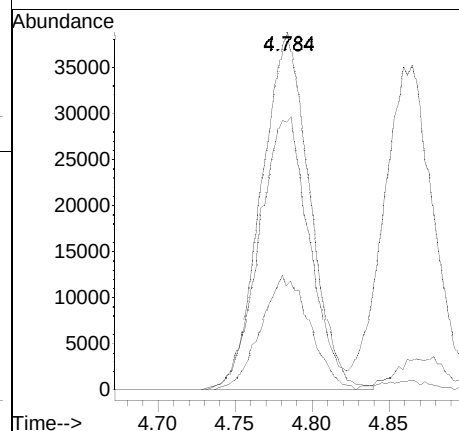
Tgt Ion: 96	Resp: 63384
Ion Ratio	Lower Upper
96 100	
61 153.7	127.6 191.4
98 63.6	50.0 75.0

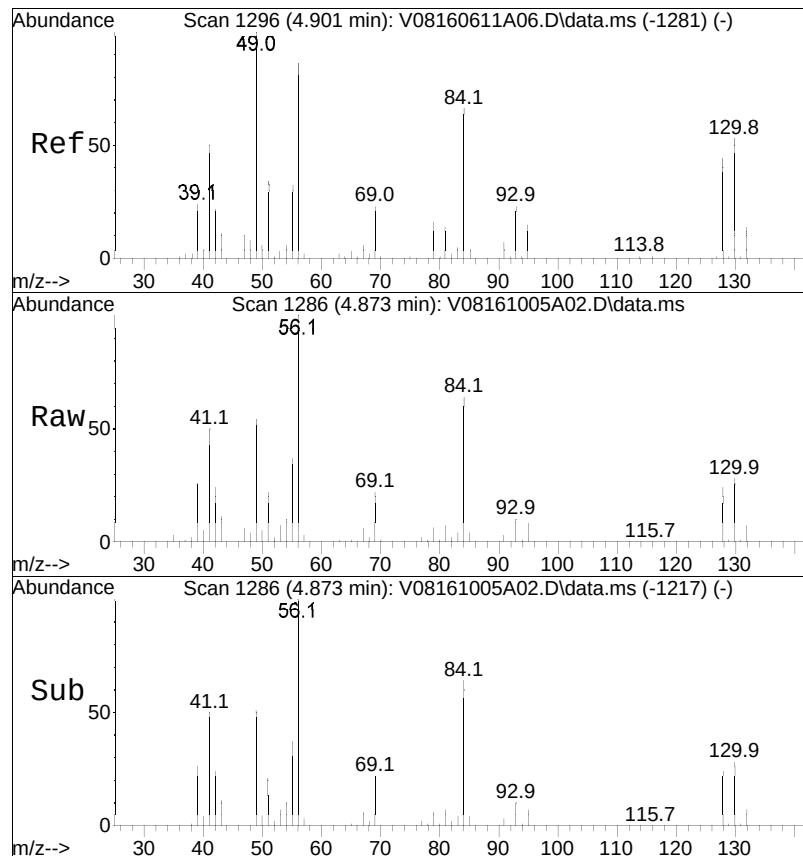




#29
 2,2-Dichloropropane
 Concen: 10.82 ug/L
 RT: 4.784 min Scan# 1254
 Delta R.T. -0.002 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

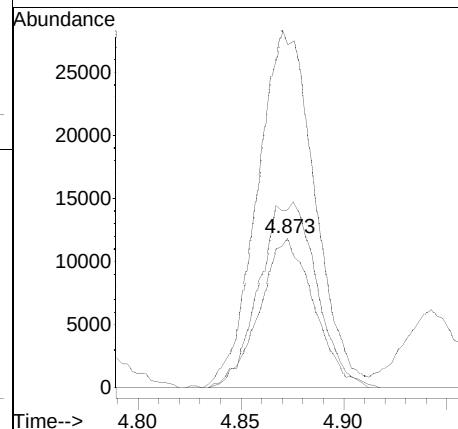
Tgt Ion:	77	Resp:	84606
Ion Ratio	Lower	Upper	
77	100		
41	79.4	52.5	108.9
79	32.3	21.1	43.7

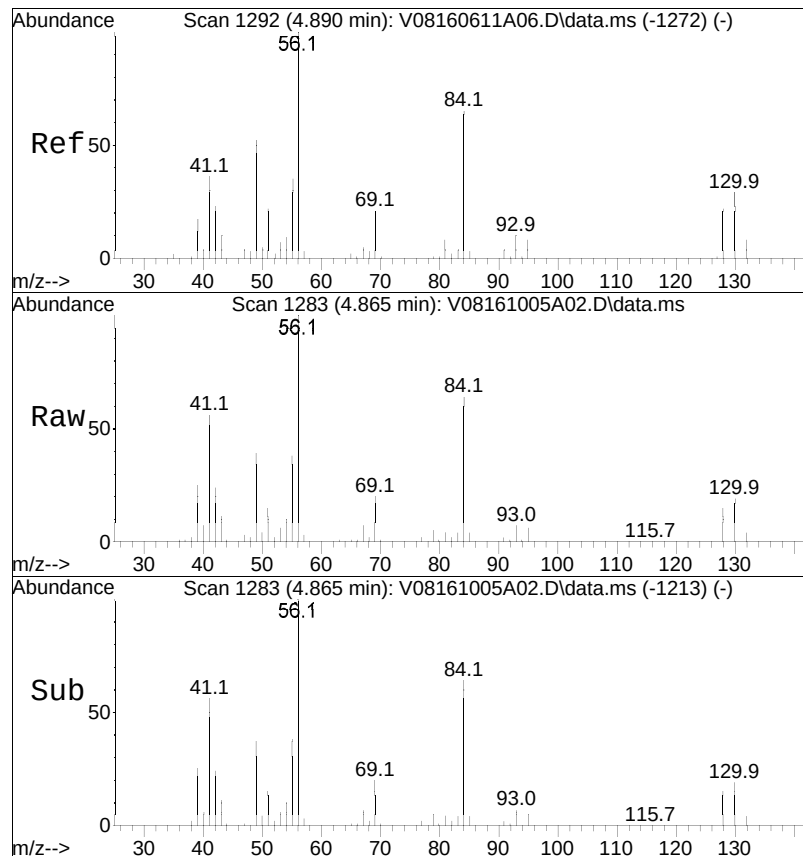




#30
 Bromochloromethane
 Concen: 9.40 ug/L
 RT: 4.873 min Scan# 1286
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

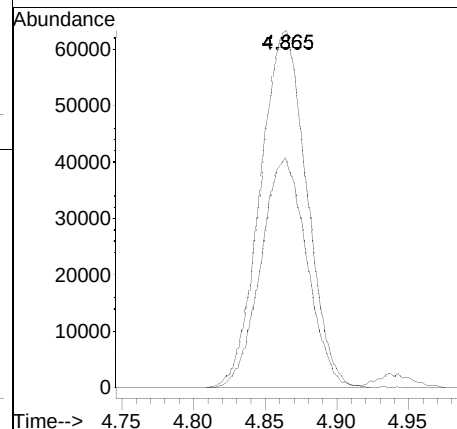
Tgt Ion:	128	Resp:	21773
Ion Ratio	Lower	Upper	
128	100		
49	251.8	224.2	336.4
130	131.2	105.3	157.9

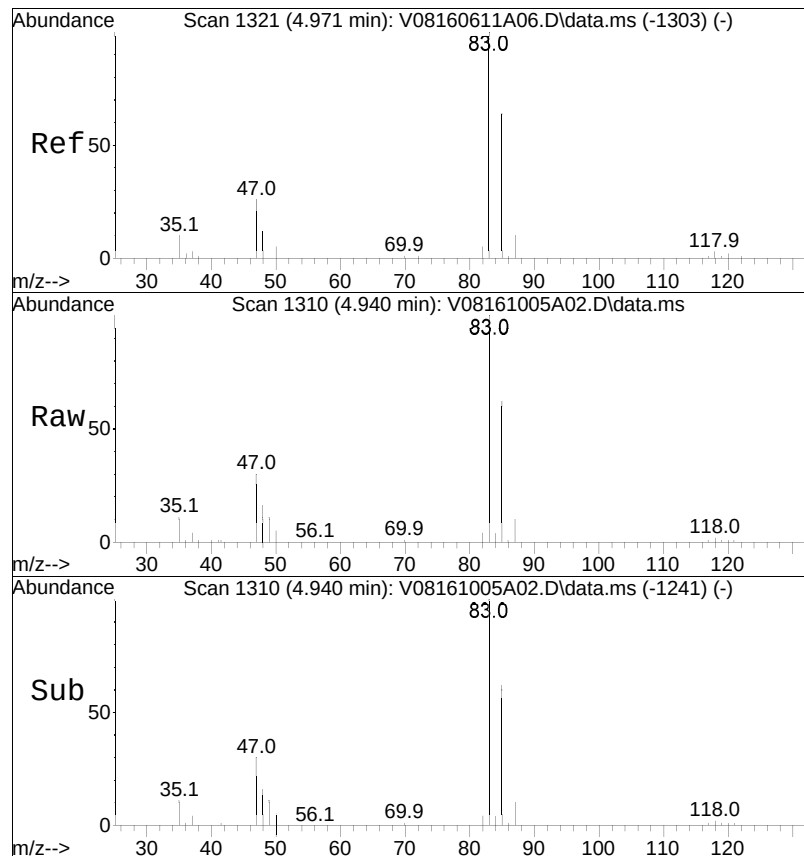




#31
Cyclohexane
Concen: 9.86 ug/L
RT: 4.865 min Scan# 1283
Delta R.T. -0.005 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

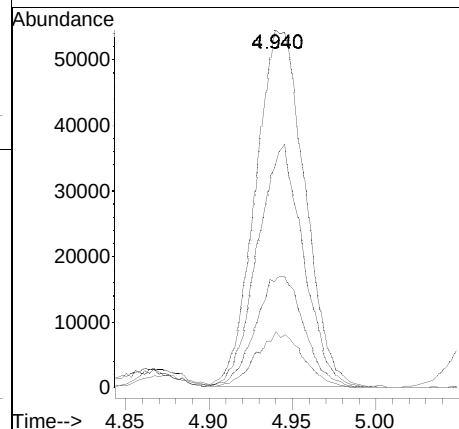
Tgt	Ion	Resp	Lower	Upper
56	100	141977		
84	63.9	37.2	77.4	

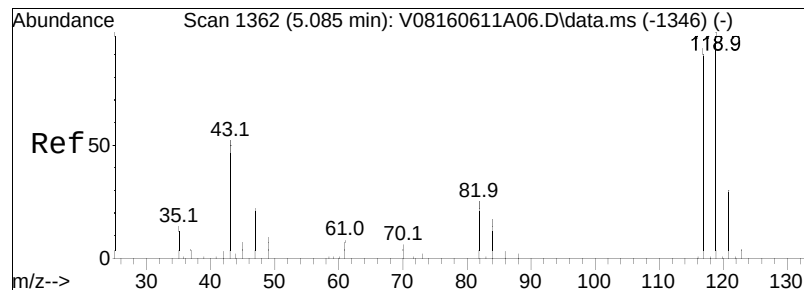




#32
 Chloroform
 Concen: 10.57 ug/L
 RT: 4.940 min Scan# 1310
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

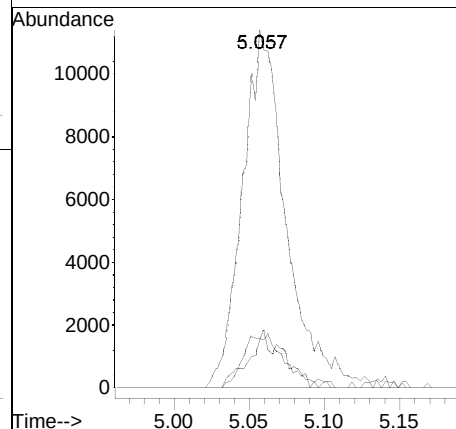
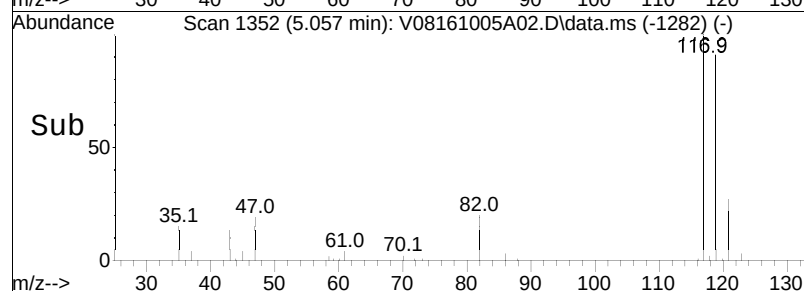
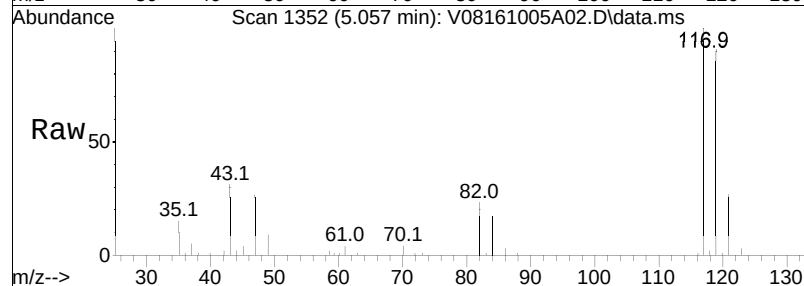
Tgt	Ion: 83	Resp:	111307
Ion	Ratio	Lower	Upper
83	100		
85	64.0	42.7	88.7
47	31.1	20.9	43.5
48	15.0	10.5	21.7

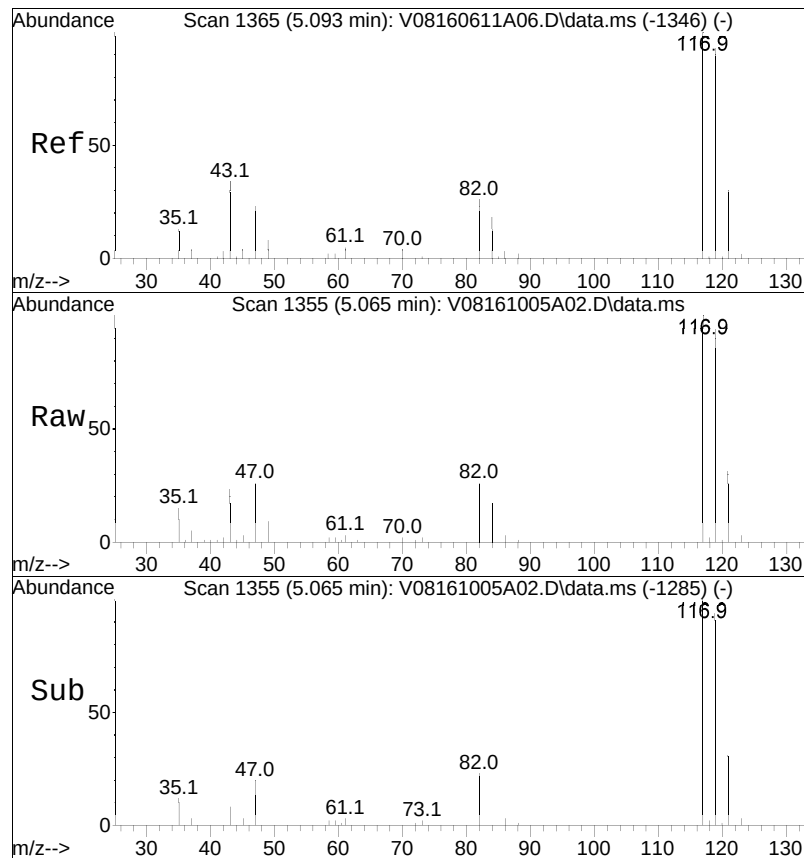




#33
 Ethyl acetate
 Concen: 8.93 ug/L
 RT: 5.057 min Scan# 1352
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

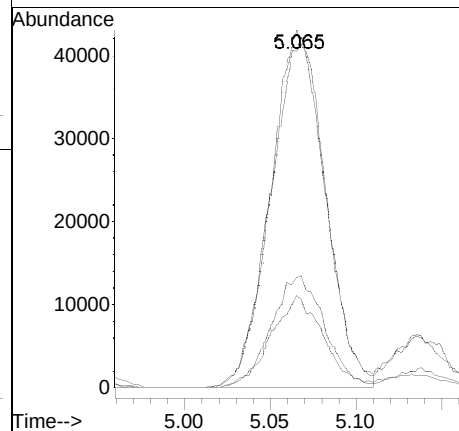
Tgt Ion	Ratio	Lower	Upper
43	100		
45	14.2	10.5	15.7
70	7.6	3.7	5.5#

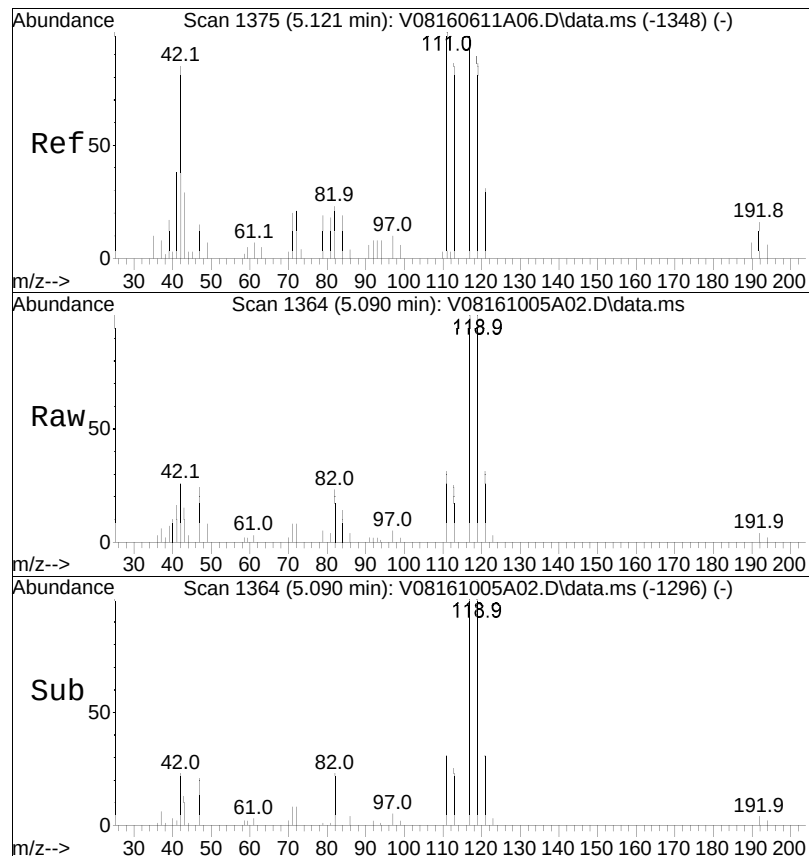




#34
 Carbon tetrachloride
 Concen: 10.35 ug/L
 RT: 5.065 min Scan# 1355
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

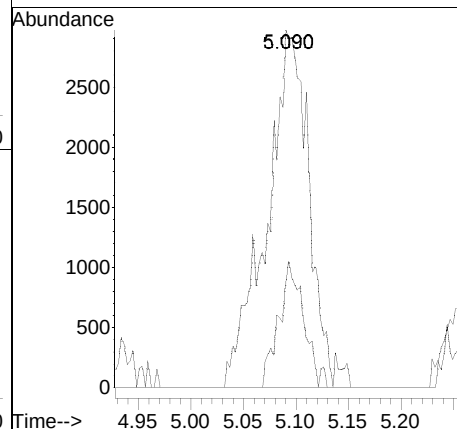
Tgt Ion:	117	Resp:	95471
Ion Ratio	Lower	Upper	
117	100		
119	96.5	62.9	130.5
121	30.3	20.0	41.4
82	24.8	16.7	34.7

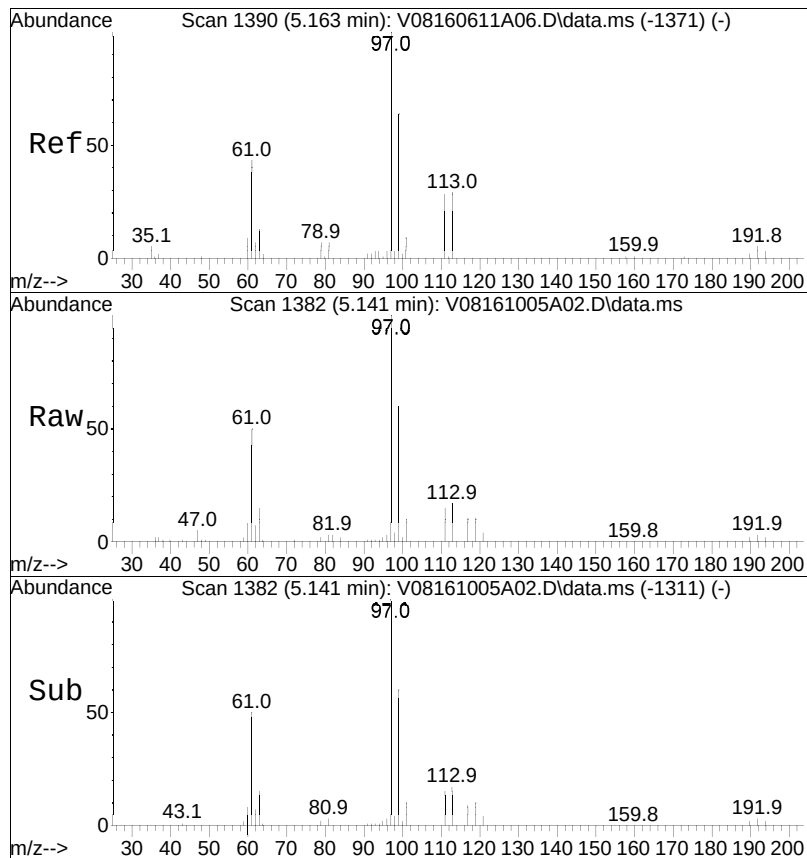




#35
 Tetrahydrofuran
 Concen: 8.89 ug/L M1
 RT: 5.090 min Scan# 1364
 Delta R.T. -0.012 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

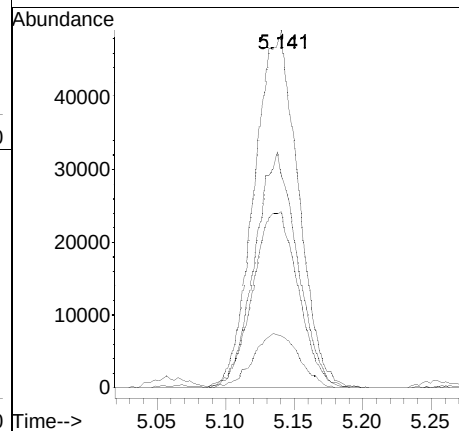
Tgt Ion: 42 Resp: 8279
 Ion Ratio Lower Upper
 42 100
 71 20.5 17.4 26.2

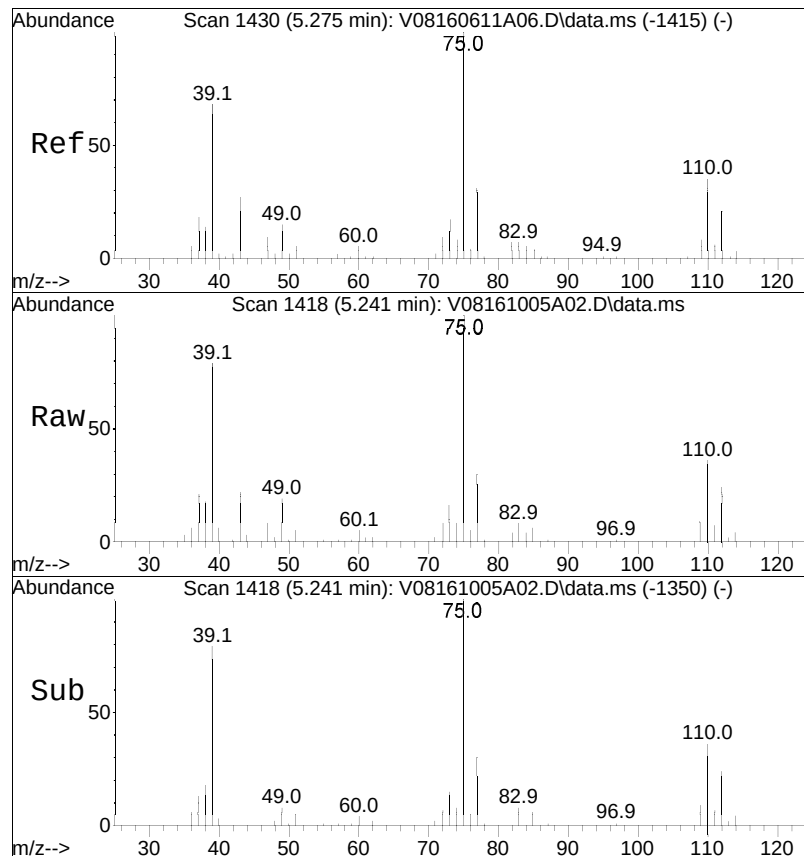




#37
 1,1,1-Trichloroethane
 Concen: 10.83 ug/L
 RT: 5.141 min Scan# 1382
 Delta R.T. -0.002 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

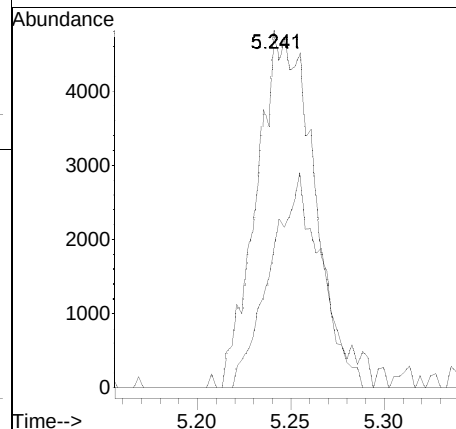
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	108880		
99	63.5		40.3	83.7
61	51.2		34.3	71.1
63	15.9		6.0	12.4#

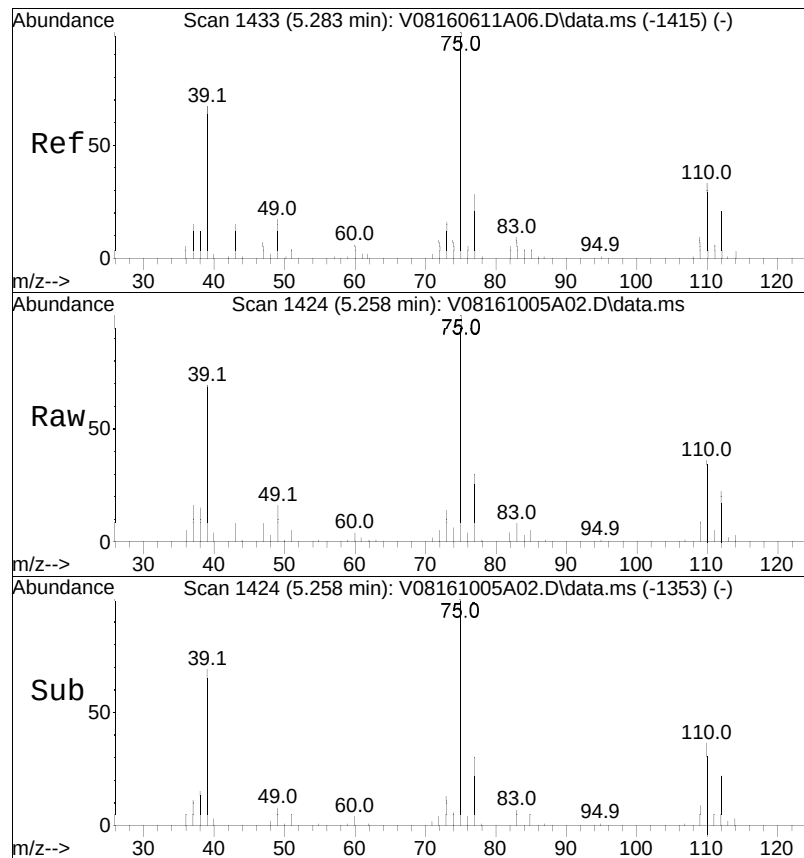




#39
 2-Butanone
 Concen: 10.13 ug/L
 RT: 5.241 min Scan# 1418
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

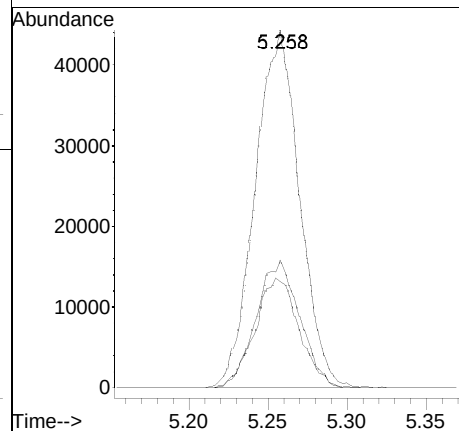
Tgt	Ion	Resp	Lower	Upper
43	100			
72	52.0	30.0	45.0	

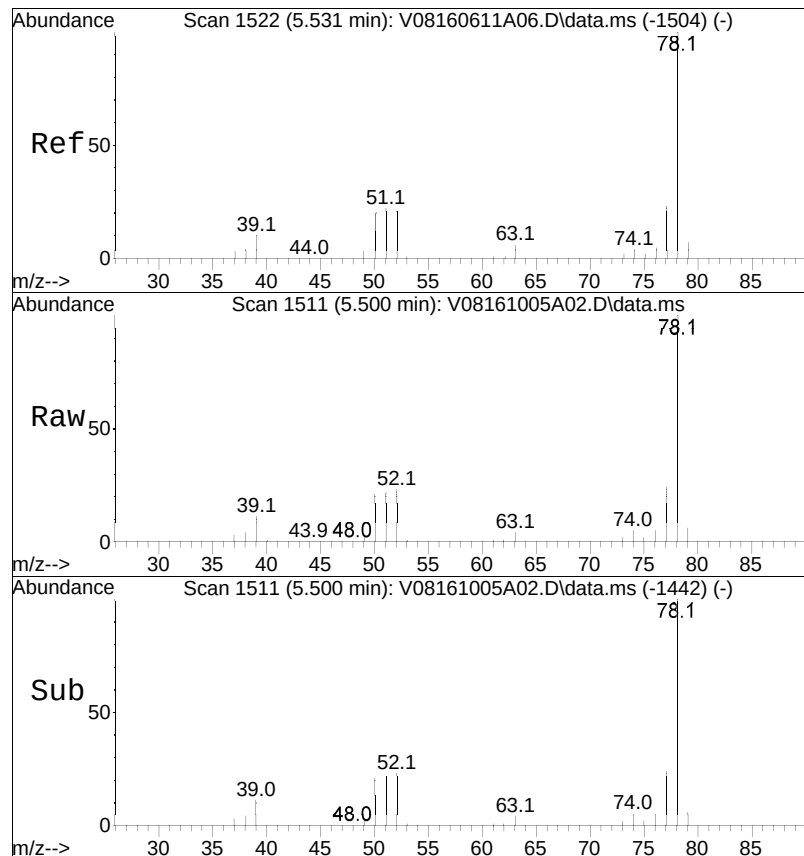




#40
 1,1-Dichloropropene
 Concen: 10.17 ug/L
 RT: 5.258 min Scan# 1424
 Delta R.T. -0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

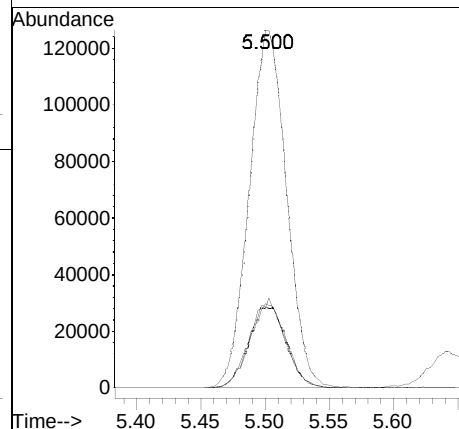
Tgt	Ion	Ratio	Resp	Lower	Upper
75	100		86049		
110	35.1	22.9	47.7		
77	30.4	20.3	42.3		

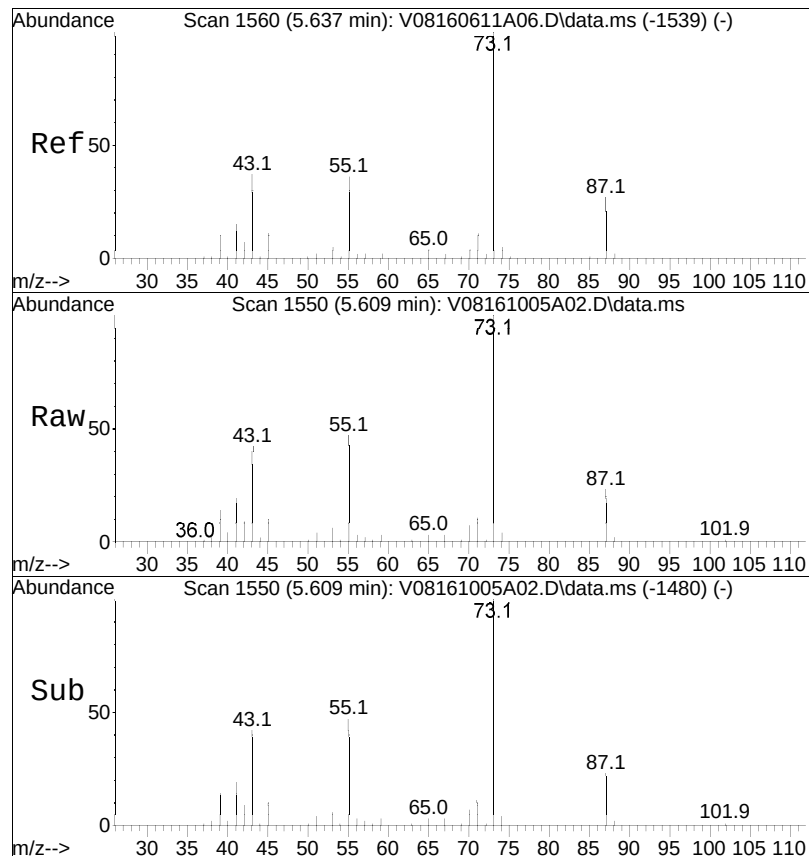




#41
Benzene
Concen: 10.23 ug/L
RT: 5.500 min Scan# 1511
Delta R.T. -0.009 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

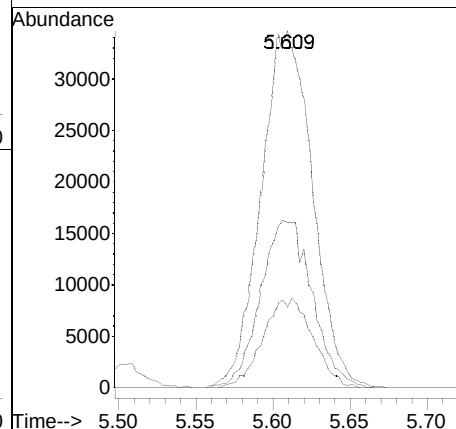
Tgt	Ion: 78	Resp:	253037
Ion	Ratio	Lower	Upper
78	100		
77	23.3	14.9	30.9
51	24.1	15.7	32.7
52	22.9	15.8	32.8

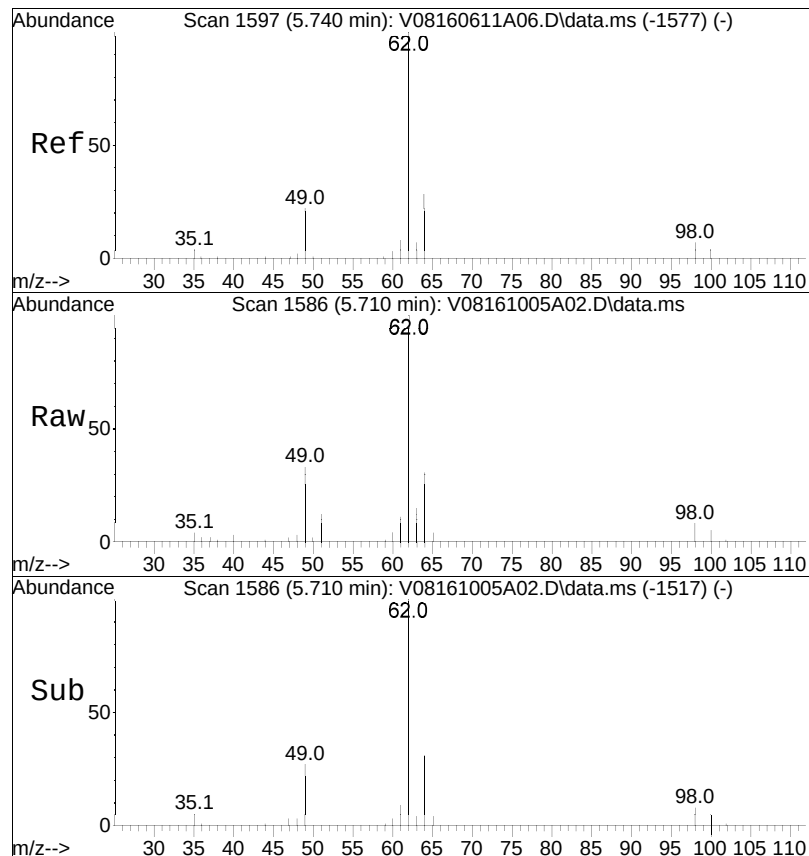




#42
 tert-Amyl methyl ether
 Concen: 8.83 ug/L
 RT: 5.609 min Scan# 1550
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

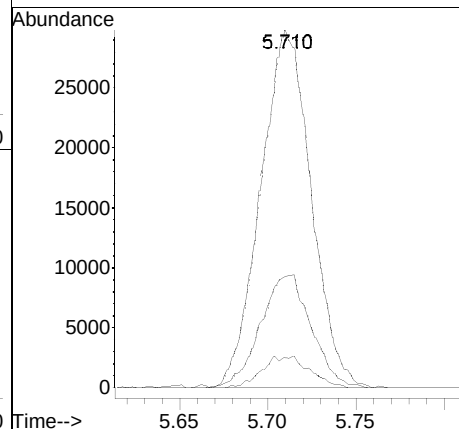
Tgt Ion:	73	Resp:	79949
Ion Ratio	Lower	Upper	
73	100		
55	47.3	32.8	68.0
87	12.5	9.4	19.4

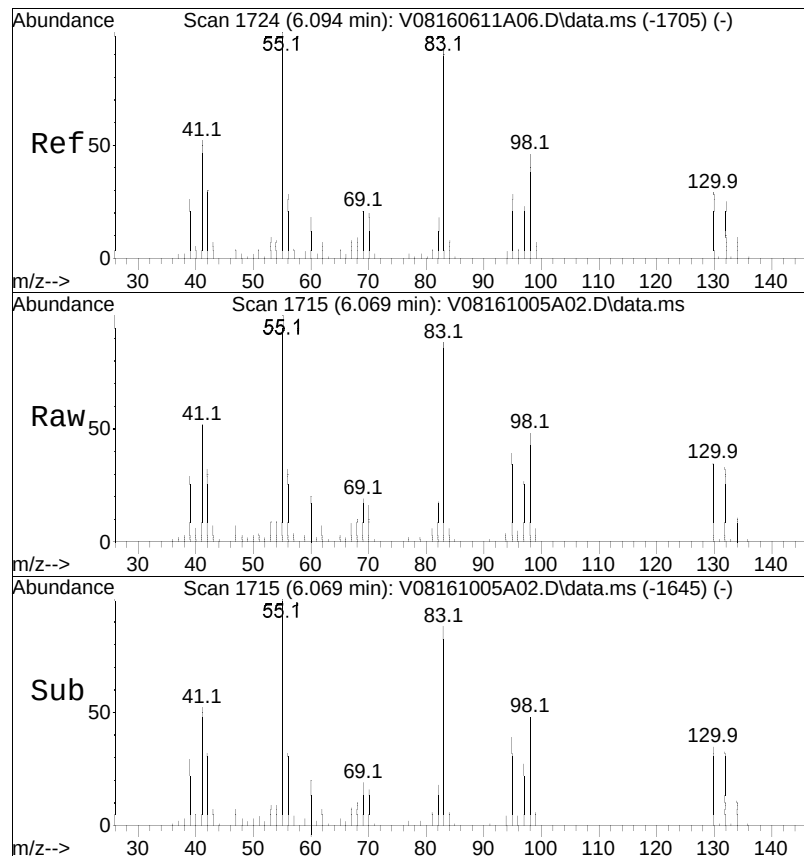




#44
 1,2-Dichloroethane
 Concen: 9.26 ug/L
 RT: 5.710 min Scan# 1586
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

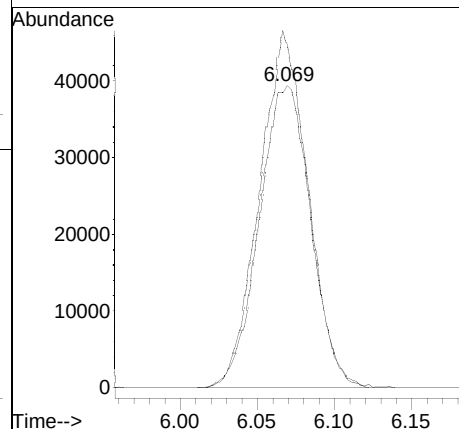
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.9	10.9	50.9
98	3.6	0.0	23.4

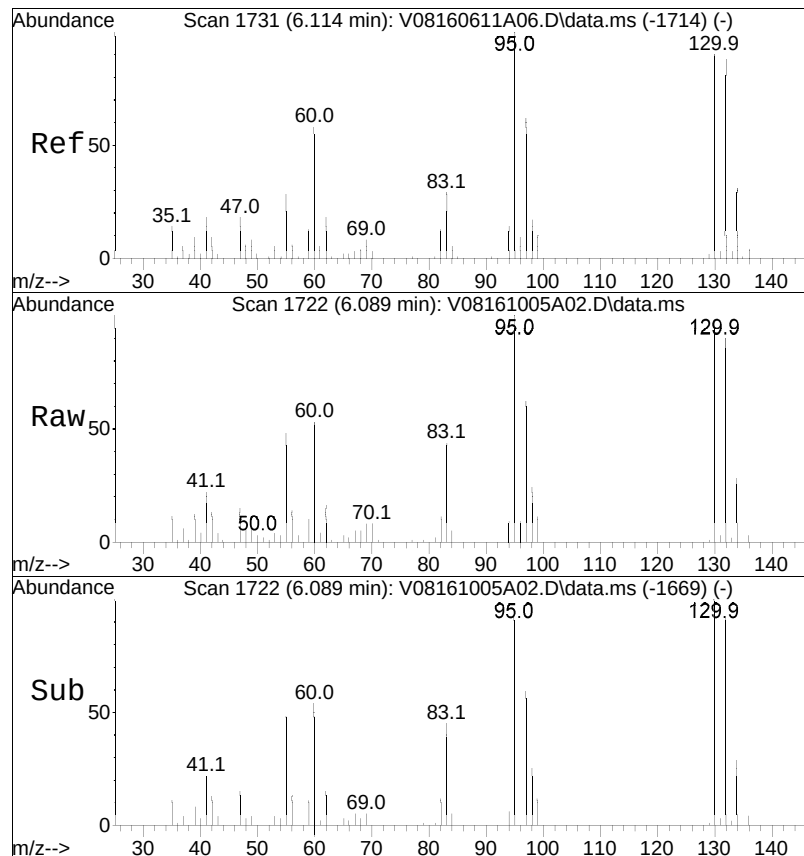




#47
 Methyl cyclohexane
 Concen: 9.12 ug/L
 RT: 6.069 min Scan# 1715
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

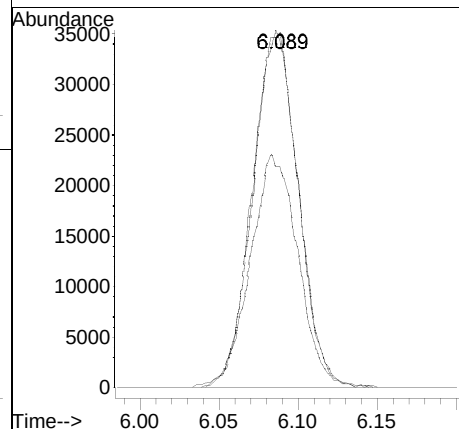
Tgt Ion	Ratio	Lower	Upper
83	100		
55	111.5	91.3	136.9

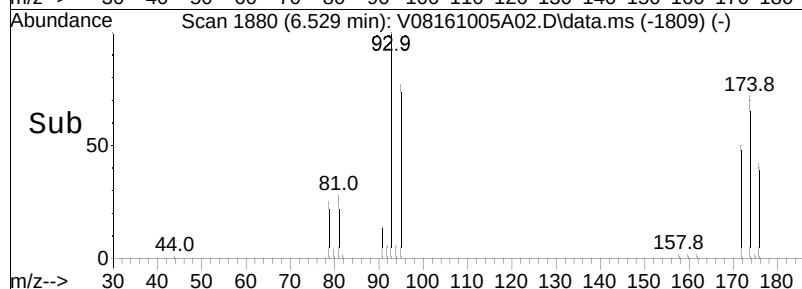
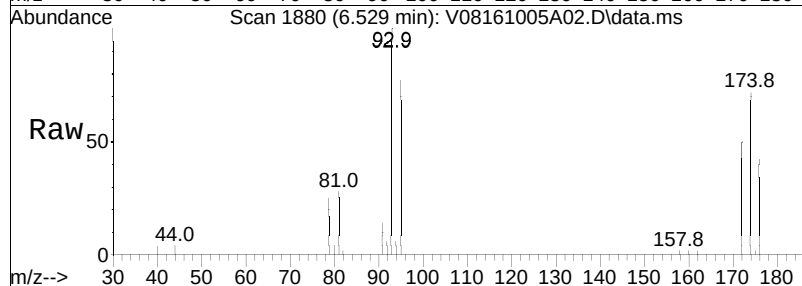
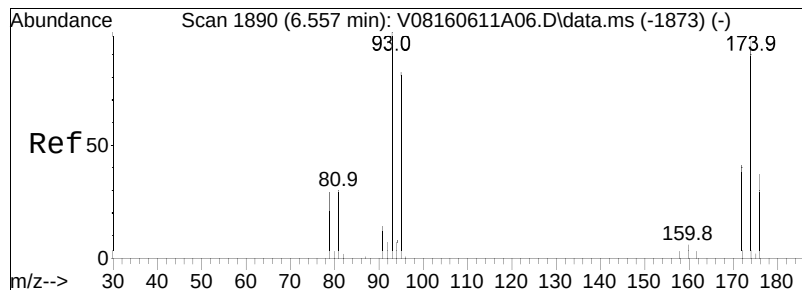




#48
 Trichloroethene
 Concen: 10.63 ug/L
 RT: 6.089 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

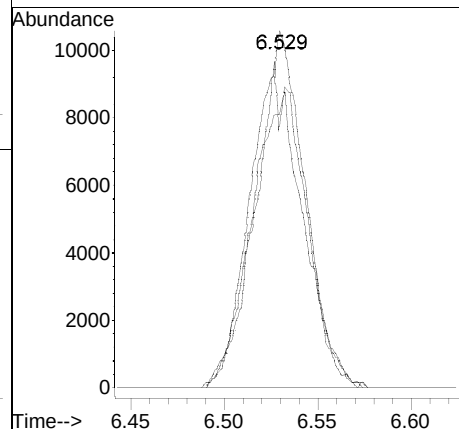
Tgt Ion:	95	Resp:	70790
Ion Ratio	Lower	Upper	
95	100		
97	67.8	55.1	82.7
130	98.8	77.3	115.9

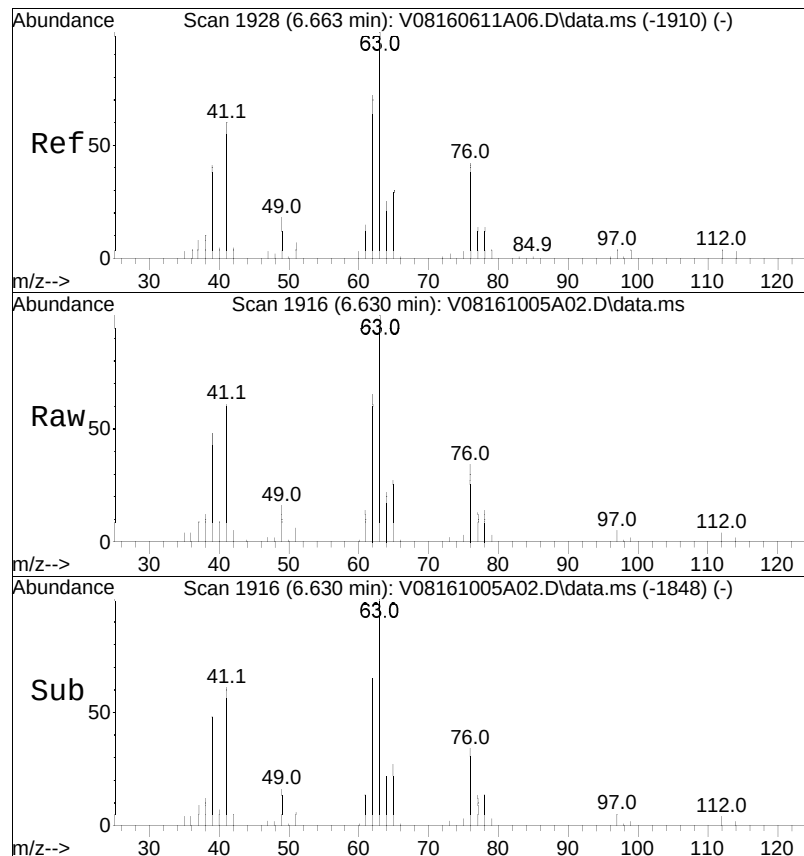




#50
 Dibromomethane
 Concen: 9.56 ug/L
 RT: 6.529 min Scan# 1880
 Delta R.T. -0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

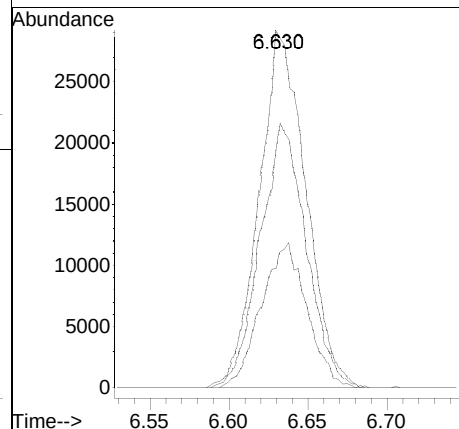
Tgt Ion:	93	Resp:	20727
Ion Ratio	Lower	Upper	
93	100		
95	82.7	66.7	100.1
174	86.8	67.9	101.9

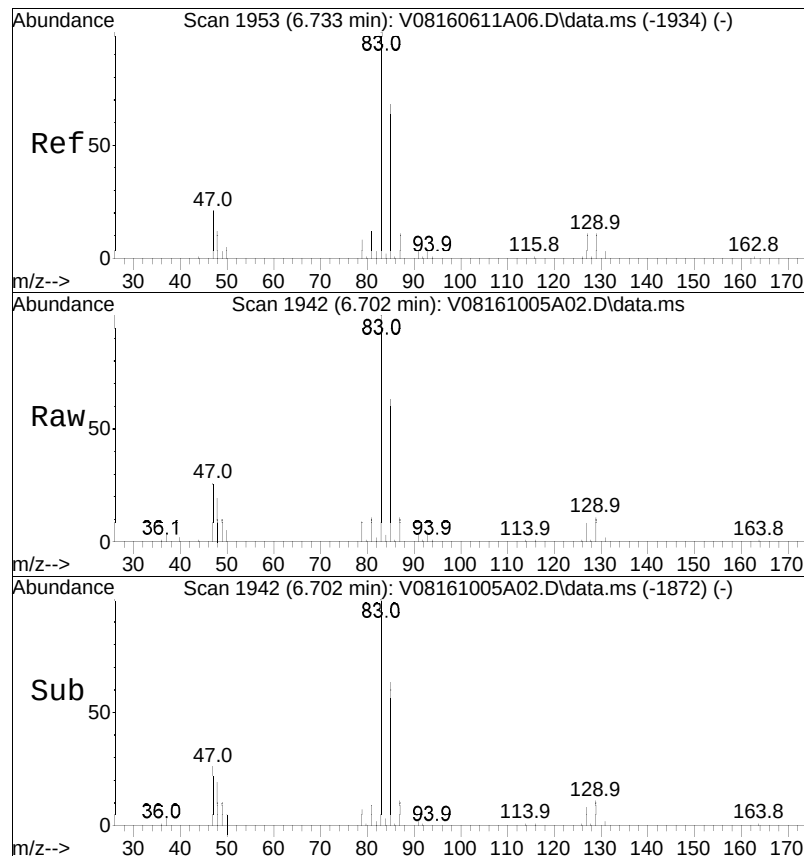




#51
 1,2-Dichloropropane
 Concen: 9.37 ug/L
 RT: 6.630 min Scan# 1916
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

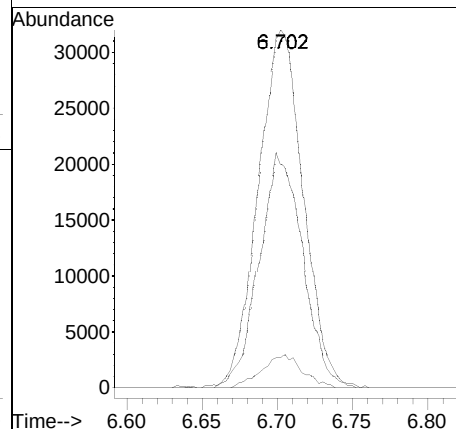
Tgt	Ion: 63	Resp:	59517
Ion	Ratio	Lower	Upper
63	100		
62	72.9	57.8	86.6
76	40.0	28.0	42.0

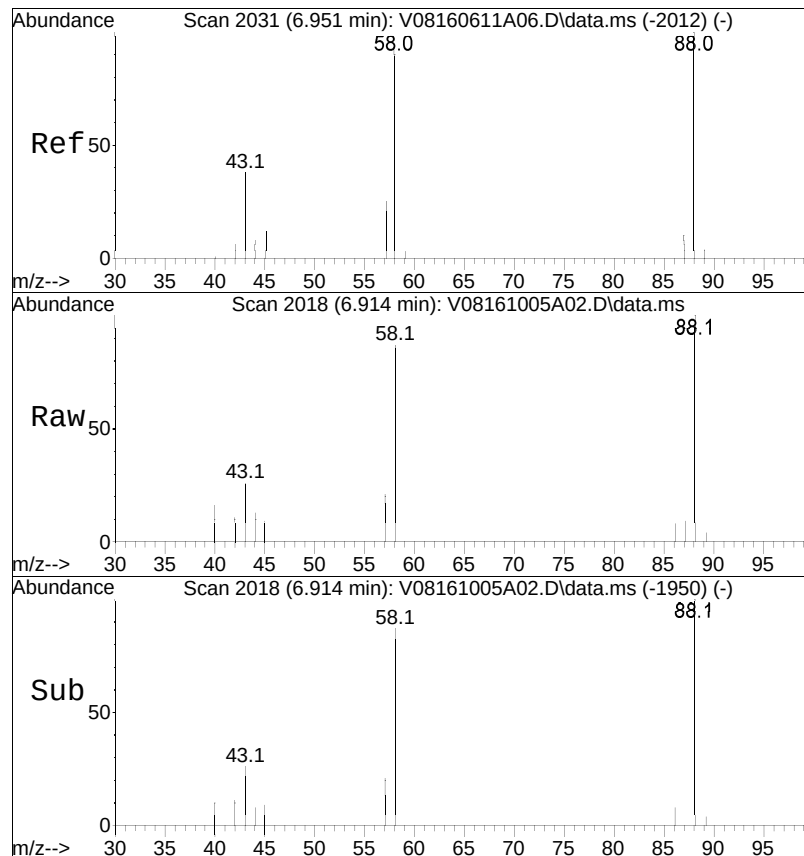




#54
 Bromodichloromethane
 Concen: 9.84 ug/L
 RT: 6.702 min Scan# 1942
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

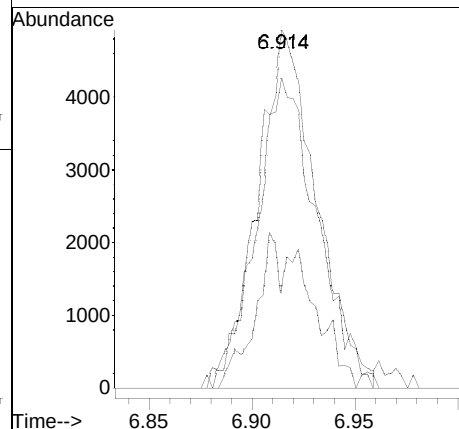
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	66171		
85	63.4		51.5	77.3
127	8.3		4.2	6.4#

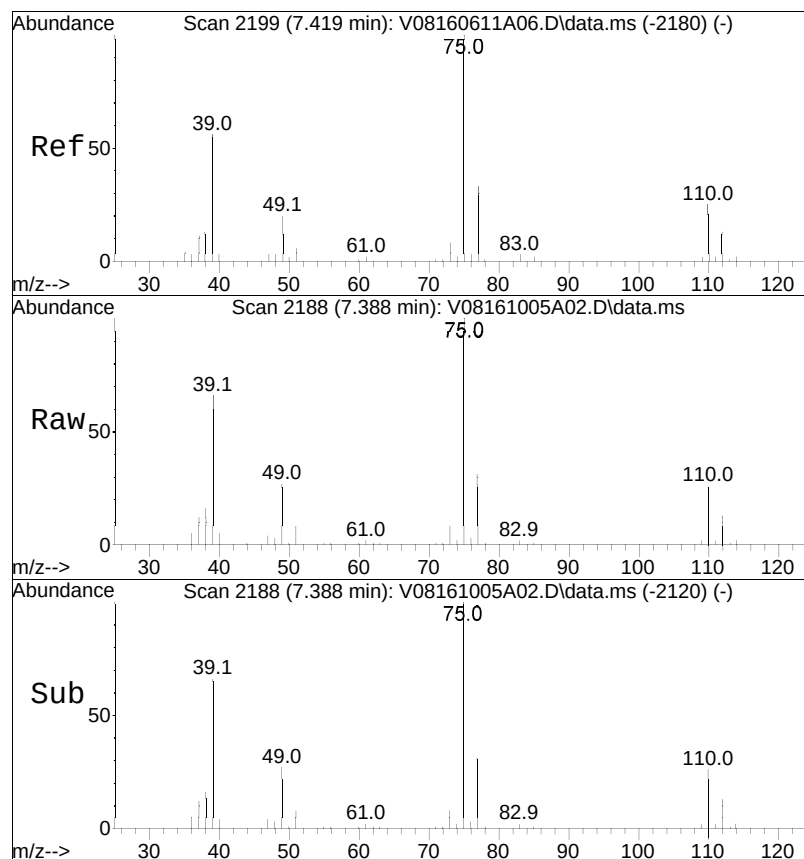




#57
 1,4-Dioxane
 Concen: 477.27 ug/L
 RT: 6.914 min Scan# 2018
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

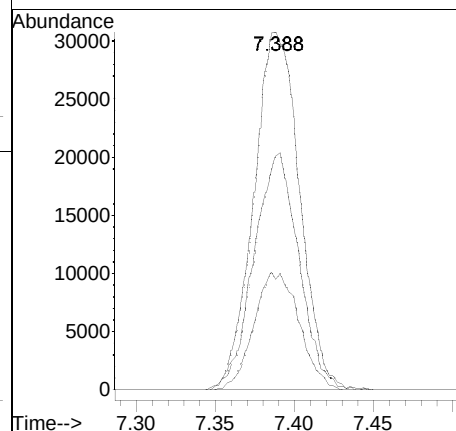
Tgt Ion:	88	Resp:	9804
Ion Ratio	Lower	Upper	
88	100		
58	88.8	70.8	106.2
43	18.2	29.3	43.9#

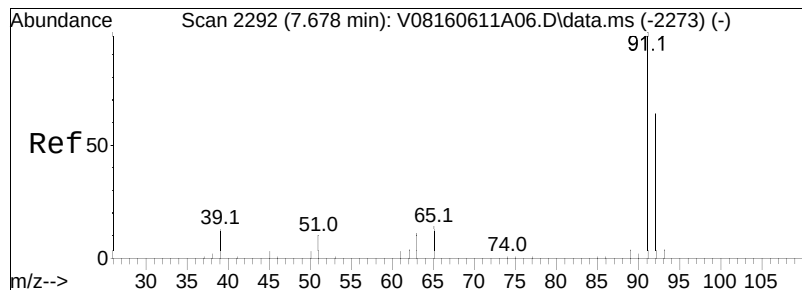




#58
 cis-1,3-Dichloropropene
 Concen: 8.51 ug/L
 RT: 7.388 min Scan# 2188
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

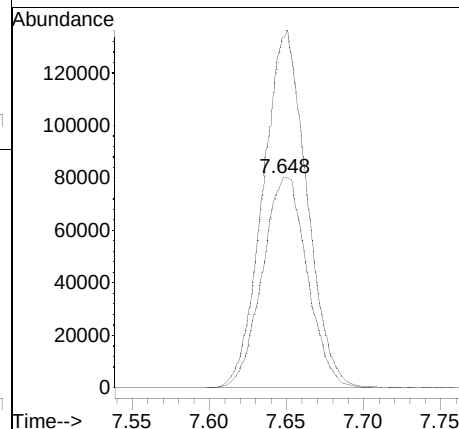
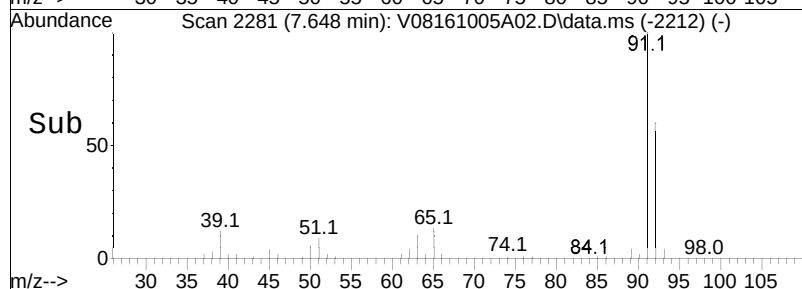
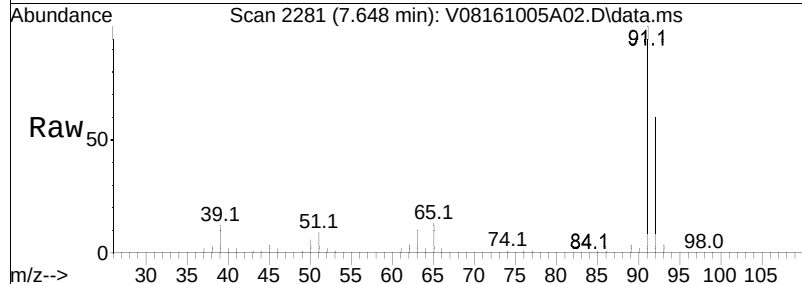
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.6	37.0
39	64.7	48.9	73.3

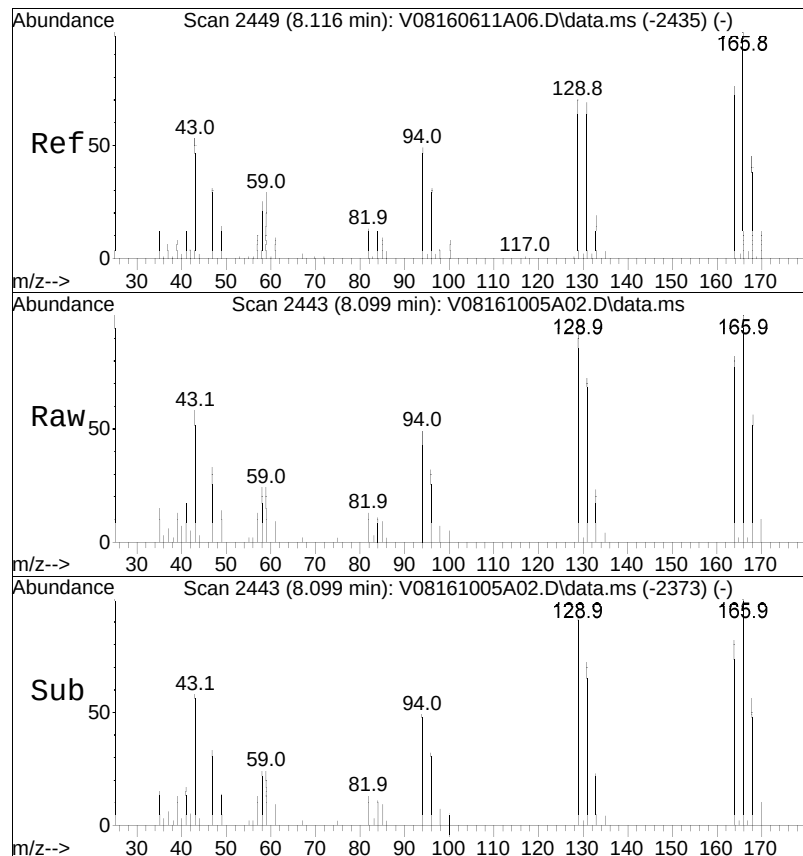




#61
Toluene
Concen: 11.07 ug/L
RT: 7.648 min Scan# 2281
Delta R.T. -0.008 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

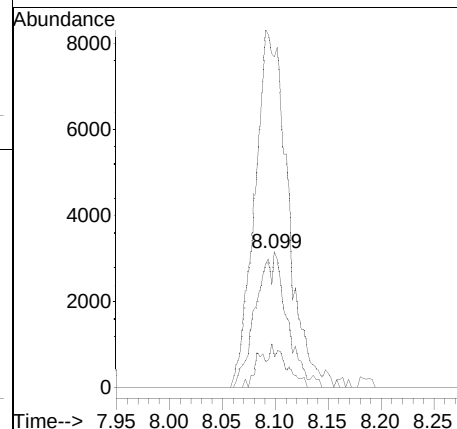
Tgt Ion: 92 Resp: 161135
Ion Ratio Lower Upper
92 100
91 165.2 132.6 198.8

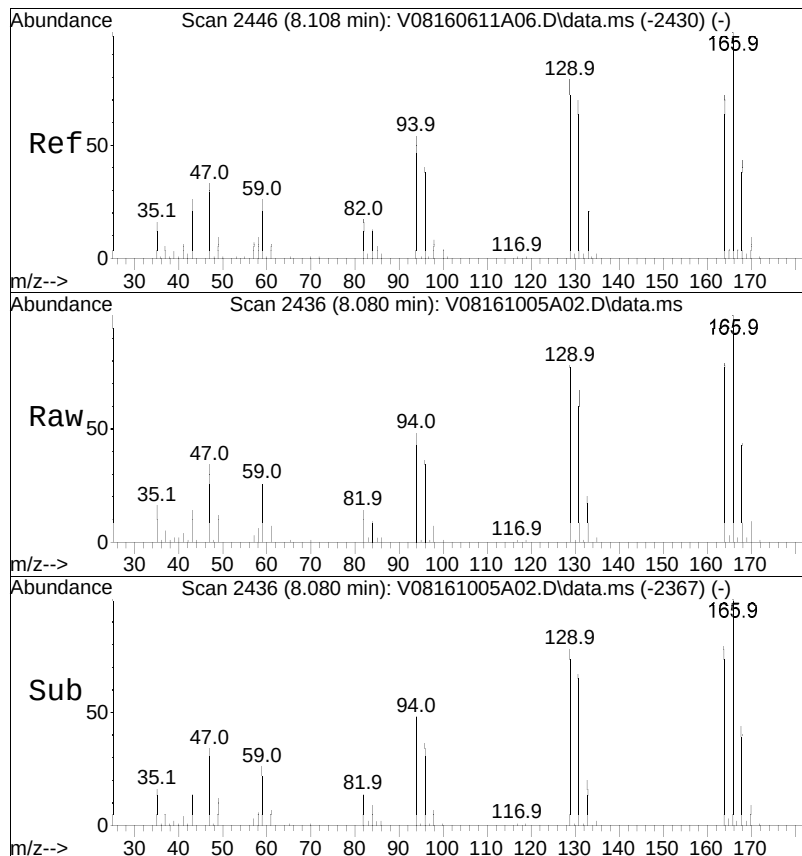




#62
 4-Methyl-2-pentanone
 Concen: 7.43 ug/L M1
 RT: 8.099 min Scan# 2443
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

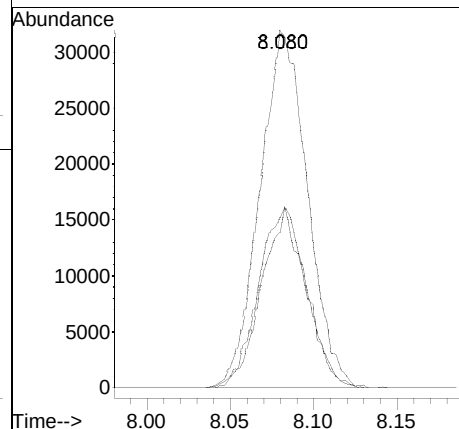
Tgt Ion:	58	Resp:	6501
Ion Ratio	Lower	Upper	
58	100		
100	17.7	21.5	32.3#
43	273.5	204.0	306.0

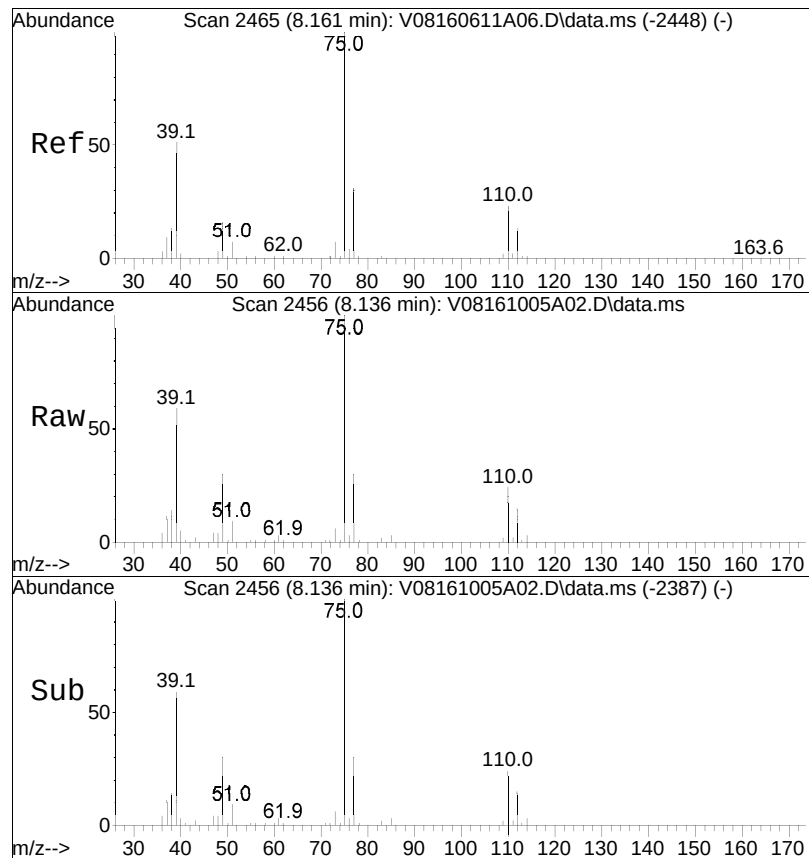




#63
Tetrachloroethene
Concen: 10.36 ug/L
RT: 8.080 min Scan# 2436
Delta R.T. -0.008 min
Lab File: V08161005A02.D
Acq: 5 Oct 2016 9:56 am

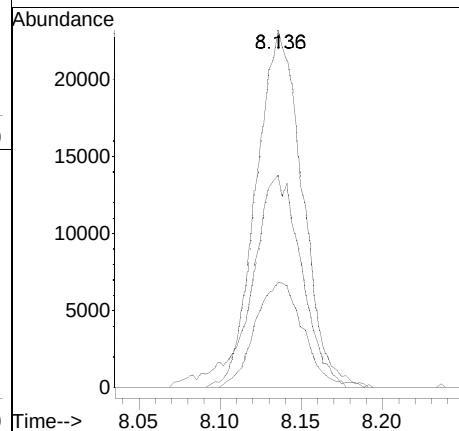
Tgt Ion:	166	Resp:	63088
Ion Ratio	Lower	Upper	
166	100		
168	47.0	28.7	68.7
94	51.3	32.1	72.1

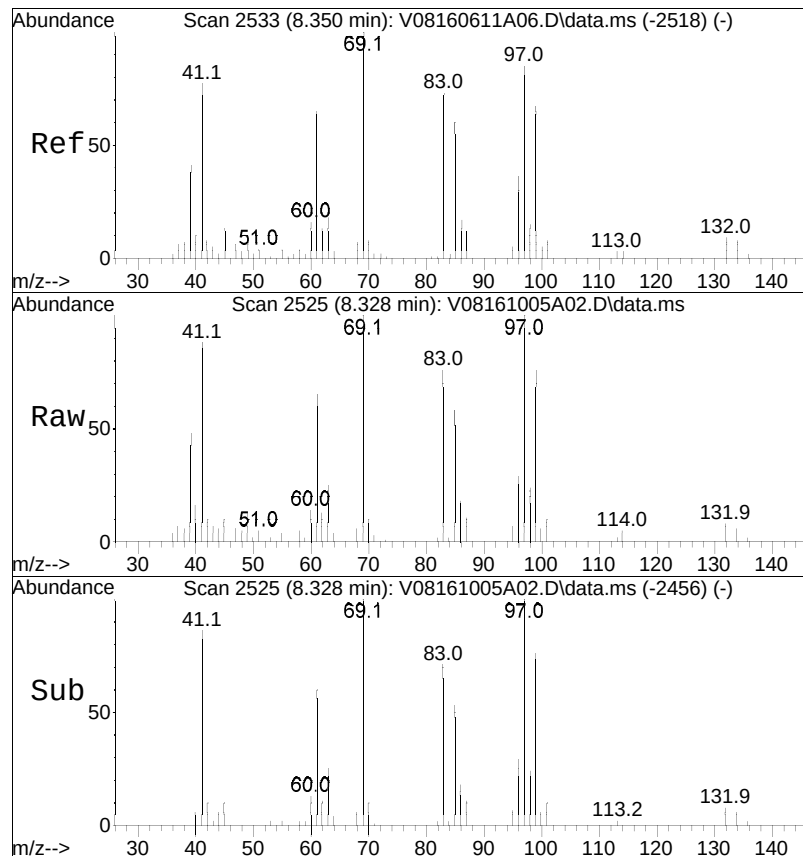




#65
 trans-1,3-Dichloropropene
 Concen: 9.35 ug/L
 RT: 8.136 min Scan# 2456
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

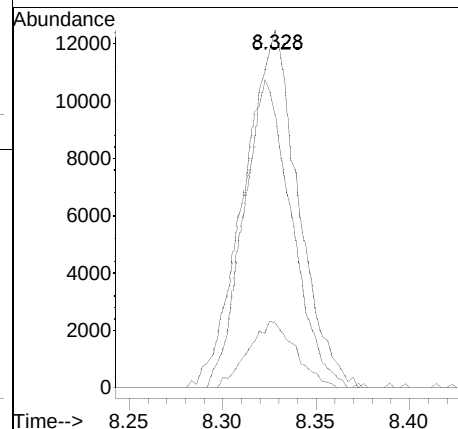
Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.6	12.1	52.1
39	64.7	45.2	85.2

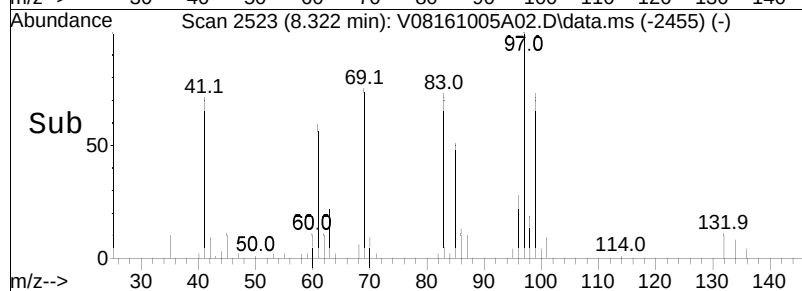
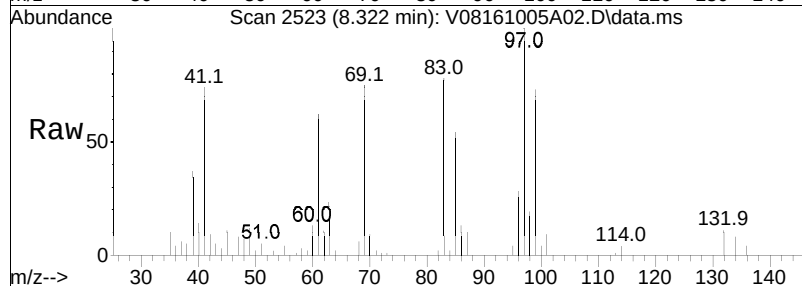
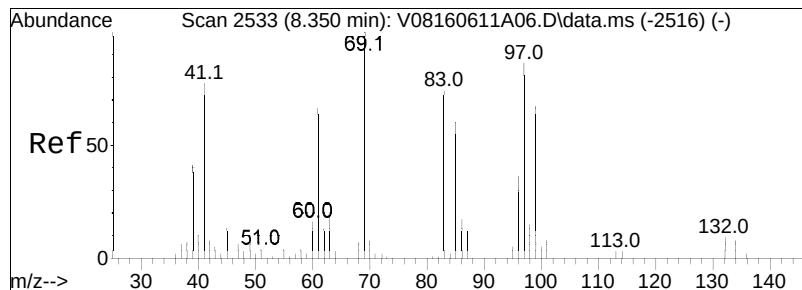




#67
 Ethyl methacrylate
 Concen: 7.24 ug/L
 RT: 8.328 min Scan# 2525
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

Tgt Ion:	69	Resp:	23647
Ion Ratio	Lower	Upper	
69	100		
99	88.9	55.8	95.8
86	17.4	0.0	36.2





#68

1,1,2-Trichloroethane

Concen: 10.16 ug/L

RT: 8.322 min Scan# 2523

Delta R.T. -0.012 min

Lab File: V08161005A02.D

Acq: 5 Oct 2016 9:56 am

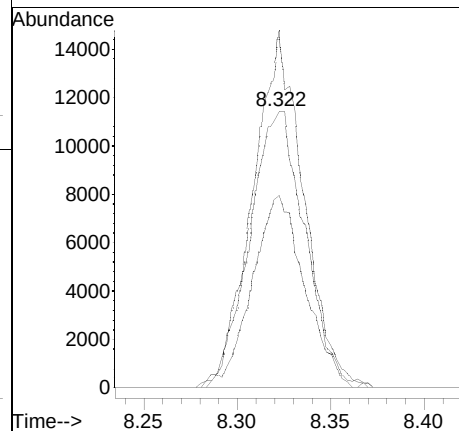
Tgt Ion: 83 Resp: 23418

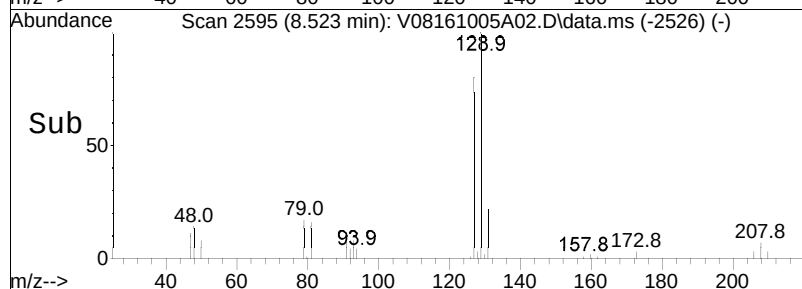
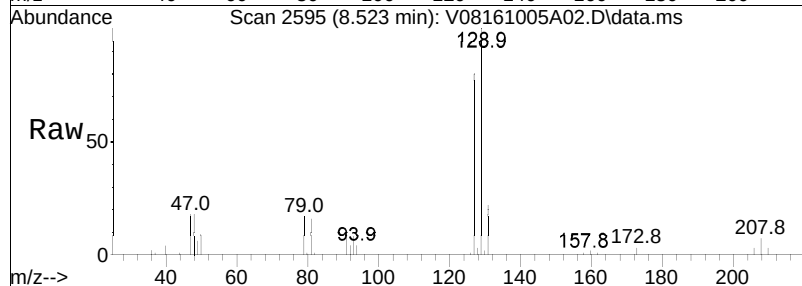
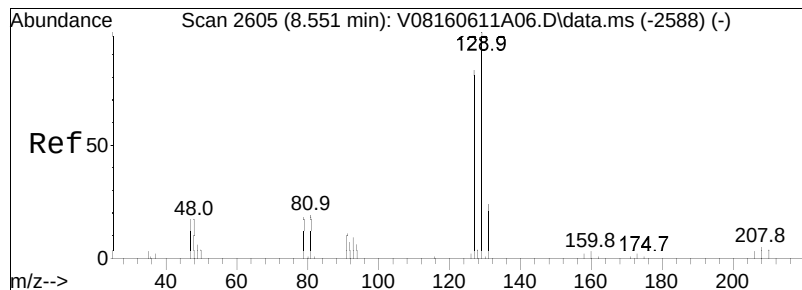
Ion Ratio Lower Upper

83 100

97 118.7 98.1 138.1

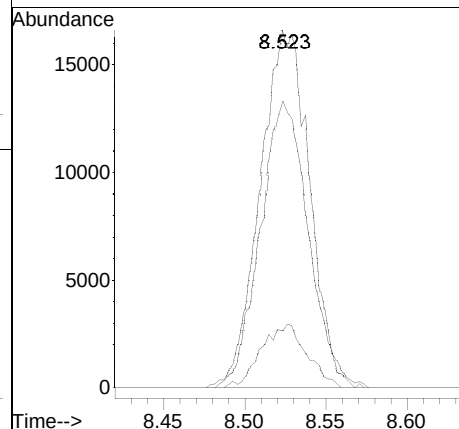
85 66.2 46.0 86.0

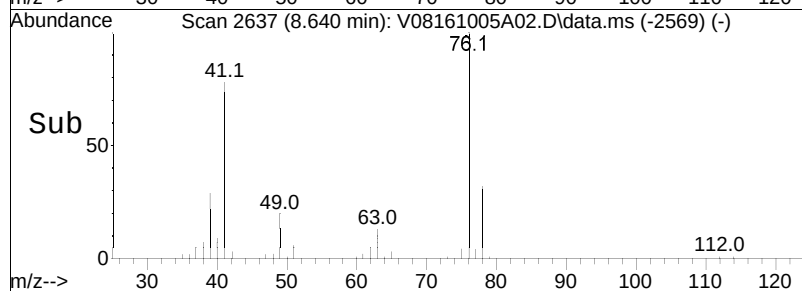
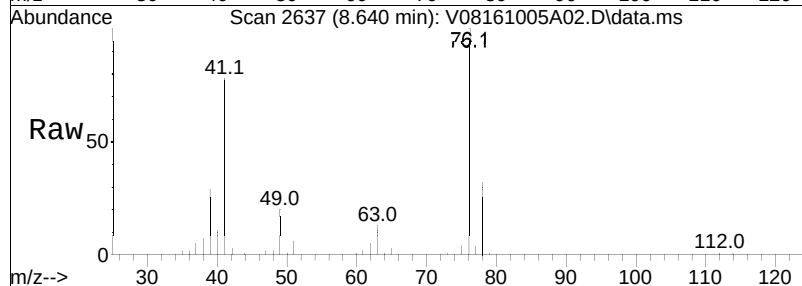
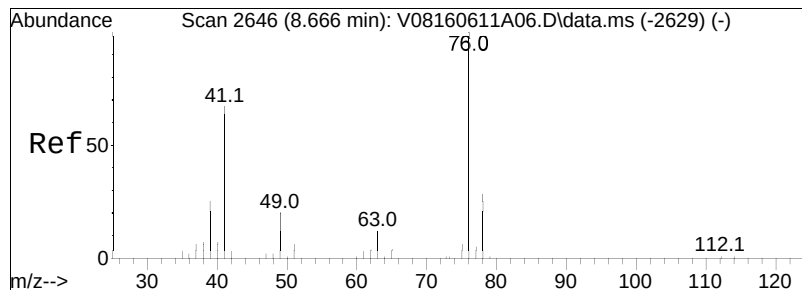




#69
 Chlorodibromomethane
 Concen: 9.83 ug/L
 RT: 8.523 min Scan# 2595
 Delta R.T. -0.009 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

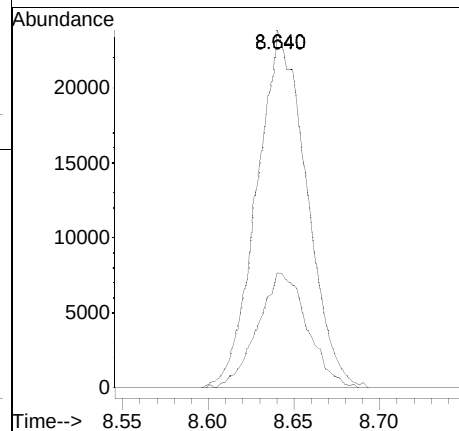
Tgt Ion	Ratio	Lower	Upper
129	100		
81	16.5	0.0	37.5
127	77.2	56.3	96.3

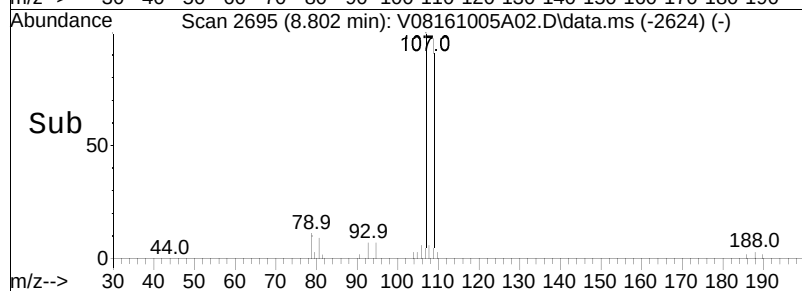
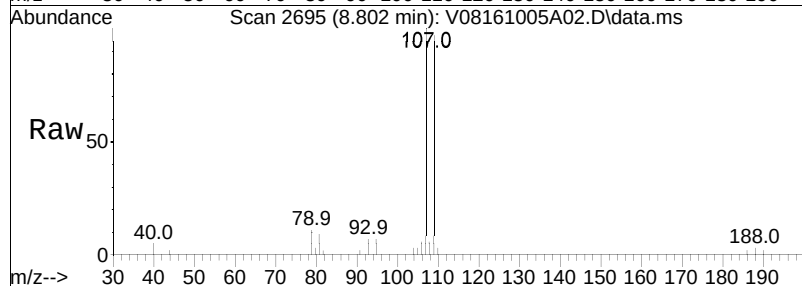
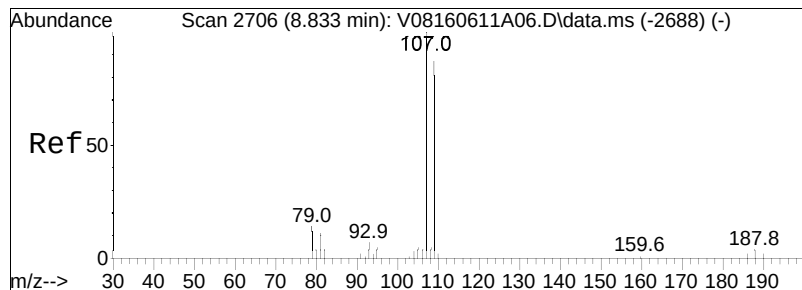




#70
 1,3-Dichloropropane
 Concen: 9.59 ug/L
 RT: 8.640 min Scan# 2637
 Delta R.T. -0.012 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

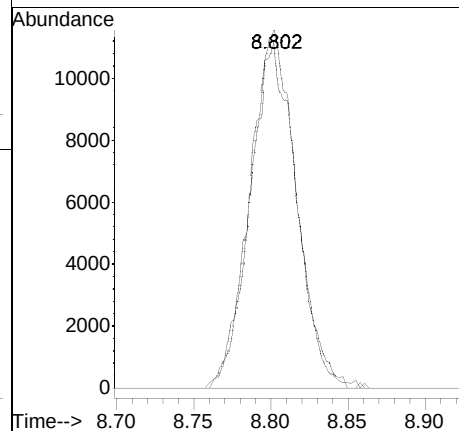
Tgt Ion:	76	78	Ratio	Lower	Upper
Resp:	47768				
Ion Ratio	100	32.2			
		25.9		38.9	

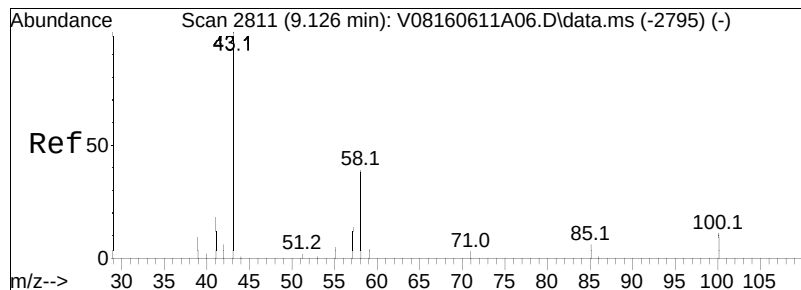




#71
 1,2-Dibromoethane
 Concen: 9.53 ug/L
 RT: 8.802 min Scan# 2695
 Delta R.T. -0.003 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.5	78.1	117.1





#72

2-Hexanone

Concen: 7.15 ug/L M1

RT: 9.103 min Scan# 2803

Delta R.T. -0.006 min

Lab File: V08161005A02.D

Acq: 5 Oct 2016 9:56 am

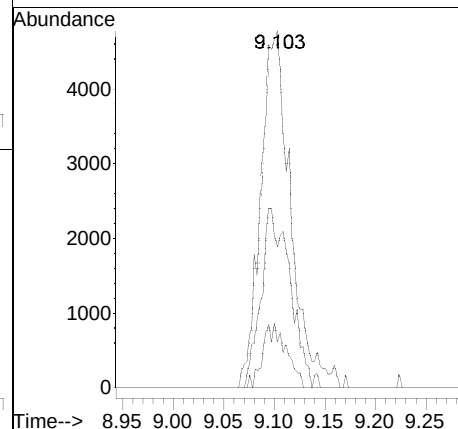
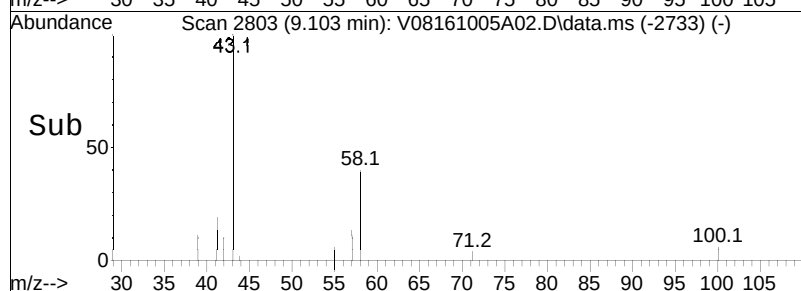
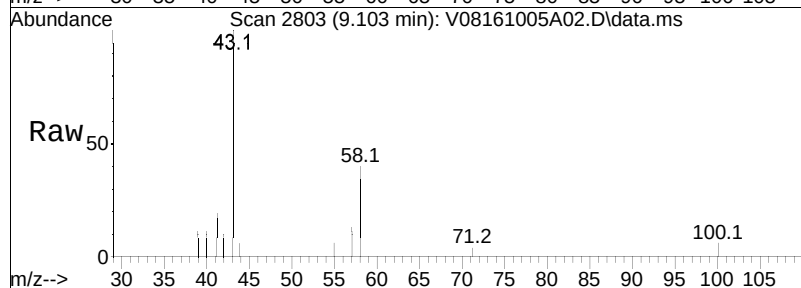
Tgt Ion: 43 Resp: 9736

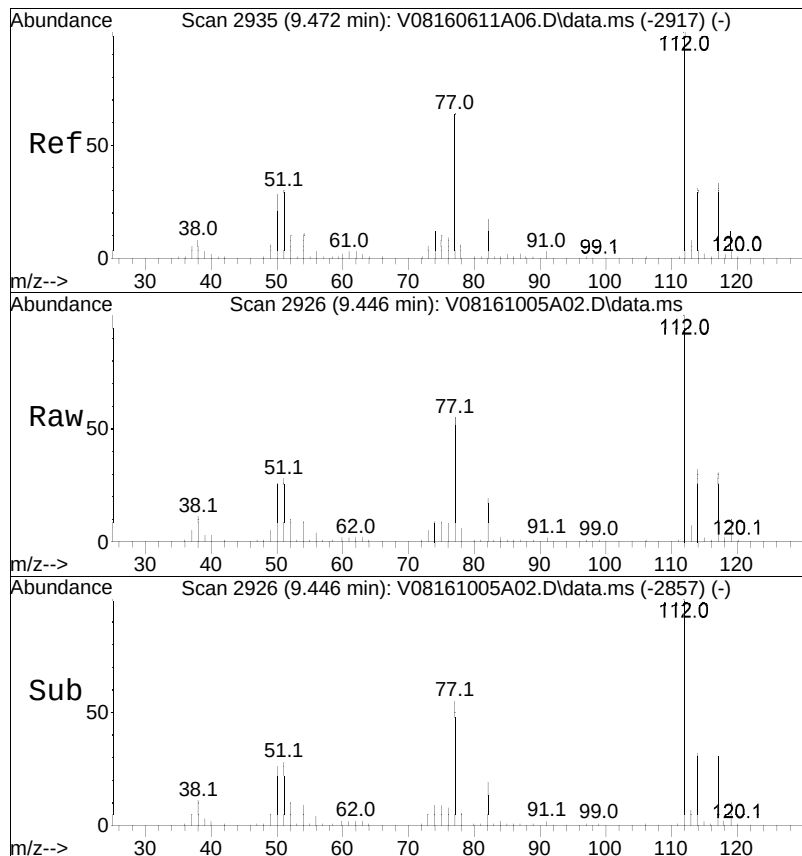
Ion Ratio Lower Upper

43 100

58 27.1 40.6 60.8#

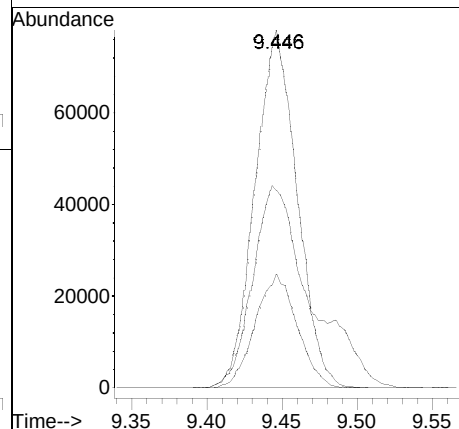
57 6.2 14.7 22.1#

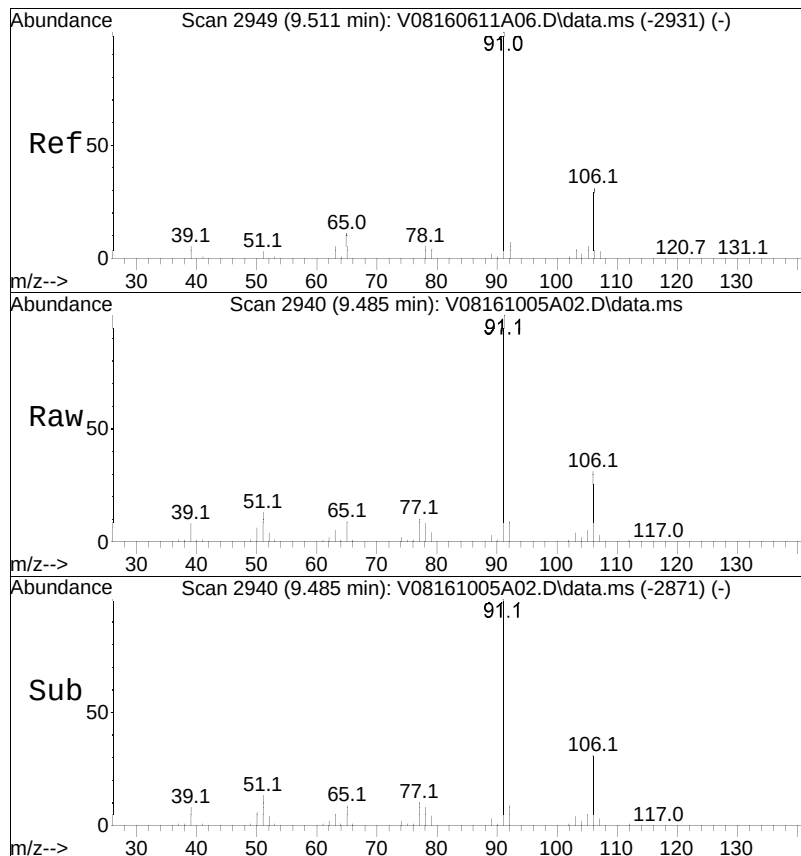




#73
 Chlorobenzene
 Concen: 9.95 ug/L
 RT: 9.446 min Scan# 2926
 Delta R.T. -0.009 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

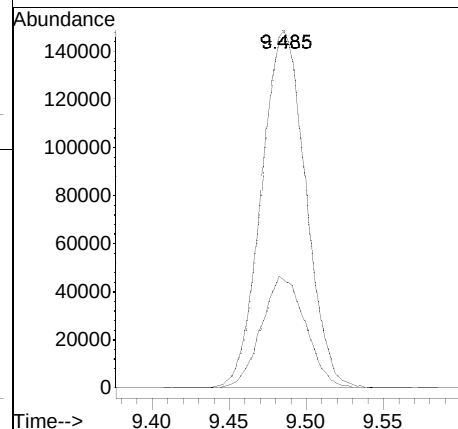
Tgt	Ion	Ratio	Lower	Upper
112	100			
77	77.8	61.0	91.6	
114	32.1	25.5	38.3	

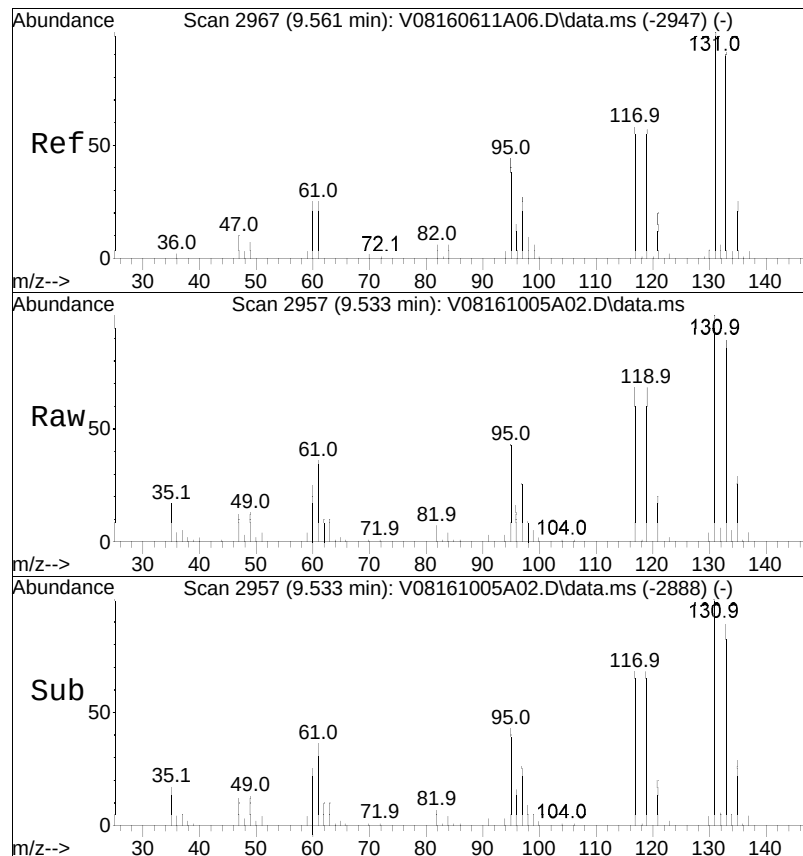




#74
 Ethylbenzene
 Concen: 10.83 ug/L
 RT: 9.485 min Scan# 2940
 Delta R.T. -0.009 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

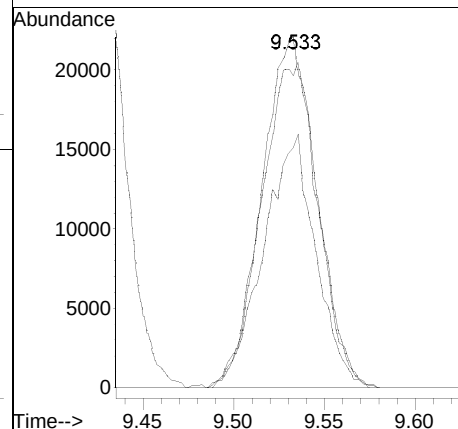
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.2	36.2

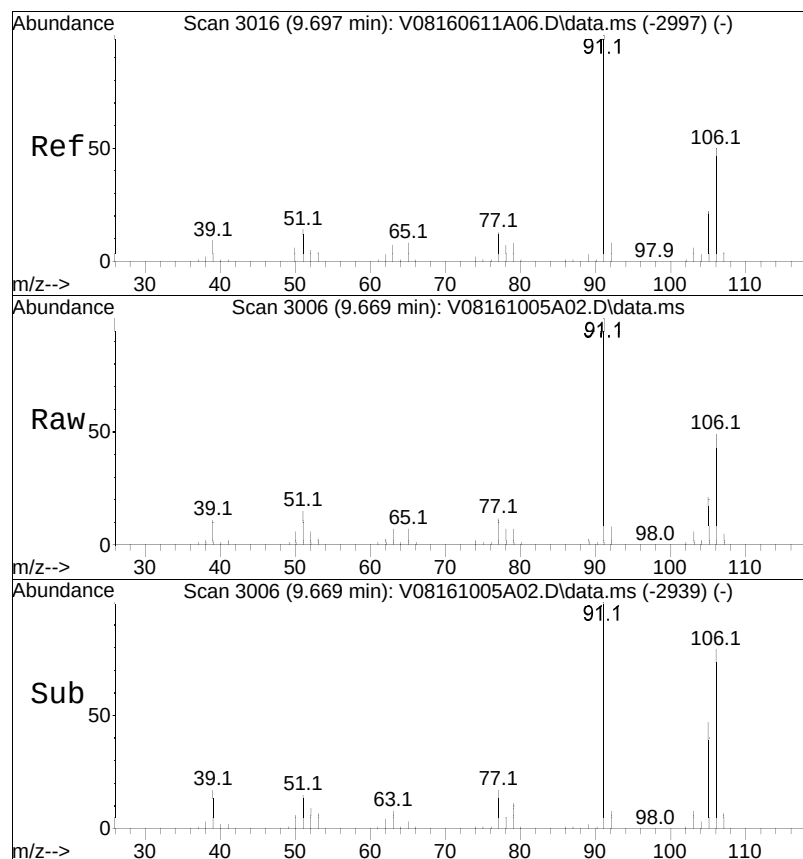




#75
 1,1,1,2-Tetrachloroethane
 Concen: 9.60 ug/L
 RT: 9.533 min Scan# 2957
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

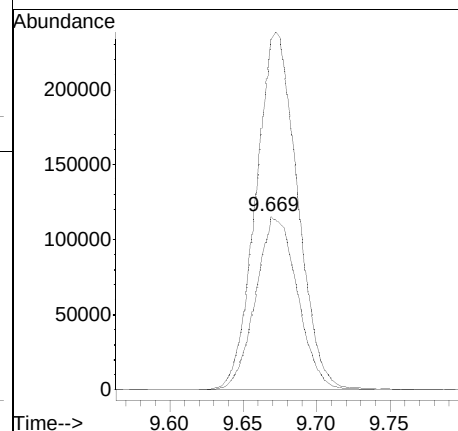
Tgt Ion:	131	Resp:	46856
Ion Ratio	Lower	Upper	
131	100		
133	94.6	76.8	116.8
119	68.4	44.9	84.9

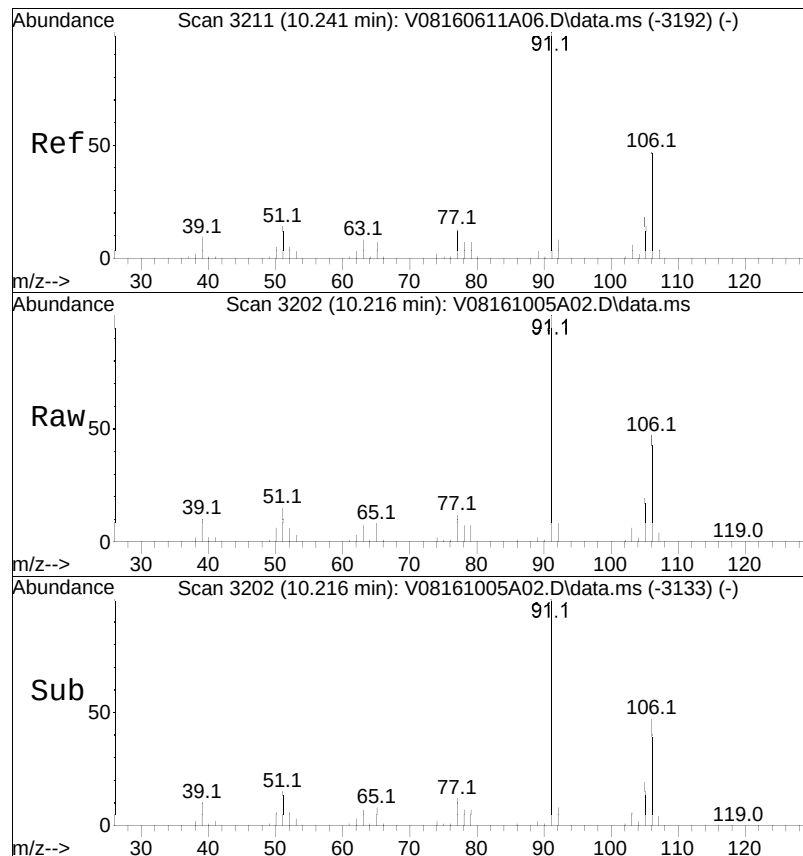




#76
 p/m Xylene
 Concen: 21.28 ug/L
 RT: 9.669 min Scan# 3006
 Delta R.T. -0.014 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

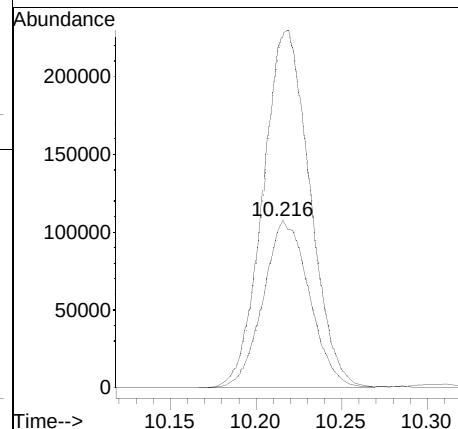
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	204.3	167.8	251.6	

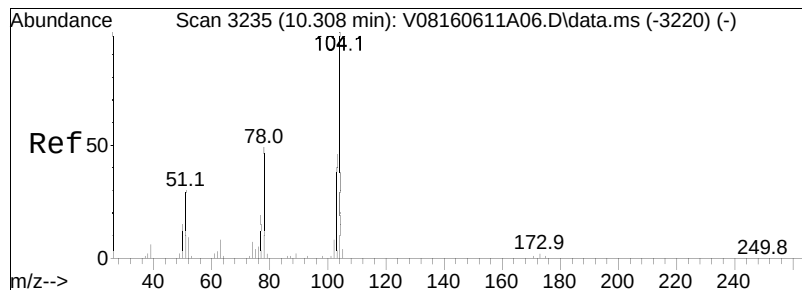




#77
 o Xylene
 Concen: 20.90 ug/L
 RT: 10.216 min Scan# 3202
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

Tgt Ion	106	91	Ratio	Lower	Upper
Resp:	200623				
106	100				
91	216.2			176.2	264.4





#78

Styrene

Concen: 21.10 ug/L

RT: 10.288 min Scan# 3228

Delta R.T. -0.006 min

Lab File: V08161005A02.D

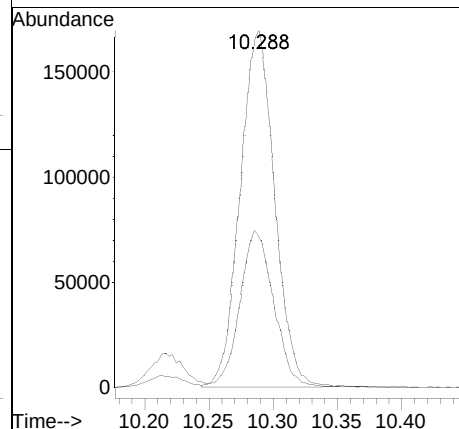
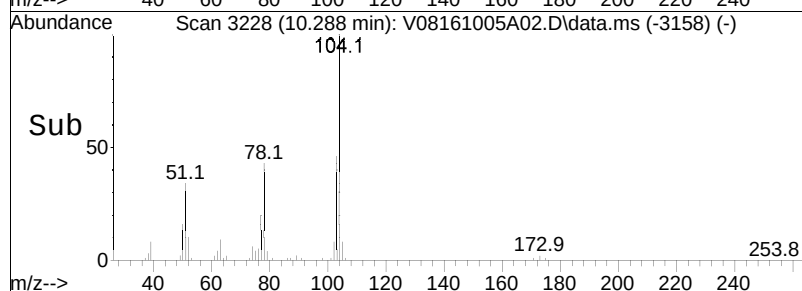
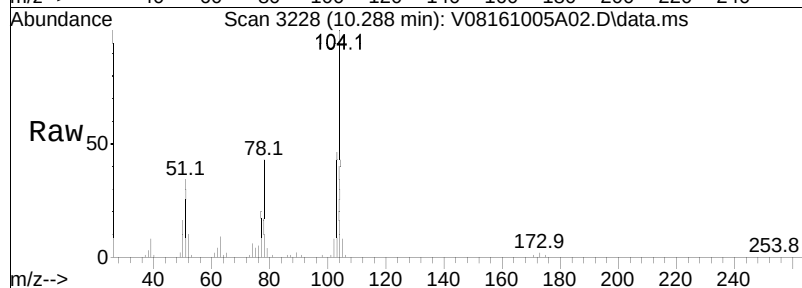
Acq: 5 Oct 2016 9:56 am

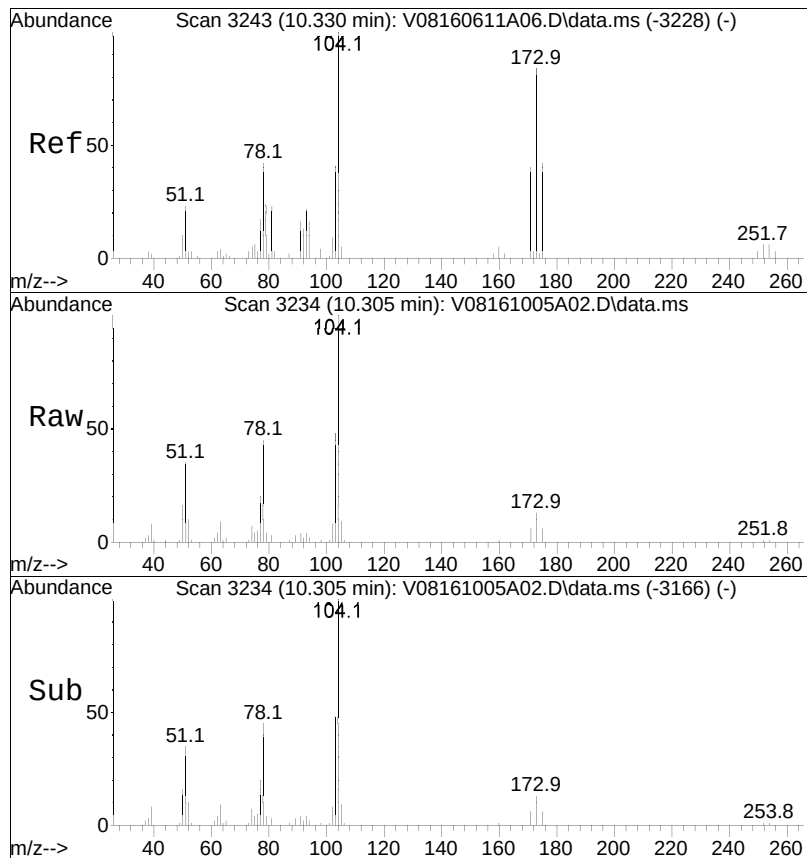
Tgt Ion:104 Resp: 315418

Ion Ratio Lower Upper

104 100

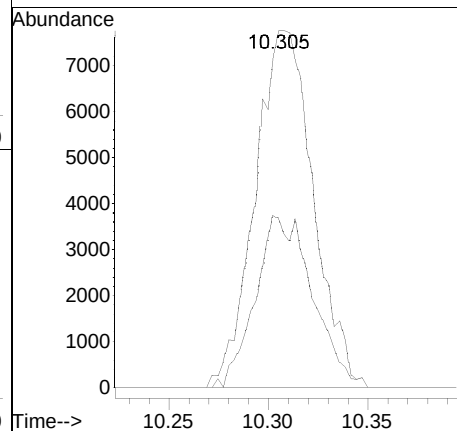
78 42.8 36.0 54.0

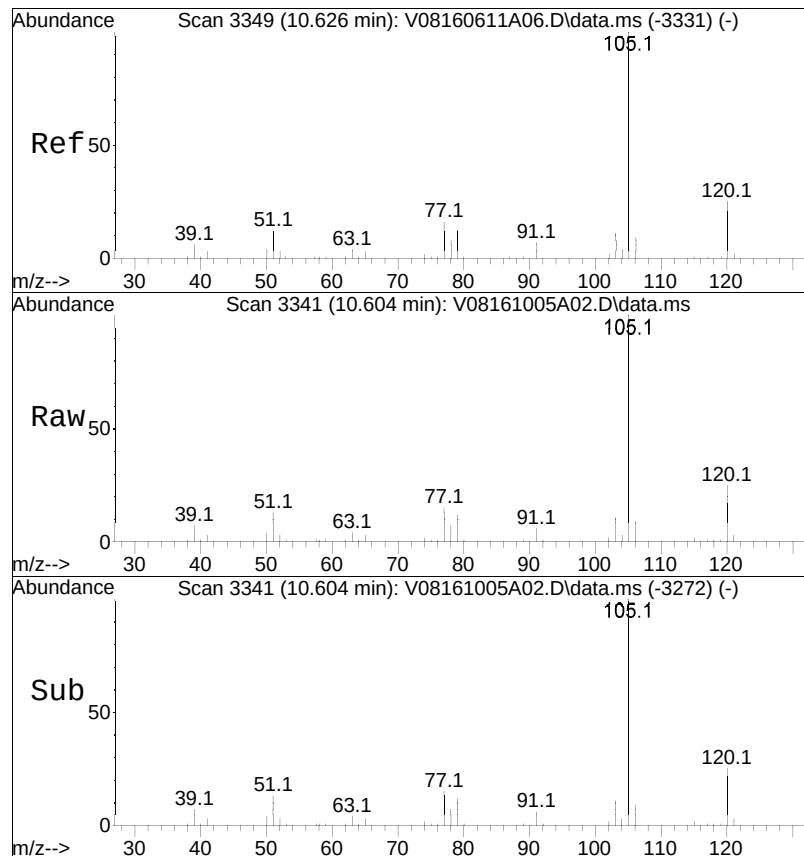




#80
 Bromoform
 Concen: 10.22 ug/L
 RT: 10.305 min Scan# 3234
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

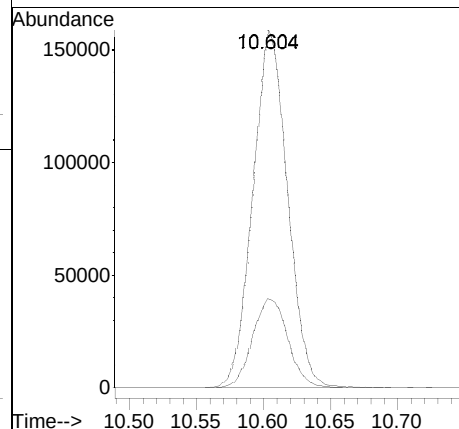
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.3	27.7	67.7

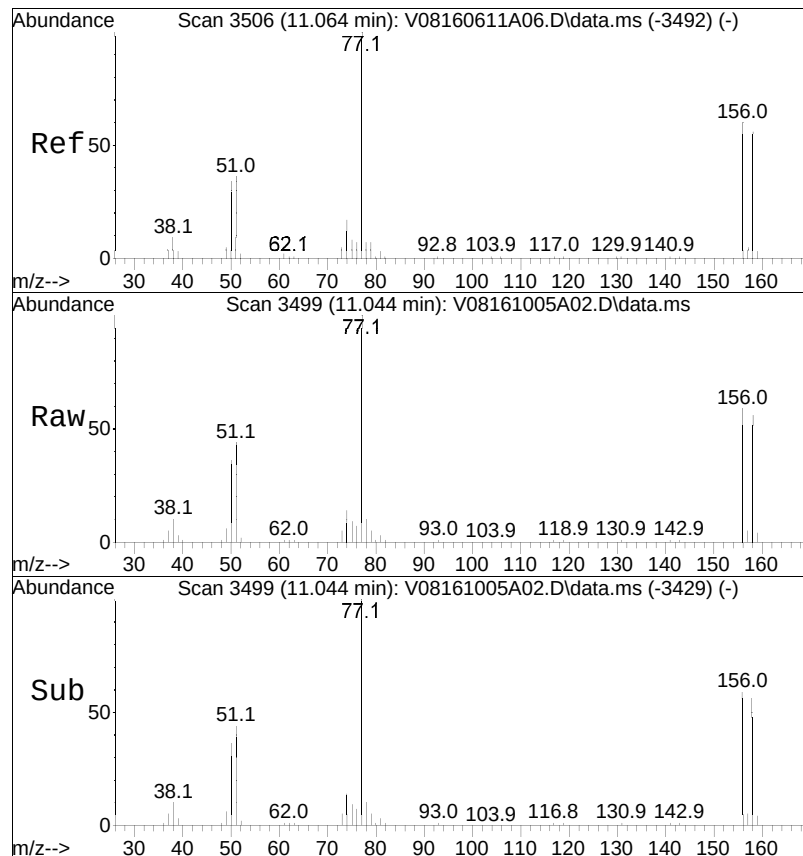




#82
 Isopropylbenzene
 Concen: 11.22 ug/L
 RT: 10.604 min Scan# 3341
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

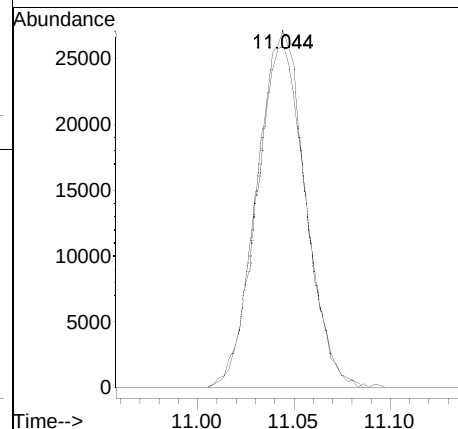
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	6.7	46.7

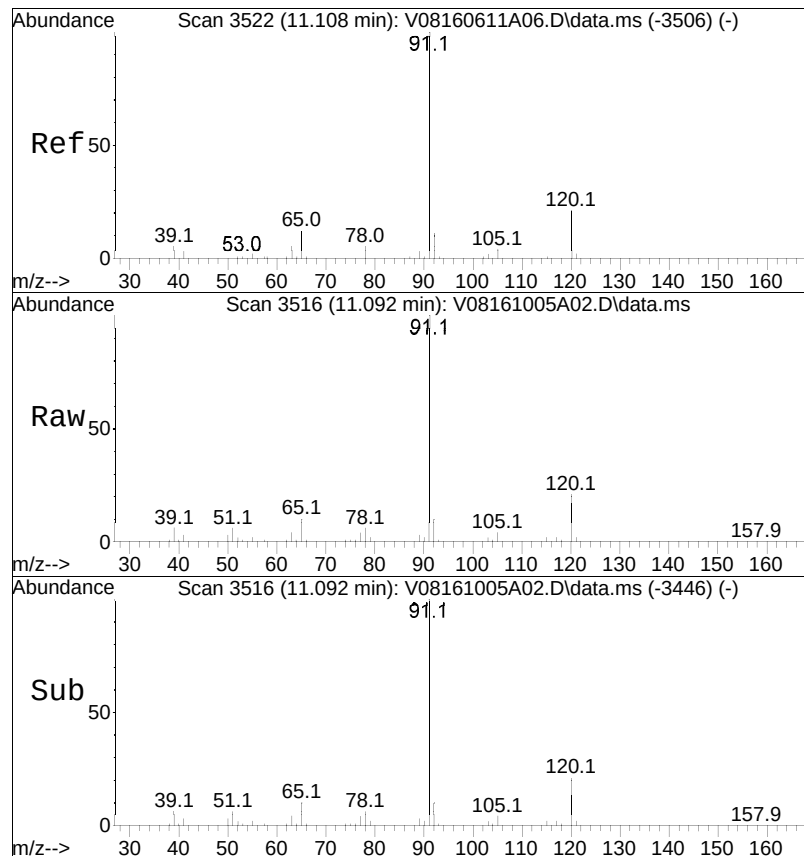




#84
 Bromobenzene
 Concen: 10.04 ug/L
 RT: 11.044 min Scan# 3499
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

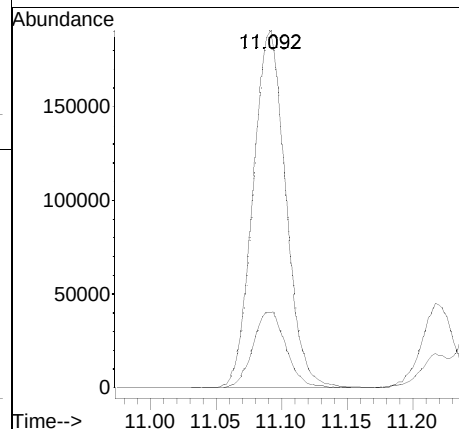
Tgt Ion	Ratio	Lower	Upper
156	100		
158	96.7	78.0	117.0

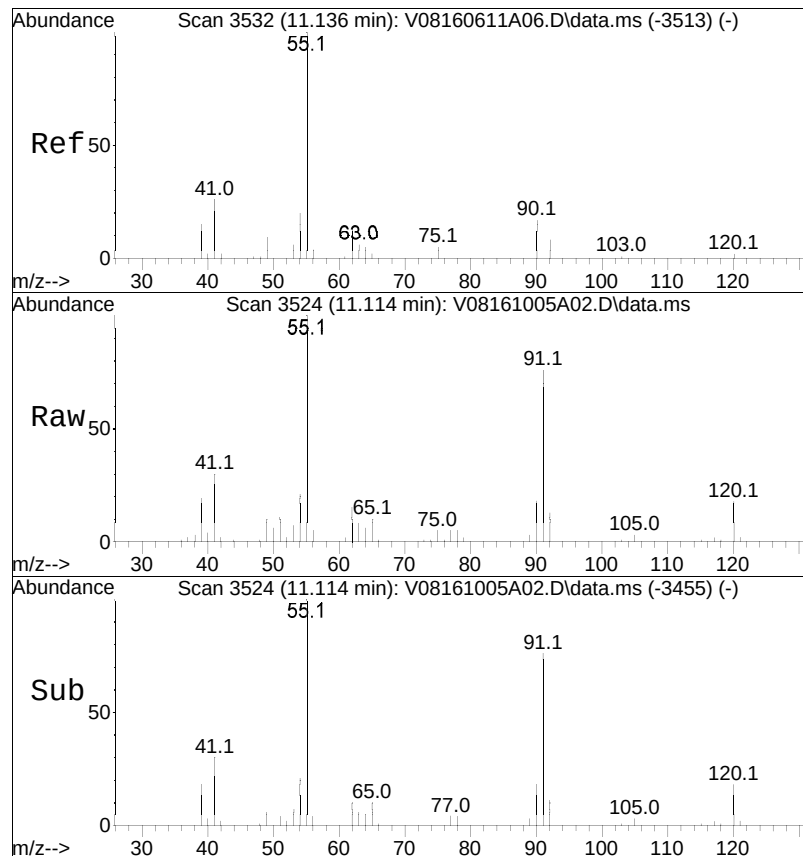




#85
 n-Propylbenzene
 Concen: 11.46 ug/L
 RT: 11.092 min Scan# 3516
 Delta R.T. -0.005 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

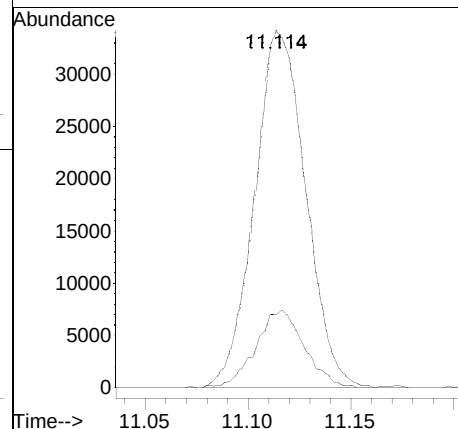
Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	17.2	25.8

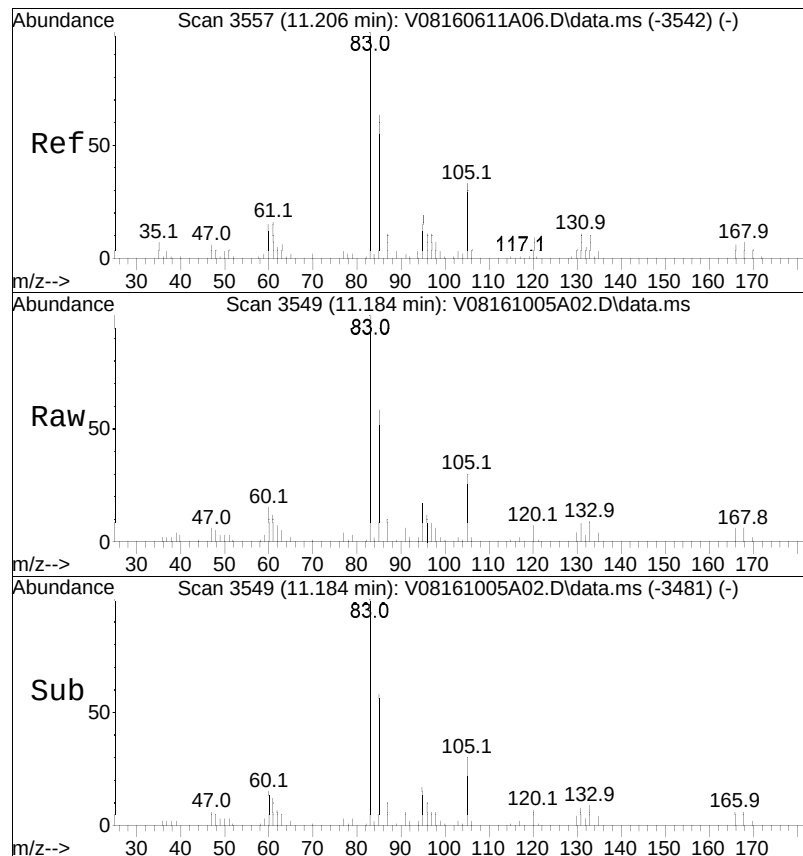




#86
 1,4-Dichlorobutane
 Concen: 10.61 ug/L
 RT: 11.114 min Scan# 3524
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

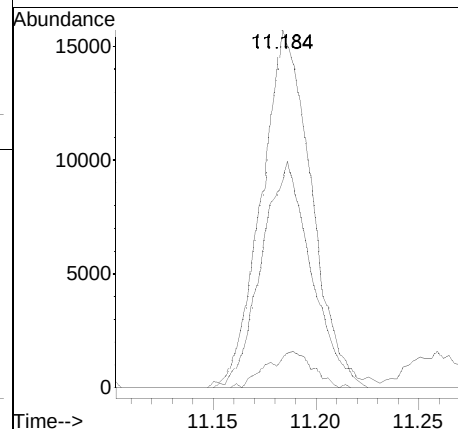
Tgt Ion	Ratio	Lower	Upper
55	100		
54	20.8	15.8	23.8

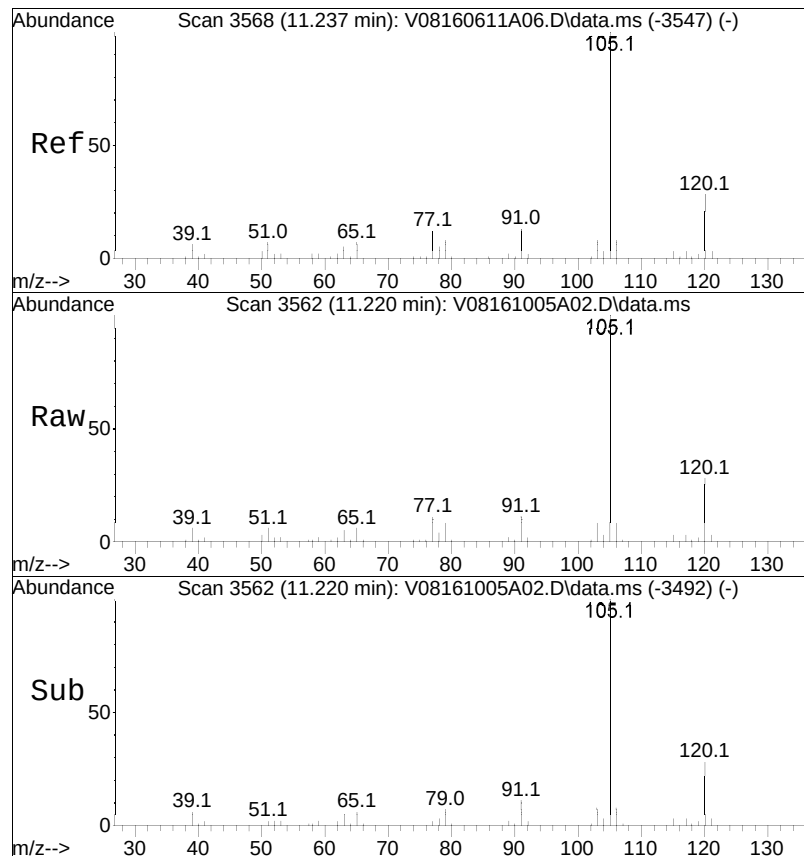




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.56 ug/L
 RT: 11.184 min Scan# 3549
 Delta R.T. -0.011 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

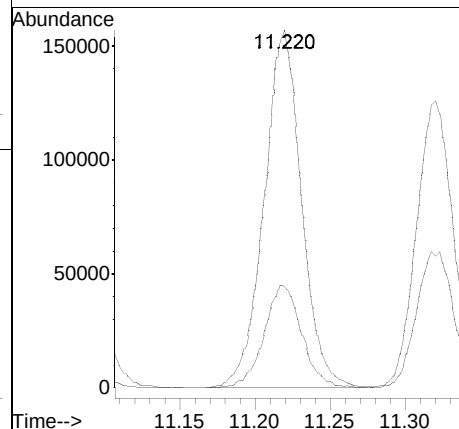
Tgt Ion:	83	Resp:	26264
Ion Ratio	Lower	Upper	
83	100		
131	9.6	0.0	28.9
85	64.6	47.6	87.6

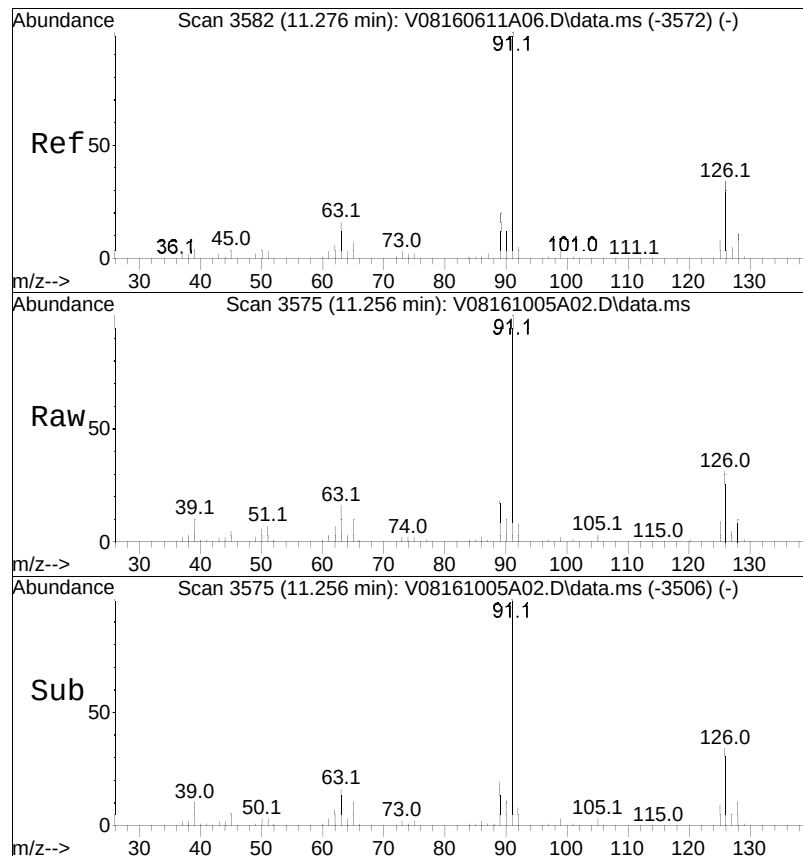




#88
 4-Ethyltoluene
 Concen: 11.44 ug/L
 RT: 11.220 min Scan# 3562
 Delta R.T. -0.005 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

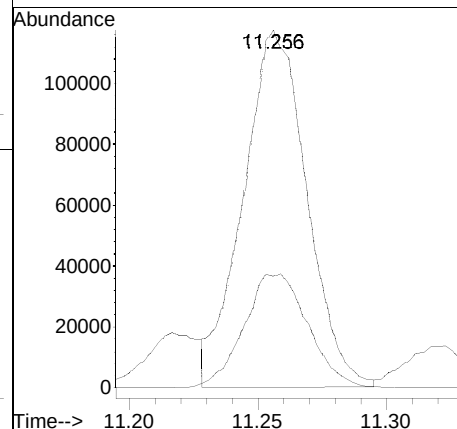
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.9	19.4	40.4

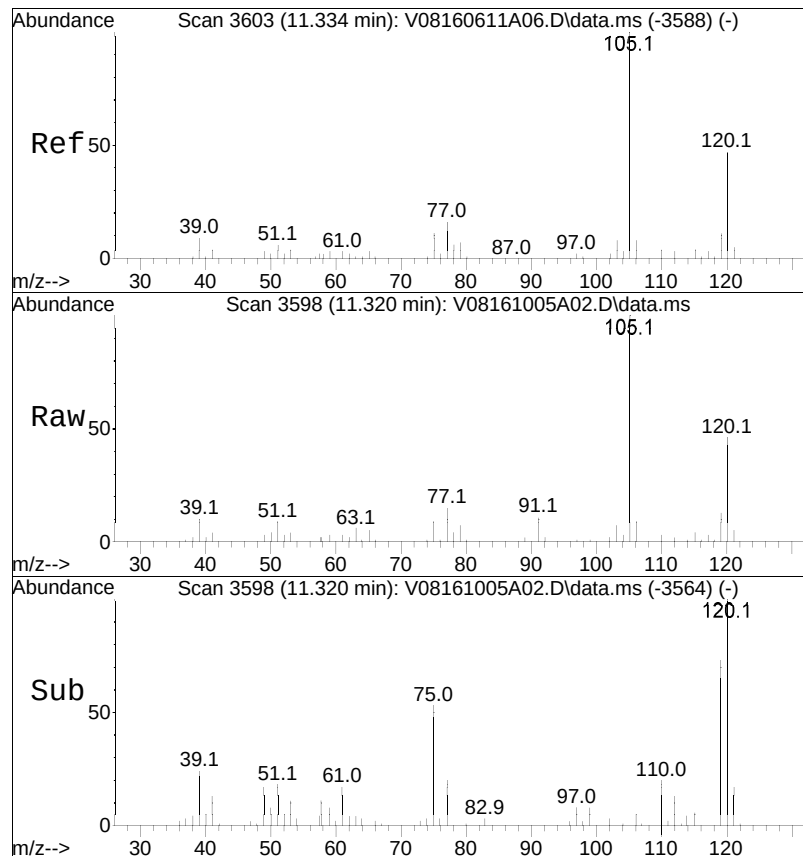




#89
 2-Chlorotoluene
 Concen: 11.70 ug/L
 RT: 11.256 min Scan# 3575
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

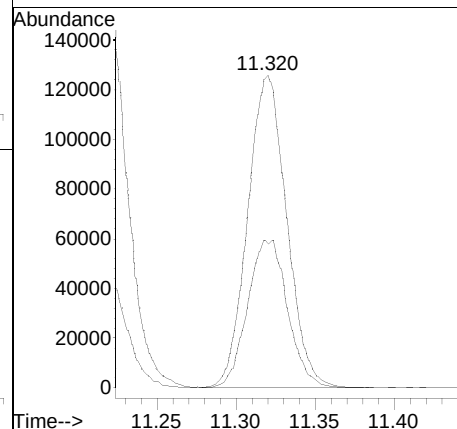
Tgt	Ion	Resp	Lower	Upper
91	100	200547		
126	32.3	25.3	37.9	

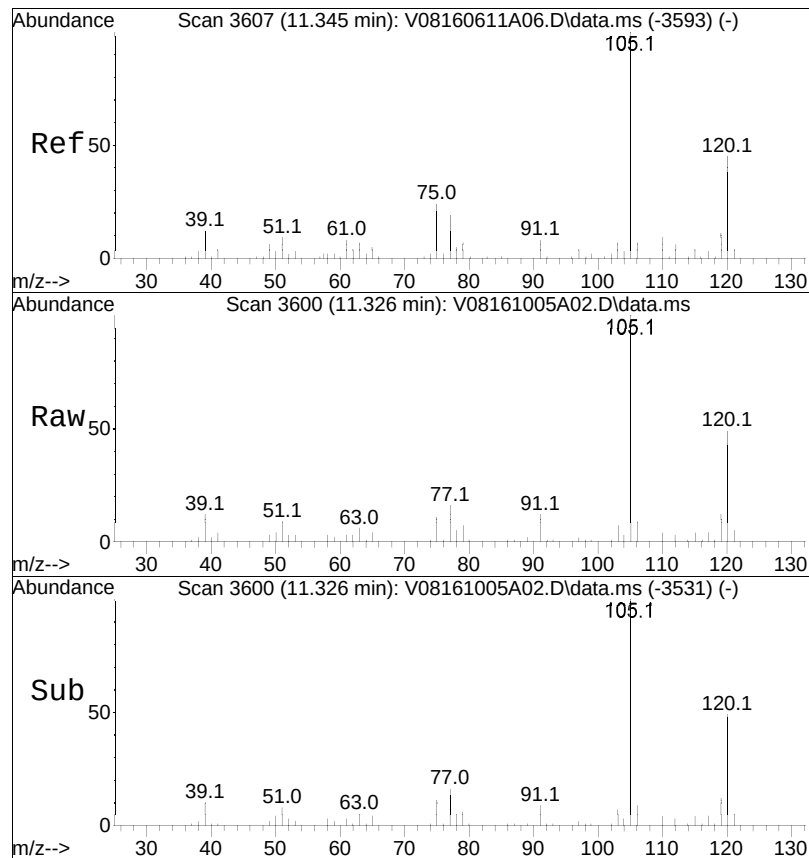




#90
 1,3,5-Trimethylbenzene
 Concen: 11.17 ug/L
 RT: 11.320 min Scan# 3598
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

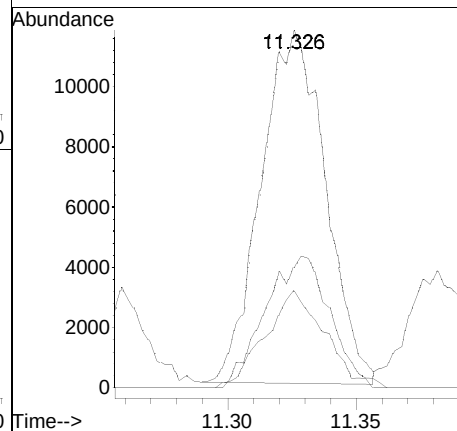
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.5	28.0	42.0

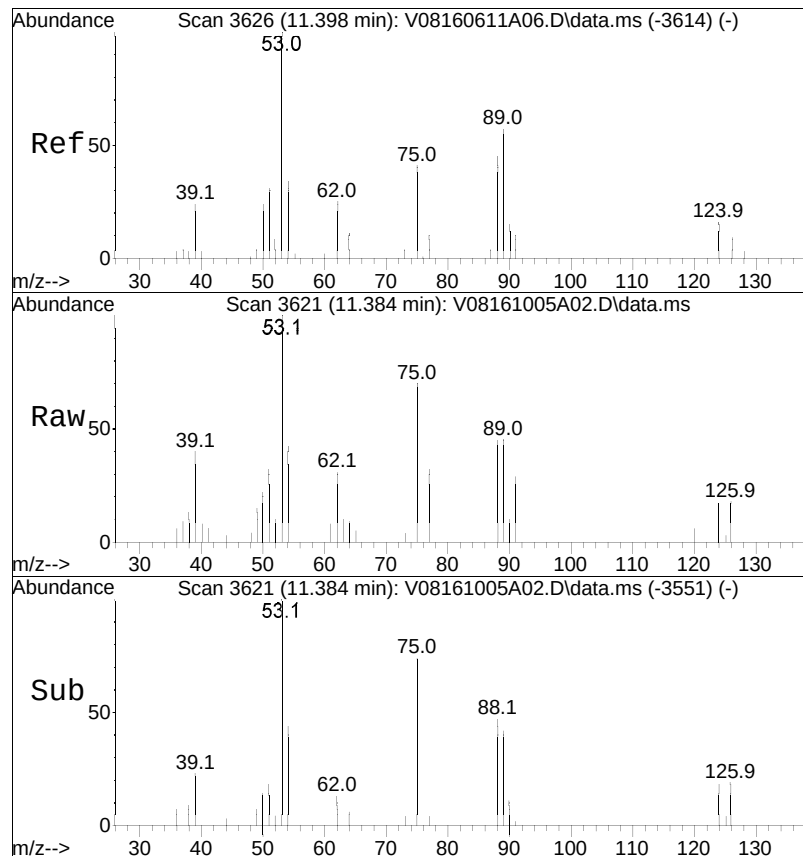




#91
 1,2,3-Trichloropropane
 Concen: 9.95 ug/L
 RT: 11.326 min Scan# 3600
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

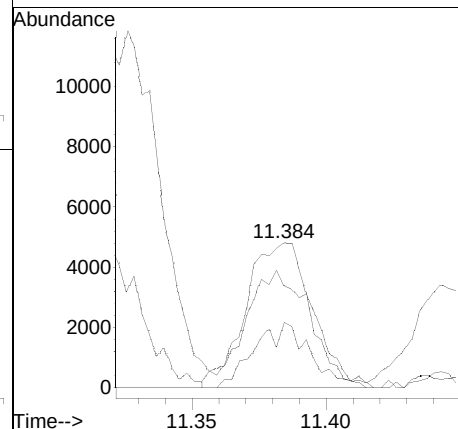
Tgt Ion:	75	Resp:	20272
Ion Ratio	Lower	Upper	
75	100		
110	37.8	23.5	48.7
112	25.3	15.2	31.6

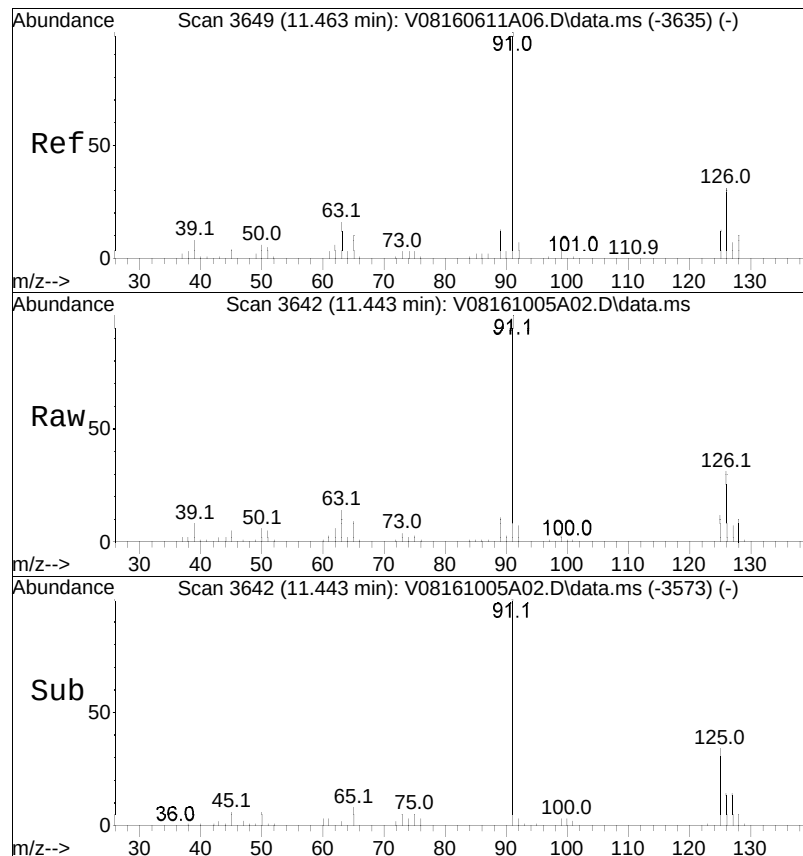




#92
 trans-1,4-Dichloro-2-butene
 Concen: 10.26 ug/L
 RT: 11.384 min Scan# 3621
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

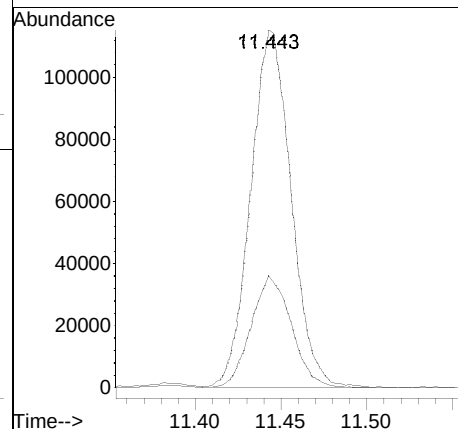
Tgt Ion	Ratio	Lower	Upper
53	100		
88	17.3	25.7	38.5#
75	74.4	63.8	95.8

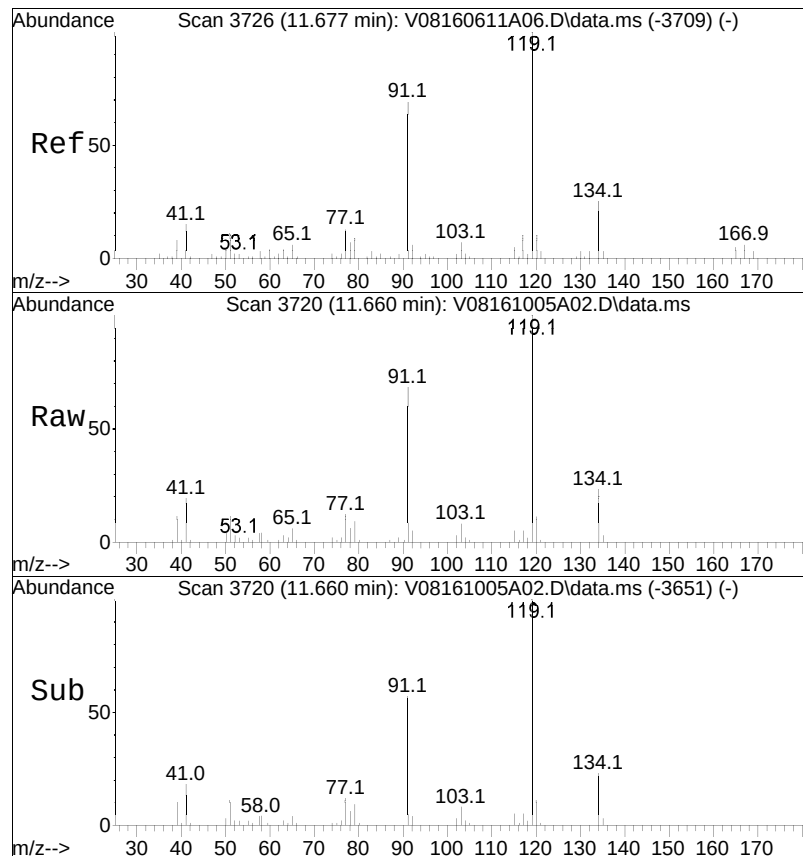




#93
 4-Chlorotoluene
 Concen: 11.38 ug/L
 RT: 11.443 min Scan# 3642
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

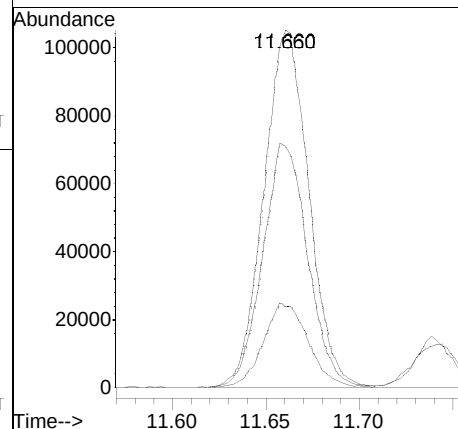
Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.6	0.0	0.0#

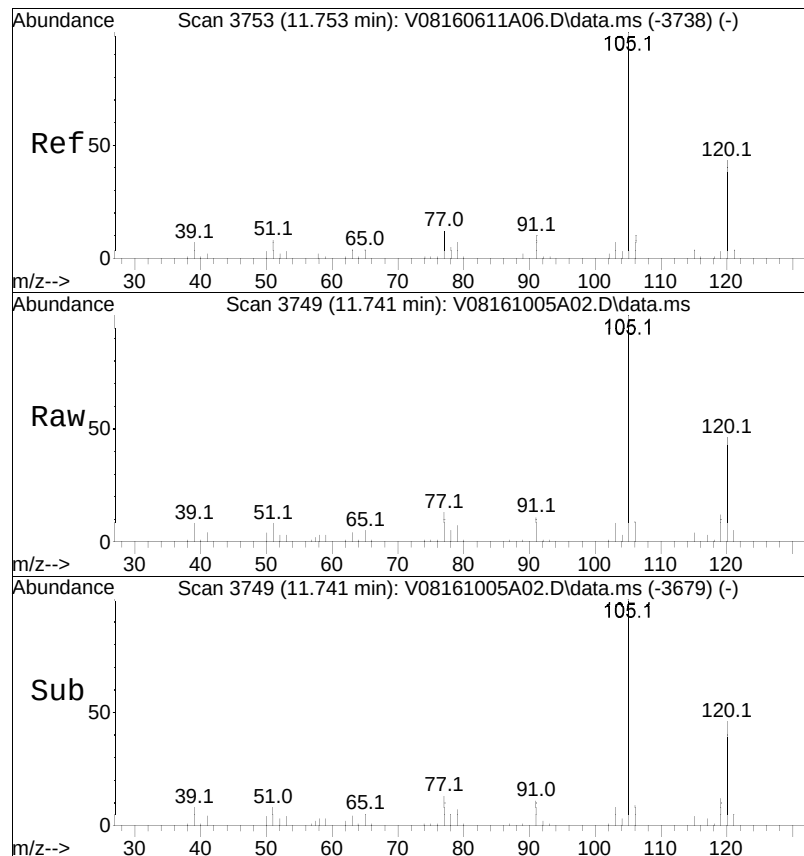




#94
 tert-Butylbenzene
 Concen: 9.33 ug/L
 RT: 11.660 min Scan# 3720
 Delta R.T. -0.009 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

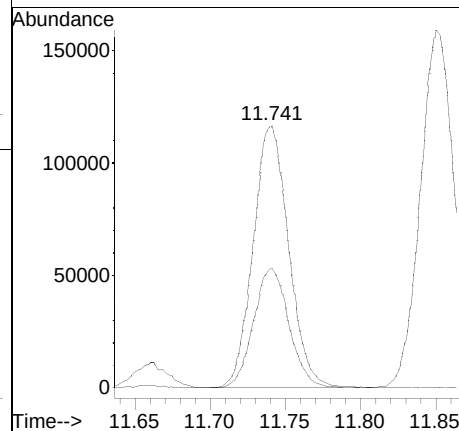
Tgt Ion	Ratio	Lower	Upper
119	100		
91	68.4	47.2	70.8
134	23.8	18.2	27.4

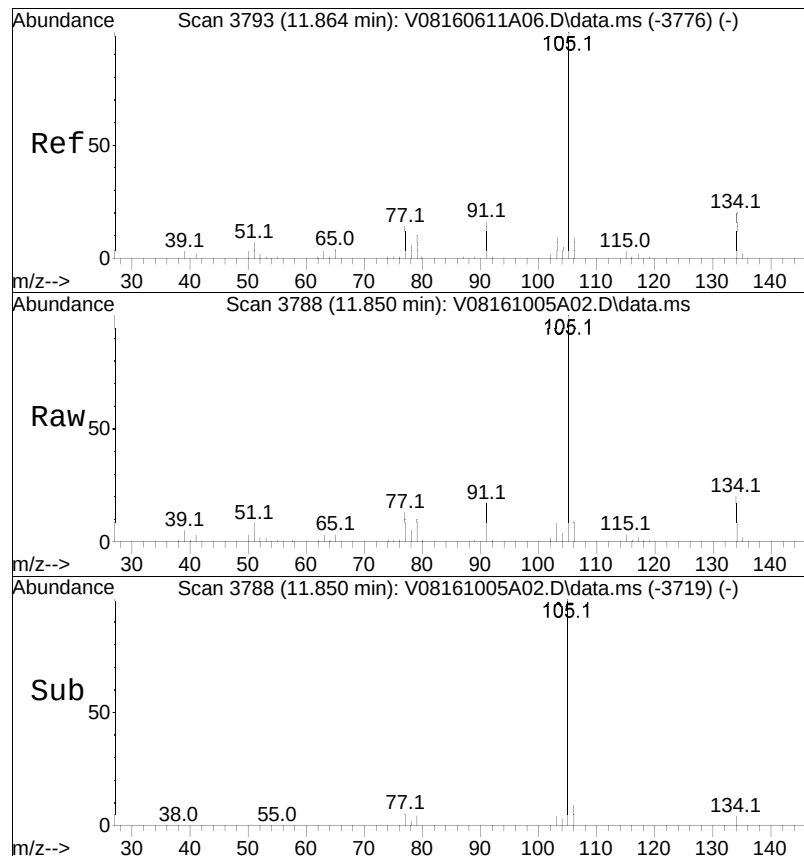




#97
 1,2,4-Trimethylbenzene
 Concen: 10.89 ug/L
 RT: 11.741 min Scan# 3749
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

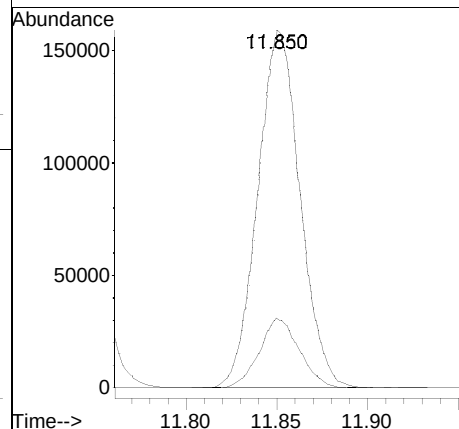
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	35.9	53.9

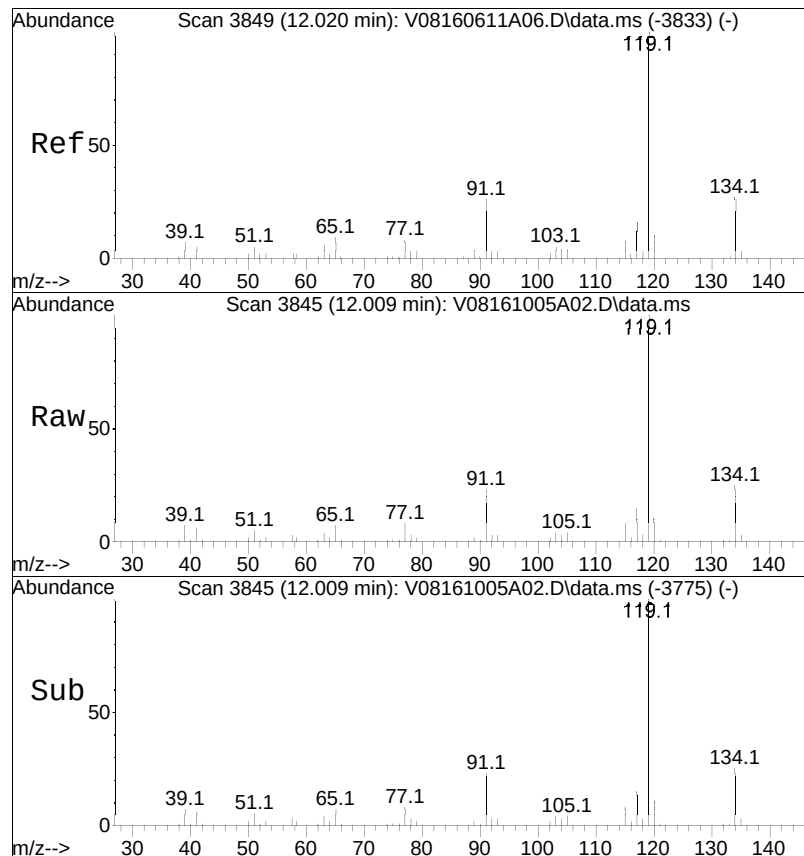




#98
 sec-Butylbenzene
 Concen: 10.61 ug/L
 RT: 11.850 min Scan# 3788
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

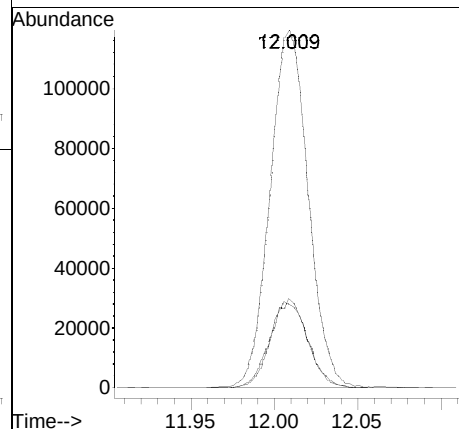
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	18.7	12.5	26.1	

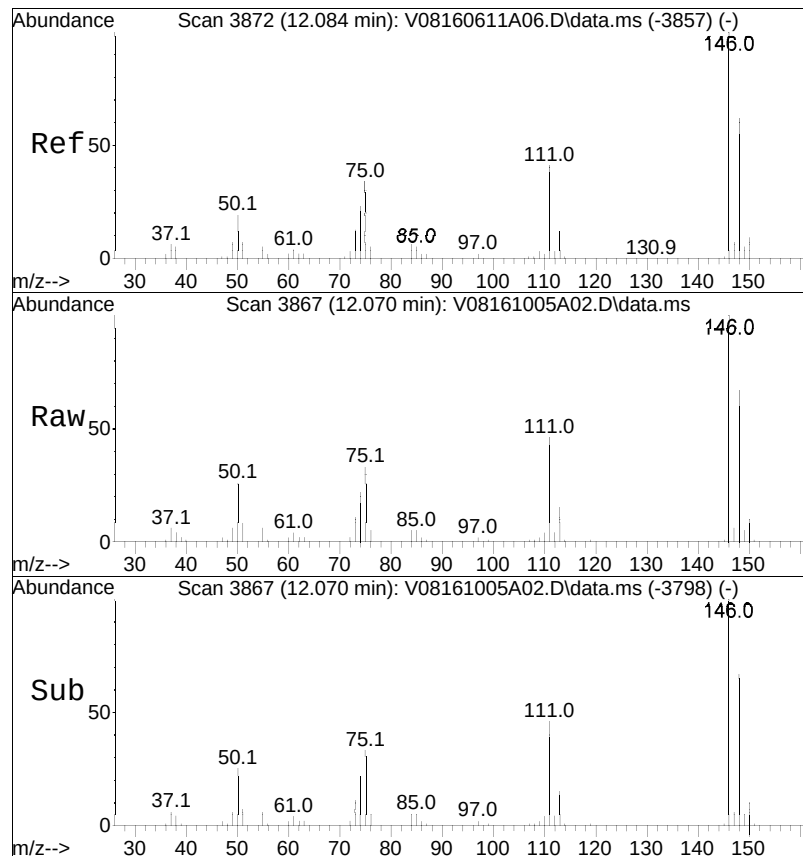




#99
 p-Isopropyltoluene
 Concen: 10.39 ug/L
 RT: 12.009 min Scan# 3845
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

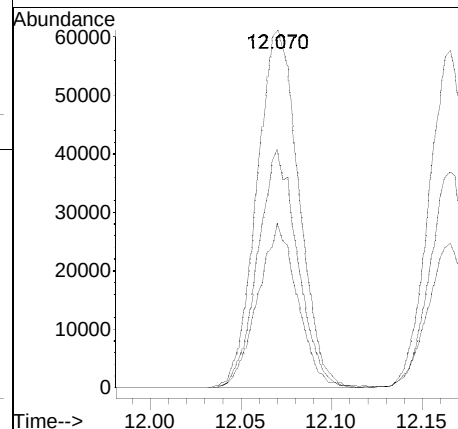
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	188827		
134	24.2		16.3	33.9
91	24.4		16.6	34.4

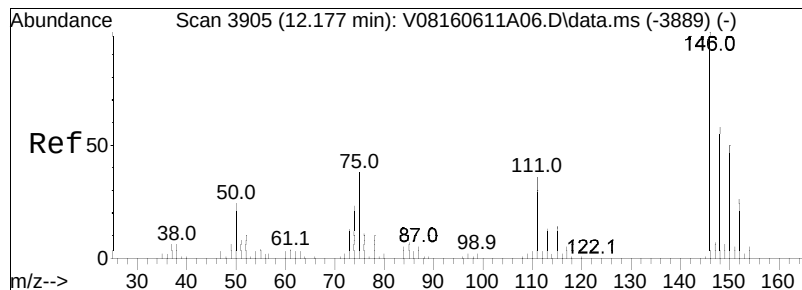




#100
 1,3-Dichlorobenzene
 Concen: 10.06 ug/L
 RT: 12.070 min Scan# 3867
 Delta R.T. -0.009 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

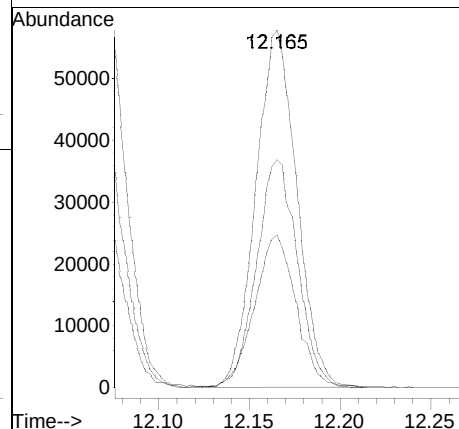
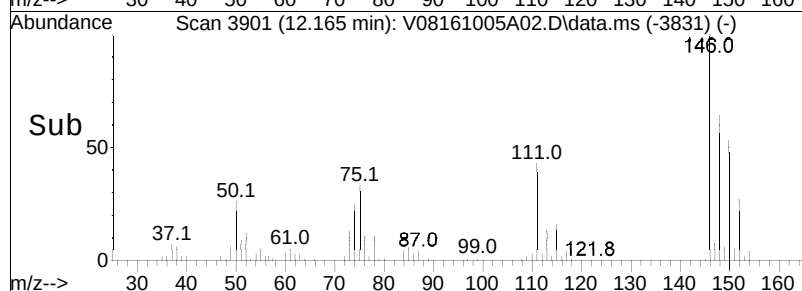
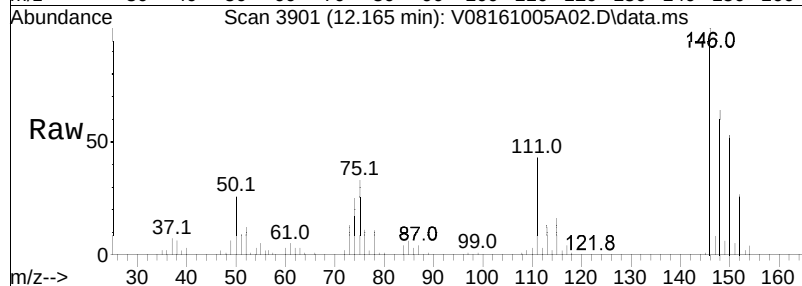
Tgt Ion:	146	Resp:	98896
Ion Ratio	Lower	Upper	
146	100		
111	43.2	27.0	56.0
148	62.8	41.0	85.0

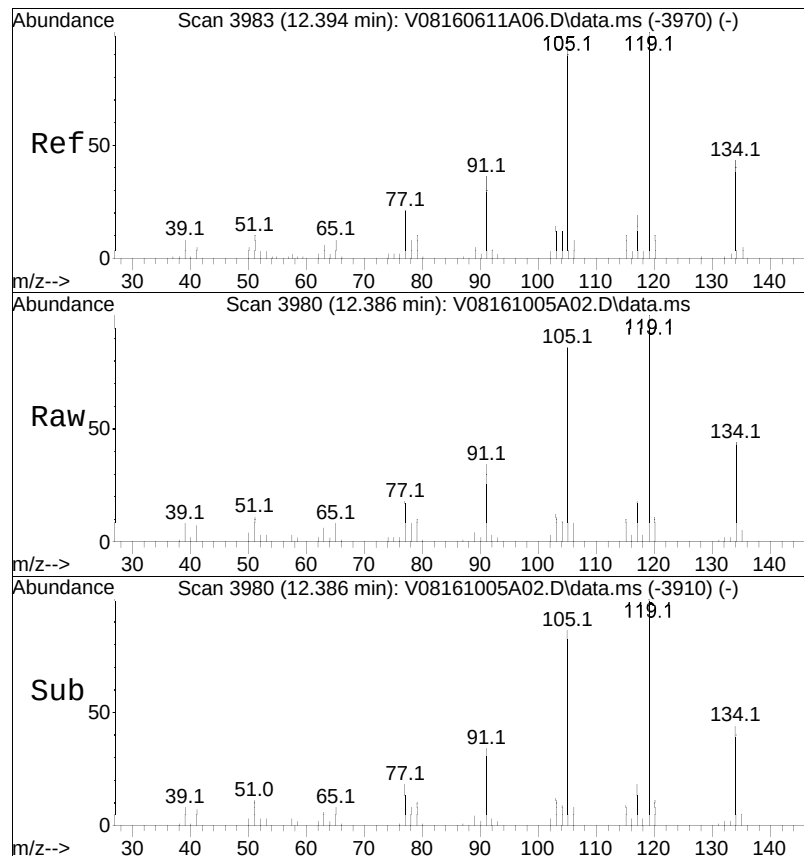




#101
 1,4-Dichlorobenzene
 Concen: 9.53 ug/L
 RT: 12.165 min Scan# 3901
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

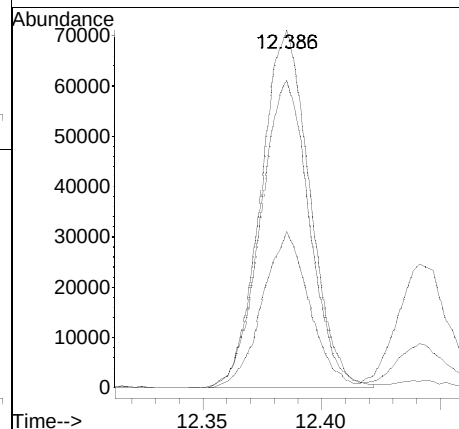
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.5	32.7	49.1
148	64.2	49.6	74.4

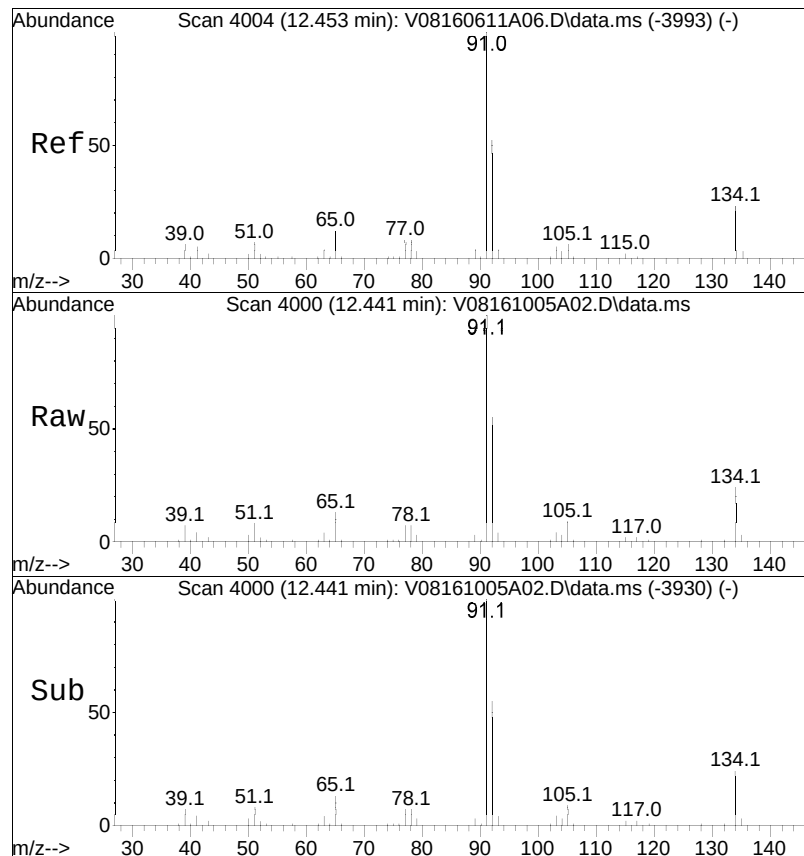




#102
 p-Diethylbenzene
 Concen: 9.03 ug/L
 RT: 12.386 min Scan# 3980
 Delta R.T. -0.005 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

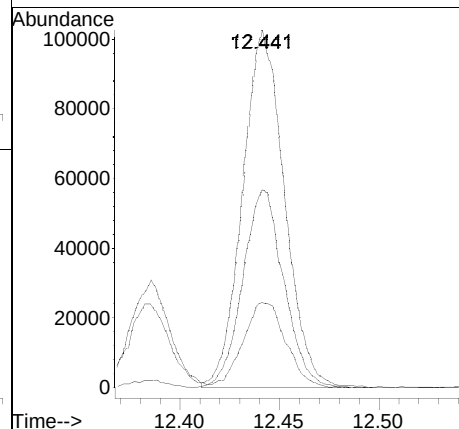
Tgt Ion	Ratio	Lower	Upper
119	100		
105	85.9	57.2	118.8
134	42.1	29.3	60.8

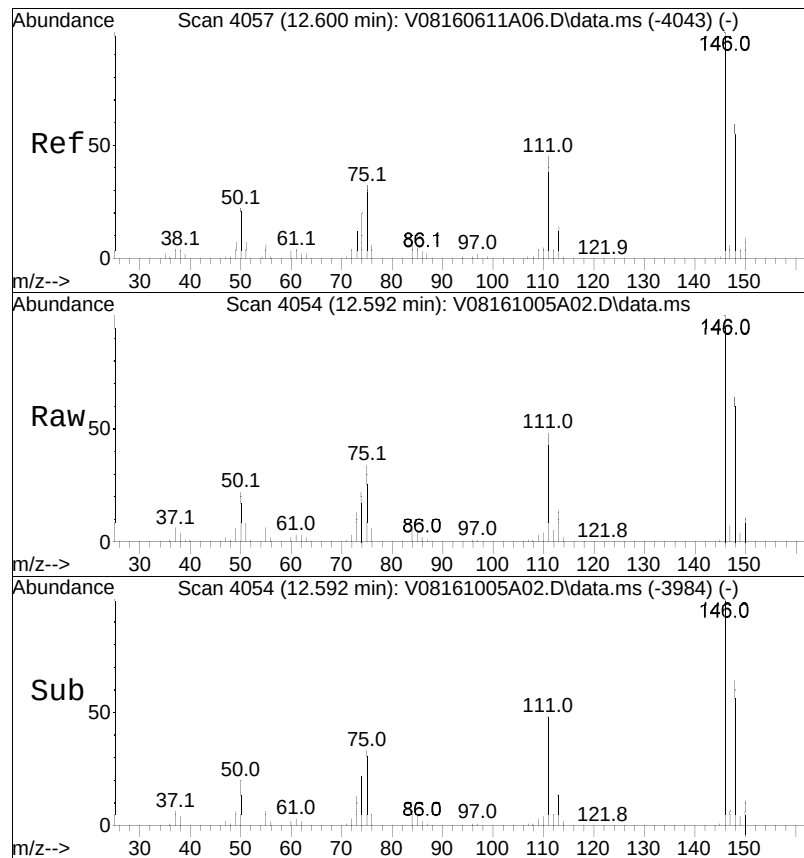




#103
 n-Butylbenzene
 Concen: 9.49 ug/L
 RT: 12.441 min Scan# 4000
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

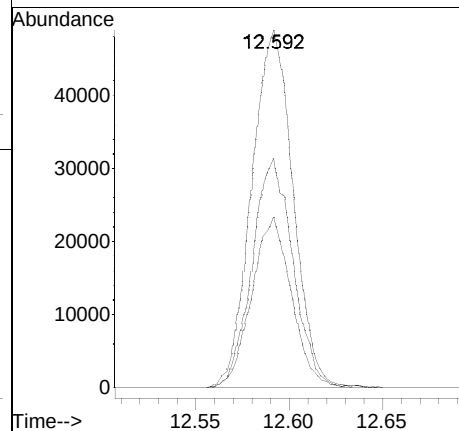
Tgt Ion:	91	Resp:	148999
Ion Ratio	Lower	Upper	
91	100		
92	54.6	43.4	65.2
134	24.7	19.8	29.6

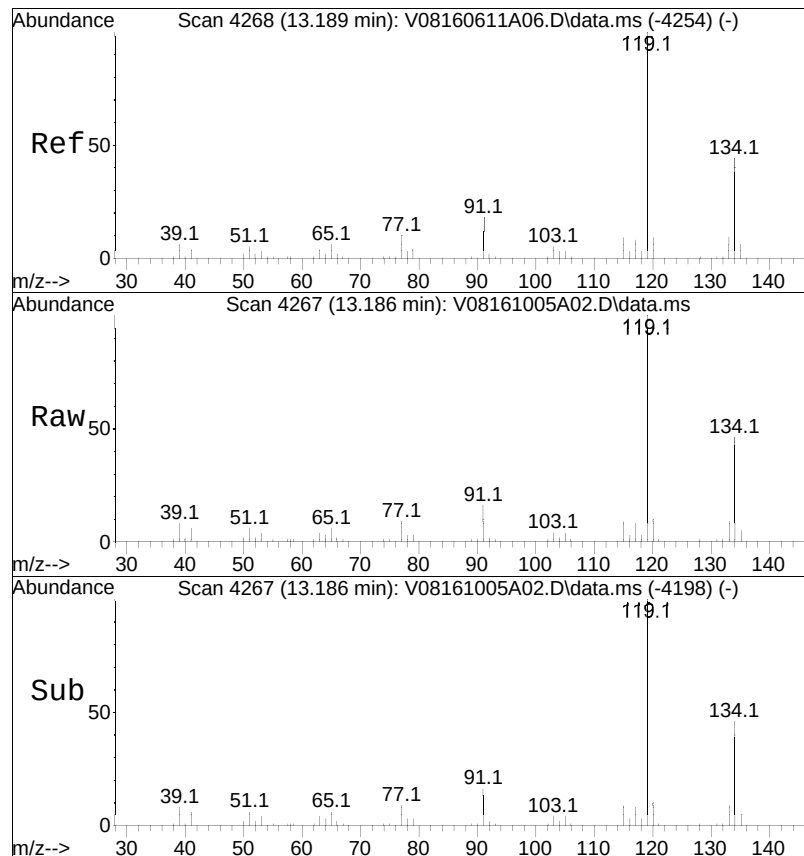




#104
 1,2-Dichlorobenzene
 Concen: 9.74 ug/L
 RT: 12.592 min Scan# 4054
 Delta R.T. -0.005 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

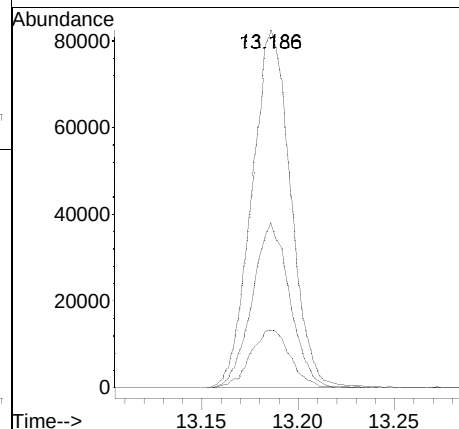
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	28.0	58.1
148	63.0	41.3	85.7

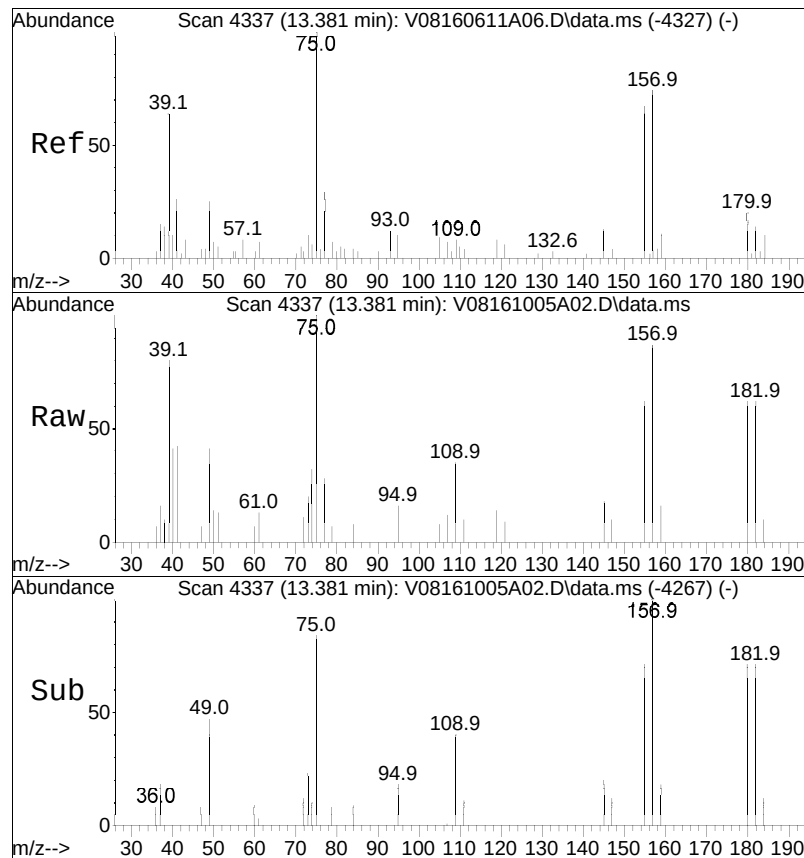




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 8.77 ug/L
 RT: 13.186 min Scan# 4267
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

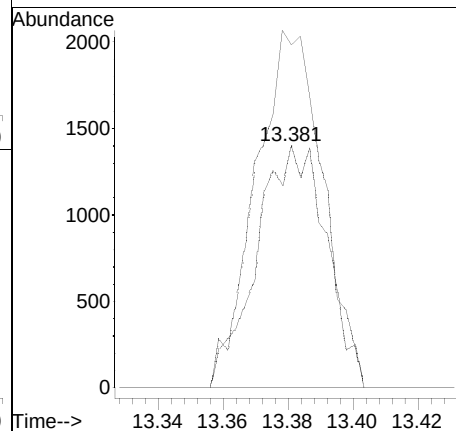
Tgt Ion	Ratio	Lower	Upper
119	100		
134	45.0	29.8	62.0
91	16.6	11.1	23.1

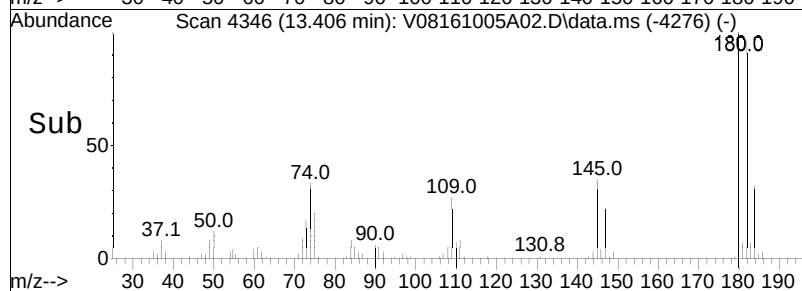
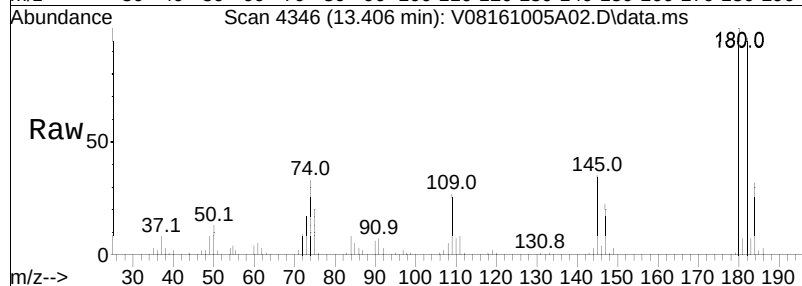
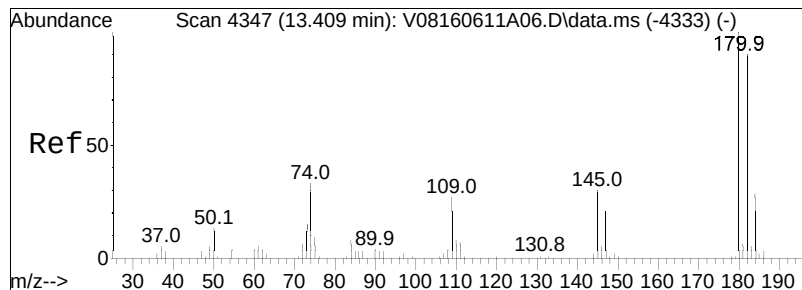




#106
 1,2-Dibromo-3-chloropropane
 Concen: 7.91 ug/L
 RT: 13.381 min Scan# 4337
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

Tgt Ion:155 Resp: 2086
 Ion Ratio Lower Upper
 155 100
 157 141.2 100.8 151.2





#107

1,3,5-Trichlorobenzene

Concen: 9.94 ug/L

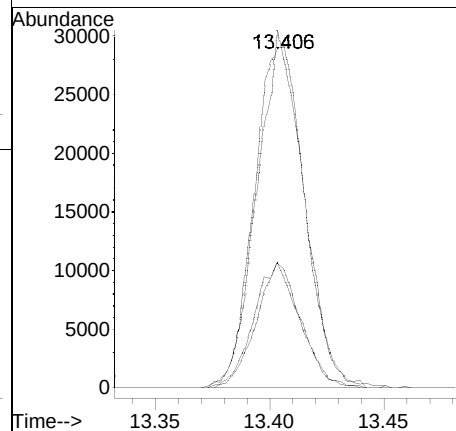
RT: 13.406 min Scan# 4346

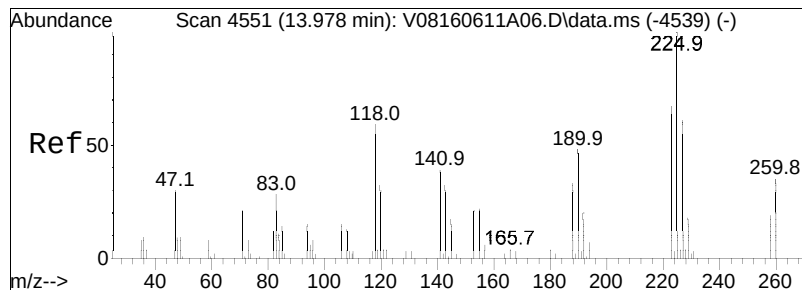
Delta R.T. -0.006 min

Lab File: V08161005A02.D

Acq: 5 Oct 2016 9:56 am

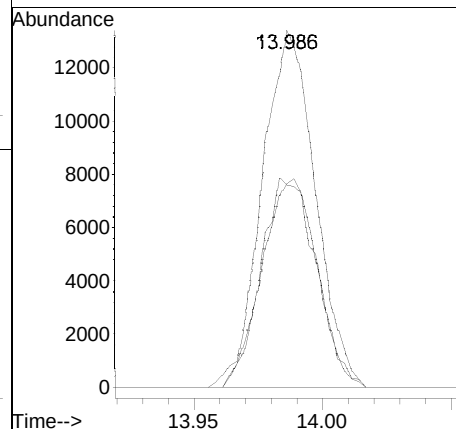
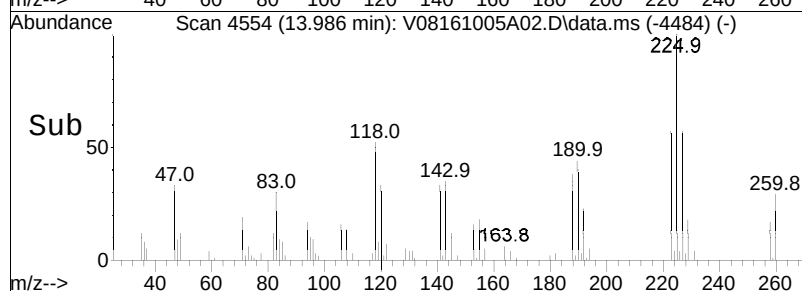
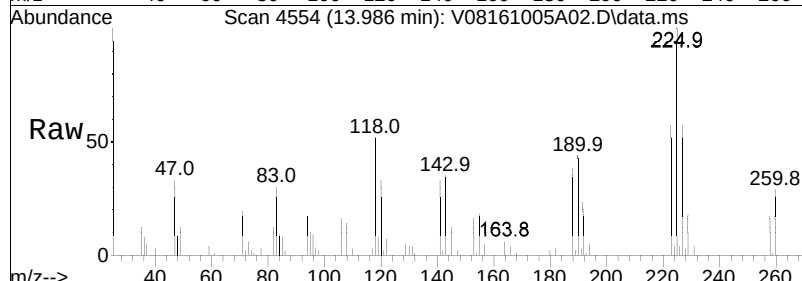
Tgt Ion:	180	Resp:	44824
Ion Ratio	Lower	Upper	
180	100		
182	95.0	63.0	131.0
145	32.3	21.3	44.3
74	33.5	23.1	47.9

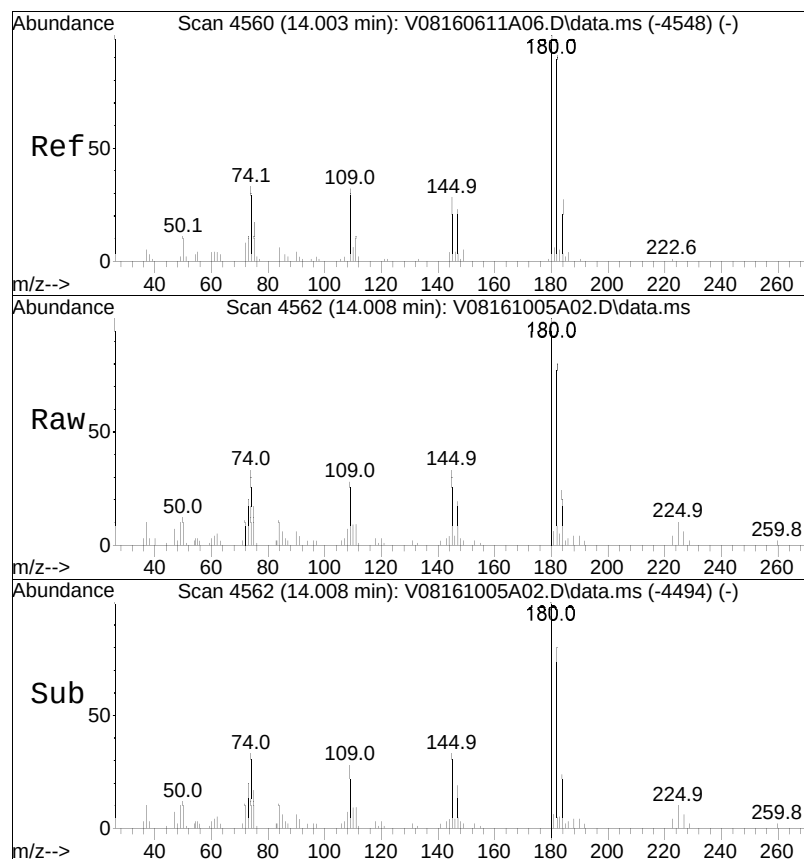




#108
 Hexachlorobutadiene
 Concen: 11.07 ug/L
 RT: 13.986 min Scan# 4554
 Delta R.T. -0.006 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

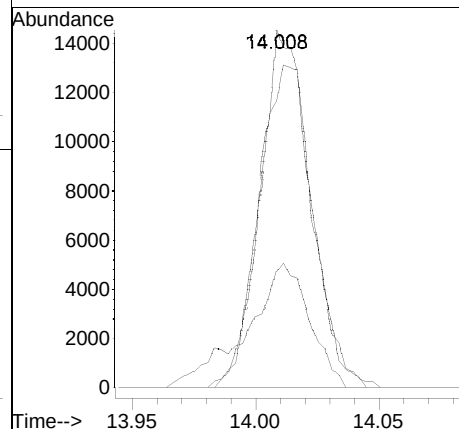
Tgt	Ion:225	Resp:	19166
Ion	Ratio	Lower	Upper
225	100		
223	61.3	50.6	76.0
227	60.3	50.2	75.2

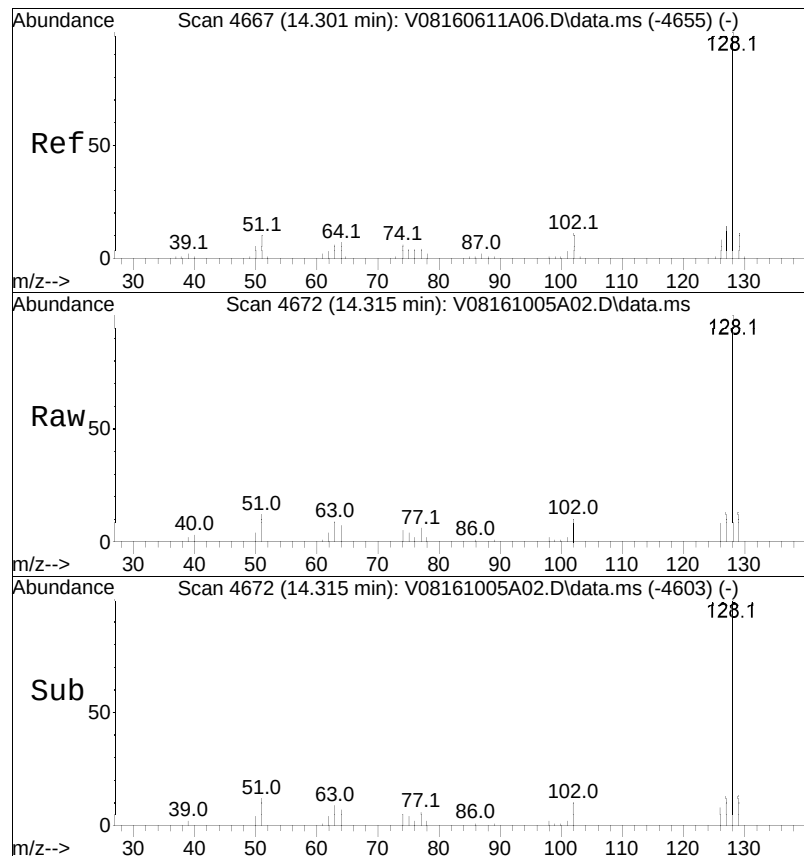




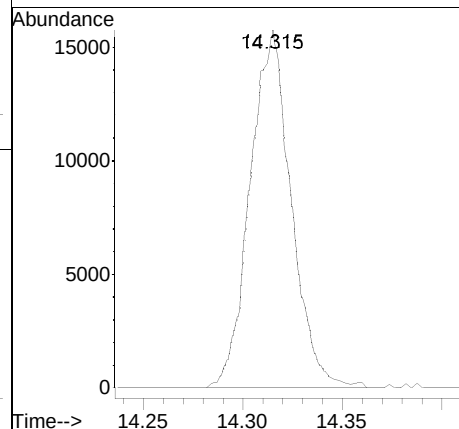
#109
 1,2,4-Trichlorobenzene
 Concen: 6.59 ug/L
 RT: 14.008 min Scan# 4562
 Delta R.T. -0.012 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

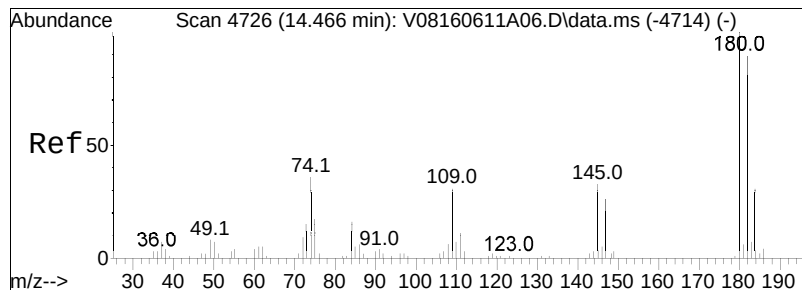
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	79.3	118.9
145	43.8	26.2	39.4





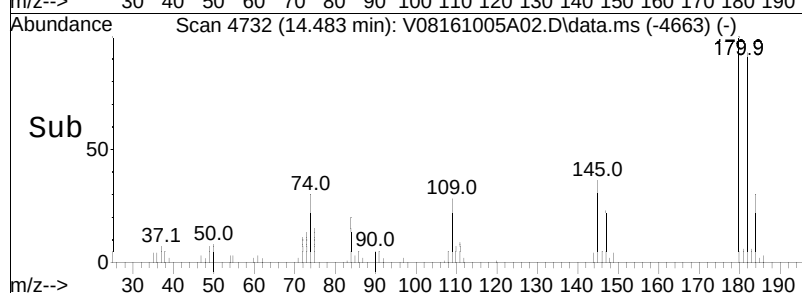
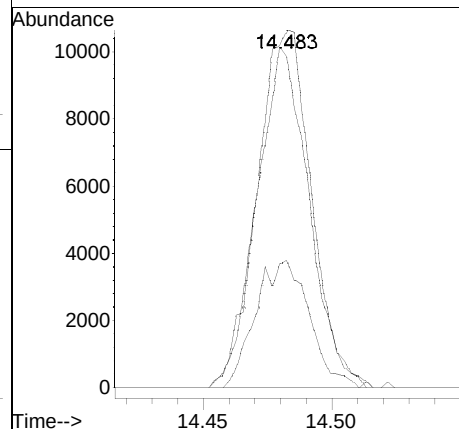
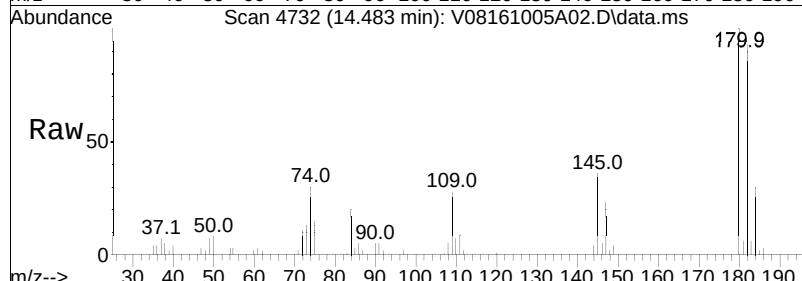
#110
 Naphthalene
 Concen: 5.69 ug/L
 RT: 14.315 min Scan# 4672
 Delta R.T. -0.009 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am
 Tgt Ion:128 Resp: 22404





#111
 1,2,3-Trichlorobenzene
 Concen: 7.13 ug/L
 RT: 14.483 min Scan# 4732
 Delta R.T. -0.008 min
 Lab File: V08161005A02.D
 Acq: 5 Oct 2016 9:56 am

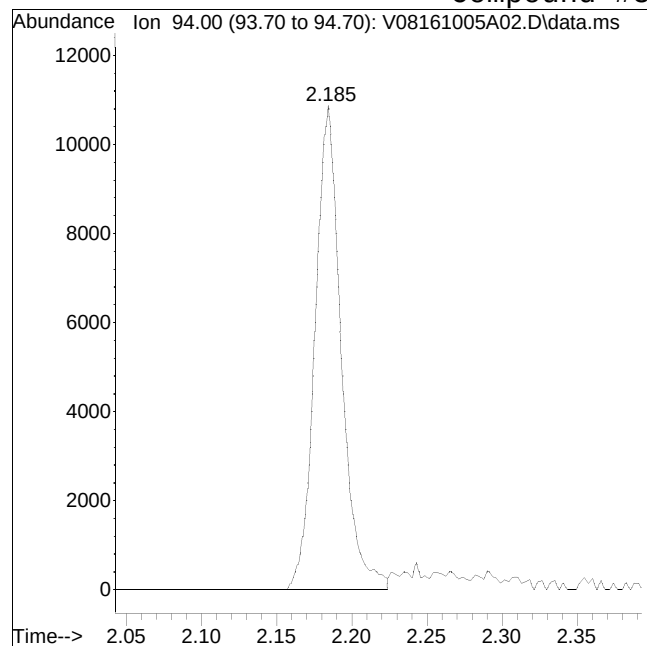
Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.4	77.9	116.9
145	35.6	29.8	44.8



Manual Integration Report

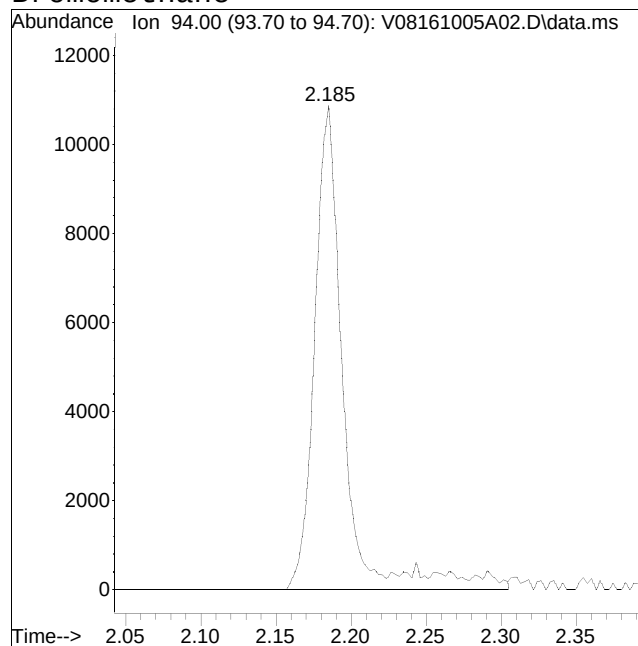
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-3,31,10,10 Quant Date : 10/5/2016 10:13 am

Compound #5: Bromomethane



Original Peak Response = 13242

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

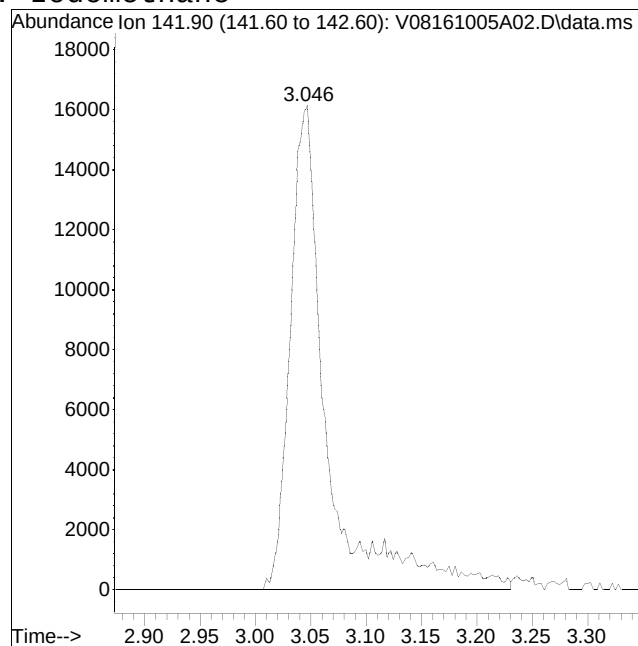
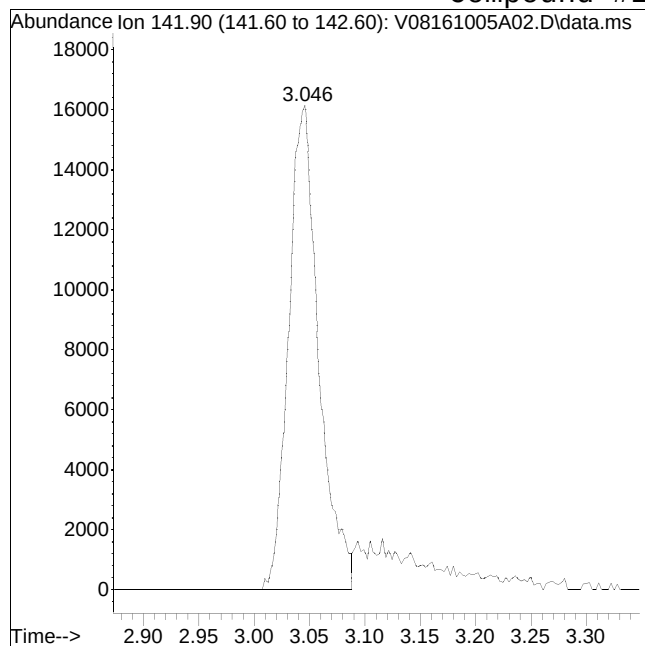


Manual Peak Response = 14790 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-3,31,10,10 Quant Date : 10/5/2016 10:13 am

Compound #13: Iodomethane



Original Peak Response = 30542

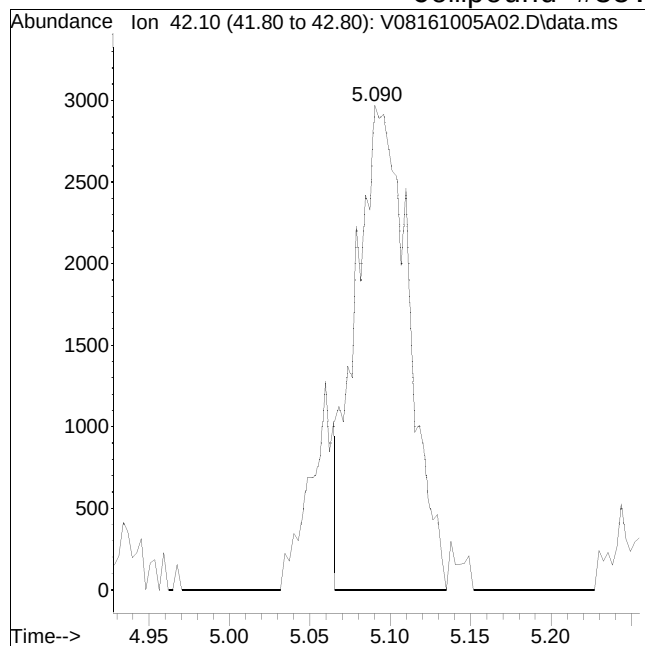
Manual Peak Response = 37545 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

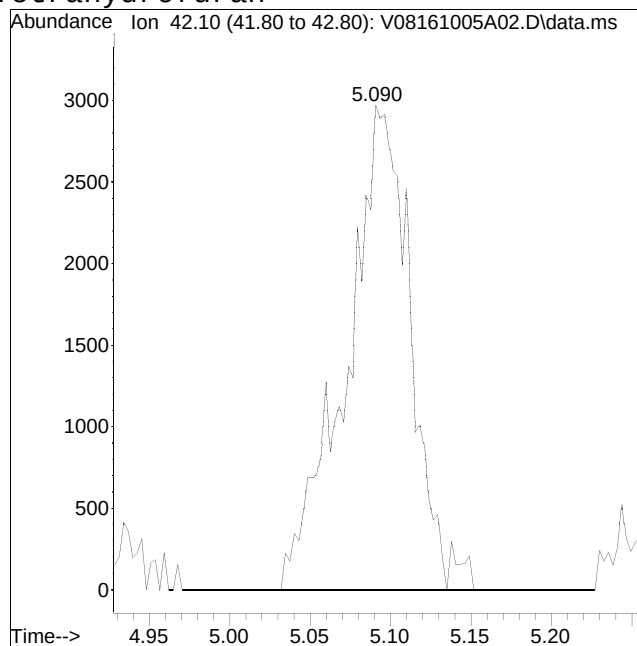
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-3,31,10,10 Quant Date : 10/5/2016 10:13 am

Compound #35: Tetrahydrofuran



Original Peak Response = 6847

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

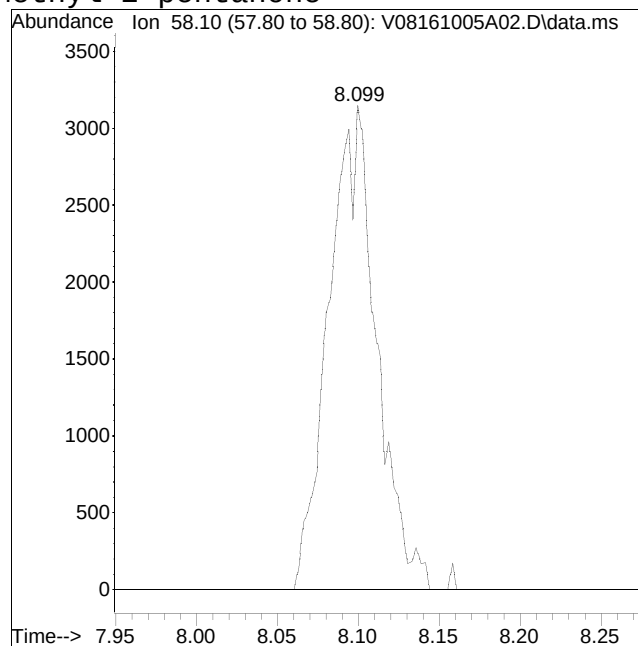
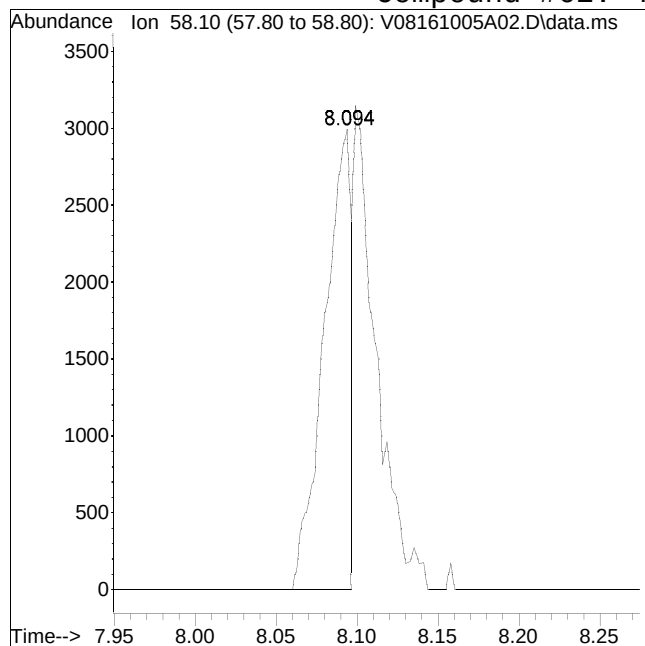


Manual Peak Response = 8279 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-3,31,10,10 Quant Date : 10/5/2016 10:13 am

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 3454

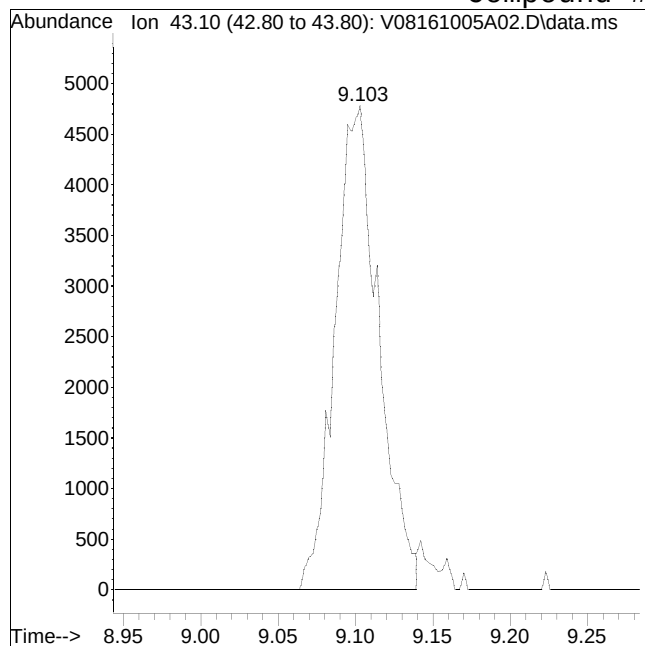
Manual Peak Response = 6501 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

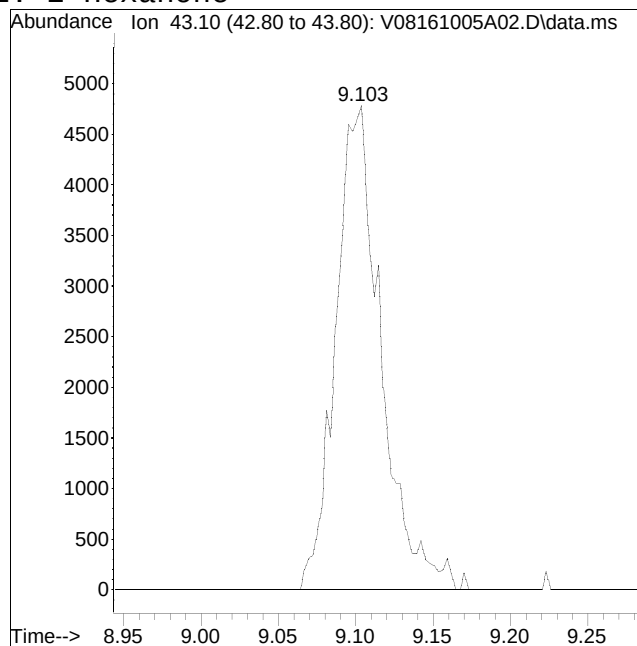
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161005A02.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 9:56 am Instrument : VOA 108
Sample : WG939161-3,31,10,10 Quant Date : 10/5/2016 10:13 am

Compound #72: 2-Hexanone



Original Peak Response = 9351

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 9736 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-10,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.916	96	246373	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.424	117	160139	10.000	ug/L	-0.01
79) 1,4-Dichlorobenzene-d4	12.149	152	67154	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	55556	9.199	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	91.99%		
43) 1,2-Dichloroethane-d4	5.640	65	48761	8.478	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	84.78%		
60) Toluene-d8	7.592	98	219783	10.186	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.86%		
83) 4-Bromofluorobenzene	10.930	95	68415	10.427	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.27%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	59558	9.816	ug/L	99
3) Chloromethane	1.794	50	85429	9.616	ug/L	98
4) Vinyl chloride	1.875	62	72361	8.679	ug/L	97
5) Bromomethane	2.182	94	18889M1	8.456	ug/L	
6) Chloroethane	2.305	64	43525	9.569	ug/L	99
7) Trichlorofluoromethane	2.433	101	89223	10.149	ug/L	99
8) Ethyl ether	2.723	74	15468	8.091	ug/L	98
10) 1,1-Dichloroethene	2.910	96	46496	9.532	ug/L	96
11) Carbon disulfide	2.935	76	156116	9.456	ug/L	99
12) Freon-113	2.943	101	43836	9.036	ug/L	76
13) Iodomethane	3.046	142	27612M1	6.645	ug/L	
14) Acrolein	3.225	56	3158	7.444	ug/L	84
15) Methylene chloride	3.451	84	51451	9.887	ug/L	95
17) Acetone	3.504	43	8027	9.783	ug/L	96
18) trans-1,2-Dichloroethene	3.599	96	62338	10.488	ug/L	93
19) Methyl acetate	3.615	43	17346	9.751	ug/L #	89
20) Methyl tert-butyl ether	3.696	73	70156	9.203	ug/L #	91
21) tert-Butyl alcohol	3.794	59	6293	43.642	ug/L #	79
22) Diisopropyl ether	4.045	45	196361	9.675	ug/L	95
23) 1,1-Dichloroethane	4.173	63	122746	9.786	ug/L	99
24) Halothane	4.223	117	42641	10.294	ug/L #	60
25) Acrylonitrile	4.234	53	9002	8.838	ug/L #	88
26) Ethyl tert-butyl ether	4.391	59	129460	9.136	ug/L	91
27) Vinyl acetate	4.407	43	75212	9.859	ug/L #	93
28) cis-1,2-Dichloroethene	4.681	96	59338	9.903	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-10,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29)	2,2-Dichloropropane	4.781	77	76391	10.250	ug/L	98
30)	Bromochloromethane	4.870	128	20652	9.352	ug/L	86
31)	Cyclohexane	4.862	56	126683	9.231	ug/L	92
32)	Chloroform	4.940	83	101944	10.157	ug/L	99
33)	Ethyl acetate	5.060	43	21312	8.745	ug/L #	92
34)	Carbon tetrachloride	5.065	117	85998	9.780	ug/L	100
35)	Tetrahydrofuran	5.090	42	7521M1	8.488	ug/L	
37)	1,1,1-Trichloroethane	5.132	97	98791	10.312	ug/L #	96
39)	2-Butanone	5.247	43	9270	9.517	ug/L #	74
40)	1,1-Dichloropropene	5.258	75	77013	9.551	ug/L	100
41)	Benzene	5.503	78	232485	9.859	ug/L	99
42)	tert-Amyl methyl ether	5.604	73	75612	8.756	ug/L	94
44)	1,2-Dichloroethane	5.707	62	56358	9.284	ug/L	98
47)	Methyl cyclohexane	6.067	83	80987	8.533	ug/L	97
48)	Trichloroethene	6.083	95	63500	10.000	ug/L	98
50)	Dibromomethane	6.527	93	19155	9.271	ug/L	97
51)	1,2-Dichloropropane	6.635	63	56092	9.262	ug/L	97
53)	2-Chloroethyl vinyl ether	0.000		0	N.D.	d	
54)	Bromodichloromethane	6.705	83	62608	9.768	ug/L #	98
57)	1,4-Dioxane	6.909	88	8790M1	448.916	ug/L	
58)	cis-1,3-Dichloropropene	7.386	75	58537	8.464	ug/L	98
61)	Toluene	7.648	92	144932	10.532	ug/L	98
62)	4-Methyl-2-pentanone	8.091	58	6091	7.374	ug/L #	87
63)	Tetrachloroethene	8.083	166	56262	9.779	ug/L	98
65)	trans-1,3-Dichloropropene	8.138	75	42657	9.242	ug/L	99
67)	Ethyl methacrylate	8.331	69	22621	7.316	ug/L	86
68)	1,1,2-Trichloroethane	8.323	83	22454	10.303	ug/L #	83
69)	Chlorodibromomethane	8.523	129	32598	9.683	ug/L	95
70)	1,3-Dichloropropane	8.640	76	45108	9.583	ug/L	100
71)	1,2-Dibromoethane	8.808	107	22947	9.640	ug/L	98
72)	2-Hexanone	9.103	43	8788	6.862	ug/L #	90
73)	Chlorobenzene	9.441	112	139286	9.754	ug/L	88
74)	Ethylbenzene	9.483	91	266034	10.409	ug/L	99
75)	1,1,1,2-Tetrachloroethane	9.527	131	44608	9.669	ug/L	97
76)	p/m Xylene	9.672	106	205133	20.339	ug/L	97
77)	o Xylene	10.216	106	181961	20.058	ug/L	98
78)	Styrene	10.289	104	288265	20.400	ug/L	99
80)	Bromoform	10.308	173	14527	10.162	ug/L	97
82)	Isopropylbenzene	10.604	105	243768	10.429	ug/L	98
84)	Bromobenzene	11.044	156	44187	10.075	ug/L	100
85)	n-Propylbenzene	11.092	91	283968	10.684	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-10,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	1,4-Dichlorobutane	11.114	55	54606	10.603	ug/L	96
87)	1,1,2,2-Tetrachloroethane	11.186	83	23877	10.324	ug/L	99
88)	4-Ethyltoluene	11.217	105	234781	10.653	ug/L	98
89)	2-Chlorotoluene	11.256	91	176980	11.105	ug/L	99
90)	1,3,5-Trimethylbenzene	11.320	105	190282	10.587	ug/L #	76
91)	1,2,3-Trichloropropane	11.323	75	20114	10.619	ug/L #	91
92)	trans-1,4-Dichloro-2-b...	11.382	53	7462	9.959	ug/L	94
93)	4-Chlorotoluene	11.446	91	167043	11.026	ug/L #	100
94)	tert-Butylbenzene	11.661	119	149020	8.560	ug/L	90
97)	1,2,4-Trimethylbenzene	11.739	105	168642	10.309	ug/L	100
98)	sec-Butylbenzene	11.850	105	213836	9.594	ug/L	99
99)	p-Isopropyltoluene	12.006	119	159277	9.427	ug/L	98
100)	1,3-Dichlorobenzene	12.068	146	89345	9.778	ug/L	98
101)	1,4-Dichlorobenzene	12.165	146	83514	9.468	ug/L	97
102)	p-Diethylbenzene	12.386	119	86787	8.350	ug/L	98
103)	n-Butylbenzene	12.441	91	123071	8.473	ug/L	100
104)	1,2-Dichlorobenzene	12.589	146	68336	9.552	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.186	119	104093	8.582	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.378	155	2058	8.396	ug/L	98
107)	1,3,5-Trichlorobenzene	13.403	180	39620	9.447	ug/L	98
108)	Hexachlorobutadiene	13.986	225	16208	10.070	ug/L	99
109)	1,2,4-Trichlorobenzene	14.014	180	18748	6.506	ug/L #	93
110)	Naphthalene	14.313	128	21167	5.766	ug/L	100
111)	1,2,3-Trichlorobenzene	14.483	180	13618	6.773	ug/L	94

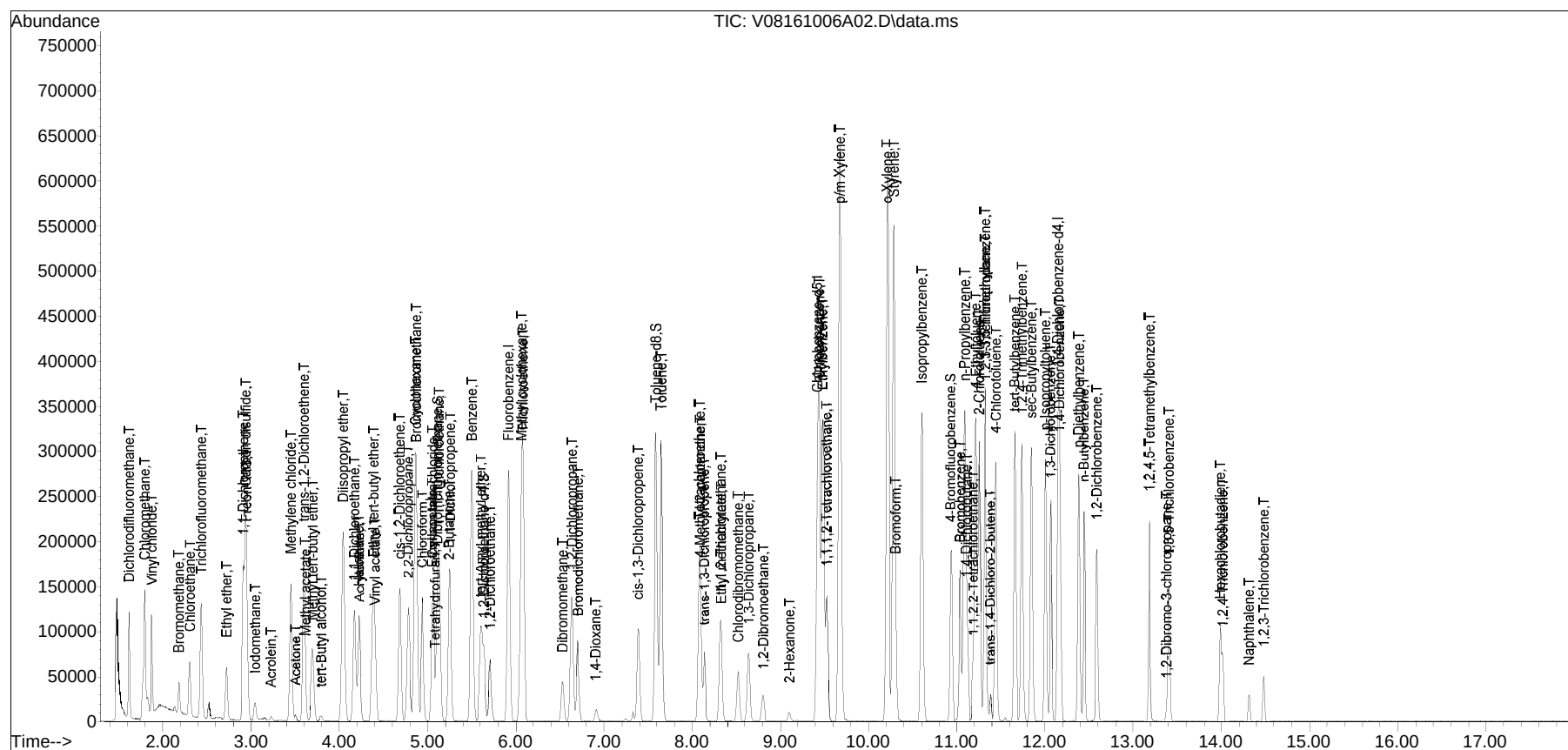
(#) = qualifier out of range (m) = manual integration (+) = signals summed

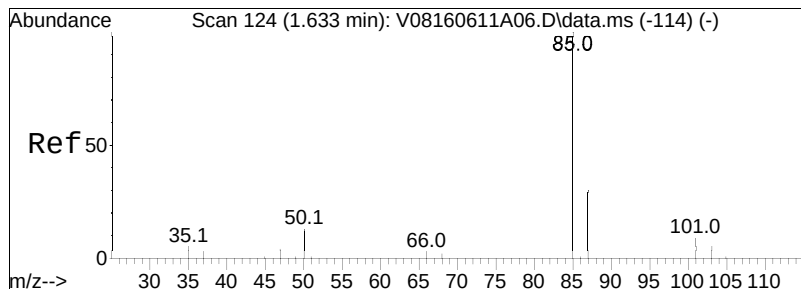
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A02.D
 Acq On : 6 Oct 2016 9:34 am
 Operator : VOA108:PD
 Sample : WG939161-10,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 06 09:54:40 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

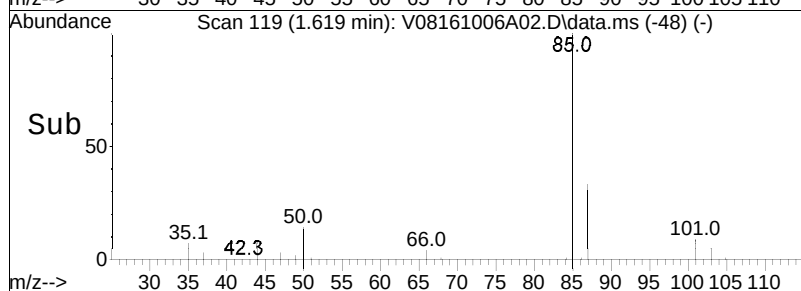
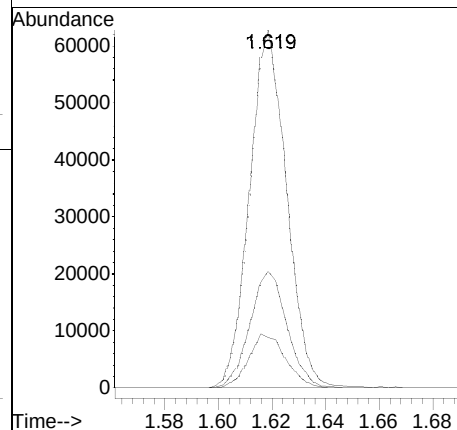
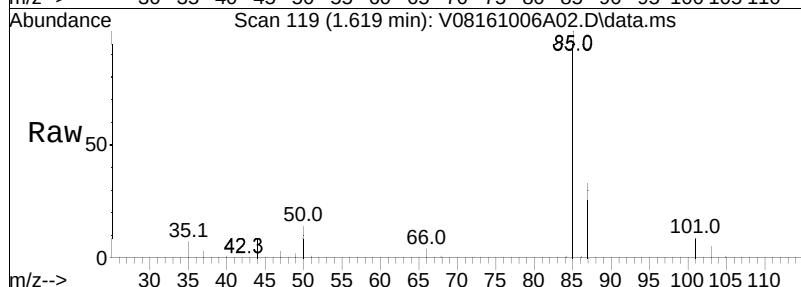
Sub List : 8260-Curve - Megamix plus Diox

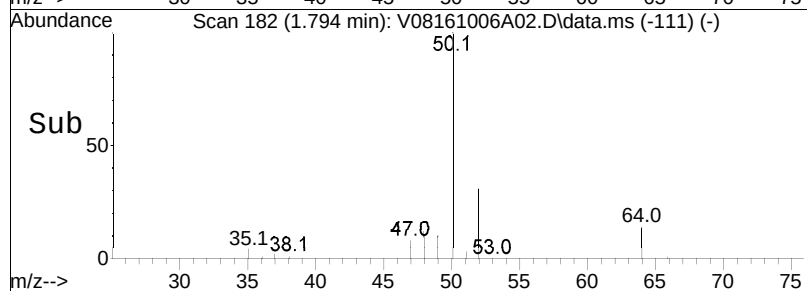
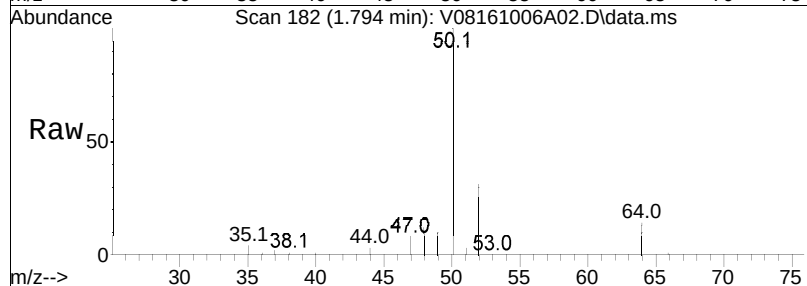
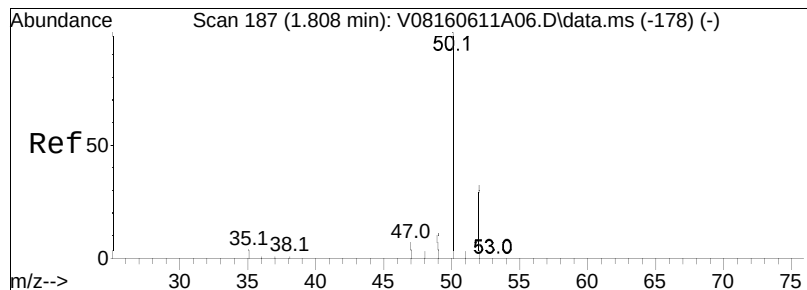




#2
 Dichlorodifluoromethane
 Concen: 9.82 ug/L
 RT: 1.619 min Scan# 119
 Delta R.T. -0.002 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt Ion: 85 Resp: 59558
 Ion Ratio Lower Upper
 85 100
 87 32.7 21.4 44.4
 50 15.1 10.0 20.8





#3

Chloromethane

Concen: 9.62 ug/L

RT: 1.794 min Scan# 182

Delta R.T. -0.003 min

Lab File: V08161006A02.D

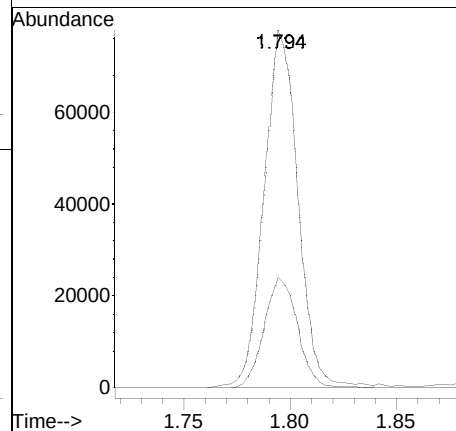
Acq: 6 Oct 2016 9:34 am

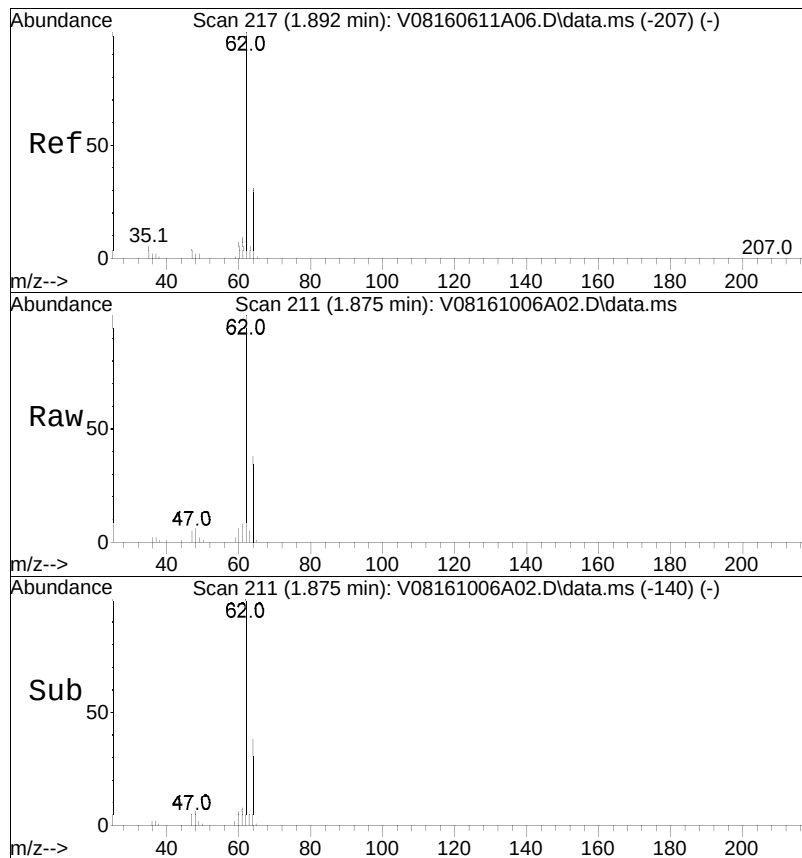
Tgt Ion: 50 Resp: 85429

Ion Ratio Lower Upper

50 100

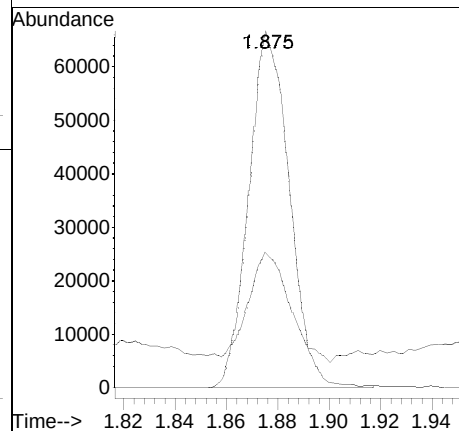
52 30.5 11.8 51.8

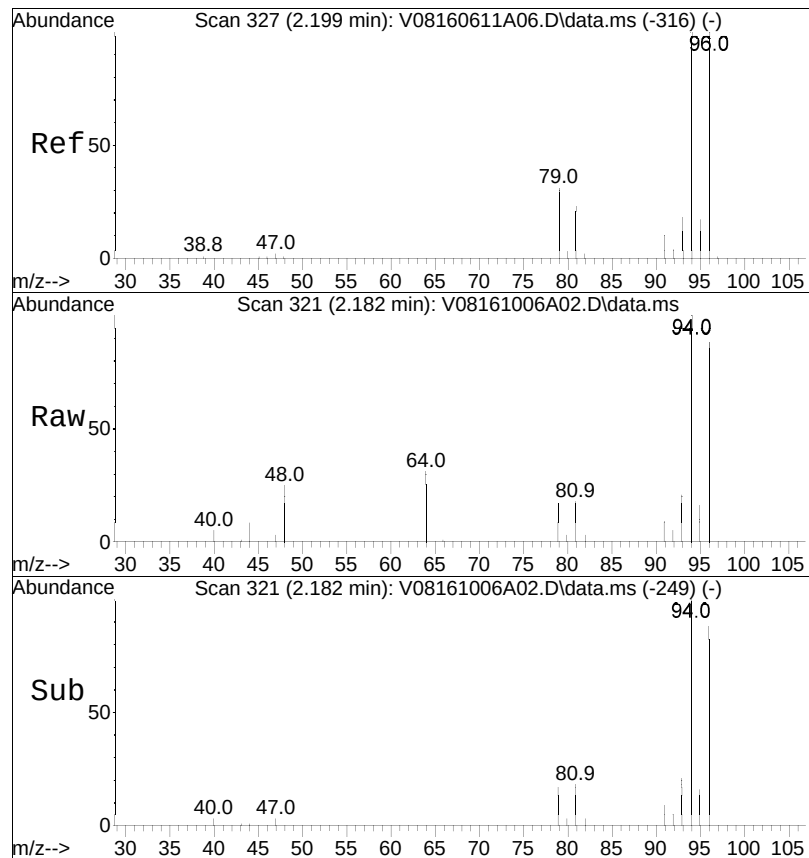




#4
 Vinyl chloride
 Concen: 8.68 ug/L
 RT: 1.875 min Scan# 211
 Delta R.T. -0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

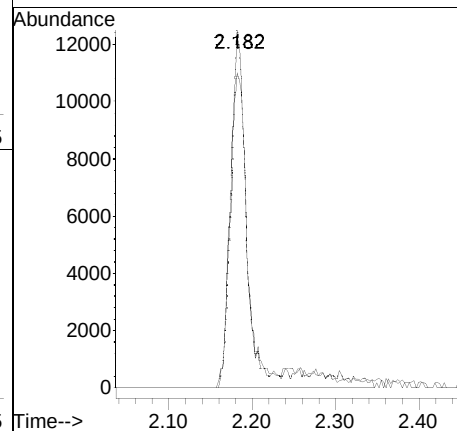
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	9.7	49.7

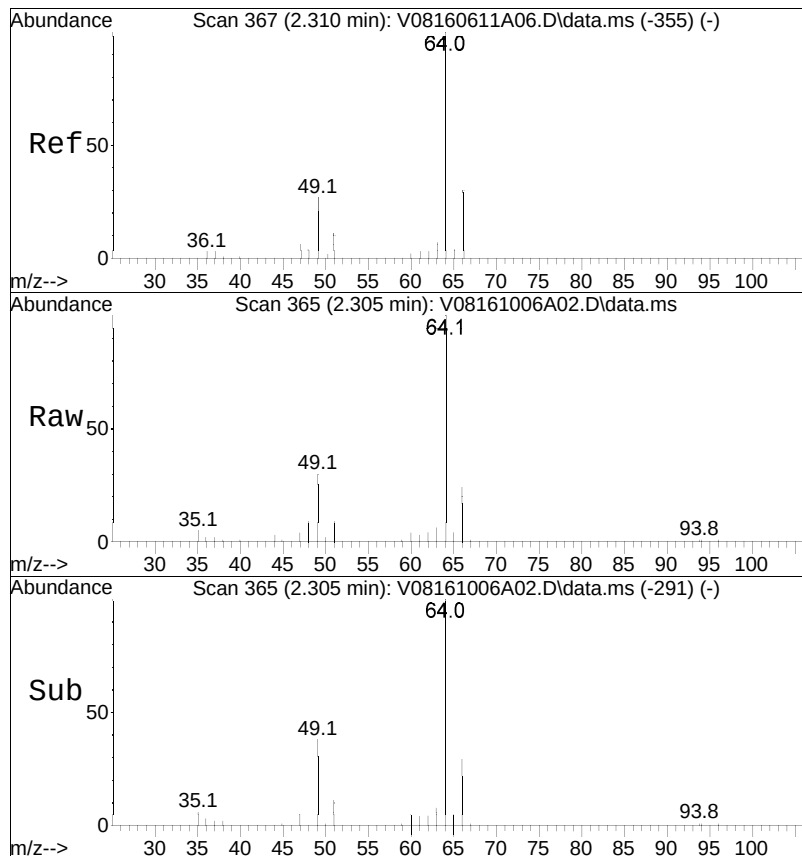




#5
 Bromomethane
 Concen: 8.46 ug/L M1
 RT: 2.182 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

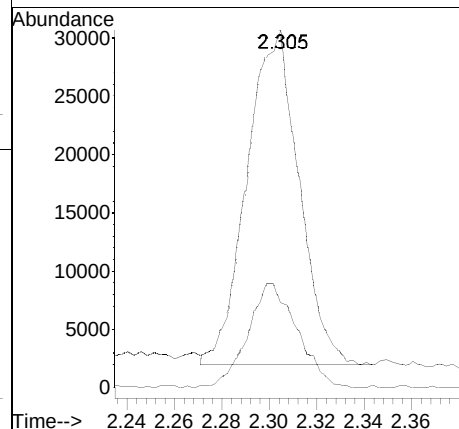
Tgt Ion: 94 Resp: 18889
 Ion Ratio Lower Upper
 94 100
 96 78.0 75.7 115.7

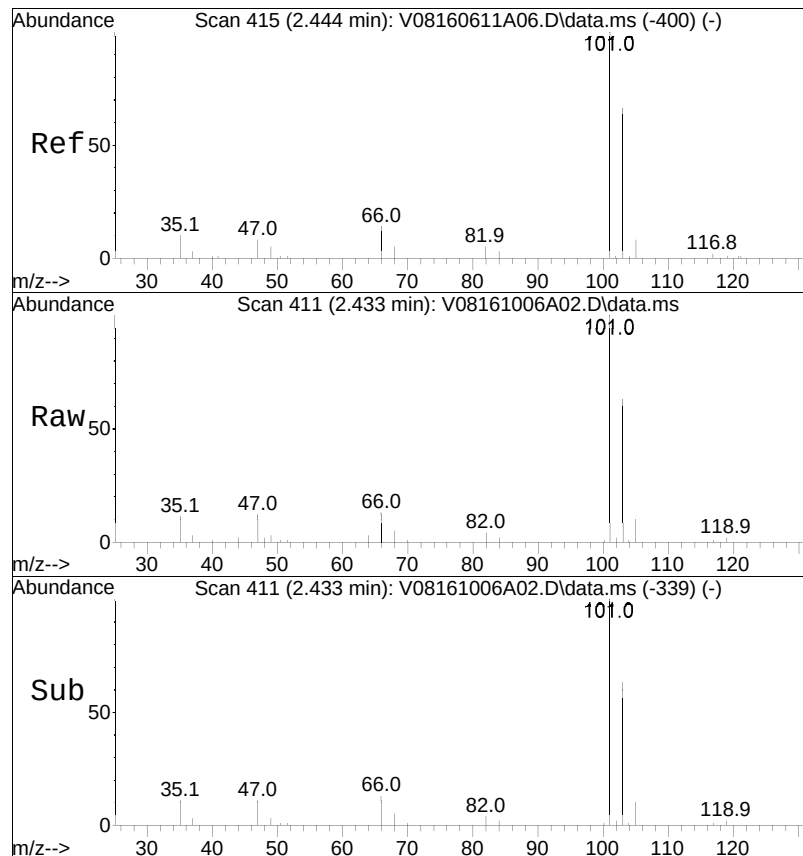




#6
 Chloroethane
 Concen: 9.57 ug/L
 RT: 2.305 min Scan# 365
 Delta R.T. 0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

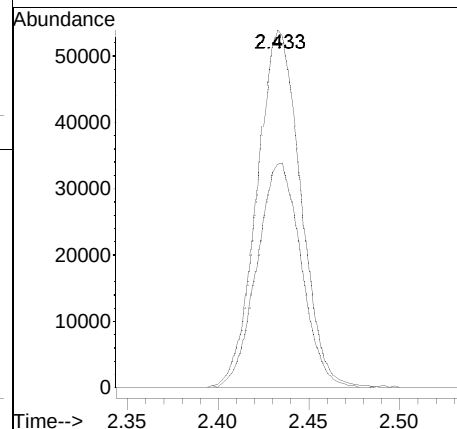
Tgt Ion:	64	Resp:	43525
Ion Ratio	Lower	Upper	
64	100		
66	29.9	9.1	49.1

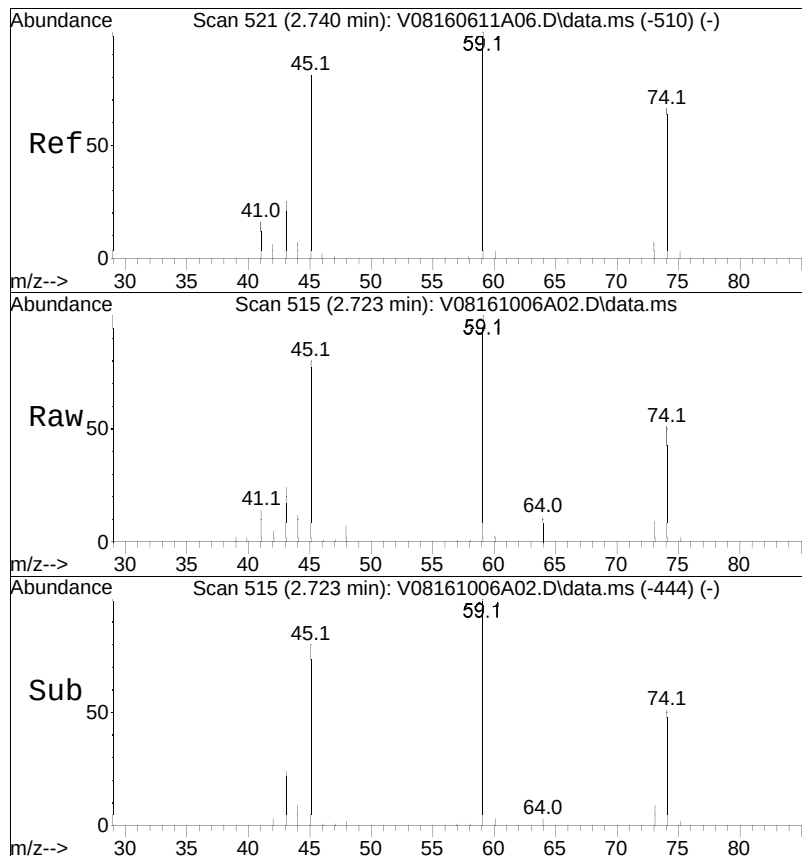




#7
 Trichlorofluoromethane
 Concen: 10.15 ug/L
 RT: 2.433 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

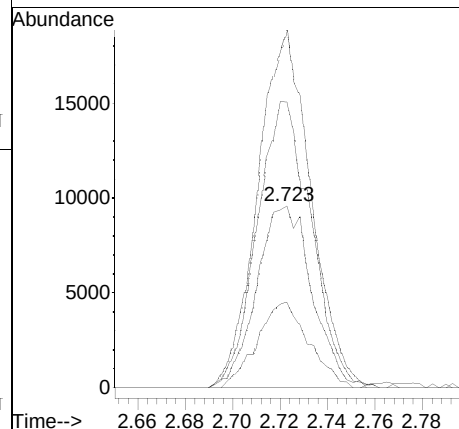
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	63.8	51.7	77.5	

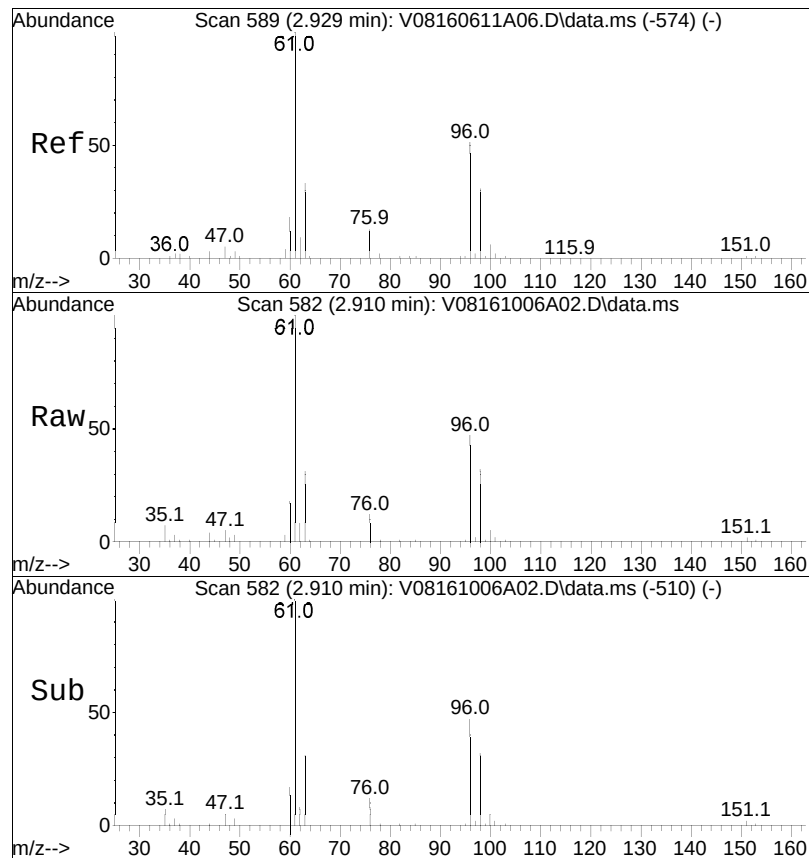




#8
 Ethyl ether
 Concen: 8.09 ug/L
 RT: 2.723 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

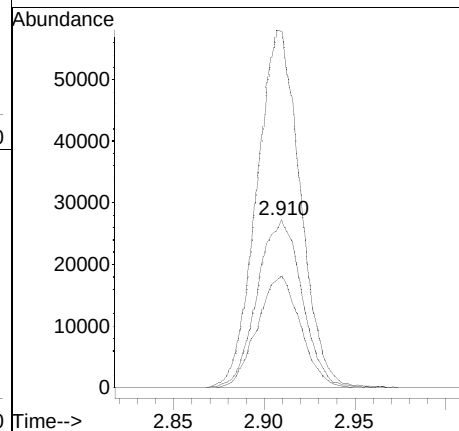
Tgt Ion:	74	Resp:	15468
Ion	Ratio	Lower	Upper
74	100		
59	188.4	126.0	261.8
45	152.8	99.2	206.0
43	44.1	26.7	55.4

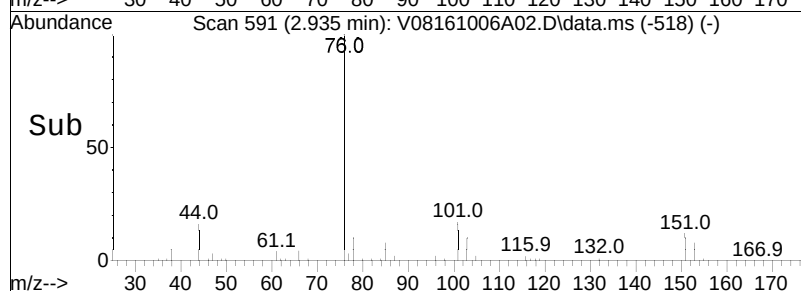
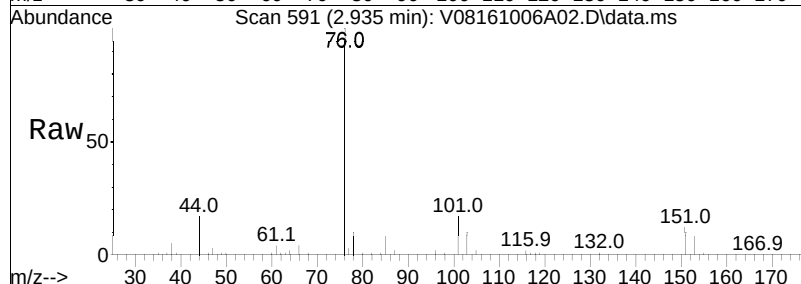
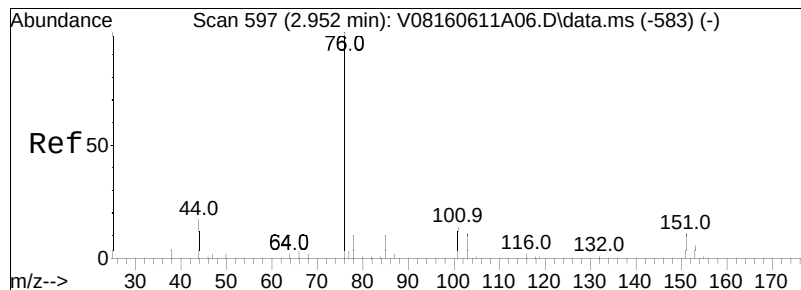




#10
 1,1-Dichloroethene
 Concen: 9.53 ug/L
 RT: 2.910 min Scan# 582
 Delta R.T. -0.000 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	46496		
61	206.3		171.2	256.8
63	64.4		52.6	78.8





#11

Carbon disulfide

Concen: 9.46 ug/L

RT: 2.935 min Scan# 591

Delta R.T. 0.003 min

Lab File: V08161006A02.D

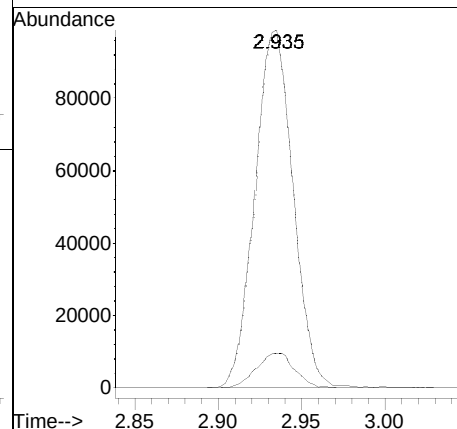
Acq: 6 Oct 2016 9:34 am

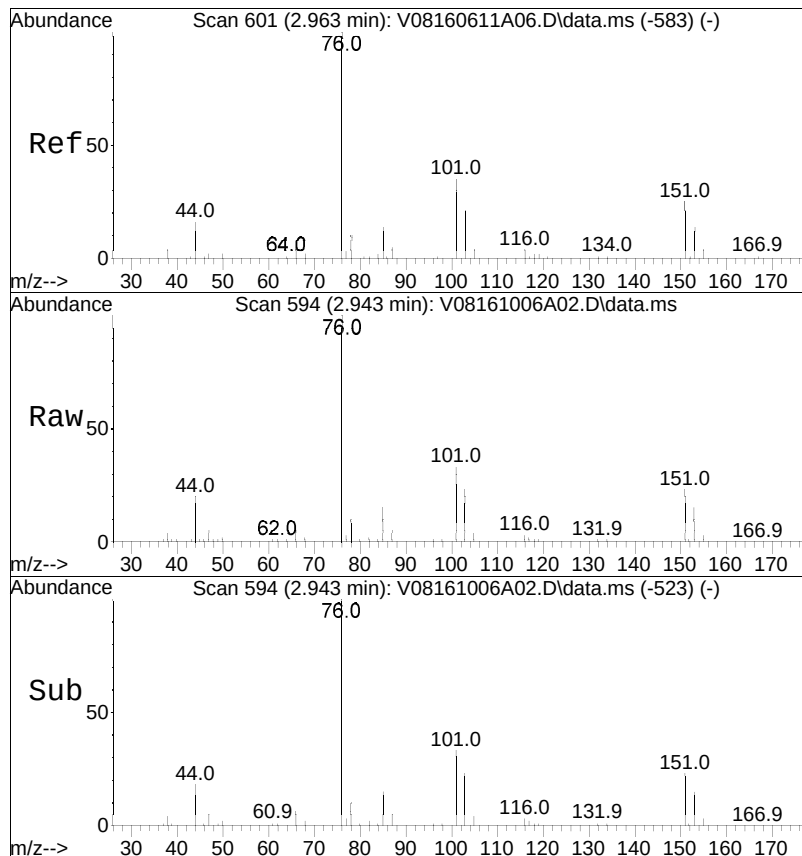
Tgt Ion: 76 Resp: 156116

Ion Ratio Lower Upper

76 100

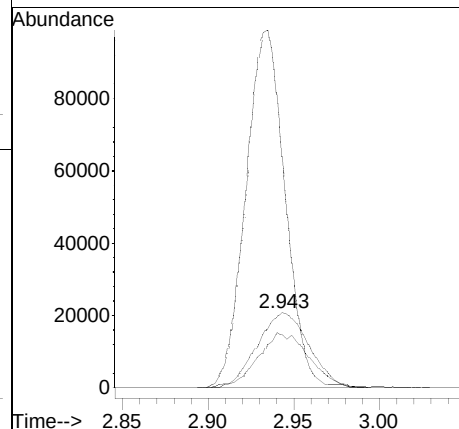
78 10.0 6.6 13.8

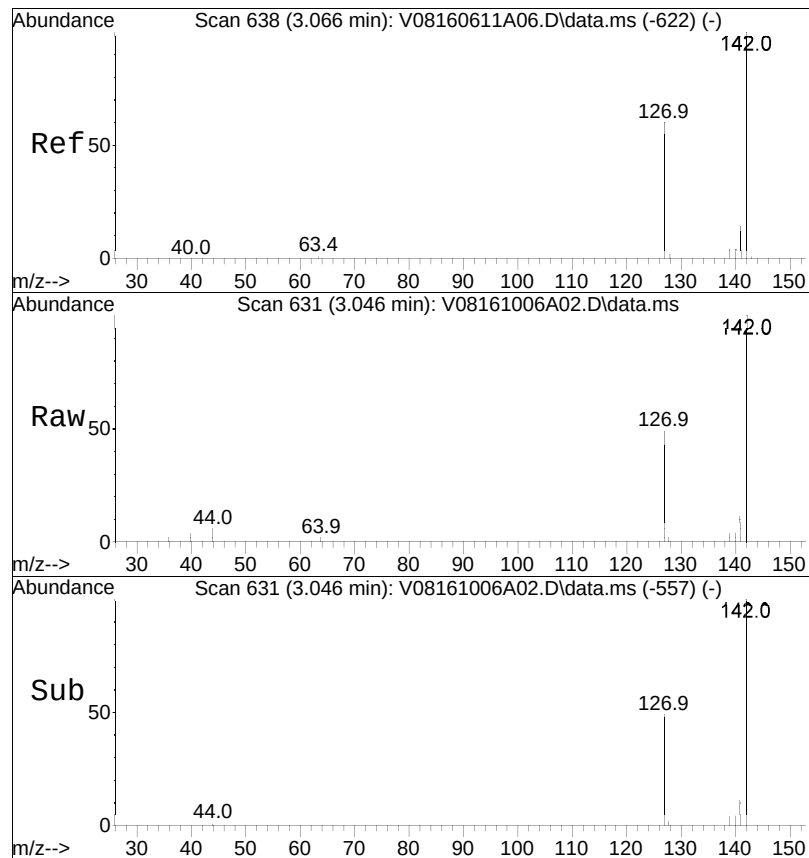




#12
 Freon-113
 Concen: 9.04 ug/L
 RT: 2.943 min Scan# 594
 Delta R.T. -0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

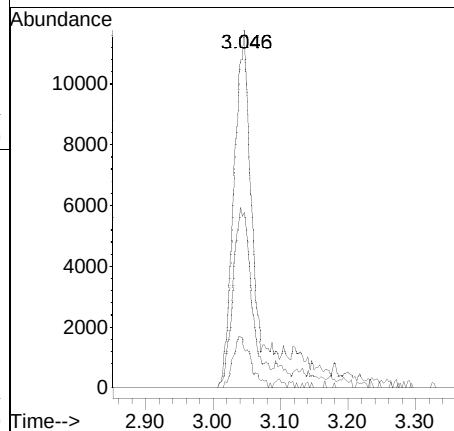
Tgt Ion:	101	Resp:	43836
Ion Ratio	Lower	Upper	
101	100		
151	71.3	60.4	90.6
76	356.1	240.1	360.1

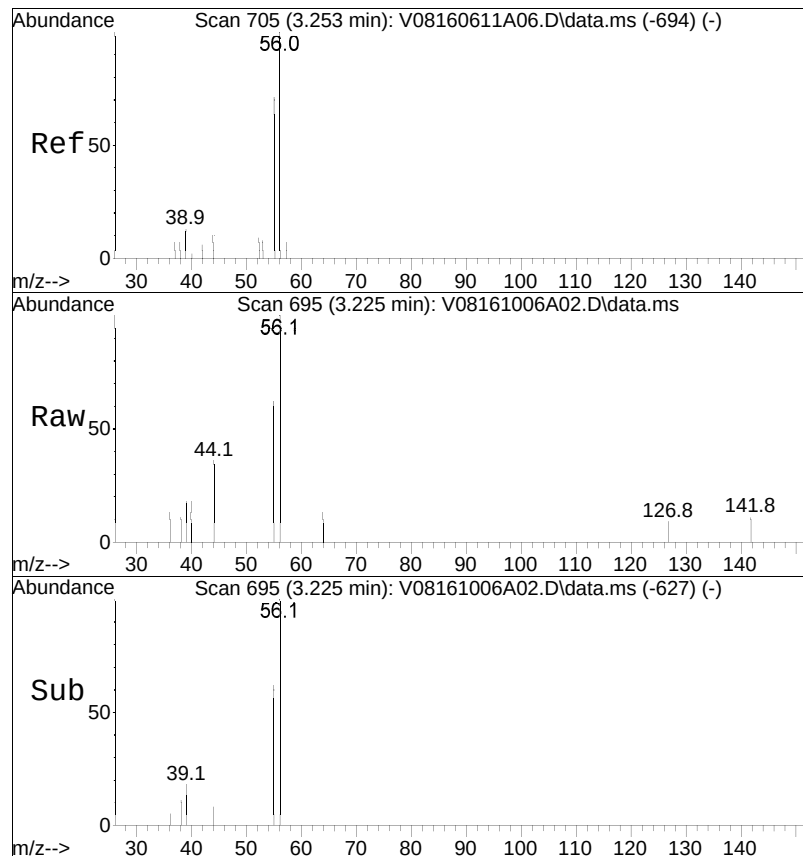




#13
 Iodomethane
 Concen: 6.64 ug/L M1
 RT: 3.046 min Scan# 631
 Delta R.T. 0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

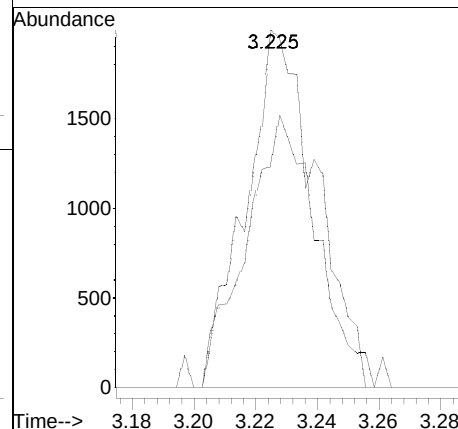
Tgt Ion:	142	Resp:	27612
Ion Ratio	Lower	Upper	
142	100		
127	41.5	33.2	69.0
141	11.2	9.4	19.6

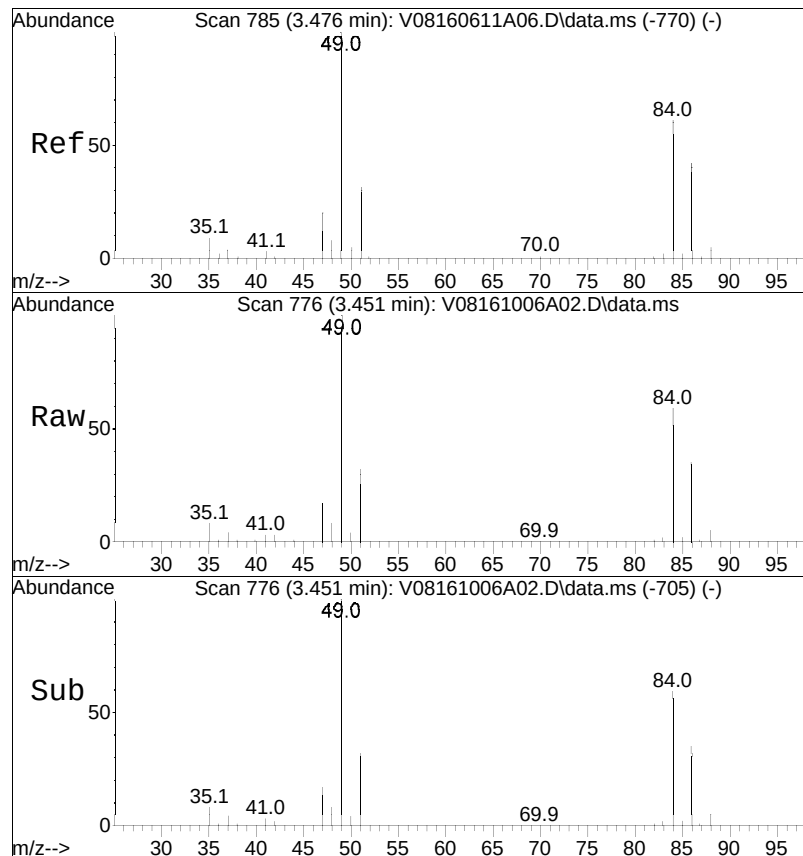




#14
 Acrolein
 Concen: 7.44 ug/L
 RT: 3.225 min Scan# 695
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

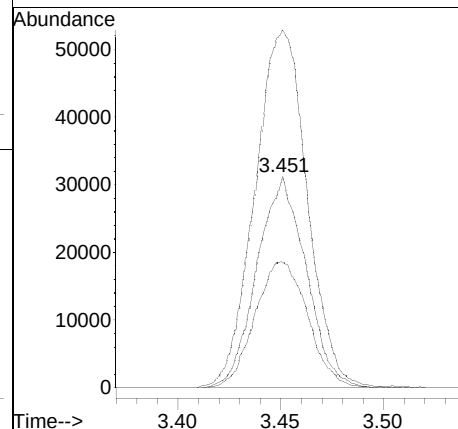
Tgt Ion	Ratio	Lower	Upper
56	100		
55	77.6	52.1	78.1

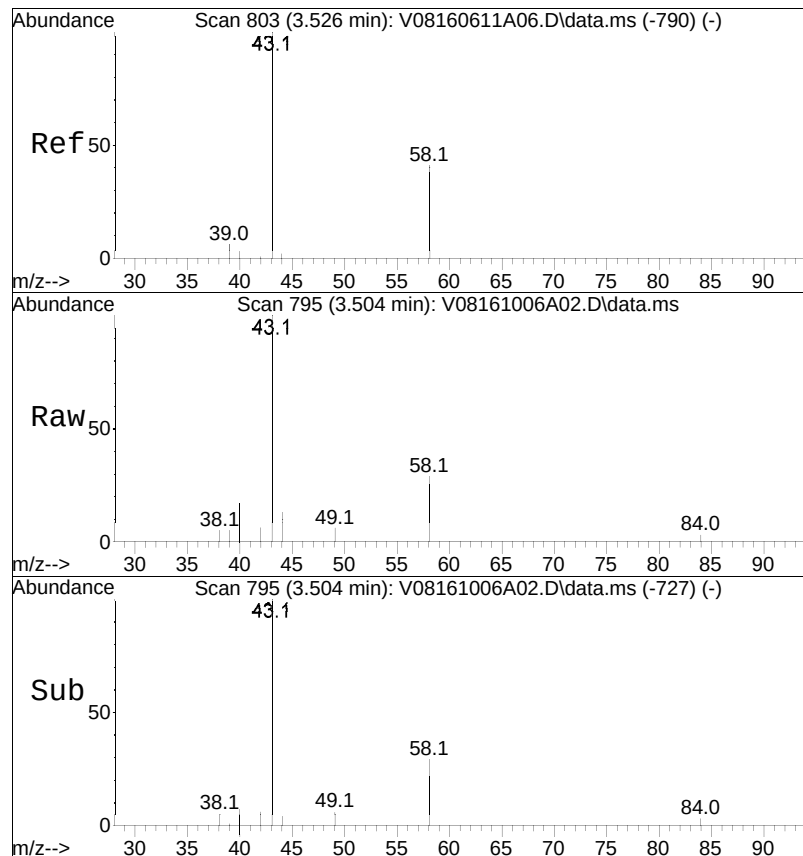




#15
 Methylene chloride
 Concen: 9.89 ug/L
 RT: 3.451 min Scan# 776
 Delta R.T. -0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

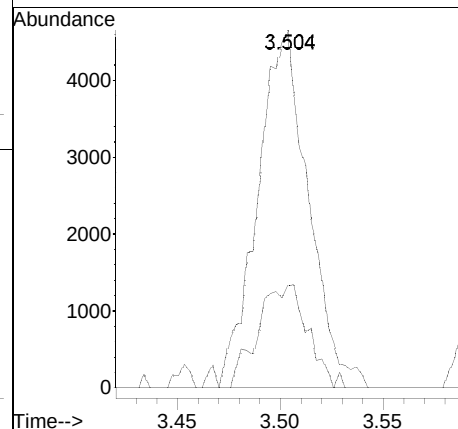
Tgt Ion:	84	Resp:	51451
Ion Ratio	Lower	Upper	
84	100		
86	64.4	41.7	86.7
49	180.6	124.3	258.1

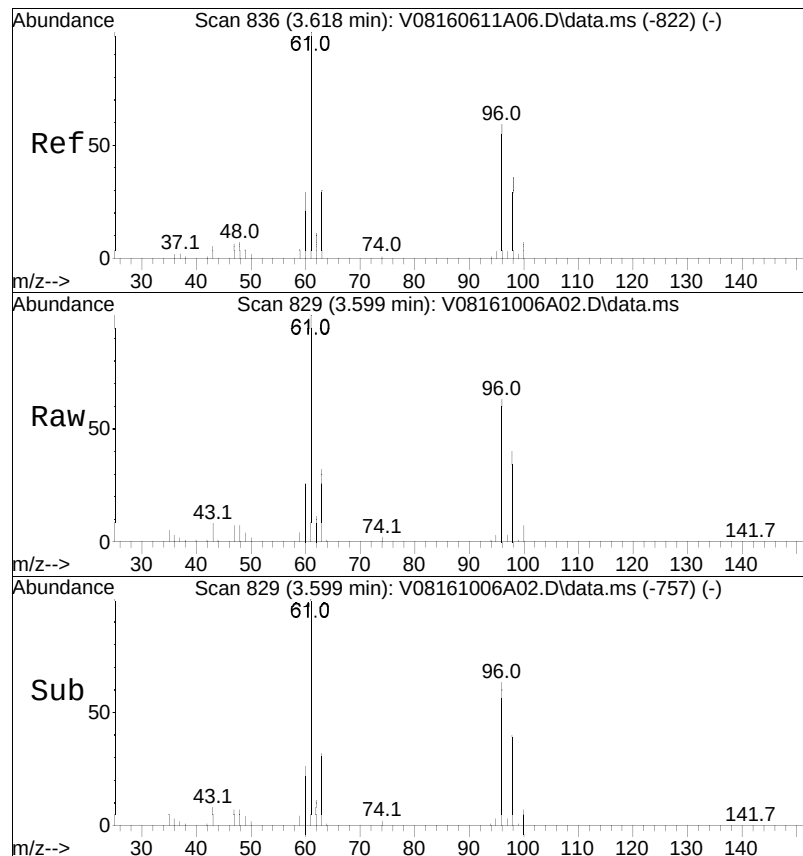




#17
 Acetone
 Concen: 9.78 ug/L
 RT: 3.504 min Scan# 795
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

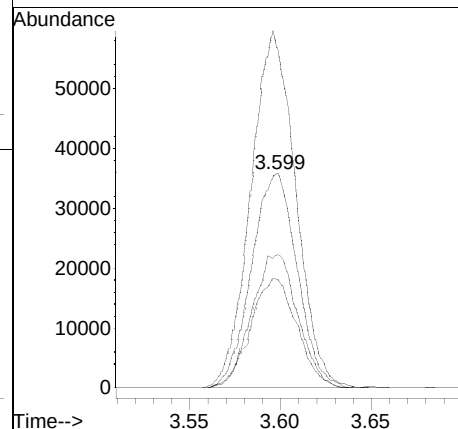
Tgt Ion:	43	58	Ratio	100	28.3	Resp:	8027	Lower	Upper
43	100								
58		28.3						24.5	36.7

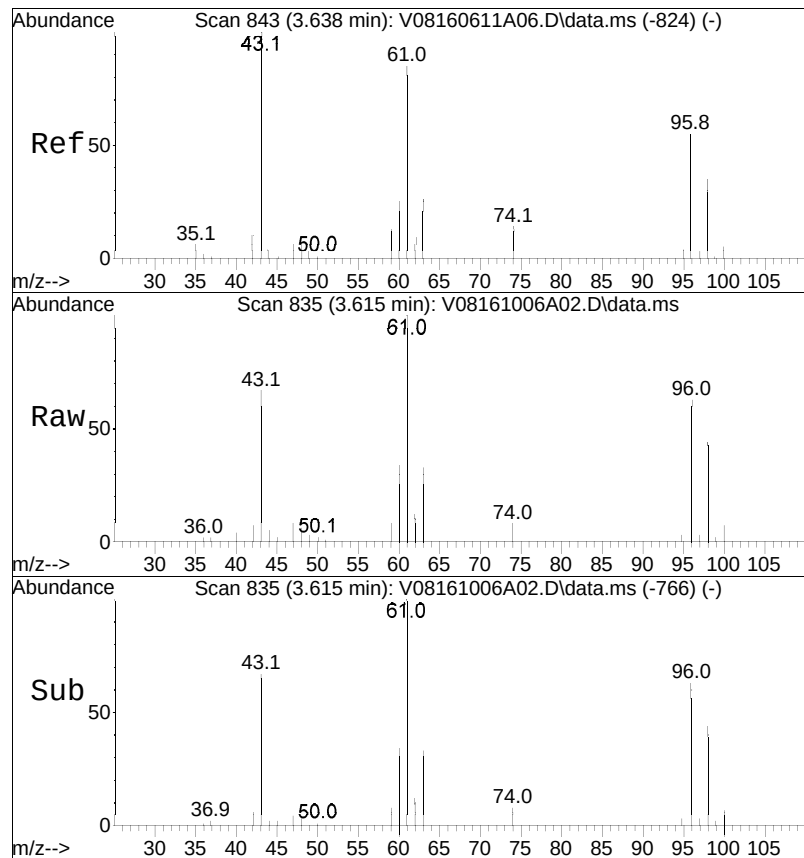




#18
 trans-1,2-Dichloroethene
 Concen: 10.49 ug/L
 RT: 3.599 min Scan# 829
 Delta R.T. -0.000 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

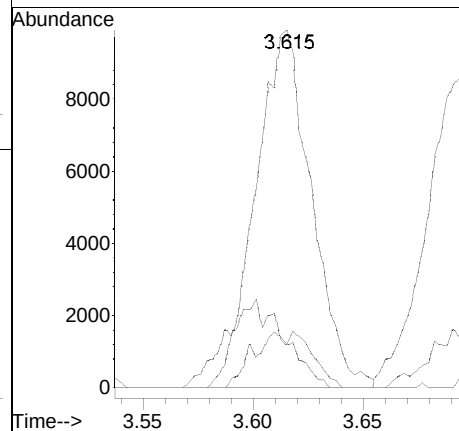
Tgt Ion: 96	Resp: 62338
Ion Ratio	Lower Upper
96 100	
61 162.6	114.1 236.9
98 62.9	42.1 87.3
63 51.9	36.1 74.9

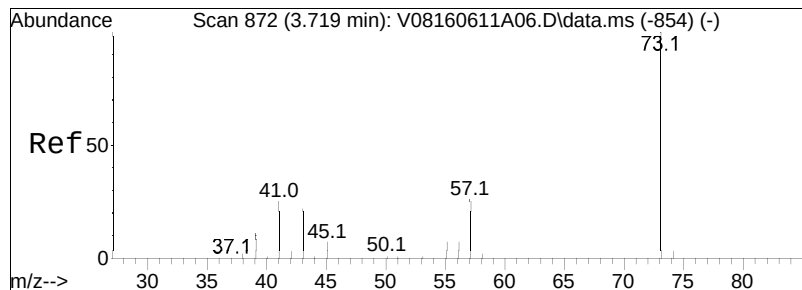




#19
Methyl acetate
Concen: 9.75 ug/L
RT: 3.615 min Scan# 835
Delta R.T. -0.009 min
Lab File: V08161006A02.D
Acq: 6 Oct 2016 9:34 am

Tgt Ion:	43	Resp:	17346
Ion Ratio	Lower	Upper	
43	100		
74	9.4	6.5	9.7
59	26.0	15.6	23.4#





#20

Methyl tert-butyl ether

Concen: 9.20 ug/L

RT: 3.696 min Scan# 864

Delta R.T. -0.006 min

Lab File: V08161006A02.D

Acq: 6 Oct 2016 9:34 am

Tgt Ion: 73 Resp: 70156

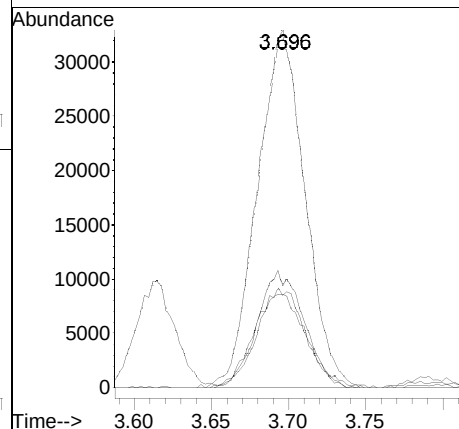
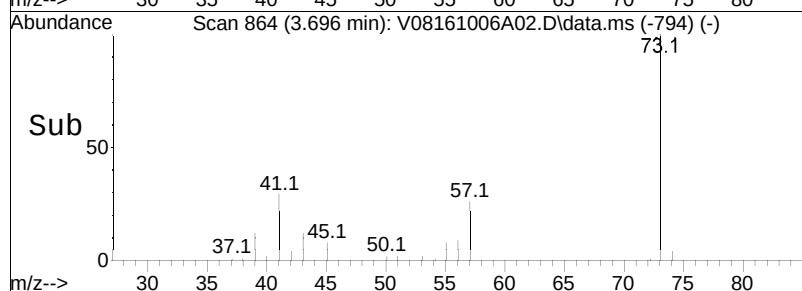
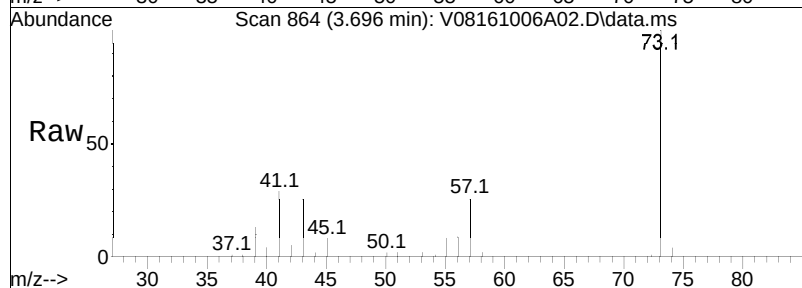
Ion Ratio Lower Upper

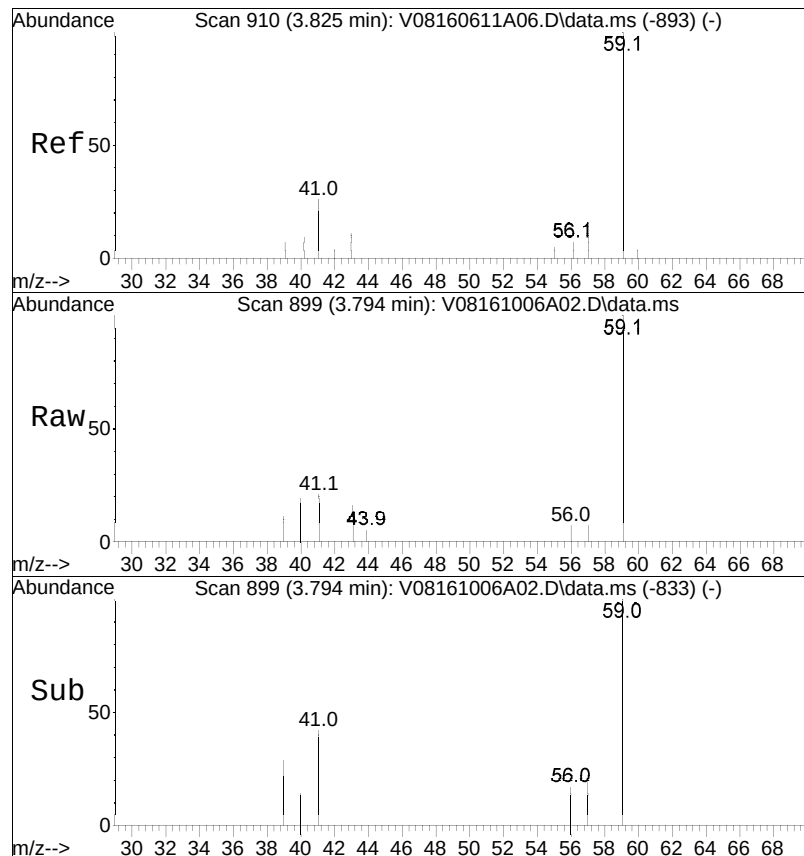
73 100

57 29.1 21.4 44.4

43 27.5 8.1 16.9#

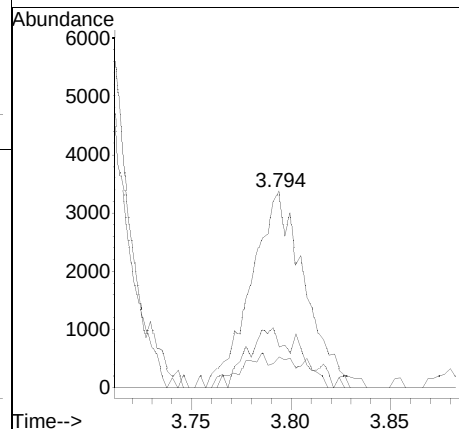
41 33.4 21.7 45.1

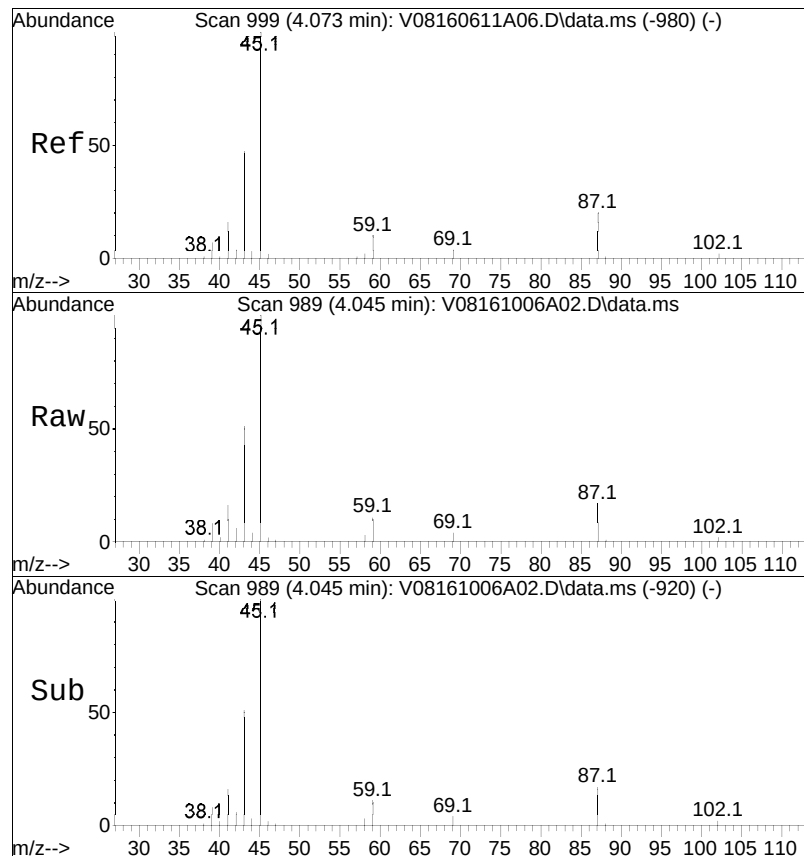




#21
 tert-Butyl alcohol
 Concen: 43.64 ug/L
 RT: 3.794 min Scan# 899
 Delta R.T. -0.016 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

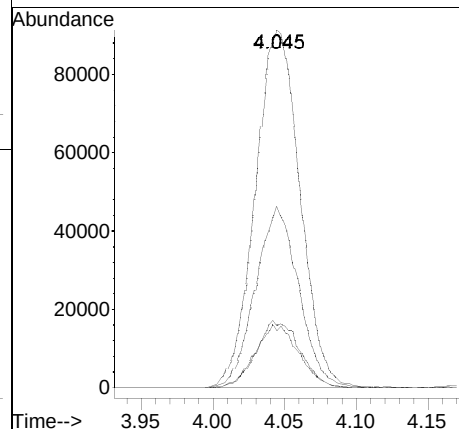
Tgt Ion:	59	Resp:	6293
Ion Ratio	Lower	Upper	
59	100		
41	22.0	22.3	46.3#
43	9.8	0.0	0.0#

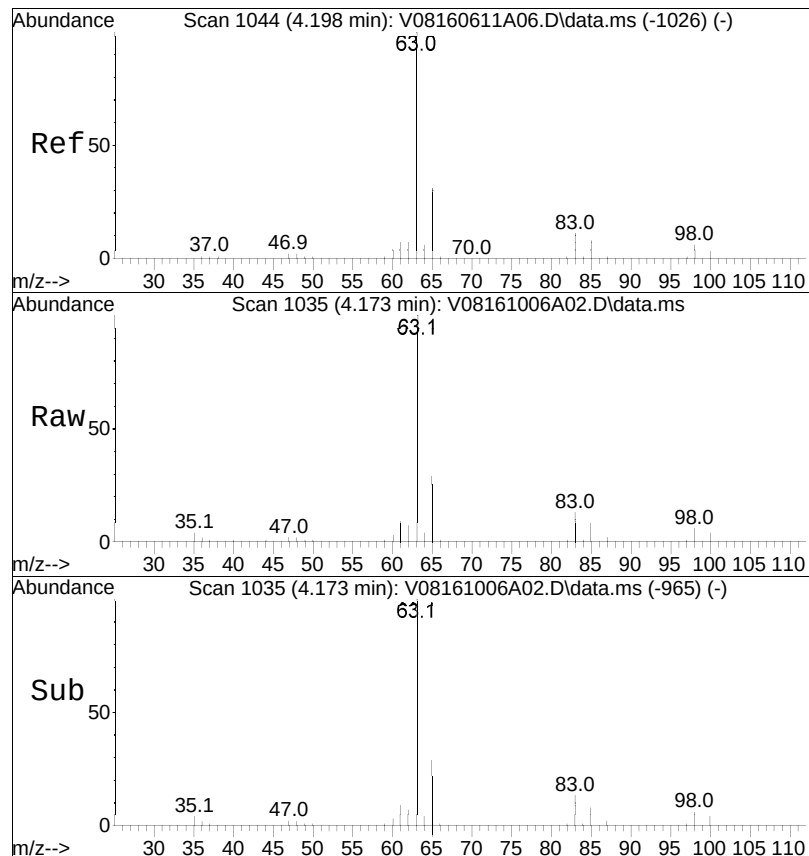




#22
 Diisopropyl ether
 Concen: 9.68 ug/L
 RT: 4.045 min Scan# 989
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

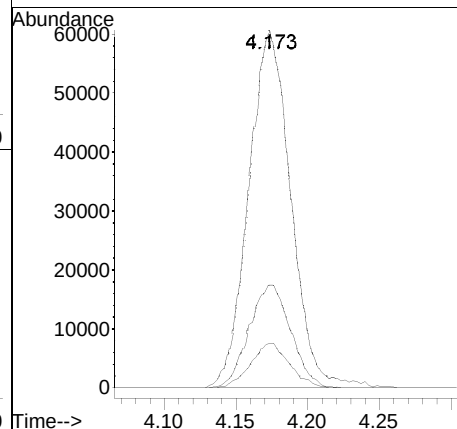
Tgt	Ion: 45	Resp:	196361
Ion	Ratio	Lower	Upper
45	100		
43	49.0	29.1	60.5
87	18.5	11.7	24.3
41	17.3	9.9	20.5

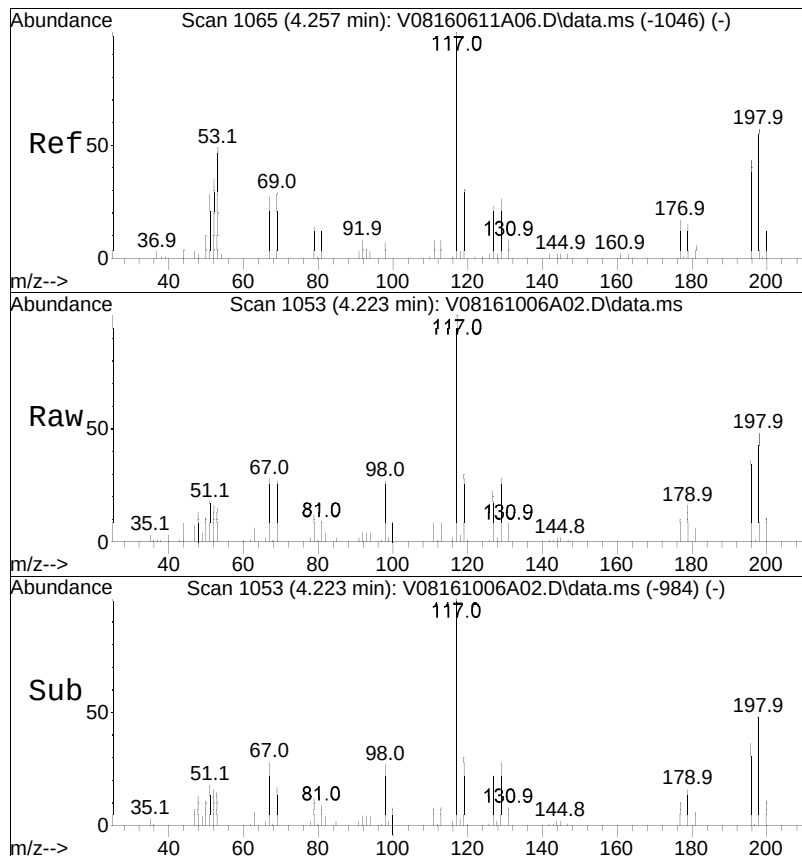




#23
 1,1-Dichloroethane
 Concen: 9.79 ug/L
 RT: 4.173 min Scan# 1035
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

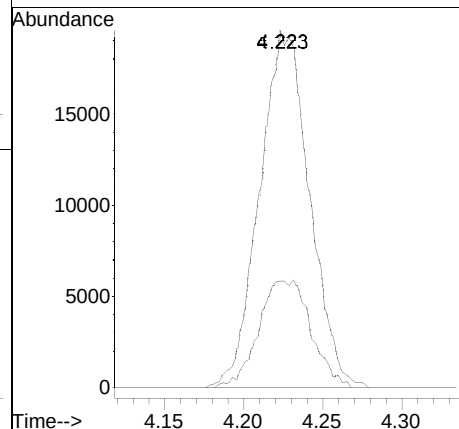
Tgt Ion:	63	Resp:	122746
Ion Ratio	Lower	Upper	
63	100		
65	28.6	8.1	48.1
83	11.6	0.0	30.5

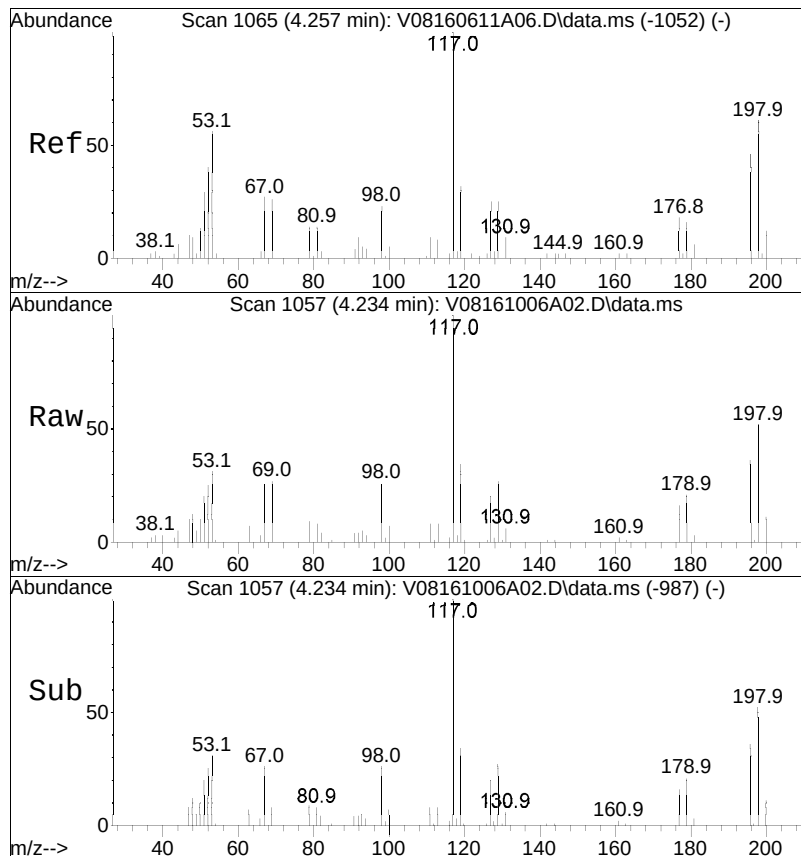




#24
 Halothane
 Concen: 10.29 ug/L
 RT: 4.223 min Scan# 1053
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

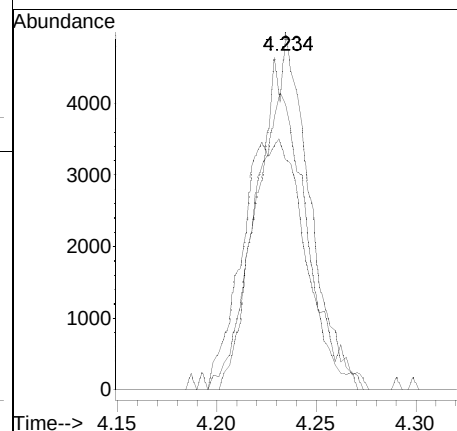
Tgt Ion:117 Resp: 42641
 Ion Ratio Lower Upper
 117 100
 119 31.7 9.9 20.5#

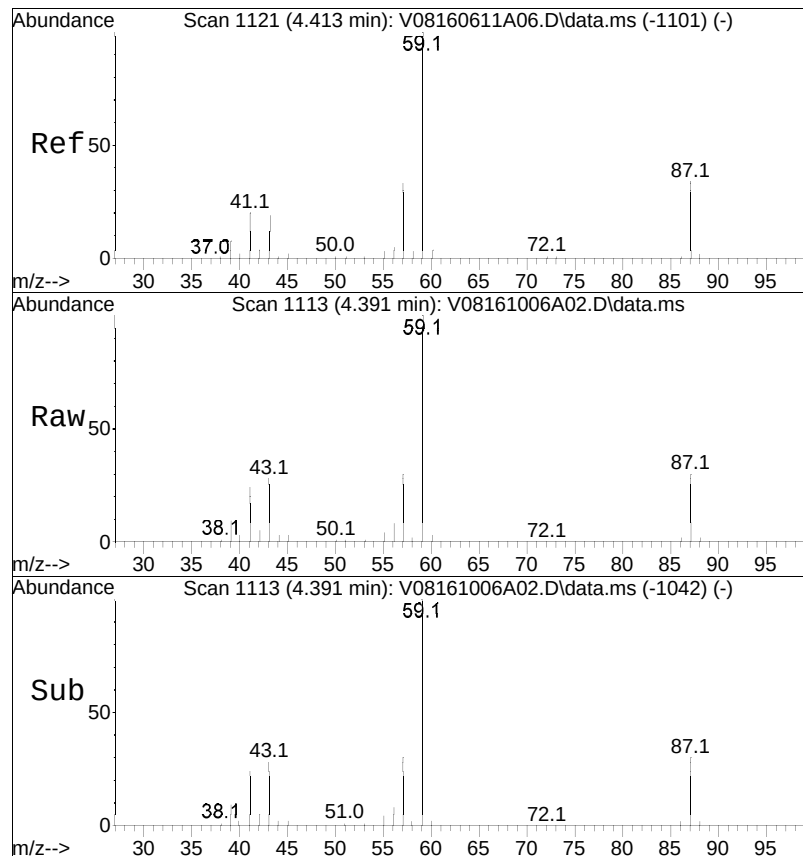




#25
 Acrylonitrile
 Concen: 8.84 ug/L
 RT: 4.234 min Scan# 1057
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

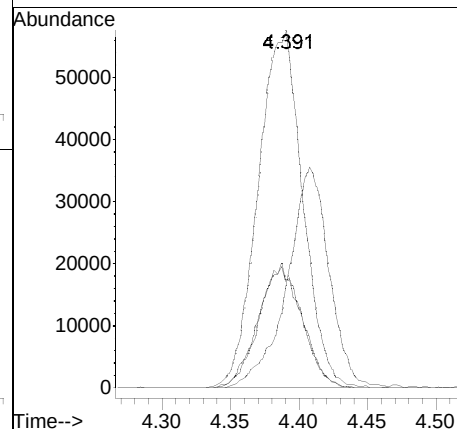
Tgt	Ion	Resp	Lower	Upper
53	100			
52	85.0	69.4	104.0	
51	39.8	47.5	71.3#	

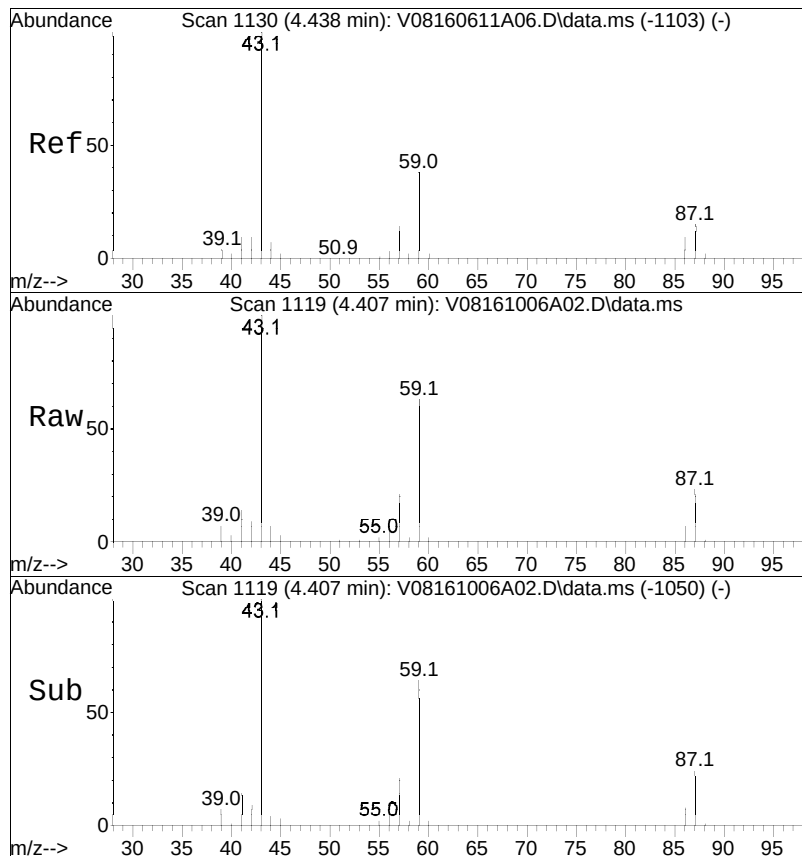




#26
 Ethyl tert-butyl ether
 Concen: 9.14 ug/L
 RT: 4.391 min Scan# 1113
 Delta R.T. -0.002 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

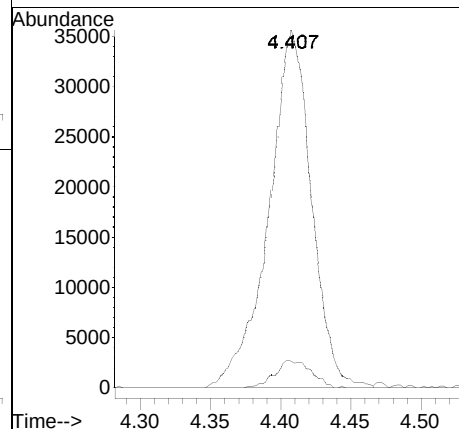
Tgt Ion:	59	Resp:	129460
Ion Ratio	Lower	Upper	
59	100		
87	33.6	20.9	43.5
57	33.7	21.5	44.7
43	58.1	45.8	95.2

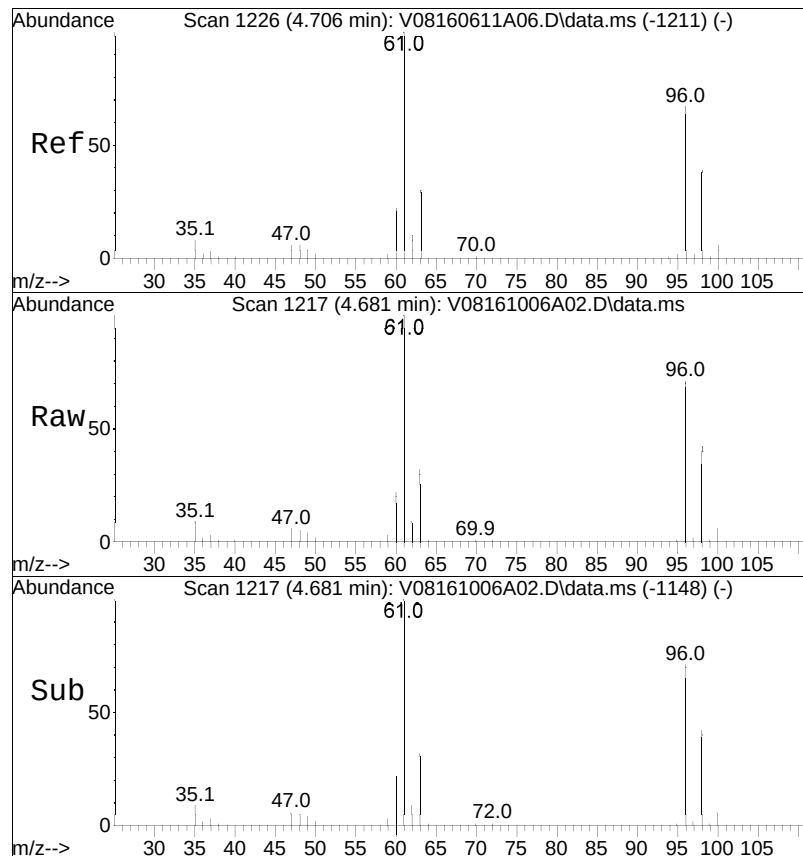




#27
 Vinyl acetate
 Concen: 9.86 ug/L
 RT: 4.407 min Scan# 1119
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

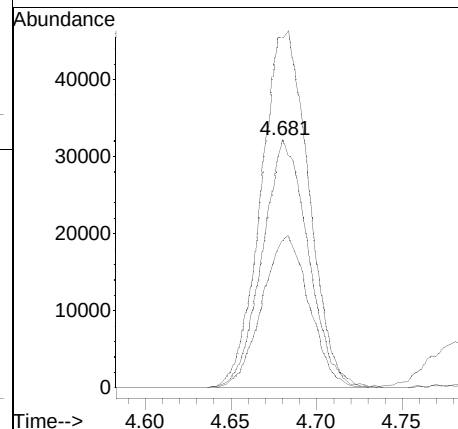
Tgt Ion:	43	86	Ratio	100	6.5	Resp:	75212	Lower	3.4	Upper	5.2#

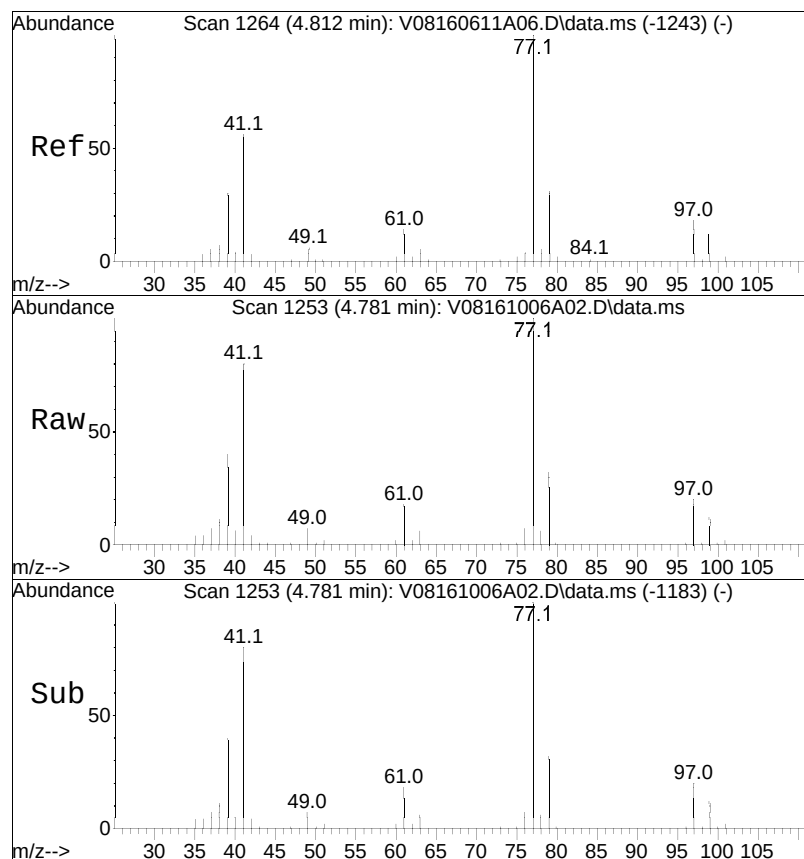




#28
 cis-1,2-Dichloroethene
 Concen: 9.90 ug/L
 RT: 4.681 min Scan# 1217
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

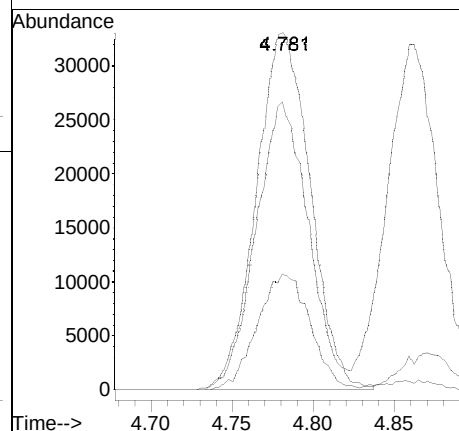
Tgt Ion:	96	Resp:	59338
Ion Ratio	Lower	Upper	
96	100		
61	149.9	127.6	191.4
98	63.3	50.0	75.0

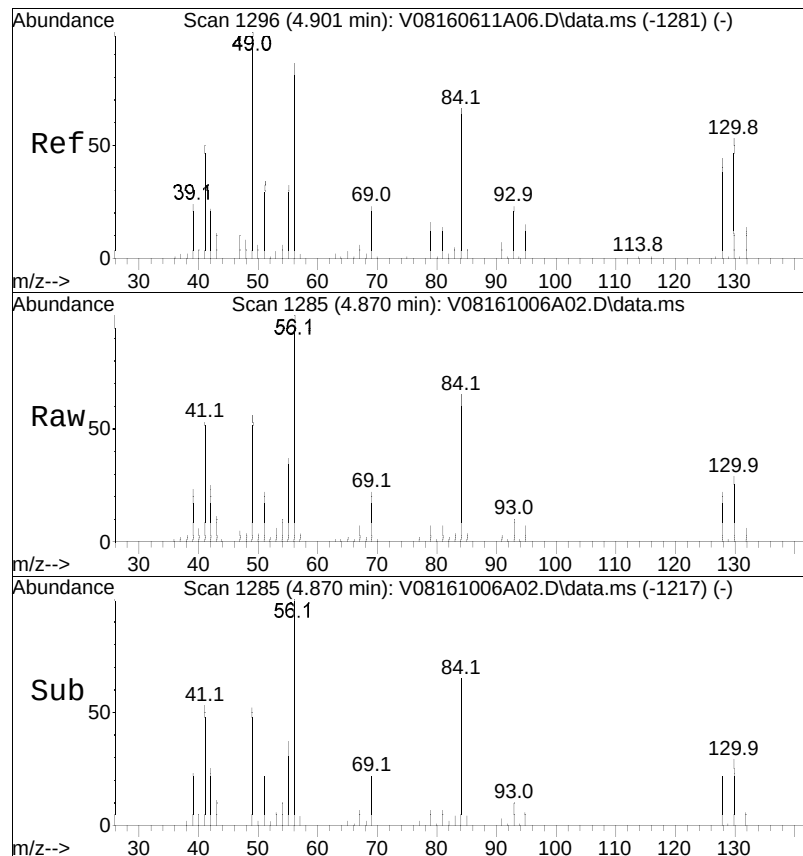




#29
 2,2-Dichloropropane
 Concen: 10.25 ug/L
 RT: 4.781 min Scan# 1253
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

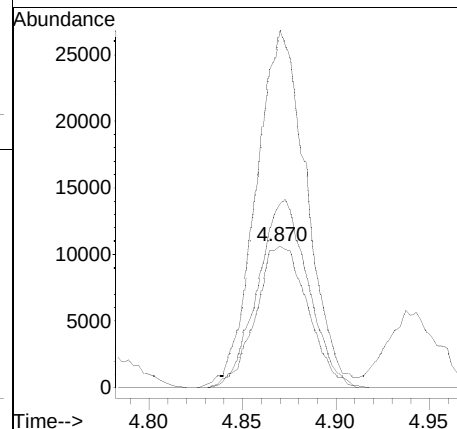
Tgt Ion	Ratio	Lower	Upper
77	100		
41	78.7	52.5	108.9
79	31.8	21.1	43.7

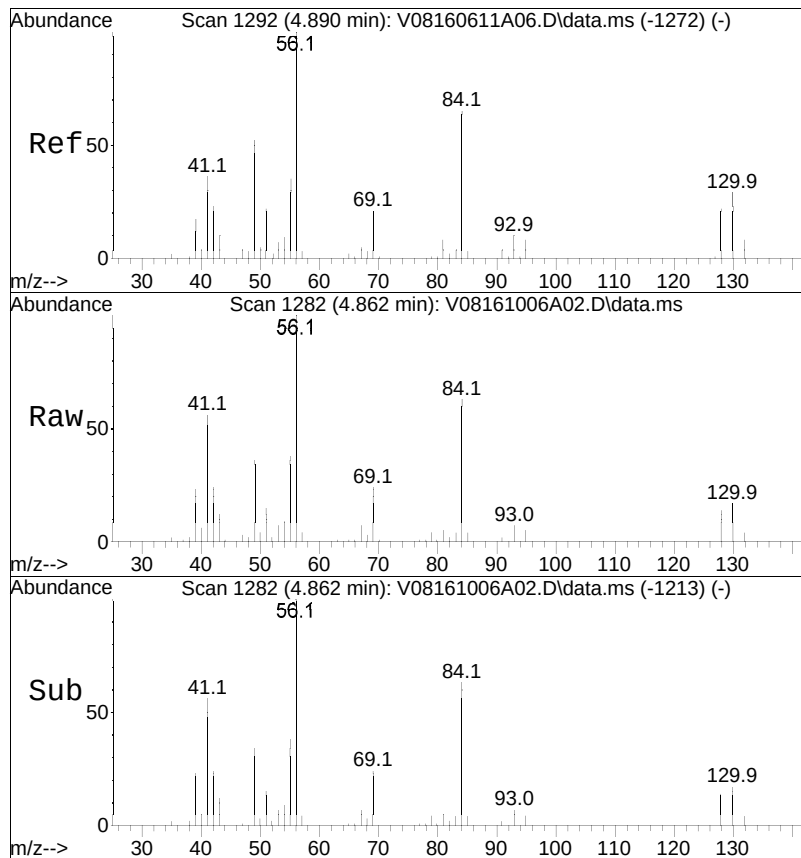




#30
 Bromochloromethane
 Concen: 9.35 ug/L
 RT: 4.870 min Scan# 1285
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

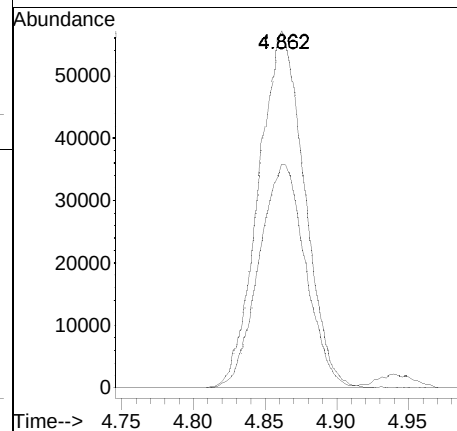
Tgt Ion	Ratio	Lower	Upper
128	100		
49	243.8	224.2	336.4
130	127.4	105.3	157.9

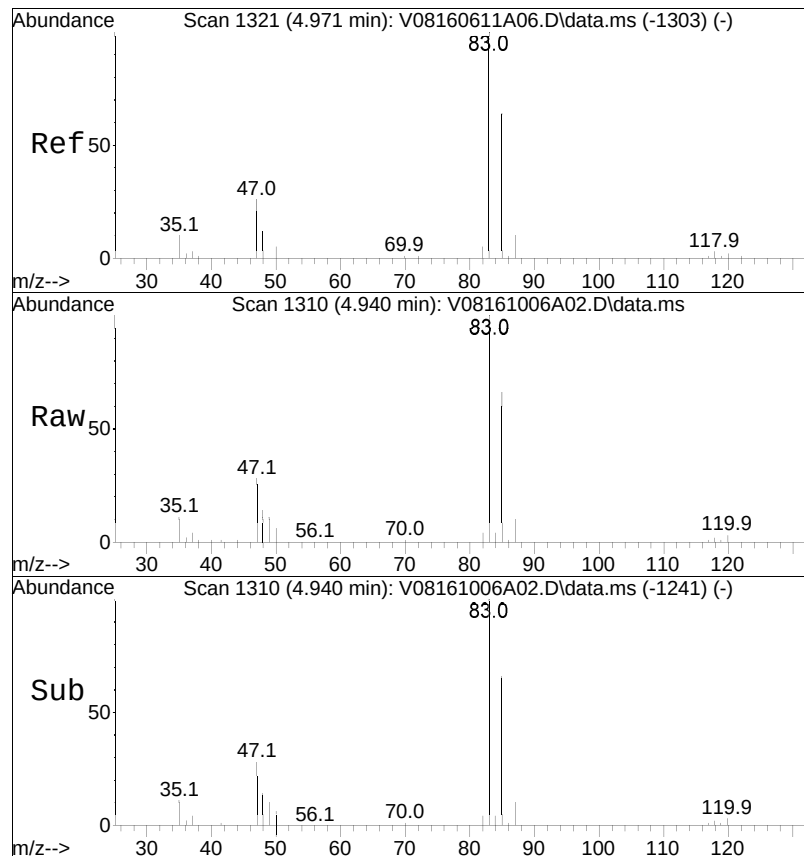




#31
Cyclohexane
Concen: 9.23 ug/L
RT: 4.862 min Scan# 1282
Delta R.T. -0.008 min
Lab File: V08161006A02.D
Acq: 6 Oct 2016 9:34 am

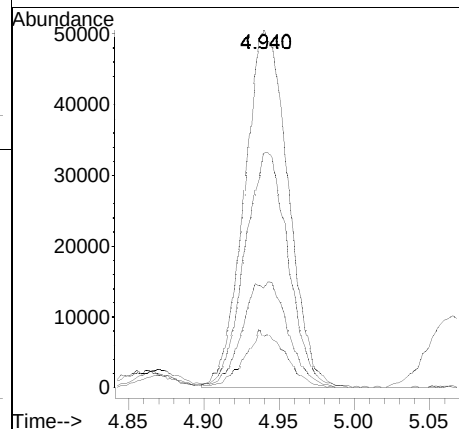
Tgt	Ion	Resp	Lower	Upper
56	100	126683		
84	63.5	37.2	77.4	

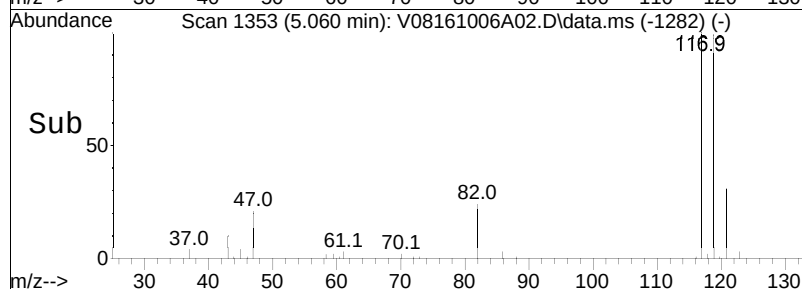
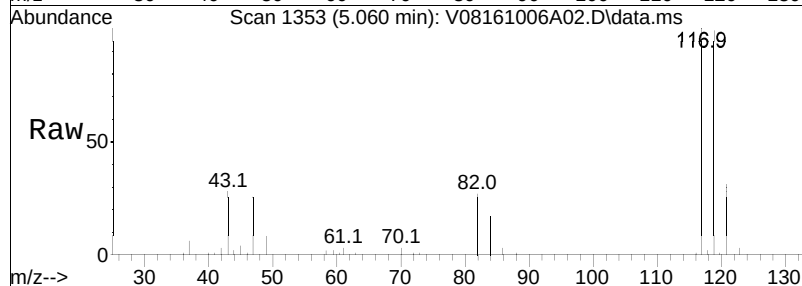
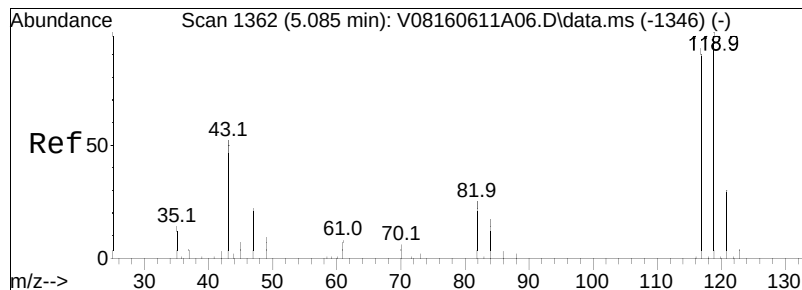




#32
 Chloroform
 Concen: 10.16 ug/L
 RT: 4.940 min Scan# 1310
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

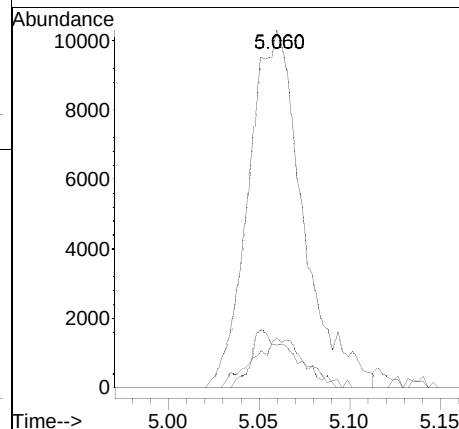
Tgt Ion:	83	Resp:	101944
Ion Ratio	Lower	Upper	
83	100		
85	65.5	42.7	88.7
47	30.8	20.9	43.5
48	15.0	10.5	21.7

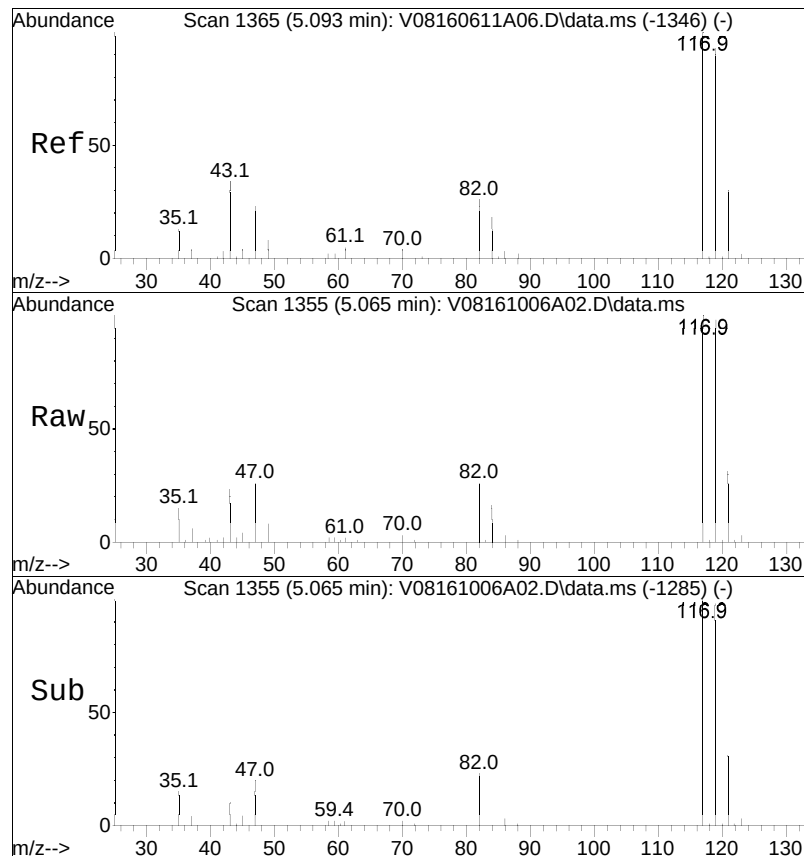




#33
 Ethyl acetate
 Concen: 8.75 ug/L
 RT: 5.060 min Scan# 1353
 Delta R.T. -0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

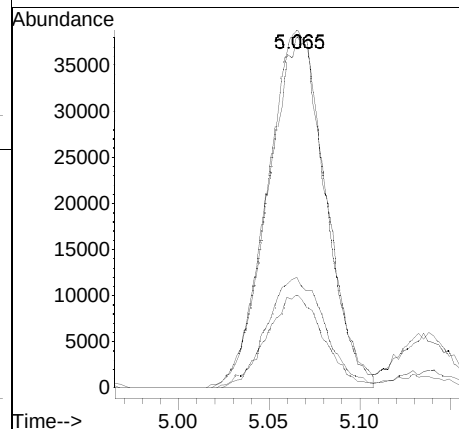
Tgt Ion:	43	Resp:	21312
Ion Ratio	Lower	Upper	
43	100		
45	14.5	10.5	15.7
70	11.9	3.7	5.5#

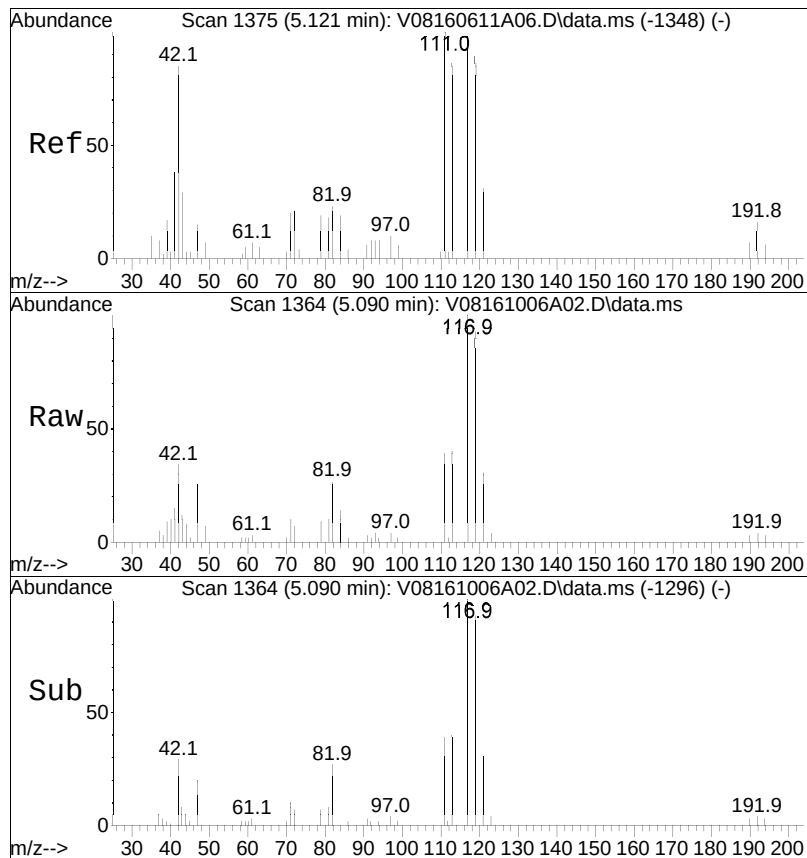




#34
 Carbon tetrachloride
 Concen: 9.78 ug/L
 RT: 5.065 min Scan# 1355
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

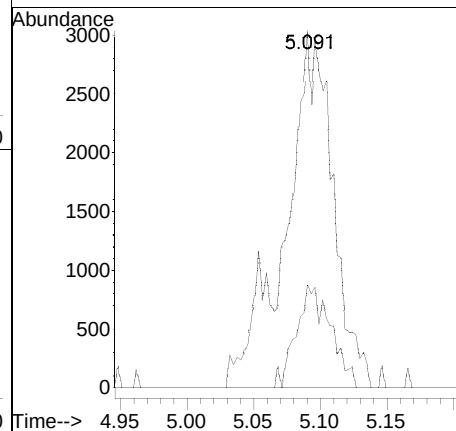
Tgt Ion:	117	Resp:	85998
Ion Ratio	Lower	Upper	
117	100		
119	97.1	62.9	130.5
121	31.0	20.0	41.4
82	25.4	16.7	34.7

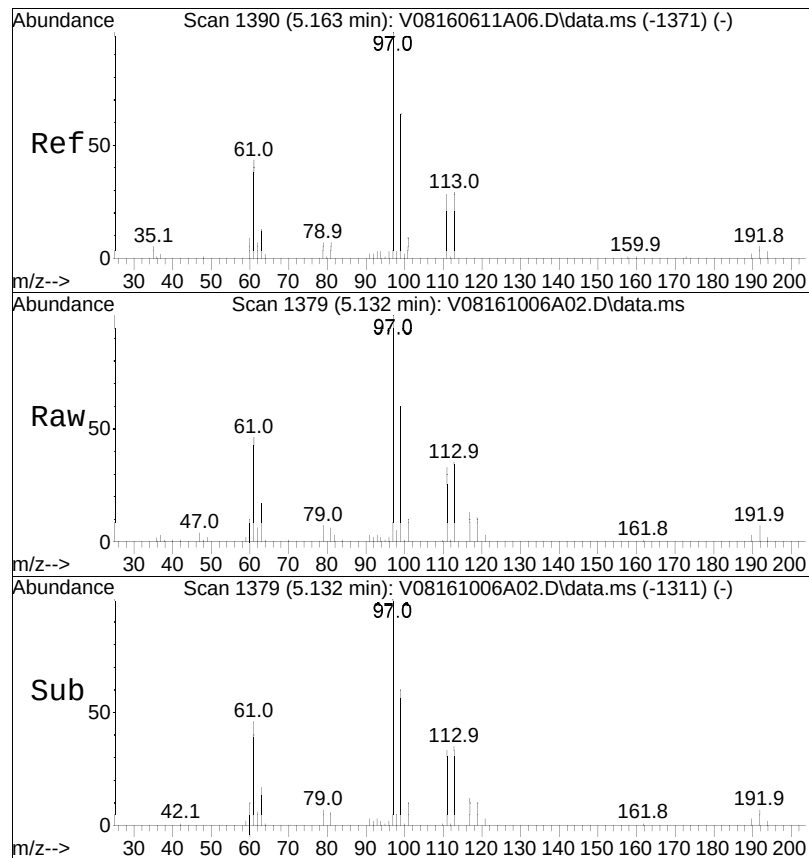




#35
Tetrahydrofuran
Concen: 8.49 ug/L M1
RT: 5.090 min Scan# 1364
Delta R.T. -0.012 min
Lab File: V08161006A02.D
Acq: 6 Oct 2016 9:34 am

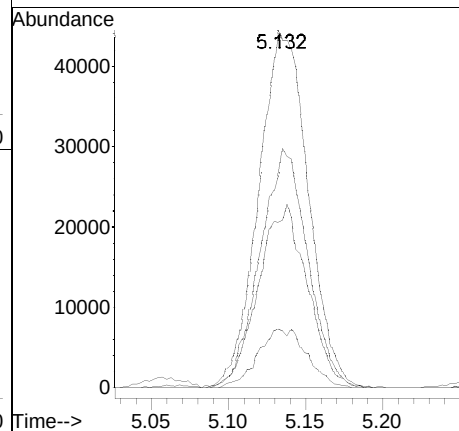
Tgt Ion: 42 Resp: 7521
Ion Ratio Lower Upper
42 100
71 20.9 17.4 26.2

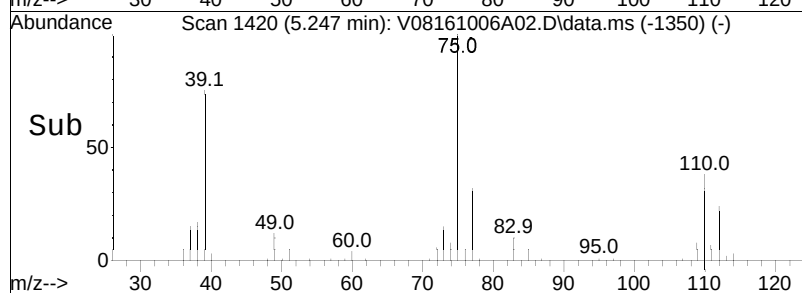
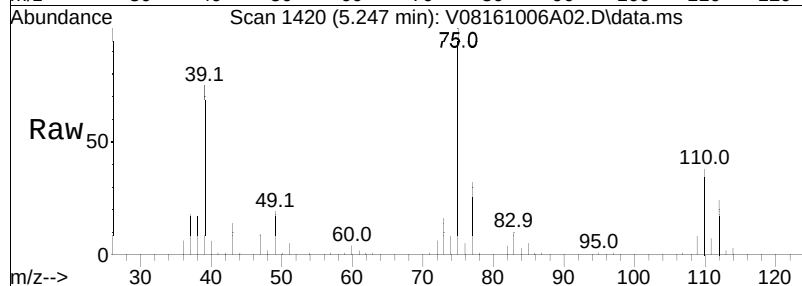
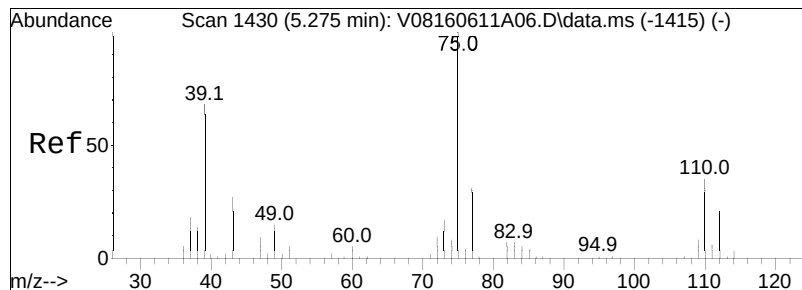




#37
 1,1,1-Trichloroethane
 Concen: 10.31 ug/L
 RT: 5.132 min Scan# 1379
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt Ion:	97	Resp:	98791
Ion Ratio	Lower	Upper	
97	100		
99	64.5	40.3	83.7
61	50.9	34.3	71.1
63	16.4	6.0	12.4#





#39

2-Butanone

Concen: 9.52 ug/L

RT: 5.247 min Scan# 1420

Delta R.T. -0.005 min

Lab File: V08161006A02.D

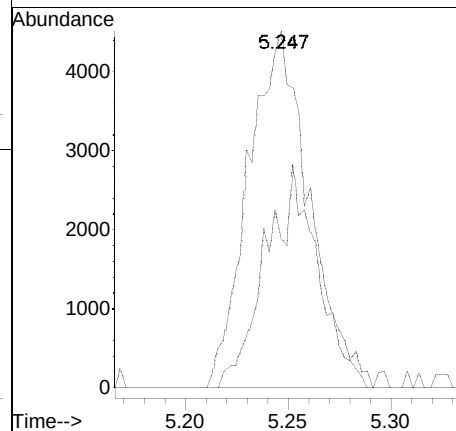
Acq: 6 Oct 2016 9:34 am

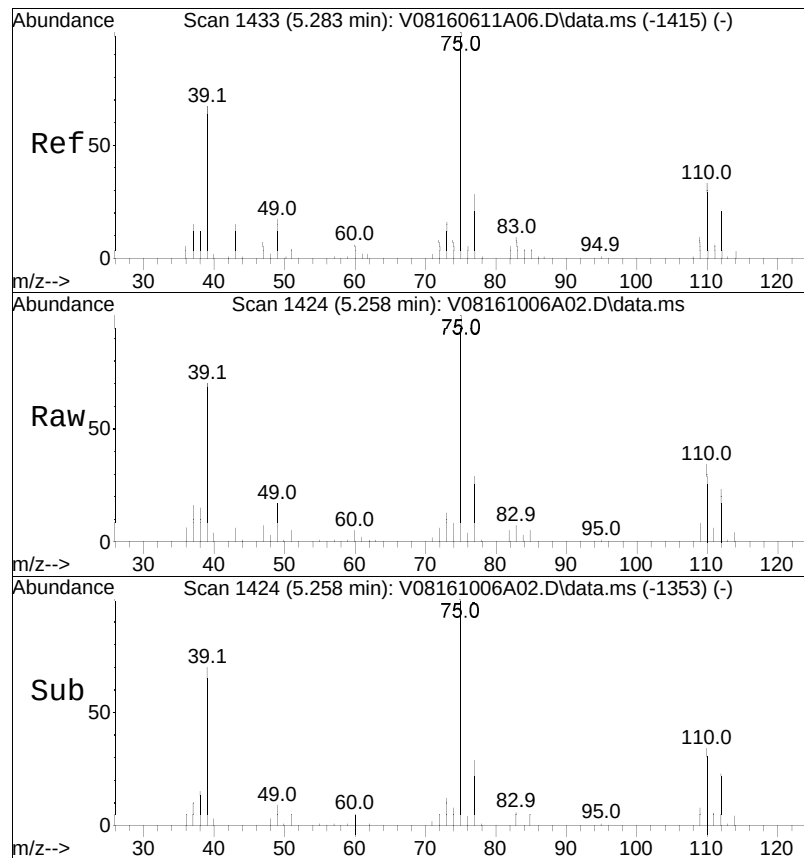
Tgt Ion: 43 Resp: 9270

Ion Ratio Lower Upper

43 100

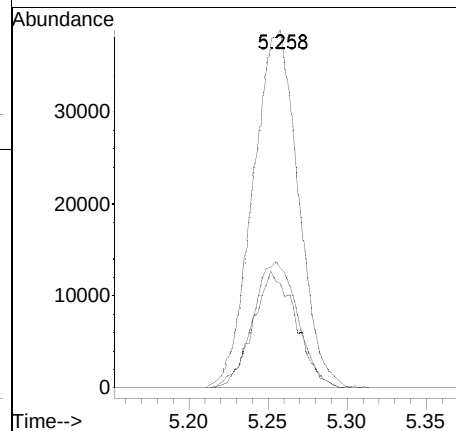
72 53.0 30.0 45.0#

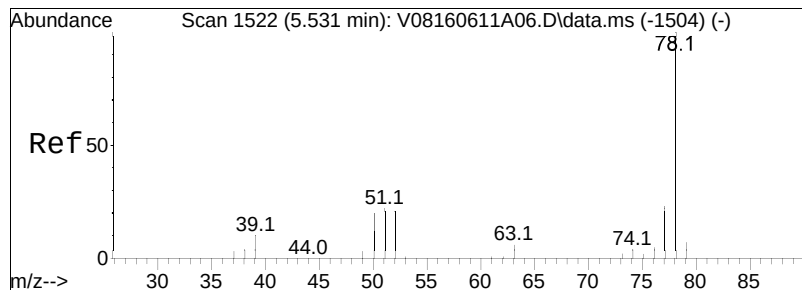




#40
 1,1-Dichloropropene
 Concen: 9.55 ug/L
 RT: 5.258 min Scan# 1424
 Delta R.T. -0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

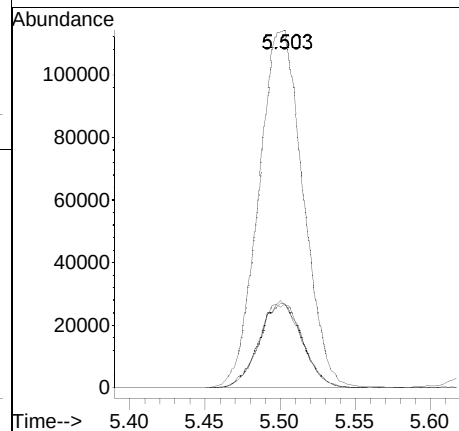
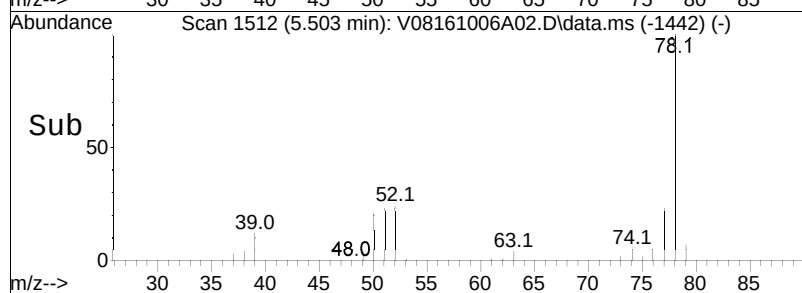
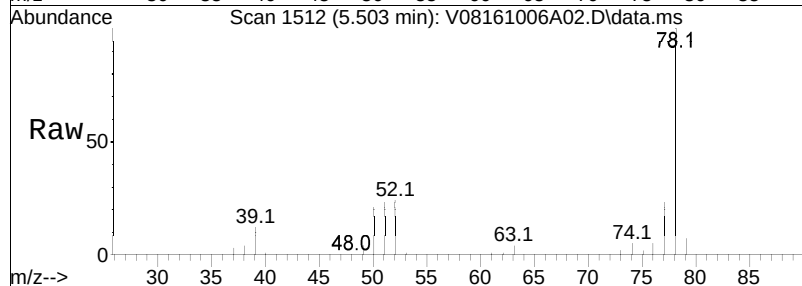
Tgt	Ion	Ratio	Lower	Upper
75	100			
110	35.1	22.9	47.7	
77	31.1	20.3	42.3	

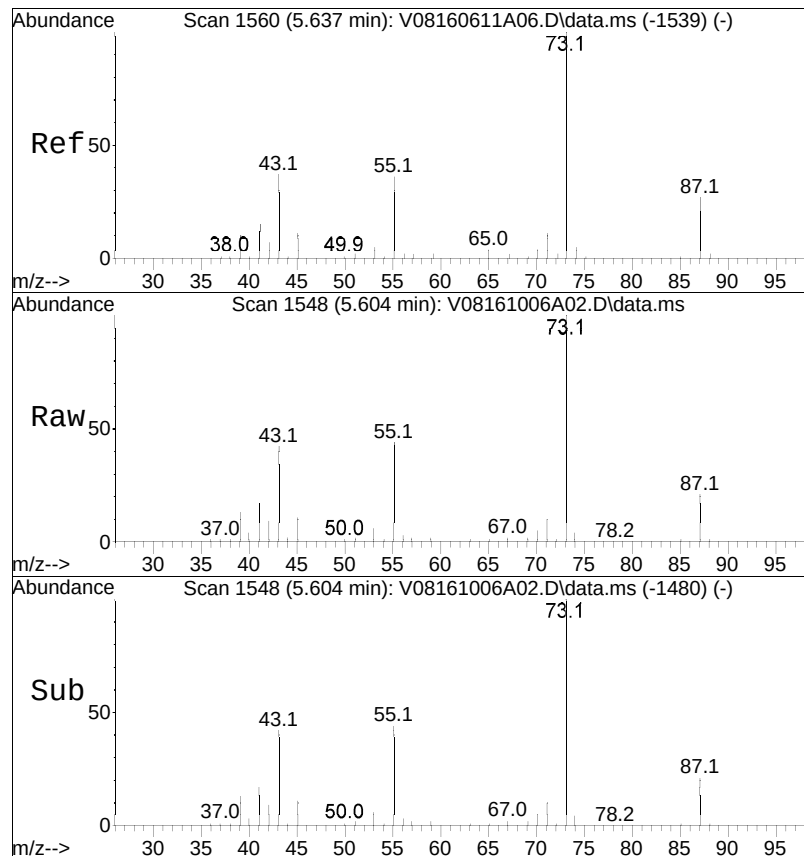




#41
Benzene
Concen: 9.86 ug/L
RT: 5.503 min Scan# 1512
Delta R.T. -0.006 min
Lab File: V08161006A02.D
Acq: 6 Oct 2016 9:34 am

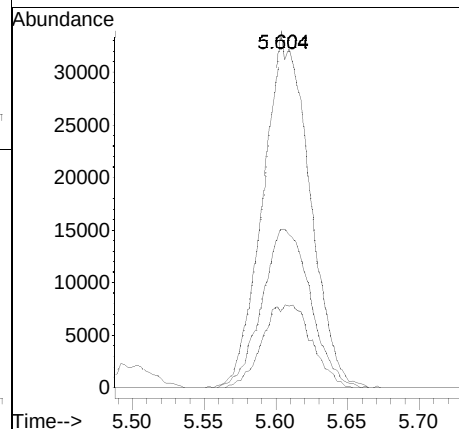
Tgt Ion: 78	Resp: 232485
Ion Ratio	Lower Upper
78 100	
77 23.4	14.9 30.9
51 23.9	15.7 32.7
52 23.1	15.8 32.8

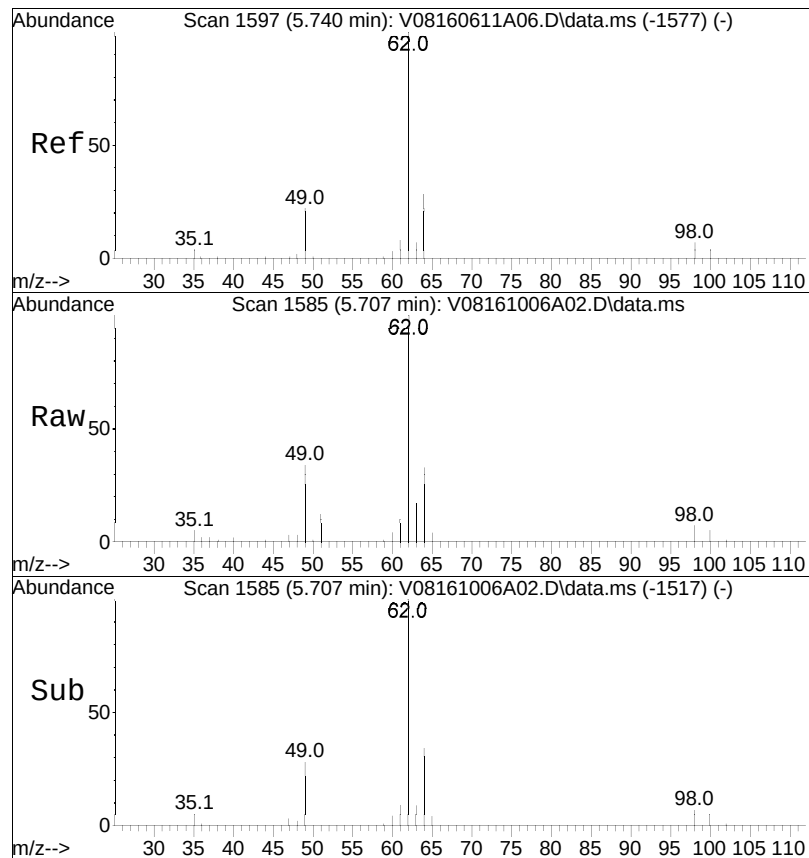




#42
 tert-Amyl methyl ether
 Concen: 8.76 ug/L
 RT: 5.604 min Scan# 1548
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

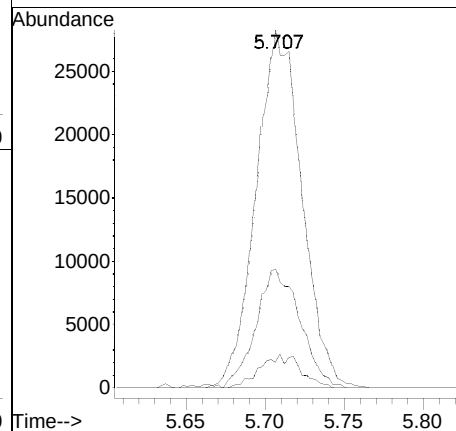
Tgt Ion	Ratio	Lower	Upper
73	100		
55	46.9	32.8	68.0
87	10.6	9.4	19.4

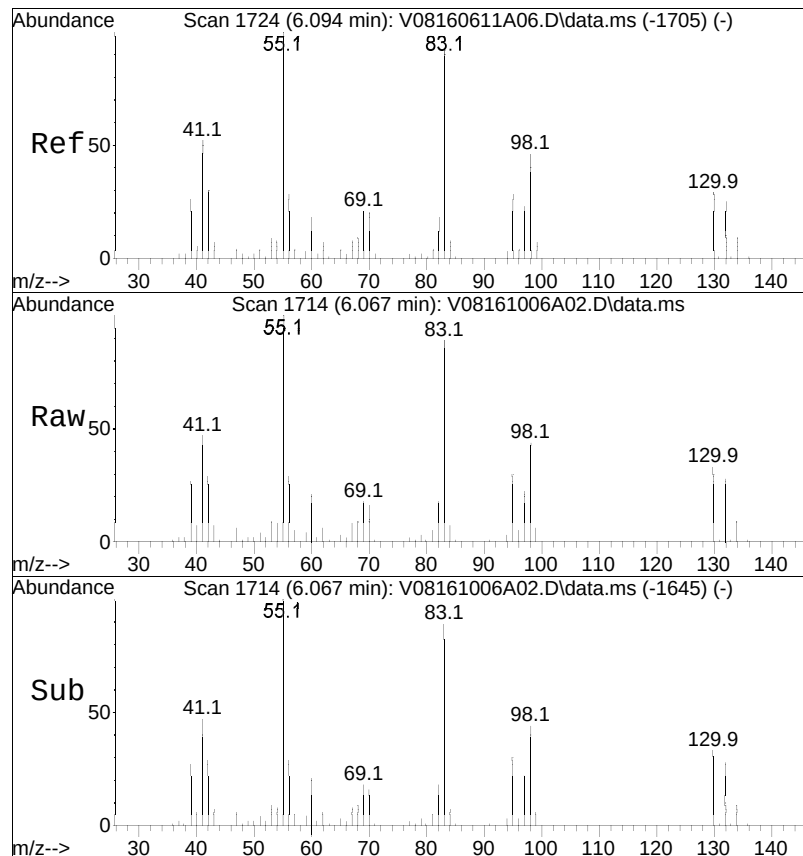




#44
 1,2-Dichloroethane
 Concen: 9.28 ug/L
 RT: 5.707 min Scan# 1585
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

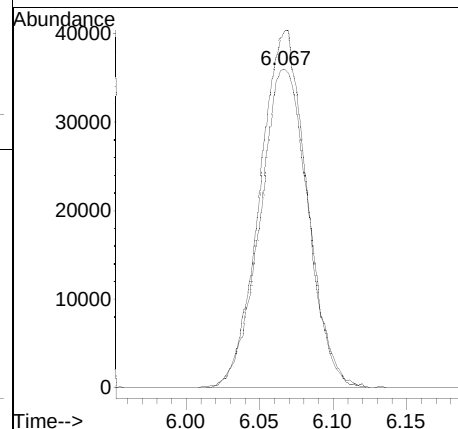
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	56358		
64	32.1		10.9	50.9
98	5.1		0.0	23.4

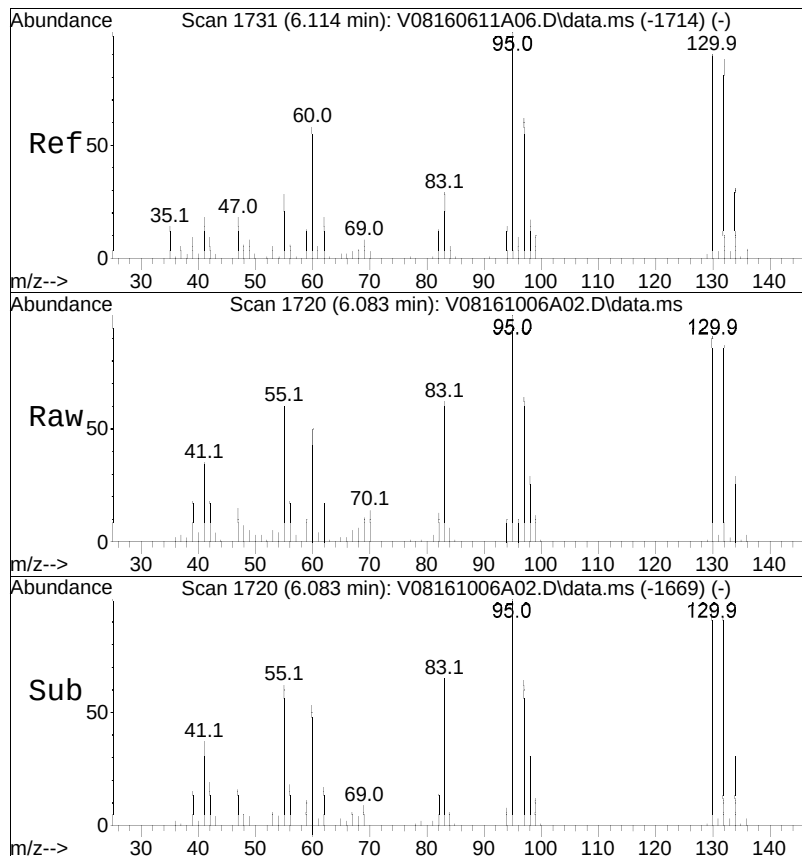




#47
 Methyl cyclohexane
 Concen: 8.53 ug/L
 RT: 6.067 min Scan# 1714
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

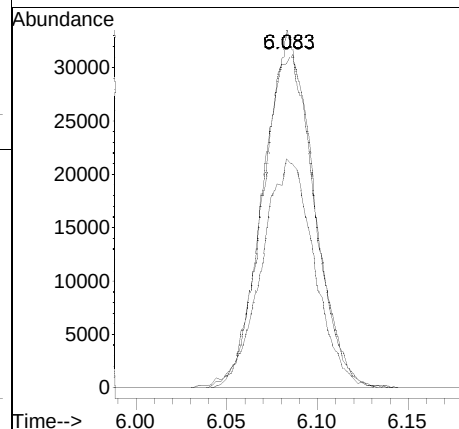
Tgt Ion:	83	Resp:	80987
Ion Ratio	Lower	Upper	
83	100		
55	110.4	91.3	136.9

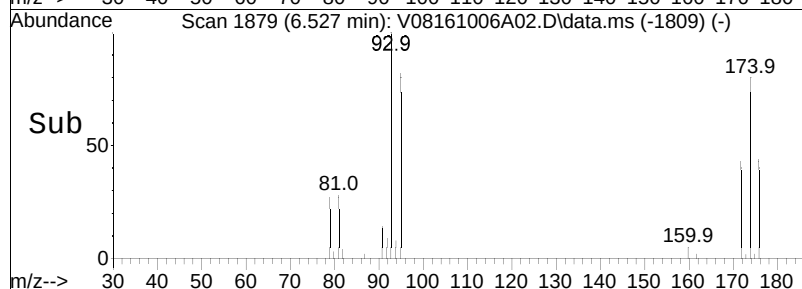
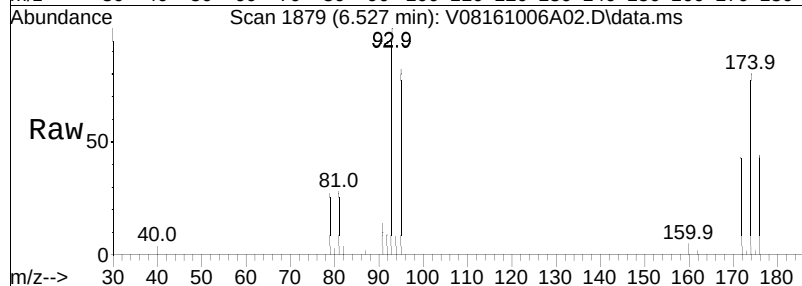
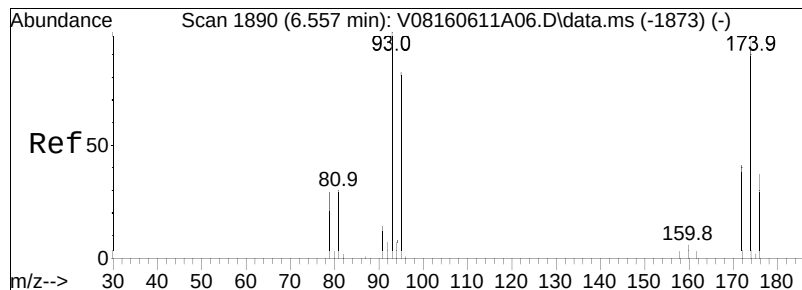




#48
 Trichloroethene
 Concen: 10.00 ug/L
 RT: 6.083 min Scan# 1720
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

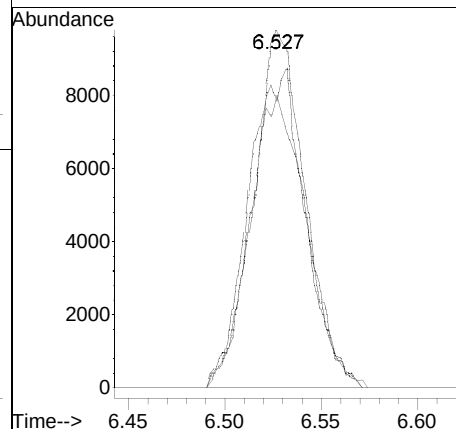
Tgt Ion:	95	Resp:	63500
Ion Ratio	Lower	Upper	
95	100		
97	68.3	55.1	82.7
130	99.4	77.3	115.9

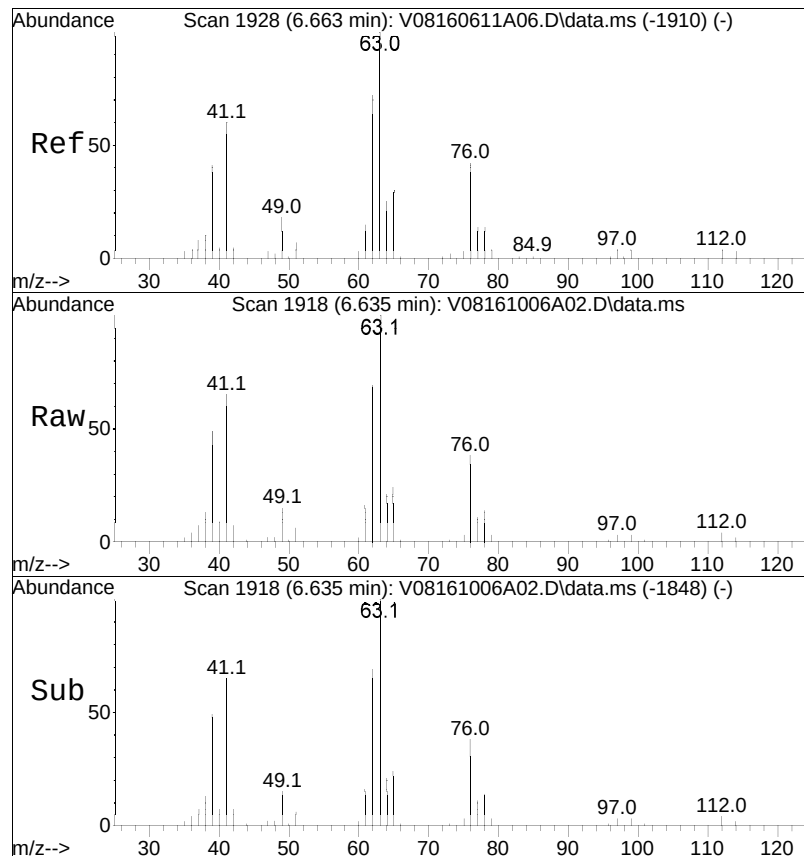




#50
 Dibromomethane
 Concen: 9.27 ug/L
 RT: 6.527 min Scan# 1879
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

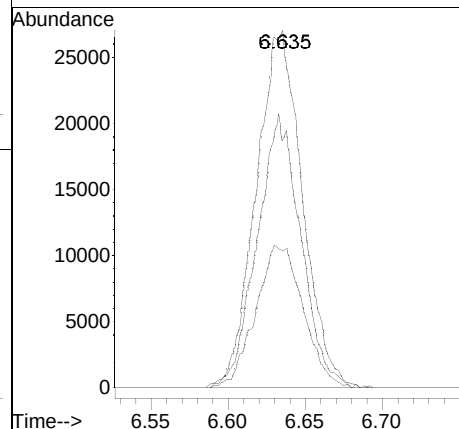
Tgt Ion:	93	Resp:	19155
Ion Ratio	Lower	Upper	
93	100		
95	84.3	66.7	100.1
174	88.8	67.9	101.9

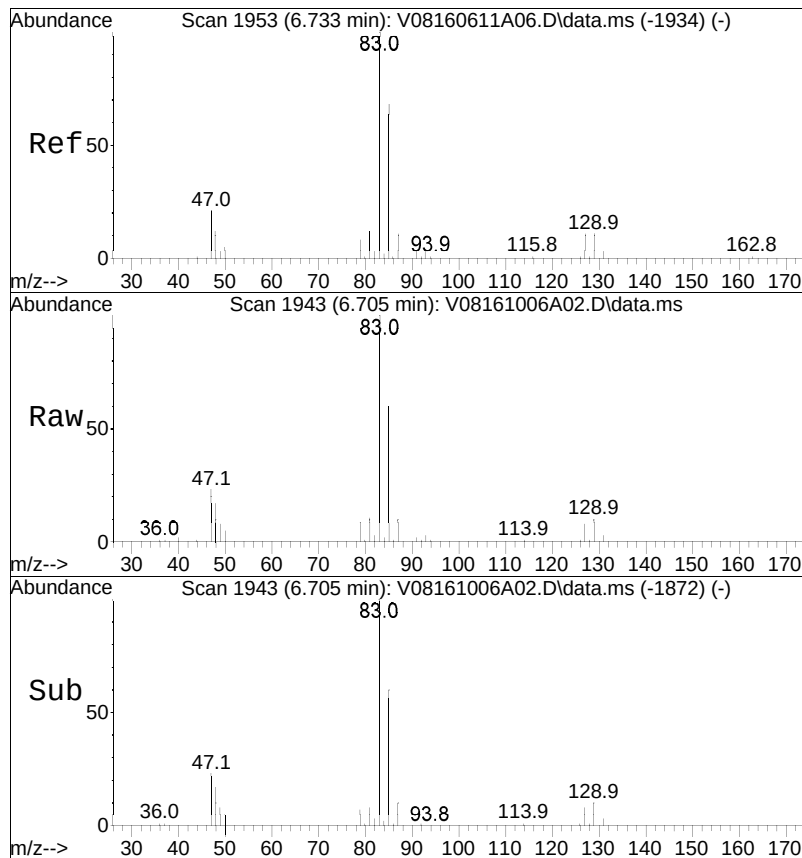




#51
 1,2-Dichloropropane
 Concen: 9.26 ug/L
 RT: 6.635 min Scan# 1918
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt	Ion	Ratio	Lower	Upper
63	100			
62	72.1	57.8	86.6	
76	41.0	28.0	42.0	





#54

Bromodichloromethane

Concen: 9.77 ug/L

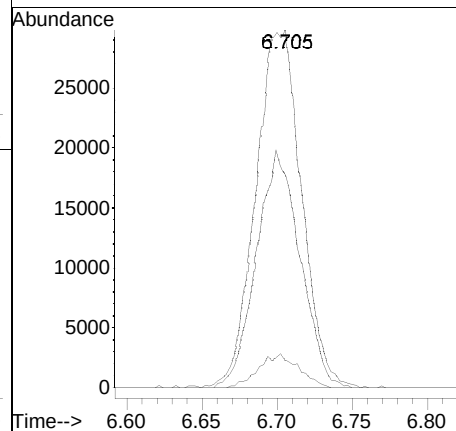
RT: 6.705 min Scan# 1943

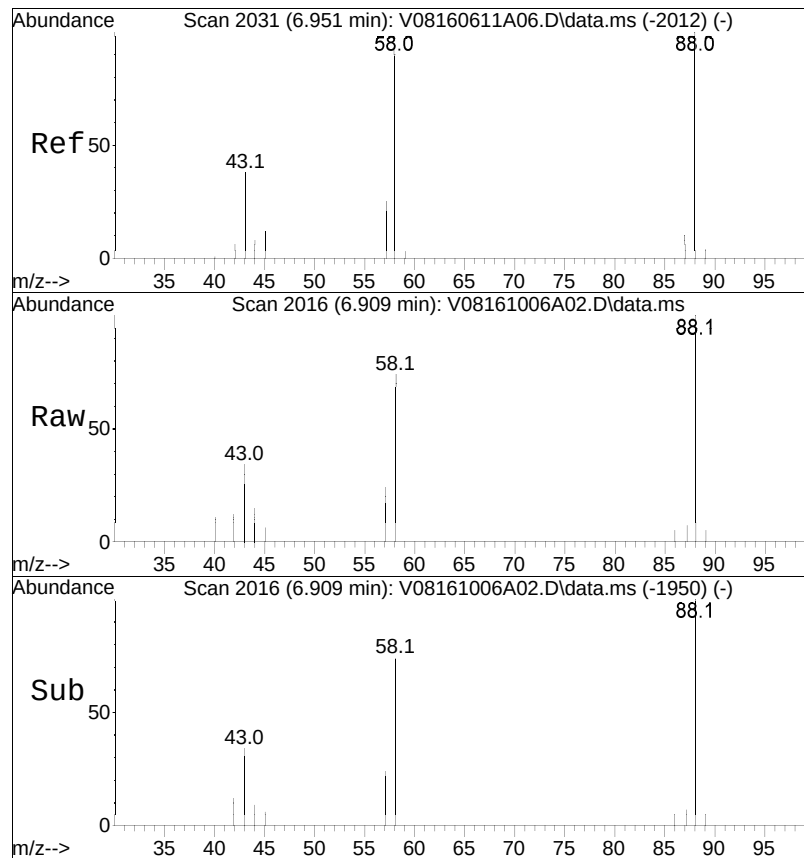
Delta R.T. -0.003 min

Lab File: V08161006A02.D

Acq: 6 Oct 2016 9:34 am

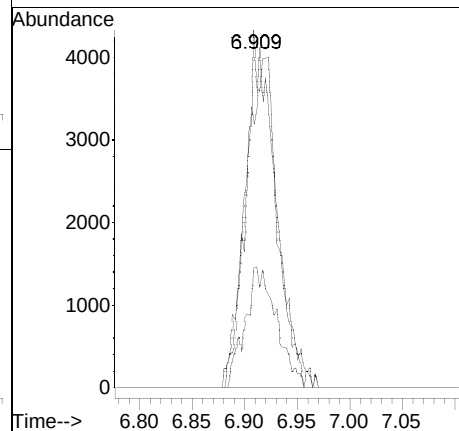
Tgt Ion:	83	Resp:	62608
Ion Ratio	Lower	Upper	
83	100		
85	63.3	51.5	77.3
127	8.4	4.2	6.4#

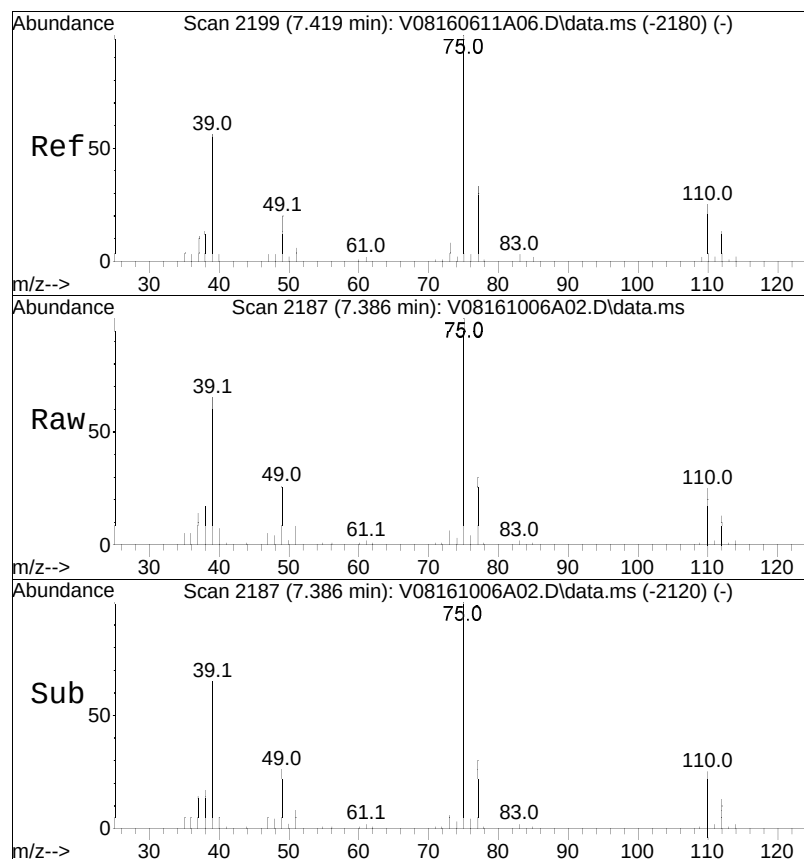




#57
 1,4-Dioxane
 Concen: 448.92 ug/L M1
 RT: 6.909 min Scan# 2016
 Delta R.T. -0.016 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

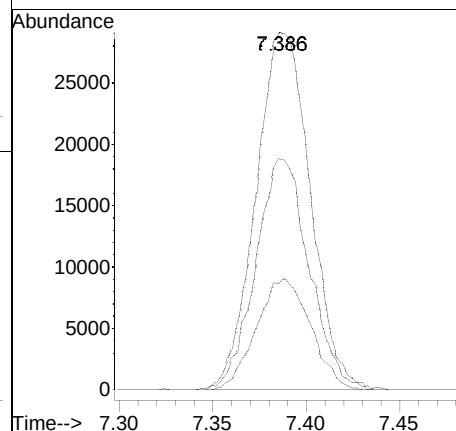
Tgt Ion:	88	Resp:	8790
Ion Ratio	Lower	Upper	
88	100		
58	91.4	70.8	106.2
43	34.3	29.3	43.9

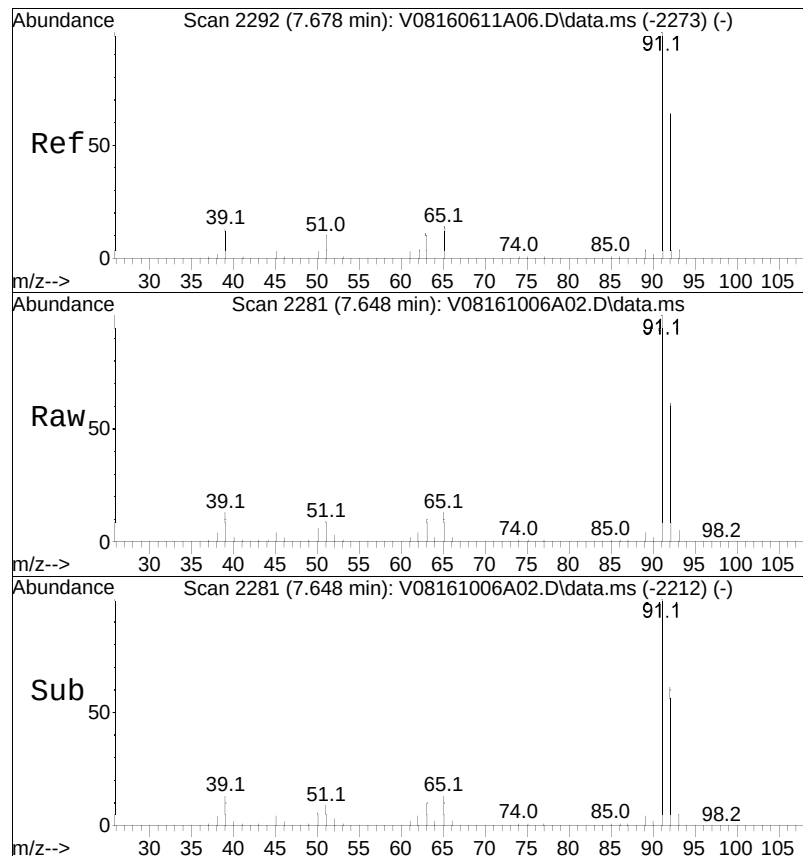




#58
 cis-1,3-Dichloropropene
 Concen: 8.46 ug/L
 RT: 7.386 min Scan# 2187
 Delta R.T. -0.013 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

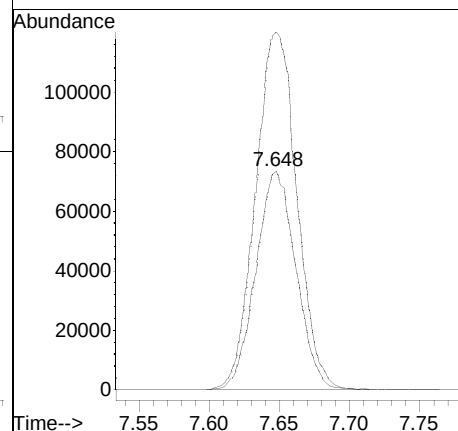
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.6	37.0
39	63.7	48.9	73.3

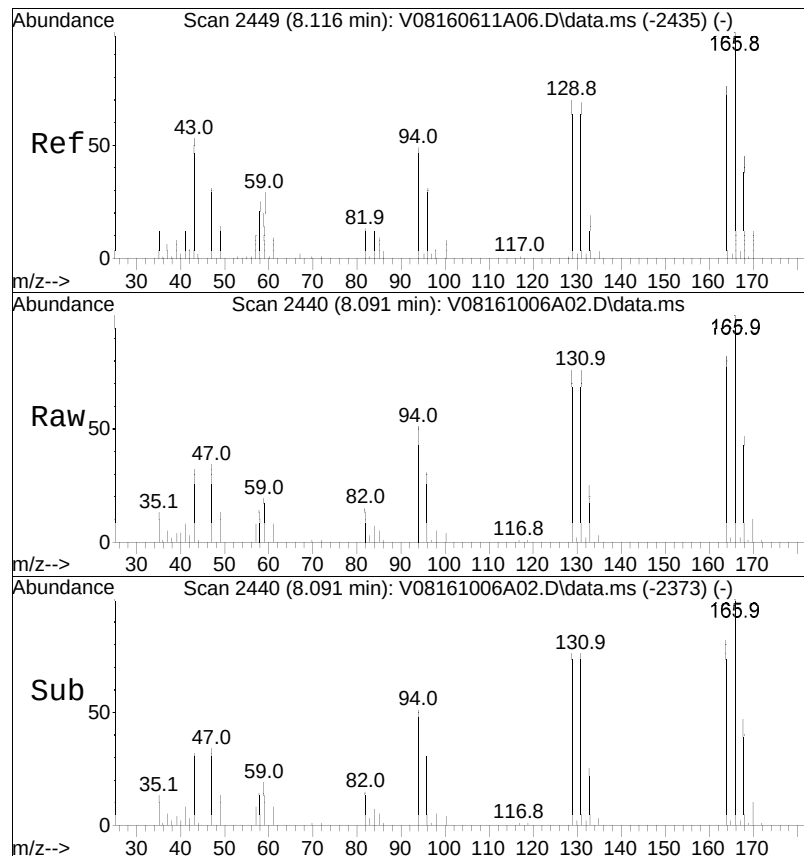




#61
 Toluene
 Concen: 10.53 ug/L
 RT: 7.648 min Scan# 2281
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

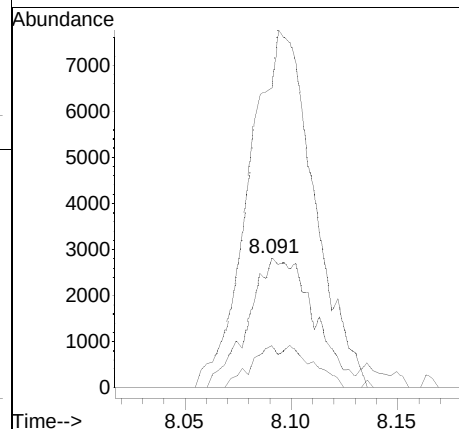
Tgt Ion:	92	Resp:	144932
Ion Ratio	Lower	Upper	
92	100		
91	167.8	132.6	198.8

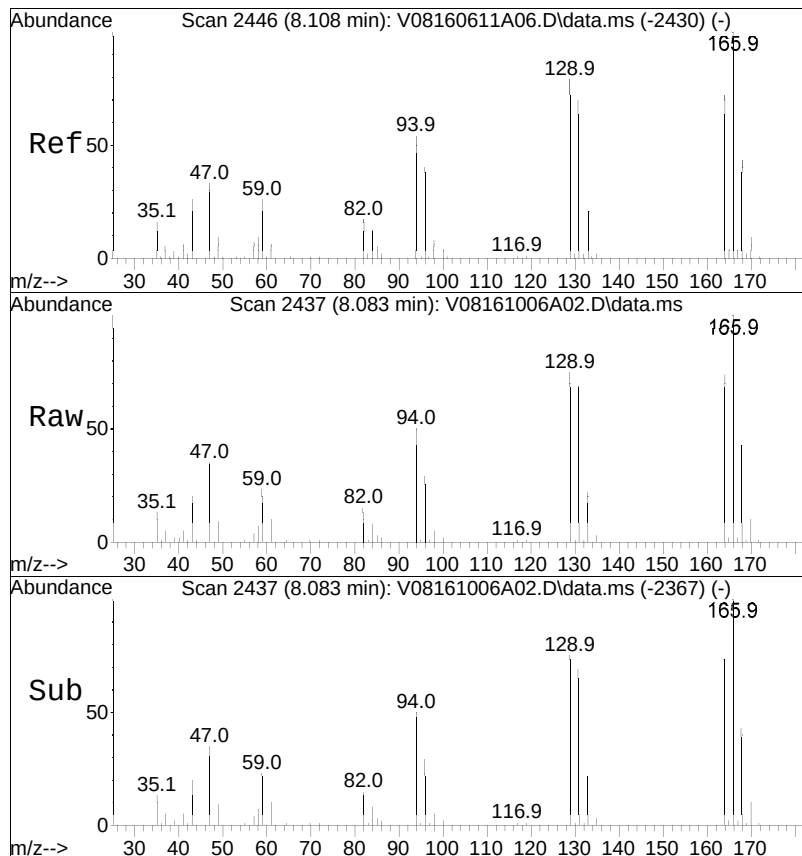




#62
 4-Methyl-2-pentanone
 Concen: 7.37 ug/L
 RT: 8.091 min Scan# 2440
 Delta R.T. -0.014 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

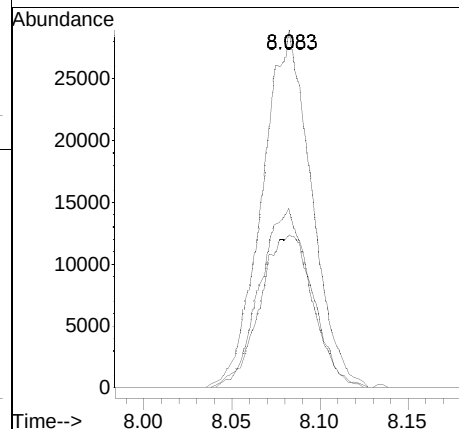
Tgt Ion:	58	Resp:	6091
Ion Ratio	Lower	Upper	
58	100		
100	13.6	21.5	32.3#
43	276.5	204.0	306.0

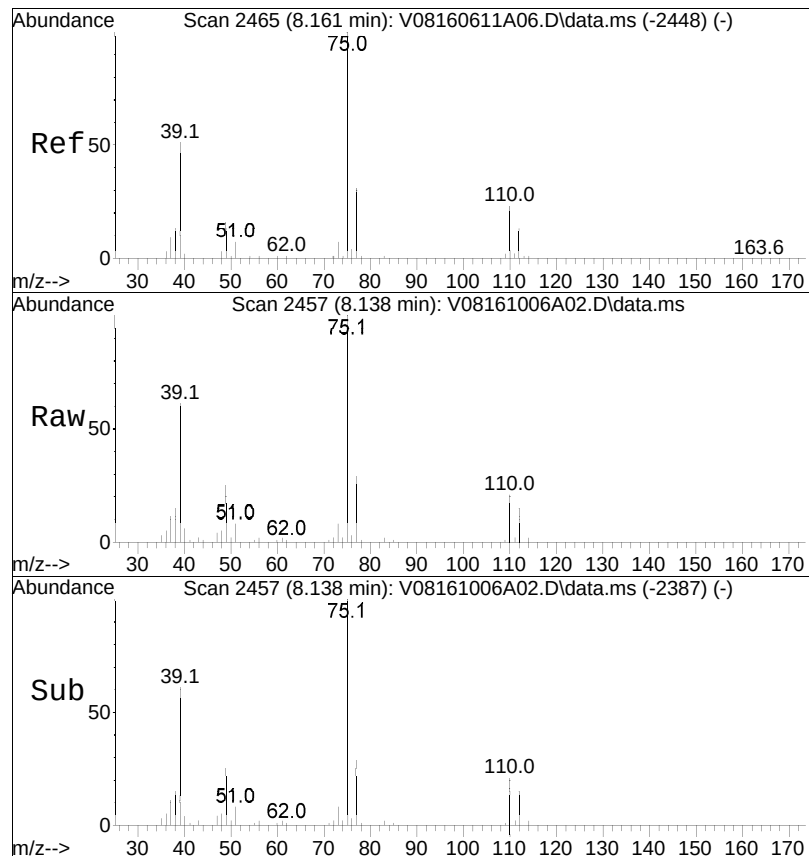




#63
 Tetrachloroethene
 Concen: 9.78 ug/L
 RT: 8.083 min Scan# 2437
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

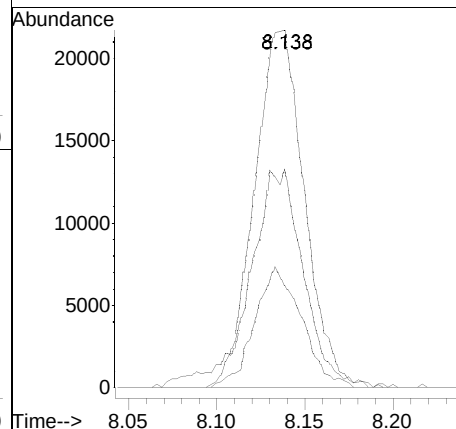
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	56262		
168	46.5		28.7	68.7
94	51.1		32.1	72.1

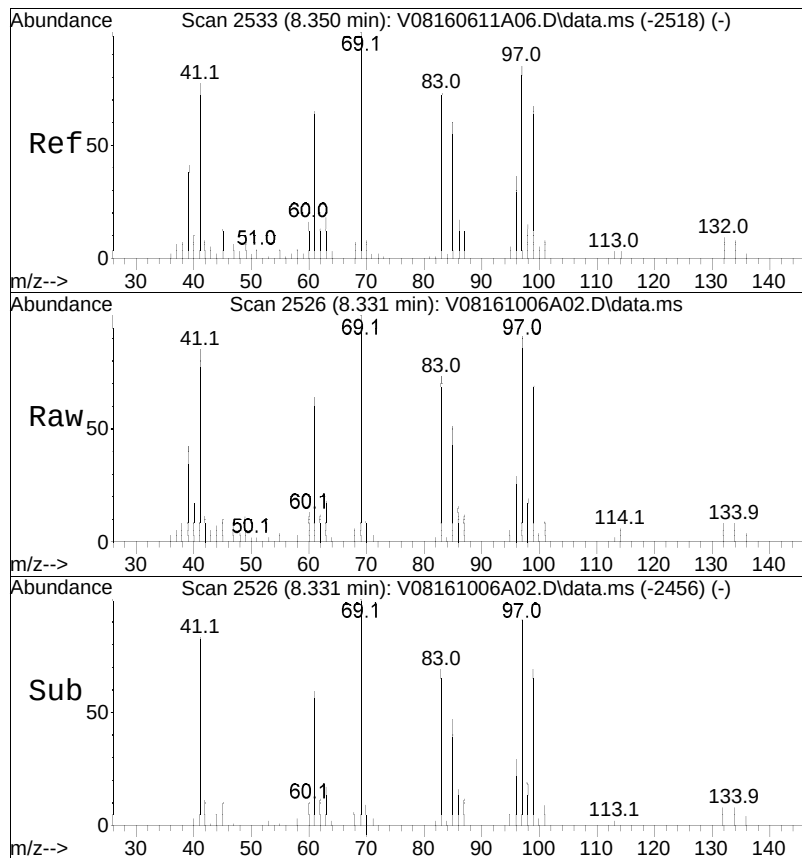




#65
trans-1,3-Dichloropropene
Concen: 9.24 ug/L
RT: 8.138 min Scan# 2457
Delta R.T. -0.006 min
Lab File: V08161006A02.D
Acq: 6 Oct 2016 9:34 am

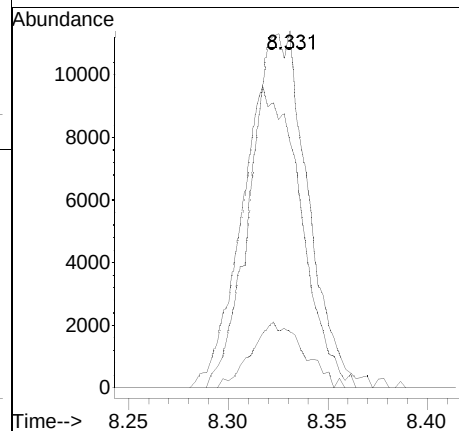
Tgt Ion:	75	Resp:	42657
Ion Ratio	Lower	Upper	
75	100		
77	31.8	12.1	52.1
39	65.9	45.2	85.2

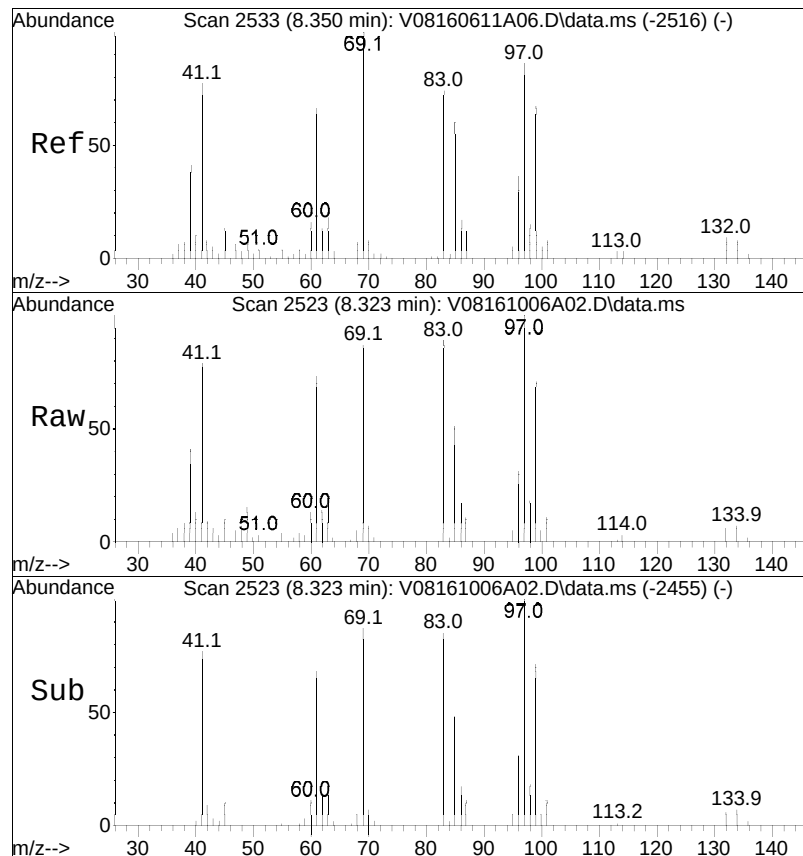




#67
 Ethyl methacrylate
 Concen: 7.32 ug/L
 RT: 8.331 min Scan# 2526
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

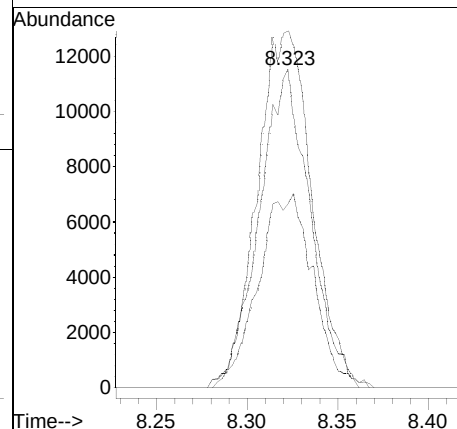
Tgt Ion	Ratio	Lower	Upper
69	100		
99	89.7	55.8	95.8
86	17.0	0.0	36.2

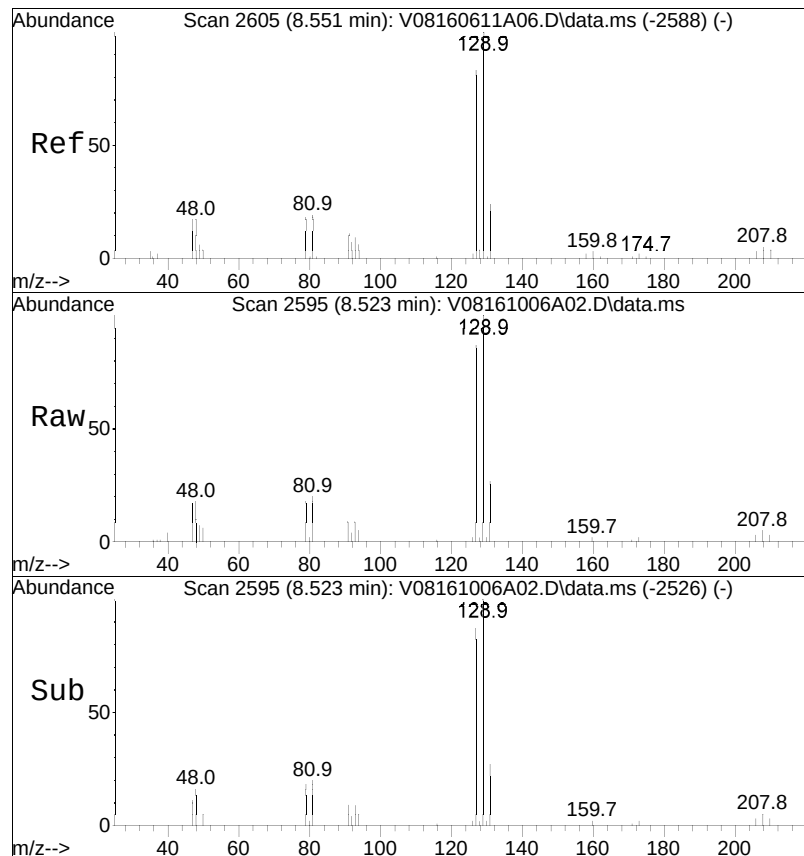




#68
 1,1,2-Trichloroethane
 Concen: 10.30 ug/L
 RT: 8.323 min Scan# 2523
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

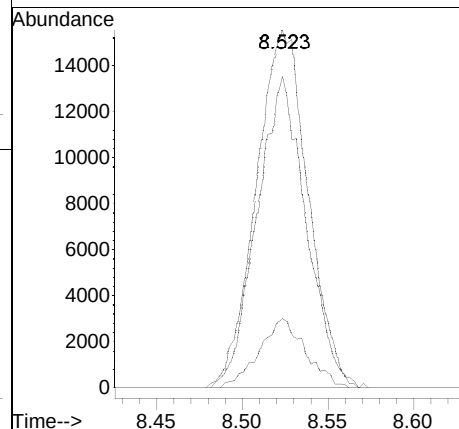
Tgt Ion	83	Resp	22454
Ion	Ratio	Lower	Upper
83	100		
97	120.5	98.1	138.1
85	32.3	46.0	86.0#

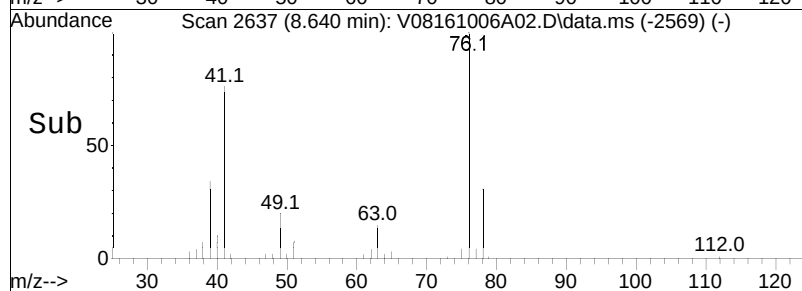
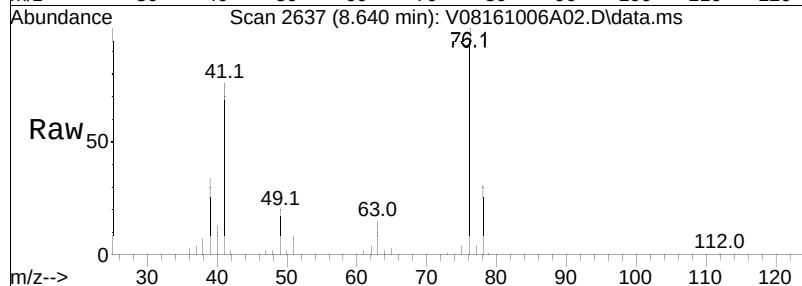
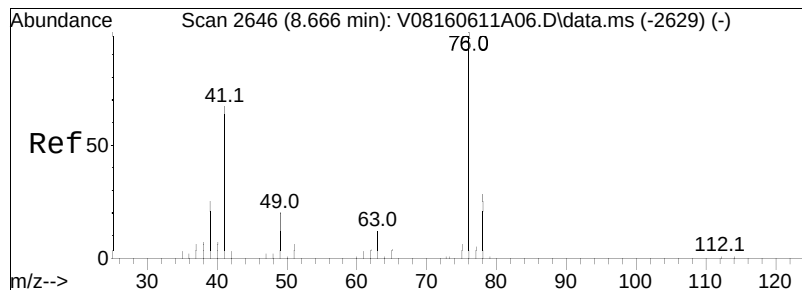




#69
 Chlorodibromomethane
 Concen: 9.68 ug/L
 RT: 8.523 min Scan# 2595
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

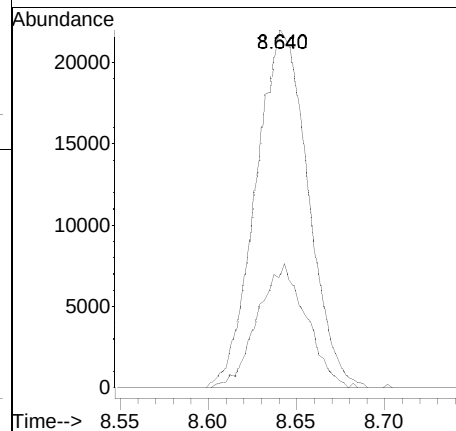
Tgt Ion:	129	Resp:	32598
Ion Ratio	Lower	Upper	
129	100		
81	17.3	0.0	37.5
127	81.7	56.3	96.3

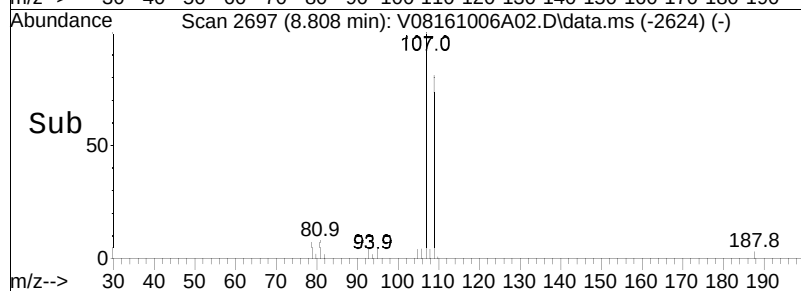
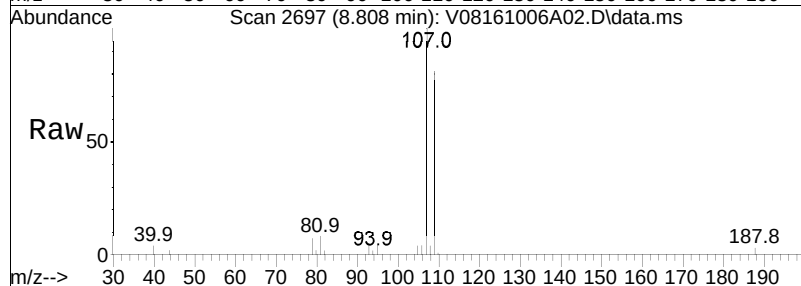
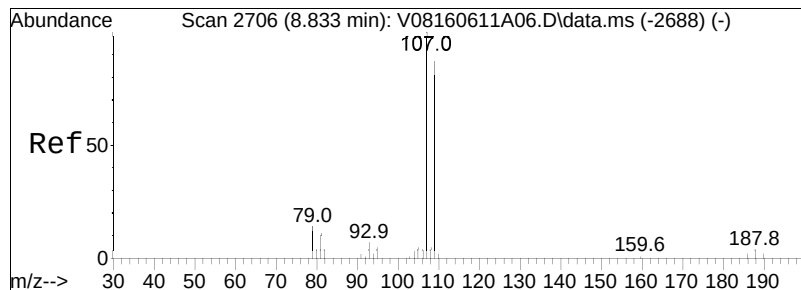




#70
 1,3-Dichloropropane
 Concen: 9.58 ug/L
 RT: 8.640 min Scan# 2637
 Delta R.T. -0.012 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

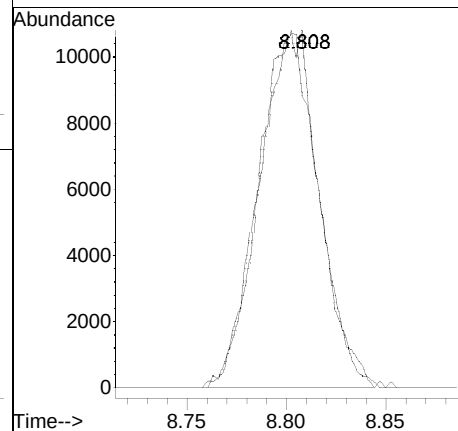
Tgt Ion:	76	78	Ratio	100	32.4	Resp:	45108
Ion	76	78	Ratio	100	32.4	Lower	Upper
						25.9	38.9

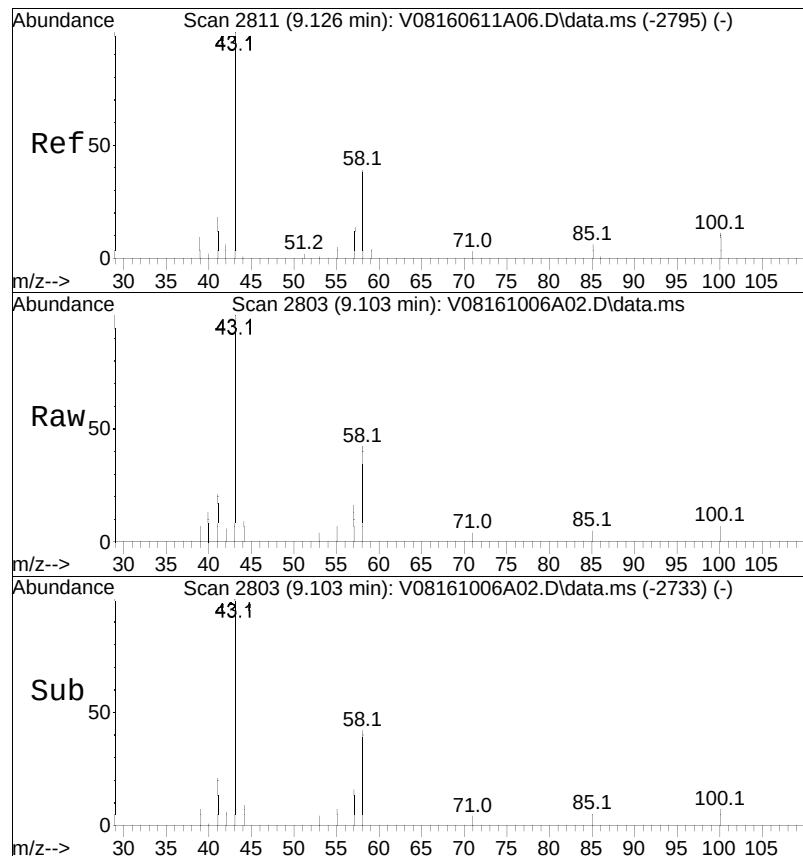




#71
 1,2-Dibromoethane
 Concen: 9.64 ug/L
 RT: 8.808 min Scan# 2697
 Delta R.T. 0.003 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

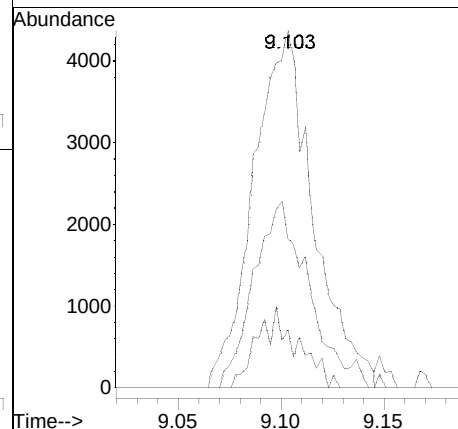
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.0	78.1	117.1

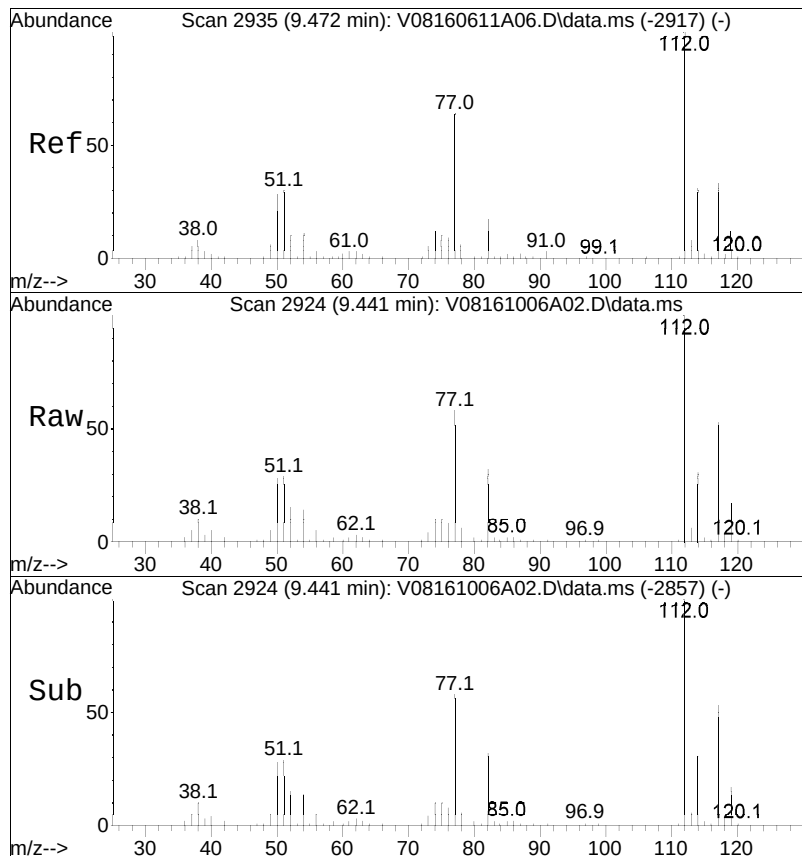




#72
 2-Hexanone
 Concen: 6.86 ug/L
 RT: 9.103 min Scan# 2803
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

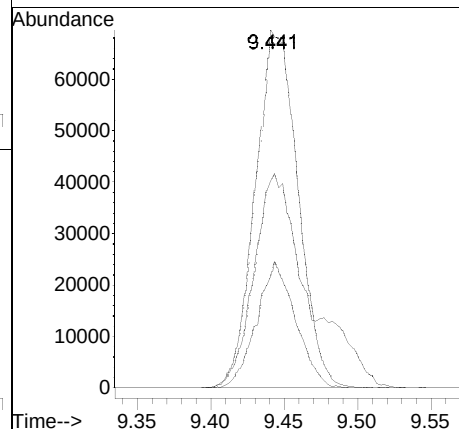
Tgt Ion:	43	58	57	Ratio	100	48.2	6.1	Resp:	8788	Lower	Upper

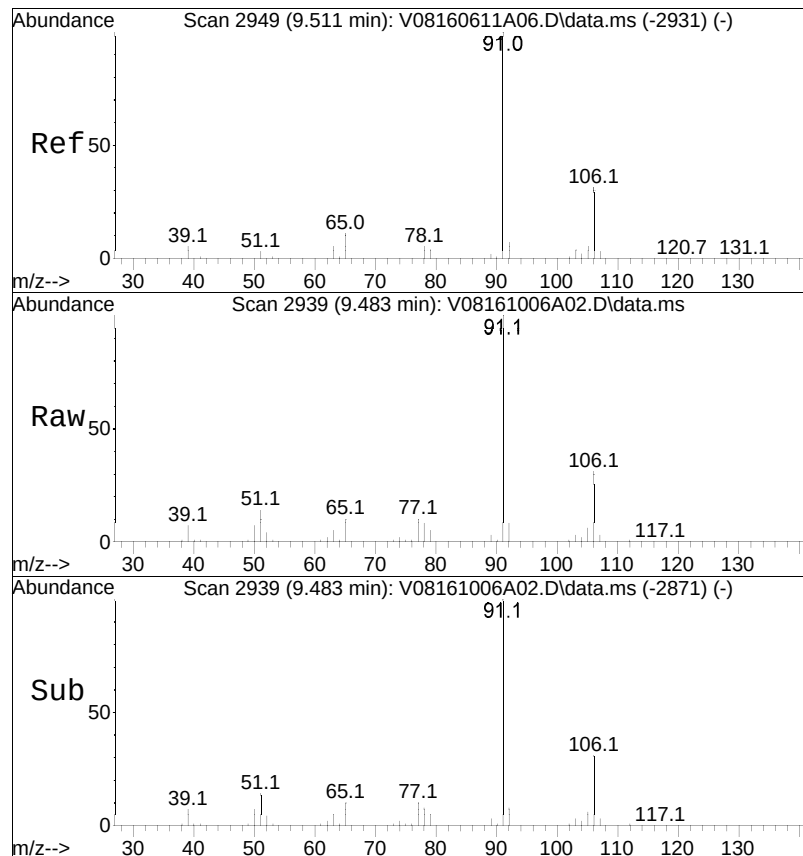




#73
 Chlorobenzene
 Concen: 9.75 ug/L
 RT: 9.441 min Scan# 2924
 Delta R.T. -0.014 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

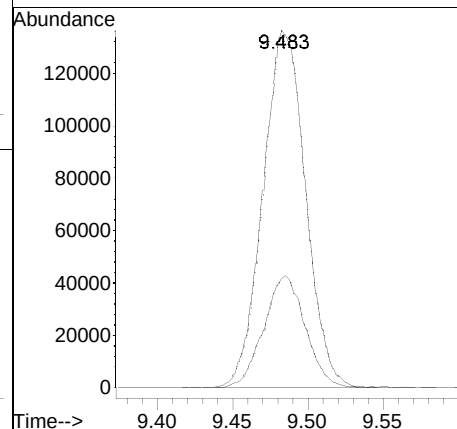
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		139286		
77	61.9	61.0		91.6	
114	32.5	25.5		38.3	

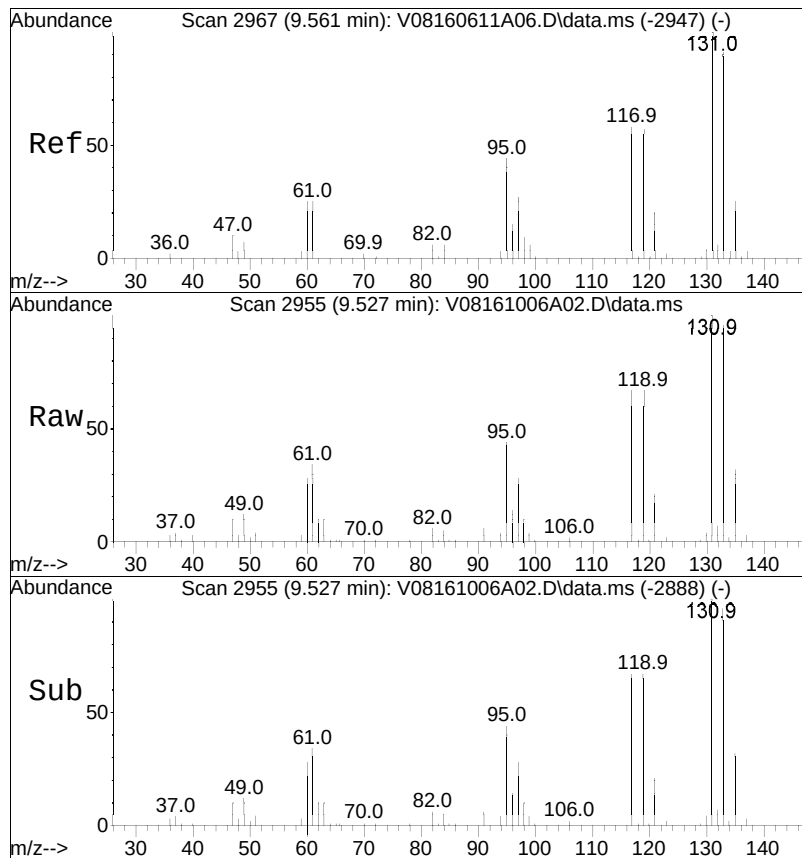




#74
 Ethylbenzene
 Concen: 10.41 ug/L
 RT: 9.483 min Scan# 2939
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

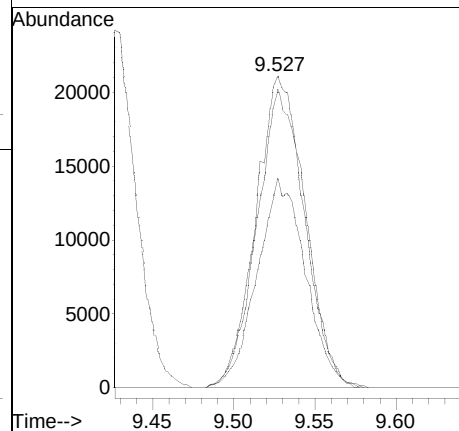
Tgt	Ion	Resp	Lower	Upper
91	100	266034		
106	30.6	24.2	36.2	

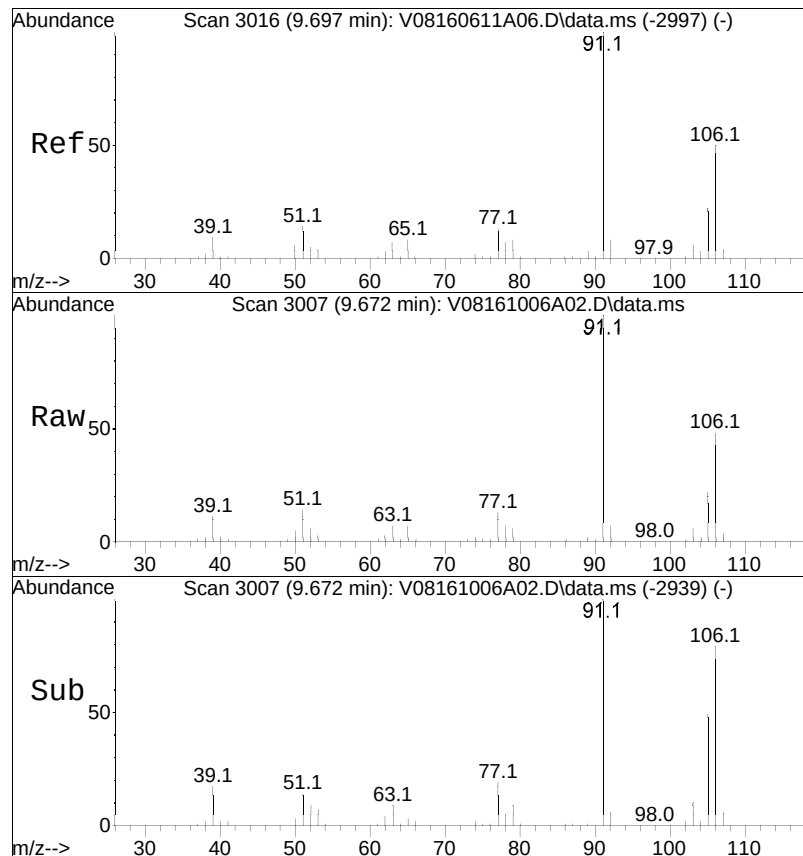




#75
 1,1,1,2-Tetrachloroethane
 Concen: 9.67 ug/L
 RT: 9.527 min Scan# 2955
 Delta R.T. -0.014 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

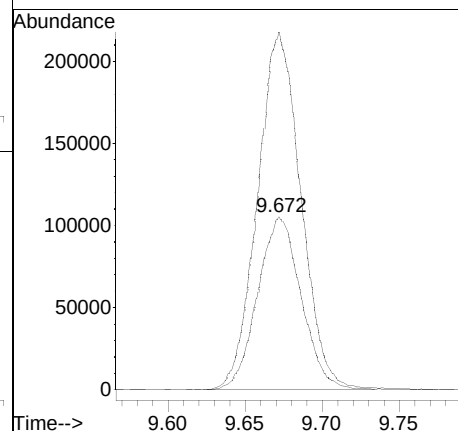
Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.0	76.8	116.8
119	65.7	44.9	84.9

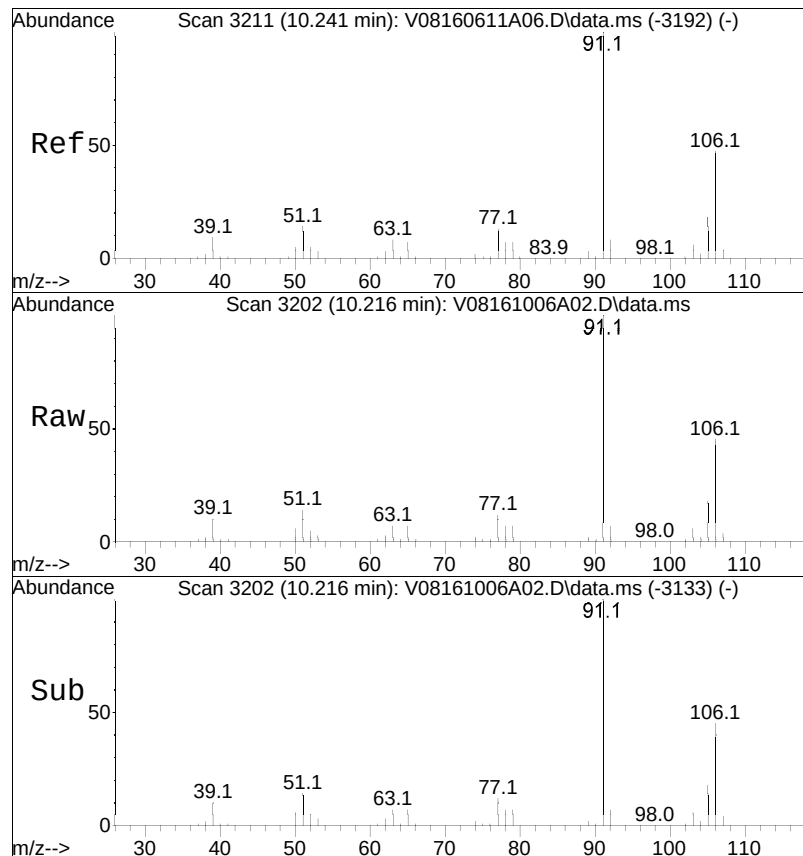




#76
 p/m Xylene
 Concen: 20.34 ug/L
 RT: 9.672 min Scan# 3007
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

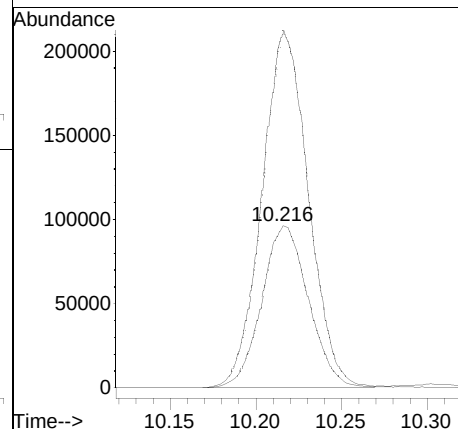
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	205.6	167.8	251.6	

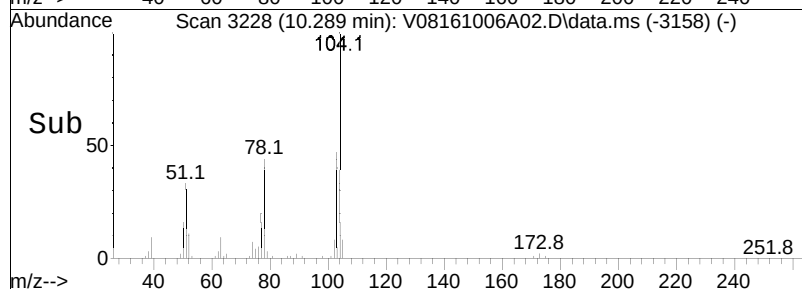
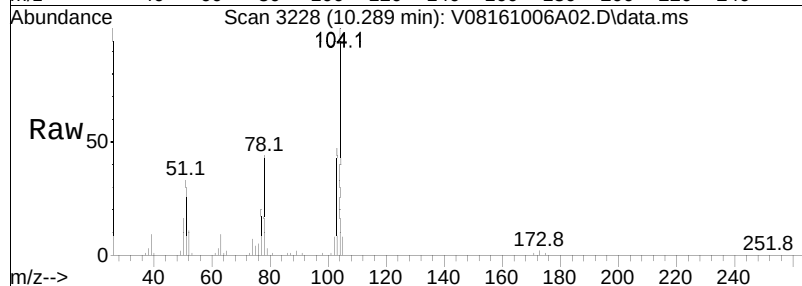
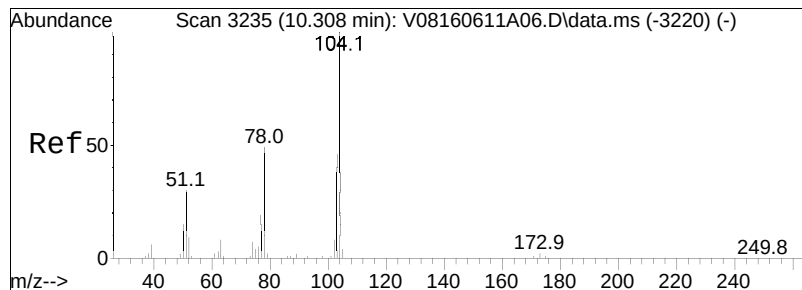




#77
 o Xylene
 Concen: 20.06 ug/L
 RT: 10.216 min Scan# 3202
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt Ion	Ratio	Lower	Upper
106	100		
91	217.6	176.2	264.4





#78

Styrene

Concen: 20.40 ug/L

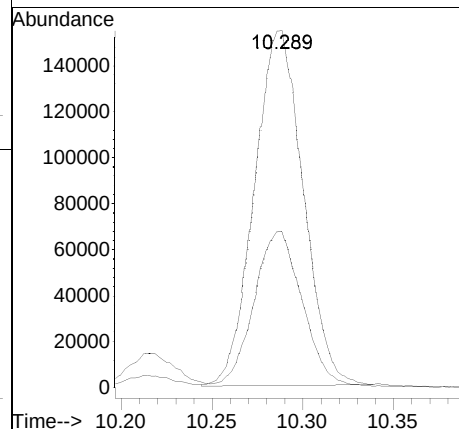
RT: 10.289 min Scan# 3228

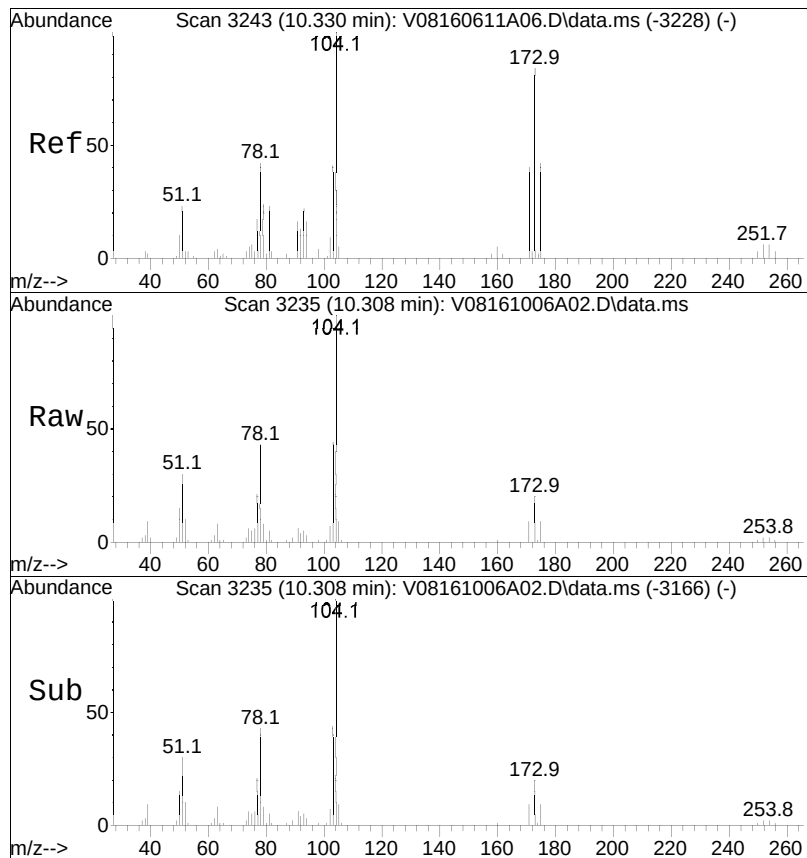
Delta R.T. -0.005 min

Lab File: V08161006A02.D

Acq: 6 Oct 2016 9:34 am

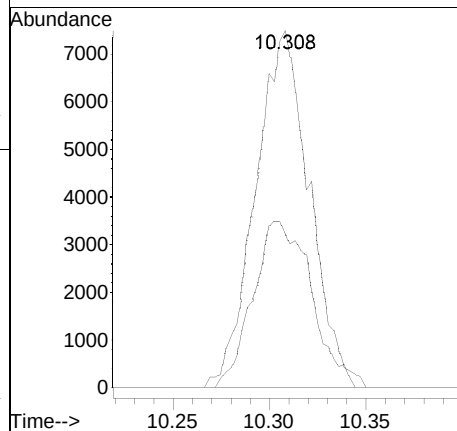
Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.1	36.0	54.0

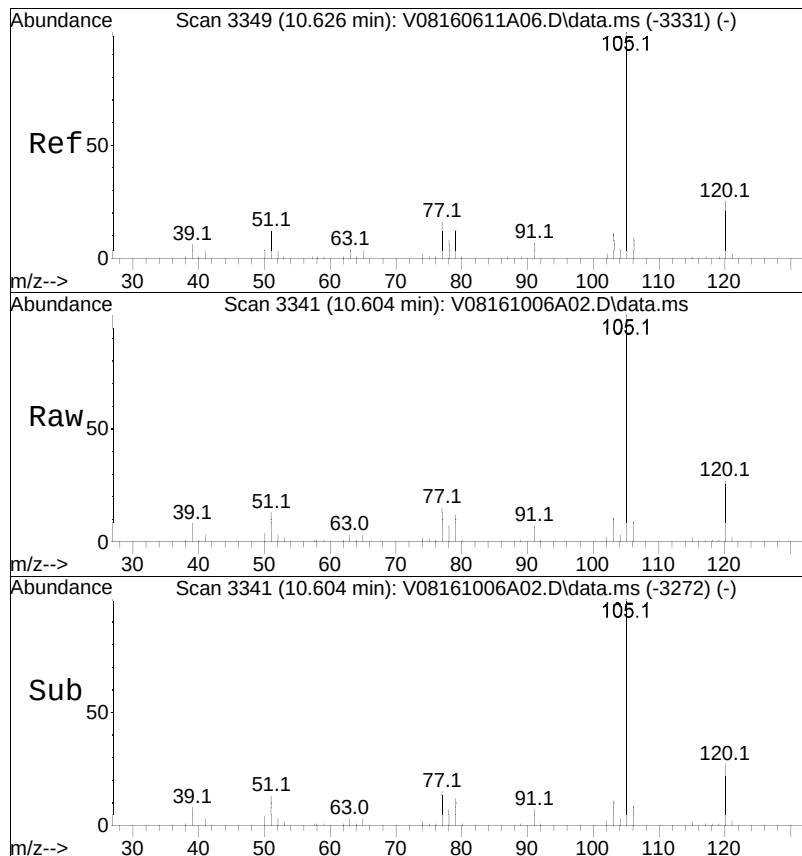




#80
 Bromoform
 Concen: 10.16 ug/L
 RT: 10.308 min Scan# 3235
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

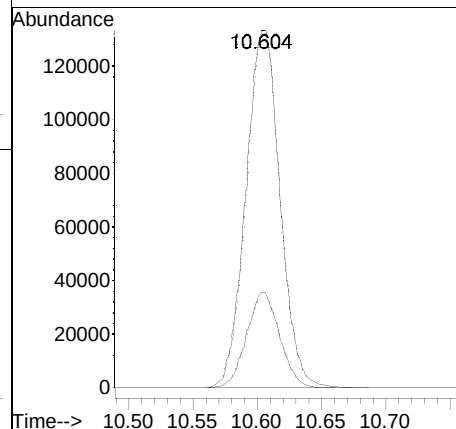
Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.0	27.7	67.7

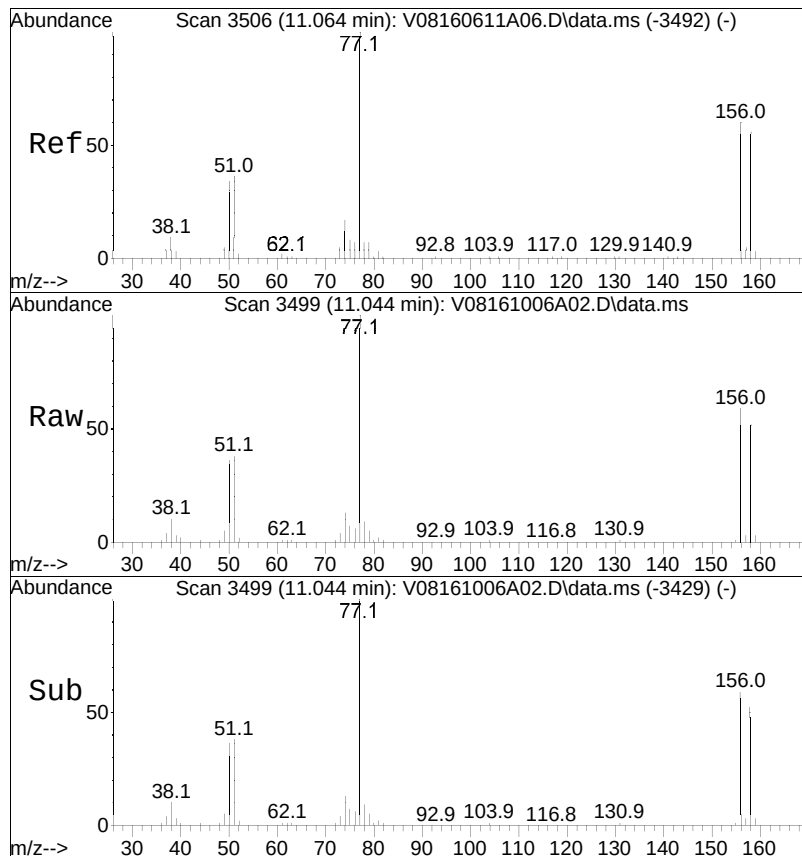




#82
 Isopropylbenzene
 Concen: 10.43 ug/L
 RT: 10.604 min Scan# 3341
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	6.7	46.7





#84

Bromobenzene

Concen: 10.08 ug/L

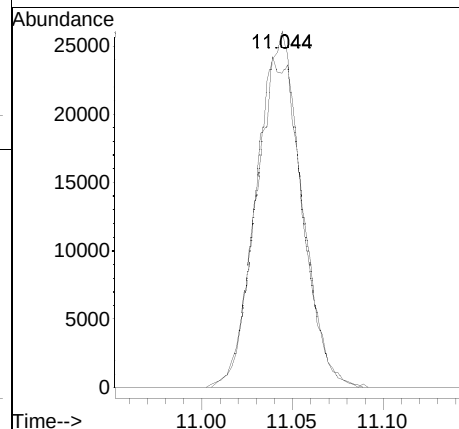
RT: 11.044 min Scan# 3499

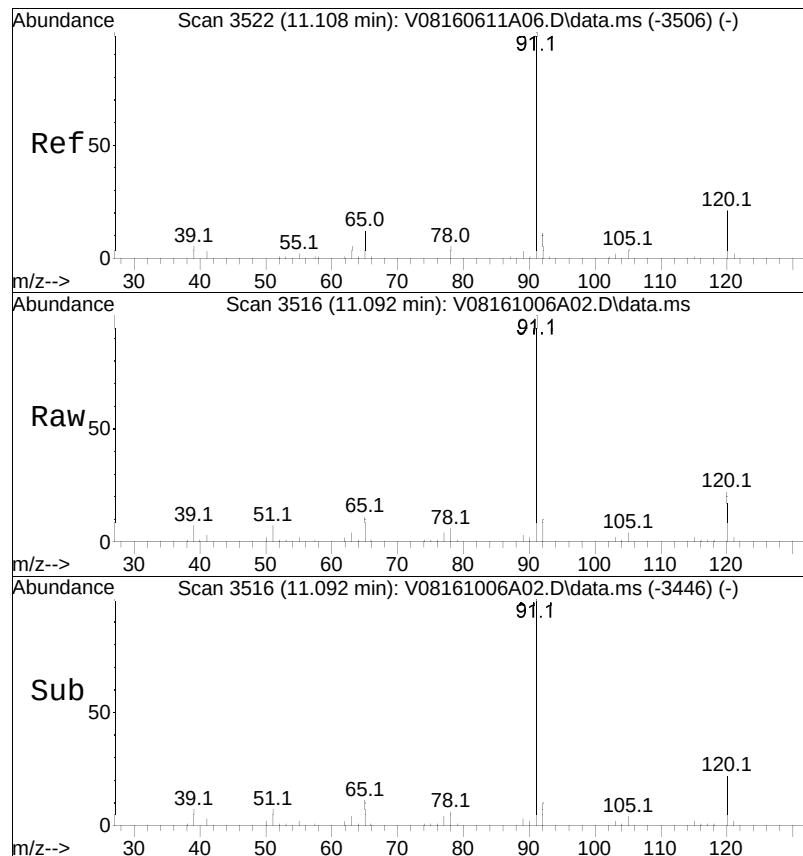
Delta R.T. -0.006 min

Lab File: V08161006A02.D

Acq: 6 Oct 2016 9:34 am

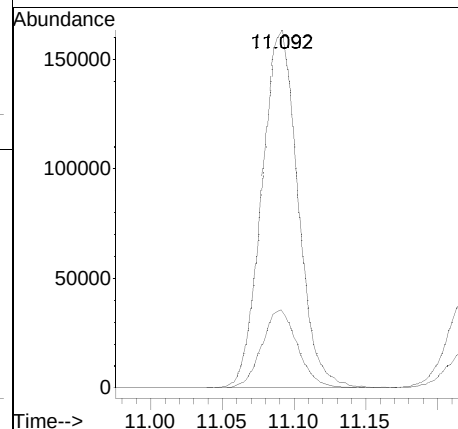
Tgt Ion	156	158	Ratio	100	Resp	44187	Lower	Upper
	156	158	97.8	78.0	117.0			

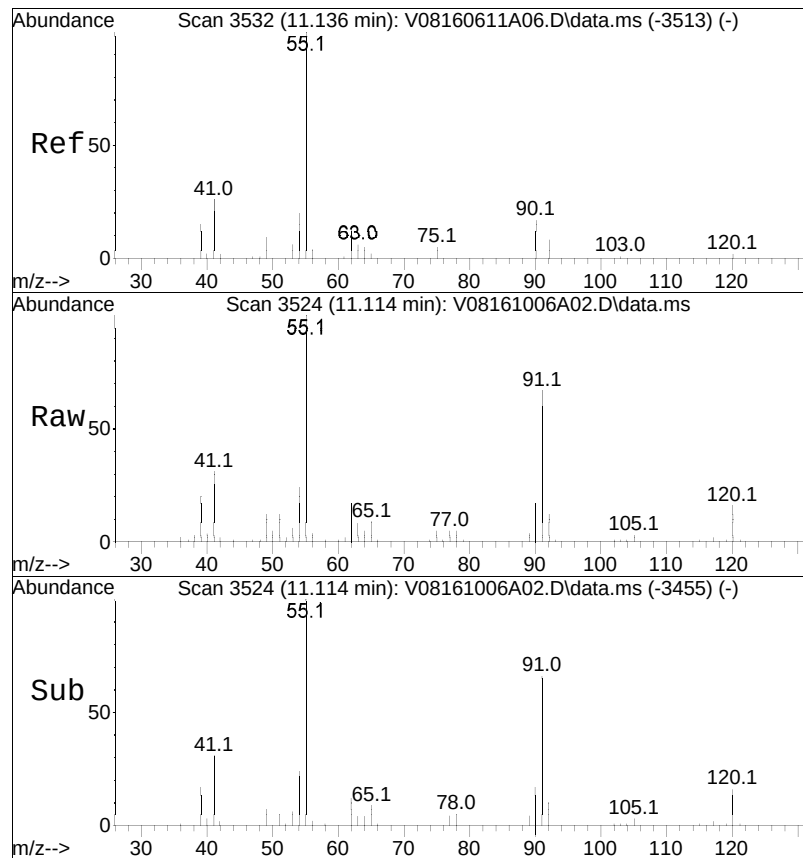




#85
 n-Propylbenzene
 Concen: 10.68 ug/L
 RT: 11.092 min Scan# 3516
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

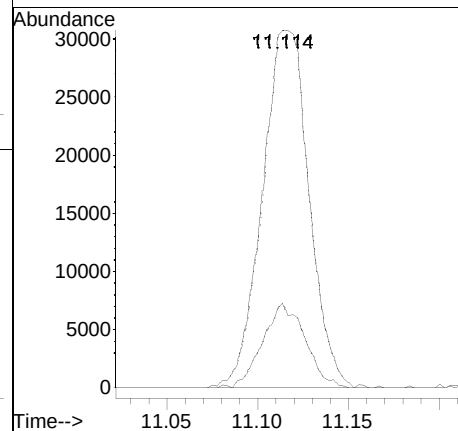
Tgt	Ion	Resp	Lower	Upper
91	100	283968		
120	21.7	17.2	25.8	

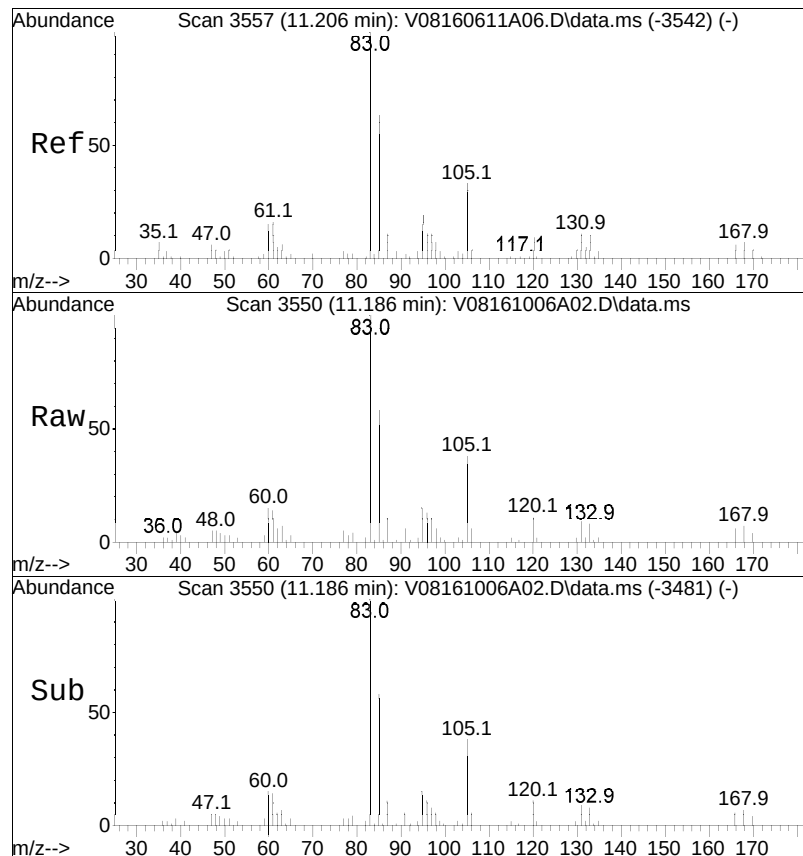




#86
 1,4-Dichlorobutane
 Concen: 10.60 ug/L
 RT: 11.114 min Scan# 3524
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

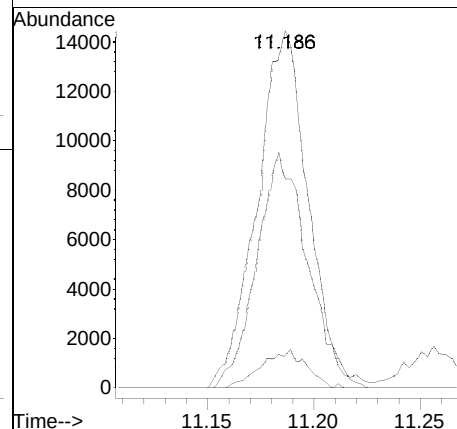
Tgt Ion	Ratio	Lower	Upper
55	100		
54	21.6	15.8	23.8

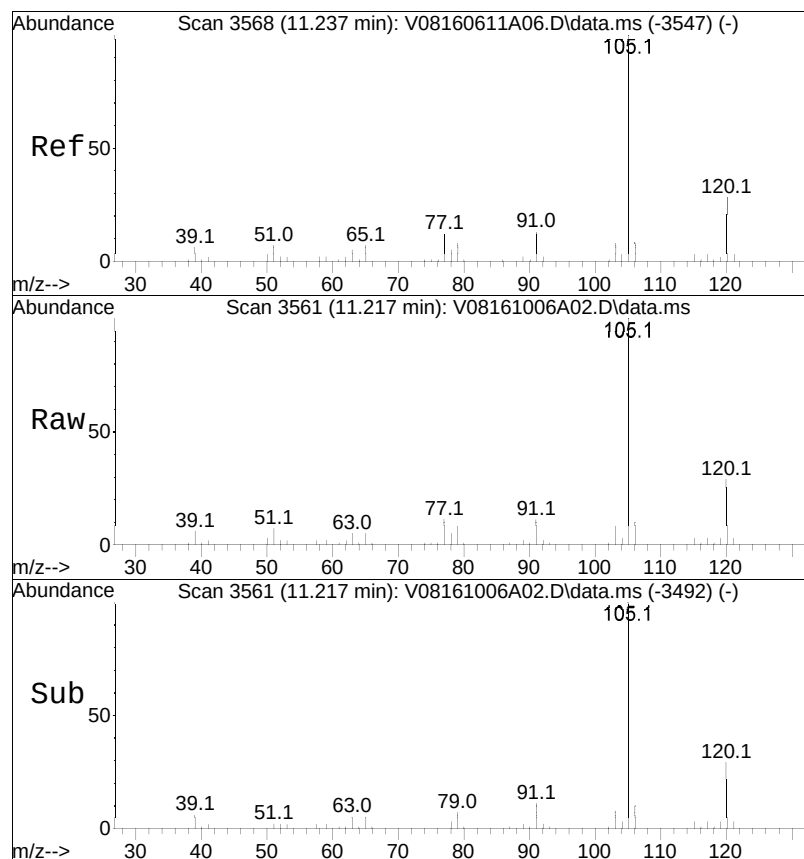




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.32 ug/L
 RT: 11.186 min Scan# 3550
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

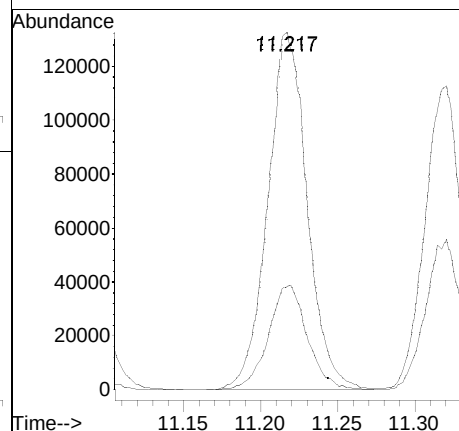
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	23877		
131	9.5		0.0	28.9
85	66.6		47.6	87.6

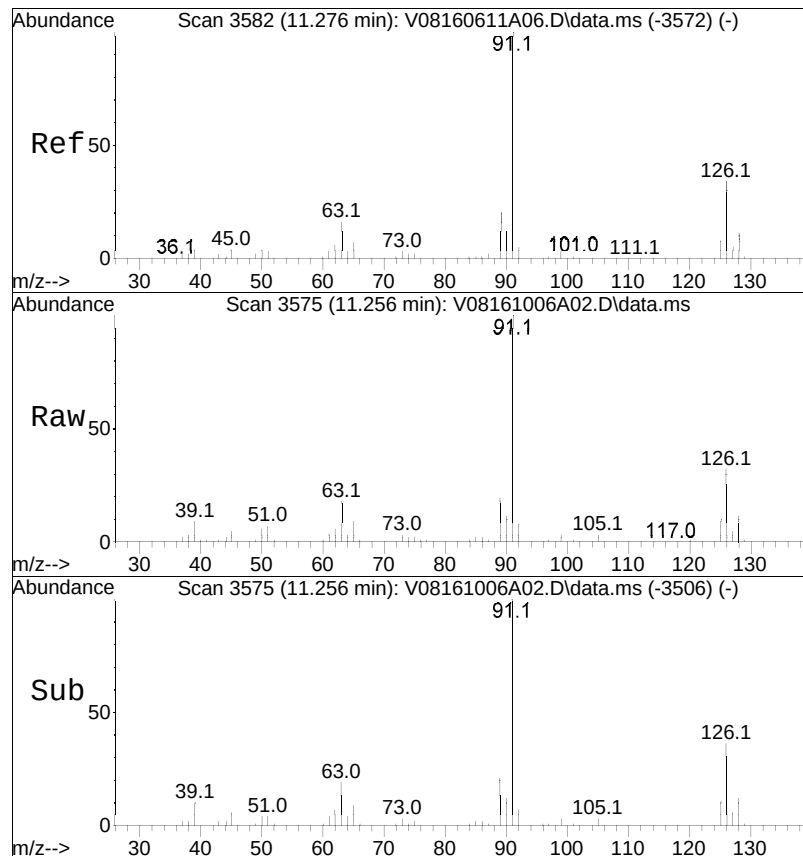




#88
 4-Ethyltoluene
 Concen: 10.65 ug/L
 RT: 11.217 min Scan# 3561
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

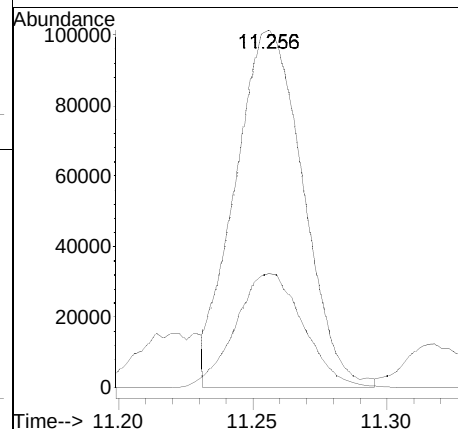
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.1	19.4	40.4

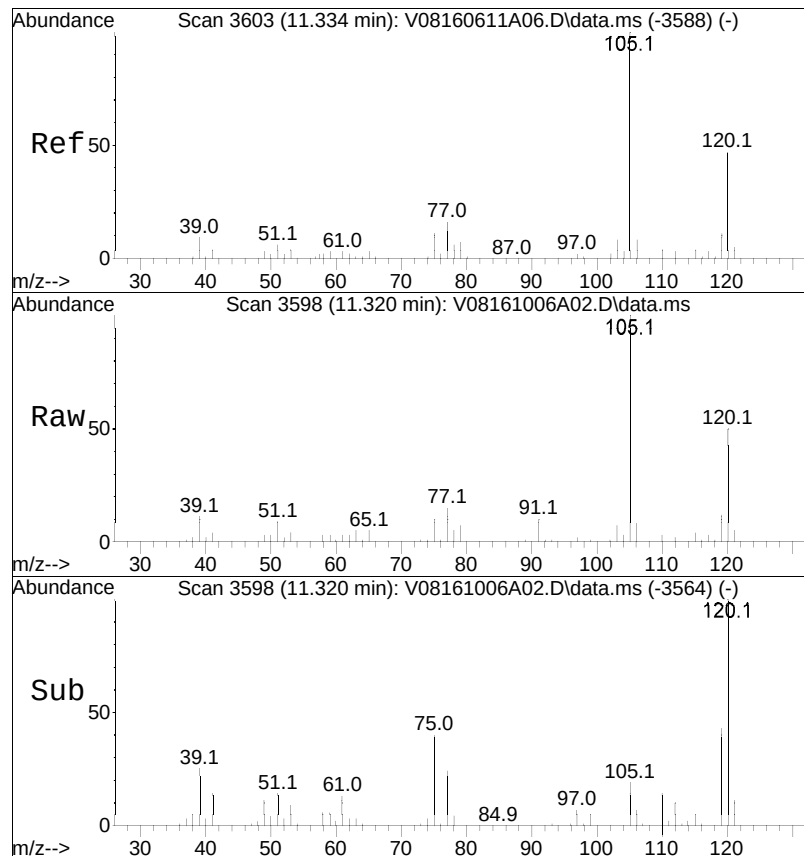




#89
 2-Chlorotoluene
 Concen: 11.10 ug/L
 RT: 11.256 min Scan# 3575
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

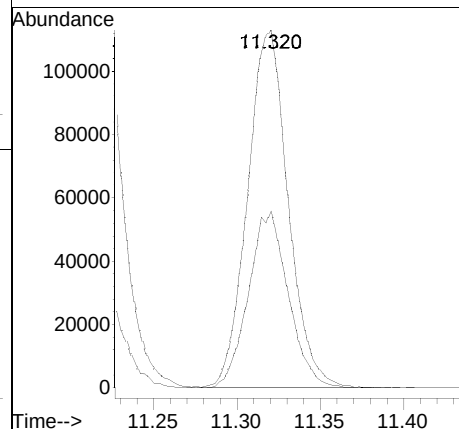
Tgt Ion:	91	Resp:	176980
Ion Ratio	Lower	Upper	
91	100		
126	32.3	25.3	37.9

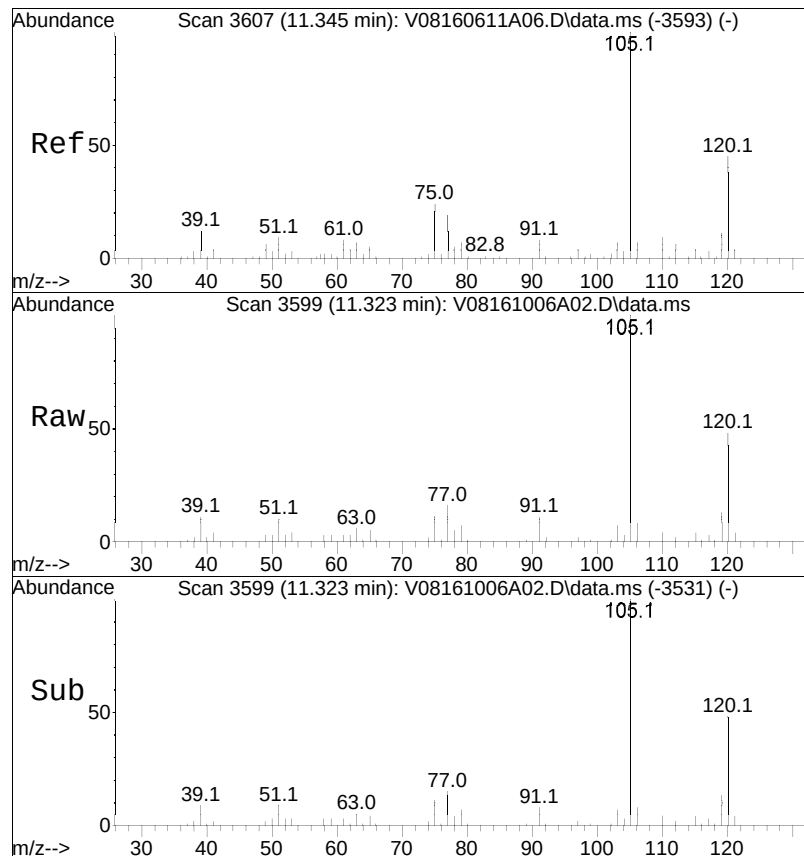




#90
 1,3,5-Trimethylbenzene
 Concen: 10.59 ug/L
 RT: 11.320 min Scan# 3598
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

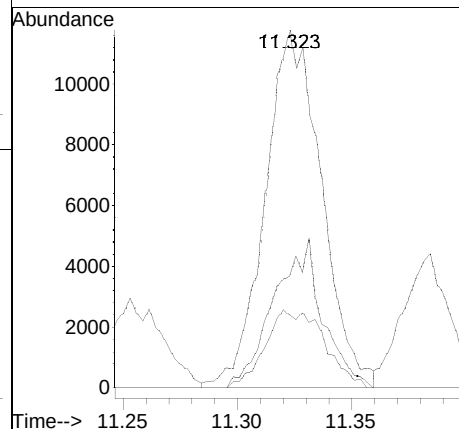
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	28.0	42.0

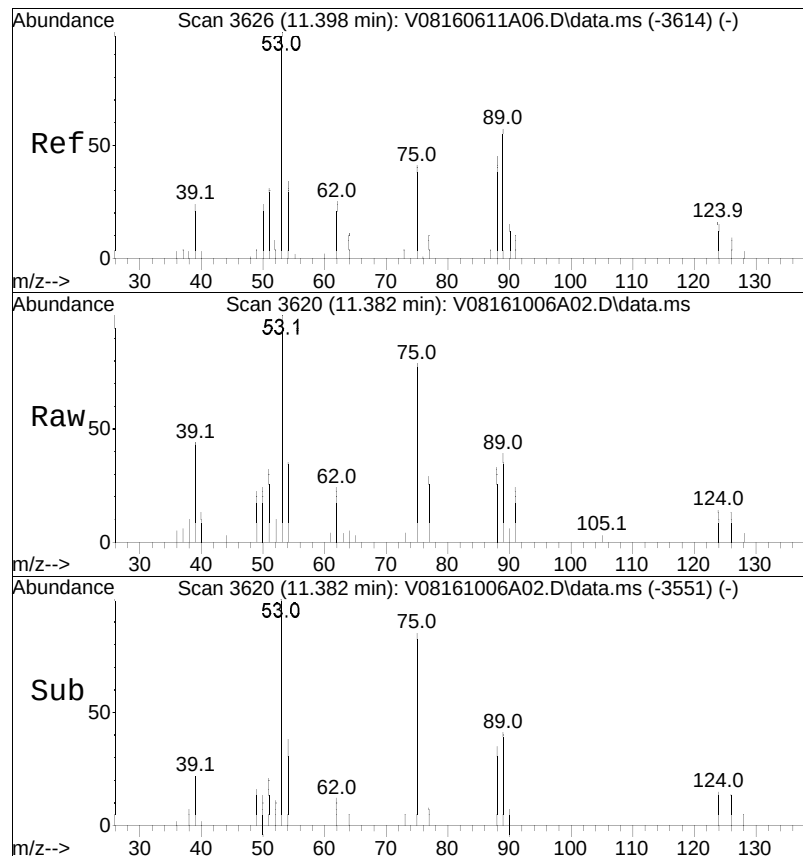




#91
 1,2,3-Trichloropropane
 Concen: 10.62 ug/L
 RT: 11.323 min Scan# 3599
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

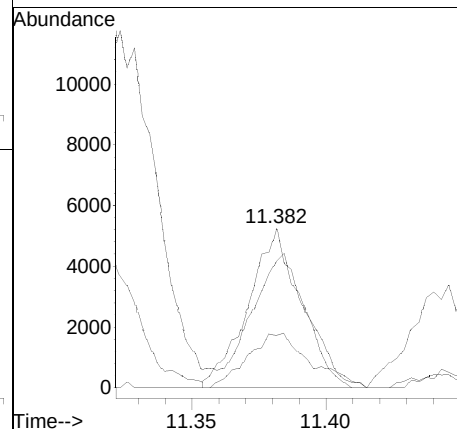
Tgt Ion:	75	Resp:	20114
Ion Ratio	Lower	Upper	
75	100		
110	36.1	23.5	48.7
112	12.4	15.2	31.6#

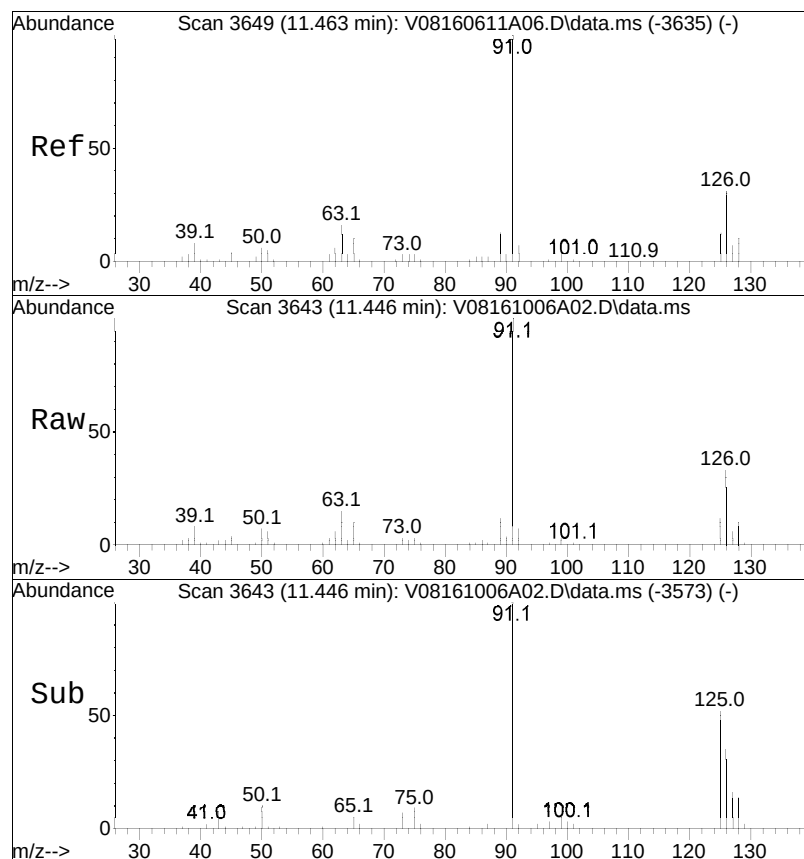




#92
 trans-1,4-Dichloro-2-butene
 Concen: 9.96 ug/L
 RT: 11.382 min Scan# 3620
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

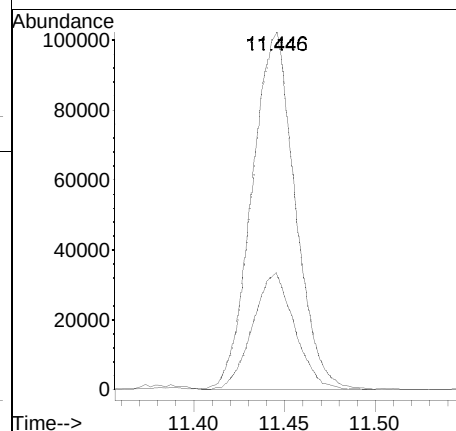
Tgt Ion	Ratio	Lower	Upper
53	100		
88	37.3	25.7	38.5
75	84.0	63.8	95.8

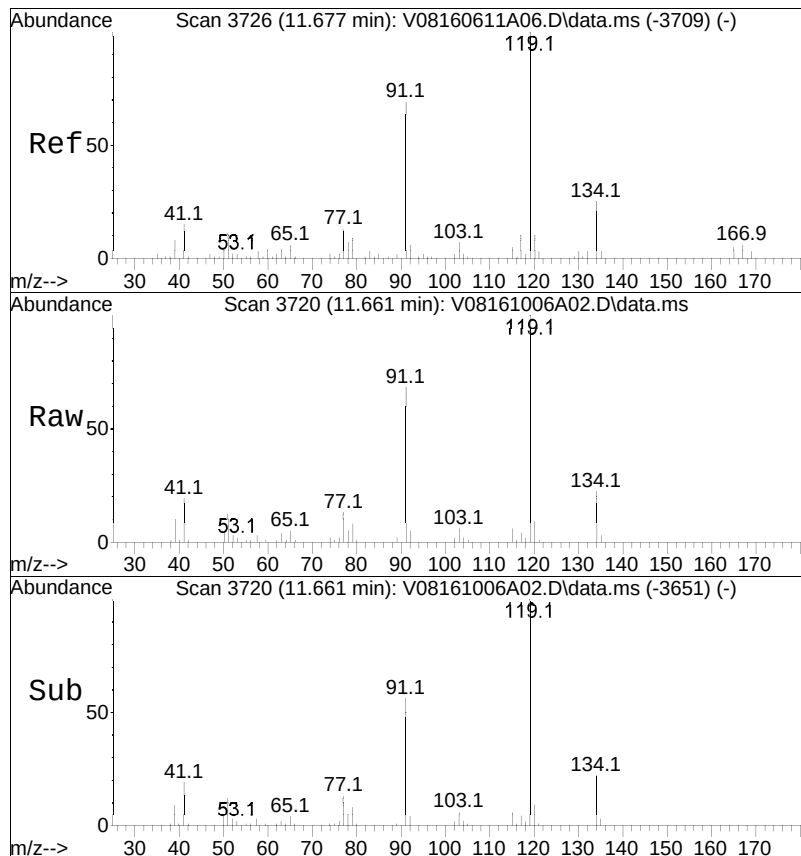




#93
 4-Chlorotoluene
 Concen: 11.03 ug/L
 RT: 11.446 min Scan# 3643
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

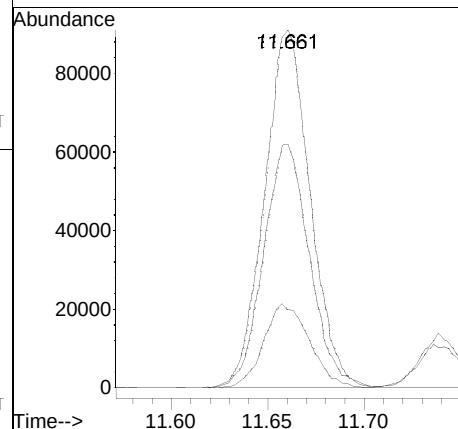
Tgt Ion: 91 Resp: 167043
 Ion Ratio Lower Upper
 91 100
 126 32.4 0.0 0.0#

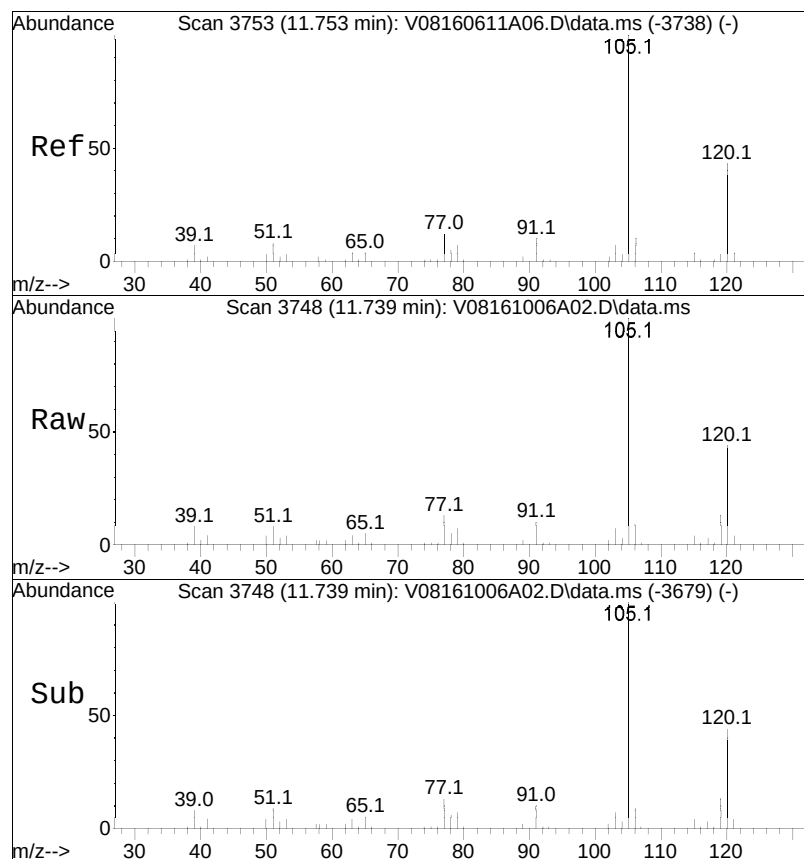




#94
 tert-Butylbenzene
 Concen: 8.56 ug/L
 RT: 11.661 min Scan# 3720
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

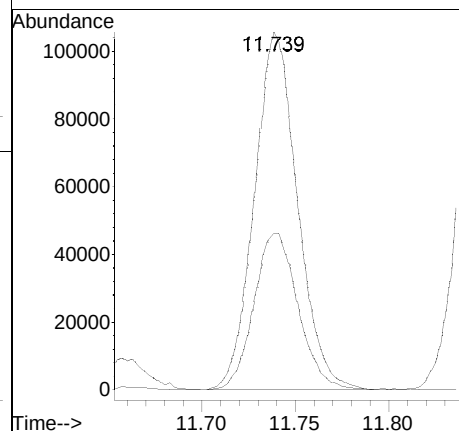
Tgt Ion:	119	Resp:	149020
Ion Ratio	Lower	Upper	
119	100		
91	68.4	47.2	70.8
134	23.7	18.2	27.4

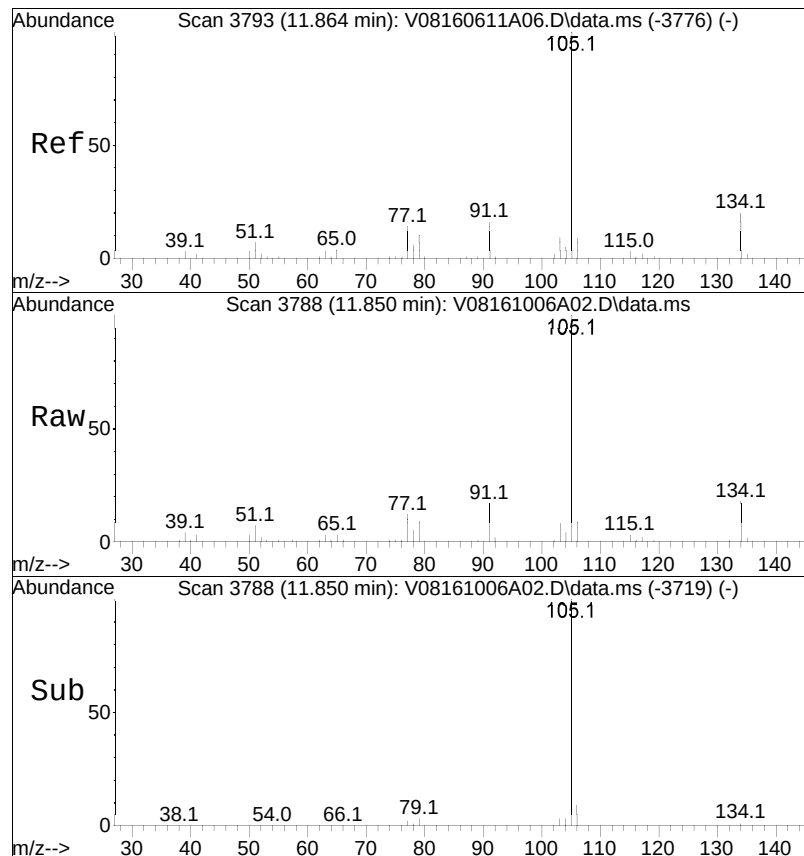




#97
 1,2,4-Trimethylbenzene
 Concen: 10.31 ug/L
 RT: 11.739 min Scan# 3748
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

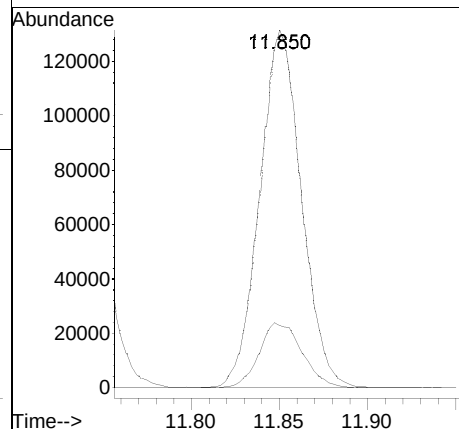
Tgt Ion	105	120	Ratio	Lower	Upper
105	100				
120	45.0		35.9	53.9	

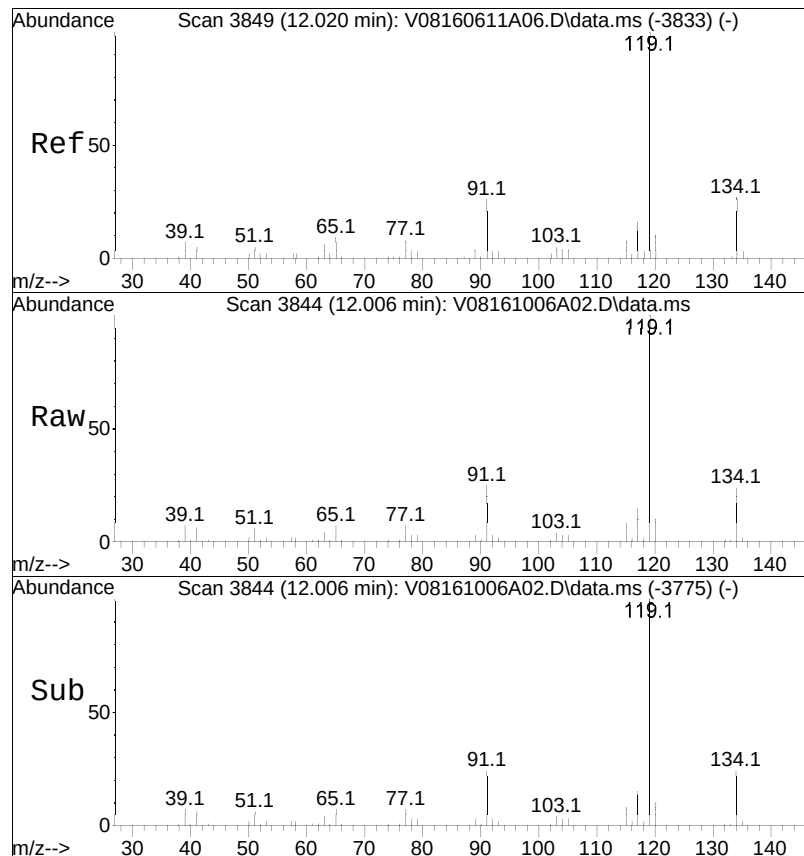




#98
 sec-Butylbenzene
 Concen: 9.59 ug/L
 RT: 11.850 min Scan# 3788
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

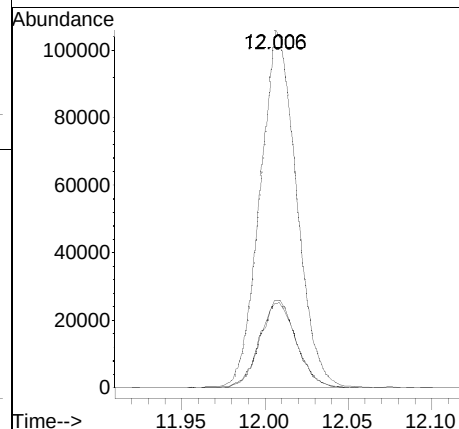
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	18.9	12.5	26.1	

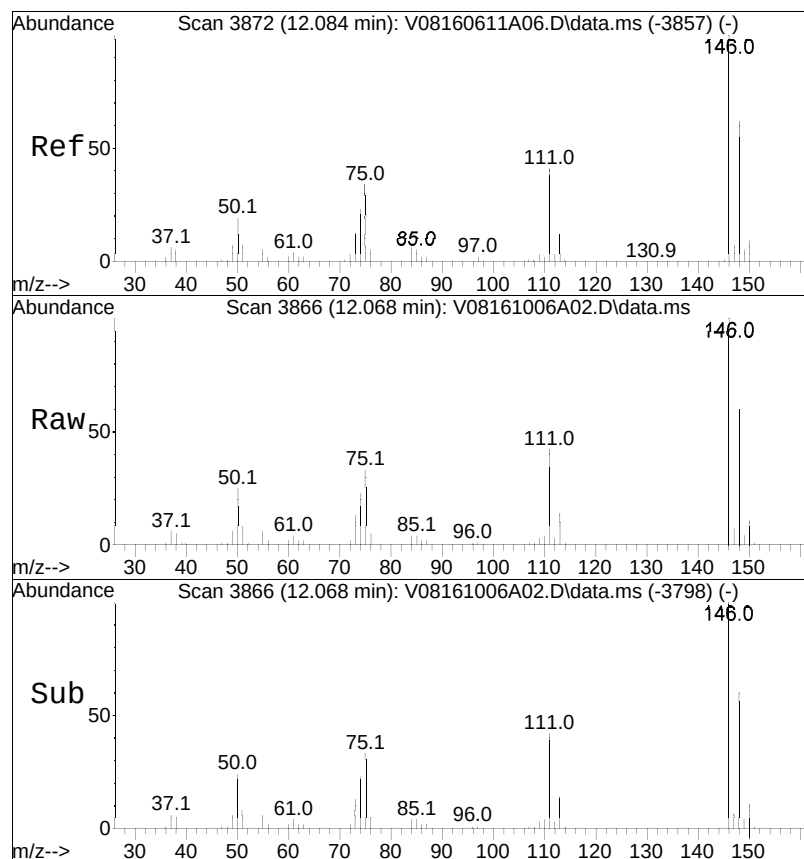




#99
 p-Isopropyltoluene
 Concen: 9.43 ug/L
 RT: 12.006 min Scan# 3844
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

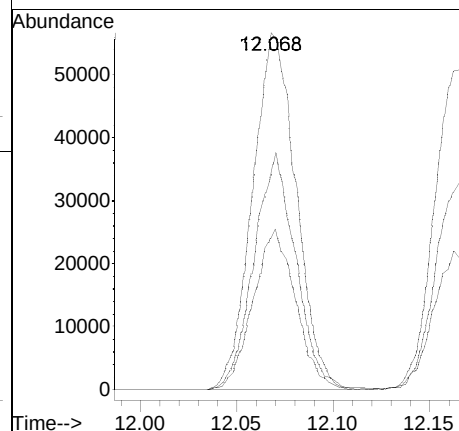
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.1	16.3	33.9
91	24.8	16.6	34.4

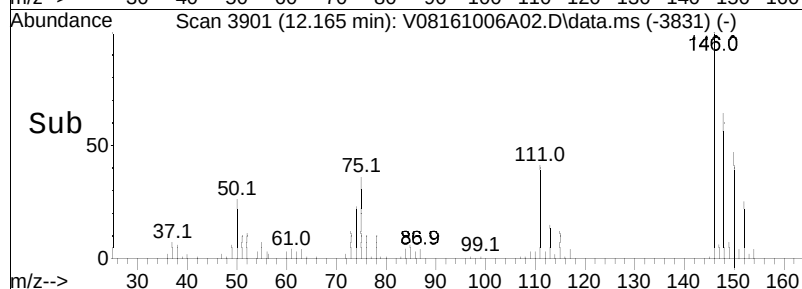
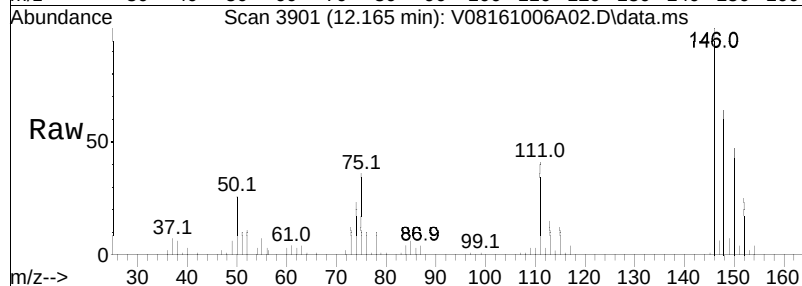
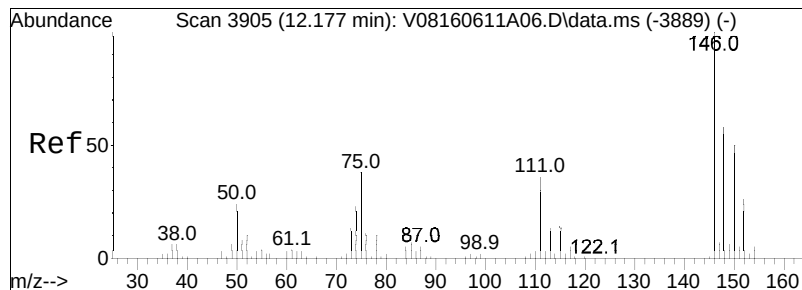




#100
 1,3-Dichlorobenzene
 Concen: 9.78 ug/L
 RT: 12.068 min Scan# 3866
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

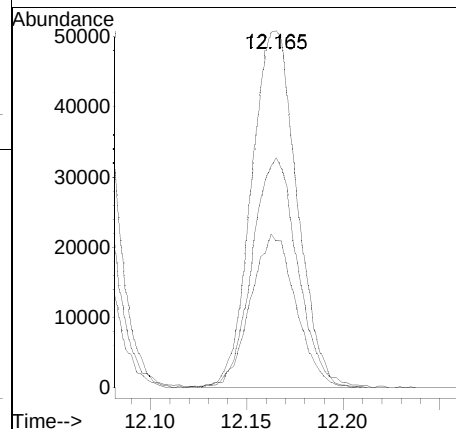
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	27.0	56.0
148	63.3	41.0	85.0

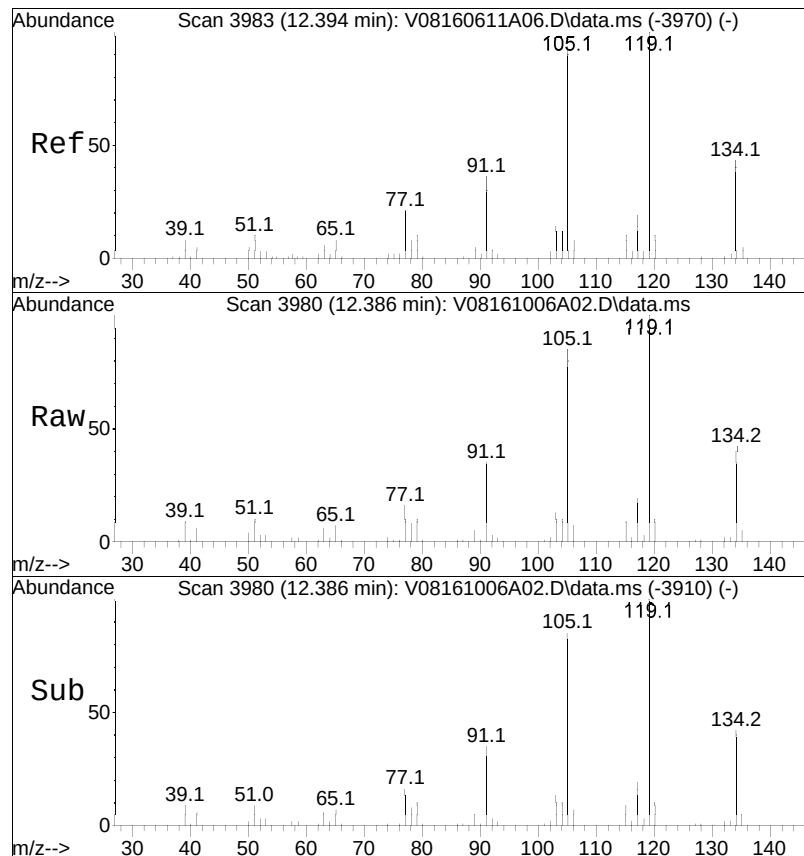




#101
 1,4-Dichlorobenzene
 Concen: 9.47 ug/L
 RT: 12.165 min Scan# 3901
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

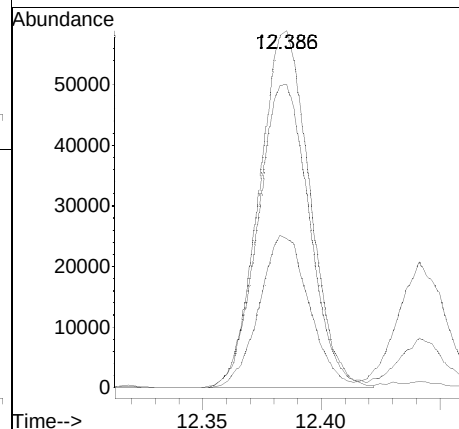
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.1	32.7	49.1
148	64.1	49.6	74.4

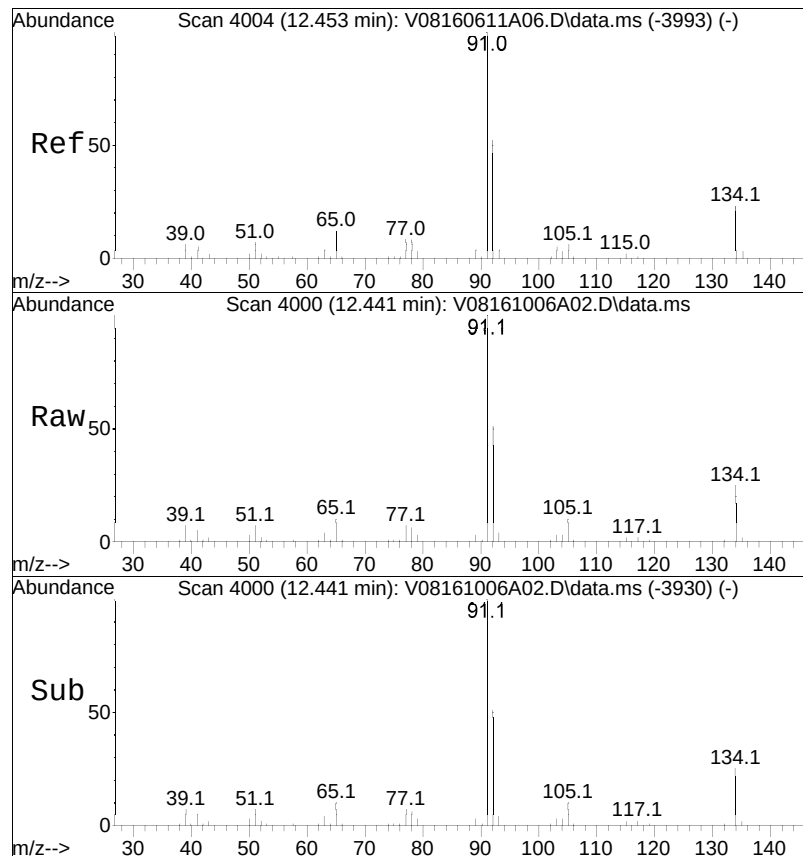




#102
 p-Diethylbenzene
 Concen: 8.35 ug/L
 RT: 12.386 min Scan# 3980
 Delta R.T. -0.005 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

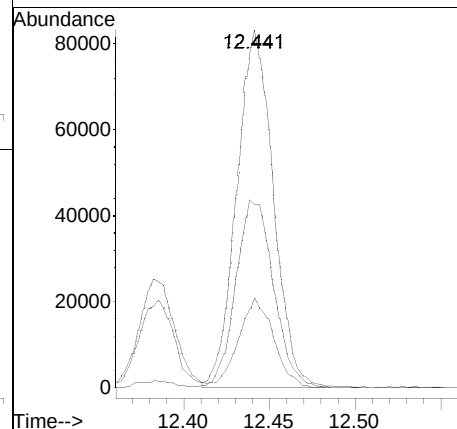
Tgt	Ion:119	Resp:	86787
Ion	Ratio	Lower	Upper
119	100		
105	86.5	57.2	118.8
134	42.3	29.3	60.8

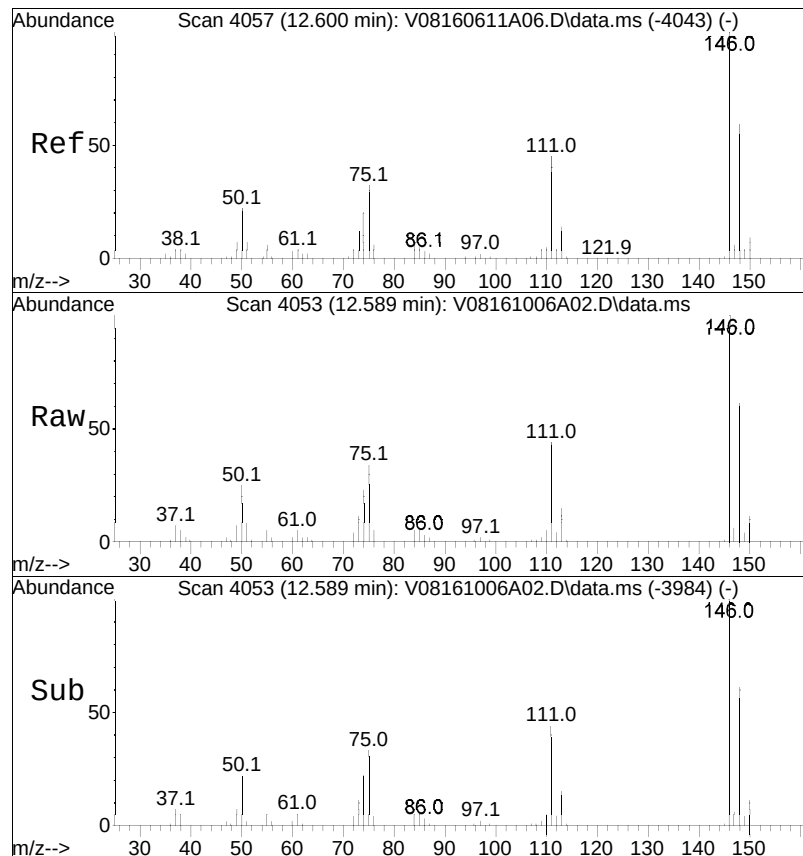




#103
 n-Butylbenzene
 Concen: 8.47 ug/L
 RT: 12.441 min Scan# 4000
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

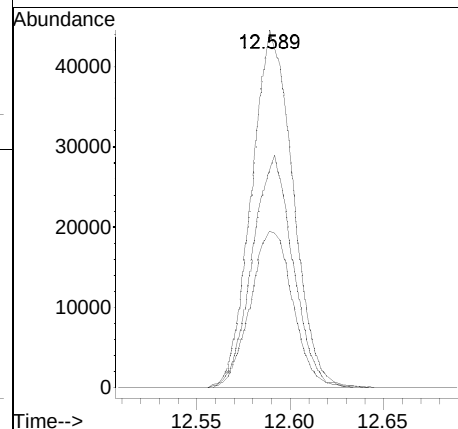
Tgt Ion:	91	Resp:	123071
Ion Ratio	Lower	Upper	
91	100		
92	54.2	43.4	65.2
134	24.2	19.8	29.6

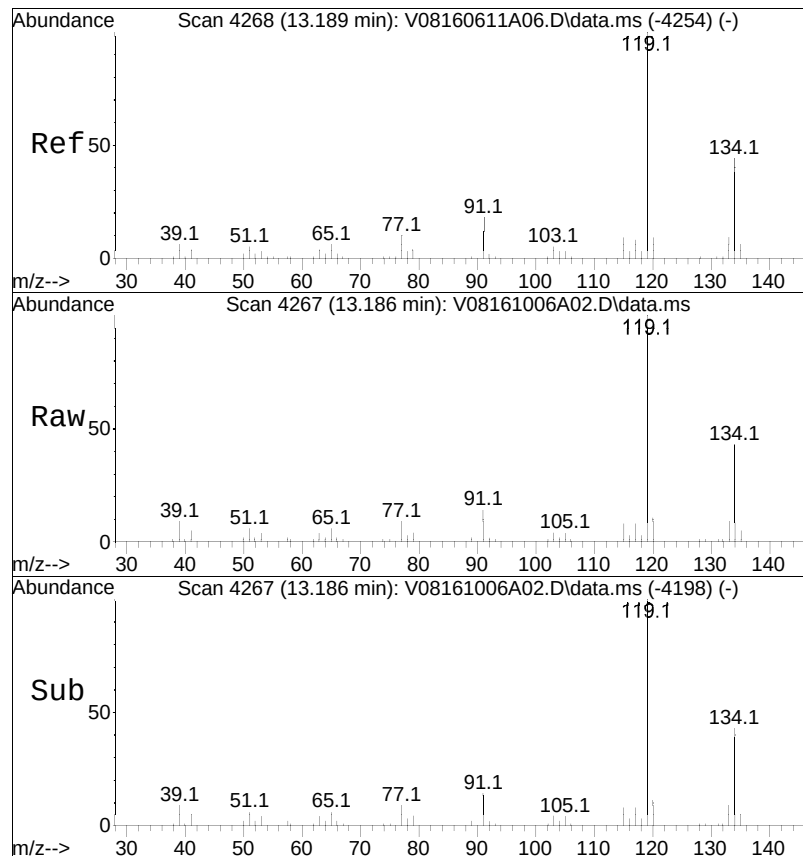




#104
1,2-Dichlorobenzene
Concen: 9.55 ug/L
RT: 12.589 min Scan# 4053
Delta R.T. -0.008 min
Lab File: V08161006A02.D
Acq: 6 Oct 2016 9:34 am

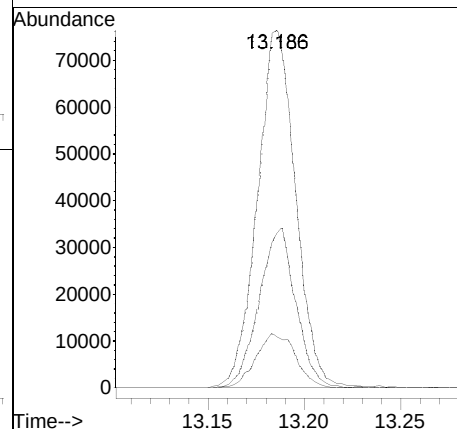
Tgt Ion:	146	Resp:	68336
Ion Ratio	Lower	Upper	
146	100		
111	45.0	28.0	58.1
148	63.8	41.3	85.7

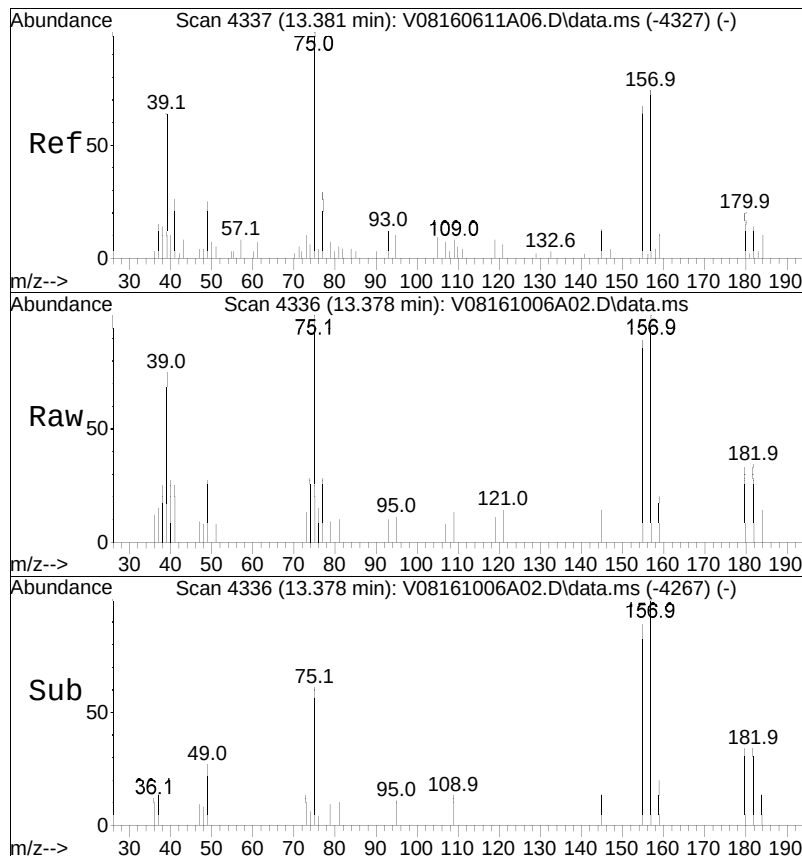




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 8.58 ug/L
 RT: 13.186 min Scan# 4267
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

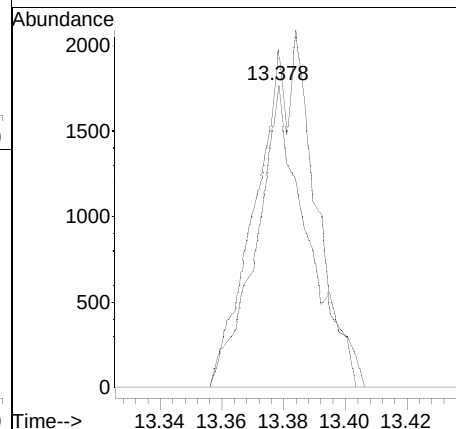
Tgt Ion	Ratio	Lower	Upper
119	100		
134	43.1	29.8	62.0
91	15.9	11.1	23.1

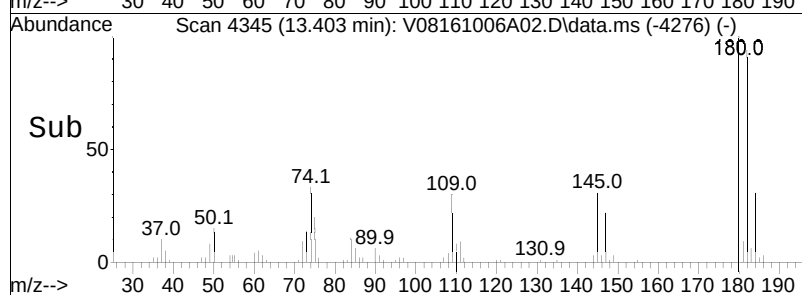
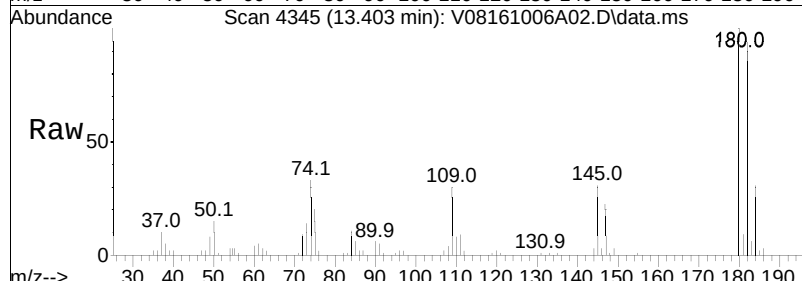
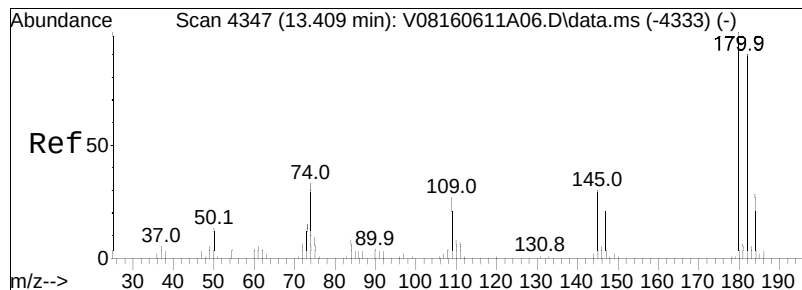




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.40 ug/L
 RT: 13.378 min Scan# 4336
 Delta R.T. -0.009 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

Tgt Ion:155 Resp: 2058
 Ion Ratio Lower Upper
 155 100
 157 128.8 100.8 151.2





#107

1,3,5-Trichlorobenzene

Concen: 9.45 ug/L

RT: 13.403 min Scan# 4345

Delta R.T. -0.009 min

Lab File: V08161006A02.D

Acq: 6 Oct 2016 9:34 am

Tgt Ion:180 Resp: 39620

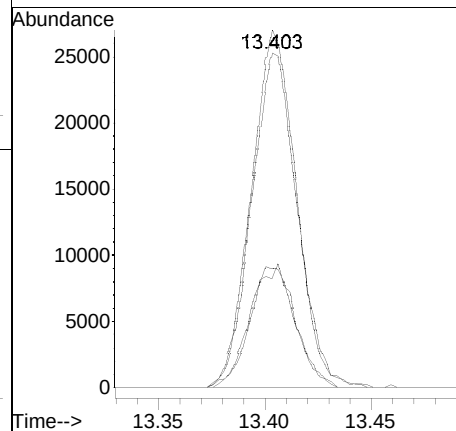
Ion Ratio Lower Upper

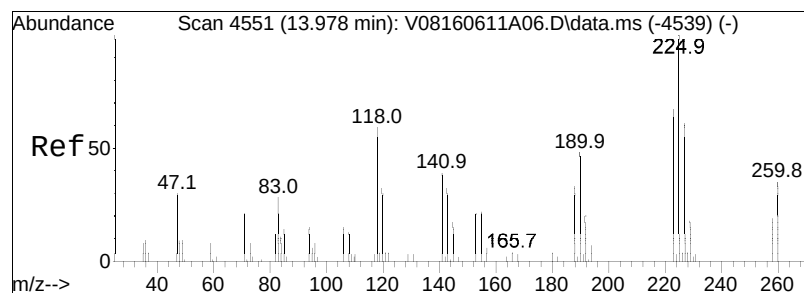
180 100

182 93.9 63.0 131.0

145 33.8 21.3 44.3

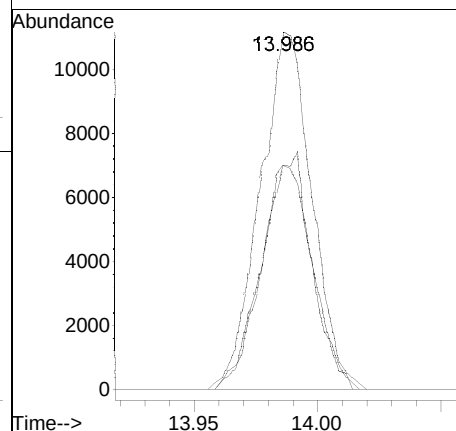
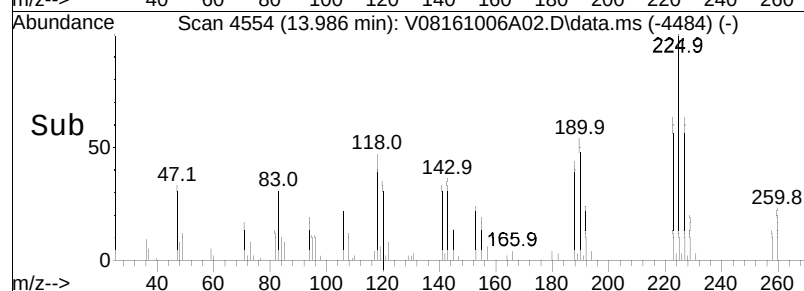
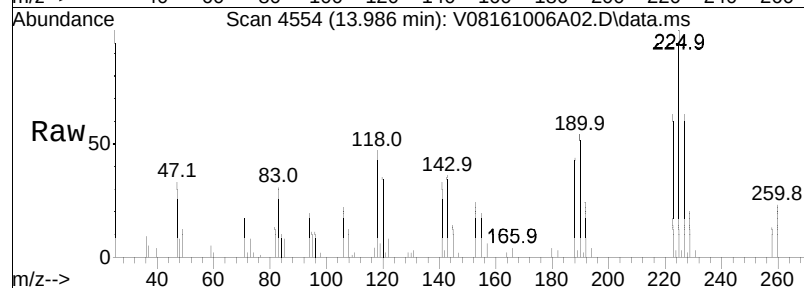
74 35.2 23.1 47.9

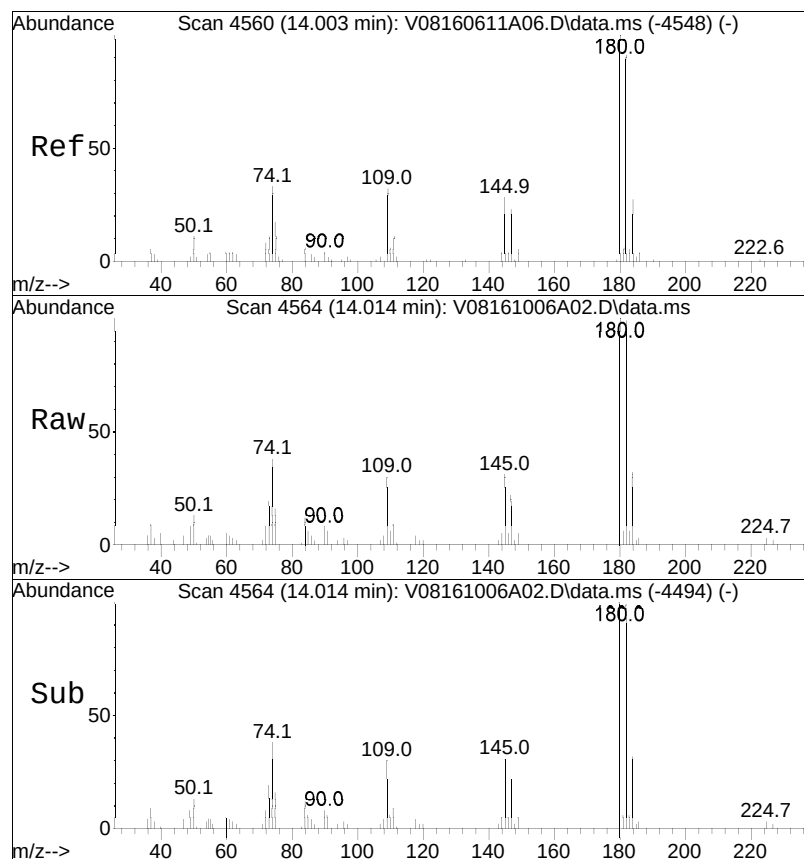




#108
 Hexachlorobutadiene
 Concen: 10.07 ug/L
 RT: 13.986 min Scan# 4554
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

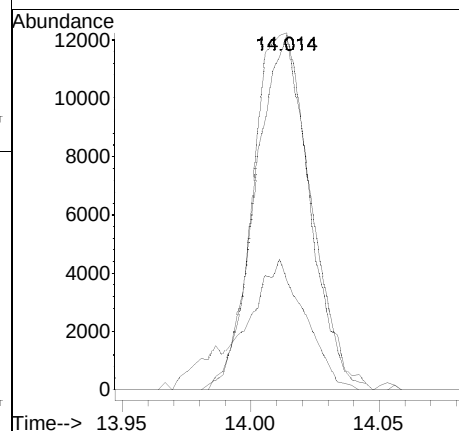
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.6	76.0
227	64.2	50.2	75.2

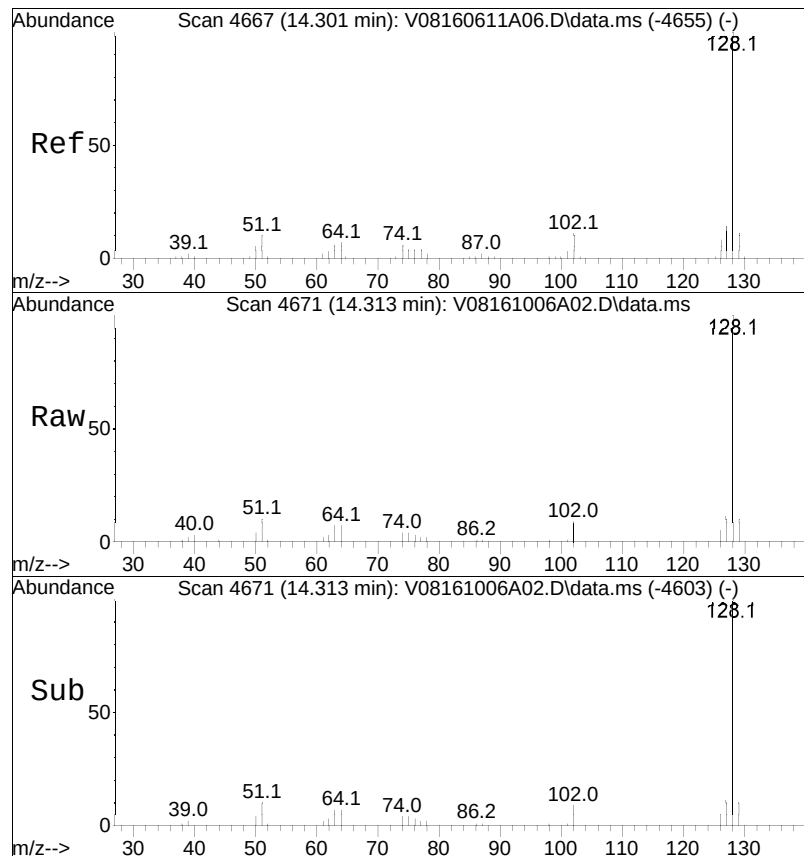




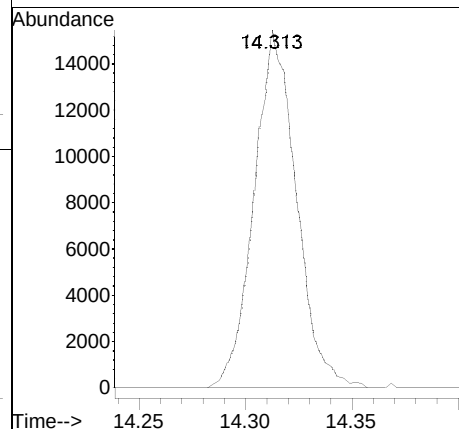
#109
 1,2,4-Trichlorobenzene
 Concen: 6.51 ug/L
 RT: 14.014 min Scan# 4564
 Delta R.T. -0.006 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

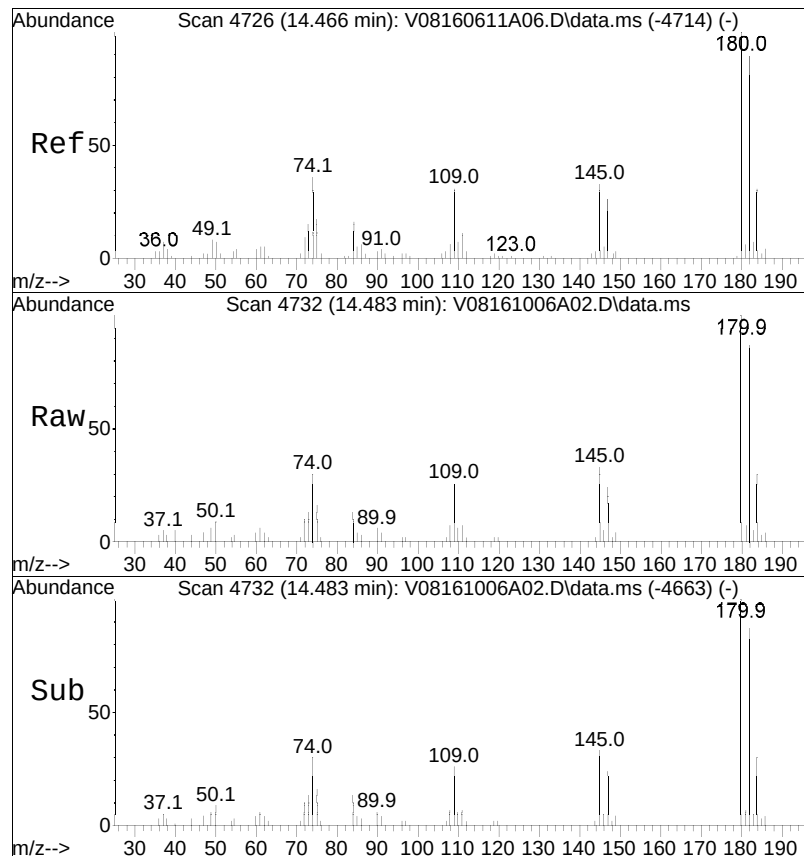
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	79.3	118.9
145	41.6	26.2	39.4





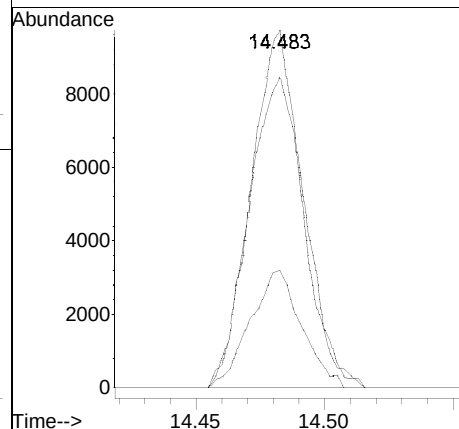
#110
 Naphthalene
 Concen: 5.77 ug/L
 RT: 14.313 min Scan# 4671
 Delta R.T. -0.011 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am
 Tgt Ion:128 Resp: 21167





#111
 1,2,3-Trichlorobenzene
 Concen: 6.77 ug/L
 RT: 14.483 min Scan# 4732
 Delta R.T. -0.008 min
 Lab File: V08161006A02.D
 Acq: 6 Oct 2016 9:34 am

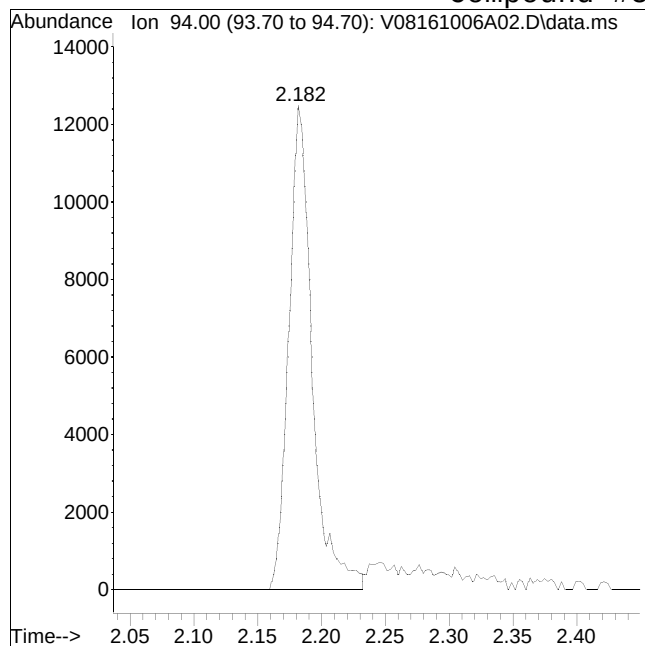
Tgt Ion:	180	Resp:	13618
Ion Ratio	Lower	Upper	
180	100		
182	92.0	77.9	116.9
145	32.5	29.8	44.8



Manual Integration Report

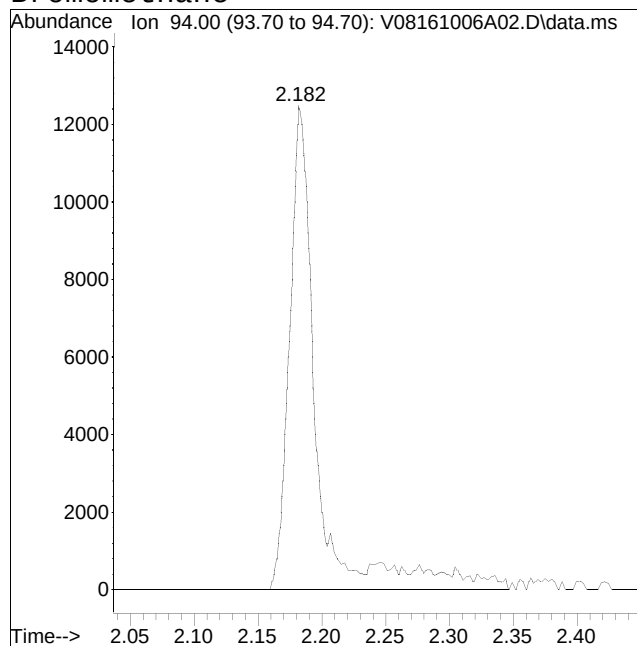
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-10,31,10,10 Quant Date : 10/6/2016 9:53 am

Compound #5: Bromomethane



Original Peak Response = 15950

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

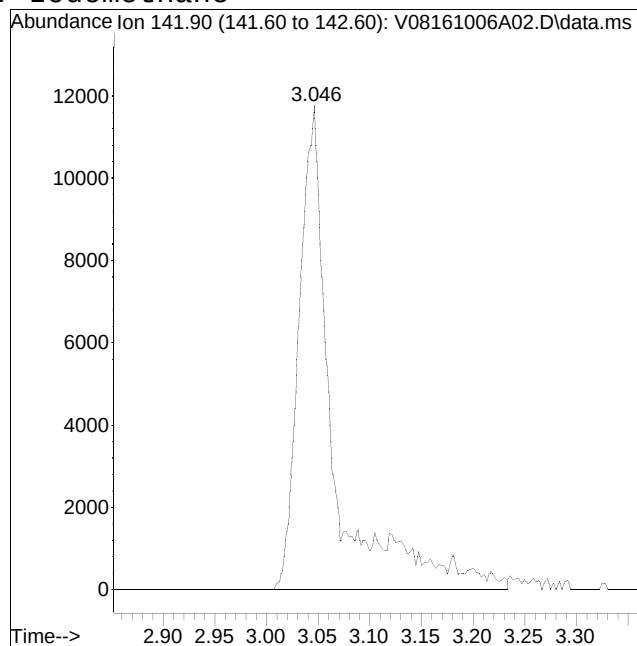
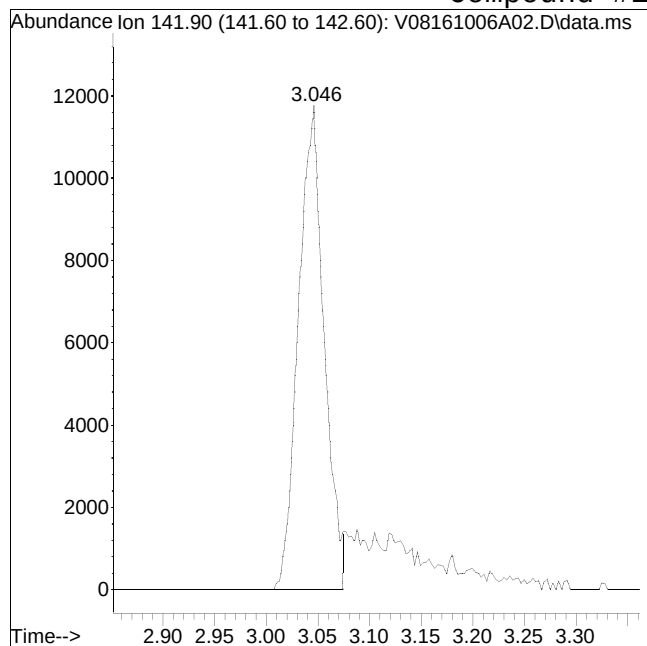


Manual Peak Response = 18889 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-10,31,10,10 Quant Date : 10/6/2016 9:53 am

Compound #13: Iodomethane



Original Peak Response = 20315

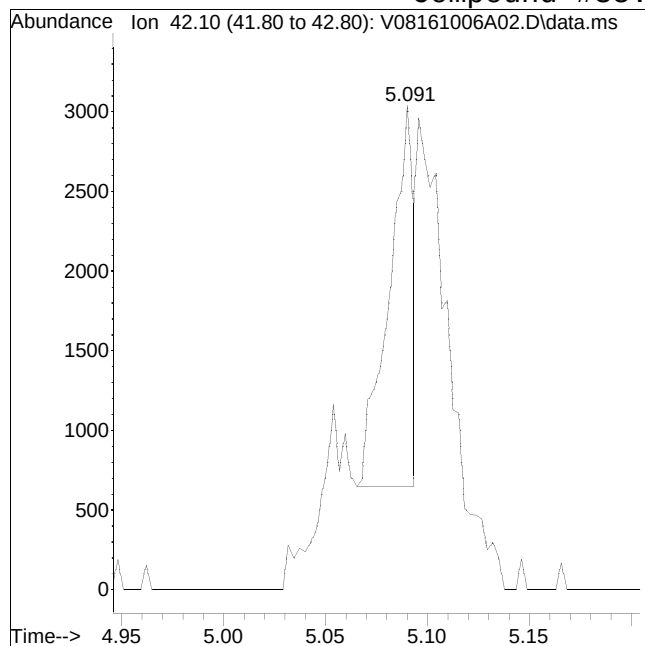
Manual Peak Response = 27612 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

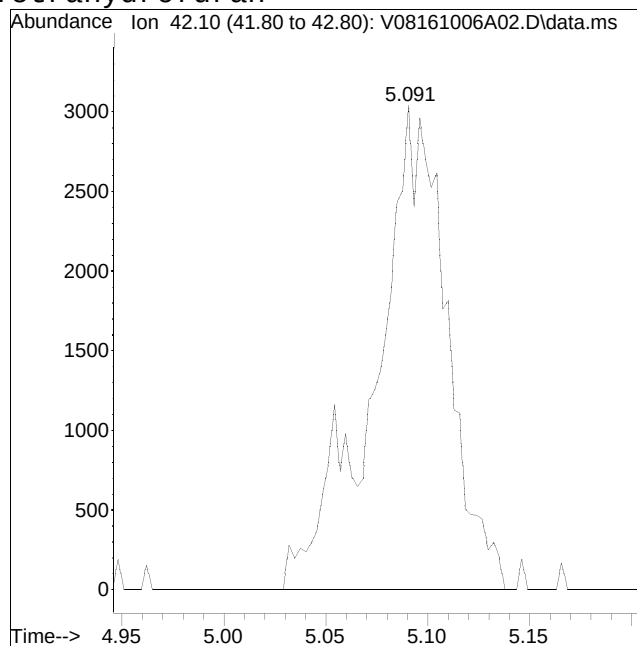
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-10,31,10,10 Quant Date : 10/6/2016 9:53 am

Compound #35: Tetrahydrofuran



Original Peak Response = 1990

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

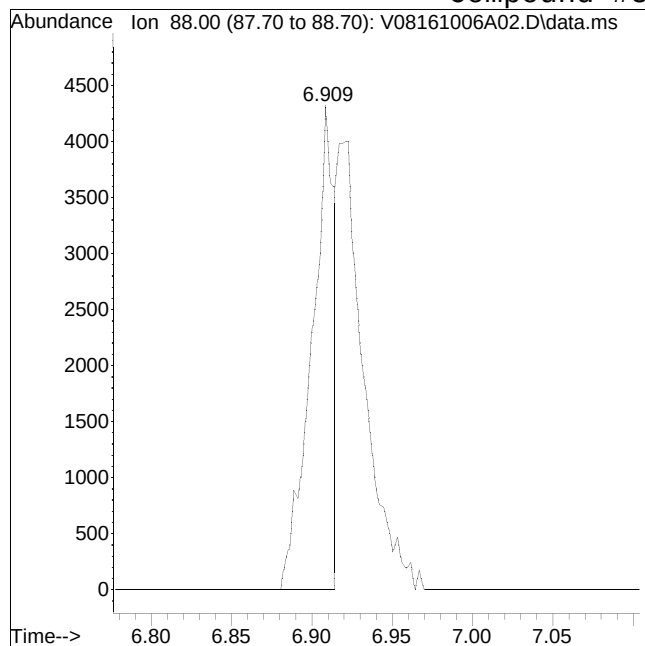


Manual Peak Response = 7521 M1

Manual Integration Report

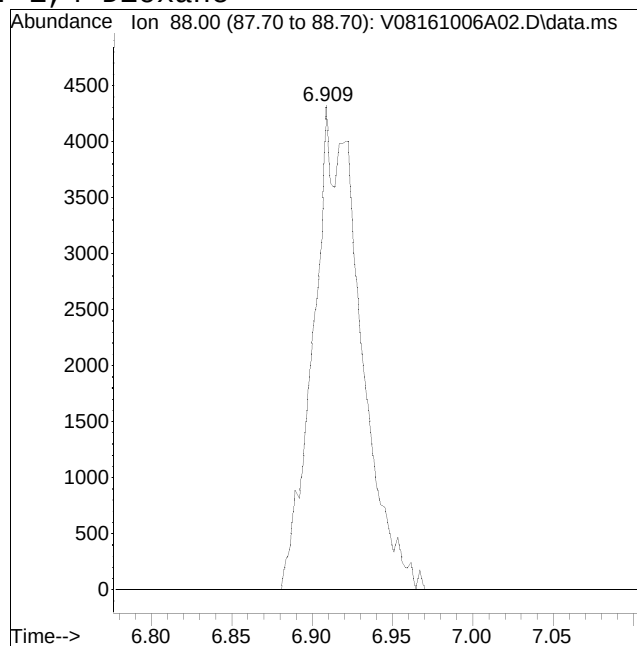
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161006A02.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 9:34 am Instrument : VOA 108
Sample : WG939161-10,31,10,10 Quant Date : 10/6/2016 9:53 am

Compound #57: 1,4-Dioxane



Original Peak Response = 4160

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 8790 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A03.D
 Acq On : 5 Oct 2016 10:24 am
 Operator : VOA108:PD
 Sample : WG939161-4,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 05 11:00:20 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.916	96	257249	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery	=	99.53%	
59) Chlorobenzene-d5	9.430	117	171338	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery	=	101.12%	
79) 1,4-Dichlorobenzene-d4	12.154	152	71416	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery	=	98.88%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.116	113	57151	9.063	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	90.63%	
43) 1,2-Dichloroethane-d4	5.648	65	52265	8.703	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	87.03%	
60) Toluene-d8	7.592	98	235231	10.189	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.89%	
83) 4-Bromofluorobenzene	10.935	95	72577	10.401	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.01%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	66337	10.471	ug/L	98
3) Chloromethane	1.797	50	95302	10.274	ug/L	97
4) Vinyl chloride	1.878	62	82151	9.436	ug/L	97
5) Bromomethane	2.185	94	17260M1	7.434	ug/L	
6) Chloroethane	2.302	64	47218	9.942	ug/L	97
7) Trichlorofluoromethane	2.436	101	96875	10.554	ug/L	99
8) Ethyl ether	2.723	74	17516	8.775	ug/L	94
10) 1,1-Dichloroethene	2.913	96	52568	10.322	ug/L	94
11) Carbon disulfide	2.935	76	169350	9.824	ug/L	99
12) Freon-113	2.946	101	49003	9.675	ug/L	80
13) Iodomethane	3.044	142	34798M1	7.866	ug/L	
14) Acrolein	3.230	56	3450	7.767	ug/L	90
15) Methylene chloride	3.454	84	56090	10.340	ug/L	95
17) Acetone	3.504	43	8477	9.895	ug/L	99
18) trans-1,2-Dichloroethene	3.599	96	67288	10.842	ug/L	94
19) Methyl acetate	3.612	43	18995	10.226	ug/L #	84
20) Methyl tert-butyl ether	3.699	73	78029	9.803	ug/L #	91
21) tert-Butyl alcohol	3.791	59	8418	55.910	ug/L #	91
22) Diisopropyl ether	4.048	45	214253	10.110	ug/L	94
23) 1,1-Dichloroethane	4.176	63	132026	10.081	ug/L	97
24) Halothane	4.232	117	46955	10.857	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A03.D
 Acq On : 5 Oct 2016 10:24 am
 Operator : VOA108:PD
 Sample : WG939161-4,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 05 11:00:20 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) Acrylonitrile	4.234	53	10209	9.568	ug/L	#	86
26) Ethyl tert-butyl ether	4.391	59	138902	9.388	ug/L		92
27) Vinyl acetate	4.413	43	81444	10.224	ug/L	#	94
28) cis-1,2-Dichloroethene	4.686	96	64887	10.372	ug/L		95
29) 2,2-Dichloropropane	4.786	77	86516	11.118	ug/L	#	88
30) Bromochloromethane	4.873	128	22745	9.864	ug/L		83
31) Cyclohexane	4.867	56	142386	9.937	ug/L		91
32) Chloroform	4.945	83	111760	10.664	ug/L		98
33) Ethyl acetate	5.060	43	23332	9.169	ug/L	#	99
34) Carbon tetrachloride	5.065	117	94981	10.345	ug/L		99
35) Tetrahydrofuran	5.093	42	8691M1	9.357	ug/L		
37) 1,1,1-Trichloroethane	5.141	97	108777	10.874	ug/L	#	96
39) 2-Butanone	5.241	43	10343	10.170	ug/L	#	72
40) 1,1-Dichloropropene	5.258	75	86370	10.259	ug/L		98
41) Benzene	5.503	78	254397	10.332	ug/L		99
42) tert-Amyl methyl ether	5.606	73	83222	9.230	ug/L	#	90
44) 1,2-Dichloroethane	5.712	62	61372	9.683	ug/L		97
47) Methyl cyclohexane	6.066	83	92708	9.355	ug/L		96
48) Trichloroethene	6.089	95	70855	10.687	ug/L		98
50) Dibromomethane	6.527	93	21261	9.855	ug/L		97
51) 1,2-Dichloropropane	6.635	63	60162	9.514	ug/L		96
53) 2-Chloroethyl vinyl ether	7.330	63	6476	No Calib	#		
54) Bromodichloromethane	6.702	83	67915	10.148	ug/L	#	98
57) 1,4-Dioxane	6.920	88	10167M1	497.289	ug/L		
58) cis-1,3-Dichloropropene	7.391	75	64700	8.960	ug/L		97
61) Toluene	7.650	92	159219	10.814	ug/L		98
62) 4-Methyl-2-pentanone	8.091	58	6938	7.809	ug/L	#	92
63) Tetrachloroethene	8.085	166	64248	10.437	ug/L		97
65) trans-1,3-Dichloropropene	8.136	75	47190	9.556	ug/L		97
67) Ethyl methacrylate	8.325	69	25243	7.605	ug/L		92
68) 1,1,2-Trichloroethane	8.328	83	24398	10.463	ug/L		98
69) Chlorodibromomethane	8.526	129	35489	9.852	ug/L		94
70) 1,3-Dichloropropane	8.643	76	48083	9.548	ug/L		99
71) 1,2-Dibromoethane	8.805	107	25269	9.922	ug/L		94
72) 2-Hexanone	9.095	43	10076M1	7.307	ug/L		
73) Chlorobenzene	9.449	112	152163	9.960	ug/L		91
74) Ethylbenzene	9.485	91	294254	10.761	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.536	131	47994	9.723	ug/L	#	83
76) p/m Xylene	9.675	106	226117	20.954	ug/L		97
77) o Xylene	10.219	106	200260	20.632	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A03.D
 Acq On : 5 Oct 2016 10:24 am
 Operator : VOA108:PD
 Sample : WG939161-4,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 05 11:00:20 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.288	104	317231	20.983	ug/L	98
80)	Bromoform	10.308	173	15571	10.242	ug/L	98
82)	Isopropylbenzene	10.606	105	277316	11.156	ug/L	99
84)	Bromobenzene	11.044	156	48301	10.356	ug/L	99
85)	n-Propylbenzene	11.092	91	319155	11.291	ug/L	98
86)	1,4-Dichlorobutane	11.117	55	59866	10.930	ug/L	96
87)	1,1,2,2-Tetrachloroethane	11.184	83	26188	10.648	ug/L	97
88)	4-Ethyltoluene	11.220	105	266492	11.370	ug/L	99
89)	2-Chlorotoluene	11.256	91	200240	11.815	ug/L	100
90)	1,3,5-Trimethylbenzene	11.320	105	215318	11.266	ug/L #	76
91)	1,2,3-Trichloropropane	11.329	75	21567	10.707	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.379	53	8425	10.529	ug/L	92
93)	4-Chlorotoluene	11.443	91	185831	11.534	ug/L #	100
94)	tert-Butylbenzene	11.660	119	172041	9.293	ug/L	90
97)	1,2,4-Trimethylbenzene	11.741	105	190481	10.949	ug/L	99
98)	sec-Butylbenzene	11.853	105	247493	10.442	ug/L	98
99)	p-Isopropyltoluene	12.012	119	184190	10.251	ug/L	98
100)	1,3-Dichlorobenzene	12.073	146	98765	10.163	ug/L	98
101)	1,4-Dichlorobenzene	12.165	146	92123	9.821	ug/L	98
102)	p-Diethylbenzene	12.386	119	99426	8.961	ug/L	97
103)	n-Butylbenzene	12.444	91	144934	9.342	ug/L	100
104)	1,2-Dichlorobenzene	12.595	146	74605	9.806	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.189	119	118064	9.125	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.378	155	2430	9.322	ug/L	99
107)	1,3,5-Trichlorobenzene	13.406	180	44854	10.057	ug/L	99
108)	Hexachlorobutadiene	13.992	225	18146	10.602	ug/L	97
109)	1,2,4-Trichlorobenzene	14.017	180	20861	6.779	ug/L #	93
110)	Naphthalene	14.315	128	23810	6.056	ug/L	100
111)	1,2,3-Trichlorobenzene	14.483	180	14808	6.911	ug/L	98

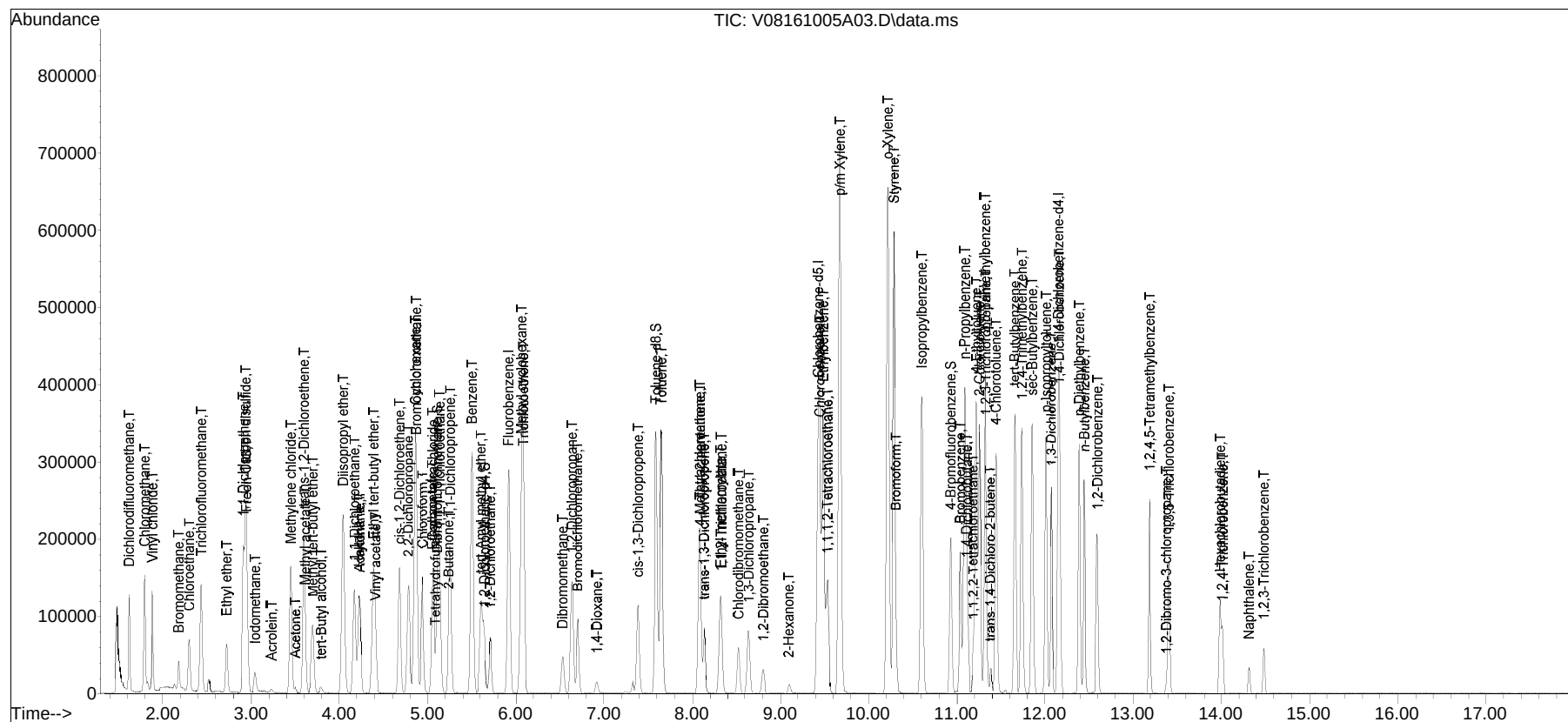
(#) = qualifier out of range (m) = manual integration (+) = signals summed

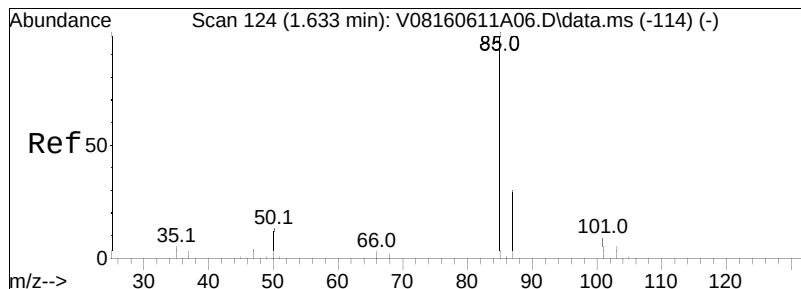
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A03.D
 Acq On : 5 Oct 2016 10:24 am
 Operator : VOA108:PD
 Sample : WG939161-4,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 05 11:00:20 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

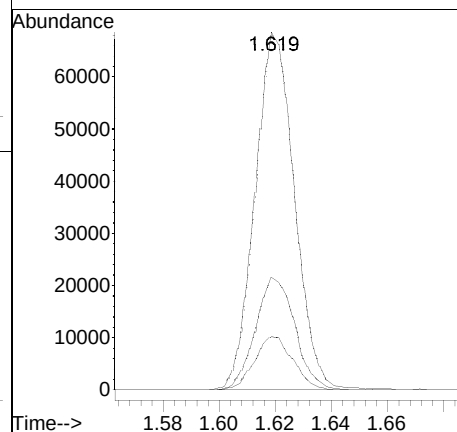
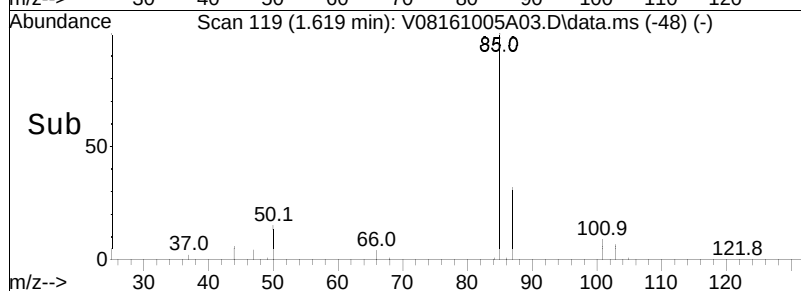
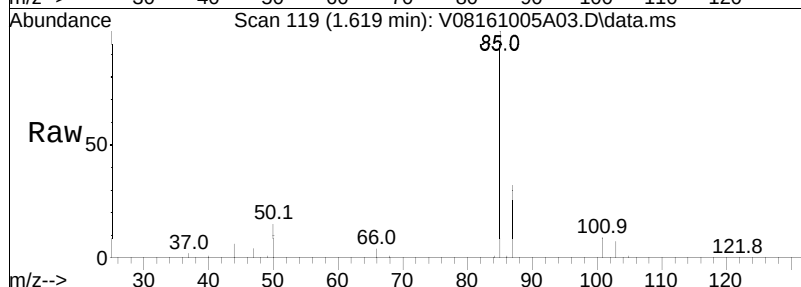
Sub List : 8260-Curve - Megamix plus Diox61005A\V08161005A02.D•

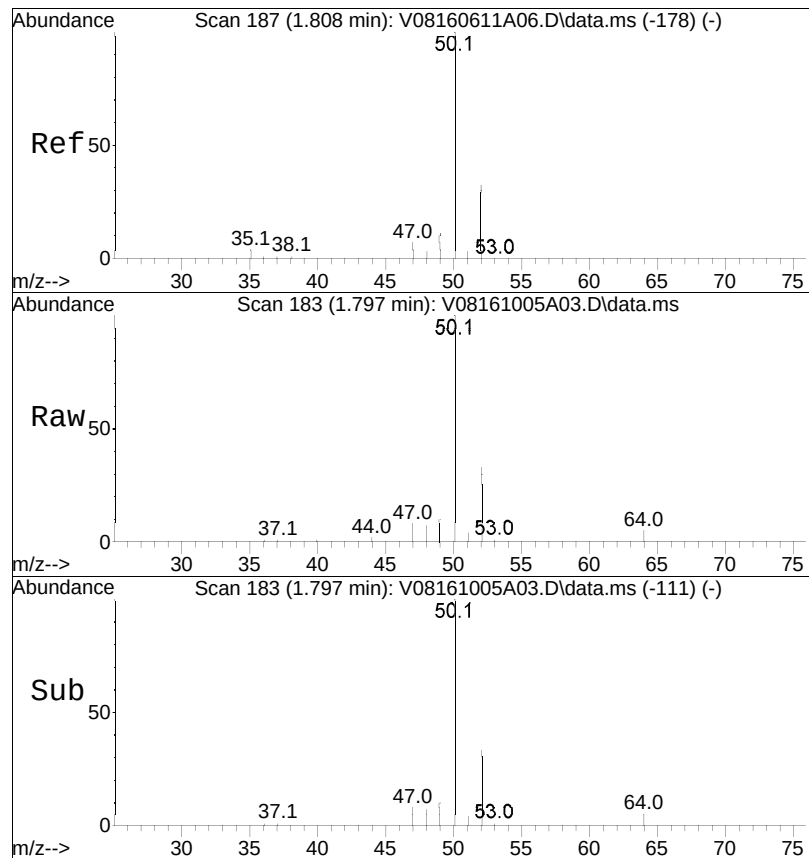




#2
 Dichlorodifluoromethane
 Concen: 10.47 ug/L
 RT: 1.619 min Scan# 119
 Delta R.T. -0.002 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

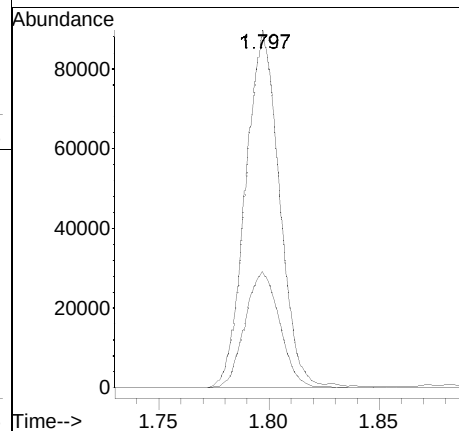
Tgt Ion	Ratio	Resp	Lower	Upper
85	100			
87	31.5	21.4	44.4	
50	14.7	10.0	20.8	

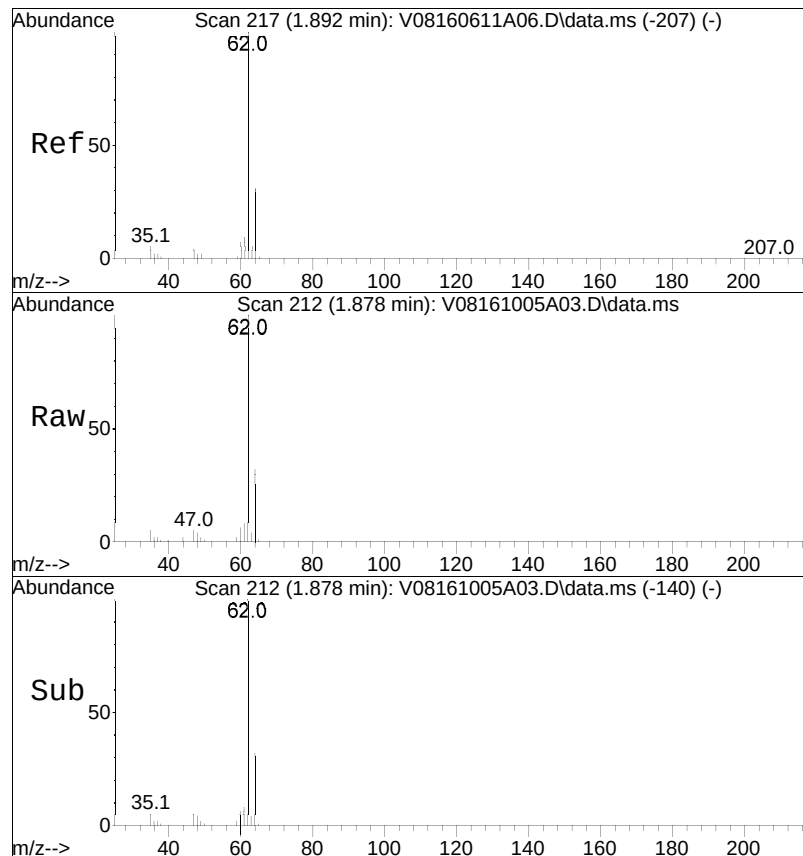




#3
 Chloromethane
 Concen: 10.27 ug/L
 RT: 1.797 min Scan# 183
 Delta R.T. 0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

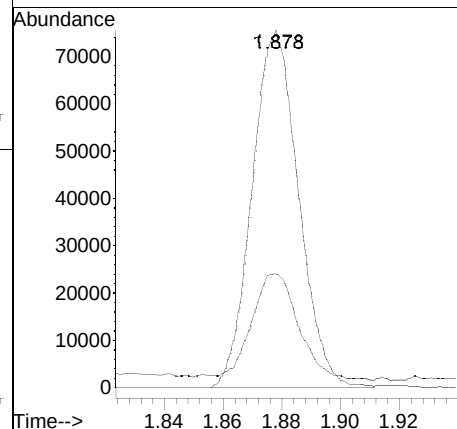
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.2	11.8	51.8

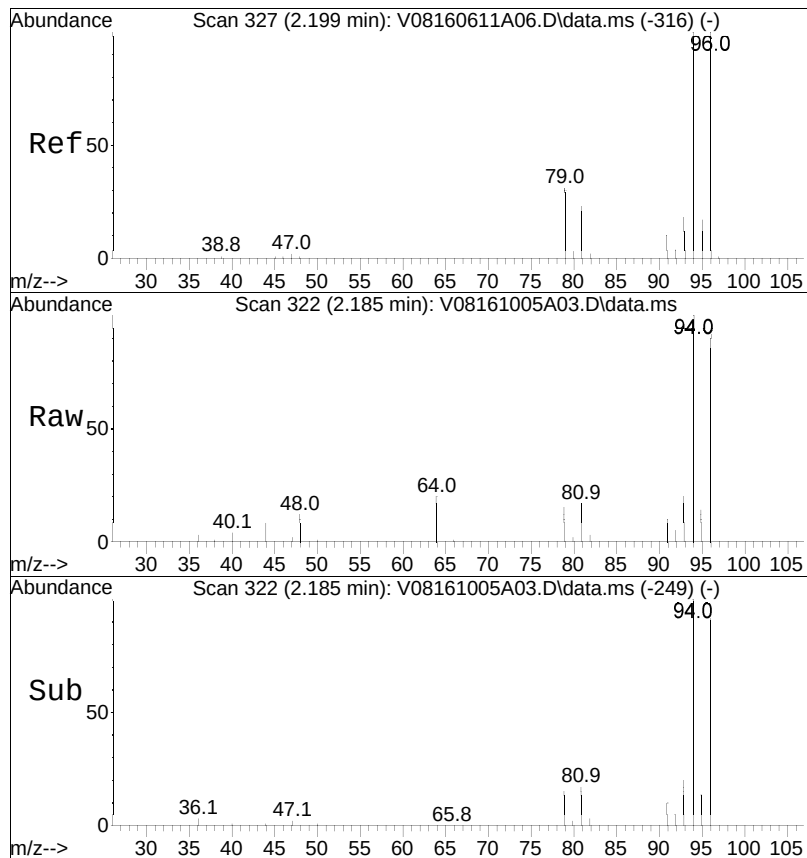




#4
 Vinyl chloride
 Concen: 9.44 ug/L
 RT: 1.878 min Scan# 212
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

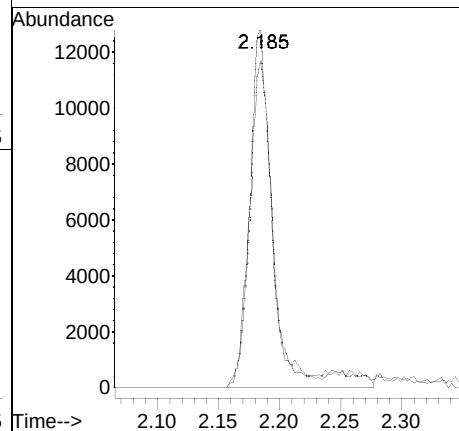
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	9.7	49.7

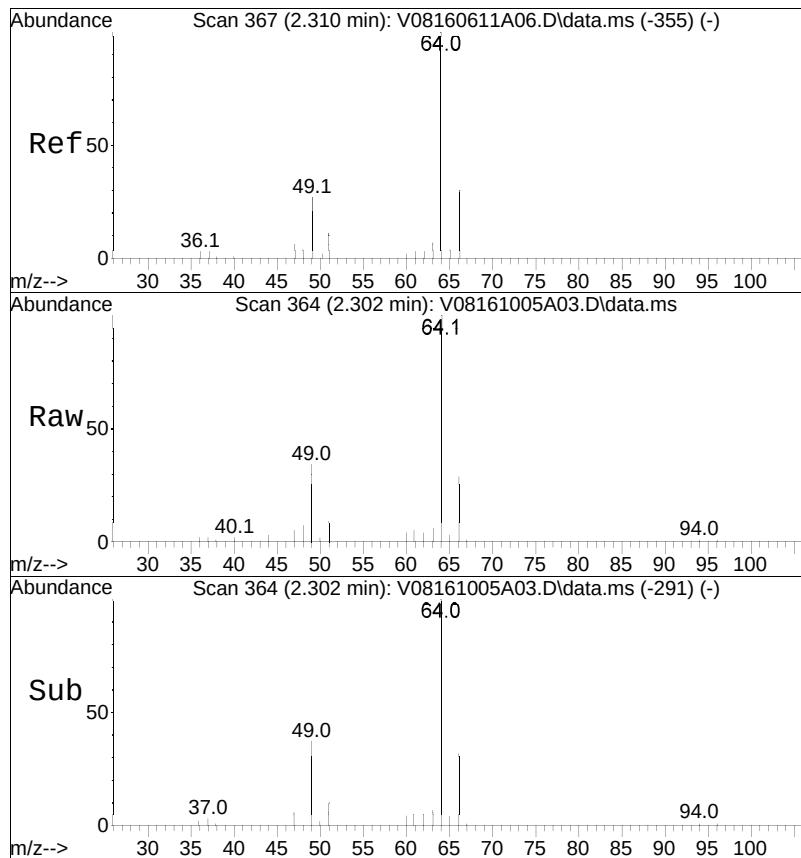




#5
 Bromomethane
 Concen: 7.43 ug/L M1
 RT: 2.185 min Scan# 322
 Delta R.T. 0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

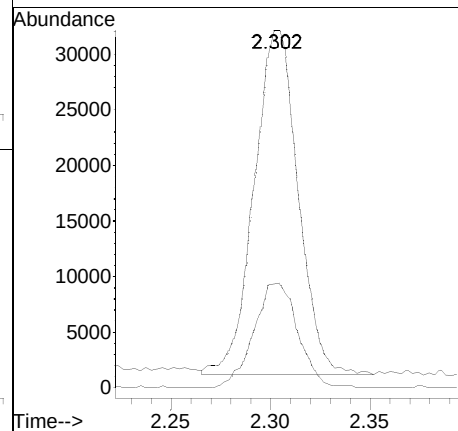
Tgt Ion	94	Resp	17260
Ion Ratio	100	Lower	Upper
96	85.8	75.7	115.7

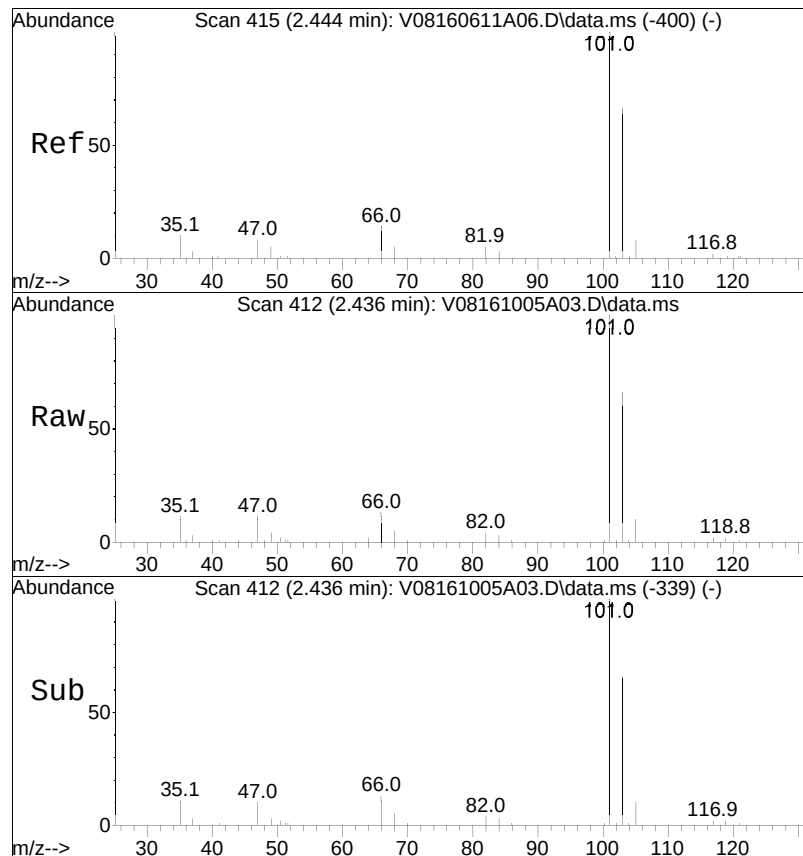




#6
 Chloroethane
 Concen: 9.94 ug/L
 RT: 2.302 min Scan# 364
 Delta R.T. 0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

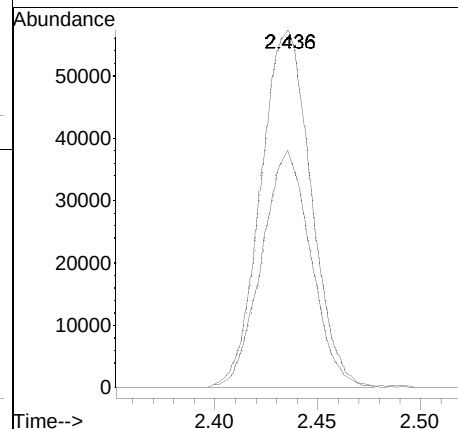
Tgt Ion	Ratio	Lower	Upper
64	100		
66	30.8	9.1	49.1

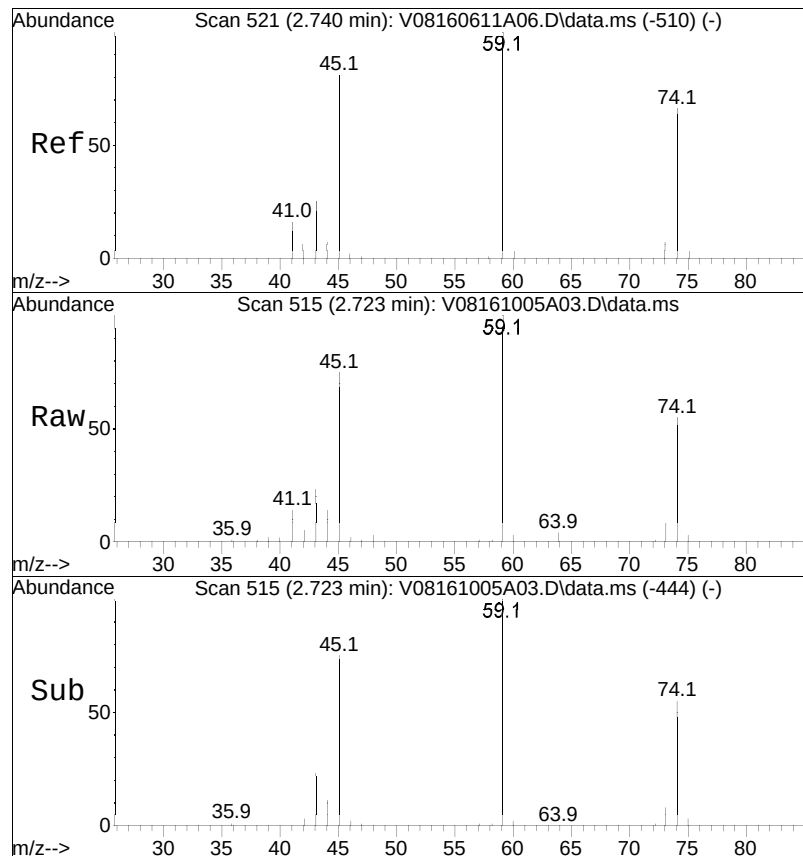




#7
 Trichlorofluoromethane
 Concen: 10.55 ug/L
 RT: 2.436 min Scan# 412
 Delta R.T. 0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

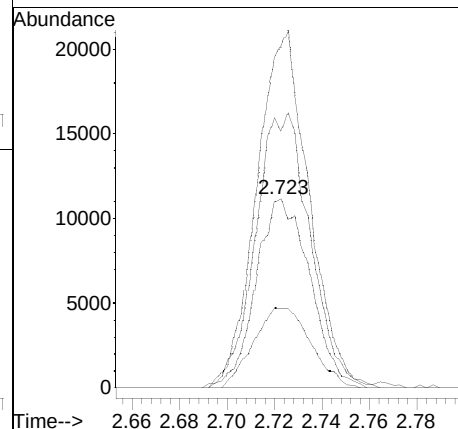
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.7	77.5

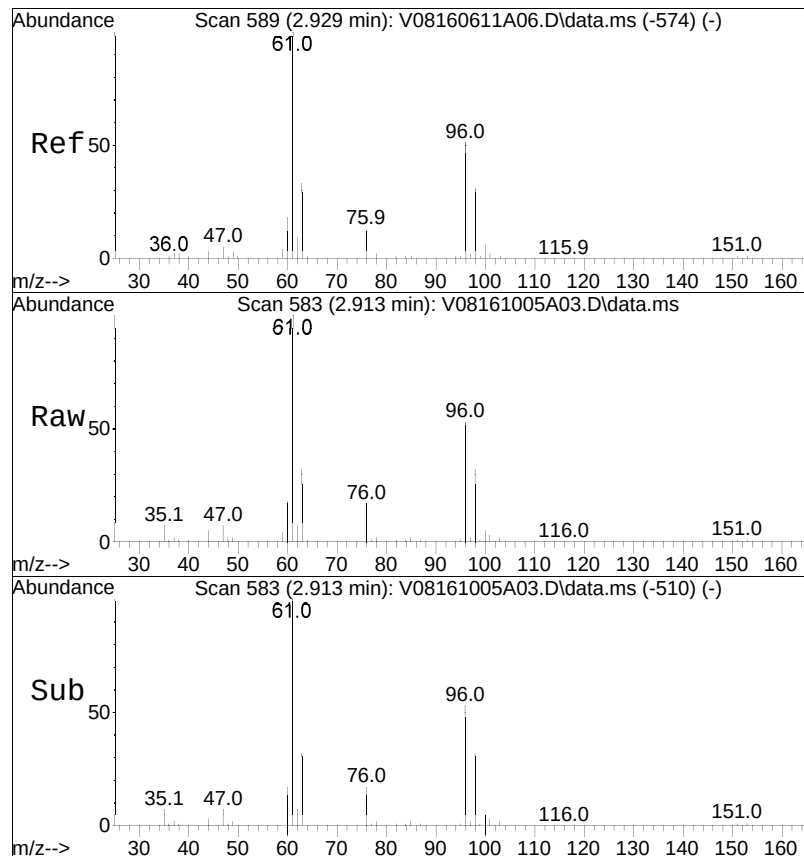




#8
 Ethyl ether
 Concen: 8.78 ug/L
 RT: 2.723 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

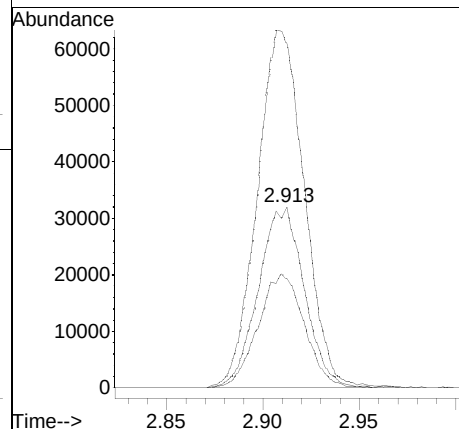
Tgt Ion:	74	Resp:	17516
Ion	Ratio	Lower	Upper
74	100		
59	182.7	126.0	261.8
45	147.0	99.2	206.0
43	44.9	26.7	55.4

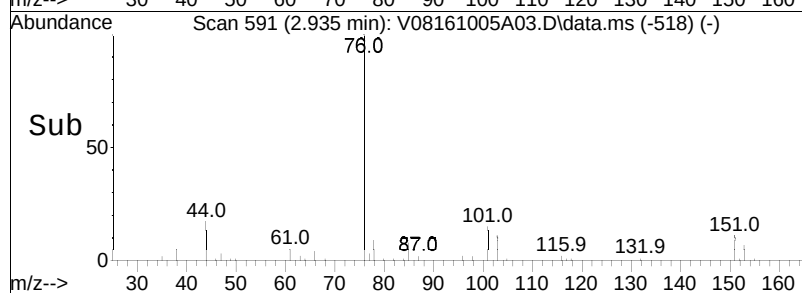
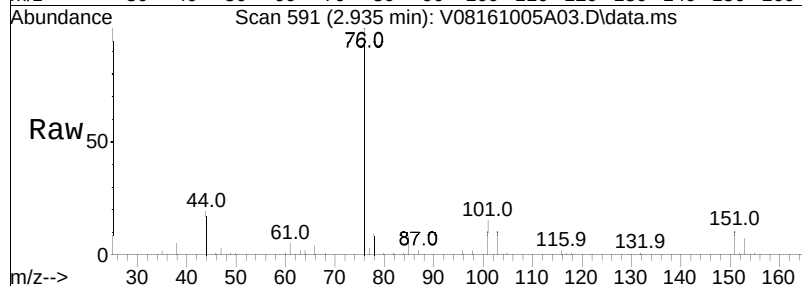
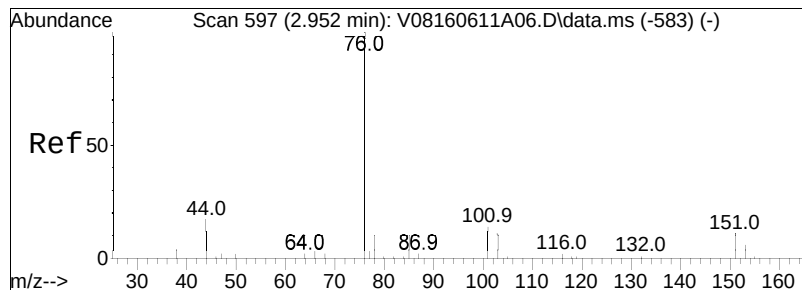




#10
 1,1-Dichloroethene
 Concen: 10.32 ug/L
 RT: 2.913 min Scan# 583
 Delta R.T. 0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

Tgt Ion:	96	Resp:	52568
Ion Ratio	Lower	Upper	
96	100		
61	202.4	171.2	256.8
63	63.7	52.6	78.8





#11

Carbon disulfide

Concen: 9.82 ug/L

RT: 2.935 min Scan# 591

Delta R.T. 0.003 min

Lab File: V08161005A03.D

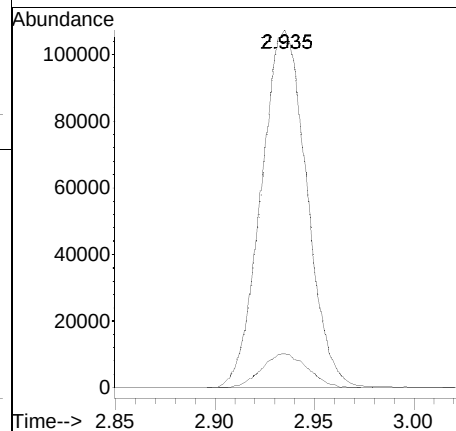
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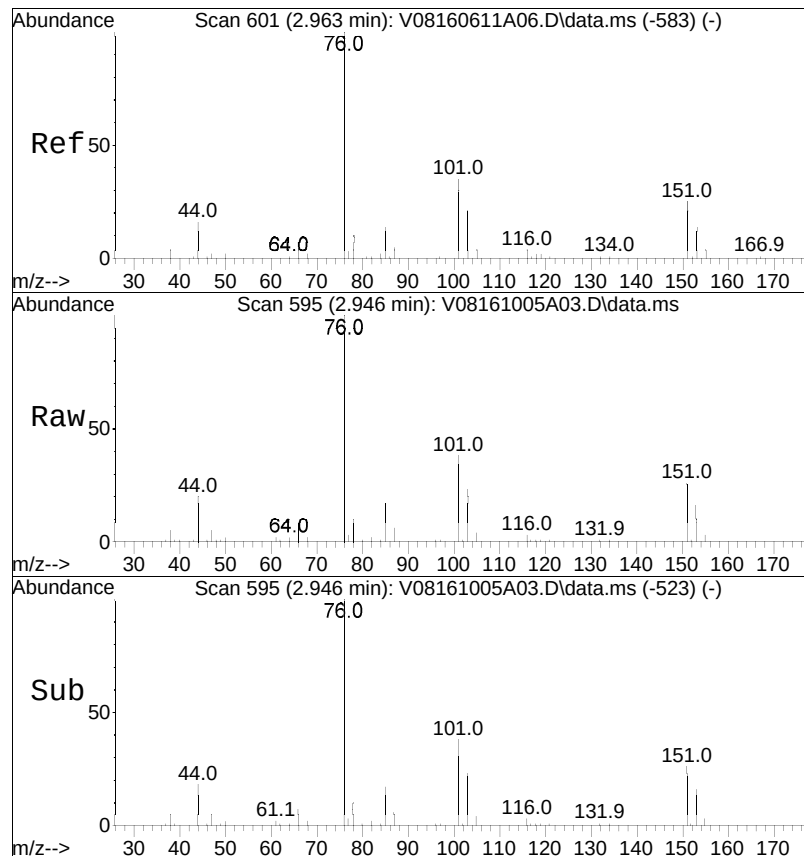
Tgt Ion: 76 Resp: 169350

Ion Ratio Lower Upper

76 100

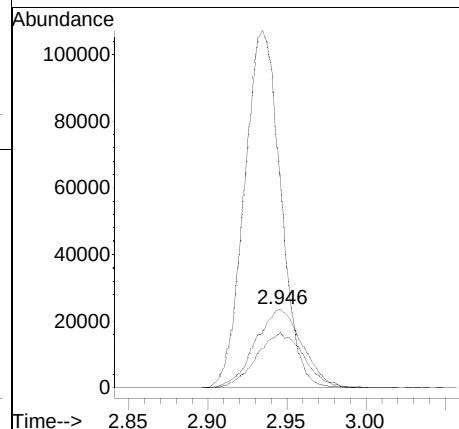
78 9.9 6.6 13.8

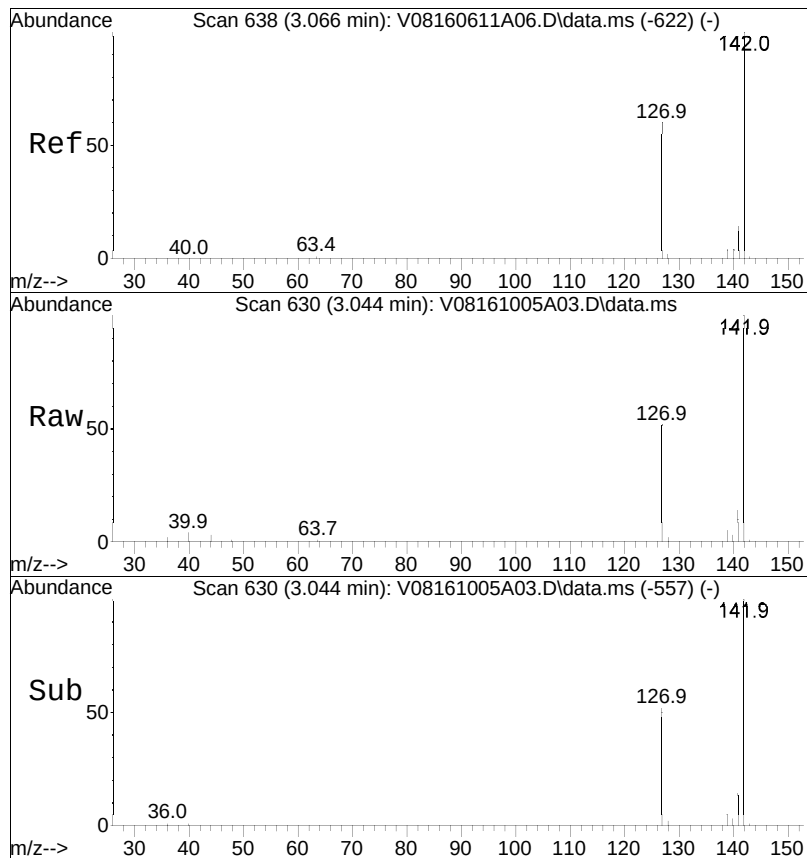




#12
 Freon-113
 Concen: 9.67 ug/L
 RT: 2.946 min Scan# 595
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

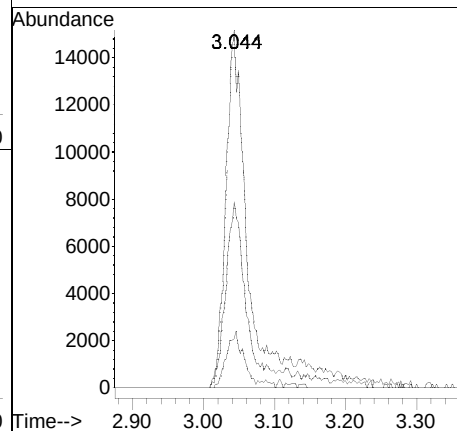
Tgt Ion	101	Resp	49003
Ion Ratio	Lower	Upper	
101	100		
151	70.0	60.4	90.6
76	345.6	240.1	360.1

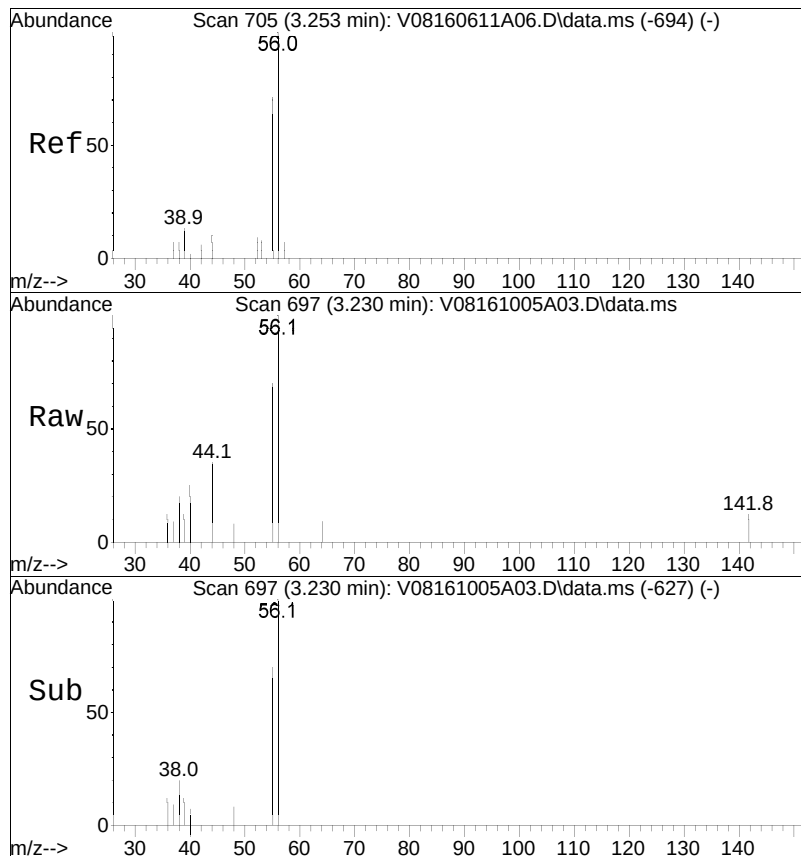




#13
 Iodomethane
 Concen: 7.87 ug/L M1
 RT: 3.044 min Scan# 630
 Delta R.T. 0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

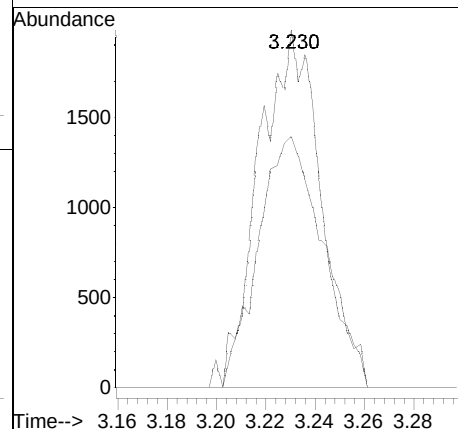
Tgt Ion	Ratio	Lower	Upper
142	100		
127	41.9	33.2	69.0
141	11.3	9.4	19.6

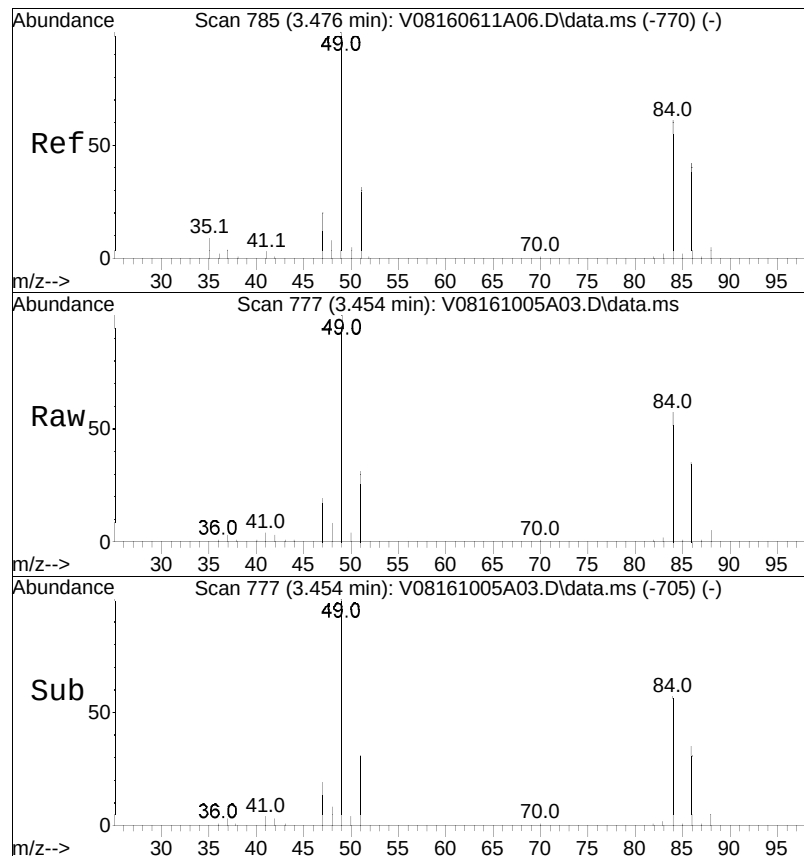




#14
 Acrolein
 Concen: 7.77 ug/L
 RT: 3.230 min Scan# 697
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

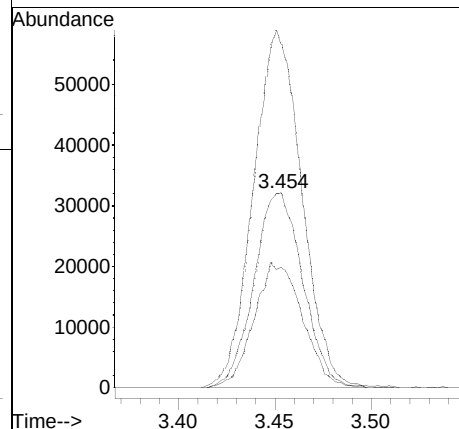
Tgt Ion	Ratio	Lower	Upper
56	100		
55	72.8	52.1	78.1

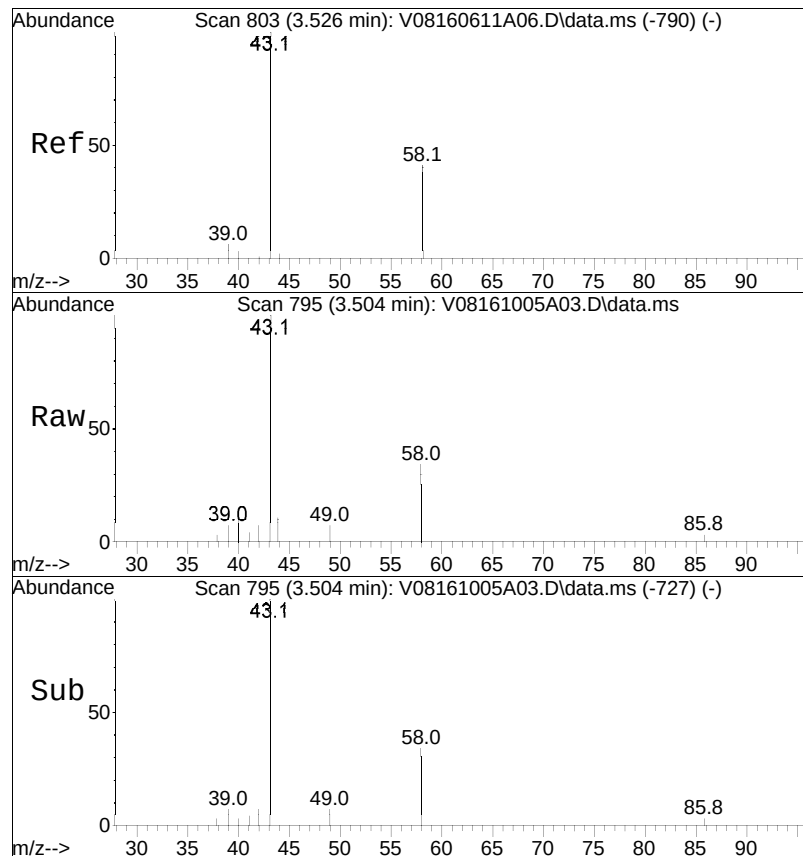




#15
 Methylene chloride
 Concen: 10.34 ug/L
 RT: 3.454 min Scan# 777
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

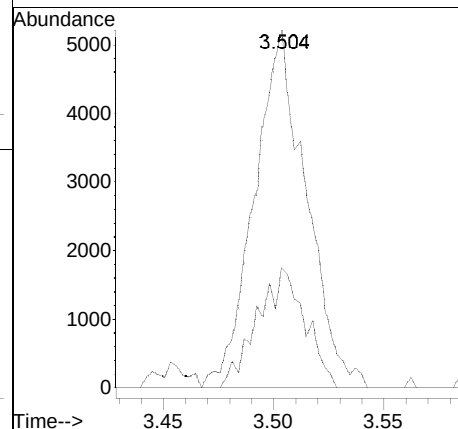
Tgt Ion:	84	Resp:	56090
Ion Ratio	Lower	Upper	
84	100		
86	64.3	41.7	86.7
49	182.2	124.3	258.1

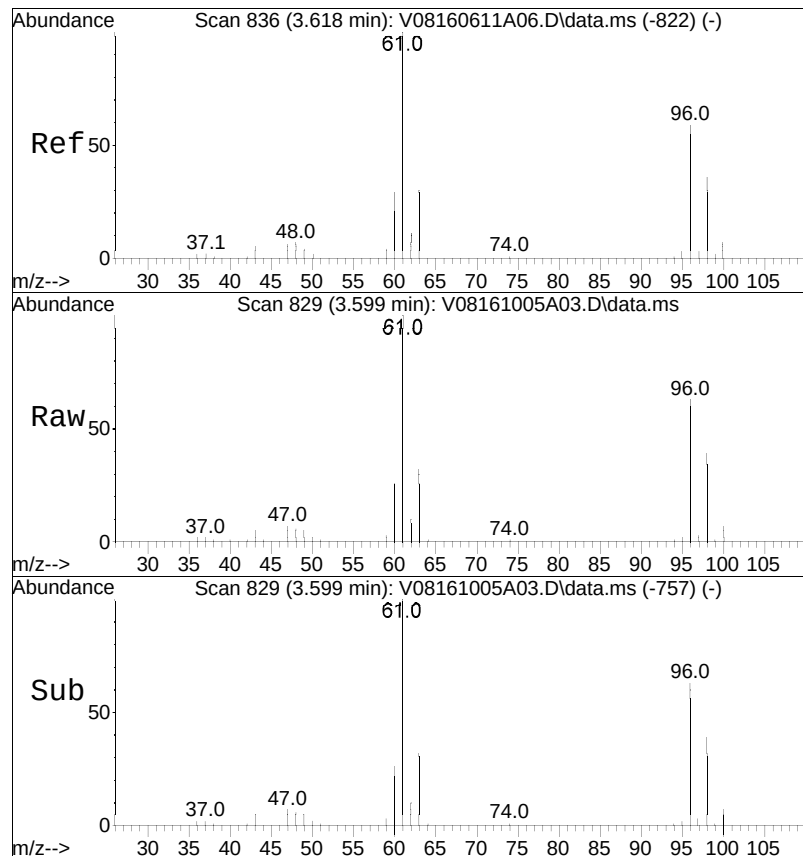




#17
 Acetone
 Concen: 9.89 ug/L
 RT: 3.504 min Scan# 795
 Delta R.T. -0.011 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

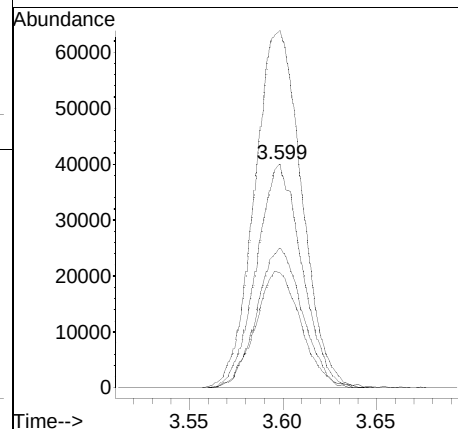
Tgt Ion:	43	Resp:	8477
Ion Ratio	Lower	Upper	
43	100		
58	30.9	24.5	36.7

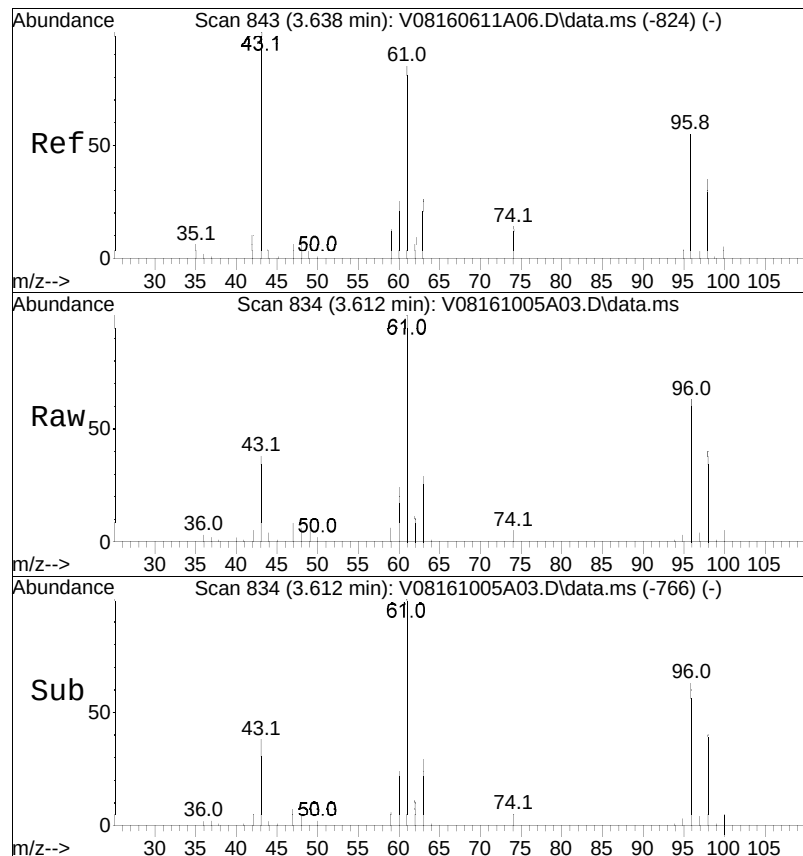




#18
 trans-1,2-Dichloroethene
 Concen: 10.84 ug/L
 RT: 3.599 min Scan# 829
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

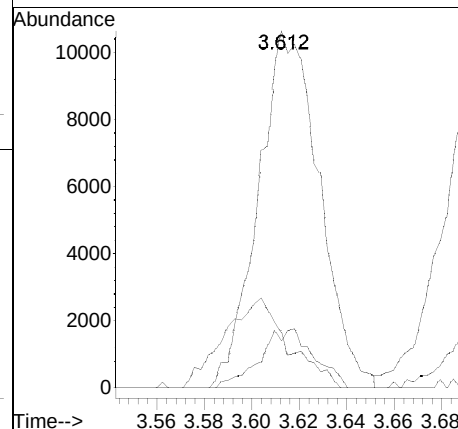
Tgt Ion:	96	Resp:	67288
Ion Ratio	Lower	Upper	
96	100		
61	165.5	114.1	236.9
98	62.9	42.1	87.3
63	52.1	36.1	74.9

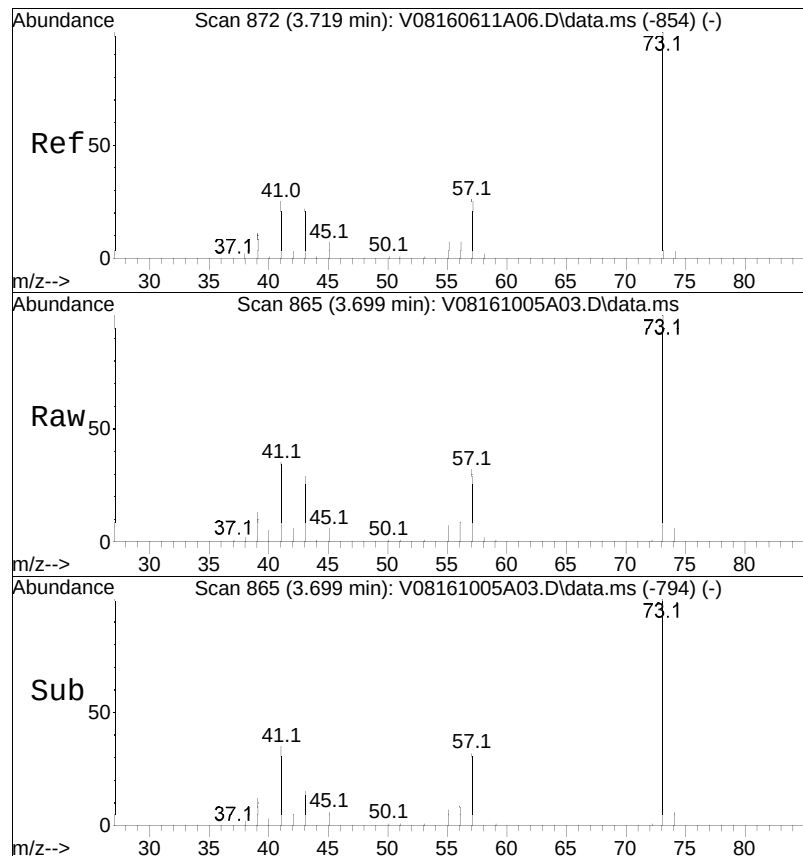




#19
Methyl acetate
Concen: 10.23 ug/L
RT: 3.612 min Scan# 834
Delta R.T. -0.012 min
Lab File: V08161005A03.D
Acq: 5 Oct 2016 10:24 am

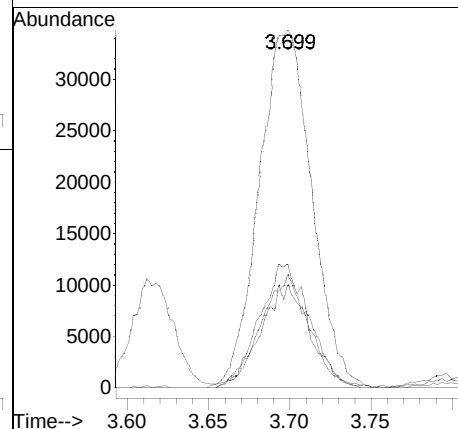
Tgt Ion:	43	Resp:	18995
Ion Ratio	Lower	Upper	
43	100		
74	14.6	6.5	9.7#
59	26.4	15.6	23.4#

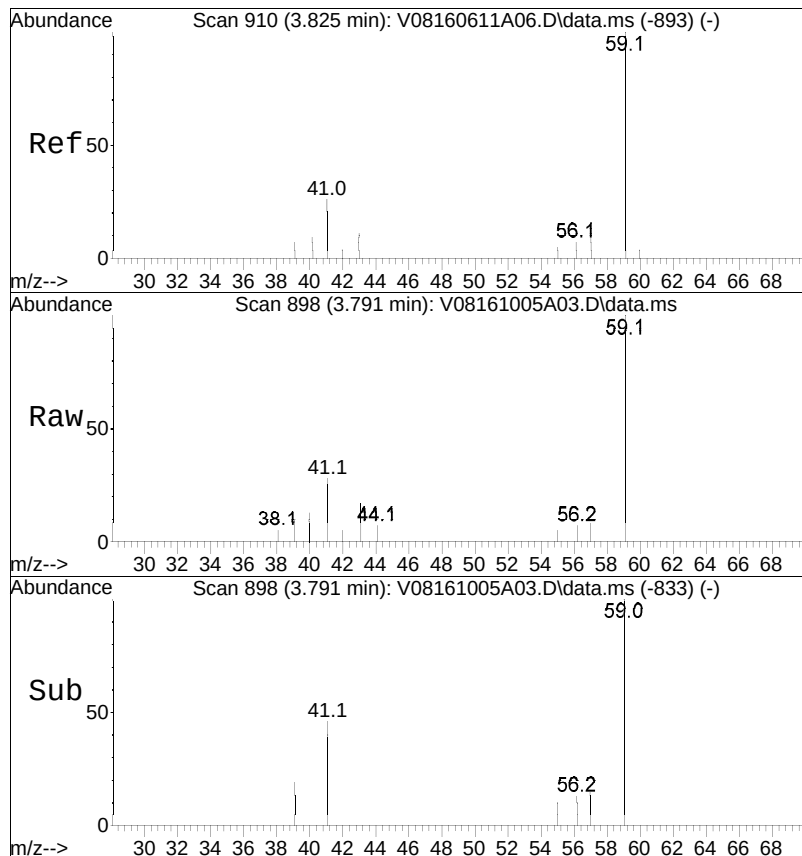




#20
Methyl tert-butyl ether
Concen: 9.80 ug/L
RT: 3.699 min Scan# 865
Delta R.T. -0.003 min
Lab File: V08161005A03.D
Acq: 5 Oct 2016 10:24 am

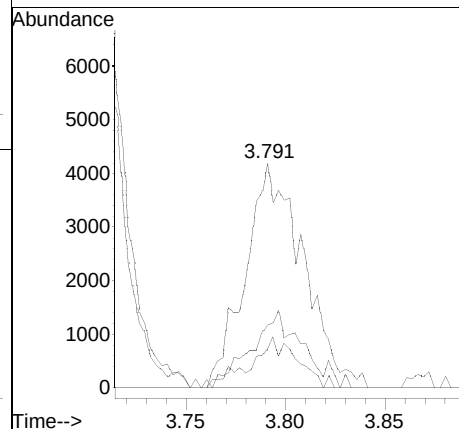
Tgt Ion:	73	Resp:	78029
Ion	Ratio	Lower	Upper
73	100		
57	29.0	21.4	44.4
43	27.4	8.1	16.9#
41	33.4	21.7	45.1

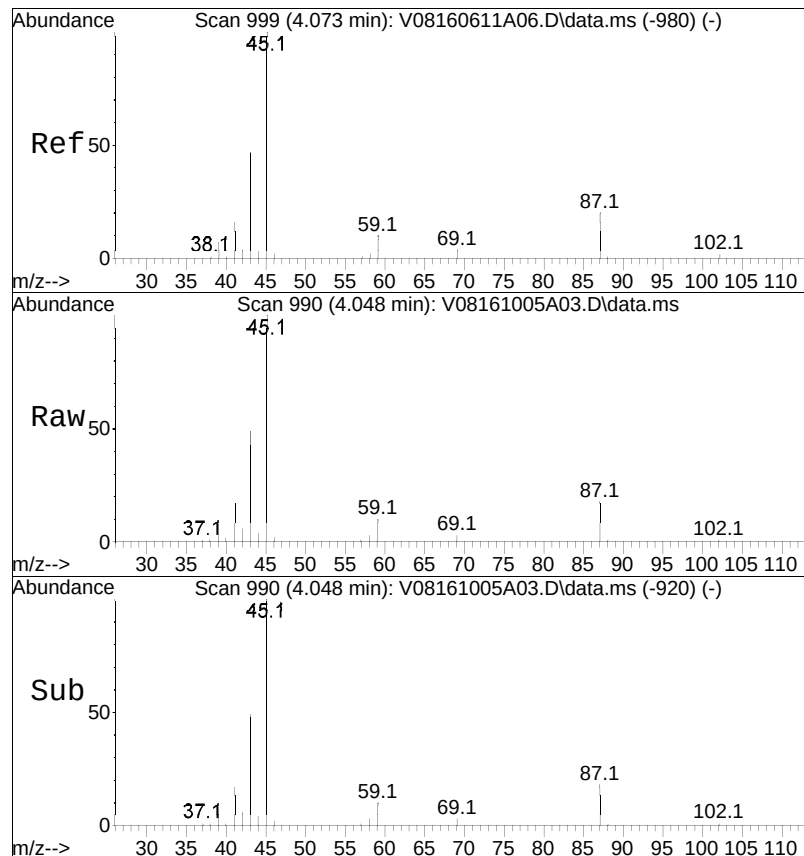




#21
 tert-Butyl alcohol
 Concen: 55.91 ug/L
 RT: 3.791 min Scan# 898
 Delta R.T. -0.019 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

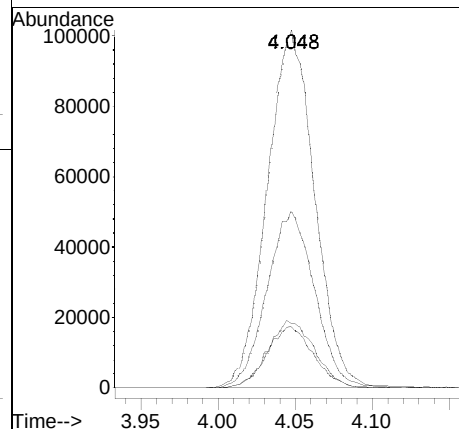
Tgt Ion:	59	Resp:	8418
Ion Ratio	Lower	Upper	
59	100		
41	29.0	22.3	46.3
43	14.9	0.0	0.0#

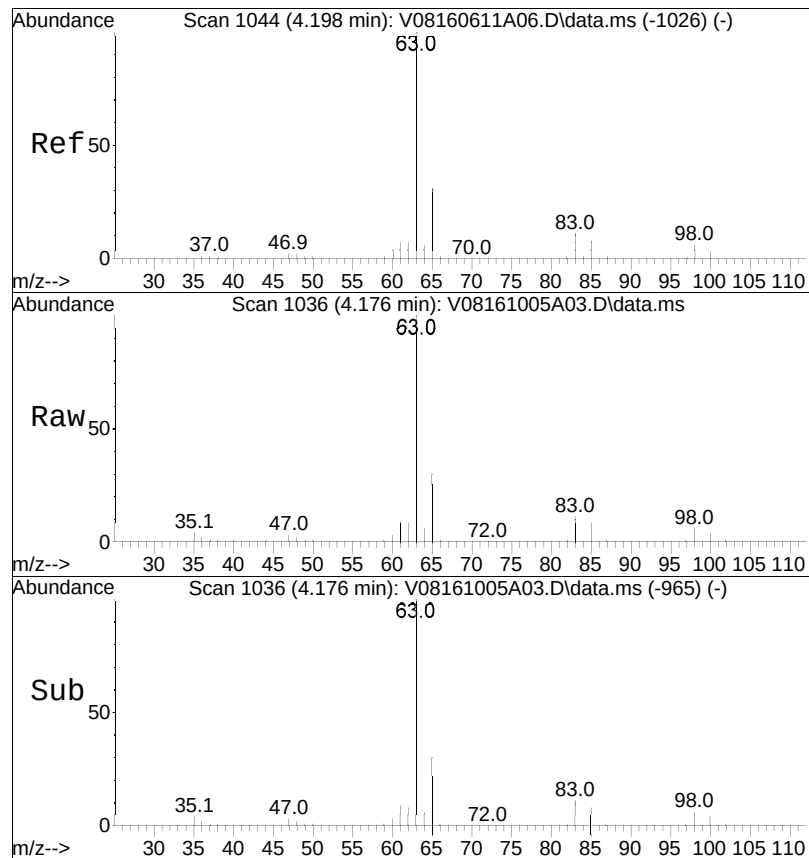




#22
 Diisopropyl ether
 Concen: 10.11 ug/L
 RT: 4.048 min Scan# 990
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

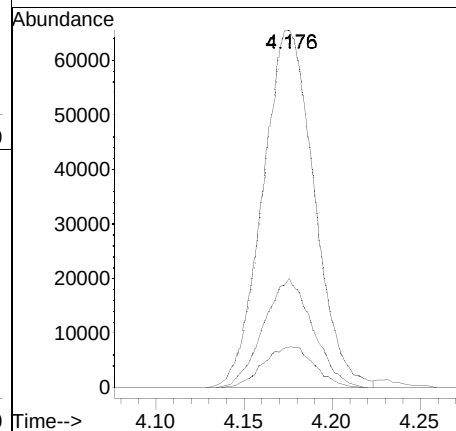
Tgt Ion:	45	Resp:	214253
Ion Ratio	Lower	Upper	
45	100		
43	50.0	29.1	60.5
87	18.7	11.7	24.3
41	17.0	9.9	20.5

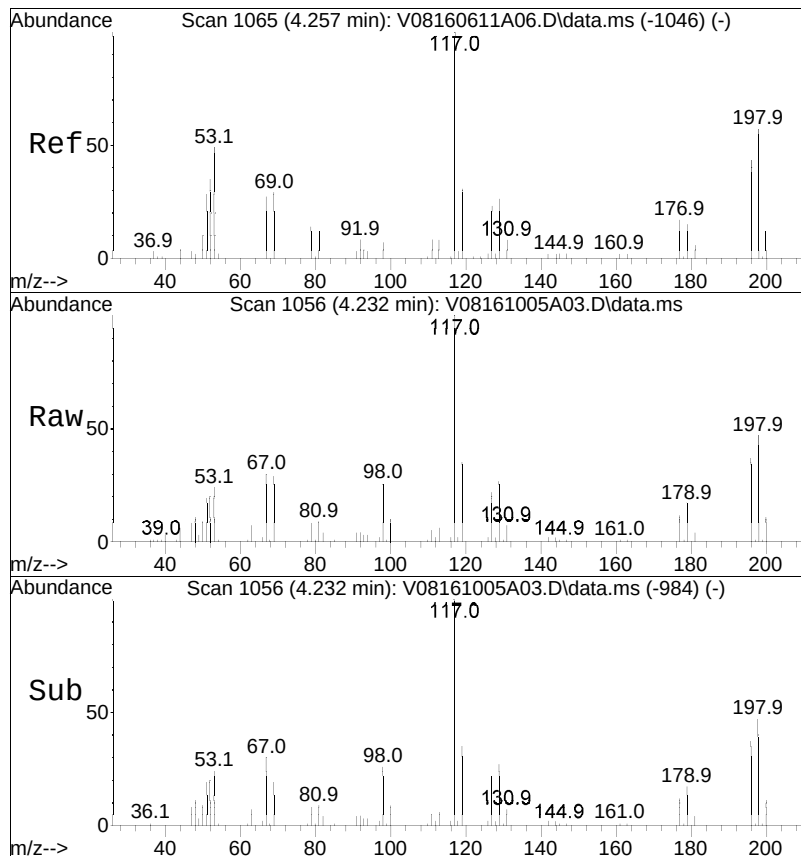




#23
 1,1-Dichloroethane
 Concen: 10.08 ug/L
 RT: 4.176 min Scan# 1036
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

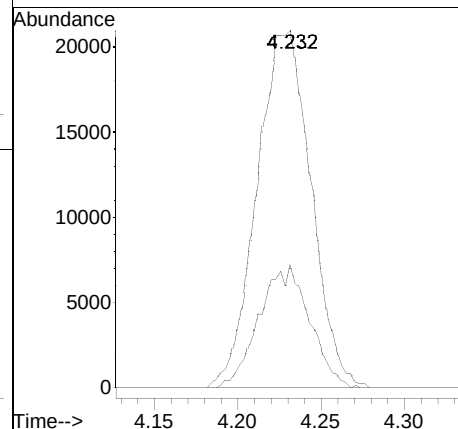
Tgt Ion:	63	Resp:	132026
Ion Ratio	Lower	Upper	
63	100		
65	29.5	8.1	48.1
83	11.6	0.0	30.5

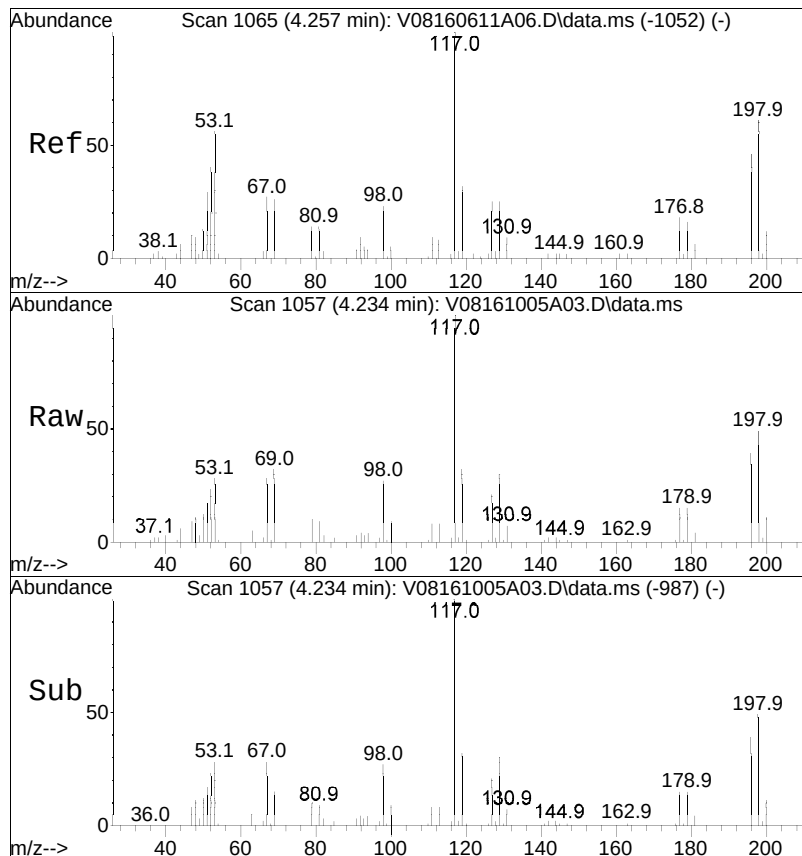




#24
 Halothane
 Concen: 10.86 ug/L
 RT: 4.232 min Scan# 1056
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

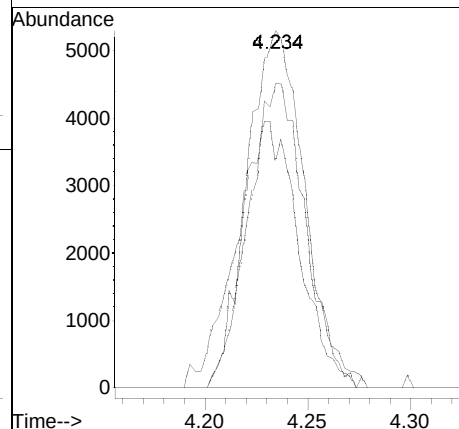
Tgt Ion:117 Resp: 46955
 Ion Ratio Lower Upper
 117 100
 119 17.8 9.9 20.5

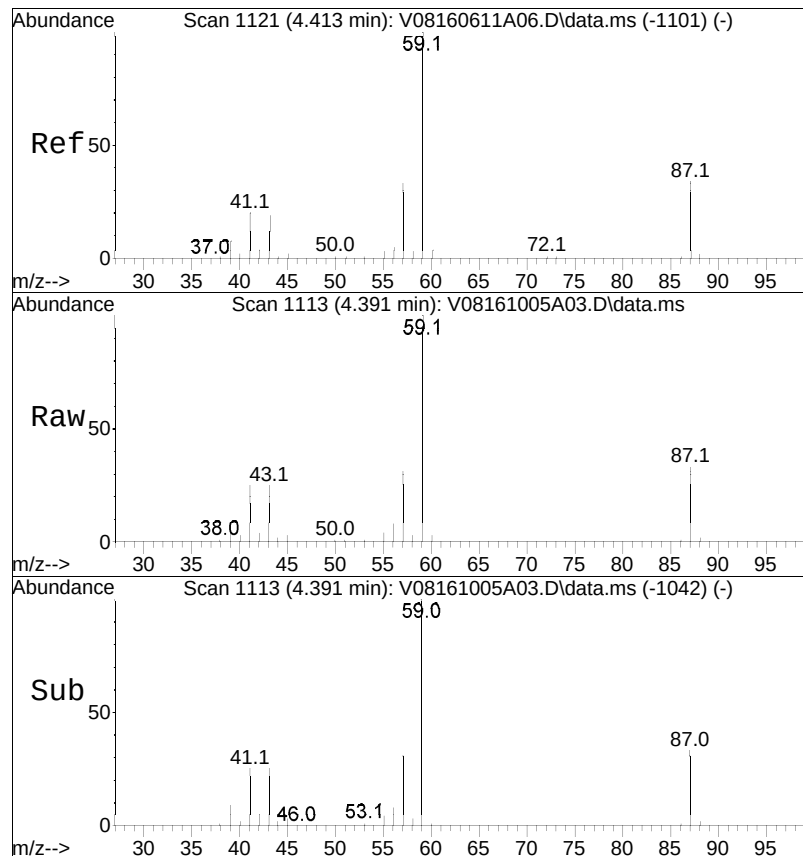




#25
 Acrylonitrile
 Concen: 9.57 ug/L
 RT: 4.234 min Scan# 1057
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

Tgt Ion:	53	Resp:	10209
Ion Ratio	Lower	Upper	
53	100		
52	84.4	69.4	104.0
51	81.8	47.5	71.3#





#26

Ethyl tert-butyl ether

Concen: 9.39 ug/L

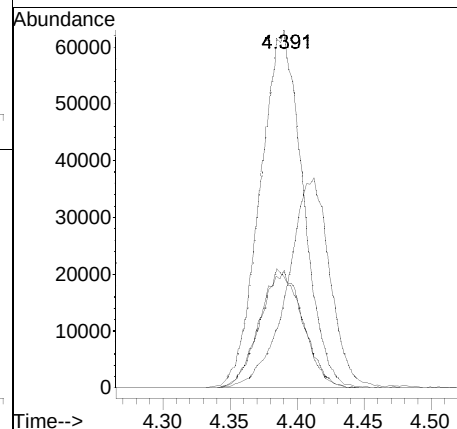
RT: 4.391 min Scan# 1113

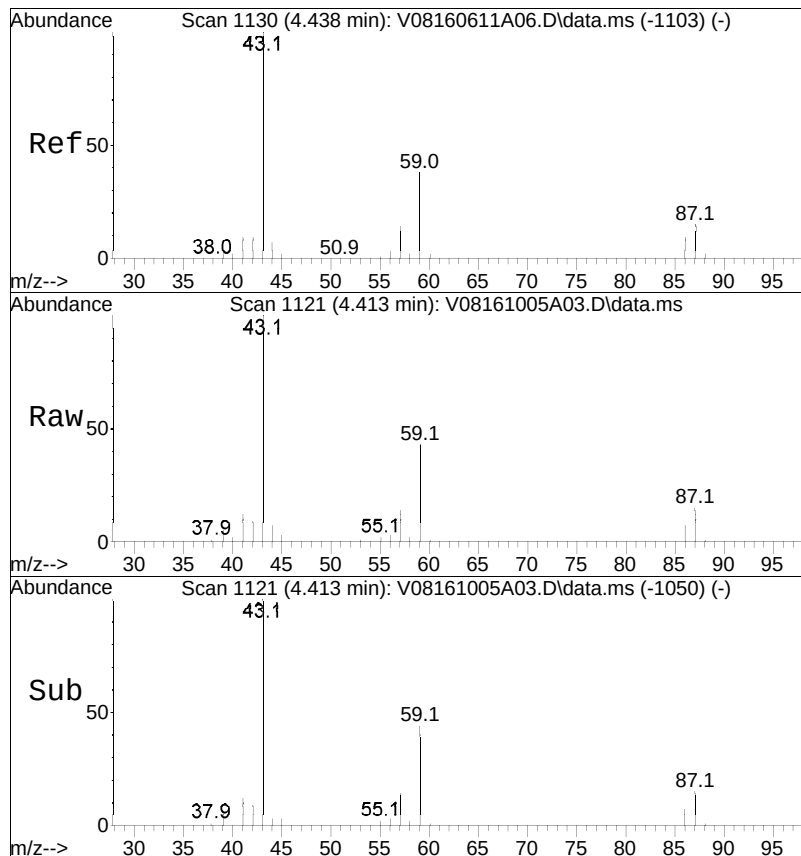
Delta R.T. -0.002 min

Lab File: V08161005A03.D

Acq: 5 Oct 2016 10:24 am

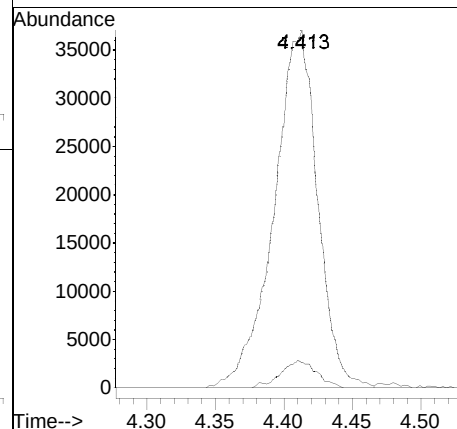
Tgt Ion:	59	Resp:	138902
Ion Ratio	Lower	Upper	
59	100		
87	33.5	20.9	43.5
57	33.4	21.5	44.7
43	58.6	45.8	95.2

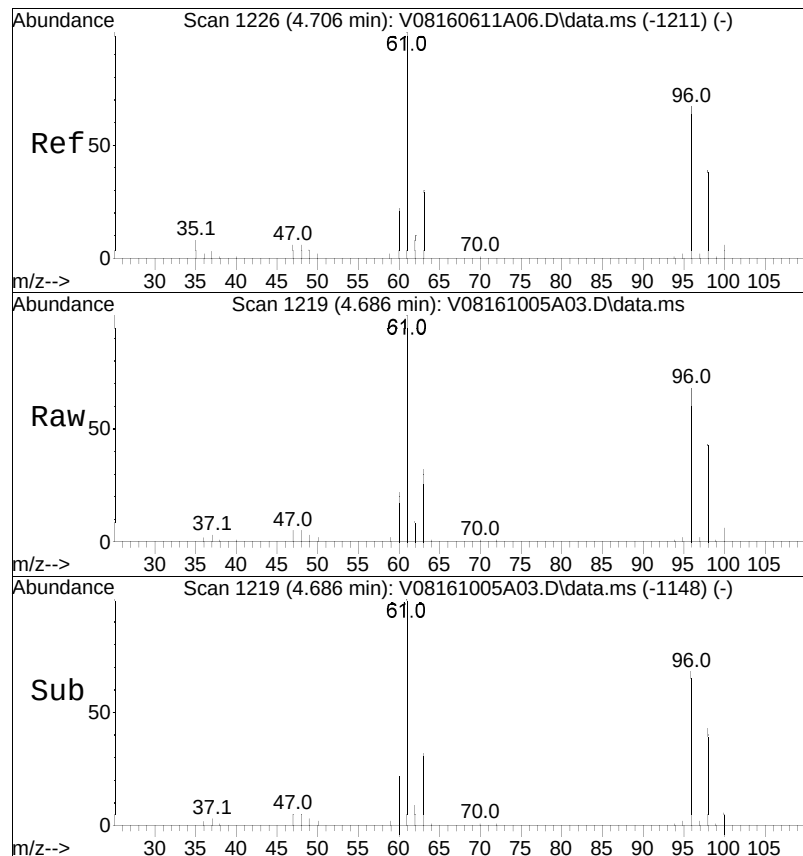




#27
 Vinyl acetate
 Concen: 10.22 ug/L
 RT: 4.413 min Scan# 1121
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

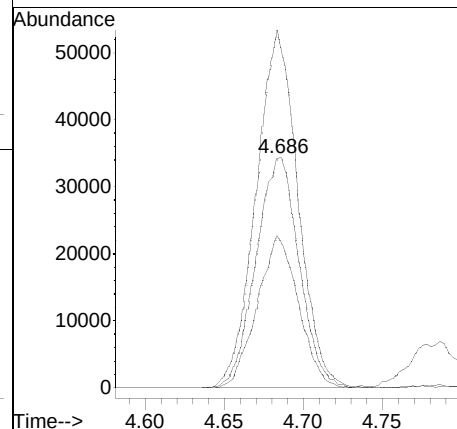
Tgt Ion: 43 Resp: 81444
 Ion Ratio Lower Upper
 43 100
 86 6.2 3.4 5.2#

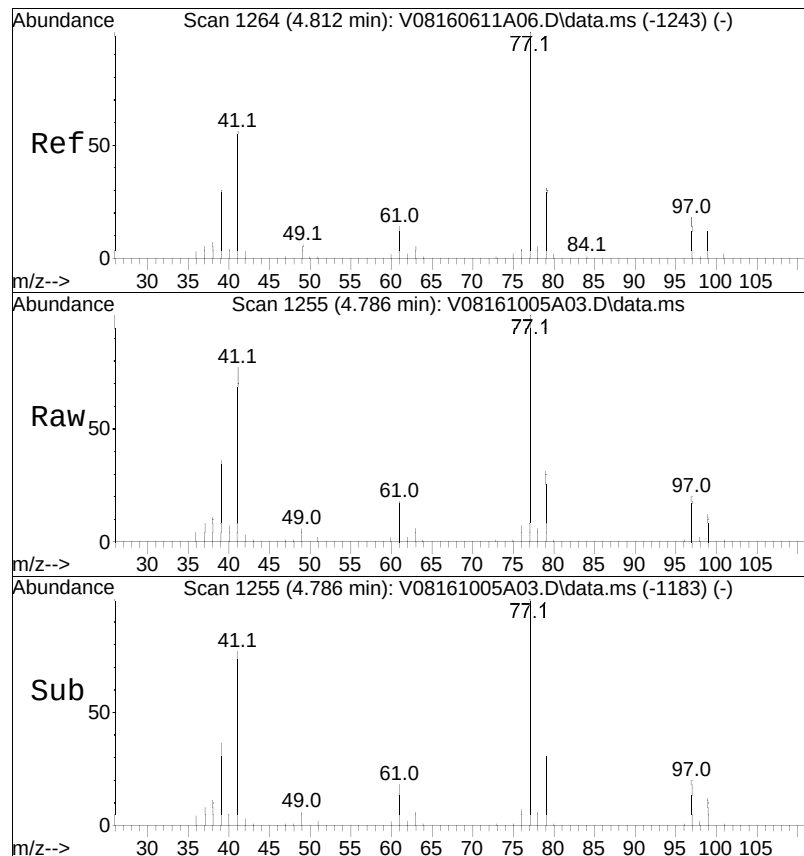




#28
 cis-1,2-Dichloroethene
 Concen: 10.37 ug/L
 RT: 4.686 min Scan# 1219
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

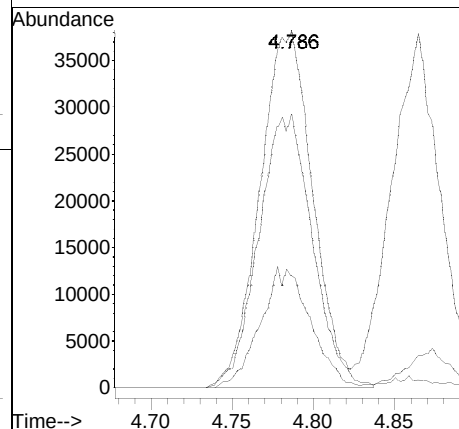
Tgt Ion:	96	Resp:	64887
Ion Ratio	Lower	Upper	
96	100		
61	149.9	127.6	191.4
98	63.1	50.0	75.0

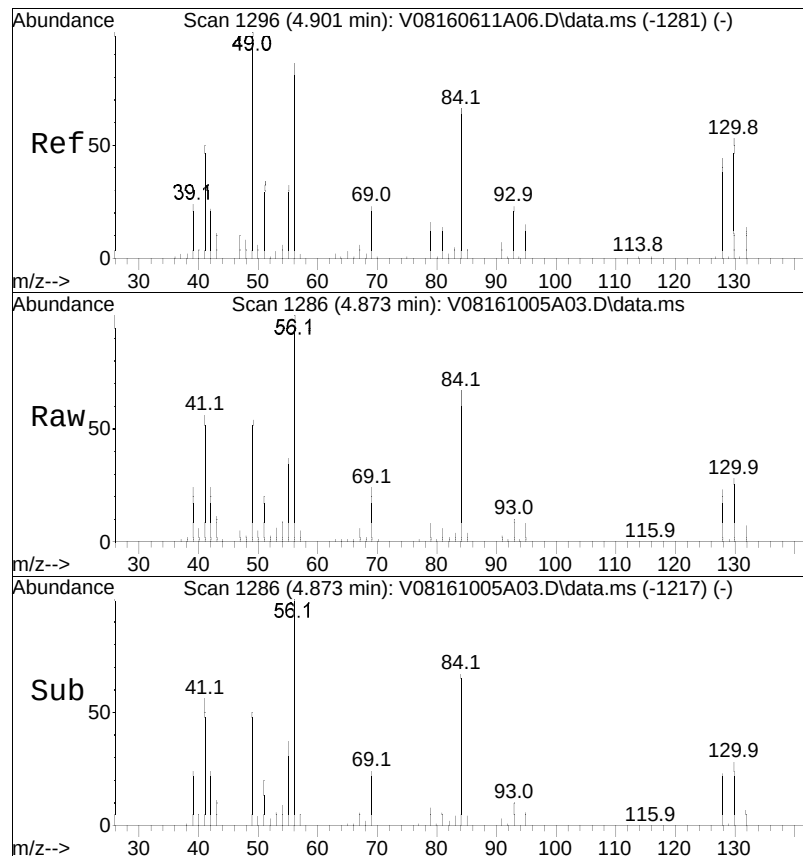




#29
 2,2-Dichloropropane
 Concen: 11.12 ug/L
 RT: 4.786 min Scan# 1255
 Delta R.T. 0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

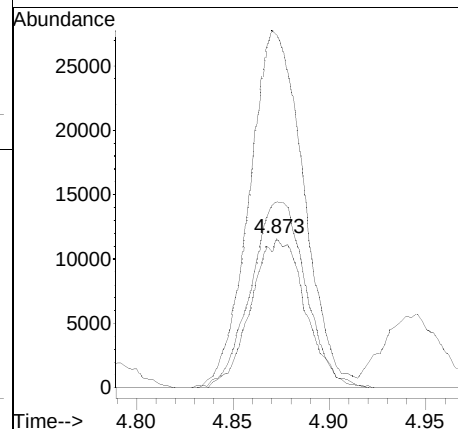
Tgt Ion:	77	Resp:	86516
Ion Ratio	Lower	Upper	
77	100		
41	77.1	52.5	108.9
79	15.0	21.1	43.7#

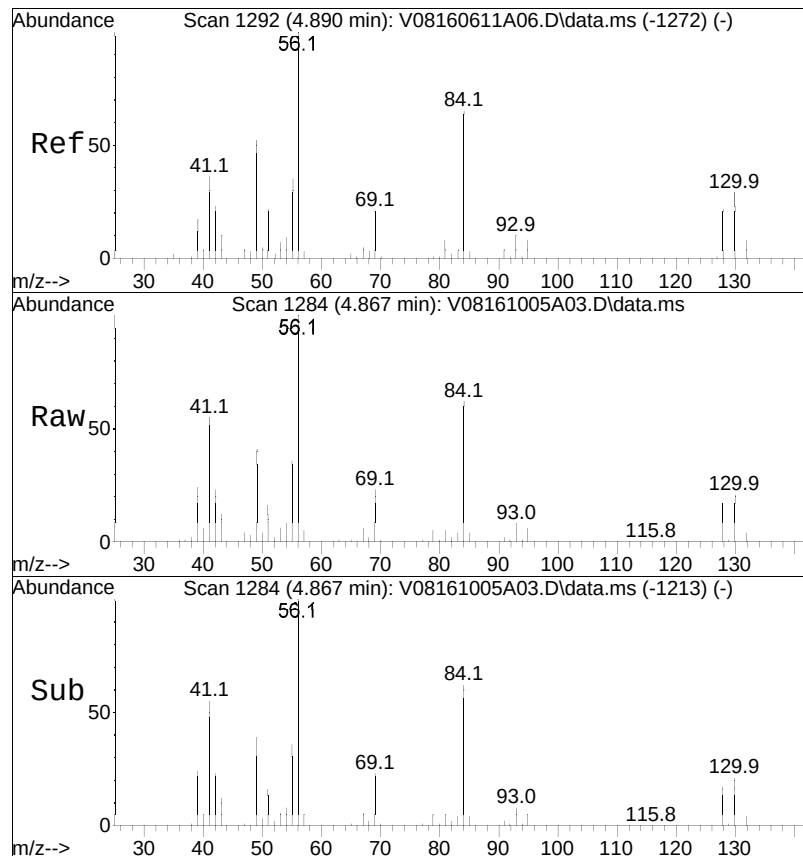




#30
 Bromochloromethane
 Concen: 9.86 ug/L
 RT: 4.873 min Scan# 1286
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

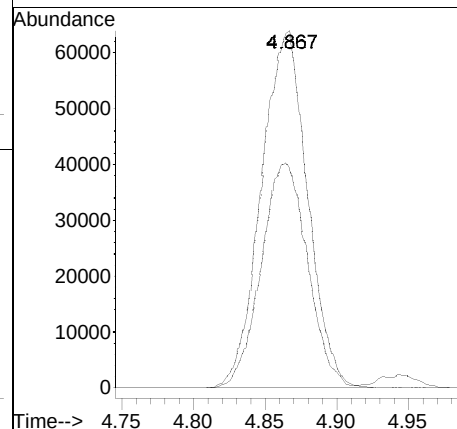
Tgt Ion:	128	Resp:	22745
Ion Ratio	Lower	Upper	
128	100		
49	237.9	224.2	336.4
130	125.7	105.3	157.9

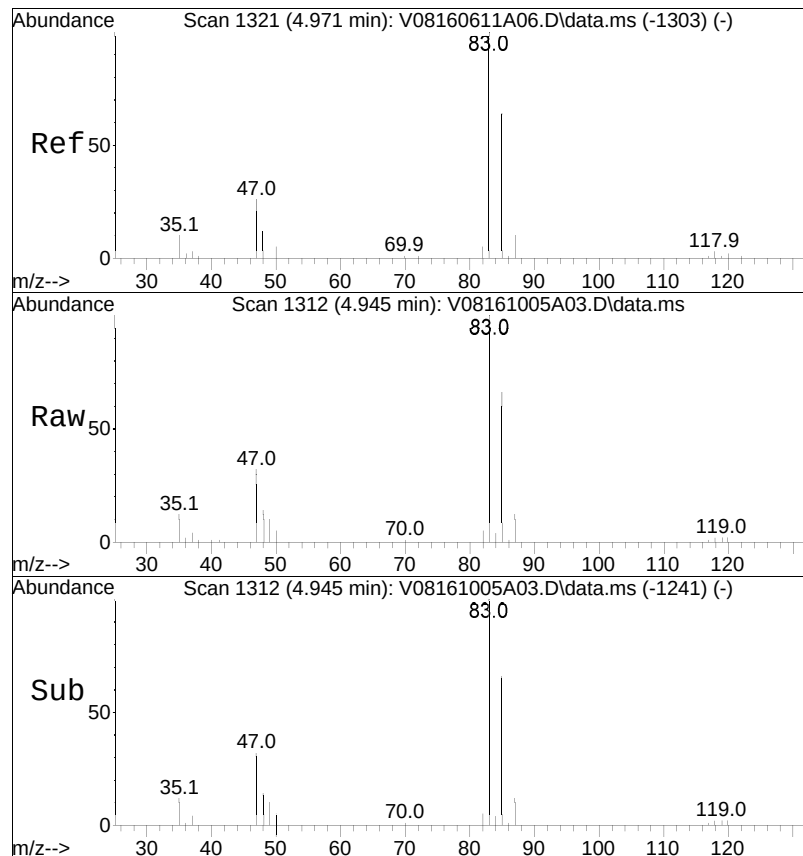




#31
Cyclohexane
Concen: 9.94 ug/L
RT: 4.867 min Scan# 1284
Delta R.T. -0.003 min
Lab File: V08161005A03.D
Acq: 5 Oct 2016 10:24 am

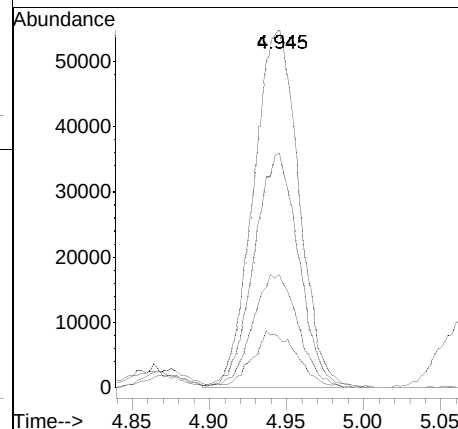
Tgt	Ion	Resp	Lower	Upper
56	100	142386		
84	63.7	37.2	77.4	

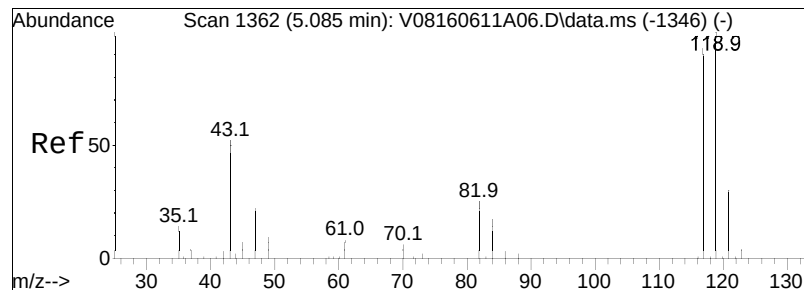




#32
 Chloroform
 Concen: 10.66 ug/L
 RT: 4.945 min Scan# 1312
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

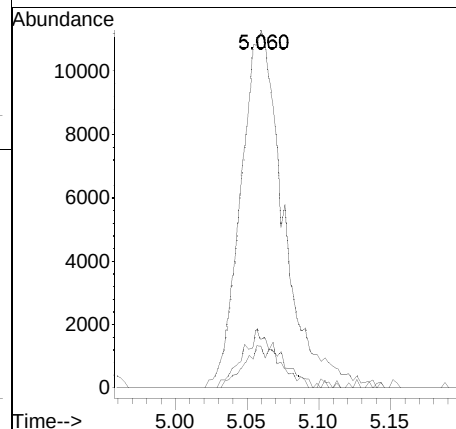
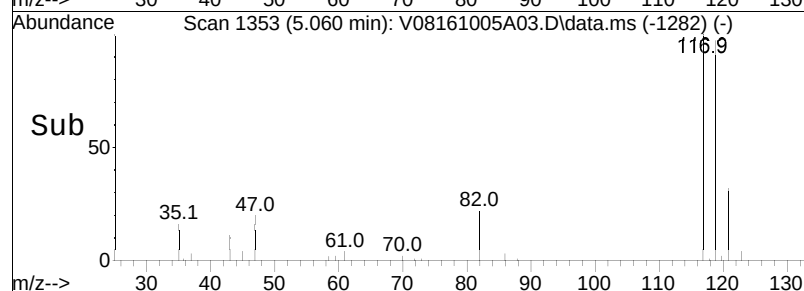
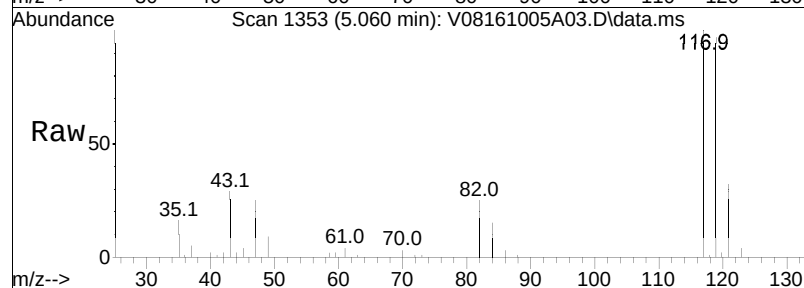
Tgt Ion:	83	Resp:	111760
Ion Ratio	Lower	Upper	
83	100		
85	64.3	42.7	88.7
47	31.7	20.9	43.5
48	15.4	10.5	21.7

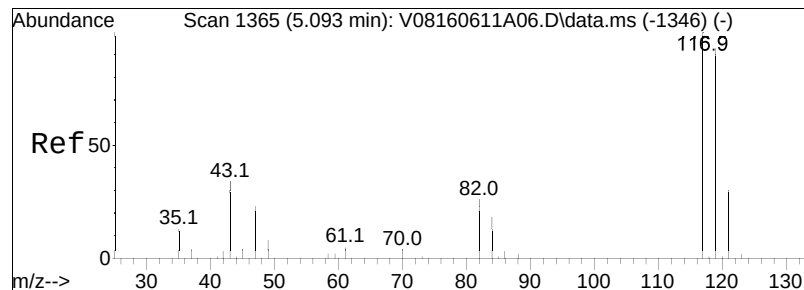




#33
 Ethyl acetate
 Concen: 9.17 ug/L
 RT: 5.060 min Scan# 1353
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

Tgt Ion	Ratio	Lower	Upper
43	100		
45	13.3	10.5	15.7
70	5.9	3.7	5.5#





#34

Carbon tetrachloride

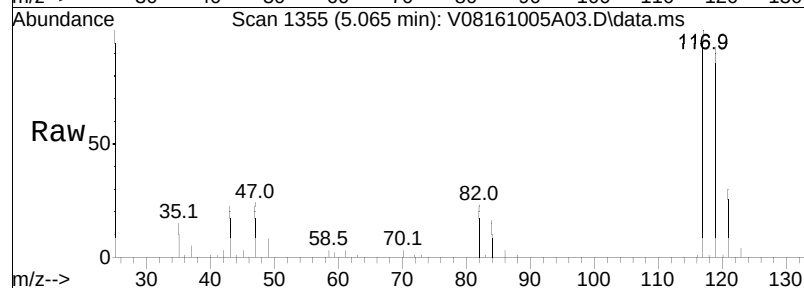
Concen: 10.34 ug/L

RT: 5.065 min Scan# 1355

Delta R.T. -0.006 min

Lab File: V08161005A03.D

Acq: 5 Oct 2016 10:24 am



Tgt Ion:117 Resp: 94981

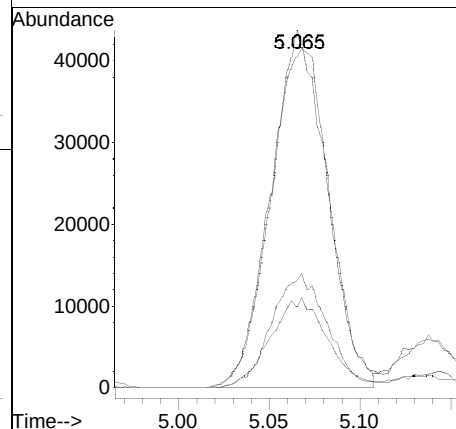
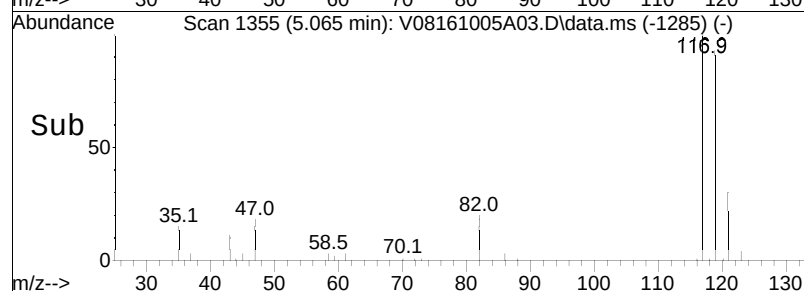
Ion Ratio Lower Upper

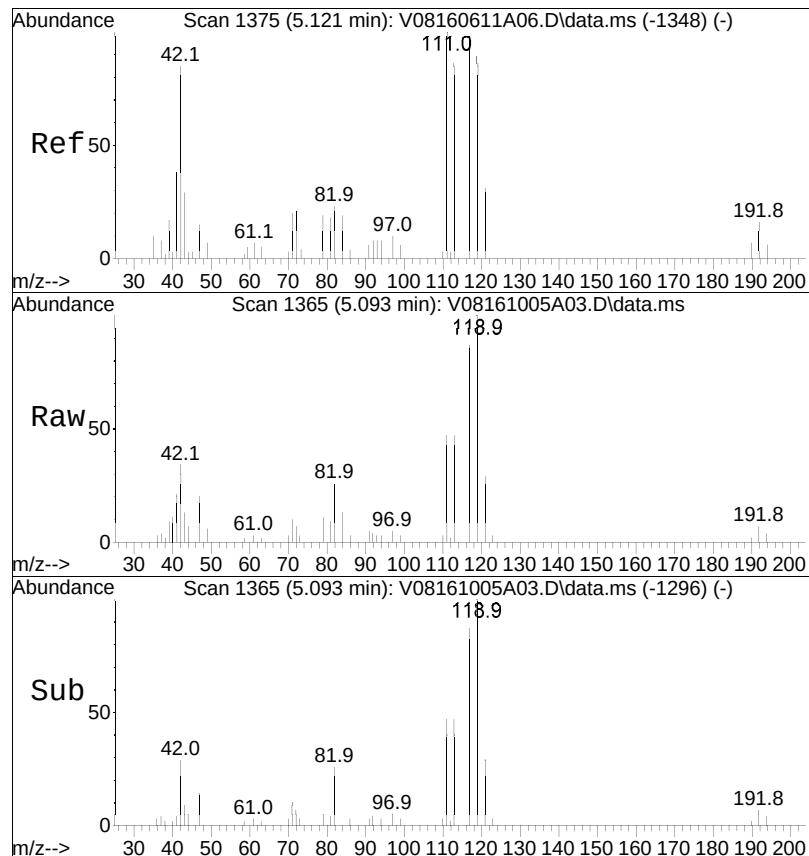
117 100

119 97.6 62.9 130.5

121 31.3 20.0 41.4

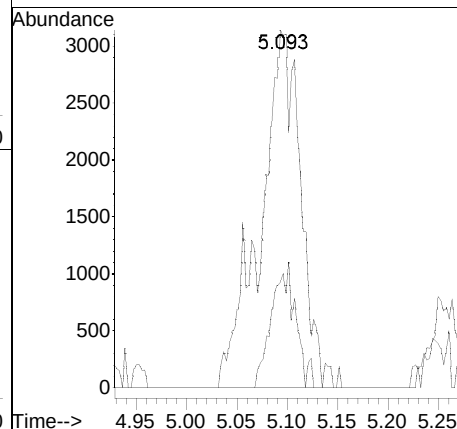
82 25.5 16.7 34.7

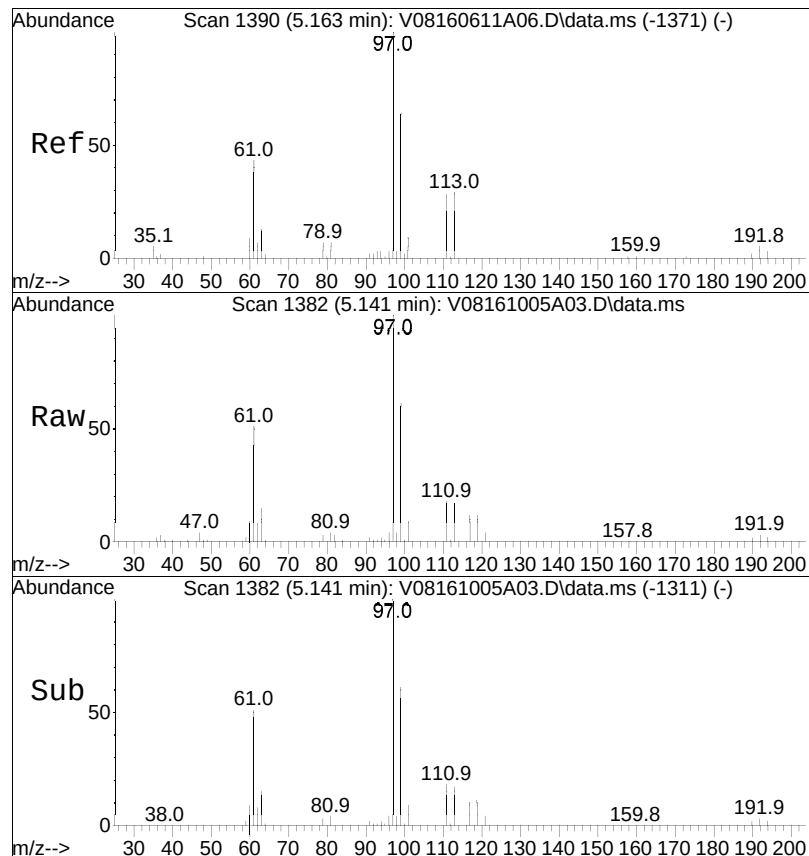




#35
Tetrahydrofuran
Concen: 9.36 ug/L M1
RT: 5.093 min Scan# 1365
Delta R.T. -0.009 min
Lab File: V08161005A03.D
Acq: 5 Oct 2016 10:24 am

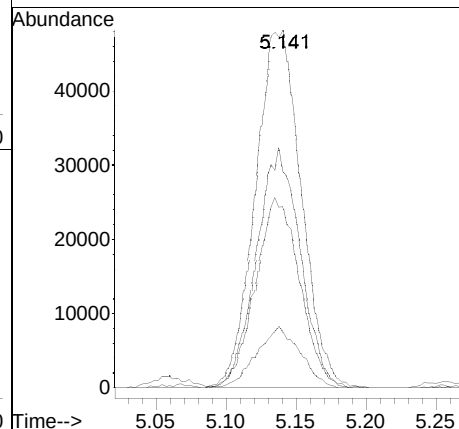
Tgt Ion	Ratio	Lower	Upper
42	100		
71	20.2	17.4	26.2

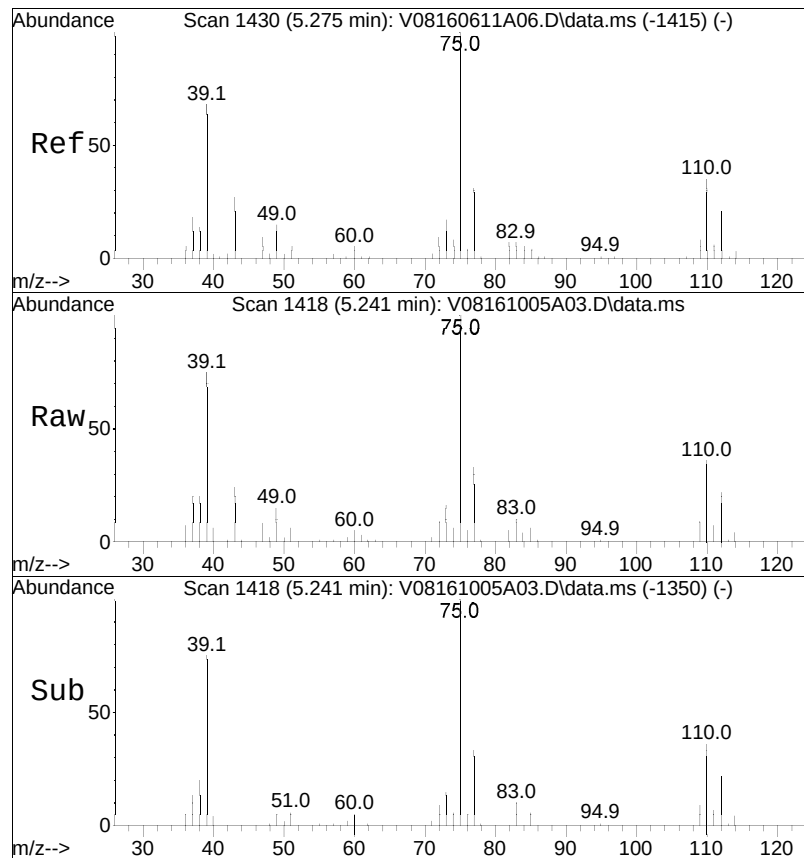




#37
 1,1,1-Trichloroethane
 Concen: 10.87 ug/L
 RT: 5.141 min Scan# 1382
 Delta R.T. -0.002 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

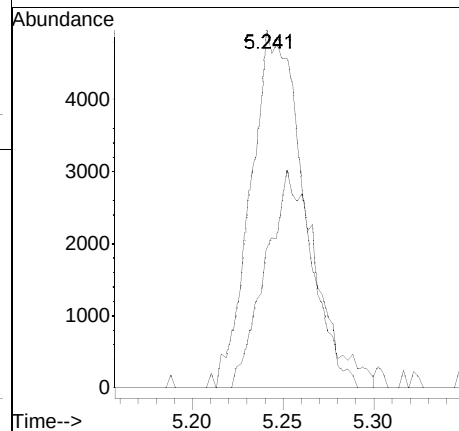
Tgt Ion:	97	Resp:	108777
Ion Ratio	Lower	Upper	
97	100		
99	64.0	40.3	83.7
61	51.3	34.3	71.1
63	16.3	6.0	12.4#

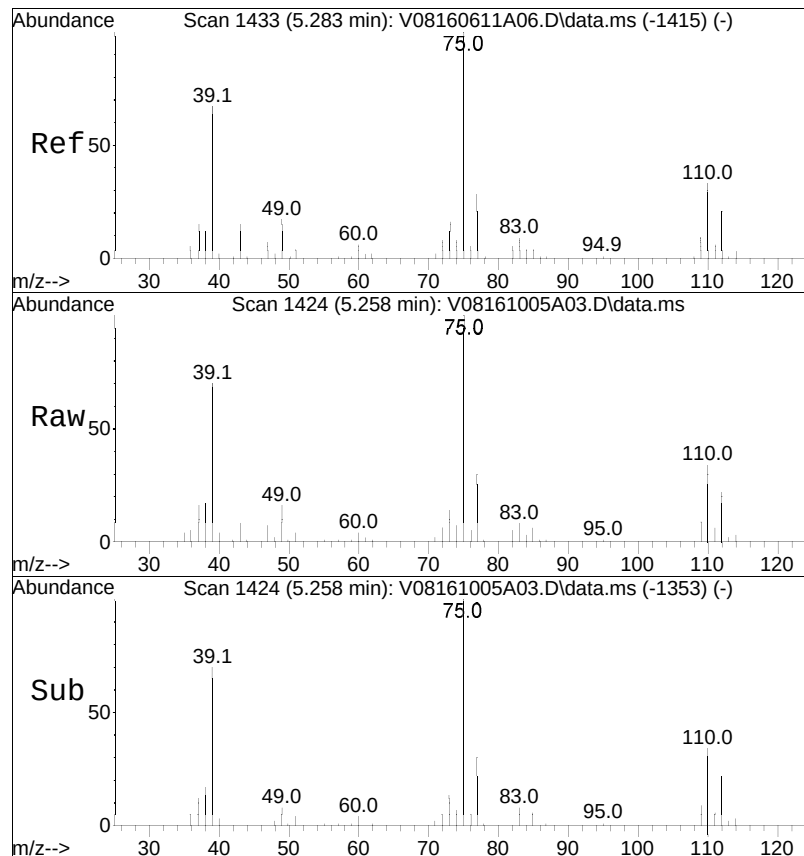




#39
 2-Butanone
 Concen: 10.17 ug/L
 RT: 5.241 min Scan# 1418
 Delta R.T. -0.011 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

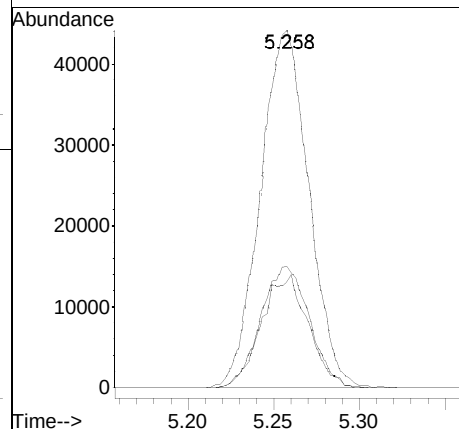
Tgt	Ion	Resp	Lower	Upper
43	100			
72	54.4	30.0	45.0#	

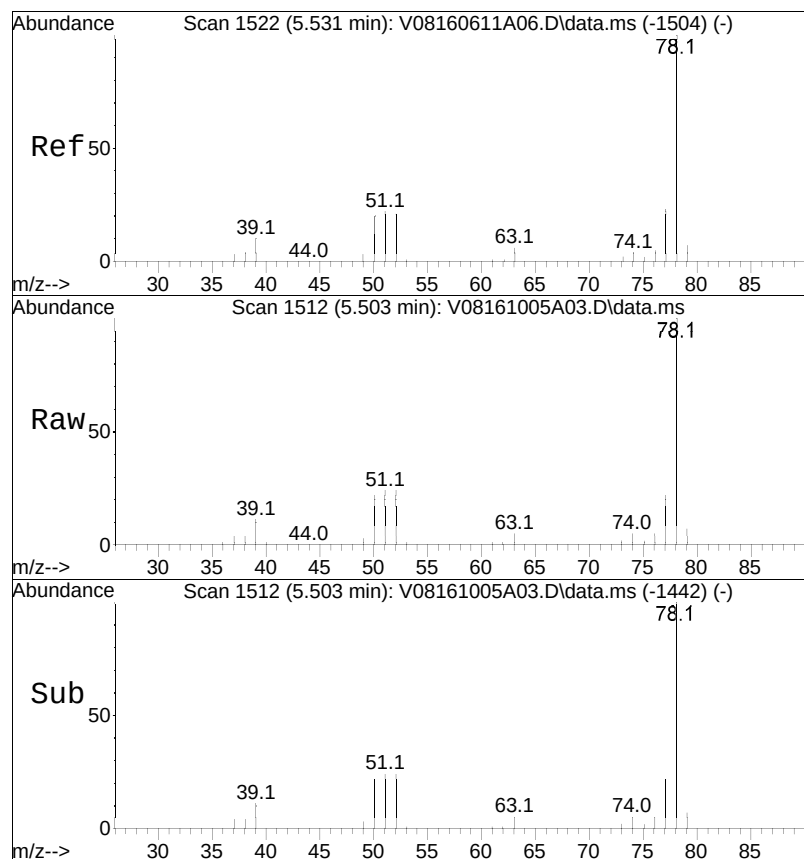




#40
 1,1-Dichloropropene
 Concen: 10.26 ug/L
 RT: 5.258 min Scan# 1424
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

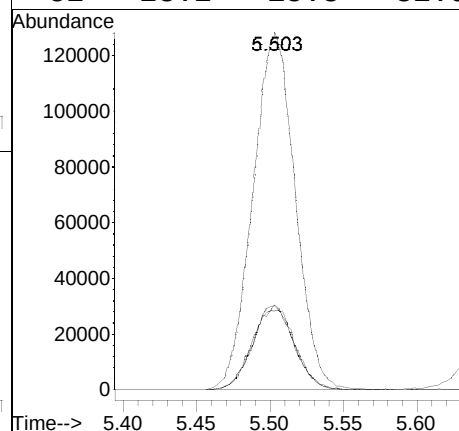
Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.3	22.9	47.7
77	30.6	20.3	42.3

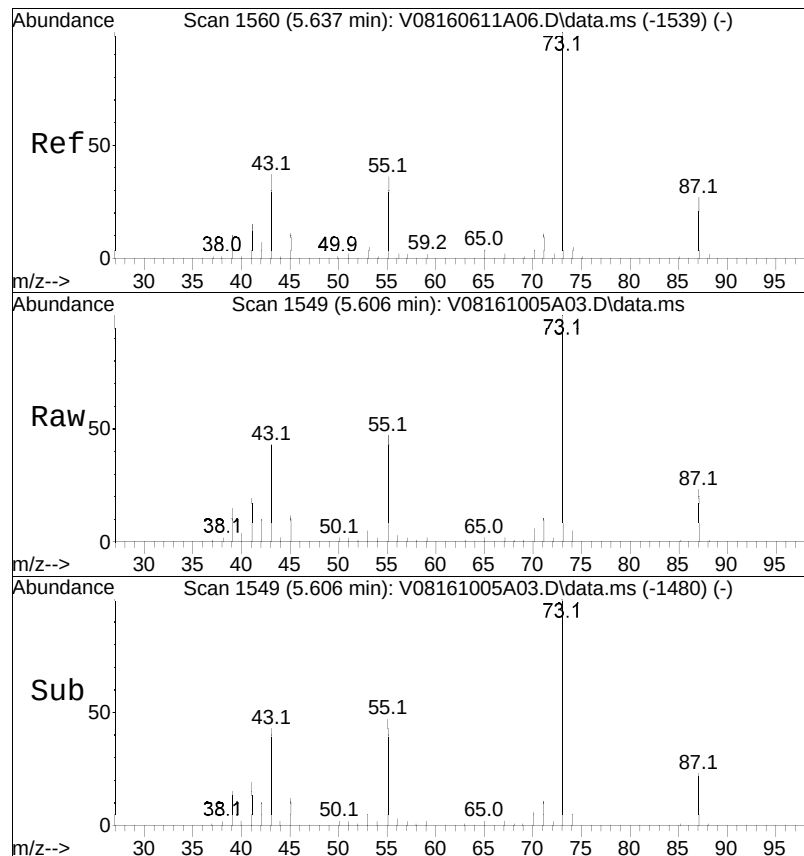




#41
Benzene
Concen: 10.33 ug/L
RT: 5.503 min Scan# 1512
Delta R.T. -0.006 min
Lab File: V08161005A03.D
Acq: 5 Oct 2016 10:24 am

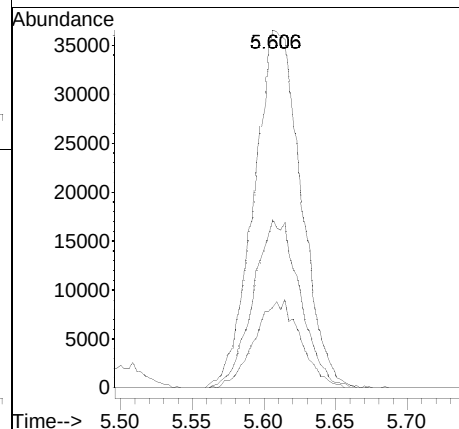
Tgt	Ion: 78	Resp:	254397
Ion	Ratio	Lower	Upper
78	100		
77	23.1	14.9	30.9
51	23.6	15.7	32.7
52	23.2	15.8	32.8

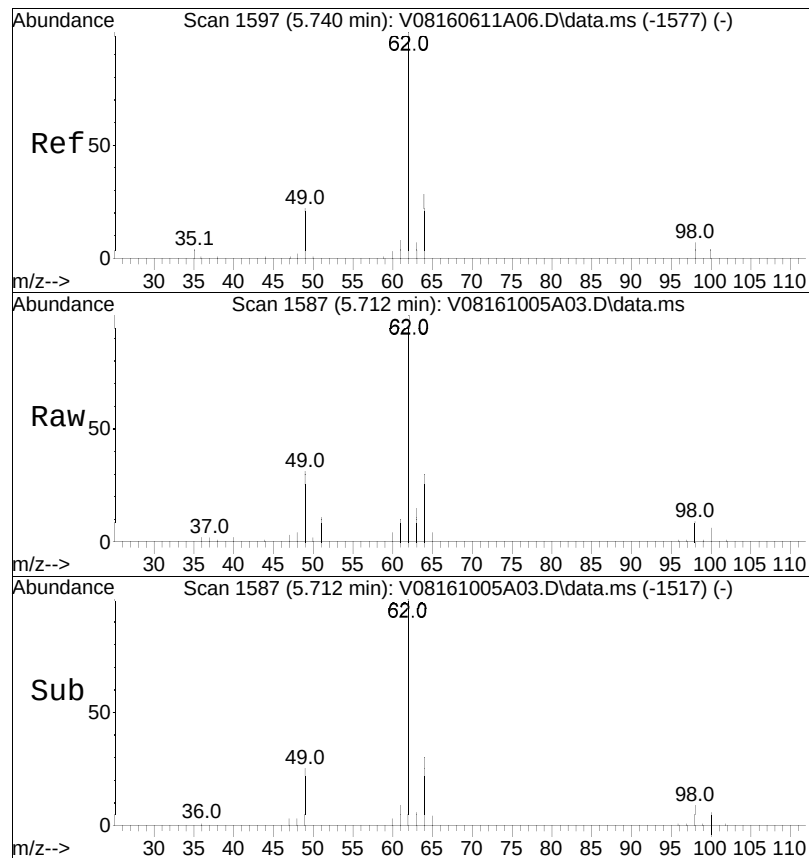




#42
 tert-Amyl methyl ether
 Concen: 9.23 ug/L
 RT: 5.606 min Scan# 1549
 Delta R.T. -0.009 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

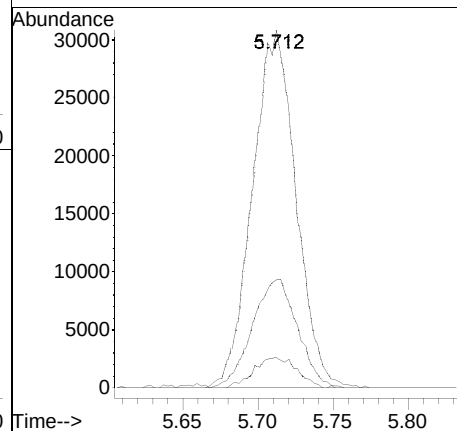
Tgt Ion:	73	Resp:	83222
Ion Ratio	Lower	Upper	
73	100		
55	46.5	32.8	68.0
87	23.9	9.4	19.4#

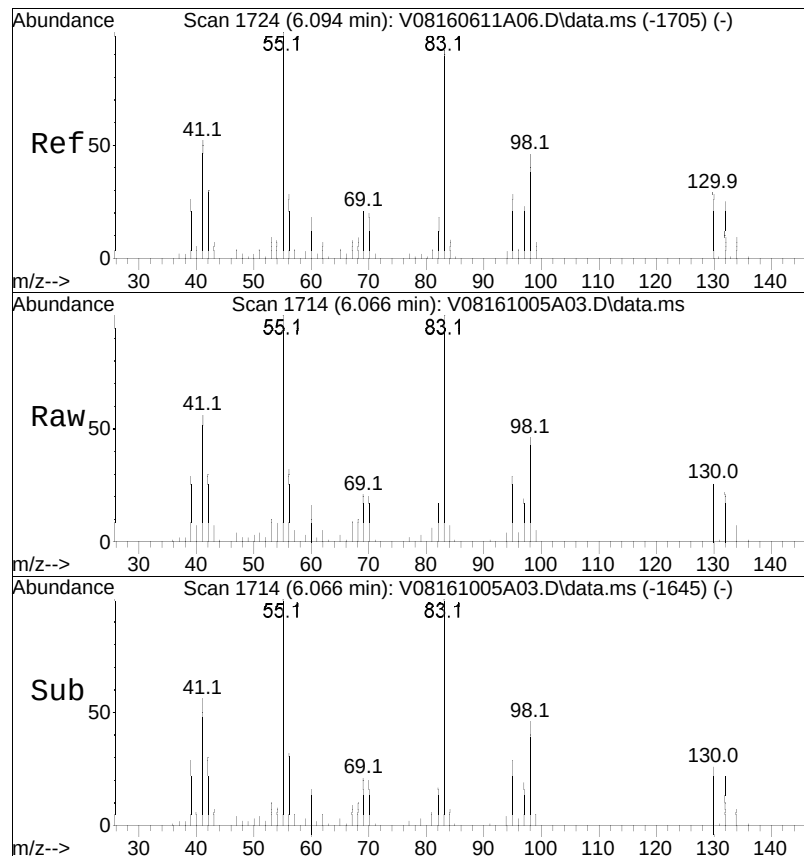




#44
 1,2-Dichloroethane
 Concen: 9.68 ug/L
 RT: 5.712 min Scan# 1587
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

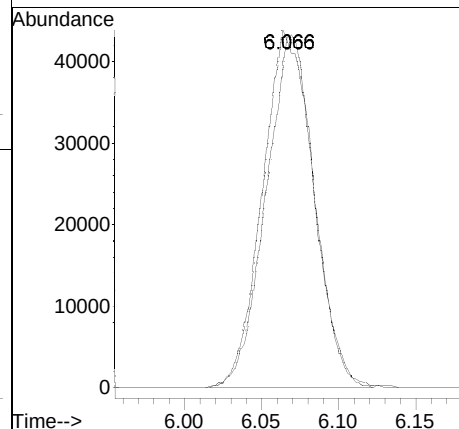
Tgt Ion:	62	Resp:	61372
Ion Ratio	Lower	Upper	
62	100		
64	31.6	10.9	50.9
98	8.5	0.0	23.4

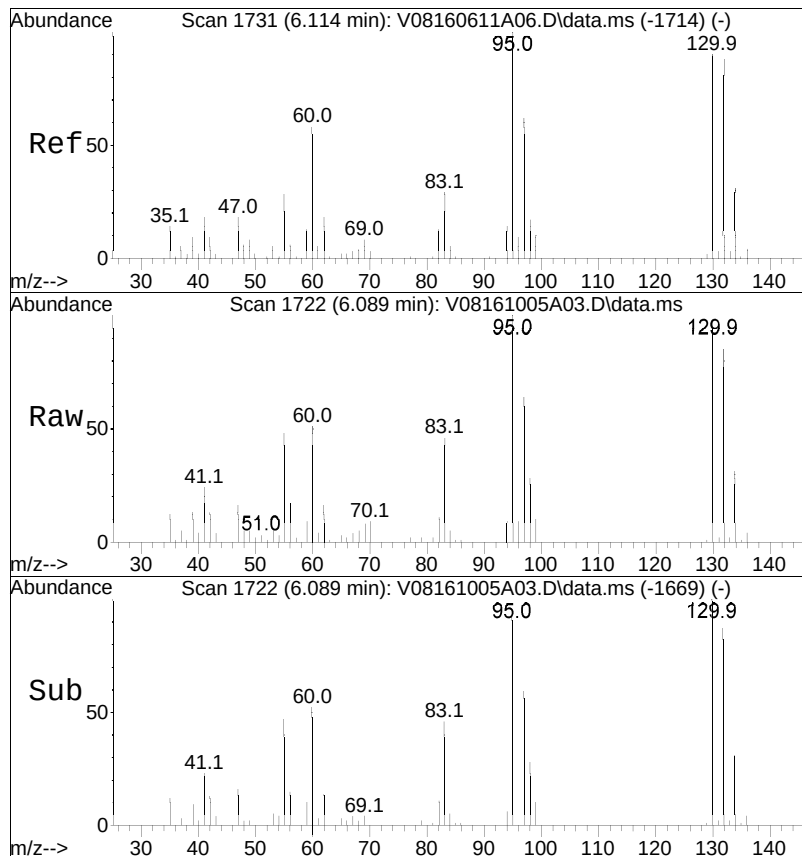




#47
Methyl cyclohexane
Concen: 9.35 ug/L
RT: 6.066 min Scan# 1714
Delta R.T. -0.009 min
Lab File: V08161005A03.D
Acq: 5 Oct 2016 10:24 am

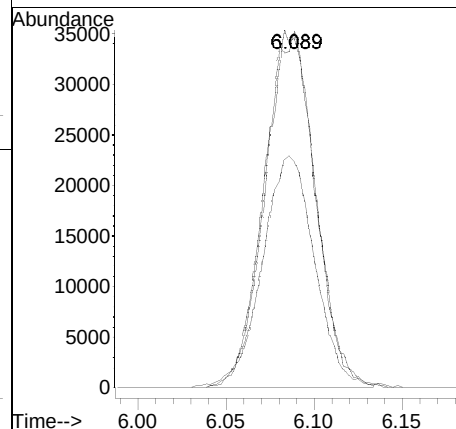
Tgt Ion	83	Resp	92708
Ion Ratio	Lower	Upper	
83	100		
55	109.8	91.3	136.9

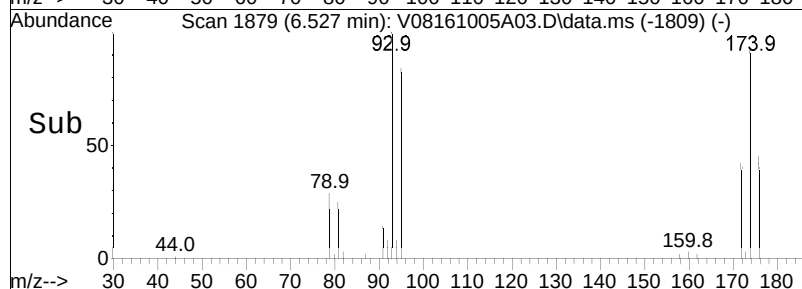
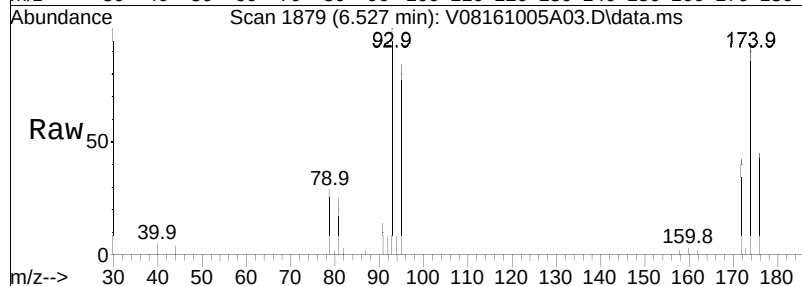
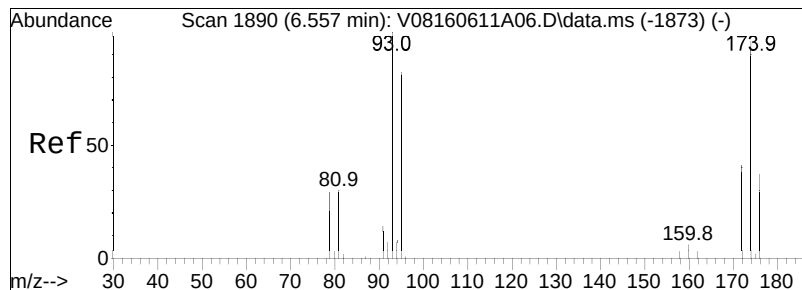




#48
 Trichloroethene
 Concen: 10.69 ug/L
 RT: 6.089 min Scan# 1722
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

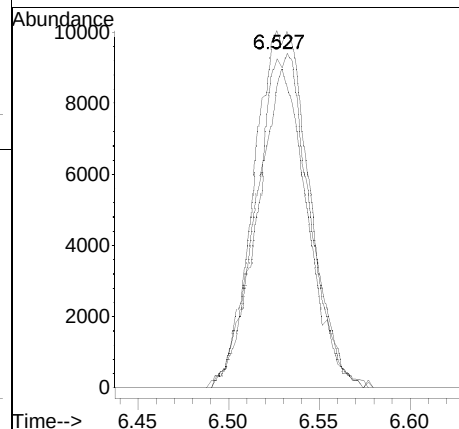
Tgt Ion	Ratio	Lower	Upper
95	100		
97	66.8	55.1	82.7
130	99.0	77.3	115.9

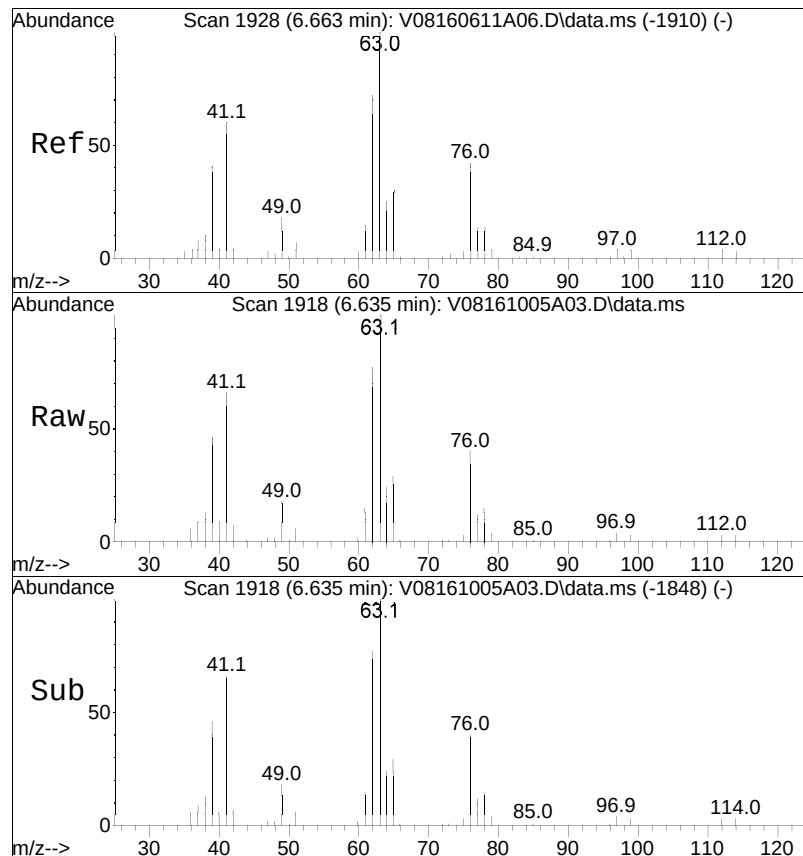




#50
 Dibromomethane
 Concen: 9.85 ug/L
 RT: 6.527 min Scan# 1879
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

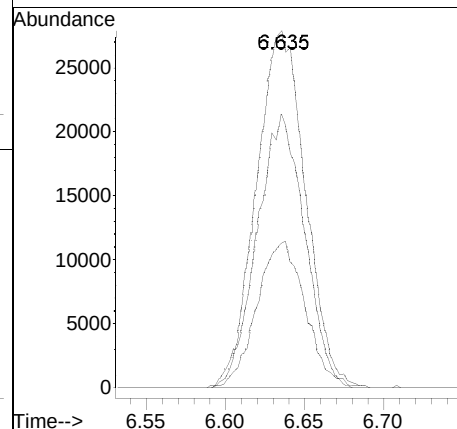
Tgt Ion:	93	Resp:	21261
Ion Ratio	Lower	Upper	
93	100		
95	82.6	66.7	100.1
174	88.8	67.9	101.9

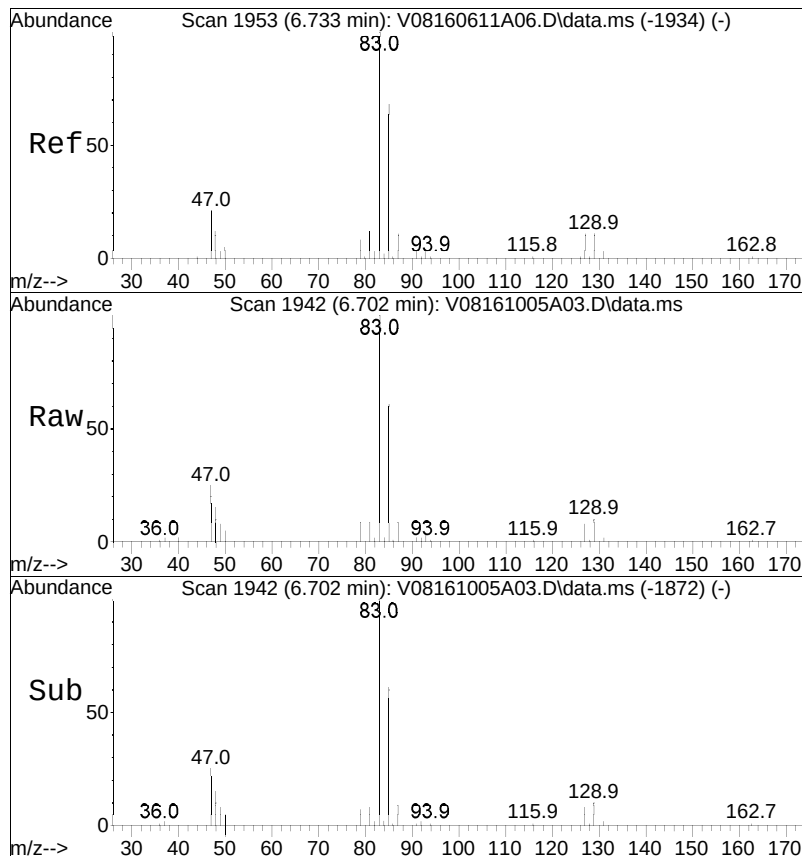




#51
 1,2-Dichloropropane
 Concen: 9.51 ug/L
 RT: 6.635 min Scan# 1918
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

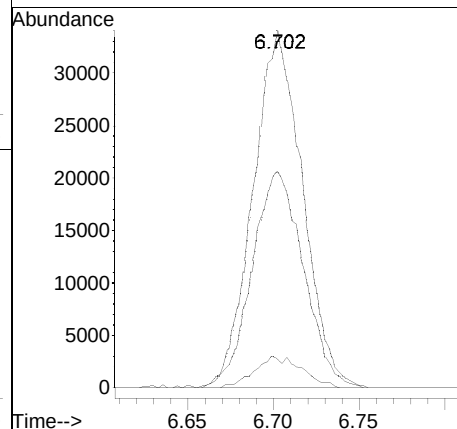
Tgt	Ion: 63	Resp:	60162
Ion	Ratio	Lower	Upper
63	100		
62	74.0	57.8	86.6
76	40.1	28.0	42.0

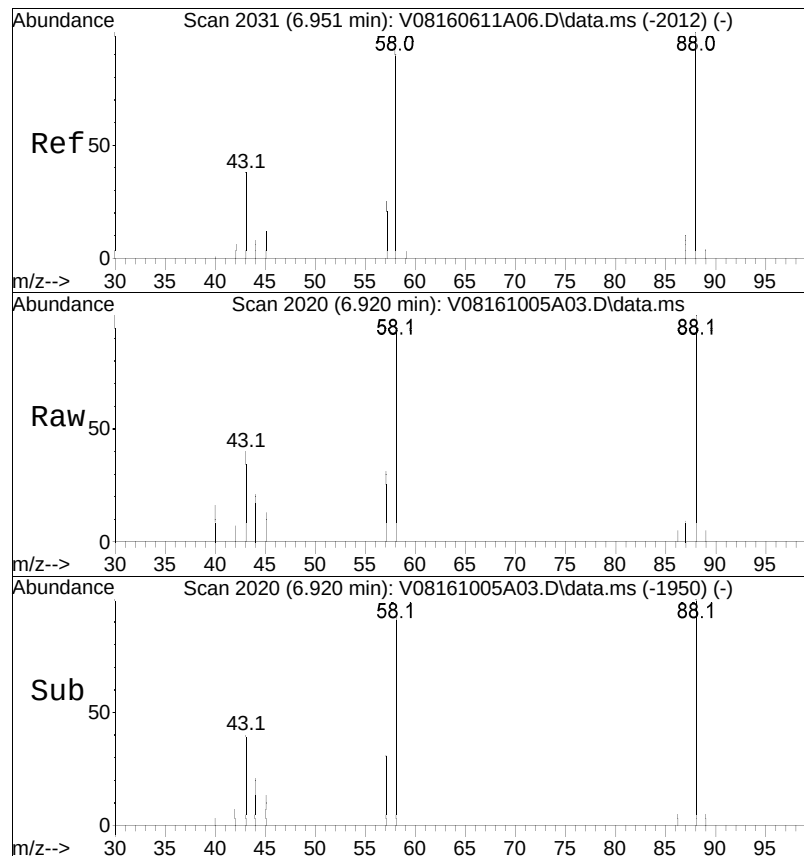




#54
 Bromodichloromethane
 Concen: 10.15 ug/L
 RT: 6.702 min Scan# 1942
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

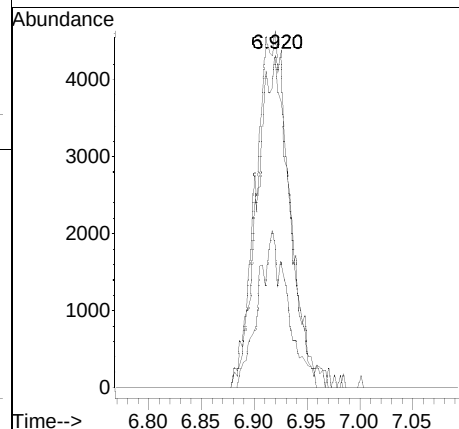
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	67915		
85	63.0		51.5	77.3
127	8.4		4.2	6.4#

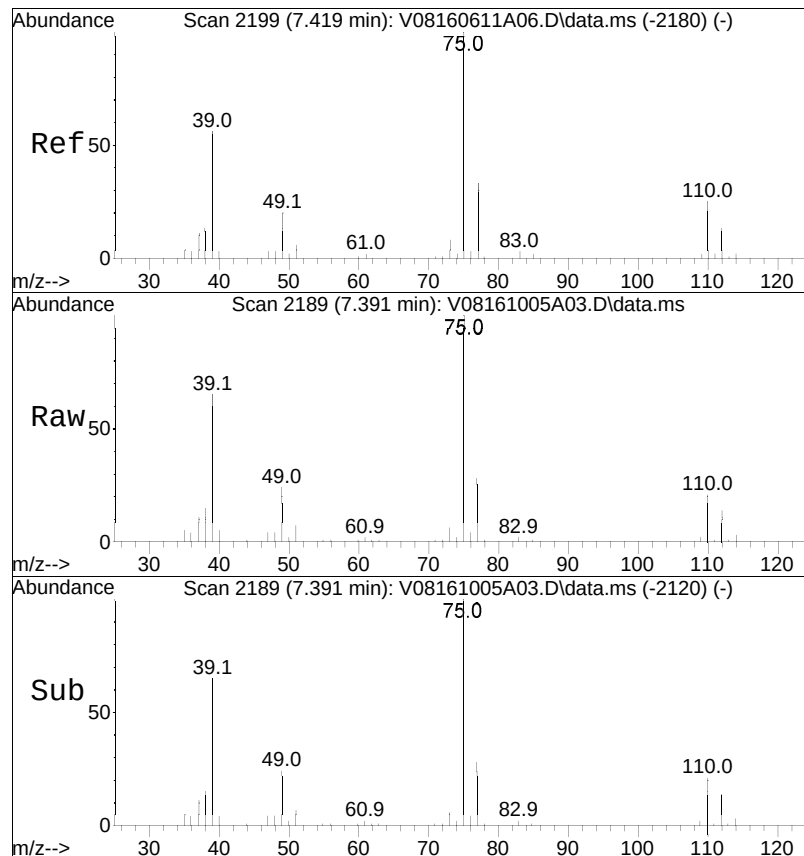




#57
 1,4-Dioxane
 Concen: 497.29 ug/L M1
 RT: 6.920 min Scan# 2020
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

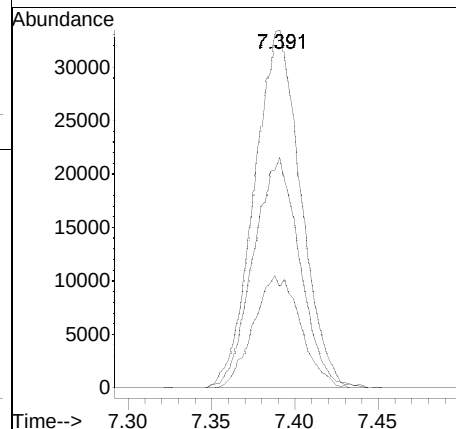
Tgt Ion:	88	Resp:	10167
Ion Ratio	Lower	Upper	
88	100		
58	89.9	70.8	106.2
43	38.7	29.3	43.9

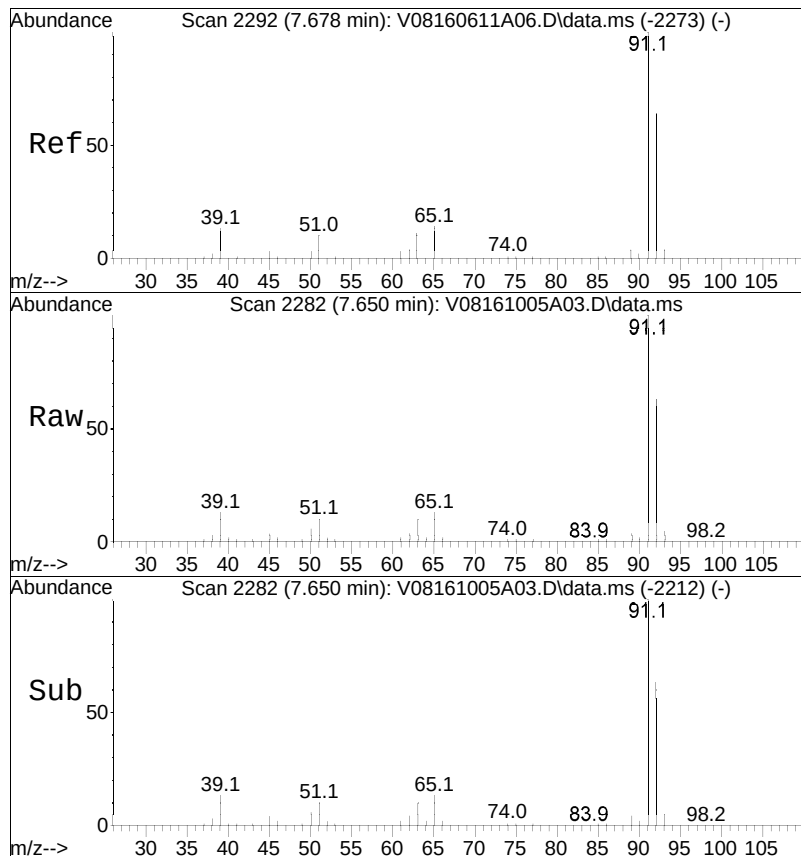




#58
 cis-1,3-Dichloropropene
 Concen: 8.96 ug/L
 RT: 7.391 min Scan# 2189
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

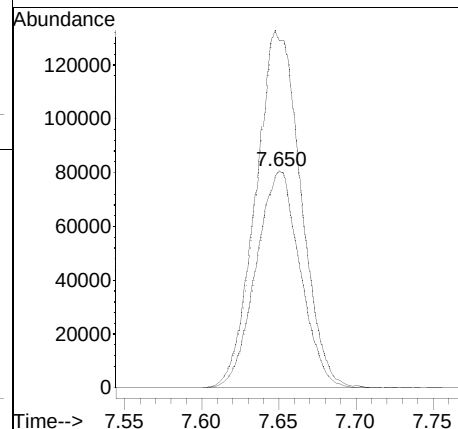
Tgt Ion:	75	Resp:	64700
Ion Ratio	Lower	Upper	
75	100		
77	31.7	24.6	37.0
39	64.3	48.9	73.3

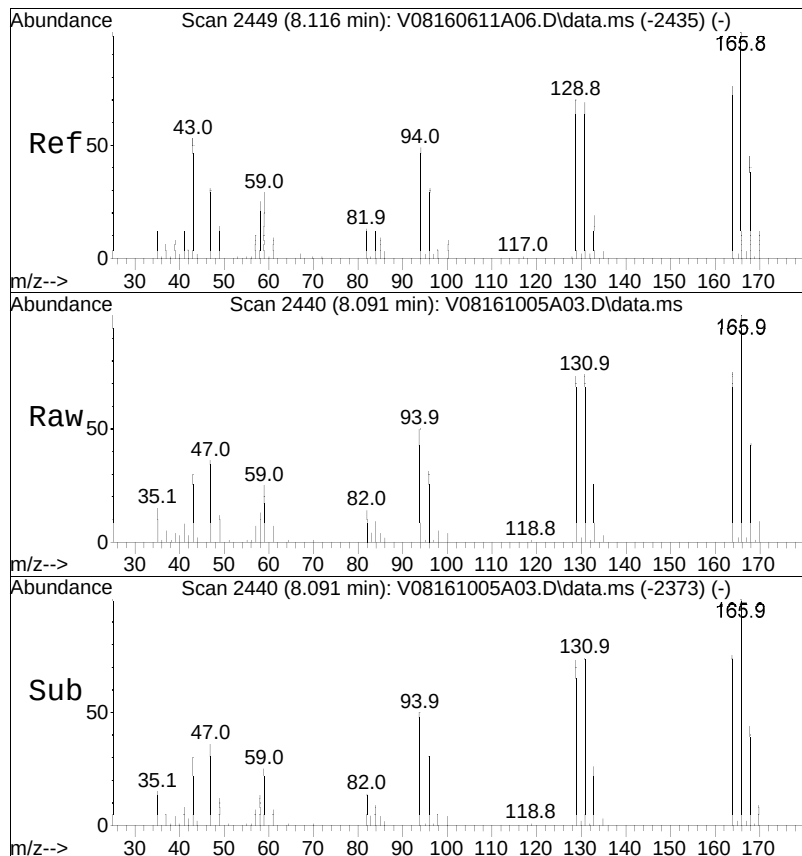




#61
 Toluene
 Concen: 10.81 ug/L
 RT: 7.650 min Scan# 2282
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

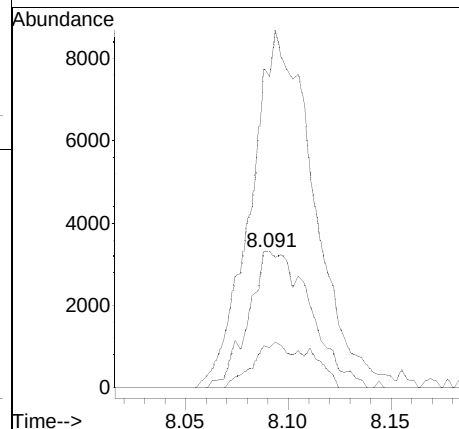
Tgt Ion	Ratio	Lower	Upper
92	100		
91	167.9	132.6	198.8

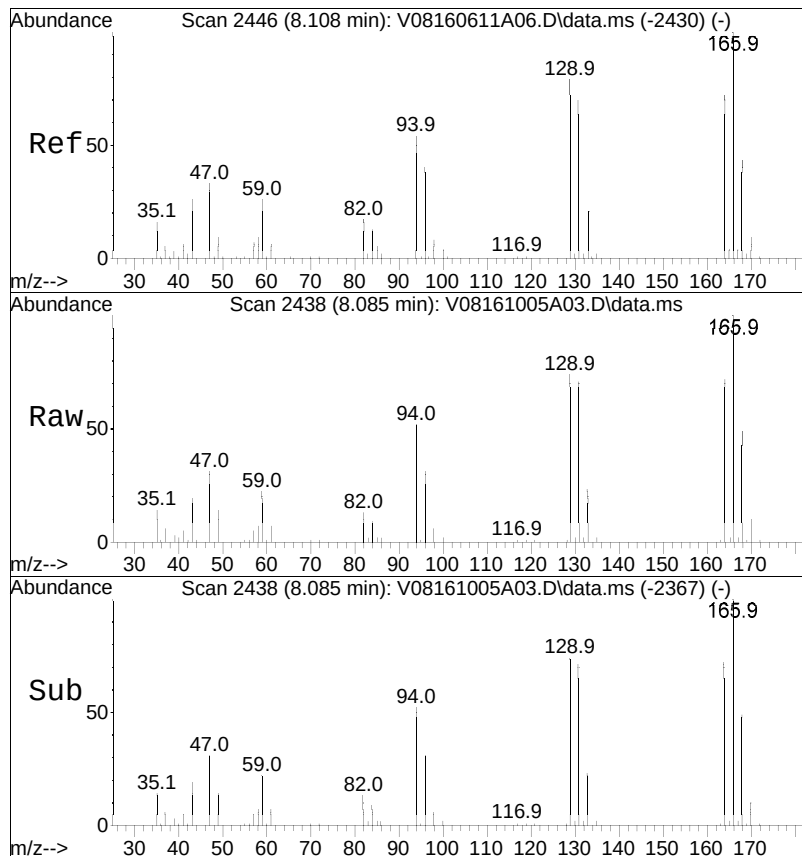




#62
 4-Methyl-2-pentanone
 Concen: 7.81 ug/L
 RT: 8.091 min Scan# 2440
 Delta R.T. -0.014 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

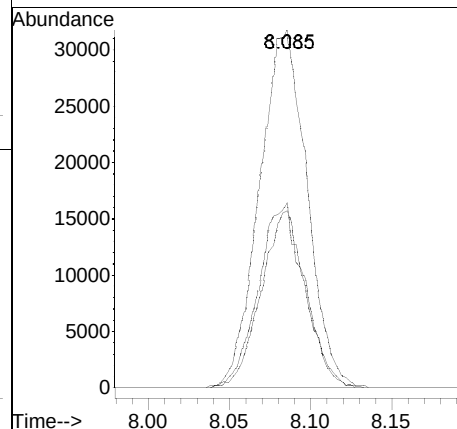
Tgt Ion:	58	Resp:	6938
Ion Ratio	Lower	Upper	
58	100		
100	19.8	21.5	32.3#
43	268.7	204.0	306.0

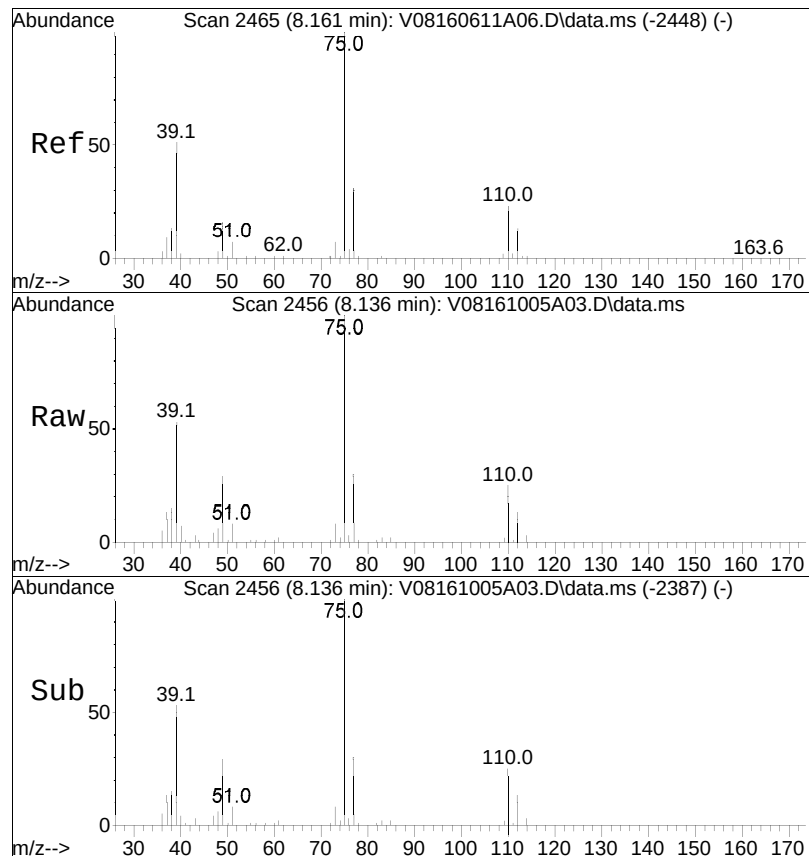




#63
 Tetrachloroethene
 Concen: 10.44 ug/L
 RT: 8.085 min Scan# 2438
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

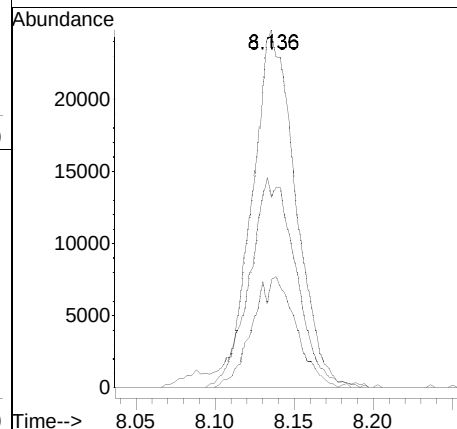
Tgt Ion:	166	Resp:	64248
Ion Ratio	Lower	Upper	
166	100		
168	47.0	28.7	68.7
94	49.9	32.1	72.1

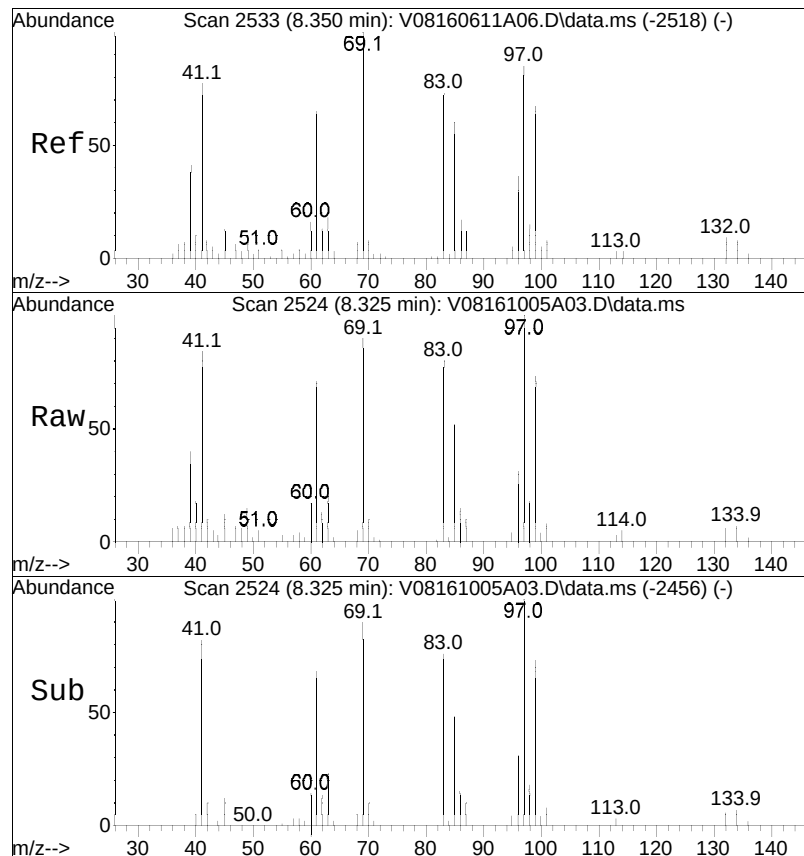




#65
 trans-1,3-Dichloropropene
 Concen: 9.56 ug/L
 RT: 8.136 min Scan# 2456
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

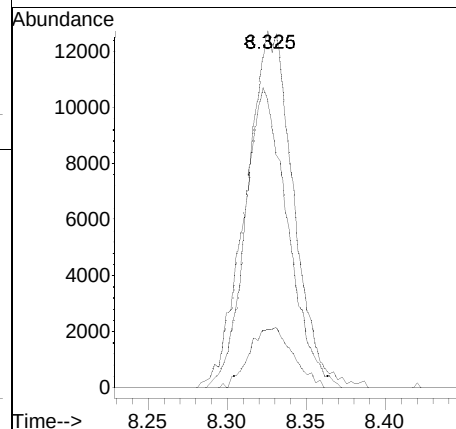
Tgt Ion:	75	Resp:	47190
Ion Ratio	Lower	Upper	
75	100		
77	31.2	12.1	52.1
39	62.8	45.2	85.2

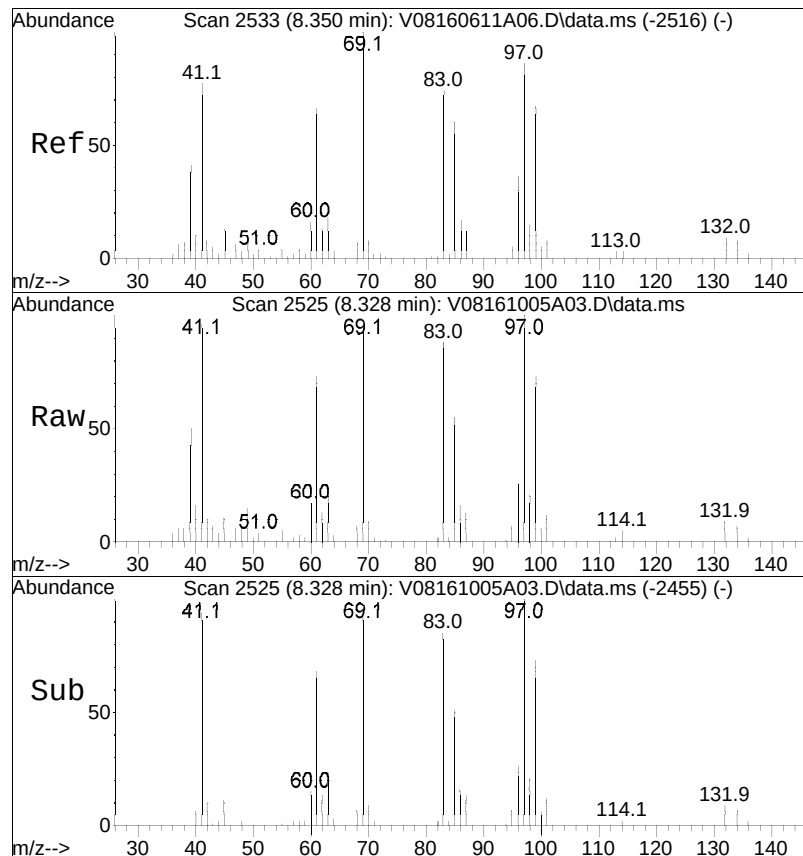




#67
 Ethyl methacrylate
 Concen: 7.61 ug/L
 RT: 8.325 min Scan# 2524
 Delta R.T. -0.011 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

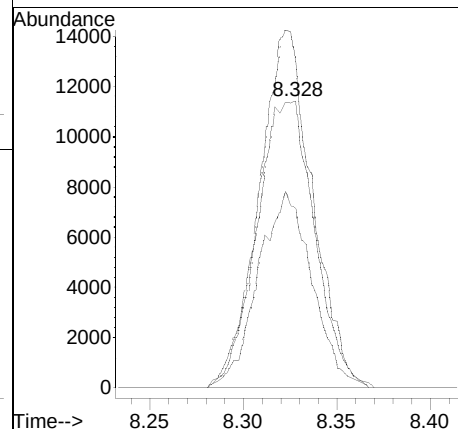
Tgt Ion:	69	Resp:	25243
Ion Ratio	Lower	Upper	
69	100		
99	84.3	55.8	95.8
86	16.4	0.0	36.2

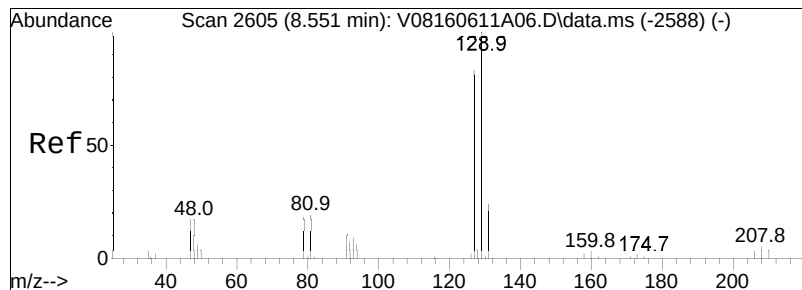




#68
 1,1,2-Trichloroethane
 Concen: 10.46 ug/L
 RT: 8.328 min Scan# 2525
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

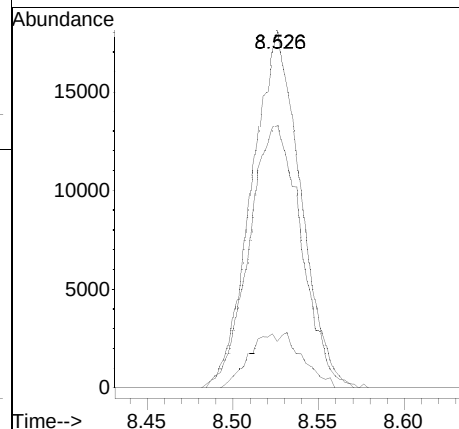
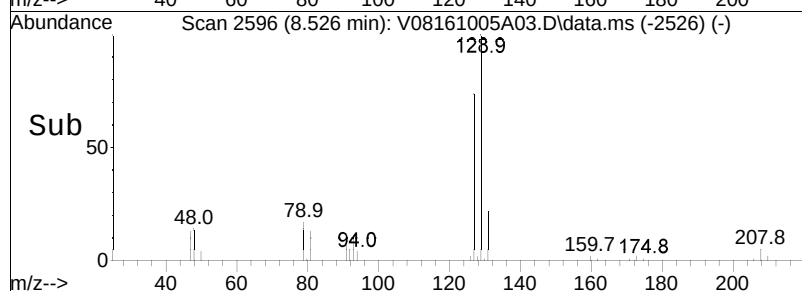
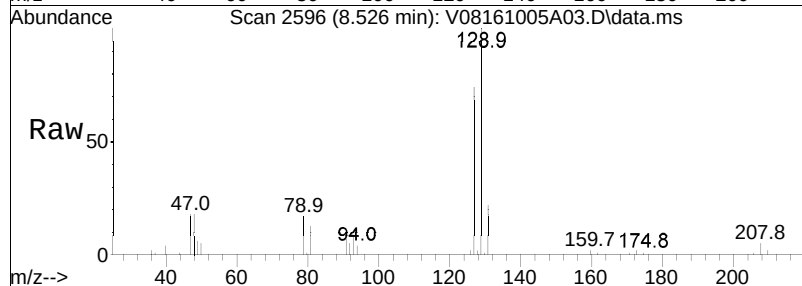
Tgt Ion:	83	Resp:	24398
Ion Ratio	Lower	Upper	
83	100		
97	115.6	98.1	138.1
85	64.1	46.0	86.0

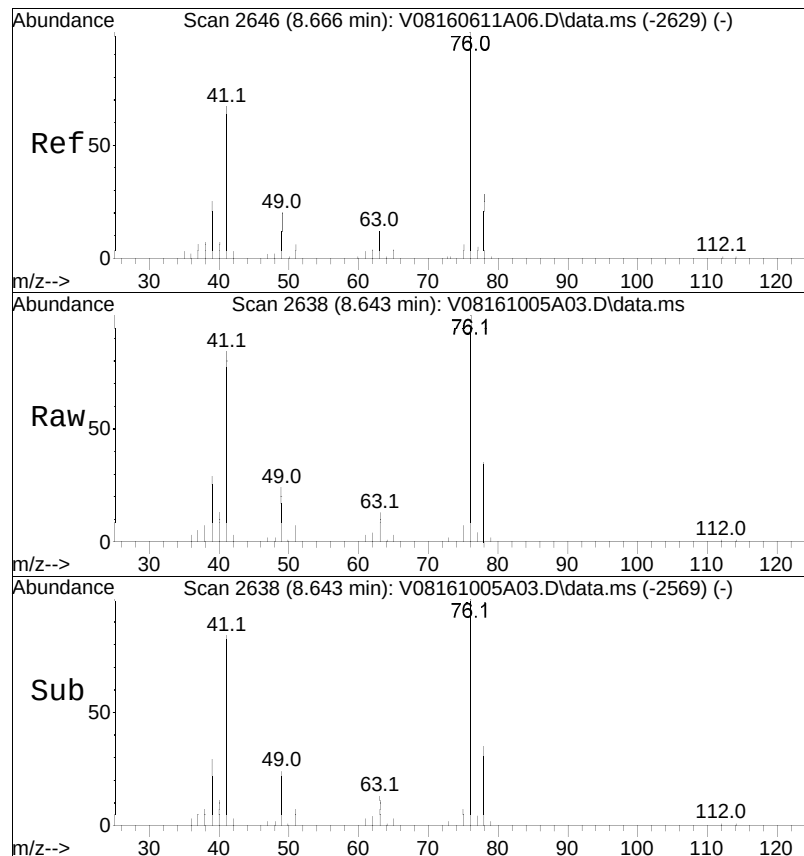




#69
 Chlorodibromomethane
 Concen: 9.85 ug/L
 RT: 8.526 min Scan# 2596
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

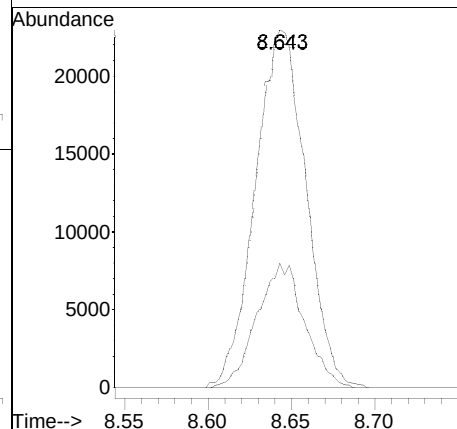
Tgt Ion	Ratio	Lower	Upper
129	100		
81	9.2	0.0	37.5
127	78.4	56.3	96.3

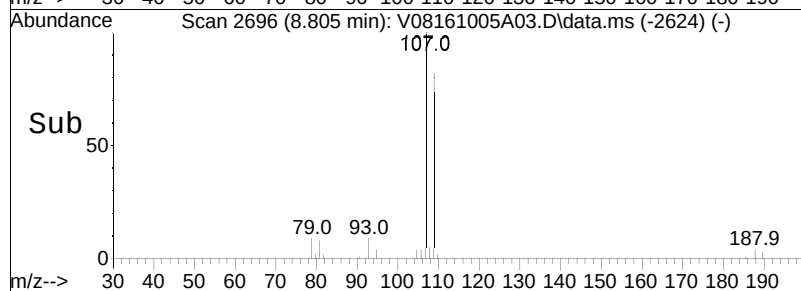
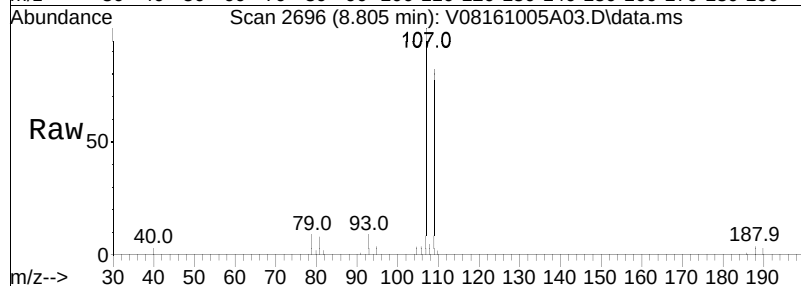
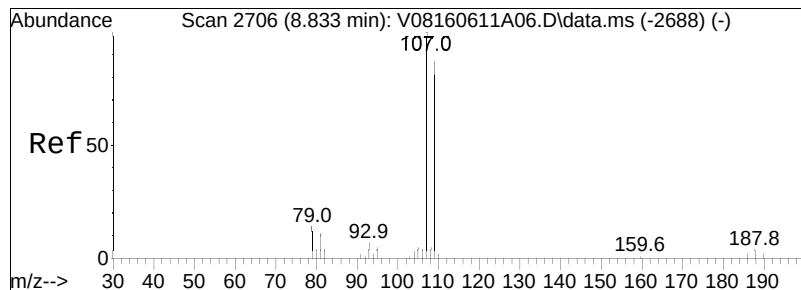




#70
 1,3-Dichloropropane
 Concen: 9.55 ug/L
 RT: 8.643 min Scan# 2638
 Delta R.T. -0.009 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

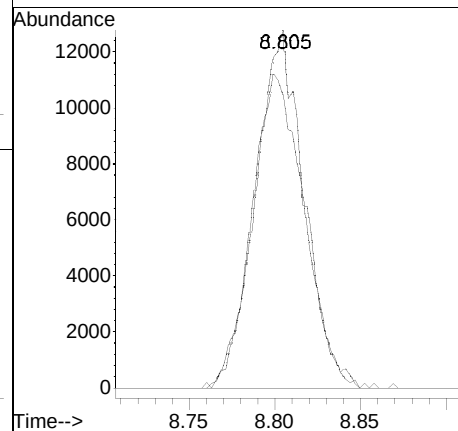
Tgt Ion:	76	78	Ratio	100	32.8	Resp:	48083	Lower	Upper
								25.9	38.9

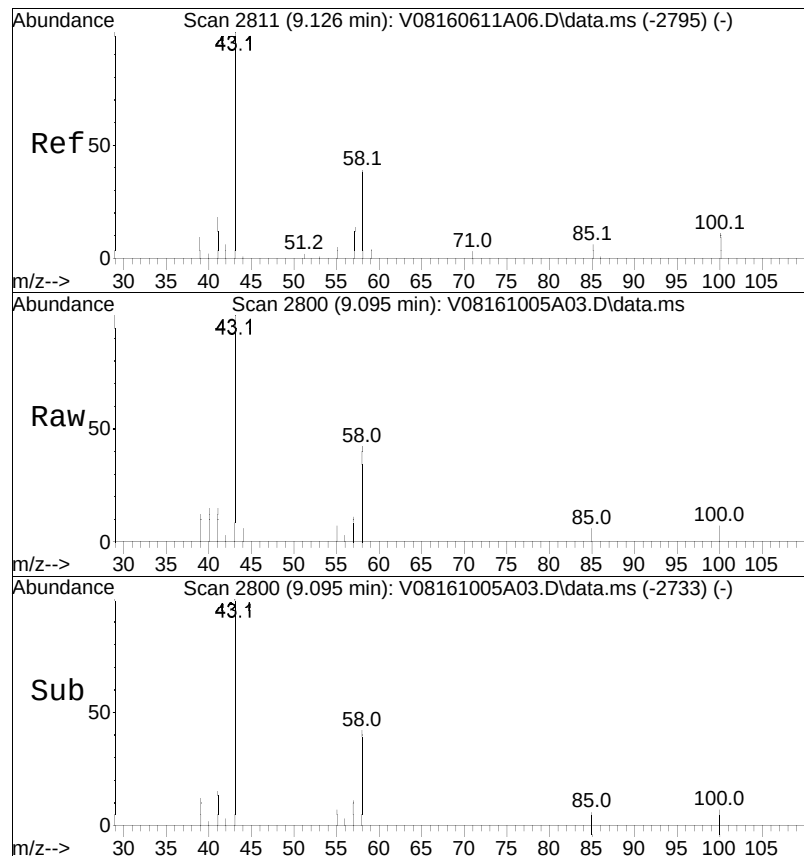




#71
 1,2-Dibromoethane
 Concen: 9.92 ug/L
 RT: 8.805 min Scan# 2696
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

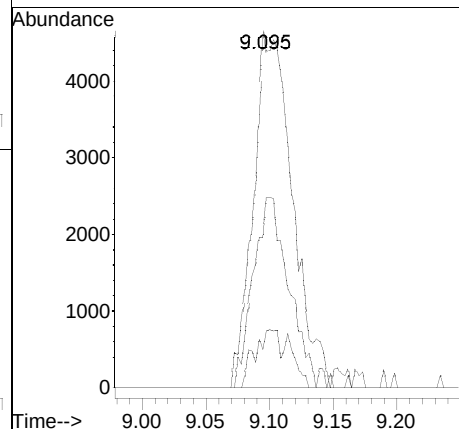
Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.8	78.1	117.1

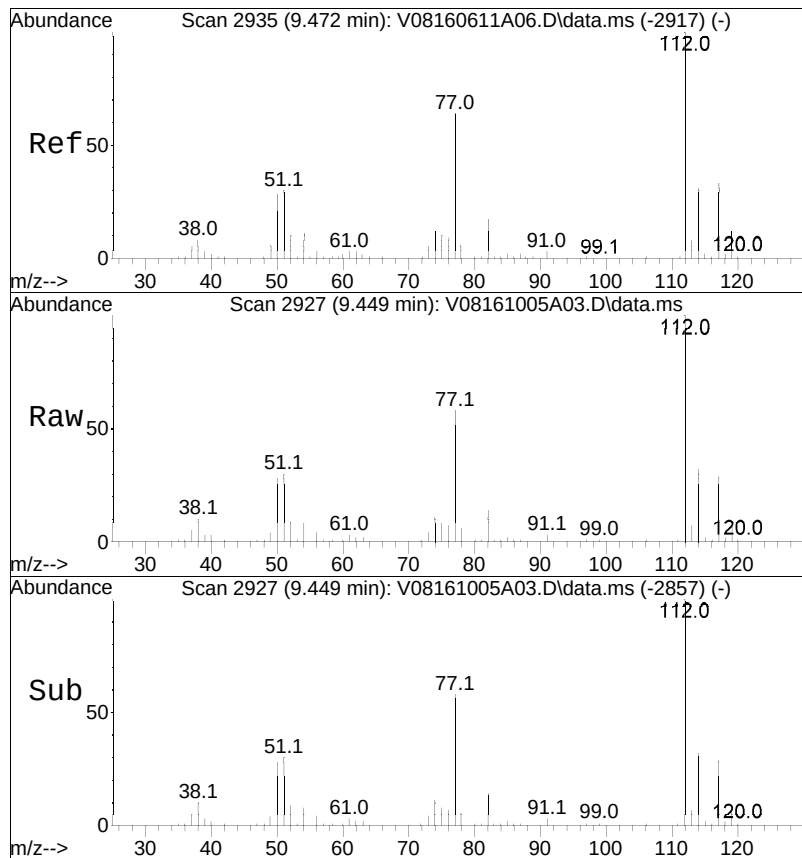




#72
 2-Hexanone
 Concen: 7.31 ug/L M1
 RT: 9.095 min Scan# 2800
 Delta R.T. -0.014 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

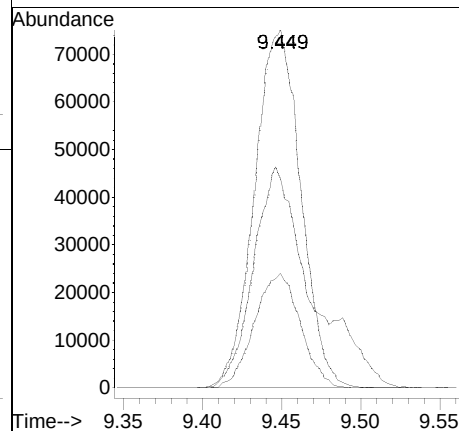
Tgt Ion:	43	Resp:	10076
Ion Ratio	Lower	Upper	
43	100		
58	47.5	40.6	60.8
57	9.9	14.7	22.1#

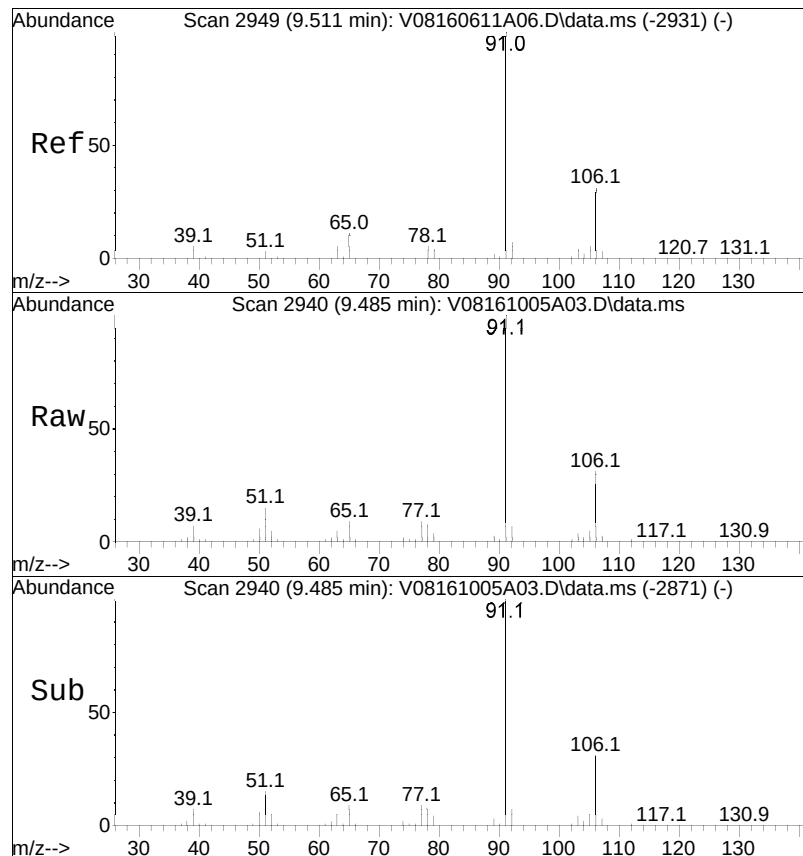




#73
 Chlorobenzene
 Concen: 9.96 ug/L
 RT: 9.449 min Scan# 2927
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

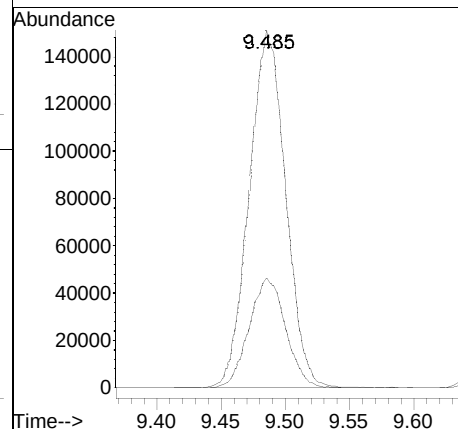
Tgt Ion:	112	Resp:	152163
Ion Ratio	Lower	Upper	
112	100		
77	65.6	61.0	91.6
114	31.7	25.5	38.3

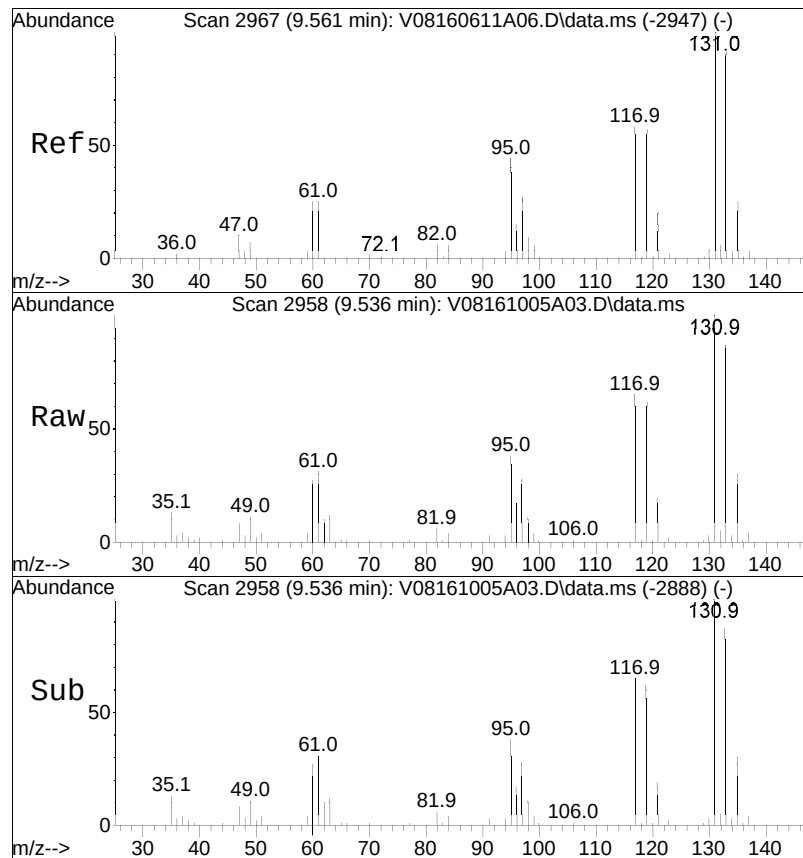




#74
 Ethylbenzene
 Concen: 10.76 ug/L
 RT: 9.485 min Scan# 2940
 Delta R.T. -0.009 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

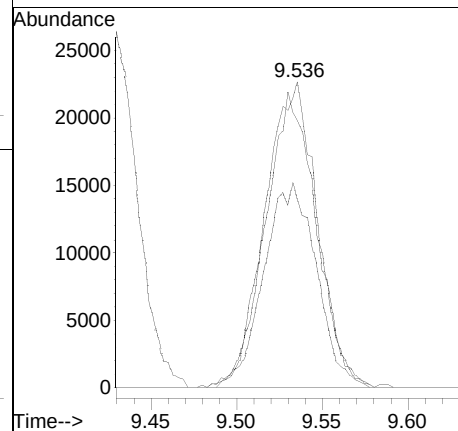
Tgt	Ion	Resp	Lower	Upper
91	100	294254		
106	30.8	24.2	36.2	

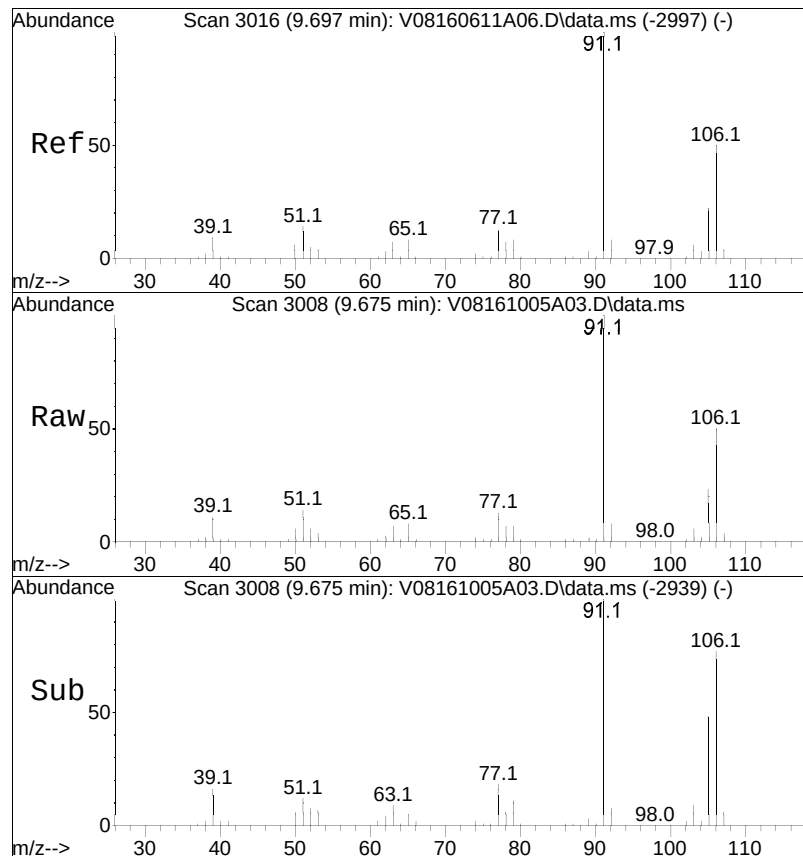




#75
 1,1,1,2-Tetrachloroethane
 Concen: 9.72 ug/L
 RT: 9.536 min Scan# 2958
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

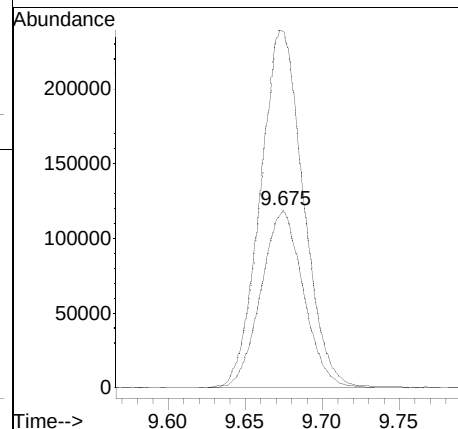
Tgt Ion:	131	Resp:	47994
Ion Ratio	Lower	Upper	
131	100		
133	94.6	76.8	116.8
119	33.9	44.9	84.9#

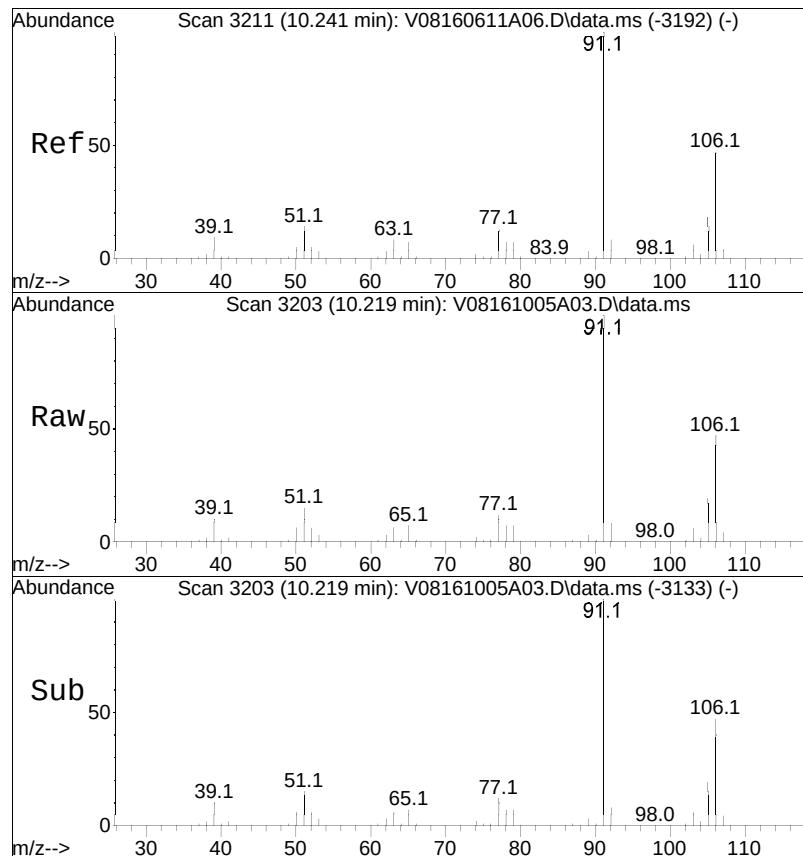




#76
 p/m Xylene
 Concen: 20.95 ug/L
 RT: 9.675 min Scan# 3008
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

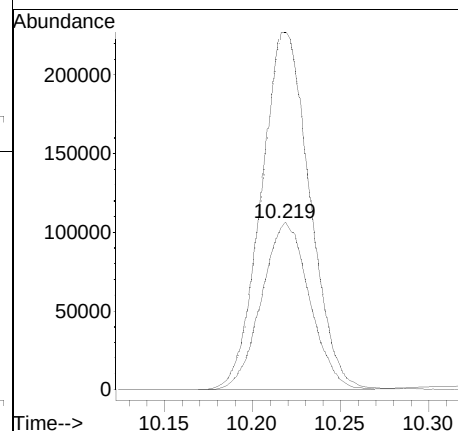
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	204.6	167.8	251.6	

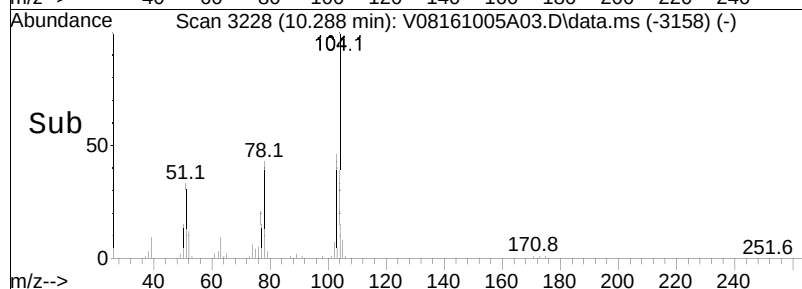
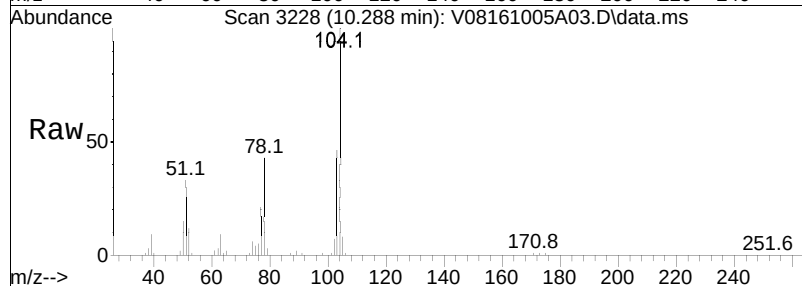
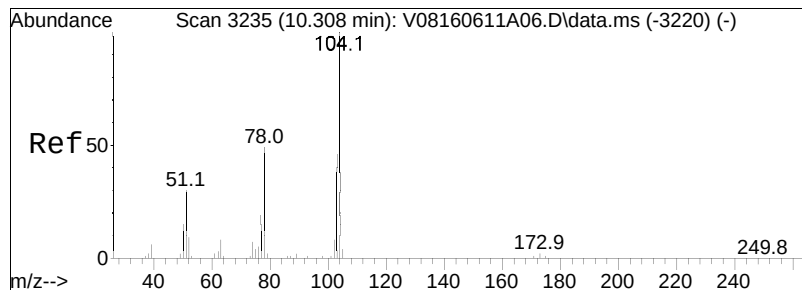




#77
 o Xylene
 Concen: 20.63 ug/L
 RT: 10.219 min Scan# 3203
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

Tgt Ion	Ratio	Lower	Upper
106	100		
91	216.2	176.2	264.4





#78

Styrene

Concen: 20.98 ug/L

RT: 10.288 min Scan# 3228

Delta R.T. -0.006 min

Lab File: V08161005A03.D

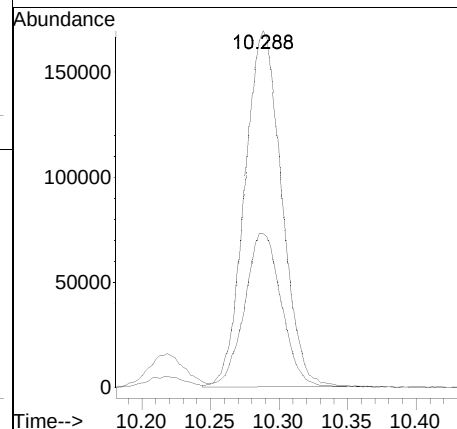
Acq: 5 Oct 2016 10:24 am

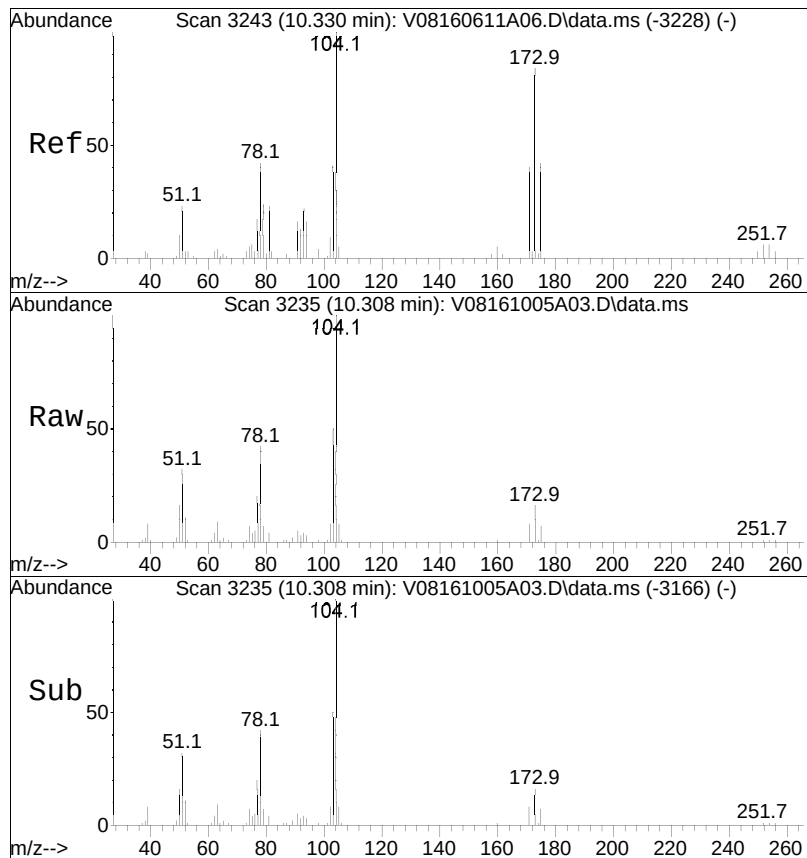
Tgt Ion:104 Resp: 317231

Ion Ratio Lower Upper

104 100

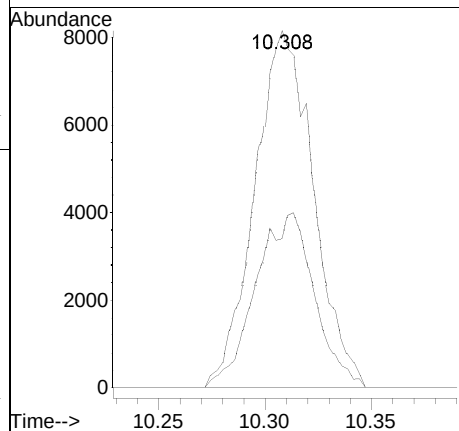
78 43.6 36.0 54.0

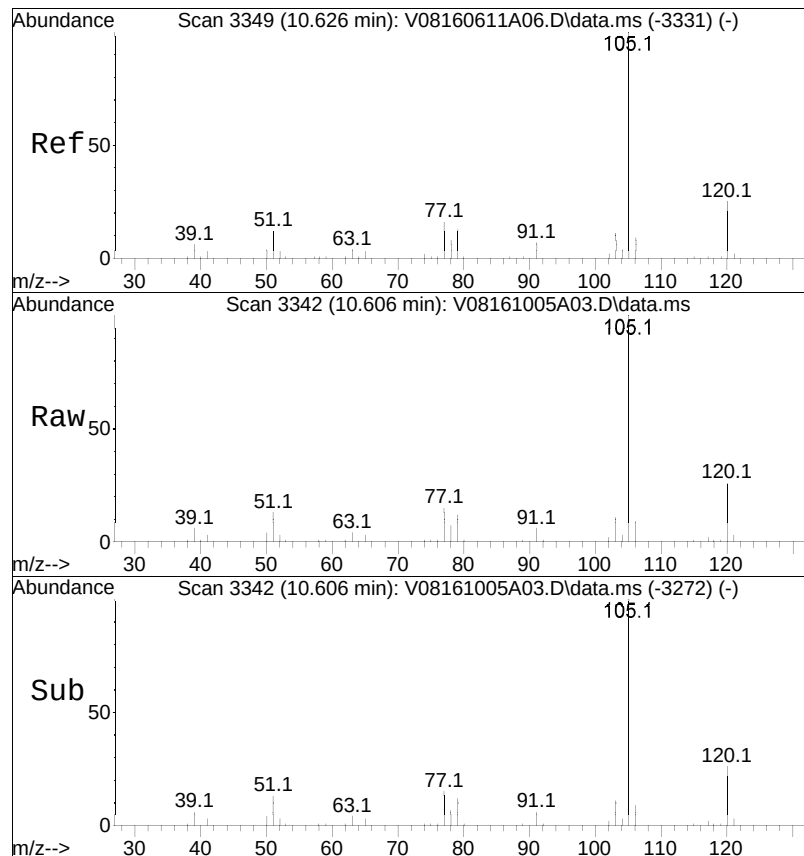




#80
 Bromoform
 Concen: 10.24 ug/L
 RT: 10.308 min Scan# 3235
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

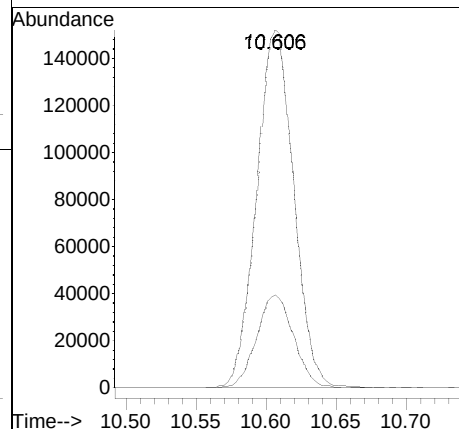
Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.1	27.7	67.7

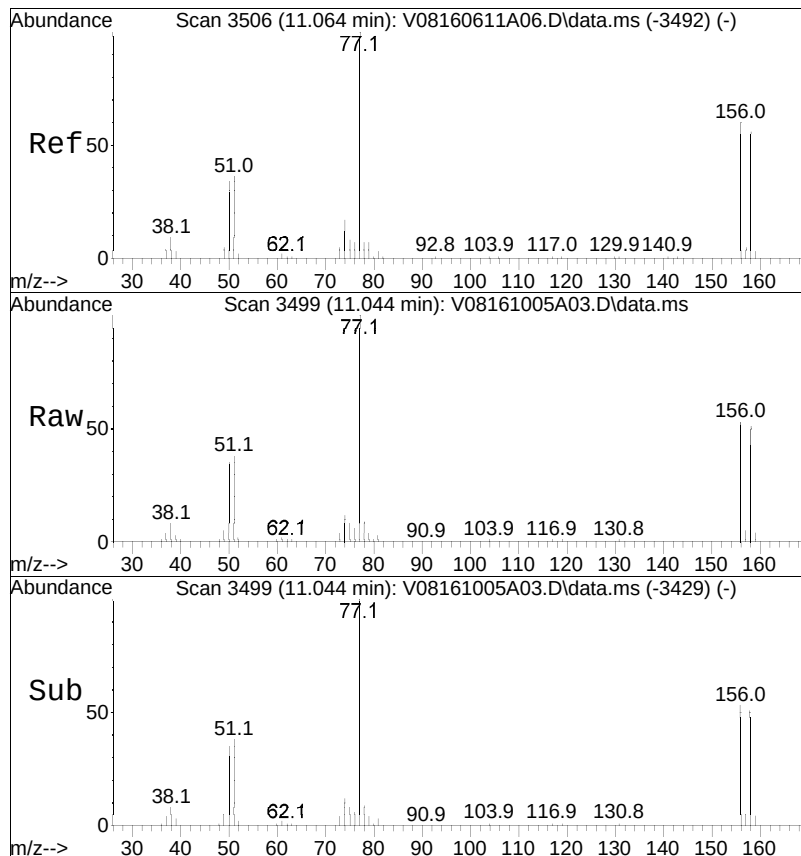




#82
 Isopropylbenzene
 Concen: 11.16 ug/L
 RT: 10.606 min Scan# 3342
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

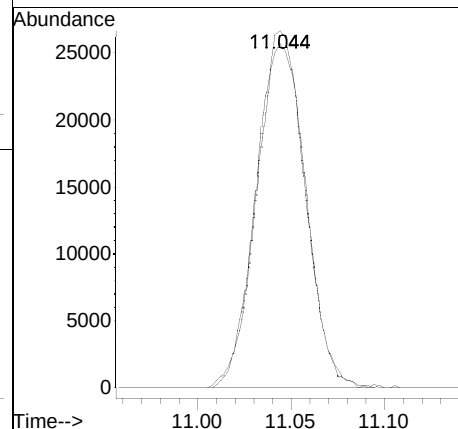
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	6.7	46.7

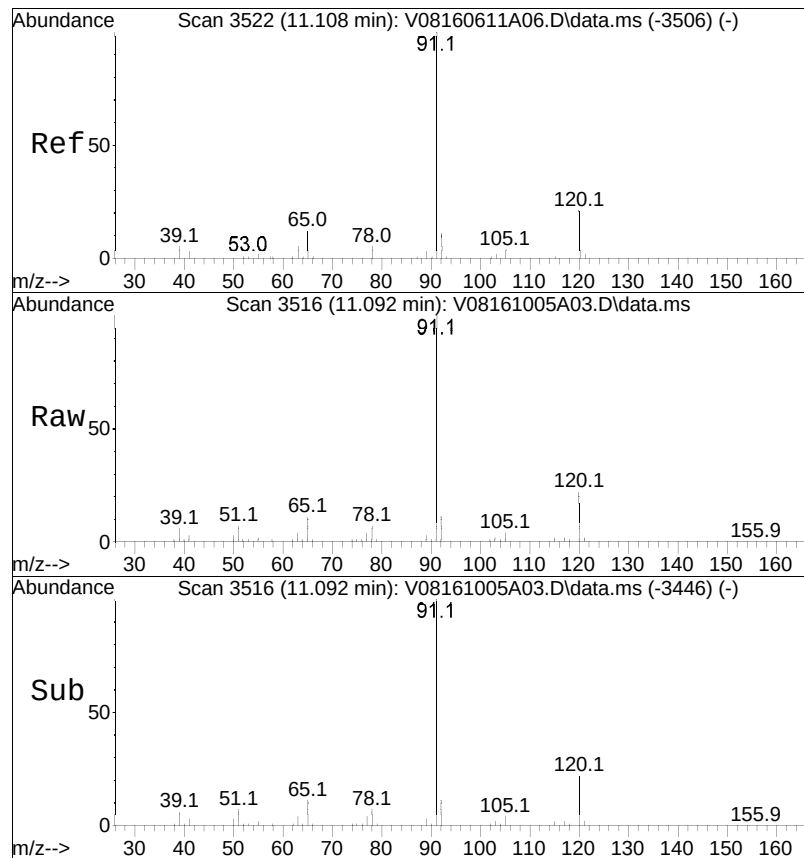




#84
 Bromobenzene
 Concen: 10.36 ug/L
 RT: 11.044 min Scan# 3499
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

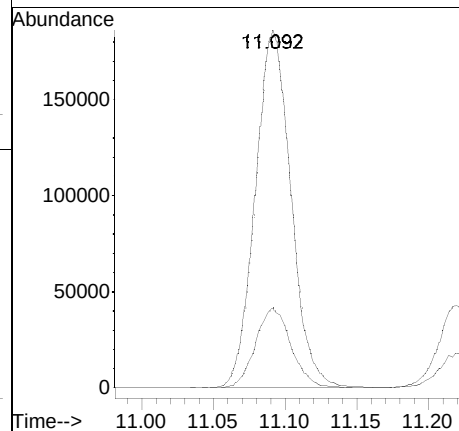
Tgt Ion	Ratio	Lower	Upper
156	100		
158	97.0	78.0	117.0

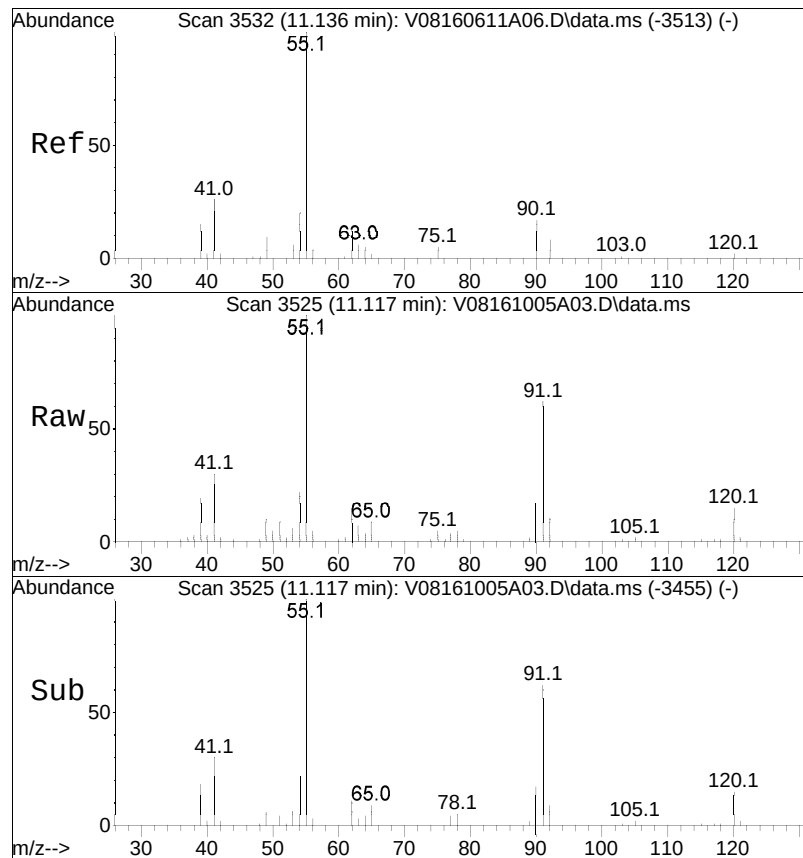




#85
 n-Propylbenzene
 Concen: 11.29 ug/L
 RT: 11.092 min Scan# 3516
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

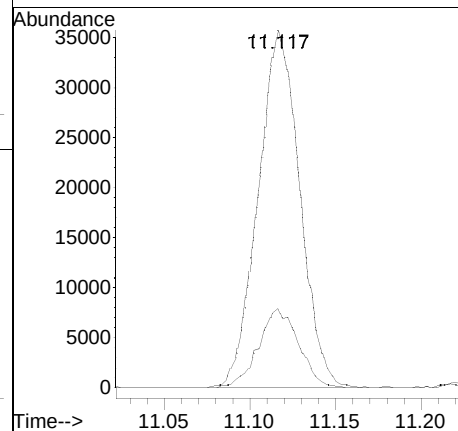
Tgt Ion:	91	Resp:	319155
Ion Ratio	Lower	Upper	
91	100		
120	22.5	17.2	25.8

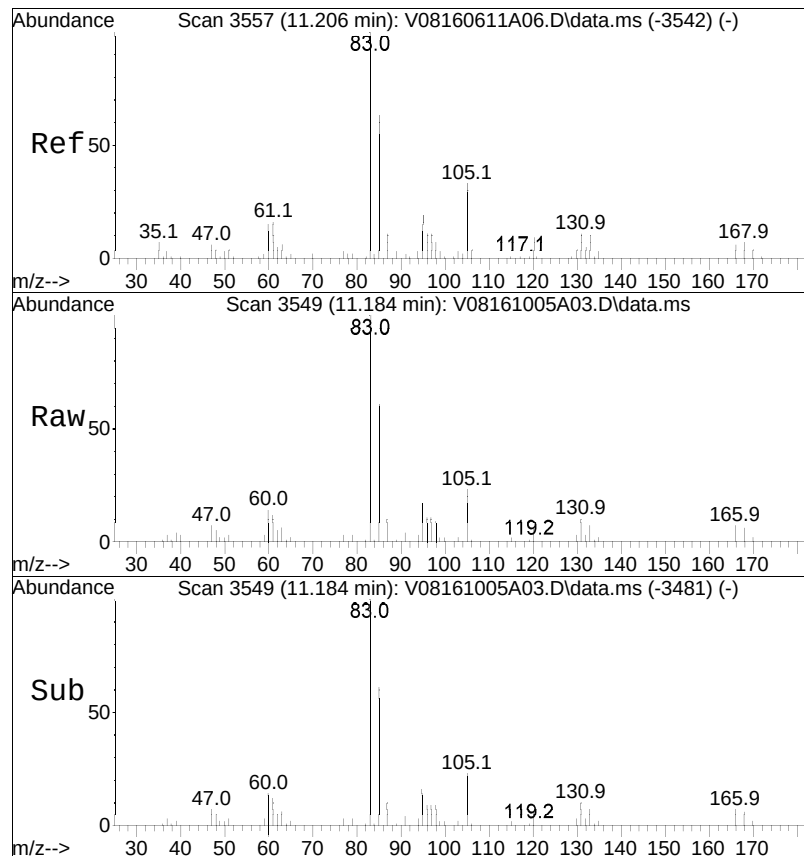




#86
 1,4-Dichlorobutane
 Concen: 10.93 ug/L
 RT: 11.117 min Scan# 3525
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

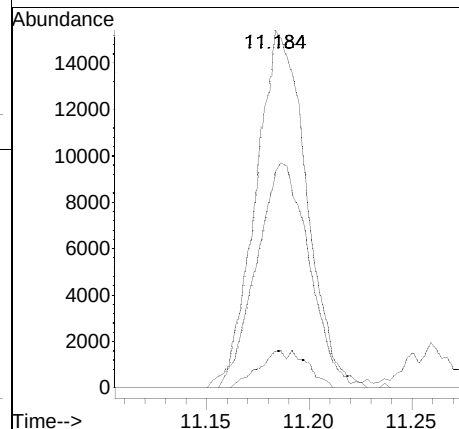
Tgt Ion: 55 Resp: 59866
 Ion Ratio Lower Upper
 55 100
 54 21.4 15.8 23.8

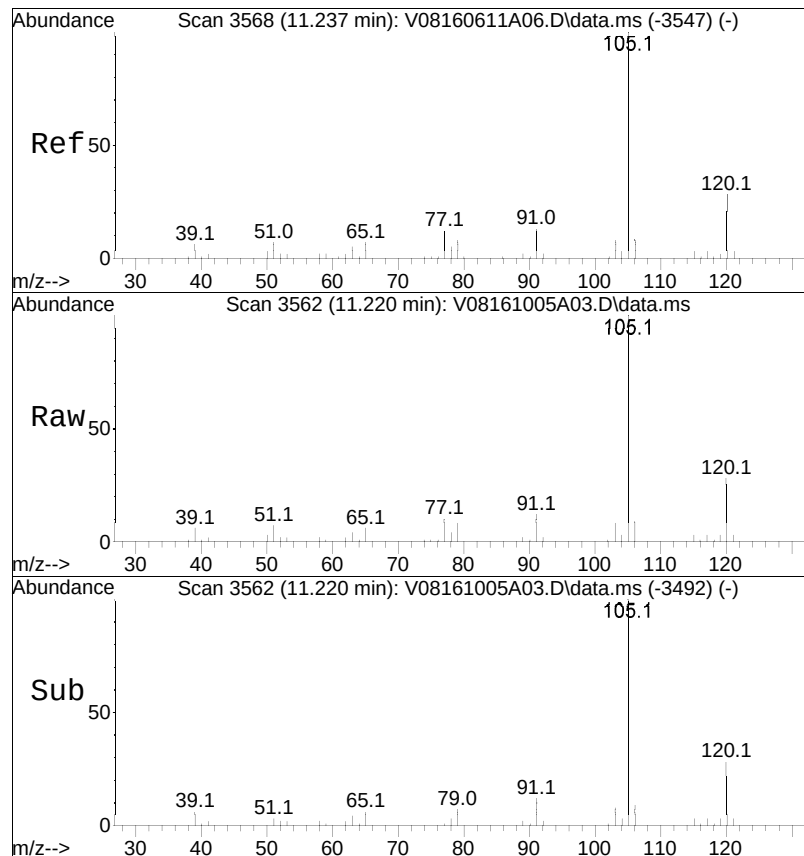




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.65 ug/L
 RT: 11.184 min Scan# 3549
 Delta R.T. -0.011 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

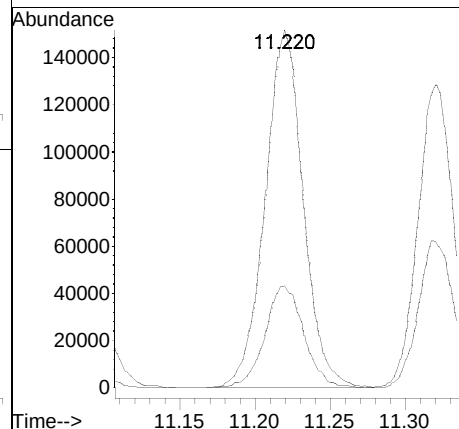
Tgt Ion:	83	Resp:	26188
Ion Ratio	Lower	Upper	
83	100		
131	9.9	0.0	28.9
85	65.6	47.6	87.6

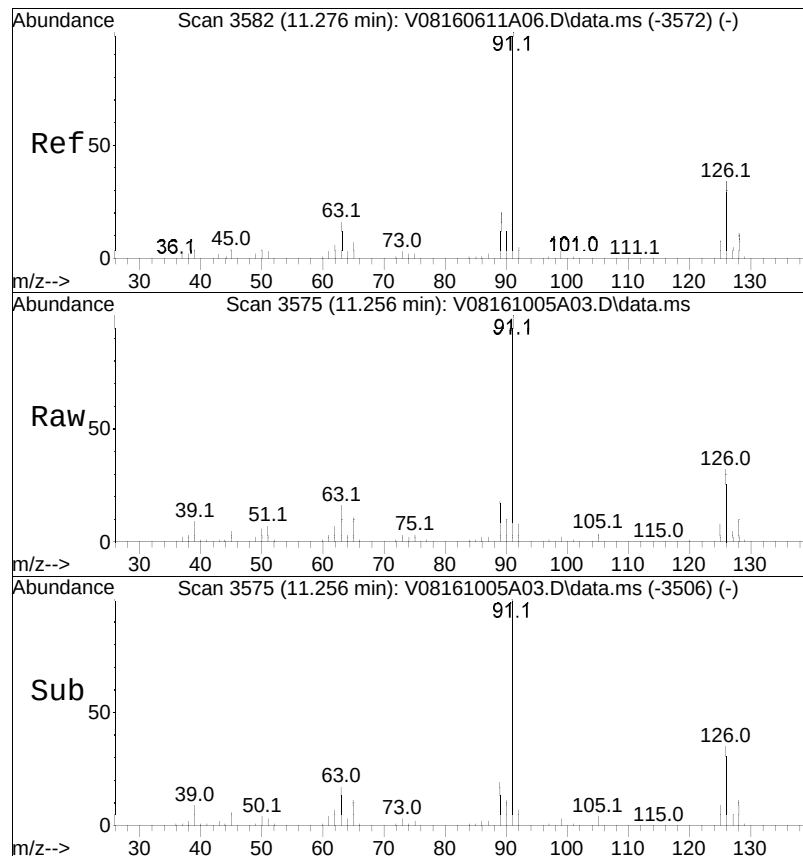




#88
 4-Ethyltoluene
 Concen: 11.37 ug/L
 RT: 11.220 min Scan# 3562
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

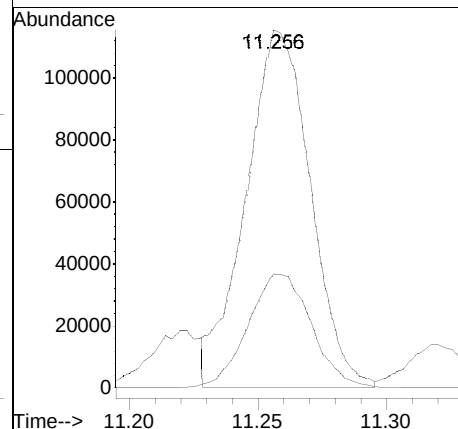
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.2	19.4	40.4

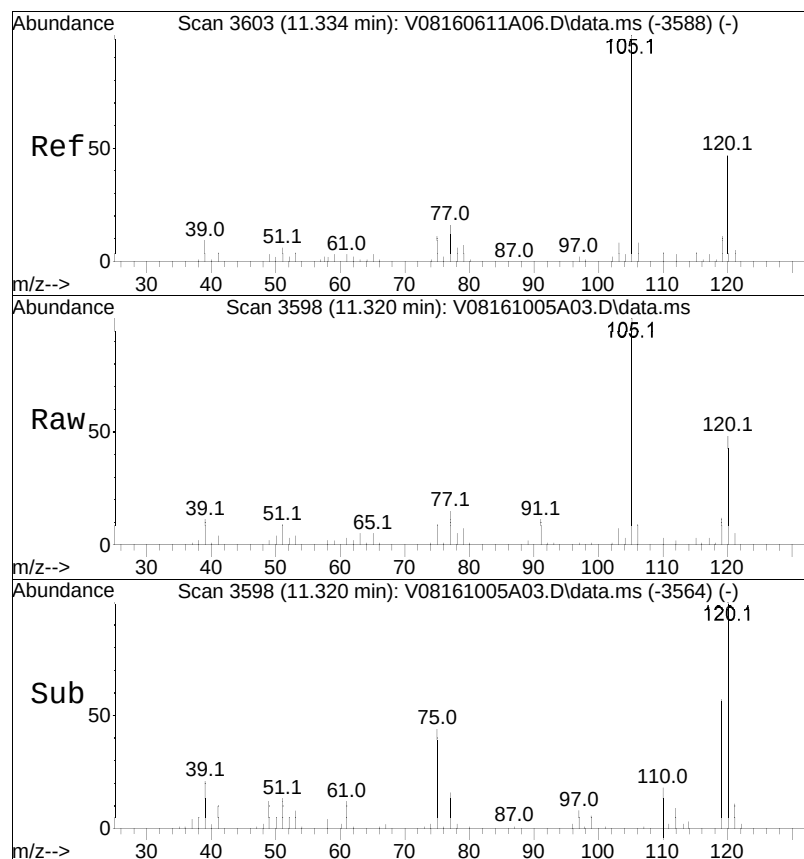




#89
 2-Chlorotoluene
 Concen: 11.81 ug/L
 RT: 11.256 min Scan# 3575
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

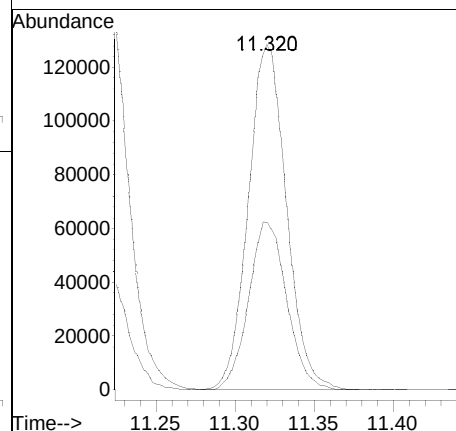
Tgt Ion:	91	Resp:	200240
Ion Ratio	100	Lower	Upper
126	31.4	25.3	37.9

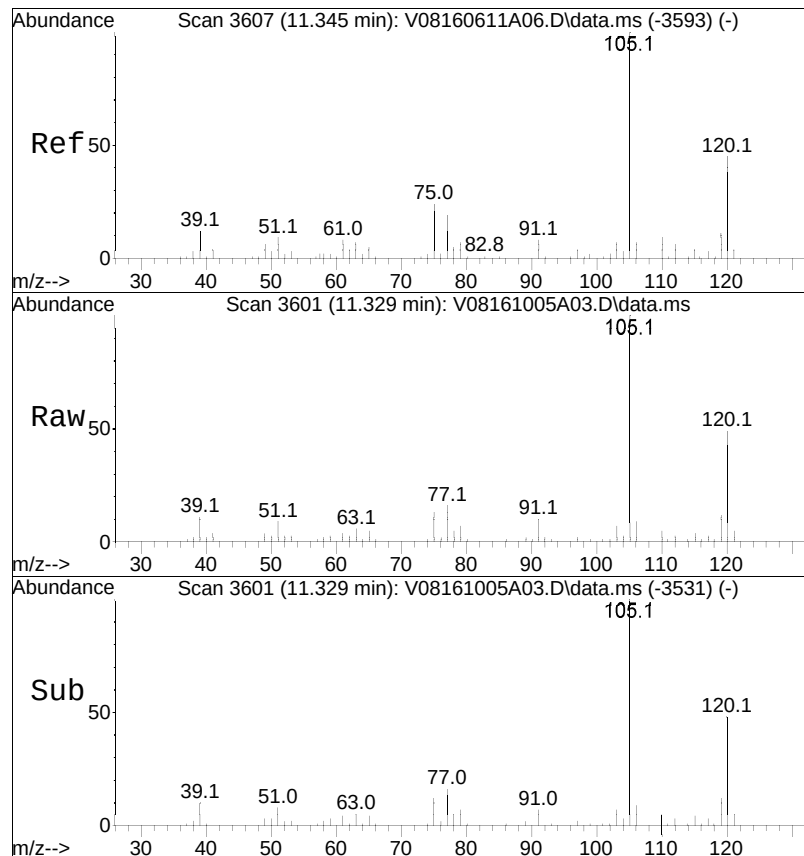




#90
 1,3,5-Trimethylbenzene
 Concen: 11.27 ug/L
 RT: 11.320 min Scan# 3598
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

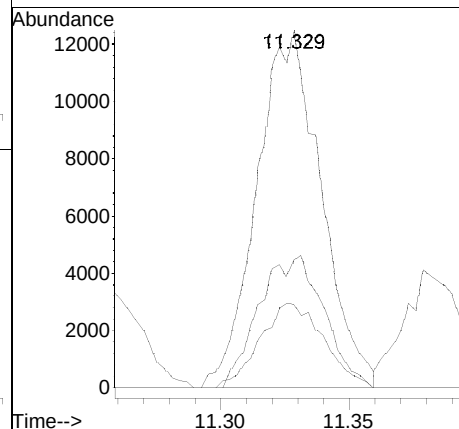
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	215318				
Ion Ratio	100	48.8			
			28.0		42.0#

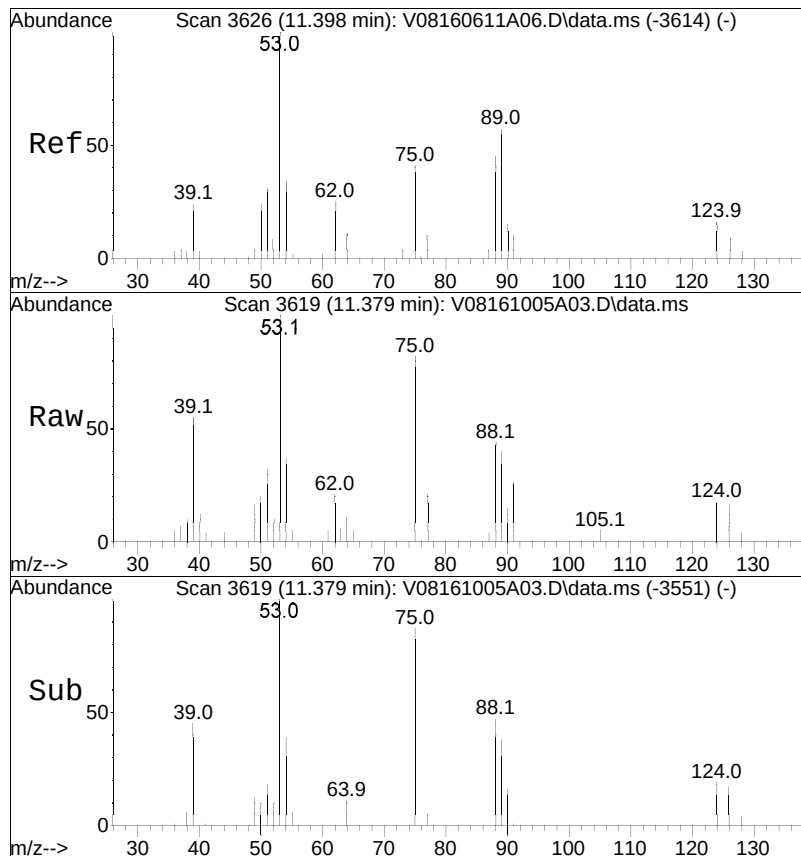




#91
 1,2,3-Trichloropropane
 Concen: 10.71 ug/L
 RT: 11.329 min Scan# 3601
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

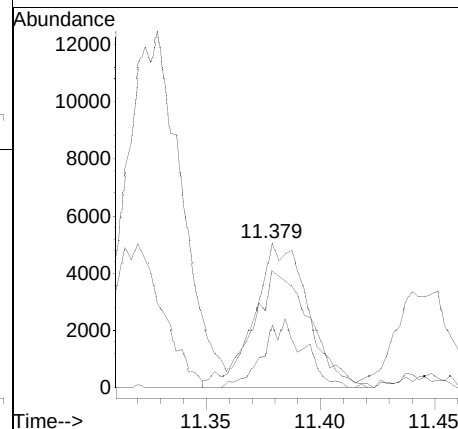
Tgt Ion:	75	Resp:	21567
Ion Ratio	Lower	Upper	
75	100		
110	37.5	23.5	48.7
112	23.6	15.2	31.6

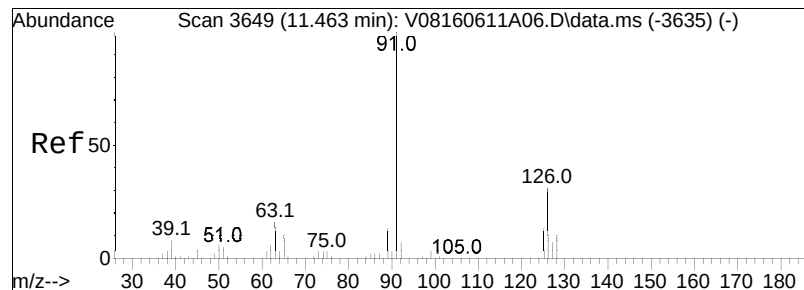




#92
 trans-1,4-Dichloro-2-butene
 Concen: 10.53 ug/L
 RT: 11.379 min Scan# 3619
 Delta R.T. -0.011 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

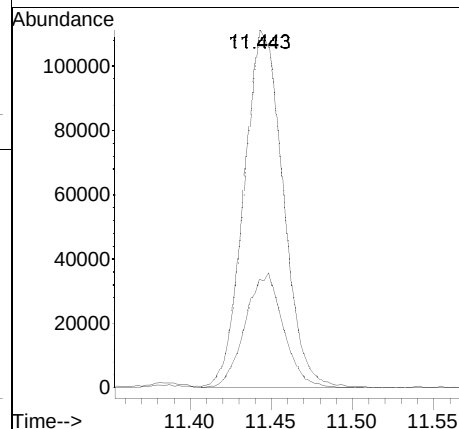
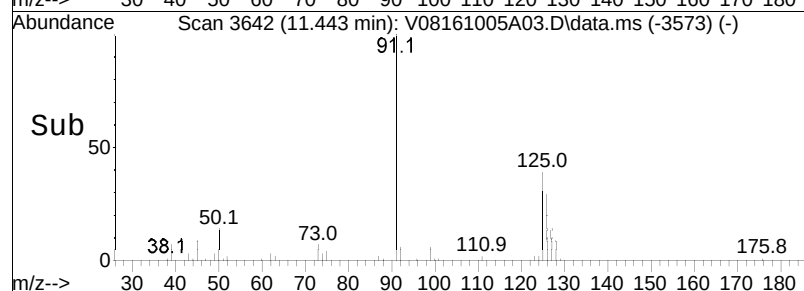
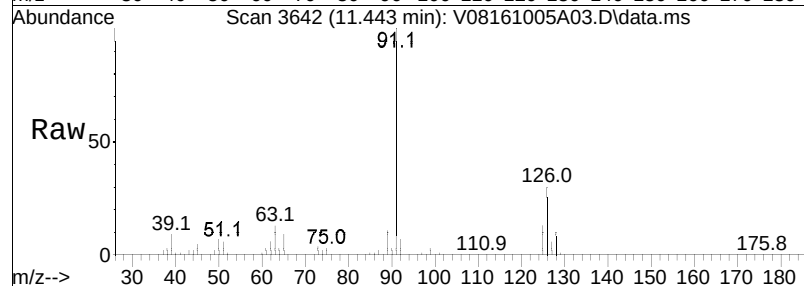
Tgt Ion	Ratio	Lower	Upper
53	100		
88	35.8	25.7	38.5
75	72.9	63.8	95.8

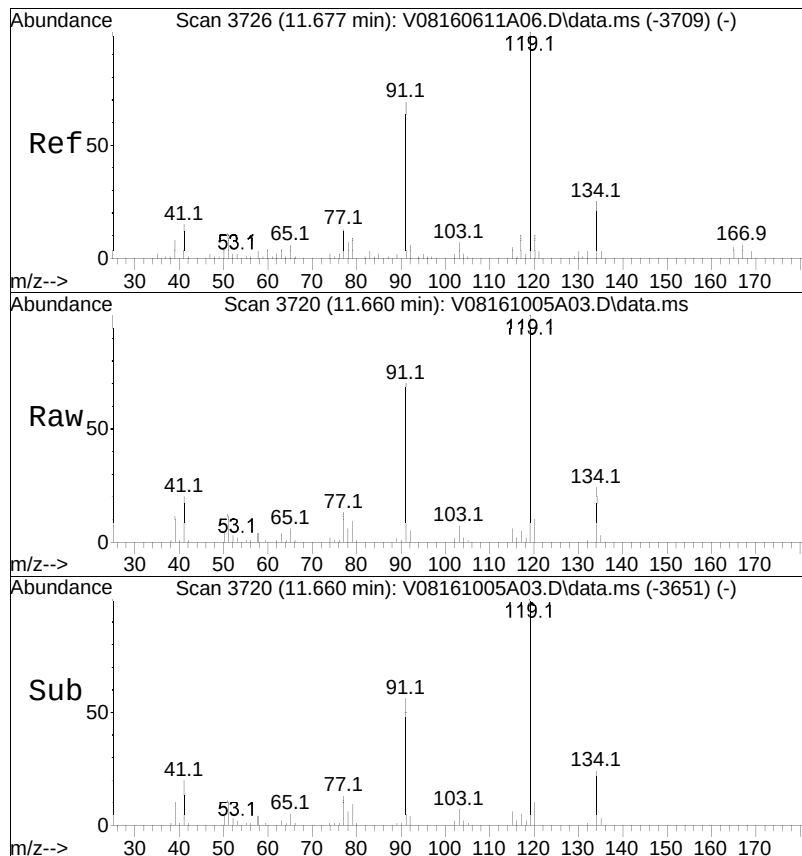




#93
 4-Chlorotoluene
 Concen: 11.53 ug/L
 RT: 11.443 min Scan# 3642
 Delta R.T. -0.008 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

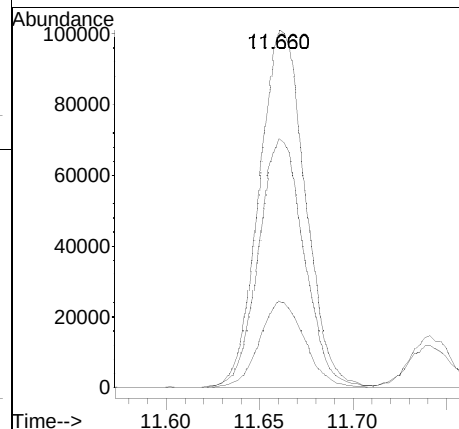
Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.3	0.0	0.0#

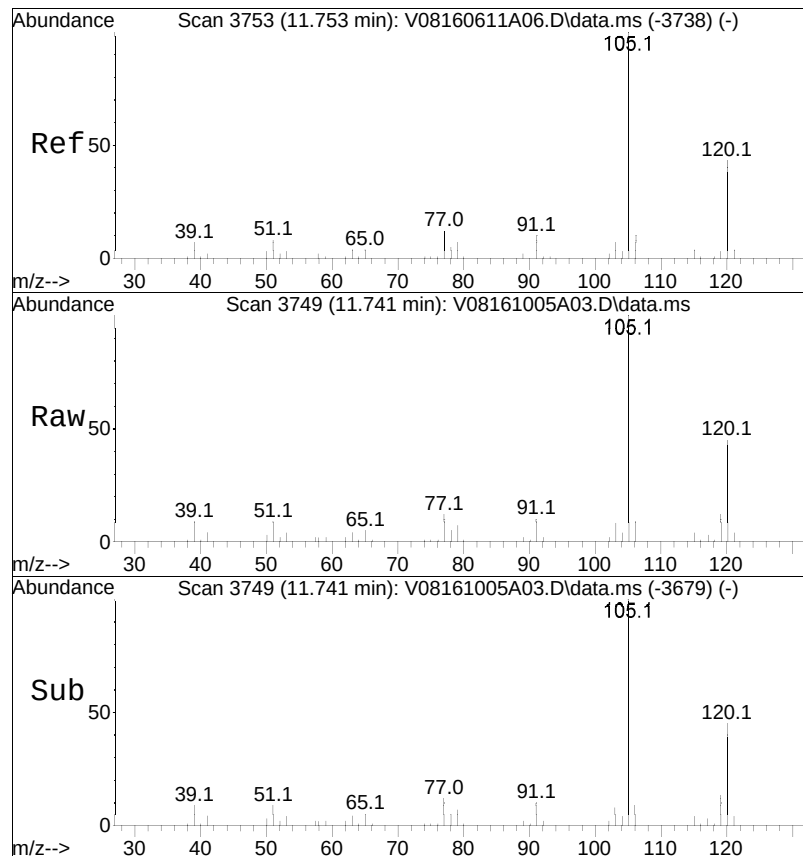




#94
 tert-Butylbenzene
 Concen: 9.29 ug/L
 RT: 11.660 min Scan# 3720
 Delta R.T. -0.009 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

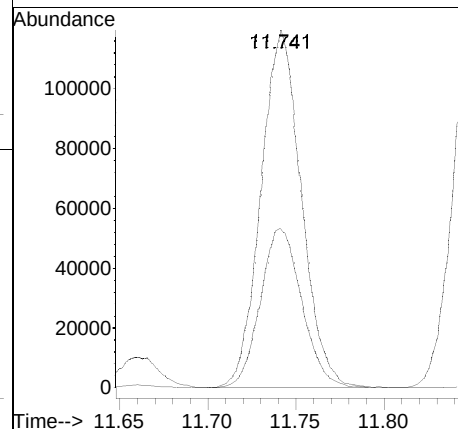
Tgt	Ion	Ratio	Lower	Upper
119	100			
91	68.8	47.2	70.8	
134	23.7	18.2	27.4	

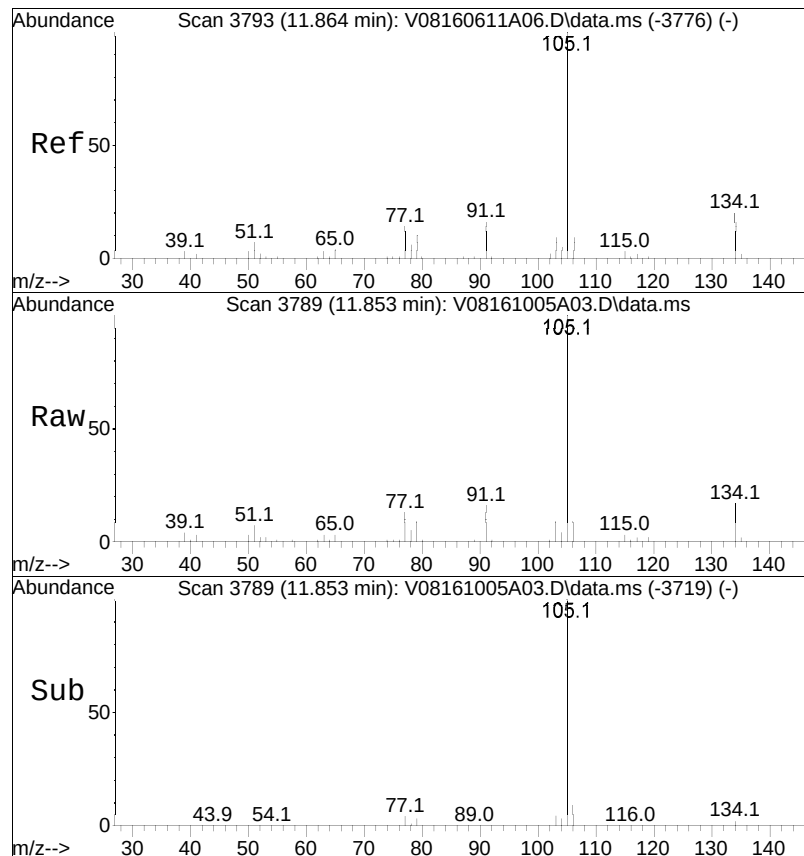




#97
 1,2,4-Trimethylbenzene
 Concen: 10.95 ug/L
 RT: 11.741 min Scan# 3749
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

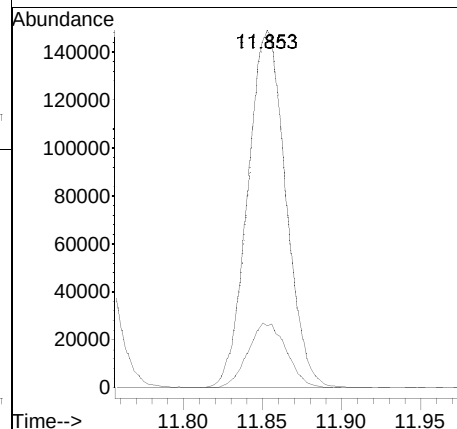
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	35.9	53.9

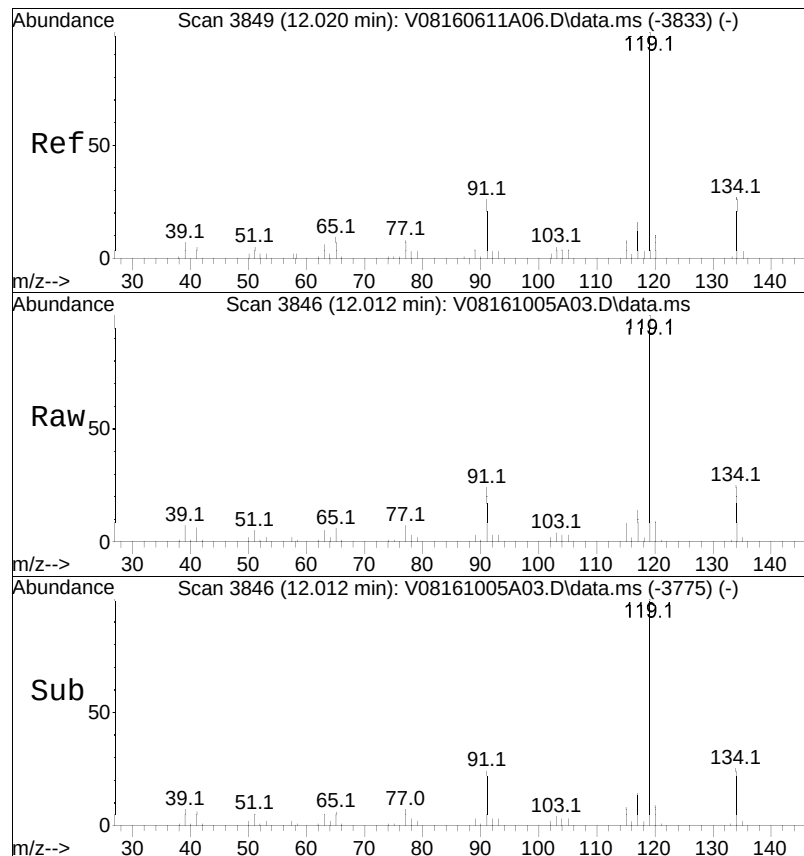




#98
 sec-Butylbenzene
 Concen: 10.44 ug/L
 RT: 11.853 min Scan# 3789
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

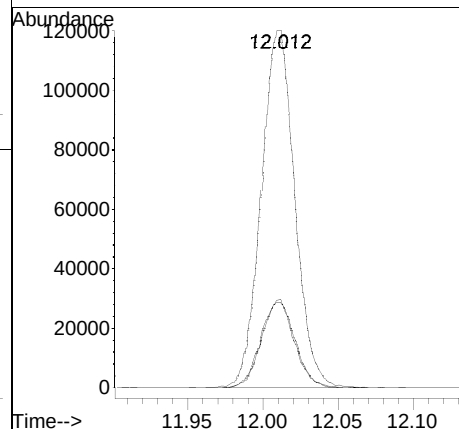
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	18.5	12.5	26.1	

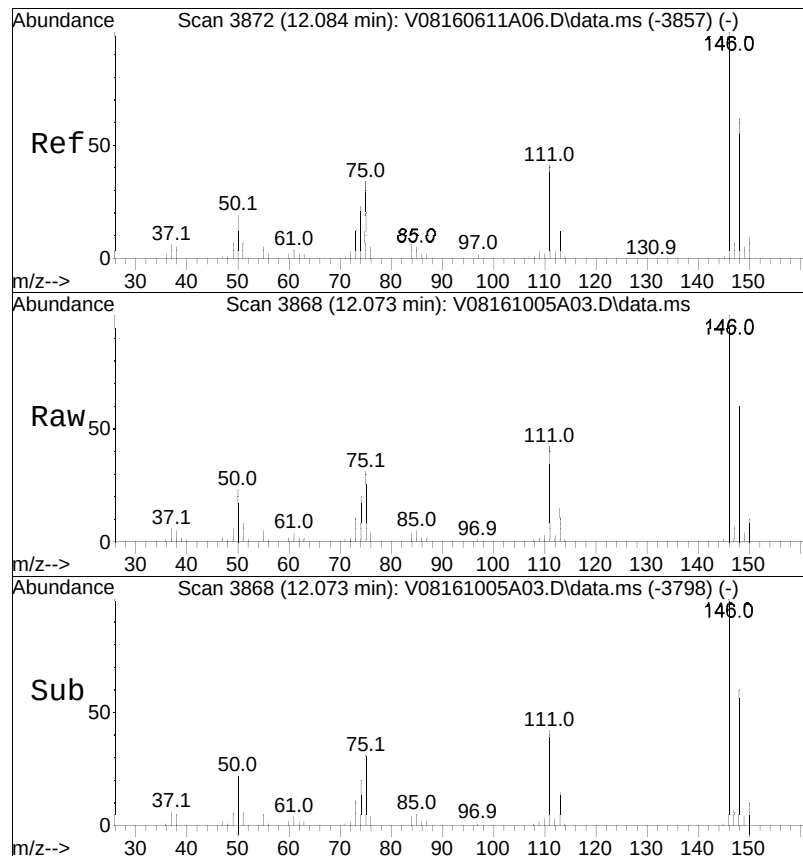




#99
 p-Isopropyltoluene
 Concen: 10.25 ug/L
 RT: 12.012 min Scan# 3846
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

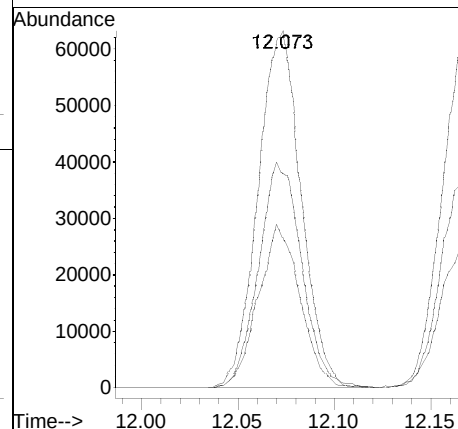
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.5	16.3	33.9
91	24.5	16.6	34.4

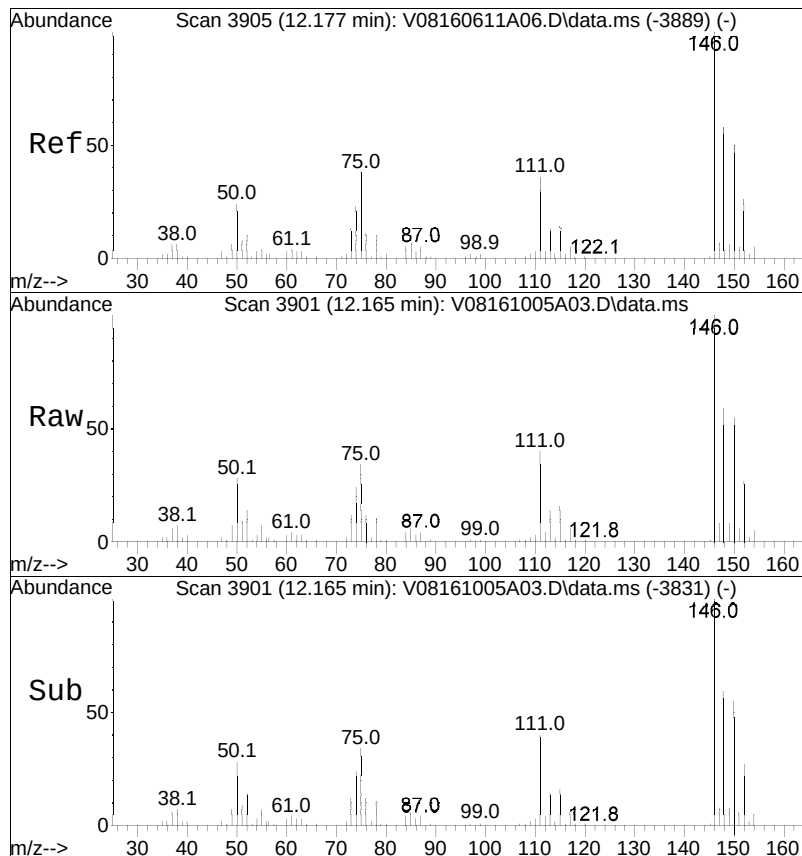




#100
 1,3-Dichlorobenzene
 Concen: 10.16 ug/L
 RT: 12.073 min Scan# 3868
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

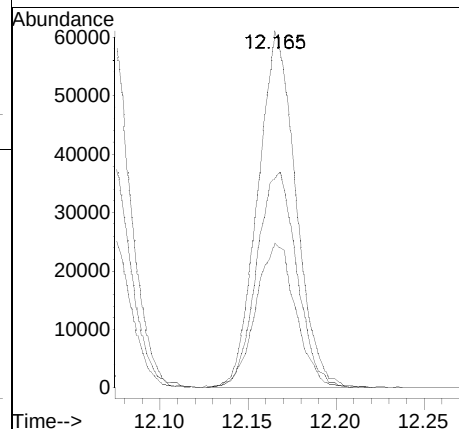
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.3	27.0	56.0
148	62.7	41.0	85.0

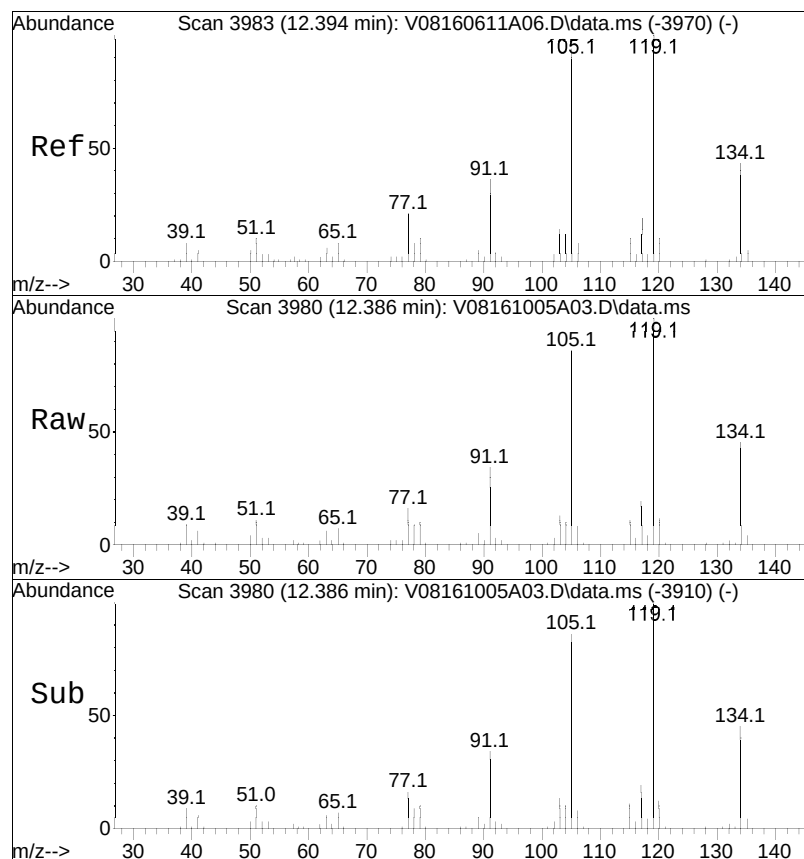




#101
 1,4-Dichlorobenzene
 Concen: 9.82 ug/L
 RT: 12.165 min Scan# 3901
 Delta R.T. -0.006 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

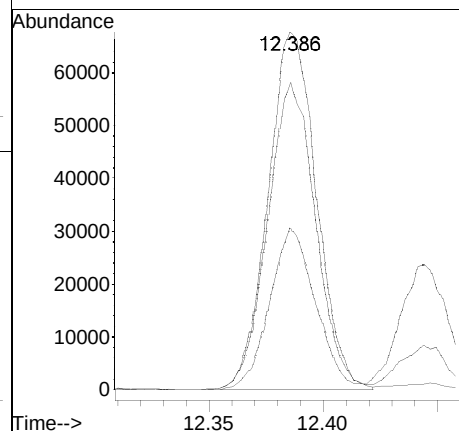
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	32.7	49.1
148	63.5	49.6	74.4

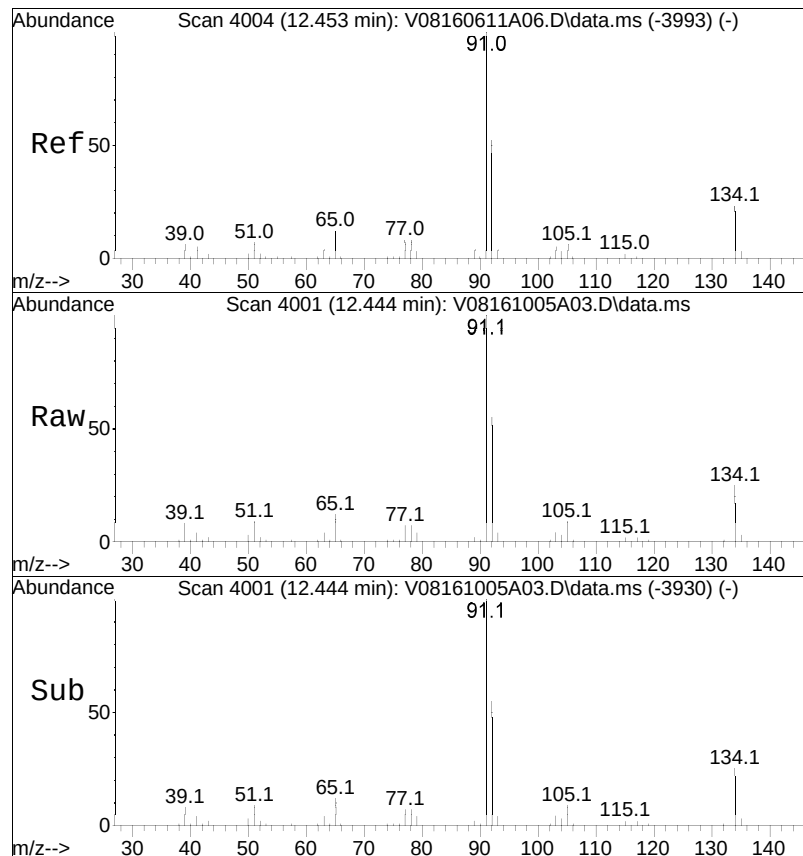




#102
 p-Diethylbenzene
 Concen: 8.96 ug/L
 RT: 12.386 min Scan# 3980
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

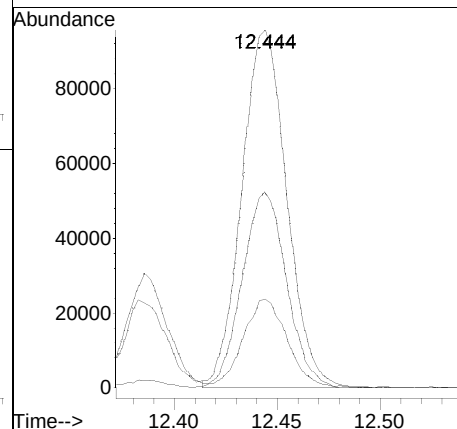
Tgt Ion	Ratio	Lower	Upper
119	100		
105	85.2	57.2	118.8
134	43.1	29.3	60.8

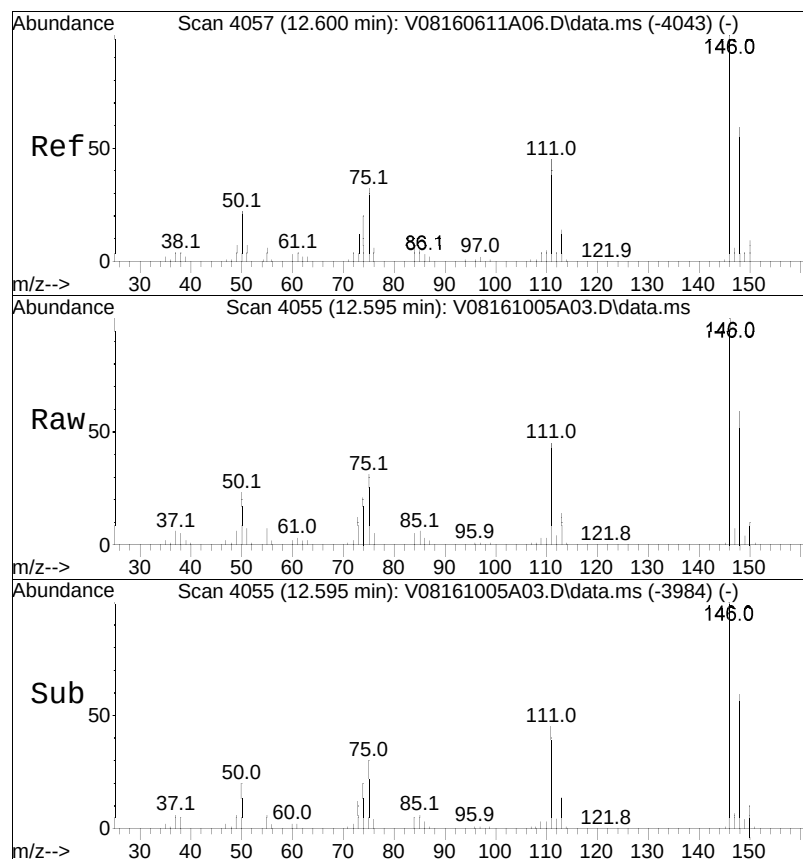




#103
 n-Butylbenzene
 Concen: 9.34 ug/L
 RT: 12.444 min Scan# 4001
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

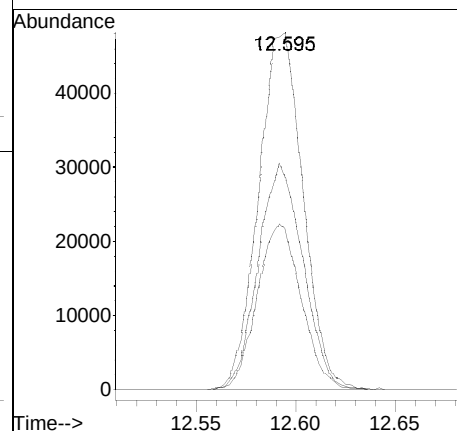
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	54.2	43.4	65.2	
134	24.2	19.8	29.6	

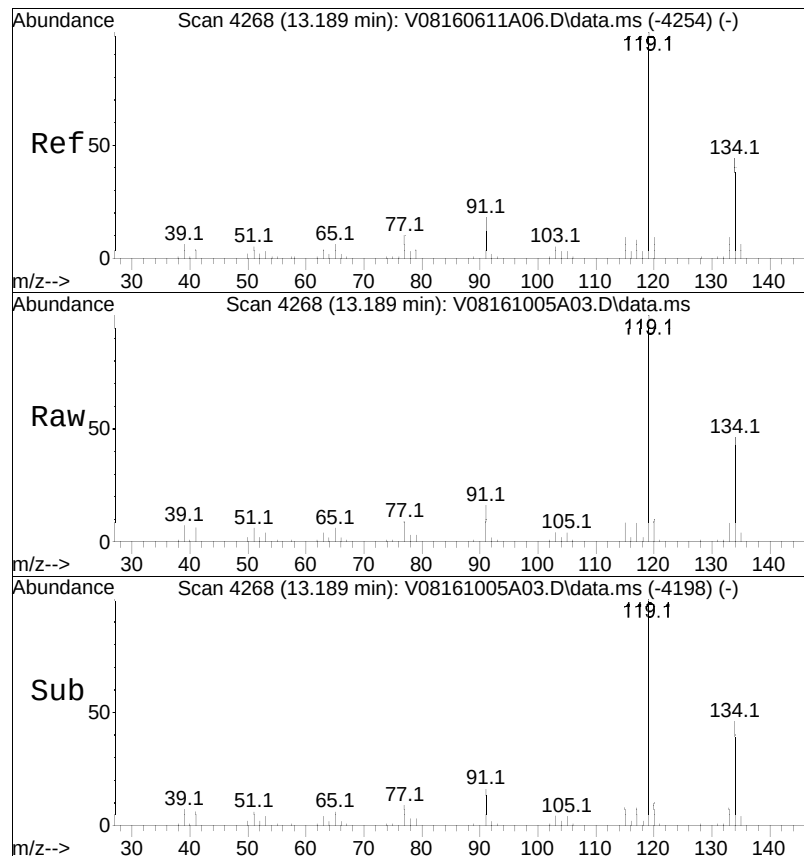




#104
 1,2-Dichlorobenzene
 Concen: 9.81 ug/L
 RT: 12.595 min Scan# 4055
 Delta R.T. -0.002 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

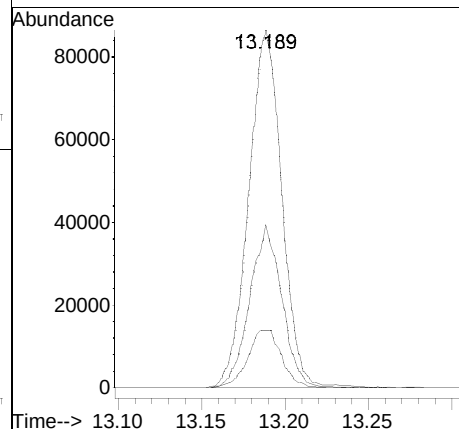
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.3	28.0	58.1
148	63.8	41.3	85.7

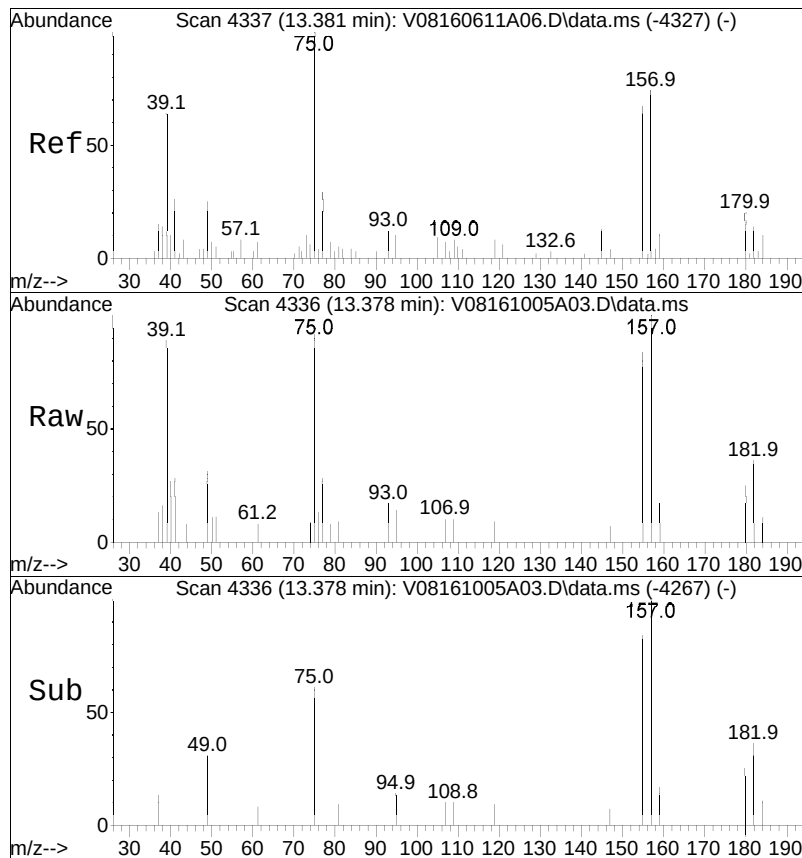




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 9.12 ug/L
 RT: 13.189 min Scan# 4268
 Delta R.T. -0.005 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

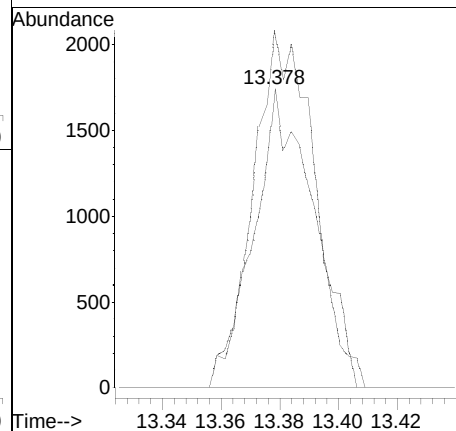
Tgt Ion	Ratio	Lower	Upper
119	100		
134	44.2	29.8	62.0
91	16.6	11.1	23.1

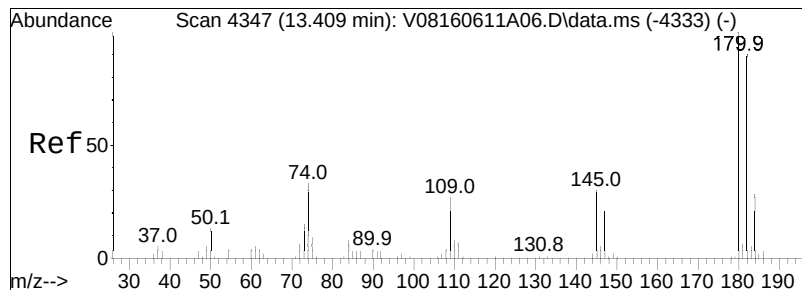




#106
 1,2-Dibromo-3-chloropropane
 Concen: 9.32 ug/L
 RT: 13.378 min Scan# 4336
 Delta R.T. -0.009 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

Tgt Ion:155 Resp: 2430
 Ion Ratio Lower Upper
 155 100
 157 124.5 100.8 151.2





#107

1,3,5-Trichlorobenzene

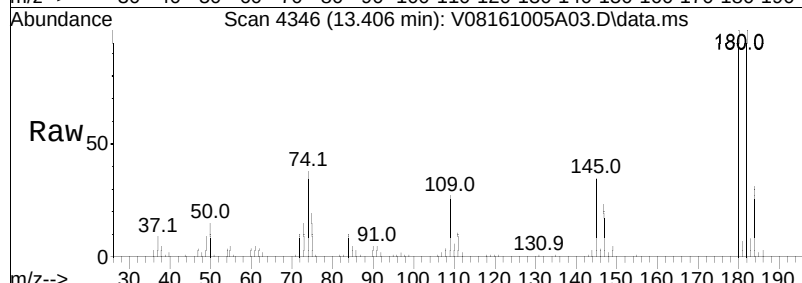
Concen: 10.06 ug/L

RT: 13.406 min Scan# 4346

Delta R.T. -0.006 min

Lab File: V08161005A03.D

Acq: 5 Oct 2016 10:24 am



Tgt Ion:180 Resp: 44854

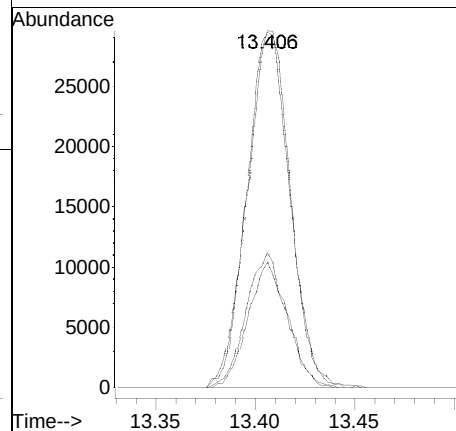
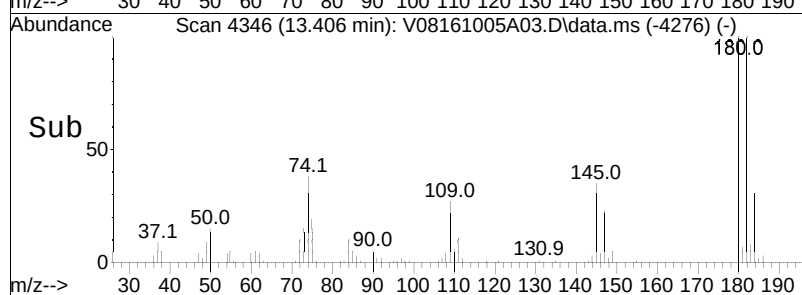
Ion Ratio Lower Upper

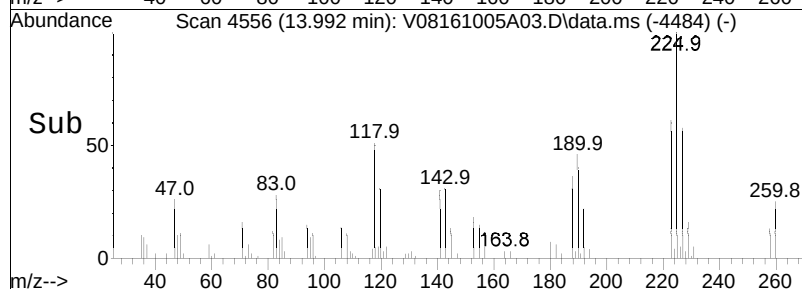
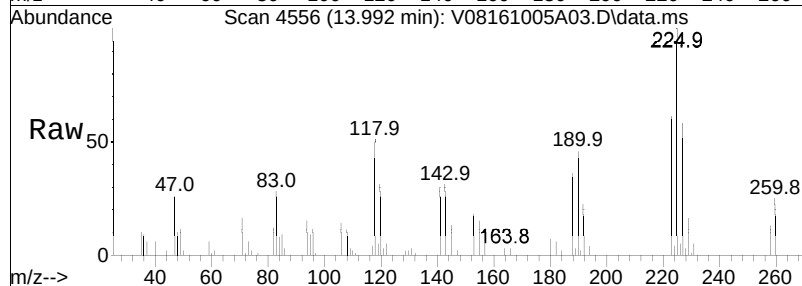
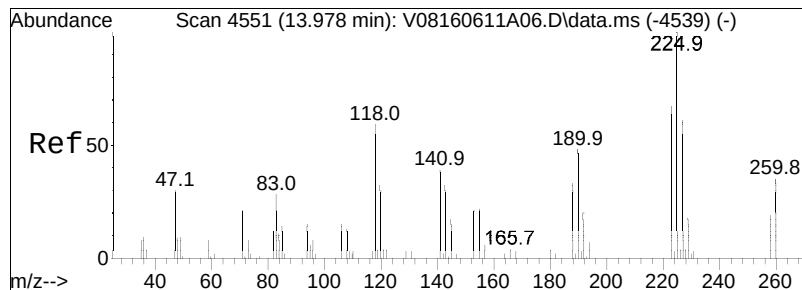
180 100

182 96.5 63.0 131.0

145 32.2 21.3 44.3

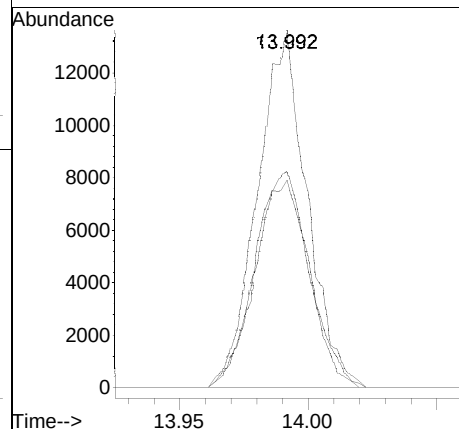
74 35.2 23.1 47.9

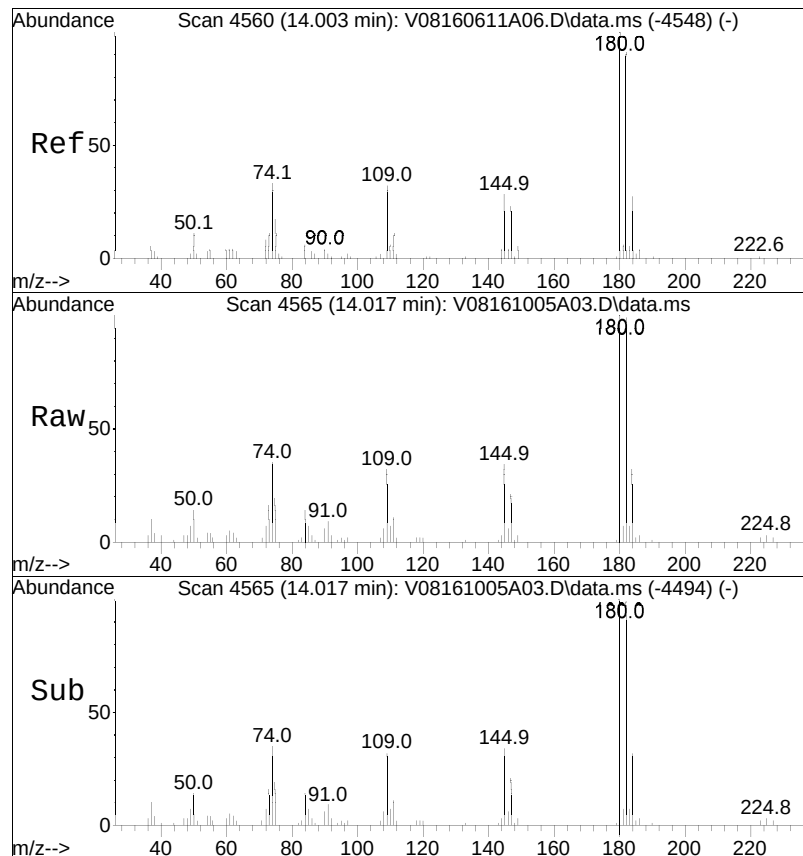




#108
 Hexachlorobutadiene
 Concen: 10.60 ug/L
 RT: 13.992 min Scan# 4556
 Delta R.T. -0.000 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

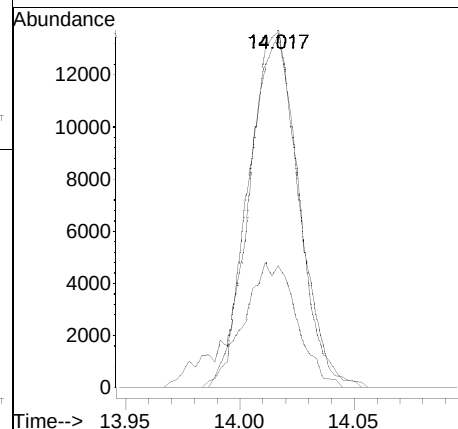
Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.5	50.6	76.0
227	65.4	50.2	75.2

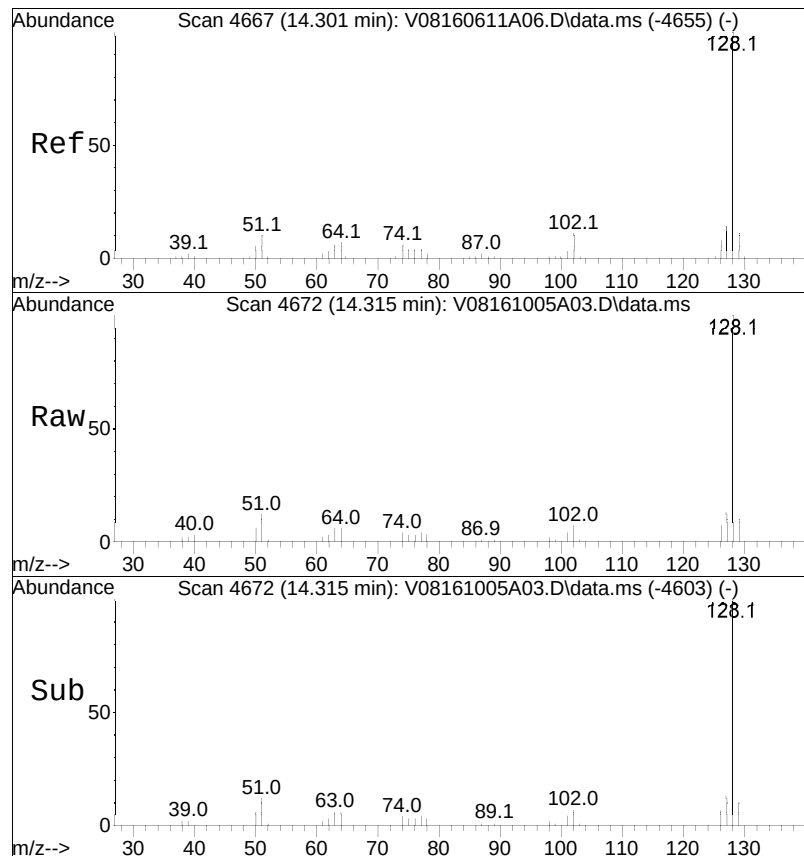




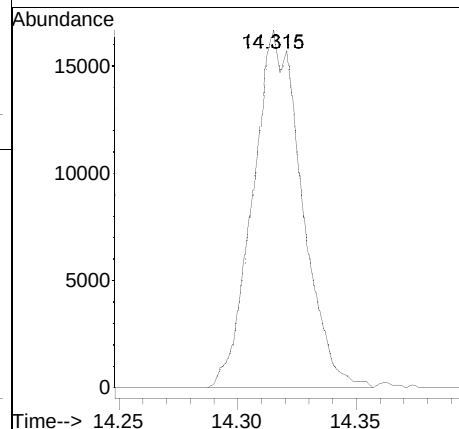
#109
 1,2,4-Trichlorobenzene
 Concen: 6.78 ug/L
 RT: 14.017 min Scan# 4565
 Delta R.T. -0.003 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am

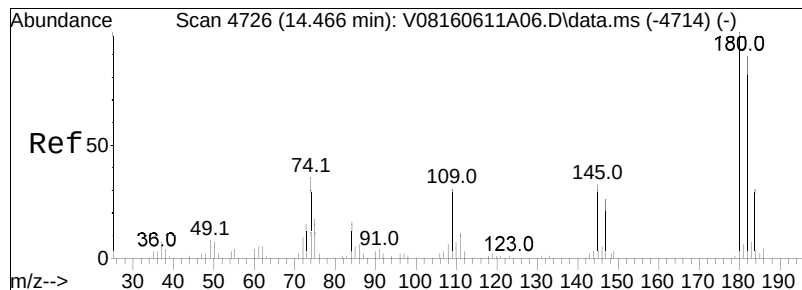
Tgt Ion:	180	Resp:	20861
Ion Ratio	Lower	Upper	
180	100		
182	95.8	79.3	118.9
145	42.7	26.2	39.4#





#110
 Naphthalene
 Concen: 6.06 ug/L
 RT: 14.315 min Scan# 4672
 Delta R.T. -0.009 min
 Lab File: V08161005A03.D
 Acq: 5 Oct 2016 10:24 am
 Tgt Ion:128 Resp: 23810





#111

1,2,3-Trichlorobenzene

Concen: 6.91 ug/L

RT: 14.483 min Scan# 4732

Delta R.T. -0.008 min

Lab File: V08161005A03.D

Acq: 5 Oct 2016 10:24 am

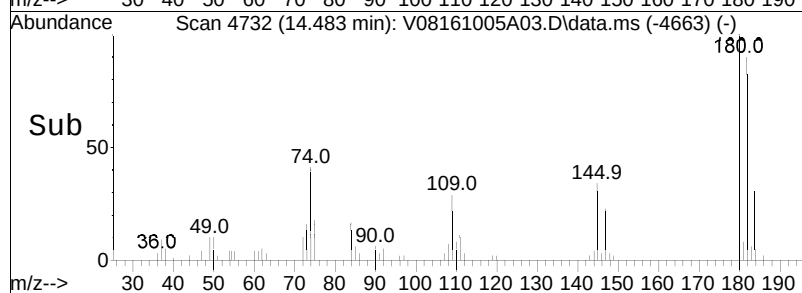
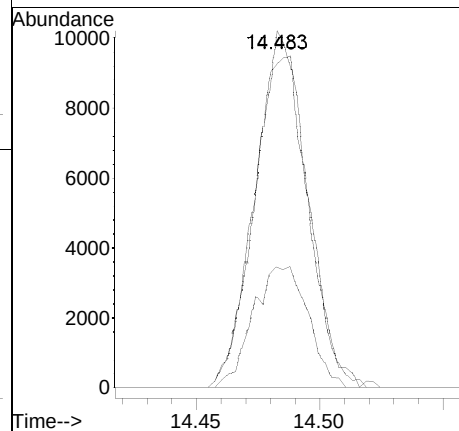
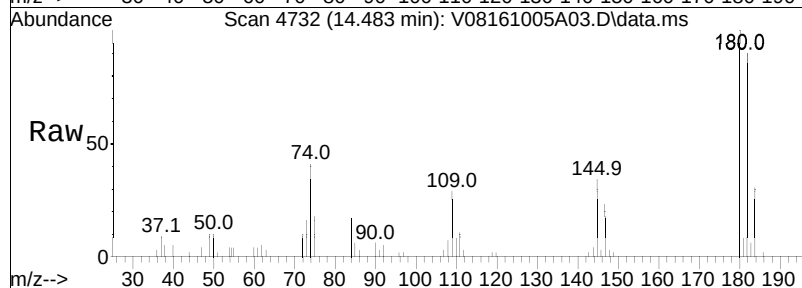
Tgt Ion:180 Resp: 14808

Ion Ratio Lower Upper

180 100

182 98.9 77.9 116.9

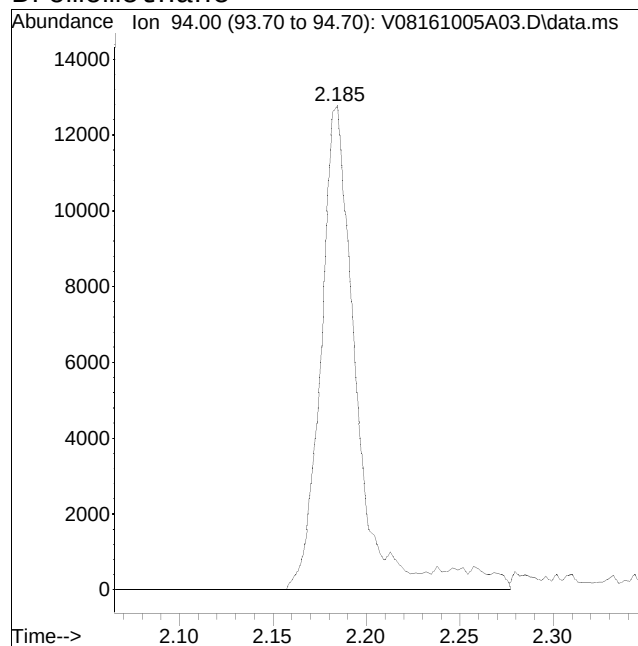
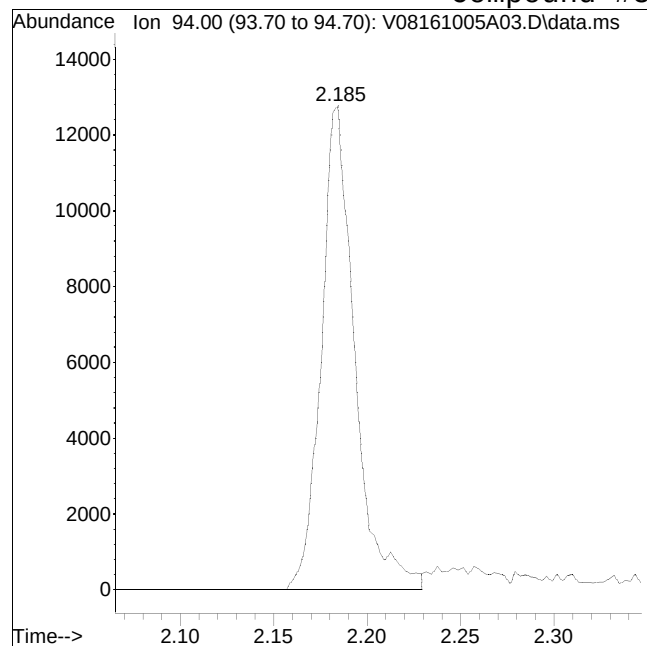
145 36.2 29.8 44.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A03.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 10:24 am Instrument : VOA 108
Sample : WG939161-4,31,10,10 Quant Date : 10/5/2016 10:59 am

Compound #5: Bromomethane



Original Peak Response = 15927

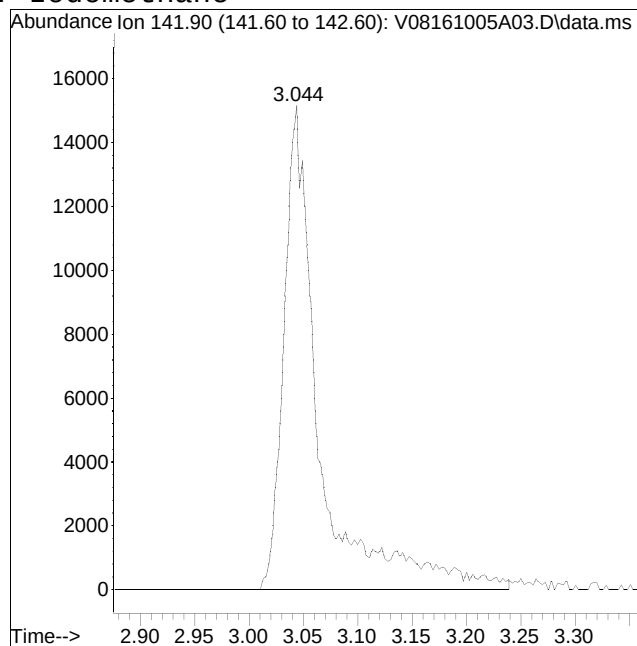
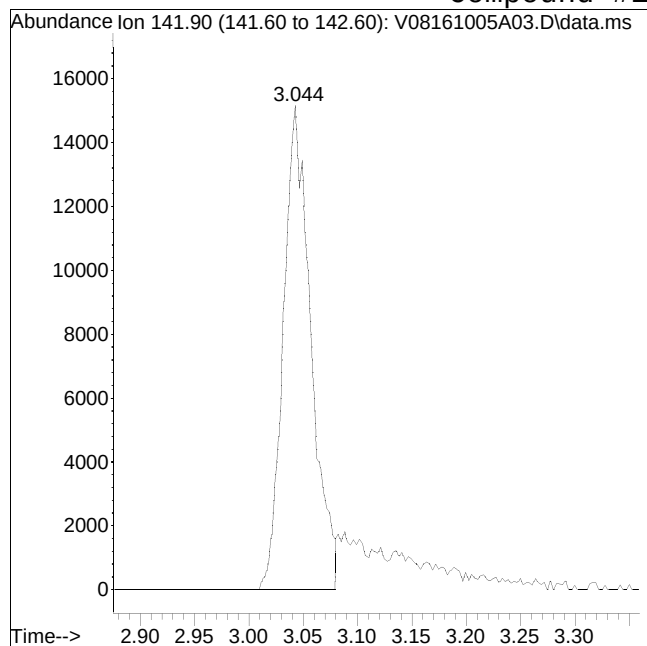
Manual Peak Response = 17260 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A03.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 10:24 am Instrument : VOA 108
Sample : WG939161-4,31,10,10 Quant Date : 10/5/2016 10:59 am

Compound #13: Iodomethane



Original Peak Response = 26705

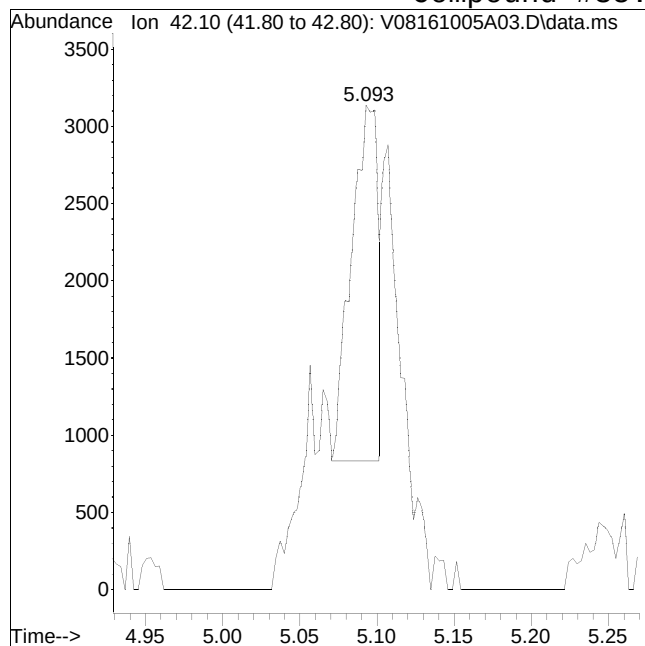
Manual Peak Response = 34798 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

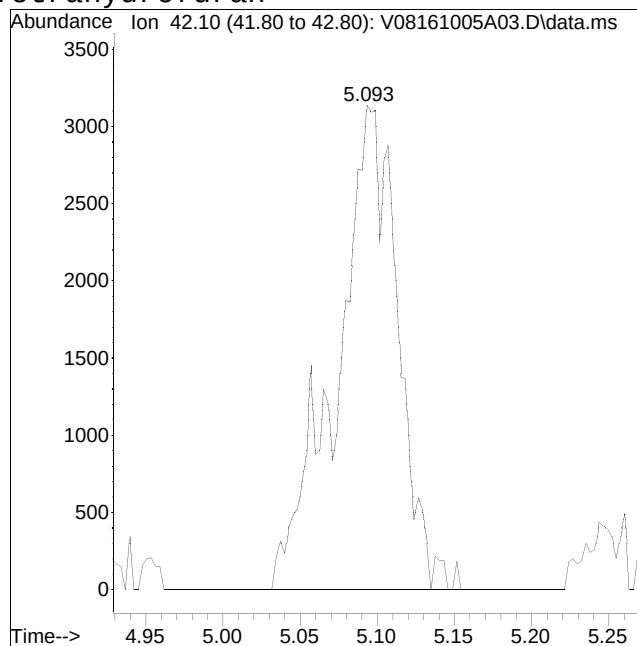
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161005A03.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 10:24 am Instrument : VOA 108
Sample : WG939161-4,31,10,10 Quant Date : 10/5/2016 10:59 am

Compound #35: Tetrahydrofuran



Original Peak Response = 2745

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

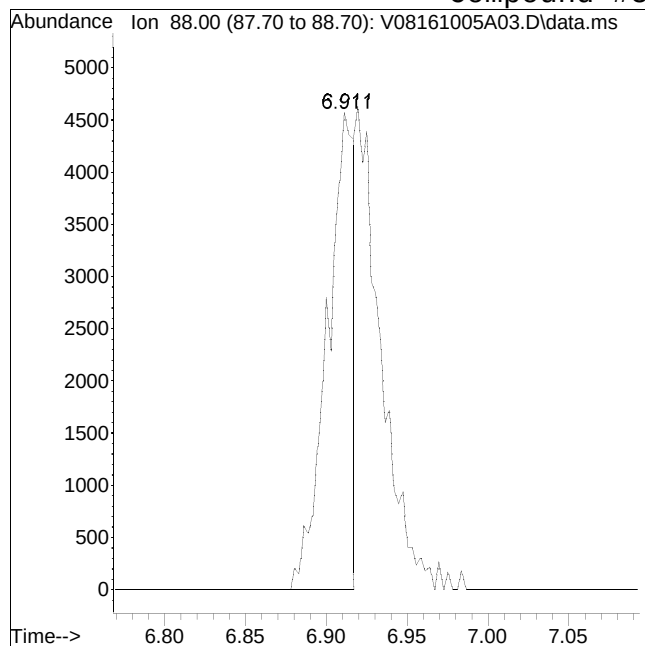


Manual Peak Response = 8691 M1

Manual Integration Report

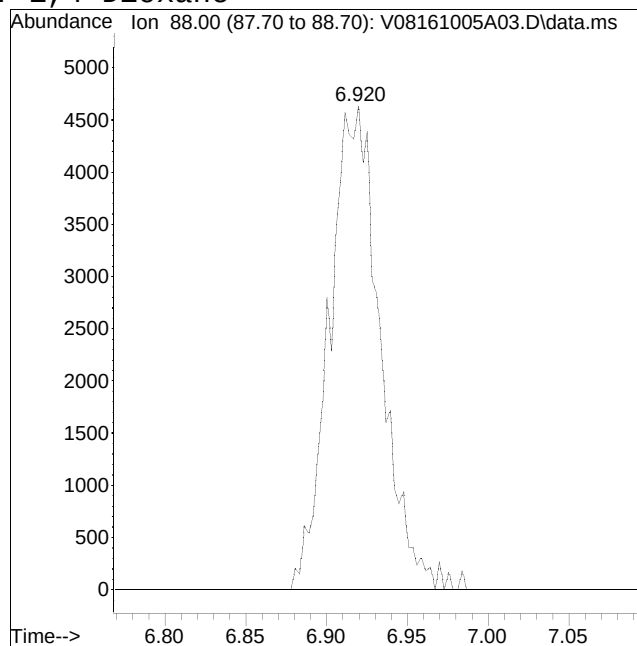
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A03.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 10:24 am Instrument : VOA 108
Sample : WG939161-4,31,10,10 Quant Date : 10/5/2016 10:59 am

Compound #57: 1,4-Dioxane



Original Peak Response = 5201

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

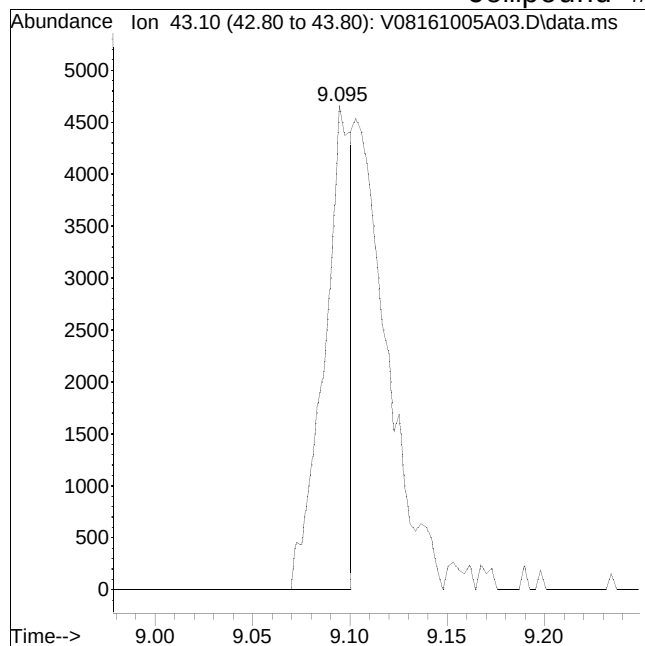


Manual Peak Response = 10167 M1

Manual Integration Report

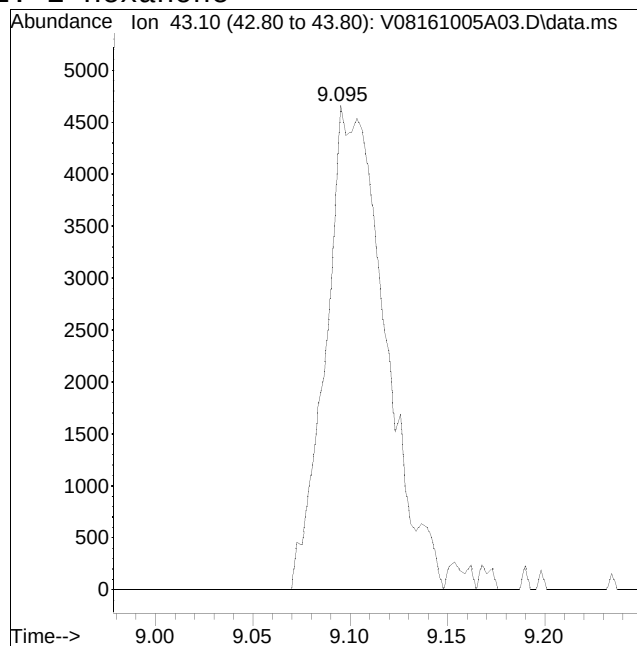
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A03.D Operator : VOA108:PD
Date Inj'd : 10/5/2016 10:24 am Instrument : VOA 108
Sample : WG939161-4,31,10,10 Quant Date : 10/5/2016 10:59 am

Compound #72: 2-Hexanone



Original Peak Response = 4449

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 10076 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A03.D
 Acq On : 6 Oct 2016 10:02 am
 Operator : VOA108:PD
 Sample : WG939161-11,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:39:35 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-Curve - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	243608	10.000	ug/L	0.00
Standard Area 1 = 246373			Recovery =	98.88%		
59) Chlorobenzene-d5	9.427	117	159466	10.000	ug/L	0.00
Standard Area 1 = 160139			Recovery =	99.58%		
79) 1,4-Dichlorobenzene-d4	12.149	152	68206	10.000	ug/L	0.00
Standard Area 1 = 67154			Recovery =	101.57%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	54317	9.096	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.96%		
43) 1,2-Dichloroethane-d4	5.643	65	49273	8.665	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.65%		
60) Toluene-d8	7.592	98	220699	10.271	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.71%		
83) 4-Bromofluorobenzene	10.933	95	69333	10.404	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.04%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.619	85	57125	9.522	ug/L	100
3) Chloromethane	1.794	50	86328	9.828	ug/L	99
4) Vinyl chloride	1.878	62	70943	8.605	ug/L	99
5) Bromomethane	2.182	94	19156M1	8.666	ug/L	
6) Chloroethane	2.305	64	41670	9.265	ug/L	94
7) Trichlorofluoromethane	2.436	101	86188	9.915	ug/L	99
8) Ethyl ether	2.720	74	16412	8.683	ug/L	95
10) 1,1-Dichloroethene	2.907	96	46478	9.637	ug/L	93
11) Carbon disulfide	2.932	76	151668	9.291	ug/L	99
12) Freon-113	2.946	101	42936	8.951	ug/L	77
13) Iodomethane	3.041	142	27074M1	6.595	ug/L	
14) Acrolein	3.230	56	3100	7.393	ug/L	86
15) Methylene chloride	3.454	84	49136	9.536	ug/L	97
17) Acetone	3.498	43	8431	10.396	ug/L	97
18) trans-1,2-Dichloroethene	3.599	96	60241	10.250	ug/L	95
19) Methyl acetate	3.618	43	17868	10.158	ug/L #	69
20) Methyl tert-butyl ether	3.693	73	74452	9.877	ug/L #	91
21) tert-Butyl alcohol	3.788	59	6546	45.911	ug/L #	95
22) Diisopropyl ether	4.045	45	204560	10.193	ug/L	96
23) 1,1-Dichloroethane	4.176	63	122130	9.847	ug/L	98
24) Halothane	4.226	117	41825	10.212	ug/L #	60

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A03.D
 Acq On : 6 Oct 2016 10:02 am
 Operator : VOA108:PD
 Sample : WG939161-11,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:39:35 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.232	53	9883	9.773	ug/L	# 88
26) Ethyl tert-butyl ether	4.385	59	134761	9.618	ug/L	92
27) Vinyl acetate	4.410	43	79543	10.545	ug/L	# 95
28) cis-1,2-Dichloroethene	4.681	96	59625	10.064	ug/L	95
29) 2,2-Dichloropropane	4.781	77	75285	10.216	ug/L	98
30) Bromochloromethane	4.870	128	20904	9.573	ug/L	87
31) Cyclohexane	4.862	56	123587	9.108	ug/L	92
32) Chloroform	4.943	83	101756	10.253	ug/L	98
33) Ethyl acetate	5.060	43	23180	9.620	ug/L	# 83
34) Carbon tetrachloride	5.068	117	84785	9.751	ug/L	100
35) Tetrahydrofuran	5.099	42	8008	9.114	ug/L	96
37) 1,1,1-Trichloroethane	5.135	97	98388	10.386	ug/L	# 96
39) 2-Butanone	5.247	43	9785M1	10.160	ug/L	
40) 1,1-Dichloropropene	5.258	75	75750	9.501	ug/L	99
41) Benzene	5.503	78	230219	9.874	ug/L	98
42) tert-Amyl methyl ether	5.606	73	78714	9.219	ug/L	# 90
44) 1,2-Dichloroethane	5.710	62	57919	9.650	ug/L	97
47) Methyl cyclohexane	6.069	83	77704	8.280	ug/L	95
48) Trichloroethene	6.086	95	62262	9.916	ug/L	98
50) Dibromomethane	6.527	93	19991	9.785	ug/L	95
51) 1,2-Dichloropropane	6.635	63	55669	9.297	ug/L	95
53) 2-Chloroethyl vinyl ether	0.000		0	N.D.	d	
54) Bromodichloromethane	6.702	83	62988	9.939	ug/L	# 98
57) 1,4-Dioxane	6.917	88	8819	455.510	ug/L	# 88
58) cis-1,3-Dichloropropene	7.388	75	60083	8.786	ug/L	98
61) Toluene	7.648	92	142690	10.413	ug/L	98
62) 4-Methyl-2-pentanone	8.097	58	5991	7.291	ug/L	# 74
63) Tetrachloroethene	8.083	166	54451	9.504	ug/L	99
65) trans-1,3-Dichloropropene	8.136	75	44623	9.709	ug/L	96
67) Ethyl methacrylate	8.325	69	23895	7.725	ug/L	87
68) 1,1,2-Trichloroethane	8.322	83	22500	10.367	ug/L	99
69) Chlorodibromomethane	8.526	129	34508	10.293	ug/L	99
70) 1,3-Dichloropropane	8.640	76	46426	9.905	ug/L	98
71) 1,2-Dibromoethane	8.799	107	23991	10.121	ug/L	96
72) 2-Hexanone	9.101	43	9657	7.505	ug/L	# 95
73) Chlorobenzene	9.446	112	139530	9.813	ug/L	100
74) Ethylbenzene	9.485	91	260232	10.225	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.533	131	44471	9.680	ug/L	97
76) p/m Xylene	9.672	106	201686	20.082	ug/L	96
77) o Xylene	10.219	106	183185	20.278	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A03.D
 Acq On : 6 Oct 2016 10:02 am
 Operator : VOA108:PD
 Sample : WG939161-11,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:39:35 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161006A\V08161006A02.D
 Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.286	104	291429	20.711	ug/L	97
80)	Bromoform	10.311	173	15341	10.566	ug/L	98
82)	Isopropylbenzene	10.606	105	240385	10.125	ug/L	98
84)	Bromobenzene	11.041	156	45388	10.189	ug/L	99
85)	n-Propylbenzene	11.094	91	274106	10.154	ug/L	97
86)	1,4-Dichlorobutane	11.117	55	56770	10.853	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.186	83	25482	10.848	ug/L	97
88)	4-Ethyltoluene	11.220	105	232214	10.374	ug/L	99
89)	2-Chlorotoluene	11.259	91	176665	10.914	ug/L	99
90)	1,3,5-Trimethylbenzene	11.320	105	189035	10.356	ug/L #	76
91)	1,2,3-Trichloropropane	11.326	75	20757	10.789	ug/L	97
92)	trans-1,4-Dichloro-2-b...	11.384	53	8036	10.516	ug/L #	95
93)	4-Chlorotoluene	11.443	91	167188	10.865	ug/L #	100
94)	tert-Butylbenzene	11.661	119	145768	8.244	ug/L	91
97)	1,2,4-Trimethylbenzene	11.739	105	169656	10.211	ug/L	99
98)	sec-Butylbenzene	11.853	105	207859	9.182	ug/L	98
99)	p-Isopropyltoluene	12.009	119	156594	9.126	ug/L	98
100)	1,3-Dichlorobenzene	12.070	146	90545	9.756	ug/L	99
101)	1,4-Dichlorobenzene	12.165	146	85292	9.521	ug/L	98
102)	p-Diethylbenzene	12.386	119	85903	8.148	ug/L	96
103)	n-Butylbenzene	12.444	91	121673	8.258	ug/L	100
104)	1,2-Dichlorobenzene	12.589	146	70541	9.708	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.189	119	103212	8.389	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.384	155	2196	8.821	ug/L	99
107)	1,3,5-Trichlorobenzene	13.409	180	40613	9.535	ug/L	99
108)	Hexachlorobutadiene	13.992	225	15793	9.661	ug/L	97
109)	1,2,4-Trichlorobenzene	14.014	180	19265	6.575	ug/L #	93
110)	Naphthalene	14.318	128	21946	5.871	ug/L	100
111)	1,2,3-Trichlorobenzene	14.485	180	13992	6.844	ug/L	99

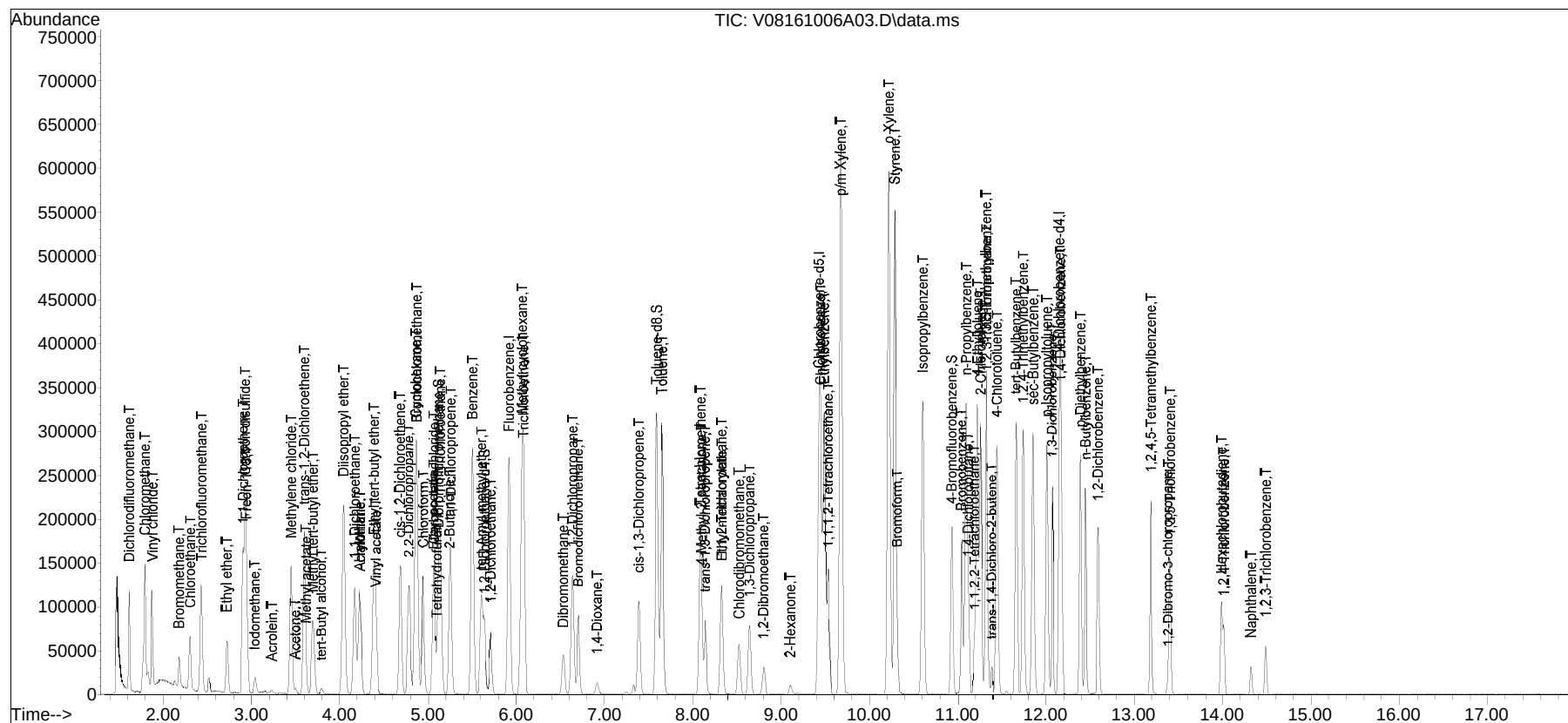
(#) = qualifier out of range (m) = manual integration (+) = signals summed

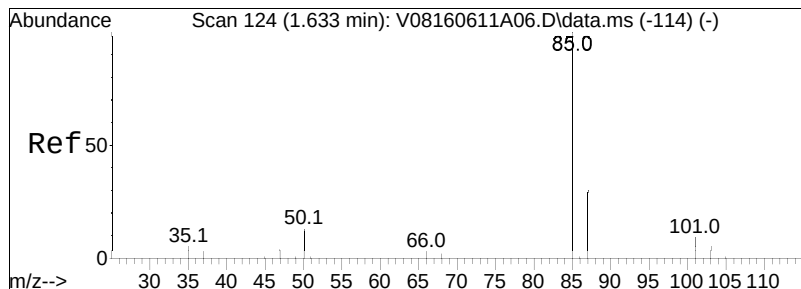
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161006A\
 Data File : V08161006A03.D
 Acq On : 6 Oct 2016 10:02 am
 Operator : VOA108:PD
 Sample : WG939161-11,31,10,10
 Misc : WG939161,ICAL12737
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:39:35 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161006A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

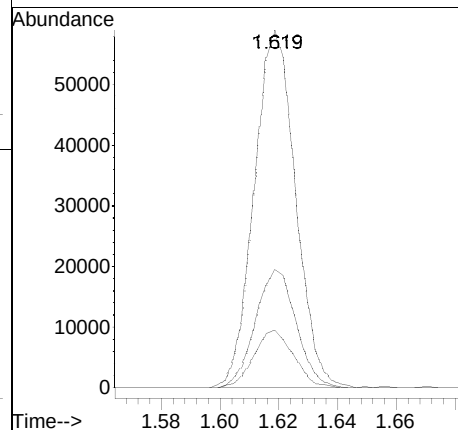
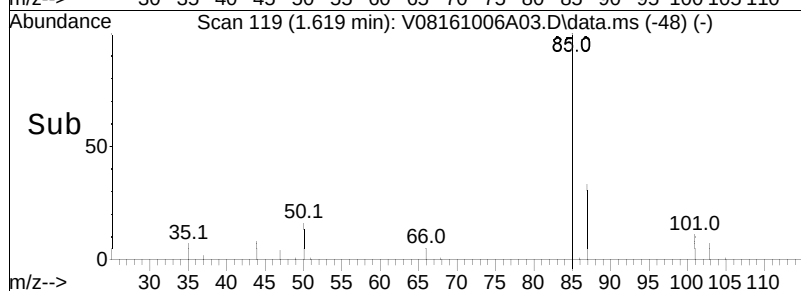
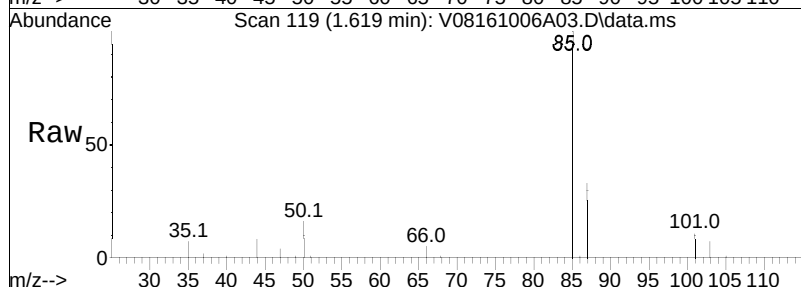
Sub List : 8260-Curve - Megamix plus Diox61006A\V08161006A02.D•

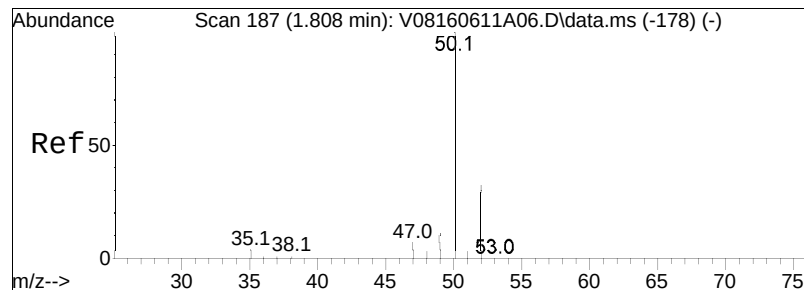




#2
 Dichlorodifluoromethane
 Concen: 9.52 ug/L
 RT: 1.619 min Scan# 119
 Delta R.T. -0.002 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

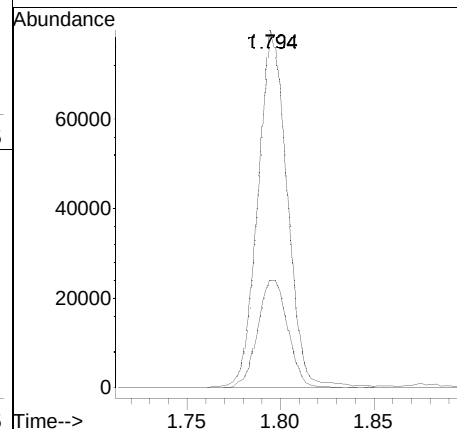
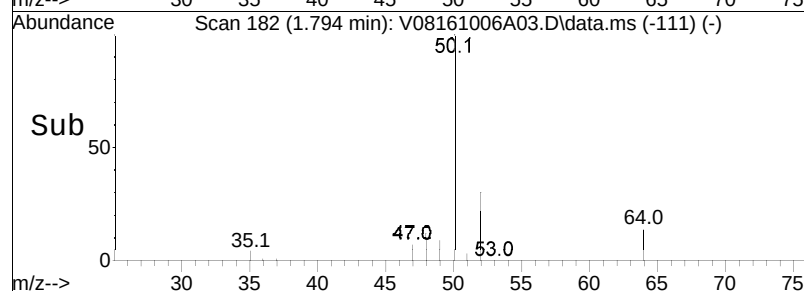
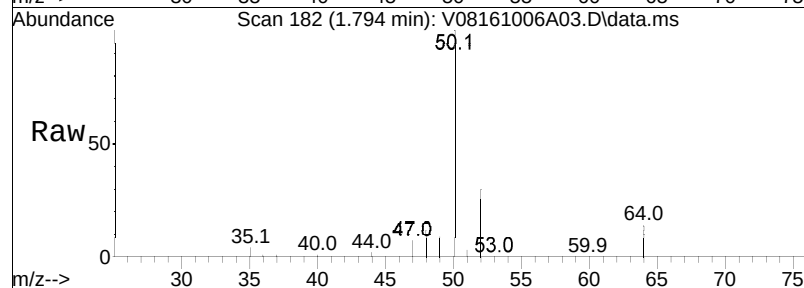
Tgt Ion:	85	Resp:	57125
Ion Ratio	Lower	Upper	
85	100		
87	32.7	21.4	44.4
50	15.6	10.0	20.8

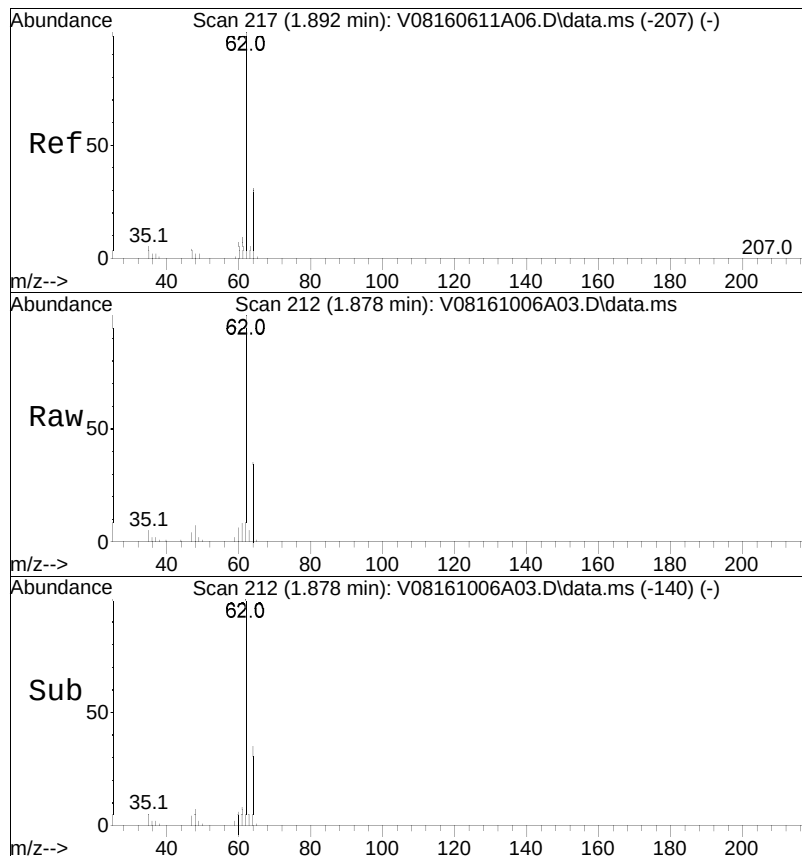




#3
 Chloromethane
 Concen: 9.83 ug/L
 RT: 1.794 min Scan# 182
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

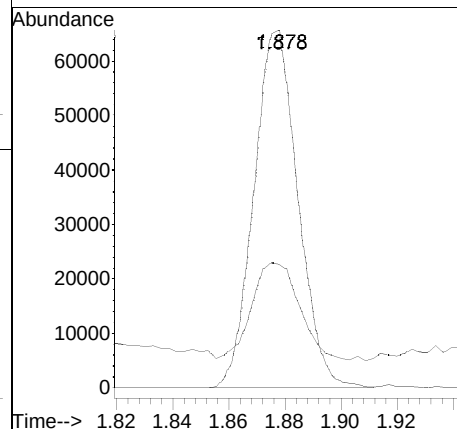
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.2	11.8	51.8

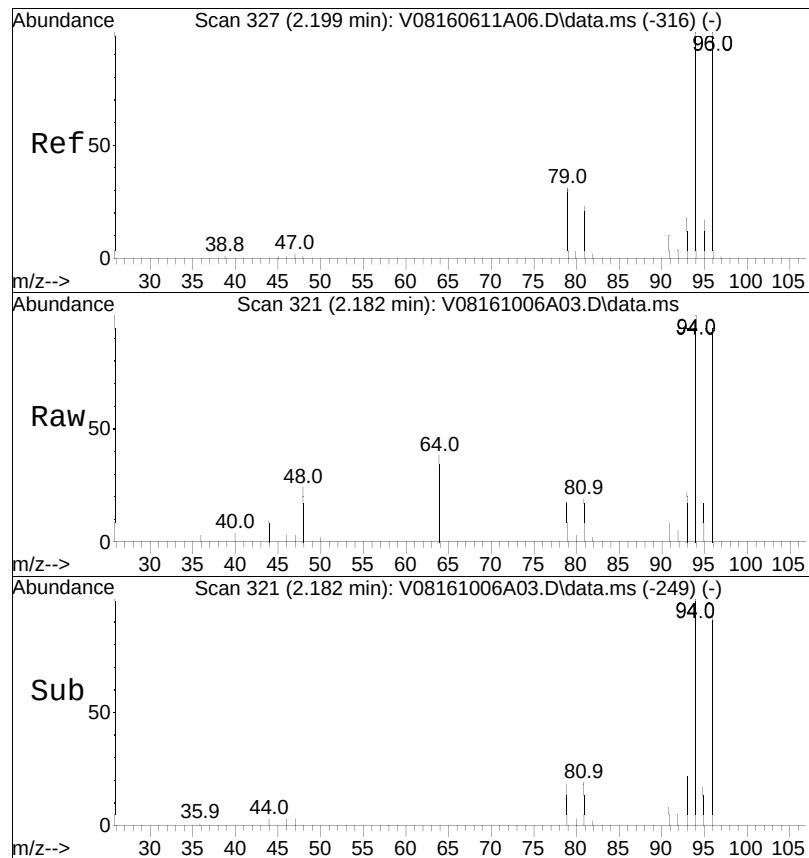




#4
 Vinyl chloride
 Concen: 8.61 ug/L
 RT: 1.878 min Scan# 212
 Delta R.T. -0.000 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

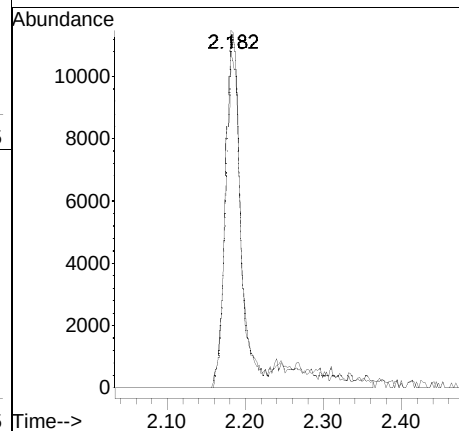
Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.2	9.7	49.7

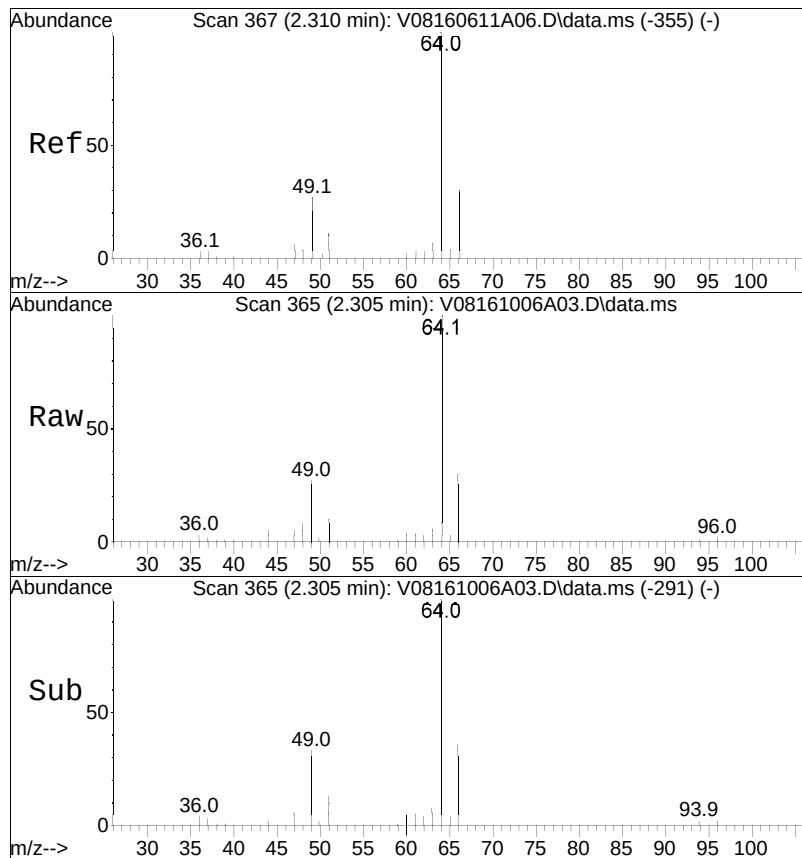




#5
 Bromomethane
 Concen: 8.67 ug/L M1
 RT: 2.182 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

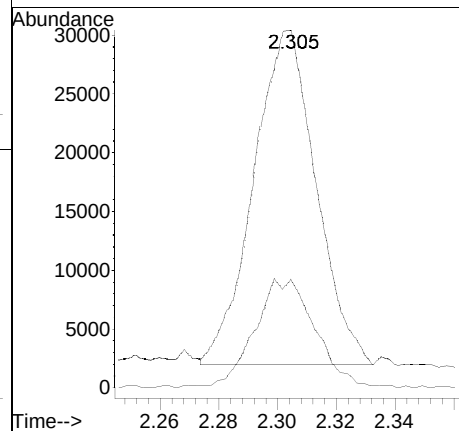
Tgt Ion	Ratio	Lower	Upper
94	100		
96	77.7	75.7	115.7

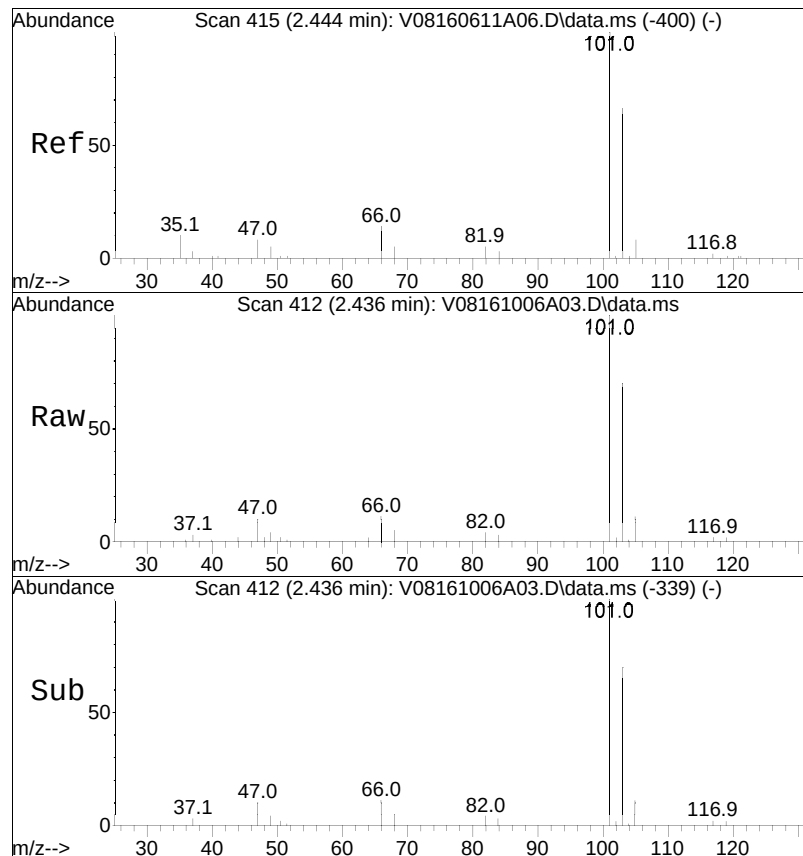




#6
 Chloroethane
 Concen: 9.26 ug/L
 RT: 2.305 min Scan# 365
 Delta R.T. 0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

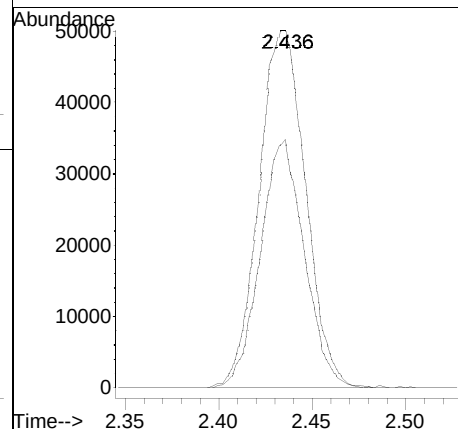
Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.1	9.1	49.1

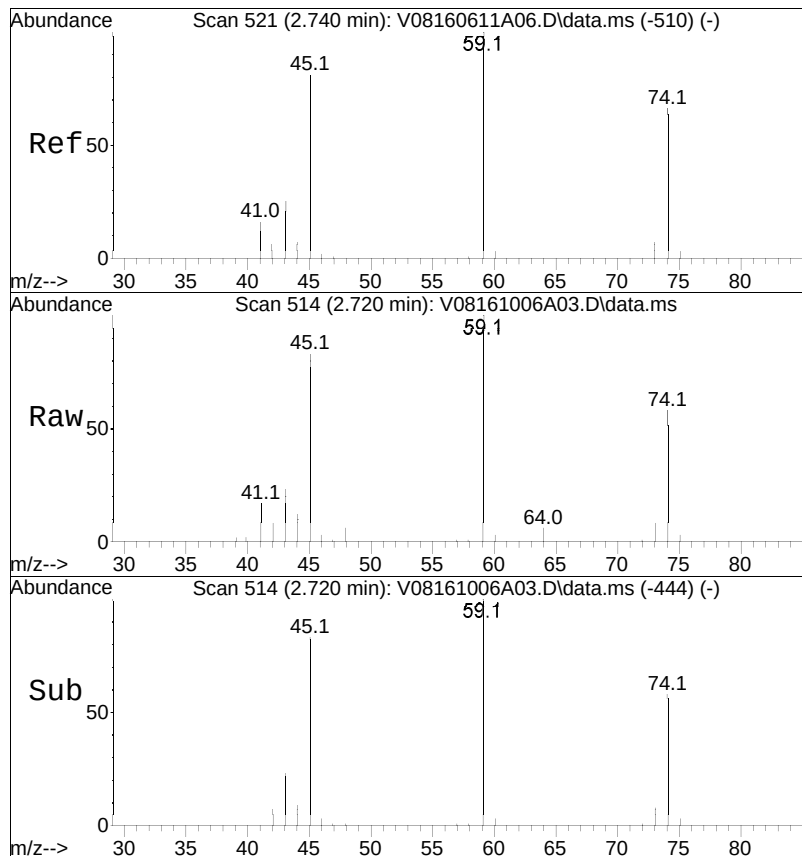




#7
 Trichlorofluoromethane
 Concen: 9.92 ug/L
 RT: 2.436 min Scan# 412
 Delta R.T. 0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

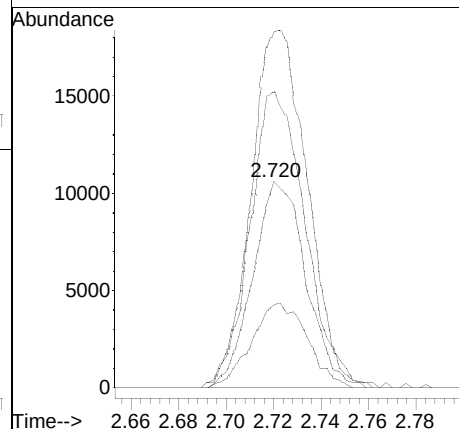
Tgt Ion	101	103	Ratio	Lower	Upper
Resp	86188				
101	100				
103	65.5		51.7	77.5	

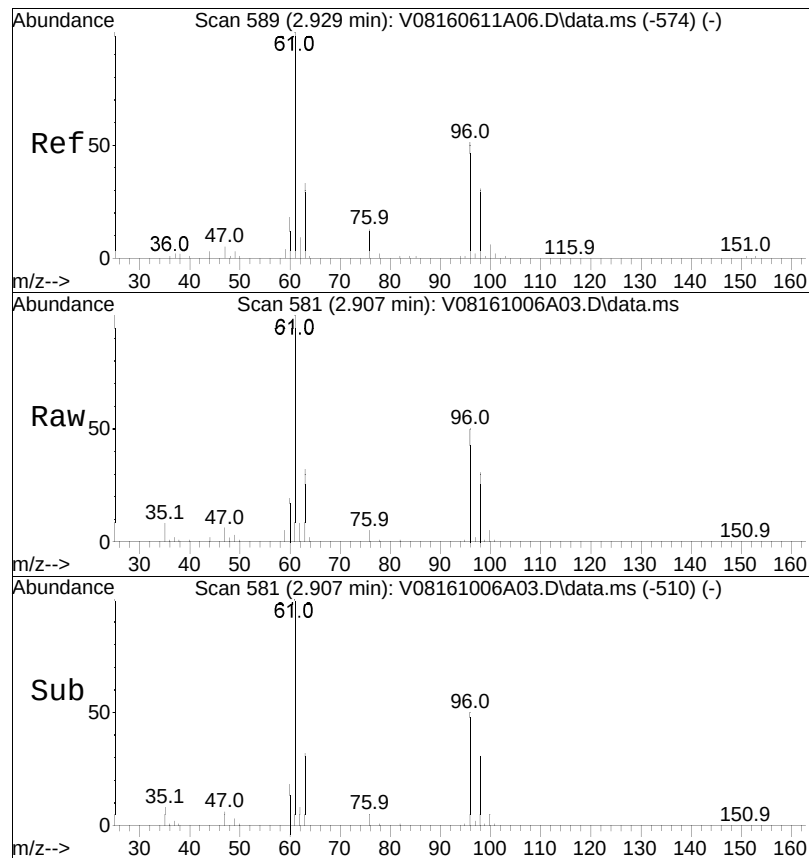




#8
 Ethyl ether
 Concen: 8.68 ug/L
 RT: 2.720 min Scan# 514
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

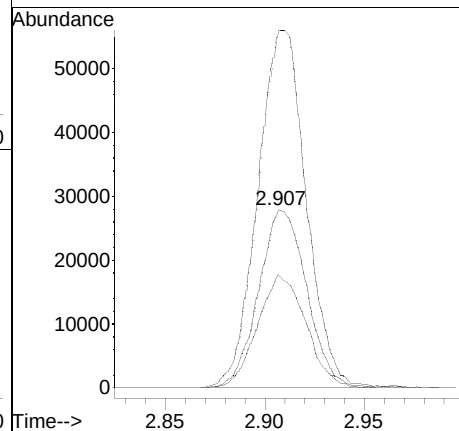
Tgt Ion:	74	Resp:	16412
Ion	Ratio	Lower	Upper
74	100		
59	184.0	126.0	261.8
45	148.4	99.2	206.0
43	43.3	26.7	55.4

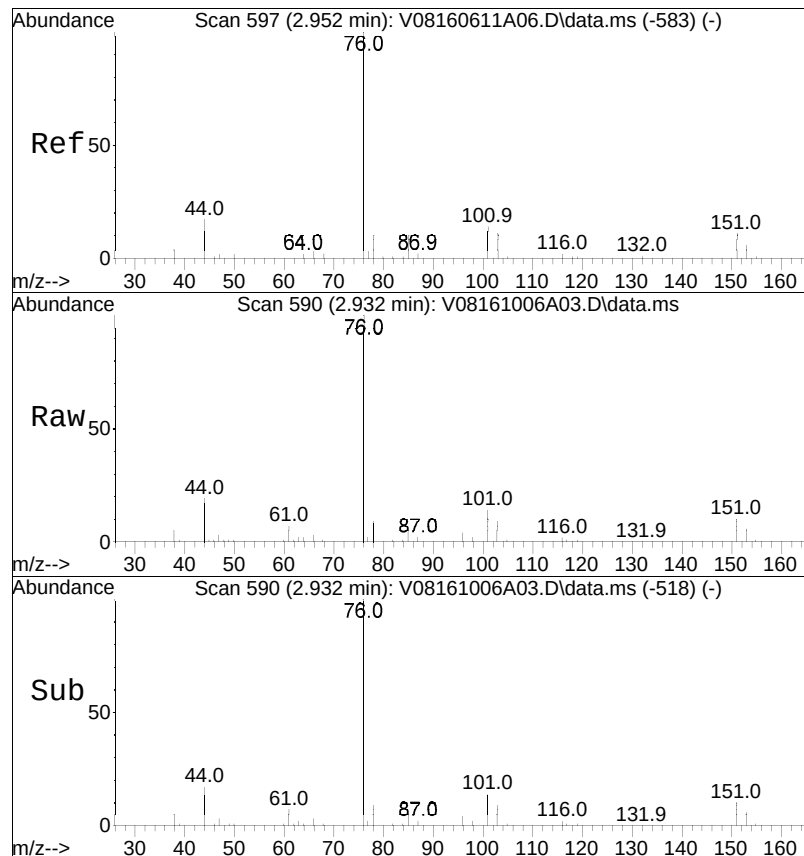




#10
 1,1-Dichloroethene
 Concen: 9.64 ug/L
 RT: 2.907 min Scan# 581
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

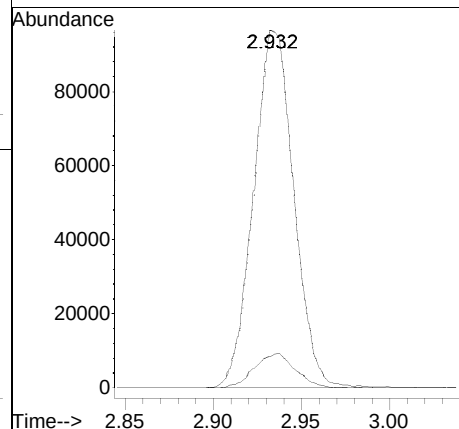
Tgt Ion	Ratio	Resp	Lower	Upper
96	100	46478		
61	201.7		171.2	256.8
63	63.9		52.6	78.8

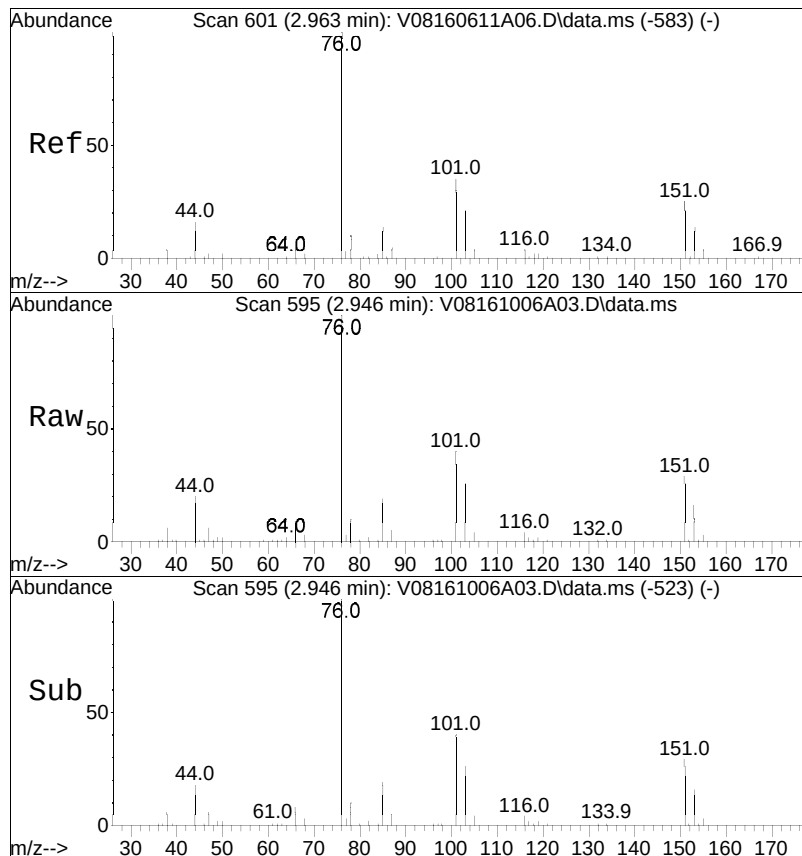




#11
Carbon disulfide
Concen: 9.29 ug/L
RT: 2.932 min Scan# 590
Delta R.T. 0.000 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

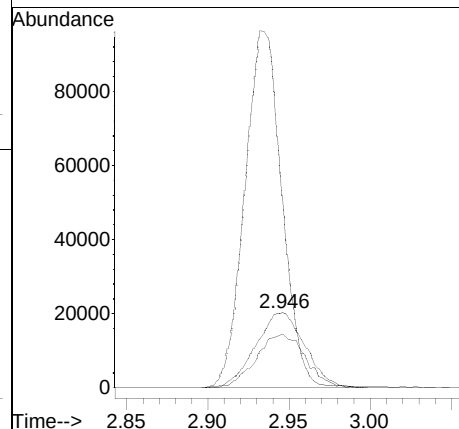
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.6	13.8

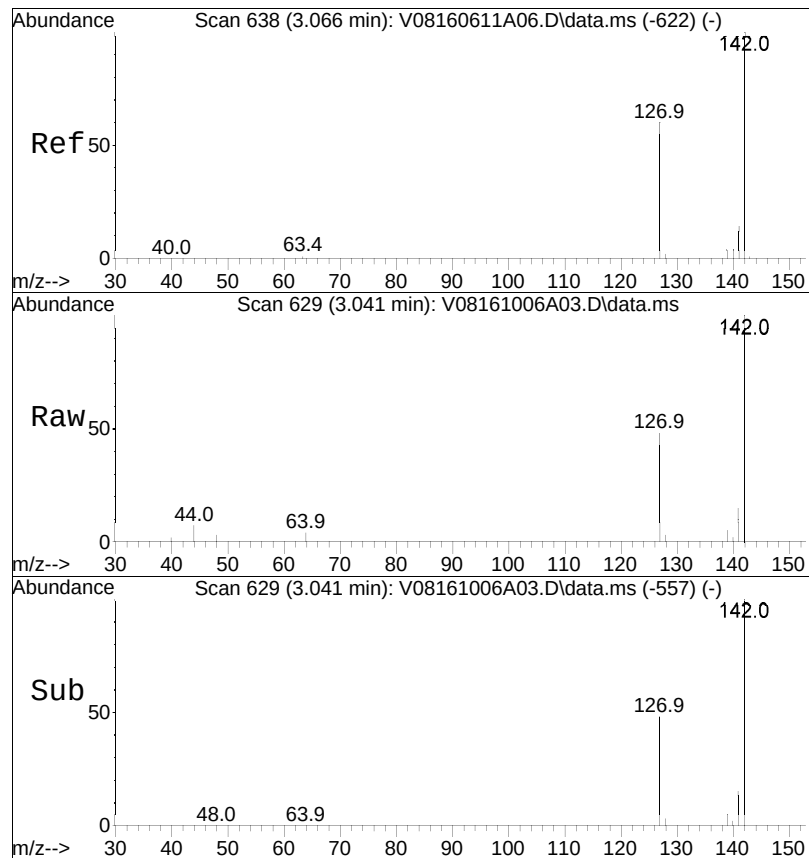




#12
 Freon-113
 Concen: 8.95 ug/L
 RT: 2.946 min Scan# 595
 Delta R.T. 0.000 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

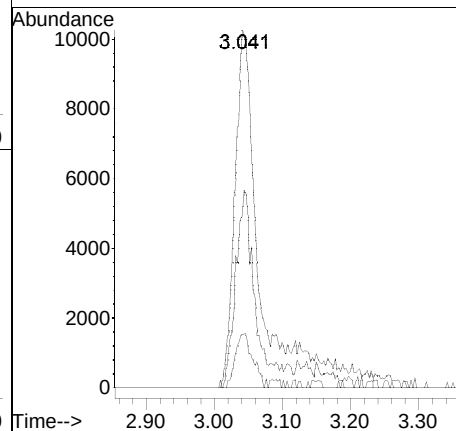
Tgt Ion:	101	Resp:	42936
Ion Ratio	Lower	Upper	
101	100		
151	71.4	60.4	90.6
76	353.2	240.1	360.1

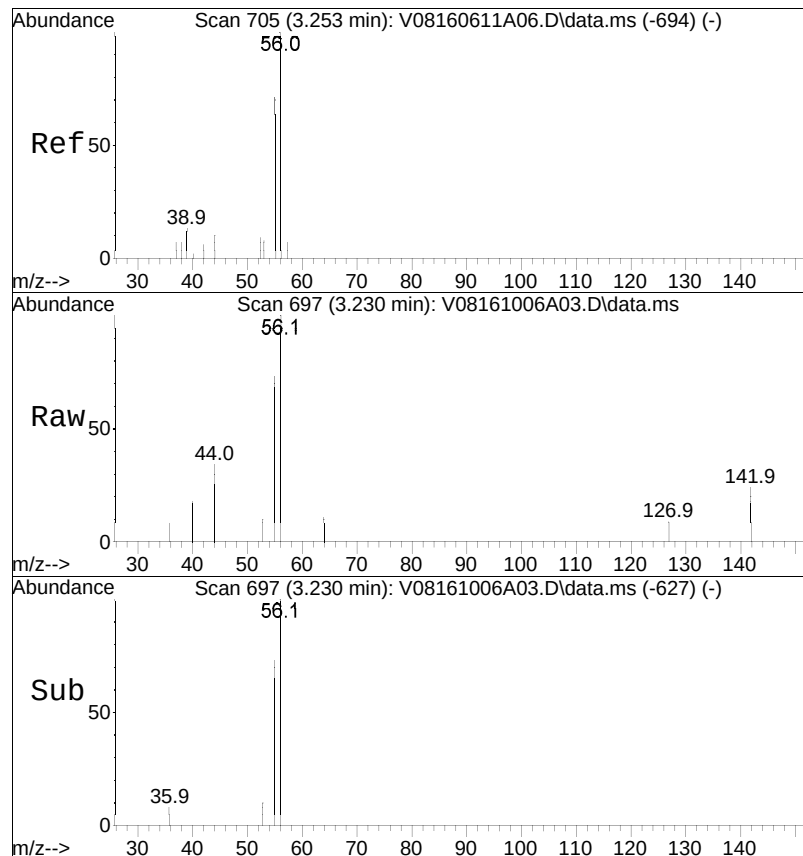




#13
 Iodomethane
 Concen: 6.60 ug/L M1
 RT: 3.041 min Scan# 629
 Delta R.T. -0.000 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

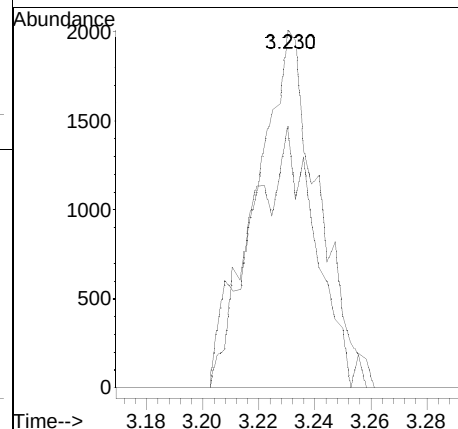
Tgt Ion:	142	Resp:	27074
Ion Ratio	Lower	Upper	
142	100		
127	37.7	33.2	69.0
141	10.1	9.4	19.6

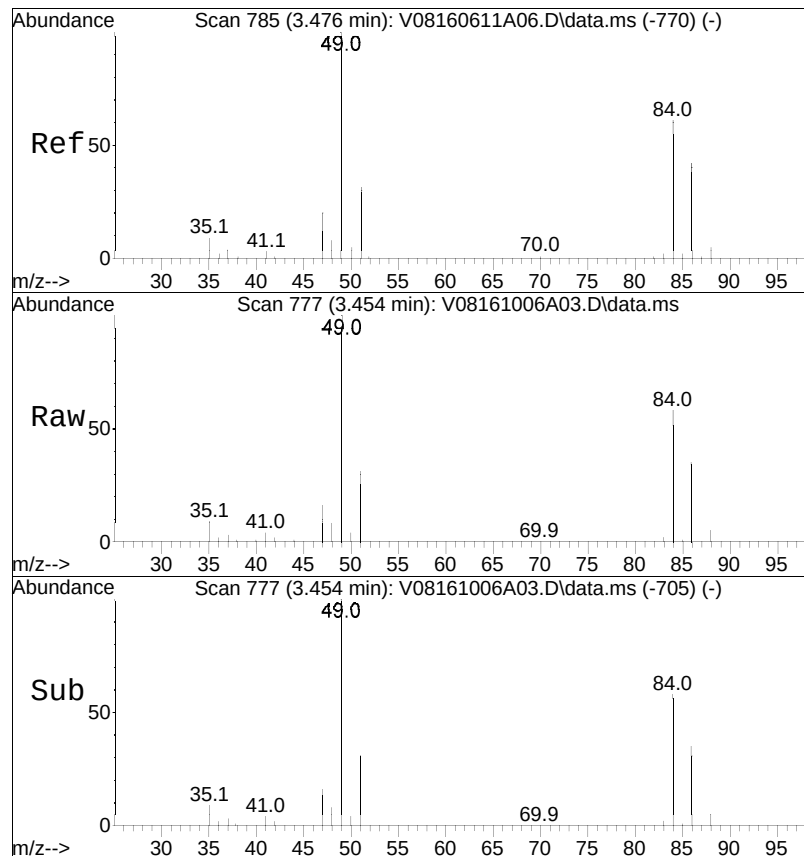




#14
 Acrolein
 Concen: 7.39 ug/L
 RT: 3.230 min Scan# 697
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

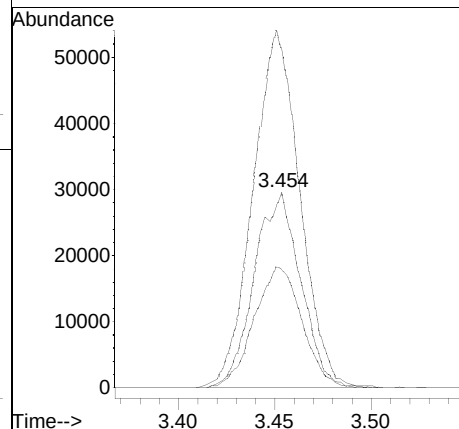
Tgt Ion	Ratio	Lower	Upper
56	100		
55	76.4	52.1	78.1

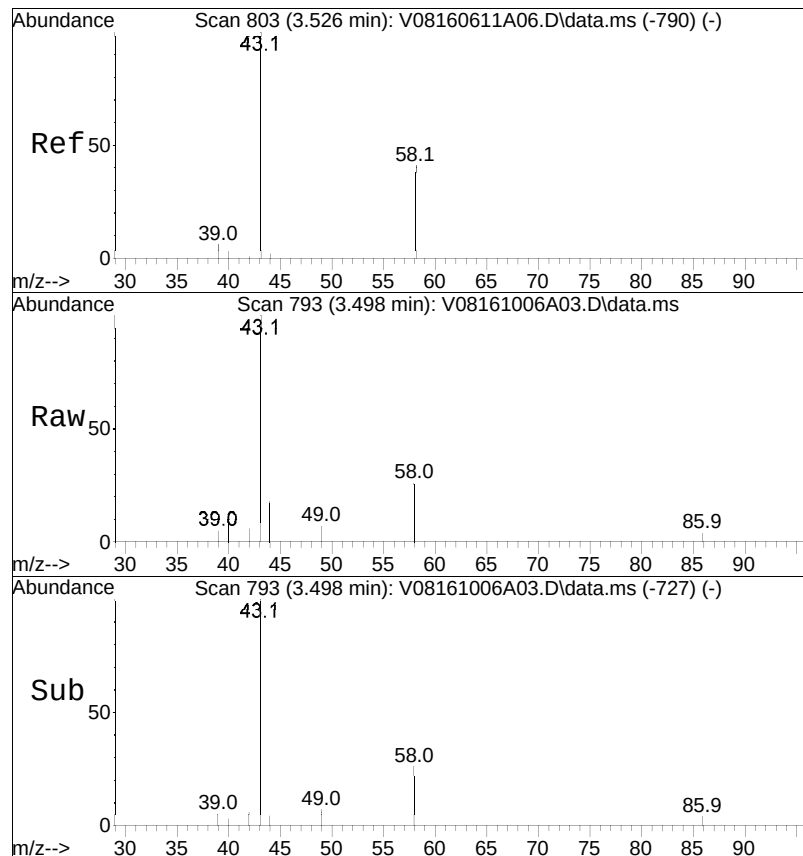




#15
Methylene chloride
Concen: 9.54 ug/L
RT: 3.454 min Scan# 777
Delta R.T. -0.000 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

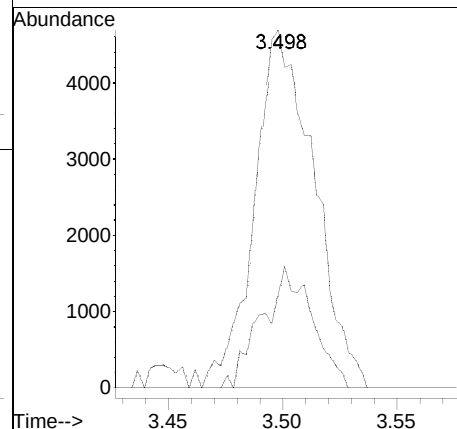
Tgt Ion:	84	Resp:	49136
Ion Ratio	Lower	Upper	
84	100		
86	64.0	41.7	86.7
49	184.7	124.3	258.1

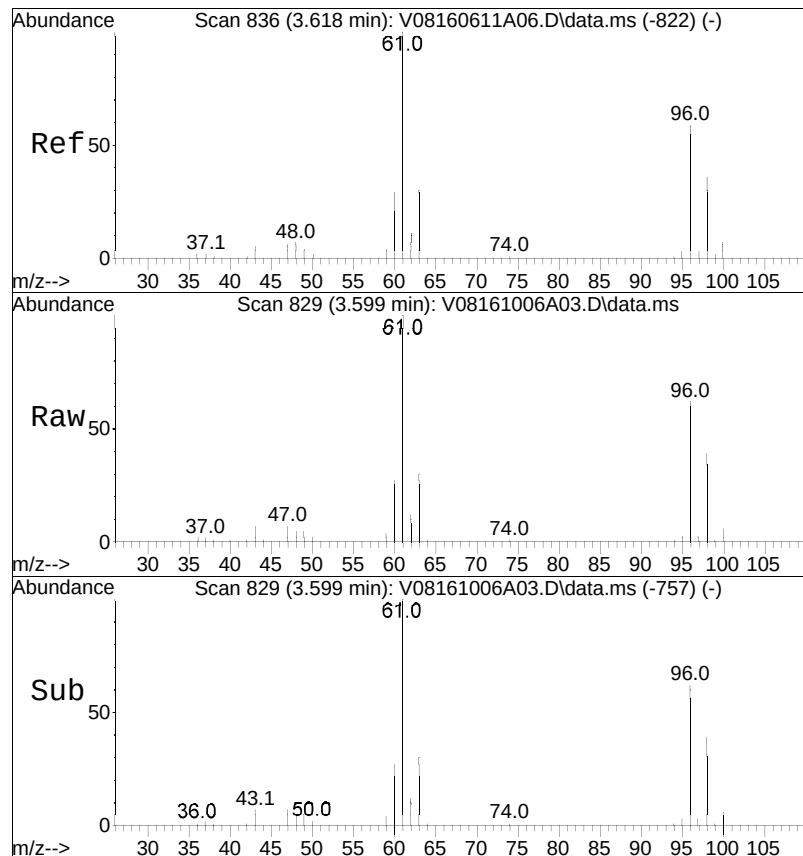




#17
 Acetone
 Concen: 10.40 ug/L
 RT: 3.498 min Scan# 793
 Delta R.T. -0.017 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

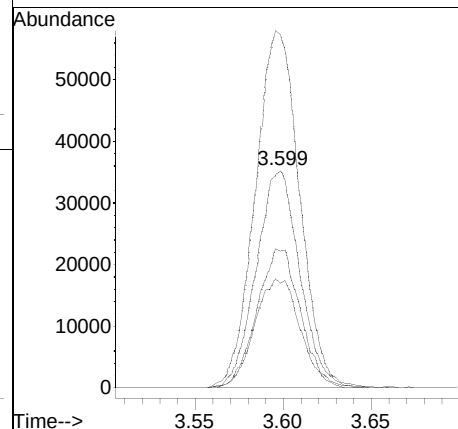
Tgt Ion:	43	58	Ratio	100	28.8	Resp:	8431	Lower	Upper
								24.5	36.7

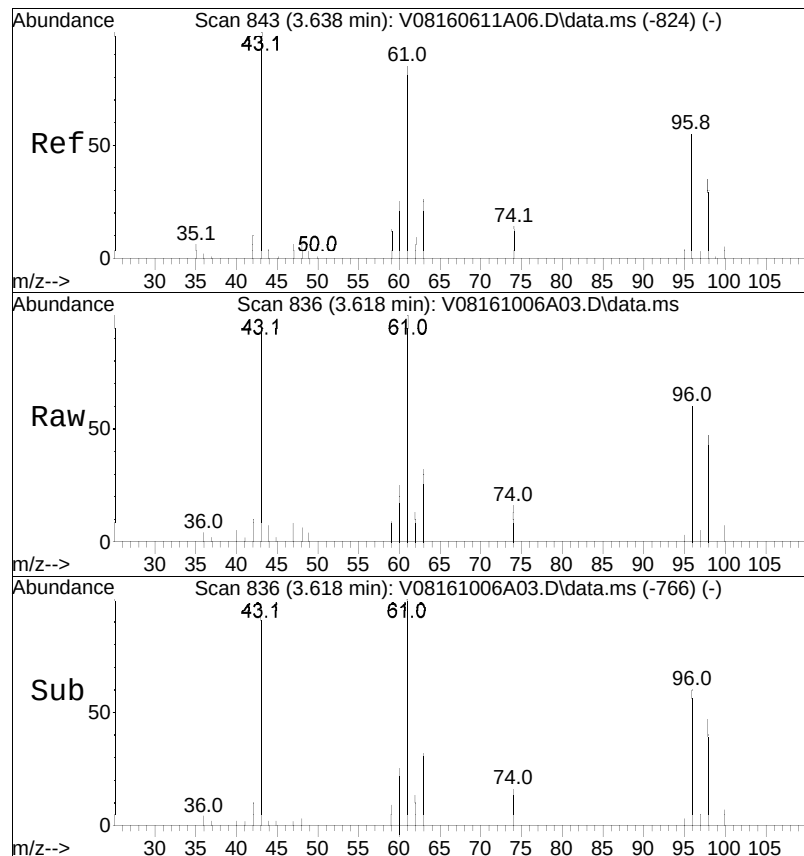




#18
trans-1,2-Dichloroethene
Concen: 10.25 ug/L
RT: 3.599 min Scan# 829
Delta R.T. -0.000 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

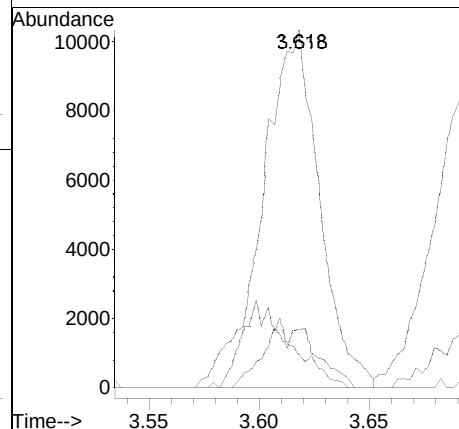
Tgt Ion:	96	Resp:	60241
Ion Ratio	Lower	Upper	
96	100		
61	166.5	114.1	236.9
98	64.2	42.1	87.3
63	52.2	36.1	74.9

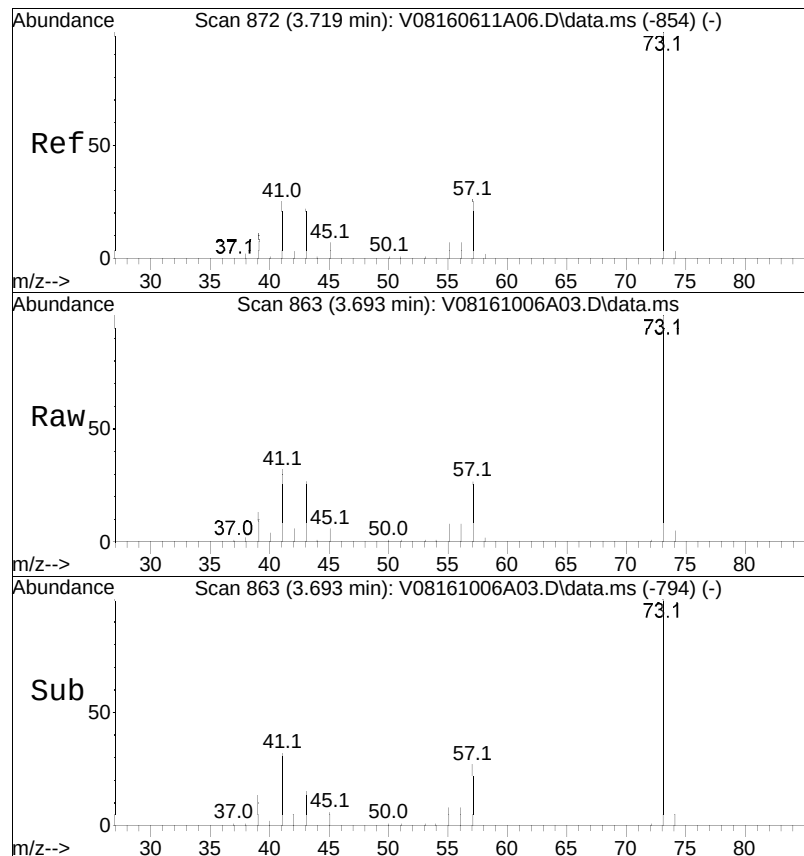




#19
 Methyl acetate
 Concen: 10.16 ug/L
 RT: 3.618 min Scan# 836
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

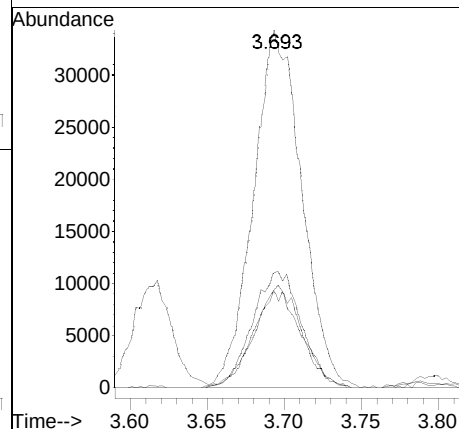
Tgt Ion:	43	Resp:	17868
Ion Ratio	Lower	Upper	
43	100		
74	8.9	6.5	9.7
59	0.0	15.6	23.4#

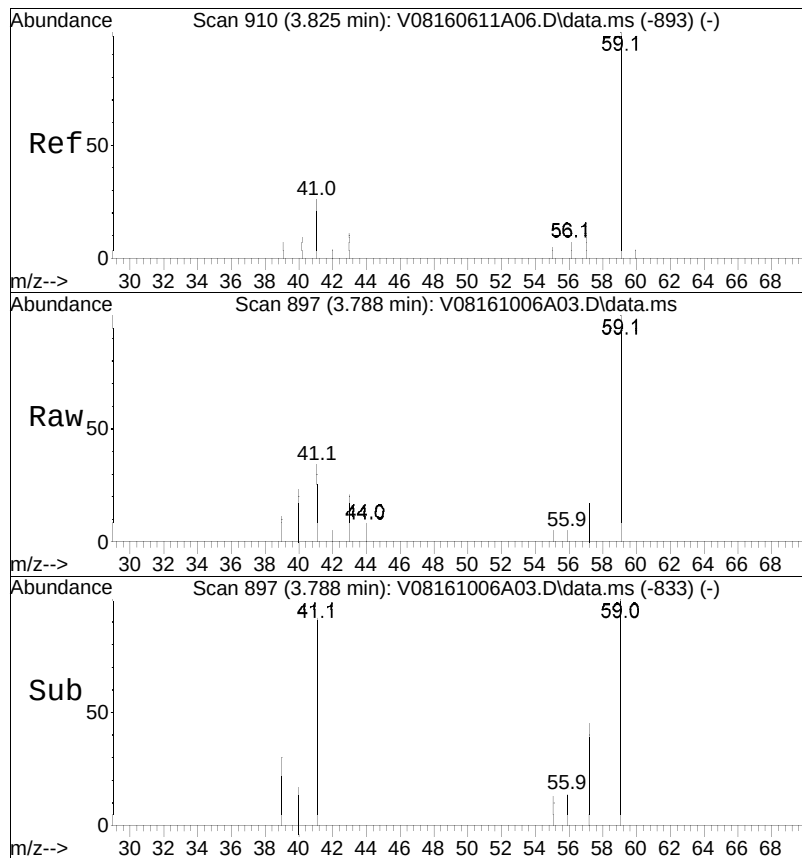




#20
Methyl tert-butyl ether
Concen: 9.88 ug/L
RT: 3.693 min Scan# 863
Delta R.T. -0.009 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

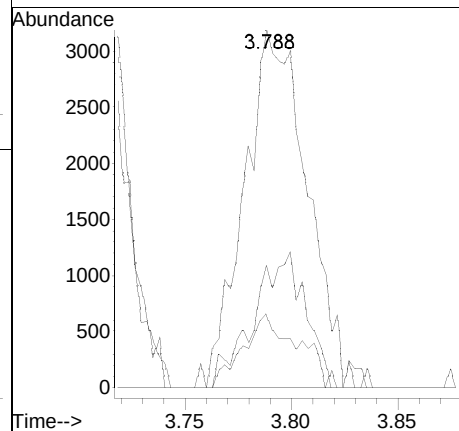
Tgt Ion:	73	Resp:	74452
Ion Ratio	Lower	Upper	
73	100		
57	28.6	21.4	44.4
43	26.8	8.1	16.9#
41	33.1	21.7	45.1

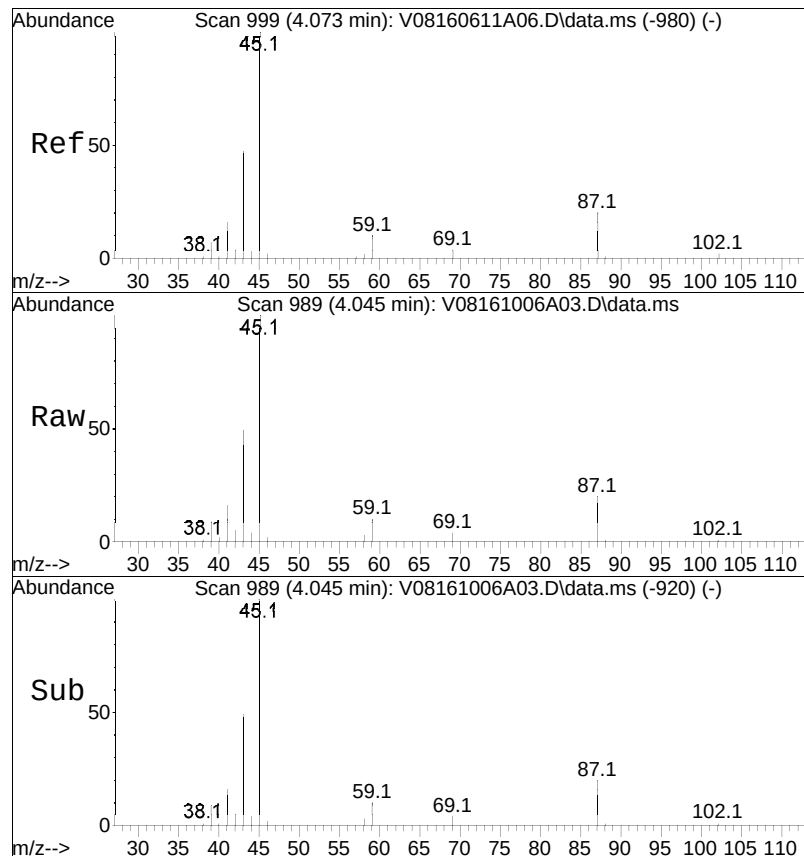




#21
 tert-Butyl alcohol
 Concen: 45.91 ug/L
 RT: 3.788 min Scan# 897
 Delta R.T. -0.022 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

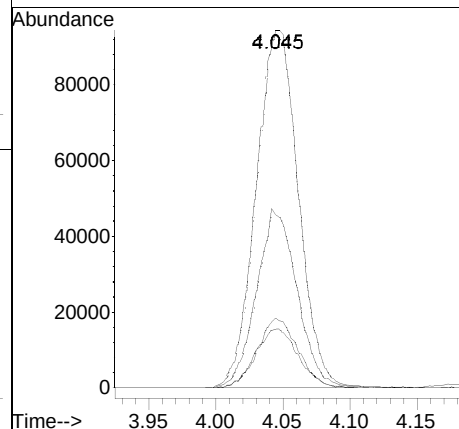
Tgt Ion	Ratio	Lower	Upper
59	100		
41	31.4	22.3	46.3
43	13.9	0.0	0.0#

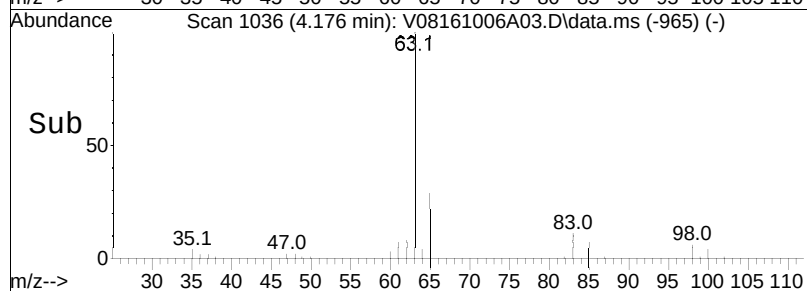
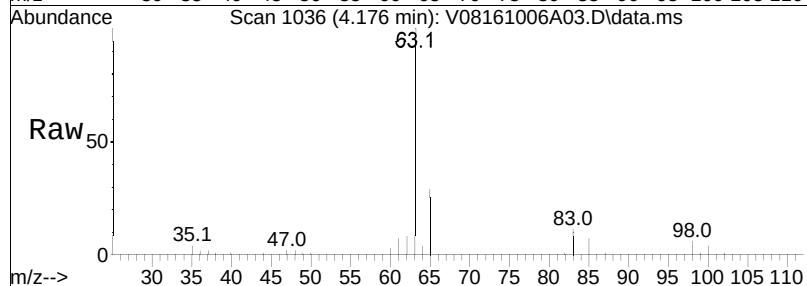
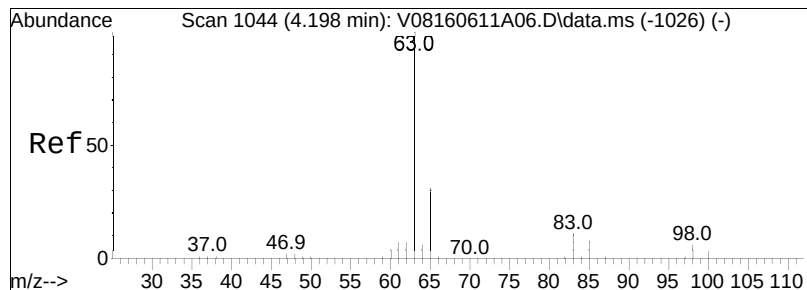




#22
 Diisopropyl ether
 Concen: 10.19 ug/L
 RT: 4.045 min Scan# 989
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

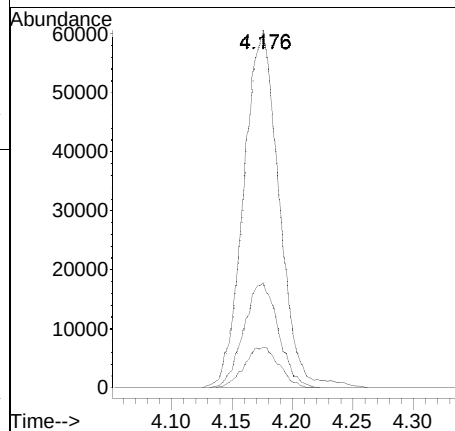
Tgt	Ion: 45	Resp:	204560
Ion	Ratio	Lower	Upper
45	100		
43	48.2	29.1	60.5
87	18.9	11.7	24.3
41	16.8	9.9	20.5

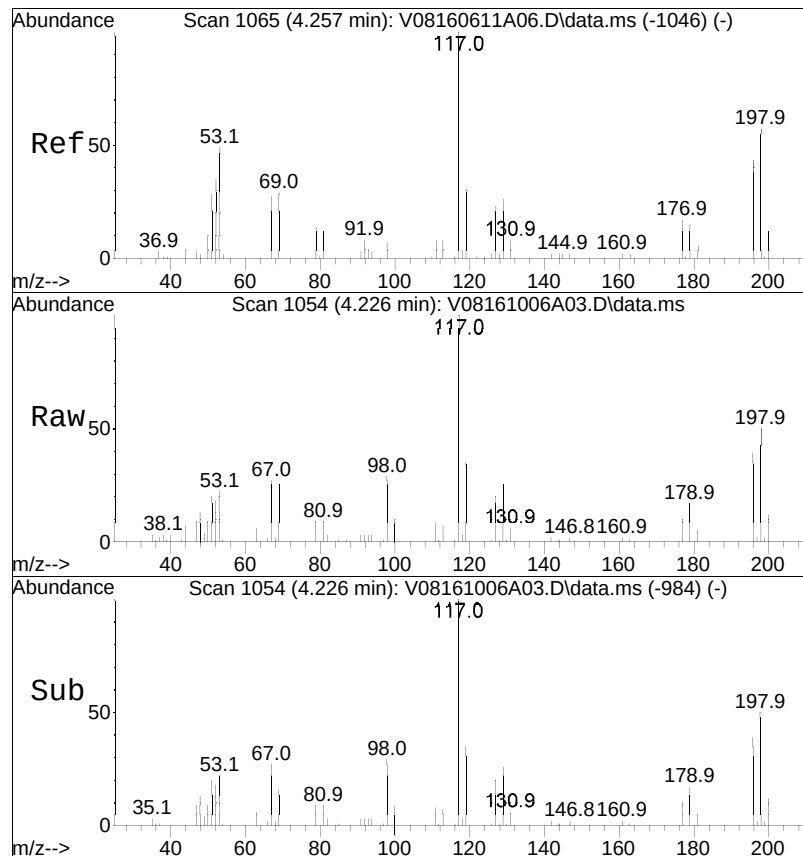




#23
 1,1-Dichloroethane
 Concen: 9.85 ug/L
 RT: 4.176 min Scan# 1036
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

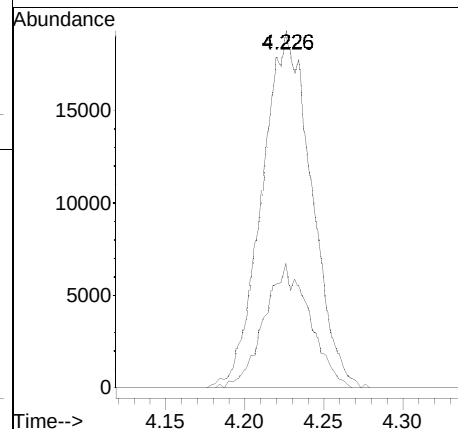
Tgt Ion:	63	Resp:	122130
Ion Ratio	Lower	Upper	
63	100		
65	28.9	8.1	48.1
83	11.3	0.0	30.5

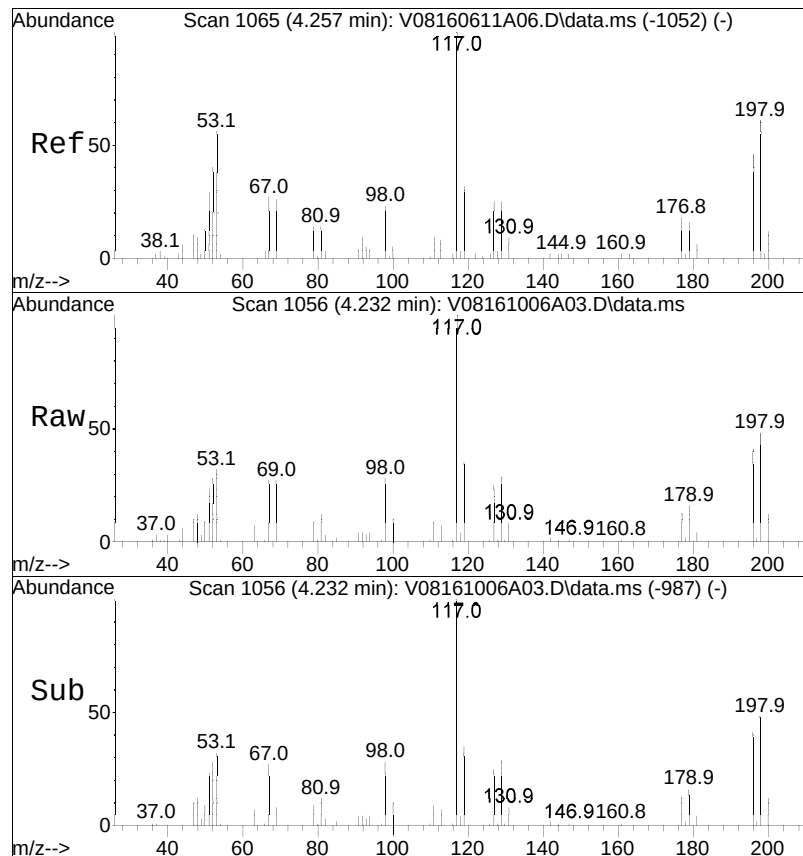




#24
 Halothane
 Concen: 10.21 ug/L
 RT: 4.226 min Scan# 1054
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

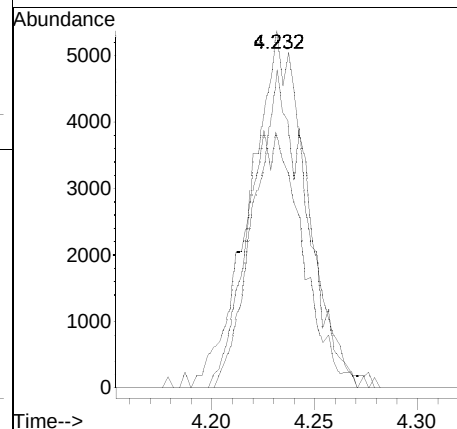
Tgt Ion	Ratio	Lower	Upper
117	100		
119	32.0	9.9	20.5#

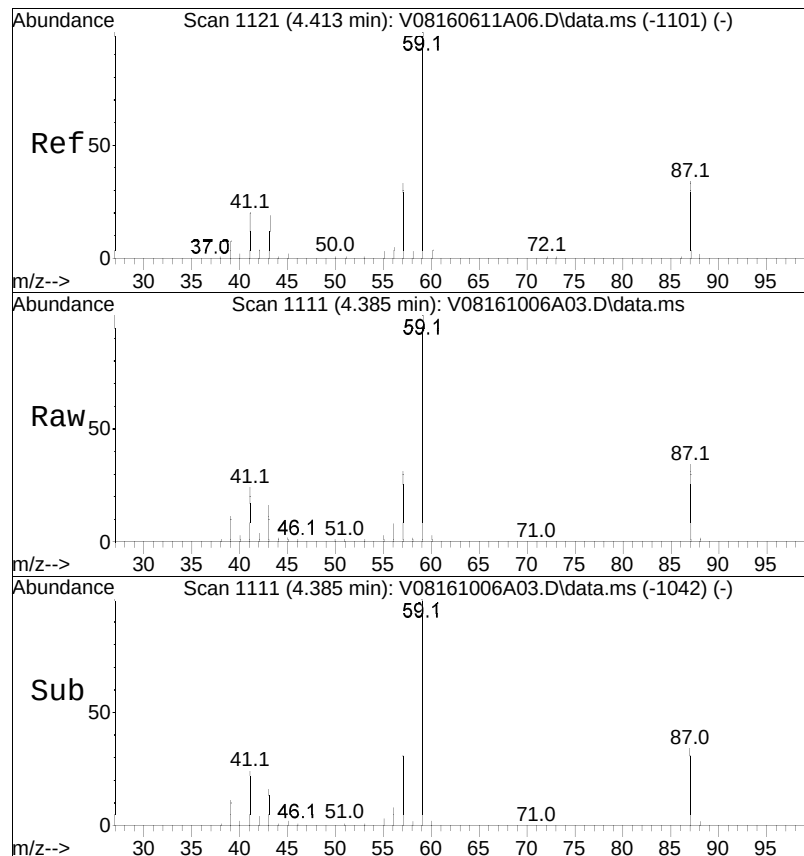




#25
 Acrylonitrile
 Concen: 9.77 ug/L
 RT: 4.232 min Scan# 1056
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

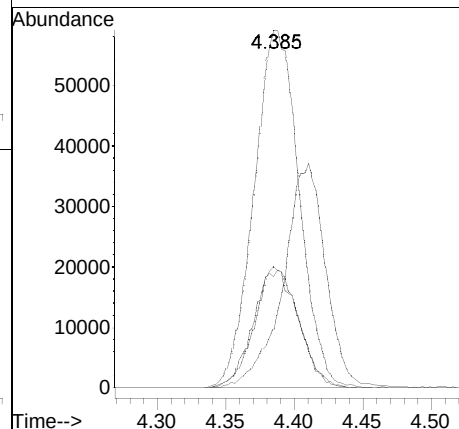
Tgt Ion:	53	Resp:	9883
Ion Ratio	Lower	Upper	
53	100		
52	83.8	69.4	104.0
51	41.3	47.5	71.3#

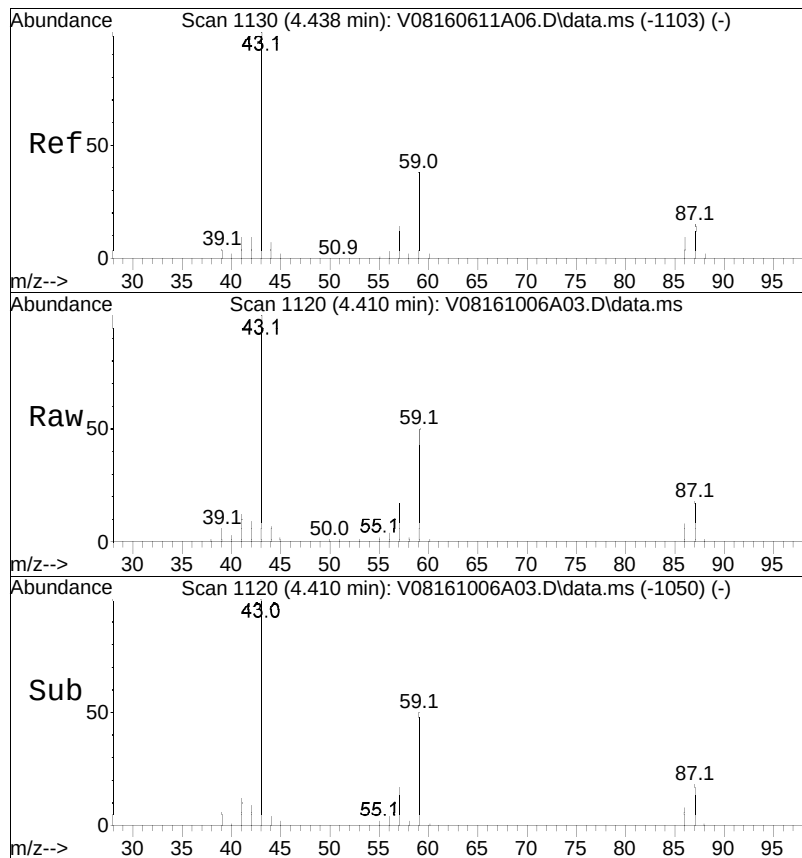




#26
 Ethyl tert-butyl ether
 Concen: 9.62 ug/L
 RT: 4.385 min Scan# 1111
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

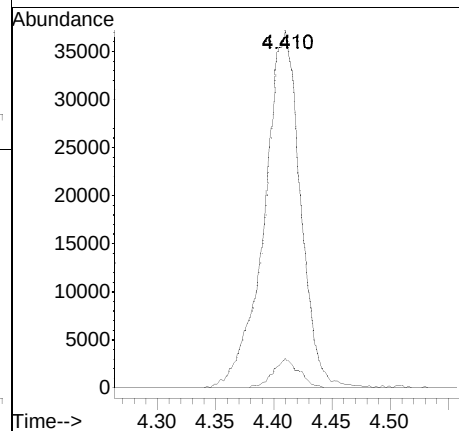
Tgt Ion:	59	Resp:	134761
Ion Ratio	Lower	Upper	
59	100		
87	33.0	20.9	43.5
57	33.3	21.5	44.7
43	59.0	45.8	95.2

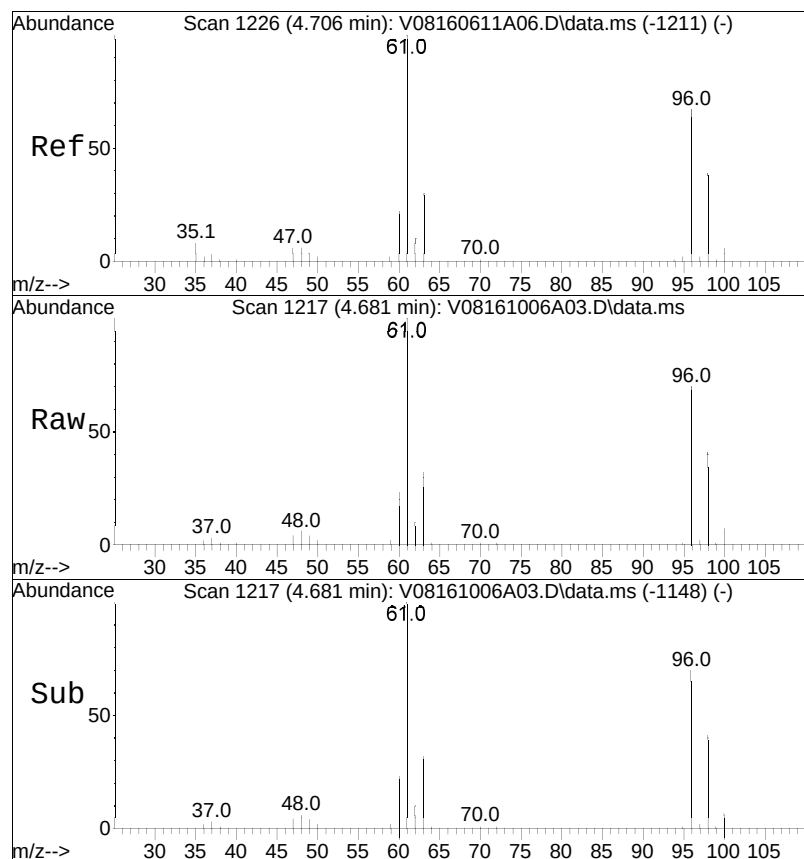




#27
 Vinyl acetate
 Concen: 10.54 ug/L
 RT: 4.410 min Scan# 1120
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

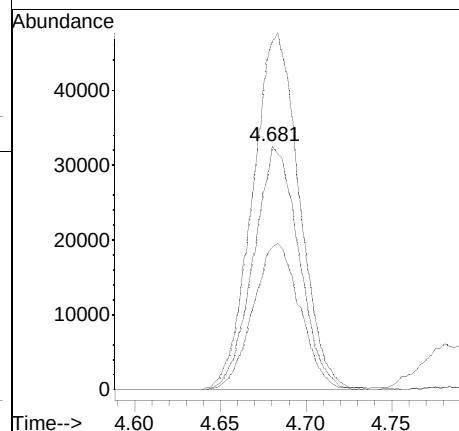
Tgt Ion: 43 Resp: 79543
 Ion Ratio Lower Upper
 43 100
 86 6.1 3.4 5.2#

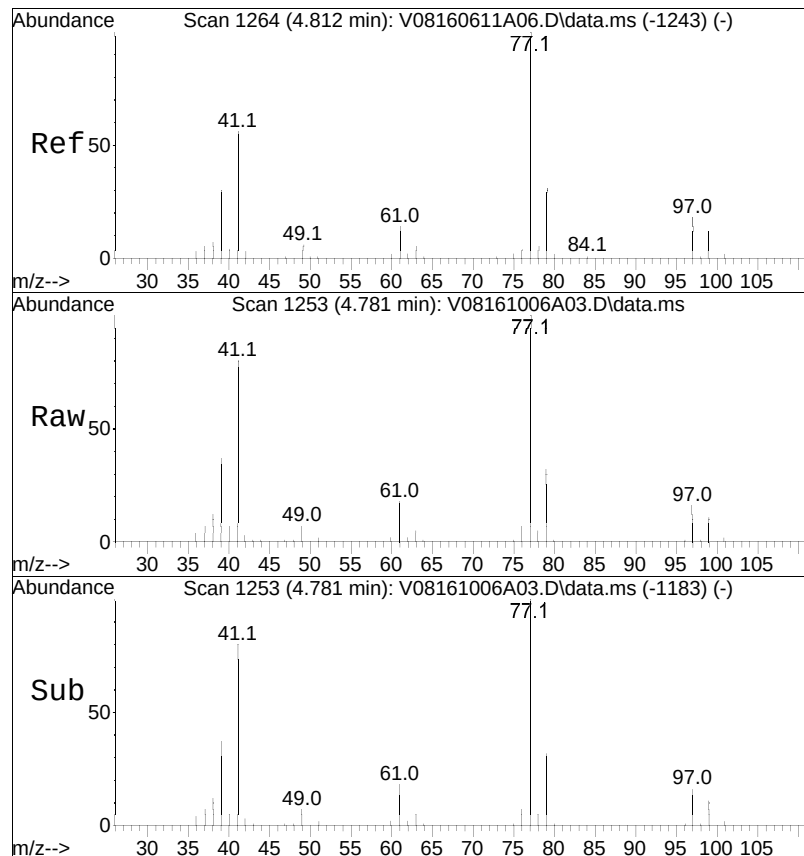




#28
 cis-1,2-Dichloroethene
 Concen: 10.06 ug/L
 RT: 4.681 min Scan# 1217
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

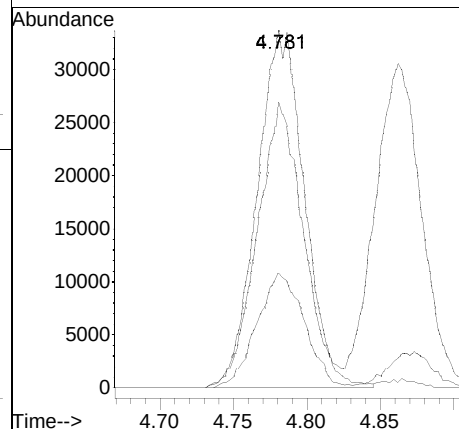
Tgt Ion:	96	Resp:	59625
Ion Ratio	Lower	Upper	
96	100		
61	150.9	127.6	191.4
98	62.2	50.0	75.0

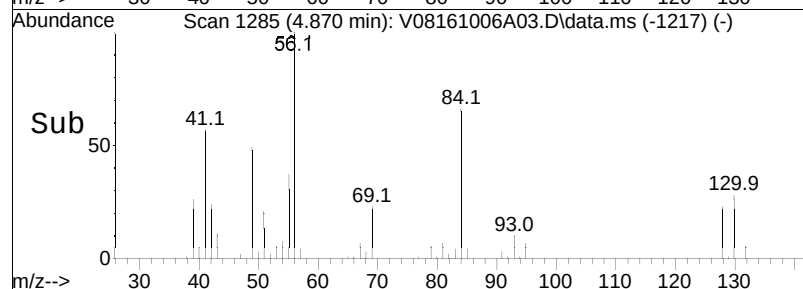
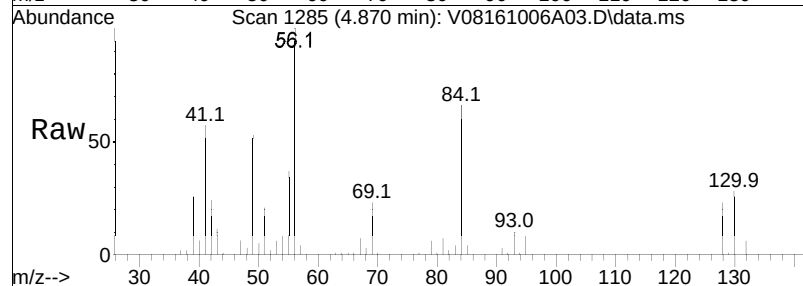
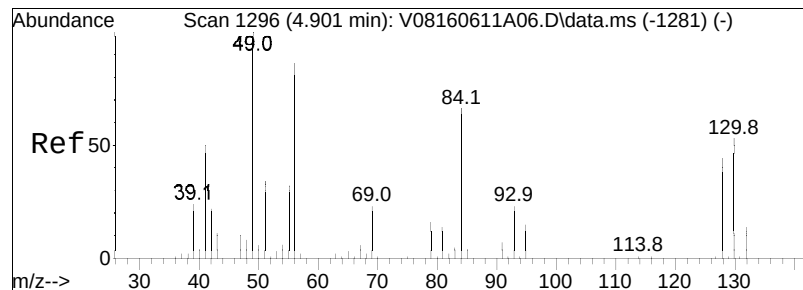




#29
 2,2-Dichloropropane
 Concen: 10.22 ug/L
 RT: 4.781 min Scan# 1253
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

Tgt Ion:	77	Resp:	75285
Ion Ratio	Lower	Upper	
77	100		
41	78.1	52.5	108.9
79	32.3	21.1	43.7





#30

Bromochloromethane

Concen: 9.57 ug/L

RT: 4.870 min Scan# 1285

Delta R.T. -0.011 min

Lab File: V08161006A03.D

Acq: 6 Oct 2016 10:02 am

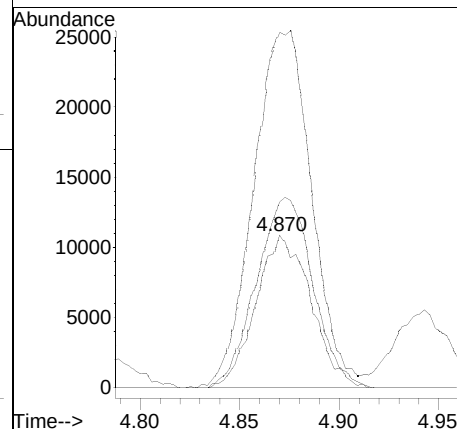
Tgt Ion:128 Resp: 20904

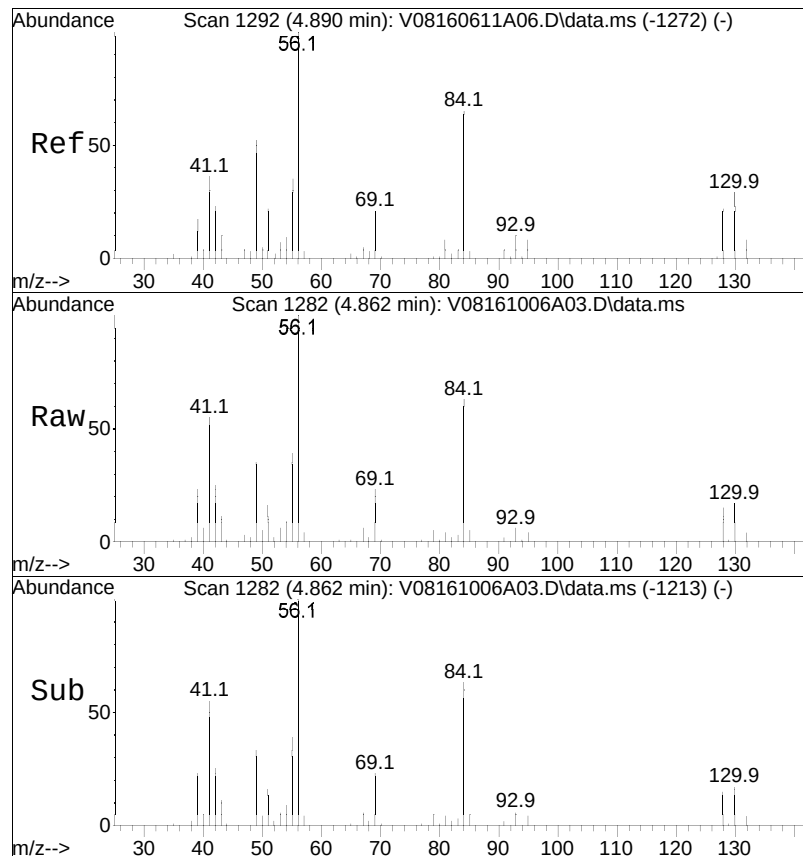
Ion Ratio Lower Upper

128 100

49 246.7 224.2 336.4

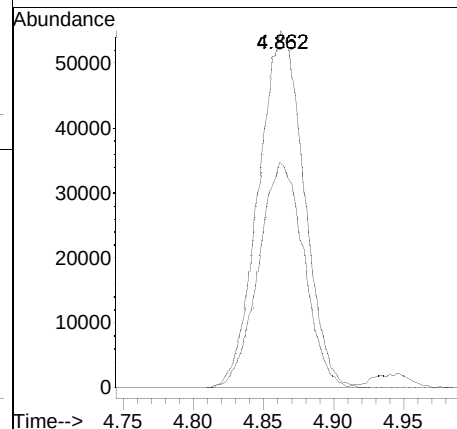
130 128.2 105.3 157.9

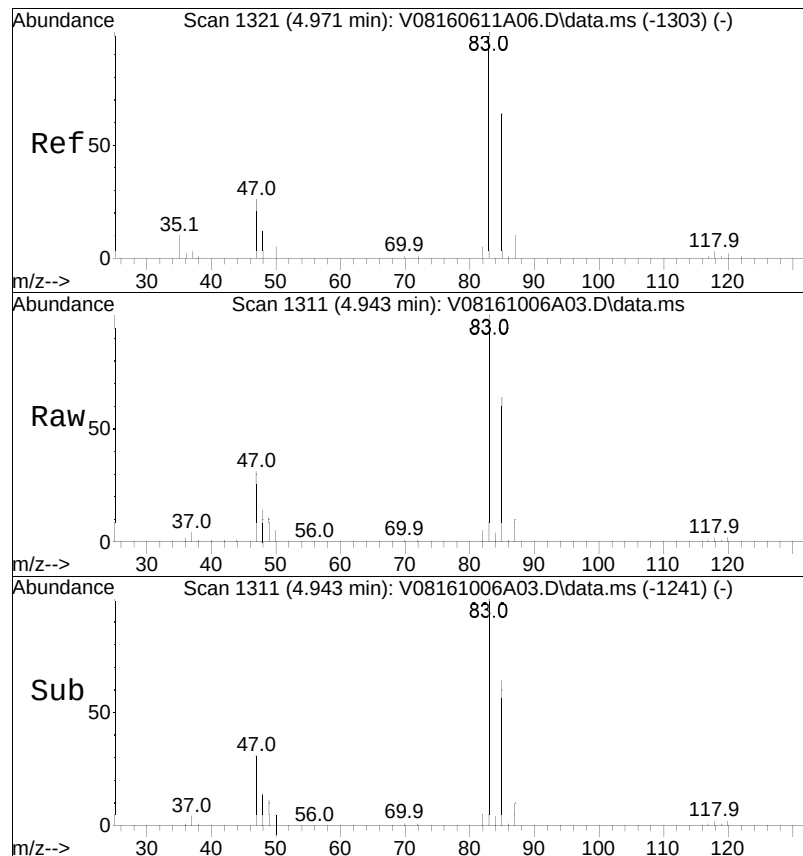




#31
Cyclohexane
Concen: 9.11 ug/L
RT: 4.862 min Scan# 1282
Delta R.T. -0.008 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

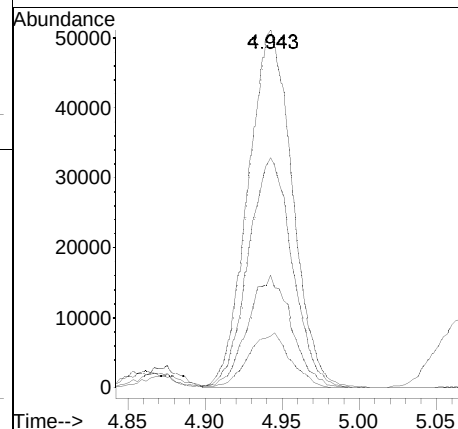
Tgt	Ion	Resp	Lower	Upper
56	100	123587		
84	63.1	37.2	77.4	

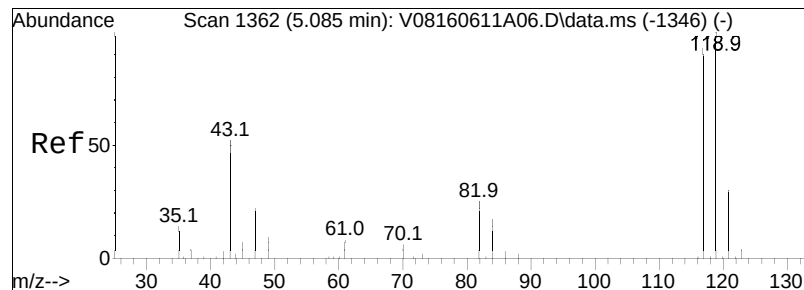




#32
 Chloroform
 Concen: 10.25 ug/L
 RT: 4.943 min Scan# 1311
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

Tgt Ion:	83	Resp:	101756
Ion Ratio	Lower	Upper	
83	100		
85	64.2	42.7	88.7
47	31.4	20.9	43.5
48	14.8	10.5	21.7





#33

Ethyl acetate

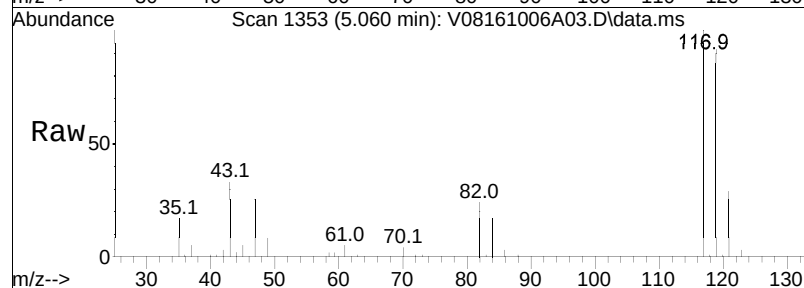
Concen: 9.62 ug/L

RT: 5.060 min Scan# 1353

Delta R.T. -0.003 min

Lab File: V08161006A03.D

Acq: 6 Oct 2016 10:02 am



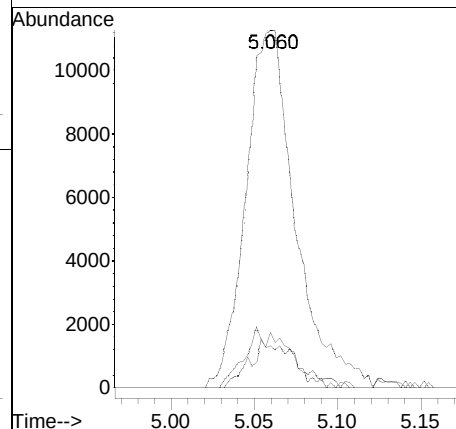
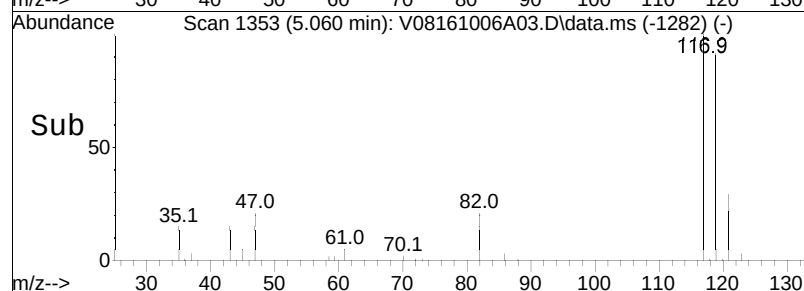
Tgt Ion: 43 Resp: 23180

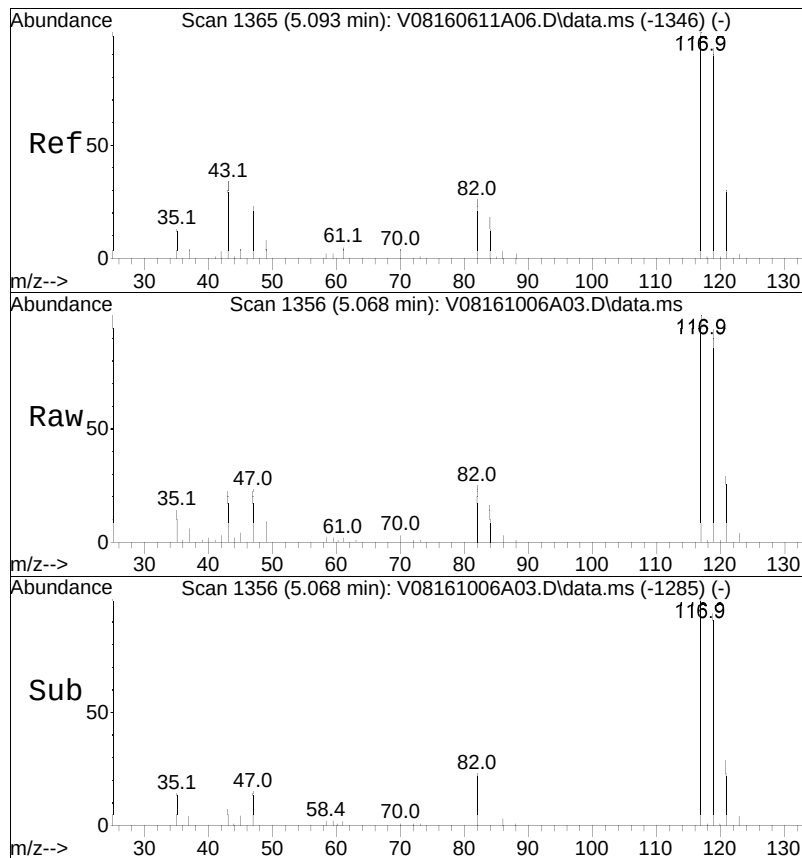
Ion Ratio Lower Upper

43 100

45 7.2 10.5 15.7#

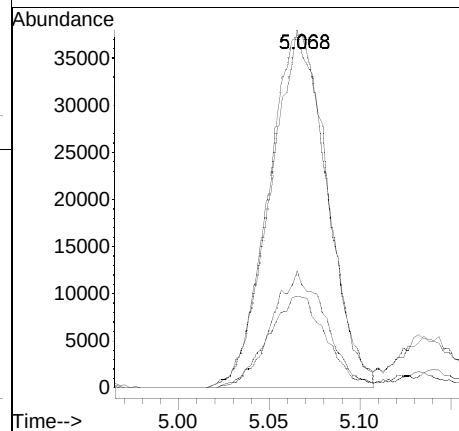
70 12.0 3.7 5.5#

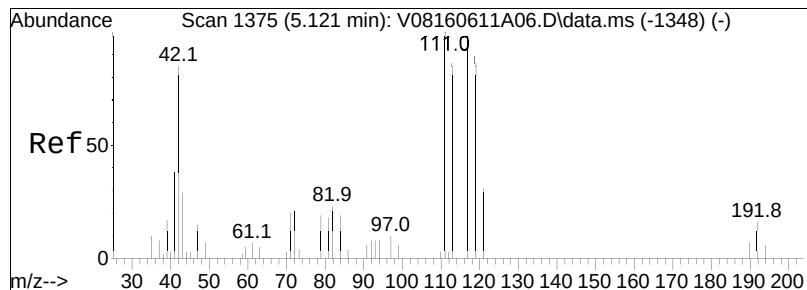




#34
 Carbon tetrachloride
 Concen: 9.75 ug/L
 RT: 5.068 min Scan# 1356
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

Tgt Ion:	117	Resp:	84785
Ion Ratio	Lower	Upper	
117	100		
119	96.6	62.9	130.5
121	30.5	20.0	41.4
82	25.2	16.7	34.7





#35

Tetrahydrofuran

Concen: 9.11 ug/L

RT: 5.099 min Scan# 1367

Delta R.T. -0.003 min

Lab File: V08161006A03.D

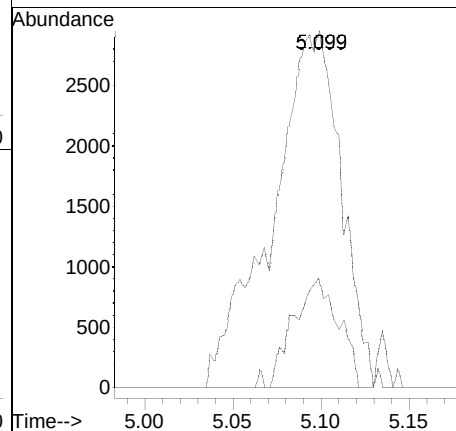
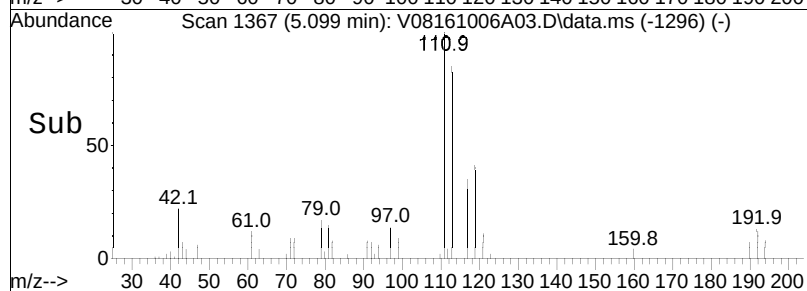
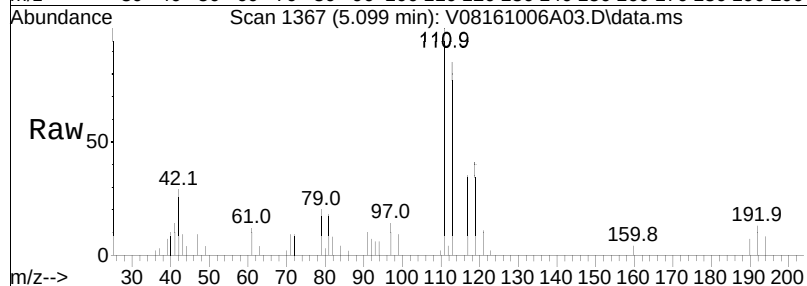
Acq: 6 Oct 2016 10:02 am

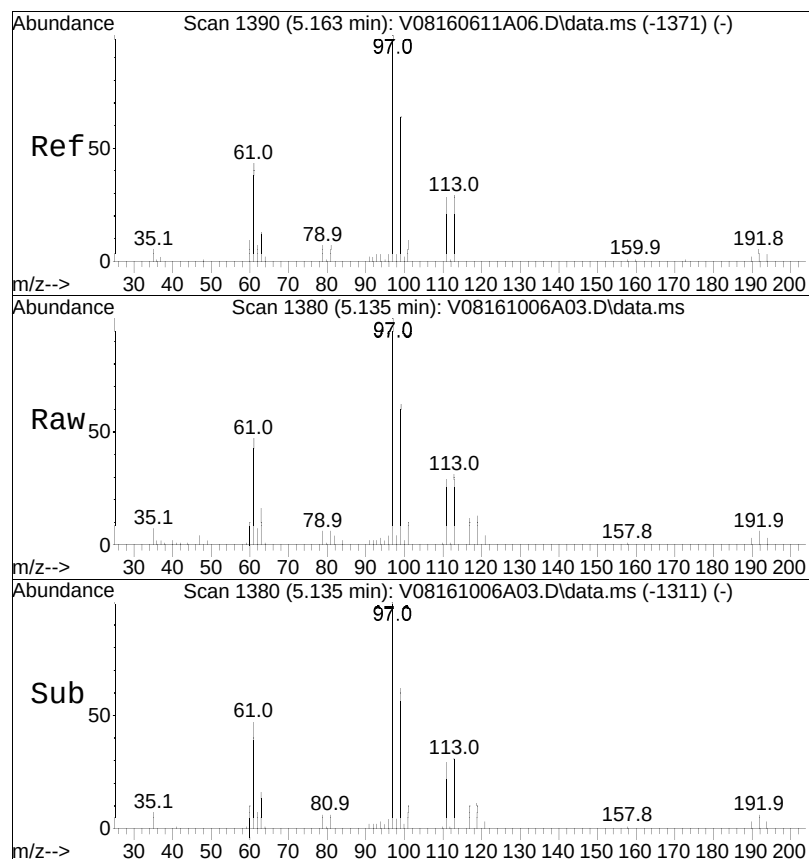
Tgt Ion: 42 Resp: 8008

Ion Ratio Lower Upper

42 100

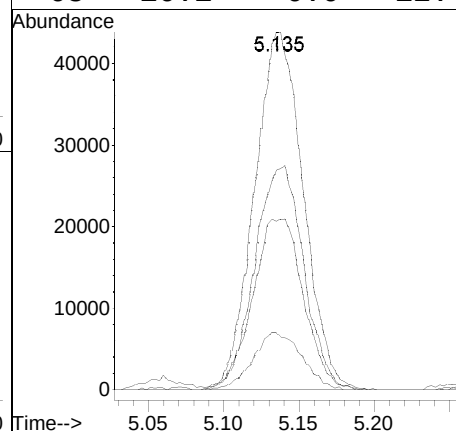
71 20.1 17.4 26.2

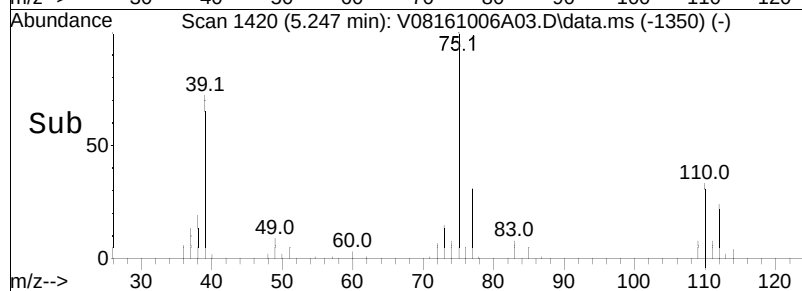
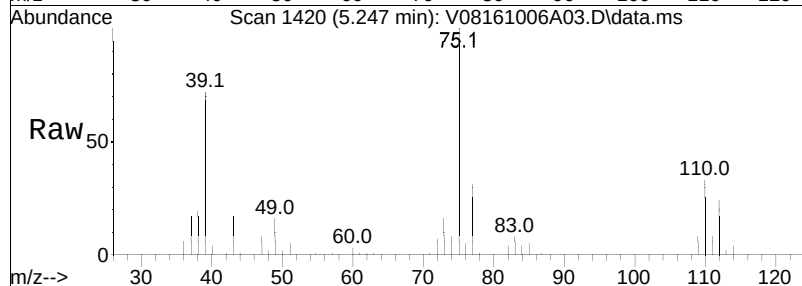
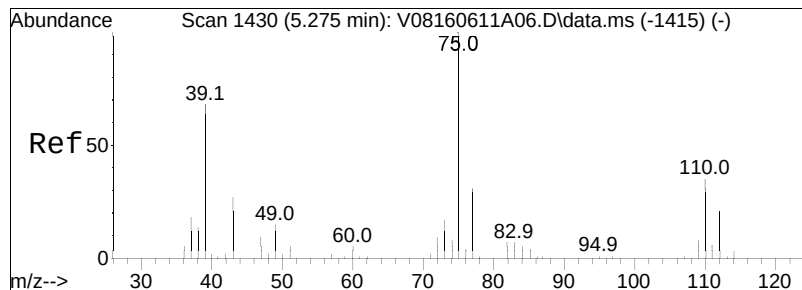




#37
 1,1,1-Trichloroethane
 Concen: 10.39 ug/L
 RT: 5.135 min Scan# 1380
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

Tgt Ion:	97	Resp:	98388
Ion Ratio	Lower	Upper	
97	100		
99	62.8	40.3	83.7
61	49.6	34.3	71.1
63	16.1	6.0	12.4#





#39

2-Butanone

Concen: 10.16 ug/L M1

RT: 5.247 min Scan# 1420

Delta R.T. -0.005 min

Lab File: V08161006A03.D

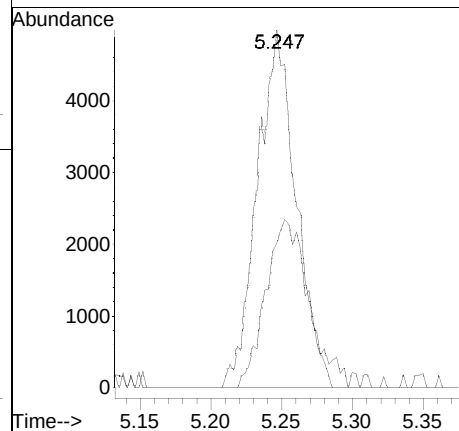
Acq: 6 Oct 2016 10:02 am

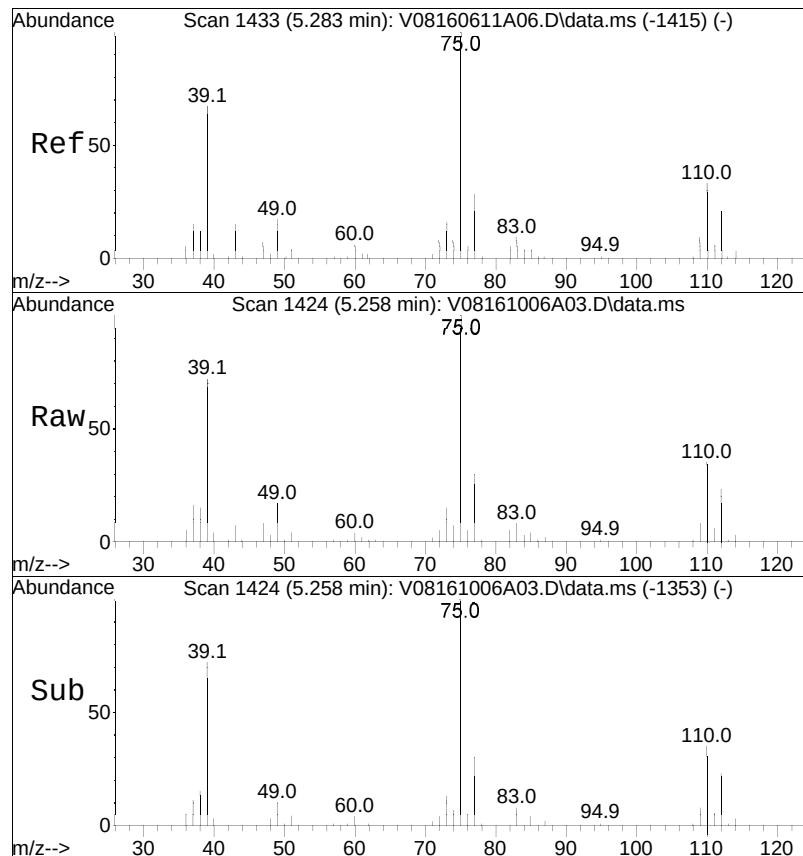
Tgt Ion: 43 Resp: 9785

Ion Ratio Lower Upper

43 100

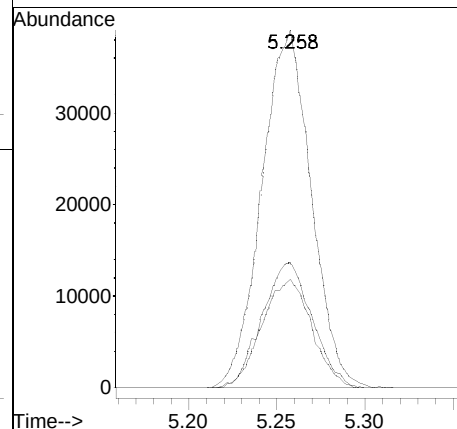
72 47.5 30.0 45.0#

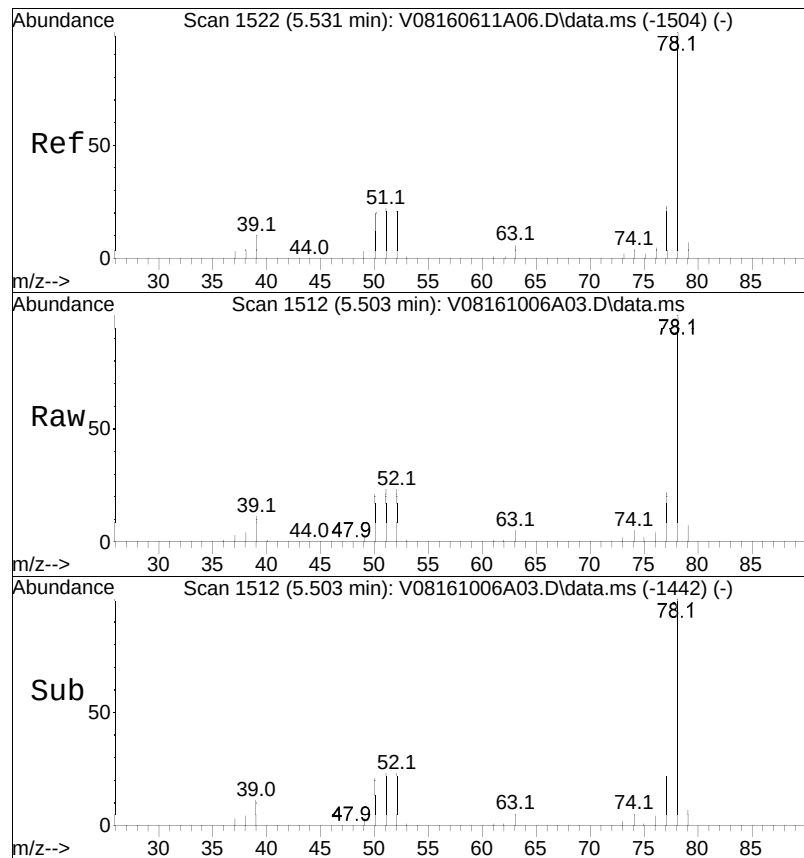




#40
 1,1-Dichloropropene
 Concen: 9.50 ug/L
 RT: 5.258 min Scan# 1424
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

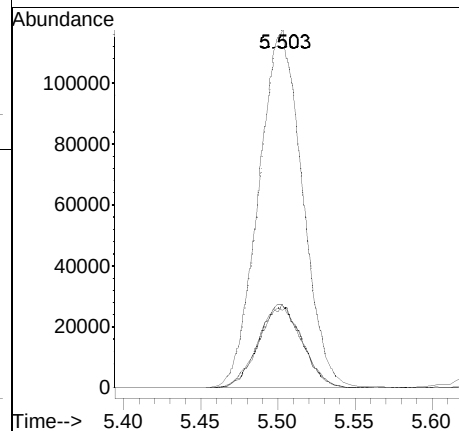
Tgt	Ion: 75	Resp:	75750
Ion	Ratio	Lower	Upper
75	100		
110	35.6	22.9	47.7
77	30.7	20.3	42.3

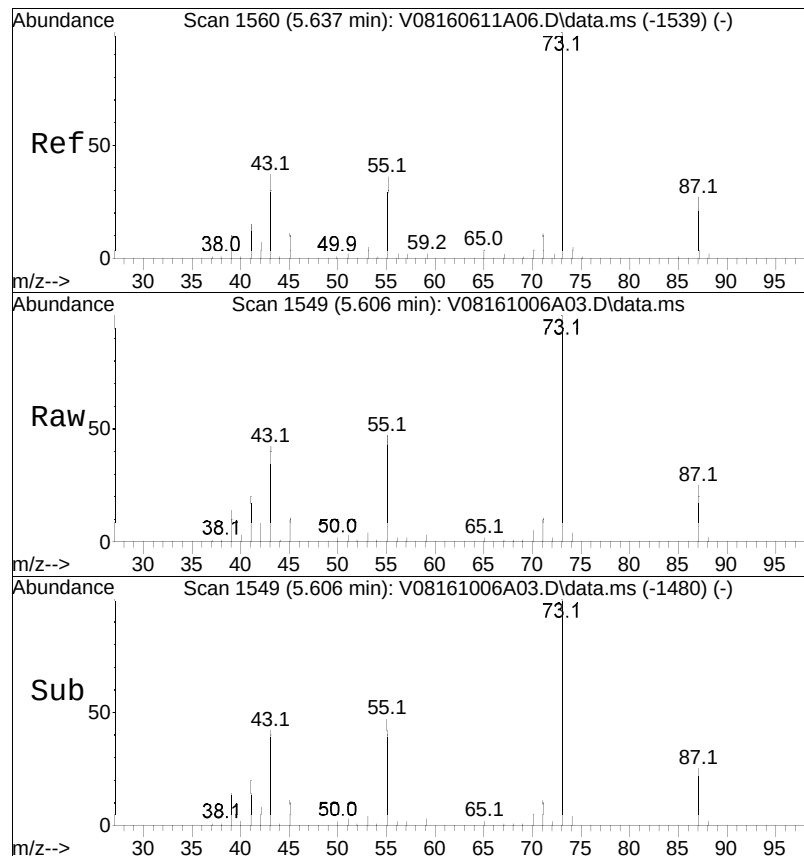




#41
Benzene
Concen: 9.87 ug/L
RT: 5.503 min Scan# 1512
Delta R.T. -0.006 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

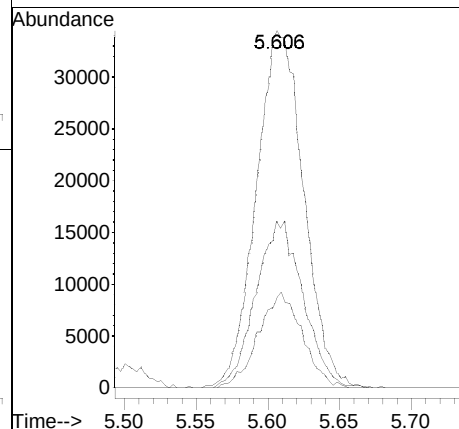
Tgt	Ion: 78	Resp:	230219
Ion	Ratio	Lower	Upper
78	100		
77	23.2	14.9	30.9
51	23.5	15.7	32.7
52	23.0	15.8	32.8

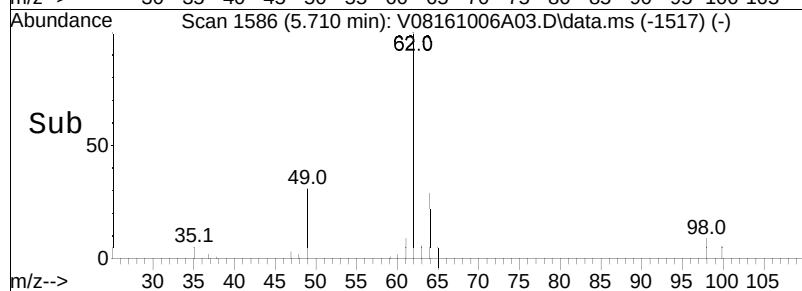
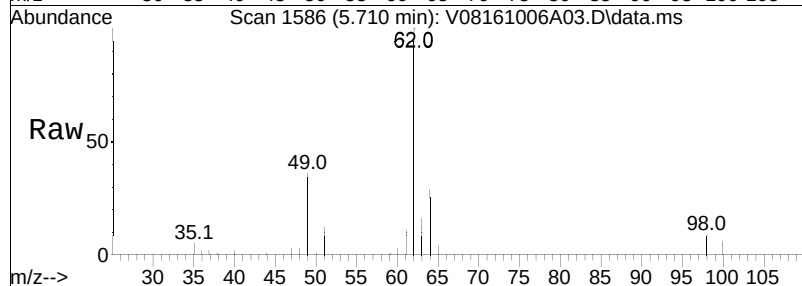
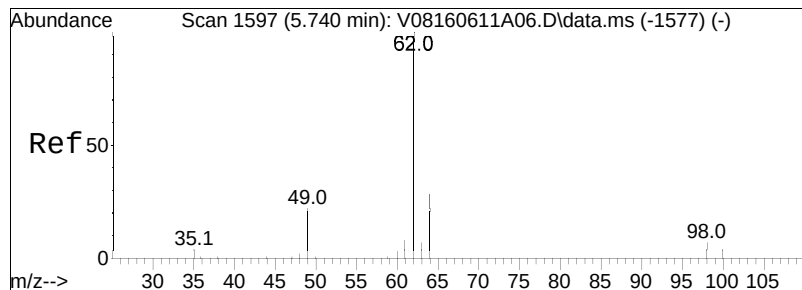




#42
 tert-Amyl methyl ether
 Concen: 9.22 ug/L
 RT: 5.606 min Scan# 1549
 Delta R.T. -0.009 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

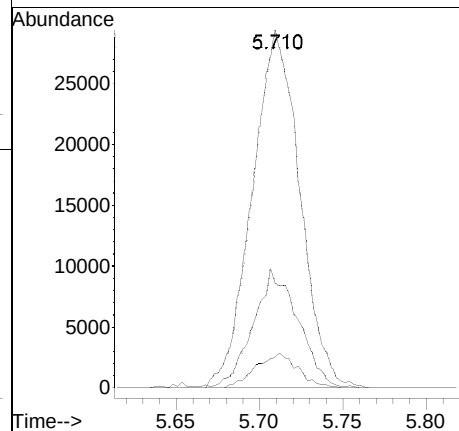
Tgt Ion	Ratio	Lower	Upper
73	100		
55	46.5	32.8	68.0
87	24.9	9.4	19.4

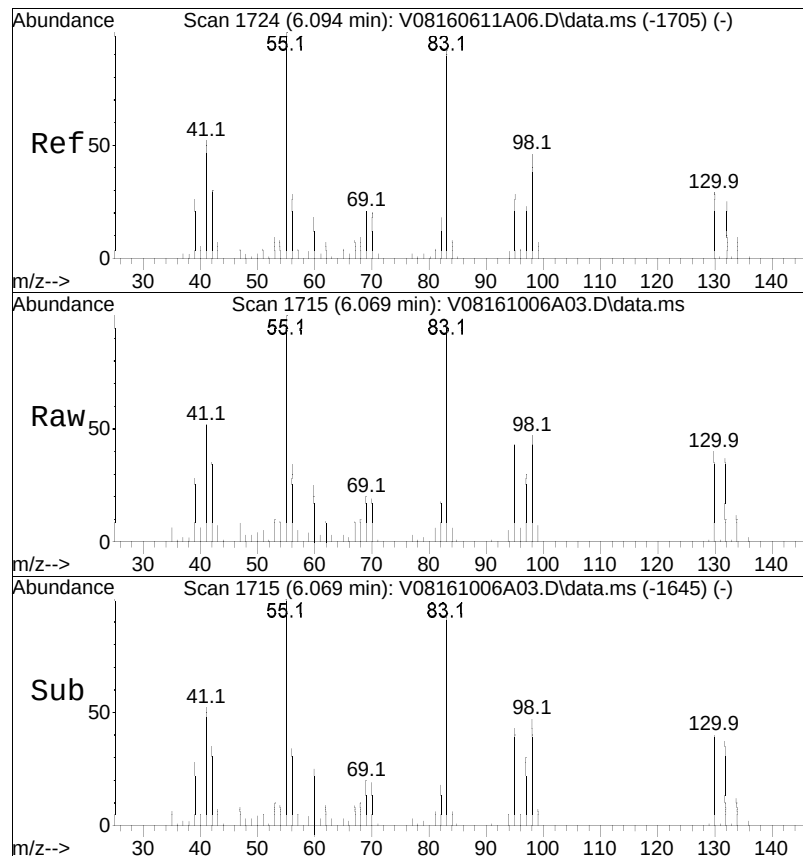




#44
 1,2-Dichloroethane
 Concen: 9.65 ug/L
 RT: 5.710 min Scan# 1586
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

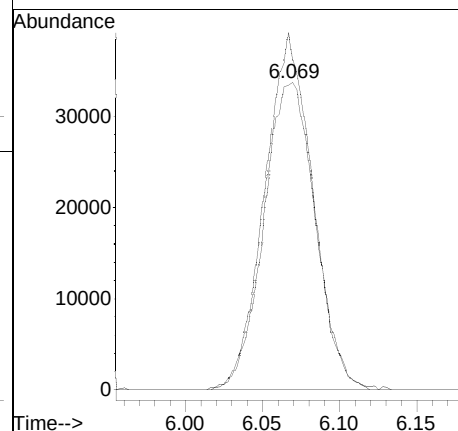
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.7	10.9	50.9
98	8.7	0.0	23.4

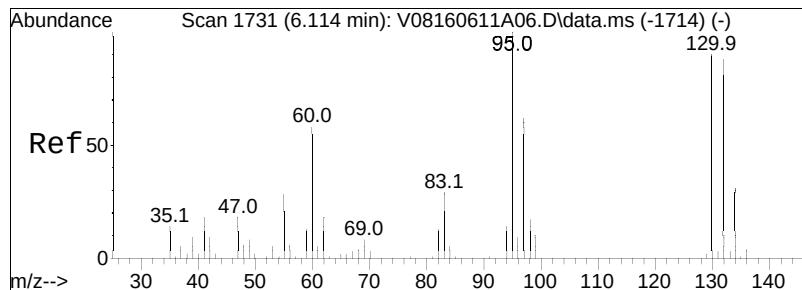




#47
Methyl cyclohexane
Concen: 8.28 ug/L
RT: 6.069 min Scan# 1715
Delta R.T. -0.006 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

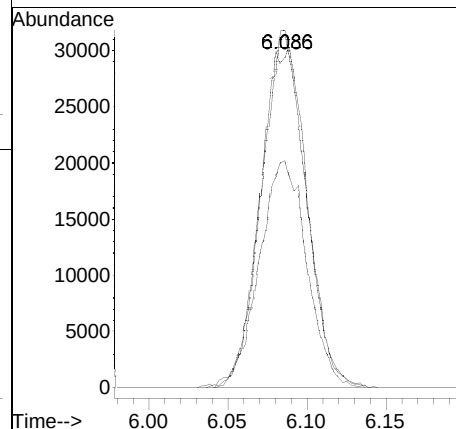
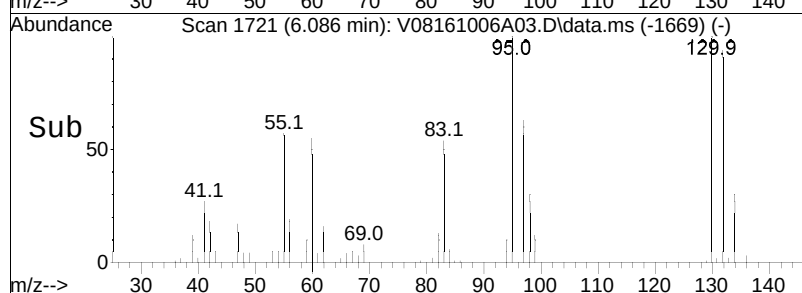
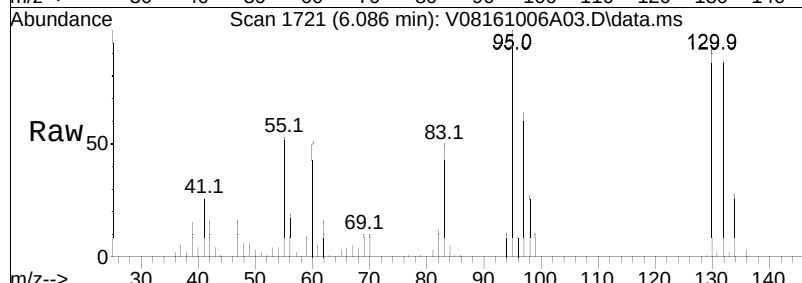
Tgt Ion: 83 Resp: 77704
Ion Ratio Lower Upper
83 100
55 108.8 91.3 136.9

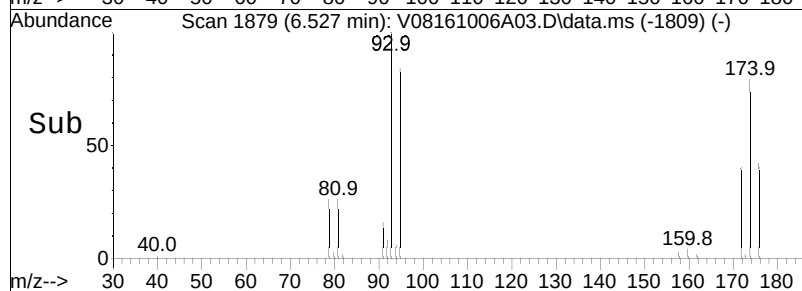
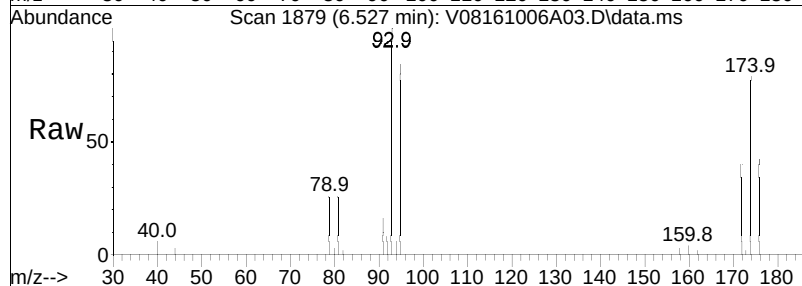
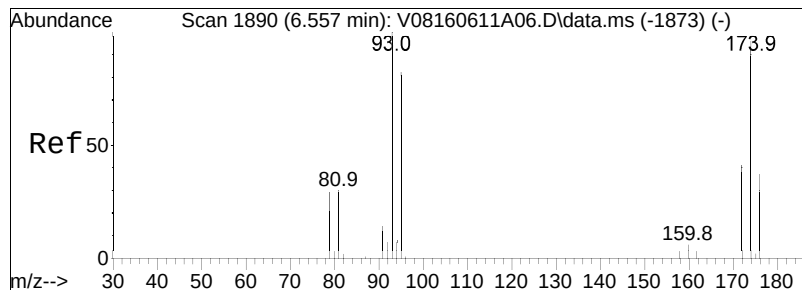




#48
 Trichloroethene
 Concen: 9.92 ug/L
 RT: 6.086 min Scan# 1721
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

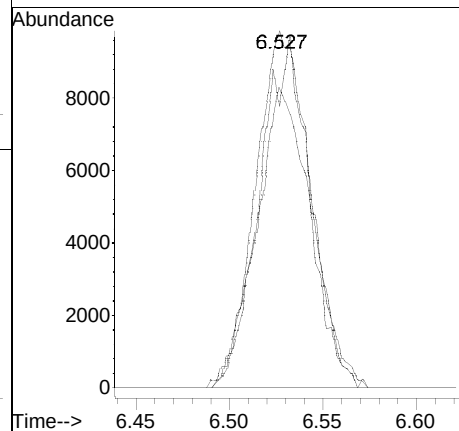
Tgt Ion	Ratio	Lower	Upper
95	100		
97	67.8	55.1	82.7
130	99.0	77.3	115.9

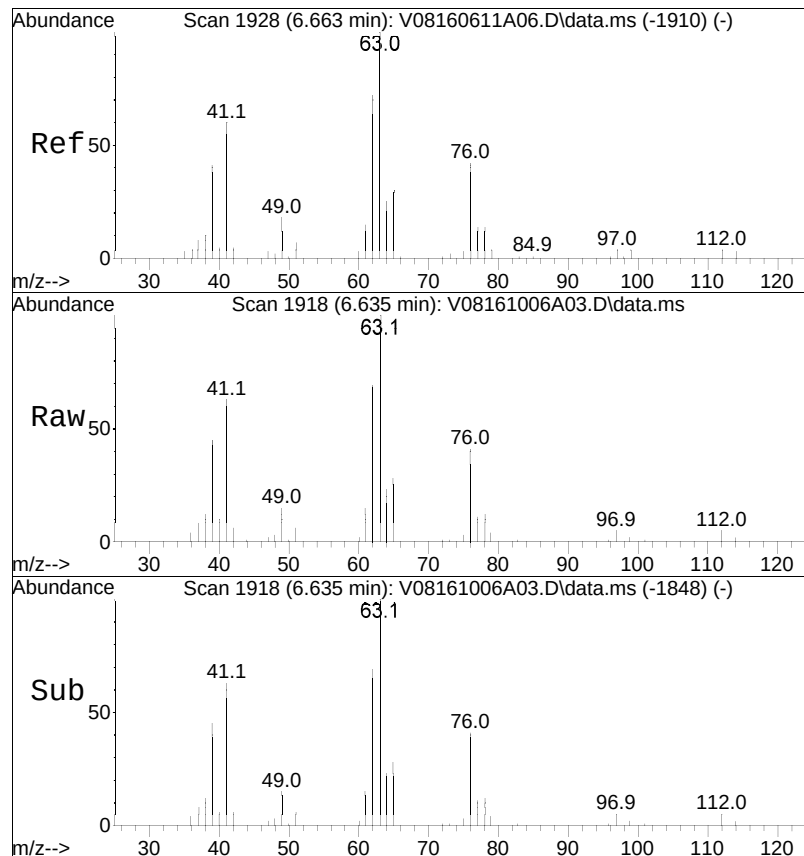




#50
 Dibromomethane
 Concen: 9.79 ug/L
 RT: 6.527 min Scan# 1879
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

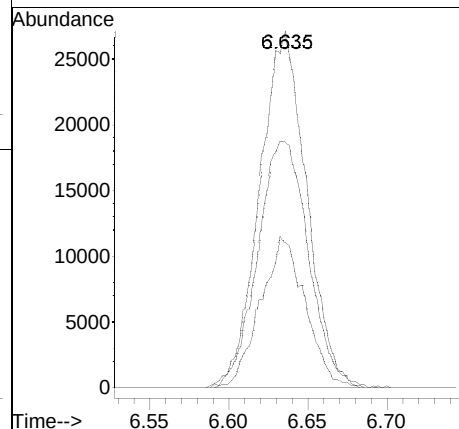
Tgt Ion:	93	Resp:	19991
Ion Ratio	Lower	Upper	
93	100		
95	81.8	66.7	100.1
174	92.4	67.9	101.9

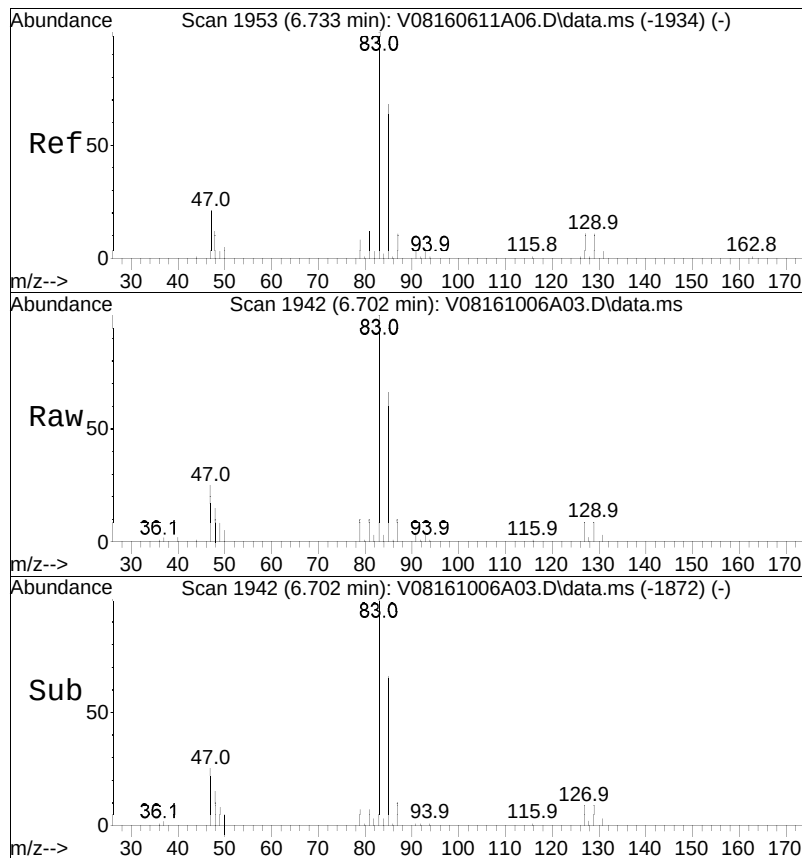




#51
 1,2-Dichloropropane
 Concen: 9.30 ug/L
 RT: 6.635 min Scan# 1918
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

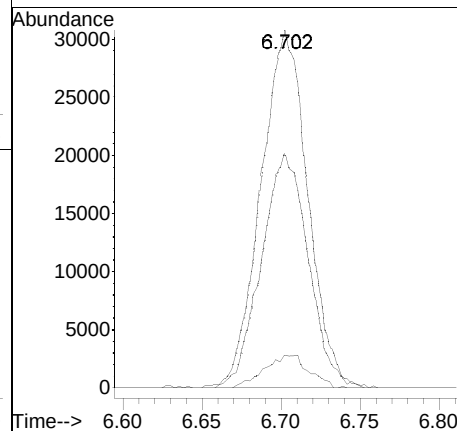
Tgt	Ion: 63	Resp:	55669
Ion	Ratio	Lower	Upper
63	100		
62	74.5	57.8	86.6
76	40.6	28.0	42.0

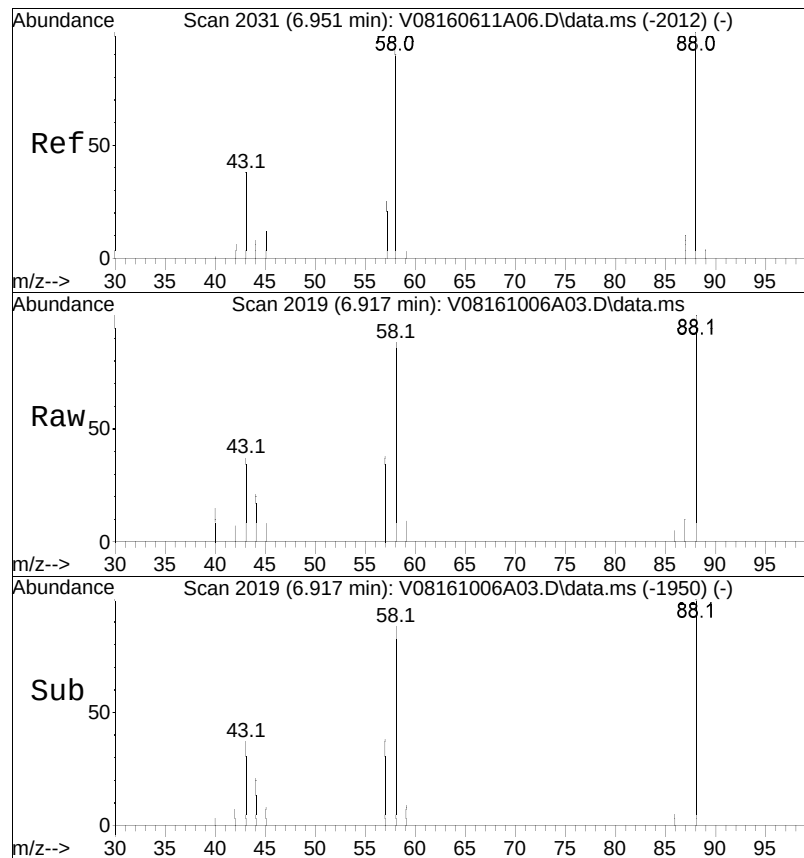




#54
 Bromodichloromethane
 Concen: 9.94 ug/L
 RT: 6.702 min Scan# 1942
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

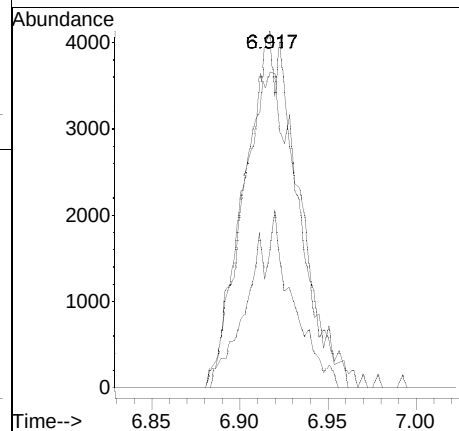
Tgt Ion:	83	Resp:	62988
Ion Ratio	Lower	Upper	
83	100		
85	65.3	51.5	77.3
127	8.6	4.2	6.4#

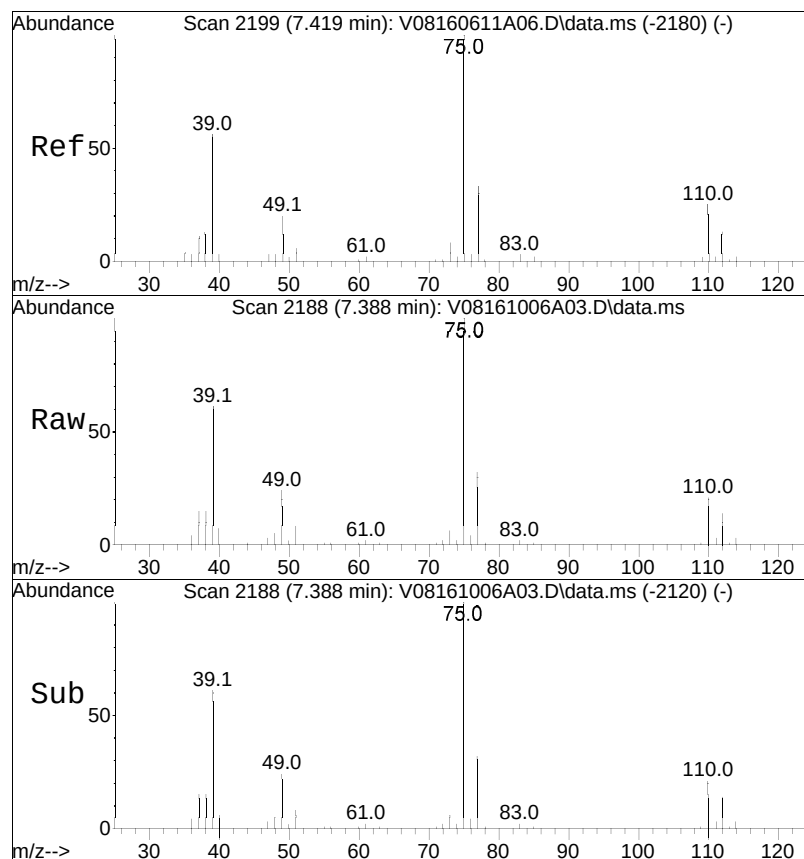




#57
 1,4-Dioxane
 Concen: 455.51 ug/L
 RT: 6.917 min Scan# 2019
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

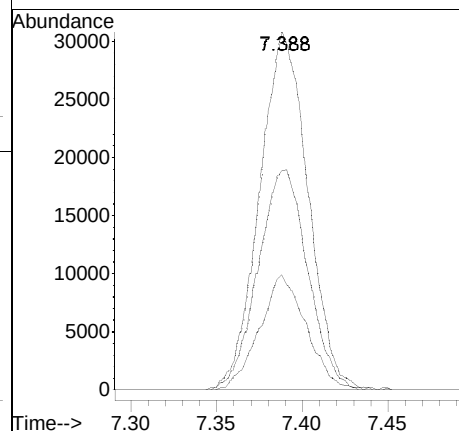
Tgt Ion	Ratio	Lower	Upper
88	100		
58	92.6	70.8	106.2
43	17.6	29.3	43.9#

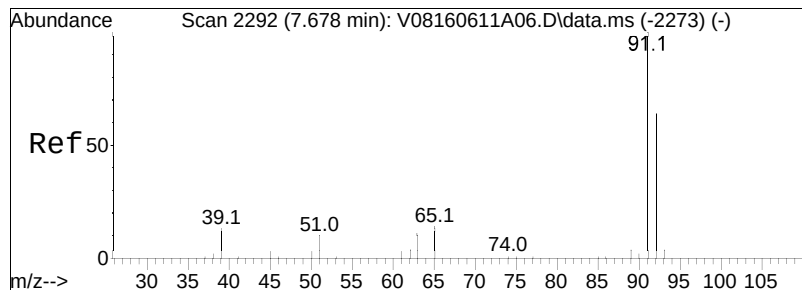




#58
 cis-1,3-Dichloropropene
 Concen: 8.79 ug/L
 RT: 7.388 min Scan# 2188
 Delta R.T. -0.011 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

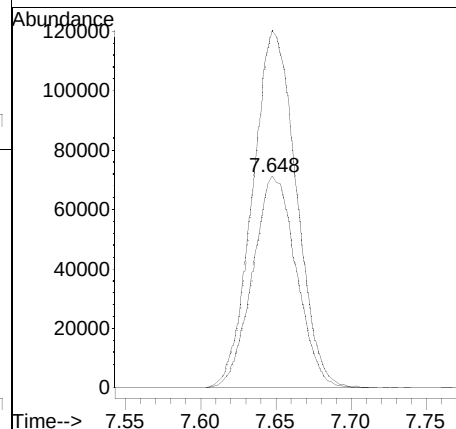
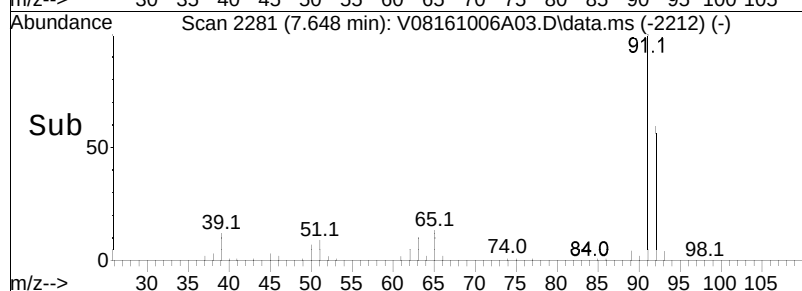
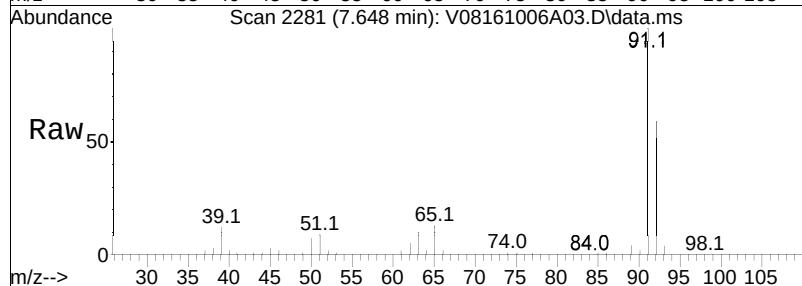
Tgt Ion:	75	Resp:	60083
Ion Ratio	Lower	Upper	
75	100		
77	31.0	24.6	37.0
39	63.2	48.9	73.3

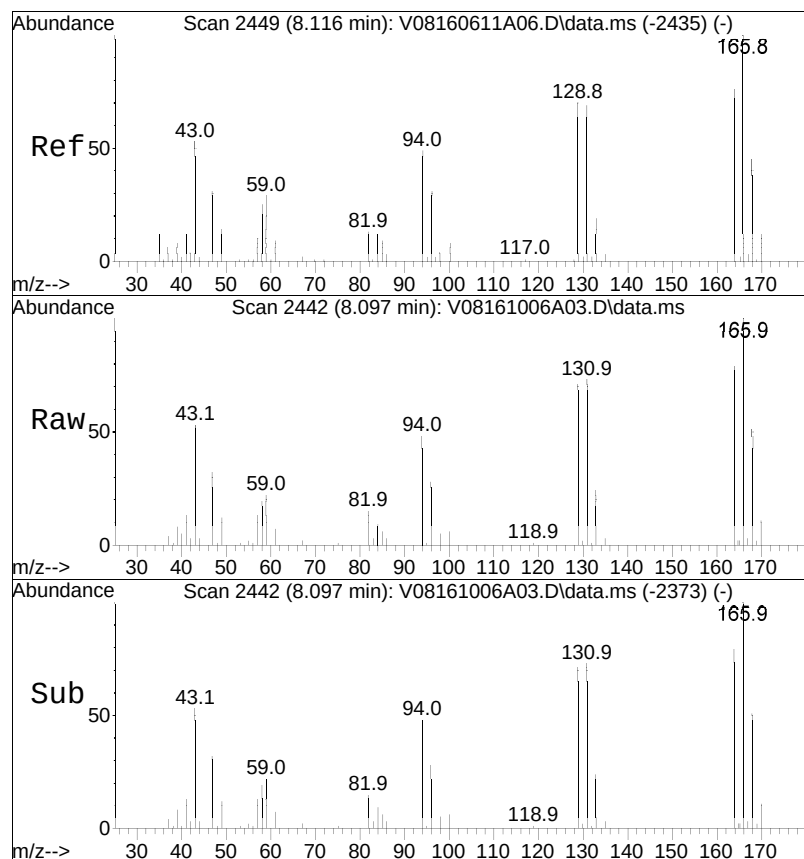




#61
Toluene
Concen: 10.41 ug/L
RT: 7.648 min Scan# 2281
Delta R.T. -0.008 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

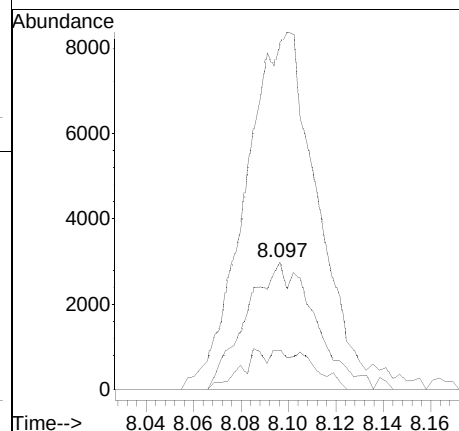
Tgt Ion: 92 Resp: 142690
Ion Ratio Lower Upper
92 100
91 169.0 132.6 198.8

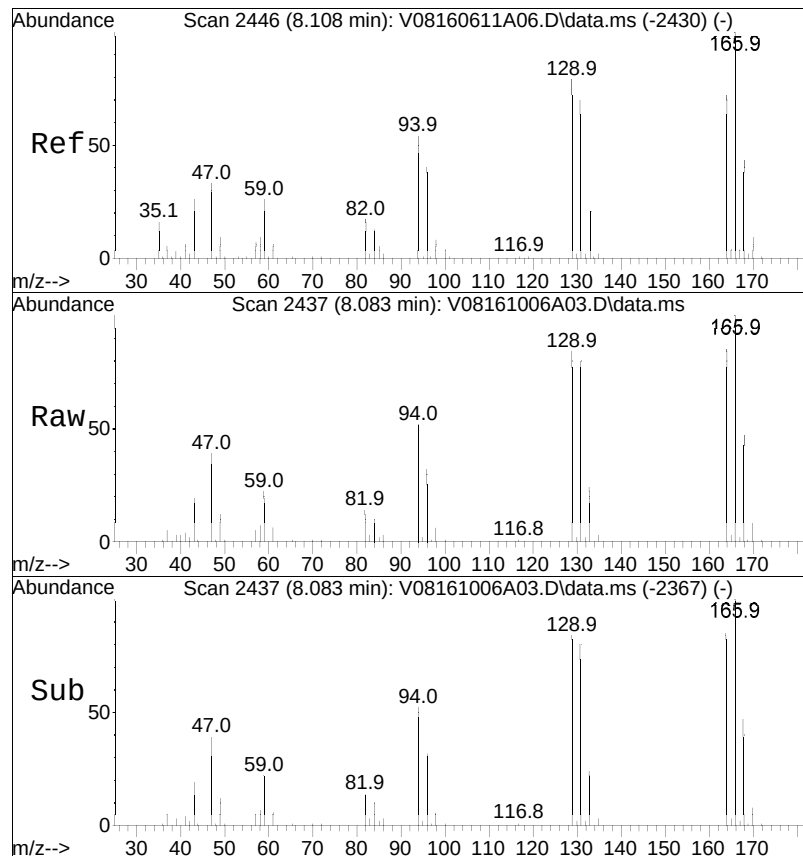




#62
 4-Methyl-2-pentanone
 Concen: 7.29 ug/L
 RT: 8.097 min Scan# 2442
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

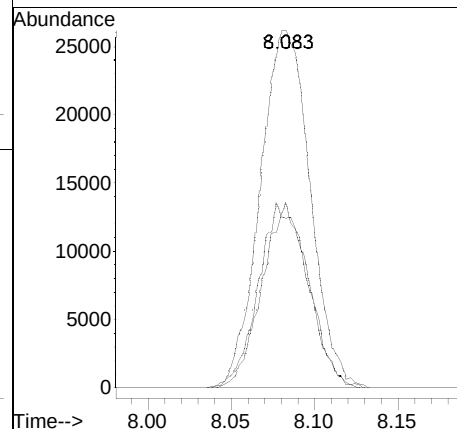
Tgt Ion:	58	Resp:	5991
Ion Ratio	Lower	Upper	
58	100		
100	12.1	21.5	32.3#
43	299.8	204.0	306.0

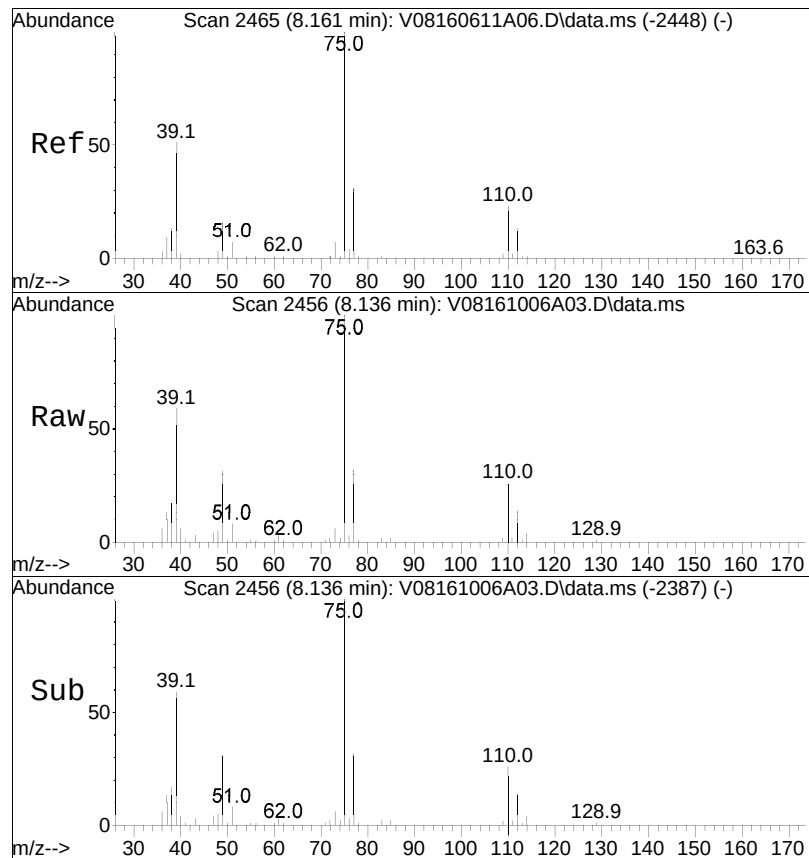




#63
Tetrachloroethene
Concen: 9.50 ug/L
RT: 8.083 min Scan# 2437
Delta R.T. -0.005 min
Lab File: V08161006A03.D
Acq: 6 Oct 2016 10:02 am

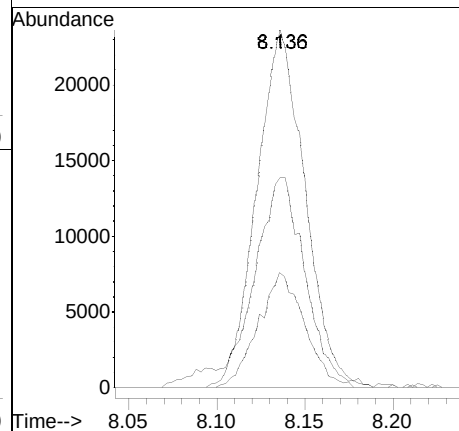
Tgt Ion:	166	Resp:	54451
Ion Ratio	Lower	Upper	
166	100		
168	48.3	28.7	68.7
94	51.2	32.1	72.1

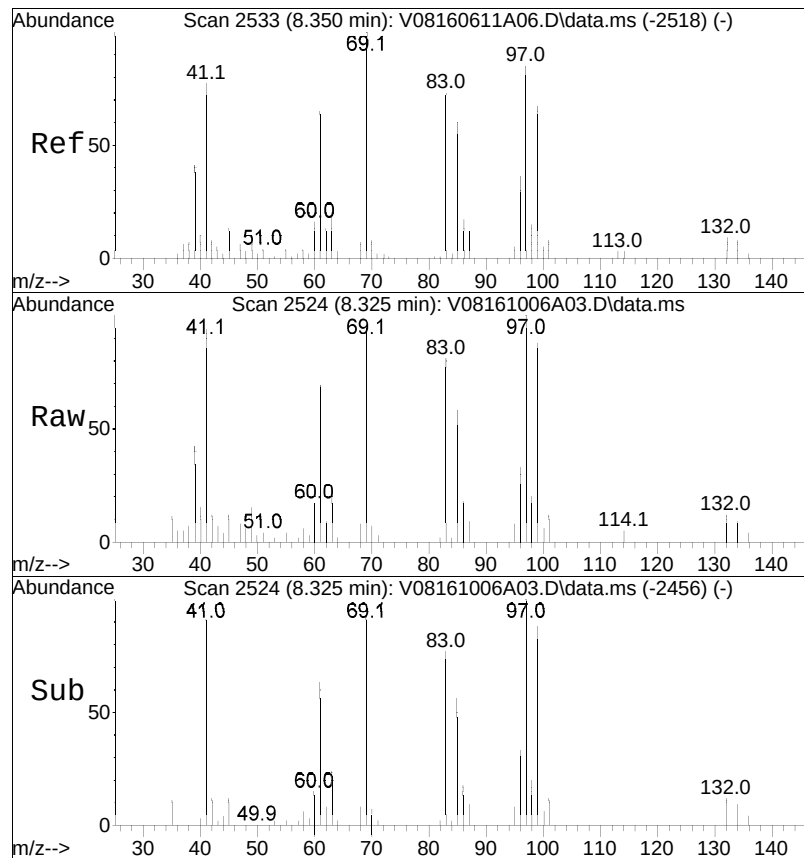




#65
 trans-1,3-Dichloropropene
 Concen: 9.71 ug/L
 RT: 8.136 min Scan# 2456
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

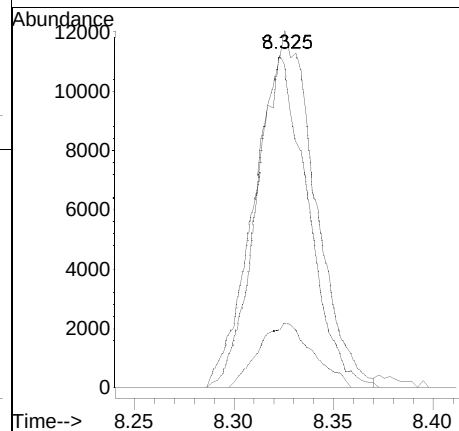
Tgt Ion:	75	Resp:	44623
Ion Ratio	Lower	Upper	
75	100		
77	31.1	12.1	52.1
39	61.4	45.2	85.2

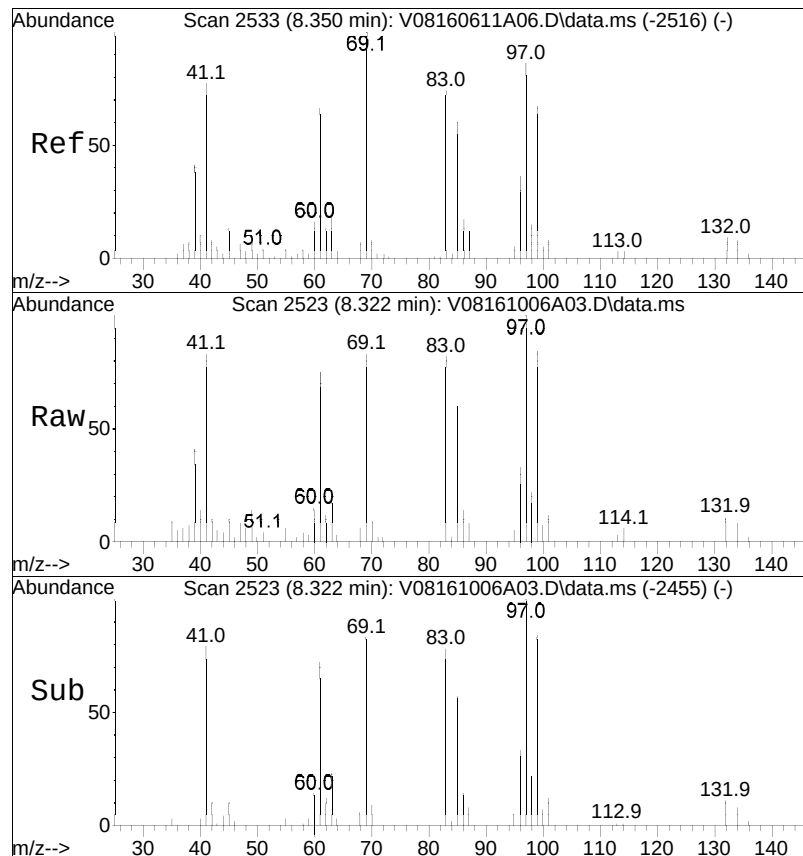




#67
 Ethyl methacrylate
 Concen: 7.73 ug/L
 RT: 8.325 min Scan# 2524
 Delta R.T. -0.011 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

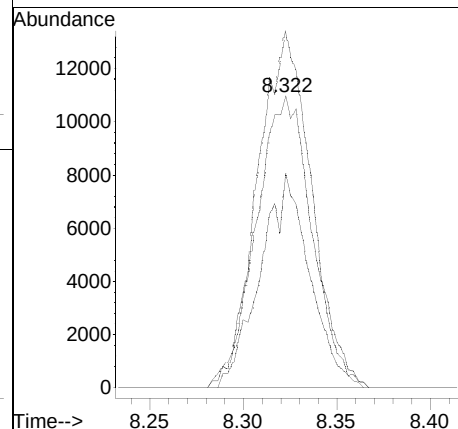
Tgt Ion:	69	Resp:	23895
Ion Ratio	Lower	Upper	
69	100		
99	89.0	55.8	95.8
86	17.3	0.0	36.2

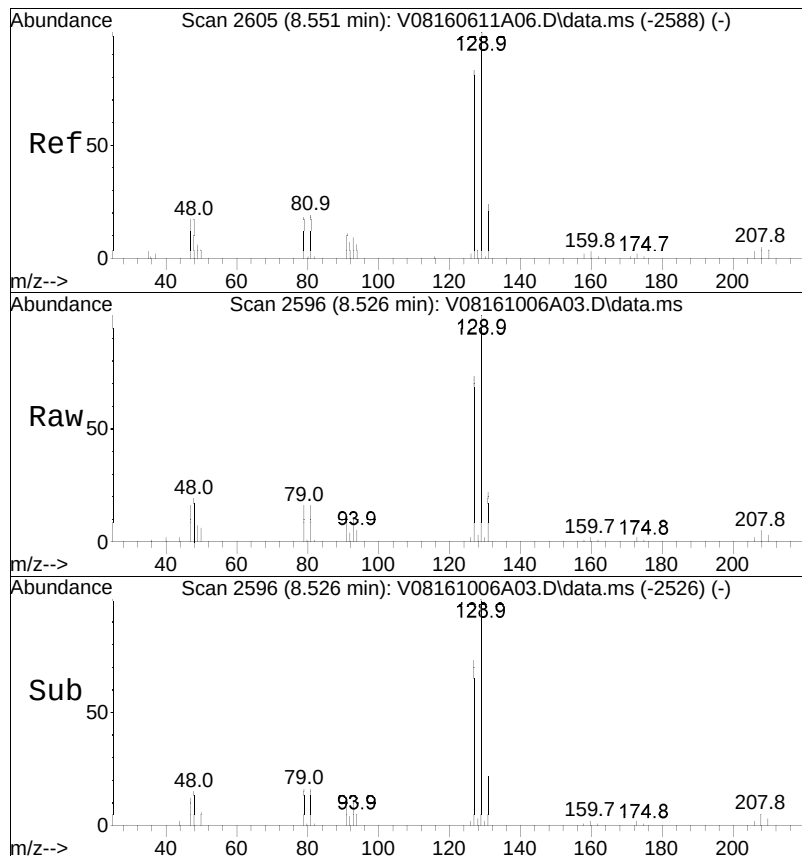




#68
 1,1,2-Trichloroethane
 Concen: 10.37 ug/L
 RT: 8.322 min Scan# 2523
 Delta R.T. -0.011 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

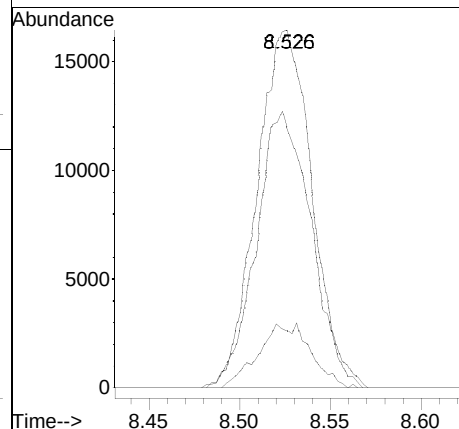
Tgt Ion:	83	Resp:	22500
Ion Ratio	Lower	Upper	
83	100		
97	119.4	98.1	138.1
85	65.8	46.0	86.0

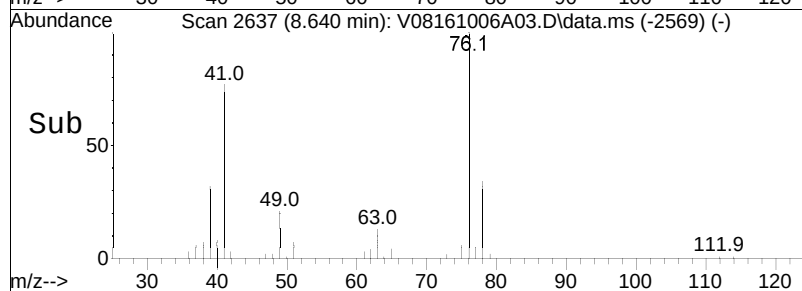
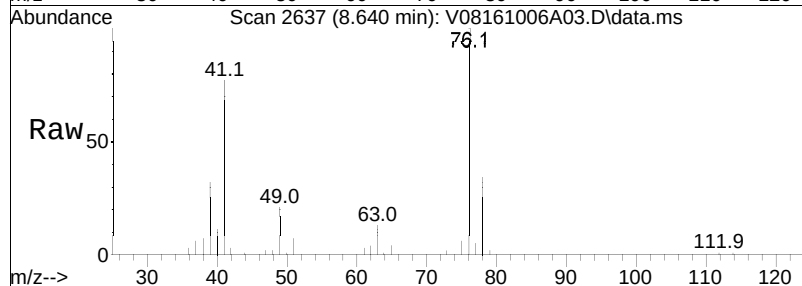
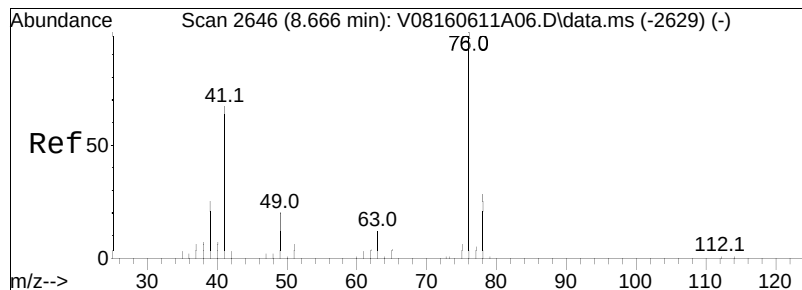




#69
 Chlorodibromomethane
 Concen: 10.29 ug/L
 RT: 8.526 min Scan# 2596
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

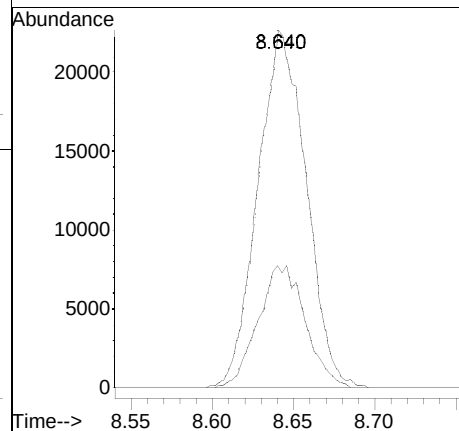
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	34508		
81	17.2		0.0	37.5
127	76.9		56.3	96.3

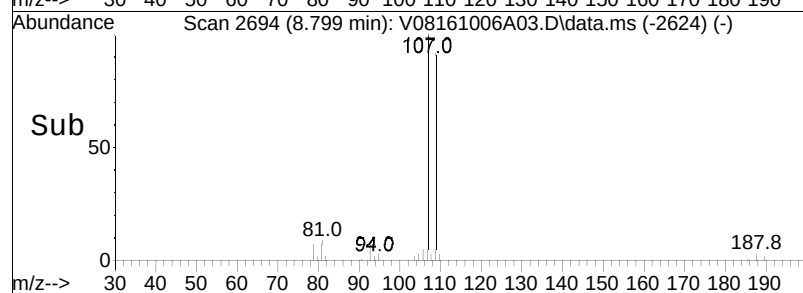
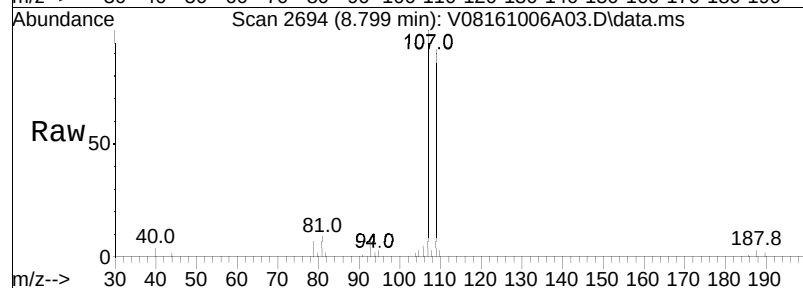
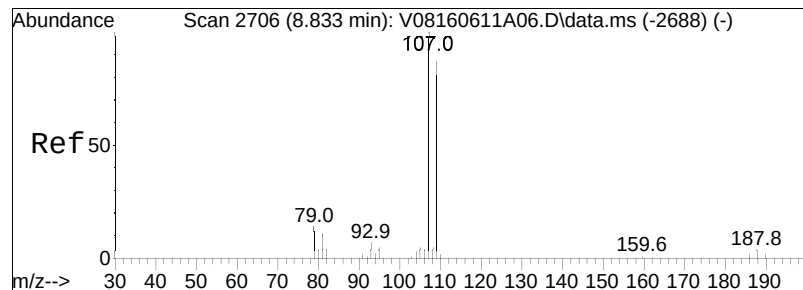




#70
 1,3-Dichloropropane
 Concen: 9.90 ug/L
 RT: 8.640 min Scan# 2637
 Delta R.T. -0.012 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

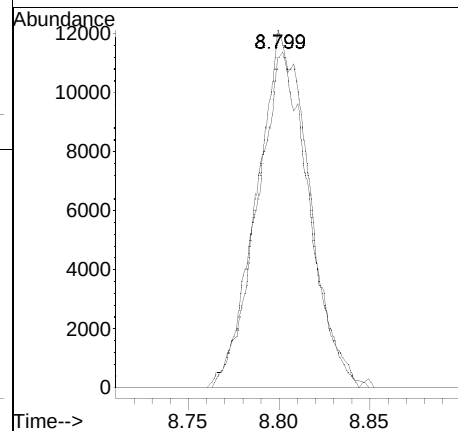
Tgt Ion	Ratio	Lower	Upper
76	100		
78	33.6	25.9	38.9

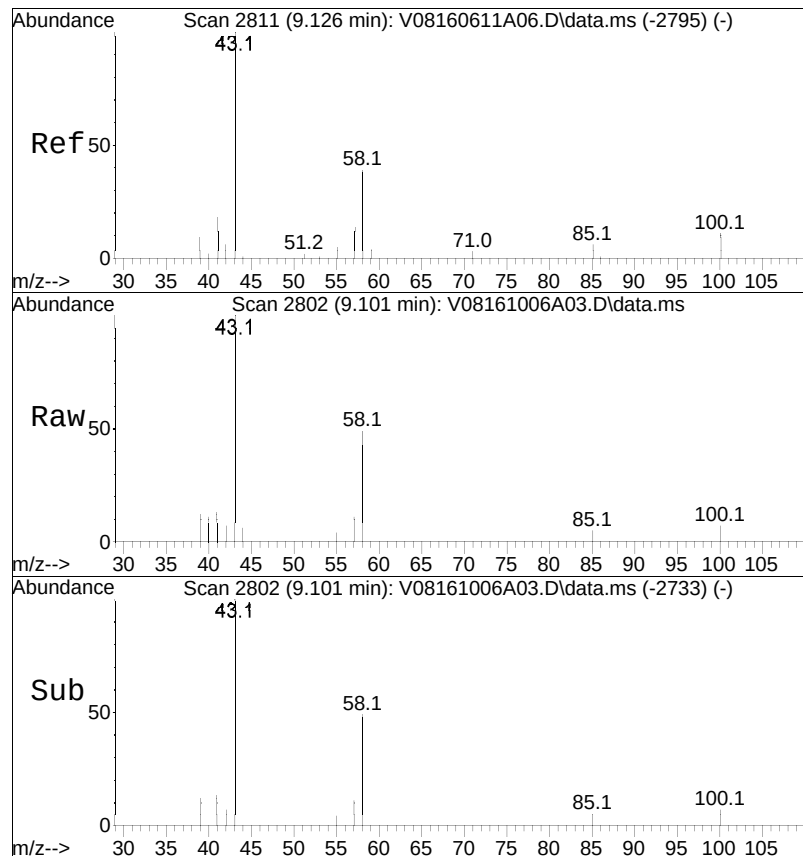




#71
 1,2-Dibromoethane
 Concen: 10.12 ug/L
 RT: 8.799 min Scan# 2694
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

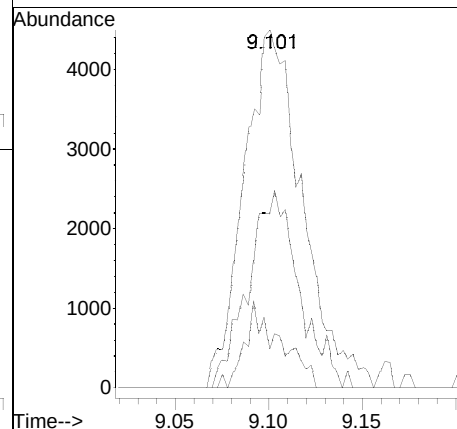
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.5	78.1	117.1

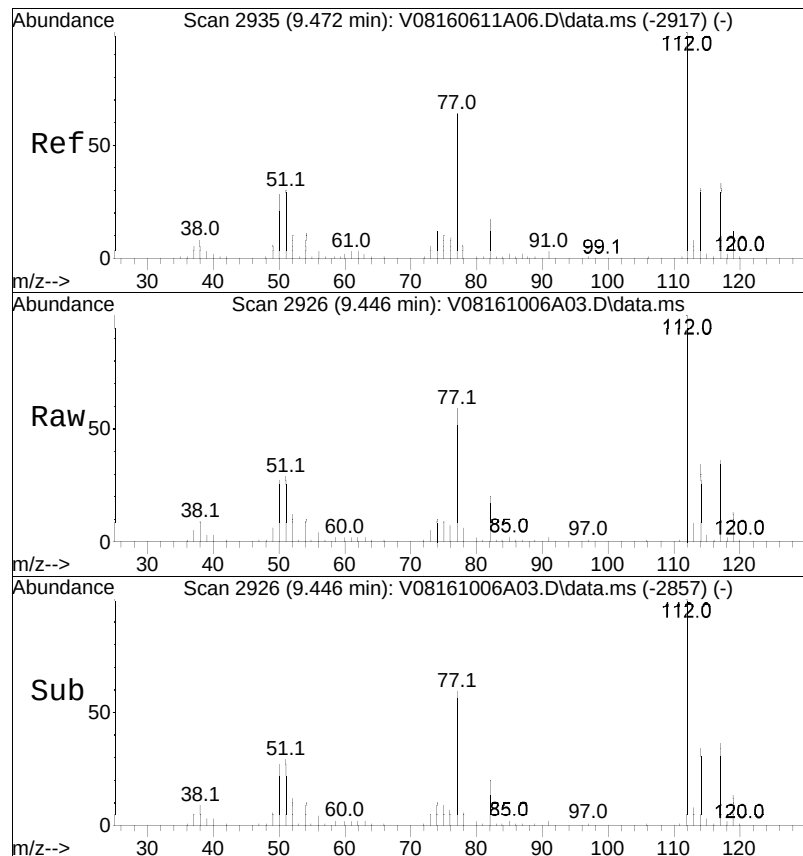




#72
 2-Hexanone
 Concen: 7.50 ug/L
 RT: 9.101 min Scan# 2802
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

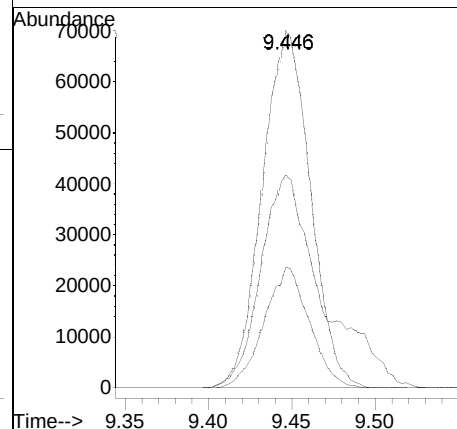
Tgt Ion:	43	Resp:	9657
Ion Ratio	Lower	Upper	
43	100		
58	48.1	40.6	60.8
57	14.7	14.7	22.1#

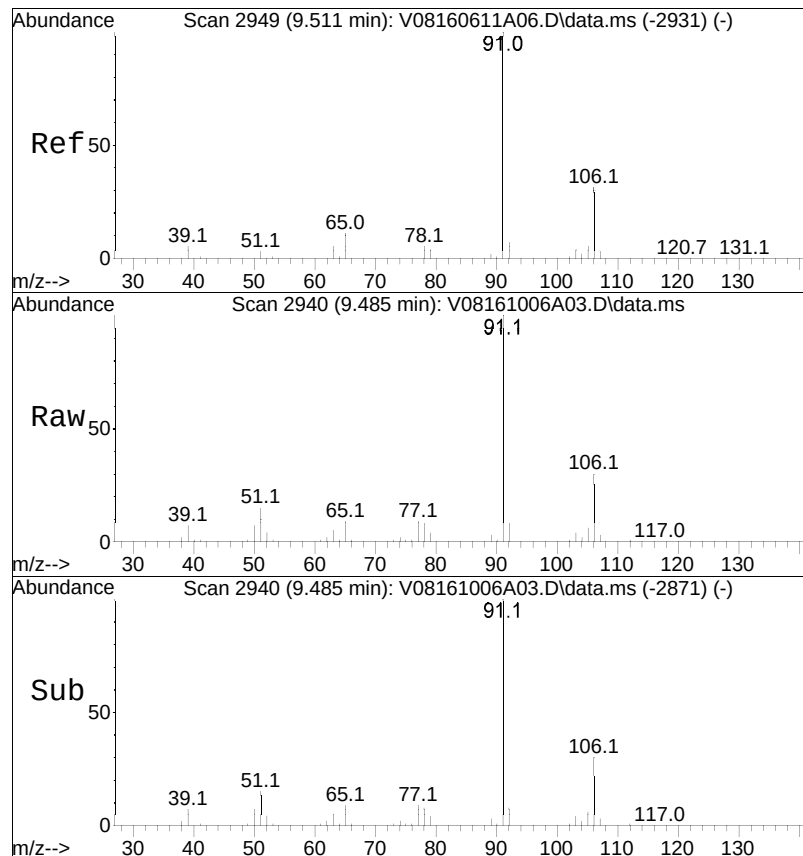




#73
 Chlorobenzene
 Concen: 9.81 ug/L
 RT: 9.446 min Scan# 2926
 Delta R.T. -0.009 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

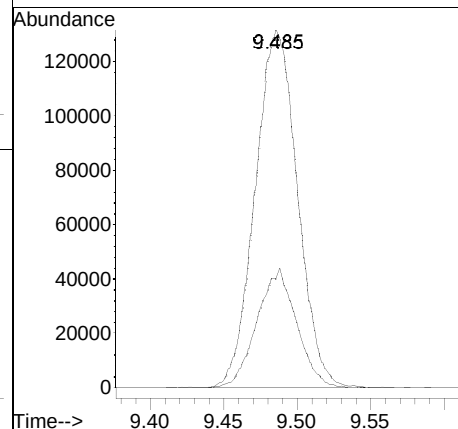
Tgt Ion	Ratio	Lower	Upper
112	100		
77	76.8	61.0	91.6
114	32.0	25.5	38.3

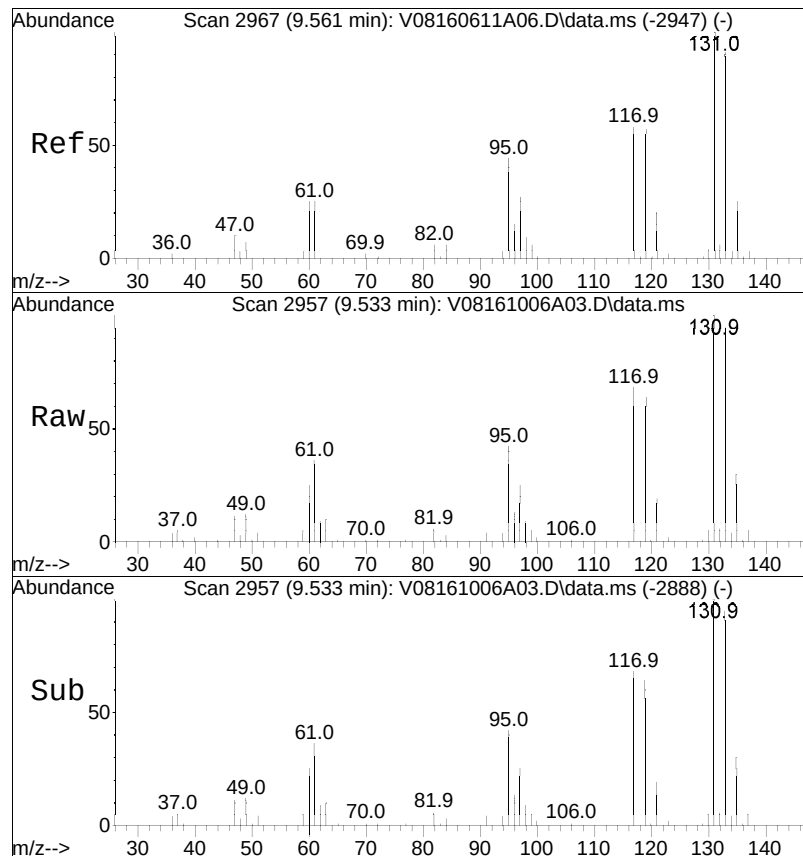




#74
 Ethylbenzene
 Concen: 10.23 ug/L
 RT: 9.485 min Scan# 2940
 Delta R.T. -0.009 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

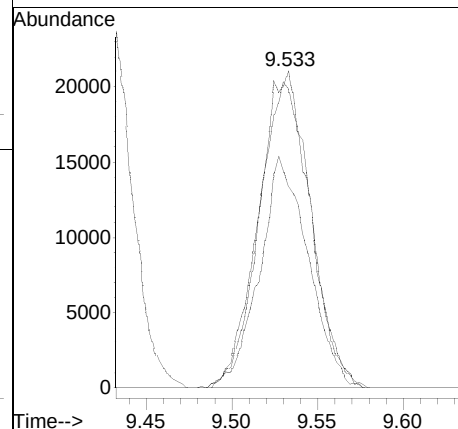
Tgt	Ion	Resp	Lower	Upper
91	100	260232		
106	31.5	24.2	36.2	

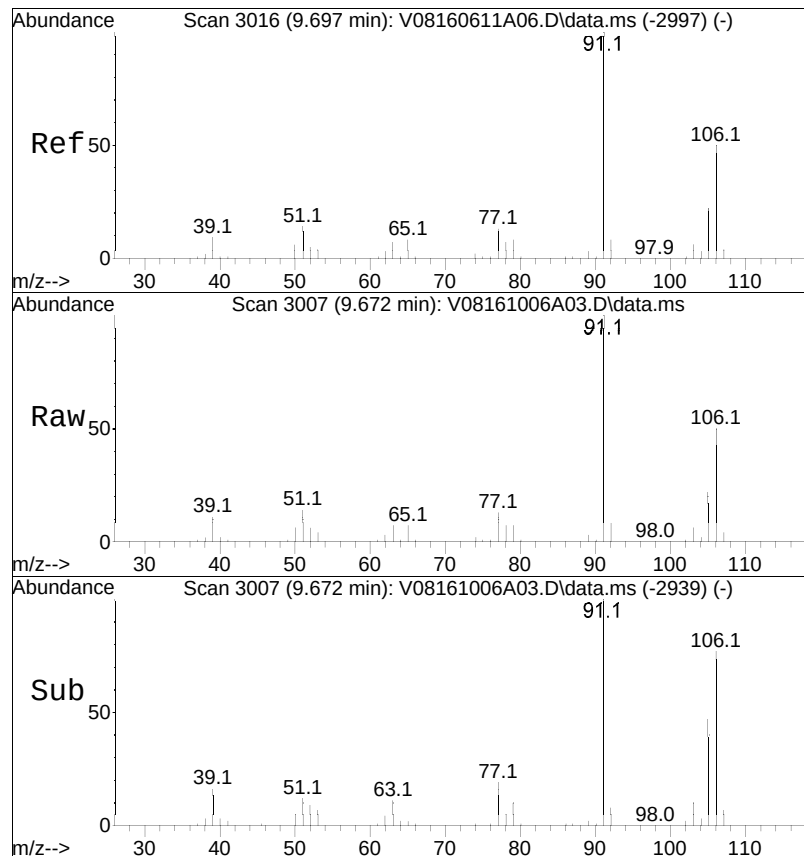




#75
 1,1,1,2-Tetrachloroethane
 Concen: 9.68 ug/L
 RT: 9.533 min Scan# 2957
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

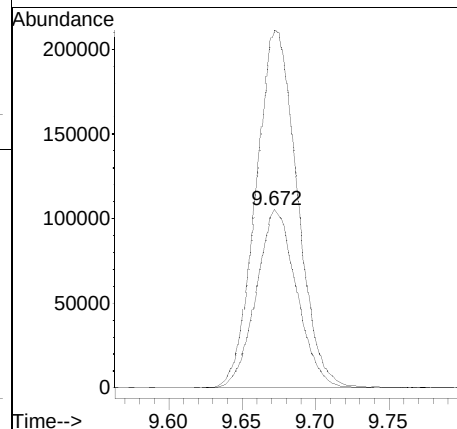
Tgt Ion:	131	Resp:	44471
Ion Ratio	Lower	Upper	
131	100		
133	95.6	76.8	116.8
119	68.4	44.9	84.9

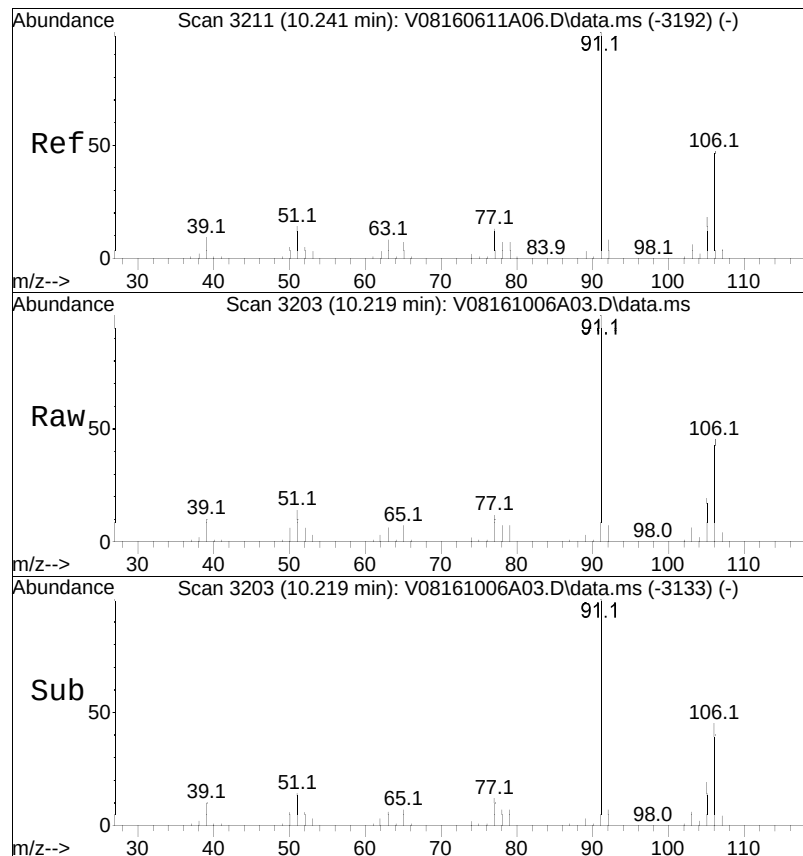




#76
 p/m Xylene
 Concen: 20.08 ug/L
 RT: 9.672 min Scan# 3007
 Delta R.T. -0.011 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

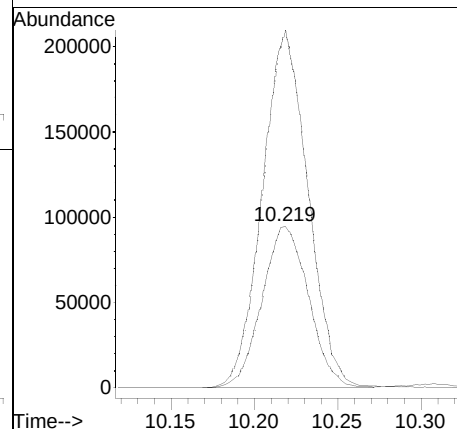
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	203.7	167.8	251.6	

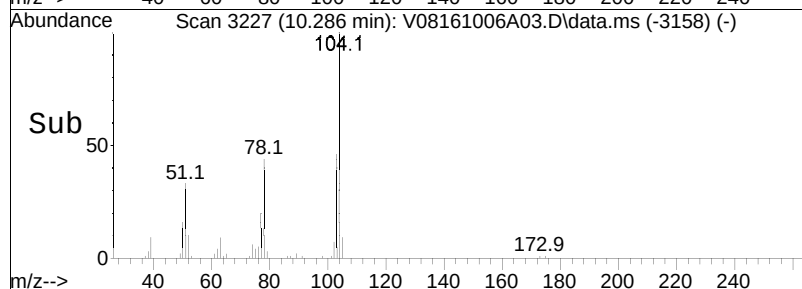
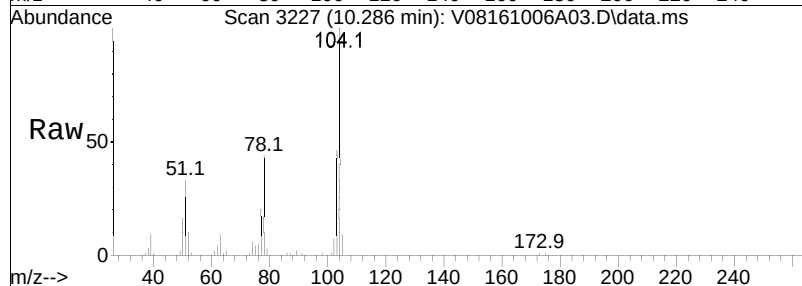
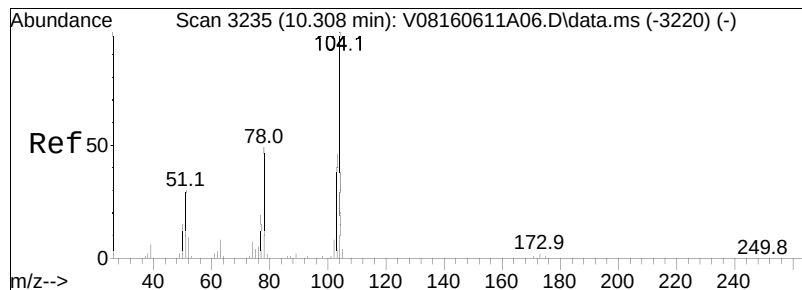




#77
 o Xylene
 Concen: 20.28 ug/L
 RT: 10.219 min Scan# 3203
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

Tgt Ion	106	91	Ratio	Lower	Upper
Resp	183185				
Ratio	100	215.9		176.2	264.4





#78

Styrene

Concen: 20.71 ug/L

RT: 10.286 min Scan# 3227

Delta R.T. -0.008 min

Lab File: V08161006A03.D

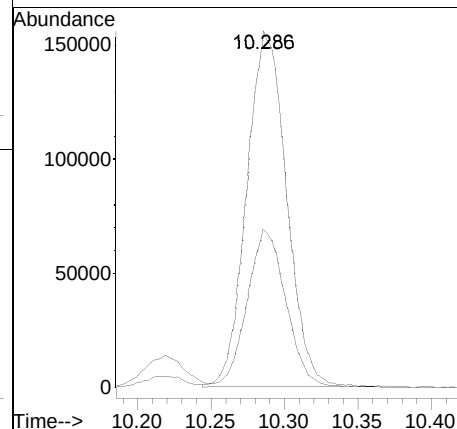
Acq: 6 Oct 2016 10:02 am

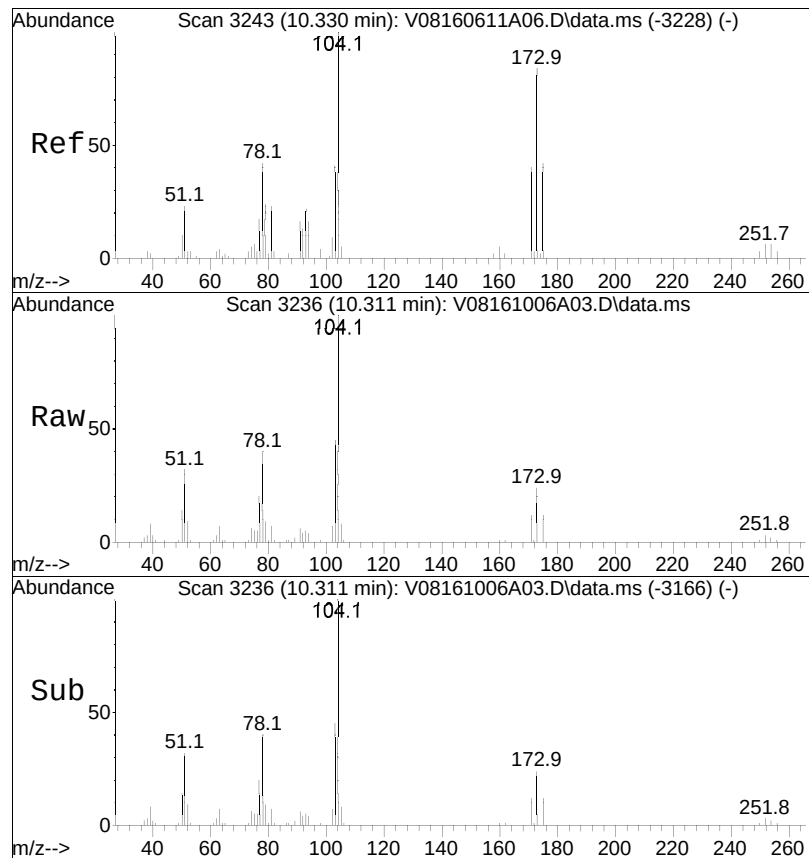
Tgt Ion:104 Resp: 291429

Ion Ratio Lower Upper

104 100

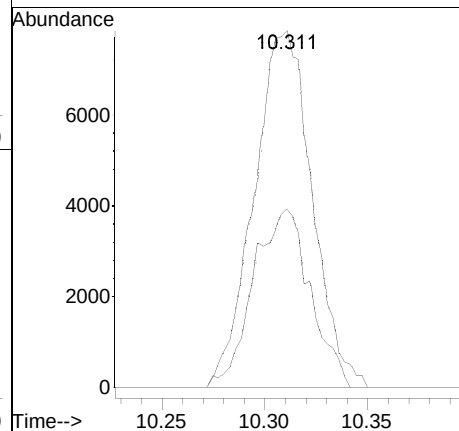
78 43.1 36.0 54.0

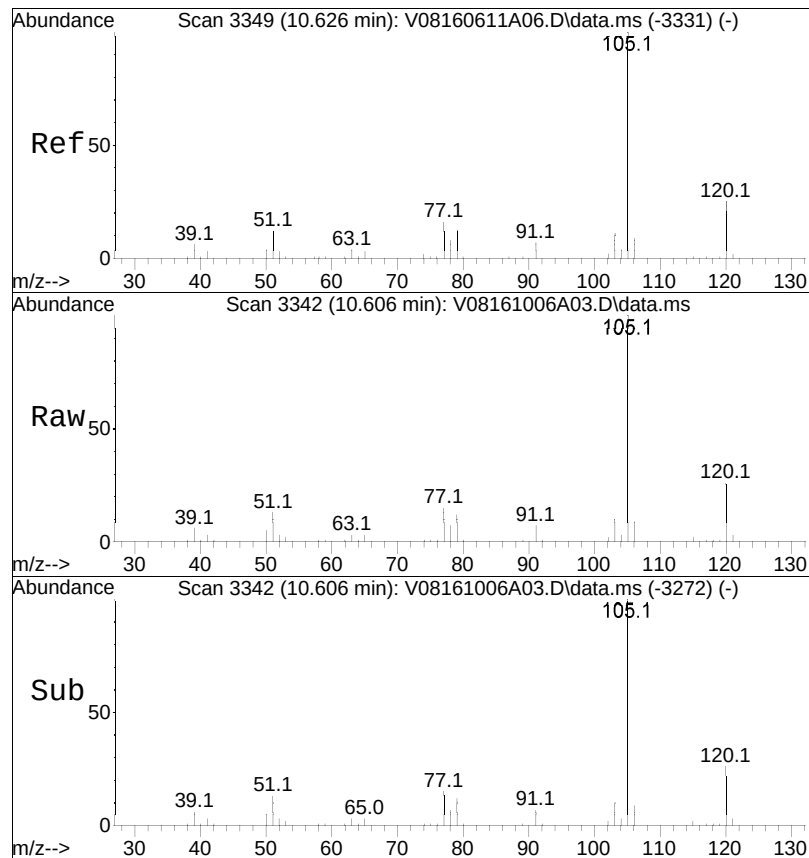




#80
 Bromoform
 Concen: 10.57 ug/L
 RT: 10.311 min Scan# 3236
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

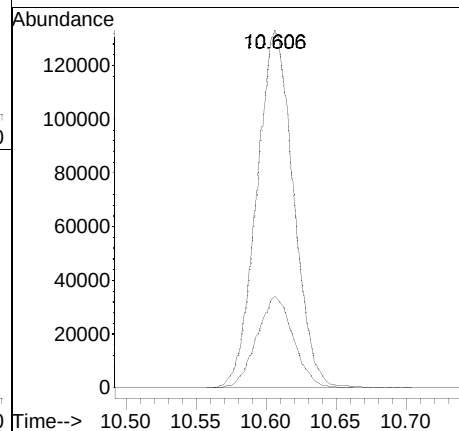
Tgt Ion:173 Resp: 15341
 Ion Ratio Lower Upper
 173 100
 175 49.1 27.7 67.7

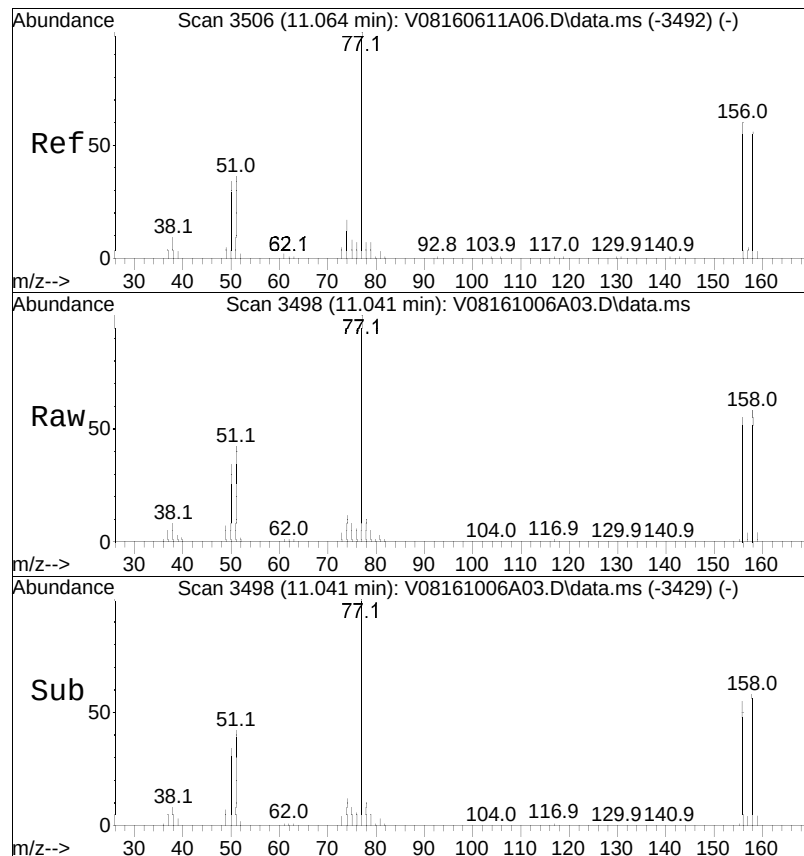




#82
 Isopropylbenzene
 Concen: 10.13 ug/L
 RT: 10.606 min Scan# 3342
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	6.7	46.7





#84

Bromobenzene

Concen: 10.19 ug/L

RT: 11.041 min Scan# 3498

Delta R.T. -0.009 min

Lab File: V08161006A03.D

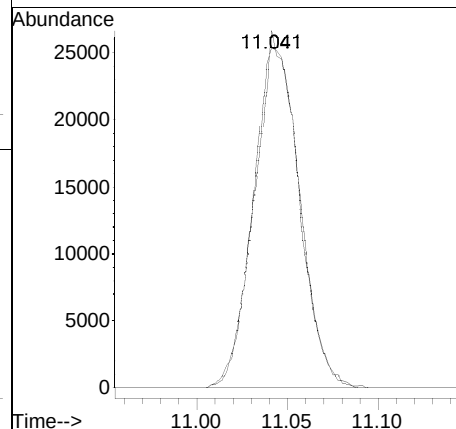
Acq: 6 Oct 2016 10:02 am

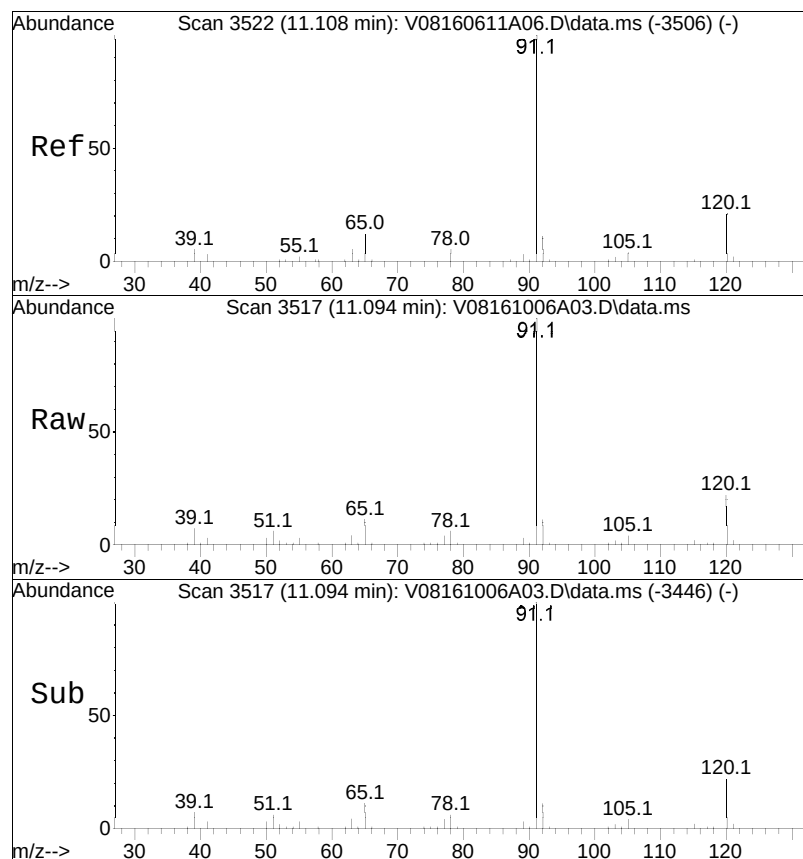
Tgt Ion:156 Resp: 45388

Ion Ratio Lower Upper

156 100

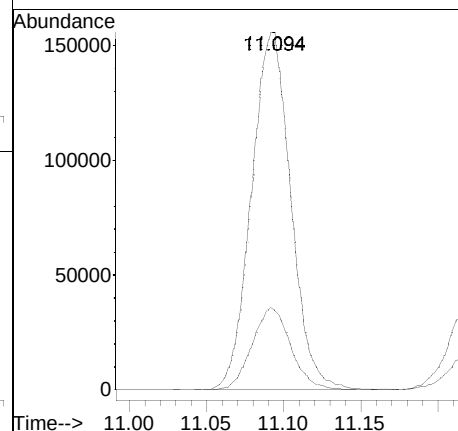
158 98.0 78.0 117.0

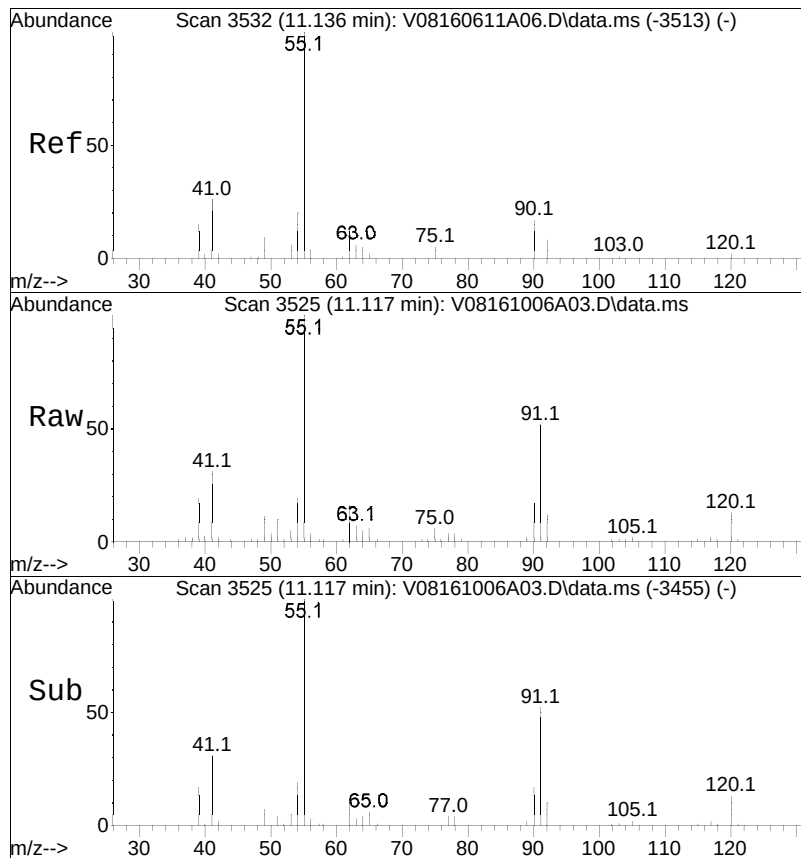




#85
 n-Propylbenzene
 Concen: 10.15 ug/L
 RT: 11.094 min Scan# 3517
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

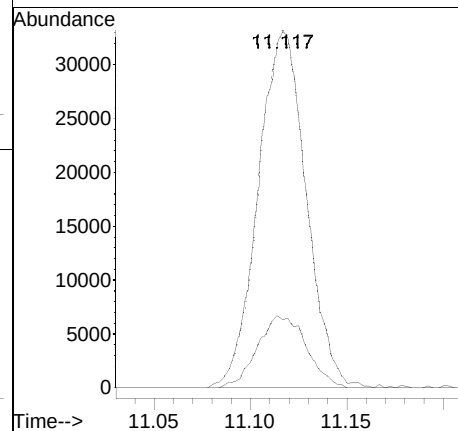
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	17.2	25.8

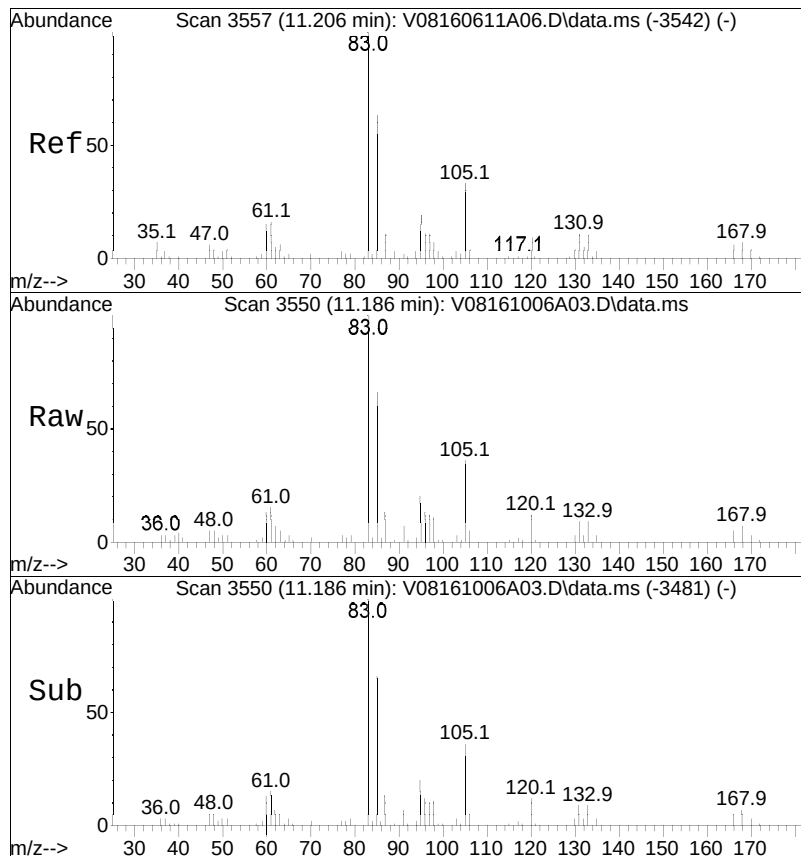




#86
 1,4-Dichlorobutane
 Concen: 10.85 ug/L
 RT: 11.117 min Scan# 3525
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

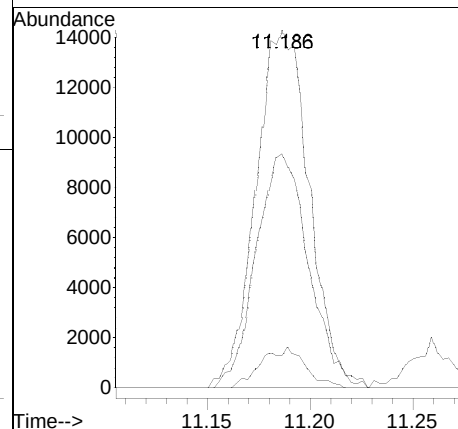
Tgt Ion	Ratio	Lower	Upper
55	100		
54	20.8	15.8	23.8

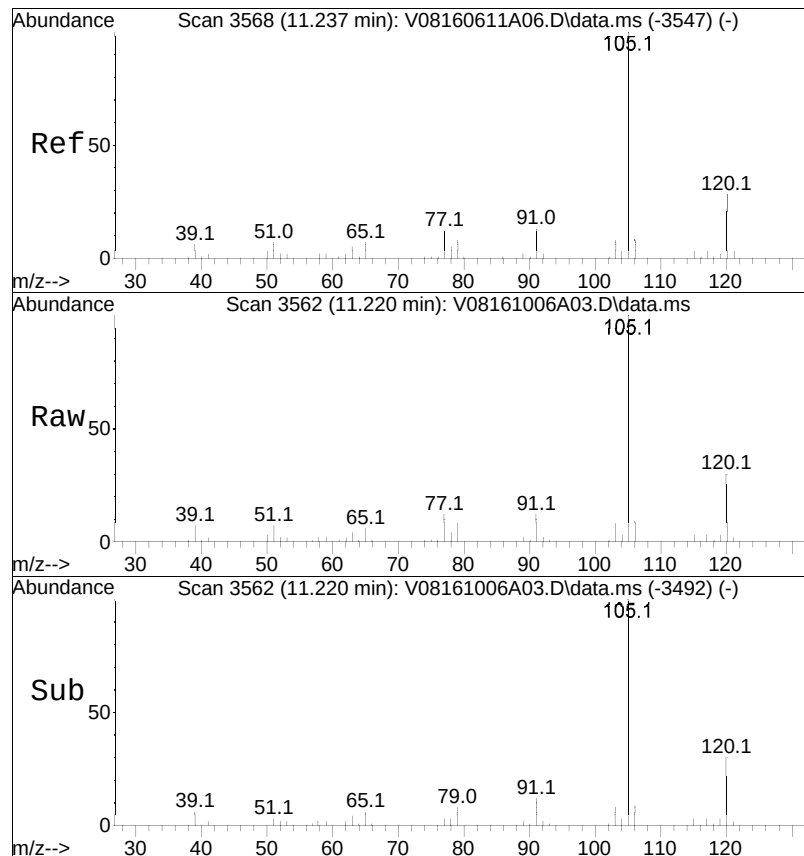




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.85 ug/L
 RT: 11.186 min Scan# 3550
 Delta R.T. -0.009 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

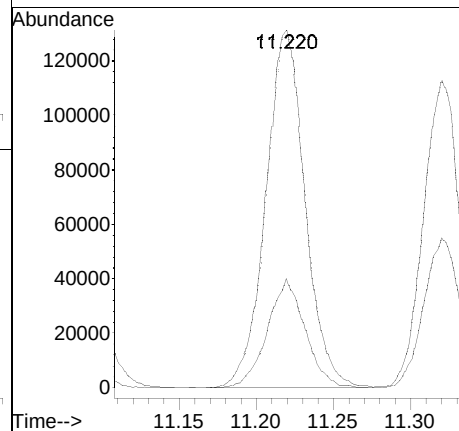
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	25482		
131	9.6		0.0	28.9
85	65.2		47.6	87.6

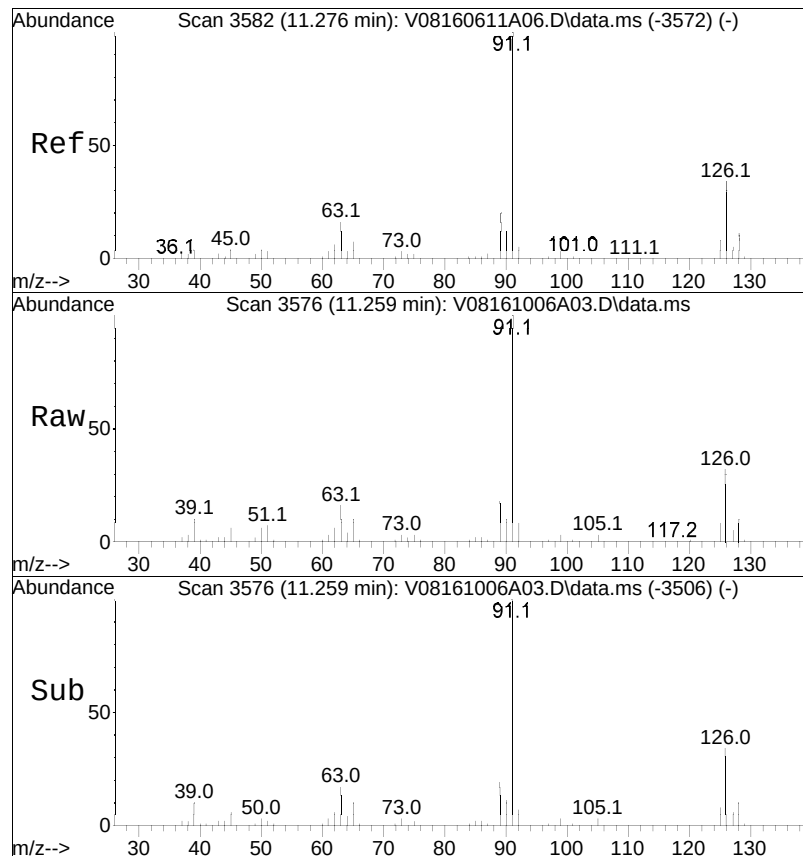




#88
 4-Ethyltoluene
 Concen: 10.37 ug/L
 RT: 11.220 min Scan# 3562
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

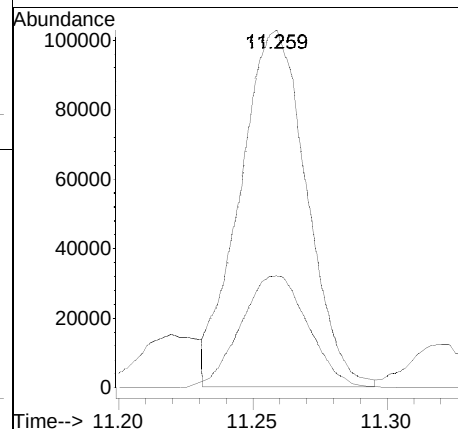
Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.4	19.4	40.4

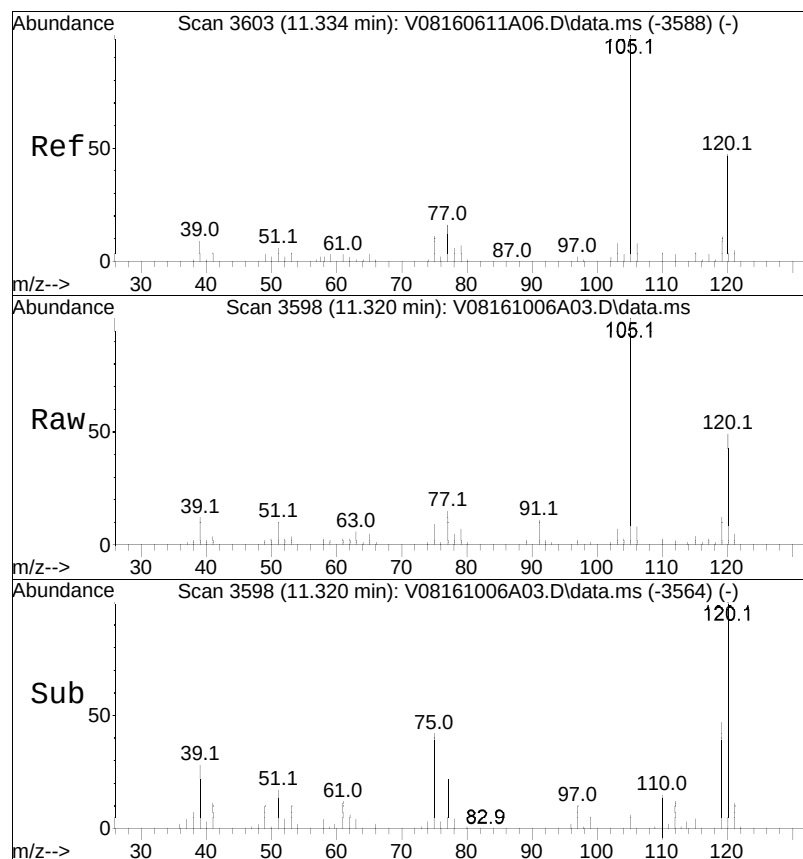




#89
 2-Chlorotoluene
 Concen: 10.91 ug/L
 RT: 11.259 min Scan# 3576
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

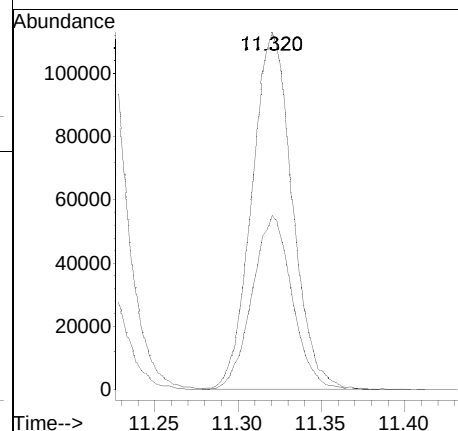
Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.9	25.3	37.9

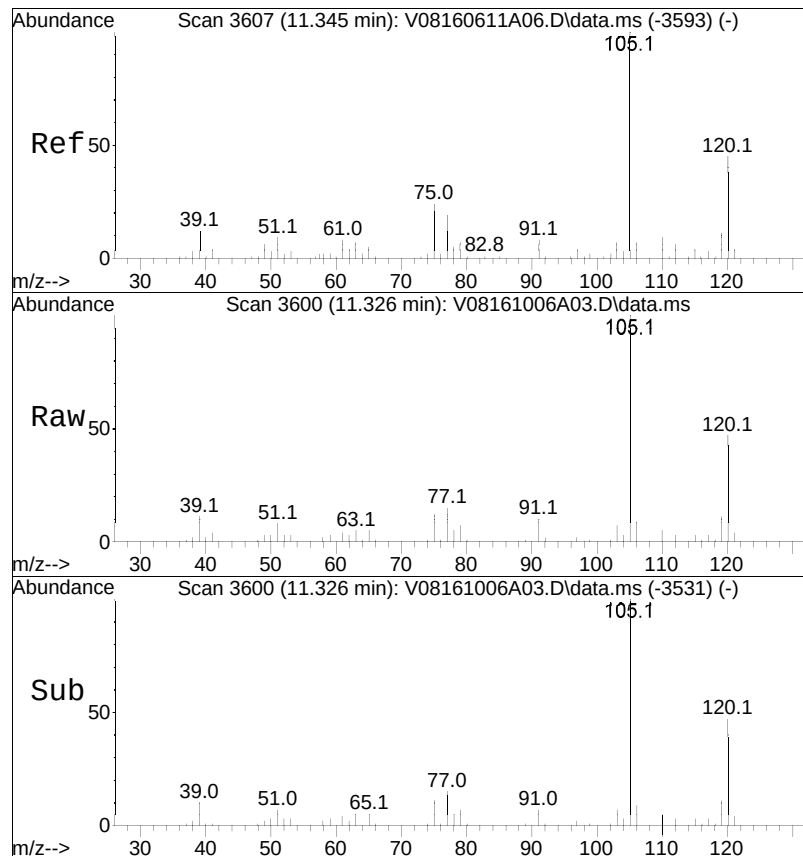




#90
 1,3,5-Trimethylbenzene
 Concen: 10.36 ug/L
 RT: 11.320 min Scan# 3598
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

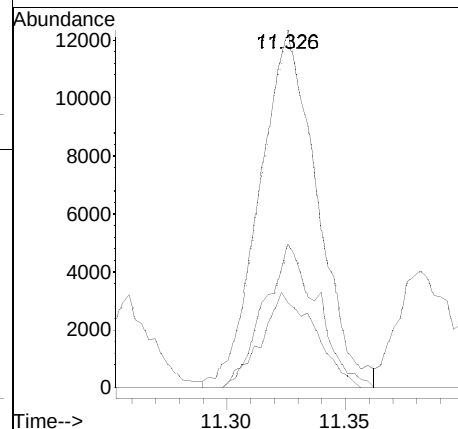
Tgt Ion	105	120	Ratio	Lower	Upper
Resp	189035				
Ion Ratio	100	48.8			
			28.0		42.0#

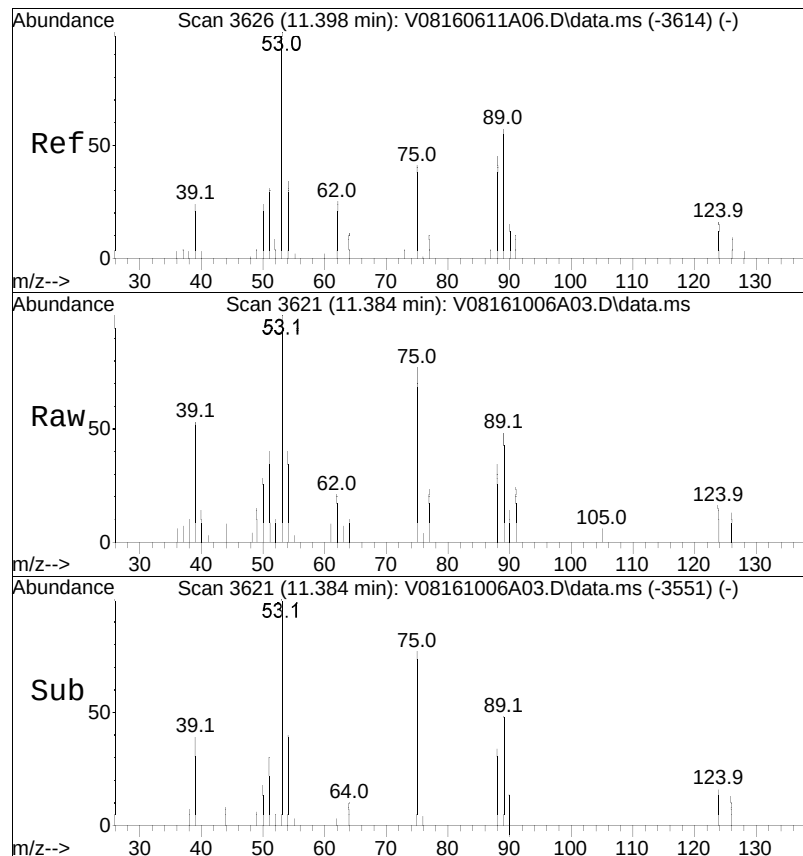




#91
 1,2,3-Trichloropropane
 Concen: 10.79 ug/L
 RT: 11.326 min Scan# 3600
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

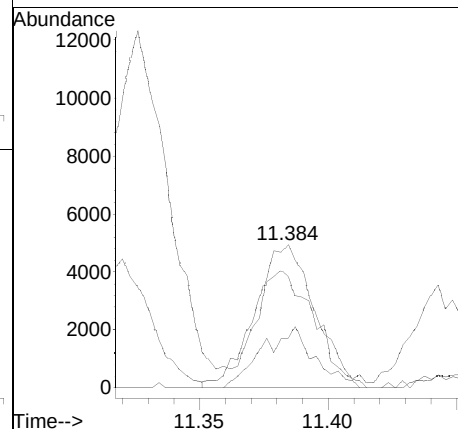
Tgt Ion:	75	Resp:	20757
Ion Ratio	Lower	Upper	
75	100		
110	37.4	23.5	48.7
112	25.0	15.2	31.6

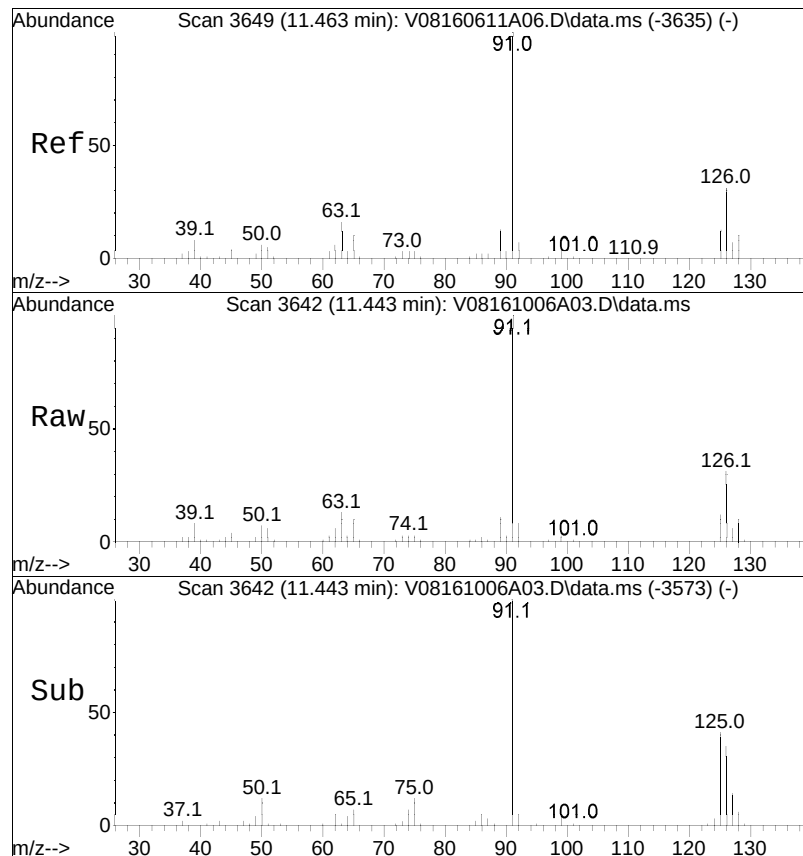




#92
 trans-1,4-Dichloro-2-butene
 Concen: 10.52 ug/L
 RT: 11.384 min Scan# 3621
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

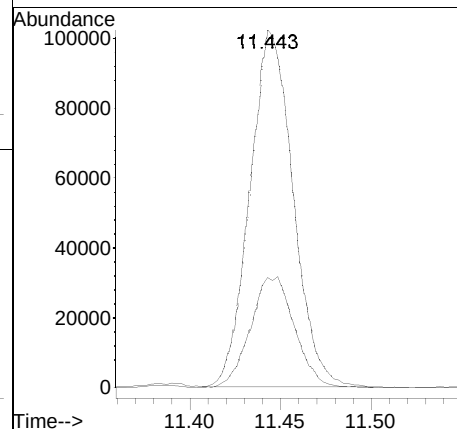
Tgt Ion	Ratio	Lower	Upper
53	100		
88	23.8	25.7	38.5#
75	80.5	63.8	95.8

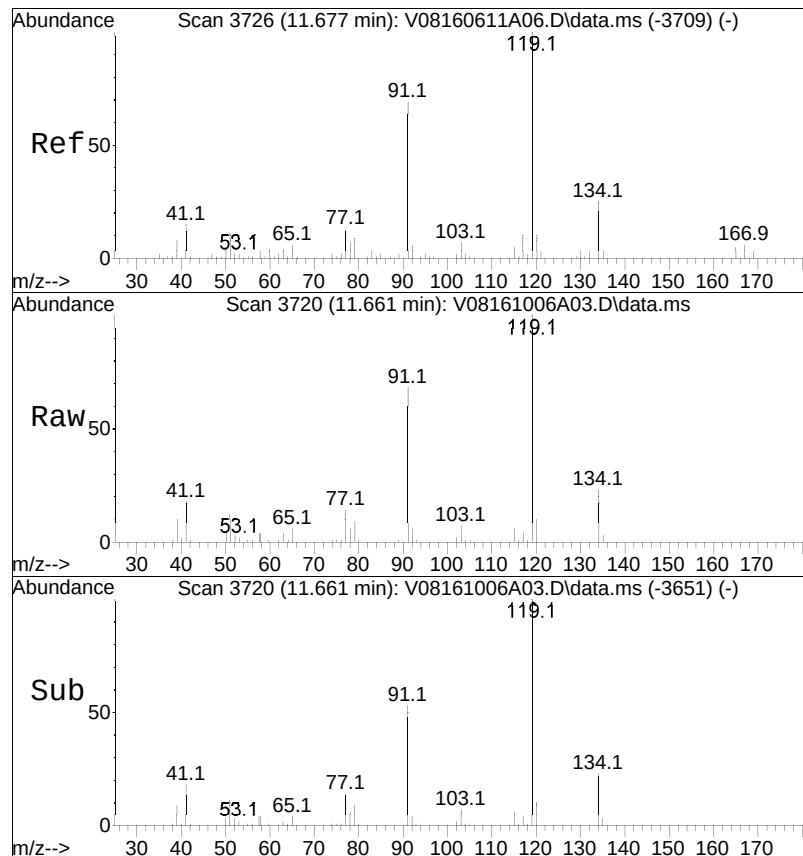




#93
 4-Chlorotoluene
 Concen: 10.87 ug/L
 RT: 11.443 min Scan# 3642
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

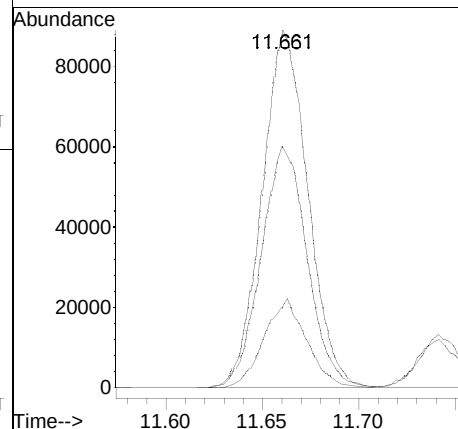
Tgt Ion: 91 Resp: 167188
 Ion Ratio Lower Upper
 91 100
 126 32.2 0.0 0.0#

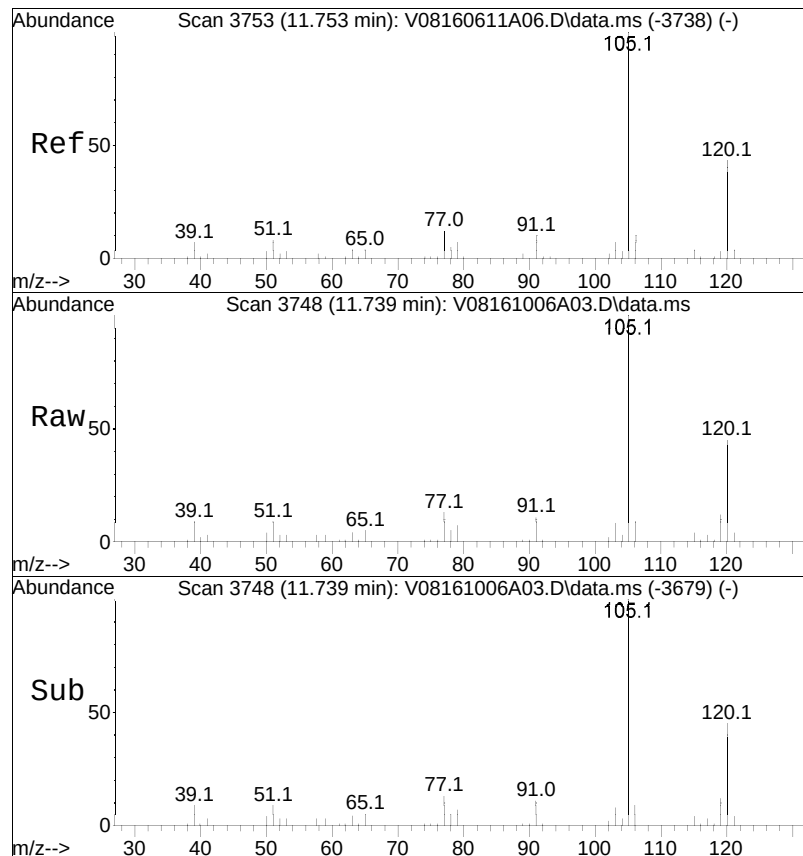




#94
 tert-Butylbenzene
 Concen: 8.24 ug/L
 RT: 11.661 min Scan# 3720
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

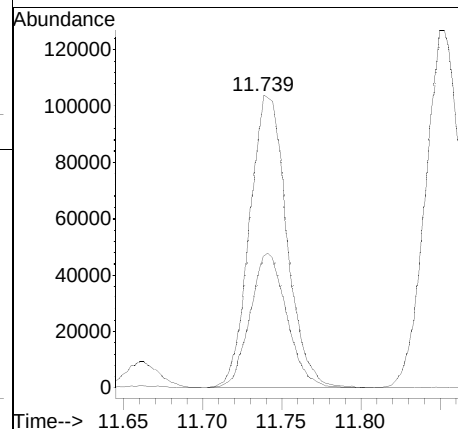
Tgt	Ion	Ratio	Lower	Upper
119	100			
91	68.3	47.2	70.8	
134	23.4	18.2	27.4	

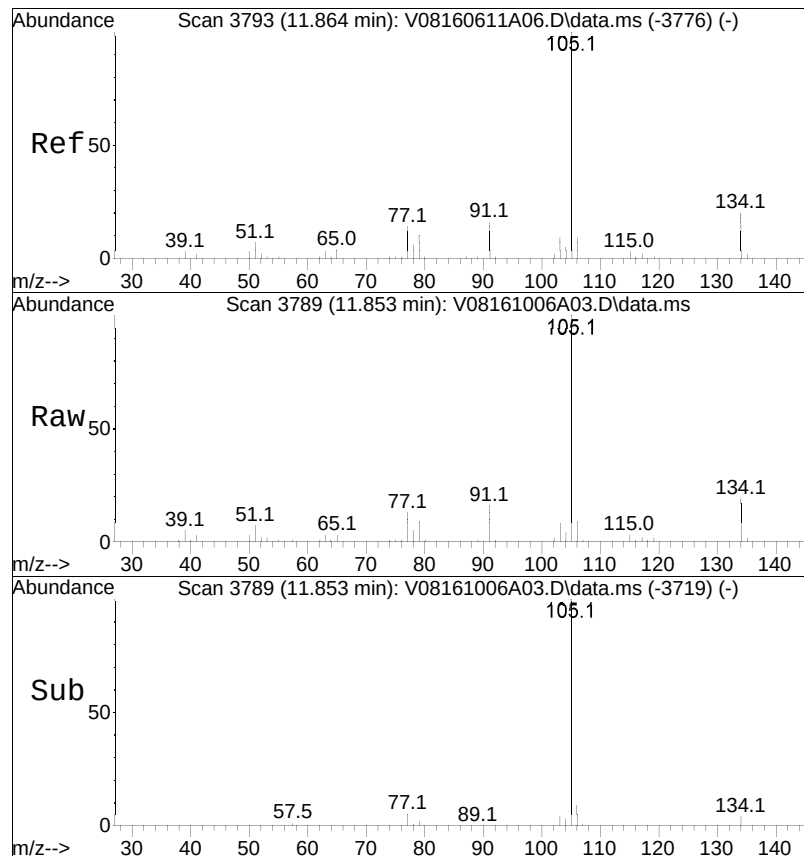




#97
 1,2,4-Trimethylbenzene
 Concen: 10.21 ug/L
 RT: 11.739 min Scan# 3748
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

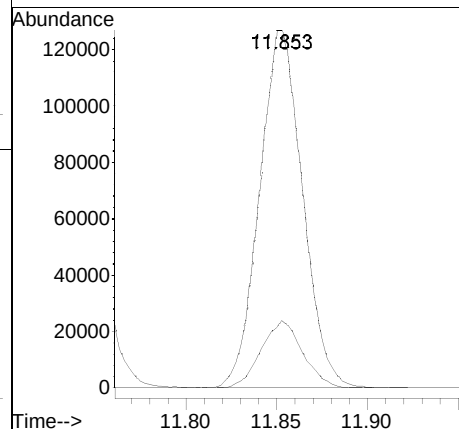
Tgt Ion:105 Resp: 169656
 Ion Ratio Lower Upper
 105 100
 120 45.4 35.9 53.9

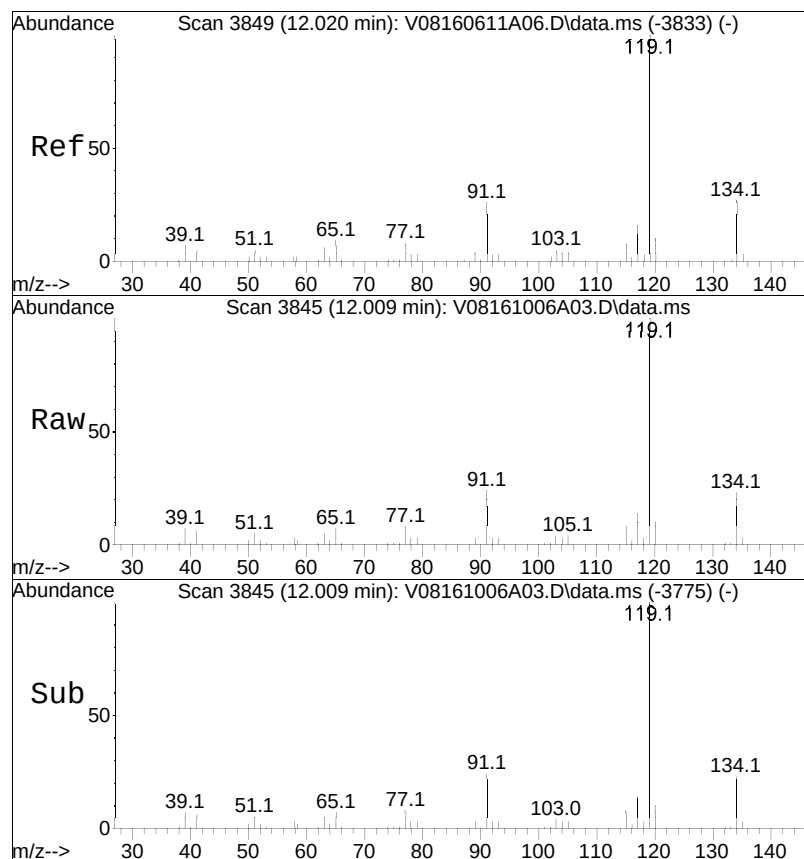




#98
 sec-Butylbenzene
 Concen: 9.18 ug/L
 RT: 11.853 min Scan# 3789
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

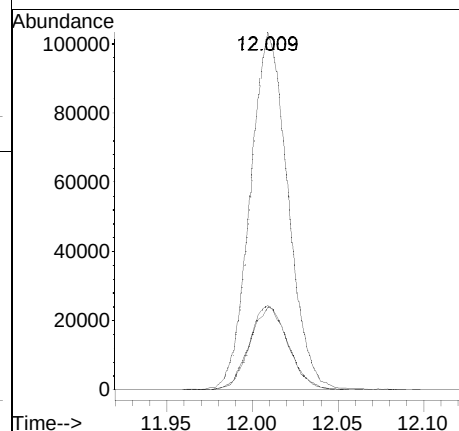
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	18.3	12.5	26.1	

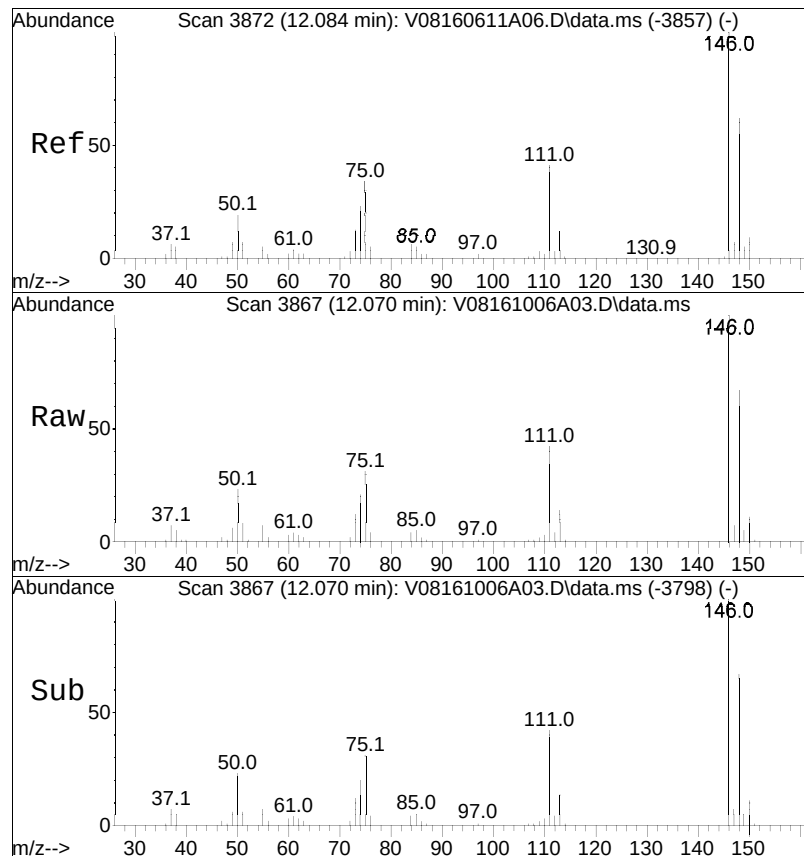




#99
 p-Isopropyltoluene
 Concen: 9.13 ug/L
 RT: 12.009 min Scan# 3845
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

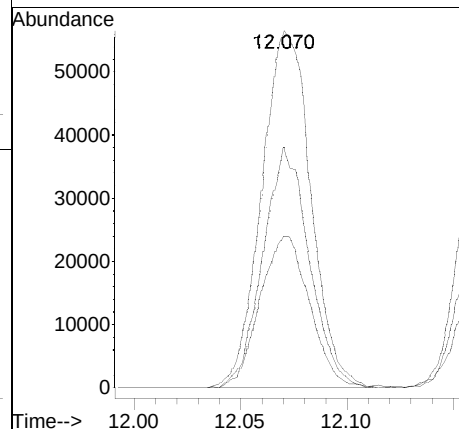
Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.8	16.3	33.9
91	24.3	16.6	34.4

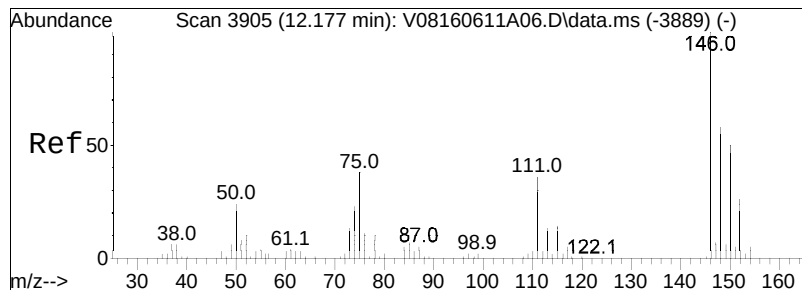




#100
 1,3-Dichlorobenzene
 Concen: 9.76 ug/L
 RT: 12.070 min Scan# 3867
 Delta R.T. -0.009 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

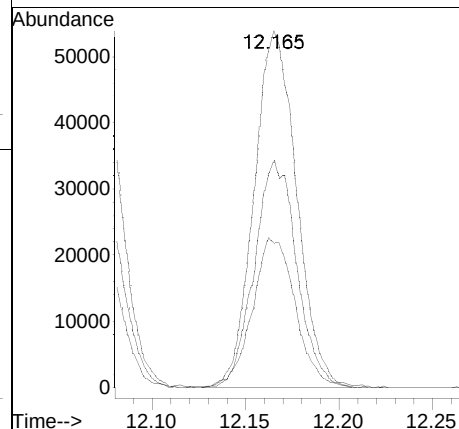
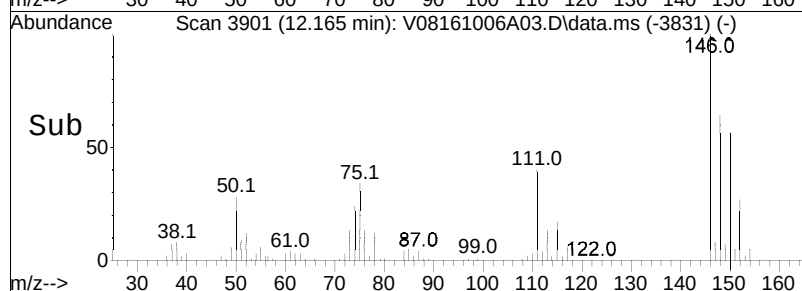
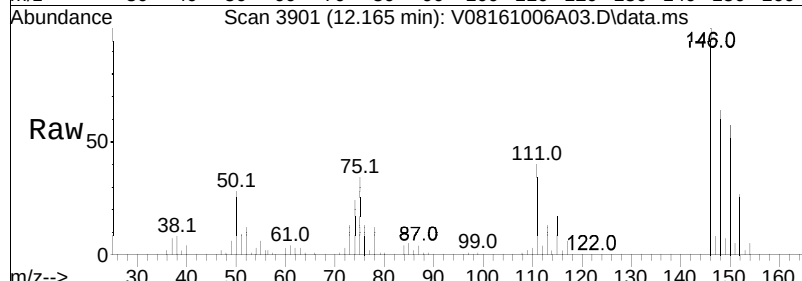
Tgt Ion:	146	Resp:	90545
Ion Ratio	Lower	Upper	
146	100		
111	42.9	27.0	56.0
148	63.6	41.0	85.0

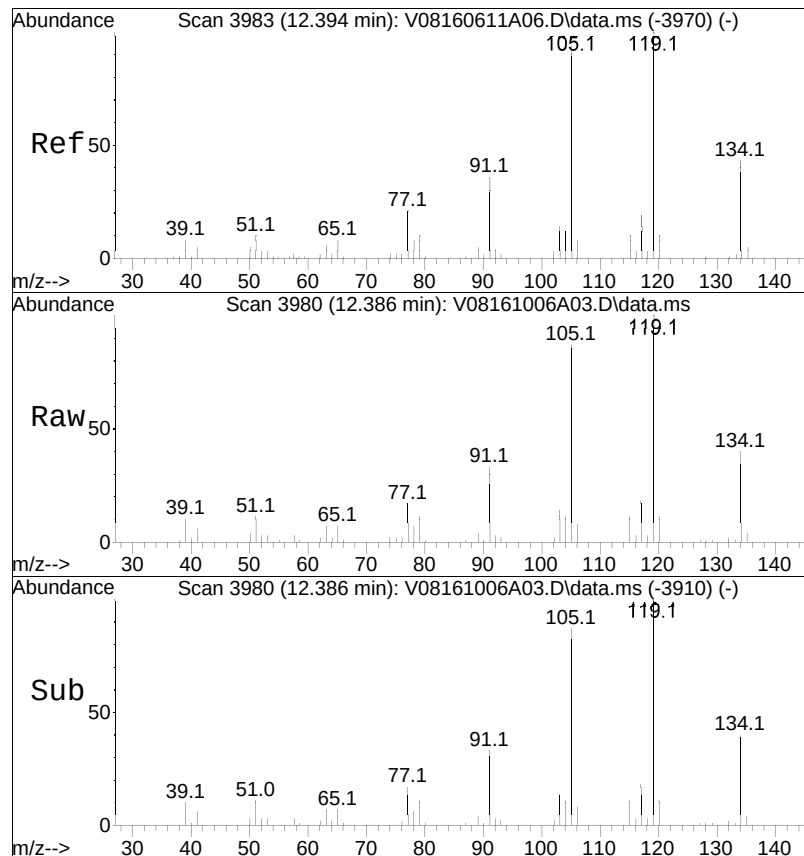




#101
 1,4-Dichlorobenzene
 Concen: 9.52 ug/L
 RT: 12.165 min Scan# 3901
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

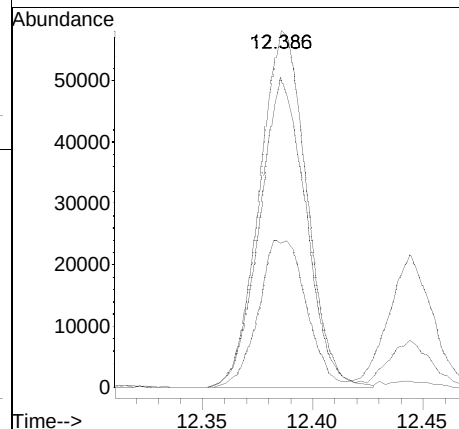
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	32.7	49.1
148	63.6	49.6	74.4

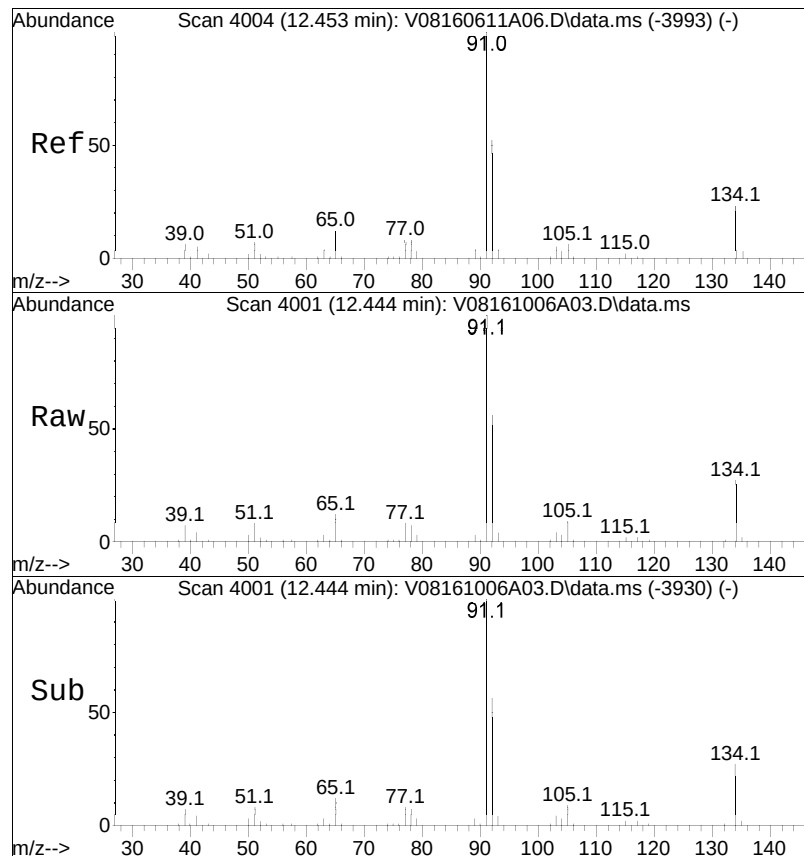




#102
 p-Diethylbenzene
 Concen: 8.15 ug/L
 RT: 12.386 min Scan# 3980
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

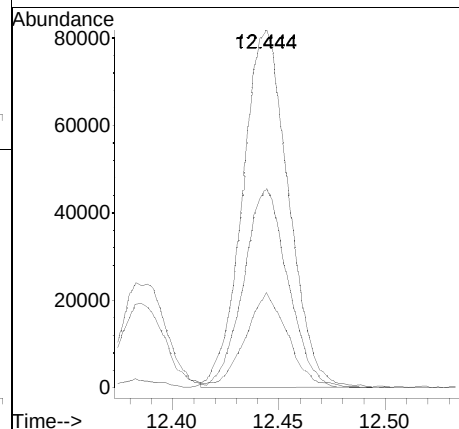
Tgt Ion	Ratio	Lower	Upper
119	100		
105	85.1	57.2	118.8
134	42.0	29.3	60.8

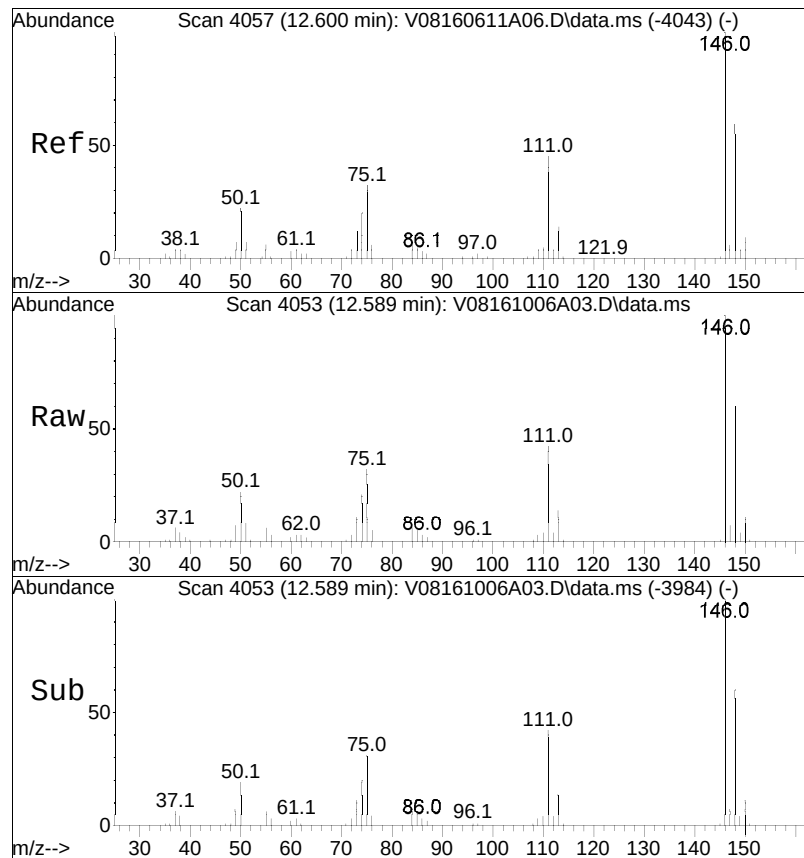




#103
 n-Butylbenzene
 Concen: 8.26 ug/L
 RT: 12.444 min Scan# 4001
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

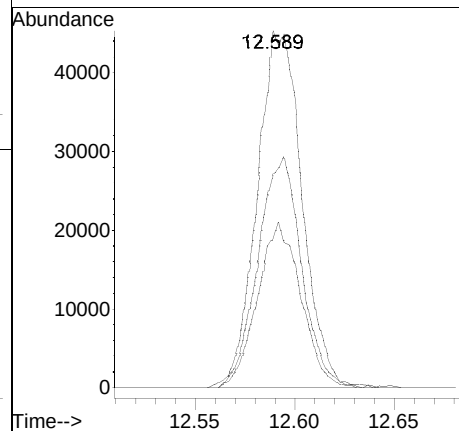
Tgt Ion:	91	Resp:	121673
Ion Ratio	Lower	Upper	
91	100		
92	54.4	43.4	65.2
134	24.8	19.8	29.6

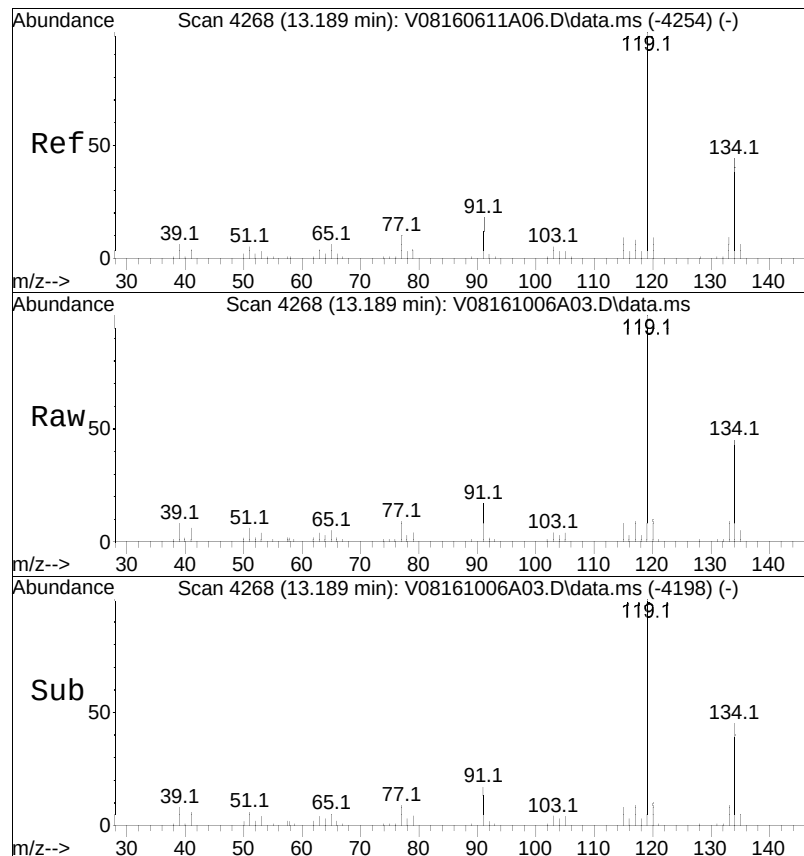




#104
 1,2-Dichlorobenzene
 Concen: 9.71 ug/L
 RT: 12.589 min Scan# 4053
 Delta R.T. -0.008 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

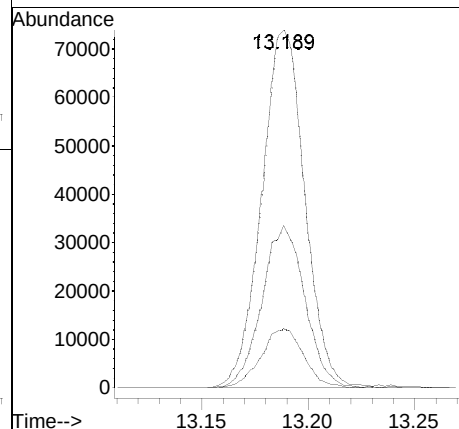
Tgt Ion:	146	Resp:	70541
Ion Ratio	Lower	Upper	
146	100		
111	44.9	28.0	58.1
148	62.9	41.3	85.7

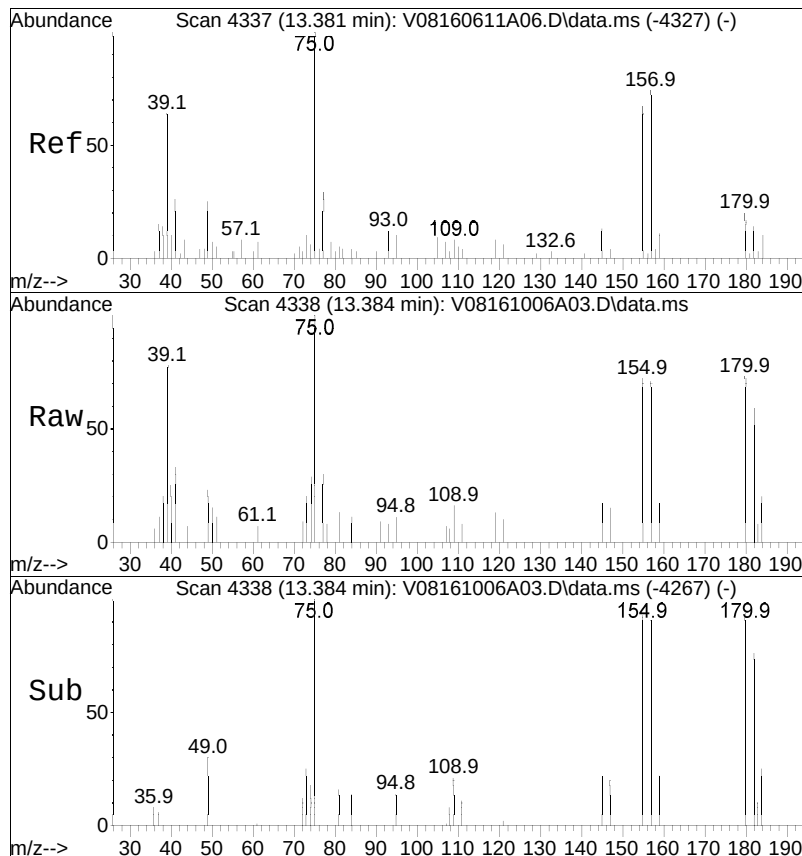




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 8.39 ug/L
 RT: 13.189 min Scan# 4268
 Delta R.T. -0.005 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

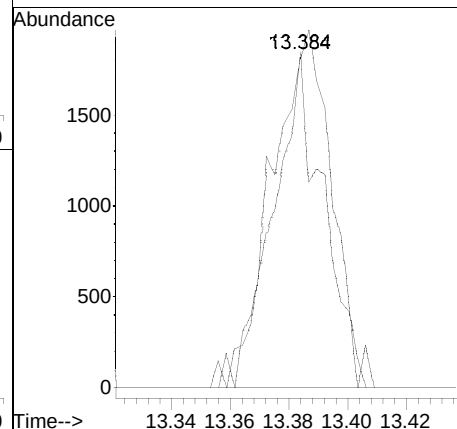
Tgt Ion	Ratio	Lower	Upper
119	100		
134	45.3	29.8	62.0
91	16.4	11.1	23.1

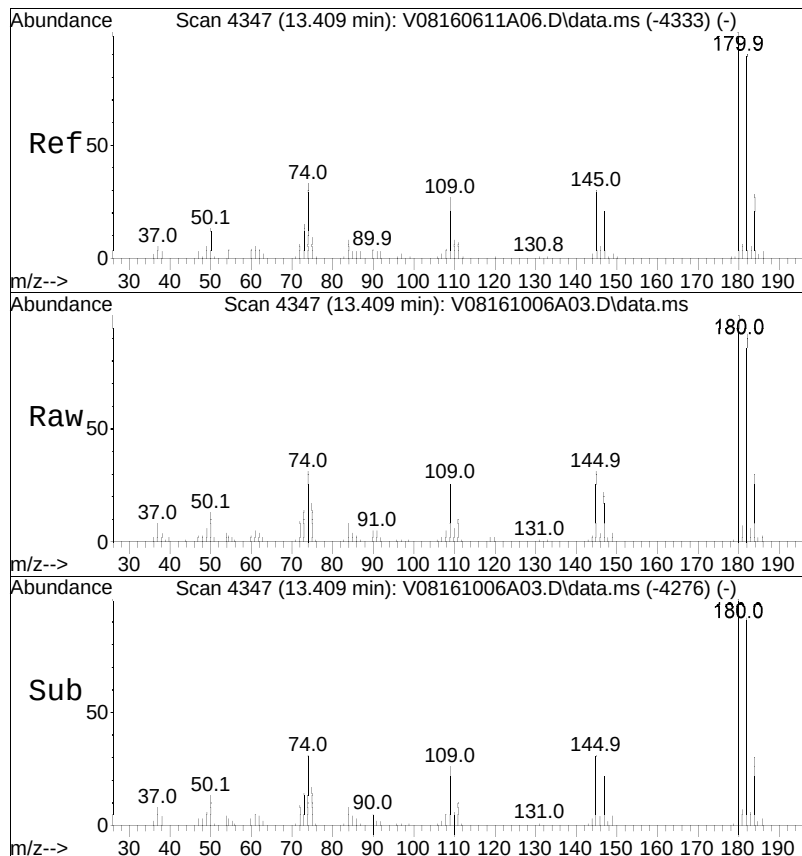




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.82 ug/L
 RT: 13.384 min Scan# 4338
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

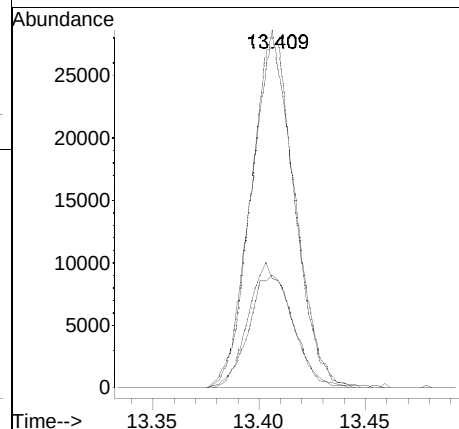
Tgt Ion:155 Resp: 2196
 Ion Ratio Lower Upper
 155 100
 157 125.2 100.8 151.2

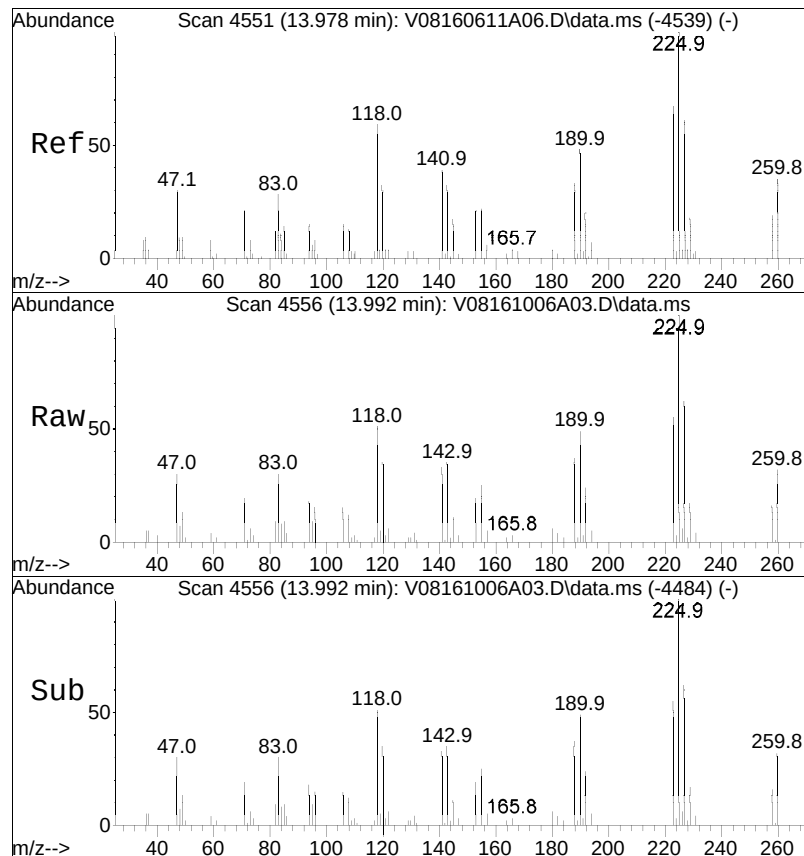




#107
 1,3,5-Trichlorobenzene
 Concen: 9.53 ug/L
 RT: 13.409 min Scan# 4347
 Delta R.T. -0.003 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

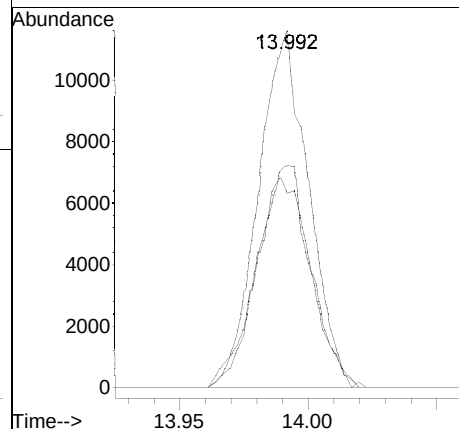
Tgt Ion:	180	Resp:	40613
Ion Ratio	Lower	Upper	
180	100		
182	96.1	63.0	131.0
145	32.5	21.3	44.3
74	34.9	23.1	47.9

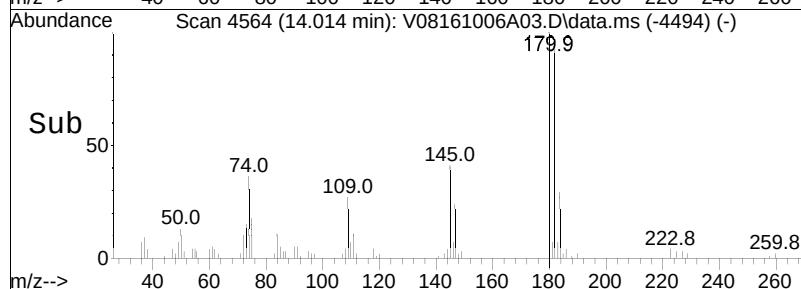
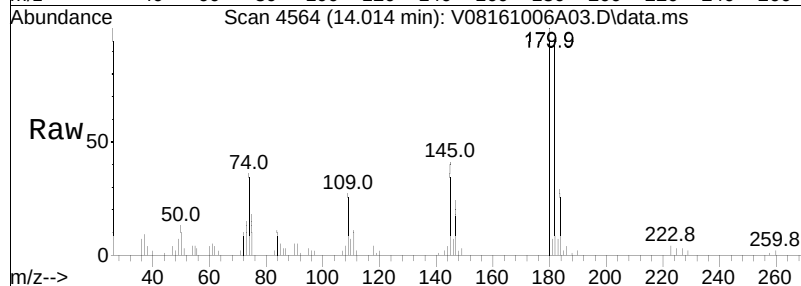
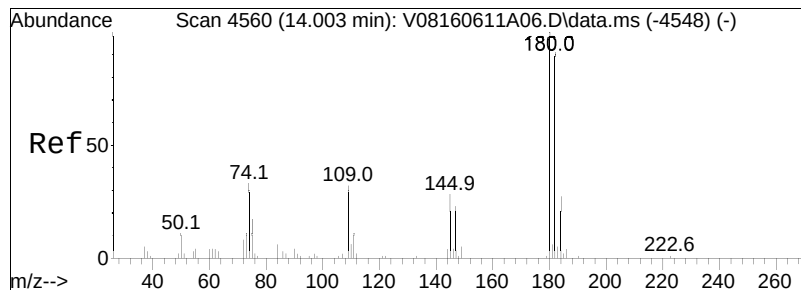




#108
 Hexachlorobutadiene
 Concen: 9.66 ug/L
 RT: 13.992 min Scan# 4556
 Delta R.T. -0.000 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

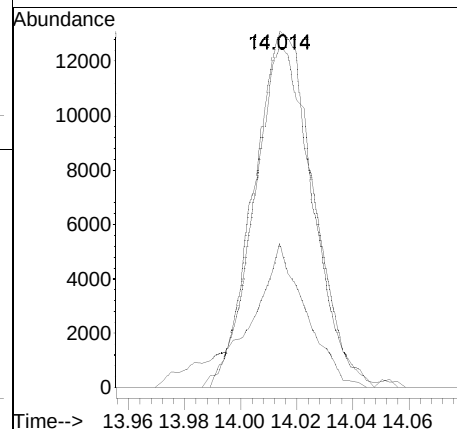
Tgt Ion:	225	Resp:	15793
Ion Ratio	Lower	Upper	
225	100		
223	64.4	50.6	76.0
227	65.5	50.2	75.2

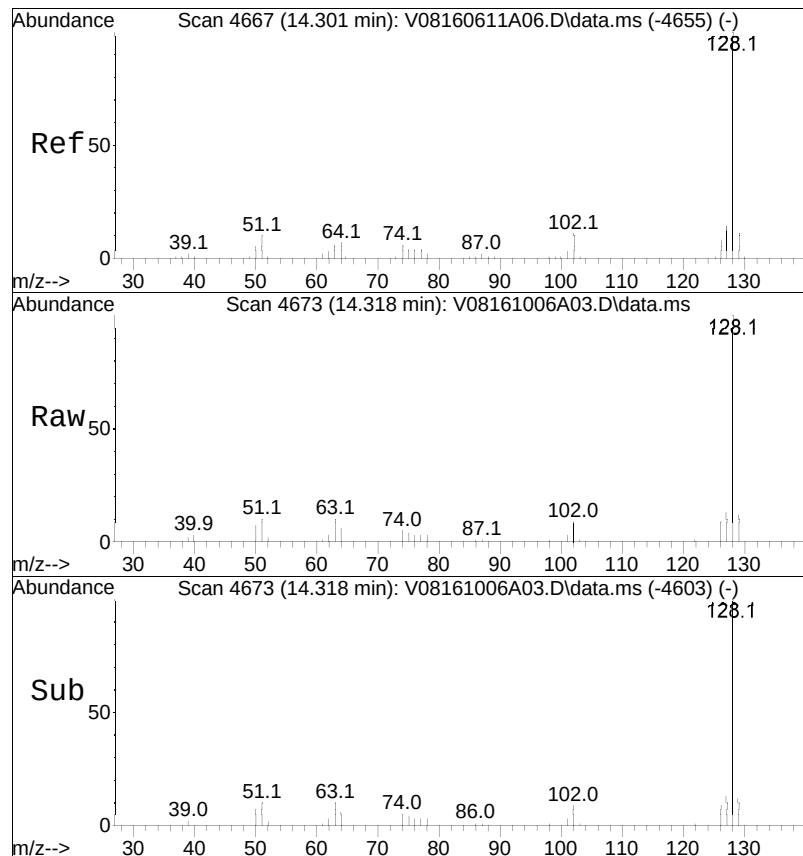




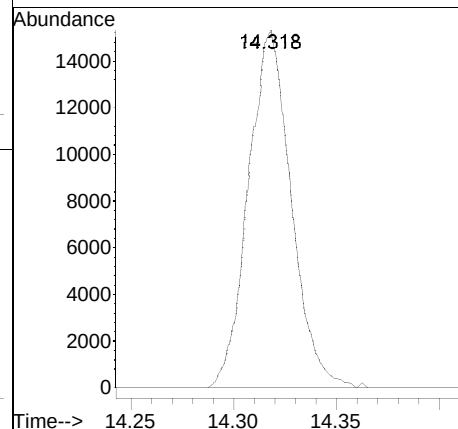
#109
 1,2,4-Trichlorobenzene
 Concen: 6.58 ug/L
 RT: 14.014 min Scan# 4564
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

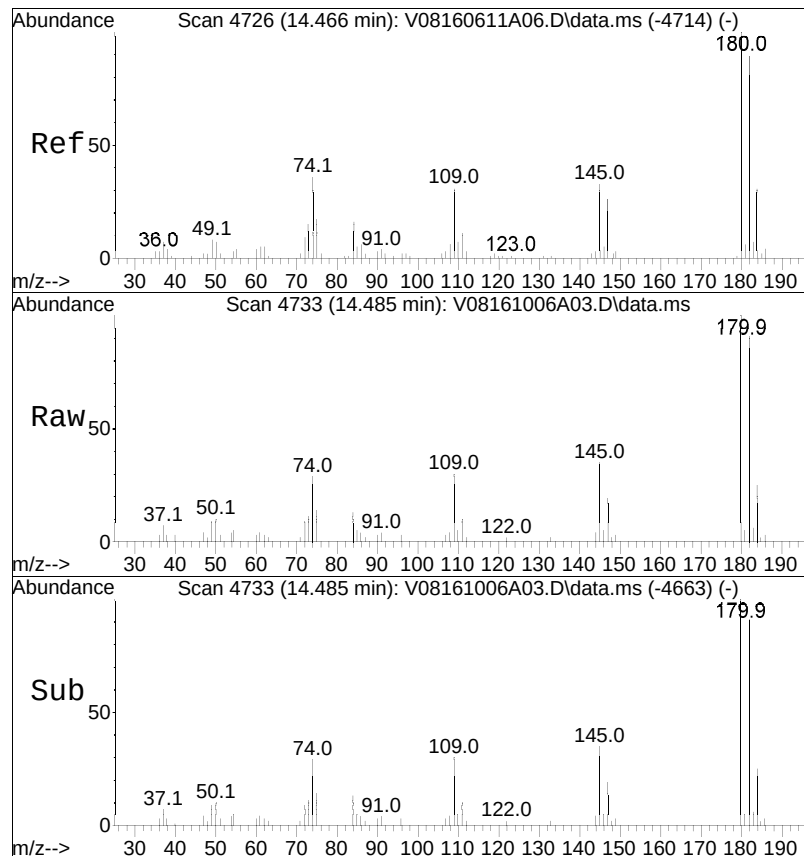
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	79.3	118.9
145	40.7	26.2	39.4





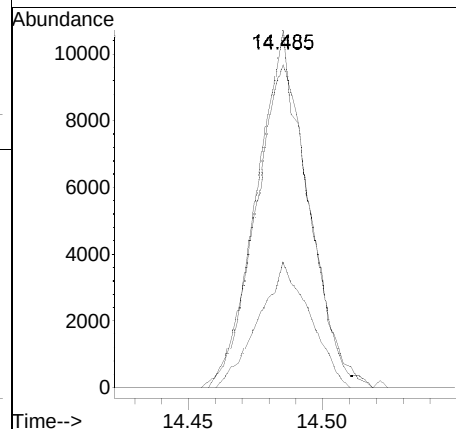
#110
 Naphthalene
 Concen: 5.87 ug/L
 RT: 14.318 min Scan# 4673
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am
 Tgt Ion:128 Resp: 21946





#111
 1,2,3-Trichlorobenzene
 Concen: 6.84 ug/L
 RT: 14.485 min Scan# 4733
 Delta R.T. -0.006 min
 Lab File: V08161006A03.D
 Acq: 6 Oct 2016 10:02 am

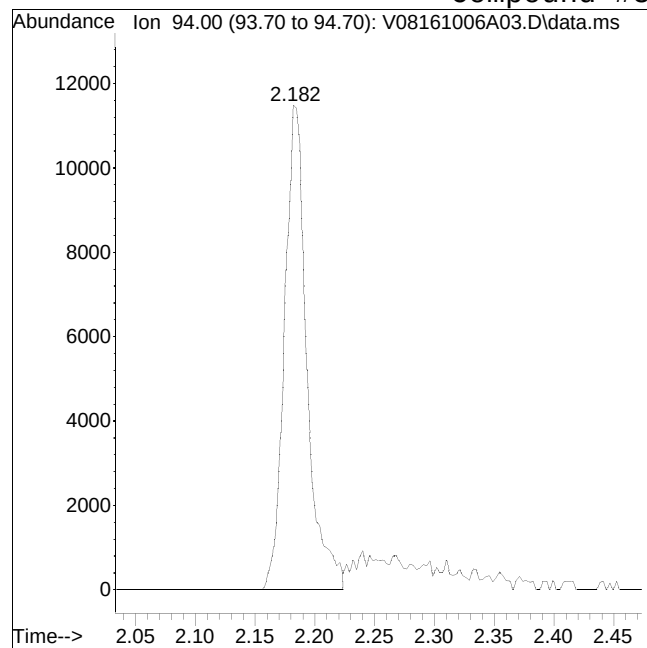
Tgt Ion:	180	Resp:	13992
Ion Ratio	Lower	Upper	
180	100		
182	97.7	77.9	116.9
145	35.6	29.8	44.8



Manual Integration Report

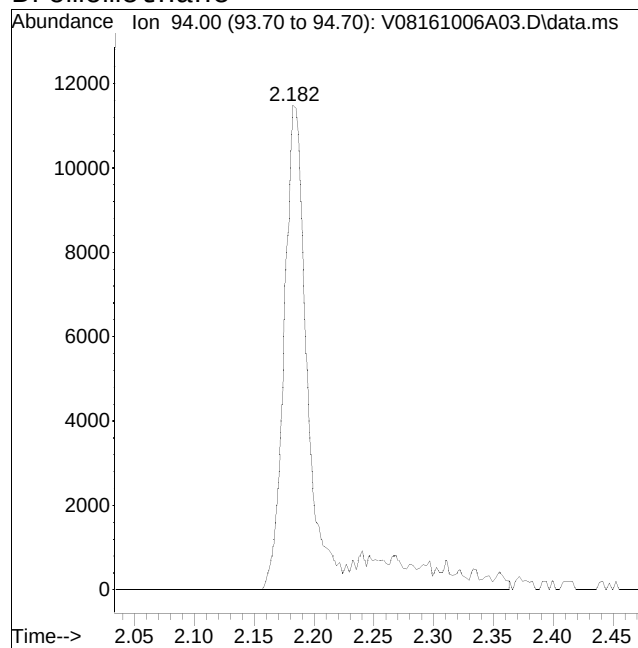
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A03.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 10:02 am Instrument : VOA 108
Sample : WG939161-11,31,10,10 Quant Date : 10/6/2016 10:38 am

Compound #5: Bromomethane



Original Peak Response = 14989

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

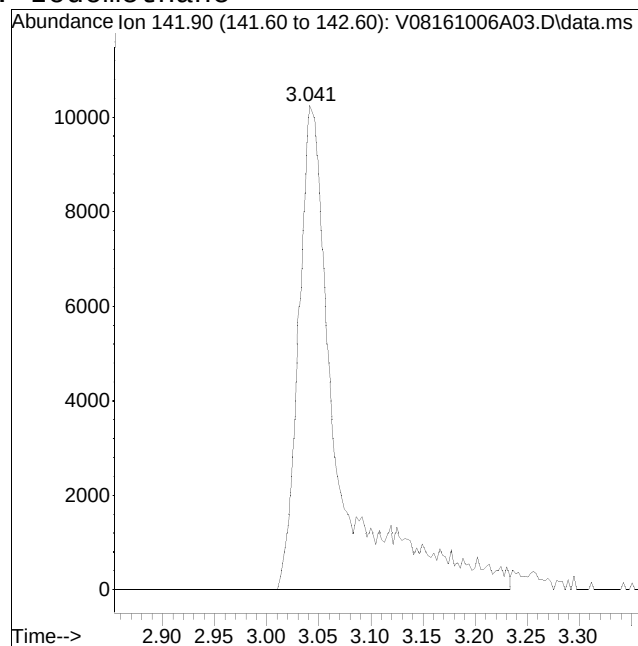
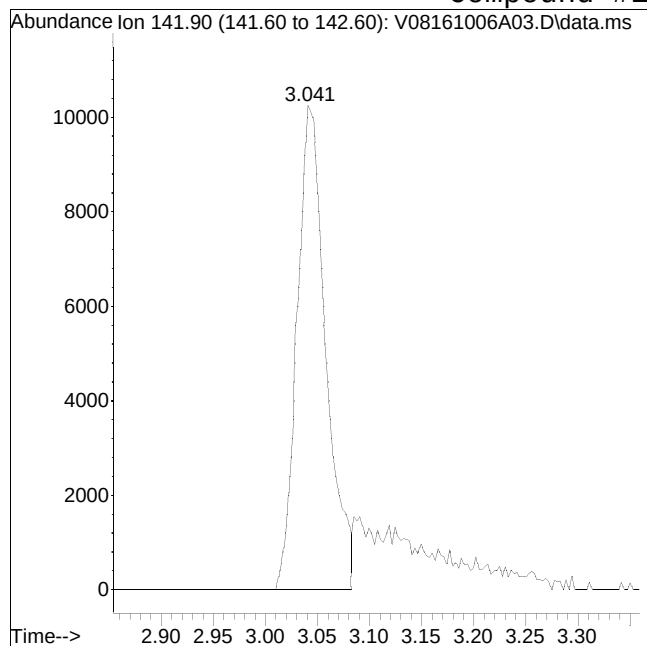


Manual Peak Response = 19156 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161006A03.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 10:02 am Instrument : VOA 108
Sample : WG939161-11,31,10,10 Quant Date : 10/6/2016 10:38 am

Compound #13: Iodomethane



Original Peak Response = 19716

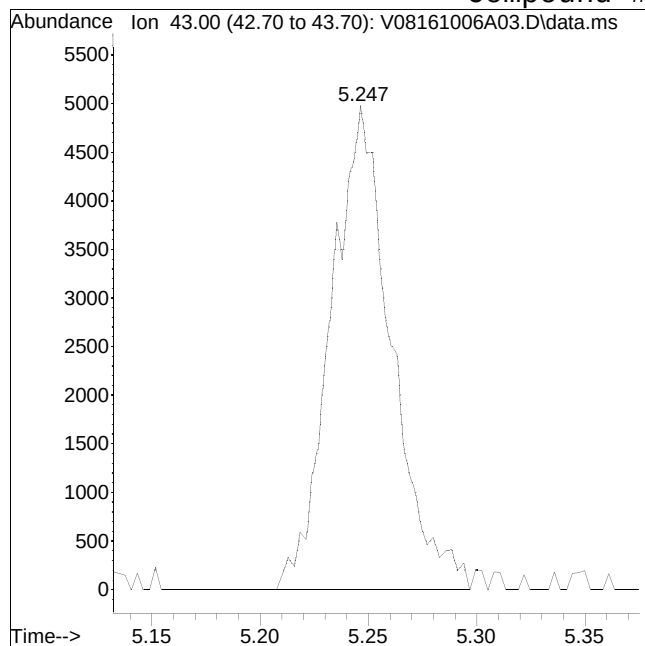
Manual Peak Response = 27074 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

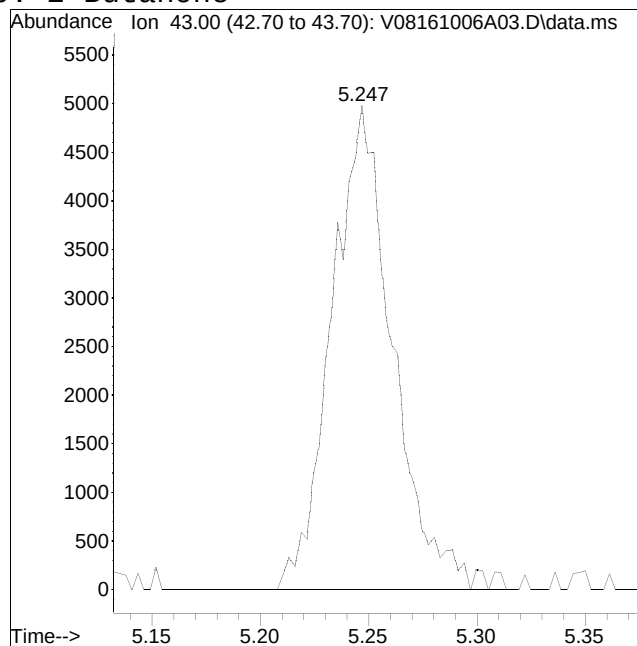
Data Path : I:\VOLATILES\VOA108\2016\10 Method : V108_1600808_8260.m
Data File : V08161006A03.D Operator : VOA108:PD
Date Inj'd : 10/6/2016 10:02 am Instrument : VOA 108
Sample : WG939161-11,31,10,10 Quant Date : 10/6/2016 10:38 am

Compound #39: 2-Butanone



Original Peak Response = 9658

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 9785 M1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A14.D
 Acq On : 5 Oct 2016 3:31 pm
 Operator : VOA108:PK
 Sample : WG939161-6,31,10,10,,c1
 Misc : WG939161,ICAL12737
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 05 18:24:50 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	234297	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	90.65%		
59) Chlorobenzene-d5	9.427	117	157571	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	92.99%		
79) 1,4-Dichlorobenzene-d4	12.151	152	69801	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	96.65%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.121	113	54453	9.481	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.81%		
43) 1,2-Dichloroethane-d4	5.645	65	49274	9.009	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.09%		
60) Toluene-d8	7.595	98	213901	10.075	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.75%		
83) 4-Bromofluorobenzene	10.935	95	68505	10.045	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.45%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.616	85	70699	12.253	ug/L	99
3) Chloromethane	1.794	50	114651	13.571	ug/L	95
4) Vinyl chloride	1.875	62	92045	11.609	ug/L #	45
5) Bromomethane	2.182	94	4788	2.392	ug/L	95
6) Chloroethane	2.302	64	55839	12.909	ug/L	98
7) Trichlorofluoromethane	2.433	101	104760	12.531	ug/L	100
8) Ethyl ether	2.723	74	17531	9.643	ug/L	96
10) 1,1-Dichloroethene	2.910	96	55217	11.904	ug/L	93
11) Carbon disulfide	2.932	76	189415	12.065	ug/L	99
15) Methylene chloride	3.451	84	53154	10.775	ug/L	96
17) Acetone	3.504	43	10858M1	13.943	ug/L	
18) trans-1,2-Dichloroethene	3.599	96	68662	12.147	ug/L	93
20) Methyl tert-butyl ether	3.696	73	75955	10.477	ug/L #	90
23) 1,1-Dichloroethane	4.176	63	134082	11.241	ug/L	98
25) Acrylonitrile	4.232	53	9528M1	9.796	ug/L	
27) Vinyl acetate	4.407	43	79459	10.952	ug/L #	93
28) cis-1,2-Dichloroethene	4.683	96	62569	10.981	ug/L	95
29) 2,2-Dichloropropane	4.781	77	70204	9.905	ug/L	99
30) Bromochloromethane	4.873	128	22040	10.495	ug/L	85
32) Chloroform	4.943	83	110538	11.580	ug/L	98
34) Carbon tetrachloride	5.065	117	100070M2	11.967	ug/L	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A14.D
 Acq On : 5 Oct 2016 3:31 pm
 Operator : VOA108:PK
 Sample : WG939161-6,31,10,10,,c1
 Misc : WG939161,ICAL12737
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 05 18:24:50 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37)	1,1,1-Trichloroethane	5.138	97	114611	12.579	ug/L	#	96
39)	2-Butanone	5.247	43	9793	10.572	ug/L	#	70
40)	1,1-Dichloropropene	5.258	75	87003	11.346	ug/L		100
41)	Benzene	5.503	78	250509	11.171	ug/L		99
44)	1,2-Dichloroethane	5.712	62	59064	10.231	ug/L		97
48)	Trichloroethene	6.086	95	71230	11.796	ug/L		98
50)	Dibromomethane	6.529	93	20815	10.593	ug/L		97
51)	1,2-Dichloropropane	6.638	63	59337	10.303	ug/L		96
54)	Bromodichloromethane	6.705	83	67265	11.035	ug/L	#	99
57)	1,4-Dioxane	6.914	88	8692	466.791	ug/L	#	84
58)	cis-1,3-Dichloropropene	7.391	75	56175	8.541	ug/L		98
61)	Toluene	7.650	92	155385	11.476	ug/L		97
62)	4-Methyl-2-pentanone	8.102	58	6053	7.441	ug/L	#	84
63)	Tetrachloroethene	8.085	166	62307	11.006	ug/L		98
65)	trans-1,3-Dichloropropene	8.138	75	42331	9.321	ug/L		98
67)	Ethyl methacrylate	8.328	69	24046	7.857	ug/L		85
68)	1,1,2-Trichloroethane	8.320	83	23713	11.058	ug/L		99
69)	Chlorodibromomethane	8.529	129	35296	10.655	ug/L		97
70)	1,3-Dichloropropane	8.646	76	47887	10.340	ug/L		100
71)	1,2-Dibromoethane	8.802	107	23868	10.190	ug/L		99
72)	2-Hexanone	9.106	43	9132	7.210	ug/L	#	63
73)	Chlorobenzene	9.449	112	146789	10.447	ug/L		99
74)	Ethylbenzene	9.485	91	283580	11.277	ug/L		98
75)	1,1,1,2-Tetrachloroethane	9.536	131	48307	10.641	ug/L		98
76)	p/m Xylene	9.675	106	220466	22.216	ug/L		95
77)	o Xylene	10.222	106	194140	21.750	ug/L		97
78)	Styrene	10.289	104	303042	21.796	ug/L		98
80)	Bromoform	10.311	173	15761	10.607	ug/L		100
82)	Isopropylbenzene	10.606	105	265461	10.926	ug/L		99
84)	Bromobenzene	11.044	156	46230	10.141	ug/L		100
85)	n-Propylbenzene	11.094	91	308928	11.182	ug/L		98
86)	1,4-Dichlorobutane	11.117	55	58438	10.917	ug/L		99
87)	1,1,2,2-Tetrachloroethane	11.186	83	26192	10.896	ug/L		97
88)	4-Ethyltoluene	11.220	105	259470	11.326	ug/L		99
89)	2-Chlorotoluene	11.259	91	190260	11.485	ug/L		100
90)	1,3,5-Trimethylbenzene	11.323	105	210126	11.248	ug/L	#	77
91)	1,2,3-Trichloropropane	11.326	75	21223	10.780	ug/L		99
92)	trans-1,4-Dichloro-2-b...	11.384	53	7348	9.473	ug/L		97
93)	4-Chlorotoluene	11.446	91	174922	11.108	ug/L	#	100
94)	tert-Butylbenzene	11.661	119	167916	9.280	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A14.D
 Acq On : 5 Oct 2016 3:31 pm
 Operator : VOA108:PK
 Sample : WG939161-6,31,10,10,,c1
 Misc : WG939161,ICAL12737
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 05 18:24:50 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

97)	1,2,4-Trimethylbenzene	11.741	105	190320	11.193	ug/L	99
98)	sec-Butylbenzene	11.853	105	251489	10.856	ug/L	99
99)	p-Isopropyltoluene	12.012	119	188347	10.725	ug/L	98
100)	1,3-Dichlorobenzene	12.070	146	93464	9.840	ug/L	98
101)	1,4-Dichlorobenzene	12.165	146	86060	9.387	ug/L	94
102)	p-Diethylbenzene	12.388	119	99902	9.200	ug/L	98
103)	n-Butylbenzene	12.444	91	150034	9.872	ug/L	99
104)	1,2-Dichlorobenzene	12.595	146	71784	9.654	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.191	119	104655	8.315	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.387	155	2295	9.008	ug/L	95
108)	Hexachlorobutadiene	13.992	225	18398	10.998	ug/L	98
109)	1,2,4-Trichlorobenzene	14.017	180	18097	6.086	ug/L #	93
110)	Naphthalene	14.318	128	18099	4.876	ug/L	100
111)	1,2,3-Trichlorobenzene	14.485	180	12347	5.988	ug/L	98

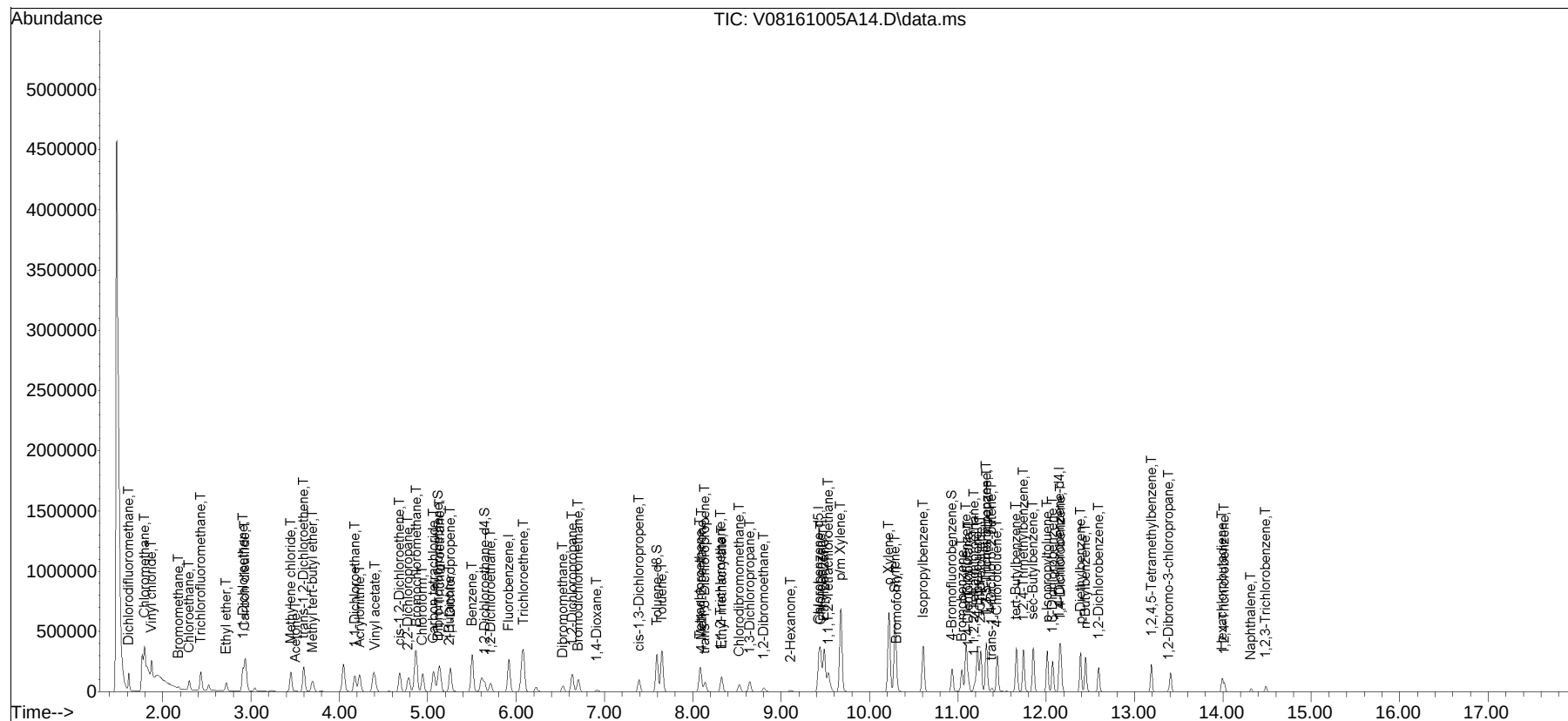
(#) = qualifier out of range (m) = manual integration (+) = signals summed

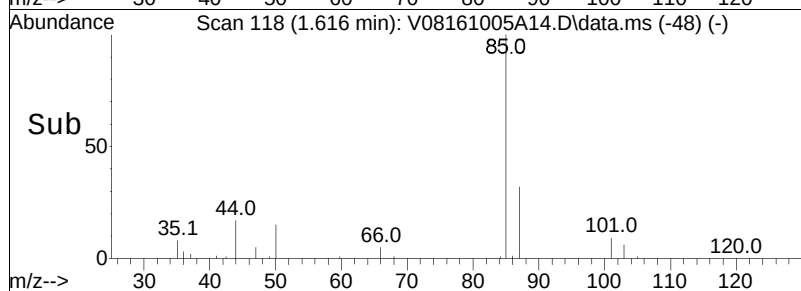
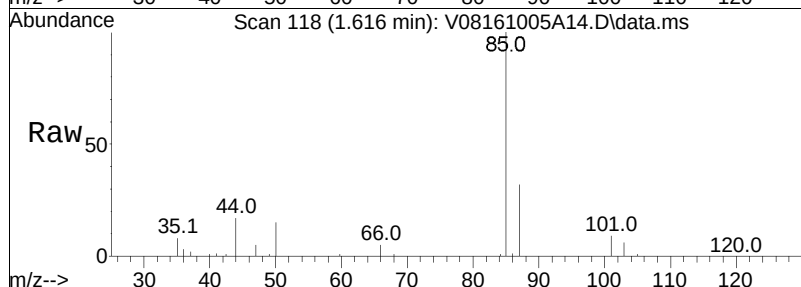
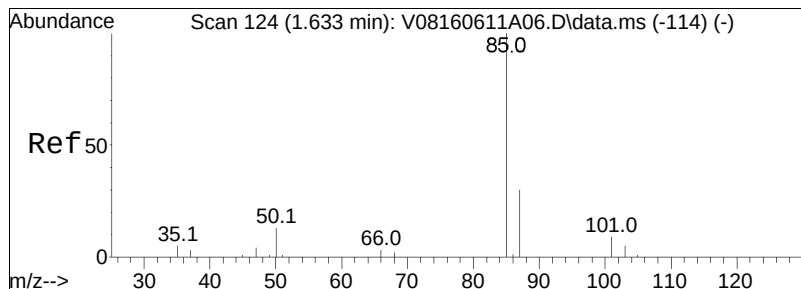
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A14.D
 Acq On : 5 Oct 2016 3:31 pm
 Operator : VOA108:PK
 Sample : WG939161-6,31,10,10,,c1
 Misc : WG939161,ICAL12737
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 05 18:24:50 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

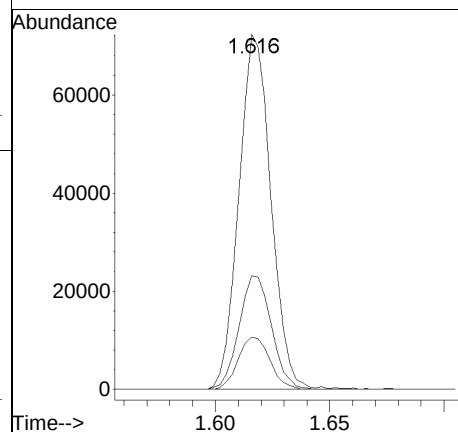
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•

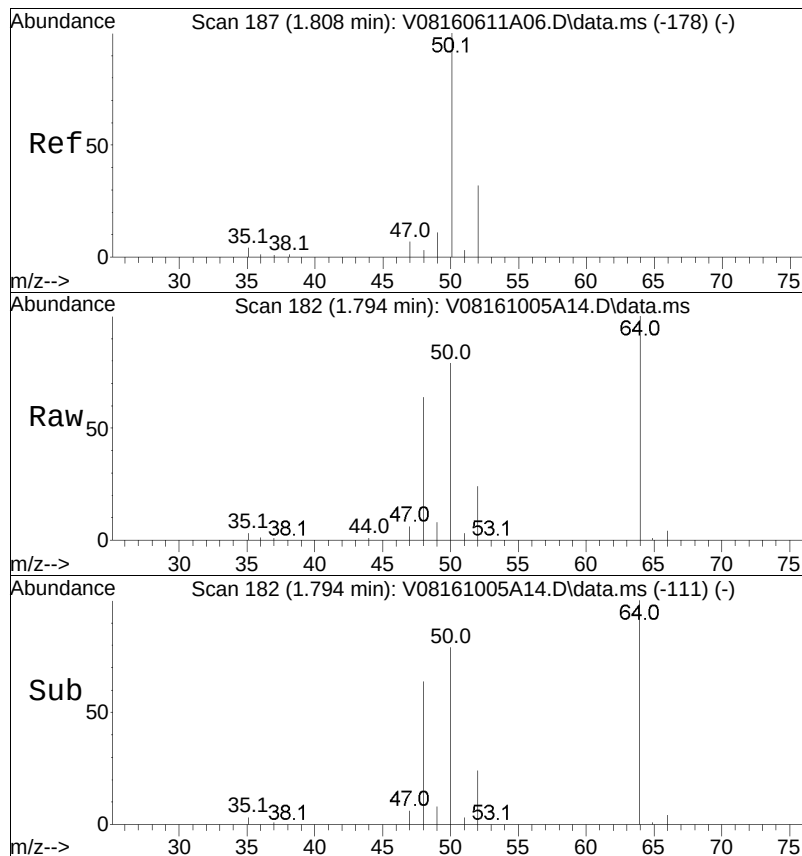




#2
 Dichlorodifluoromethane
 Concen: 12.25 ug/L
 RT: 1.616 min Scan# 118
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

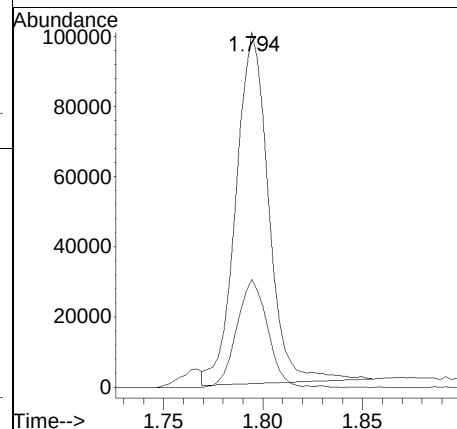
Tgt Ion	85	87	50	Ratio	100	32.4	14.6	Resp:	70699	Lower	21.4	Upper	44.4	20.8
85	100													
87		32.4								21.4			44.4	
50			14.6							10.0			20.8	

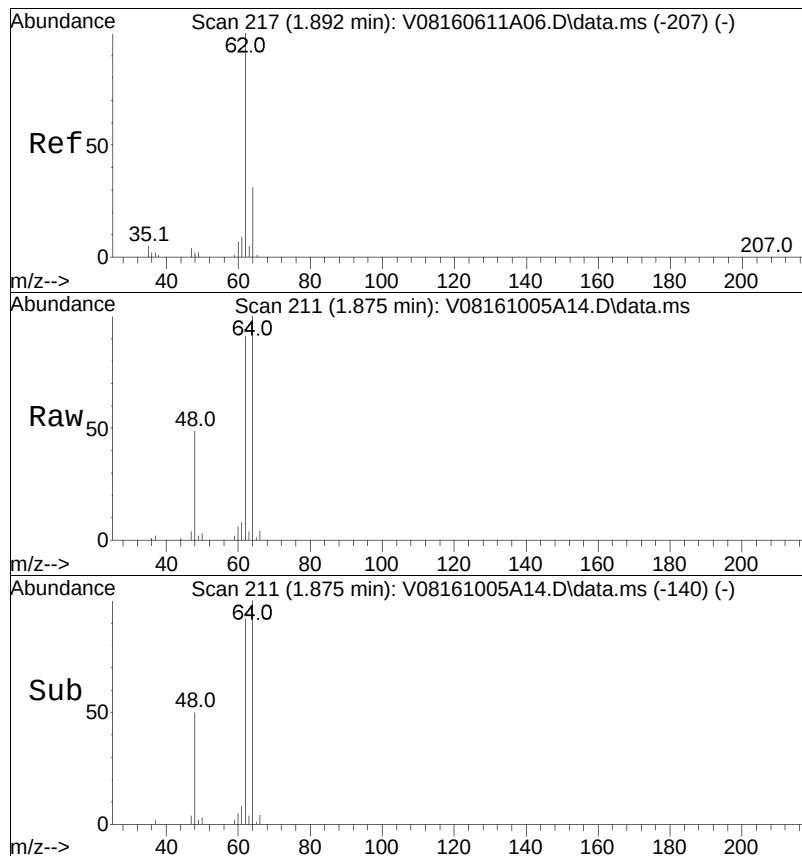




#3
 Chloromethane
 Concen: 13.57 ug/L
 RT: 1.794 min Scan# 182
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

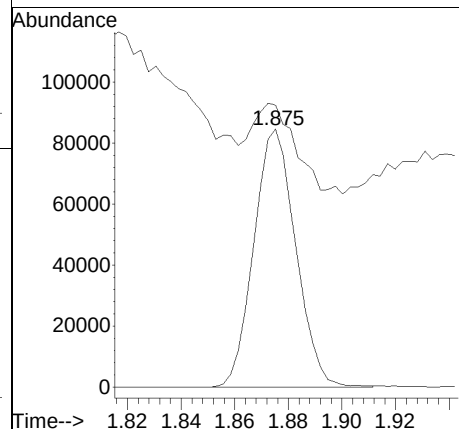
Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.9	11.8	51.8

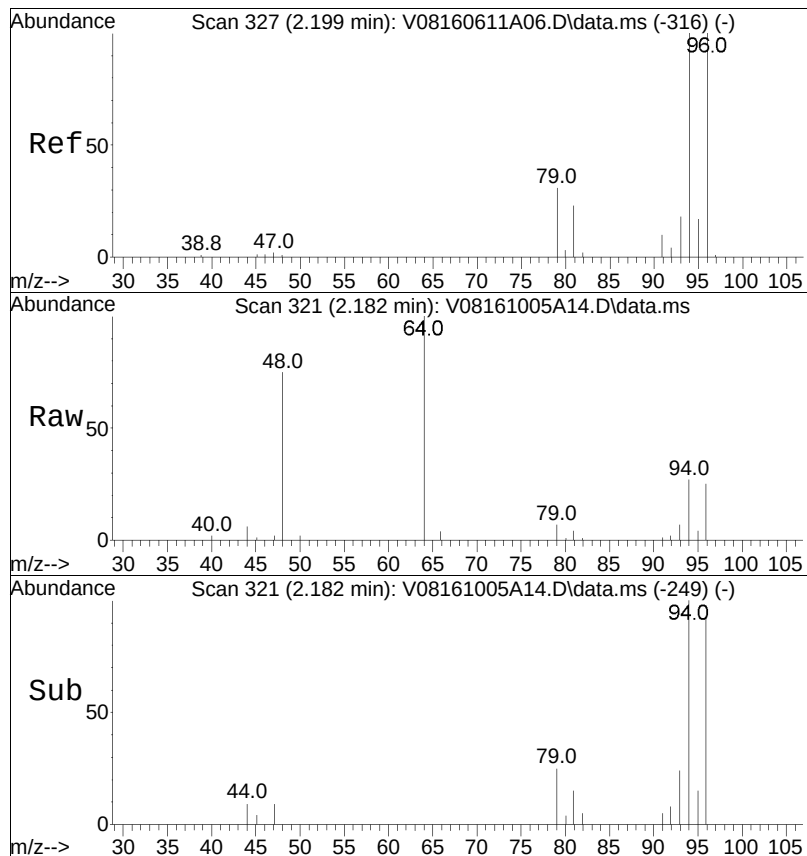




#4
 Vinyl chloride
 Concen: 11.61 ug/L
 RT: 1.875 min Scan# 211
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

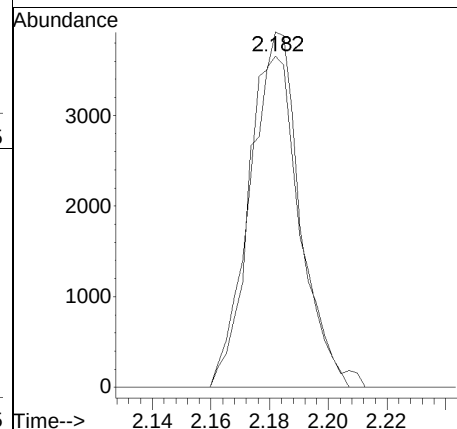
Tgt Ion	Ratio	Lower	Upper
62	100		
64	0.0	9.7	49.7#

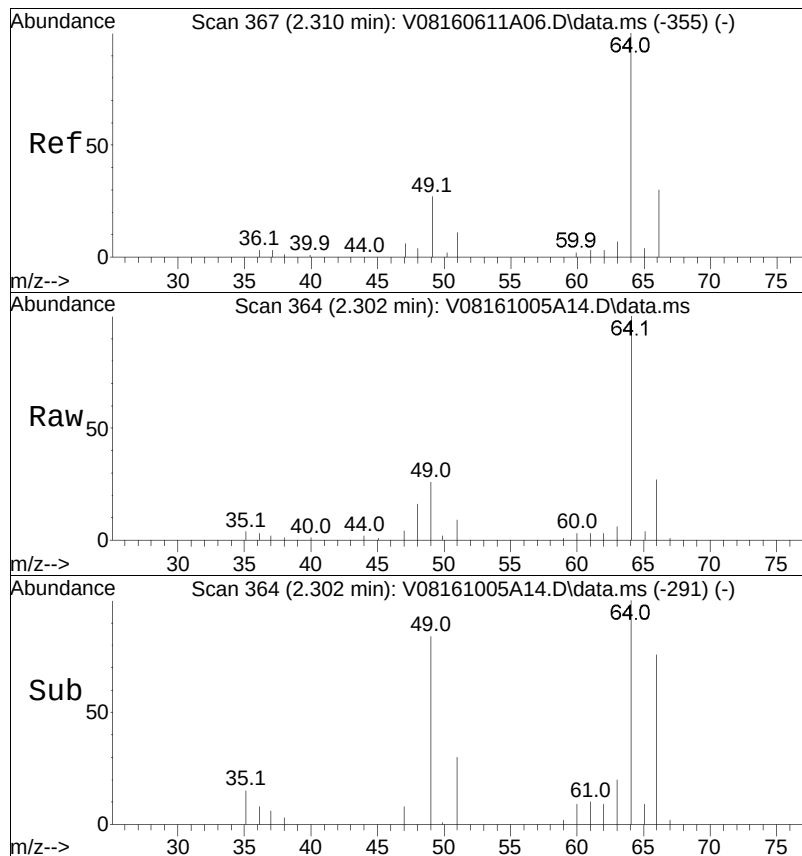




#5
 Bromomethane
 Concen: 2.39 ug/L
 RT: 2.182 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

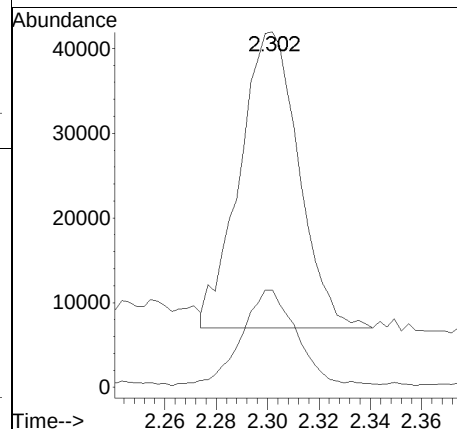
Tgt Ion: 94 Resp: 4788
 Ion Ratio Lower Upper
 94 100
 96 91.3 75.7 115.7

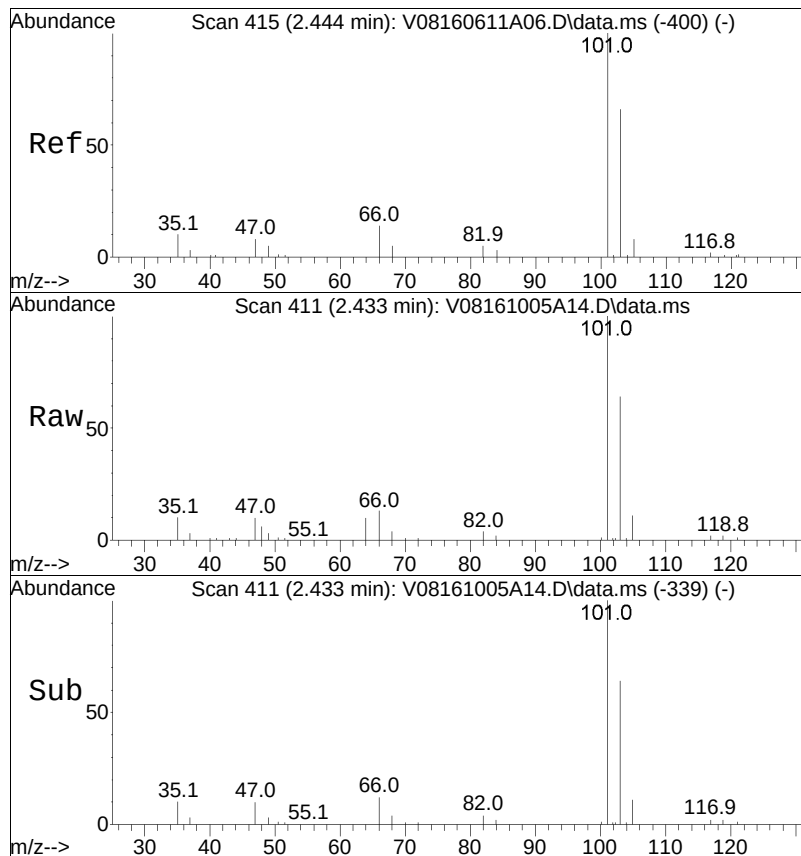




#6
 Chloroethane
 Concen: 12.91 ug/L
 RT: 2.302 min Scan# 364
 Delta R.T. 0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

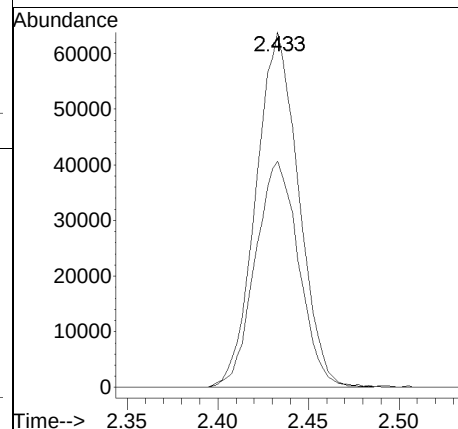
Tgt Ion	Ratio	Lower	Upper
64	100		
66	30.4	9.1	49.1

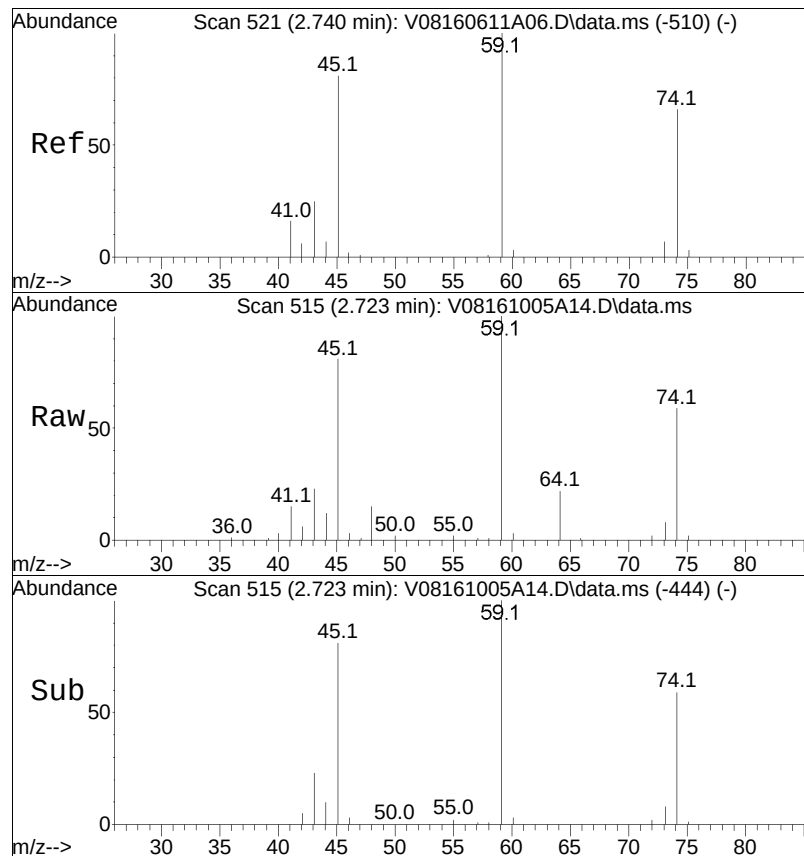




#7
 Trichlorofluoromethane
 Concen: 12.53 ug/L
 RT: 2.433 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

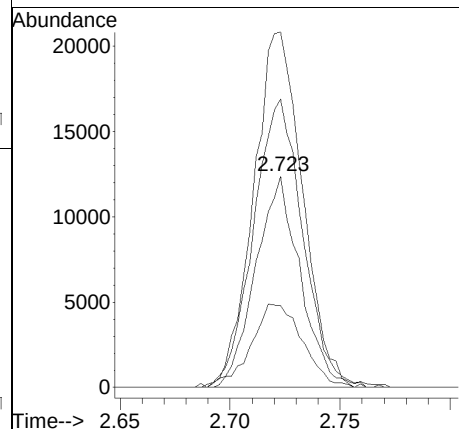
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	65.0	51.7	77.5	

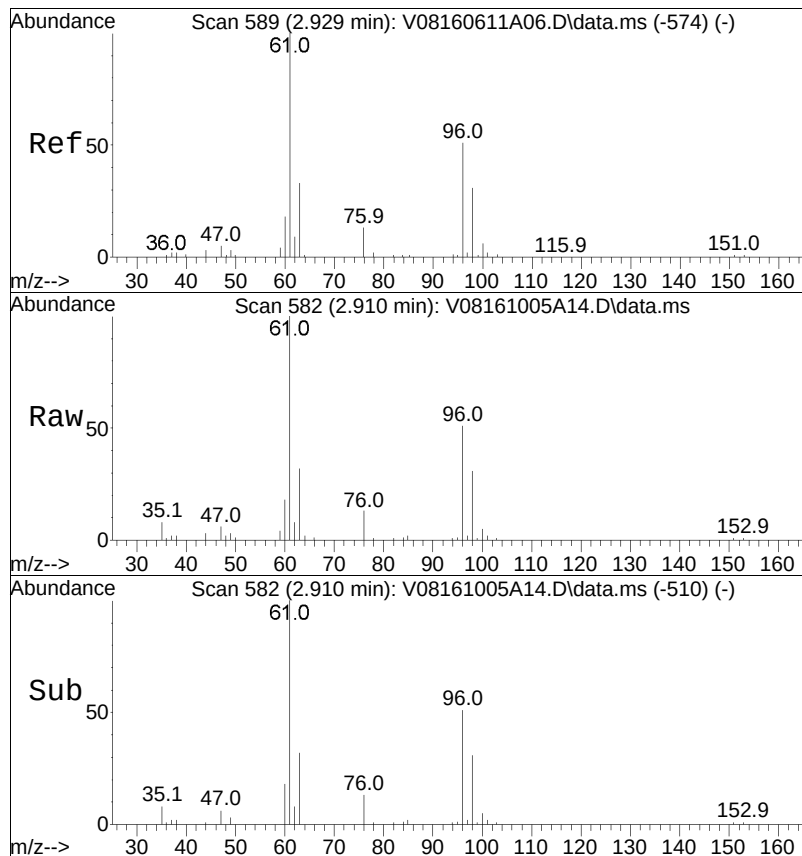




#8
 Ethyl ether
 Concen: 9.64 ug/L
 RT: 2.723 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

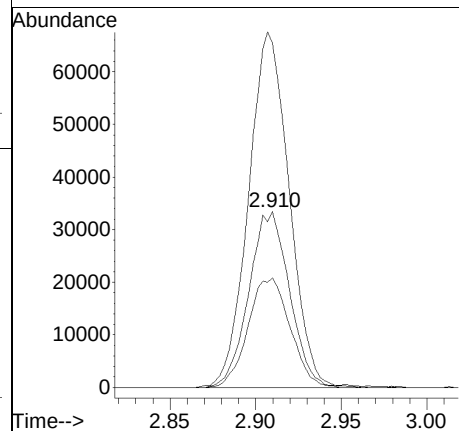
Tgt Ion:	74	Resp:	17531
Ion Ratio	Lower	Upper	
74	100		
59	184.7	126.0	261.8
45	150.6	99.2	206.0
43	44.8	26.7	55.4

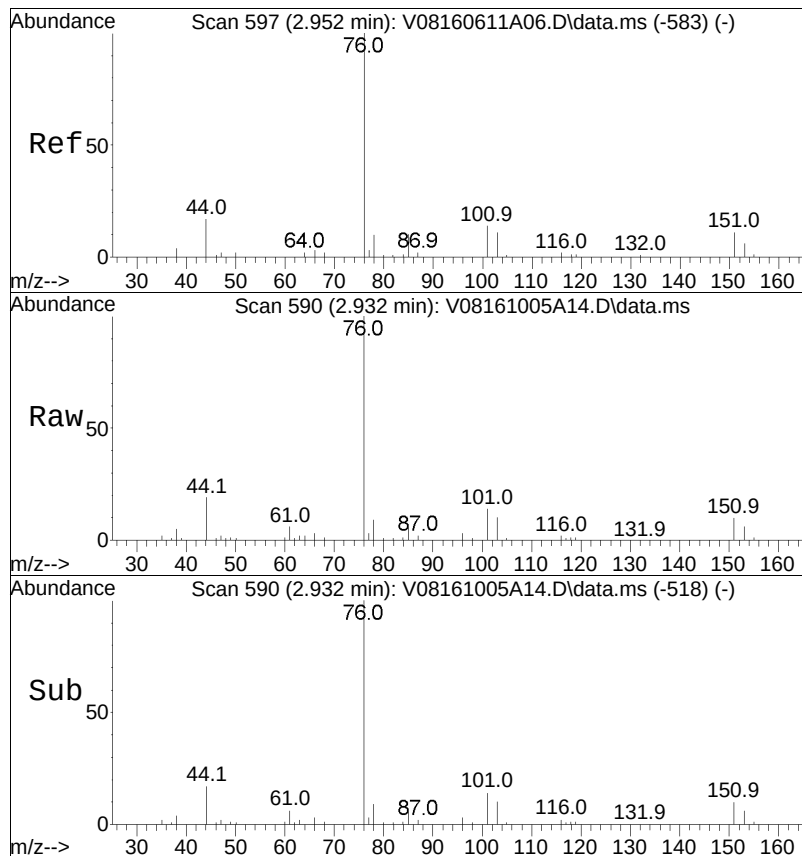




#10
 1,1-Dichloroethene
 Concen: 11.90 ug/L
 RT: 2.910 min Scan# 582
 Delta R.T. -0.000 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

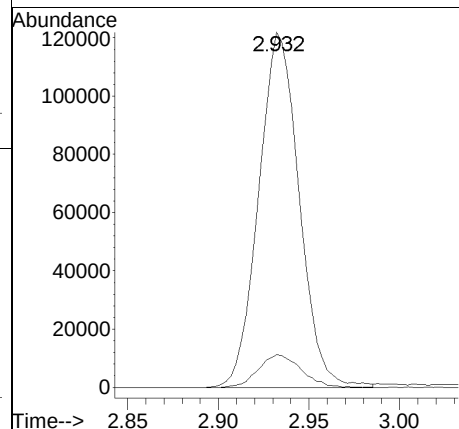
Tgt	Ion	Ratio	Lower	Upper
96	100			
61	201.1	171.2	256.8	
63	64.1	52.6	78.8	

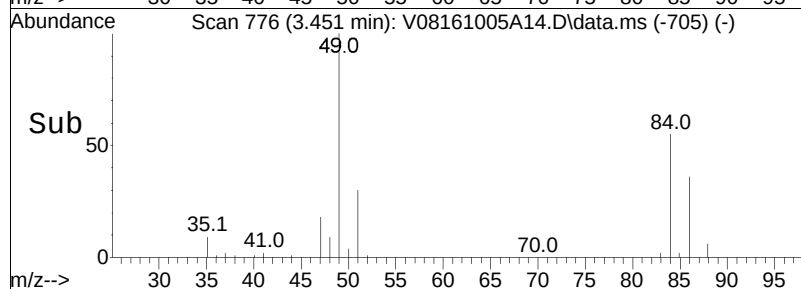
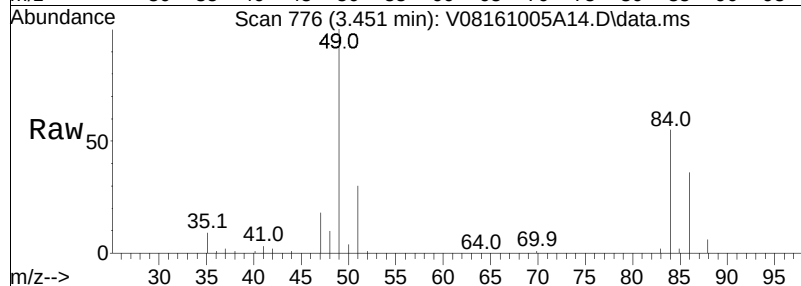
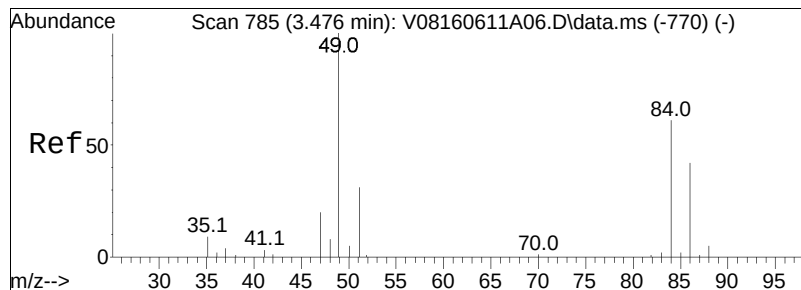




#11
Carbon disulfide
Concen: 12.06 ug/L
RT: 2.932 min Scan# 590
Delta R.T. 0.000 min
Lab File: V08161005A14.D
Acq: 5 Oct 2016 3:31 pm

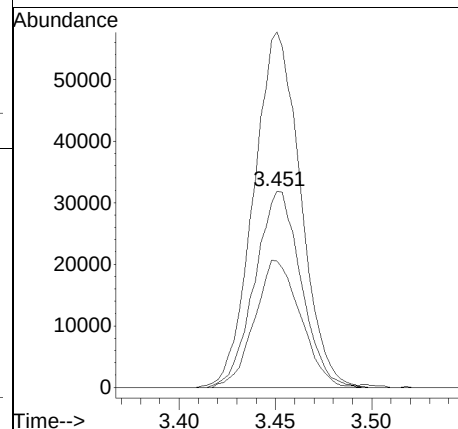
Tgt Ion:	76	Resp:	189415
Ion Ratio	100	Lower	Upper
76	100		
78	9.7	6.6	13.8

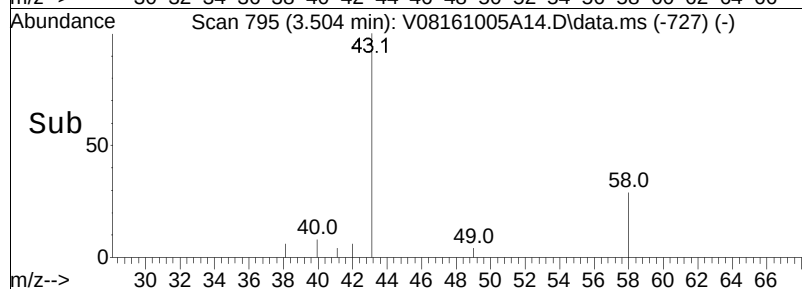
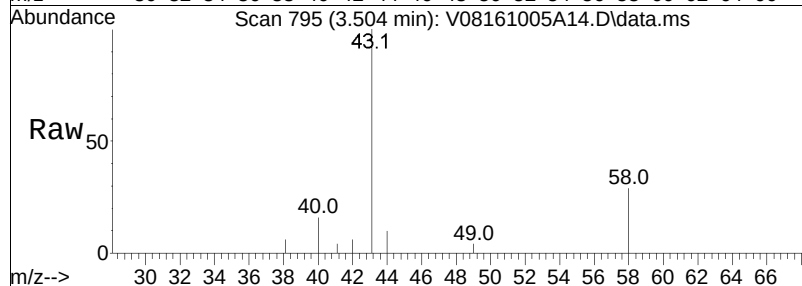
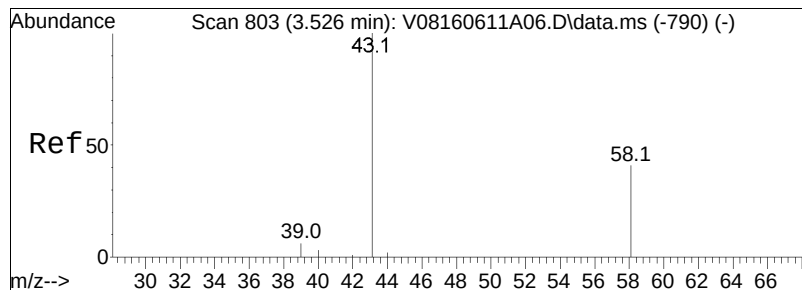




#15
Methylene chloride
Concen: 10.78 ug/L
RT: 3.451 min Scan# 776
Delta R.T. -0.003 min
Lab File: V08161005A14.D
Acq: 5 Oct 2016 3:31 pm

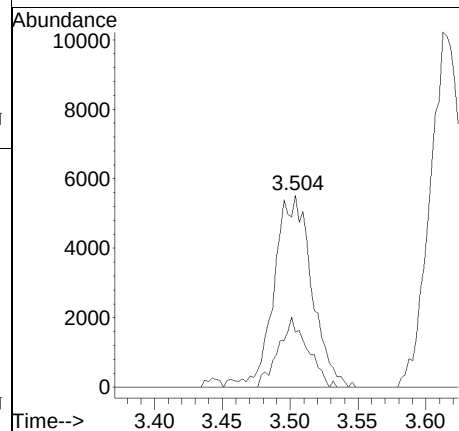
Tgt	Ion	Ratio	Lower	Upper
84	100			
86	64.5	41.7	86.7	
49	184.1	124.3	258.1	

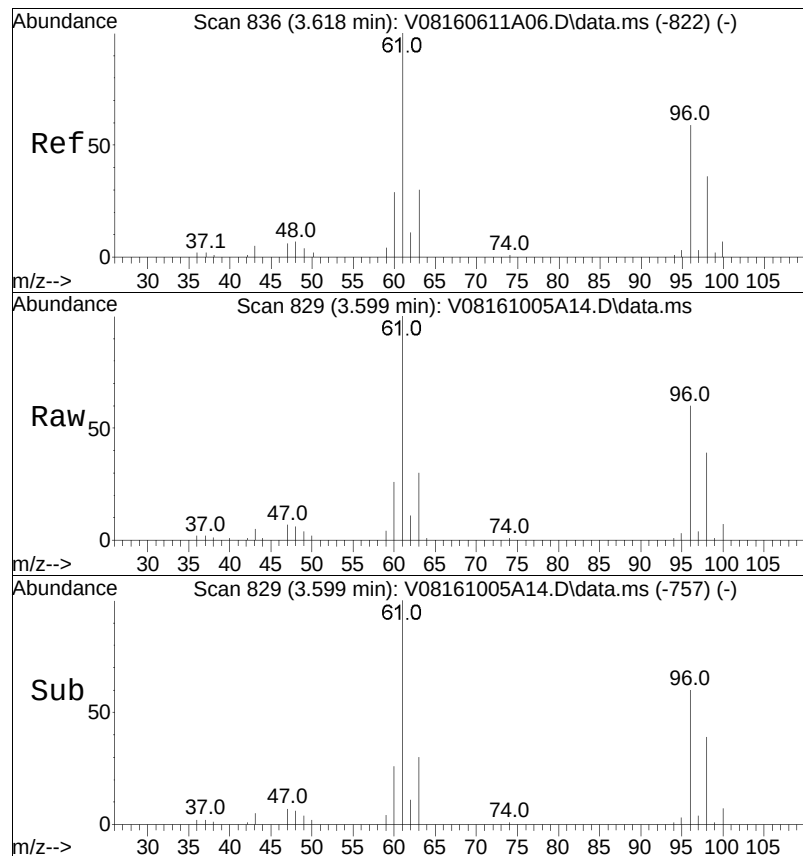




#17
Acetone
Concen: 13.94 ug/L M1
RT: 3.504 min Scan# 795
Delta R.T. -0.011 min
Lab File: V08161005A14.D
Acq: 5 Oct 2016 3:31 pm

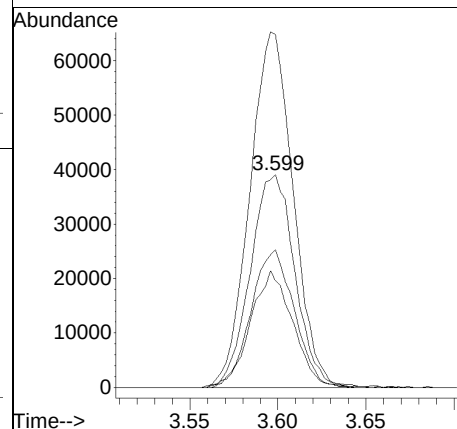
Tgt Ion:	43	58	Ratio	100	28.0	Resp:	10858	Lower	Upper
								24.5	36.7

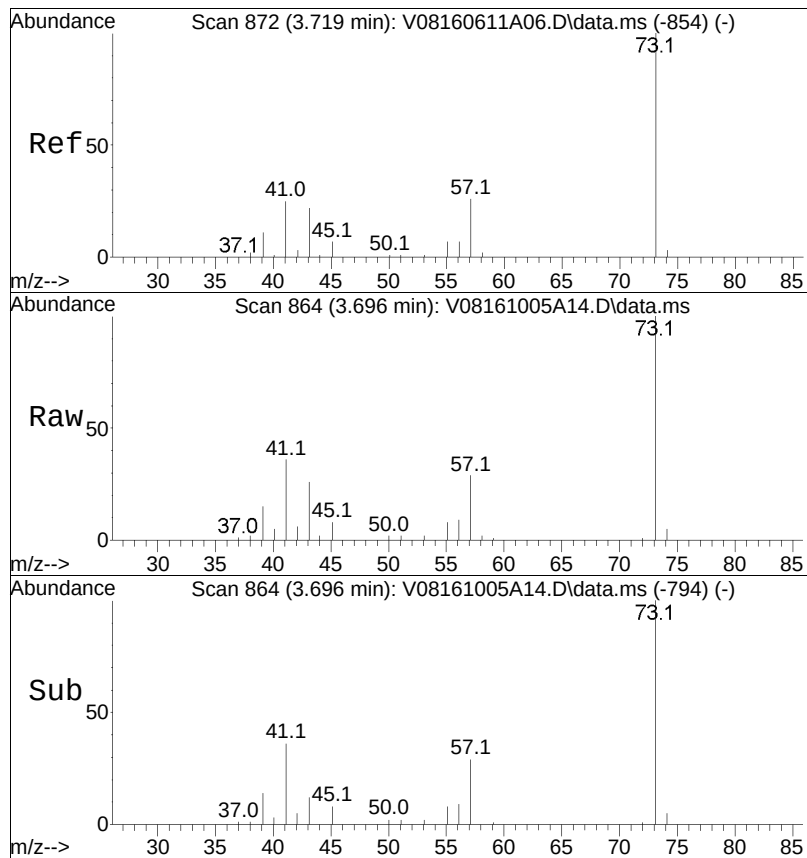




#18
trans-1,2-Dichloroethene
Concen: 12.15 ug/L
RT: 3.599 min Scan# 829
Delta R.T. -0.000 min
Lab File: V08161005A14.D
Acq: 5 Oct 2016 3:31 pm

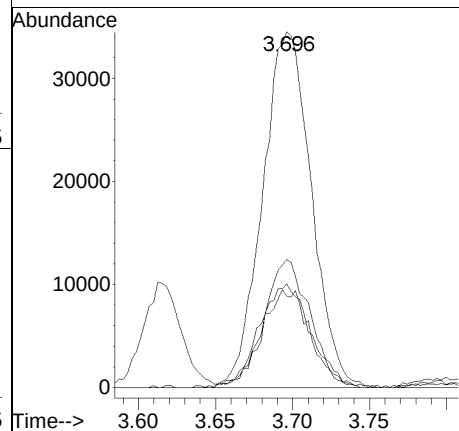
Tgt Ion:	96	Resp:	68662
Ion Ratio	Lower	Upper	
96	100		
61	163.0	114.1	236.9
98	62.8	42.1	87.3
63	51.7	36.1	74.9

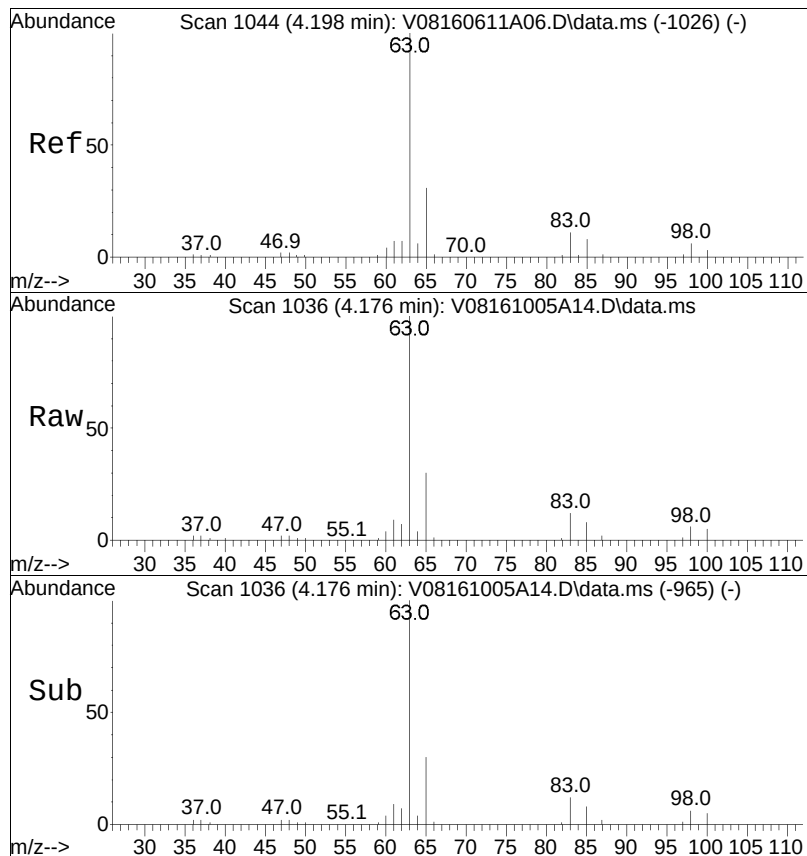




#20
Methyl tert-butyl ether
Concen: 10.48 ug/L
RT: 3.696 min Scan# 864
Delta R.T. -0.006 min
Lab File: V08161005A14.D
Acq: 5 Oct 2016 3:31 pm

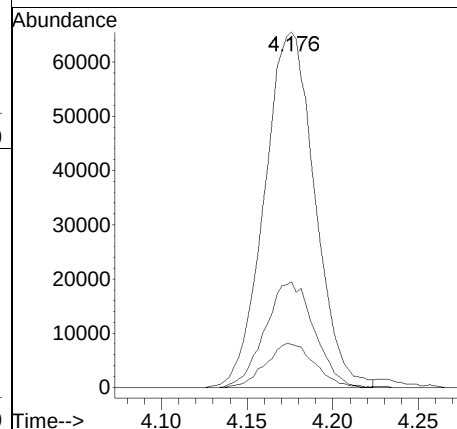
Tgt Ion:	73	Resp:	75955
Ion Ratio	Lower	Upper	
73	100		
57	29.3	21.4	44.4
43	27.3	8.1	16.9#
41	35.6	21.7	45.1

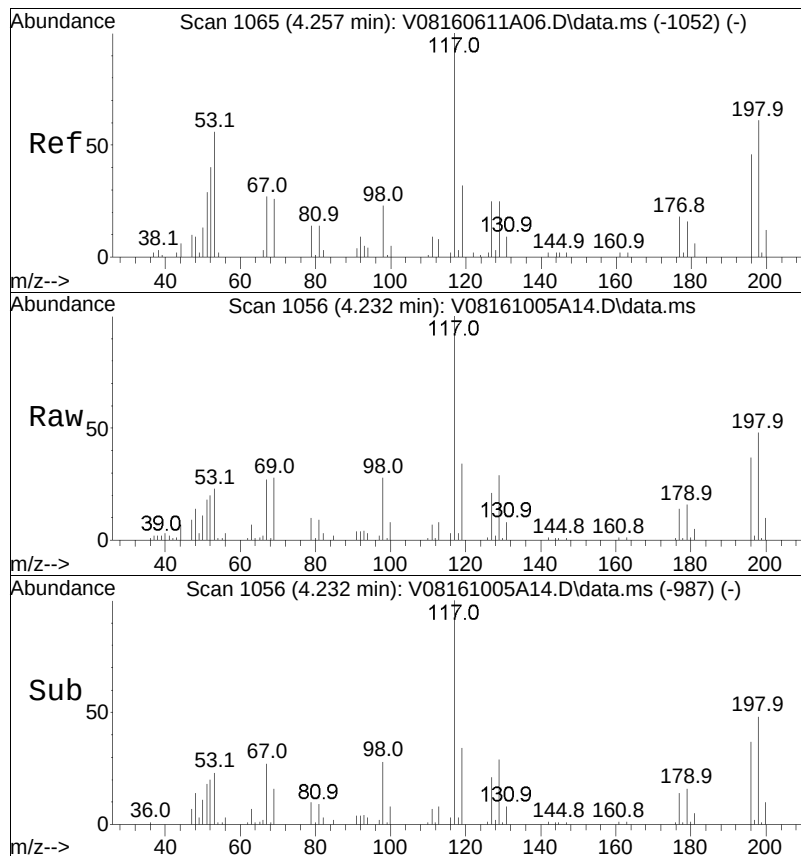




#23
 1,1-Dichloroethane
 Concen: 11.24 ug/L
 RT: 4.176 min Scan# 1036
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

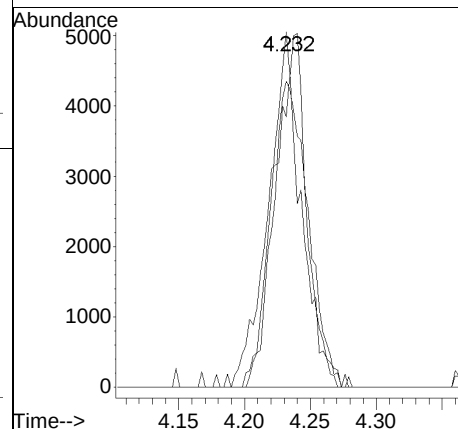
Tgt	Ion: 63	Resp:	134082
Ion	Ratio	Lower	Upper
63	100		
65	28.9	8.1	48.1
83	11.9	0.0	30.5

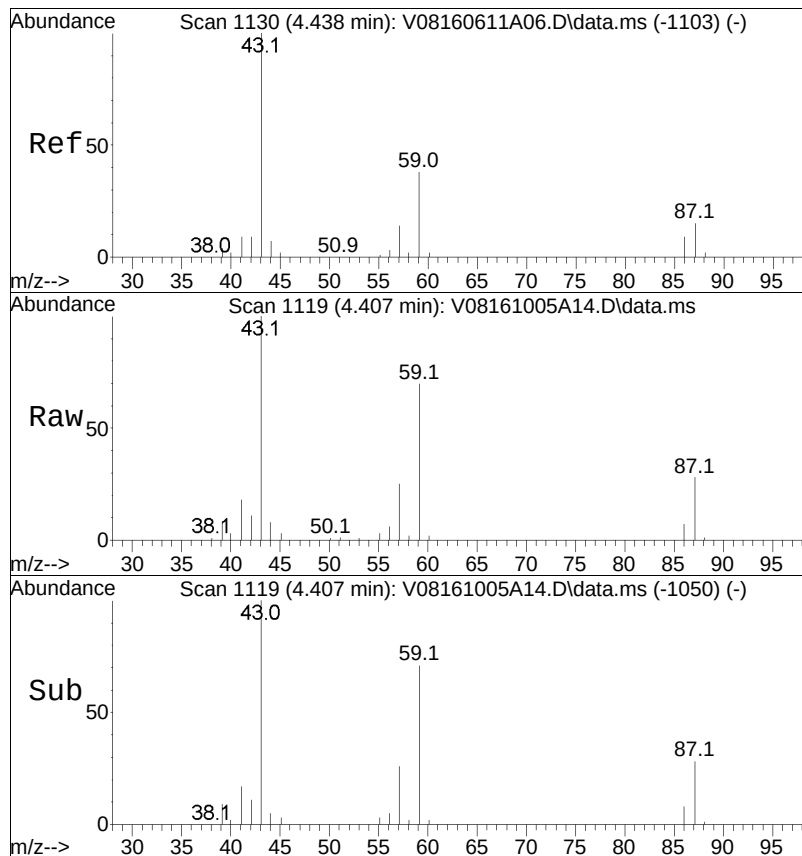




#25
 Acrylonitrile
 Concen: 9.80 ug/L M1
 RT: 4.232 min Scan# 1056
 Delta R.T. -0.008 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

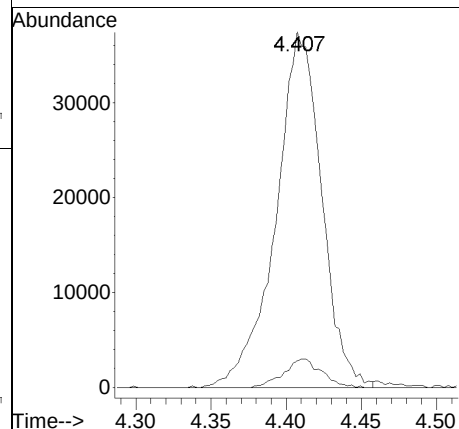
Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.7	69.4	104.0
51	87.0	47.5	71.3#

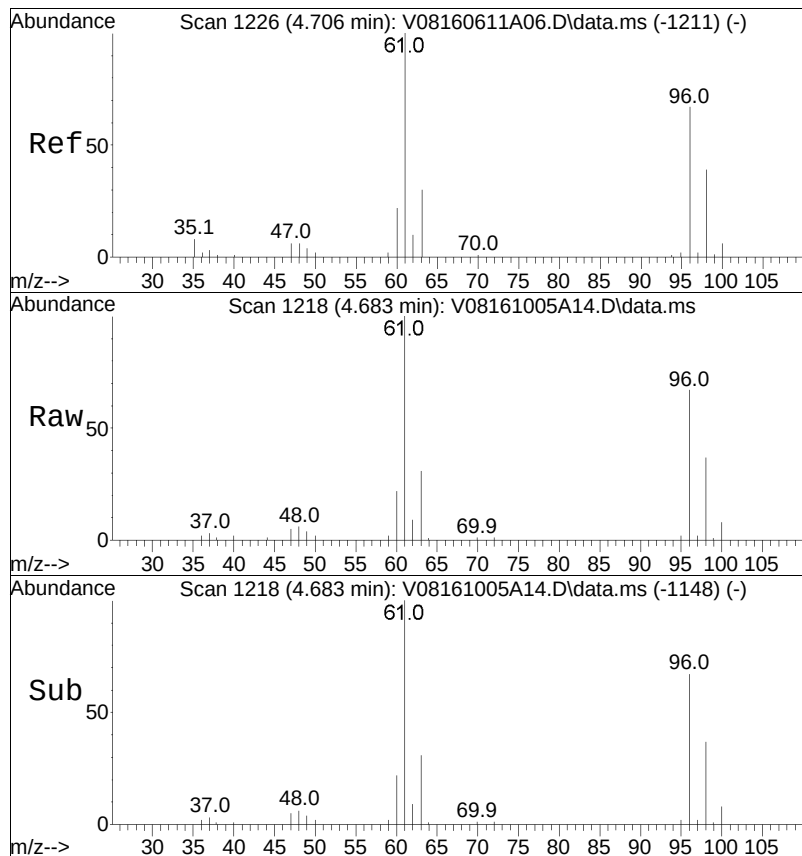




#27
 Vinyl acetate
 Concen: 10.95 ug/L
 RT: 4.407 min Scan# 1119
 Delta R.T. -0.009 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

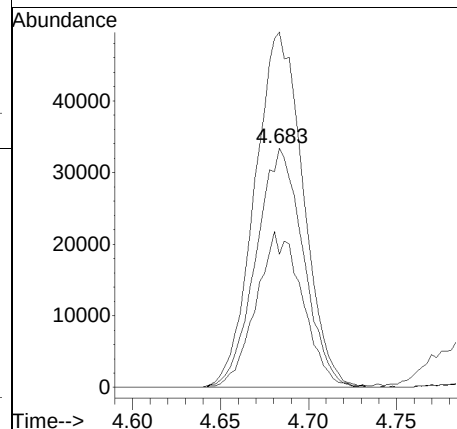
Tgt Ion:	43	86	Resp:	79459	6.6	3.4	5.2#
Ion Ratio	100						

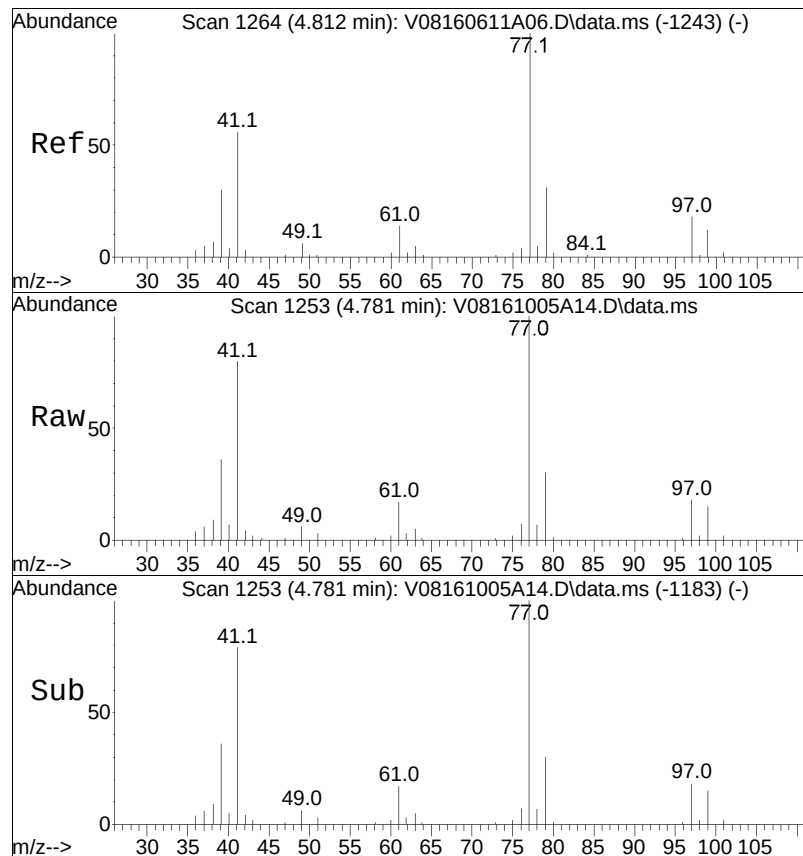




#28
 cis-1,2-Dichloroethene
 Concen: 10.98 ug/L
 RT: 4.683 min Scan# 1218
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

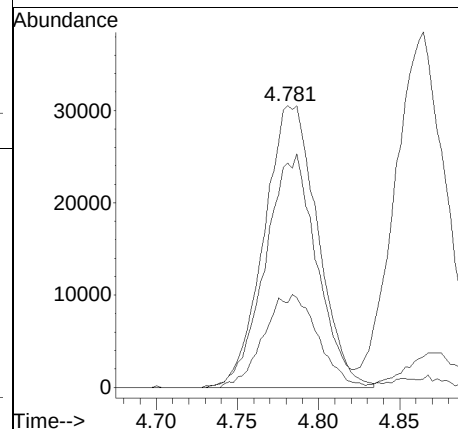
Tgt Ion:	96	Resp:	62569
Ion Ratio	Lower	Upper	
96	100		
61	151.9	127.6	191.4
98	63.8	50.0	75.0

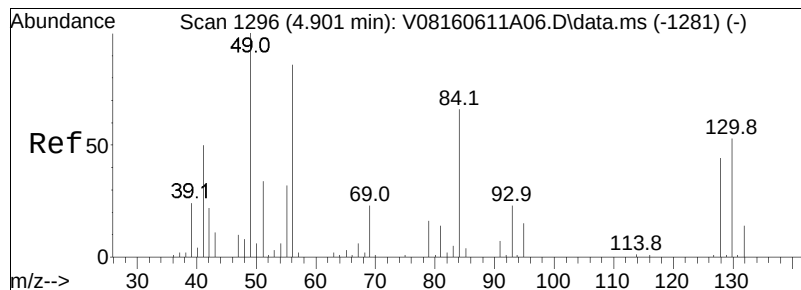




#29
 2,2-Dichloropropane
 Concen: 9.91 ug/L
 RT: 4.781 min Scan# 1253
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

Tgt Ion	Ratio	Lower	Upper
77	100		
41	79.5	52.5	108.9
79	33.1	21.1	43.7





#30

Bromochloromethane

Concen: 10.49 ug/L

RT: 4.873 min Scan# 1286

Delta R.T. -0.008 min

Lab File: V08161005A14.D

Acq: 5 Oct 2016 3:31 pm

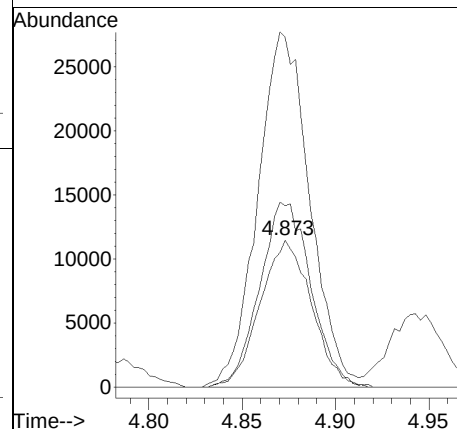
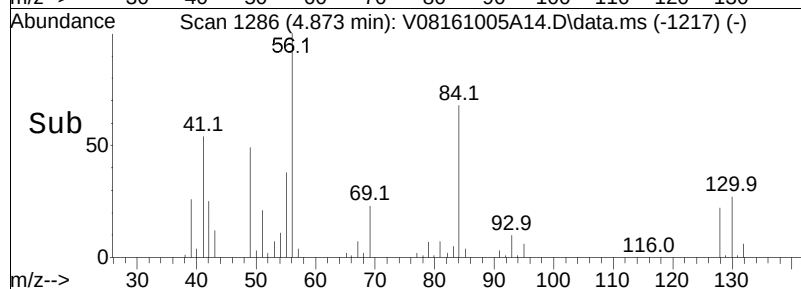
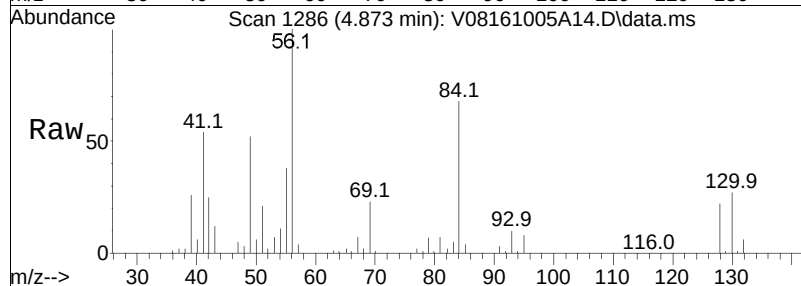
Tgt Ion:128 Resp: 22040

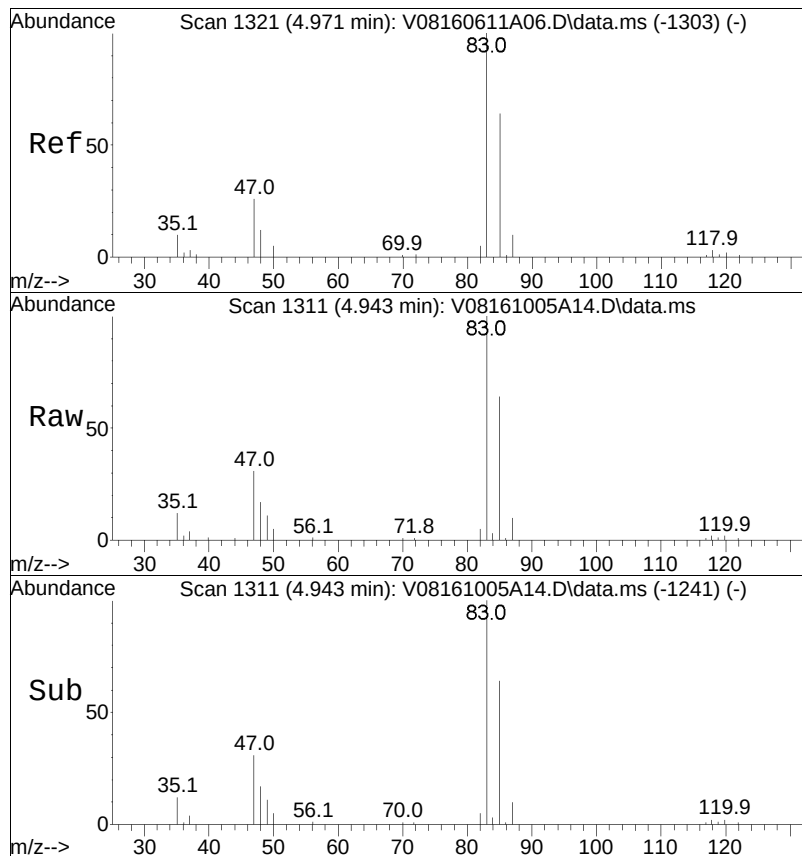
Ion Ratio Lower Upper

128 100

49 242.9 224.2 336.4

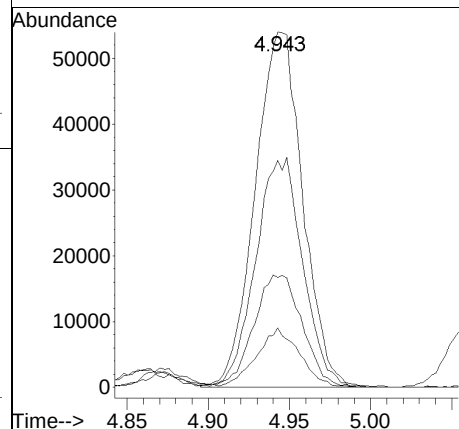
130 125.3 105.3 157.9

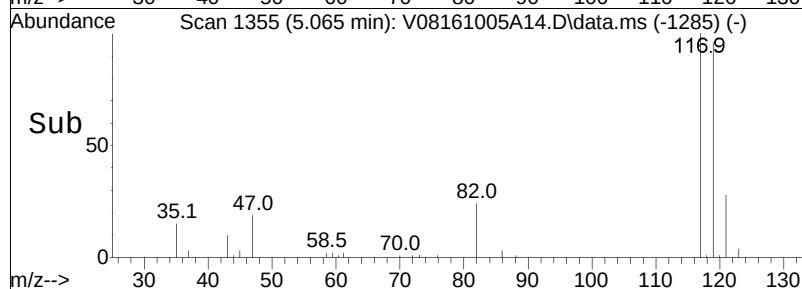
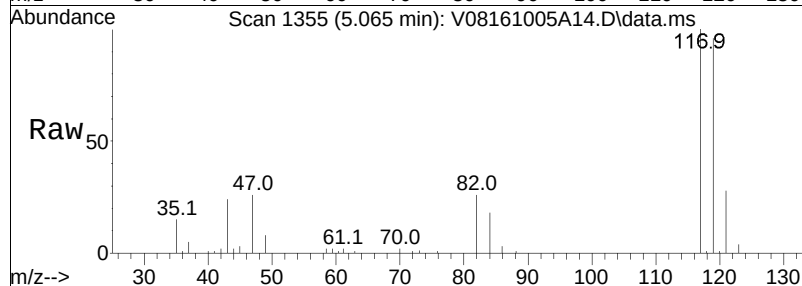
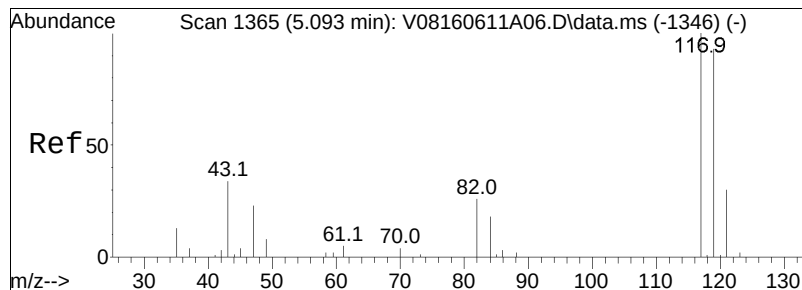




#32
 Chloroform
 Concen: 11.58 ug/L
 RT: 4.943 min Scan# 1311
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

Tgt Ion:	83	Resp:	110538
Ion Ratio	Lower	Upper	
83	100		
85	64.0	42.7	88.7
47	32.1	20.9	43.5
48	15.2	10.5	21.7





#34

Carbon tetrachloride

Concen: 11.97 ug/L M2

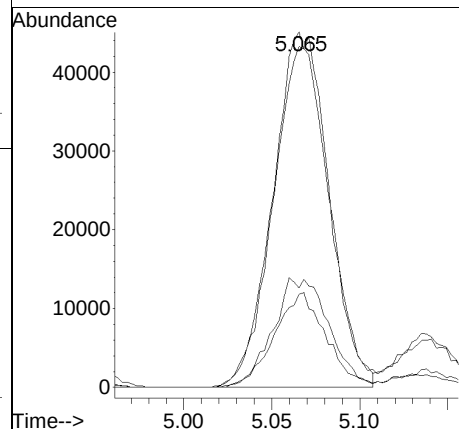
RT: 5.065 min Scan# 1355

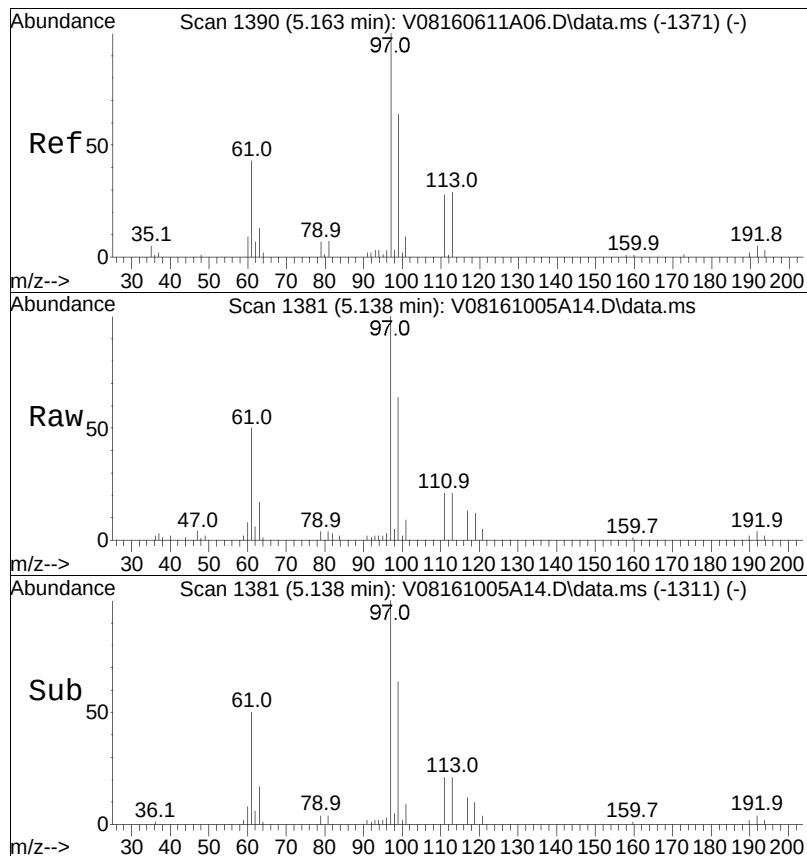
Delta R.T. -0.006 min

Lab File: V08161005A14.D

Acq: 5 Oct 2016 3:31 pm

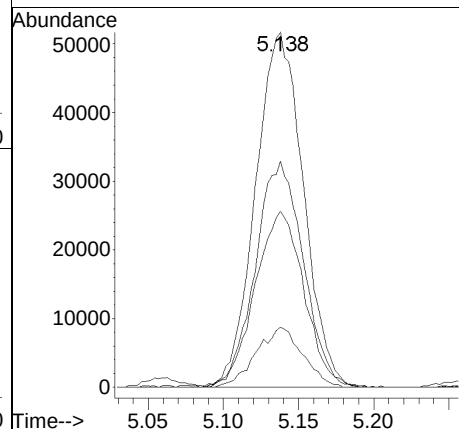
Tgt Ion:	117	Resp:	100070
Ion Ratio	Lower	Upper	
117	100		
119	13.3	62.9	130.5#
121	4.4	20.0	41.4#
82	3.6	16.7	34.7#

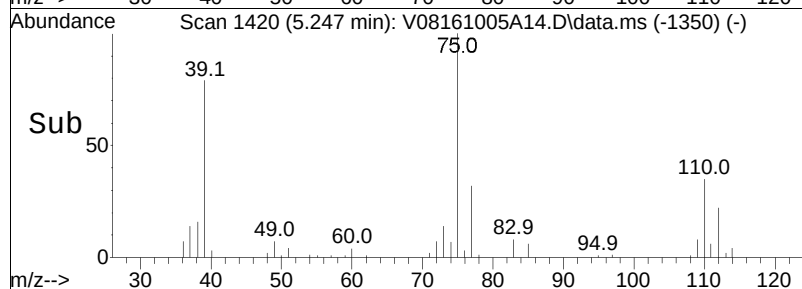
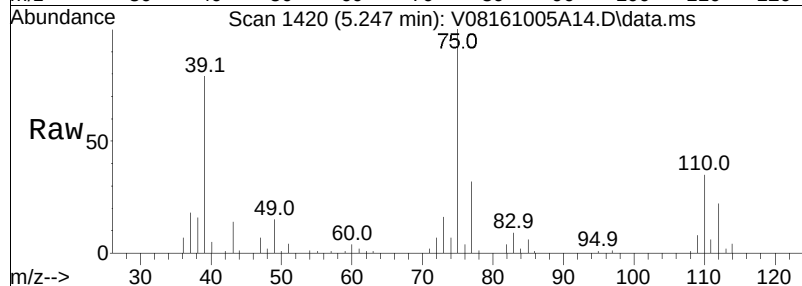
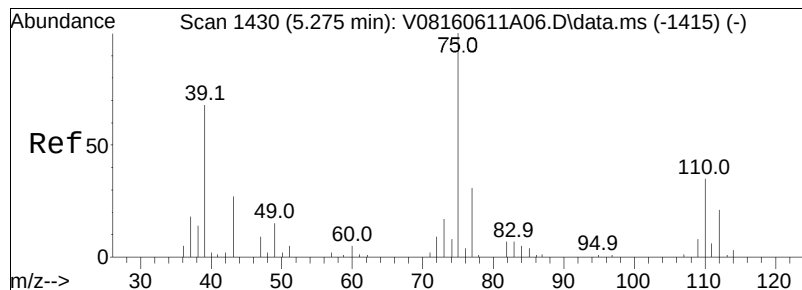




#37
 1,1,1-Trichloroethane
 Concen: 12.58 ug/L
 RT: 5.138 min Scan# 1381
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

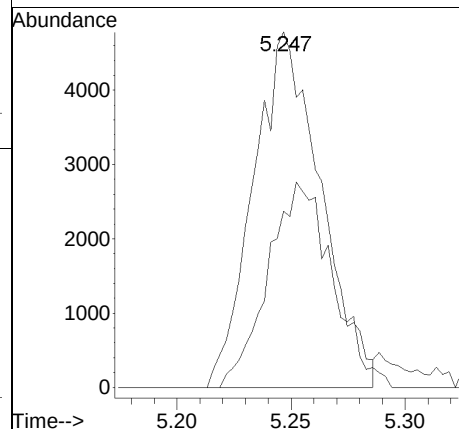
Tgt Ion:	97	Resp:	114611
Ion Ratio	Lower	Upper	
97	100		
99	63.7	40.3	83.7
61	50.5	34.3	71.1
63	16.5	6.0	12.4#

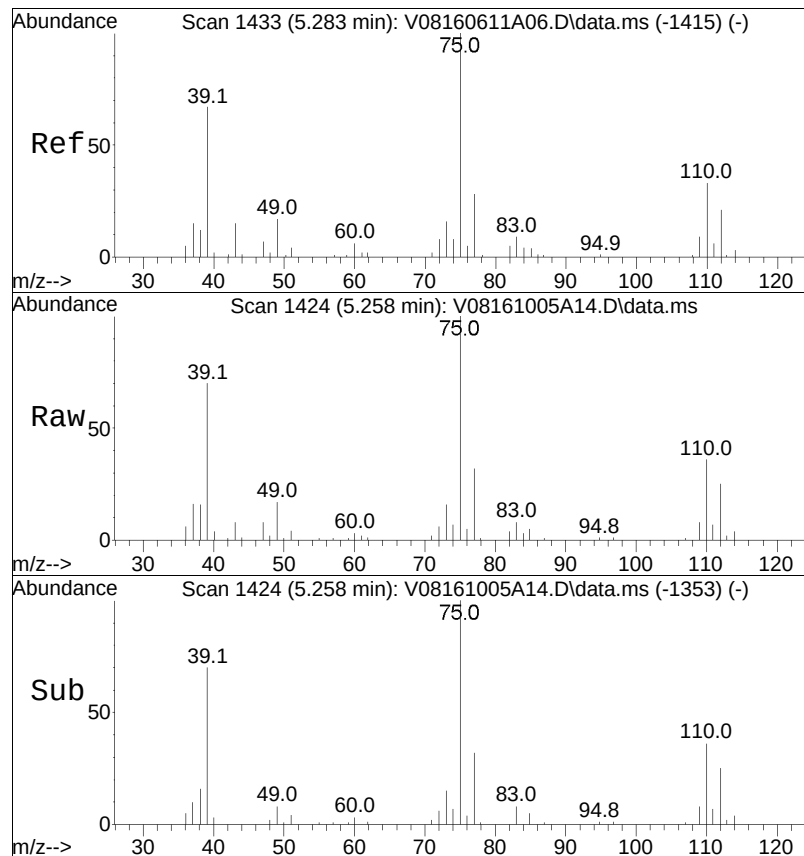




#39
 2-Butanone
 Concen: 10.57 ug/L
 RT: 5.247 min Scan# 1420
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

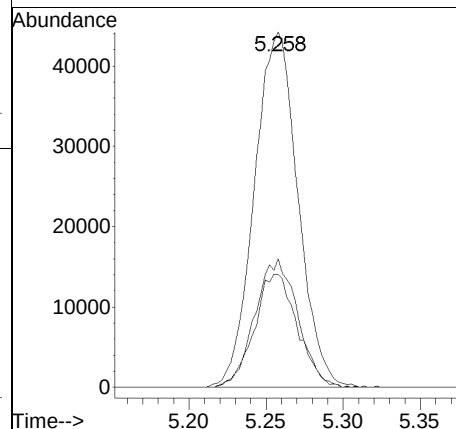
Tgt	Ion	Ratio	Lower	Upper
43	100			
72	55.4	30.0	45.0	

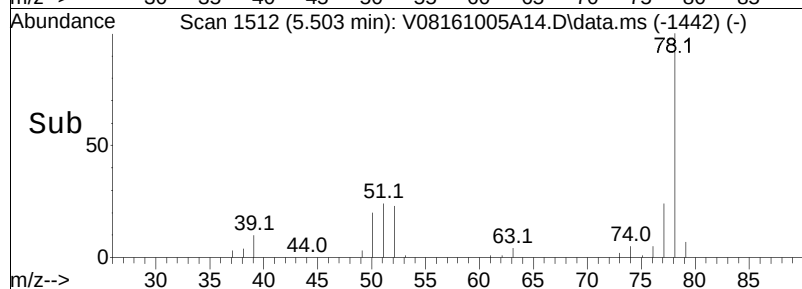
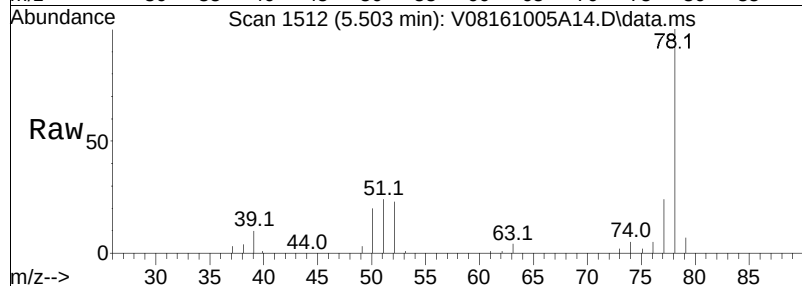
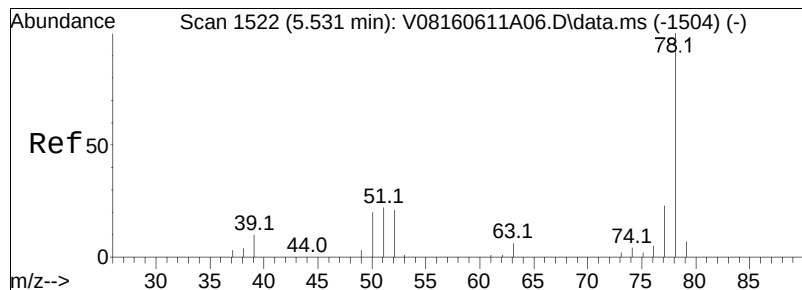




#40
 1,1-Dichloropropene
 Concen: 11.35 ug/L
 RT: 5.258 min Scan# 1424
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

Tgt Ion:	75	Resp:	87003
Ion Ratio	Lower	Upper	
75	100		
110	35.7	22.9	47.7
77	31.4	20.3	42.3





#41

Benzene

Concen: 11.17 ug/L

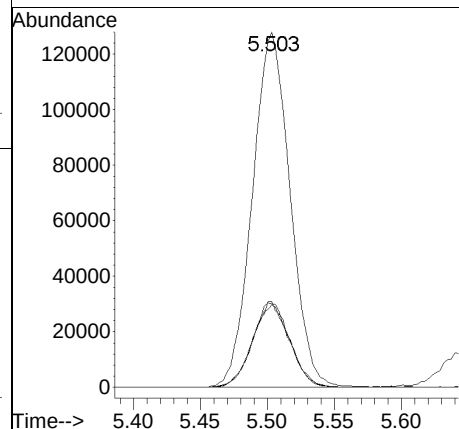
RT: 5.503 min Scan# 1512

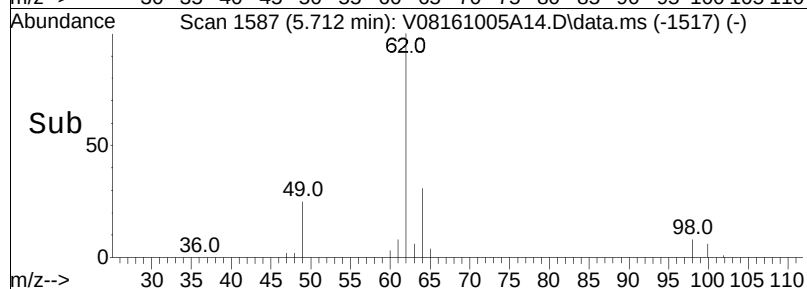
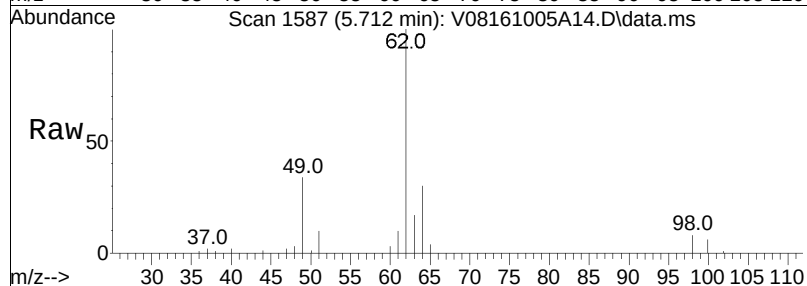
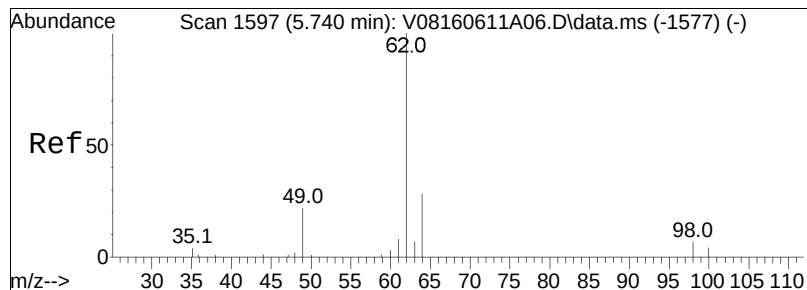
Delta R.T. -0.006 min

Lab File: V08161005A14.D

Acq: 5 Oct 2016 3:31 pm

Tgt Ion:	78	Resp:	250509
Ion Ratio	Lower	Upper	
78	100		
77	23.7	14.9	30.9
51	23.9	15.7	32.7
52	23.2	15.8	32.8





#44

1,2-Dichloroethane

Concen: 10.23 ug/L

RT: 5.712 min Scan# 1587

Delta R.T. -0.006 min

Lab File: V08161005A14.D

Acq: 5 Oct 2016 3:31 pm

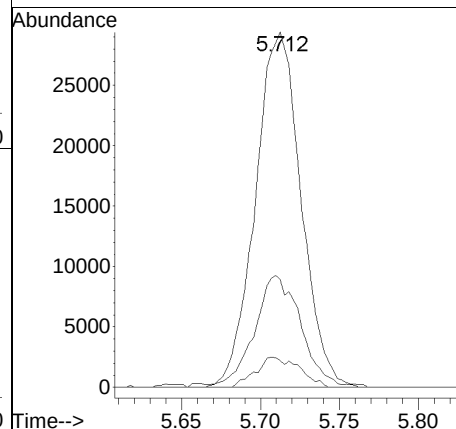
Tgt Ion: 62 Resp: 59064

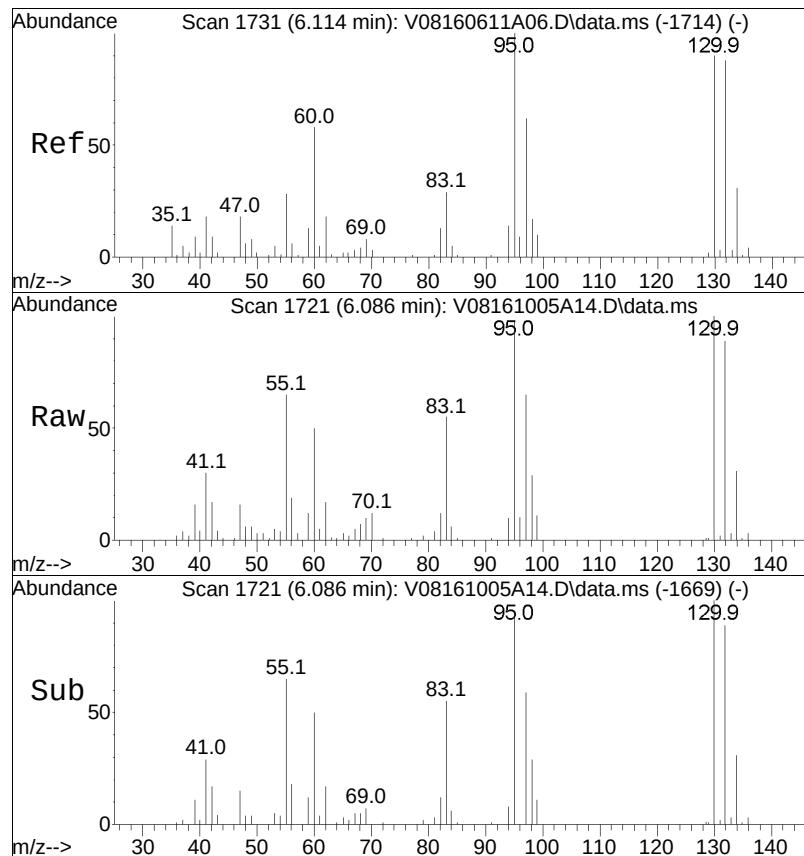
Ion Ratio Lower Upper

62 100

64 32.1 10.9 50.9

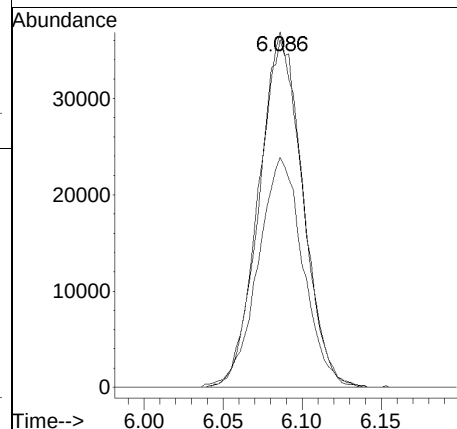
98 8.2 0.0 23.4

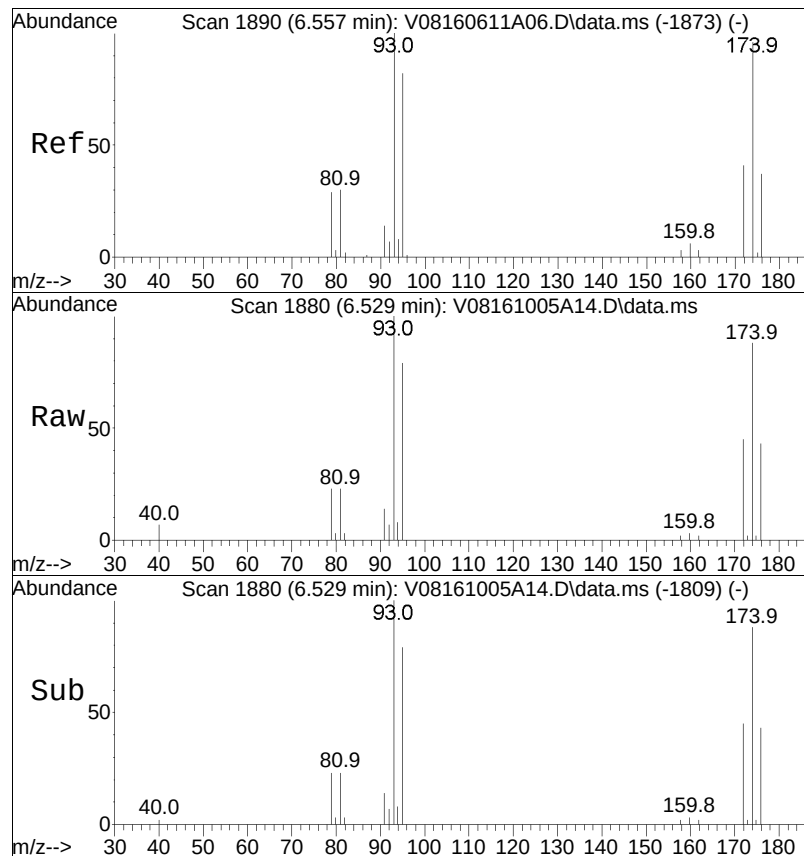




#48
 Trichloroethene
 Concen: 11.80 ug/L
 RT: 6.086 min Scan# 1721
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

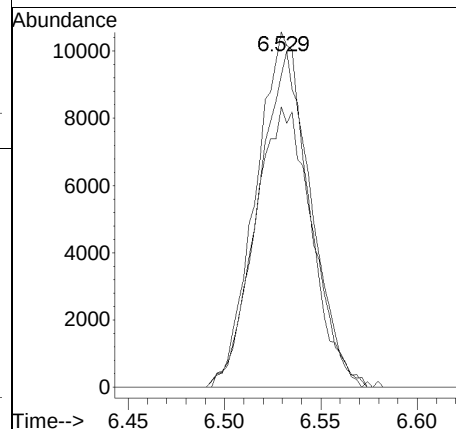
Tgt Ion:	95	Resp:	71230
Ion Ratio	Lower	Upper	
95	100		
97	66.7	55.1	82.7
130	98.6	77.3	115.9

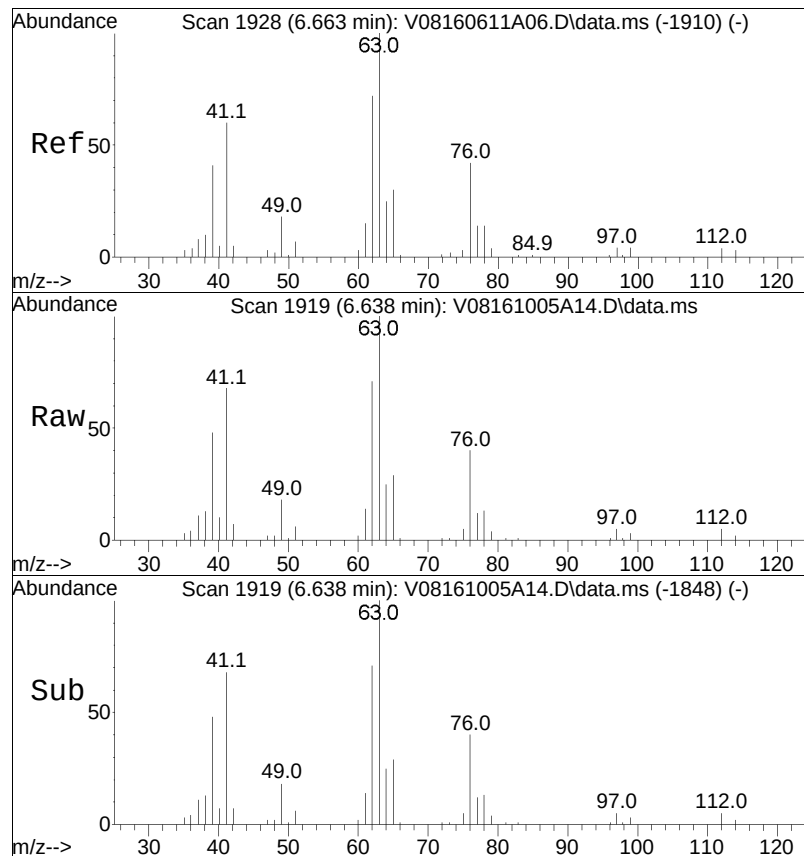




#50
 Dibromomethane
 Concen: 10.59 ug/L
 RT: 6.529 min Scan# 1880
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

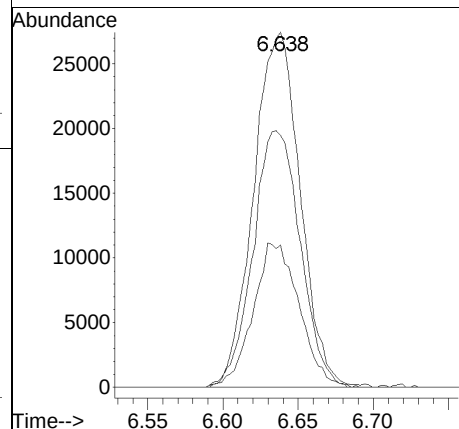
Tgt Ion:	93	Resp:	20815
Ion Ratio	Lower	Upper	
93	100		
95	82.2	66.7	100.1
174	90.0	67.9	101.9

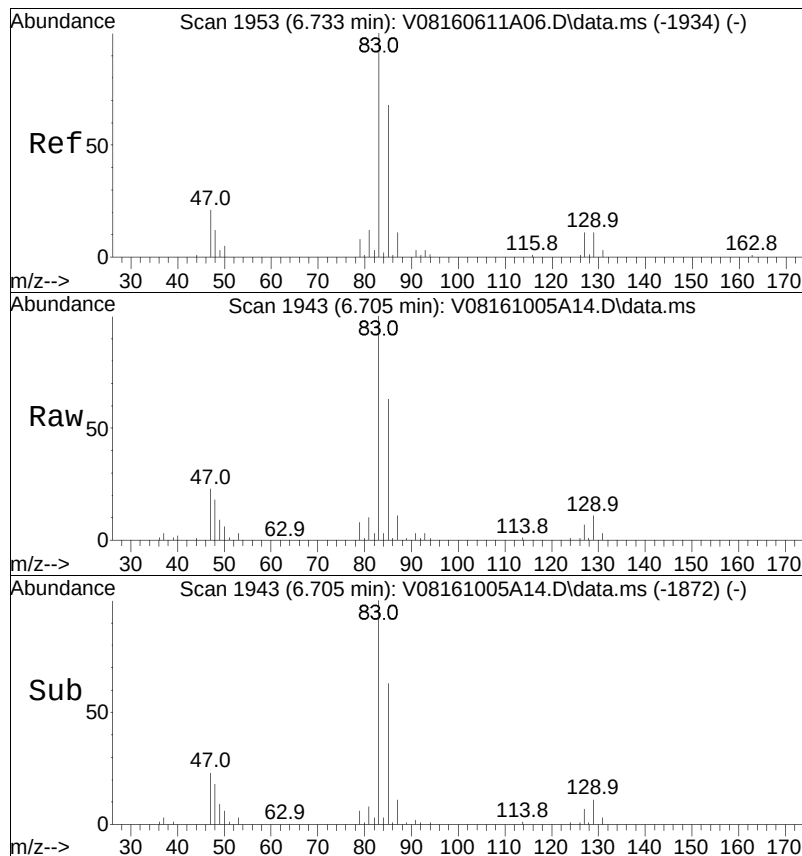




#51
 1,2-Dichloropropane
 Concen: 10.30 ug/L
 RT: 6.638 min Scan# 1919
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

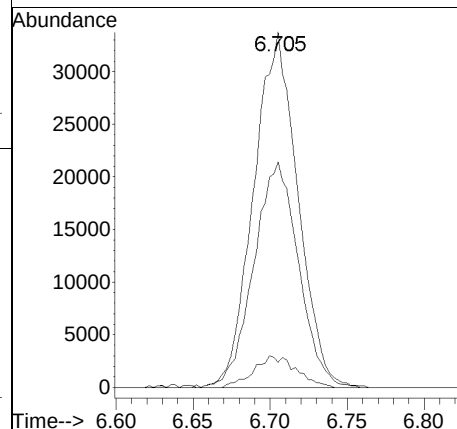
Tgt	Ion: 63	Resp:	59337
Ion	Ratio	Lower	Upper
63	100		
62	73.1	57.8	86.6
76	40.1	28.0	42.0

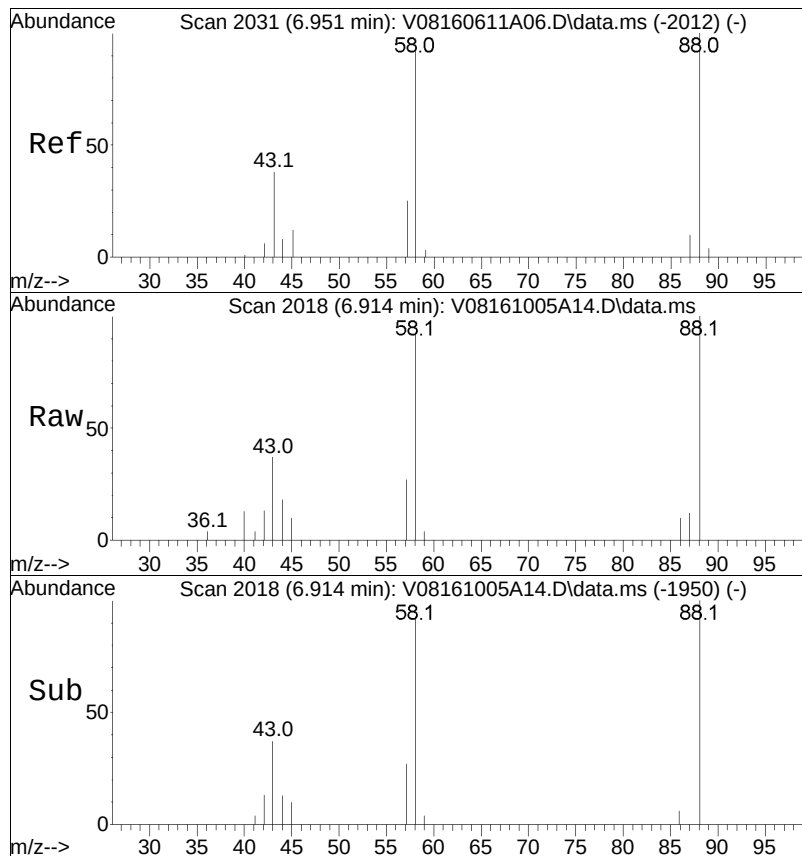




#54
 Bromodichloromethane
 Concen: 11.04 ug/L
 RT: 6.705 min Scan# 1943
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

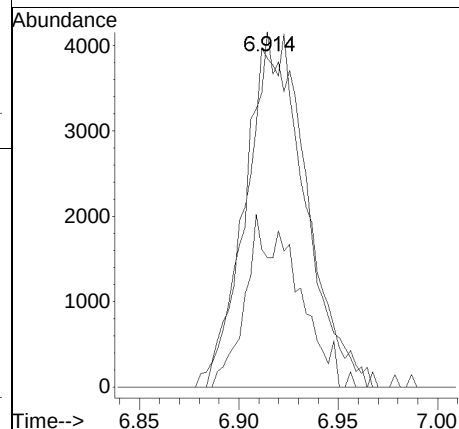
Tgt Ion:	83	Resp:	67265
Ion Ratio	Lower	Upper	
83	100		
85	64.3	51.5	77.3
127	8.6	4.2	6.4#

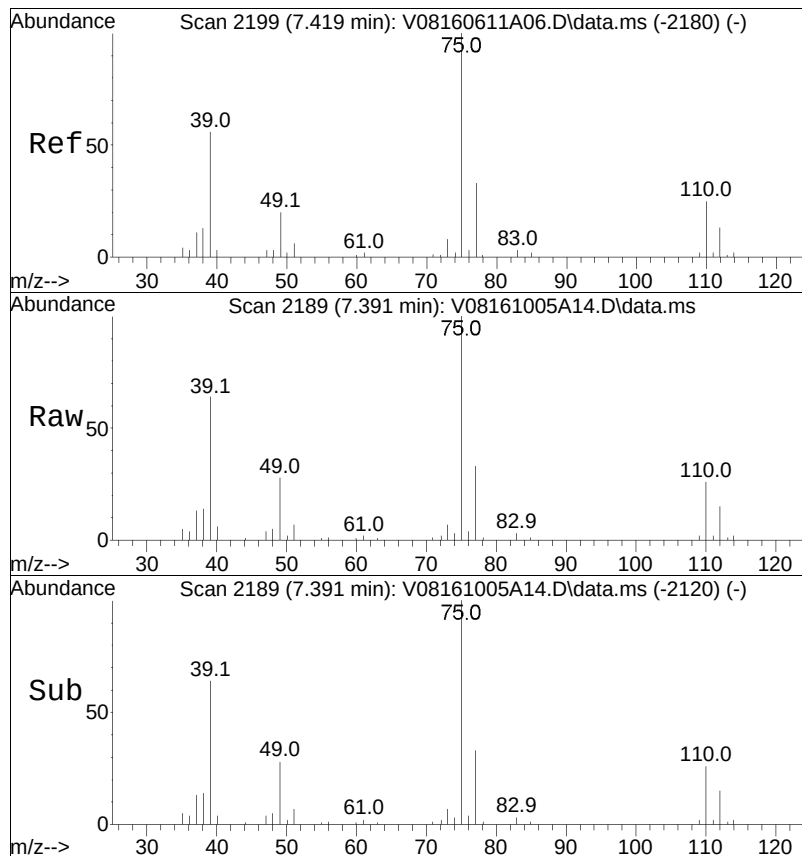




#57
 1,4-Dioxane
 Concen: 466.79 ug/L
 RT: 6.914 min Scan# 2018
 Delta R.T. -0.011 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

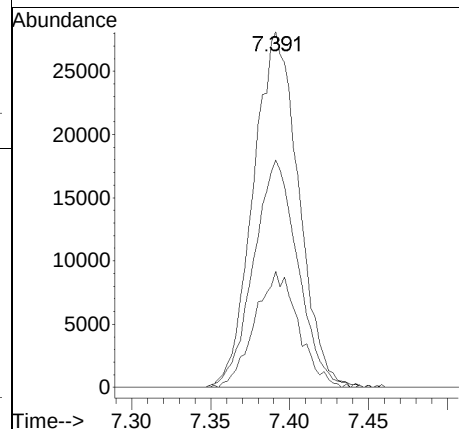
Tgt Ion:	88	Resp:	8692
Ion Ratio	Lower	Upper	
88	100		
58	99.8	70.8	106.2
43	21.0	29.3	43.9#

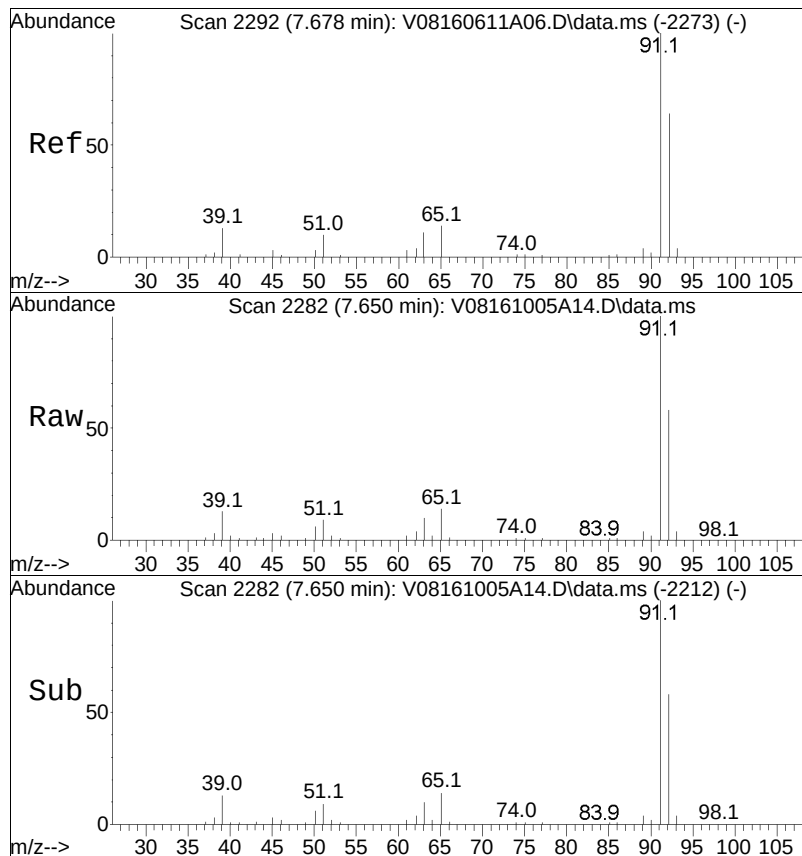




#58
 cis-1,3-Dichloropropene
 Concen: 8.54 ug/L
 RT: 7.391 min Scan# 2189
 Delta R.T. -0.008 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

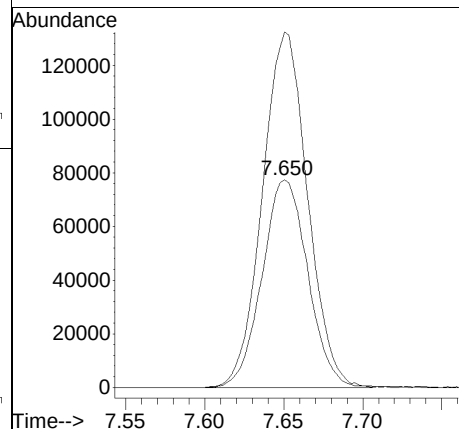
Tgt Ion:	75	Resp:	56175
Ion Ratio	Lower	Upper	
75	100		
77	31.5	24.6	37.0
39	62.5	48.9	73.3

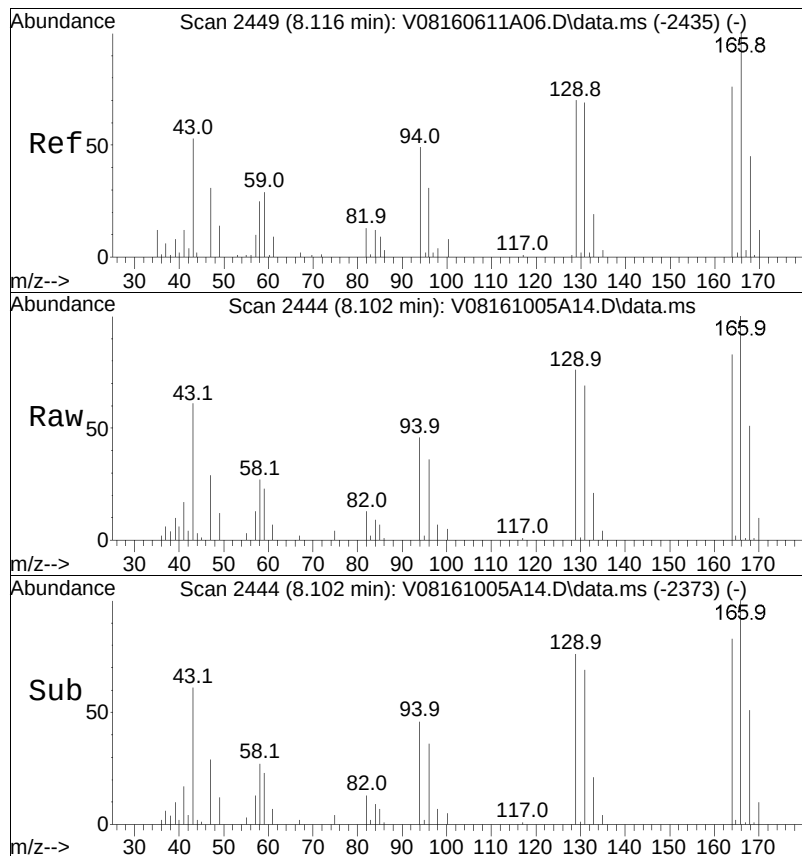




#61
 Toluene
 Concen: 11.48 ug/L
 RT: 7.650 min Scan# 2282
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

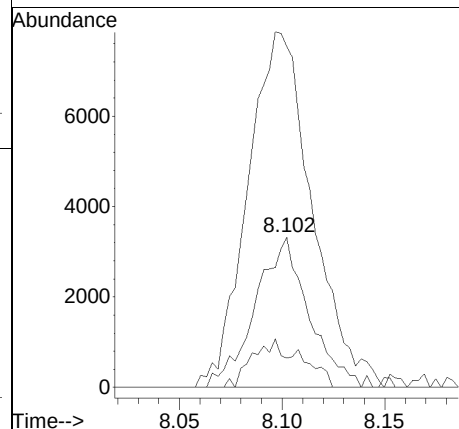
Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.1	132.6	198.8

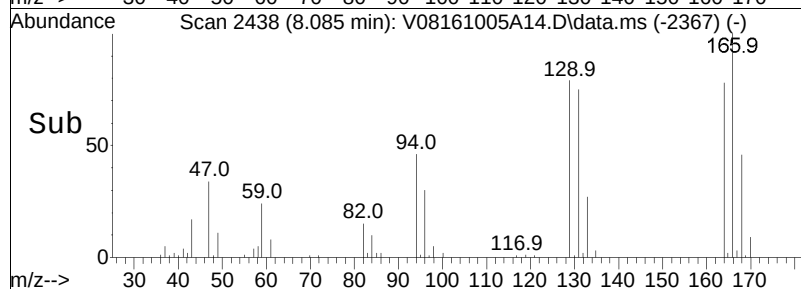
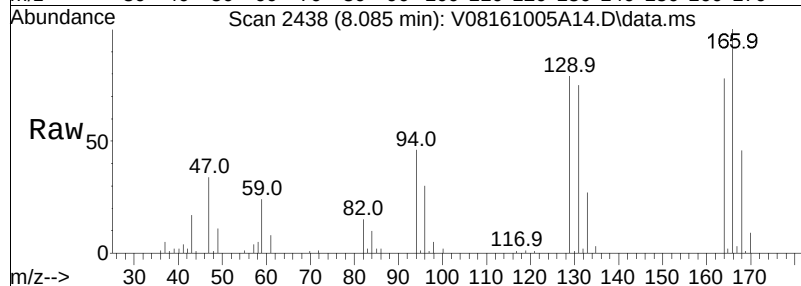
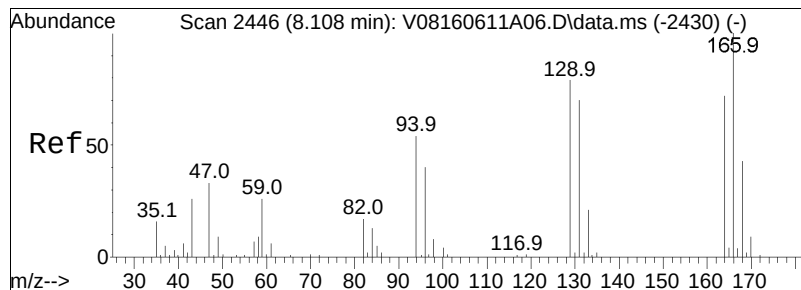




#62
 4-Methyl-2-pentanone
 Concen: 7.44 ug/L
 RT: 8.102 min Scan# 2444
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

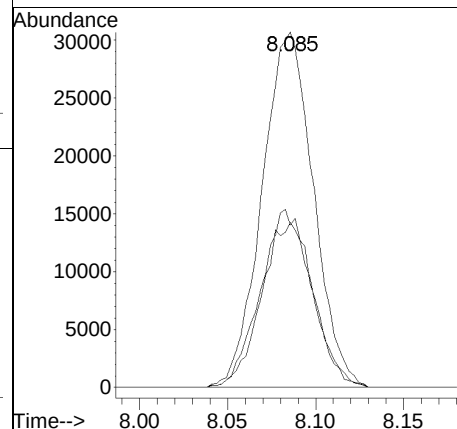
Tgt	Ion: 58	Resp:	6053
Ion	Ratio	Lower	Upper
58	100		
100	18.7	21.5	32.3#
43	282.6	204.0	306.0

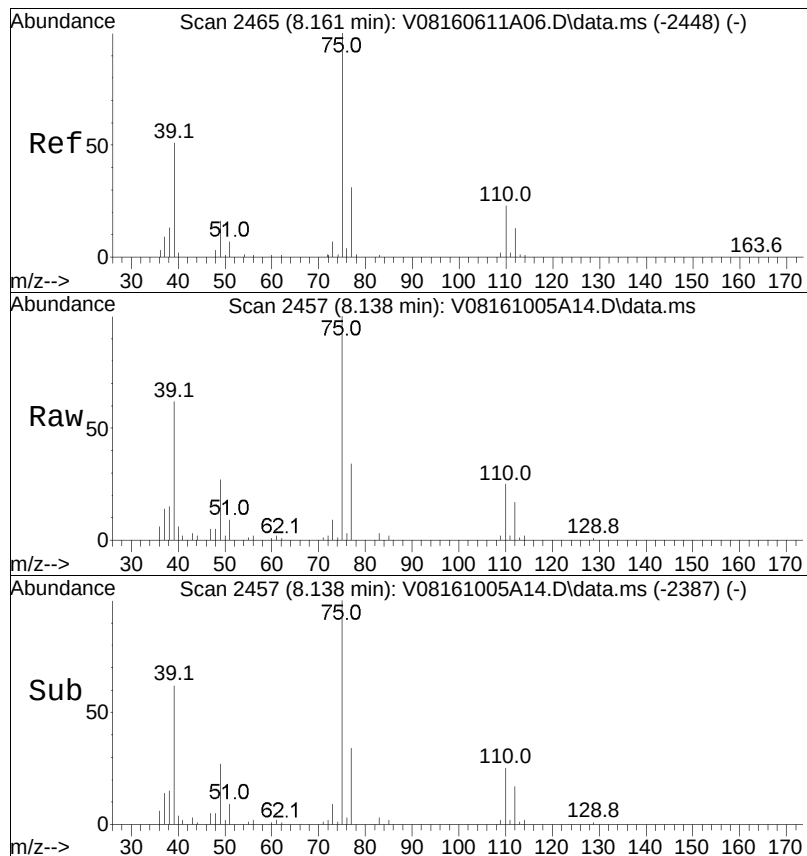




#63
 Tetrachloroethene
 Concen: 11.01 ug/L
 RT: 8.085 min Scan# 2438
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

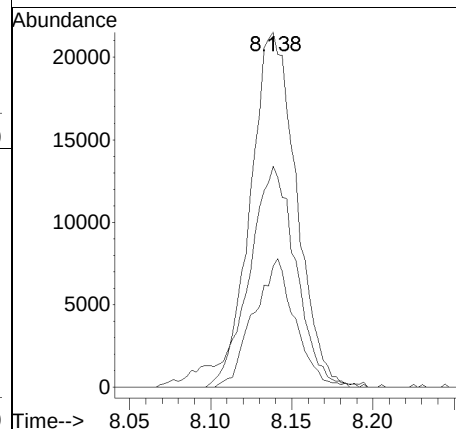
Tgt Ion	Ratio	Lower	Upper
166	100		
168	47.5	28.7	68.7
94	50.0	32.1	72.1

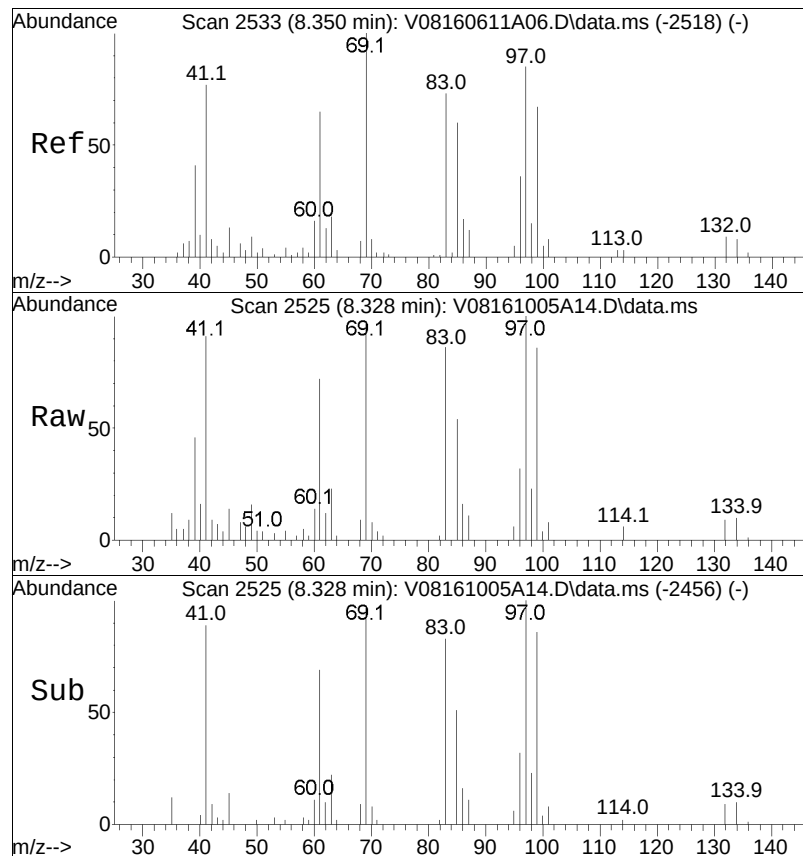




#65
 trans-1,3-Dichloropropene
 Concen: 9.32 ug/L
 RT: 8.138 min Scan# 2457
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

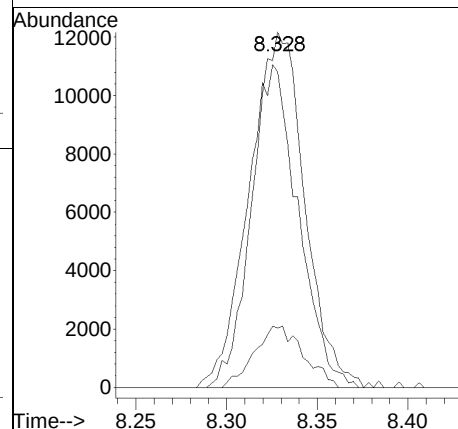
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	12.1	52.1
39	66.9	45.2	85.2

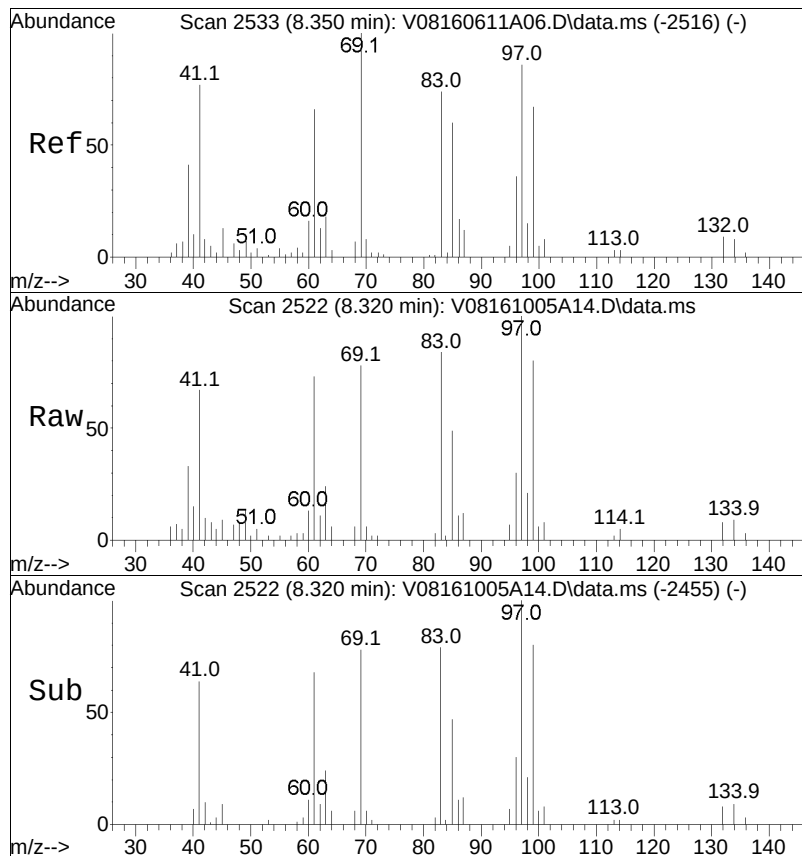




#67
 Ethyl methacrylate
 Concen: 7.86 ug/L
 RT: 8.328 min Scan# 2525
 Delta R.T. -0.008 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

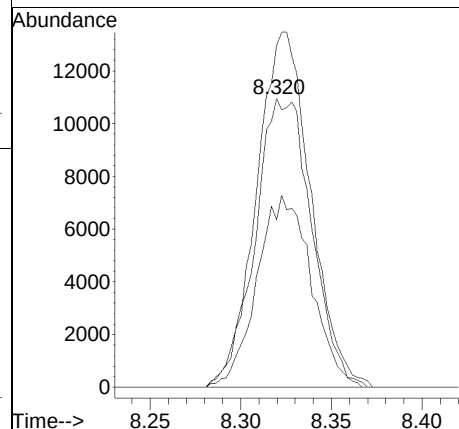
Tgt Ion:	69	Resp:	24046
Ion Ratio	Lower	Upper	
69	100		
99	91.2	55.8	95.8
86	16.5	0.0	36.2

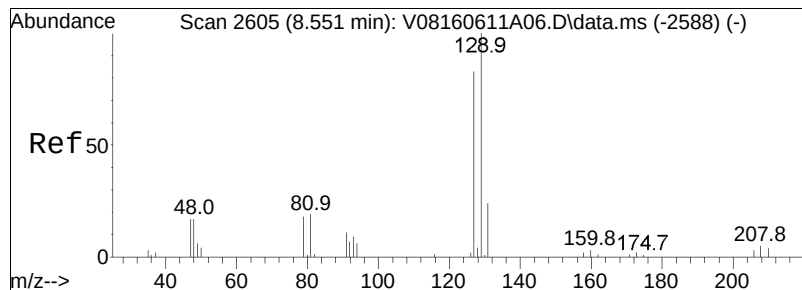




#68
 1,1,2-Trichloroethane
 Concen: 11.06 ug/L
 RT: 8.320 min Scan# 2522
 Delta R.T. -0.014 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

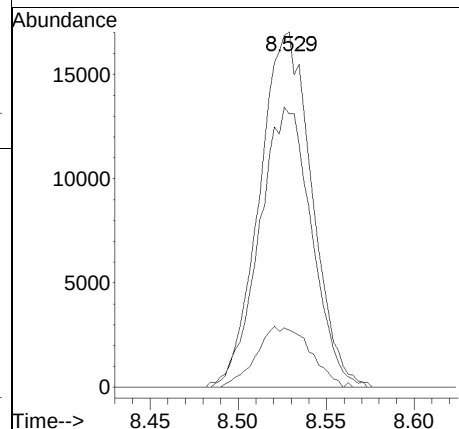
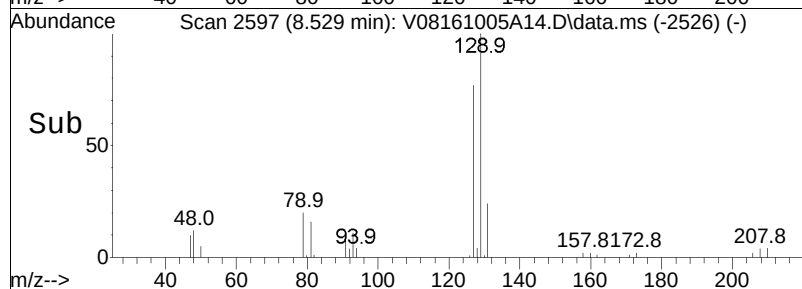
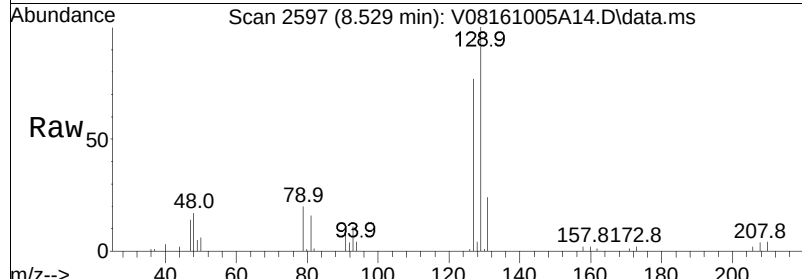
Tgt Ion:	83	Resp:	23713
Ion Ratio	Lower	Upper	
83	100		
97	118.3	98.1	138.1
85	63.9	46.0	86.0

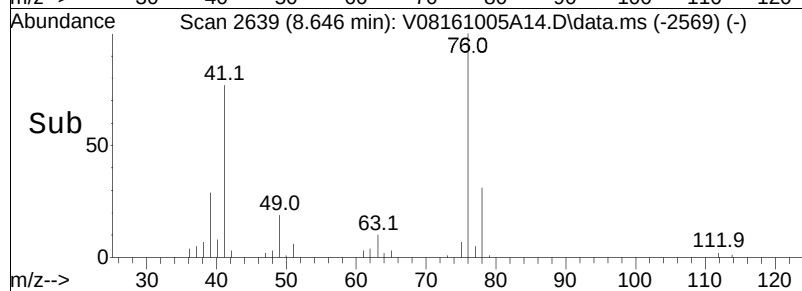
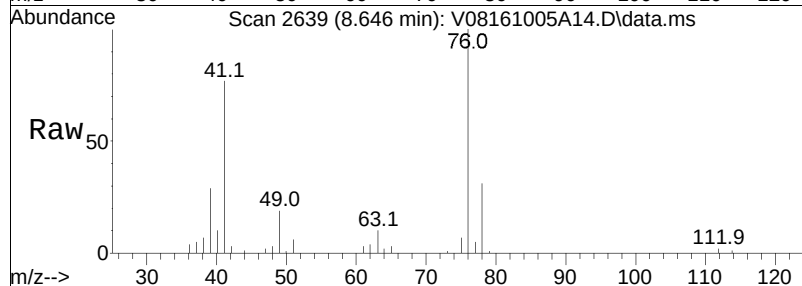
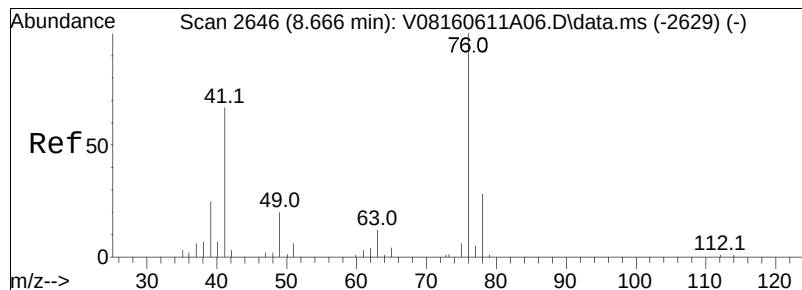




#69
 Chlorodibromomethane
 Concen: 10.65 ug/L
 RT: 8.529 min Scan# 2597
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

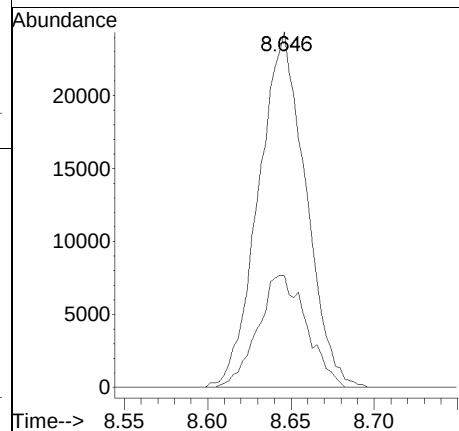
Tgt	Ion	Ratio	Resp	Lower	Upper
129	100		35296		
81	17.7	0.0	37.5		
127	79.0	56.3	96.3		

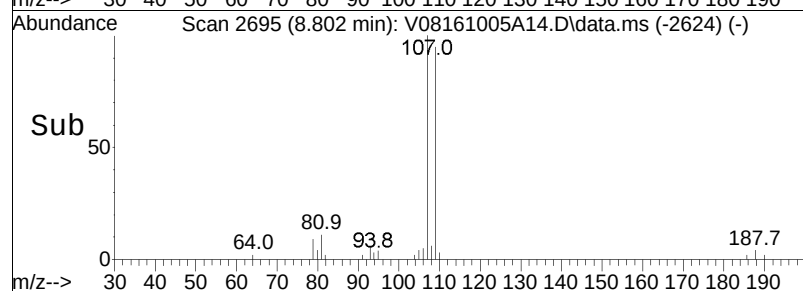
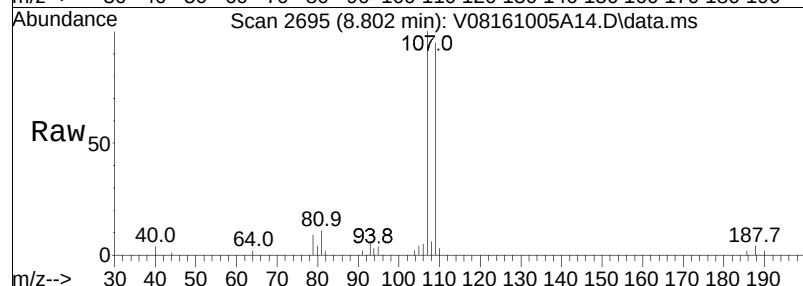
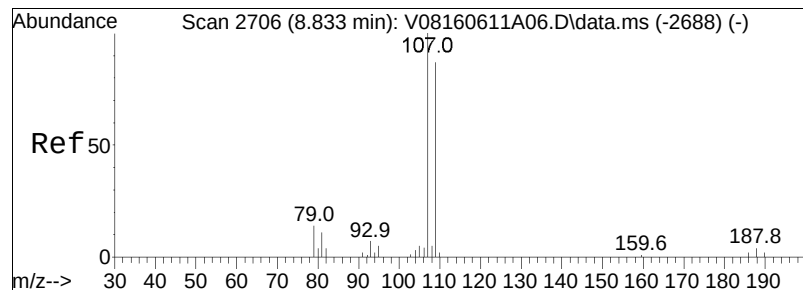




#70
 1,3-Dichloropropane
 Concen: 10.34 ug/L
 RT: 8.646 min Scan# 2639
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

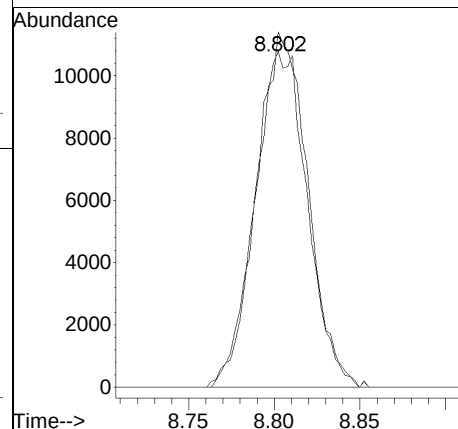
Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.9	38.9

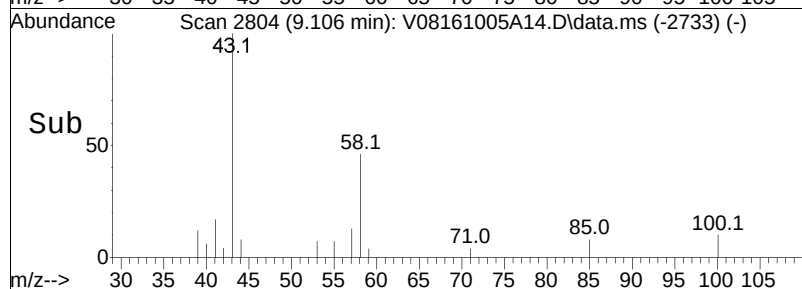
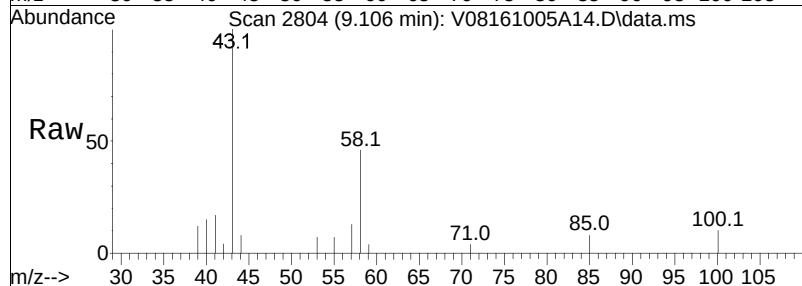
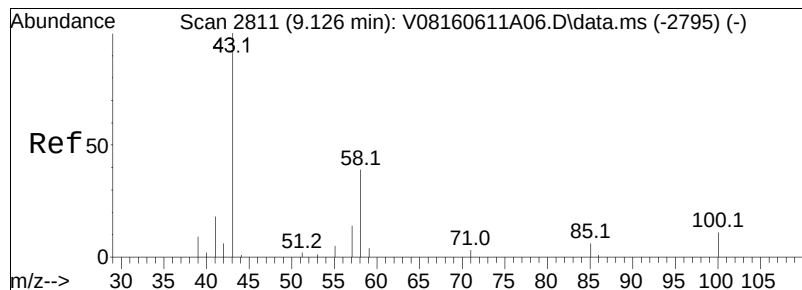




#71
 1,2-Dibromoethane
 Concen: 10.19 ug/L
 RT: 8.802 min Scan# 2695
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.1	78.1	117.1





#72

2-Hexanone

Concen: 7.21 ug/L

RT: 9.106 min Scan# 2804

Delta R.T. -0.003 min

Lab File: V08161005A14.D

Acq: 5 Oct 2016 3:31 pm

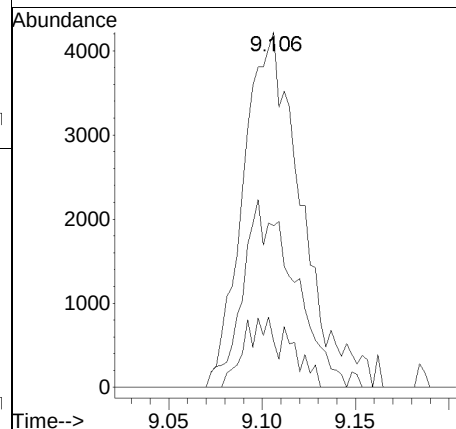
Tgt Ion: 43 Resp: 9132

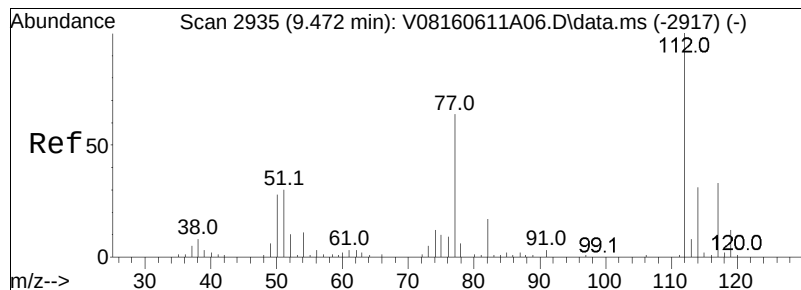
Ion Ratio Lower Upper

43 100

58 20.1 40.6 60.8#

57 10.1 14.7 22.1#





#73

Chlorobenzene

Concen: 10.45 ug/L

RT: 9.449 min Scan# 2927

Delta R.T. -0.006 min

Lab File: V08161005A14.D

Acq: 5 Oct 2016 3:31 pm

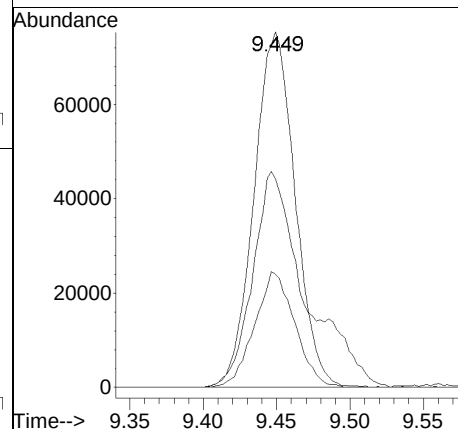
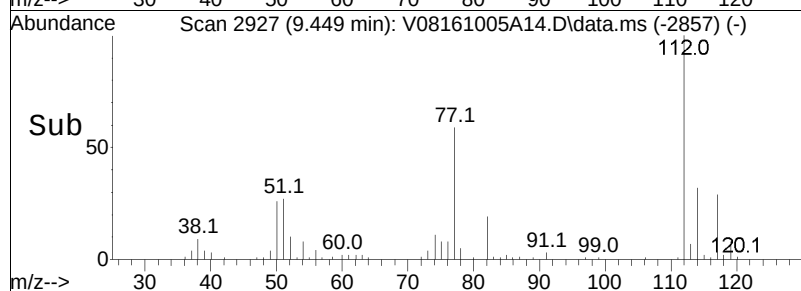
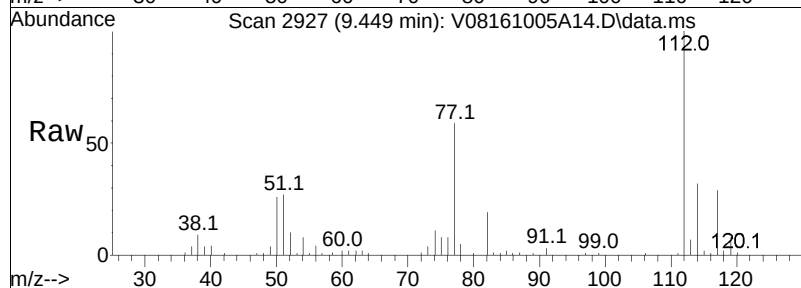
Tgt Ion:112 Resp: 146789

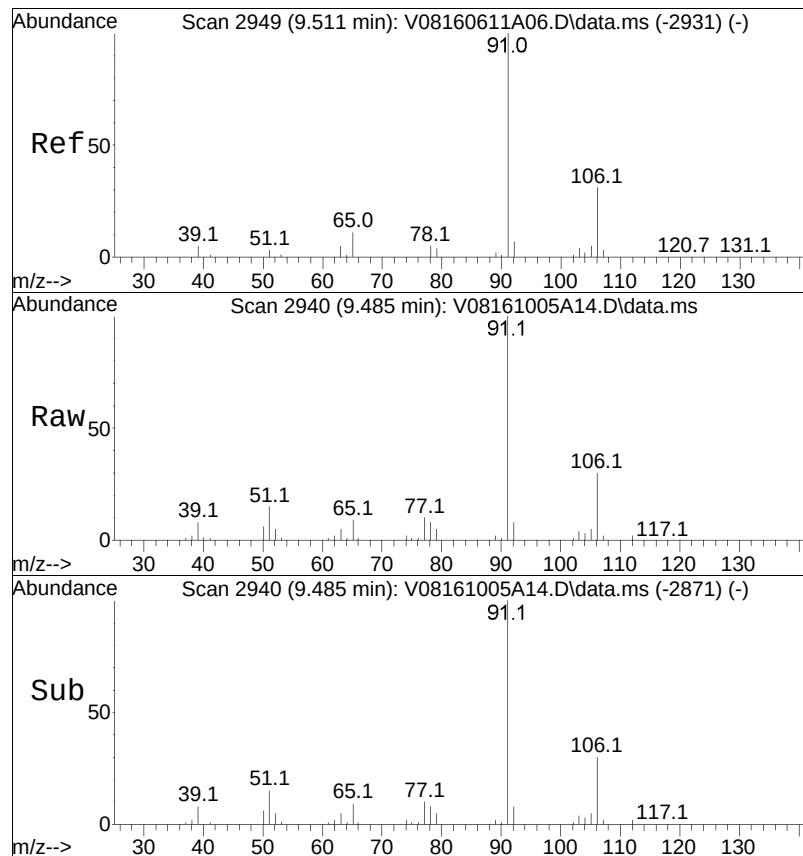
Ion Ratio Lower Upper

112 100

77 77.9 61.0 91.6

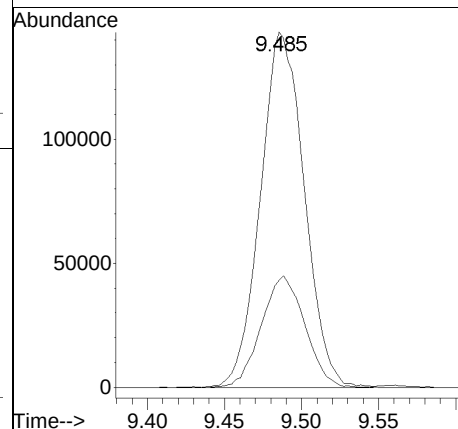
114 31.8 25.5 38.3

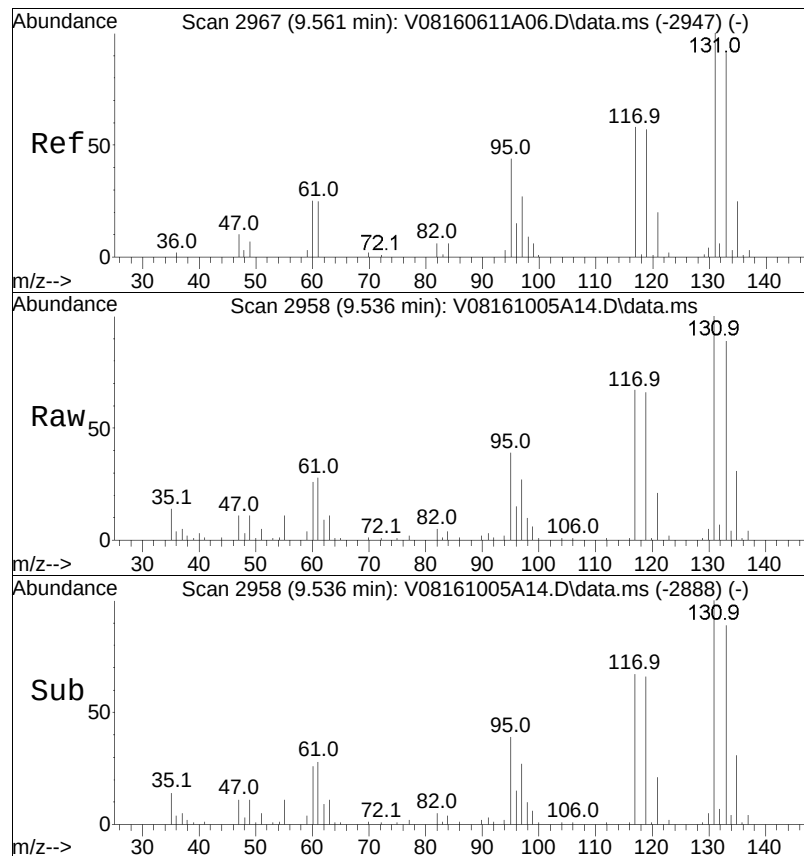




#74
 Ethylbenzene
 Concen: 11.28 ug/L
 RT: 9.485 min Scan# 2940
 Delta R.T. -0.009 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

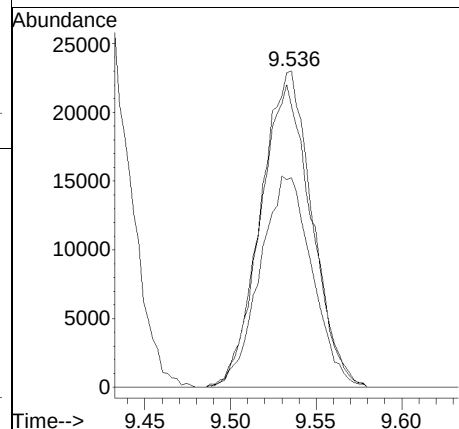
Tgt	Ion	Resp	Lower	Upper
91	100	283580		
106	31.1	24.2	36.2	

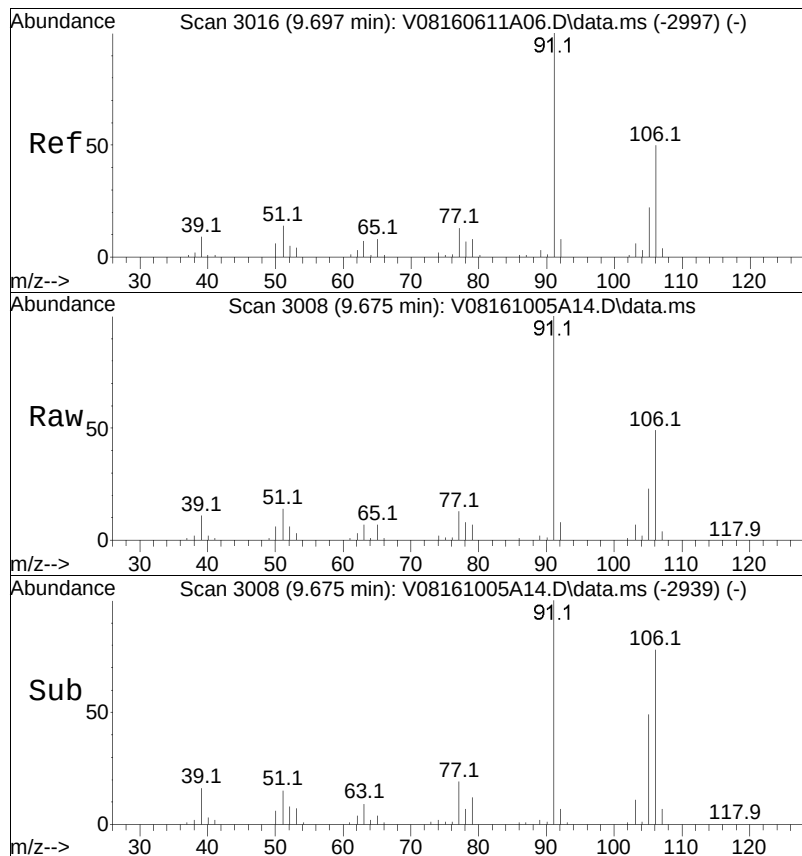




#75
 1,1,1,2-Tetrachloroethane
 Concen: 10.64 ug/L
 RT: 9.536 min Scan# 2958
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

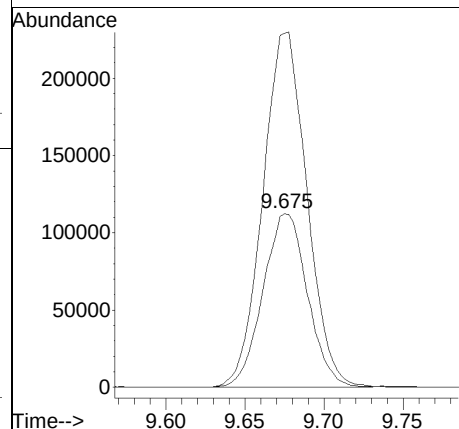
Tgt Ion:	131	Resp:	48307
Ion Ratio	Lower	Upper	
131	100		
133	95.2	76.8	116.8
119	67.6	44.9	84.9

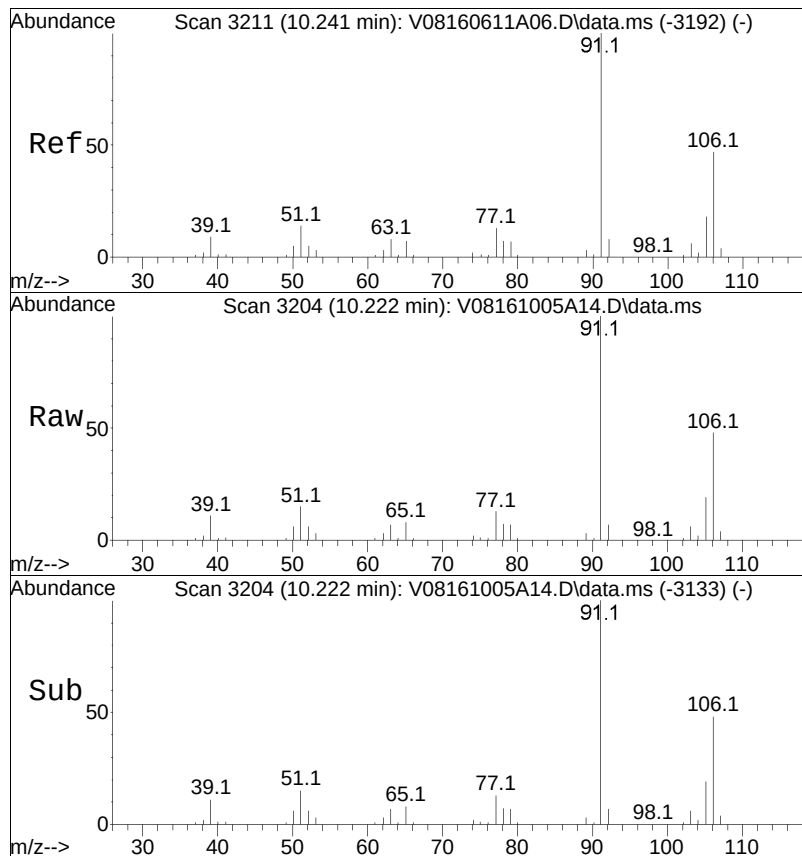




#76
 p/m Xylene
 Concen: 22.22 ug/L
 RT: 9.675 min Scan# 3008
 Delta R.T. -0.008 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

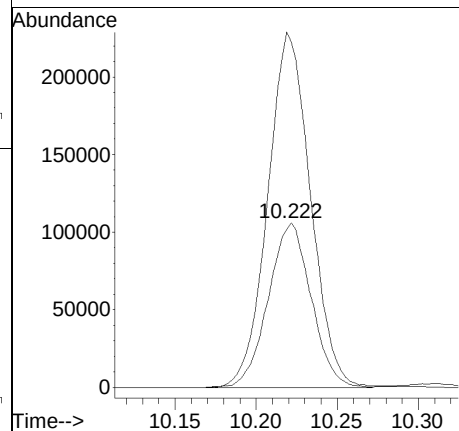
Tgt	Ion	Ratio	Lower	Upper
106	106	100		
91	202.5	167.8	251.6	

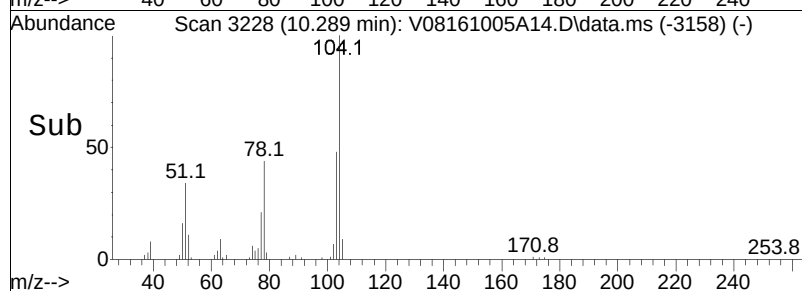
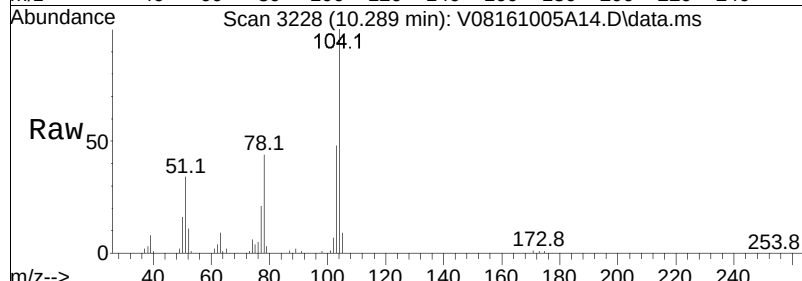
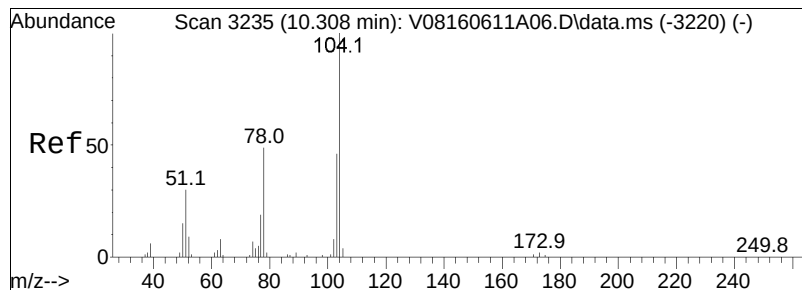




#77
 o Xylene
 Concen: 21.75 ug/L
 RT: 10.222 min Scan# 3204
 Delta R.T. -0.002 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

Tgt Ion	106	91	Ratio	100	Resp	194140	Lower	Upper
106	100							
91	215.4						176.2	264.4





#78

Styrene

Concen: 21.80 ug/L

RT: 10.289 min Scan# 3228

Delta R.T. -0.005 min

Lab File: V08161005A14.D

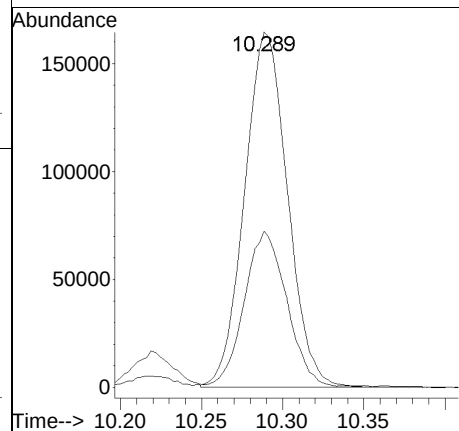
Acq: 5 Oct 2016 3:31 pm

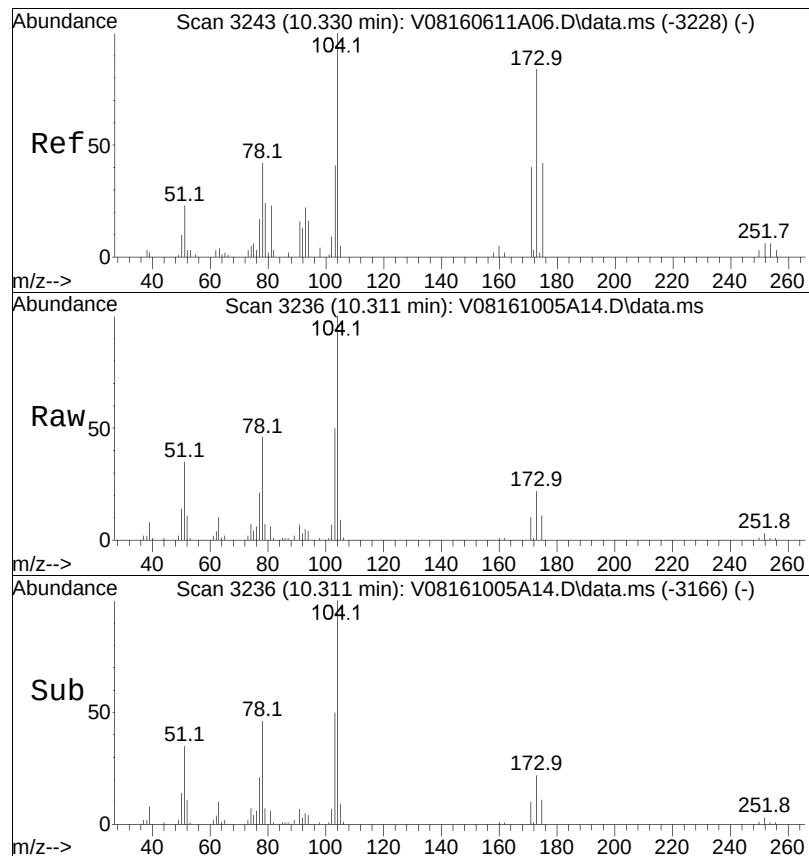
Tgt Ion:104 Resp: 303042

Ion Ratio Lower Upper

104 100

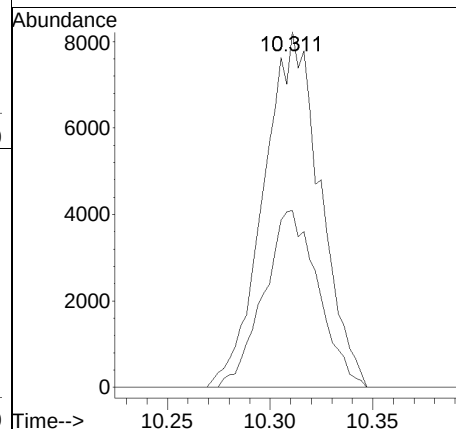
78 43.8 36.0 54.0

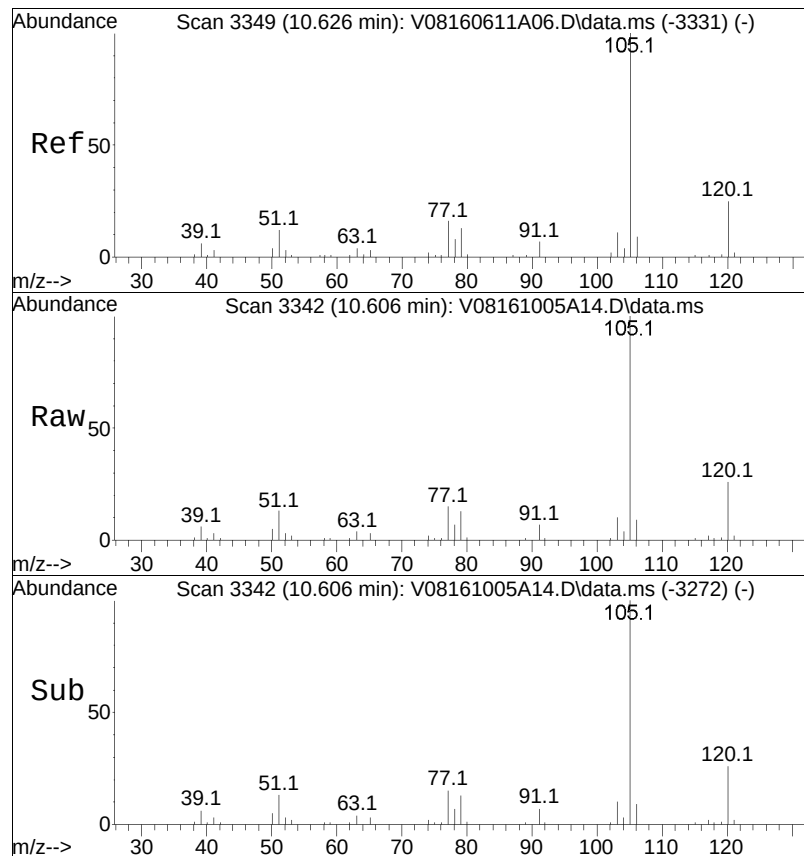




#80
 Bromoform
 Concen: 10.61 ug/L
 RT: 10.311 min Scan# 3236
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

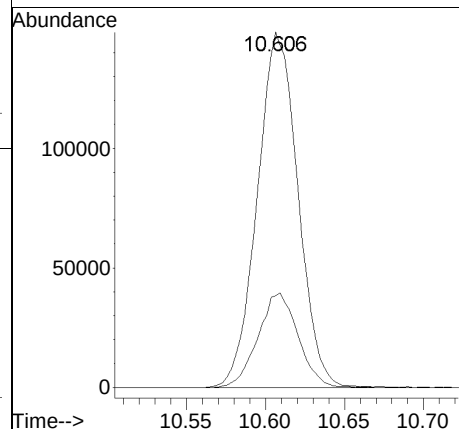
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.9	27.7	67.7

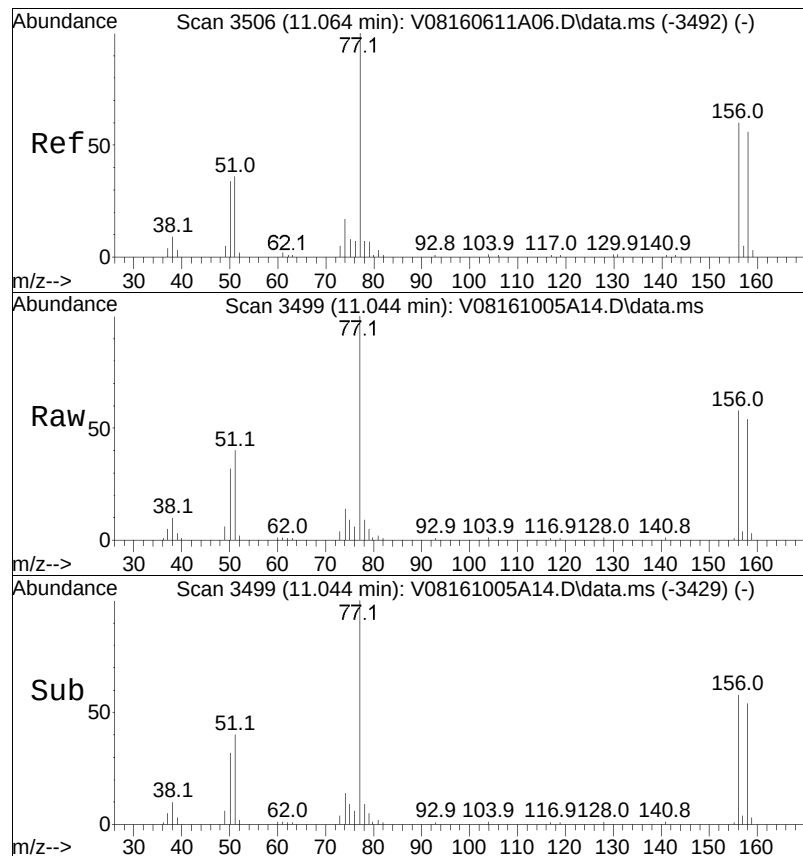




#82
 Isopropylbenzene
 Concen: 10.93 ug/L
 RT: 10.606 min Scan# 3342
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

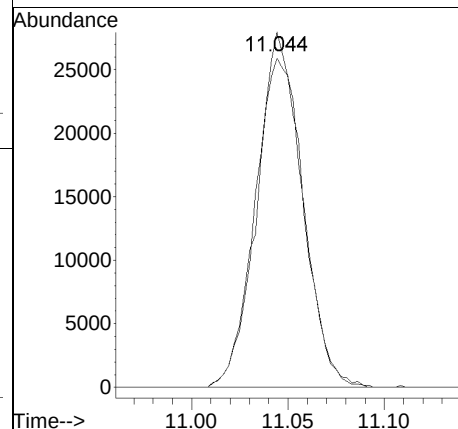
Tgt Ion:	105	Resp:	265461
Ion Ratio	Lower	Upper	
105	100		
120	26.2	6.7	46.7

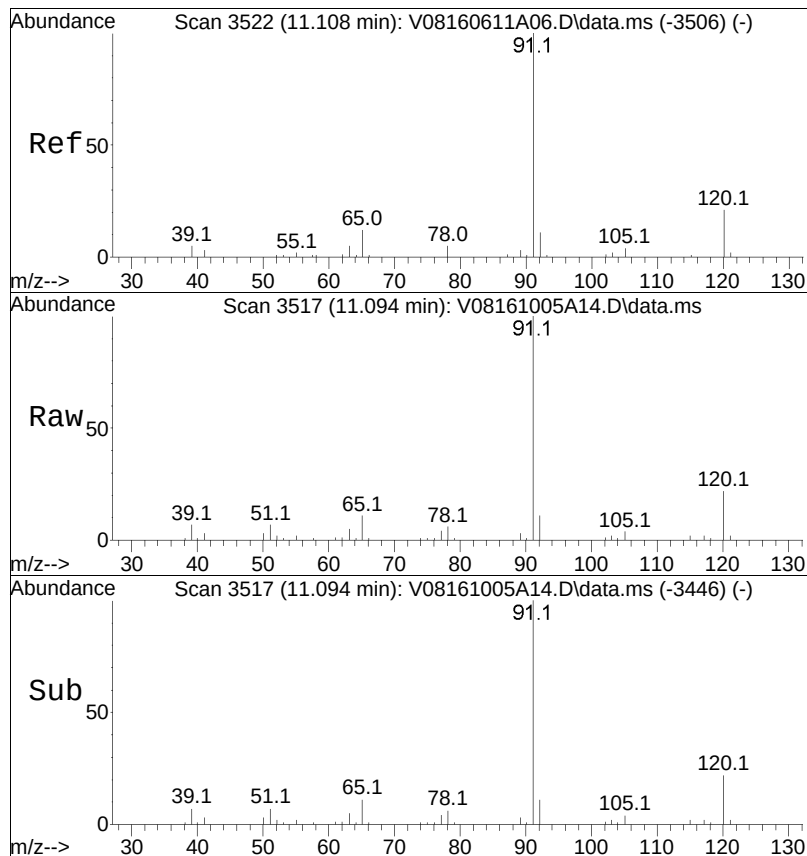




#84
 Bromobenzene
 Concen: 10.14 ug/L
 RT: 11.044 min Scan# 3499
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

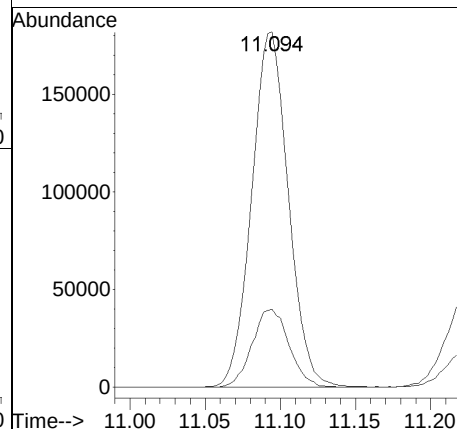
Tgt Ion	Ratio	Lower	Upper
156	100		
158	97.5	78.0	117.0

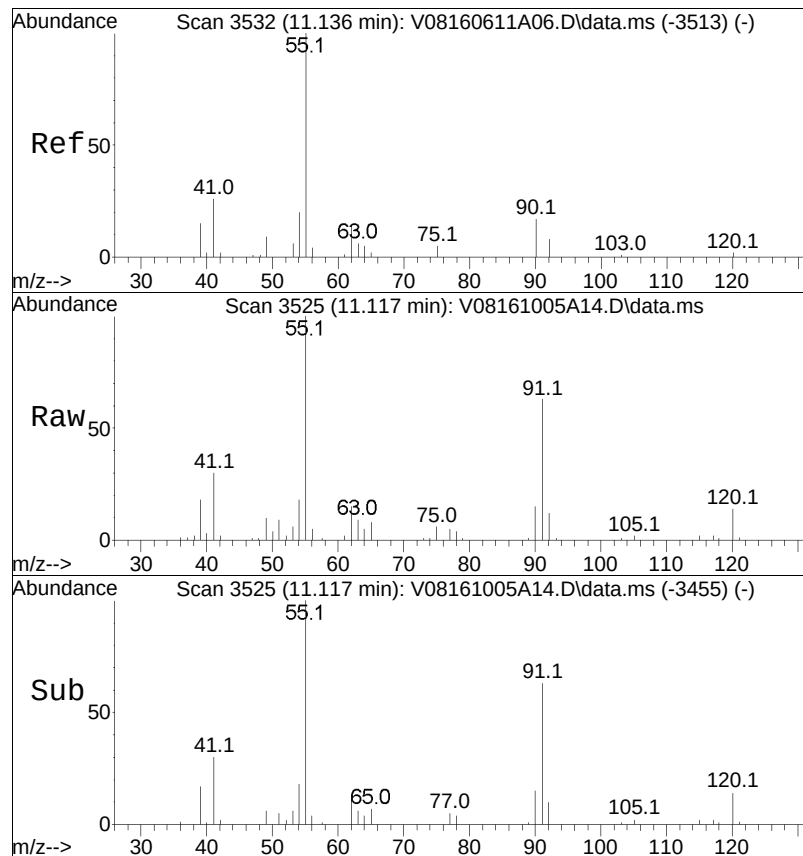




#85
 n-Propylbenzene
 Concen: 11.18 ug/L
 RT: 11.094 min Scan# 3517
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

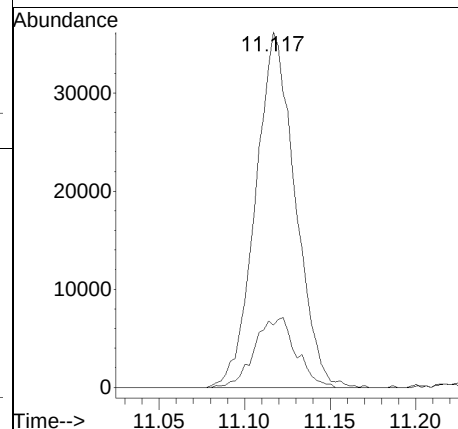
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.2	17.2	25.8

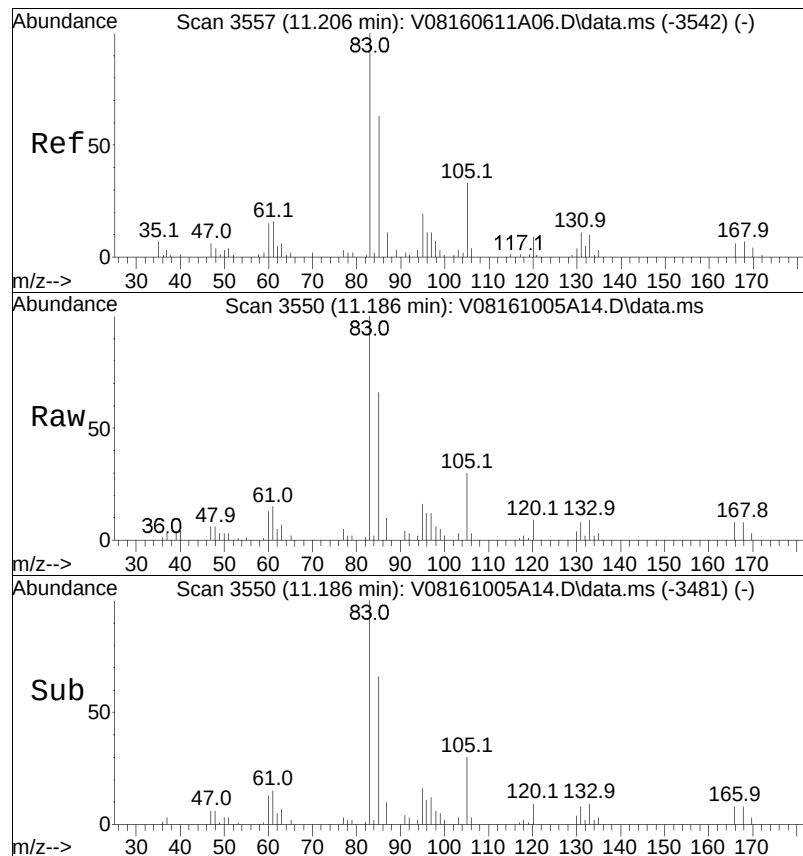




#86
 1,4-Dichlorobutane
 Concen: 10.92 ug/L
 RT: 11.117 min Scan# 3525
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

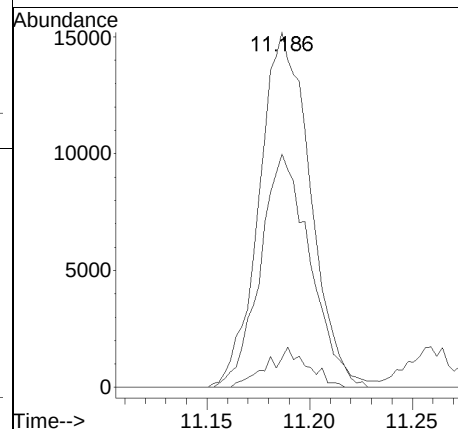
Tgt	Ion	Resp	Lower	Upper
55	100			
54	20.5	15.8	23.8	

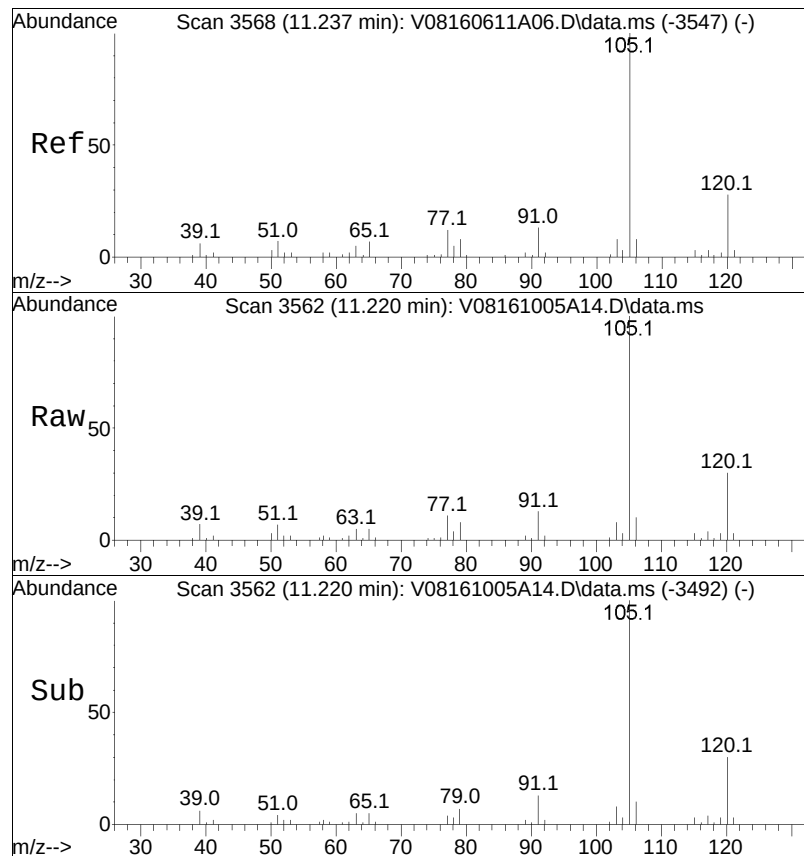




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.90 ug/L
 RT: 11.186 min Scan# 3550
 Delta R.T. -0.009 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

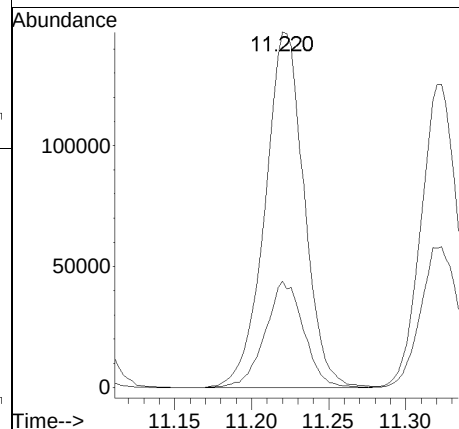
Tgt Ion:	83	Resp:	26192
Ion Ratio	Lower	Upper	
83	100		
131	9.1	0.0	28.9
85	65.3	47.6	87.6

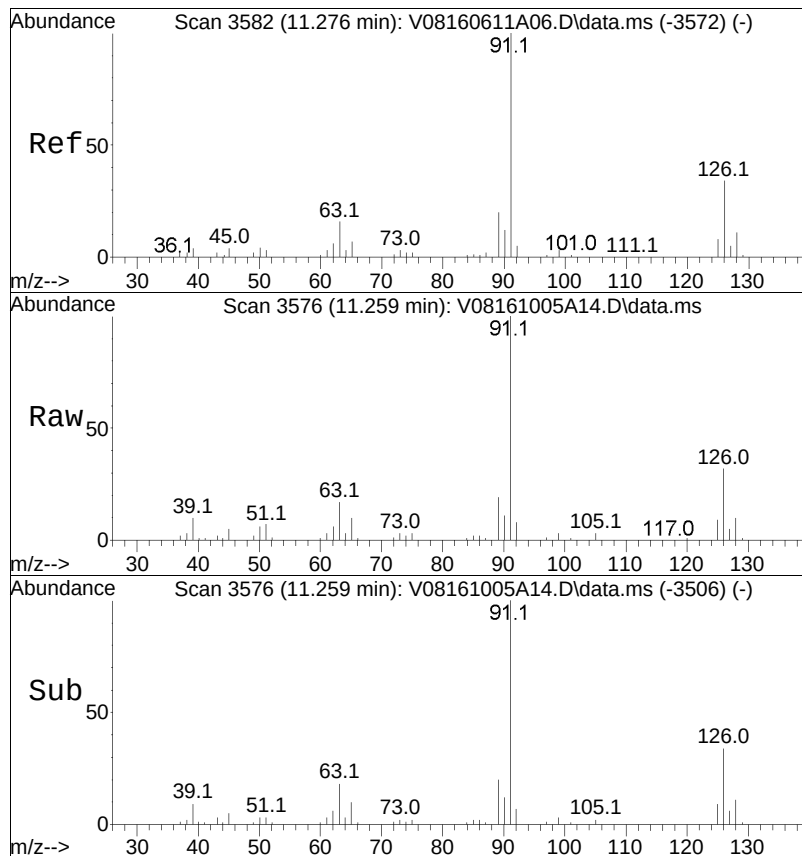




#88
 4-Ethyltoluene
 Concen: 11.33 ug/L
 RT: 11.220 min Scan# 3562
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

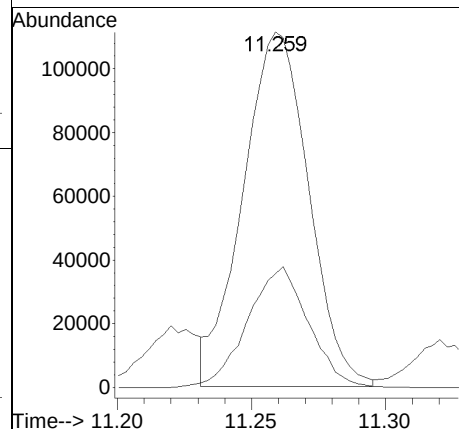
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	29.3	19.4	40.4	

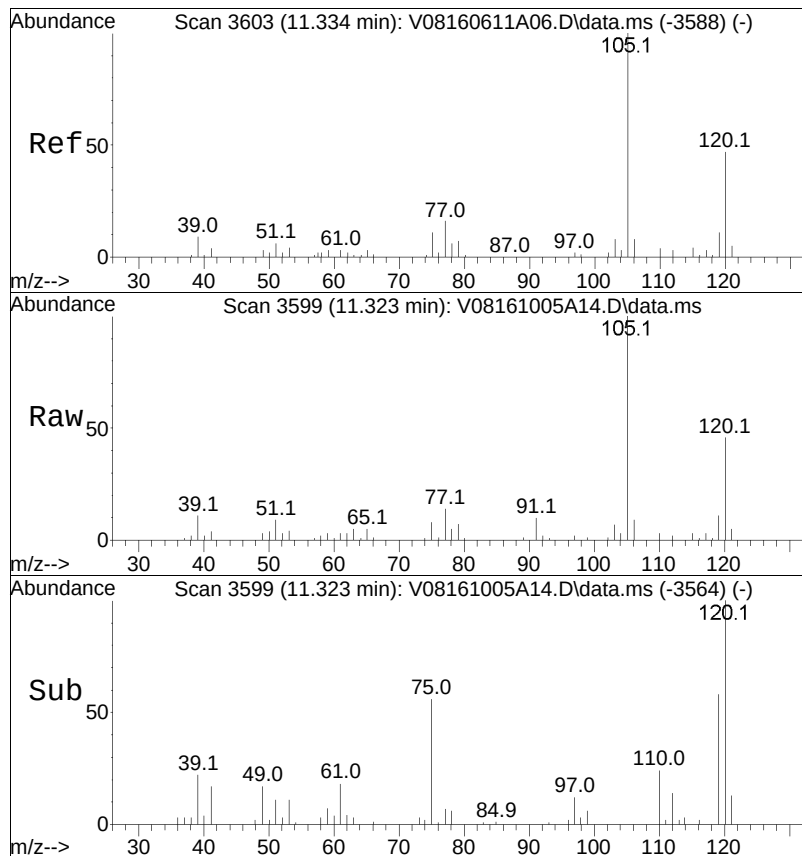




#89
 2-Chlorotoluene
 Concen: 11.49 ug/L
 RT: 11.259 min Scan# 3576
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

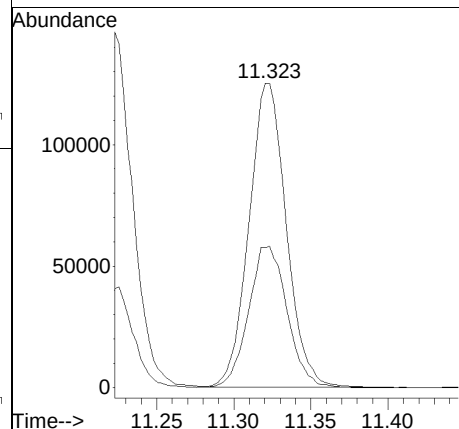
Tgt Ion: 91 Resp: 190260
 Ion Ratio Lower Upper
 91 100
 126 31.5 25.3 37.9

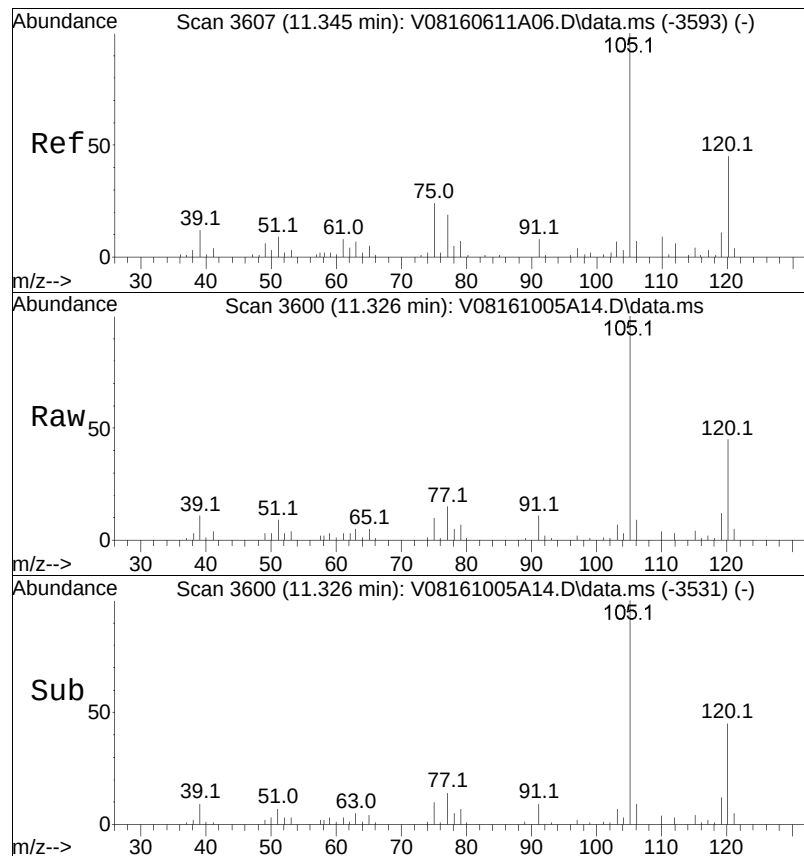




#90
 1,3,5-Trimethylbenzene
 Concen: 11.25 ug/L
 RT: 11.323 min Scan# 3599
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

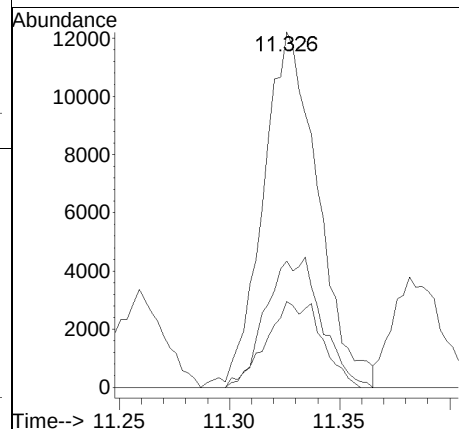
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	48.1	28.0	42.0	

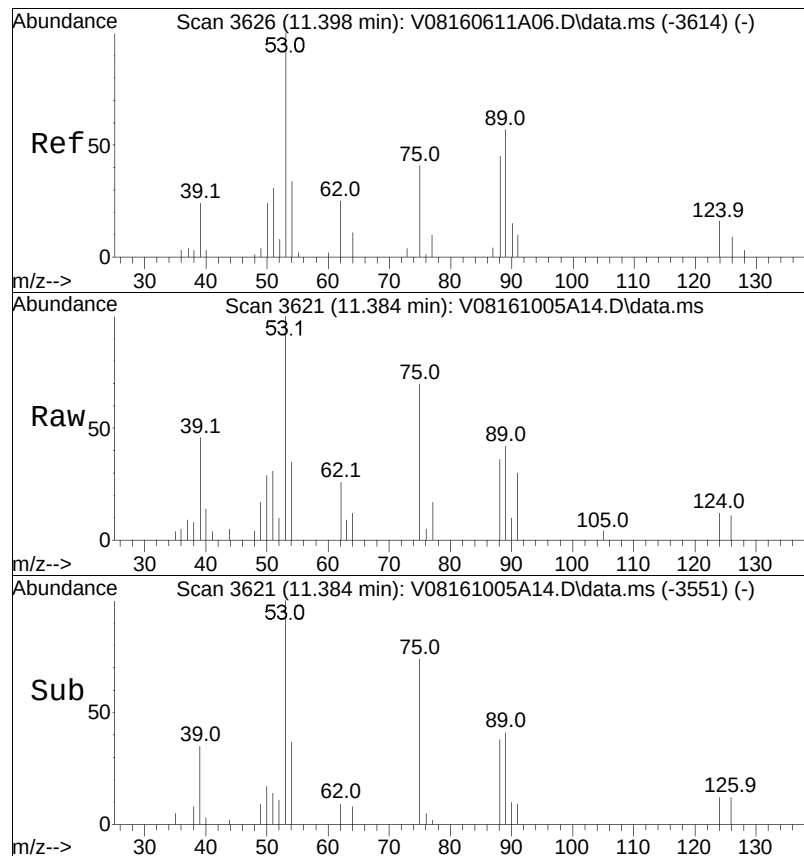




#91
 1,2,3-Trichloropropane
 Concen: 10.78 ug/L
 RT: 11.326 min Scan# 3600
 Delta R.T. -0.008 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

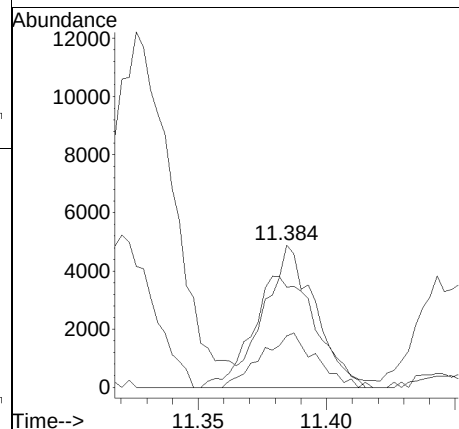
Tgt Ion:	75	Resp:	21223
Ion Ratio	Lower	Upper	
75	100		
110	36.6	23.5	48.7
112	24.2	15.2	31.6

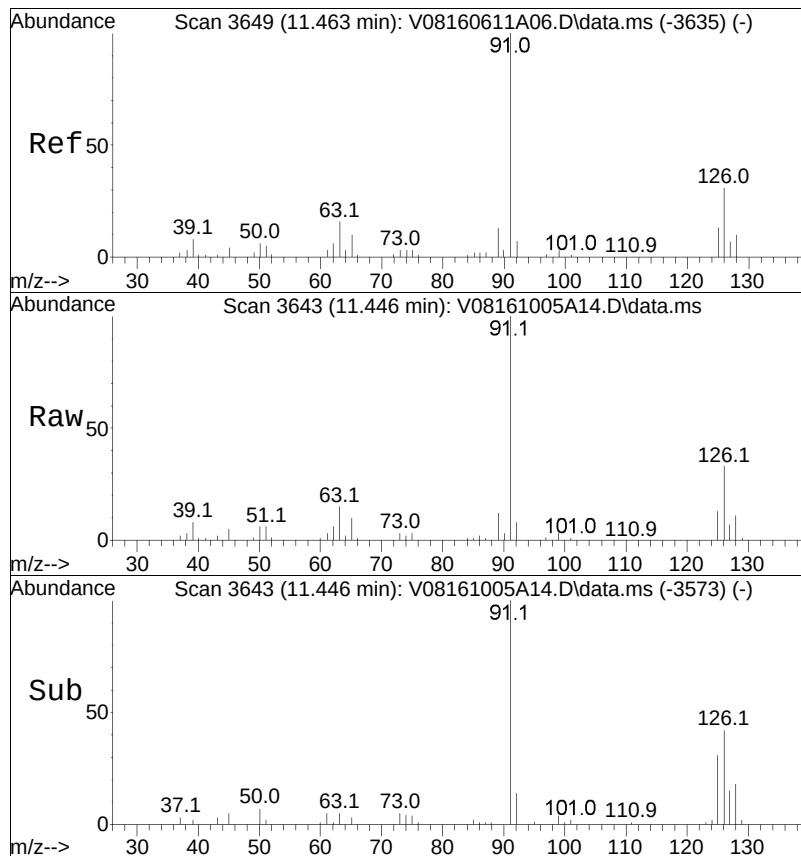




#92
 trans-1,4-Dichloro-2-butene
 Concen: 9.47 ug/L
 RT: 11.384 min Scan# 3621
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

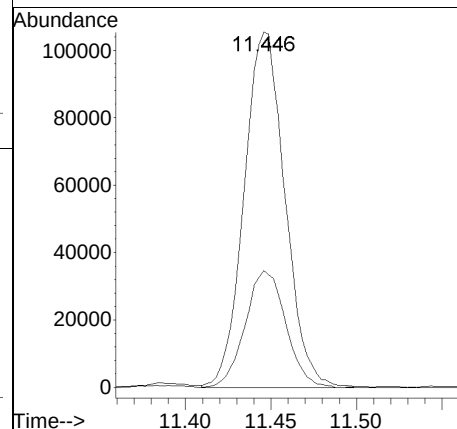
Tgt Ion	Ratio	Lower	Upper
53	100		
88	37.8	25.7	38.5
75	80.3	63.8	95.8

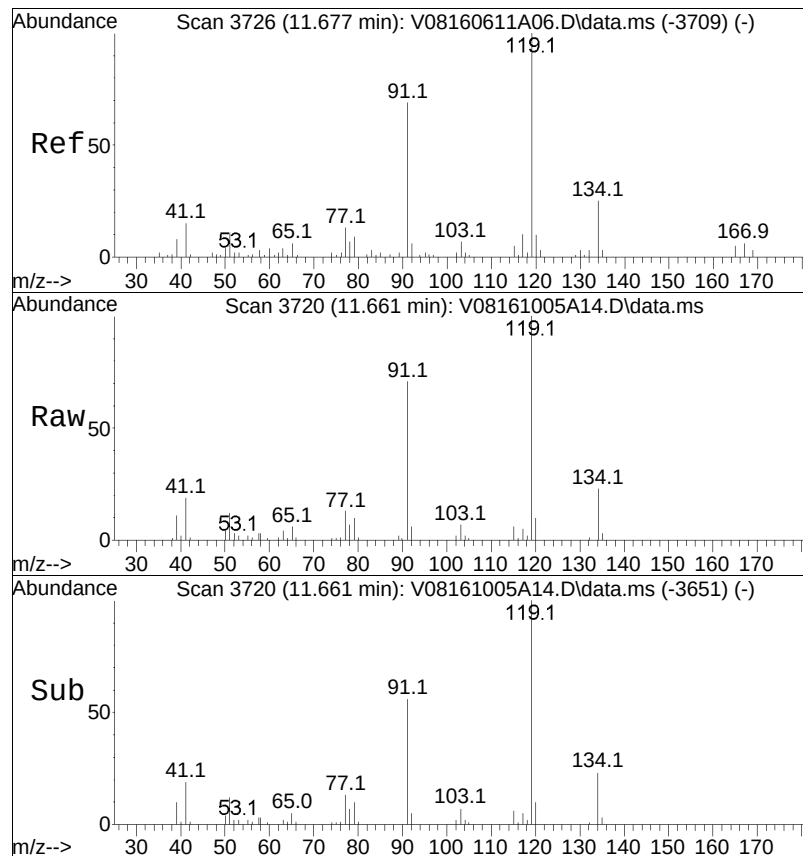




#93
 4-Chlorotoluene
 Concen: 11.11 ug/L
 RT: 11.446 min Scan# 3643
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

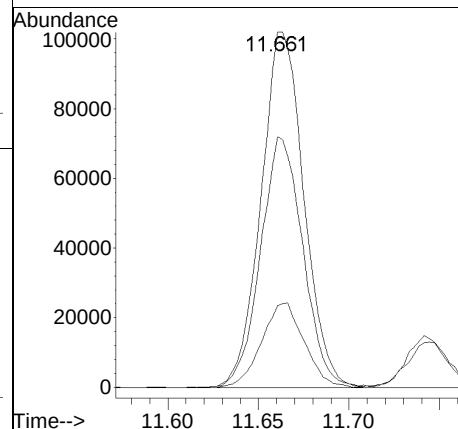
Tgt Ion: 91 Resp: 174922
 Ion Ratio Lower Upper
 91 100
 126 32.5 0.0 0.0#

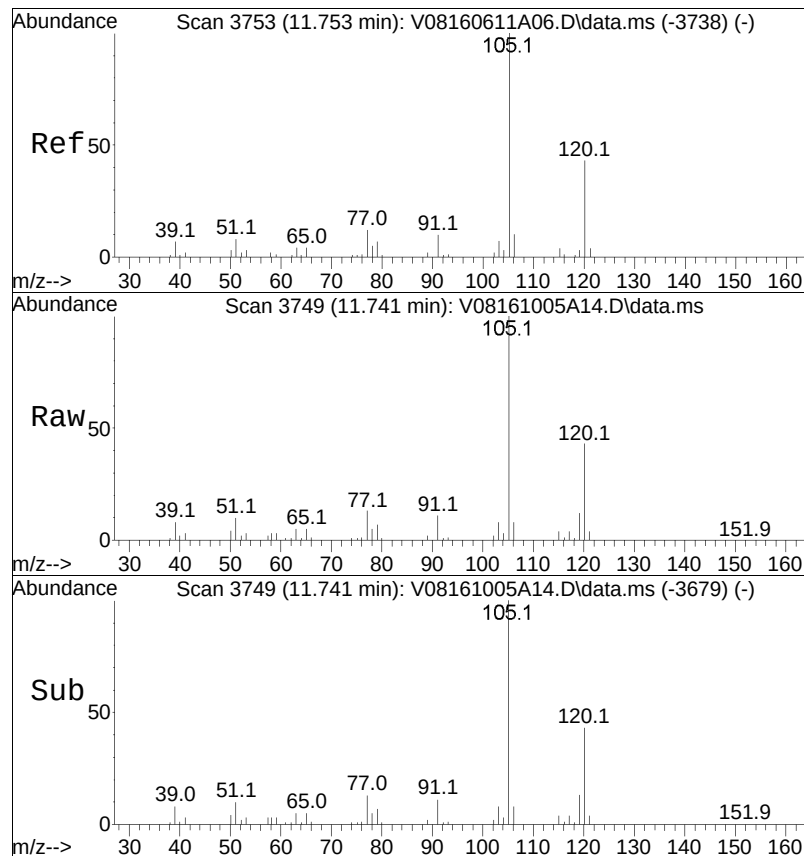




#94
 tert-Butylbenzene
 Concen: 9.28 ug/L
 RT: 11.661 min Scan# 3720
 Delta R.T. -0.008 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

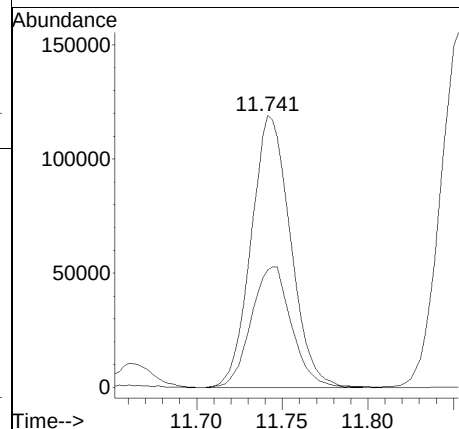
Tgt Ion:	119	Resp:	167916
Ion Ratio	Lower	Upper	
119	100		
91	69.5	47.2	70.8
134	23.5	18.2	27.4

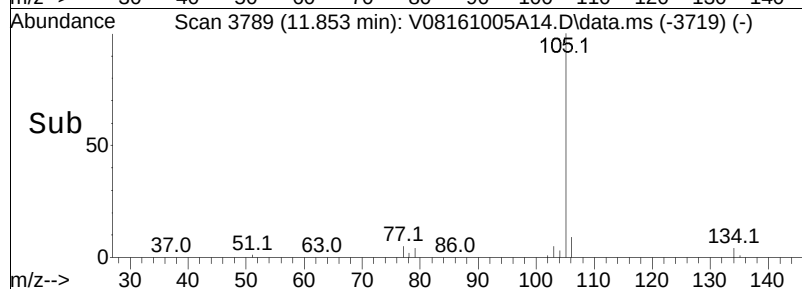
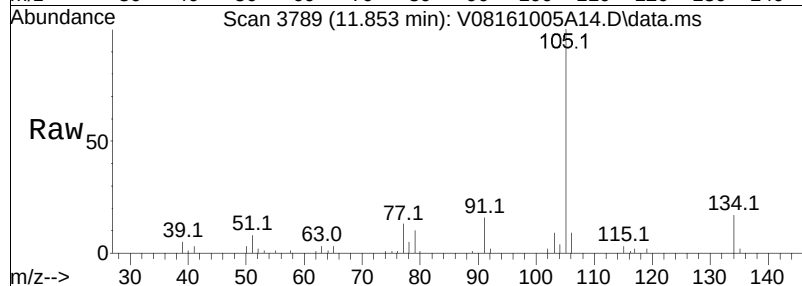
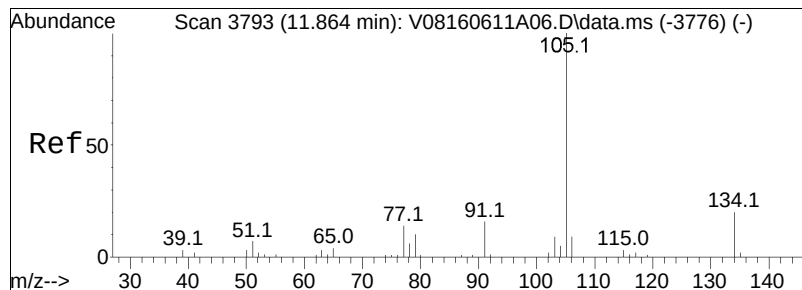




#97
 1,2,4-Trimethylbenzene
 Concen: 11.19 ug/L
 RT: 11.741 min Scan# 3749
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

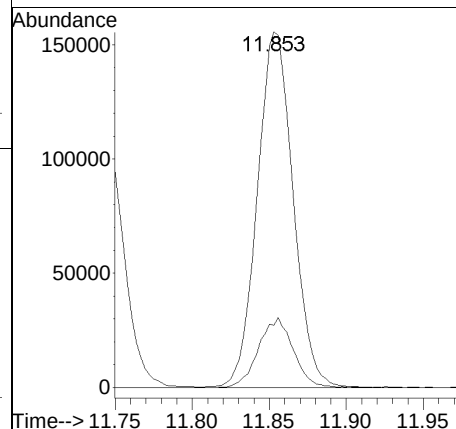
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	35.9	53.9

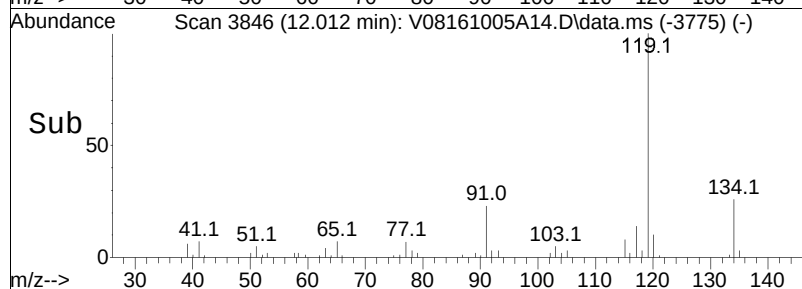
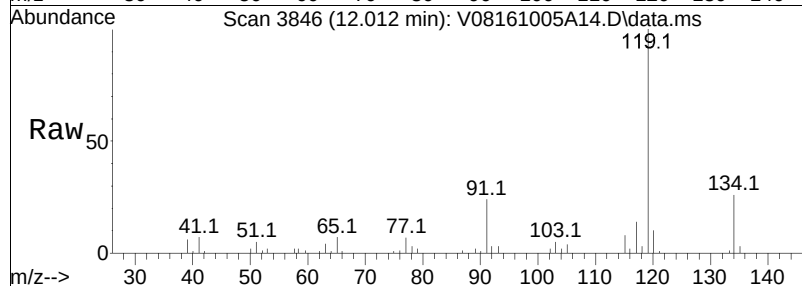
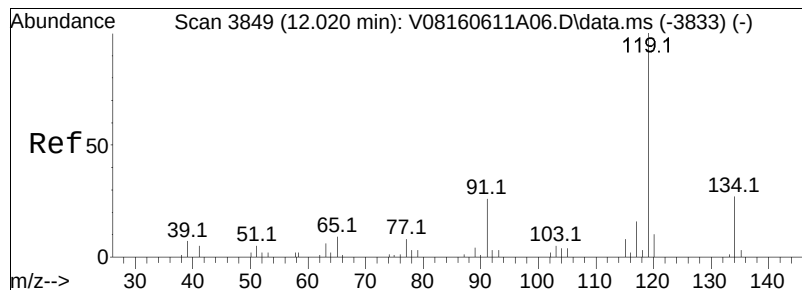




#98
 sec-Butylbenzene
 Concen: 10.86 ug/L
 RT: 11.853 min Scan# 3789
 Delta R.T. -0.005 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

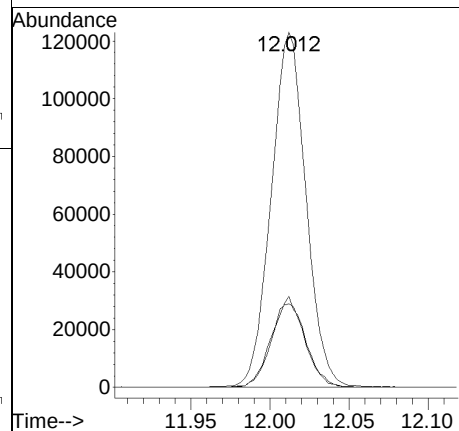
Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.8	12.5	26.1

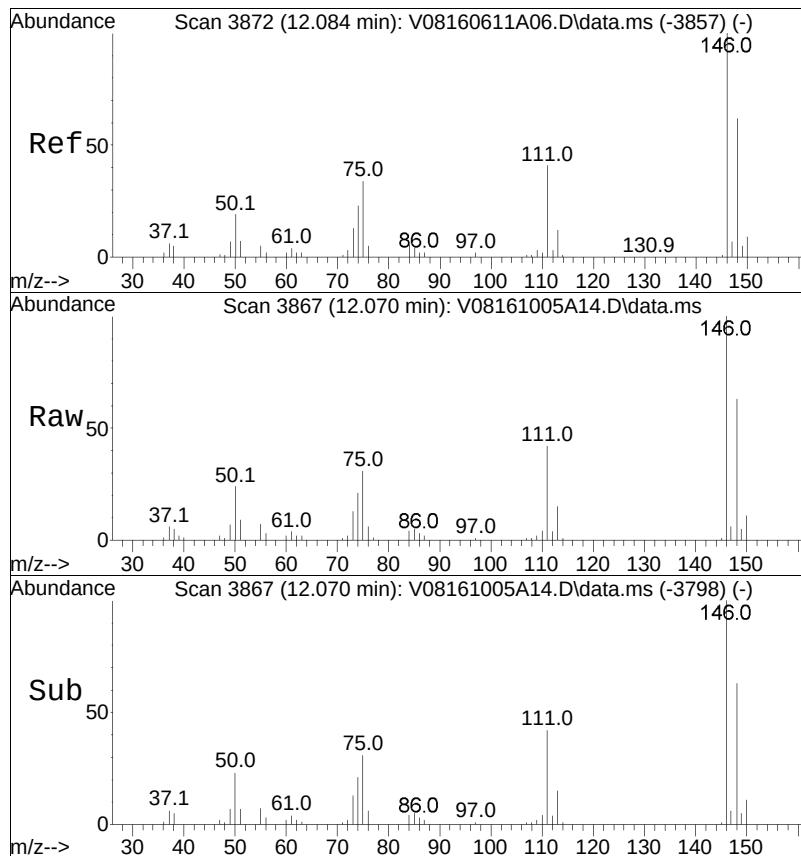




#99
 p-Isopropyltoluene
 Concen: 10.73 ug/L
 RT: 12.012 min Scan# 3846
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

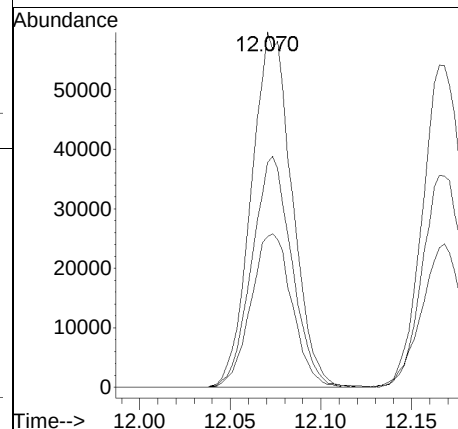
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.2	16.3	33.9
91	24.2	16.6	34.4

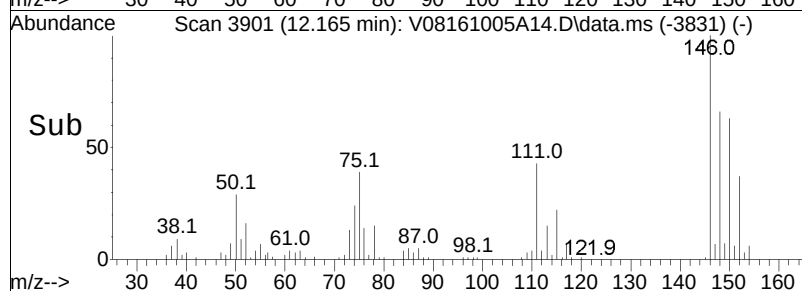
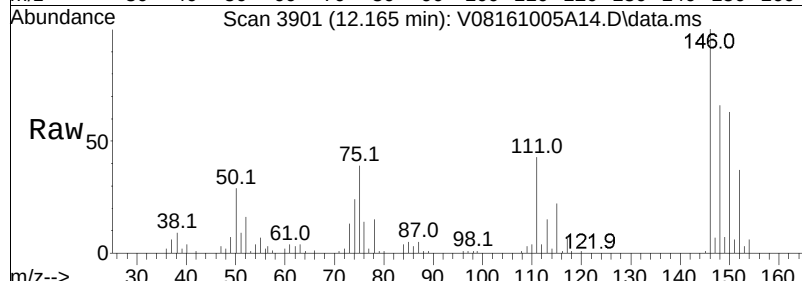
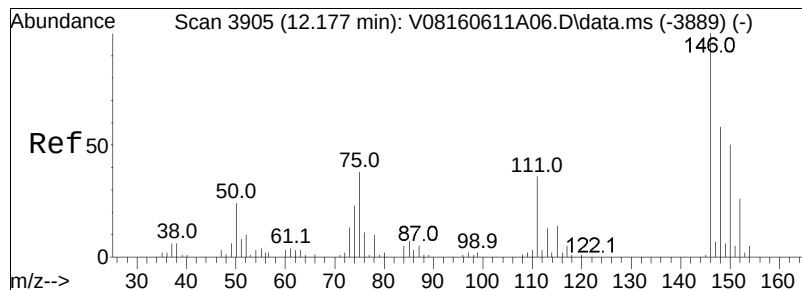




#100
 1,3-Dichlorobenzene
 Concen: 9.84 ug/L
 RT: 12.070 min Scan# 3867
 Delta R.T. -0.009 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

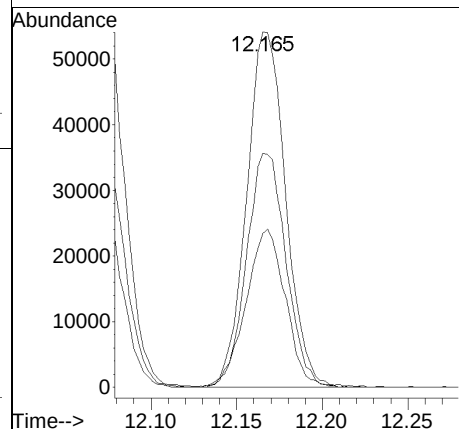
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	27.0	56.0
148	63.6	41.0	85.0

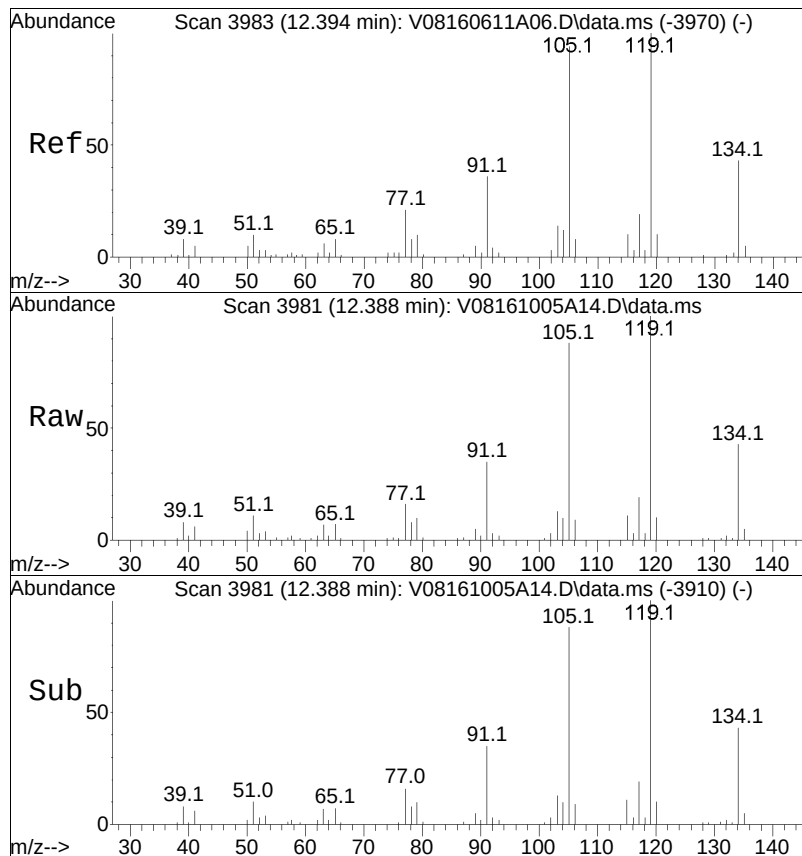




#101
 1,4-Dichlorobenzene
 Concen: 9.39 ug/L
 RT: 12.165 min Scan# 3901
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

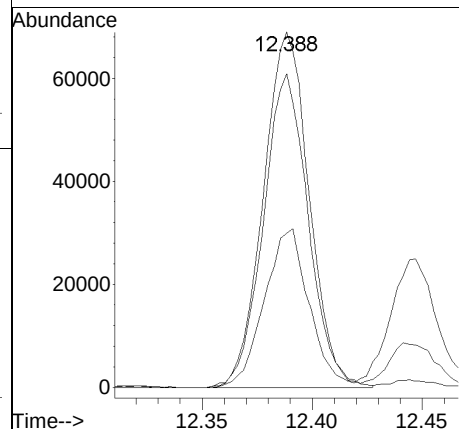
Tgt Ion:	146	Resp:	86060
Ion Ratio	Lower	Upper	
146	100		
111	44.8	32.7	49.1
148	66.6	49.6	74.4

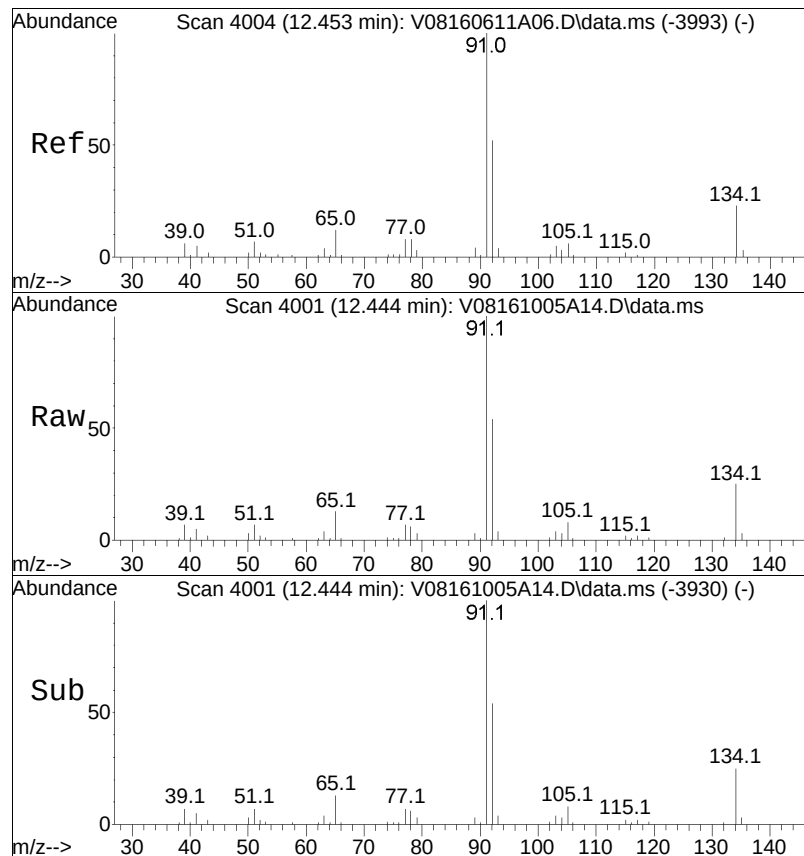




#102
 p-Diethylbenzene
 Concen: 9.20 ug/L
 RT: 12.388 min Scan# 3981
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

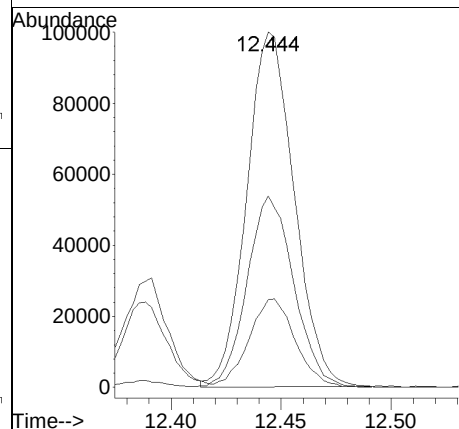
Tgt Ion	Ratio	Lower	Upper
119	100		
105	86.2	57.2	118.8
134	43.5	29.3	60.8

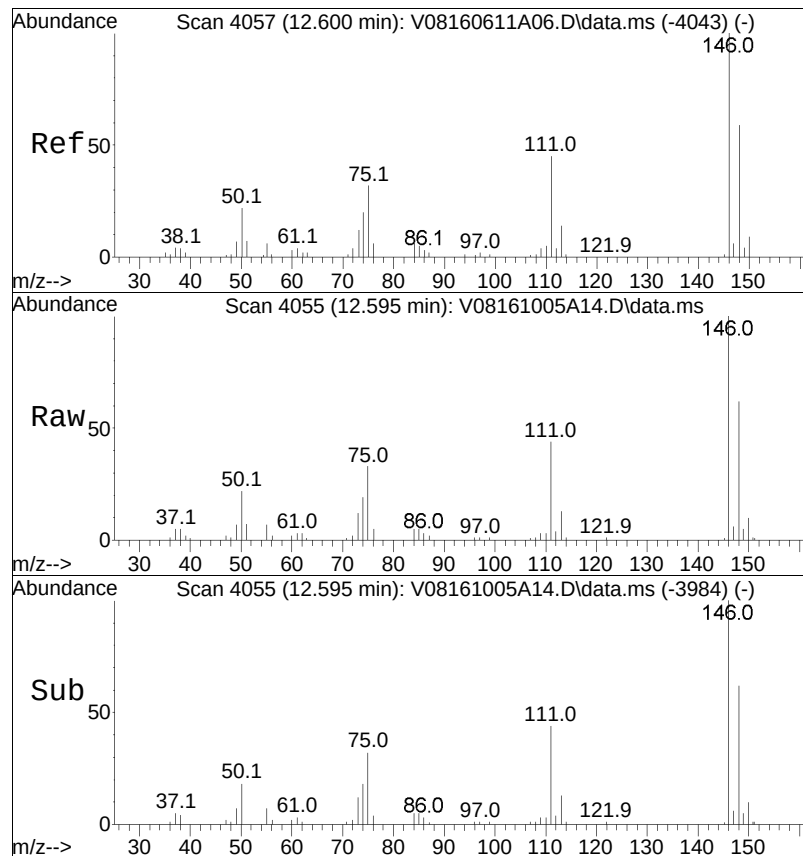




#103
 n-Butylbenzene
 Concen: 9.87 ug/L
 RT: 12.444 min Scan# 4001
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

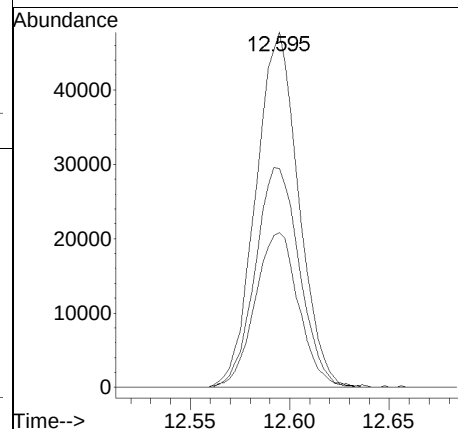
Tgt Ion:	91	Resp:	150034
Ion Ratio	Lower	Upper	
91	100		
92	53.3	43.4	65.2
134	24.5	19.8	29.6

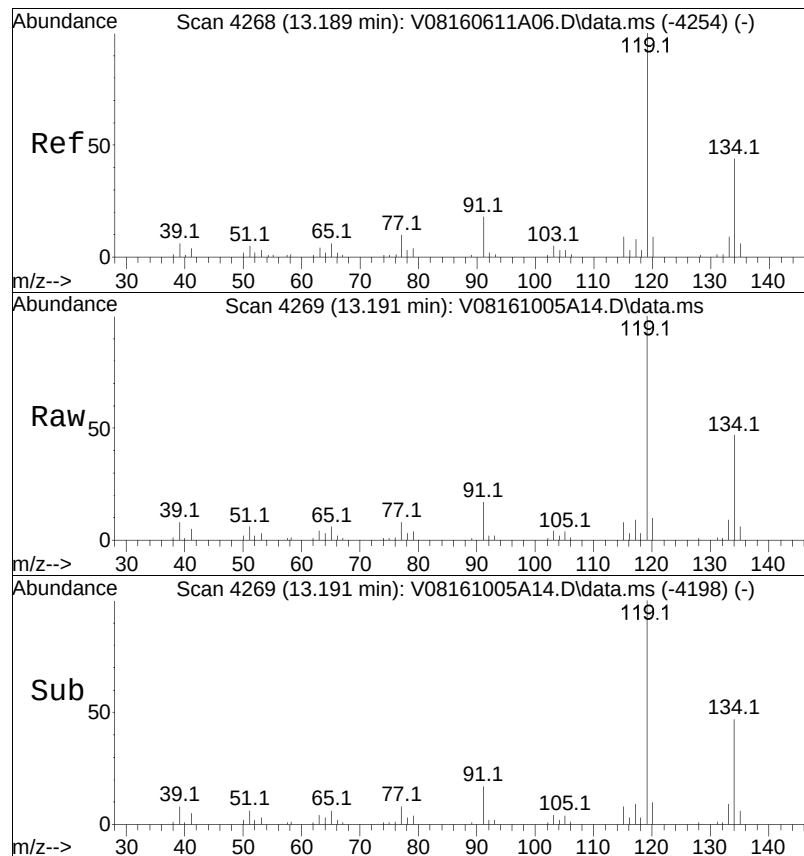




#104
 1,2-Dichlorobenzene
 Concen: 9.65 ug/L
 RT: 12.595 min Scan# 4055
 Delta R.T. -0.002 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

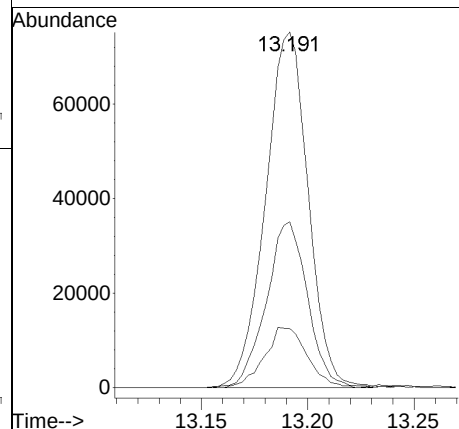
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	28.0	58.1
148	63.7	41.3	85.7

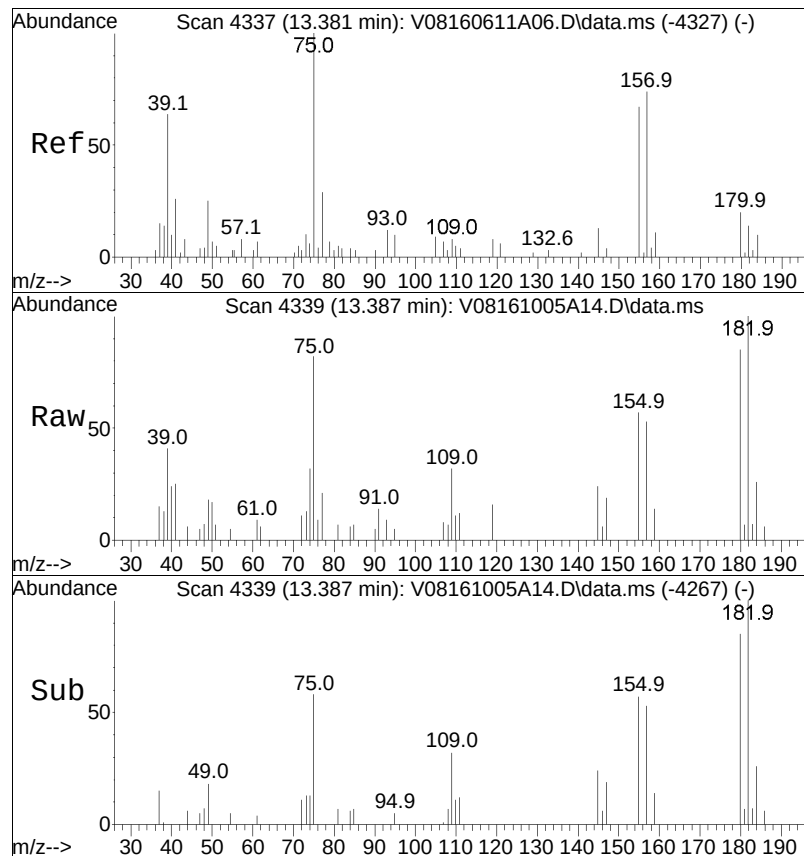




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 8.32 ug/L
 RT: 13.191 min Scan# 4269
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

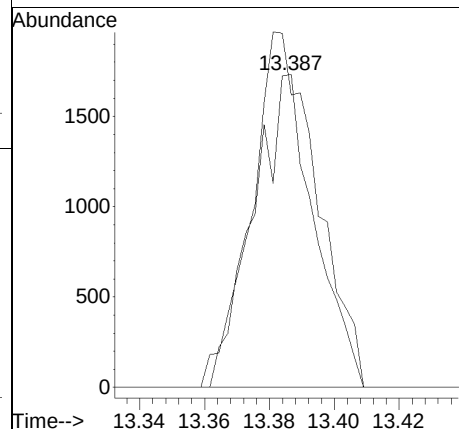
Tgt Ion	Ratio	Lower	Upper
119	100		
134	45.1	29.8	62.0
91	16.8	11.1	23.1

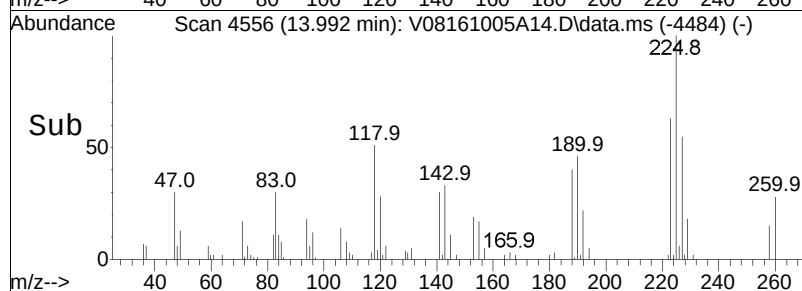
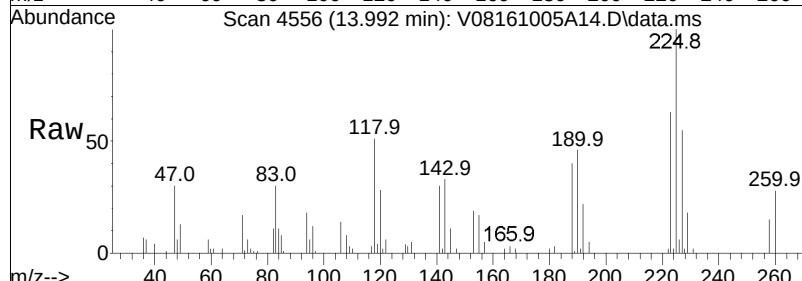
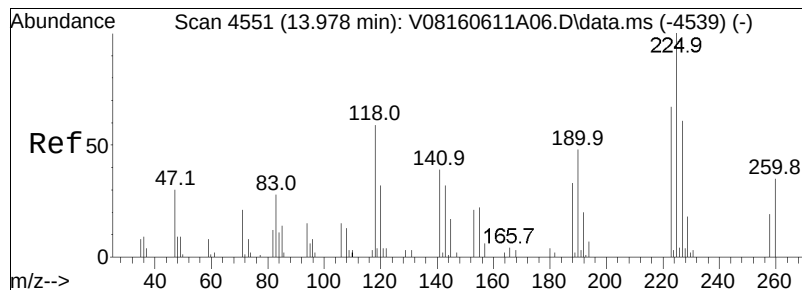




#106
 1,2-Dibromo-3-chloropropane
 Concen: 9.01 ug/L
 RT: 13.387 min Scan# 4339
 Delta R.T. -0.000 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

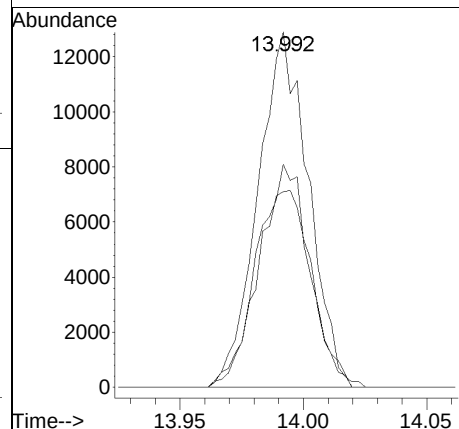
Tgt	Ion	Ratio	Lower	Upper
155	100			
157	120.7	100.8	151.2	

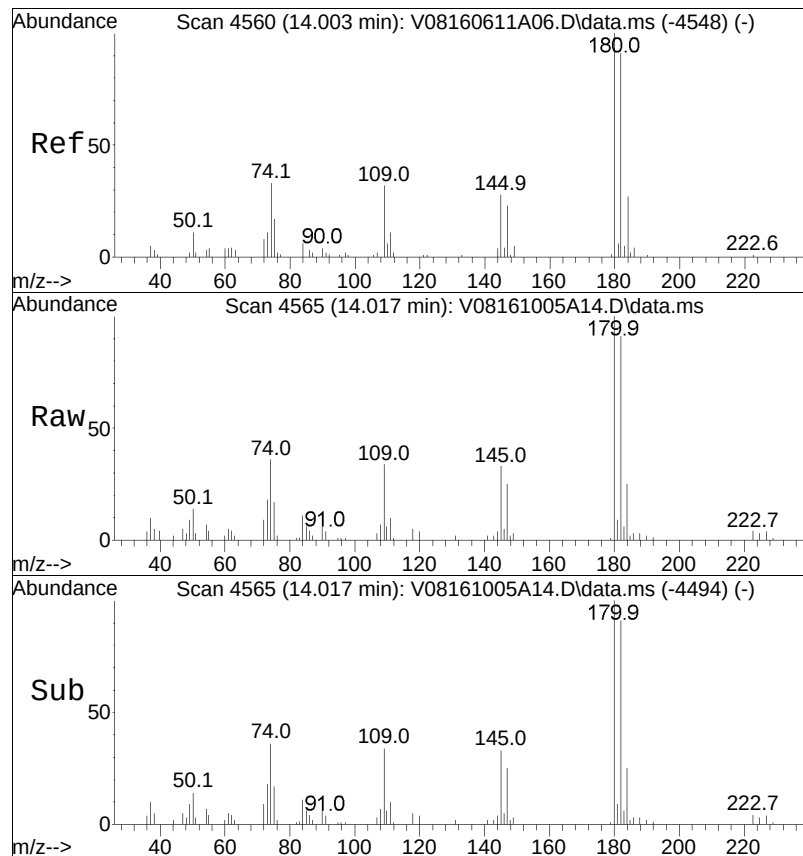




#108
 Hexachlorobutadiene
 Concen: 11.00 ug/L
 RT: 13.992 min Scan# 4556
 Delta R.T. -0.000 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

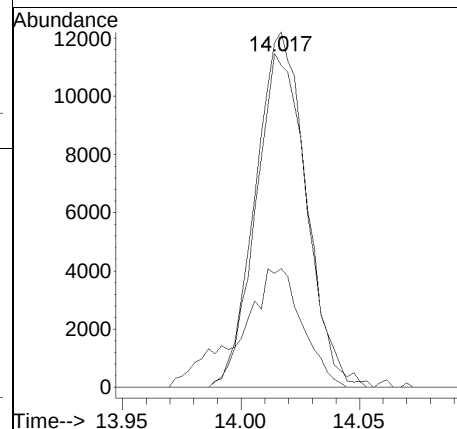
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	18398		
223	64.2		50.6	76.0
227	60.9		50.2	75.2

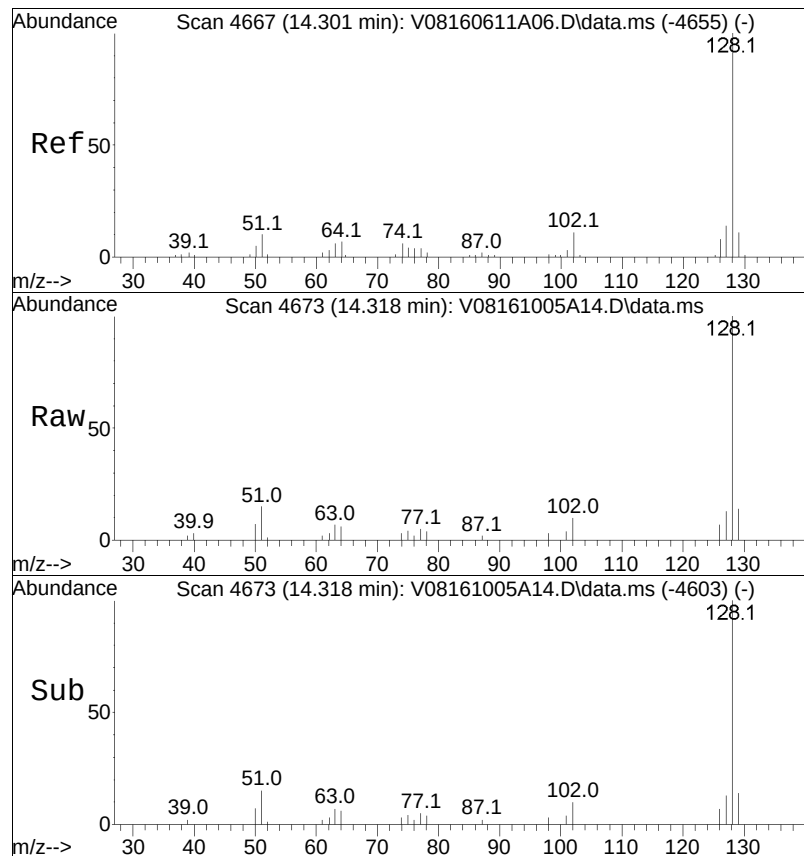




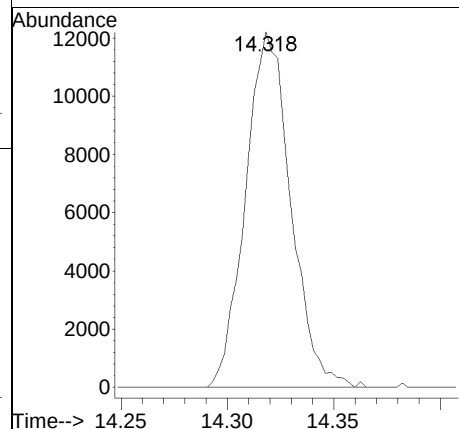
#109
 1,2,4-Trichlorobenzene
 Concen: 6.09 ug/L
 RT: 14.017 min Scan# 4565
 Delta R.T. -0.003 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

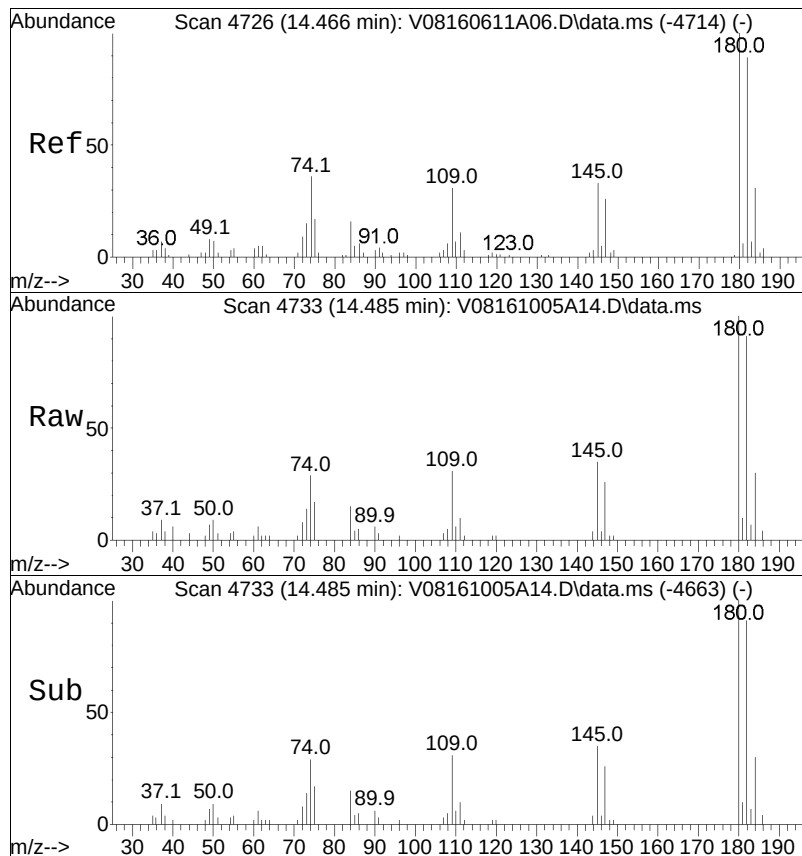
Tgt Ion:	180	Resp:	18097
Ion Ratio	Lower	Upper	
180	100		
182	94.7	79.3	118.9
145	42.0	26.2	39.4#





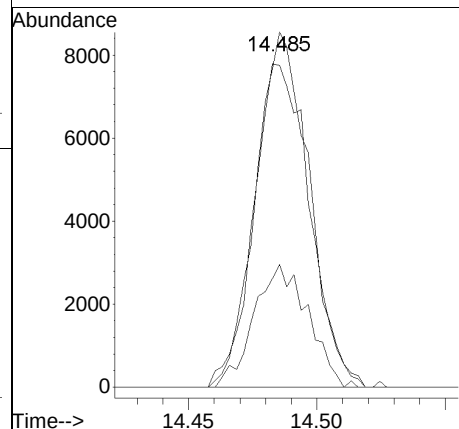
#110
Naphthalene
Concen: 4.88 ug/L
RT: 14.318 min Scan# 4673
Delta R.T. -0.006 min
Lab File: V08161005A14.D
Acq: 5 Oct 2016 3:31 pm
Tgt Ion:128 Resp: 18099





#111
 1,2,3-Trichlorobenzene
 Concen: 5.99 ug/L
 RT: 14.485 min Scan# 4733
 Delta R.T. -0.006 min
 Lab File: V08161005A14.D
 Acq: 5 Oct 2016 3:31 pm

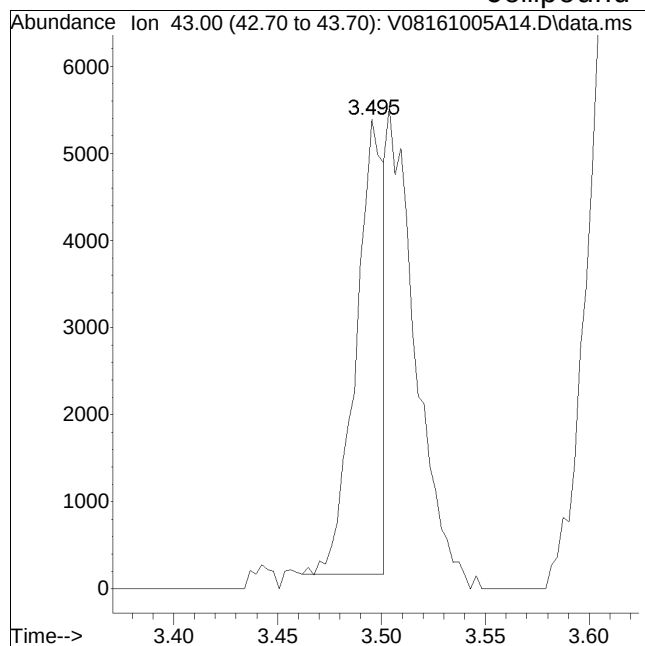
Tgt Ion:	180	Resp:	12347
Ion Ratio	Lower	Upper	
180	100		
182	95.4	77.9	116.9
145	35.1	29.8	44.8



Manual Integration Report

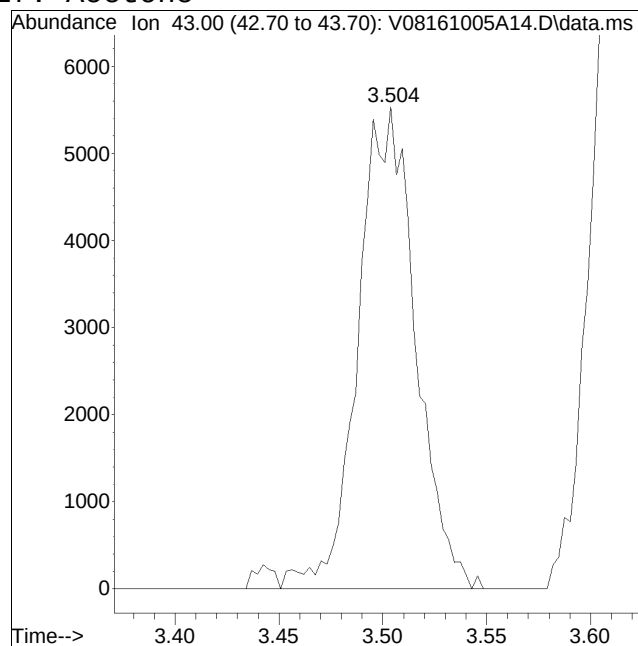
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A14.D Operator : VOA108:PK
Date Inj'd : 10/5/2016 3:31 pm Instrument : VOA 108
Sample : WG939161-6,31,10,10,,c1 Quant Date : 10/5/2016 6:22 pm

Compound #17: Acetone



Original Peak Response = 4858

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

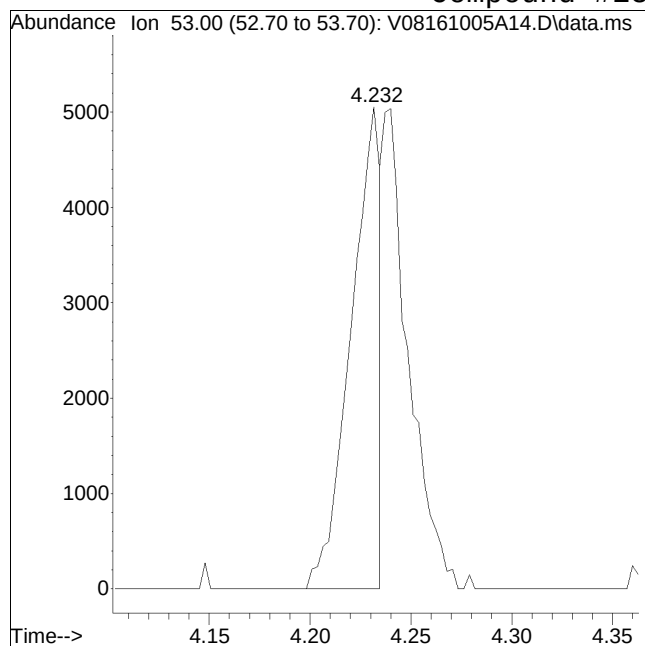


Manual Peak Response = 10858 M1

Manual Integration Report

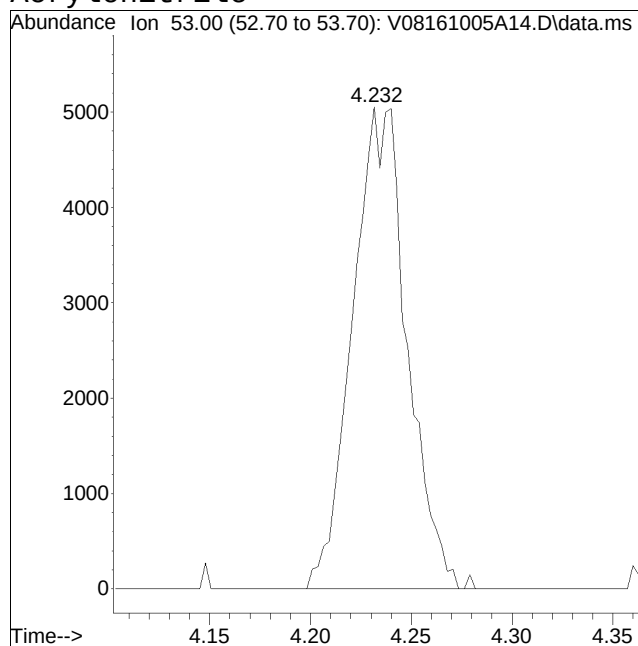
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A14.D Operator : VOA108:PK
Date Inj'd : 10/5/2016 3:31 pm Instrument : VOA 108
Sample : WG939161-6,31,10,10,,c1 Quant Date : 10/5/2016 6:22 pm

Compound #25: Acrylonitrile



Original Peak Response = 5066

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

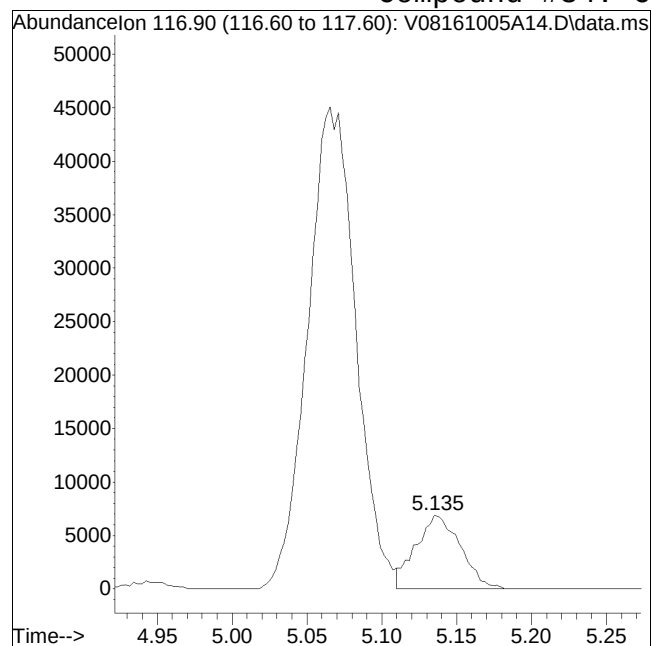


Manual Peak Response = 9528 M1

Manual Integration Report

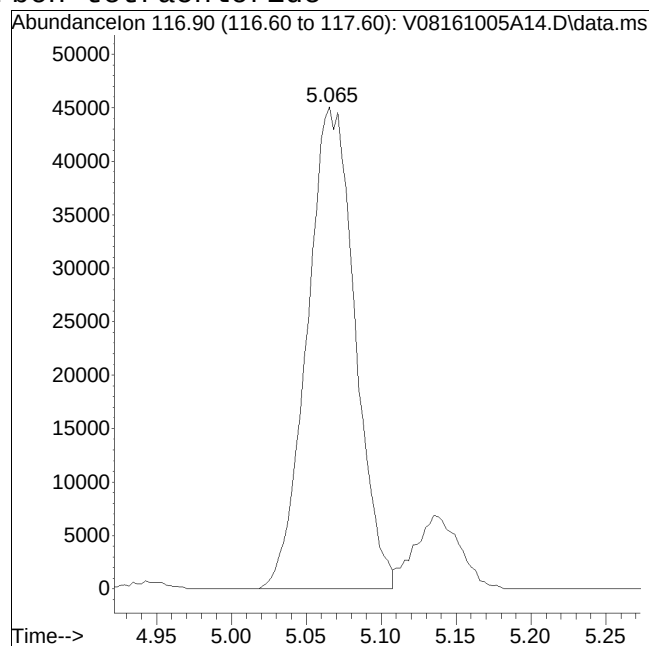
Data Path : I:\VOLATILES\VOA108\2016\10Method : V108_1600808_8260.m
Data File : V08161005A14.D Operator : VOA108:PK
Date Inj'd : 10/5/2016 3:31 pm Instrument : VOA 108
Sample : WG939161-6,31,10,10,,c1 Quant Date : 10/5/2016 6:22 pm

Compound #34: Carbon tetrachloride



Original Peak Response = 14182

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 100070 M2

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A15.D
 Acq On : 5 Oct 2016 3:59 pm
 Operator : VOA108:PK
 Sample : WG939161-7,31,10,10,,c2
 Misc : WG939161,ICAL12737
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 05 18:22:11 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

Internal Standards						
1) Fluorobenzene	5.919	96	247586	10.000	ug/L	0.00
Standard Area 1 = 258468			Recovery =	95.79%		
59) Chlorobenzene-d5	9.427	117	165035	10.000	ug/L	0.00
Standard Area 1 = 169443			Recovery =	97.40%		
79) 1,4-Dichlorobenzene-d4	12.151	152	71164	10.000	ug/L	0.00
Standard Area 1 = 72223			Recovery =	98.53%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.118	113	56799	9.359	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.59%		
43) 1,2-Dichloroethane-d4	5.643	65	50498	8.737	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.37%		
60) Toluene-d8	7.592	98	223960	10.072	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.72%		
83) 4-Bromofluorobenzene	10.938	95	70965	10.206	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.06%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.616	85	77450	12.703	ug/L	99
3) Chloromethane	1.794	50	149225	16.715	ug/L	93
4) Vinyl chloride	1.872	62	111716	13.333	ug/L #	45
5) Bromomethane	2.179	94	6782	3.151	ug/L	100
6) Chloroethane	2.299	64	63208	13.828	ug/L	99
7) Trichlorofluoromethane	2.430	101	120321	13.619	ug/L	100
8) Ethyl ether	2.723	74	21764	11.329	ug/L	95
10) 1,1-Dichloroethene	2.907	96	66050	13.475	ug/L	93
11) Carbon disulfide	2.932	76	229761	13.849	ug/L	99
15) Methylene chloride	3.451	84	67022	12.935	ug/L	94
17) Acetone	3.501	43	13098	15.926	ug/L	97
18) trans-1,2-Dichloroethene	3.596	96	81800	13.695	ug/L	95
20) Methyl tert-butyl ether	3.693	73	92696	12.100	ug/L #	90
23) 1,1-Dichloroethane	4.176	63	161712	12.829	ug/L	98
25) Acrylonitrile	4.234	53	11247	10.901	ug/L #	82
27) Vinyl acetate	4.410	43	97324	12.694	ug/L #	93
28) cis-1,2-Dichloroethene	4.681	96	77511	12.873	ug/L	95
29) 2,2-Dichloropropane	4.781	77	84562	11.291	ug/L	98
30) Bromochloromethane	4.876	128	26395	11.894	ug/L	87
32) Chloroform	4.943	83	132510	13.137	ug/L	99
34) Carbon tetrachloride	5.065	117	118588	13.420	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A15.D
 Acq On : 5 Oct 2016 3:59 pm
 Operator : VOA108:PK
 Sample : WG939161-7,31,10,10,,c2
 Misc : WG939161,ICAL12737
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 05 18:22:11 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37)	1,1,1-Trichloroethane	5.135	97	136820	14.211	ug/L	#	96
39)	2-Butanone	5.247	43	11725	11.978	ug/L	#	68
40)	1,1-Dichloropropene	5.255	75	105761	13.052	ug/L		99
41)	Benzene	5.503	78	305098	12.875	ug/L		98
44)	1,2-Dichloroethane	5.710	62	72494	11.884	ug/L		98
48)	Trichloroethene	6.081	95	84338	13.217	ug/L		98
50)	Dibromomethane	6.530	93	25087	12.082	ug/L		97
51)	1,2-Dichloropropane	6.635	63	73124	12.015	ug/L		97
54)	Bromodichloromethane	6.702	83	80987	12.573	ug/L	#	98
57)	1,4-Dioxane	6.917	88	10163	516.494	ug/L	#	92
58)	cis-1,3-Dichloropropene	7.391	75	69616	10.017	ug/L		98
61)	Toluene	7.648	92	189487	13.362	ug/L		98
62)	4-Methyl-2-pentanone	8.097	58	7508	8.695	ug/L		85
63)	Tetrachloroethene	8.086	166	74575	12.577	ug/L		98
65)	trans-1,3-Dichloropropene	8.139	75	51940	10.920	ug/L		98
67)	Ethyl methacrylate	8.325	69	29914	9.221	ug/L		88
68)	1,1,2-Trichloroethane	8.325	83	27902	12.423	ug/L		97
69)	Chlorodibromomethane	8.526	129	43464	12.527	ug/L		99
70)	1,3-Dichloropropane	8.649	76	58813	12.124	ug/L		100
71)	1,2-Dibromoethane	8.805	107	29151	11.883	ug/L		95
72)	2-Hexanone	9.098	43	11350	8.434	ug/L	#	91
73)	Chlorobenzene	9.449	112	179544	12.201	ug/L		99
74)	Ethylbenzene	9.485	91	348421	13.228	ug/L		98
75)	1,1,1,2-Tetrachloroethane	9.533	131	58472	12.298	ug/L		97
76)	p/m Xylene	9.678	106	269335	25.912	ug/L		94
77)	o Xylene	10.219	106	236926	25.342	ug/L		98
78)	Styrene	10.289	104	372729	25.595	ug/L		97
80)	Bromoform	10.308	173	18653	12.313	ug/L		95
82)	Isopropylbenzene	10.607	105	325133	13.126	ug/L		99
84)	Bromobenzene	11.044	156	57075	12.281	ug/L		97
85)	n-Propylbenzene	11.095	91	376935	13.383	ug/L		98
86)	1,4-Dichlorobutane	11.117	55	70468	12.912	ug/L		98
87)	1,1,2,2-Tetrachloroethane	11.189	83	31217	12.737	ug/L		97
88)	4-Ethyltoluene	11.223	105	318346	13.630	ug/L		98
89)	2-Chlorotoluene	11.259	91	231084	13.683	ug/L		100
90)	1,3,5-Trimethylbenzene	11.323	105	255051	13.392	ug/L	#	76
91)	1,2,3-Trichloropropane	11.329	75	23933	11.923	ug/L		95
92)	trans-1,4-Dichloro-2-b...	11.387	53	9240	11.515	ug/L		96
93)	4-Chlorotoluene	11.446	91	217040	13.519	ug/L	#	100
94)	tert-Butylbenzene	11.663	119	208868	11.322	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2016\161005A\
 Data File : V08161005A15.D
 Acq On : 5 Oct 2016 3:59 pm
 Operator : VOA108:PK
 Sample : WG939161-7,31,10,10,,c2
 Misc : WG939161,ICAL12737
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 05 18:22:11 2016
 Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Aug 09 13:29:40 2016
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2016\161005A\V08161005A02.D
 Sub List : 8260-NYTCL - Megamix plus Diox

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

97)	1,2,4-Trimethylbenzene	11.741	105	232571	13.416	ug/L	99
98)	sec-Butylbenzene	11.853	105	304983	12.913	ug/L	99
99)	p-Isopropyltoluene	12.012	119	228814	12.780	ug/L	98
100)	1,3-Dichlorobenzene	12.073	146	114766	11.852	ug/L	99
101)	1,4-Dichlorobenzene	12.165	146	107069	11.455	ug/L	98
102)	p-Diethylbenzene	12.388	119	125298	11.219	ug/L	97
103)	n-Butylbenzene	12.447	91	182145	11.683	ug/L	100
104)	1,2-Dichlorobenzene	12.595	146	87499	11.542	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.189	119	142166	10.938	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.384	155	2785	10.722	ug/L	100
108)	Hexachlorobutadiene	13.989	225	23326	13.676	ug/L	96
109)	1,2,4-Trichlorobenzene	14.017	180	25332	8.126	ug/L #	92
110)	Naphthalene	14.318	128	28676	7.164	ug/L	100
111)	1,2,3-Trichlorobenzene	14.486	180	17905	8.252	ug/L	99

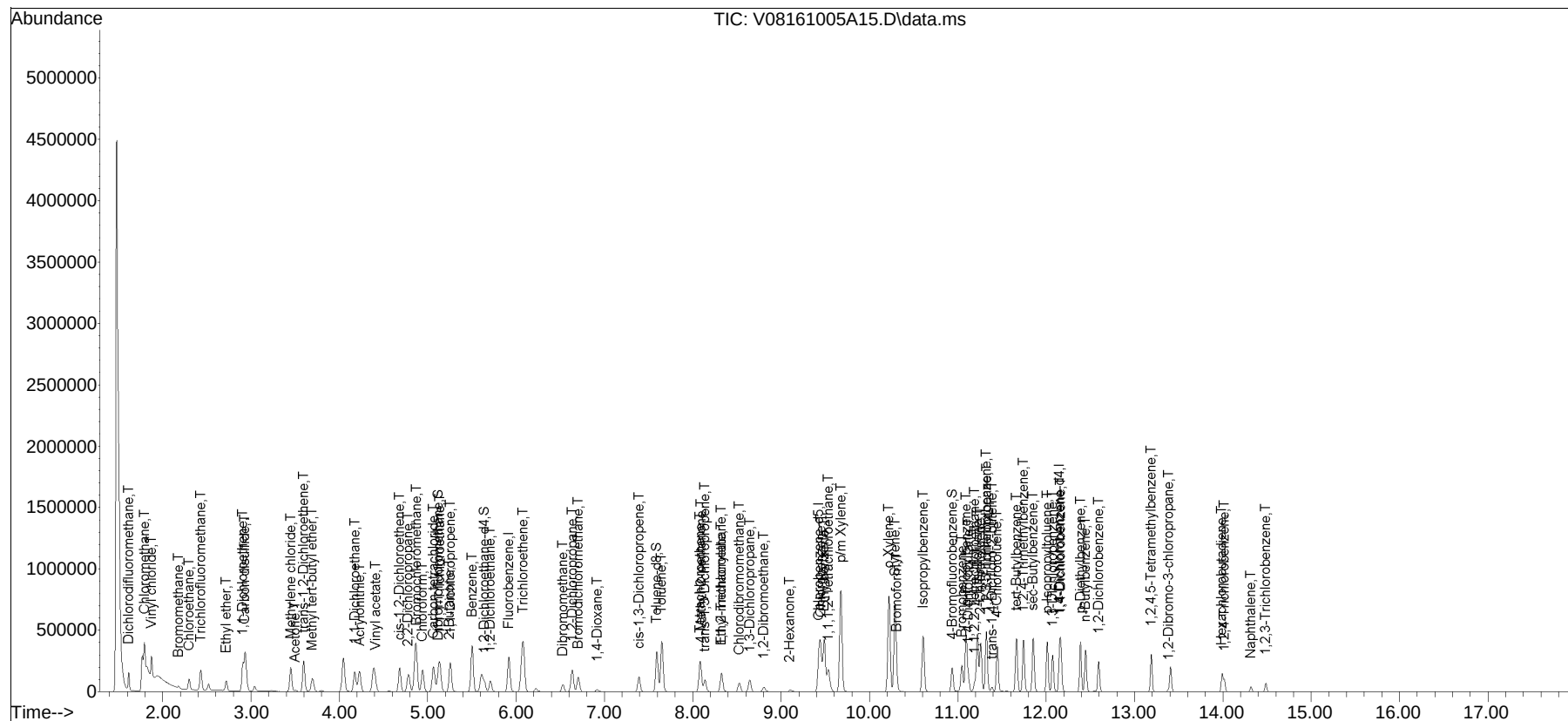
(#) = qualifier out of range (m) = manual integration (+) = signals summed

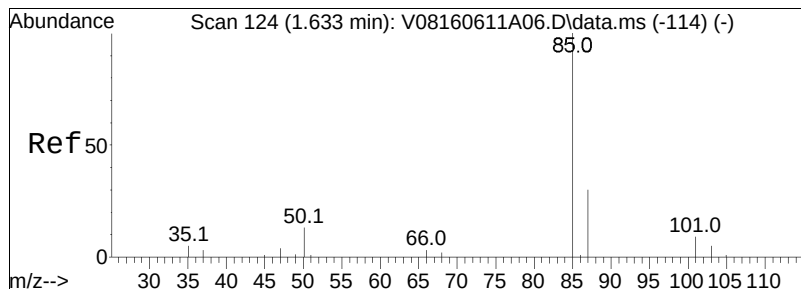
Quantitation Report (QT Reviewed)

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Data Path : I:\VOLATILES\VOA108\2016\161005A\
Data File : V08161005A15.D
Acq On    : 5 Oct 2016 3:59 pm
Operator  : VOA108:PK
Sample    : WG939161-7,31,10,10,,c2
Misc      : WG939161,ICAL12737
ALS Vial  : 15 Sample Multiplier: 1
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Quant Time: Oct 05 18:22:11 2016
Quant Method : I:\VOLATILES\VOA108\2016\161005A\V108_1600808_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Aug 09 13:29:40 2016
Response via : Initial Calibration

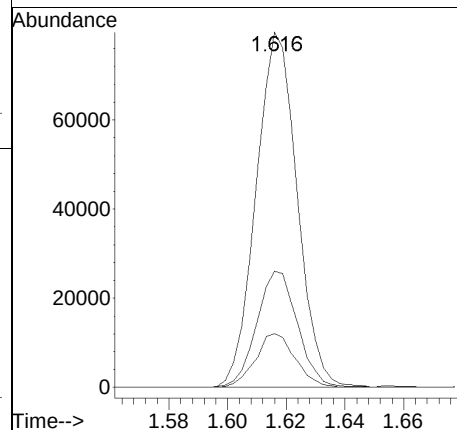
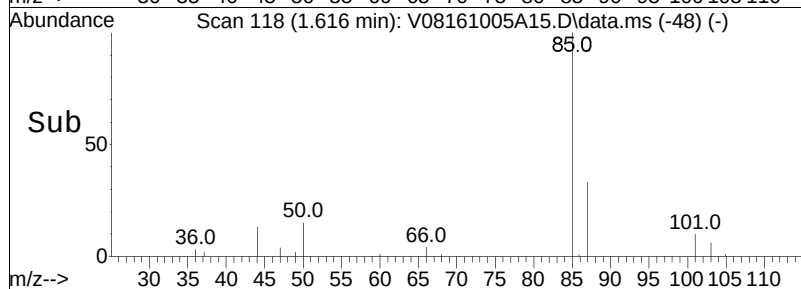
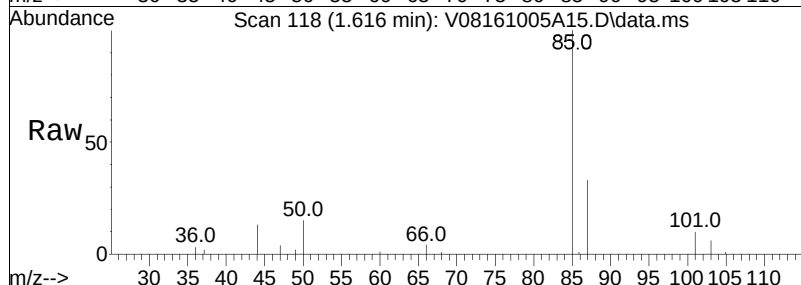
Sub List : 8260-NYTCL - Megamix plus Diox61005A\V08161005A02.D•

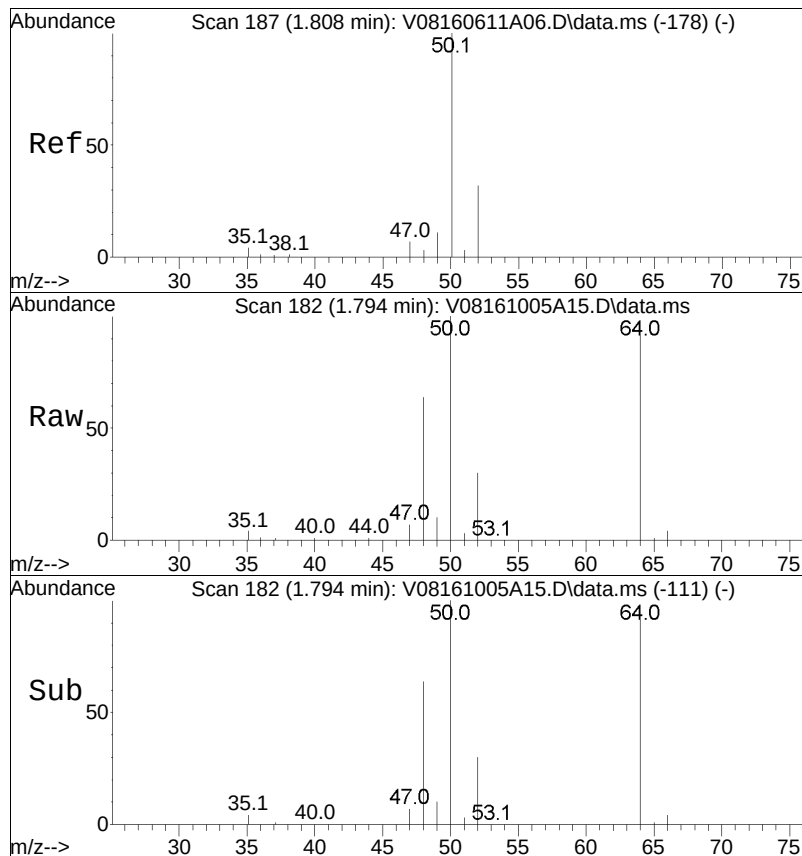




#2
 Dichlorodifluoromethane
 Concen: 12.70 ug/L
 RT: 1.616 min Scan# 118
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

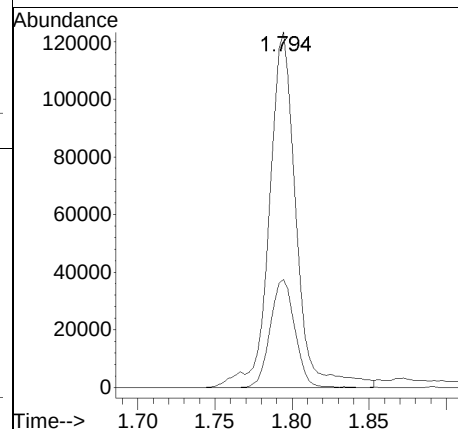
Tgt Ion	85	87	50	Ratio	100	32.5	14.7	Resp:	77450	Lower	Upper
85	100										
87		32.5				21.4					44.4
50			14.7			10.0					20.8

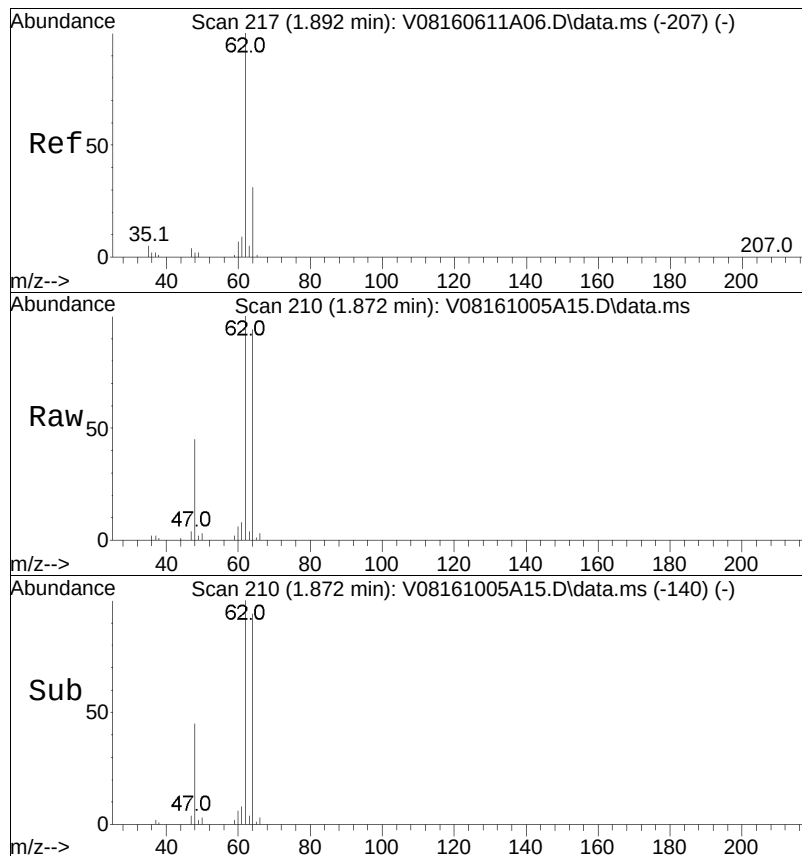




#3
 Chloromethane
 Concen: 16.72 ug/L
 RT: 1.794 min Scan# 182
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

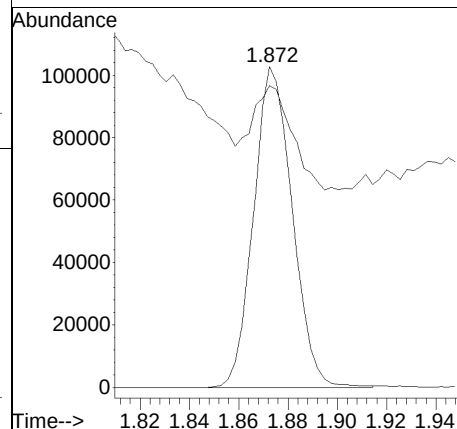
Tgt Ion	Ratio	Lower	Upper
50	100		
52	27.7	11.8	51.8

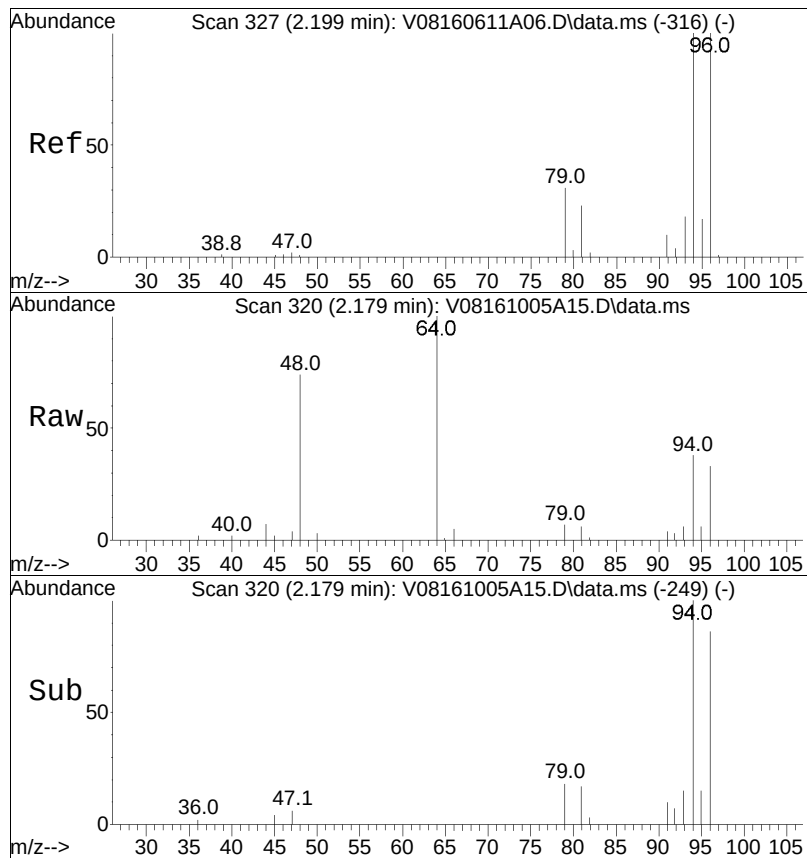




#4
 Vinyl chloride
 Concen: 13.33 ug/L
 RT: 1.872 min Scan# 210
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

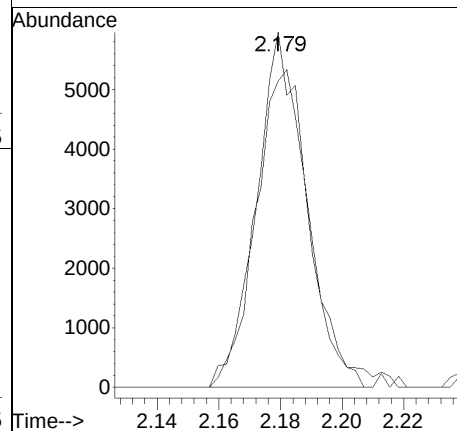
Tgt Ion	Ratio	Lower	Upper
62	100		
64	0.0	9.7	49.7#

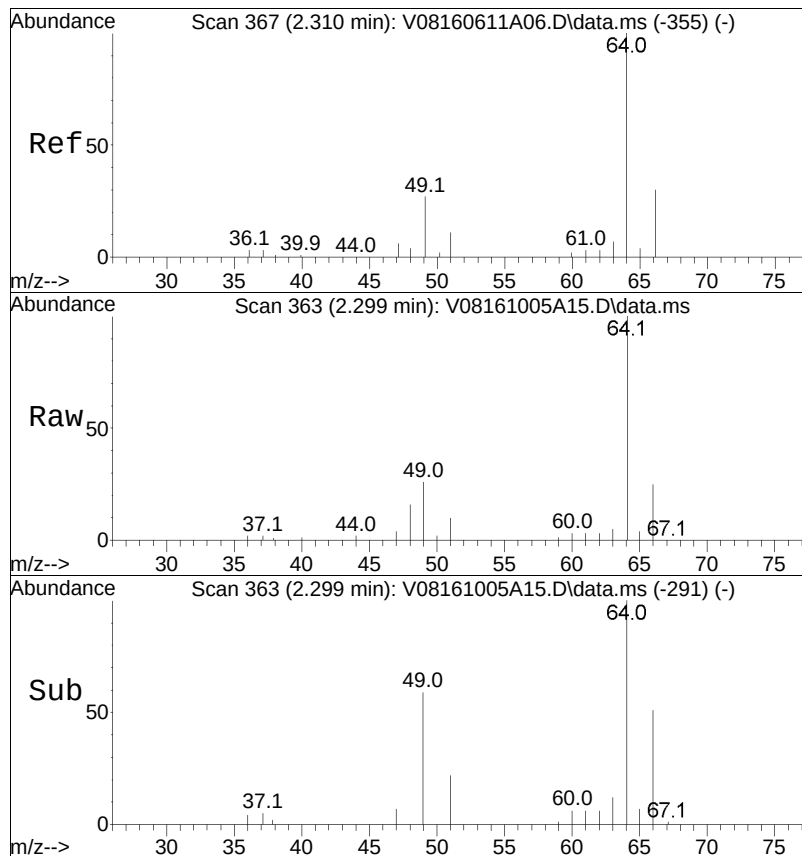




#5
 Bromomethane
 Concen: 3.15 ug/L
 RT: 2.179 min Scan# 320
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

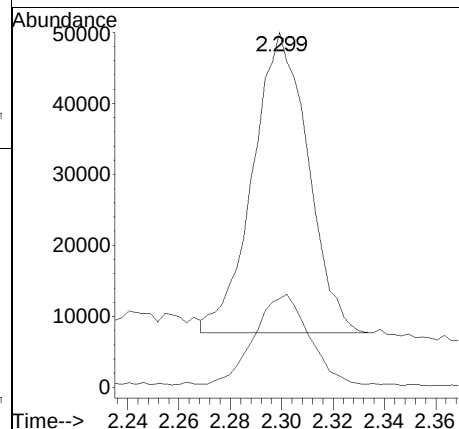
Tgt Ion	Ratio	Lower	Upper
94	100		
96	95.7	75.7	115.7

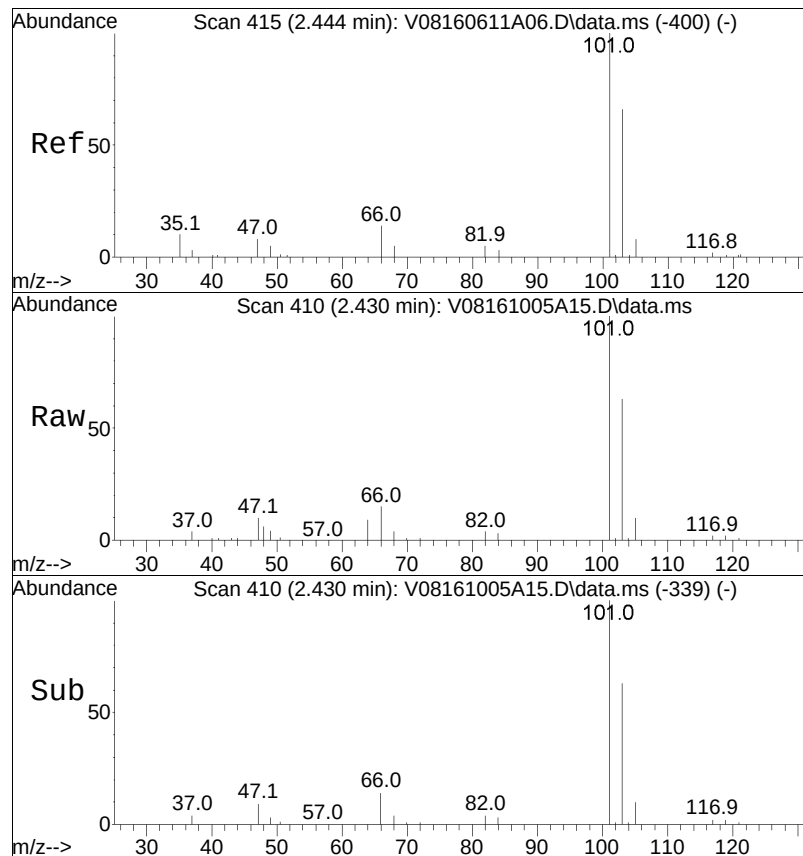




#6
 Chloroethane
 Concen: 13.83 ug/L
 RT: 2.299 min Scan# 363
 Delta R.T. 0.000 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

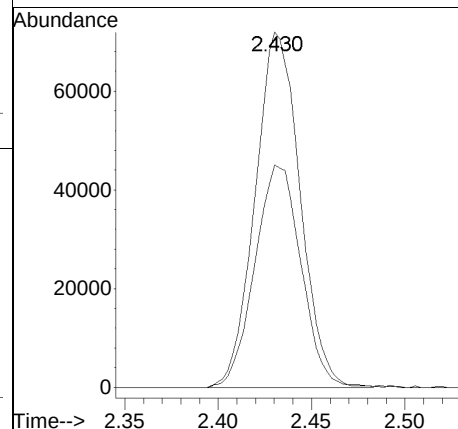
Tgt Ion:	64	Resp:	63208
Ion Ratio	Lower	Upper	
64	100		
66	29.4	9.1	49.1

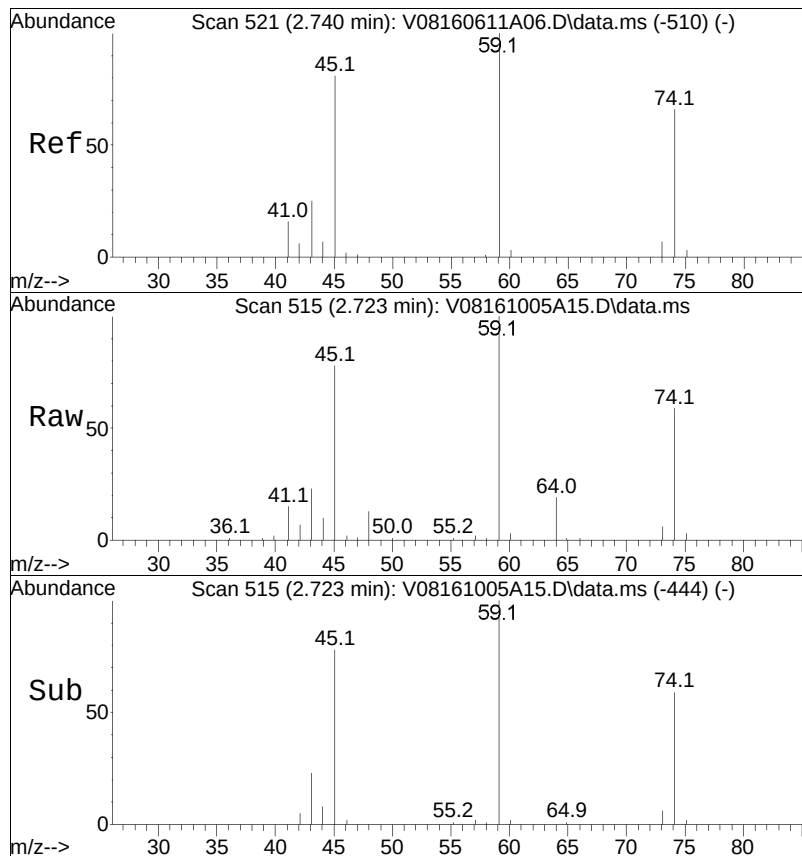




#7
 Trichlorofluoromethane
 Concen: 13.62 ug/L
 RT: 2.430 min Scan# 410
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

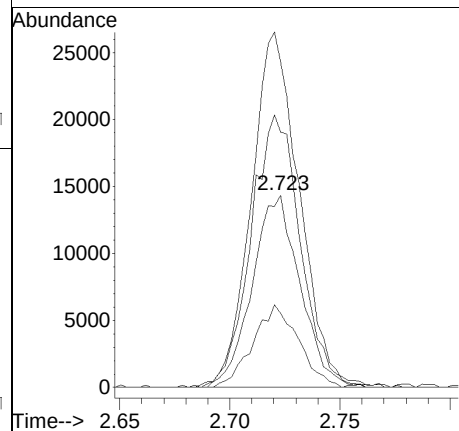
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	64.3	51.7	77.5	

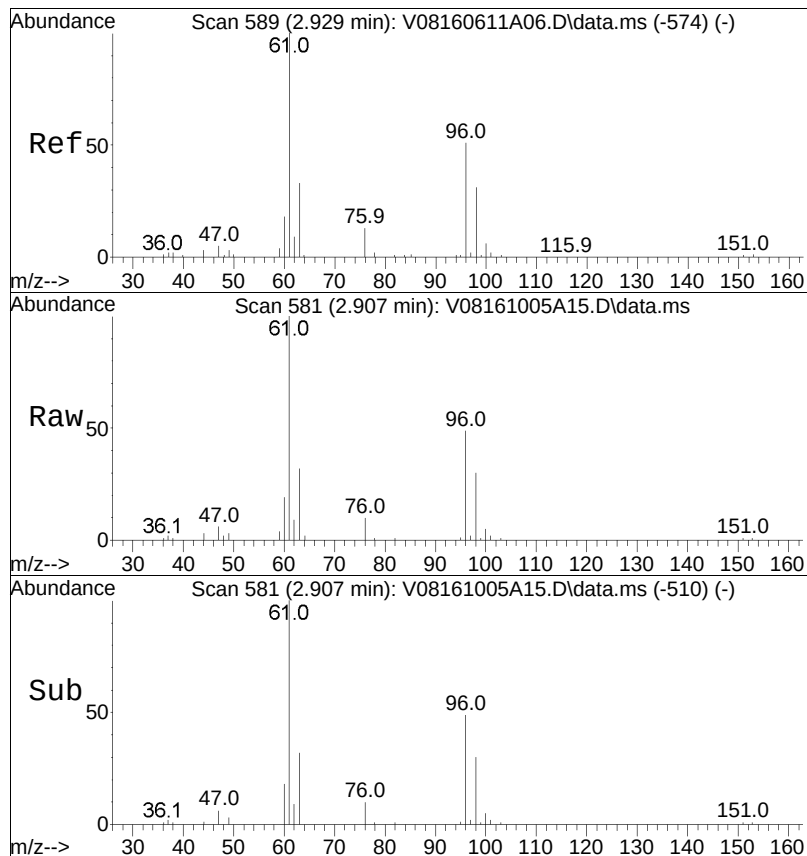




#8
 Ethyl ether
 Concen: 11.33 ug/L
 RT: 2.723 min Scan# 515
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

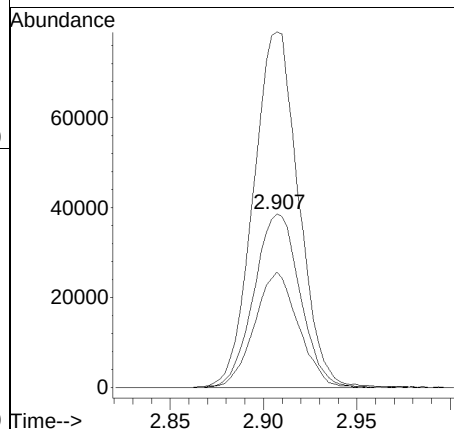
Tgt Ion:	74	Resp:	21764
Ion	Ratio	Lower	Upper
74	100		
59	185.0	126.0	261.8
45	147.2	99.2	206.0
43	41.0	26.7	55.4

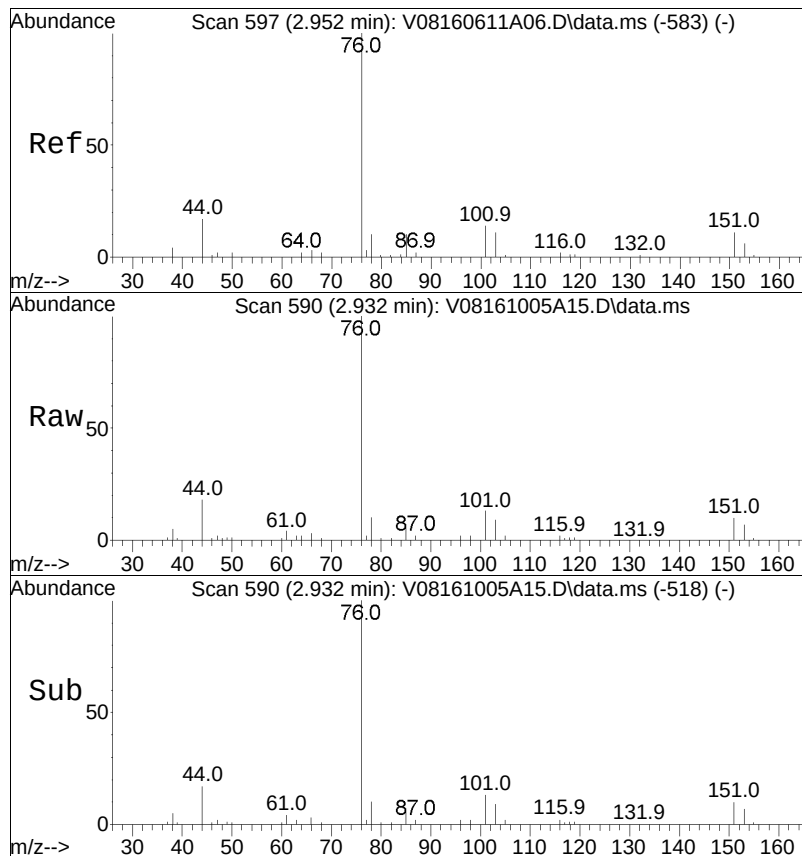




#10
 1,1-Dichloroethene
 Concen: 13.47 ug/L
 RT: 2.907 min Scan# 581
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

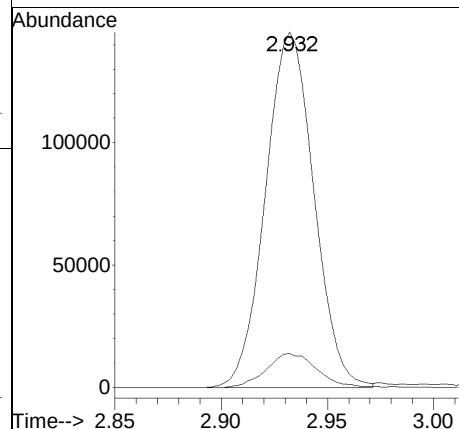
Tgt	Ion	Resp	Lower	Upper
96	100	66050		
61	201.1	171.2	256.8	
63	63.6	52.6	78.8	

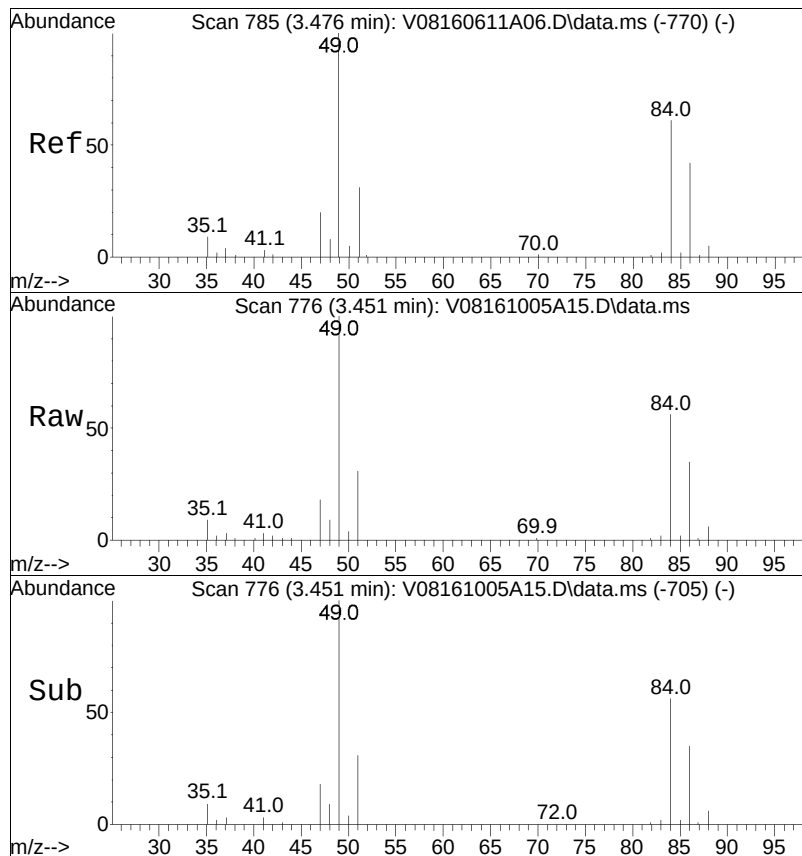




#11
 Carbon disulfide
 Concen: 13.85 ug/L
 RT: 2.932 min Scan# 590
 Delta R.T. 0.000 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

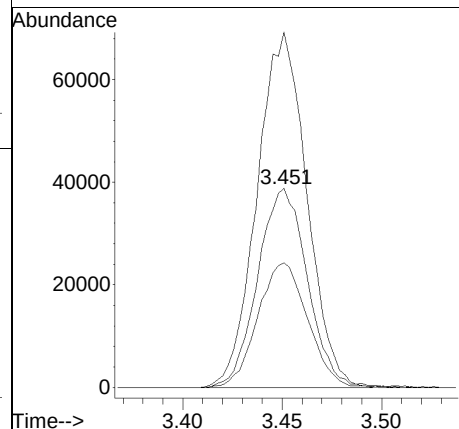
Tgt	Ion	Ratio	Lower	Upper
76	100			
78	10.0	6.6	13.8	

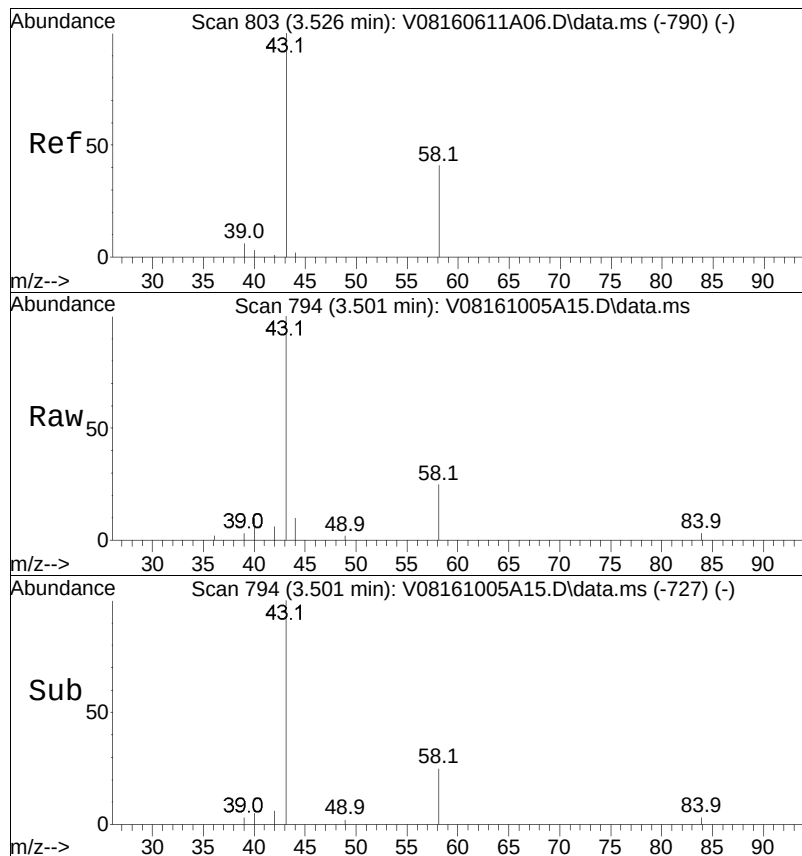




#15
Methylene chloride
Concen: 12.94 ug/L
RT: 3.451 min Scan# 776
Delta R.T. -0.003 min
Lab File: V08161005A15.D
Acq: 5 Oct 2016 3:59 pm

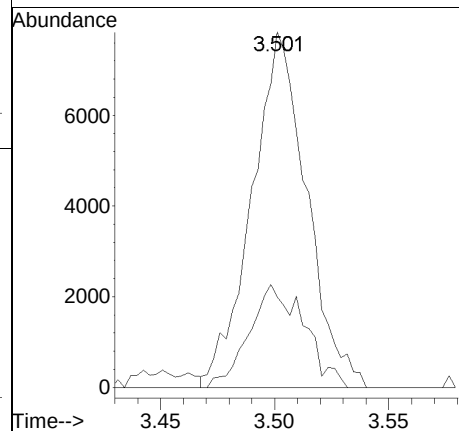
Tgt	Ion: 84	Resp:	67022
Ion	Ratio	Lower	Upper
84	100		
86	63.1	41.7	86.7
49	179.5	124.3	258.1

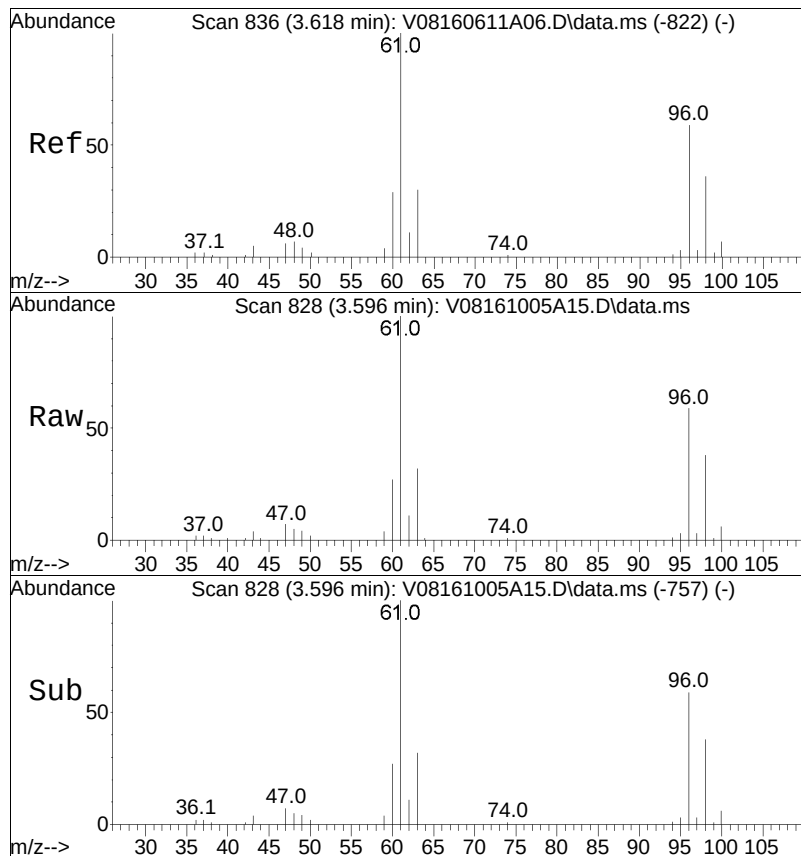




#17
 Acetone
 Concen: 15.93 ug/L
 RT: 3.501 min Scan# 794
 Delta R.T. -0.014 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

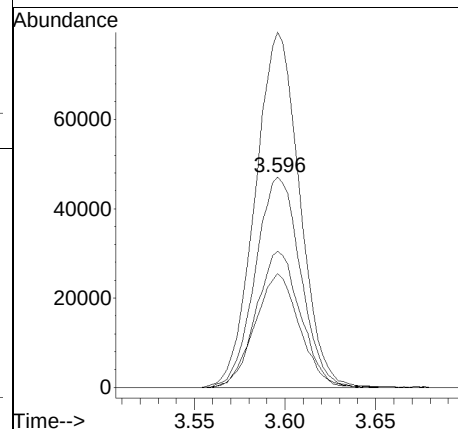
Tgt Ion:	43	58	Ratio	100	29.0	Resp:	13098	Lower	Upper
								24.5	36.7

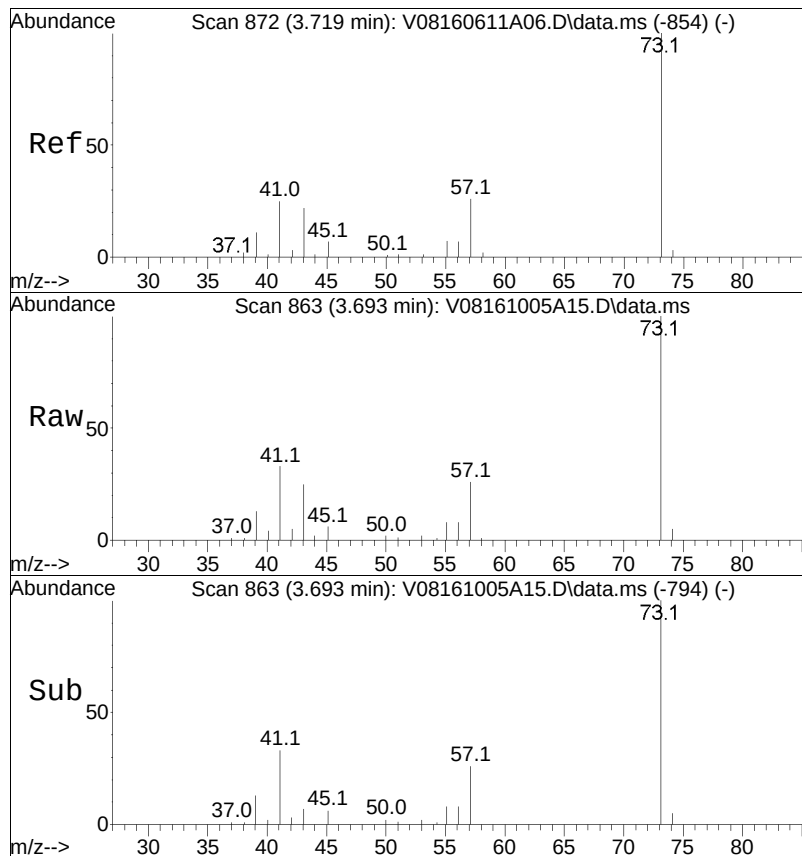




#18
 trans-1,2-Dichloroethene
 Concen: 13.69 ug/L
 RT: 3.596 min Scan# 828
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

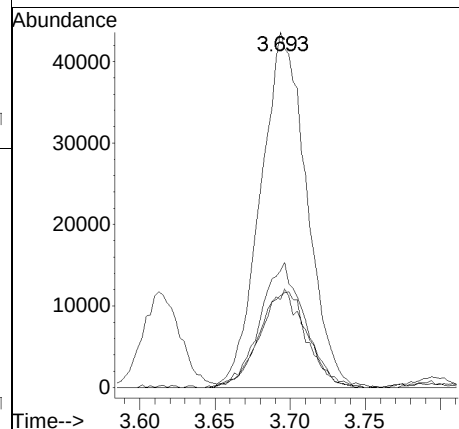
Tgt Ion: 96	Resp: 81800
Ion Ratio	Lower Upper
96 100	
61 165.5	114.1 236.9
98 63.5	42.1 87.3
63 52.9	36.1 74.9

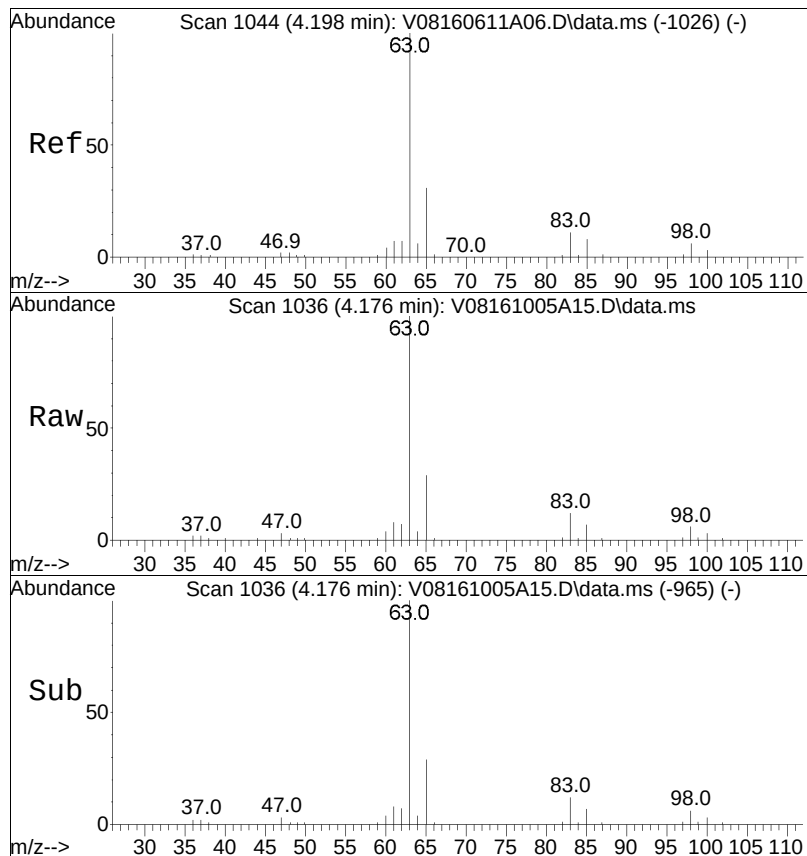




#20
Methyl tert-butyl ether
Concen: 12.10 ug/L
RT: 3.693 min Scan# 863
Delta R.T. -0.009 min
Lab File: V08161005A15.D
Acq: 5 Oct 2016 3:59 pm

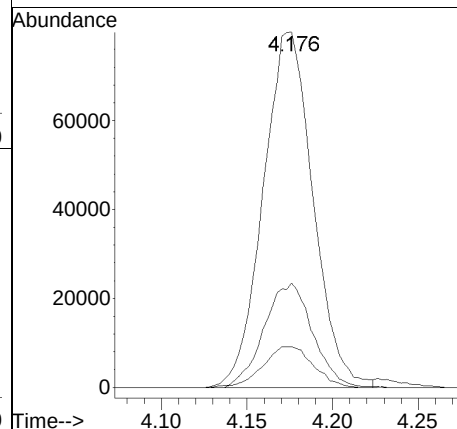
Tgt Ion:	73	Resp:	92696
Ion Ratio	Lower	Upper	
73	100		
57	28.5	21.4	44.4
43	27.1	8.1	16.9#
41	34.3	21.7	45.1

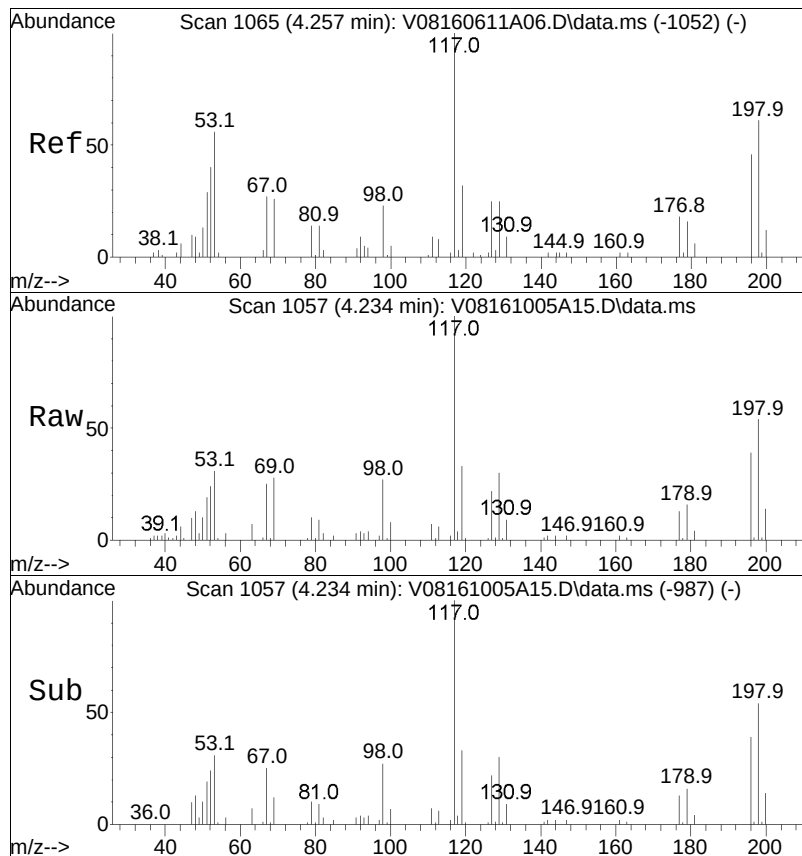




#23
 1,1-Dichloroethane
 Concen: 12.83 ug/L
 RT: 4.176 min Scan# 1036
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

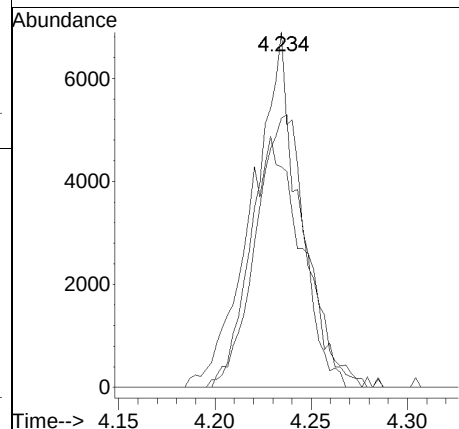
Tgt Ion:	63	Resp:	161712
Ion Ratio	Lower	Upper	
63	100		
65	28.7	8.1	48.1
83	11.5	0.0	30.5

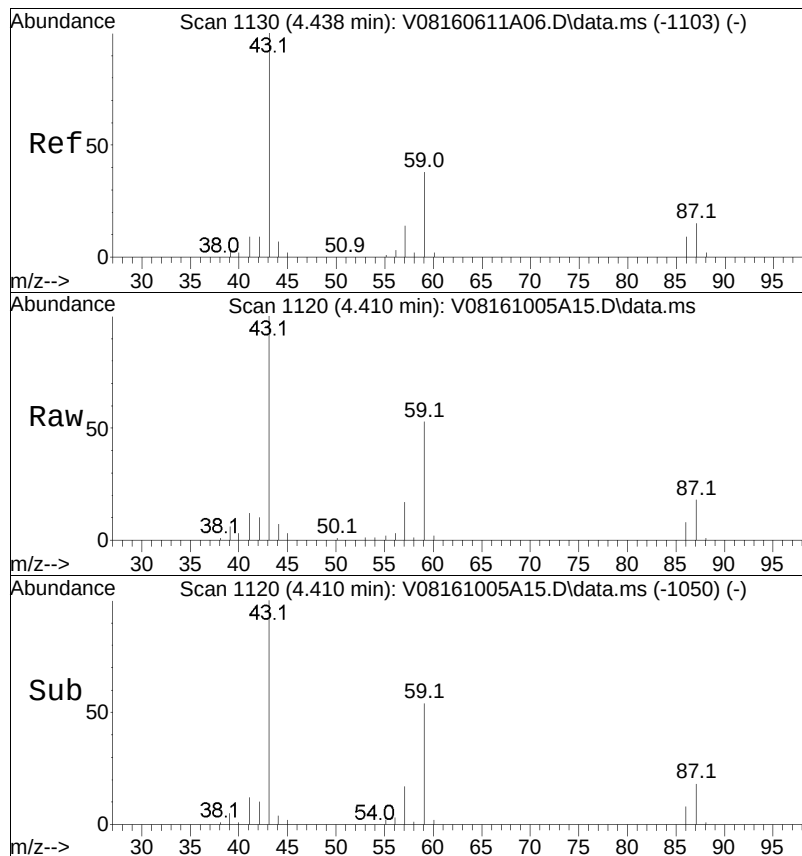




#25
 Acrylonitrile
 Concen: 10.90 ug/L
 RT: 4.234 min Scan# 1057
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

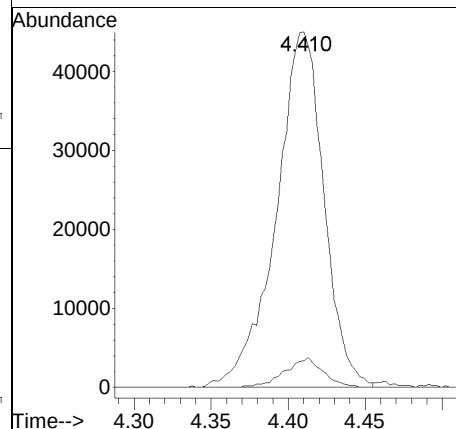
Tgt Ion:	53	Resp:	11247
Ion Ratio	Lower	Upper	
53	100		
52	84.4	69.4	104.0
51	89.3	47.5	71.3#

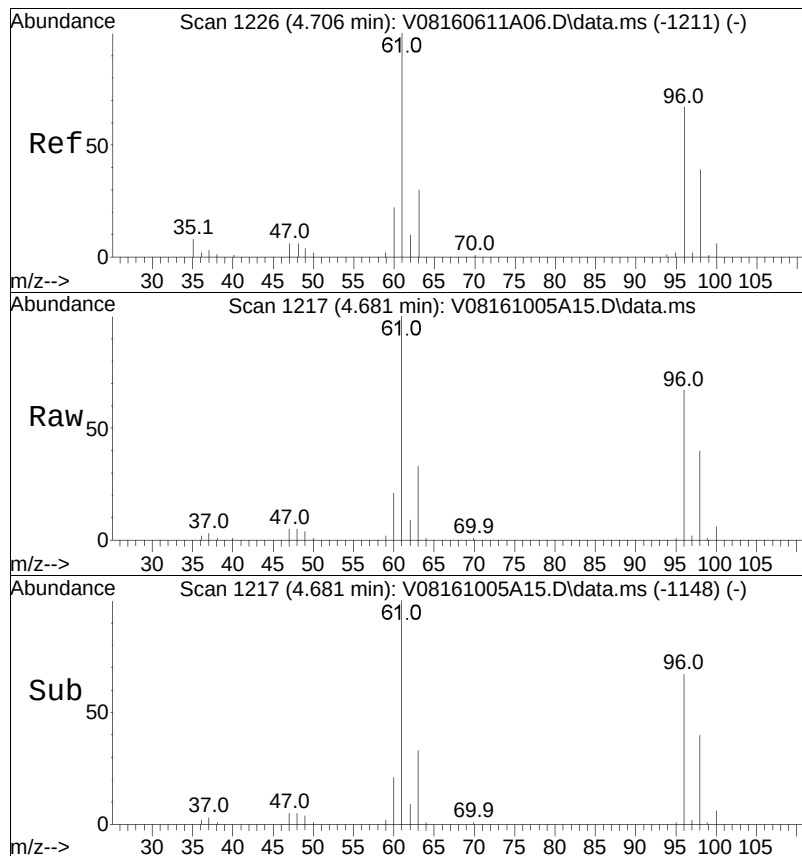




#27
 Vinyl acetate
 Concen: 12.69 ug/L
 RT: 4.410 min Scan# 1120
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

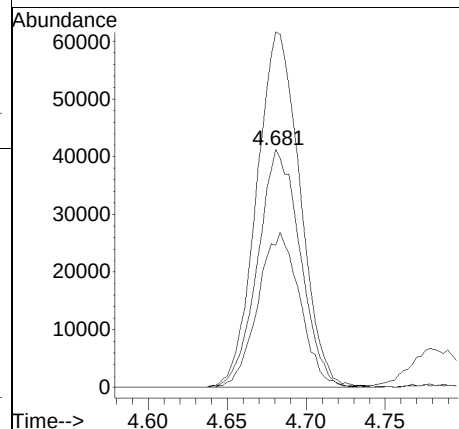
Tgt Ion:	43	86	Ratio	100	6.7	Resp:	97324	Lower	3.4	Upper	5.2#

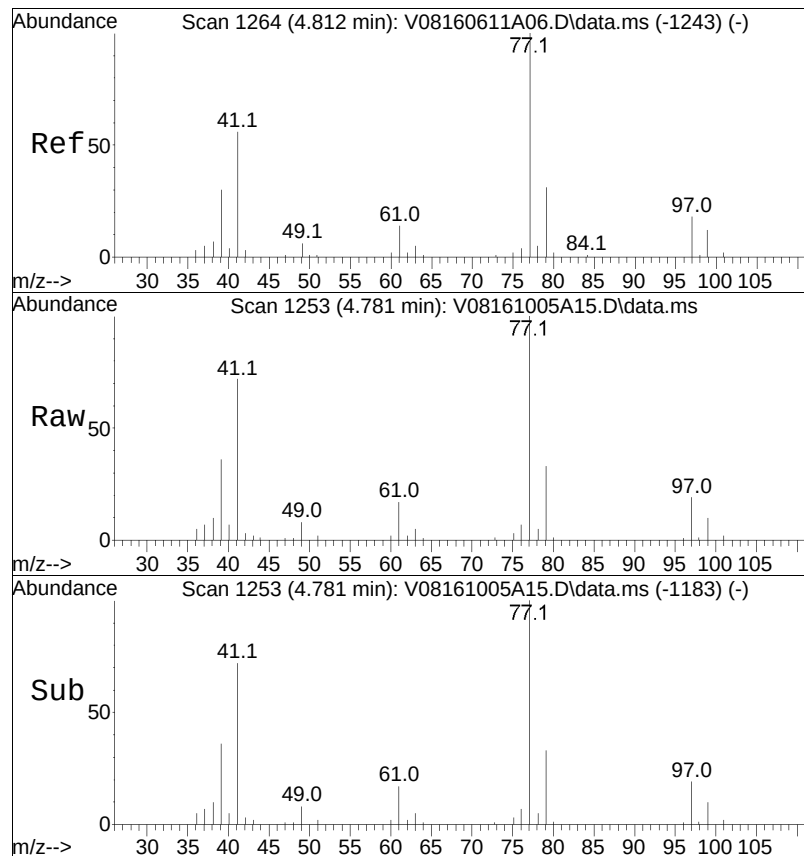




#28
 cis-1,2-Dichloroethene
 Concen: 12.87 ug/L
 RT: 4.681 min Scan# 1217
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

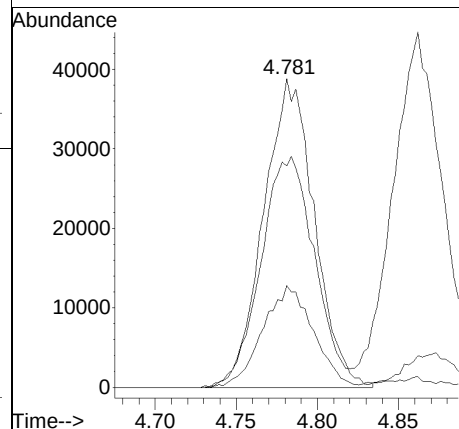
Tgt Ion:	96	Resp:	77511
Ion Ratio	Lower	Upper	
96	100		
61	151.7	127.6	191.4
98	64.3	50.0	75.0

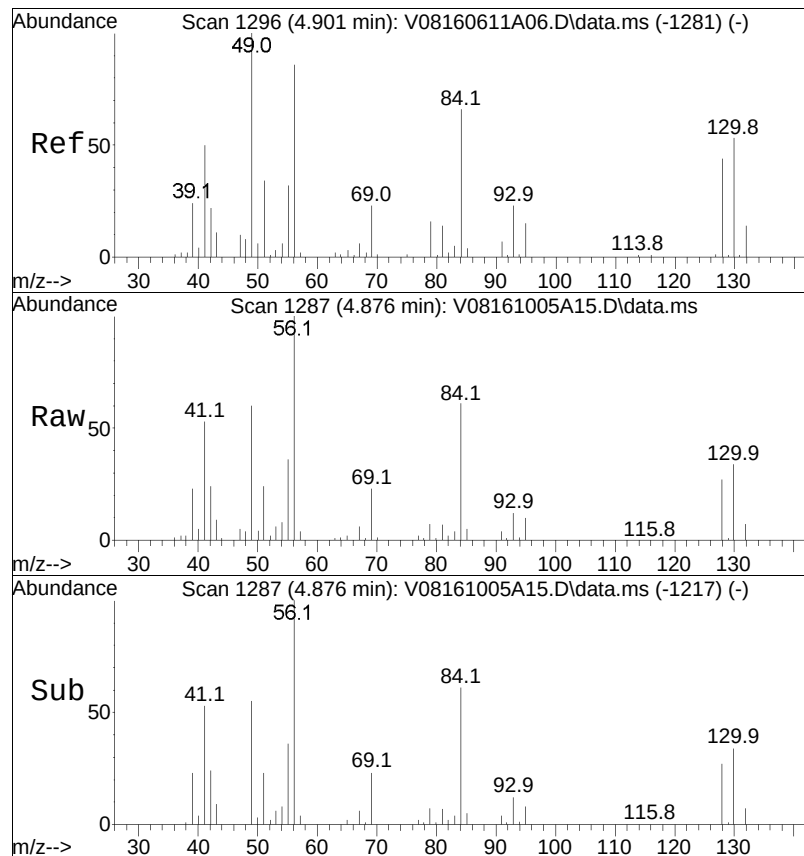




#29
 2,2-Dichloropropane
 Concen: 11.29 ug/L
 RT: 4.781 min Scan# 1253
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

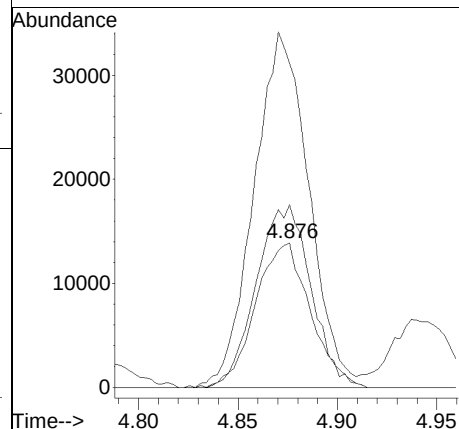
Tgt Ion:	77	Resp:	84562
Ion Ratio	Lower	Upper	
77	100		
41	79.0	52.5	108.9
79	32.9	21.1	43.7

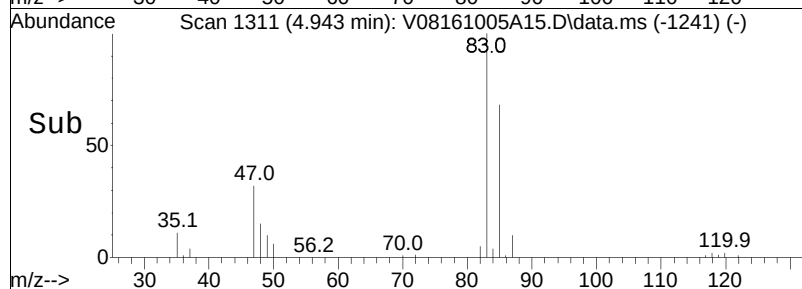
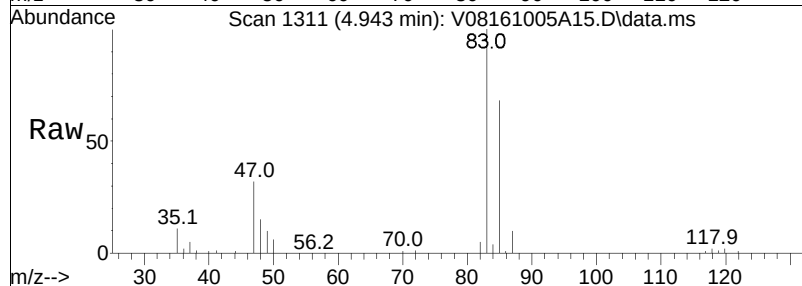
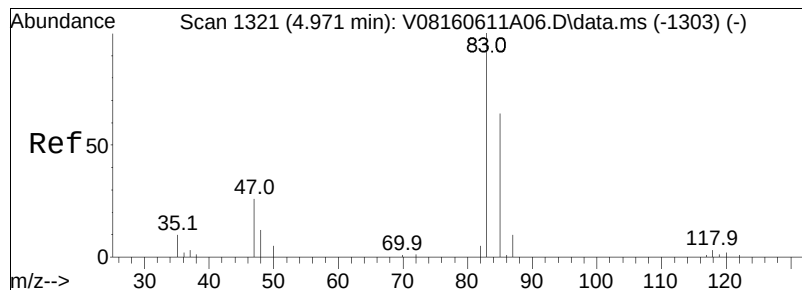




#30
 Bromochloromethane
 Concen: 11.89 ug/L
 RT: 4.876 min Scan# 1287
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

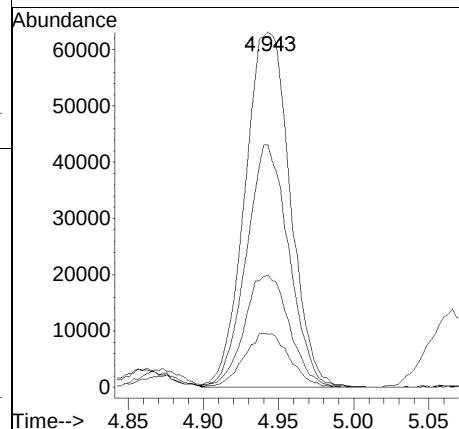
Tgt	Ion:128	Resp:	26395
Ion	Ratio	Lower	Upper
128	100		
49	247.2	224.2	336.4
130	127.3	105.3	157.9

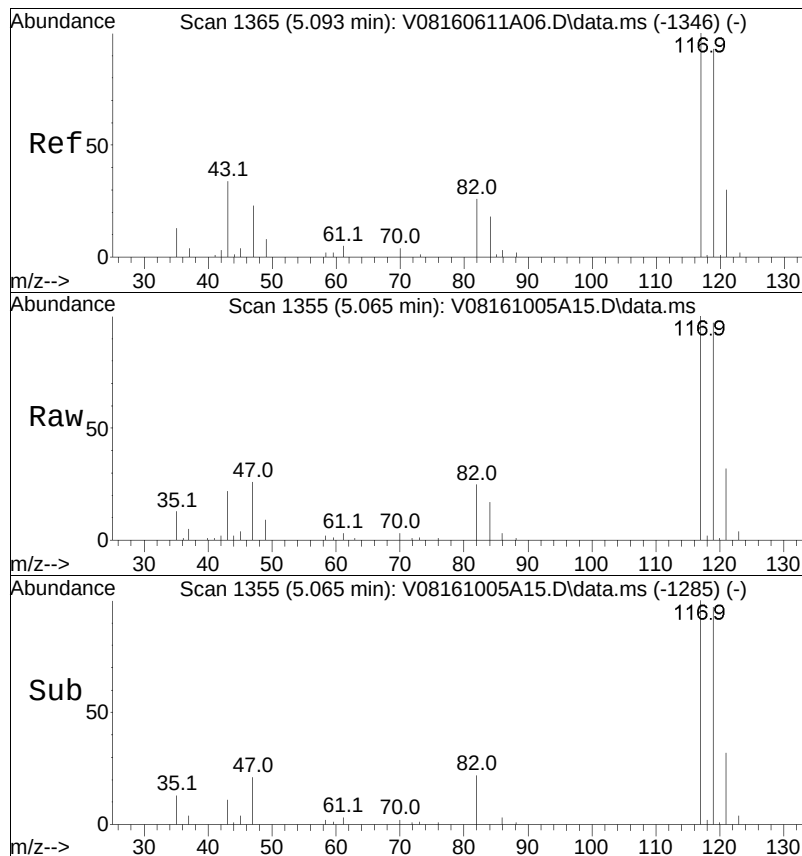




#32
 Chloroform
 Concen: 13.14 ug/L
 RT: 4.943 min Scan# 1311
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

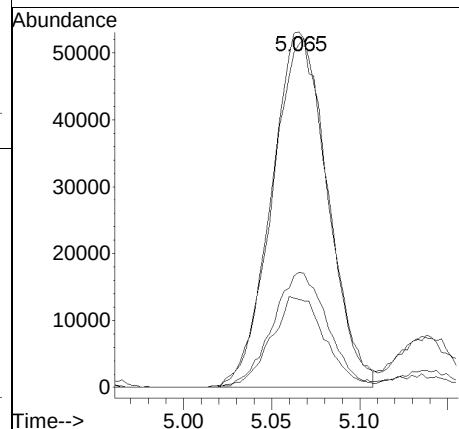
Tgt Ion:	83	Resp:	132510
Ion Ratio	Lower	Upper	
83	100		
85	64.7	42.7	88.7
47	31.6	20.9	43.5
48	15.4	10.5	21.7

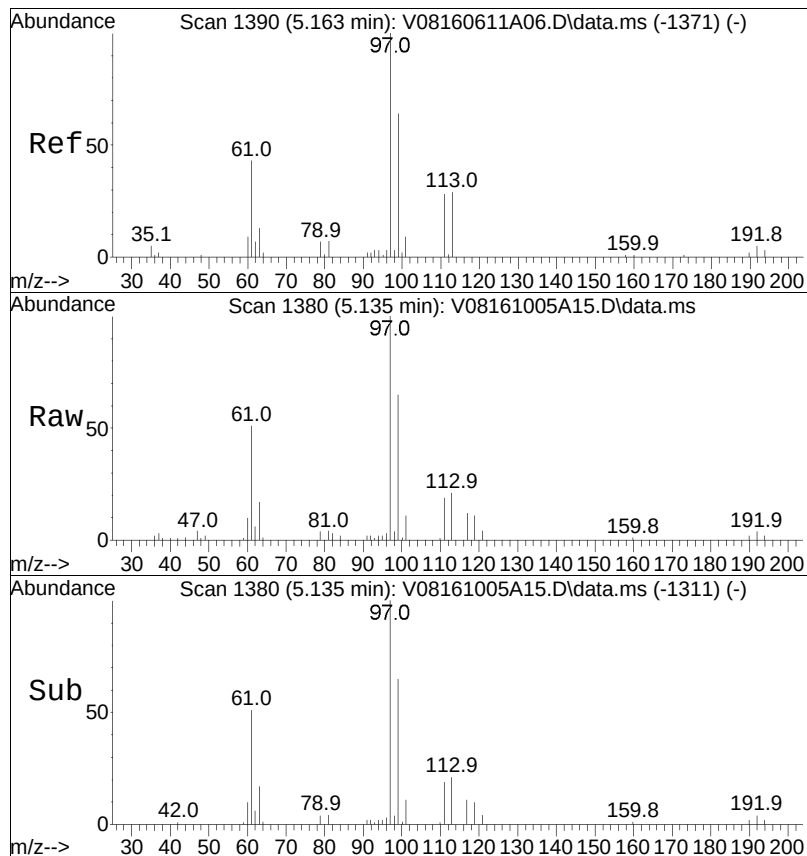




#34
 Carbon tetrachloride
 Concen: 13.42 ug/L
 RT: 5.065 min Scan# 1355
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

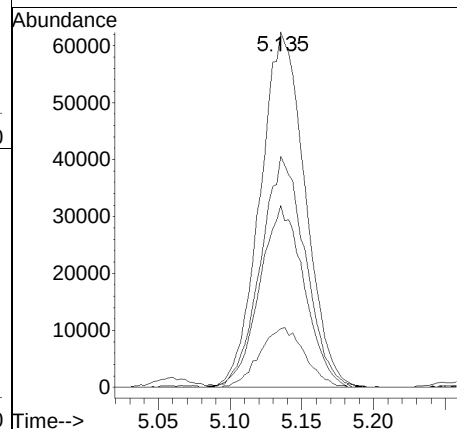
Tgt Ion:	117	Resp:	118588
Ion Ratio	Lower	Upper	
117	100		
119	97.1	62.9	130.5
121	31.6	20.0	41.4
82	24.4	16.7	34.7

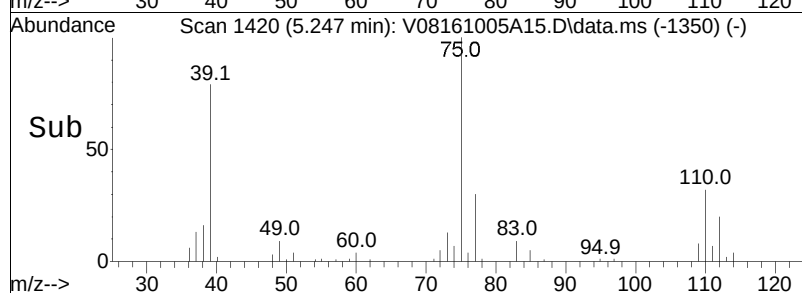
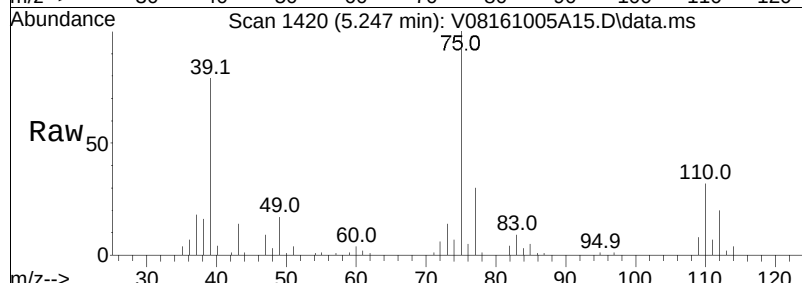
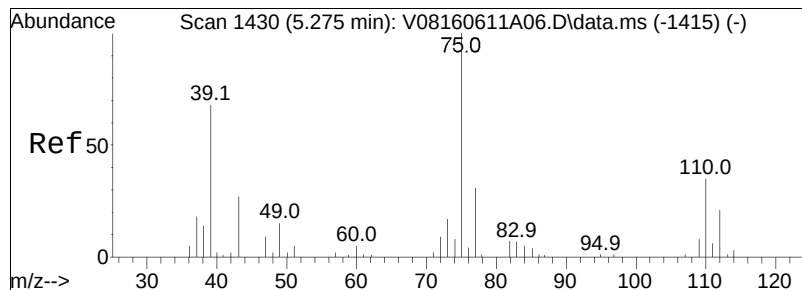




#37
 1,1,1-Trichloroethane
 Concen: 14.21 ug/L
 RT: 5.135 min Scan# 1380
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

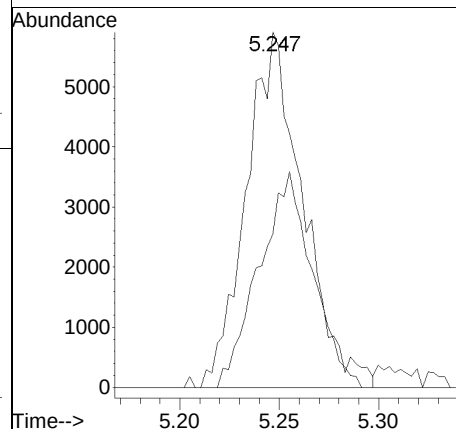
Tgt Ion:	97	Resp:	136820
Ion Ratio	Lower	Upper	
97	100		
99	64.5	40.3	83.7
61	50.7	34.3	71.1
63	16.9	6.0	12.4#

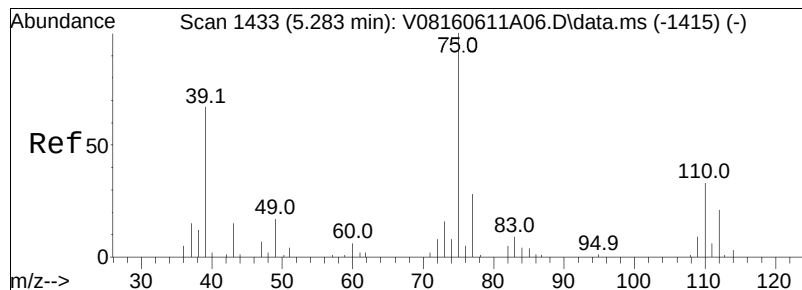




#39
 2-Butanone
 Concen: 11.98 ug/L
 RT: 5.247 min Scan# 1420
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

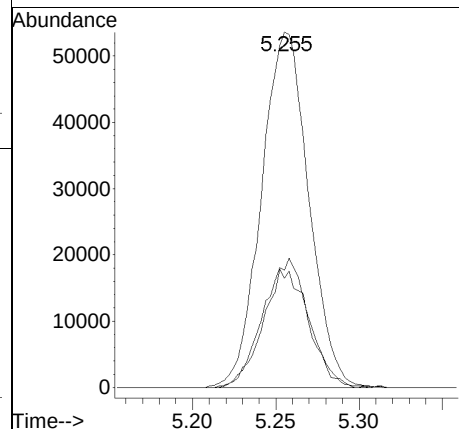
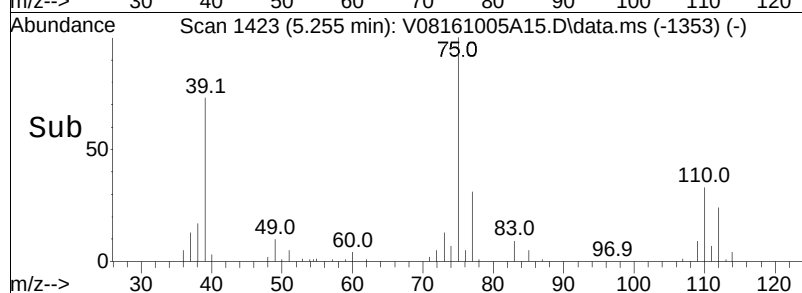
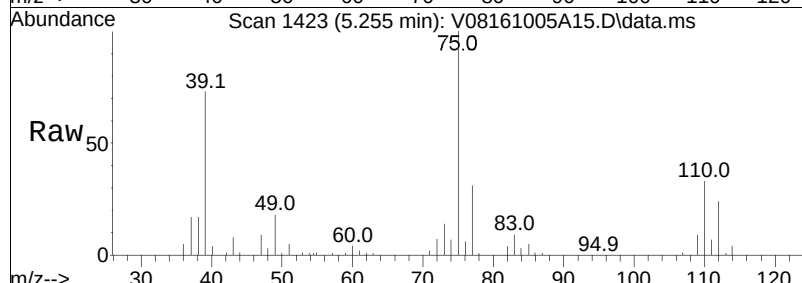
Tgt Ion:	43	72	Resp:	11725
Ion Ratio	100	56.9	Lower	Upper
			30.0	45.0#

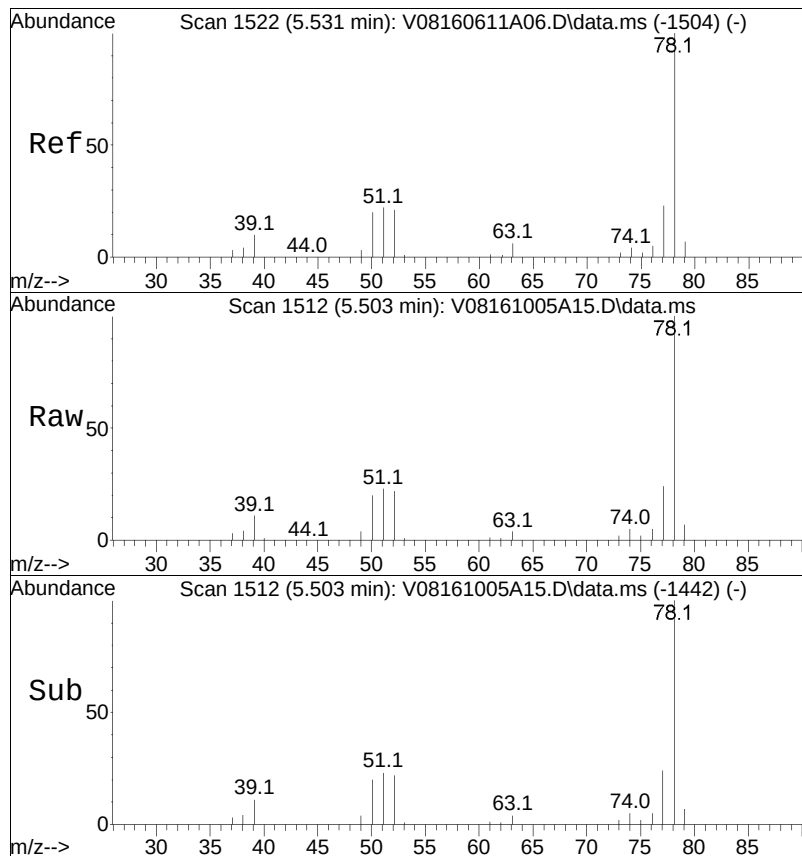




#40
 1,1-Dichloropropene
 Concen: 13.05 ug/L
 RT: 5.255 min Scan# 1423
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

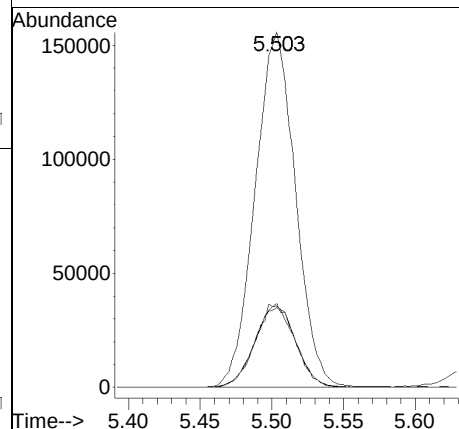
Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.3	22.9	47.7
77	32.0	20.3	42.3

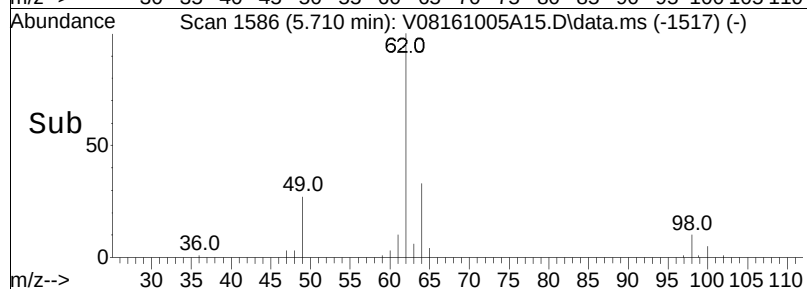
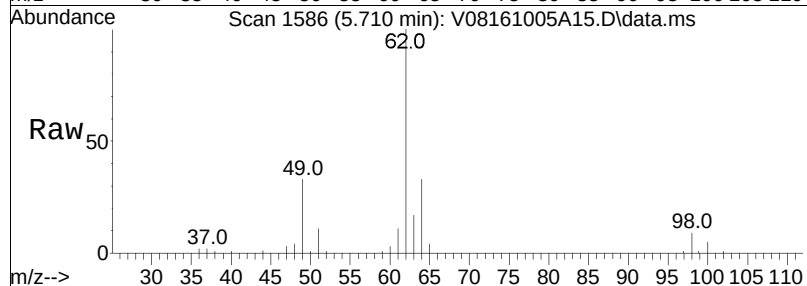
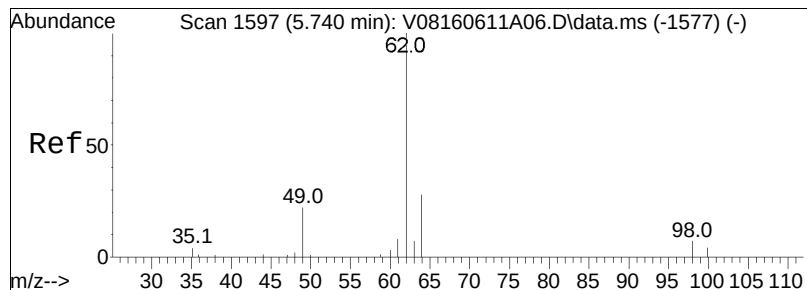




#41
Benzene
Concen: 12.87 ug/L
RT: 5.503 min Scan# 1512
Delta R.T. -0.006 min
Lab File: V08161005A15.D
Acq: 5 Oct 2016 3:59 pm

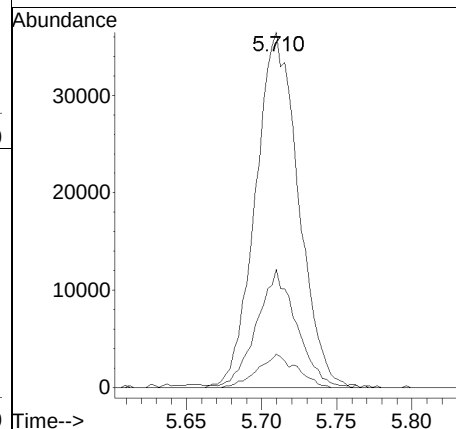
Tgt	Ion: 78	Resp:	305098
Ion	Ratio	Lower	Upper
78	100		
77	23.5	14.9	30.9
51	23.6	15.7	32.7
52	23.0	15.8	32.8

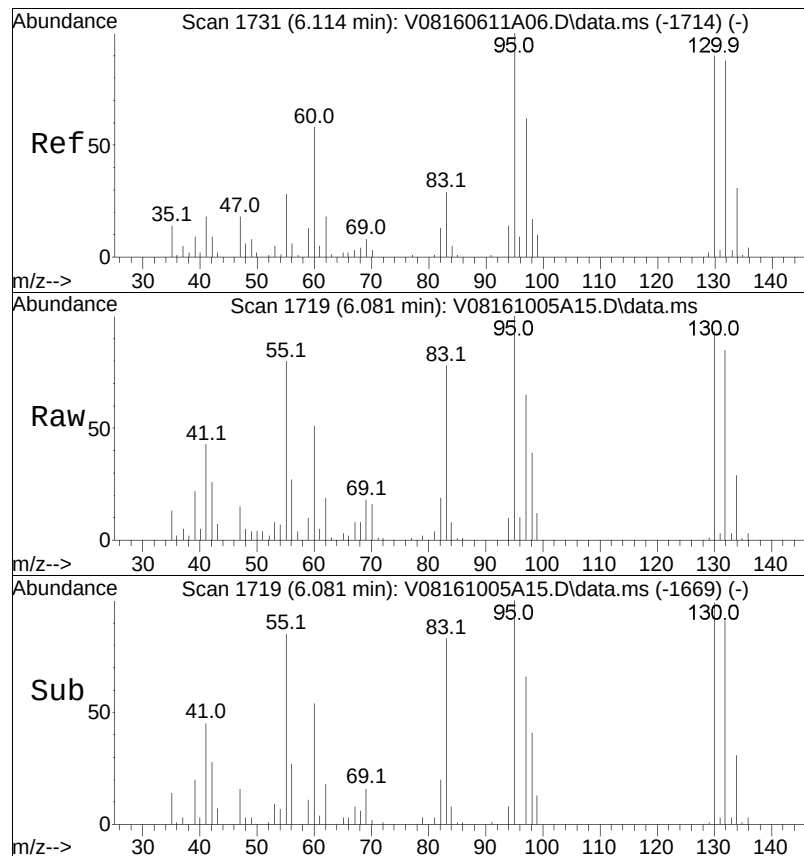




#44
 1,2-Dichloroethane
 Concen: 11.88 ug/L
 RT: 5.710 min Scan# 1586
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

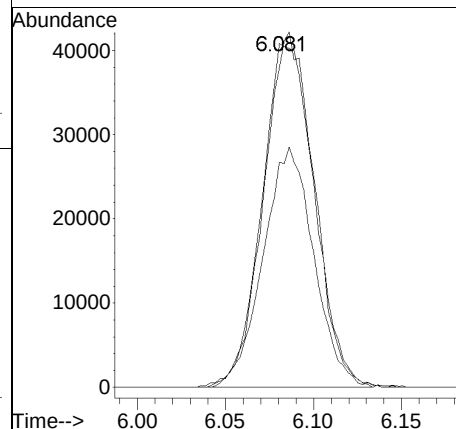
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	30.7	10.9	50.9	
98	8.5	0.0	23.4	

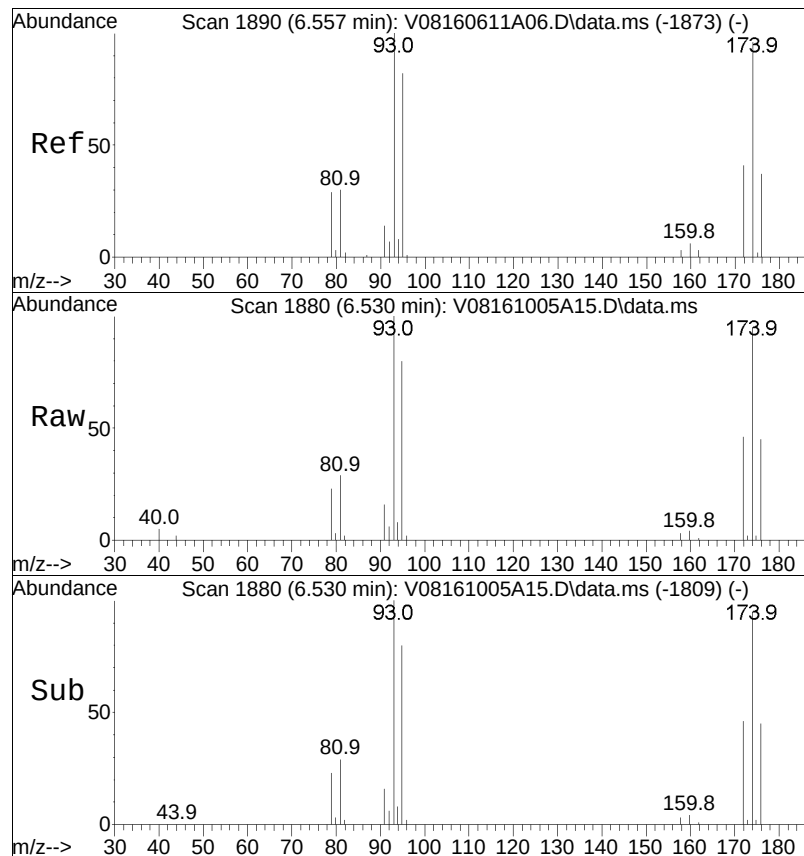




#48
 Trichloroethene
 Concen: 13.22 ug/L
 RT: 6.081 min Scan# 1719
 Delta R.T. -0.011 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

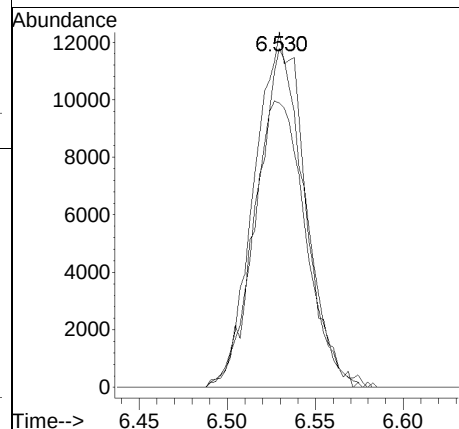
Tgt Ion:	95	Resp:	84338
Ion Ratio	Lower	Upper	
95	100		
97	68.4	55.1	82.7
130	100.2	77.3	115.9

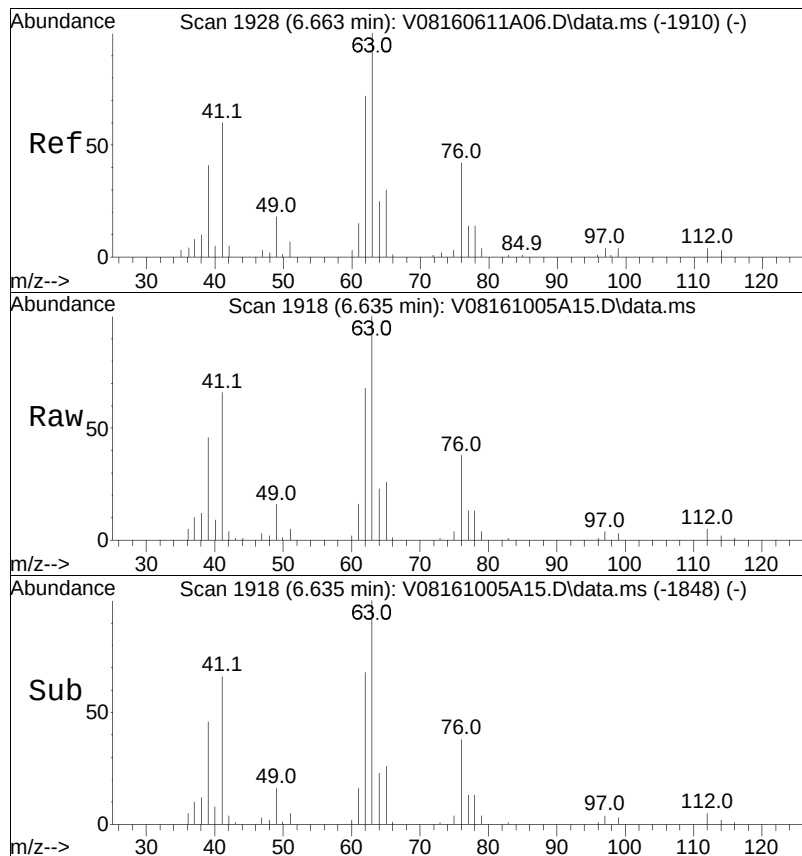




#50
 Dibromomethane
 Concen: 12.08 ug/L
 RT: 6.530 min Scan# 1880
 Delta R.T. -0.002 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

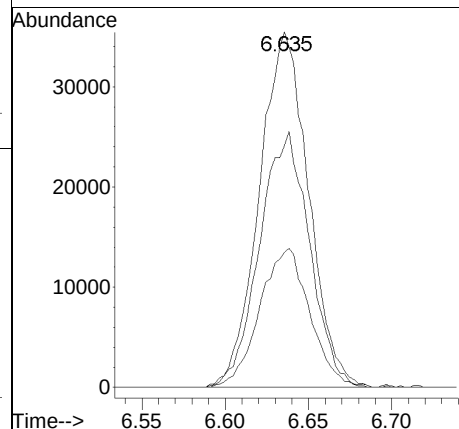
Tgt Ion:	93	Resp:	25087
Ion Ratio	Lower	Upper	
93	100		
95	82.1	66.7	100.1
174	88.4	67.9	101.9

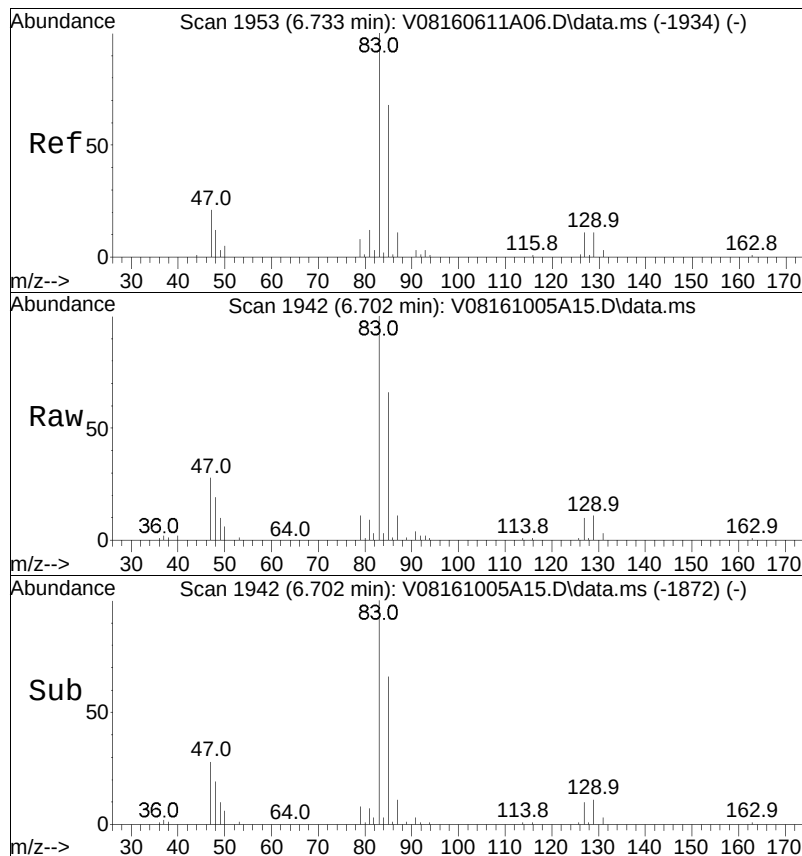




#51
 1,2-Dichloropropane
 Concen: 12.02 ug/L
 RT: 6.635 min Scan# 1918
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

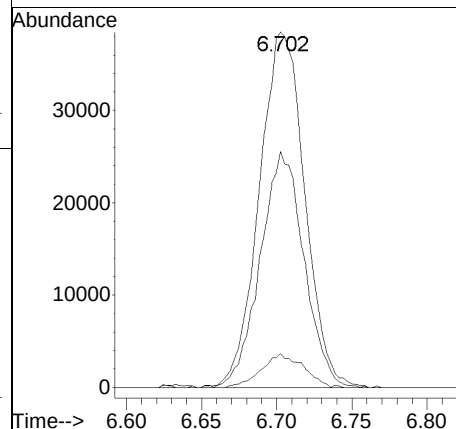
Tgt	Ion: 63	Resp:	73124
Ion	Ratio	Lower	Upper
63	100		
62	73.0	57.8	86.6
76	39.7	28.0	42.0

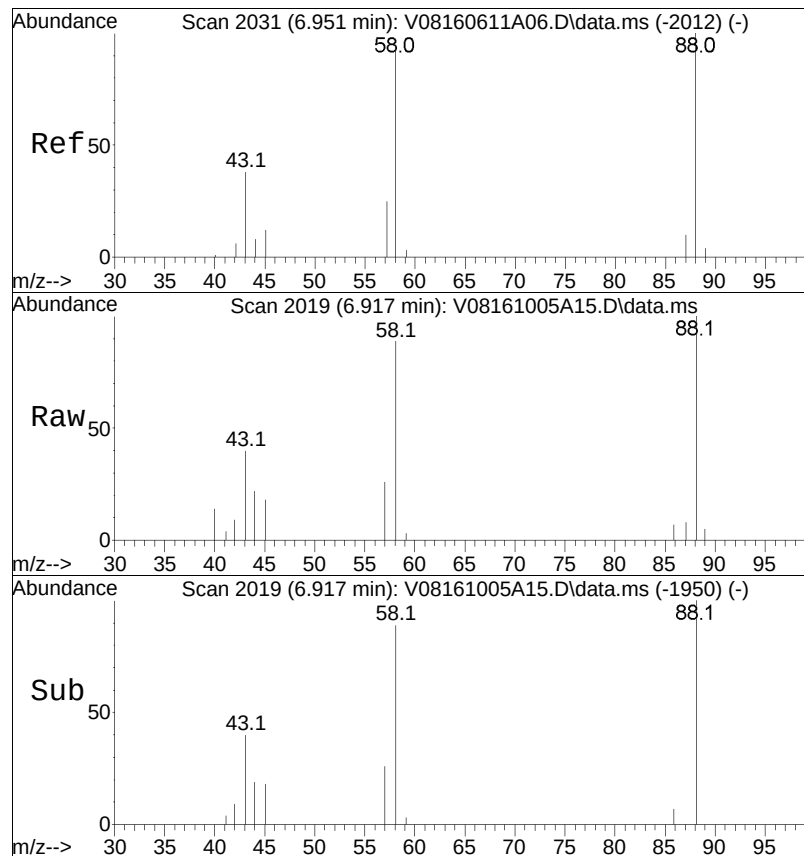




#54
 Bromodichloromethane
 Concen: 12.57 ug/L
 RT: 6.702 min Scan# 1942
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

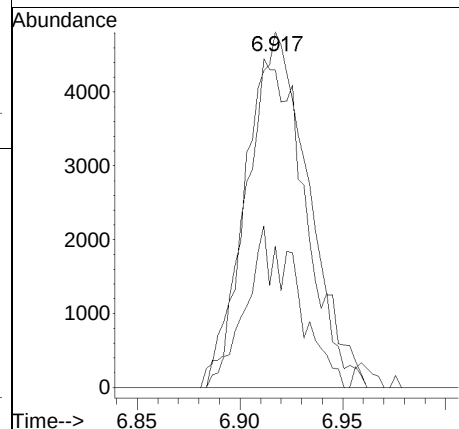
Tgt Ion	83	Resp	80987
Ion Ratio	100	Lower	Upper
85	63.7	51.5	77.3
127	8.8	4.2	6.4

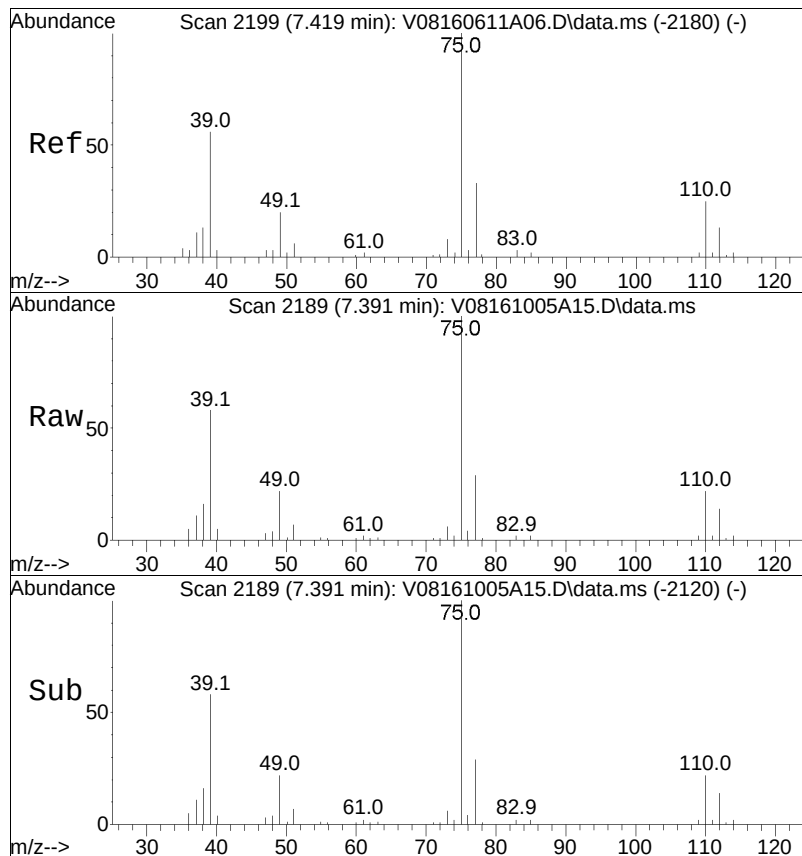




#57
 1,4-Dioxane
 Concen: 516.49 ug/L
 RT: 6.917 min Scan# 2019
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

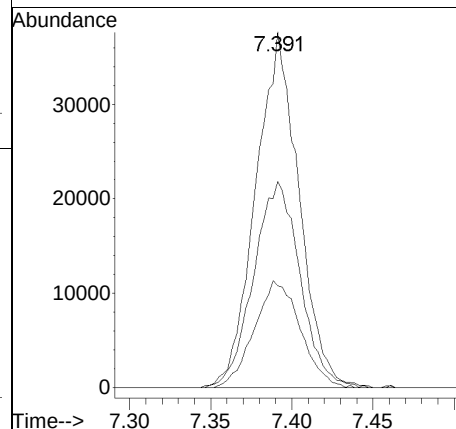
Tgt Ion:	88	Resp:	10163
Ion Ratio	Lower	Upper	
88	100		
58	89.6	70.8	106.2
43	22.9	29.3	43.9#

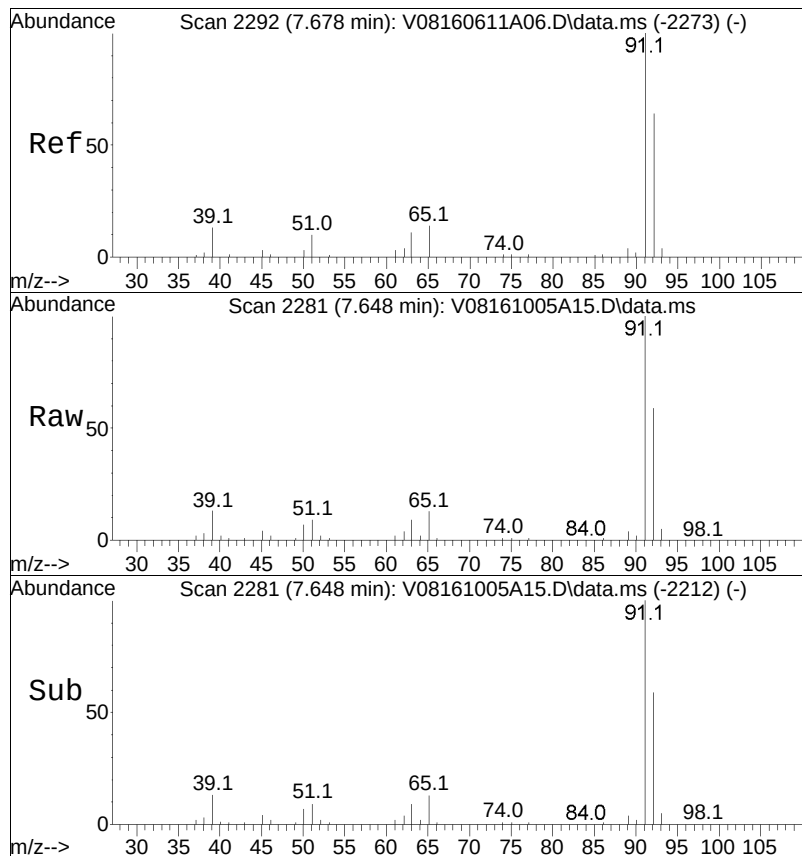




#58
 cis-1,3-Dichloropropene
 Concen: 10.02 ug/L
 RT: 7.391 min Scan# 2189
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

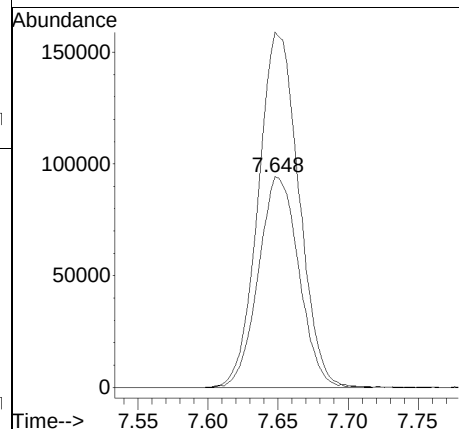
Tgt Ion:	75	Resp:	69616
Ion Ratio	Lower	Upper	
75	100		
77	32.0	24.6	37.0
39	62.3	48.9	73.3

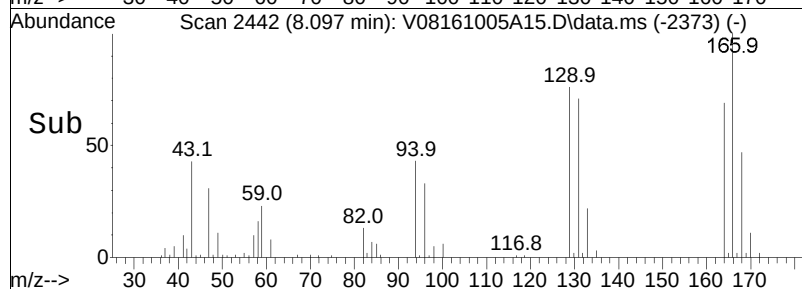
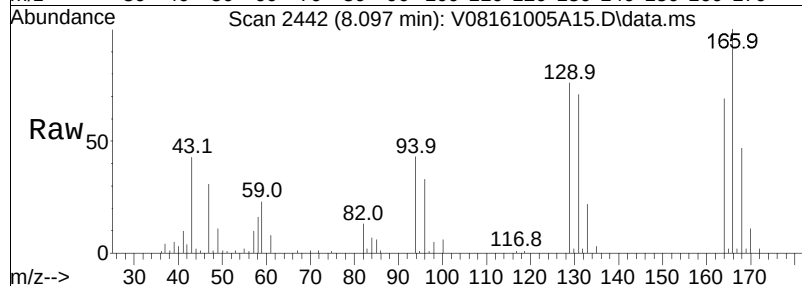
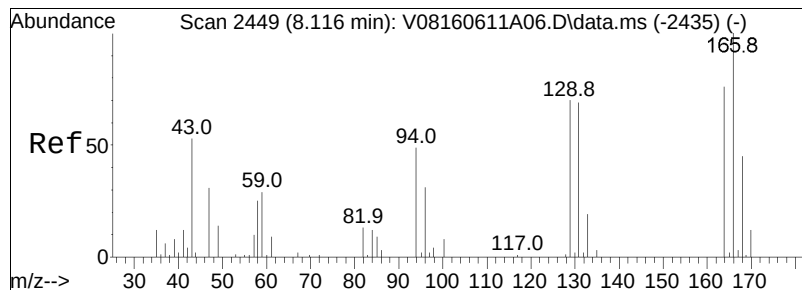




#61
 Toluene
 Concen: 13.36 ug/L
 RT: 7.648 min Scan# 2281
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt Ion:	92	Resp:	189487
Ion Ratio	Lower	Upper	
92	100		
91	168.8	132.6	198.8





#62

4-Methyl-2-pentanone

Concen: 8.69 ug/L

RT: 8.097 min Scan# 2442

Delta R.T. -0.008 min

Lab File: V08161005A15.D

Acq: 5 Oct 2016 3:59 pm

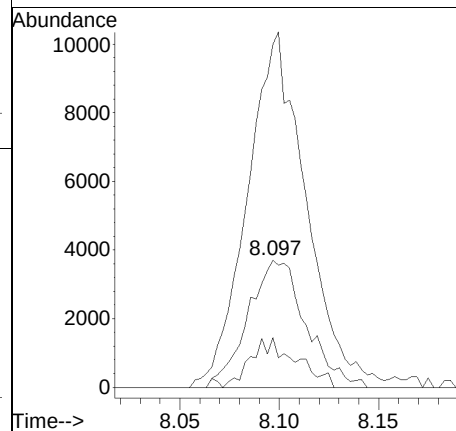
Tgt Ion: 58 Resp: 7508

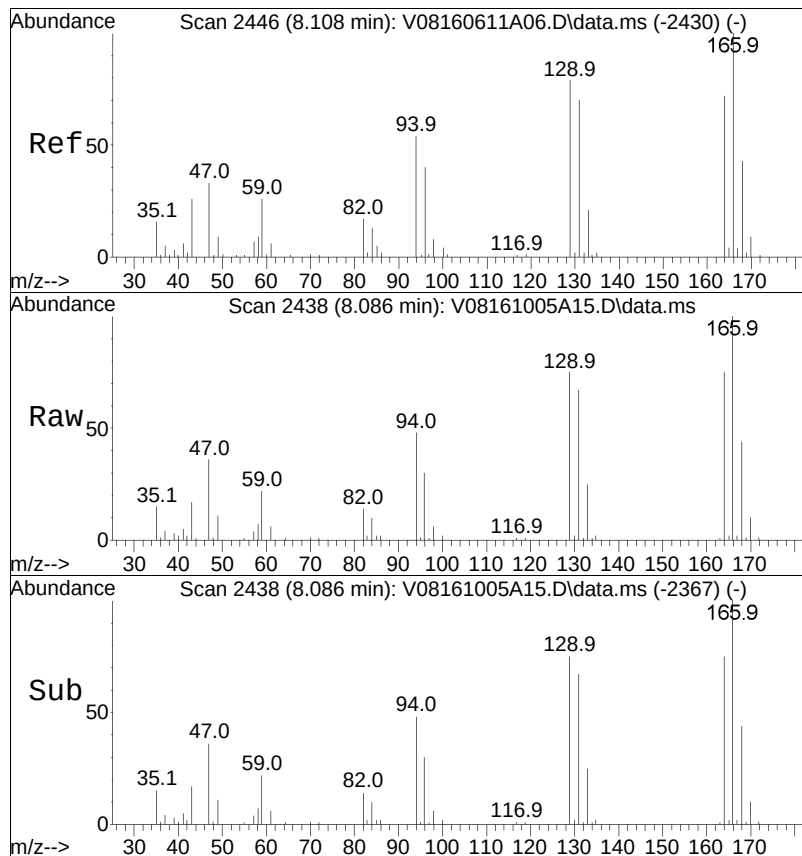
Ion Ratio Lower Upper

58 100

100 30.4 21.5 32.3

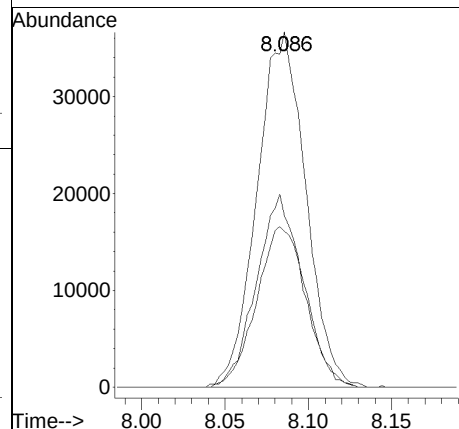
43 283.6 204.0 306.0

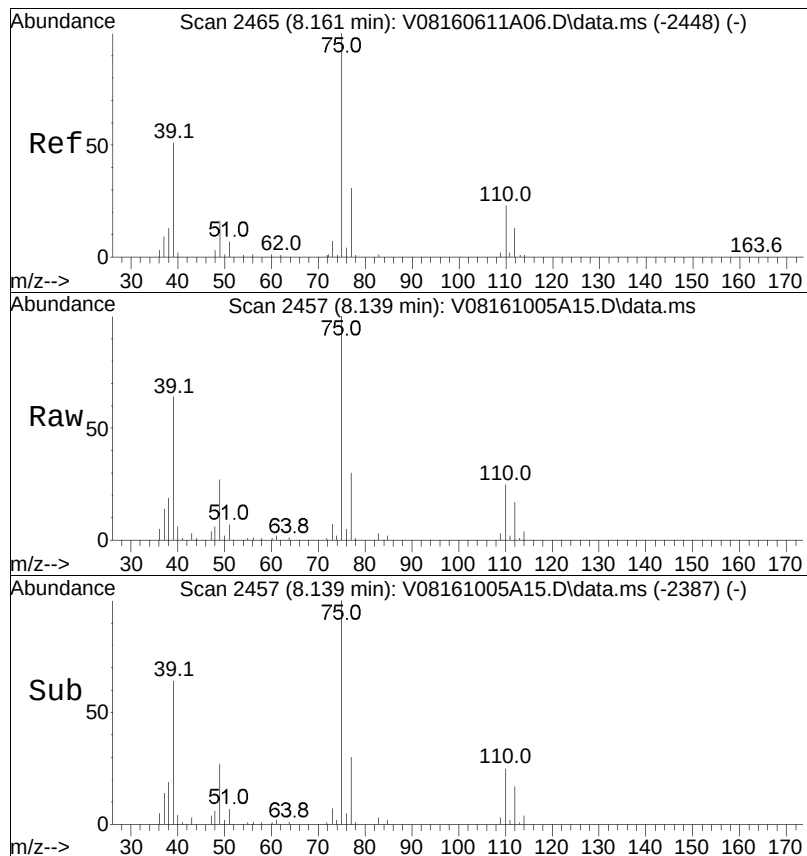




#63
 Tetrachloroethene
 Concen: 12.58 ug/L
 RT: 8.086 min Scan# 2438
 Delta R.T. -0.002 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

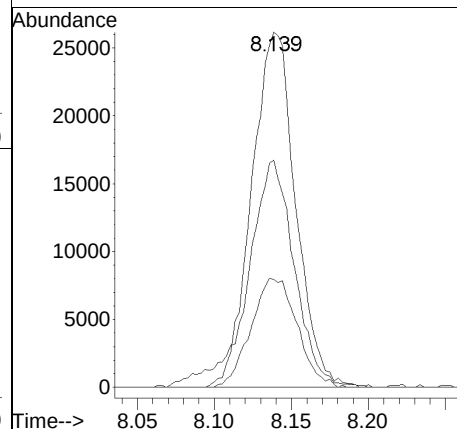
Tgt Ion:	166	Resp:	74575
Ion Ratio	Lower	Upper	
166	100		
168	46.5	28.7	68.7
94	51.3	32.1	72.1

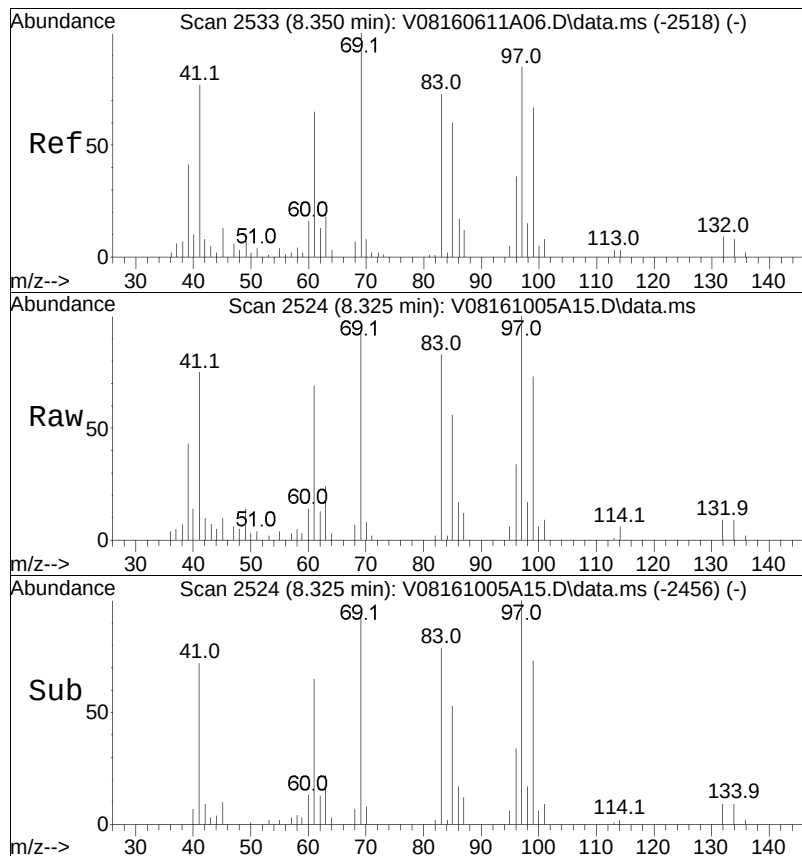




#65
trans-1,3-Dichloropropene
Concen: 10.92 ug/L
RT: 8.139 min Scan# 2457
Delta R.T. -0.005 min
Lab File: V08161005A15.D
Acq: 5 Oct 2016 3:59 pm

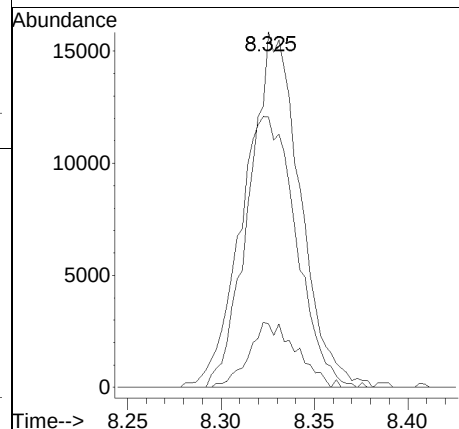
Tgt Ion:	75	Resp:	51940
Ion Ratio	Lower	Upper	
75	100		
77	32.2	12.1	52.1
39	67.9	45.2	85.2

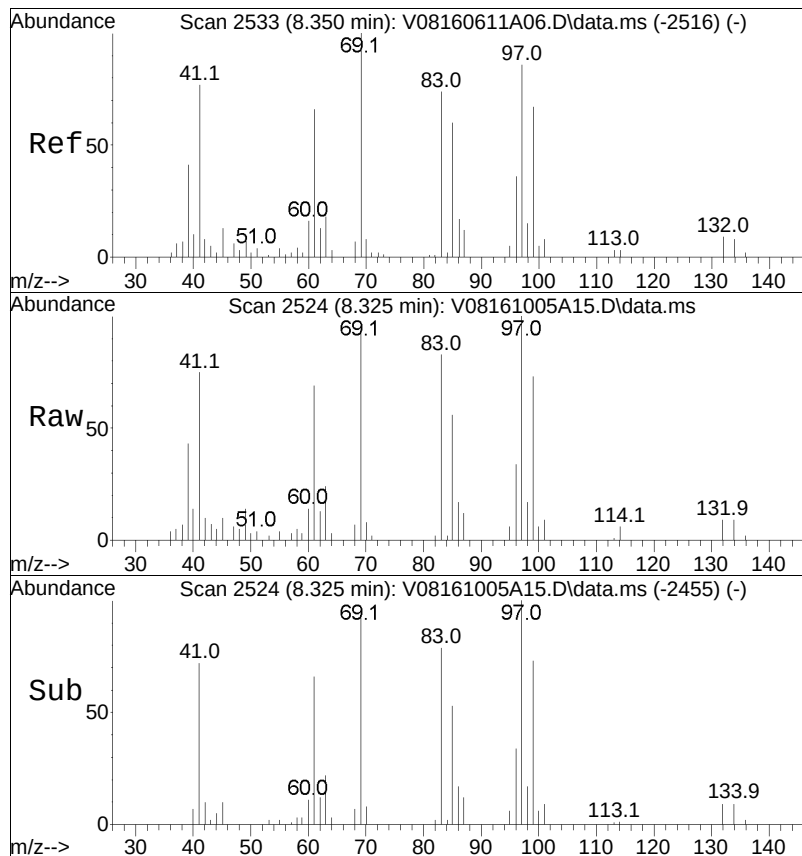




#67
 Ethyl methacrylate
 Concen: 9.22 ug/L
 RT: 8.325 min Scan# 2524
 Delta R.T. -0.011 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

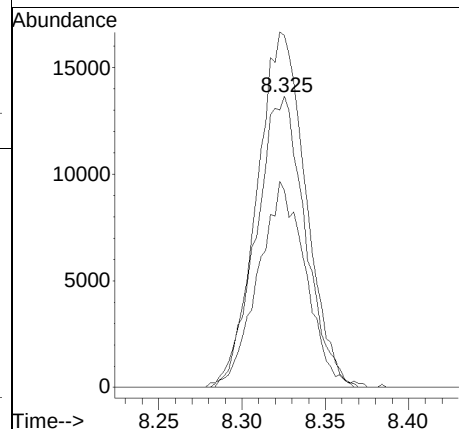
Tgt Ion	Ratio	Lower	Upper
69	100		
99	87.5	55.8	95.8
86	17.2	0.0	36.2

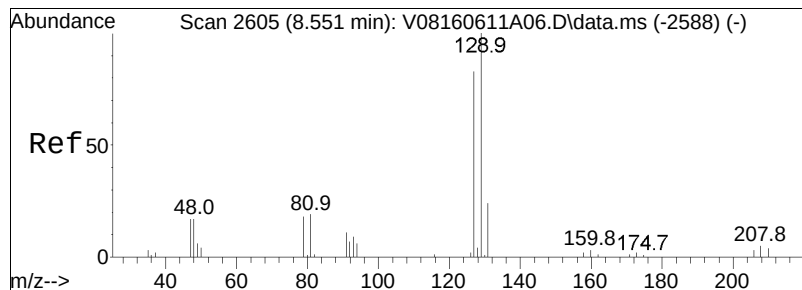




#68
 1,1,2-Trichloroethane
 Concen: 12.42 ug/L
 RT: 8.325 min Scan# 2524
 Delta R.T. -0.009 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

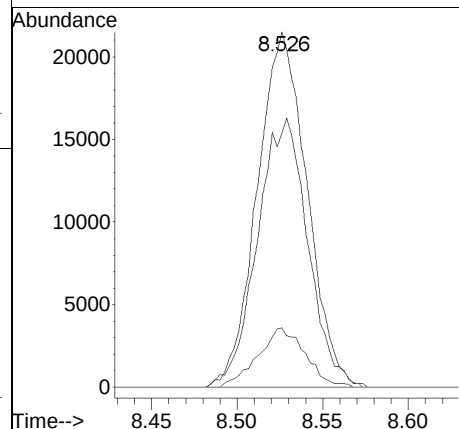
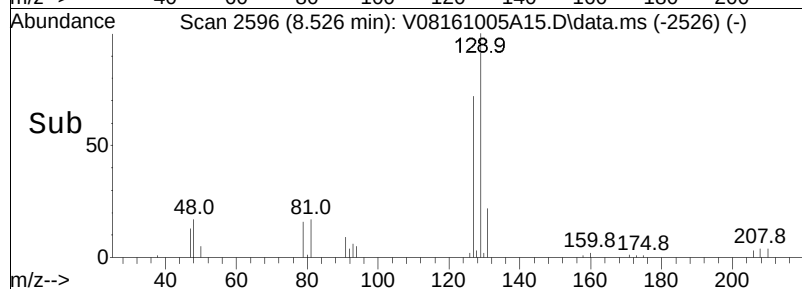
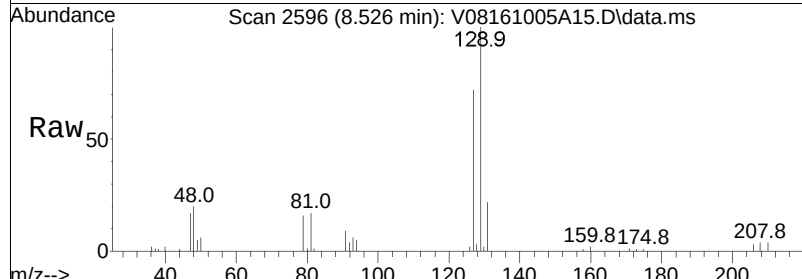
Tgt Ion	83	Resp	27902
Ion Ratio	Lower	Upper	
83	100		
97	121.9	98.1	138.1
85	68.2	46.0	86.0

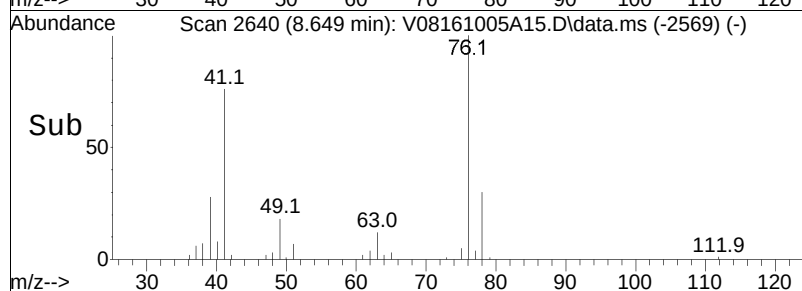
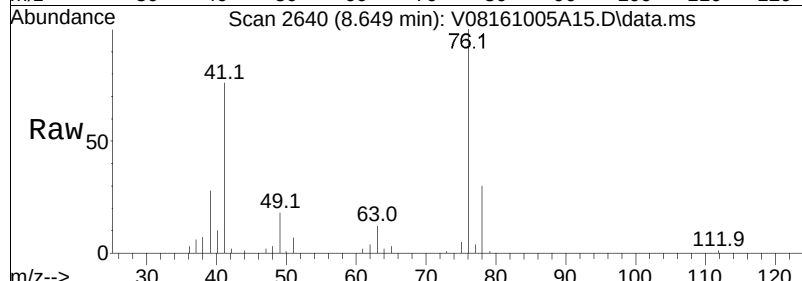
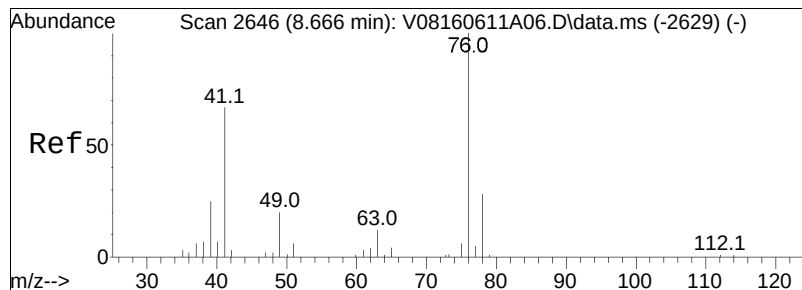




#69
 Chlorodibromomethane
 Concen: 12.53 ug/L
 RT: 8.526 min Scan# 2596
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt Ion	Ratio	Lower	Upper
129	100		
81	16.0	0.0	37.5
127	76.7	56.3	96.3





#70

1,3-Dichloropropane

Concen: 12.12 ug/L

RT: 8.649 min Scan# 2640

Delta R.T. -0.003 min

Lab File: V08161005A15.D

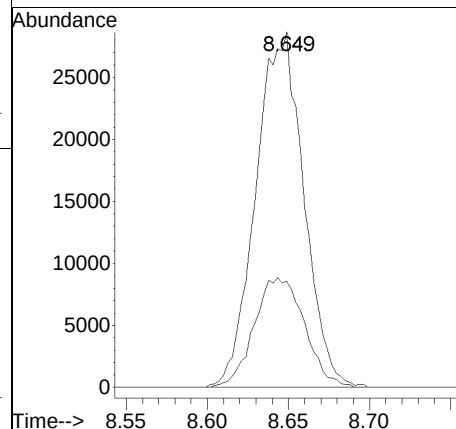
Acq: 5 Oct 2016 3:59 pm

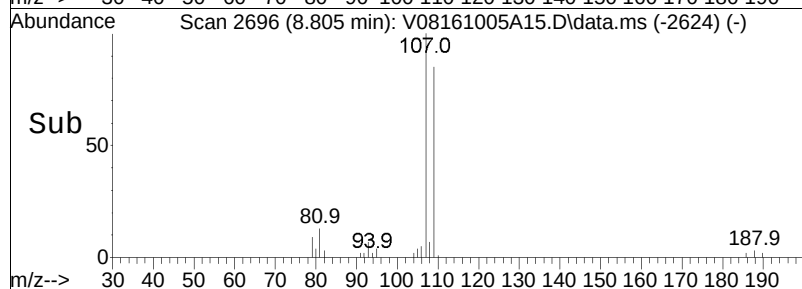
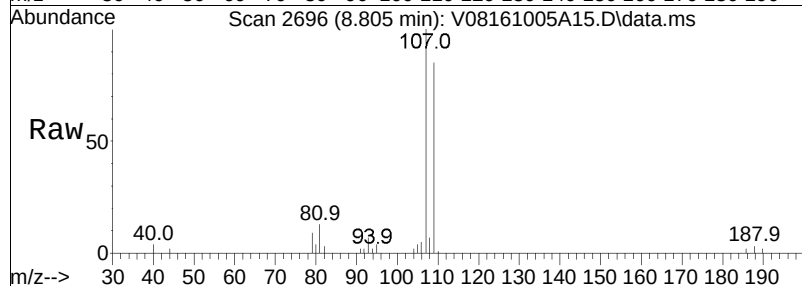
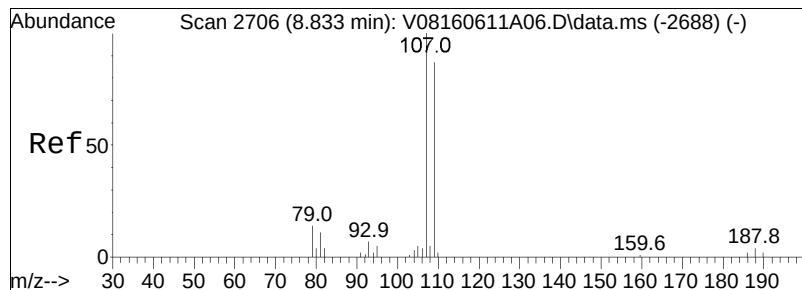
Tgt Ion: 76 Resp: 58813

Ion Ratio Lower Upper

76 100

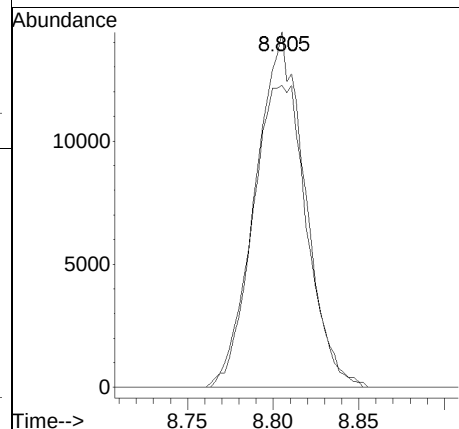
78 32.5 25.9 38.9

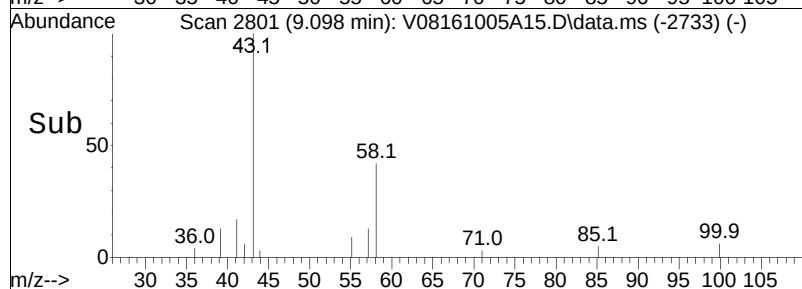
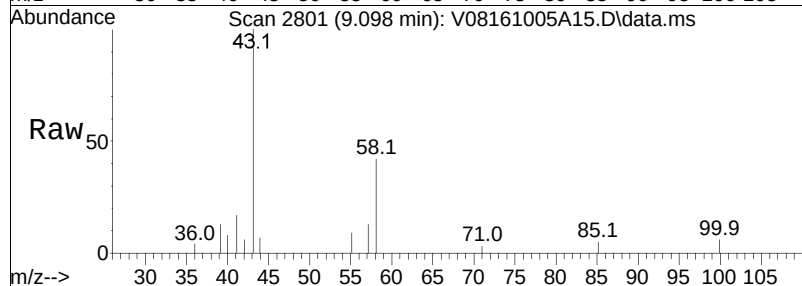
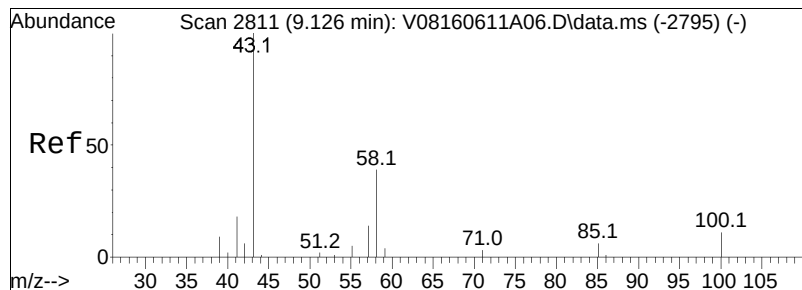




#71
 1,2-Dibromoethane
 Concen: 11.88 ug/L
 RT: 8.805 min Scan# 2696
 Delta R.T. 0.000 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.5	78.1	117.1





#72

2-Hexanone

Concen: 8.43 ug/L

RT: 9.098 min Scan# 2801

Delta R.T. -0.011 min

Lab File: V08161005A15.D

Acq: 5 Oct 2016 3:59 pm

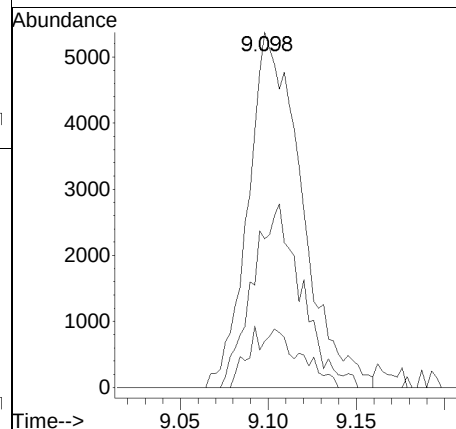
Tgt Ion: 43 Resp: 11350

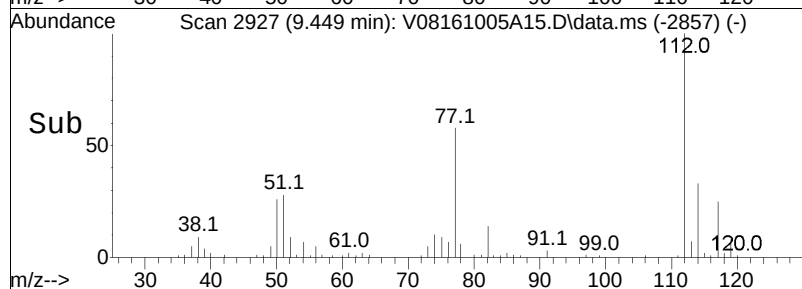
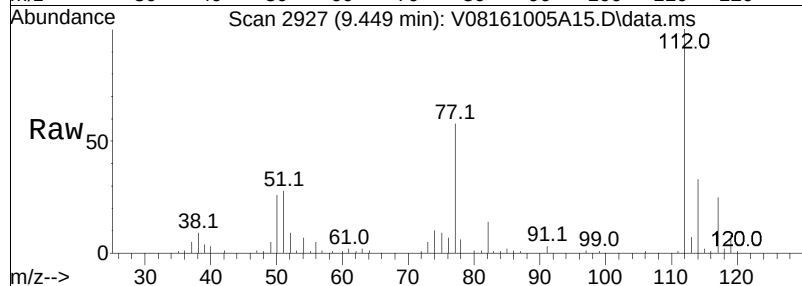
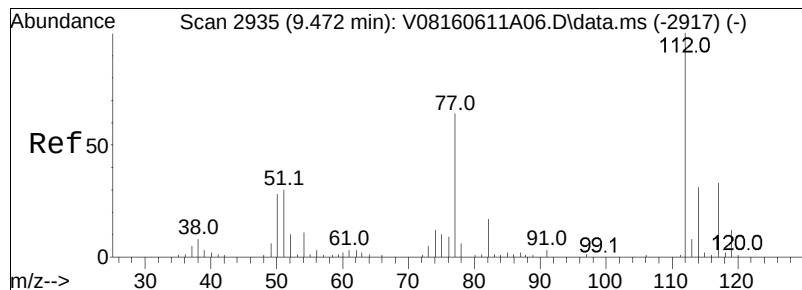
Ion Ratio Lower Upper

43 100

58 47.2 40.6 60.8

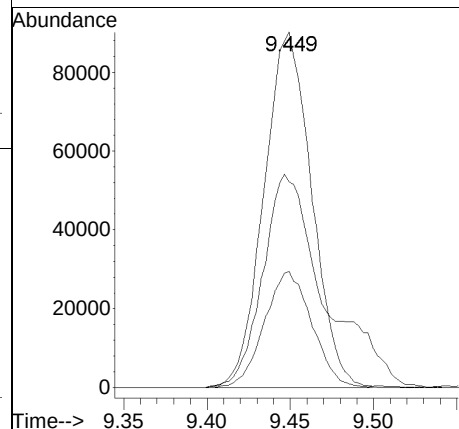
57 9.9 14.7 22.1#

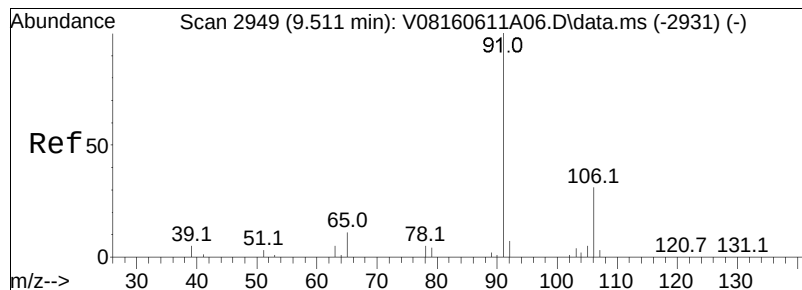




#73
 Chlorobenzene
 Concen: 12.20 ug/L
 RT: 9.449 min Scan# 2927
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt	Ion:112	Resp:	179544
Ion	Ratio	Lower	Upper
112	100		
77	77.8	61.0	91.6
114	32.4	25.5	38.3





#74

Ethylbenzene

Concen: 13.23 ug/L

RT: 9.485 min Scan# 2940

Delta R.T. -0.009 min

Lab File: V08161005A15.D

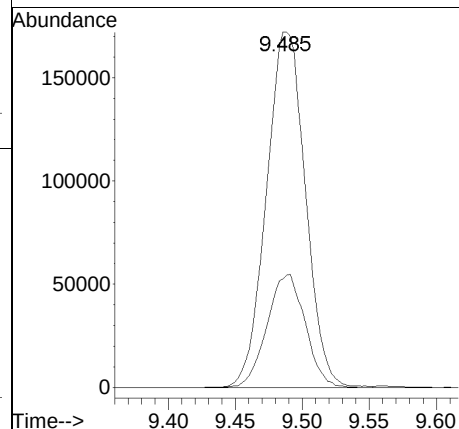
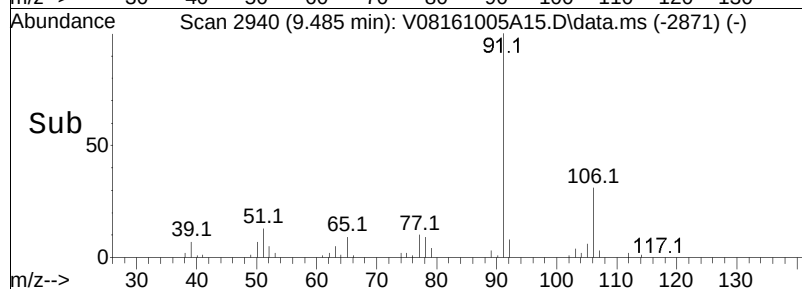
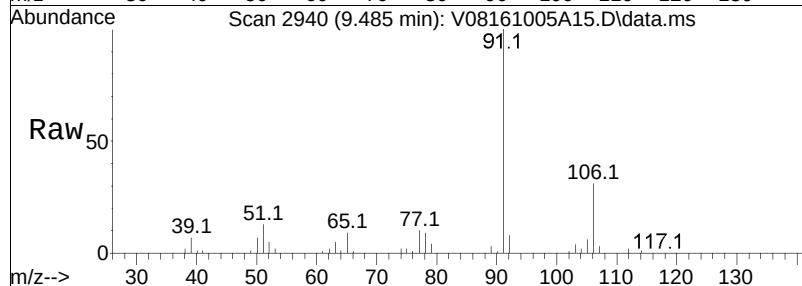
Acq: 5 Oct 2016 3:59 pm

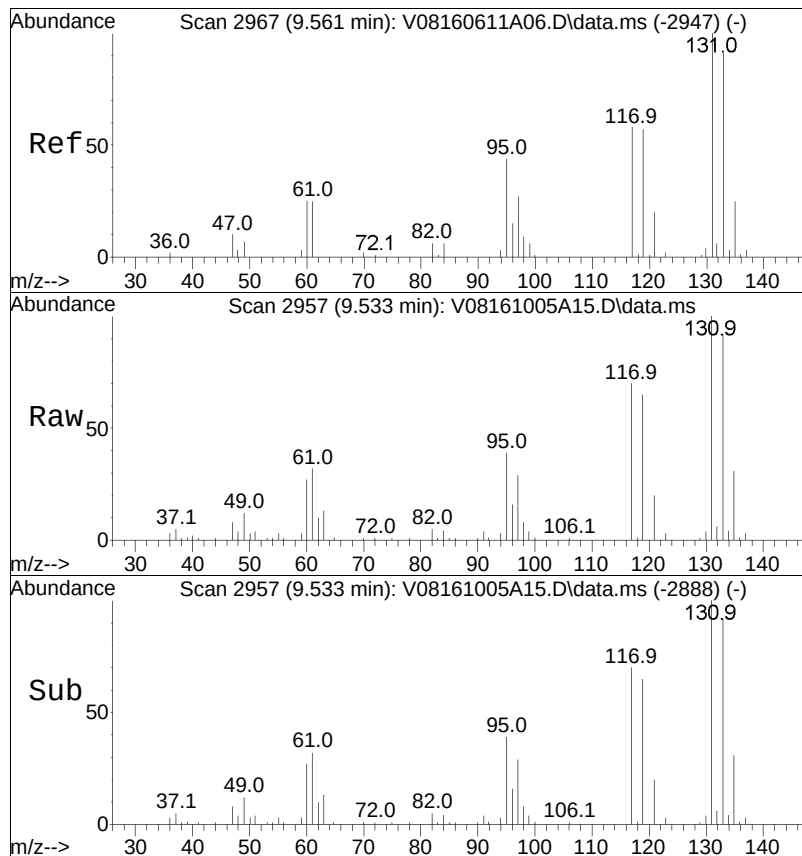
Tgt Ion: 91 Resp: 348421

Ion Ratio Lower Upper

91 100

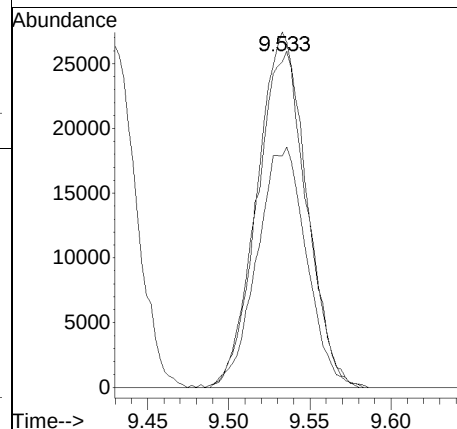
106 31.1 24.2 36.2

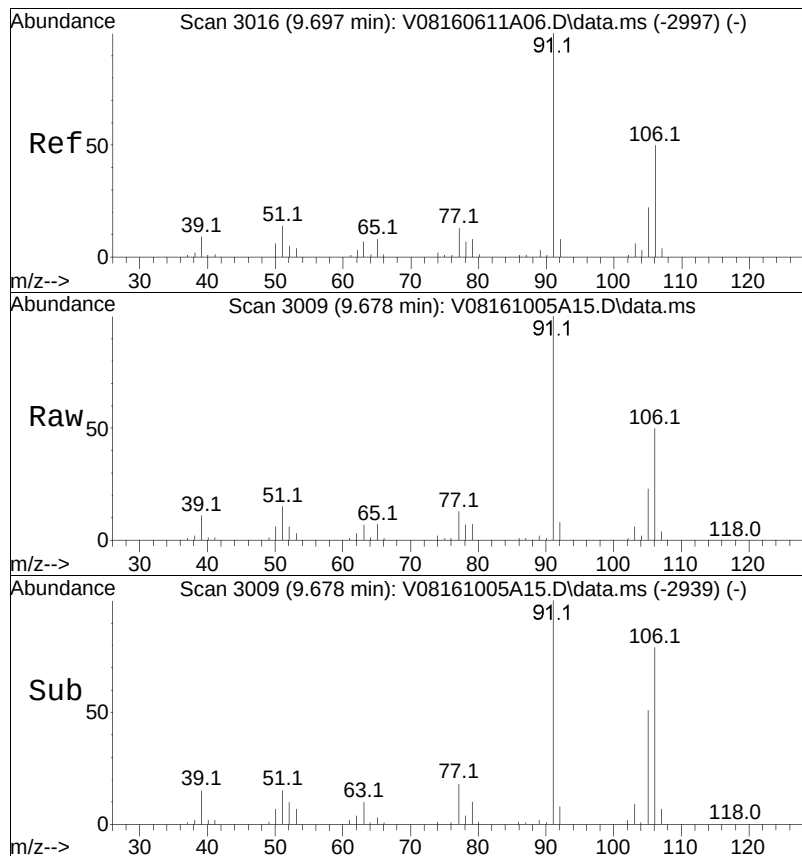




#75
 1,1,1,2-Tetrachloroethane
 Concen: 12.30 ug/L
 RT: 9.533 min Scan# 2957
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

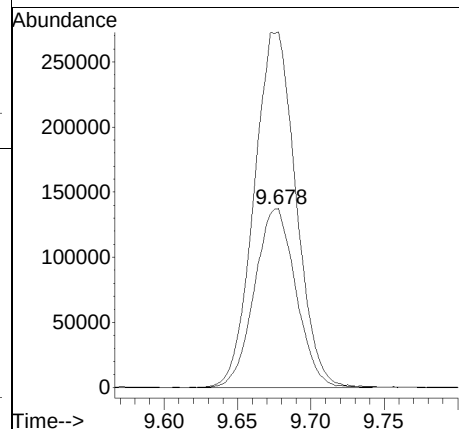
Tgt Ion:	131	Resp:	58472
Ion Ratio	Lower	Upper	
131	100		
133	94.4	76.8	116.8
119	67.3	44.9	84.9

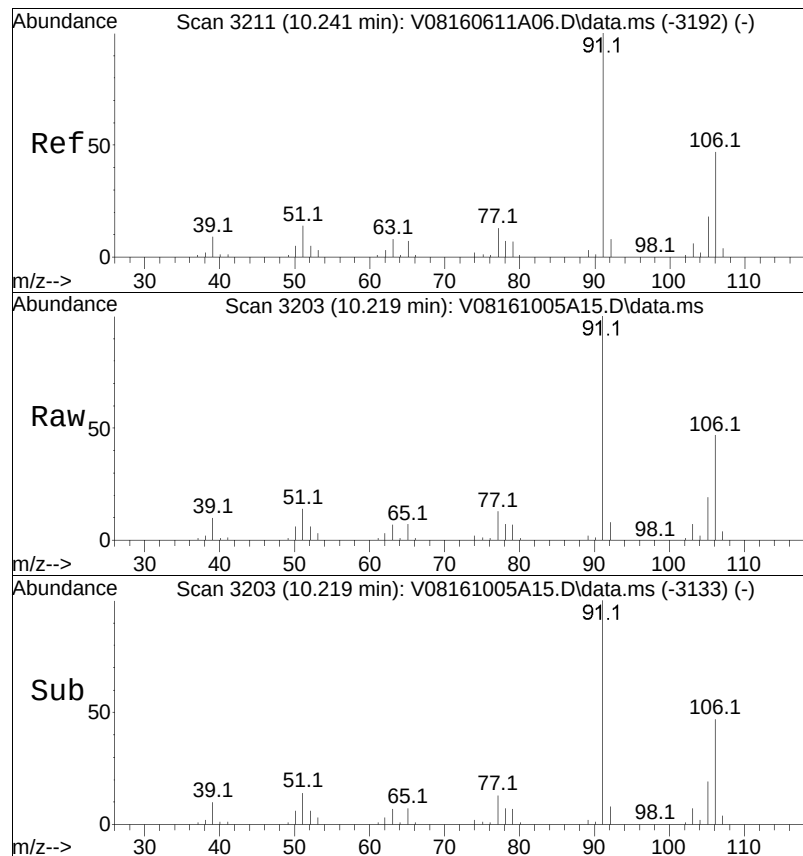




#76
 p/m Xylene
 Concen: 25.91 ug/L
 RT: 9.678 min Scan# 3009
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

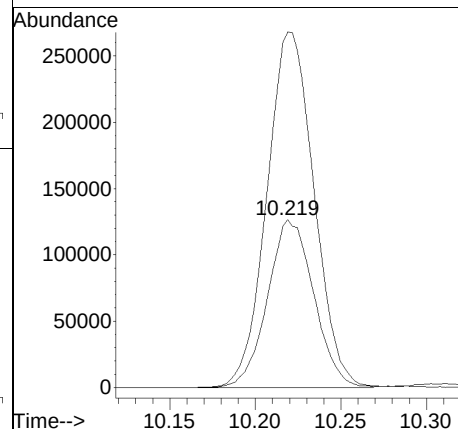
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	200.8	167.8	251.6	

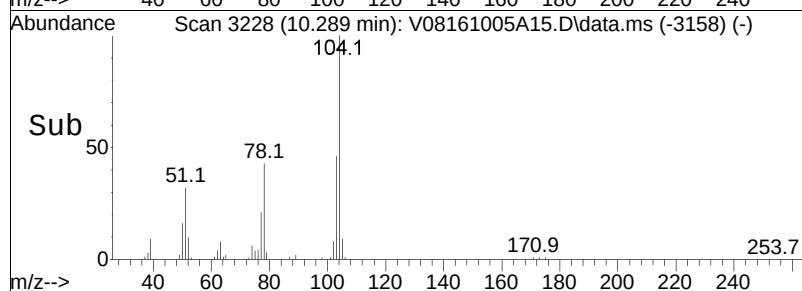
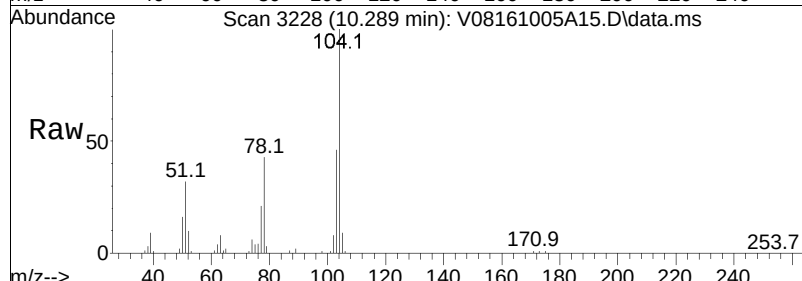
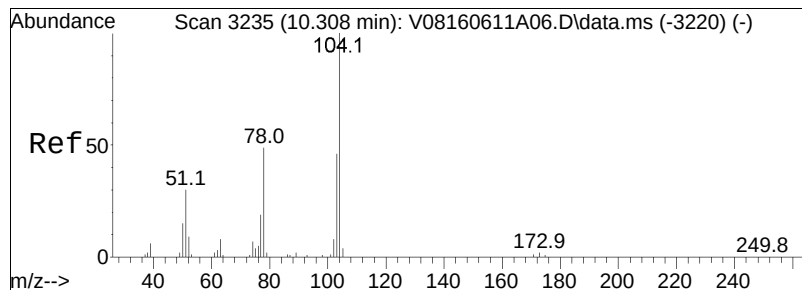




#77
 o Xylene
 Concen: 25.34 ug/L
 RT: 10.219 min Scan# 3203
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt	Ion	Ratio	Lower	Upper
106	106	100		
91	216.5	176.2	264.4	





#78

Styrene

Concen: 25.60 ug/L

RT: 10.289 min Scan# 3228

Delta R.T. -0.005 min

Lab File: V08161005A15.D

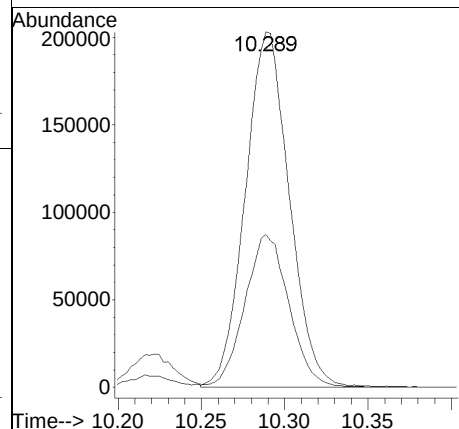
Acq: 5 Oct 2016 3:59 pm

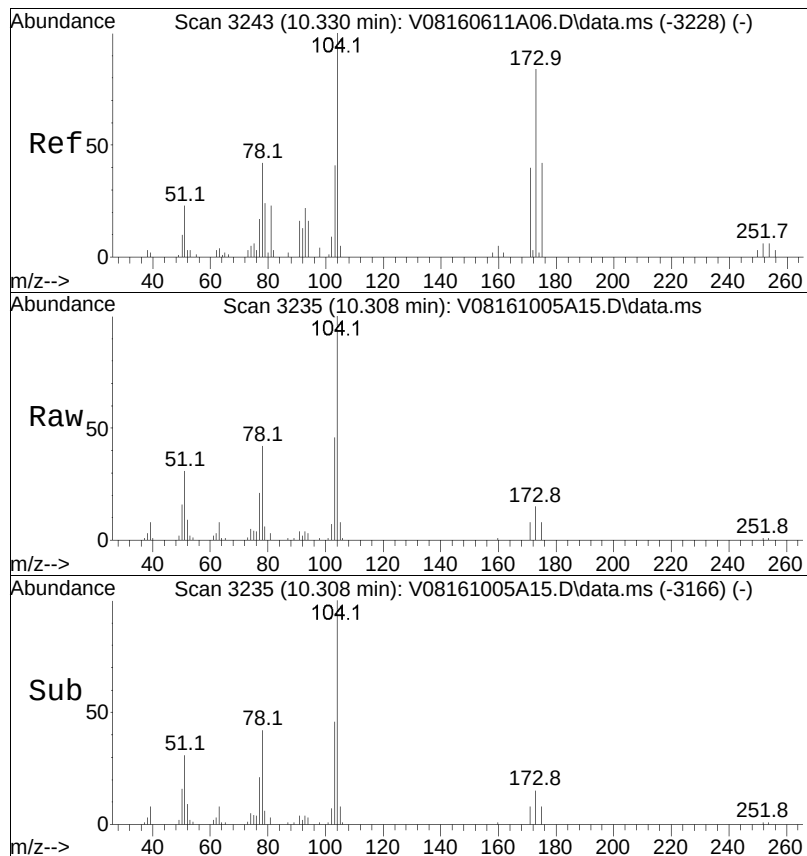
Tgt Ion:104 Resp: 372729

Ion Ratio Lower Upper

104 100

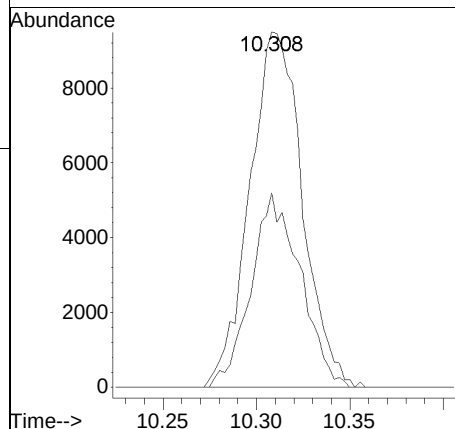
78 42.9 36.0 54.0

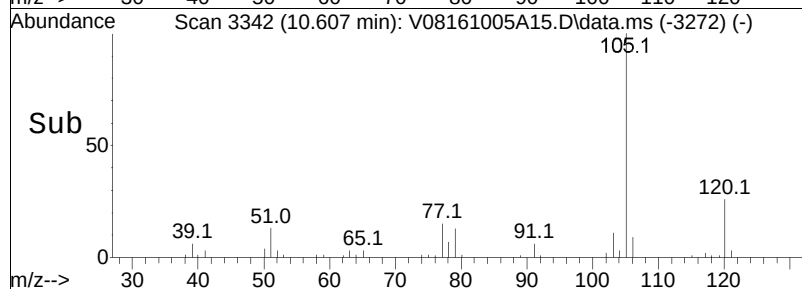
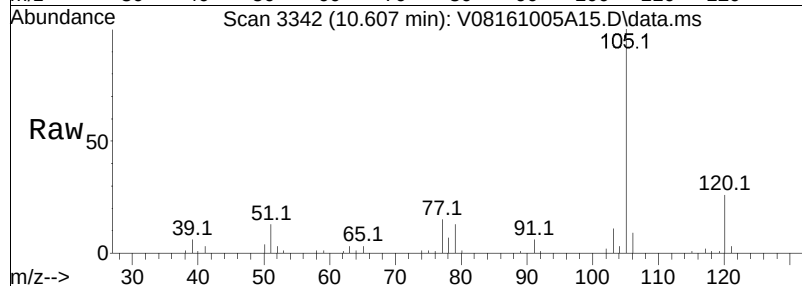
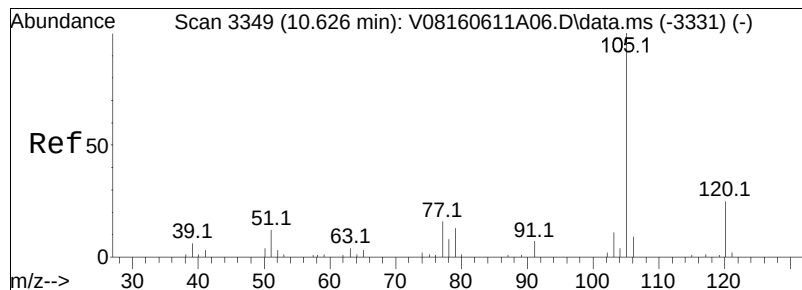




#80
 Bromoform
 Concen: 12.31 ug/L
 RT: 10.308 min Scan# 3235
 Delta R.T. -0.008 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.9	27.7	67.7





#82

Isopropylbenzene

Concen: 13.13 ug/L

RT: 10.607 min Scan# 3342

Delta R.T. -0.005 min

Lab File: V08161005A15.D

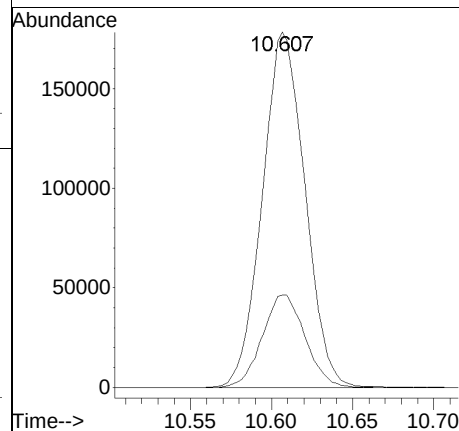
Acq: 5 Oct 2016 3:59 pm

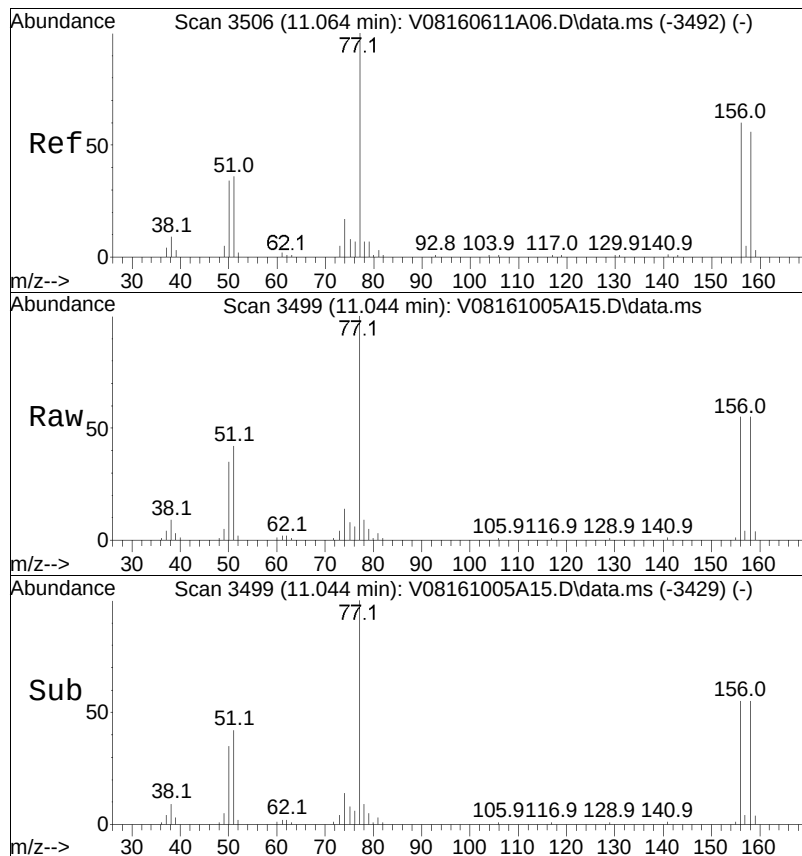
Tgt Ion:105 Resp: 325133

Ion Ratio Lower Upper

105 100

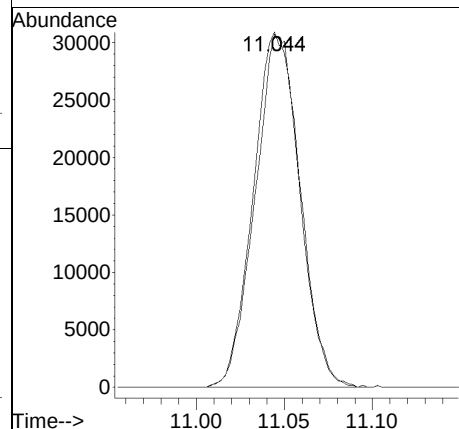
120 26.1 6.7 46.7

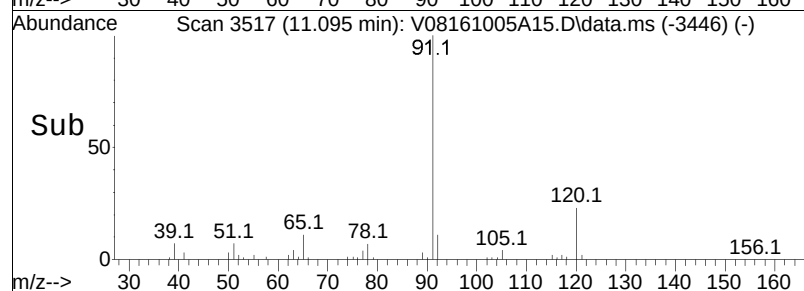
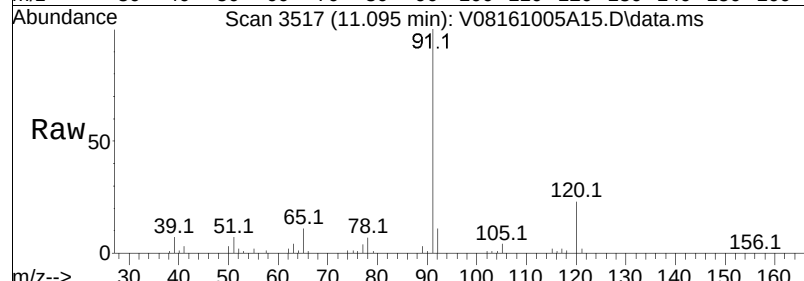
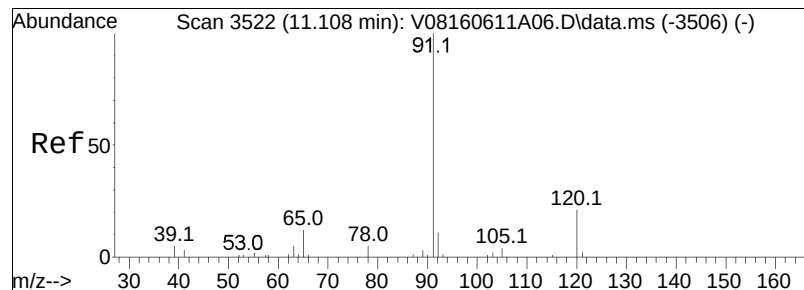




#84
 Bromobenzene
 Concen: 12.28 ug/L
 RT: 11.044 min Scan# 3499
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

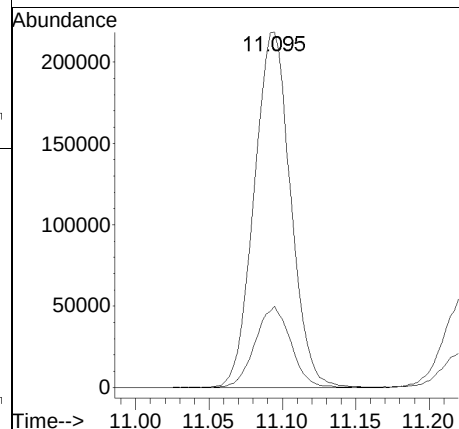
Tgt Ion	Ratio	Lower	Upper
156	100		
158	95.0	78.0	117.0

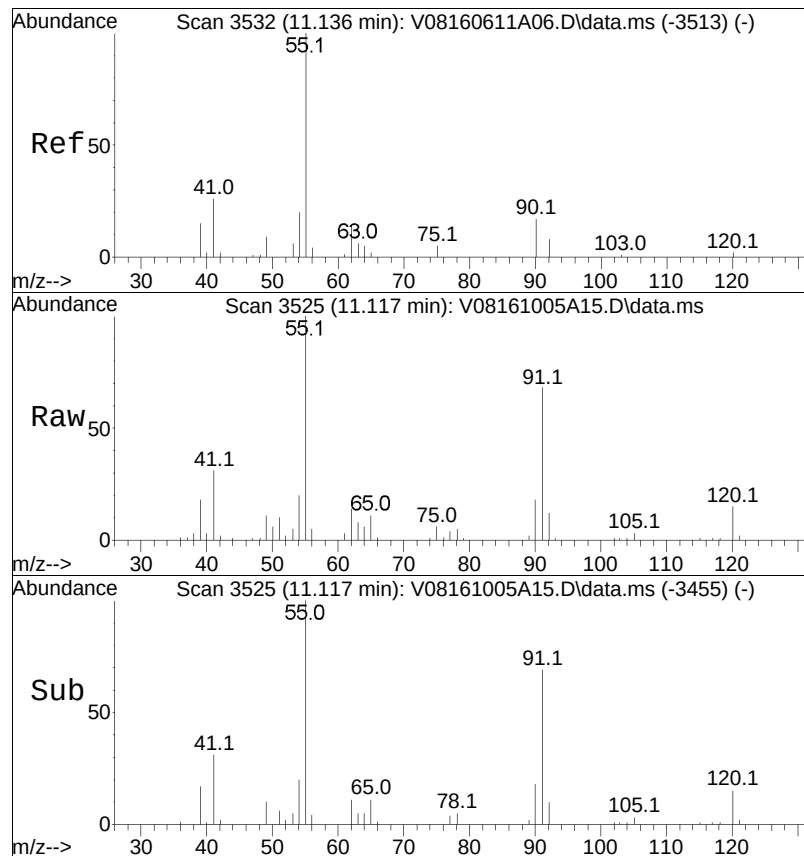




#85
 n-Propylbenzene
 Concen: 13.38 ug/L
 RT: 11.095 min Scan# 3517
 Delta R.T. -0.002 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

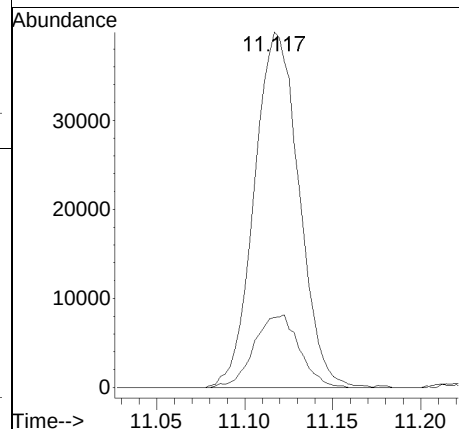
Tgt Ion:	91	120	Resp:	376935
Ion Ratio	100	22.2	Lower	Upper
			17.2	25.8

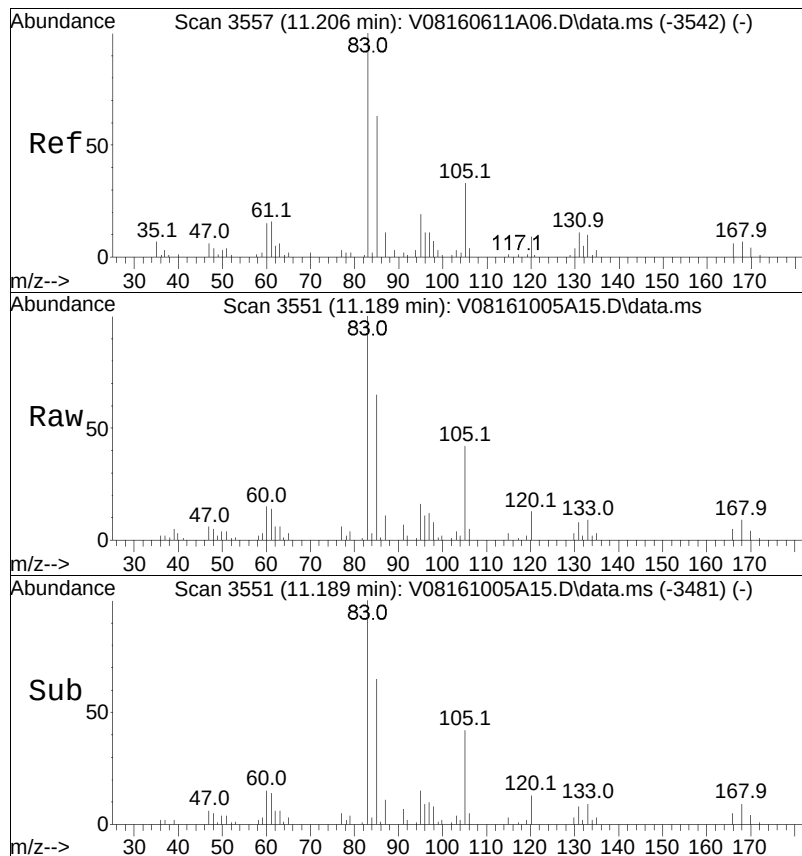




#86
 1,4-Dichlorobutane
 Concen: 12.91 ug/L
 RT: 11.117 min Scan# 3525
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

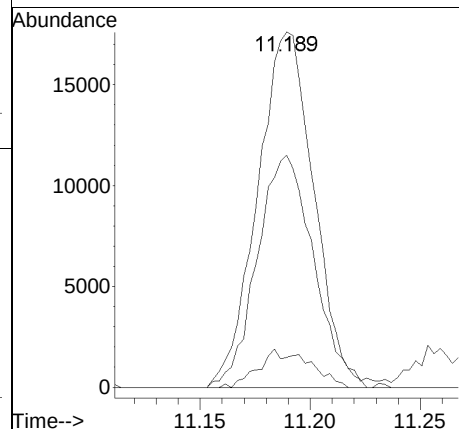
Tgt Ion	Ratio	Lower	Upper
55	100		
54	20.6	15.8	23.8

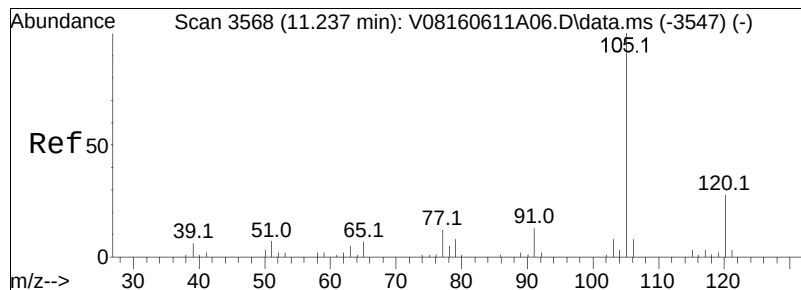




#87
 1,1,2,2-Tetrachloroethane
 Concen: 12.74 ug/L
 RT: 11.189 min Scan# 3551
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt Ion:	83	Resp:	31217
Ion Ratio	Lower	Upper	
83	100		
131	5.3	0.0	28.9
85	66.1	47.6	87.6





#88

4-Ethyltoluene

Concen: 13.63 ug/L

RT: 11.223 min Scan# 3563

Delta R.T. -0.002 min

Lab File: V08161005A15.D

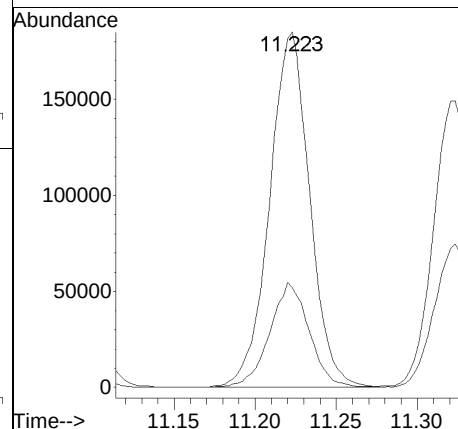
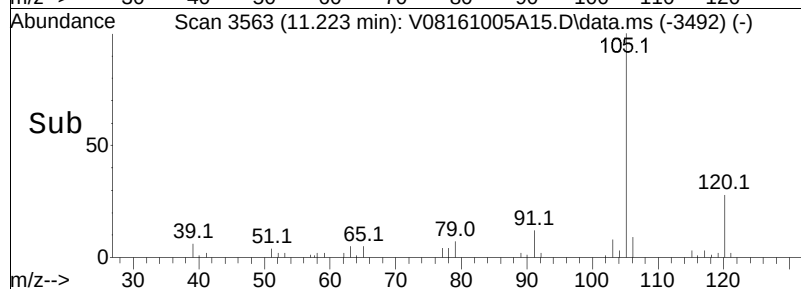
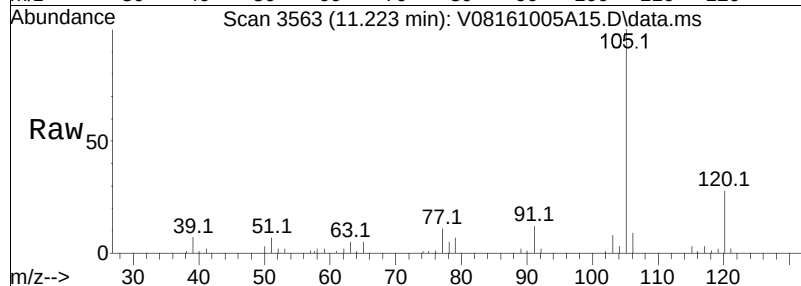
Acq: 5 Oct 2016 3:59 pm

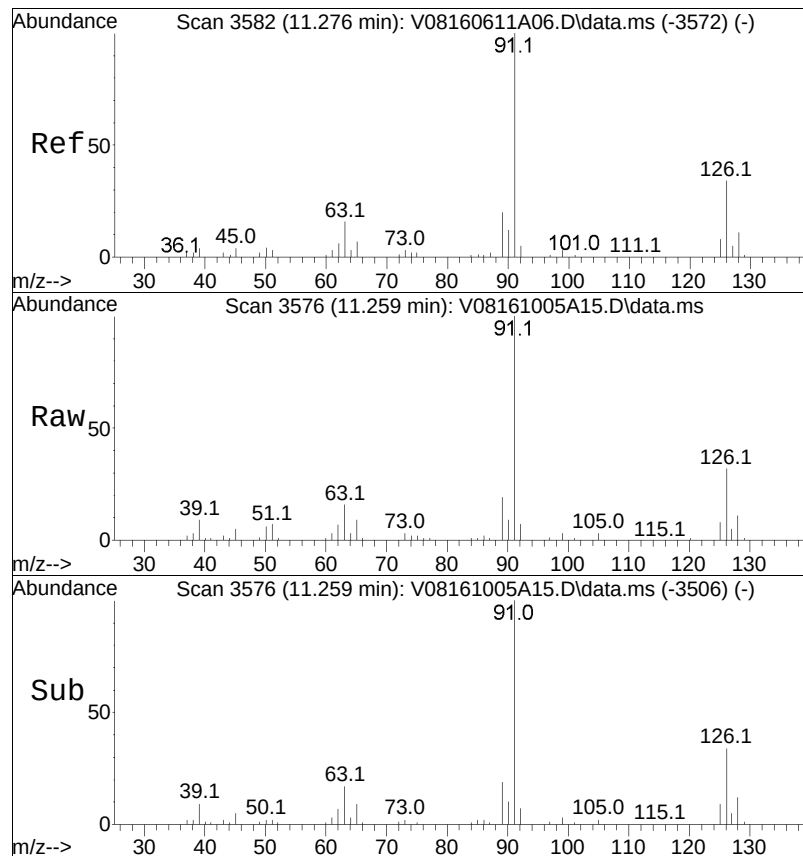
Tgt Ion:105 Resp: 318346

Ion Ratio Lower Upper

105 100

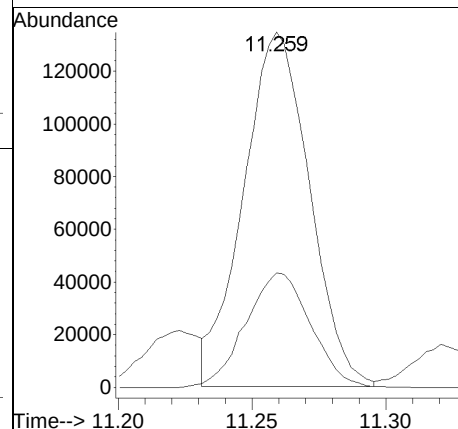
120 29.0 19.4 40.4

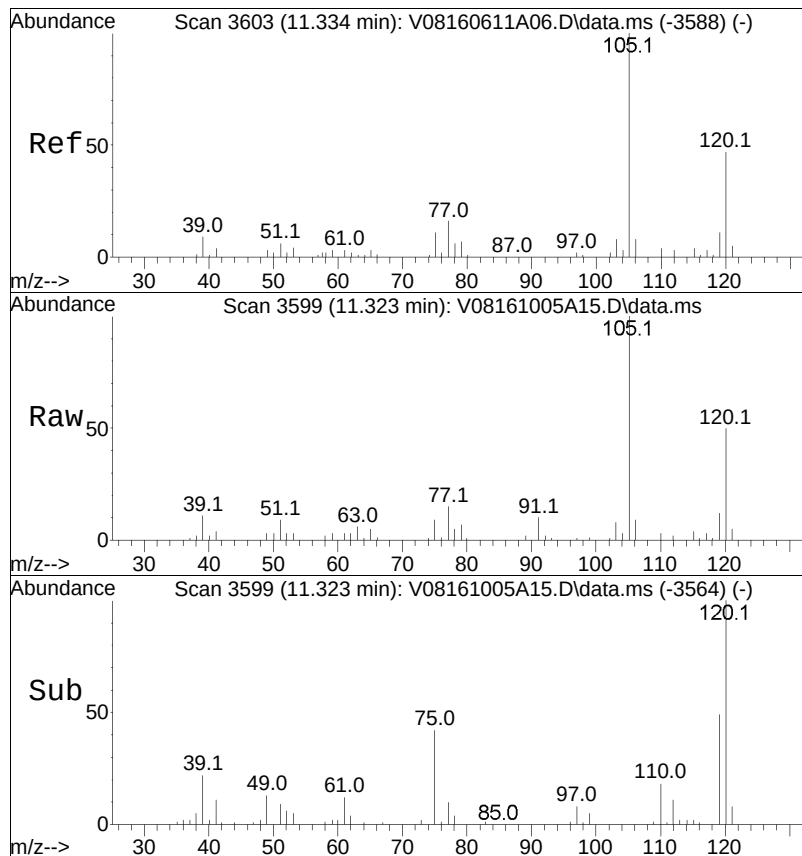




#89
 2-Chlorotoluene
 Concen: 13.68 ug/L
 RT: 11.259 min Scan# 3576
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

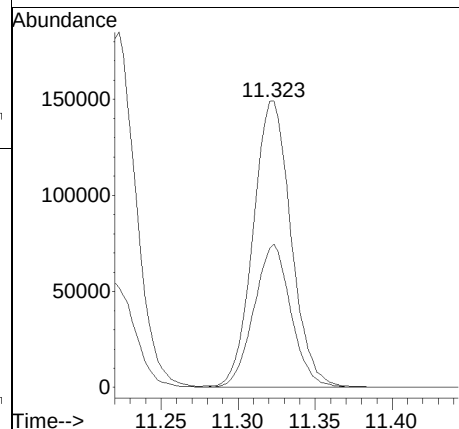
Tgt Ion:	91	Resp:	231084
Ion Ratio	100	Lower	Upper
126	31.7	25.3	37.9

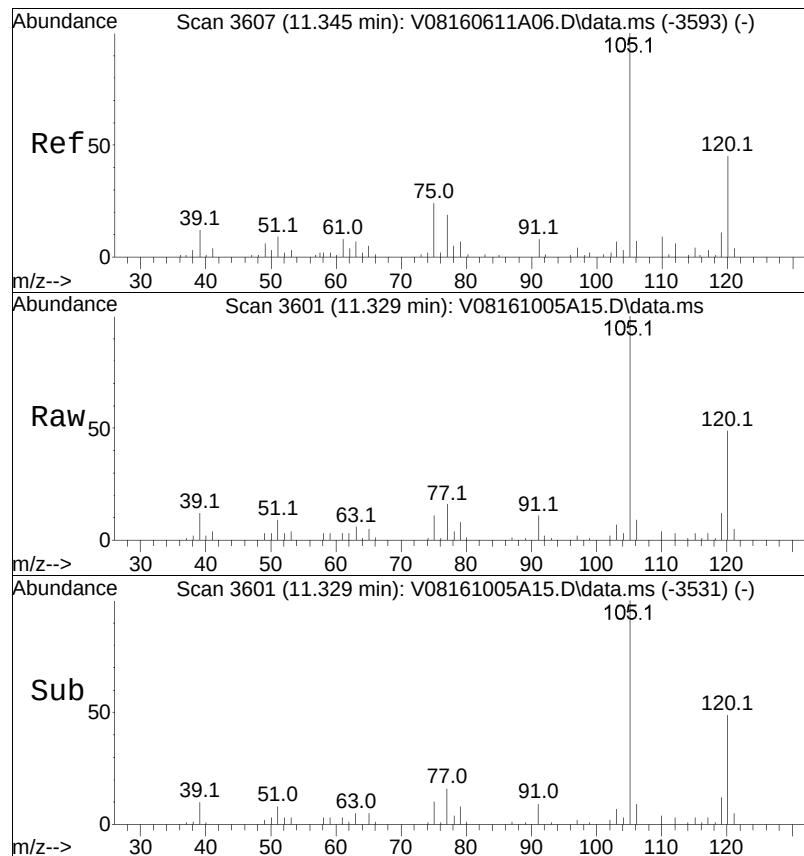




#90
 1,3,5-Trimethylbenzene
 Concen: 13.39 ug/L
 RT: 11.323 min Scan# 3599
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

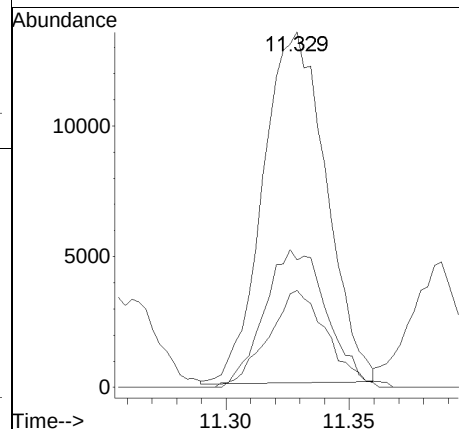
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	48.9	28.0	42.0	#

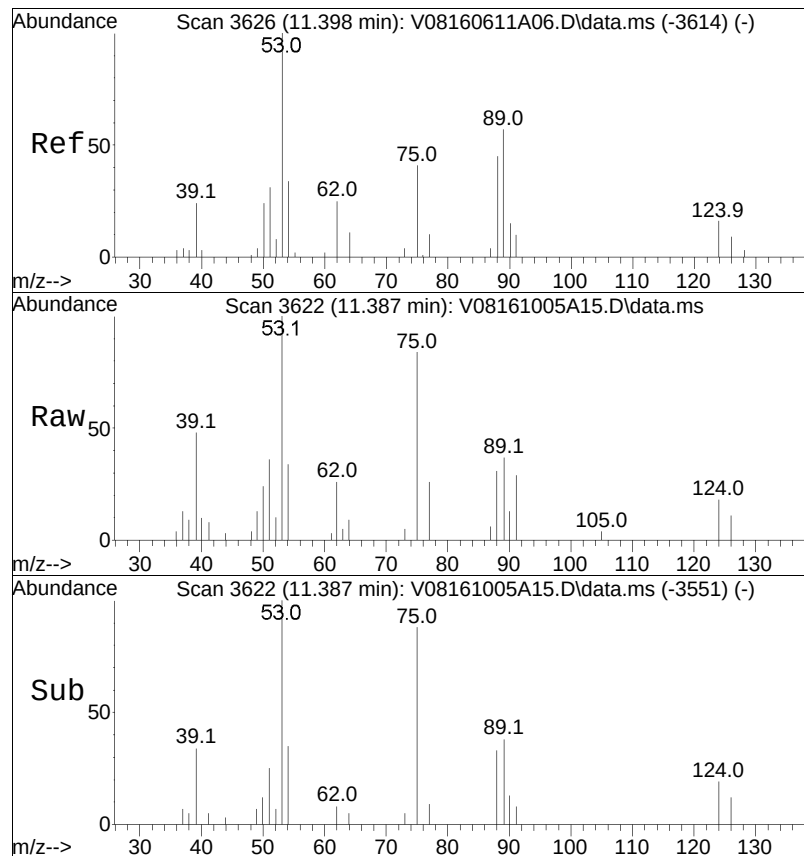




#91
 1,2,3-Trichloropropane
 Concen: 11.92 ug/L
 RT: 11.329 min Scan# 3601
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

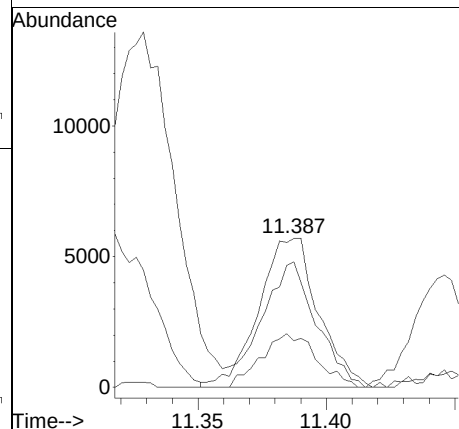
Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.1	23.5	48.7
112	25.7	15.2	31.6

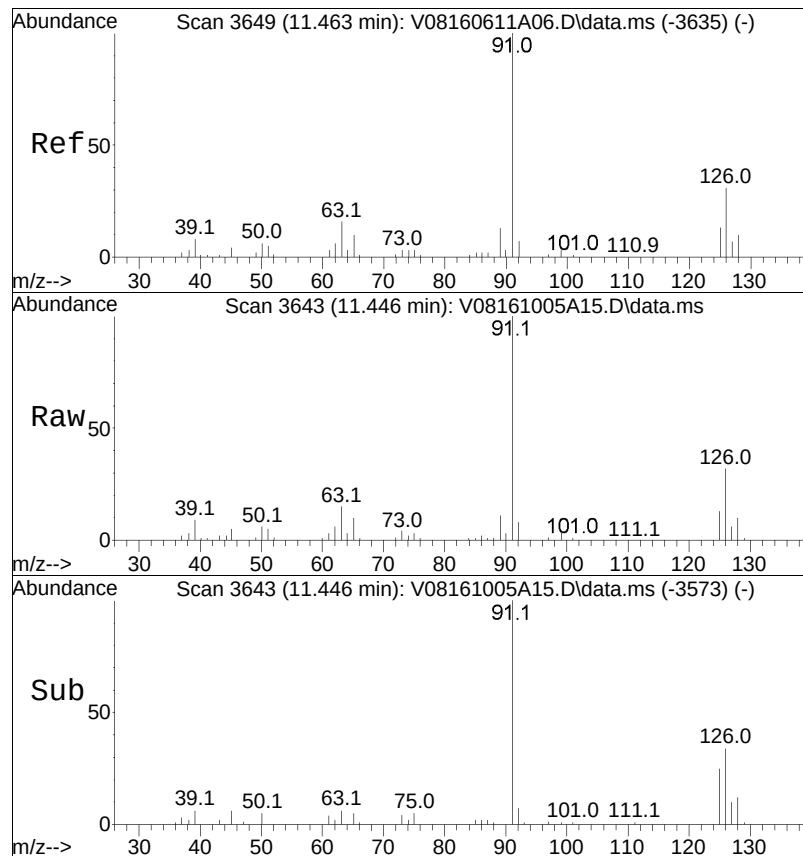




#92
 trans-1,4-Dichloro-2-butene
 Concen: 11.52 ug/L
 RT: 11.387 min Scan# 3622
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

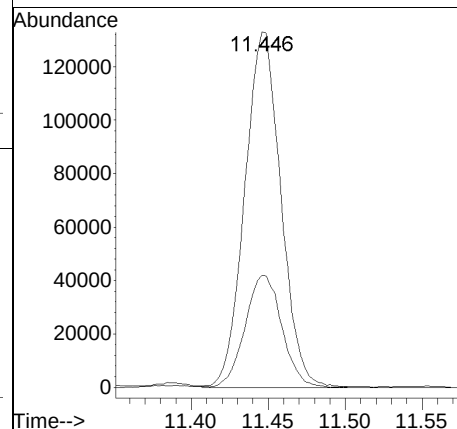
Tgt Ion	Ratio	Lower	Upper
53	100		
88	33.5	25.7	38.5
75	75.7	63.8	95.8

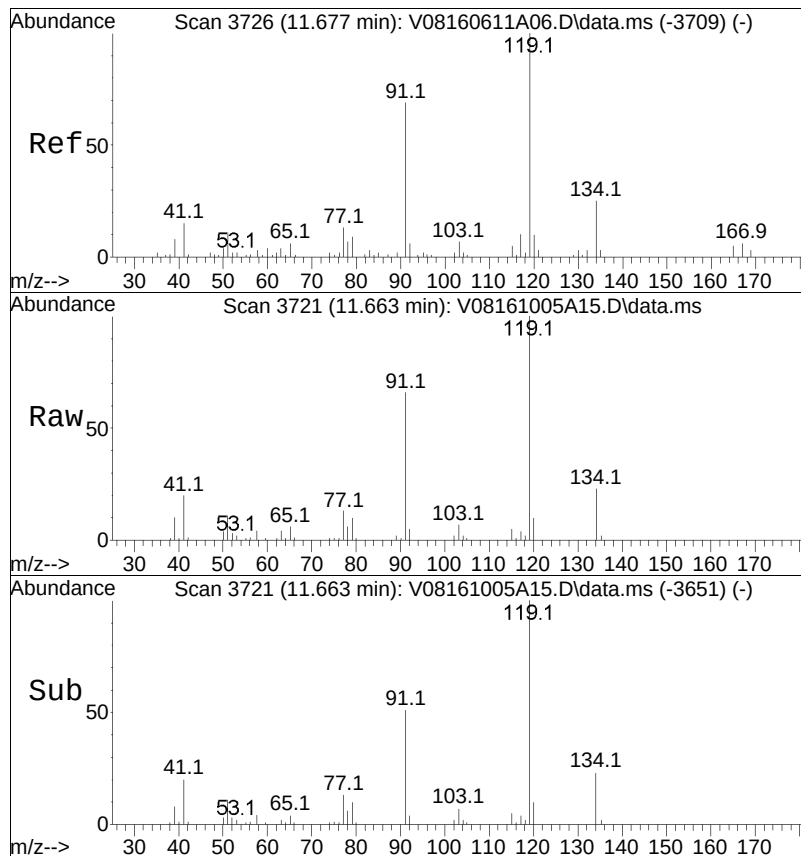




#93
 4-Chlorotoluene
 Concen: 13.52 ug/L
 RT: 11.446 min Scan# 3643
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

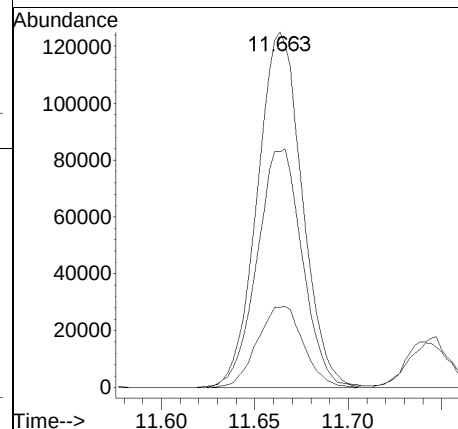
Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.0	0.0	0.0#

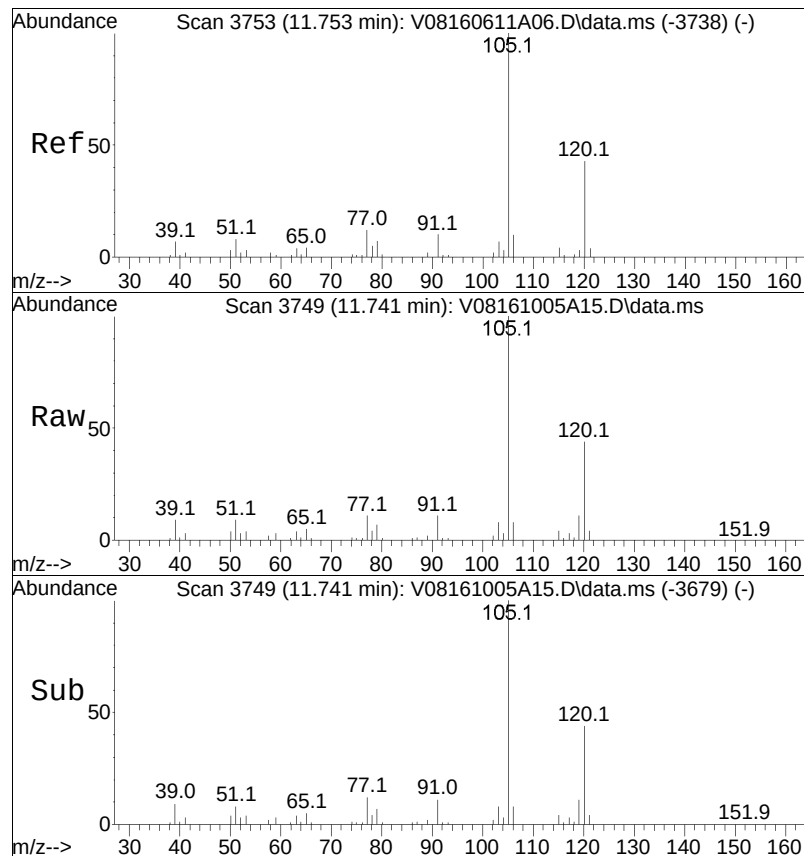




#94
 tert-Butylbenzene
 Concen: 11.32 ug/L
 RT: 11.663 min Scan# 3721
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

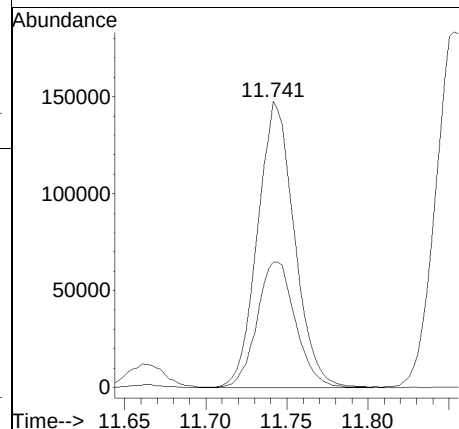
Tgt	Ion:119	Resp:	208868
Ion	Ratio	Lower	Upper
119	100		
91	67.8	47.2	70.8
134	23.4	18.2	27.4

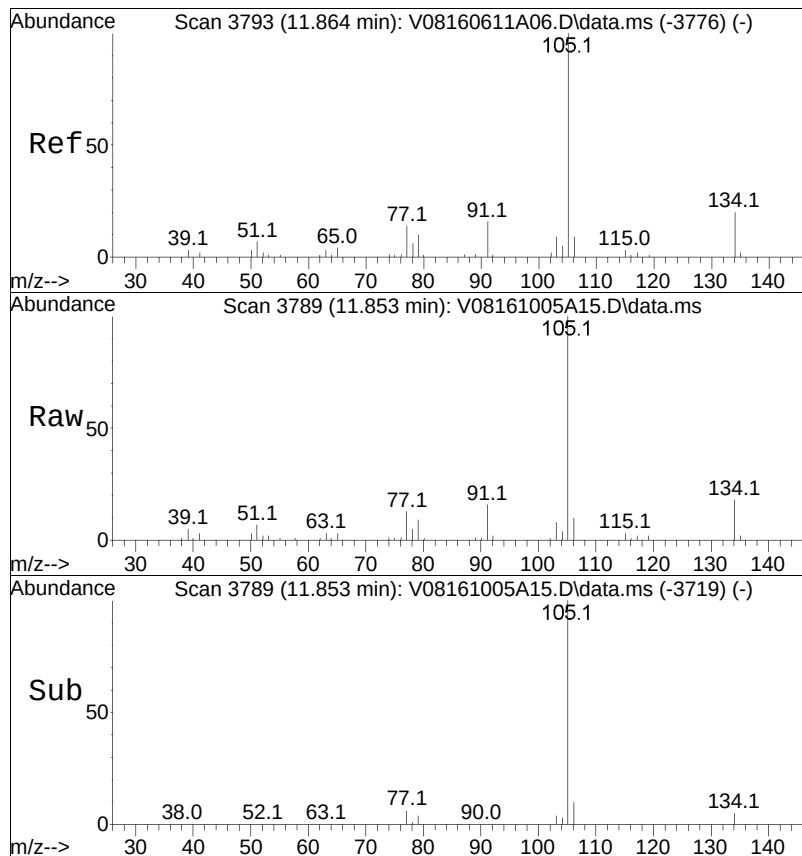




#97
 1,2,4-Trimethylbenzene
 Concen: 13.42 ug/L
 RT: 11.741 min Scan# 3749
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

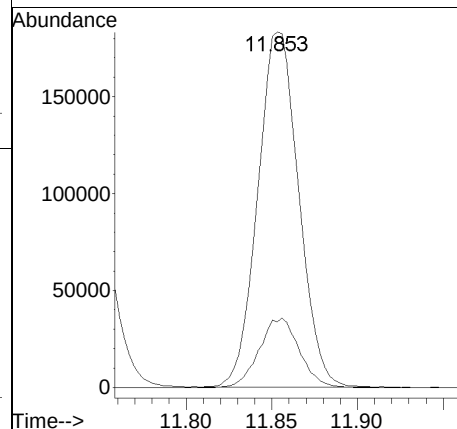
Tgt Ion:105 Resp: 232571
 Ion Ratio Lower Upper
 105 100
 120 45.7 35.9 53.9

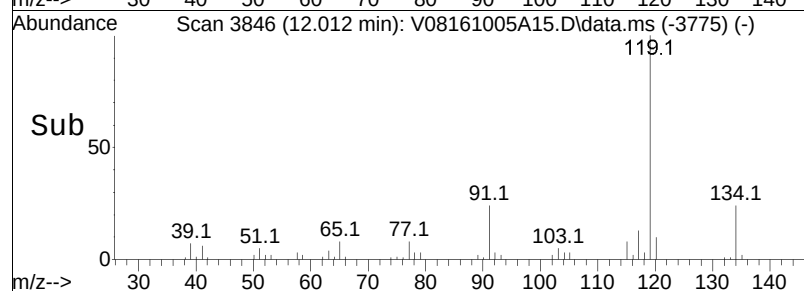
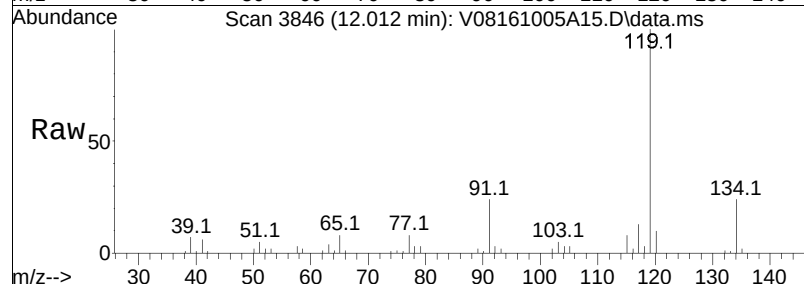
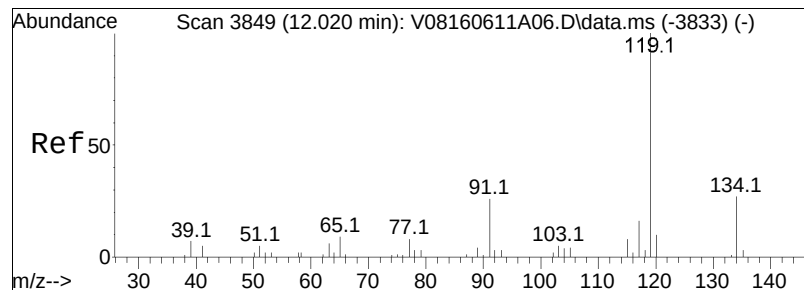




#98
 sec-Butylbenzene
 Concen: 12.91 ug/L
 RT: 11.853 min Scan# 3789
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

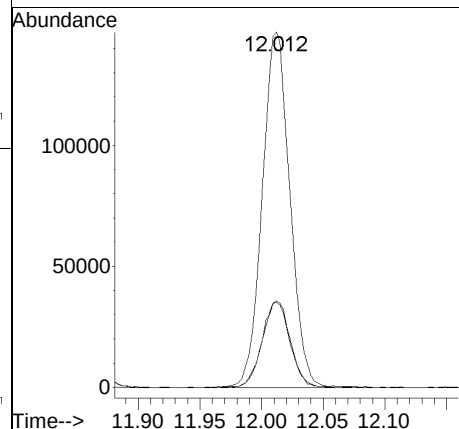
Tgt	Ion	Ratio	Lower	Upper
105	100			
134	19.0	12.5	26.1	

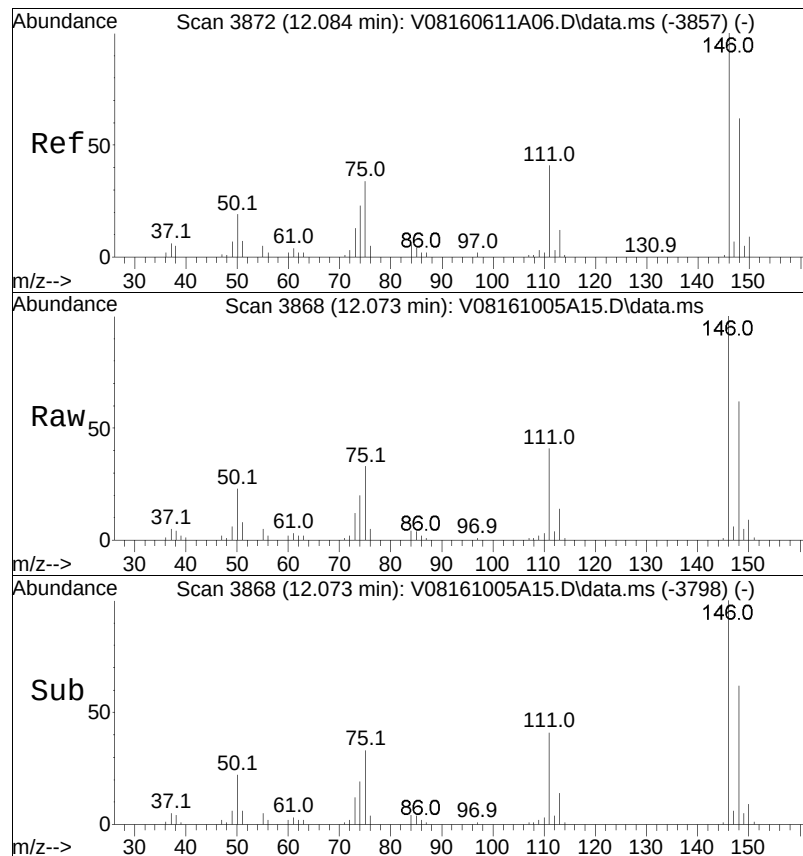




#99
 p-Isopropyltoluene
 Concen: 12.78 ug/L
 RT: 12.012 min Scan# 3846
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

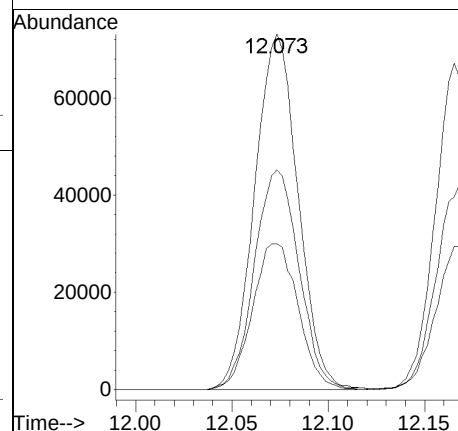
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.6	16.3	33.9
91	24.2	16.6	34.4

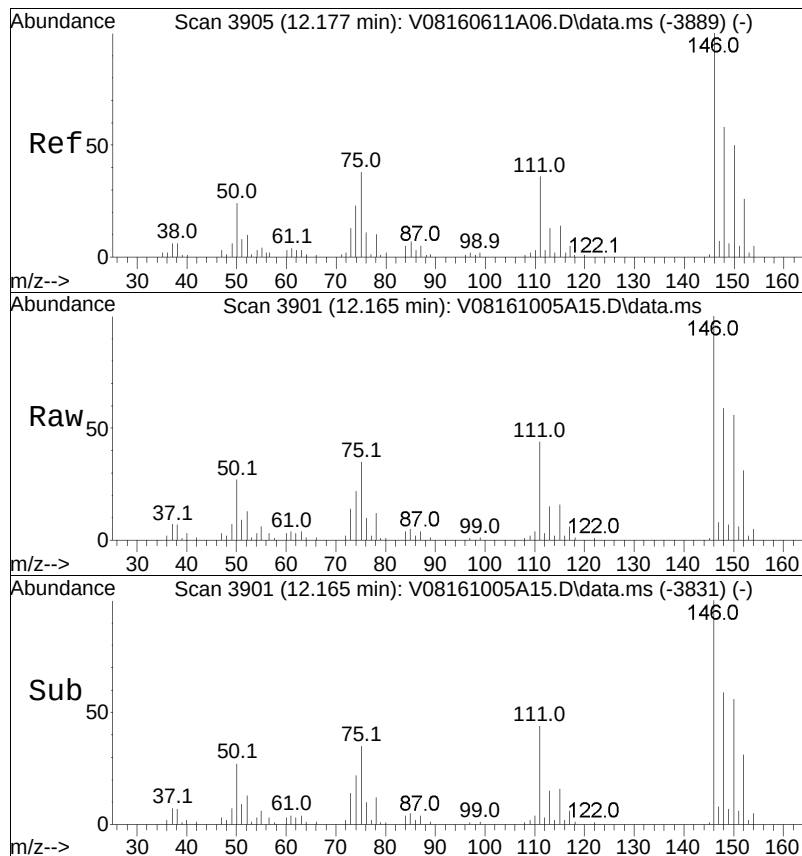




#100
 1,3-Dichlorobenzene
 Concen: 11.85 ug/L
 RT: 12.073 min Scan# 3868
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

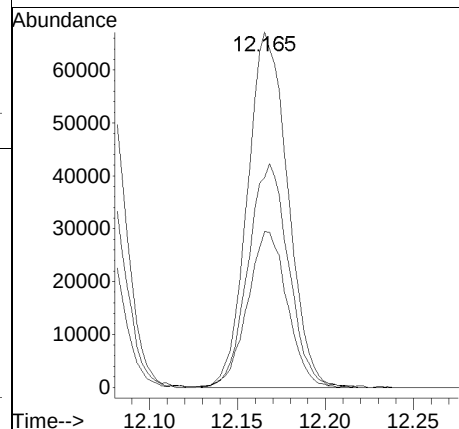
Tgt Ion:	146	Resp:	114766
Ion Ratio	Lower	Upper	
146	100		
111	43.0	27.0	56.0
148	63.4	41.0	85.0

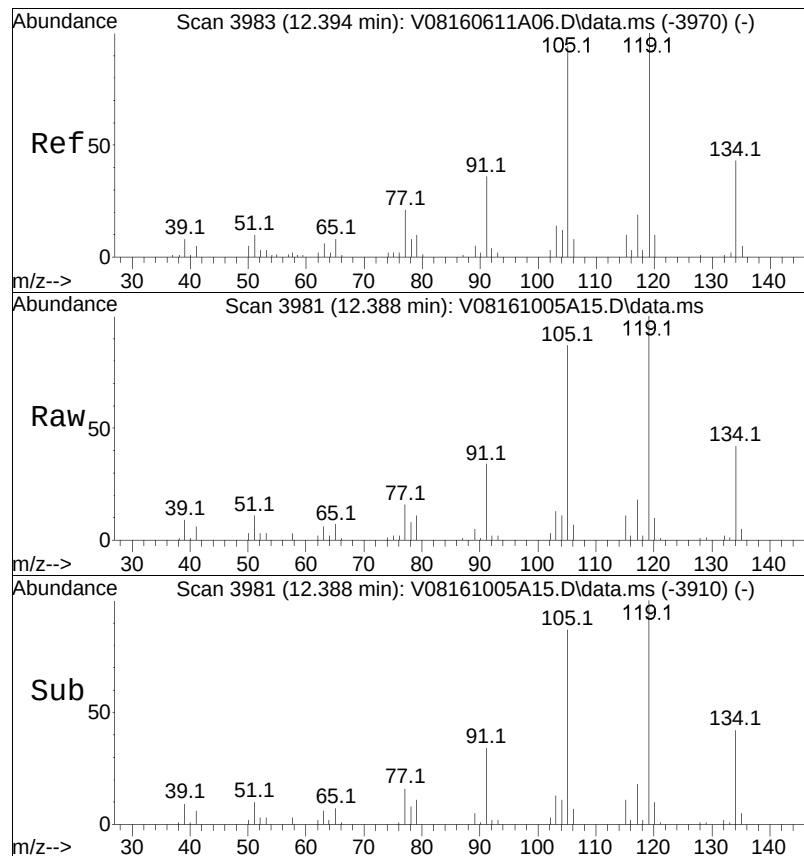




#101
 1,4-Dichlorobenzene
 Concen: 11.45 ug/L
 RT: 12.165 min Scan# 3901
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

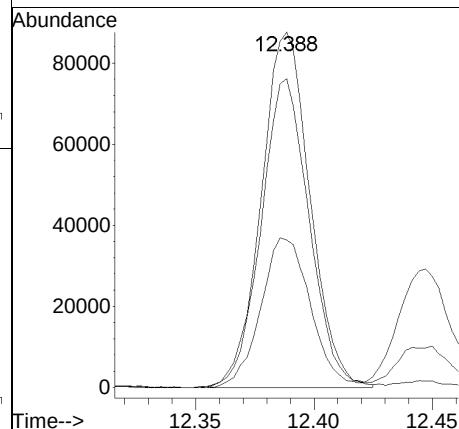
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	32.7	49.1
148	63.0	49.6	74.4

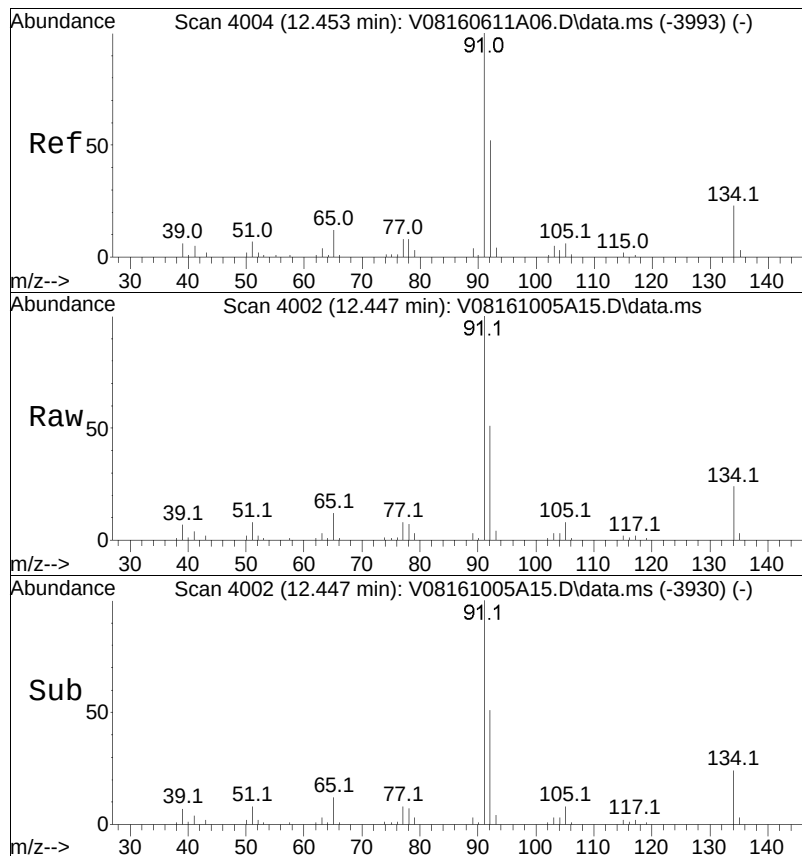




#102
 p-Diethylbenzene
 Concen: 11.22 ug/L
 RT: 12.388 min Scan# 3981
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

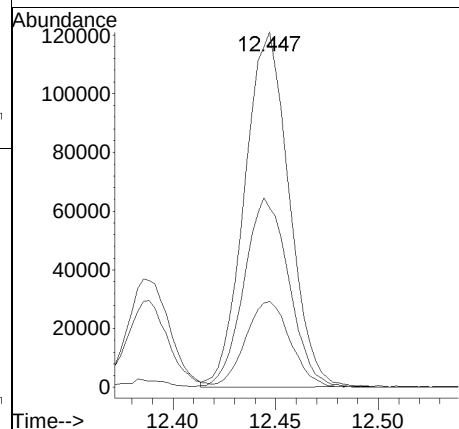
Tgt Ion	Ratio	Lower	Upper
119	100		
105	85.4	57.2	118.8
134	42.9	29.3	60.8

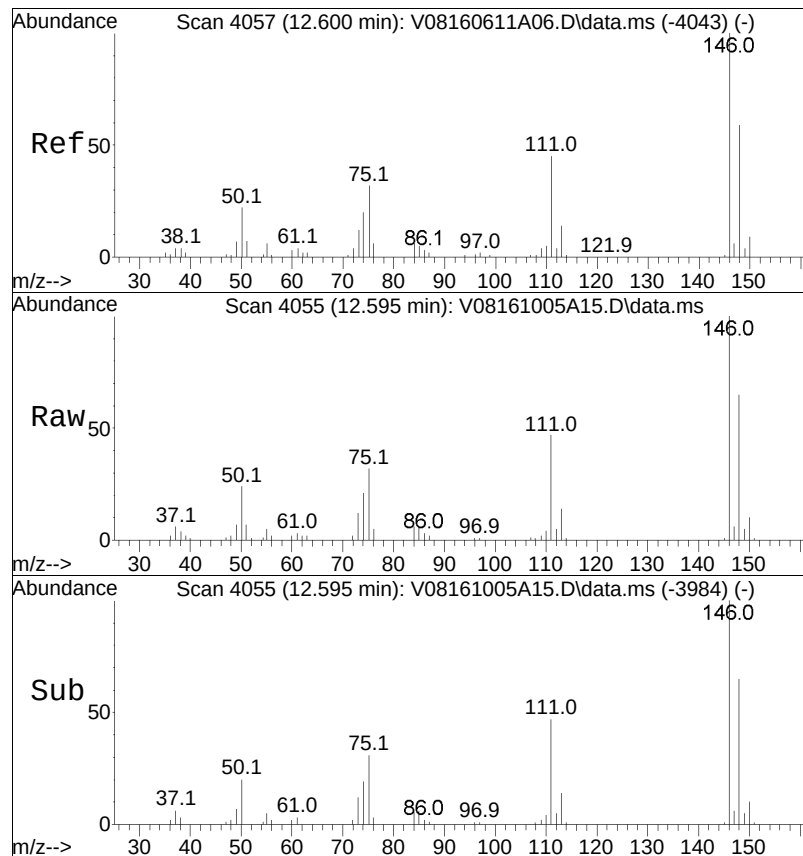




#103
 n-Butylbenzene
 Concen: 11.68 ug/L
 RT: 12.447 min Scan# 4002
 Delta R.T. 0.000 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

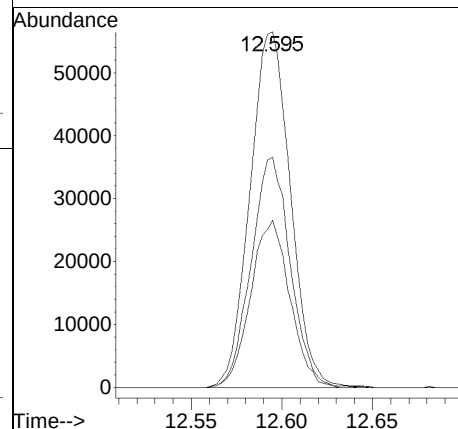
Tgt Ion:	91	Resp:	182145
Ion Ratio	Lower	Upper	
91	100		
92	54.2	43.4	65.2
134	24.5	19.8	29.6

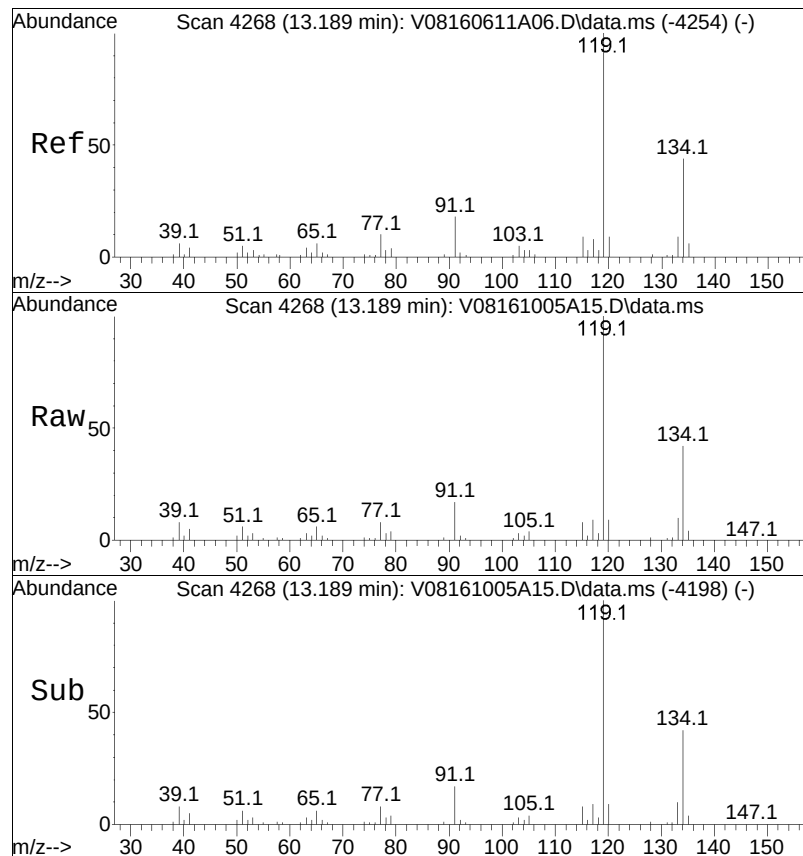




#104
 1,2-Dichlorobenzene
 Concen: 11.54 ug/L
 RT: 12.595 min Scan# 4055
 Delta R.T. -0.002 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

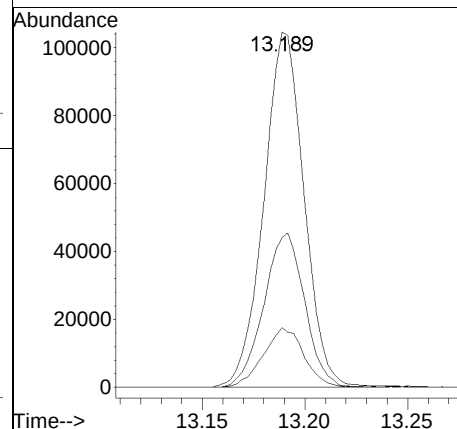
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	28.0	58.1
148	62.7	41.3	85.7

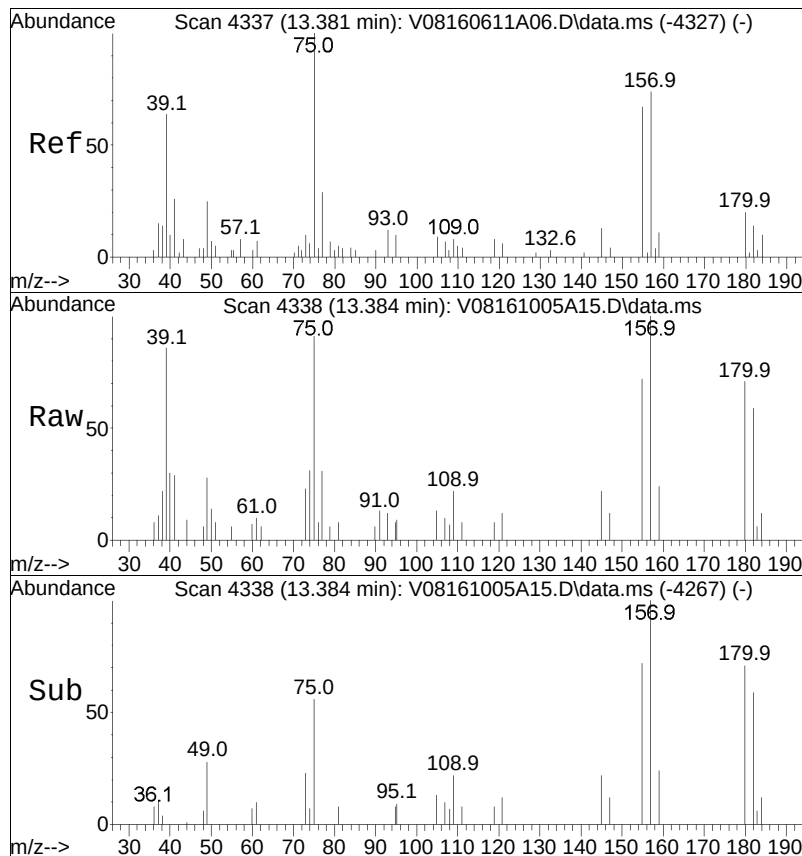




#105
 1,2,4,5-Tetramethylbenzene
 Concen: 10.94 ug/L
 RT: 13.189 min Scan# 4268
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

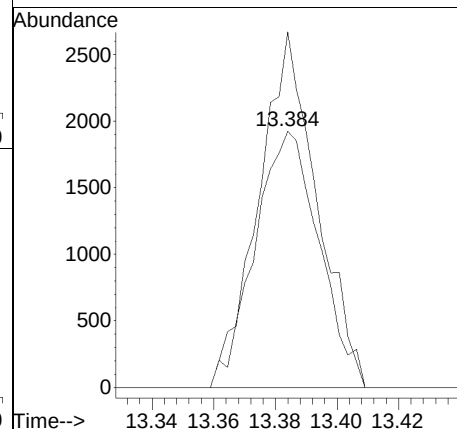
Tgt Ion	Ratio	Lower	Upper
119	100		
134	44.3	29.8	62.0
91	17.1	11.1	23.1

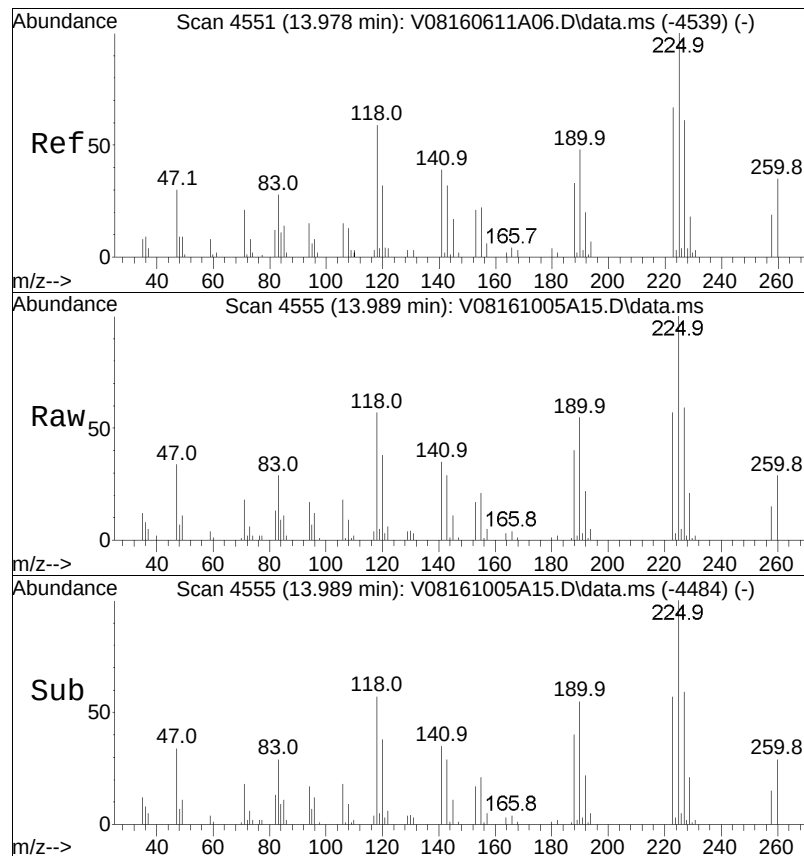




#106
 1,2-Dibromo-3-chloropropane
 Concen: 10.72 ug/L
 RT: 13.384 min Scan# 4338
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

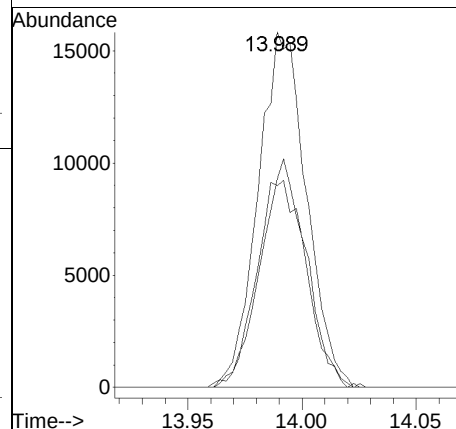
Tgt Ion:155 Resp: 2785
 Ion Ratio Lower Upper
 155 100
 157 125.7 100.8 151.2

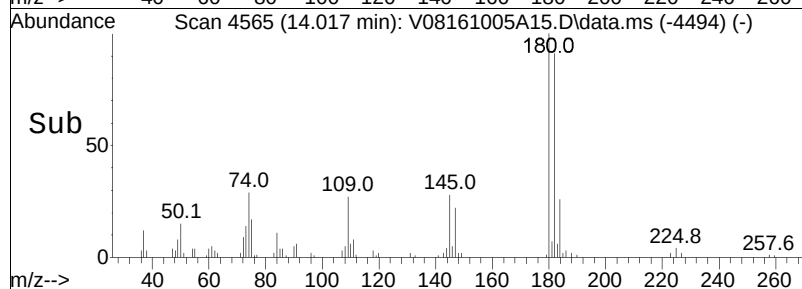
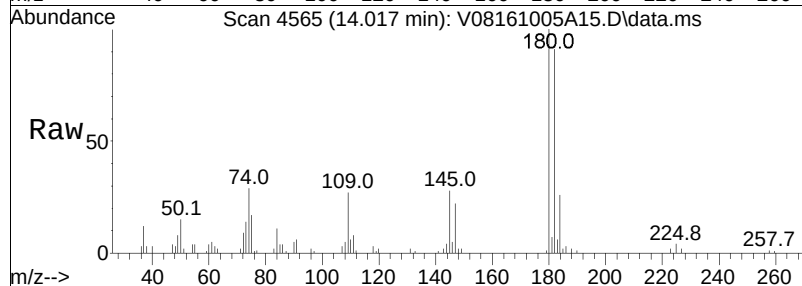
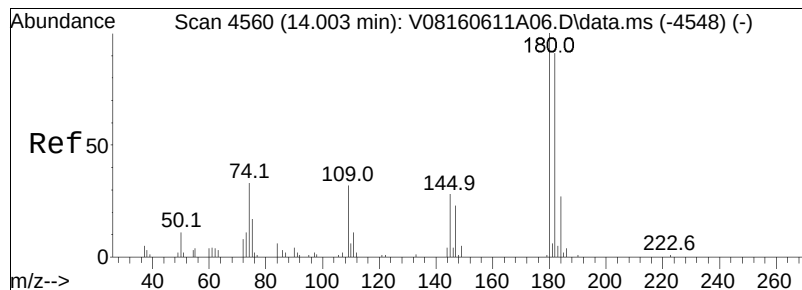




#108
 Hexachlorobutadiene
 Concen: 13.68 ug/L
 RT: 13.989 min Scan# 4555
 Delta R.T. -0.003 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt	Ion:225	Resp:	23326
Ion	Ratio	Lower	Upper
225	100		
223	60.0	50.6	76.0
227	60.4	50.2	75.2





#109

1,2,4-Trichlorobenzene

Concen: 8.13 ug/L

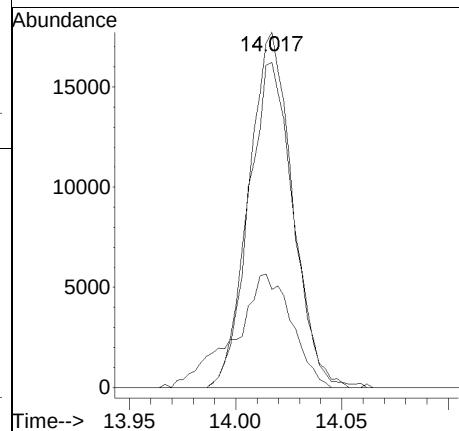
RT: 14.017 min Scan# 4565

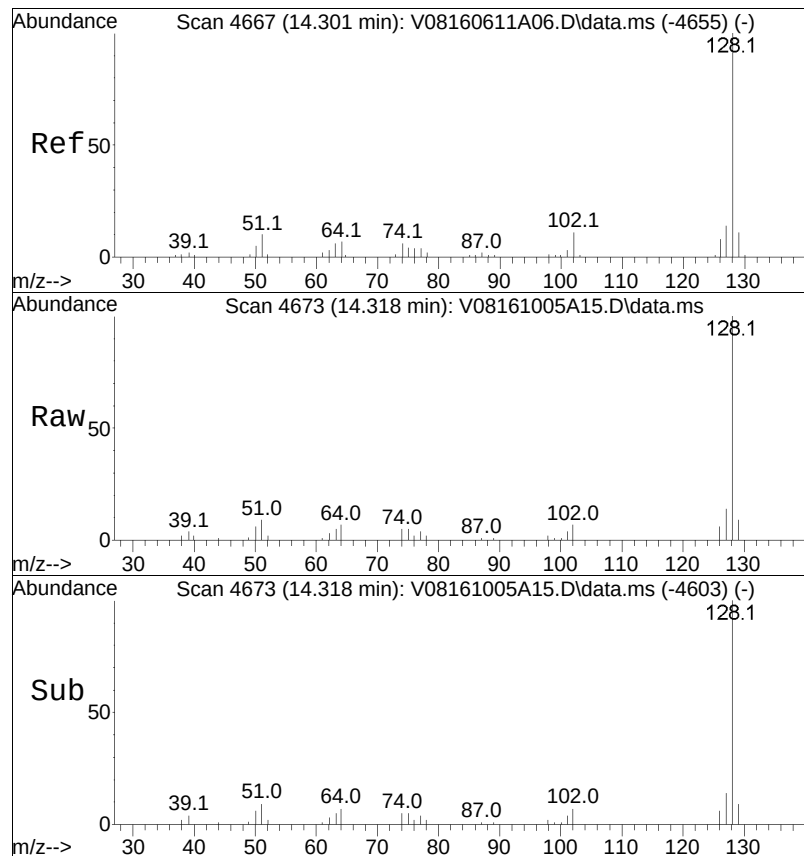
Delta R.T. -0.003 min

Lab File: V08161005A15.D

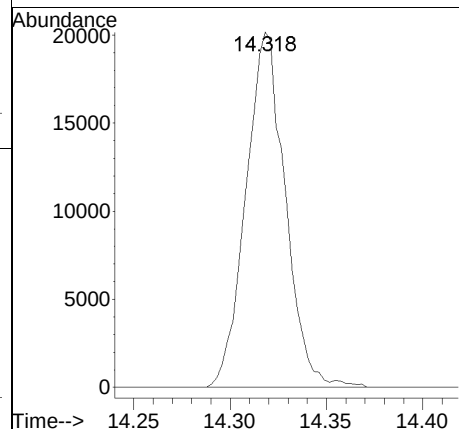
Acq: 5 Oct 2016 3:59 pm

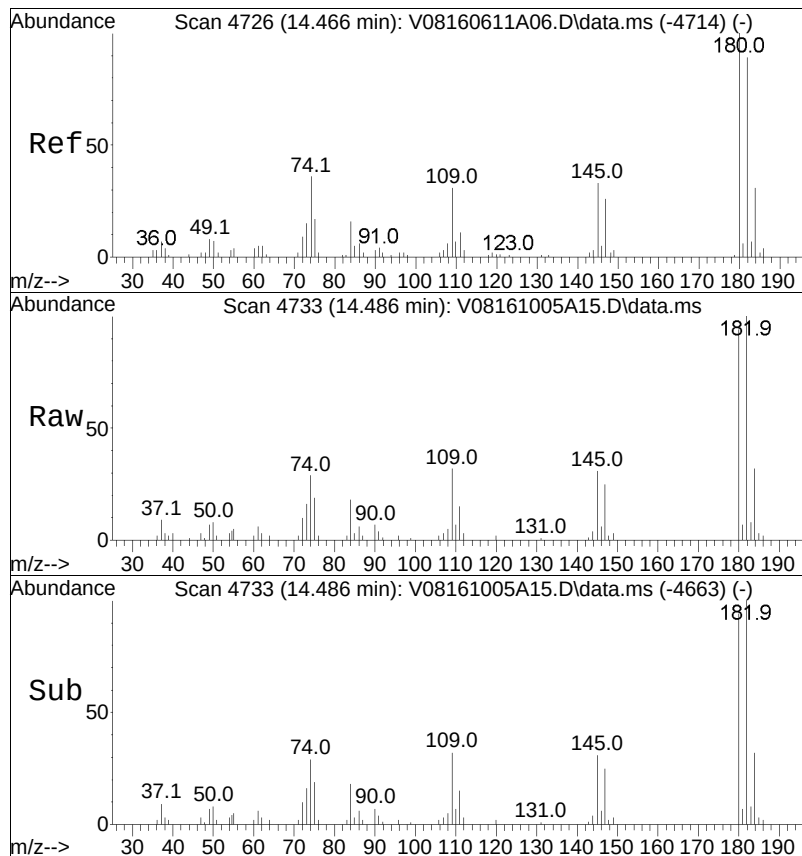
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	79.3	118.9
145	41.9	26.2	39.4





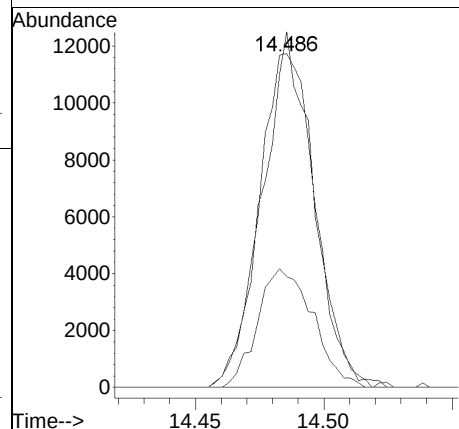
#110
 Naphthalene
 Concen: 7.16 ug/L
 RT: 14.318 min Scan# 4673
 Delta R.T. -0.006 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm
 Tgt Ion:128 Resp: 28676





#111
 1,2,3-Trichlorobenzene
 Concen: 8.25 ug/L
 RT: 14.486 min Scan# 4733
 Delta R.T. -0.005 min
 Lab File: V08161005A15.D
 Acq: 5 Oct 2016 3:59 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.9	116.9
145	34.9	29.8	44.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2016\10	Method	: V108_1600808_8260.m
Data File	: V08161005A15.D	Operator	: VOA108:PK
Date Inj'd	: 10/5/2016 3:59 pm	Instrument	: VOA 108
Sample	: WG939161-7,31,10,10,,c2	Quant Date	: 10/5/2016 6:22 pm

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



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Oct 14 2016, 03:42 pm

Work Group: WG939161 for Department: 31 GC/MS - Volatiles

Created: 05-OCT-16 Due: Operator: PD

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1630897-01	MW-3	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
L1630897-02	MW-5	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
L1630897-03	MW-6A	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
L1630897-04	MW-4	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
L1630897-05	DUPE	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
L1630897-06	FIELD BLANK	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
L1630897-07	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	1012	1006	S0	Vial-B
WG939161-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG939161-10	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG939161-11	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG939161-12	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG939161-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG939161-3	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG939161-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG939161-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG939161-6	Matrix Spike	S NYTCL-8260	WATER	DONE	U				
WG939161-7	Matrix Spike Duplica	S NYTCL-8260	WATER	DONE	U				
WG939161-8	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG939161-9	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
Comments:									
WG939161-11	WG939161-10								
WG939161-4	WG939161-3								
WG939161-6	L1630897-02								
WG939161-7	L1630897-02								

Inst: VOA108
Initials: PD
Date: **08/08/16**
Run: **B**

BFB: V5793
IS/SS: V5791 Autosar
ICAL: V5808, V5807, V5796 Concen
ICV: V5780, V5753, V5783, V5797, V5754, V5751

Method
GC: 8260
Autosampler: VOA108
Concentrator: Default



QC: Seq:

[illegible]

Inst: VOA108
Initials: PD
Date: **08/08/16**
Run: **B**

BFB: V5793
IS/SS: V5791 Autosar
ICAL: V5808, V5807, V5796 Concen
ICV: V5780, V5753, V5783, V5797, V5754, V5751

Method
GC: 8260
Autosampler: VOA108
Concentrator: Default



QC: Seq:

[illegible]

Inst: VOA108
Initials: TE
Date: **10/05/16**
Run: **A**

BFB: V5854
IS/SS: V5860 Autosar
ICAL: V5808, V5807, V5796 Concen
ICV: V5780, V5753, V5783, V5797, V5754, V5751

Method
GC: 8260
Autosampler: VOA108
Concentrator: Default



QC: Seq:

[illegible]

Inst: VOA108
Initials: TE
Date: **10/05/16**
Run: **A**

BFB: V5854
IS/SS: V5860
ICAL: V5808, V5807, V5796
ICV: V5780, V5753, V5783, V5797, V5754, V5751

Method
GC: 8260
Autosampler: VOA108
Concentrator: Default



QC: _____ Seq: _____

Vial	obs

APPENDIX D
Data Usability Summary Report

DATA USABILITY SUMMARY REPORT (DUSR)

Site Name:	Cubsmart Site, Baldwin, New York
Performing Laboratory:	Alpha Analytical Laboratories, Westborough, Massachusetts
P.W. Grosser Project No.:	CUE1601
Project Manager:	John D. Eichler
Stone Project Number:	16-189 Cubsmart Site
Analyses/Methods:	VOAs by Method 8260C/5030B
Data Validation Level:	100%, Full
Prepared by: Kim Watson, Stone Environmental, Inc.	Completed on: 12/23/2016
Reviewed by: Samouel Beguin, Stone Environmental, Inc.	SDG No.: L1630897

Stone Environmental, Inc. (Stone) has completed a full data validation and quality assurance (QA) evaluation on the analysis data prepared by Alpha Analytical Laboratories in Westborough, Massachusetts for five water samples, one trip blank, and one field blank collected on September 28, 2016 and received at the laboratory on September 29, 2016. The laboratory reported the data under Sample Delivery Group (SDG) No. L1630897 received by Stone on December 7, 2016. The sample and laboratory identifiers, and the selected analyses as shown on the chain of custody (COC) record are provided in Attachment A. Sample identifications on one of the COC records did not match the references on the containers; the client instructed the laboratory to report and log in the samples accordingly: “-02 MW-6 rec'd labeled as MW-5 and -04 MW-4 rec'd labeled as MW-6A.” This COC record was amended by the validator with the notes from the client to reflect these corrections. Volatile organic analyses were performed according to SW846 Methods 5030B and 8260C.

This Data Usability Summary Report (DUSR) is based on reviews of the laboratory SDG case narrative and the full “Tier III/Category B” third-party data validation report, which are provided in Attachment B and Attachment C, respectively. Tier III/Category B data validation was performed on 100% of the data for volatiles in water samples, in accordance with EPA Region II’s Standard Operating Procedures (SOPs) for validating organic analyses and NYSDEC’s Technical Guidance for Site Investigation and Remediation (DRAFT DER-10, Nov. 2009) Appendix 2B Guidance for Data Deliverables and Development of Data Usability Summary Reports. Professional judgment was applied as necessary and appropriate.

This DUSR data evaluation included a review of the following items and was based on the case narrative, data summary tables, and the full data validation:

- Technical holding times
- Sample preservation
- Instrument tunings and calibration
- Instrument and preparation blanks
- Surrogate and internal standard recoveries
- Laboratory control and field sample spike recoveries
- Field and laboratory duplicates
- Sample quantitation and quantitation limits
- Calculation checks (within data validation report)

All laboratory deliverables were received in accordance with the work plan and general reporting requirements from NYSDEC's ASP (2005) with the exception that the case narrative did not include a summary of the method non-conformances. For future sampling events, the client should request that the case narrative include all method non-compliances. Final validated results are annotated with the following codes, as defined in EPA Region II SOPs:

U - The analyte was analyzed for but was not detected above the reported sample quantitation limit. The associated numerical value is the sample quantitation limit. The sample quantitation limit accounts for sample-specific dilution factors and percent solids corrections or sample sizes that deviate from those required by the method.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The "J" data may be biased high or low.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. The R replaces the numerical value or sample quantitation limit. In some instances such as dilutions and re-analyses, a result may be indicated as "rejected" to avoid confusion when a more quantitatively accurate result is available.

Summary of Data Usability

The validation and usability assessments indicate that the data from this sample set are usable as qualified during the validation assessment with the exception of the rejected data for 1,4-dioxane in MW-5. The overall quality control data provided in the laboratory report and in the case narrative indicate that the data represents adequate method accuracy and precision with regard to project objectives. The qualifications made to the data set are summarized below and in the data validation report.

- Based on unacceptable percent difference (%D) values in the associated calibration standards, results for dichlorodifluoromethane, chloromethane, 1,1-dichloropropene, 4-methyl-2-pentanone, 2-hexanone, 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene in all samples were qualified as estimated (UJ).
- Based on unacceptable percent difference (%D) values in the associated calibration standards, results for bromomethane in MW5, MW6A, MW4, Field Blank, and Trip Blank were qualified as estimated (UJ).
- Based on field blank contamination, positive results for 1,4-dioxane reported at less than the reporting limit were qualified accordingly as less than the reporting limit (U).
- Based on unacceptable recoveries in the MS/MSD analyses, results for bromomethane, naphthalene, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene were qualified as estimated in MW-5.
- Based on no recovery in the MS/MSD analyses, the result for 1,4-dioxane in MW-5 was rejected (R).
- Based on poor reproducibility in the field duplicate pair, results for chloroethane in MW-3 and DUPE were qualified as estimated (J).
- The result for chloroethane in the original analysis of MW-6A was rejected (R) due to detection of this compound outside the linear range of the instrument and to avoid confusion since a more quantitatively accurate result was available in the subsequent dilution analysis. The result for this compound was replaced with the acceptable concentration from the more diluted analysis of this sample (MW-6AD). An “E” qualifier was appropriately applied by the laboratory to sample Form I result when the concentration of the target analyte was greater than the instrument calibration range. However, “D” qualifier was not applied by the laboratory to the positive result from diluted sample analysis. The validator removed the laboratory-applied “E” qualifier.
- The laboratory appropriately applied “J” qualifiers to the sample Form I’s when the concentration of an analyte was less than the sample-specific quantitation limit. The validator did not remove these qualifiers. All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to

the limit noted in the MDL column. All non-detects have been reported with a “U” in the Electronic Data Deliverables (EDD). The validator recommends that the non-detects reported to the MDL be reported as estimated (code “UJ”), as these values are not supported with a calibration point within the initial calibration curve. The validator did not remove these qualifiers.

The completeness level attained for the analysis of the field samples received was 99.8%. The overall quality of the data was acceptable and all results as qualified (approximately 12%) are considered usable.

ATTACHMENT A

**CHAIN OF CUSTODY (COC) RECORD
SDG No. L1630897
Volatiles in Water Samples**

NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>9/30/16</u>		ALPHA Job # <u>11630897</u>					
		Project Information Project Name: <u>CUE1601</u> Project Location: _____ Project # <u>CUE1601</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO # _____							
Client Information Client: <u>PWGC</u> Address: <u>630 Johnson ave.</u> <u>Bohemia NY 11716</u> Phone: <u>631-589-6353</u> Fax: _____ Email: <u>J.Eichler@pwgrass.com</u>		Project Manager: <u>John Eichler</u> ALPHAQuote #: _____ Turn-Around Time Standard ☒ Due Date: _____ Rush (only if pre approved) ☐ # of Days: _____		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: _____ ☐ NJ ☐ NY ☐ Other: _____							
These samples have been previously analyzed by Alpha ☐						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)					
Other project specific requirements/comments: _____ _____ Please specify Metals or TAL. _____ _____						VOCs Full		Total Bottle					
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection						Sample Matrix		Sampler's Initials	
				Date Time									
<u>30897-01</u>		<u>MW-3</u>		<u>9/28 10:55</u>						<u>GW</u>		<u>NK</u>	
<u>02</u>		<u>MW-5</u>		<u>11:45</u>									
<u>03</u>		<u>MW-6A</u>		<u>12:25</u>									
<u>04</u>		<u>MW-4</u>		<u>13:07</u>									
<u>05</u>		<u>DHPE</u>		<u>XX:XX</u>									
<u>06</u>		<u>Feld Blank</u>		<u>13:15</u>									
<u>07</u>		<u>Trip Blank</u>											
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other						Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type ☒ Preservative _____		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
		Relinquished By:		Date/Time		Received By:		Date/Time					
		<u>John Eichler</u>		<u>9/28 10:55</u>		<u>John Eichler</u>		<u>9/29/16 11:30</u>					
		<u>John Eichler</u>		<u>9/29/16 13:10</u>		<u>John Eichler</u>		<u>9/29/16 13:10</u>					
		<u>John Eichler</u>		<u>9/30-16 0000</u>		<u>John Eichler</u>		<u>9/30/16 0000</u>					

ATTACHMENT B

**CASE NARRATIVE
SDG No. L1630897
Volatiles in Water Samples**

Project Name: CUE1601
Project Number: CUE1601

Lab Number: L1630897
Report Date: 10/14/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1630897-01	MW-3	WATER	Not Specified	09/28/16 10:55	09/29/16
L1630897-02	MW-5	WATER	Not Specified	09/28/16 11:45	09/29/16
L1630897-03	MW-6A	WATER	Not Specified	09/28/16 12:25	09/29/16
L1630897-04	MW-4	WATER	Not Specified	09/28/16 13:07	09/29/16
L1630897-05	DUPE	WATER	Not Specified	09/28/16 00:00	09/29/16
L1630897-06	FIELD BLANK	WATER	Not Specified	09/28/16 13:15	09/29/16
L1630897-07	TRIP BLANK	WATER	Not Specified	09/28/16 00:00	09/29/16

Project Name: CUE1601
Project Number: CUE1601

Lab Number: L1630897
Report Date: 10/06/16

Case Narrative

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

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

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

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

HOLD POLICY

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

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

Project Name: CUE1601
Project Number: CUE1601

Lab Number: L1630897
Report Date: 10/06/16

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1630897-01, -03, and -05: The analysis was performed utilizing a compromised vial, with the client's authorization.

The WG939161-6/-7 MS/MSD recoveries, performed on L1630897-02, are below the acceptance criteria for 1,4-dioxane (0%/0%) due to the concentration of this compound falling below the reported detection limit.

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

Authorized Signature:



Report Date: 10/06/16

Title: Technical Director/Representative

ATTACHMENT C

**DATA VALIDATION REPORT
SDG No. L1630897
Volatiles in Water Samples**

DATA VALIDATION REPORT

FOR

**CUBESMART SITE
BALDWIN, NEW YORK**

September 2016 Sampling Round

**ORGANIC ANALYSIS DATA
Volatiles in Water Samples**

Sample Delivery Group (SDG) No. L1630897

Chemical Analyses Performed By:Alpha Analytical
Eight Walkup Drive
Westborough, MA 01581-101**For:**John D. Eichler
P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia, NY 11716**Data Validation Report By:**Kim B. Watson, RGAP-GLP
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier, VT 05602**December 23, 2016**Reference #16-189 Cubesmart 9/16
Validation Report_L1630897/kbw

EXECUTIVE SUMMARY

Stone Environmental, Inc. (Stone) has completed third-party data validation on volatile organic analysis (VOA) data prepared by Alpha Analytical, Westborough, Massachusetts for five water samples, a trip blank, and a field blank collected from the Cubesmart Site in Glenwood Landing, New York. The laboratory reported the data under Sample Delivery Group (SDG) No. L1630897 that was submitted as a single data package received by Stone (electronically) on December 7, 2016 and includes the following samples:

Sample No.	Laboratory ID
MW-3	L1630897-01
MW-5	L1630897-02
MW-6A	L1630897-03
MW-4	L1630897-04
DUPE	L1630897-05
Field blank	L1630897-06
Trip Blank	L1630897-07

The samples in this data set represent samples collected September 28, 2016. The samples were received at the laboratory on the following day. A cross-reference of sample IDs was provided in the data package. Sample identifications on the COC record did not match the references on the containers; the client instructed the laboratory to report and log in the samples accordingly: “-02 MW-6 rec'd labeled as MW-5 and -04 MW-4 rec'd labeled as MW-6.”

Based on the validation effort, results in all samples were determined to be valid as reported with the following exceptions:

- Results for dichlorodifluoromethane, chloromethane, 1,1-dichloropropene, 4-methyl-2-pentanone, 2-hexanone, 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene in all samples were qualified as estimated (UJ).

- Results for bromomethane in MW5, MW6A, MW4, Field Blank, and Trip Blank were qualified as estimated (UJ).
- Positive results for 1,4-dioxane reported at less than the reporting limit were qualified as less than the reporting limit (U).
- Results for bromomethane, naphthalene, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene were qualified as estimated in MW-5.
- The result for 1,4-dioxane in MW-5 was rejected (R). **NOTE:** the “R” qualifier takes precedence over any previously qualified data.
- Results for chloroethane in MW-3 and DUPE were qualified as estimated (J).
- The result for chloroethane in the original analysis of MW-6A was rejected (R) due to detection of this compound outside the linear range of the instrument and to avoid confusion, since a more quantitatively accurate result was available in the subsequent dilution analysis. The result for this compound was replaced with the acceptable concentration from the more diluted analysis of this sample (MW-6AD). An “E” qualifier was appropriately applied by the laboratory to sample Form I result when the concentration of the target analyte was greater than the instrument calibration range. However, “D” qualifier was not applied by the laboratory to the positive result from diluted sample analysis. The validator removed the laboratory-applied “E” qualifier.
- The laboratory appropriately applied “J” qualifiers to the sample Form I’s when the concentration of an analyte was less than the sample-specific quantitation limit. The validator did not remove these qualifiers. All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column. All non-detects have been reported with a “U” in the Electronic Data Deliverables (EDD). The validator recommends that the non-detects reported to the MDL be reported as estimated (code “UJ”), as these values are not supported with a calibration point within the initial calibration curve. The validator did not remove these qualifiers.

Documentation problems observed in the data package and on the chain of custody (COC) records are described in Section XIII.

The Overall Evaluation of Data (Section XII) presents the rationale for the decisions that have been implemented and presented above. The validation findings and conclusions for each analytical parameter are detailed in the remaining sections of this report and are based on the following information:

QC Criteria	Were acceptance criteria met for Contaminants of Concern?		
	Yes	No	NA
Chain of custody (COC)/sample integrity/holding times	√		
Data completeness	√		
Holding times and sample preservation	√		
GC/MS performance checks	√		
Calibrations		√	
Laboratory method blanks/equipment blanks	√		
Matrix spike/matrix spike duplicate (MS/MSD) results		√	
Laboratory control samples		√	
Field duplicate results		√	
Surrogate recoveries	√		
Internal standard results	√		
Compound identification	√		
Sample results	√		
Calculations/transcriptions	√		
NA - Not applicable; indicates that either the QC is not applicable to this data set or is not required by the method.			

Note: This validation report shall be considered part of the data package for all future distributions of the VOA data.

INTRODUCTION

Analyses of water samples were performed according to US EPA SW846 Methodologies: Method 5030B and 8260C GC/MS analyses for volatiles in water. The target compound lists included all standard target analytes typically specified under these methods under the NYS ASP Category B Deliverables (NYSTCL List).

Stone's validation was performed in conformance with Tier III guidelines as defined by EPA Region I, "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" (March 1996). The data were evaluated in accordance with EPA Region II's Standard Operating Procedures (SOPs) from the EPA Hazardous Waste Support Branch: SOP#HW-24 "SOP for the Validation of Organic Data Acquired Using SW-846 Method 8260" (Rev. 2, July 1996. "EPA's National Functional Guidelines for Organic Data Review" (EPA 540/R-99/008, October 1999) were also considered during the evaluation, and professional judgment was applied as necessary and appropriate.

An independent third party data validation was performed on 100% of the sample data. Tentative identification of non-target analyte peaks (i.e., tentatively identified compounds, or TICs) was not requested and therefore not performed for these analyses.

The data validation process evaluates data on a technical basis for chemical analyses conducted under the Contract Laboratory Program (CLP) or other well-defined methods. Contract compliance is evaluated only in specific situations. Issues pertaining to contractual compliance are noted where applicable. It is assumed that the data package is presented in accordance with the CLP-like requirements. It is also assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission for validation.

Results of sample analyses are reported by the laboratory as either qualified or unqualified; various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. During the validation process, laboratory data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data validator as necessary and appropriate. Raw data are examined in detail to check calculations, compound identification, and/or transcription errors. Validated results are either qualified or unqualified; if results are unqualified, this means that the reported values may be used without reservation. Final validated results are annotated with the following codes, as defined in EPA Region II SOPs (referenced above):

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated numerical value is the sample quantitation limit. The sample quantitation limit accounts for sample-specific dilution factors and percent solids corrections or sample sizes that deviate from those required by the method.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The “J” data may be biased high or low.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. The R replaces the numerical value or sample quantitation limit. In some instances (e.g., a dilution), a result may be indicated as “rejected” to avoid confusion when a more quantitatively accurate result is available.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

These codes (qualifiers) are assigned by the reviewer during a validation and have been added to the laboratory-supplied excel compatible NYS EQUIS format files identified as follows:

TestResultQC_v3_L1630897. All qualified data and reason codes for the qualifications can be found in Attachment A.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is completely unusable. The analysis is invalid due to significant quality control problems and provides no information as to whether the compound is present or not in the sample. These “R” rejected values should not appear on data tables because they have no useful purpose under any circumstances. Second, no analyte concentration is guaranteed to be accurate even if all associated quality control is acceptable. While strict quality control conformance provides well-defined confidence in the reported results, any analytical result will always contain some uncertainty as demonstrated in the laboratory-derived control limits.

The user is also cautioned that the validation effort is based on the materials provided by the laboratory. Software manipulation, resulting in misleading raw data printouts, cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

Detailed Findings of Measurement Error Associated with the Analytical Analysis

I. Preservation and Technical Holding Times (Sample Integrity)

The water samples for VOA analysis were collected on September 28, 2016. The samples were received at the laboratory on the following day. According to chain of custody (COC) records, laboratory receipt records, and runlogs, all water samples were appropriately preserved in the field prior to collection and confirmed by the laboratory to have a pH<2. All holding times for analysis were met for all samples (within 14 days from collection). All samples were received at the laboratory at the appropriate temperature of 4.3°C (<10°C limit)

II. GC/MS Instrument Performance Check (Tuning)

The tuning of the instruments for the VOA analyses were demonstrated with the analysis of 4-bromofluorobenzene (BFB). Tunes were analyzed for each shift (12-hour period) during which the samples or associated standards were analyzed. All tunes as recorded on Form V-like summaries in this data set were acceptable.

Initial and continuing calibration verifications were performed for the VOA and were acceptable with the following exceptions:

Analysis Date (file Id)	Analysis Time	Compound	%RSD % D/Average RRF1	Action	Associated Samples
ICV 8 Aug 2016 (V08160808B19.D)	23 :13	Dichlorodifluoromethane	-39.0	J, UJ	All waters
		Chloromethane	-34.3	J, UJ	
		1,1-Dichloropropene	-21.1	J, UJ	
CCV 05 Oct 16 (V08161005A02.D)	09:56	Bromomethane	36.2	J, UJ	MW5, MW6A, MW4, Field Blank, Trip Blank
		4-Methyl-2-pentanone	25.7	J, UJ	
		2-Hexanone	28.5	J, UJ	
		1,2-Dibromo-3-chloropropane	21.6	J, UJ	
		1,2,4-Trichlorobenzene	34.1	J, UJ	
		Naphthalene	43.1	J, UJ	

Analysis Date (file Id)	Analysis Time	Compound	%RSD % D/Average RRF1	Action	Associated Samples
		1,2,3-Trichlorobenzene	28.7	J, UJ	
CCV 06 Oct 16 V08161006A02	09:34	4-Methyl-2-pentanone	26.3	J, UJ	MW3, DUPE, MW6A
		2-Hexanone	31.4	J, UJ	
		1,2,4-Trichlorobenzene	34.9	J, UJ	
		Naphthalene	42.3	J, UJ	
		1,2,3-Trichlorobenzene	32.3	J, UJ	

Initial Calibration (IC) limits = $\leq 20\%$ RSD or < 0.995 , Continuing Calibration (CC) limits = 20% D, AVE RRF < 0.050 .

It should be noted that pursuant to the National Functional Guidelines document, results for certain compounds such as acrylonitrile acetone, and 1,4-dioxane in all samples in this data set warranted qualification based on the low average RRF achieved. However, these compounds were spiked into the laboratory control samples satisfactory recoveries were demonstrated on the recovery summaries, therefore, results for these compounds were not qualified. The CLP methodology and the SW846 8260 methodology specify that some compounds may exhibit RRFs < 0.05 , which is acceptable. Therefore, based on professional judgment, no data were qualified on this basis.

Based on unacceptable percent difference (%D) values in the associated calibration standards, results for dichlorodifluoromethane, chloromethane, 1,1-dichloropropene, 4-methyl-2-pentanone, 2-hexanone, 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene in all samples were qualified as estimated (UJ). Based on unacceptable percent difference (%D) values in the associated calibration standards, results for bromomethane in MW5, MW6A, MW4, Field Blank, and Trip Blank were qualified as estimated (UJ).

Negative %D values will result in a low bias for positive detects and positive %D values will result in a high bias for positive detects.

III. Blanks: Laboratory Method Blanks, Field Blanks, and Trip Blanks

Laboratory method blanks (MB) were prepared with each analytical batch. No target analytes were detected in any of the VOA MBs with the exception of bromomethane ($1.0 \mu\text{g/L}$) in the MB on 10/06/16 at 10:57 AM. No action was taken since bromomethane was not detected in any site samples.

A field blank (FB) was submitted with the samples in this data set. No target analytes were detected in the FB with the exception of 1,4-dioxane ($220 \mu\text{g/L}$). Based on field blank contamination, positive results for 1,4-dioxane reported at less than the reporting limit were qualified as less than the reporting limit (U).

A trip blank (TB) was submitted with the samples in this data set. No target analytes were detected in the TB.

IV. Surrogate Compounds (Organic)

Percent recoveries of the VOA surrogates (1,2-dichloroethane- d_4 , 4-bromofluorobenzene, dibromofluoromethane, and toluene- d_8) were correctly reported on the Form summaries and were within acceptance limits for the samples.

V. Internal Standards (IS)

All IS areas and retention times (RT), as reported on the Form VIII summaries, were within the established QC limits for all reported sample analyses in this data package.

VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample MW-5 was prepared as a water-matrix MS/MSD pair. Percent recoveries (%R) and relative percent differences (%RPD) between paired recoveries were correctly calculated and accurately reported on the Form III summaries for the spiked analytes in the organic analyses. All reported %R values and RPD values for laboratory precision were acceptable with the following exceptions: 1,1,1-trichloroethane (140%MSD), chloromethane (140%/170%), bromomethane (24%/32%), trans-1,2-dichloroethene (140%MSD), 1,2-dichlorobenzene (RPD22%), acetone (160%MSD), Carbon disulfide (140%MSD), o-chlorotoluene (140%MSD, 24%RPD), p-chlorotoluene (140%MSD, 24%RPD), naphthalene (49% MS, 38%RPD), 1,2,4, trichlorobenzene (61%MS, 28%RPD), 1,2,3-trichlorobenzene (60%MS, 31%RPD), 1,4-dioxane (0%/0%), p-ethyltoluene (140%MSD, 24%RPD), 1,2,4,5-tetramethylbenzene (28%RPD), and trans-1,4-dichloro-2-butene (23%RPD).

Based on unacceptable recoveries in the MS/MSD analyses, results for bromomethane, naphthalene, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene were qualified as estimated in MW-5. Based on no recovery in the MS/MSD analyses, the result for 1,4-dioxane in MW-5 was rejected (R).

VII. Field Duplicate Precision

Sample DUPE was identified as a field duplicate of MW-3. All target analytes greater than the quantitation limit exhibited acceptable reproducibility (<30%RPD-Limit) with the following exceptions:

Sample ID	Compound	Sample Result	Duplicate Result	RPD	Absolute Difference	RL	Action
MW-3	1,4-dioxane	860	ND	100	340	230	None <5X, previously qualified based on FB.
	Chloroethane	320	750	80	430	7	J

Based on poor reproducibility in the field duplicate pair, results for chloroethane in MW-3 and DUPE were qualified as estimated (J).

VIII. Laboratory Control Samples/Accuracy Check

Laboratory control samples and/or laboratory control sample duplicates (LCS/LCSD) were performed at the required frequency and results were provided on Form III-like summaries for all analyses. Recoveries and RPD values were acceptable and within the laboratory derived recovery limits with the following exceptions: naphthalene (57%/60%), 1,2,4, trichlorobenzene (66%/68%), and 1,2,3-trichlorobenzene (LCSD 69%) in the analytical sequence on October 5, 2016, and naphthalene (58%/59%), 1,2,4, trichlorobenzene (65%/66%) and 1,2,3-trichlorobenzene (68%/68%) in the analytical sequence on October 6, 2016. Based unacceptable recoveries in the LCS/LCSD analyses, results for naphthalene, 1,2,4, trichlorobenzene, and 1,2,3-trichlorobenzene in all water samples were qualified as estimated (UJ).

IX. Target Compound Identification

Reported target compounds were correctly identified with supporting spectra present for all field samples in this data set.

X. Compound Quantitation and Reported Quantitation Limits

Target compound concentrations and quantitation limits were appropriately reported on the Form I's.

The result for chloroethane in the original analysis of MW-6A was detected outside the linear range of the instrument. This sample was appropriately reanalyzed at a subsequent dilution by the laboratory (MW-6AD). The result for chloroethane in the original analysis of MW-6A was rejected (R) due to detection of this compound outside the linear range of the instrument and to avoid confusion since a more quantitatively accurate result was available in the subsequent dilution analysis. The result for this

compound was replaced with the acceptable concentration from the more diluted analysis of this sample (MW-6AD).

An “E” qualifier was appropriately applied by the laboratory to sample Form I result when the concentration of the target analyte was greater than the instrument calibration range. However, a “D” qualifier was not applied by the laboratory to the positive result from diluted sample analysis. The validator removed the laboratory-applied “E” qualifier.

The laboratory appropriately applied “J” qualifiers to the sample Form I’s when the concentration of an analyte was less than the sample-specific quantitation limit. The validator did not remove these qualifiers. All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column. All non-detects have been reported with a “U” on the electronic data deliverables (EDD). The validator recommends that the non-detects reported to the MDL be reported as estimated (“UJ”) since these values are not supported with a calibration point within the initial calibration curve. The laboratory-generated quantitation limits are provided on the Form I’s and on the EDD.

XI. System Performance

The analytical system appears to have been working satisfactorily at the time of these analyses based on evaluation of the available raw data.

XII. Overall Evaluation of Data

Based on the validation effort, results for the VOA analytes in these samples were determined to be valid as reported with the following exceptions:

- Based on unacceptable percent difference (%D) values in the associated calibration standards, results for dichlorodifluoromethane, chloromethane, 1,1-dichloropropene, 4-methyl-2-pentanone, 2-hexanone, 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene in all samples were qualified as estimated (UJ).
- Based on unacceptable percent difference (%D) values in the associated calibration standards, results for bromomethane in MW5, MW6A, MW4, Field Blank, and Trip Blank were qualified as estimated (UJ).
- Based on field blank contamination, positive results for 1,4-dioxane reported at less than the reporting limit were qualified as less than the reporting limit (U).

- Based on unacceptable recoveries in the MS/MSD analyses, results for bromomethane, naphthalene, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene were qualified as estimated in MW-5.
- Based on no recovery in the MS/MSD analyses, the result for 1,4-dioxane in MW-5 was rejected (R).
- Based on poor reproducibility in the field duplicate pair, results for chloroethane in MW-3 and DUPE were qualified as estimated (J).
- The result for chloroethane in the original analysis of MW-6A was rejected (R) due to detection of this compound outside the linear range of the instrument and to avoid confusion since a more quantitatively accurate result was available in the subsequent dilution analysis. The result for this compound was replaced with the acceptable concentration from the more diluted analysis of this sample (MW-6AD). An “E” qualifier was appropriately applied by the laboratory to sample Form I result when the concentration of the target analyte was greater than the instrument calibration range. However, “D” qualifier was not applied by the laboratory to the positive result from diluted sample analysis. The validator removed the laboratory-applied “E” qualifier.
- The laboratory appropriately applied “J” qualifiers to the sample Form I’s when the concentration of an analyte was less than the sample-specific quantitation limit. The validator did not remove these qualifiers. All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column. All non-detects have been reported with a “U” in the Electronic Data Deliverables (EDD). The validator recommends that the non-detects reported to the MDL be reported as estimated (code “UJ”), as these values are not supported with a calibration point within the initial calibration curve. The validator did not remove these qualifiers.

XIII. Documentation

The chain of custody (COC) records were present and accurately completed for all reported samples in this data set and the data package was complete with the following exceptions:

- The original case narrative did not note method non-compliances that should have been identified in the case narratives as required by the laboratory’s NYS NELAP/ELAP accreditation and NYS DEC DER-10 ASP Category B reporting standards. For all future NYS NELAP reports requiring NYS ASP Category B, reporting standards should request a full case narrative with all of the non-conformances noted.

- It should be noted that the method detection limits (MDLs) study provided in the data package is more than year old (2012) and according to the SW846 methodologies, these studies should be updated annually. The MDLs reported on the Form I do not match the MDLs reported on the MDL Summary Form; however, the values are within the documented LOD range specified.

This validation report shall be considered part of the data package for all future distributions of the volatile organic analysis (VOA) data.

ATTACHMENT A

**QUALIFIED DATA SETS and REASON CODES
SDG No. L1630897
Volatiles in Water Samples
(NYS EQUIS EDD Submitted Electronically)**

Qualified Data Set

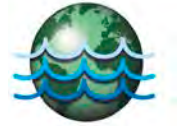
#sys_sample_			result_	reportabl	detect_	lab_qualif	validator_	Interpreted	reporting_	detection_	result_	result_	
code	cas_rn	chemical_ name	value	e_ result	flag	iers	qualifiers	_qualifiers	limit	unit	comment	lab_sdg	
MW-3	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
MW-3	75-00-3	CHLOROETHANE	320	Yes	Y		J	J		25 ug/l	i	L1630897	
MW-3	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		25 ug/l	c	L1630897	
MW-3	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		25 ug/l	c	L1630897	
MW-3	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		25 ug/l	c	L1630897	
MW-3	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		25 ug/l	c	L1630897	
MW-3	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
MW-3	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		25 ug/l	c	L1630897	
MW-3	123-91-1	1,4-DIOXANE	2500	Yes	N	J	U	U		2500 ug/l	d	L1630897	
MW-3	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
MW-5	74-83-9	BROMOMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c, g	L1630897	
MW-5	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-5	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-5	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c, g	L1630897	
MW-5	123-91-1	1,4-DIOXANE	740	No	Y		R	R		250 ug/l	g	L1630897	
MW-5	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-5	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-5	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		2.5 ug/l	c, g	L1630897	
MW-5	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-5	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c, g	L1630897	
MW-6A	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-6A	123-91-1	1,4-DIOXANE	250	Yes	N	J	U	U		250 ug/l	d	L1630897	
MW-6A	74-83-9	BROMOMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-6A	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-6A	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-6A	75-00-3	CHLOROETHANE	380	No	Y	E	R	R		2.5 ug/l	n	L1630897	
MW-6A	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-6A	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-6A	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-6A	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-6A	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-4	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-4	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
MW-4	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	74-83-9	BROMOMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
MW-4	123-91-1	1,4-DIOXANE		Yes	N	U	U	U		250 ug/l	d	L1630897	
DUPE	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		100 ug/l	c	L1630897	
DUPE	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
DUPE	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		100 ug/l	c	L1630897	
DUPE	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
DUPE	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
DUPE	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
DUPE	75-00-3	CHLOROETHANE	750	Yes	Y		J	J		50 ug/l	i	L1630897	
DUPE	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		100 ug/l	c	L1630897	
DUPE	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		50 ug/l	c	L1630897	
FIELD BLANK	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
FIELD BLANK	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
FIELD BLANK	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
FIELD BLANK	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
FIELD BLANK	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
FIELD BLANK	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
FIELD BLANK	74-83-9	BROMOMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
FIELD BLANK	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
FIELD BLANK	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	591-78-6	2-HEXANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
TRIP BLANK	87-61-6	1,2,3-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	74-87-3	CHLOROMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	108-10-1	4-METHYL-2-PENTANONE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	
TRIP BLANK	91-20-3	NAPHTHALENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	563-58-6	1,1-DICHLOROPROPENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	120-82-1	1,2,4-TRICHLOROBENZENE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	74-83-9	BROMOMETHANE		Yes	N	U	UJ	UJ		2.5 ug/l	c	L1630897	
TRIP BLANK	75-71-8	DICHLORODIFLUOROMETHANE		Yes	N	U	UJ	UJ		5 ug/l	c	L1630897	

Validation Reason Codes

Reason Code	Explanation
a	Holding times exceeded
b	Temperature or chemical preservation issue
c	Calibration standard exceedance (initial and/or continuing) and low level checks
d	Laboratory or field blank contamination
e	Surrogate standard recovery exceedance
f	Internal standard area exceedance
g	Spiked standard (LCS, MS, BS, MSD, LCSD, BSD) recovery exceedance
h	Spiked Duplicate RPD exceedance
i	Field duplicate RPD exceedance
j	Serial dilution results issue
k	Chromatographic resolution, interference, or pattern match issue
l	Clean-up standard recovery exceedance
m	Sample preparation issue
n	Quantitation issue
o	Dual column RPD exceedance
p	Compound identification issue
q	Low % solids
r	defined in body of report
z	no change made during validation
sc	QAPP Specific: Based on the selected VOC soils collection method employed at the site (5030), all VOC samples with results less than 200 µg/kg will be qualified as biased low
tic	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate

APPENDIX E
Ground Intrusive Work Notification

P.W. GROSSER CONSULTING



March 28, 2016

Mr. Robert DeCandia
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233

RE: Notification of Bulkhead Replacement
1170 Atlantic Avenue, Baldwin, New York
Site # V00523

Dear Mr. DeCandia:

P.W. Grosser Consulting, Inc. (PWGC) has prepared this letter to describe the ground-intrusive work being performed at the CubeSmart (formerly Safeguard) storage facility located at the subject address, and the actions being taken to conform with the site-specific Site Management Plan (SMP), April 2015.

An Excavation Work Plan (EWP) is included as Appendix A of the SMP. The notification is based on the specifications of the EWP and our March 17, 2016 telephone conversation in which we discussed the bulkhead work. The work will be performed in compliance with the EWP, 29 CFR 1910.120, and the Health and Safety Plan (HASP) attached to the SMP.

The subject site is a manmade bulkheaded peninsula which consists primarily of dredge spoils from the surrounding Milburn Creek. The owner of the property has determined that most of the bulkhead on the west side of the property and a portion of the bulkhead in the northeast portion of the property has deteriorated and requires replacement. A figure indicating the areas of bulkhead replacement is attached. The findings of the Remedial Investigation (RI) indicate that the residual area of contamination is located in the southeast portions of the site. Based on these findings, it is likely that the bulkhead work is being performed outside the area of residual contamination. In order to facilitate the replacement of the seawall, soil excavation will occur up to 10 feet behind the seawall as indicated on the attached figure. The bulkhead work began at the southwest corner of the subject site and will move toward the north. New sheeting is being installed and attached to the existing deadmen. The deadmen are not being replaced. The excavated soils will be temporarily stockpiled on plastic sheeting adjacent to the excavation. It is anticipated that excavated soils will be returned to the same location and that soil will not need to be brought in or disposed off-site.

CubeSmart contracted SeaPro Marine Dockbuilders Inc. of Bellmore, New York to replace the bulkhead. The NYSDEC issued a GP-1-13-001 Tidal Wetland Bulkhead Replacement with Dredging General Permit (1-2820-03089/00012). Bulkhead permits were also obtained from the Town of Hempstead and The Army Corps of Engineers. The permits are attached as **Appendix A**.

Excavated soils are screened with a photo-ionization detector (PID) equipped with an 11.7 eV lamp capable of detecting the chlorinated solvents which are the contaminants of concern at the subject site. Soils which exhibit a PID response above background levels will be segregated and sampled. Soil samples will be sent to a New York State Department of Health (NYSDOH) certified laboratory for analysis of the NYSDEC Target Compound List (TCL) of volatile organic compounds (VOCs) by USEPA Method 8260.

Analytical results will be compared to the NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (SCOs) to determine appropriateness for on-site re-use. Soils are acceptable for on-site re-use if detected VOCs are within Commercial Use SCOs. Soils with VOC concentrations above Commercial Use SCOs will be disposed off-site in accordance with federal, state, and local requirements.

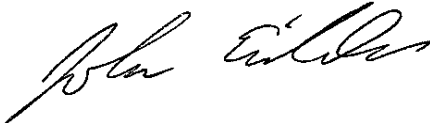
Air monitoring will be performed during excavation activities in accordance with the Community Air Monitoring Plan (CAMP), PWGC, April 2015, which was previously submitted as an Appendix to the SMP. A PID and dust meter will be utilized to measure VOCs and dust levels at property perimeter locations and in the area of the excavation.

The excavation work will not impact the monitoring system (i.e., the groundwater monitoring wells that are utilized for periodic monitoring).

The bulkhead work is expected to be completed in May 2016. Please contact me with any questions or comments.

Very truly yours,

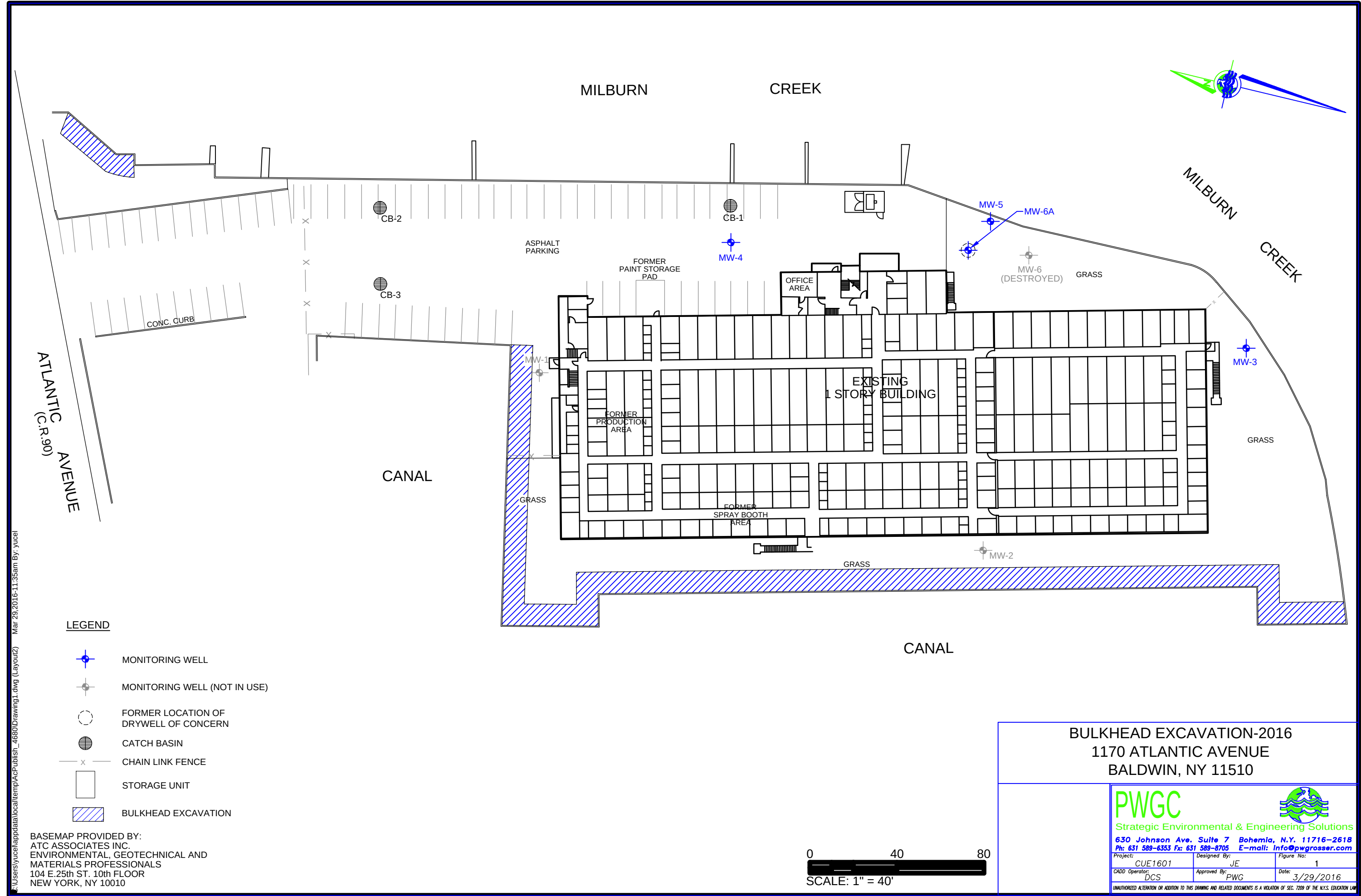
P.W. Grosser Consulting,



John D. Eichler
Project Manager

Cc: Walter Parish, NYSDEC
Mark Shortlidge, CubeSmart

FIGURE



J:\Users\yucel\appdata\local\temp\AcPublish\4680\Drawing1.dwg (Layout2) Mar 29 2016 11:35am By: yucel

APPENDIX A

Bulkhead Permits



New York State Department of Environmental Conservation
REQUEST FOR AUTHORIZATION for
GP-1-13-001 Tidal Wetland Bulkhead Replacement With Dredging General Permit
Under the Environmental Conservation Law Article 25 and 15

1-2820-03089/00012

1. Name Applicant		Telephone	Email
CUBESMART STORAGE C/O MARK SHORTLIDGE		610-535-5451	MSHORTLIDGE@CUBESMART.COM
Mailing Address		Post Office City	State Zip
5 OLD LANDCASTER RD		MALVERNE	PA 19335
Applicant Must be (check all that apply): ☒ Owner ☐ Operator ☐ Lessee		Taxpayer ID (if applicant is NOT an individual):	
2. Name of Property Owner (if different than Applicant)			
CUBESMART STORAGE		Telephone	Email
Mailing Address		516-546-6536	
1170 ATLANTIC AVE		Post Office City	State Zip
		BALDWIN	NY 11510
3. Contact / Agent Name			
OCEAN CONSULTING		Telephone	Email
Mailing Address		516-764-8534	OCEANCON@GMAIL.COM
262 WEIDNER AVE		Post Office City	State Zip
		OCEANSIDE	NY 11572
4. Project / Facility Name CUBESMART STORAGE			
Project Location - street address, if applicable, or provide directions and distances to roads, bridges and bodies of water:			
1170 ATLANTIC AVE, BALDWIN NY 11510			
Property Tax Map Section / Block / Lot Number		Proposed Start Date	Estimated Completion Date
54-46-62		ASAP	12/31/17
Town / Village / City		Stream/Waterbody Name	
HEMPSTEAD/BALDWIN		MILBURN CREEK/DUG CANAL	
County		Name of USGS Quadrangle Map	
NASSAU		FREEPORT	
Location Coordinates: Enter NYTMs in kilometers OR Latitude/Longitude in degrees, minutes, seconds			
NYTM - E		NYTM - N	Latitude Longitude
			40 38' 27" -73 35' 57"
5. Description of Project			
REMOVE AND REPLACE 737 FT EXISTING BULKHEAD NAVY STYLE UP TO 18" HIGHER. CLAMSHELL DREDGE A 10' WIDE AREA TO -4' BELOW MLW FOR 25CY AND PLACE AS BACKFILL. PLACE AN ADDITIONAL 100CY CLEAN FILL AS NEEDED.			
6. Certification. I have read this permit and will construct this project in compliance with the terms and conditions of the permit and the Environmental Conservation Law and applicable regulations. I understand that any false or inaccurate statements made in the application for this permit are punishable as a Class A misdemeanor. As a condition of this permit I accept full legal responsibility for all damage direct or indirect of whatever nature and by whomever suffered arising out of the project described herein and agree to indemnify and save harmless the state from suits actions damages and costs of every name and description resulting from this project. If applicant is not the owner both must sign the application. If you are submitting this application electronically you may print your name and check the box that certifies you are the responsible applicant or property owner in lieu of providing an original signature.			
Signature of Applicant		☐ By checking this box, I certify that I am the responsible Applicant	Printed Name Date
Signature of Owner		☒ By checking this box, I certify that I am the responsible Owner	Printed Name Date
			MARK SHORTLIDGE 1/11/2016
Signature of Agent / Contact			Printed Name Date
			JOSEPH ENRICO 1-5-16

No work is authorized until the permittee receives the signed
Part 2 - PROJECT AUTHORIZATION BY NYSDEC



Part 2 – PROJECT AUTHORIZATION BY NYSDEC
for GP-1-13-001 Tidal Wetland Bulkhead Replacement With Dredging General Permit

For NYSDEC Use Only

- ☒ Use of General Permit GP-1-13-001, Tidal Wetland Bulkhead With Dredging General Permit for the project described on Part 1 – Request for Authorization is AUTHORIZED.

Effective Date of
Authorization

1/22/2016

Expiration Date of
Authorization

3/11/2019

Additional Information

- ☐ Use of General Permit GP-1-13-001, Tidal Wetland Bulkhead With Dredging General Permit for the project described on Part 1 – Request for Authorization is NOT AUTHORIZED.

Additional Information

NYSDEC AuthorizationAuthorized
Signature

Printed Name

Mark Carrara

Title

Deputy Regional Permit Administrator

Address

NYS Department of Environmental Conservation
Region 1
SUNY @ Stony Brook
50 Circle Drive
Stony Brook, NY 11790-3409

Date

1/22/2016

DEC Permit ID

1-2820-03089/00012

cc

• Jean Consulting
• BOH-PD
• File

New York State
Department of Environmental Conservation



The Department of Environmental Conservation (DEC) has issued permit(s) pursuant to the Environmental Conservation Law for work being conducted at this site. For further information regarding the nature and extent of work approved and any Departmental conditions on it, contact the Regional Permit Administrator listed below. Please refer to the permit number shown when contacting the DEC.

Regional Permit Administrator

ROGER EVANS

Permit Number

1-2820-03089/00012

Expiration Date

3/11/2019

NOTE: This notice is NOT a permit



PERMIT
Under the Environmental Conservation Law (ECL)

GENERAL PERMIT GP-1-13-001
Tidal Wetland Bulkhead Replacement with Dredging

Permittee and Facility Information

Permit Issued To:

Applicant Listed
on Request for
Authorization

Facility:

Facility Listed
on Request for
Authorization

Applicable DEC Region(s): 1

General Permit Authorized Activity: This General Permit applies only in areas on the south shore of Long Island, west of the Robert Moses Causeway to the Queens County border.

Areas excluded from this General Permit include: areas of vegetated tidal wetlands; any ocean shore; the ocean front of Long Beach Island; and all of the Jones Beach State Park and Robert Moses State Park Barrier Islands, including:

- Oak Beach
- Oak Island
- Captree State Park
- Gilgo State Park
- Gilgo Beach State Park
- Gilgo Beach
- West Gilgo Beach
- Tobay Beach Town Park
- Jones Beach State Park
- Cedar and Over Look Town Parks
- Robert Moses State Park

An individual permit is required for projects in these excluded areas.

This General Permit is for:

- A. The removal and replacement of a functional and lawfully existing bulkhead (including returns and parallel capping boardwalks) in the same location as the existing bulkhead.
- The replacement bulkhead may be up to 18 inches higher in elevation than the existing bulkhead.
 - If a bulkhead is non-functional, an individual permit must be obtained.

- B. Maintenance dredging associated with replacement of the functional bulkhead, with the placement of the resulting dredged material behind the replacement bulkhead or elsewhere on the project site. Dredging is limited to:

- 10 feet seaward of the bulkhead on bulkheaded canals, or 5 feet seaward of the bulkhead on bayfronts, and
- a depth of -4 feet at Mean Low Water.
- Dredging in areas of bayfront is prohibited from January 15th through September 30th of each year to protect spawning shellfish and/or spawning finfish.



Any proposed alteration or change in the bulkhead location or configuration or dredge area at an individual site is not authorized by this General Permit; such work will require an individual permit.

This General Permit is valid strictly for the activities listed in this General Permit Authorized Activity. Any other structures that are shown on the project plan (e.g., docks, cantilivered decks, boat lifts and floats, etc.) that are not lawfully existing, will not be validated or "legalized" by this use of this permit. Structures that are not lawfully existing are subject to possible Department legal action.

Permit Authorizations

Tidal Wetlands - Under Article 25

Effective Date: _____ Expiration Date: _____

Excavation & Fill in Navigable Waters - Under Article 15, Title 5

Effective Date: _____ Expiration Date: _____

Water Quality Certification - Under Section 401 - Clean Water Act

Effective Date: _____ Expiration Date: _____

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

General Permit Authorized by

Permit Administrator: ROGER EVANS , Regional Permit Administrator

Address: NYSDEC REGION 1 HEADQUARTERS
SUNY @ STONY BROOK|50 CIRCLE RD
STONY BROOK, NY 11790-3409

Authorized Signature: _____ Date: ____/____/____

Permit Components

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS



**NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following
Permits: WATER QUALITY CERTIFICATION; EXCAVATION & FILL IN
NAVIGABLE WATERS; TIDAL WETLANDS**

1. Request for Authorization Prior to the use of this General Permit for a project, the applicant must submit a Request for Authorization Form and the following information to the Regional Permit Administrator:

- a. Project location map
- b. Project plans
- b. Survey depicting the bulkhead
- c. Recent color photographs of the site
- d. Permission to Inspect Property Supplement.

Upon review of the project, the NYSDEC Regional Permit Administrator will determine if the project can be issued under this General Permit. Written confirmation of authorization must be received prior to any work.

NYSDEC retains the right to exclude a proposed activity from authorization under this General Permit, and to require the permittee to obtain an individual permit. Exclusions may be due to situations where the NYSDEC has identified a particular resource concern that may be impacted by the proposed activity, such as endangered species habitat, sensitive submerged aquatic vegetation or vegetated tidal wetlands. NYSDEC may limit or exclude dredging from the proposed project. Applicants may pursue the limited or excluded dredging in a standard permit process.

2. Conformance With Plans All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by the applicant or applicant's agent.

3. Bulkhead Replacement A functional bulkhead (including returns and parallel capping boardwalks) may be replaced. Bulkhead height shall be no more than 18 inches higher than the height of the existing bulkhead.

4. Bulkhead Materials Material used in construction of bulkheads shall be limited to treated wood, naturally rot-resistant untreated wood, vinyl, plastic, fiberglass or steel.

5. No Disturbance There shall be no disturbance to protected buffer areas (areas previously designated as such and to remain in a natural and/or undisturbed state by the Department or another governmental agency or public entity) as a result of the permitted activity, except for disturbance necessary for bulkhead replacement and restoration.

6. Excavation for Bulkhead/Structure Prior to any construction or removal of bulkheads and other shoreline stabilization structures all backfill shall be excavated landward of the structure and retained so as not to enter the waterway, tidal wetland or protected buffer area.

7. Complete Bulkhead Prior to Backfilling The new bulkhead shall be completed prior to placement of any fill material behind such structures.



8. Dredging Dredging associated with bulkhead replacement shall only occur in the area 10 feet seaward of the bulkhead on bulkheaded canals, or 5 feet seaward of the bulkhead on bayfronts, and a depth of -4 feet at Mean Low Water.

9. Bay-Front Dredging Prohibition Period Dredging is specifically prohibited from January 15th through September 30th of each year to protect spawning shellfish and/or spawning finfish in areas of bayfront, or as specified on the Request for Authorization Part 2 - Project Authorization by NYSDEC.

10. One-time Dredging Only Dredging shall be undertaken only once in association with the bulkhead replacement.

11. Restrict Spillage, Use Closed Bucket During the dredging operation, the permittee and his contractor shall prevent spillage of sediment during excavation and haulage. Dredging shall be accomplished with a clam shell or other closed bucket equipment.

12. No Hydraulic Dredging Hydraulic dredging is not allowed.

13. Dragline Prohibited The use of a dragline for dredging is strictly prohibited.

14. No Side-casting or Temporary Storage Excavated sediment shall be placed directly into the approved disposal/dewatering site or conveyance vehicle. No side-casting (double dipping) or temporary storage of dredged material is authorized.

15. Disposal of Materials Any material dredged or excavated to facilitate placement of the bulkhead shall be retained on the project site above the reach of high water or behind the completed wall to prevent its entry into the water. Off-site, upland disposal of dredged material beyond NYSDEC Tidal Wetland jurisdiction is not authorized by this General Permit and requires an individual site-specific permit.

16. Leave a Uniform Bottom Elevation All dredging shall be conducted so as to leave a uniform bottom elevation free of mounds or holes.

17. Clean Fill Only All fill shall consist of clean sand, gravel, or soil (not asphalt, slag, flyash, broken concrete or demolition debris).

18. Grade to Match That Adjacent to Bulkhead All fill must be graded to match the elevation of the land immediately adjacent to the bulkhead.

19. No Runoff Over or Through Bulkhead or into Wetland There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland or protected buffer area.

20. Stabilize Disturbed Areas All areas of soil disturbance resulting from this project shall be stabilized immediately following project completion or within 30 days of commencement of work, whichever comes first. The disturbed areas must be stabilized with appropriate vegetation (grasses, etc.).



21. Contain Exposed, Stockpiled Soils All disturbed areas where soil will be temporarily exposed or stockpiled for longer than 48 hours shall be contained by a continuous line of staked haybales / silt curtains (or other NYSDEC approved devices) placed on the seaward side between the fill and the wetland or protected buffer area. Tarps are authorized to supplement these approved methods.

22. Seed, Mulch Disturbed Areas If seeding is impracticable due to the time of year, a temporary mulch shall be applied within 5 days and final seeding shall be performed at the earliest opportunity when weather conditions favor germination and growth; but not more than six months after project completion and no later than the permit expiration date.

23. No Construction Debris in Wetland or Adjacent Area Any debris or excess material from construction of this project shall be completely removed from the adjacent area (upland) and removed to an approved upland area for disposal. No debris is permitted in wetlands and/or protected buffer areas.

24. Equipment Storage The storage of construction equipment and materials shall be confined to within the project work site and upland areas landward of the bulkhead or barge.

25. Docks, Floats Installation of additional docks or floats is not authorized by this permit.

26. No Structures on Pilings No structures are to be constructed on pilings without further authorization of the Department.

27. Remove, Replace Mooring Structures Mooring structures attached to or in proximity to the bulkhead or within the project area may be temporarily removed in order to facilitate bulkhead replacement. These structures may be replaced with the same material, in the same dimensions, in the same configuration and in the same location as they were prior to bulkhead replacement.

28. No Interference With Navigation There shall be no unreasonable interference with navigation by the work herein authorized.

29. State May Require Site Restoration If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

30. State Not Liable for Damage The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.



31. State May Order Removal or Alteration of Work If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

32. Precautions Against Contamination of Waters All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS

1. Water Quality Certification The NYS-Department of Environmental Conservation hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306 and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. Facility Inspection by The Department The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.



2. Relationship of this Permit to Other Department Orders and Determinations Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. Applications For Permit Renewals, Modifications or Transfers The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC REGION 1 HEADQUARTERS
SUNY @ STONY BROOK | 50 CIRCLE RD
STONY BROOK, NY 11790-3409

4. Submission of Renewal Application The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Tidal Wetlands, Excavation & Fill in Navigable Waters, Water Quality Certification.

5. Permit Modifications, Suspensions and Revocations by the Department The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;
- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. Permit Transfer Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.



NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090

REPLY TO
ATTENTION OF:

CENAN-OP-RE

DATE: JAN 25 2015

SUBJECT: Permit Application File Number NAN-2016-00069-EMC
by Cubesmart Storage

MEMORANDUM FOR:
Cubesmart Storage
Care of Mark Shortlidge
5 Old Lancaster Road
Malvern, Pennsylvania 19335

This office has received your application for a Department of the Army permit; and in accordance with Title 33 of the Code of Federal Regulations Part 325.2(a) (1) it has been assigned the 18-character application file number shown above. To avoid misfiled and lost correspondence, please put this unique 18-character application number on all correspondence, (mail, fax, and e-mail) regarding this application, including the envelope if you choose to mail items.

2. Your application file is assigned to application reviewer / project manager:
Courtney McCathern 917-790-8091
Courtney.McCathern@usace.army.mil

Our facsimile machine number is 212-264-4260. To ensure the most efficient processing of your permit application please provide an email address to the project manager indicated above within five business days of receiving this acknowledgement memorandum.

3. In accordance with Title 33 of the Code of Federal Regulations Part 325.2, within fifteen business days of the date of this acknowledgement memorandum, you, or your permit application agent, should be receiving via facsimile machine correspondence specifying what additional items or information, if any, must be submitted to the application reviewer in order for this office to find your permit application "complete for Federal processing".

4. The Corps of Engineers strives to make a final permit application decision as soon as reasonably possible. For example, for non-controversial individual Standard Permit applications, the USACE National Performance goal is to make that decision within 120 calendar days of our receipt of the final item or information which makes the specific permit application file "complete for Federal processing".

5. You are advised not to undertake any activity in regulated waters and/or wetlands of the United States until after you have received the required Department of the Army permit.

EASTERN PERMITS
REGULATORY BRANCH

Copy furnished to:

Ocean Consulting

ATTN: Joseph Enrico

PLEASE INCLUDE 18-CHARACTER FILE NUMBER ON ALL CORRESPONDENCE

Council Members
DOROTHY L. GOOSBY
GARY HUDES
EDWARD A.
AMBROSINO
BRUCE A. BLAKEMAN
ERIN KING SWEENEY

NASRIN G. AHMAD
Town Clerk

DONALD X. CLAVIN, JR.
Receiver of Taxes

STEPHEN D'ESPOSITO
Commissioner

Town of Hempstead
Department
of
Conservation & Waterways

LIDO BOULEVARD
P.O. BOX 180
POINT LOOKOUT, N.Y. 11569-0180
(516) 431-9200



ANTHONY J. SANTINO
Supervisor

February 3, 2016

CubSMART Storage
5 Old Lancaster Road
Malverne, Pennsylvania 19335

Dear Sirs,

Please be advised that your application for Structures in Waterways has been approved and Amended Permit No. 1161 has been issued to you in accordance with the application and plans submitted.

The permit must be kept on the premises and be available for inspection at all times.

We direct your attention to the enclosed forms which require you to notify this office prior to commencement of work and upon completion, and to the condition on the permit which requires you to obtain further authorization to do this work from:

Department of the Army
New York District, Corps of Engineers
Regulatory Affairs
26 Federal Plaza
New York, New York 10278-0090
(917) 790-8511

New York State Department of Environmental Conservation
Department of Regulatory Affairs
Building 40 - SUNY - Room 219
Stony Brook, New York 11794
(516) 444-0360

Sincerely yours,


ROBERT WENEGENOFSKY
Environmental Analyst

RW:nap
Enclosures

**TOWN OF HEMPSTEAD
DEPARTMENT OF
CONSERVATION AND WATERWAYS**

PERMIT

STRUCTURES IN WATERWAYS

Type of Use: Commercial (☒) Residential ()
Permit Number Amend No. 1161 Date 2/3/16
Sec. 54 Block 46 Lot/s 62
Issue to Cubsmart Storage
Address 1170 Atlantic Avenue, Baldwin, New York
Name of Waterway (s) Milburn Creek and Canal

A permit to construct and maintain in safe condition:

Amend Permit No. 1161 to remove and replace
479 l.f. of bulkhead per Plan dated 1/12/16

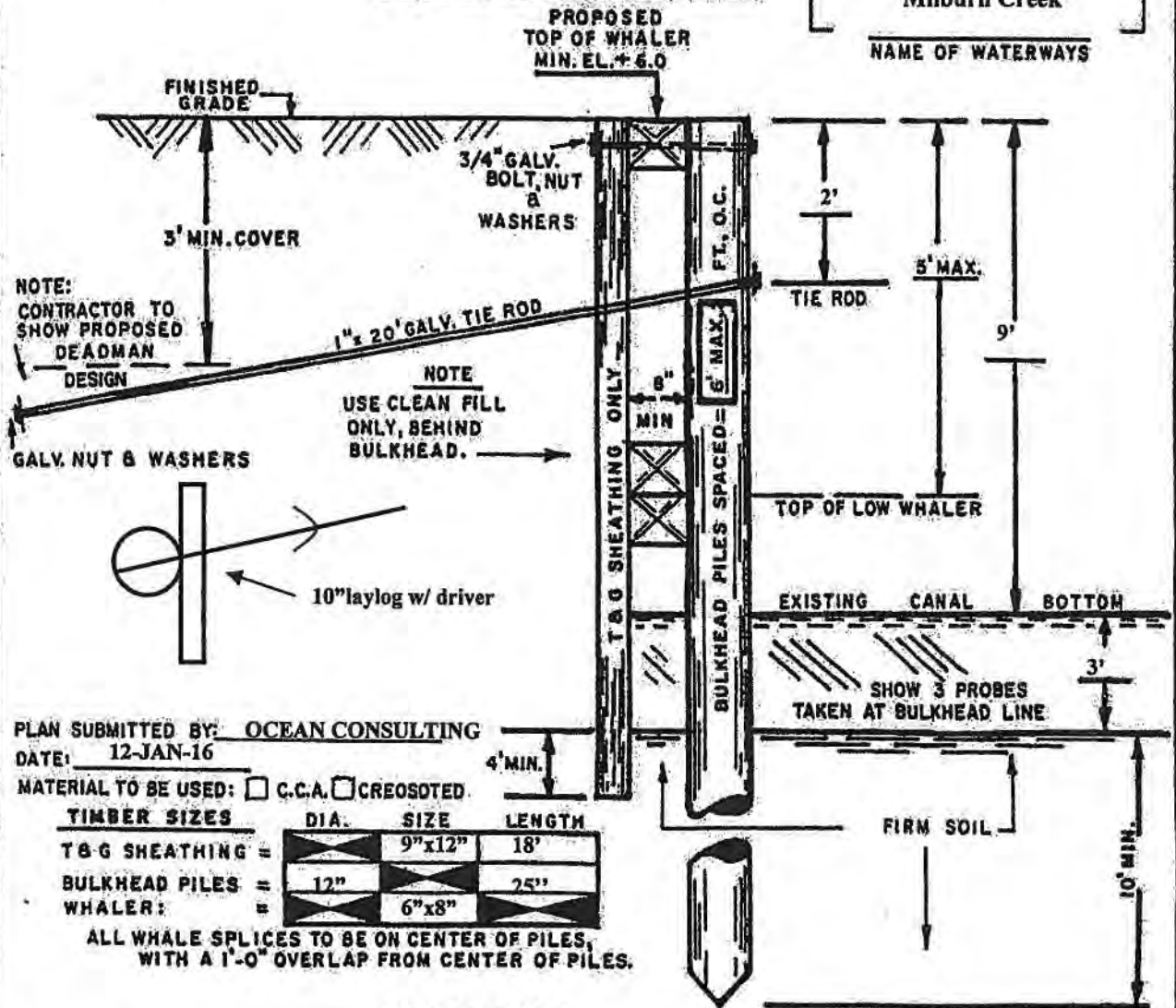
GENERAL CONDITIONS

1. No structure shall infringe on adjacent property owner's riparian rights or in any way cause a hazard to navigation.
2. This permit must be conspicuously displayed at the site of work.
3. Permit issued subject to inspection at all times.
4. All bulkheading to be constructed wholly within property line of ownership.
5. Granting of this permit does not relieve the applicant of the responsibility of obtaining any other permission, consent or approval from the U.S. Army Corps of Engineers, N.Y.S. Dept. of Environmental Conservation or local government which may be required.
6. The permittee has accepted expressly, by the execution of the application, the full legal responsibility for all damages, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and has agreed to indemnify and save harmless the Town from suits, actions, damages and costs of every name and description, resulting from the said project.



PERMIT ADMINISTRATOR

TYPICAL BULKHEAD PLAN



PLAN SUBMITTED BY: OCEAN CONSULTING
DATE: 12-JAN-16

MATERIAL TO BE USED: ☐ C.C.A. ☐ CREOSOTED.

TIMBER SIZES	DIA.	SIZE	LENGTH
T & G SHEATHING =	9"	9"x12"	18'
BULKHEAD PILES =	12"	6"x8"	25'
WHALER:			

ALL WHALER SPLICES TO BE ON CENTER OF PILES,
WITH A 1'-0" OVERLAP FROM CENTER OF PILES.

GENERAL NOTES

- 1 - ALL TIMBER SHALL BE PRESSURE TREATED WITH GRADE 1 CREOSOTE FOR A MINIMUM NET RETENTION OF 12 POUNDS PER CUBIC FOOT OF WOOD. ALL WOOD WHICH IS EXPOSED BY CUTTING OR TRIMMING, SHALL BE PAINTED WITH TWO COATS OF COAL TAR CREOSOTE.
OR C.C.A. TIMBER, EXCEPT DEADMAN, SHALL BE PRESSURE TREATED TO A RETENTION OF 2.5 POUNDS PER CUBIC FOOT OF WOOD. ALL EXPOSED WOOD AFTER TRIMMING, TO BE HAND PAINTED WITH C.C.A.
- 2 - BULKHEAD PILES SHALL BE DENSE CONSTRUCTION GRADE DOUGLAS FIR OR SOUTHERN PINE DENSE STRUCTURAL GRADE 58, MIN. SIZE 10"x 8"@ 3' FROM ENDS. DEADMAN WOOD TO BE CREOSOTED OAK.

PROPERTY OWNER	CONTRACTOR	TOWN OF HEMPSTEAD
NAME: Cubesmart Storage	NAME: Sea-Pro Dock	Amended 1161 2/8/16 APPROVED: 2/8/16 CONSERVATION & WATERWAYS
ADDRESS: 1170 Atlantic Ave	ADDRESS: 2333 Fowler St.	
Baldwin, NY 11510	Bellmore, NY 11710	

TOWN OF HEMPSTEAD

DEPARTMENT OF CONSERVATION & WATERWAYS

To: Permit Administrator
Town of Hempstead, Department of Conservation & Waterways
Lido Boulevard – P.O. Box 180
Point Lookout, NY 11569

*****TO BE RETURNED PRIOR TO COMMENCEMENT*****

RE:

PERMIT NO.: _____

ISSUED TO: _____

ADDRESS: _____

CONTRACTOR: _____

ADDRESS: _____

To Whom It May Concern:

Pursuant to the General Conditions of the above referenced permit you are hereby notified that the authorized activity will commence on _____.
This notice is to be sent at least two days in advance of project commencement.

The permit sign will be posted at the site and a copy of permit will be available at site for inspection.

Submitted by: _____

Date: _____

**FAILURE TO NOTIFY OR POST SIGN WILL LEAVE OWNER AND/OR
CONTRACTOR SUBJECT TO APPLICABLE PENALTIES FOR
NON-COMPLIANCE WITH PERMIT CONDITION.**

Ref. Chapter 168

pls 06/01/11

TOWN OF HEMPSTEAD

DEPARTMENT OF CONSERVATION & WATERWAYS

To: Permit Administrator
Town of Hempstead, Department of Conservation & Waterways
Lido Boulevard – P.O. Box 180
Point Lookout, NY 11569

*****TO BE RETURNED UPON COMPLETION*****

RE: SECTION _____ BLOCK _____ LOT(S) _____

PERMIT NO.: _____

ISSUED TO: _____

ADDRESS: _____

CONTRACTOR: _____

ADDRESS: _____

To Whom It May Concern:

Pursuant to the General Conditions of the above referenced permit you are hereby notified that the authorized activity was completed on _____.

Submitted by: _____

Date: _____

**THIS NOTICE WITH PHOTOS OF COMPLETED WORK AND/OR
COMPLETED SURVEY, IS TO BE SENT TO THE ABOVE ADDRESS
PROMPTLY UPON COMPLETION OF PROJECT. FAILURE TO NOTIFY
WILL LEAVE OWNER FOR NON-COMPLIANCE WITH PERMIT
CONDITIONS.**

Ref. Chapter 168

pls 06/01/11

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Friday, March 18, 2016
TIME: 1200-1515

1 of 3

PRESENT: Amanda J. Racaniello (PWGC);
Charlie Hodge, Nino Coppolino, Julio Cesarcruz (SeaPro);

WEATHER: Partly Sunny, Temperature of 57°F, Wind West at 23-33 mph

EQUIPMENT: (1) Excavator
(1) Forklift
(1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11eV lamp,
(1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.0 ppm was established as background.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.000 mg/m³ was established as background. The wind direction was primarily out of the west throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed continuous in the breathing zone and downwind work area perimeter during intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust) during work activities. No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils. Soil was screened in two foot lifts to four feet below grade surface (bgs), the depth necessary to excavate the existing deadmen, at two locations within the proposed work zone. A PID reading of 18.6 ppm and odors were observed from 2' – 4' bgs in one of the two locations and a sample was collected.

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Friday, March 18, 2016
TIME: 1200-1515

2 of 3

PHOTO LOG



Figure 1. View of previously replaced bulkhead along the southwestern side.



Figure 2. View previously disturbed surface soils.



Figure 3. View of bulkhead to be replaced along western side.



Figure 4. View of test pit soils from 0' – 4' below grade.

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Friday, March 18, 2016
TIME: 1200-1515

3 of 3

ATTACHMENT 1

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	3/18/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	AJR		

Weather Conditions:	Partly Sunny	57F	Wind:	W @ 23- 33 mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	14:00	0.0
	Dust	14:00	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
14:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	Test Pit
15:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"

Dust Suppressant Necessary:	No
Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm)
	Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York

1 of 3

DATE: Friday, March 25, 2016
TIME: 0900 – 0940

PRESENT: Amanda J. Racaniello (PWGC);

WEATHER: Cloudy, Temperature of 52°F, Wind South at 17 mph

EQUIPMENT: (1) Excavator
(1) Forklift
(1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11eV lamp,
(1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.0 ppm was established as background.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.016 mg/m³ was established as background. The wind direction was primarily out of the south throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed within the work zone and around the perimeter during non-intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust). No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils.

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Friday, March 25, 2016
TIME: 0900 – 0940

2 of 3

PHOTO LOG



Figure 1. View of bulkhead work area along the western side. No activities were performed today.

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Friday, March 25, 2016
TIME: 0900 – 0940

3 of 3

ATTACHMENT 1

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	3/25/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	AJR		

Weather Conditions:	Cloudy	52F	Wind:	S @ 17 mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	9:00	0.0
	Dust	9:00	0.016

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
9:15	0.0	0.016	0.0	0.014	0.0	0.012	0.0	0.018	No Site Activities, Background readings recorded
9:30	0.0	0.021	0.0	0.016	0.0	0.016	0.0	0.021	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Wednesday, March 30, 2016
TIME: 1000 - 1430

1 of 3

PRESENT: Amanda J. Racaniello (PWGC);
Charlie Hodge, Nino Coppolino, Julio Cesar Cruz (SeaPro);

WEATHER: Sunny, Temperature of 45-50°F, Wind Southeast at 4 mph

EQUIPMENT: (1) Excavator
(1) Forklift
(1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11eV lamp,
(1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.3 ppm was established as background. The background was reestablished throughout the day as humidity decreased and reached a background of 0.0 ppm.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.000 mg/m³ was established as background. The wind direction was primarily out of the southeast throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed continuous in the breathing zone and downwind work area perimeter during intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust) during work activities. No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils. Soil was screened in two foot lifts to four feet below grade surface (bgs), the depth necessary to excavate the existing deadmen, within the proposed work zone. No odors and a PID reading of 0.0 ppm were observed in all disturbed subsurface soils

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Wednesday, March 30, 2016
TIME: 1000 - 1430

2 of 3

PHOTO LOG



Figure 1. View of disturbed soils, looking south.



Figure 2. View new bulkhead section with soils back in place.



Figure 3. View of former pilings removed during work activities.

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Amanda J. Racaniello, FTL
REVIEWED BY: John Eichler, PM

PWGC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Wednesday, March 30, 2016
TIME: 1000 - 1430

3 of 3

ATTACHMENT 1

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	3/30/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	AJR		

Weather Conditions:	Sunny	45-50F	Wind:	SE @ 4mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	10:10	0.3
	Dust	10:10	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
10:15	0.3	0.000	0.3	0.001	0.3	0.000	0.3	0.020	Bulkhead Restoration Activities
10:45	0.3	0.000	0.3	0.000	0.3	0.000	0.3	0.011	"
11:15	0.2	0.016	0.2	0.000	0.2	0.000	0.2	0.032	"
11:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.014	"
12:15	0.0	0.014	0.0	0.000	0.0	0.000	0.0	0.018	"
13:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:45	0.0	0.010	0.0	0.000	0.0	0.000	0.0	0.012	"
14:15	0.0	0.016	0.0	0.000	0.0	0.000	0.0	0.010	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm)
	Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Nicholas Russell
REVIEWED BY: John Eichler, PM

PW

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York

1 of 3

DATE: Monday, April 11, 2016

TIME: 1000 - 1500

PRESENT: Nicholas Russell (PWGC);
Charlie Hodge, Nino Coppolino, Julio Cesarcruz (SeaPro);

WEATHER: Partly Sunny, Temperature of 50°F, Wind South at 20 mph

EQUIPMENT: (1) Excavator
(1) Forklift
(1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11.6eV lamp,
(1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.0 ppm was established as background. The background was reestablished throughout the day as humidity decreased and reached a background of 0.0 ppm.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.000 mg/m³ was established as background. The wind direction was primarily out of the southeast throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed continuous in the breathing zone and downwind work area perimeter during intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust) during work activities. No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils. Soil was screened in two foot lifts to four feet below grade surface (bgs), the depth necessary to excavate the existing deadmen, within the proposed work zone. No odors and a PID reading of 0.0 ppm were observed in all disturbed subsurface soils

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Nicholas Russell
REVIEWED BY: John Eichler, PM

PW

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Monday, April 11, 2016
TIME: 1000 - 1500

2 of 3

PHOTO LOG



Photo 1: Old piles



Photo 2: Work Area

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Nicholas Russell
REVIEWED BY: John Eichler, PM

PW

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Monday, April 11, 2016
TIME: 1000 - 1500

3 of 3

ATTACHMENT 1

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	4/11/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	NR		

Weather Conditions:	Partly Sunny	50F	Wind:	S @ 20mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	9:30	0.0
	Dust	9:30	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
10:15	0.3	0.000	0.3	0.001	0.3	0.000	0.3	0.020	Bulkhead Restoration Activities
10:45	0.3	0.000	0.3	0.000	0.3	0.000	0.3	0.011	"
11:15	0.2	0.016	0.2	0.000	0.2	0.000	0.2	0.032	"
11:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.014	"
12:15	0.0	0.014	0.0	0.000	0.0	0.000	0.0	0.018	"
13:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:45	0.0	0.010	0.0	0.000	0.0	0.000	0.0	0.012	"
14:15	0.0	0.016	0.0	0.000	0.0	0.000	0.0	0.010	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Nicholas Russell
REVIEWED BY: John Eichler, PM

PW

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York

1 of 3

DATE: Monday, April 18, 2016

TIME: 1000 - 1200

PRESENT: Nicholas Russell (PWGC);
Charlie Hodge, Nino Coppolino, Julio Cesarcruz (SeaPro);

WEATHER: Partly Sunny, Temperature of 60°F, Wind Southwest at 10 mph

EQUIPMENT: (1) Excavator
(1) Forklift
(1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11.6eV lamp,
(1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.0 ppm was established as background. The background was reestablished throughout the day as humidity decreased and reached a background of 0.0 ppm.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.000 mg/m³ was established as background. The wind direction was primarily out of the southeast throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed continuous in the breathing zone and downwind work area perimeter during intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust) during work activities. No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils. Soil was screened in two foot lifts to four feet below grade surface (bgs), the depth necessary to excavate the existing deadmen, within the proposed work zone. No odors and a PID reading of 0.0 ppm were observed in all disturbed subsurface soils

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: Nicholas Russell
REVIEWED BY: John Eichler, PM

PW

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Monday, April 18, 2016
TIME: 1000 - 1200

2 of 3

PHOTO LOG



Figure 1. View of disturbed soils, looking south.



Figure 2. View new bulkhead section with soils back in place.



Figure 3. View of former pilings removed during work activities.

Daily Air Monitoring Record Form
 CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	4/18/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	NR		

Weather Conditions:	Partly Sunny	60F	Wind:	SW @ 8mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	9:30	0.0
	Dust	9:30	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
9:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	Bulkhead Restoration Activities
10:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
 Baldwin, New York

1 of 3

DATE: Tuesday, May 10, 2016

TIME: 1330 - 1630

PRESENT: John Eichler (PWGC);
 Charlie Hodge, Nino Coppolino, Julio Cesarcruz (SeaPro);

WEATHER: Partly Sunny, Temperature of 60°F, Wind West at 10 mph

EQUIPMENT: (1) Excavator
 (1) Forklift
 (1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11.6eV lamp,
 (1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.0 ppm was established as background. The background was reestablished throughout the day as humidity decreased and reached a background of 0.0 ppm.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.000 mg/m³ was established as background. The wind direction was primarily out of the southeast throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed continuous in the breathing zone and downwind work area perimeter during intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust) during work activities. No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils. Soil was screened in two foot lifts to four feet below grade surface (bgs), the depth necessary to excavate the existing deadmen, within the proposed work zone. No odors and a PID reading of 0.0 ppm were observed in all disturbed subsurface soils

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Tuesday, May 10, 2016
TIME: 1330 - 1630

2 of 3

PHOTO LOG



Figure 1. View looking south



Figure 2. View looking north.



Figure 3. View looking south.

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Tuesday, May 10, 2016
TIME: 1330 - 1630

3 of 3

ATTACHMENT 1

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	5/10/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	JE		

Weather Conditions:	Partly Sunny	60F	Wind:	W @ 10mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	13:30	0.0
	Dust	13:30	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
13:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	Bulkhead Restoration Activities
13:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
14:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
14:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
14:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
14:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
15:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
15:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
15:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
15:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
16:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
16:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
16:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW GC JOB# CUE1601
 REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

1 of 3

TIME: 0905 - 1330

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Wednesday, June 1, 2016
TIME: 0905 - 1330

2 of 3



Figure 1. View looking north



Figure 2. View looking south.



Figure 3. View looking north.

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	6/1/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	JE		

Weather Conditions:	Partly Sunny	65F	Wind:	S @ 10mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	9:15	0.0
	Dust	9:15	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
9:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	Bulkhead Restoration Activities
9:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
9:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.

Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC FIELD REPORT	
REPORT BY: John Eichler PW REVIEWED BY: John Eichler, PM	GC JOB# CUE1601

GC JOB# CUE1601

1 of 3

TIME: 0930 - 1330

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Thursday, June 16, 2016
TIME: 0930 - 1330

2 of 3

Figure 1. Northwest corner of bulkhead



Figure 2. staged materials



Figure 3. view from east



Figure 4. view from north

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	6/16/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	JE		

Weather Conditions:	Partly Sunny	70F	Wind:	S @ 5mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	9:45	0.0
	Dust	9:45	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
9:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	Bulkhead Restoration Activities
10:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
13:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
 Baldwin, New York

1 of 3

DATE: Friday, June 24, 2016

TIME: 0945 - 1300

PRESENT: John Eichler (PWGC);
 Charlie Hodge, Nino Coppolino, Julio Cesarcruz (SeaPro);

WEATHER: Mostly Cloudy, Temperature of 80°F, Wind Northeast at 10 mph

EQUIPMENT: (1) Excavator
 (1) Forklift
 (1) Photo-Ionization Detector (MiniRAE²⁰⁰⁰) with 11.6eV lamp,
 (1) Dust Meter (Thermo Electron Corporation - PDR),

MATERIALS: poly sheeting, safety fencing, steel sheeting, wood pilings

DAILY SCOPE OF WORK: Demolish existing bulkhead, excavate soils within proposed work zone to field screen and backfill with original excavated soils. Refer to photo log below.

EQUIPMENT CALIBRATION AND BACKGROUND ESTABLISHMENT:

Photo-Ionization Detector – The meter was calibrated by Eco-Rental Solutions prior to use at the site. Readings were taken onsite prior to start of excavation and a reading of 0.0 ppm was established as background. The background was reestablished throughout the day as humidity decreased and reached a background of 0.0 ppm.

Dust Meter – The meter was calibrated upon arrival at the site. A fresh air calibration was performed in the parking lot of the site. Readings were taken prior to start of excavation and a reading of 0.000 mg/m³ was established as background. The wind direction was primarily out of the southeast throughout the day.

COMMUNITY AIR MONITORING:

Community air monitoring was performed in accordance with the protocol established in the Safeguard Storage Baldwin Site Management Plan (SMP). Air monitoring was performed utilizing a photo-ionization detector (PID) and dust meter. Monitoring was performed continuous in the breathing zone and downwind work area perimeter during intrusive activities. Levels did not reach above action levels (>5 ppm for volatile organic vapors and/or >0.1 mg/m³ for particulate dust) during work activities. No dust suppression was necessary during work activities. CAMP Logs are included as **Attachment 1**.

FIELD SCREENS:

Surface soils (0" – 6" below grade surface (bgs)) was screened with a PID for volatile organic compounds. No PID readings above background (0.0 ppm) were observed in surface soils. Soil was screened in two foot lifts to four feet below grade surface (bgs), the depth necessary to excavate the existing deadmen, within the proposed work zone. No odors and a PID reading of 0.0 ppm were observed in all disturbed subsurface soils

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York
DATE: Friday, June 24, 2016
TIME: 0945 - 1300

2 of 3



Figure 1. Northwest corner viewed from east



Figure 2. view from south



Figure 3. northwest area of bulkhead



Figure 4. staged materials

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, PC
FIELD REPORT

REPORT BY: John Eichler PW
REVIEWED BY: John Eichler, PM

GC JOB# CUE1601

SITE: CubeSmart – 1170 Atlantic Avenue
Baldwin, New York

3 of 3

DATE: Friday, June 24, 2016

TIME: 0945 - 1300

ATTACHMENT 1

Daily Air Monitoring Record Form
CubeSmart - 1170 Atlantic Avenue, Baldwin, New York



Date:	6/24/2016	Project Number:	CUE1601
		Location:	1170 Atlantic Avenue, Baldwin, New York
Site Safety Officer:	JE		

Weather Conditions:	Clear	80F	Wind:	NE @ 10mph

Instrument Make & Model:	MiniRae2000	Calibration:	Pre-calibrated by Eco-Rental Solutions	Instrument Make & Model:	Thermo PDR	Calibration:	Ok

Pre-Start Readings:		Time	Background Reading
	PID	9:45	0.0
	Dust	9:45	0.000

Air Monitoring Locations									
Time	North		South		East		West		Tasks
	PID	Dust	PID	Dust	PID	Dust	PID	Dust	
									Bulkhead Restoration Activities
10:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
10:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
11:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:00	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:30	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"
12:45	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	"

Dust Suppressant Necessary:	No

Dust Suppressant Used:	No dust suppressant necessary.
Notes/Comments:	No exceedances reported.

Note:	PID concentrations recorded in parts per million (ppm) Particulate concentrations recorded in mg/m ³

TABLE 1
Volatile Organic Compounds - Soil
Import to 1170 Atlantic Avenue, Baldwin, New York

Parameter	Units	NYSDEC Restricted Use Commercial SCOs	NYSDEC Protection of Groundwater SCOs	GRAB 001 17-JUN-16 L1618706-01		GRAB 002 17-JUN-16 L1618706-02		GRAB 003 17-JUN-16 L1618706-03		GRAB 004 17-JUN-16 L1618706-04	
VOC											
1,1,1,2-Tetrachloroethane	PPB			0.62	U	0.55	U	0.42	U	0.58	U
1,1,1-Trichloroethane	PPB	500000	680	0.22	U	0.19	U	0.14	U	0.2	U
1,1,2,2-Tetrachloroethane	PPB		600	0.2	U	0.17	U	0.13	U	0.18	U
1,1,2-Trichloroethane	PPB			0.6	U	0.53	U	0.4	U	0.56	U
1,1-Dichloroethane	PPB	240000	270	0.17	U	0.15	U	0.11	U	0.16	U
1,1-Dichloroethene	PPB	500000	330	0.51	U	0.45	U	0.34	U	0.48	U
1,1-Dichloropropene	PPB			0.28	U	0.24	U	0.18	U	0.26	U
1,2,3-Trichlorobenzene	PPB			0.29	U	0.26	U	0.19	U	0.27	U
1,2,3-Trichloropropane	PPB		340	0.32	U	0.28	U	0.21	U	0.3	U
1,2,4,5-Tetramethylbenzene	PPB			0.26	U	0.22	U	0.17	U	0.24	U
1,2,4-Trichlorobenzene	PPB		3400	0.36	U	0.31	U	0.24	U	0.33	U
1,2,4-Trimethylbenzene	PPB	190000	3600	0.28	U	0.24	U	0.18	U	0.26	U
1,2-Dibromo-3-chloropropane	PPB			0.78	U	0.68	U	0.52	U	0.72	U
1,2-Dibromoethane	PPB			0.34	U	0.3	U	0.23	U	0.32	U
1,2-Dichlorobenzene	PPB	500000	1100	0.3	U	0.26	U	0.2	U	0.28	U
1,2-Dichloroethane	PPB	30000	20	0.22	U	0.2	U	0.15	U	0.21	U
1,2-Dichloroethene, Total	PPB			0.28	U	0.25	U	0.19	U	0.26	U
1,2-Dichloropropane	PPB			0.45	U	0.39	U	0.3	U	0.42	U
1,3,5-Trimethylbenzene	PPB	190000	8400	0.28	U	0.25	U	0.19	U	0.26	U
1,3-Dichlorobenzene	PPB	280000	2400	0.26	U	0.23	U	0.18	U	0.25	U
1,3-Dichloropropane	PPB		300	0.28	U	0.25	U	0.19	U	0.26	U
1,3-Dichloropropene, Total	PPB			0.23	U	0.2	U	0.15	U	0.22	U
1,4-Dichlorobenzene	PPB	130000	1800	0.27	U	0.24	U	0.18	U	0.25	U
1,4-Dioxane	PPB	130000	100	28	U	25	U	19	U	26	U
2,2-Dichloropropane	PPB			0.44	U	0.39	U	0.3	U	0.41	U
2-Butanone	PPB	500000	300	0.53	U	3.5	J	0.36	U	0.5	U
2-Hexanone	PPB			1.3	U	1.2	U	0.87	U	1.2	U
4-Methyl-2-pentanone	PPB		1000	0.48	U	0.42	U	0.32	U	0.45	U
Acetone	PPB	500000	50	90		27		19		37	
Acrylonitrile	PPB			1	U	0.89	U	0.67	U	0.94	U
Benzene	PPB	44000	60	0.23	U	0.2	U	0.15	U	0.22	U
Bromobenzene	PPB			0.41	U	0.36	U	0.27	U	0.38	U
Bromochloromethane	PPB			0.54	U	0.48	U	0.36	U	0.5	U
Bromodichloromethane	PPB			0.34	U	0.3	U	0.23	U	0.32	U
Bromoform	PPB			0.46	U	0.41	U	0.31	U	0.43	U
Bromomethane	PPB			0.66	U	0.58	U	0.44	U	0.62	U
Carbon disulfide	PPB		2700	2.2	U	1.9	U	1.4	U	2	U
Carbon tetrachloride	PPB	22000	760	0.41	U	0.36	U	0.27	U	0.38	U
Chlorobenzene	PPB	500000	1100	0.68	U	0.6	U	0.45	U	0.64	U
Chloroethane	PPB			0.62	U	0.55	U	0.41	U	0.58	U
Chloroform	PPB	350000	370	0.72	U	0.64	U	0.48	U	0.68	U
Chloromethane	PPB			0.58	U	0.51	U	0.38	U	0.54	U
cis-1,2-Dichloroethene	PPB	500000	250	0.28	U	0.25	U	0.19	U	0.26	U
cis-1,3-Dichloropropene	PPB			0.23	U	0.2	U	0.15	U	0.22	U
Dibromochloromethane	PPB			0.3	U	0.26	U	0.2	U	0.28	U
Dibromomethane	PPB			0.32	U	0.28	U	0.21	U	0.3	U
Dichlorodifluoromethane	PPB			0.37	U	0.33	U	0.25	U	0.35	U
Ethyl ether	PPB	390000	1000	0.51	U	0.45	U	0.34	U	0.48	U
Ethylbenzene	PPB			0.25	U	0.22	U	0.17	U	0.23	U
Hexachlorobutadiene	PPB			0.45	U	0.39	U	0.3	U	0.42	U
Isopropylbenzene	PPB		2300	0.2	U	0.18	U	0.14	U	0.19	U
Methyl tert butyl ether	PPB	500000	930	0.16	U	0.15	U	0.11	U	0.15	U
Methylene chloride	PPB	500000	50	2.2	U	1.9	U	1.4	U	2	U
n-Butylbenzene	PPB	500000	12000	0.22	U	0.2	U	0.15	U	0.21	U
n-Propylbenzene	PPB	500000	3900	0.21	U	0.19	U	0.14	U	0.2	U
Naphthalene	PPB			0.27	U	0.3	J	0.18	U	0.25	U
o-Chlorotoluene	PPB			0.31	U	0.28	U	0.21	U	0.29	U
o-Xylene	PPB	500000	1600	0.34	U	0.3	U	0.22	U	0.31	U
p-Chlorotoluene	PPB			0.26	U	0.23	U	0.17	U	0.24	U
p-Diethylbenzene	PPB			0.31	U	0.28	U	0.21	U	0.29	U
p-Ethyltoluene	PPB			0.24	U	0.21	U	0.16	U	0.23	U
p-Isopropyltoluene	PPB		10000	0.24	U	0.22	U	0.16	U	0.23	U
p/m-Xylene	PPB	500000	1600	0.39	U	0.34	U	0.26	U	0.36	U
sec-Butylbenzene	PPB	500000	11000	0.24	U	0.21	U	0.16	U	0.22	U
Styrene	PPB			0.79	U	0.7	U	0.52	U	0.74	U
tert-Butylbenzene	PPB	500000	5900	0.26	U	0.23	U	0.18	U	0.25	U
Tetrachloroethene	PPB	150000	1300	0.27	U	0.24	U	0.18	U	0.26	U
Toluene	PPB	500000	700	3.9		2.1	J	2.1		2.3	J
trans-1,2-Dichloroethene	PPB	500000	190	0.42	U	0.37	U	0.28	U	0.39	U
trans-1,3-Dichloropropene	PPB			0.24	U	0.21	U	0.16	U	0.22	U
trans-1,4-Dichloro-2-butene	PPB			0.77	U	0.68	U	0.51	U	0.72	U
Trichloroethene	PPB	200000	470	0.24	U	0.22	U	0.16	U	0.23	U
Trichlorofluoromethane	PPB			0.76	U	0.67	U	0.51	U	0.71	U
Vinyl acetate	PPB			0.26	U	0.23	U	0.17	U	0.24	U
Vinyl chloride	PPB	13000	20	0.23	U	0.2	U	0.15	U	0.21	U
Xylenes, Total	PPB			0.34	U	0.3	U	0.22	U	0.31	U

Notes
U - Not Detected
J - Estimated
SCO - Soil Cleanup Objective

TABLE 2
Semi-Volatile Organic Compounds
Import to 1170 Atlantic Avenue, Baldwin, New York

Parameter	Units	NYSDEC Restricted Use Commercial SCOs	NYSDEC Protection of Groundwater SCOs	COMP 001 17-JUN-16 L1618706-06		COMP 002 17-JUN-16 L1618706-07	
SVOC							
1,2,4,5-Tetrachlorobenzene	PPB			19	U	18	U
1,2,4-Trichlorobenzene	PPB			20	U	20	U
1,2-Dichlorobenzene	PPB			32	U	31	U
1,3-Dichlorobenzene	PPB			31	U	30	U
1,4-Dichlorobenzene	PPB			31	U	30	U
2,4,5-Trichlorophenol	PPB		100	34	U	33	U
2,4,6-Trichlorophenol	PPB			34	U	32	U
2,4-Dichlorophenol	PPB		400	29	U	28	U
2,4-Dimethylphenol	PPB			59	U	57	U
2,4-Dinitrophenol	PPB		200	84	U	80	U
2,4-Dinitrotoluene	PPB			36	U	34	U
2,6-Dinitrotoluene	PPB		1000	31	U	29	U
2-Chloronaphthalene	PPB			18	U	17	U
2-Chlorophenol	PPB			21	U	20	U
2-Methylnaphthalene	PPB		36400	22	U	21	U
2-Methylphenol	PPB	500000		28	U	27	U
2-Nitroaniline	PPB		400	34	U	33	U
2-Nitrophenol	PPB		300	67	U	65	U
3,3'-Dichlorobenzidine	PPB			48	U	46	U
3-Methylphenol/4-Methylphenol	PPB	500000		31	J	27	U
3-Nitroaniline	PPB		500	34	U	32	U
4,6-Dinitro-o-cresol	PPB			86	U	82	U
4-Bromophenyl phenyl ether	PPB			27	U	26	U
4-Chloroaniline	PPB		220	33	U	31	U
4-Chlorophenyl phenyl ether	PPB			19	U	18	U
4-Nitroaniline	PPB			74	U	71	U
4-Nitrophenol	PPB		100	73	U	70	U
Acenaphthene	PPB	500000	98000	18	U	18	U
Acenaphthylene	PPB	500000	107000	28	U	26	U
Acetophenone	PPB			22	U	21	U
Anthracene	PPB	500000	1000000	35	U	34	U
Benzo(a)anthracene	PPB	5600	1000	20	U	19	U
Benzo(a)pyrene	PPB	1000	22000	44	U	42	U
Benzo(b)fluoranthene	PPB	5600	1700	30	U	29	U
Benzo(ghi)perylene	PPB	500000	1000000	21	U	20	U
Benzo(k)fluoranthene	PPB	56000	1700	29	U	27	U
Benzoic Acid	PPB		2700	180	U	170	U
Benzyl Alcohol	PPB			55	U	52	U
Biphenyl	PPB			42	U	40	U
Bis(2-chloroethoxy)methane	PPB			18	U	17	U
Bis(2-chloroethyl)ether	PPB			24	U	23	U
Bis(2-chloroisopropyl)ether	PPB			31	U	29	U
Bis(2-ethylhexyl)phthalate	PPB		435000	62	U	59	U
Butyl benzyl phthalate	PPB		122000	45	U	43	U
Carbazole	PPB			17	U	17	U
Chrysene	PPB	56000	1000	19	U	18	U
Di-n-butylphthalate	PPB		8100	34	U	32	U
Di-n-octylphthalate	PPB		120000	61	U	58	U
Dibenzo(a,h)anthracene	PPB	560	1000000	21	U	20	U
Dibenzofuran	PPB	350000		17	U	16	U
Diethyl phthalate	PPB		7100	16	U	16	U
Dimethyl phthalate	PPB		27000	38	U	36	U
Fluoranthene	PPB	500000	1000000	20	U	21	J
Fluorene	PPB	500000	386000	17	U	17	U
Hexachlorobenzene	PPB	6000	1400	20	U	19	U
Hexachlorobutadiene	PPB			26	U	25	U
Hexachlorocyclopentadiene	PPB			160	U	160	U
Hexachloroethane	PPB			29	U	28	U
Indeno(1,2,3-cd)pyrene	PPB	5600	8200	25	U	24	U
Isophorone	PPB		4400	23	U	22	U
n-Nitrosodi-n-propylamine	PPB			28	U	26	U
Naphthalene	PPB	500000	12000	22	U	21	U
NDPA/DPA	PPB			20	U	20	U
Nitrobenzene	PPB	69000	170	26	U	25	U
p-Chloro-m-cresol	PPB			27	U	26	U
Pentachlorophenol	PPB	6700	800	39	U	38	U
Phenanthrene	PPB	500000	1000000	22	U	21	U
Phenol	PPB	500000	330	27	U	26	U
Pyrene	PPB	500000	1000000	18	U	19	J

Notes
U - Not Detected
J - Estimated
SCO - Soil Cleanup Objective

TABLE 3							
Metals, Herbicides, PCBs, and Pesticides - Soil							
Import to 1170 Atlantic Avenue, Baldwin, New York							
Parameters	Units	NYSDEC Restricted Use Commercial SCOs	NYSDEC Protection of Groundwater SCOs	COMP 001 17-JUN-16 L1618706-06		COMP 002 17-JUN-16 L1618706-07	
Total Metals							
Arsenic, Total	PPB	16	16	4.8		4.4	
Barium, Total	PPB	400	820	8.2		8.2	
Beryllium, Total	PPB	590	47	0.15	J	0.16	J
Cadmium, Total	PPB	9.3	7.5	0.03	U	0.03	U
Chromium, Total	PPB	NA	19	4.3		4	
Copper, Total	PPB	270	1720	6.7		6.4	
Lead, Total	PPB	1000	450	7.7		7.5	
Manganese, Total	PPB	10000	2000	56		58	
Mercury, Total	PPB	2.8	0.73	0.26		0.24	
Nickel, Total	PPB	310	130	1.9		1.8	
Selenium, Total	PPB	1500	4	0.26	J	0.21	J
Silver, Total	PPB	1500	8.3	0.09	U	0.08	U
Zinc, Total	PPB	10000	2480	5.9		6	
Herbicides							
2,4,5-T	PPB		1900	5.46	U	5.22	U
2,4,5-TP (Silvex)	PPB	500000	3800	4.69	U	4.48	U
2,4-D	PPB		500	11.1	U	10.6	U
PCBs							
Aroclor 1016	PPB	1000	3200	2.72	U	2.62	U
Aroclor 1221	PPB	1000	3200	3.17	U	3.06	U
Aroclor 1232	PPB	1000	3200	4.04	U	3.89	U
Aroclor 1242	PPB	1000	3200	4.21	U	4.06	U
Aroclor 1248	PPB	1000	3200	2.91	U	2.8	U
Aroclor 1254	PPB	1000	3200	2.83	U	2.73	U
Aroclor 1260	PPB	1000	3200	2.62	U	2.53	U
Aroclor 1262	PPB	1000	3200	1.71	U	1.65	U
Aroclor 1268	PPB	1000	3200	4.99	U	4.81	U
PCBs, Total	PPB	NA	NA	1.71	U	1.65	U
Pesticides							
4,4'-DDD	PPB	92000	14000	78.3		77.6	
4,4'-DDE	PPB	62000	17000	260		262	
4,4'-DDT	PPB	47000	136000	164		162	
Aldrin	PPB	680	190	0.583	U	0.56	U
Alpha-BHC	PPB	3400	20	0.196	U	0.188	U
Beta-BHC	PPB	3000	90	0.628	U	0.603	U
Chlordane	PPB	24000	2900	170		212	
cis-Chlordane	PPB			29.7		32.5	
Delta-BHC	PPB	500000	250	0.324	U	0.312	U
Dieldrin	PPB	1400	100	39.2		36.8	
Endosulfan I	PPB	200000	102000	0.391	U	0.376	U
Endosulfan II	PPB	200000	102000	0.554	U	0.532	U
Endosulfan sulfate	PPB	200000	1000000	0.329	U	0.316	U
Endrin	PPB	89000	60	0.283	U	0.272	U
Endrin aldehyde	PPB			0.725	U	0.696	U
Endrin ketone	PPB			0.427	U	0.41	U
Heptachlor	PPB	15000	380	0.371	U	0.357	U
Heptachlor epoxide	PPB		20	7.46		4.61	
Lindane	PPB	9200	100	0.309	U	0.296	U
Methoxychlor	PPB		900000	0.967	U	0.928	U
Toxaphene	PPB			8.7	U	8.35	U
trans-Chlordane	PPB		14000	22.4		23	

Notes

U - Not Detected

J - Estimated

SCO - Soil Cleanup Objective



ANALYTICAL REPORT

Lab Number:	L1618706
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	OAK HILL ESTATES
Project Number:	CUE1601
Report Date:	07/05/16

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1618706-01	GRAB 001	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 10:35	06/17/16
L1618706-02	GRAB 002	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16
L1618706-03	GRAB 003	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16
L1618706-04	GRAB 004	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16
L1618706-05	GRAB DUP	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16
L1618706-06	COMP 001	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16
L1618706-07	COMP 002	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16
L1618706-08	COMP DUP	SOIL	HALF HOLLOW RD., DIX HILLS	06/17/16 00:00	06/17/16

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

Case Narrative

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

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

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

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

HOLD POLICY

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

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

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

Case Narrative (continued)

Report Submission

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

Volatile Organics

The WG907992-6 MS recovery, performed on L1618706-01, is outside the acceptance criteria for acetone (0%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

An MSD could not be performed due to insufficient sample.

PCBs

L1618706-08: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (28%26%); however, re-extraction achieved similar results: 2,4,5,6-tetrachloro-m-xylene (9%9%) and decachlorobiphenyl (9%,10%). The results of both extractions are reported.

Pesticides

The WG909285-5 MSD recovery, performed on L1618706-06, is outside the acceptance criteria for 4,4'-DDE (9%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

Cyanide, Total

The WG905391-2/-3 LCS/LCSD recoveries (15%/132%), associated with L1618706-06 through -08, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. In addition, the LCS/LCSD RPD is above the acceptance criteria (158%).

Chromium, Hexavalent

The WG905774-5 MSD recovery, performed on L1618706-06, is outside the acceptance criteria (74%); however, the associated LCS, MS and MS soluble recoveries are within overall method allowances. No further

Project Name: OAK HILL ESTATES
Project Number: CUE1601

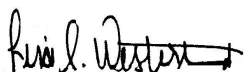
Lab Number: L1618706
Report Date: 07/05/16

Case Narrative (continued)

action was required.

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

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 07/05/16

ORGANICS

VOLATILES

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-01
Client ID: GRAB 001
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/26/16 15:38
Analyst: BN
Percent Solids: 95%

Date Collected: 06/17/16 10:35
Date Received: 06/17/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	20	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.9	0.17	1
Chloroform	ND		ug/kg	2.9	0.72	1
Carbon tetrachloride	ND		ug/kg	2.0	0.41	1
1,2-Dichloropropane	ND		ug/kg	6.8	0.45	1
Dibromochloromethane	ND		ug/kg	2.0	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.9	0.60	1
Tetrachloroethene	ND		ug/kg	2.0	0.27	1
Chlorobenzene	ND		ug/kg	2.0	0.68	1
Trichlorofluoromethane	ND		ug/kg	9.8	0.76	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	2.0	0.22	1
Bromodichloromethane	ND		ug/kg	2.0	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	2.0	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	2.0	0.23	1
1,1-Dichloropropene	ND		ug/kg	9.8	0.28	1
Bromoform	ND		ug/kg	7.8	0.46	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	0.20	1
Benzene	ND		ug/kg	2.0	0.23	1
Toluene	3.9		ug/kg	2.9	0.38	1
Ethylbenzene	ND		ug/kg	2.0	0.25	1
Chloromethane	ND		ug/kg	9.8	0.58	1
Bromomethane	ND		ug/kg	3.9	0.66	1
Vinyl chloride	ND		ug/kg	3.9	0.23	1
Chloroethane	ND		ug/kg	3.9	0.62	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.42	1
Trichloroethene	ND		ug/kg	2.0	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	9.8	0.30	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-01

Date Collected: 06/17/16 10:35

Client ID: GRAB 001

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	9.8	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	9.8	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.9	0.16	1
p/m-Xylene	ND		ug/kg	3.9	0.39	1
o-Xylene	ND		ug/kg	3.9	0.34	1
Xylenes, Total	ND		ug/kg	3.9	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	0.28	1
Dibromomethane	ND		ug/kg	20	0.32	1
Styrene	ND		ug/kg	3.9	0.79	1
Dichlorodifluoromethane	ND		ug/kg	20	0.37	1
Acetone	90		ug/kg	20	2.0	1
Carbon disulfide	ND		ug/kg	20	2.2	1
2-Butanone	ND		ug/kg	20	0.53	1
Vinyl acetate	ND		ug/kg	20	0.26	1
4-Methyl-2-pentanone	ND		ug/kg	20	0.48	1
1,2,3-Trichloropropane	ND		ug/kg	20	0.32	1
2-Hexanone	ND		ug/kg	20	1.3	1
Bromochloromethane	ND		ug/kg	9.8	0.54	1
2,2-Dichloropropane	ND		ug/kg	9.8	0.44	1
1,2-Dibromoethane	ND		ug/kg	7.8	0.34	1
1,3-Dichloropropane	ND		ug/kg	9.8	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.0	0.62	1
Bromobenzene	ND		ug/kg	9.8	0.41	1
n-Butylbenzene	ND		ug/kg	2.0	0.22	1
sec-Butylbenzene	ND		ug/kg	2.0	0.24	1
tert-Butylbenzene	ND		ug/kg	9.8	0.26	1
o-Chlorotoluene	ND		ug/kg	9.8	0.31	1
p-Chlorotoluene	ND		ug/kg	9.8	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.8	0.78	1
Hexachlorobutadiene	ND		ug/kg	9.8	0.45	1
Isopropylbenzene	ND		ug/kg	2.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	2.0	0.24	1
Naphthalene	ND		ug/kg	9.8	0.27	1
Acrylonitrile	ND		ug/kg	20	1.0	1
n-Propylbenzene	ND		ug/kg	2.0	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.8	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.8	0.28	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-01

Date Collected: 06/17/16 10:35

Client ID: GRAB 001

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	9.8	0.28	1
1,4-Dioxane	ND		ug/kg	200	28.	1
p-Diethylbenzene	ND		ug/kg	7.8	0.31	1
p-Ethyltoluene	ND		ug/kg	7.8	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.8	0.26	1
Ethyl ether	ND		ug/kg	9.8	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.8	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-02
 Client ID: GRAB 002
 Sample Location: HALF HOLLOW RD., DIX HILLS
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/26/16 16:32
 Analyst: BN
 Percent Solids: 96%

Date Collected: 06/17/16 00:00
 Date Received: 06/17/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	17	1.9	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.15	1
Chloroform	ND		ug/kg	2.6	0.64	1
Carbon tetrachloride	ND		ug/kg	1.7	0.36	1
1,2-Dichloropropane	ND		ug/kg	6.0	0.39	1
Dibromochloromethane	ND		ug/kg	1.7	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.53	1
Tetrachloroethene	ND		ug/kg	1.7	0.24	1
Chlorobenzene	ND		ug/kg	1.7	0.60	1
Trichlorofluoromethane	ND		ug/kg	8.6	0.67	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.19	1
Bromodichloromethane	ND		ug/kg	1.7	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	0.20	1
1,1-Dichloropropene	ND		ug/kg	8.6	0.24	1
Bromoform	ND		ug/kg	6.9	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.17	1
Benzene	ND		ug/kg	1.7	0.20	1
Toluene	2.1	J	ug/kg	2.6	0.34	1
Ethylbenzene	ND		ug/kg	1.7	0.22	1
Chloromethane	ND		ug/kg	8.6	0.51	1
Bromomethane	ND		ug/kg	3.5	0.58	1
Vinyl chloride	ND		ug/kg	3.5	0.20	1
Chloroethane	ND		ug/kg	3.5	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.37	1
Trichloroethene	ND		ug/kg	1.7	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	8.6	0.26	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-02

Date Collected: 06/17/16 00:00

Client ID: GRAB 002

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	8.6	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	8.6	0.24	1
Methyl tert butyl ether	ND		ug/kg	3.5	0.15	1
p/m-Xylene	ND		ug/kg	3.5	0.34	1
o-Xylene	ND		ug/kg	3.5	0.30	1
Xylenes, Total	ND		ug/kg	3.5	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.25	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	0.25	1
Dibromomethane	ND		ug/kg	17	0.28	1
Styrene	ND		ug/kg	3.5	0.70	1
Dichlorodifluoromethane	ND		ug/kg	17	0.33	1
Acetone	27		ug/kg	17	1.8	1
Carbon disulfide	ND		ug/kg	17	1.9	1
2-Butanone	3.5	J	ug/kg	17	0.47	1
Vinyl acetate	ND		ug/kg	17	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	17	0.42	1
1,2,3-Trichloropropane	ND		ug/kg	17	0.28	1
2-Hexanone	ND		ug/kg	17	1.2	1
Bromochloromethane	ND		ug/kg	8.6	0.48	1
2,2-Dichloropropane	ND		ug/kg	8.6	0.39	1
1,2-Dibromoethane	ND		ug/kg	6.9	0.30	1
1,3-Dichloropropane	ND		ug/kg	8.6	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.55	1
Bromobenzene	ND		ug/kg	8.6	0.36	1
n-Butylbenzene	ND		ug/kg	1.7	0.20	1
sec-Butylbenzene	ND		ug/kg	1.7	0.21	1
tert-Butylbenzene	ND		ug/kg	8.6	0.23	1
o-Chlorotoluene	ND		ug/kg	8.6	0.28	1
p-Chlorotoluene	ND		ug/kg	8.6	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.6	0.68	1
Hexachlorobutadiene	ND		ug/kg	8.6	0.39	1
Isopropylbenzene	ND		ug/kg	1.7	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.22	1
Naphthalene	0.30	J	ug/kg	8.6	0.24	1
Acrylonitrile	ND		ug/kg	17	0.89	1
n-Propylbenzene	ND		ug/kg	1.7	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.6	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.6	0.25	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-02

Date Collected: 06/17/16 00:00

Client ID: GRAB 002

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	8.6	0.24	1
1,4-Dioxane	ND		ug/kg	170	25.	1
p-Diethylbenzene	ND		ug/kg	6.9	0.28	1
p-Ethyltoluene	ND		ug/kg	6.9	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.9	0.22	1
Ethyl ether	ND		ug/kg	8.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.6	0.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-03
Client ID: GRAB 003
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/26/16 16:58
Analyst: BN
Percent Solids: 96%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	1.4	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.11	1
Chloroform	ND		ug/kg	2.0	0.48	1
Carbon tetrachloride	ND		ug/kg	1.3	0.27	1
1,2-Dichloropropane	ND		ug/kg	4.6	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.18	1
Chlorobenzene	ND		ug/kg	1.3	0.45	1
Trichlorofluoromethane	ND		ug/kg	6.5	0.51	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.14	1
Bromodichloromethane	ND		ug/kg	1.3	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.5	0.18	1
Bromoform	ND		ug/kg	5.2	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.13	1
Benzene	ND		ug/kg	1.3	0.15	1
Toluene	2.1		ug/kg	2.0	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.17	1
Chloromethane	ND		ug/kg	6.5	0.38	1
Bromomethane	ND		ug/kg	2.6	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.15	1
Chloroethane	ND		ug/kg	2.6	0.41	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.28	1
Trichloroethene	ND		ug/kg	1.3	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.5	0.20	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-03

Date Collected: 06/17/16 00:00

Client ID: GRAB 003

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.5	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.11	1
p/m-Xylene	ND		ug/kg	2.6	0.26	1
o-Xylene	ND		ug/kg	2.6	0.22	1
Xylenes, Total	ND		ug/kg	2.6	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.19	1
Dibromomethane	ND		ug/kg	13	0.21	1
Styrene	ND		ug/kg	2.6	0.52	1
Dichlorodifluoromethane	ND		ug/kg	13	0.25	1
Acetone	19		ug/kg	13	1.4	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.36	1
Vinyl acetate	ND		ug/kg	13	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.21	1
2-Hexanone	ND		ug/kg	13	0.87	1
Bromochloromethane	ND		ug/kg	6.5	0.36	1
2,2-Dichloropropane	ND		ug/kg	6.5	0.30	1
1,2-Dibromoethane	ND		ug/kg	5.2	0.23	1
1,3-Dichloropropane	ND		ug/kg	6.5	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.42	1
Bromobenzene	ND		ug/kg	6.5	0.27	1
n-Butylbenzene	ND		ug/kg	1.3	0.15	1
sec-Butylbenzene	ND		ug/kg	1.3	0.16	1
tert-Butylbenzene	ND		ug/kg	6.5	0.18	1
o-Chlorotoluene	ND		ug/kg	6.5	0.21	1
p-Chlorotoluene	ND		ug/kg	6.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	0.52	1
Hexachlorobutadiene	ND		ug/kg	6.5	0.30	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.16	1
Naphthalene	ND		ug/kg	6.5	0.18	1
Acrylonitrile	ND		ug/kg	13	0.67	1
n-Propylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.5	0.19	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-03

Date Collected: 06/17/16 00:00

Client ID: GRAB 003

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.5	0.18	1
1,4-Dioxane	ND		ug/kg	130	19.	1
p-Diethylbenzene	ND		ug/kg	5.2	0.21	1
p-Ethyltoluene	ND		ug/kg	5.2	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.2	0.17	1
Ethyl ether	ND		ug/kg	6.5	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	0.51	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-04
Client ID: GRAB 004
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/26/16 17:25
Analyst: BN
Percent Solids: 98%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	18	2.0	1
1,1-Dichloroethane	ND		ug/kg	2.7	0.16	1
Chloroform	ND		ug/kg	2.7	0.68	1
Carbon tetrachloride	ND		ug/kg	1.8	0.38	1
1,2-Dichloropropane	ND		ug/kg	6.4	0.42	1
Dibromochloromethane	ND		ug/kg	1.8	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	0.56	1
Tetrachloroethene	ND		ug/kg	1.8	0.26	1
Chlorobenzene	ND		ug/kg	1.8	0.64	1
Trichlorofluoromethane	ND		ug/kg	9.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	1.8	0.20	1
Bromodichloromethane	ND		ug/kg	1.8	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.8	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	1.8	0.22	1
1,1-Dichloropropene	ND		ug/kg	9.1	0.26	1
Bromoform	ND		ug/kg	7.3	0.43	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	0.18	1
Benzene	ND		ug/kg	1.8	0.22	1
Toluene	2.3	J	ug/kg	2.7	0.36	1
Ethylbenzene	ND		ug/kg	1.8	0.23	1
Chloromethane	ND		ug/kg	9.1	0.54	1
Bromomethane	ND		ug/kg	3.6	0.62	1
Vinyl chloride	ND		ug/kg	3.6	0.21	1
Chloroethane	ND		ug/kg	3.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	2.7	0.39	1
Trichloroethene	ND		ug/kg	1.8	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	9.1	0.28	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-04

Date Collected: 06/17/16 00:00

Client ID: GRAB 004

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	9.1	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	9.1	0.25	1
Methyl tert butyl ether	ND		ug/kg	3.6	0.15	1
p/m-Xylene	ND		ug/kg	3.6	0.36	1
o-Xylene	ND		ug/kg	3.6	0.31	1
Xylenes, Total	ND		ug/kg	3.6	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.8	0.26	1
Dibromomethane	ND		ug/kg	18	0.30	1
Styrene	ND		ug/kg	3.6	0.74	1
Dichlorodifluoromethane	ND		ug/kg	18	0.35	1
Acetone	37		ug/kg	18	1.9	1
Carbon disulfide	ND		ug/kg	18	2.0	1
2-Butanone	ND		ug/kg	18	0.50	1
Vinyl acetate	ND		ug/kg	18	0.24	1
4-Methyl-2-pentanone	ND		ug/kg	18	0.45	1
1,2,3-Trichloropropane	ND		ug/kg	18	0.30	1
2-Hexanone	ND		ug/kg	18	1.2	1
Bromochloromethane	ND		ug/kg	9.1	0.50	1
2,2-Dichloropropane	ND		ug/kg	9.1	0.41	1
1,2-Dibromoethane	ND		ug/kg	7.3	0.32	1
1,3-Dichloropropane	ND		ug/kg	9.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.8	0.58	1
Bromobenzene	ND		ug/kg	9.1	0.38	1
n-Butylbenzene	ND		ug/kg	1.8	0.21	1
sec-Butylbenzene	ND		ug/kg	1.8	0.22	1
tert-Butylbenzene	ND		ug/kg	9.1	0.25	1
o-Chlorotoluene	ND		ug/kg	9.1	0.29	1
p-Chlorotoluene	ND		ug/kg	9.1	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.1	0.72	1
Hexachlorobutadiene	ND		ug/kg	9.1	0.42	1
Isopropylbenzene	ND		ug/kg	1.8	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.23	1
Naphthalene	ND		ug/kg	9.1	0.25	1
Acrylonitrile	ND		ug/kg	18	0.94	1
n-Propylbenzene	ND		ug/kg	1.8	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.1	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.1	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.1	0.26	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-04

Date Collected: 06/17/16 00:00

Client ID: GRAB 004

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	9.1	0.26	1
1,4-Dioxane	ND		ug/kg	180	26.	1
p-Diethylbenzene	ND		ug/kg	7.3	0.29	1
p-Ethyltoluene	ND		ug/kg	7.3	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.3	0.24	1
Ethyl ether	ND		ug/kg	9.1	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.1	0.72	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-05
Client ID: GRAB DUP
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/26/16 17:51
Analyst: BN
Percent Solids: 71%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	23	2.5	1
1,1-Dichloroethane	ND		ug/kg	3.4	0.19	1
Chloroform	ND		ug/kg	3.4	0.84	1
Carbon tetrachloride	ND		ug/kg	2.3	0.48	1
1,2-Dichloropropane	ND		ug/kg	8.0	0.52	1
Dibromochloromethane	ND		ug/kg	2.3	0.35	1
1,1,2-Trichloroethane	ND		ug/kg	3.4	0.69	1
Tetrachloroethene	ND		ug/kg	2.3	0.32	1
Chlorobenzene	ND		ug/kg	2.3	0.79	1
Trichlorofluoromethane	ND		ug/kg	11	0.88	1
1,2-Dichloroethane	ND		ug/kg	2.3	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	2.3	0.25	1
Bromodichloromethane	ND		ug/kg	2.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	2.3	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	2.3	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	2.3	0.27	1
1,1-Dichloropropene	ND		ug/kg	11	0.32	1
Bromoform	ND		ug/kg	9.1	0.54	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.3	0.23	1
Benzene	ND		ug/kg	2.3	0.27	1
Toluene	6.4		ug/kg	3.4	0.44	1
Ethylbenzene	ND		ug/kg	2.3	0.29	1
Chloromethane	ND		ug/kg	11	0.67	1
Bromomethane	ND		ug/kg	4.5	0.77	1
Vinyl chloride	ND		ug/kg	4.5	0.27	1
Chloroethane	ND		ug/kg	4.5	0.72	1
1,1-Dichloroethene	ND		ug/kg	2.3	0.60	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	0.48	1
Trichloroethene	ND		ug/kg	2.3	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	11	0.35	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-05

Date Collected: 06/17/16 00:00

Client ID: GRAB DUP

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	11	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	11	0.31	1
Methyl tert butyl ether	ND		ug/kg	4.5	0.19	1
p/m-Xylene	ND		ug/kg	4.5	0.45	1
o-Xylene	ND		ug/kg	4.5	0.39	1
Xylenes, Total	ND		ug/kg	4.5	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	2.3	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	2.3	0.32	1
Dibromomethane	ND		ug/kg	23	0.37	1
Styrene	ND		ug/kg	4.5	0.91	1
Dichlorodifluoromethane	ND		ug/kg	23	0.43	1
Acetone	75		ug/kg	23	2.4	1
Carbon disulfide	ND		ug/kg	23	2.5	1
2-Butanone	ND		ug/kg	23	0.62	1
Vinyl acetate	ND		ug/kg	23	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	23	0.55	1
1,2,3-Trichloropropane	ND		ug/kg	23	0.37	1
2-Hexanone	ND		ug/kg	23	1.5	1
Bromochloromethane	ND		ug/kg	11	0.63	1
2,2-Dichloropropane	ND		ug/kg	11	0.51	1
1,2-Dibromoethane	ND		ug/kg	9.1	0.40	1
1,3-Dichloropropane	ND		ug/kg	11	0.33	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.3	0.72	1
Bromobenzene	ND		ug/kg	11	0.47	1
n-Butylbenzene	ND		ug/kg	2.3	0.26	1
sec-Butylbenzene	ND		ug/kg	2.3	0.28	1
tert-Butylbenzene	ND		ug/kg	11	0.31	1
o-Chlorotoluene	ND		ug/kg	11	0.36	1
p-Chlorotoluene	ND		ug/kg	11	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	0.90	1
Hexachlorobutadiene	ND		ug/kg	11	0.52	1
Isopropylbenzene	ND		ug/kg	2.3	0.24	1
p-Isopropyltoluene	ND		ug/kg	2.3	0.28	1
Naphthalene	ND		ug/kg	11	0.31	1
Acrylonitrile	ND		ug/kg	23	1.2	1
n-Propylbenzene	ND		ug/kg	2.3	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	11	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	11	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	11	0.32	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-05

Date Collected: 06/17/16 00:00

Client ID: GRAB DUP

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	11	0.32	1
1,4-Dioxane	ND		ug/kg	230	33.	1
p-Diethylbenzene	ND		ug/kg	9.1	0.36	1
p-Ethyltoluene	ND		ug/kg	9.1	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	9.1	0.30	1
Ethyl ether	ND		ug/kg	11	0.59	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	0.89	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/26/16 08:35
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG907992-5					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/26/16 08:35
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG907992-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/26/16 08:35
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG907992-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	100	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG907992-3 WG907992-4								
Methylene chloride	93		94		70-130	1		30
1,1-Dichloroethane	102		99		70-130	3		30
Chloroform	99		97		70-130	2		30
Carbon tetrachloride	94		91		70-130	3		30
1,2-Dichloropropane	100		100		70-130	0		30
Dibromochloromethane	86		89		70-130	3		30
2-Chloroethylvinyl ether	90		90		70-130	0		30
1,1,2-Trichloroethane	93		92		70-130	1		30
Tetrachloroethene	90		86		70-130	5		30
Chlorobenzene	91		89		70-130	2		30
Trichlorofluoromethane	129		120		70-139	7		30
1,2-Dichloroethane	100		101		70-130	1		30
1,1,1-Trichloroethane	98		94		70-130	4		30
Bromodichloromethane	96		95		70-130	1		30
trans-1,3-Dichloropropene	87		88		70-130	1		30
cis-1,3-Dichloropropene	94		94		70-130	0		30
1,1-Dichloropropene	102		95		70-130	7		30
Bromoform	82		86		70-130	5		30
1,1,2,2-Tetrachloroethane	90		88		70-130	2		30
Benzene	98		96		70-130	2		30
Toluene	94		90		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG907992-3 WG907992-4								
Ethylbenzene	96		92		70-130	4		30
Chloromethane	101		98		52-130	3		30
Bromomethane	112		112		57-147	0		30
Vinyl chloride	110		102		67-130	8		30
Chloroethane	132		125		50-151	5		30
1,1-Dichloroethene	96		92		65-135	4		30
trans-1,2-Dichloroethene	95		92		70-130	3		30
Trichloroethene	99		94		70-130	5		30
1,2-Dichlorobenzene	87		86		70-130	1		30
1,3-Dichlorobenzene	89		86		70-130	3		30
1,4-Dichlorobenzene	88		87		70-130	1		30
Methyl tert butyl ether	93		93		66-130	0		30
p/m-Xylene	94		91		70-130	3		30
o-Xylene	94		92		70-130	2		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	94		98		70-130	4		30
Styrene	94		93		70-130	1		30
Dichlorodifluoromethane	91		83		30-146	9		30
Acetone	110		115		54-140	4		30
Carbon disulfide	92		88		59-130	4		30
2-Butanone	101		102		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG907992-3 WG907992-4								
Vinyl acetate	93		95		70-130	2		30
4-Methyl-2-pentanone	91		92		70-130	1		30
1,2,3-Trichloropropane	89		93		68-130	4		30
2-Hexanone	96		96		70-130	0		30
Bromochloromethane	92		93		70-130	1		30
2,2-Dichloropropane	92		89		70-130	3		30
1,2-Dibromoethane	87		88		70-130	1		30
1,3-Dichloropropane	92		92		69-130	0		30
1,1,1,2-Tetrachloroethane	85		85		70-130	0		30
Bromobenzene	85		83		70-130	2		30
n-Butylbenzene	101		96		70-130	5		30
sec-Butylbenzene	97		91		70-130	6		30
tert-Butylbenzene	93		88		70-130	6		30
o-Chlorotoluene	97		93		70-130	4		30
p-Chlorotoluene	93		90		70-130	3		30
1,2-Dibromo-3-chloropropane	75		80		68-130	6		30
Hexachlorobutadiene	88		84		67-130	5		30
Isopropylbenzene	93		89		70-130	4		30
p-Isopropyltoluene	95		90		70-130	5		30
Naphthalene	84		84		70-130	0		30
Acrylonitrile	101		103		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG907992-3 WG907992-4								
Isopropyl Ether	103		104		66-130	1		30
tert-Butyl Alcohol	71		74		70-130	4		30
n-Propylbenzene	97		92		70-130	5		30
1,2,3-Trichlorobenzene	86		86		70-130	0		30
1,2,4-Trichlorobenzene	87		86		70-130	1		30
1,3,5-Trimethylbenzene	94		90		70-130	4		30
1,2,4-Trimethylbenzene	93		91		70-130	2		30
Methyl Acetate	96		97		51-146	1		30
Ethyl Acetate	108		109		70-130	1		30
Acrolein	101		103		70-130	2		30
Cyclohexane	106		100		59-142	6		30
1,4-Dioxane	84		84		65-136	0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		92		50-139	6		30
p-Diethylbenzene	95		90		70-130	5		30
p-Ethyltoluene	95		90		70-130	5		30
1,2,4,5-Tetramethylbenzene	92		91		70-130	1		30
Tetrahydrofuran	98		102		66-130	4		30
Ethyl ether	102		101		67-130	1		30
trans-1,4-Dichloro-2-butene	91		91		70-130	0		30
Methyl cyclohexane	101		93		70-130	8		30
Ethyl-Tert-Butyl-Ether	96		97		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG907992-3 WG907992-4								
Tertiary-Amyl Methyl Ether	91		91		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		105		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	99		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG907992-6 QC Sample: L1618706-01 Client ID: GRAB 001												
Methylene chloride	ND	27.8	28	102		-	-		70-130	-		30
1,1-Dichloroethane	ND	27.8	32	113		-	-		70-130	-		30
Chloroform	ND	27.8	29	104		-	-		70-130	-		30
Carbon tetrachloride	ND	27.8	29	104		-	-		70-130	-		30
1,2-Dichloropropane	ND	27.8	29	105		-	-		70-130	-		30
Dibromochloromethane	ND	27.8	23	81		-	-		70-130	-		30
1,1,2-Trichloroethane	ND	27.8	25	89		-	-		70-130	-		30
Tetrachloroethene	ND	27.8	23	81		-	-		70-130	-		30
Chlorobenzene	ND	27.8	21	75		-	-		70-130	-		30
Trichlorofluoromethane	ND	27.8	46	164	Q	-	-		70-139	-		30
1,2-Dichloroethane	ND	27.8	29	104		-	-		70-130	-		30
1,1,1-Trichloroethane	ND	27.8	31	110		-	-		70-130	-		30
Bromodichloromethane	ND	27.8	26	94		-	-		70-130	-		30
trans-1,3-Dichloropropene	ND	27.8	21	77		-	-		70-130	-		30
cis-1,3-Dichloropropene	ND	27.8	22	80		-	-		70-130	-		30
1,1-Dichloropropene	ND	27.8	31	110		-	-		70-130	-		30
Bromoform	ND	27.8	21	74		-	-		70-130	-		30
1,1,2,2-Tetrachloroethane	ND	27.8	23	82		-	-		70-130	-		30
Benzene	ND	27.8	29	103		-	-		70-130	-		30
Toluene	3.9	27.8	27	82		-	-		70-130	-		30
Ethylbenzene	ND	27.8	23	82		-	-		70-130	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG907992-6 QC Sample: L1618706-01 Client ID: GRAB 001												
Chloromethane	ND	27.8	33	117		-	-		52-130	-		30
Bromomethane	ND	27.8	35	127		-	-		57-147	-		30
Vinyl chloride	ND	27.8	40	143	Q	-	-		67-130	-		30
Chloroethane	ND	27.8	45	163	Q	-	-		50-151	-		30
1,1-Dichloroethene	ND	27.8	33	118		-	-		65-135	-		30
trans-1,2-Dichloroethene	ND	27.8	29	105		-	-		70-130	-		30
Trichloroethene	ND	27.8	28	100		-	-		70-130	-		30
1,2-Dichlorobenzene	ND	27.8	15	52	Q	-	-		70-130	-		30
1,3-Dichlorobenzene	ND	27.8	14	52	Q	-	-		70-130	-		30
1,4-Dichlorobenzene	ND	27.8	14	51	Q	-	-		70-130	-		30
Methyl tert butyl ether	ND	27.8	27	97		-	-		66-130	-		30
p/m-Xylene	ND	55.7	43	76		-	-		70-130	-		30
o-Xylene	ND	55.7	43	77		-	-		70-130	-		30
cis-1,2-Dichloroethene	ND	27.8	28	100		-	-		70-130	-		30
Dibromomethane	ND	27.8	27	97		-	-		70-130	-		30
Styrene	ND	55.7	38	68	Q	-	-		70-130	-		30
Dichlorodifluoromethane	ND	27.8	31	111		-	-		30-146	-		30
Acetone	90	27.8	57	0	Q	-	-		54-140	-		30
Carbon disulfide	ND	27.8	29	106		-	-		59-130	-		30
2-Butanone	ND	27.8	23	81		-	-		70-130	-		30
Vinyl acetate	ND	27.8	5.3J	19	Q	-	-		70-130	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG907992-6 QC Sample: L1618706-01 Client ID: GRAB 001												
4-Methyl-2-pentanone	ND	27.8	26	93		-	-		70-130	-		30
1,2,3-Trichloropropane	ND	27.8	25	89		-	-		68-130	-		30
2-Hexanone	ND	27.8	20	71		-	-		70-130	-		30
Bromochloromethane	ND	27.8	27	96		-	-		70-130	-		30
2,2-Dichloropropane	ND	27.8	28	100		-	-		70-130	-		30
1,2-Dibromoethane	ND	27.8	23	83		-	-		70-130	-		30
1,3-Dichloropropane	ND	27.8	25	91		-	-		69-130	-		30
1,1,1,2-Tetrachloroethane	ND	27.8	21	77		-	-		70-130	-		30
Bromobenzene	ND	27.8	17	62	Q	-	-		70-130	-		30
n-Butylbenzene	ND	27.8	14	49	Q	-	-		70-130	-		30
sec-Butylbenzene	ND	27.8	17	61	Q	-	-		70-130	-		30
tert-Butylbenzene	ND	27.8	18	66	Q	-	-		70-130	-		30
o-Chlorotoluene	ND	27.8	19	67	Q	-	-		70-130	-		30
p-Chlorotoluene	ND	27.8	17	60	Q	-	-		70-130	-		30
1,2-Dibromo-3-chloropropane	ND	27.8	19	67	Q	-	-		68-130	-		30
Hexachlorobutadiene	ND	27.8	8.7	31	Q	-	-		67-130	-		30
Isopropylbenzene	ND	27.8	21	74		-	-		70-130	-		30
p-Isopropyltoluene	ND	27.8	13	46	Q	-	-		70-130	-		30
Naphthalene	ND	27.8	12	42	Q	-	-		70-130	-		30
Acrylonitrile	ND	27.8	28	102		-	-		70-130	-		30
n-Propylbenzene	ND	27.8	19	68	Q	-	-		70-130	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG907992-6 QC Sample: L1618706-01 Client ID: GRAB 001												
1,2,3-Trichlorobenzene	ND	27.8	8.9	32	Q	-	-		70-130	-		30
1,2,4-Trichlorobenzene	ND	27.8	9.2	33	Q	-	-		70-130	-		30
1,3,5-Trimethylbenzene	ND	27.8	18	65	Q	-	-		70-130	-		30
1,2,4-Trimethylbenzene	ND	27.8	17	61	Q	-	-		70-130	-		30
1,4-Dioxane	ND	1390	1700	120		-	-		65-136	-		30
1,4-Diethylbenzene	ND	27.8	13	47	Q	-	-		70-130	-		30
4-Ethyltoluene	ND	27.8	17	60	Q	-	-		70-130	-		30
1,2,4,5-Tetramethylbenzene	ND	27.8	13	46	Q	-	-		70-130	-		30
Ethyl ether	ND	27.8	30	107		-	-		67-130	-		30
trans-1,4-Dichloro-2-butene	ND	27.8	19	68	Q	-	-		70-130	-		30

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,2-Dichloroethane-d4	109				70-130
4-Bromofluorobenzene	100				70-130
Dibromofluoromethane	100				70-130
Toluene-d8	99				70-130

SEMIVOLATILES

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-06
 Client ID: COMP 001
 Sample Location: HALF HOLLOW RD., DIX HILLS
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/27/16 15:35
 Analyst: PS
 Percent Solids: 93%

Date Collected: 06/17/16 00:00
 Date Received: 06/17/16
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 06/23/16 22:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-06

Date Collected: 06/17/16 00:00

Client ID: COMP 001

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	31	J	ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-06

Date Collected: 06/17/16 00:00

Client ID: COMP 001

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	105		18-120

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-07
Client ID: COMP 002
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/27/16 14:44
Analyst: PS
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/16 22:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	21	J	ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-07

Date Collected: 06/17/16 00:00

Client ID: COMP 002

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	19	J	ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-07

Date Collected: 06/17/16 00:00

Client ID: COMP 002

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	90		18-120

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-08
Client ID: COMP DUP
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/27/16 15:10
Analyst: PS
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/16 22:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.	1
2,4-Dinitrotoluene	ND		ug/kg	170	33.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-08

Date Collected: 06/17/16 00:00

Client ID: COMP DUP

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	69.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	230	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	78.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	80.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-08

Date Collected: 06/17/16 00:00

Client ID: COMP DUP

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	90		18-120

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 06/26/16 21:56
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 06/23/16 22:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-08 Batch: WG907205-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 06/26/16 21:56
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 06/23/16 22:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-08 Batch: WG907205-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 06/26/16 21:56
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 06/23/16 22:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-08 Batch: WG907205-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	107		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 Batch: WG907205-2 WG907205-3								
Acenaphthene	89		100		31-137	12		50
1,2,4-Trichlorobenzene	92		102		38-107	10		50
Hexachlorobenzene	102		115		40-140	12		50
Bis(2-chloroethyl)ether	89		98		40-140	10		50
2-Chloronaphthalene	94		105		40-140	11		50
1,2-Dichlorobenzene	83		89		40-140	7		50
1,3-Dichlorobenzene	82		88		40-140	7		50
1,4-Dichlorobenzene	83		87		28-104	5		50
3,3'-Dichlorobenzidine	62		72		40-140	15		50
2,4-Dinitrotoluene	104	Q	120	Q	28-89	14		50
2,6-Dinitrotoluene	108		123		40-140	13		50
Fluoranthene	100		113		40-140	12		50
4-Chlorophenyl phenyl ether	100		112		40-140	11		50
4-Bromophenyl phenyl ether	96		113		40-140	16		50
Bis(2-chloroisopropyl)ether	65		73		40-140	12		50
Bis(2-chloroethoxy)methane	92		105		40-117	13		50
Hexachlorobutadiene	106		119		40-140	12		50
Hexachlorocyclopentadiene	102		113		40-140	10		50
Hexachloroethane	97		104		40-140	7		50
Isophorone	100		113		40-140	12		50
Naphthalene	89		98		40-140	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 Batch: WG907205-2 WG907205-3								
Nitrobenzene	100		112		40-140	11		50
NDPA/DPA	99		111		36-157	11		50
n-Nitrosodi-n-propylamine	100		111		32-121	10		50
Bis(2-ethylhexyl)phthalate	113		126		40-140	11		50
Butyl benzyl phthalate	114		125		40-140	9		50
Di-n-butylphthalate	105		120		40-140	13		50
Di-n-octylphthalate	103		115		40-140	11		50
Diethyl phthalate	104		117		40-140	12		50
Dimethyl phthalate	99		112		40-140	12		50
Benzo(a)anthracene	99		111		40-140	11		50
Benzo(a)pyrene	113		124		40-140	9		50
Benzo(b)fluoranthene	97		112		40-140	14		50
Benzo(k)fluoranthene	102		114		40-140	11		50
Chrysene	95		107		40-140	12		50
Acenaphthylene	99		111		40-140	11		50
Anthracene	92		103		40-140	11		50
Benzo(ghi)perylene	100		112		40-140	11		50
Fluorene	97		112		40-140	14		50
Phenanthrene	85		96		40-140	12		50
Dibenzo(a,h)anthracene	100		110		40-140	10		50
Indeno(1,2,3-cd)pyrene	103		117		40-140	13		50

Lab Control Sample Analysis Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 Batch: WG907205-2 WG907205-3								
Pyrene	101		110		35-142	9		50
Biphenyl	94		105	Q	54-104	11		50
4-Chloroaniline	99		105		40-140	6		50
2-Nitroaniline	99		111		47-134	11		50
3-Nitroaniline	72		83		26-129	14		50
4-Nitroaniline	91		106		41-125	15		50
Dibenzofuran	95		107		40-140	12		50
2-Methylnaphthalene	89		97		40-140	9		50
1,2,4,5-Tetrachlorobenzene	100		112		40-117	11		50
Acetophenone	100		112		14-144	11		50
2,4,6-Trichlorophenol	107		123		30-130	14		50
p-Chloro-m-cresol	112	Q	127	Q	26-103	13		50
2-Chlorophenol	92		103	Q	25-102	11		50
2,4-Dichlorophenol	98		110		30-130	12		50
2,4-Dimethylphenol	102		113		30-130	10		50
2-Nitrophenol	98		111		30-130	12		50
4-Nitrophenol	125	Q	122	Q	11-114	2		50
2,4-Dinitrophenol	86		84		4-130	2		50
4,6-Dinitro-o-cresol	100		108		10-130	8		50
Pentachlorophenol	99		114	Q	17-109	14		50
Phenol	86		94	Q	26-90	9		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 Batch: WG907205-2 WG907205-3								
2-Methylphenol	92		102		30-130.	10		50
3-Methylphenol/4-Methylphenol	89		101		30-130	13		50
2,4,5-Trichlorophenol	108		121		30-130	11		50
Benzoic Acid	58		57		10-66	2		50
Benzyl Alcohol	100		111		40-140	10		50
Carbazole	95		106		54-128	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		100		25-120
Phenol-d6	99		107		10-120
Nitrobenzene-d5	105		117		23-120
2-Fluorobiphenyl	96		108		30-120
2,4,6-Tribromophenol	107		123		10-136
4-Terphenyl-d14	95		102		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG907205-4 WG907205-5 QC Sample: L1618706-06 Client ID: COMP 001												
Acenaphthene	ND	1400	1300	93		1200	85		31-137	8		50
1,2,4-Trichlorobenzene	ND	1400	1400	100		1300	92		38-107	7		50
Hexachlorobenzene	ND	1400	1500	110		1300	92		40-140	14		50
Bis(2-chloroethyl)ether	ND	1400	1300	93		1200	85		40-140	8		50
2-Chloronaphthalene	ND	1400	1400	100		1300	92		40-140	7		50
1,2-Dichlorobenzene	ND	1400	1200	86		1100	78		40-140	9		50
1,3-Dichlorobenzene	ND	1400	1200	86		1100	78		40-140	9		50
1,4-Dichlorobenzene	ND	1400	1200	86		1100	78		28-104	9		50
3,3'-Dichlorobenzidine	ND	1400	850	61		830	59		40-140	2		50
2,4-Dinitrotoluene	ND	1400	1100	79		970	68		28-89	13		50
2,6-Dinitrotoluene	ND	1400	1200	86		1100	78		40-140	9		50
Fluoranthene	ND	1400	1500	110		1300	92		40-140	14		50
4-Chlorophenyl phenyl ether	ND	1400	1500	110		1300	92		40-140	14		50
4-Bromophenyl phenyl ether	ND	1400	1400	100		1300	92		40-140	7		50
Bis(2-chloroisopropyl)ether	ND	1400	950	68		870	61		40-140	9		50
Bis(2-chloroethoxy)methane	ND	1400	1400	100		1200	85		40-117	15		50
Hexachlorobutadiene	ND	1400	1600	110		1500	110		40-140	6		50
Hexachlorocyclopentadiene	ND	1400	550	39	Q	320J	23	Q	40-140	53	Q	50
Hexachloroethane	ND	1400	1200	86		1100	78		40-140	9		50
Isophorone	ND	1400	1400	100		1300	92		40-140	7		50
Naphthalene	ND	1400	1300	93		1200	85		40-140	8		50

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG907205-4 WG907205-5 QC Sample: L1618706-06 Client ID: COMP 001												
Nitrobenzene	ND	1400	1500	110		1400	99		40-140	7		50
NDPA/DPA	ND	1400	1400	100		1200	85		36-157	15		50
n-Nitrosodi-n-propylamine	ND	1400	1400	100		1300	92		32-121	7		50
Bis(2-ethylhexyl)phthalate	ND	1400	1600	110		1400	99		40-140	13		50
Butyl benzyl phthalate	ND	1400	1700	120		1500	110		40-140	13		50
Di-n-butylphthalate	ND	1400	1600	110		1400	99		40-140	13		50
Di-n-octylphthalate	ND	1400	1600	110		1400	99		40-140	13		50
Diethyl phthalate	ND	1400	1500	110		1300	92		40-140	14		50
Dimethyl phthalate	ND	1400	1400	100		1300	92		40-140	7		50
Benzo(a)anthracene	ND	1400	1500	110		1300	92		40-140	14		50
Benzo(a)pyrene	ND	1400	1500	110		1400	99		40-140	7		50
Benzo(b)fluoranthene	ND	1400	1500	110		1300	92		40-140	14		50
Benzo(k)fluoranthene	ND	1400	1400	100		1300	92		40-140	7		50
Chrysene	ND	1400	1300	93		1200	85		40-140	8		50
Acenaphthylene	ND	1400	1400	100		1300	92		40-140	7		50
Anthracene	ND	1400	1300	93		1200	85		40-140	8		50
Benzo(ghi)perylene	ND	1400	1500	110		1300	92		40-140	14		50
Fluorene	ND	1400	1400	100		1300	92		40-140	7		50
Phenanthrene	ND	1400	1200	86		1100	78		40-140	9		50
Dibenzo(a,h)anthracene	ND	1400	1500	110		1400	99		40-140	7		50
Indeno(1,2,3-cd)pyrene	ND	1400	1600	110		1400	99		40-140	13		50

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG907205-4 WG907205-5 QC Sample: L1618706-06 Client ID: COMP 001												
Pyrene	ND	1400	1500	110		1300	92		35-142	14		50
Biphenyl	ND	1400	1400	100		1300	92		54-104	7		50
4-Chloroaniline	ND	1400	1200	86		1200	85		40-140	0		50
2-Nitroaniline	ND	1400	1500	110		1400	99		47-134	7		50
3-Nitroaniline	ND	1400	1400	100		1300	92		26-129	7		50
4-Nitroaniline	ND	1400	1500	110		1300	92		41-125	14		50
Dibenzofuran	ND	1400	1400	100		1200	85		40-140	15		50
2-Methylnaphthalene	ND	1400	1300	93		1200	85		40-140	8		50
1,2,4,5-Tetrachlorobenzene	ND	1400	1500	110		1400	99		40-117	7		50
Acetophenone	ND	1400	1500	110		1300	92		14-144	14		50
2,4,6-Trichlorophenol	ND	1400	1600	110		1500	110		30-130	6		50
p-Chloro-m-cresol	ND	1400	1600	110	Q	1400	99		26-103	13		50
2-Chlorophenol	ND	1400	1400	100		1200	85		25-102	15		50
2,4-Dichlorophenol	ND	1400	1400	100		1300	92		30-130	7		50
2,4-Dimethylphenol	ND	1400	1300	93		1200	85		30-130	8		50
2-Nitrophenol	ND	1400	910	65		750	53		30-130	19		50
4-Nitrophenol	ND	1400	1600	110		1400	99		11-114	13		50
2,4-Dinitrophenol	ND	1400	250J	18		160J	11		4-130	44		50
4,6-Dinitro-o-cresol	ND	1400	260J	19		150J	11		10-130	54	Q	50
Pentachlorophenol	ND	1400	1500	110	Q	1400	99		17-109	7		50
Phenol	ND	1400	1200	86		1100	78		26-90	9		50

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG907205-4 WG907205-5 QC Sample: L1618706-06 Client ID: COMP 001												
2-Methylphenol	ND	1400	1300	93		1200	85		30-130.	8		50
3-Methylphenol/4-Methylphenol	31.J	1400	1400	100		1200	85		30-130	15		50
2,4,5-Trichlorophenol	ND	1400	1500	110		1400	99		30-130	7		50
Benzoic Acid	ND	1400	850	61		760	54		10-66	11		50
Benzyl Alcohol	ND	1400	1400	100		1300	92		40-140	7		50
Carbazole	ND	1400	1300	93		1200	85		54-128	8		50

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
2,4,6-Tribromophenol	108		97		10-136
2-Fluorobiphenyl	97		89		30-120
2-Fluorophenol	93		83		25-120
4-Terphenyl-d14	99		88		18-120
Nitrobenzene-d5	103		91		23-120
Phenol-d6	96		86		10-120

PCBS

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-06
Client ID: COMP 001
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/24/16 16:47
Analyst: JA
Percent Solids: 93%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/16 01:25
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/16
Cleanup Method: EPA 3660B
Cleanup Date: 06/23/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	2.72	1	A
Aroclor 1221	ND		ug/kg	34.4	3.17	1	A
Aroclor 1232	ND		ug/kg	34.4	4.04	1	A
Aroclor 1242	ND		ug/kg	34.4	4.21	1	A
Aroclor 1248	ND		ug/kg	34.4	2.91	1	A
Aroclor 1254	ND		ug/kg	34.4	2.83	1	A
Aroclor 1260	ND		ug/kg	34.4	2.62	1	A
Aroclor 1262	ND		ug/kg	34.4	1.71	1	A
Aroclor 1268	ND		ug/kg	34.4	4.99	1	A
PCBs, Total	ND		ug/kg	34.4	1.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-07
Client ID: COMP 002
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/24/16 16:59
Analyst: JA
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/16 01:25
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/16
Cleanup Method: EPA 3660B
Cleanup Date: 06/23/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.2	2.62	1	A
Aroclor 1221	ND		ug/kg	33.2	3.06	1	A
Aroclor 1232	ND		ug/kg	33.2	3.89	1	A
Aroclor 1242	ND		ug/kg	33.2	4.06	1	A
Aroclor 1248	ND		ug/kg	33.2	2.80	1	A
Aroclor 1254	ND		ug/kg	33.2	2.73	1	A
Aroclor 1260	ND		ug/kg	33.2	2.53	1	A
Aroclor 1262	ND		ug/kg	33.2	1.65	1	A
Aroclor 1268	ND		ug/kg	33.2	4.81	1	A
PCBs, Total	ND		ug/kg	33.2	1.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	33		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-08
Client ID: COMP DUP
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/24/16 17:12
Analyst: JA
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/23/16 01:25
Cleanup Method: EPA 3665A
Cleanup Date: 06/23/16
Cleanup Method: EPA 3660B
Cleanup Date: 06/23/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	2.66	1	A
Aroclor 1221	ND		ug/kg	33.7	3.11	1	A
Aroclor 1232	ND		ug/kg	33.7	3.95	1	A
Aroclor 1242	ND		ug/kg	33.7	4.13	1	A
Aroclor 1248	ND		ug/kg	33.7	2.85	1	A
Aroclor 1254	ND		ug/kg	33.7	2.77	1	A
Aroclor 1260	ND		ug/kg	33.7	2.57	1	A
Aroclor 1262	ND		ug/kg	33.7	1.67	1	A
Aroclor 1268	ND		ug/kg	33.7	4.89	1	A
PCBs, Total	ND		ug/kg	33.7	1.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	26	Q	30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	28	Q	30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-08 **RE**
Client ID: COMP DUP
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/16 09:17
Analyst: KE
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/27/16 17:32
Cleanup Method: EPA 3665A
Cleanup Date: 06/27/16
Cleanup Method: EPA 3660B
Cleanup Date: 06/27/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	32.7	2.59	1	A
Aroclor 1221	ND		ug/kg	32.7	3.02	1	A
Aroclor 1232	ND		ug/kg	32.7	3.84	1	A
Aroclor 1242	ND		ug/kg	32.7	4.01	1	A
Aroclor 1248	ND		ug/kg	32.7	2.76	1	A
Aroclor 1254	ND		ug/kg	32.7	2.69	1	A
Aroclor 1260	ND		ug/kg	32.7	2.49	1	A
Aroclor 1262	ND		ug/kg	32.7	1.62	1	A
Aroclor 1268	ND		ug/kg	32.7	4.75	1	A
PCBs, Total	ND		ug/kg	32.7	1.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	9	Q	30-150	A
Decachlorobiphenyl	10	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	9	Q	30-150	B
Decachlorobiphenyl	9	Q	30-150	B

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 06/24/16 15:45
 Analyst: JA

Extraction Method: EPA 3546
 Extraction Date: 06/23/16 01:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/23/16
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/23/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06-08 Batch: WG906822-1						
Aroclor 1016	ND		ug/kg	31.8	2.52	A
Aroclor 1221	ND		ug/kg	31.8	2.94	A
Aroclor 1232	ND		ug/kg	31.8	3.73	A
Aroclor 1242	ND		ug/kg	31.8	3.90	A
Aroclor 1248	ND		ug/kg	31.8	2.69	A
Aroclor 1254	ND		ug/kg	31.8	2.62	A
Aroclor 1260	ND		ug/kg	31.8	2.43	A
Aroclor 1262	ND		ug/kg	31.8	1.58	A
Aroclor 1268	ND		ug/kg	31.8	4.62	A
PCBs, Total	ND		ug/kg	31.8	1.58	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 06/28/16 08:35
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 06/27/16 17:32
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/27/16
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/27/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08 Batch: WG908149-1						
Aroclor 1016	ND		ug/kg	32.5	2.57	A
Aroclor 1221	ND		ug/kg	32.5	3.00	A
Aroclor 1232	ND		ug/kg	32.5	3.81	A
Aroclor 1242	ND		ug/kg	32.5	3.98	A
Aroclor 1248	ND		ug/kg	32.5	2.74	A
Aroclor 1254	ND		ug/kg	32.5	2.67	A
Aroclor 1260	ND		ug/kg	32.5	2.48	A
Aroclor 1262	ND		ug/kg	32.5	1.61	A
Aroclor 1268	ND		ug/kg	32.5	4.71	A
PCBs, Total	ND		ug/kg	32.5	1.61	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	52		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG906822-4 WG906822-5 QC Sample: L1618706-06 Client ID: COMP 001													
Aroclor 1016	ND	221	117	53		129	60		40-140	10		50	A
Aroclor 1260	ND	221	81.2	37	Q	94.9	44		40-140	16		50	A

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	34		37		30-150	A
Decachlorobiphenyl	40		44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	33		37		30-150	B
Decachlorobiphenyl	48		59		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG906822-2 WG906822-3									
Aroclor 1016	60		57		40-140	5		50	A
Aroclor 1260	53		61		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		49		30-150	A
Decachlorobiphenyl	63		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		43		30-150	B
Decachlorobiphenyl	71		69		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08 Batch: WG908149-2 WG908149-3									
Aroclor 1016	66		66		40-140	0		50	A
Aroclor 1260	56		57		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		61		30-150	A
Decachlorobiphenyl	60		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		55		30-150	B
Decachlorobiphenyl	51		53		30-150	B

PESTICIDES

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-06
Client ID: COMP 001
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/01/16 12:09
Analyst: SS
Percent Solids: 93%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/16 12:03
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.324	1	A
Lindane	ND		ug/kg	0.690	0.309	1	A
Alpha-BHC	ND		ug/kg	0.690	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.828	0.371	1	A
Aldrin	ND		ug/kg	1.66	0.583	1	A
Heptachlor epoxide	7.46		ug/kg	3.11	0.932	1	A
Endrin	ND		ug/kg	0.690	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.725	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	39.2		ug/kg	1.04	0.518	1	A
4,4'-DDE	268	E	ug/kg	1.66	0.383	1	B
4,4'-DDD	78.3		ug/kg	1.66	0.591	1	B
4,4'-DDT	202	E	ug/kg	3.11	1.33	1	B
Endosulfan I	ND		ug/kg	1.66	0.391	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.690	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.967	1	A
Toxaphene	ND		ug/kg	31.1	8.70	1	A
cis-Chlordane	29.7		ug/kg	2.07	0.577	1	B
trans-Chlordane	22.4	PI	ug/kg	2.07	0.547	1	A
Chlordane	170	PI	ug/kg	13.5	5.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-06
Client ID: COMP 001
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/24/16 05:57
Analyst: AL
Percent Solids: 93%
Methylation Date: 06/20/16 16:12

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/19/16 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	76		30-150	B

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-06 D
Client ID: COMP 001
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/01/16 15:51
Analyst: SS
Percent Solids: 93%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/16 12:03
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDE	260		ug/kg	8.28	1.92	5	B
4,4'-DDT	164		ug/kg	15.5	6.66	5	A

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-07
Client ID: COMP 002
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/01/16 12:25
Analyst: SS
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/16 12:03
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.312	1	A
Lindane	ND		ug/kg	0.663	0.296	1	A
Alpha-BHC	ND		ug/kg	0.663	0.188	1	A
Beta-BHC	ND		ug/kg	1.59	0.603	1	A
Heptachlor	ND		ug/kg	0.796	0.357	1	A
Aldrin	ND		ug/kg	1.59	0.560	1	A
Heptachlor epoxide	4.61	PI	ug/kg	2.98	0.895	1	B
Endrin	ND		ug/kg	0.663	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	1	A
Endrin ketone	ND		ug/kg	1.59	0.410	1	A
Dieldrin	36.8		ug/kg	0.994	0.497	1	B
4,4'-DDE	253	E	ug/kg	1.59	0.368	1	B
4,4'-DDD	77.6		ug/kg	1.59	0.568	1	B
4,4'-DDT	181	E	ug/kg	2.98	1.28	1	B
Endosulfan I	ND		ug/kg	1.59	0.376	1	A
Endosulfan II	ND		ug/kg	1.59	0.532	1	A
Endosulfan sulfate	ND		ug/kg	0.663	0.316	1	A
Methoxychlor	ND		ug/kg	2.98	0.928	1	A
Toxaphene	ND		ug/kg	29.8	8.35	1	A
cis-Chlordane	32.5		ug/kg	1.99	0.554	1	B
trans-Chlordane	23.0	PI	ug/kg	1.99	0.525	1	A
Chlordane	212		ug/kg	12.9	5.27	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-07
Client ID: COMP 002
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/24/16 06:16
Analyst: AL
Percent Solids: 97%
Methylation Date: 06/20/16 16:12

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/19/16 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	168	10.6	1	A
2,4,5-T	ND		ug/kg	168	5.22	1	A
2,4,5-TP (Silvex)	ND		ug/kg	168	4.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	86		30-150	B

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-07 D
Client ID: COMP 002
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/01/16 16:07
Analyst: SS
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/16 12:03
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDE	262		ug/kg	7.96	1.84	5	B
4,4'-DDT	162		ug/kg	14.9	6.40	5	B

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-08
 Client ID: COMP DUP
 Sample Location: HALF HOLLOW RD., DIX HILLS
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/01/16 12:41
 Analyst: SS
 Percent Solids: 97%

Date Collected: 06/17/16 00:00
 Date Received: 06/17/16
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 06/30/16 12:03
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.315	1	A
Lindane	ND		ug/kg	0.670	0.300	1	A
Alpha-BHC	ND		ug/kg	0.670	0.190	1	A
Beta-BHC	ND		ug/kg	1.61	0.610	1	A
Heptachlor	ND		ug/kg	0.804	0.361	1	A
Aldrin	ND		ug/kg	1.61	0.566	1	A
Heptachlor epoxide	5.22	PI	ug/kg	3.02	0.905	1	B
Endrin	ND		ug/kg	0.670	0.275	1	A
Endrin aldehyde	ND		ug/kg	2.01	0.704	1	A
Endrin ketone	ND		ug/kg	1.61	0.414	1	A
Dieldrin	43.2		ug/kg	1.00	0.503	1	A
4,4'-DDE	281	E	ug/kg	1.61	0.372	1	B
4,4'-DDD	87.3		ug/kg	1.61	0.574	1	B
4,4'-DDT	215	E	ug/kg	3.02	1.29	1	B
Endosulfan I	ND		ug/kg	1.61	0.380	1	A
Endosulfan II	ND		ug/kg	1.61	0.538	1	A
Endosulfan sulfate	ND		ug/kg	0.670	0.319	1	A
Methoxychlor	ND		ug/kg	3.02	0.939	1	A
Toxaphene	ND		ug/kg	30.2	8.45	1	A
cis-Chlordane	38.5		ug/kg	2.01	0.560	1	B
trans-Chlordane	29.8	PI	ug/kg	2.01	0.531	1	A
Chlordane	266		ug/kg	13.1	5.33	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-08
Client ID: COMP DUP
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 06/24/16 06:36
Analyst: AL
Percent Solids: 97%
Methylation Date: 06/20/16 16:12

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 8151A
Extraction Date: 06/19/16 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.32	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	86		30-150	B

Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**SAMPLE RESULTS**

Lab ID: L1618706-08 D
Client ID: COMP DUP
Sample Location: HALF HOLLOW RD., DIX HILLS
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/01/16 16:23
Analyst: SS
Percent Solids: 97%

Date Collected: 06/17/16 00:00
Date Received: 06/17/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 06/30/16 12:03
Cleanup Method: EPA 3620B
Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDE	297		ug/kg	8.04	1.86	5	B
4,4'-DDT	182		ug/kg	15.1	6.47	5	B

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 06/21/16 22:36
 Analyst: SS

Extraction Method: EPA 8151A
 Extraction Date: 06/19/16 13:09

Methylation Date: 06/20/16 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 06-08 Batch: WG905540-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	81		30-150	B

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 07/01/16 10:48
 Analyst: SS

Extraction Method: EPA 3546
 Extraction Date: 06/30/16 12:03
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-08 Batch: WG909285-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.649	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.682	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.974	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.909	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	12.7	5.16	A

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 07/01/16 10:48
 Analyst: SS

Extraction Method: EPA 3546
 Extraction Date: 06/30/16 12:03
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/30/16

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-08 Batch: WG909285-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	104		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG905540-2 WG905540-3									
2,4-D	98		97		30-150	1		30	A
2,4,5-T	96		97		30-150	1		30	A
2,4,5-TP (Silvex)	89		89		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	77		76		30-150	A
DCAA	89		85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG909285-2 WG909285-3									
Delta-BHC	99		89		30-150	11		30	A
Lindane	107		98		30-150	9		30	A
Alpha-BHC	93		86		30-150	8		30	A
Beta-BHC	103		91		30-150	12		30	A
Heptachlor	112		102		30-150	9		30	A
Aldrin	103		96		30-150	7		30	A
Heptachlor epoxide	108		102		30-150	6		30	A
Endrin	118		110		30-150	7		30	A
Endrin aldehyde	77		71		30-150	8		30	A
Endrin ketone	108		94		30-150	14		30	A
Dieldrin	116		109		30-150	6		30	A
4,4'-DDE	104		98		30-150	6		30	A
4,4'-DDD	99		99		30-150	0		30	A
4,4'-DDT	124		114		30-150	8		30	A
Endosulfan I	113		107		30-150	5		30	A
Endosulfan II	111		101		30-150	9		30	A
Endosulfan sulfate	86		67		30-150	25		30	A
Methoxychlor	119		103		30-150	14		30	A
cis-Chlordane	101		92		30-150	9		30	A
trans-Chlordane	101		94		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG909285-2 WG909285-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		87		30-150	B
Decachlorobiphenyl	85		105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		92		30-150	A
Decachlorobiphenyl	107		103		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG905540-4 WG905540-5 QC Sample: L1618706-06 Client ID: COMP 001													
2,4-D	ND	357	346	97		345	96		30-150	0		30	A
2,4,5-T	ND	357	346	97		371	104		30-150	7		30	A
2,4,5-TP (Silvex)	ND	357	333	93		336	94		30-150	1		30	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		84		30-150	A
DCAA	86		78		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab COMP 001 Associated sample(s): 06-08 QC Batch ID: WG909285-4 WG909285-5 QC Sample: L1618706-06 Client ID:													
Delta-BHC	ND	34.9	28.5	82		32.4	93		30-150	13		50	A
Lindane	ND	34.9	30.8	88		31.1	89		30-150	1		50	A
Alpha-BHC	ND	34.9	28.4	81		28.3	81		30-150	0		50	A
Beta-BHC	ND	34.9	34.0	98		29.4	85		30-150	15		50	A
Heptachlor	ND	34.9	34.5	99		33.0	95		30-150	4		50	A
Aldrin	ND	34.9	30.4	87		29.6	85		30-150	3		50	A
Heptachlor epoxide	7.46	34.9	39.4	92		38.3	89		30-150	3		50	A
Endrin	ND	34.9	36.9	106		36.6	105		30-150	1		50	A
Endrin aldehyde	ND	34.9	21.7	62		26.4	76		30-150	20		50	A
Endrin ketone	ND	34.9	28.3	81		33.8	97		30-150	18		50	A
Dieldrin	39.2	34.9	76.0	106		69.8	88		30-150	9		50	A
4,4'-DDE	ND	34.9	290	98		262	17	Q	30-150	10		50	A
4,4'-DDE	ND	34.9	269E	86		242E	9	Q	30-150	11		50	A
4,4'-DDD	ND	34.9	99.0	105		85.8	67		30-150	14		50	A
4,4'-DDT	164	34.9	198	98		187	66		30-150	6		50	A
4,4'-DDT	164	34.9	200E	89		183E	40		30-150	9		50	A
Endosulfan I	ND	34.9	41.2	118		40.6	117		30-150	1		50	A
Endosulfan II	ND	34.9	33.3	96		34.5	99		30-150	4		50	A
Endosulfan sulfate	ND	34.9	25.3	73		31.2	90		30-150	21		50	A
Methoxychlor	ND	34.9	36.5	105		39.0	112		30-150	7		50	A
cis-Chlordane	ND	34.9	72.9	133		87.7	176	Q	30-150	18		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG909285-4 WG909285-5 QC Sample: L1618706-06 Client ID: COMP 001												
trans-Chlordane	22.4	34.9	52.6	87		50.9	82		30-150	3		50 A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		79		30-150	B
Decachlorobiphenyl	94		93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		79		30-150	A
Decachlorobiphenyl	88		86		30-150	A

METALS

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-06

Date Collected: 06/17/16 00:00

Client ID: COMP 001

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.8		mg/kg	0.43	0.14	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Barium, Total	8.2		mg/kg	0.43	0.12	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Beryllium, Total	0.15	J	mg/kg	0.21	0.05	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Cadmium, Total	ND		mg/kg	0.43	0.03	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Chromium, Total	4.3		mg/kg	0.43	0.07	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Copper, Total	6.7		mg/kg	0.43	0.08	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Lead, Total	7.7		mg/kg	2.1	0.09	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Manganese, Total	56		mg/kg	0.43	0.10	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Mercury, Total	0.26		mg/kg	0.07	0.02	1	06/21/16 10:40	06/23/16 10:06	EPA 7471B	1,7471B	BV
Nickel, Total	1.9		mg/kg	1.1	0.17	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Selenium, Total	0.26	J	mg/kg	0.85	0.12	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Silver, Total	ND		mg/kg	0.43	0.09	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
Zinc, Total	5.9		mg/kg	2.1	0.30	1	06/23/16 08:46	06/23/16 12:32	EPA 3050B	1,6010C	FB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.1	J	mg/kg	0.86	0.86	1		06/23/16 12:32	NA	107,-	



Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-07

Date Collected: 06/17/16 00:00

Client ID: COMP 002

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.4		mg/kg	0.40	0.13	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Barium, Total	8.2		mg/kg	0.40	0.11	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Beryllium, Total	0.16	J	mg/kg	0.20	0.04	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Cadmium, Total	ND		mg/kg	0.40	0.03	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Chromium, Total	4.0		mg/kg	0.40	0.07	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Copper, Total	6.4		mg/kg	0.40	0.07	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Lead, Total	7.5		mg/kg	2.0	0.09	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Manganese, Total	58		mg/kg	0.40	0.10	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Mercury, Total	0.24		mg/kg	0.07	0.01	1	06/21/16 10:40	06/23/16 10:17	EPA 7471B	1,7471B	BV
Nickel, Total	1.8		mg/kg	1.0	0.16	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Selenium, Total	0.21	J	mg/kg	0.80	0.11	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Silver, Total	ND		mg/kg	0.40	0.08	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
Zinc, Total	6.0		mg/kg	2.0	0.28	1	06/23/16 08:46	06/23/16 13:04	EPA 3050B	1,6010C	FB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.0		mg/kg	0.82	0.82	1		06/23/16 13:04	NA	107,-	



Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-08

Date Collected: 06/17/16 00:00

Client ID: COMP DUP

Date Received: 06/17/16

Sample Location: HALF HOLLOW RD., DIX HILLS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.9		mg/kg	0.41	0.14	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Barium, Total	8.2		mg/kg	0.41	0.11	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Beryllium, Total	0.15	J	mg/kg	0.21	0.05	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Cadmium, Total	ND		mg/kg	0.41	0.03	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Chromium, Total	4.2		mg/kg	0.41	0.07	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Copper, Total	6.9		mg/kg	0.41	0.07	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Lead, Total	7.6		mg/kg	2.1	0.09	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Manganese, Total	54		mg/kg	0.41	0.10	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Mercury, Total	0.29		mg/kg	0.07	0.02	1	06/21/16 10:40	06/23/16 10:19	EPA 7471B	1,7471B	BV
Nickel, Total	1.8		mg/kg	1.0	0.16	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Selenium, Total	0.23	J	mg/kg	0.83	0.11	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Silver, Total	ND		mg/kg	0.41	0.08	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
Zinc, Total	5.8		mg/kg	2.1	0.29	1	06/23/16 08:46	06/23/16 13:08	EPA 3050B	1,6010C	FB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.2		mg/kg	0.83	0.83	1		06/23/16 13:08	NA	107,-	



Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-08 Batch: WG905987-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	06/21/16 10:40	06/23/16 10:02	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-08 Batch: WG906871-1										
Arsenic, Total	ND		mg/kg	0.40	0.13	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Barium, Total	ND		mg/kg	0.40	0.11	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Beryllium, Total	ND		mg/kg	0.20	0.04	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Cadmium, Total	ND		mg/kg	0.40	0.03	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Chromium, Total	ND		mg/kg	0.40	0.07	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Copper, Total	ND		mg/kg	0.40	0.07	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Lead, Total	ND		mg/kg	2.0	0.09	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Manganese, Total	ND		mg/kg	0.40	0.10	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Nickel, Total	ND		mg/kg	1.0	0.16	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Selenium, Total	ND		mg/kg	0.80	0.11	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Silver, Total	ND		mg/kg	0.40	0.08	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB
Zinc, Total	ND		mg/kg	2.0	0.28	1	06/23/16 08:46	06/23/16 11:44	1,6010C	FB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-08 Batch: WG905987-2 SRM Lot Number: D089-540								
Mercury, Total	94		-		57-143	-		
Total Metals - Mansfield Lab Associated sample(s): 06-08 Batch: WG906871-2 SRM Lot Number: D089-540								
Arsenic, Total	104		-		80-120	-		
Barium, Total	98		-		83-117	-		
Beryllium, Total	98		-		82-117	-		
Cadmium, Total	111		-		82-117	-		
Chromium, Total	102		-		79-121	-		
Copper, Total	103		-		80-119	-		
Lead, Total	117		-		81-119	-		
Manganese, Total	104		-		81-119	-		
Nickel, Total	112		-		82-117	-		
Selenium, Total	99		-		78-121	-		
Silver, Total	101		-		75-125	-		
Zinc, Total	109		-		80-119	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-08 QC Batch ID: WG905987-3 WG905987-4 QC Sample: L1618706-06 Client ID: COMP 001												
Mercury, Total	0.26	0.138	0.42	116		0.43	120		80-120	2		20
Total Metals - Mansfield Lab Associated sample(s): 06-08 QC Batch ID: WG906871-3 WG906871-4 QC Sample: L1618706-06 Client ID: COMP 001												
Arsenic, Total	4.8	2.48	7.8	121		7.8	119		75-125	0		20
Barium, Total	8.2	41.3	47	94		51	102		75-125	8		20
Beryllium, Total	0.15J	1.03	1.1	107		1.2	114		75-125	9		20
Cadmium, Total	ND	1.05	1.0	95		1.1	102		75-125	10		20
Chromium, Total	4.3	4.13	7.7	82		8.1	90		75-125	5		20
Copper, Total	6.7	5.16	12	103		12	101		75-125	0		20
Lead, Total	7.7	10.5	17	88		18	96		75-125	6		20
Manganese, Total	56.	10.3	64	78		64	76		75-125	0		20
Nickel, Total	1.9	10.3	11	88		12	96		75-125	9		20
Selenium, Total	0.26J	2.48	2.5	101		2.7	107		75-125	8		20
Silver, Total	ND	6.19	5.8	94		6.3	100		75-125	8		20
Zinc, Total	5.9	10.3	15	88		16	96		75-125	6		20

INORGANICS & MISCELLANEOUS

Project Name: OAK HILL ESTATES**Project Number:** CUE1601**Lab Number:** L1618706**Report Date:** 07/05/16**SAMPLE RESULTS****Lab ID:** L1618706-01**Client ID:** GRAB 001**Sample Location:** HALF HOLLOW RD., DIX HILLS**Matrix:** Soil**Date Collected:** 06/17/16 10:35**Date Received:** 06/17/16**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI



Project Name: OAK HILL ESTATES**Project Number:** CUE1601**Lab Number:** L1618706**Report Date:** 07/05/16**SAMPLE RESULTS****Lab ID:** L1618706-02**Client ID:** GRAB 002**Sample Location:** HALF HOLLOW RD., DIX HILLS**Matrix:** Soil**Date Collected:** 06/17/16 00:00**Date Received:** 06/17/16**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.3		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI



Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-03

Client ID: GRAB 003

Sample Location: HALF HOLLOW RD., DIX HILLS

Matrix: Soil

Date Collected: 06/17/16 00:00

Date Received: 06/17/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.7		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI



Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-04

Client ID: GRAB 004

Sample Location: HALF HOLLOW RD., DIX HILLS

Matrix: Soil

Date Collected: 06/17/16 00:00

Date Received: 06/17/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.6		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI



Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-05

Client ID: GRAB DUP

Sample Location: HALF HOLLOW RD., DIX HILLS

Matrix: Soil

Date Collected: 06/17/16 00:00

Date Received: 06/17/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.0		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI



Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-06

Client ID: COMP 001

Sample Location: HALF HOLLOW RD., DIX HILLS

Matrix: Soil

Date Collected: 06/17/16 00:00

Date Received: 06/17/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.17	1	06/18/16 12:20	06/20/16 14:16	1,9010C/9012B	JO
Chromium, Hexavalent	0.20	J	mg/kg	0.86	0.17	1	06/20/16 14:55	06/21/16 09:19	1,7196A	AL



Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-07

Client ID: COMP 002

Sample Location: HALF HOLLOW RD., DIX HILLS

Matrix: Soil

Date Collected: 06/17/16 00:00

Date Received: 06/17/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.0		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.16	1	06/18/16 12:20	06/20/16 14:19	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.82	0.16	1	06/20/16 14:55	06/21/16 09:21	1,7196A	AL



Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

SAMPLE RESULTS

Lab ID: L1618706-08

Client ID: COMP DUP

Sample Location: HALF HOLLOW RD., DIX HILLS

Matrix: Soil

Date Collected: 06/17/16 00:00

Date Received: 06/17/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.6		%	0.100	NA	1	-	06/20/16 10:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.16	1	06/18/16 12:20	06/20/16 14:19	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.83	0.16	1	06/20/16 14:55	06/21/16 09:24	1,7196A	AL



Project Name: OAK HILL ESTATES**Lab Number:** L1618706**Project Number:** CUE1601**Report Date:** 07/05/16**Method Blank Analysis**
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06-08 Batch: WG905391-1										
Cyanide, Total	ND		mg/kg	0.92	0.15	1	06/18/16 12:20	06/20/16 14:06	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06-08 Batch: WG905774-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	06/20/16 14:55	06/21/16 09:04	1,7196A	AL

Lab Control Sample Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-08 Batch: WG905391-2 WG905391-3								
Cyanide, Total	15	Q	132	Q	80-120	158	Q	35
General Chemistry - Westborough Lab Associated sample(s): 06-08 Batch: WG905774-2								
Chromium, Hexavalent	97		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: OAK HILL ESTATES

Project Number: CUE1601

Lab Number: L1618706

Report Date: 07/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG905391-4 WG905391-5 QC Sample: L1618706-06 Client ID: COMP 001												
Cyanide, Total	ND	10	10	99		9.7	97		65-135	3		35
General Chemistry - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG905774-4 WG905774-5 QC Sample: L1618706-06 Client ID: COMP 001												
Chromium, Hexavalent	0.20J	1070	960	90		860	74	Q	75-125	11		20

Lab Duplicate Analysis Batch Quality Control

Project Name: OAK HILL ESTATES
Project Number: CUE1601

Lab Number: L1618706
Report Date: 07/05/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG905688-1 QC Sample: L1618706-01 Client ID: GRAB 001						
Solids, Total	94.5	94.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG905774-8 QC Sample: L1618706-06 Client ID: COMP 001						
Chromium, Hexavalent	0.20J	ND	mg/kg	NC		20

Project Name: OAK HILL ESTATES

Lab Number: L1618706

Project Number: CUE1601

Report Date: 07/05/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 18-JUN-16 07:16

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618706-01A	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-01B	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-01C	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-01D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1618706-01X	Vial MeOH preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-01Y	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-01Z	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-02A	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-02B	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-02C	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-02D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1618706-02X	Vial MeOH preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-02Y	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-02Z	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-03A	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-03B	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-03C	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-03D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1618706-03X	Vial MeOH preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-03Y	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-03Z	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-04A	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-04B	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-04C	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-04D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1618706-04X	Vial MeOH preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-04Y	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1618706-04Z	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-05A	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-05B	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-05C	5 gram Encore Sampler	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(2)
L1618706-05D	Plastic 2oz unpreserved for TS	A	N/A	2.4	Y	Absent	TS(7)
L1618706-05X	Vial MeOH preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-05Y	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-05Z	Vial Water preserved split	A	N/A	2.4	Y	Absent	NYTCL-8260HLW(14)
L1618706-06A	Glass 500ml/16oz unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1618706-06B	Glass 500ml/16oz unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),MS/MSD(),NYTCL-8082(14),HEXCR-7196(30)
L1618706-06C	Glass 250ml unpreserved split	A	N/A	2.4	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1618706-07A	Glass 500ml/16oz unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1618706-07B	Glass 60ml unpreserved split	A	N/A	2.4	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1618706-08A	Glass 500ml/16oz unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1618706-08B	Glass 60ml unpreserved split	A	N/A	2.4	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days



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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

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Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

APPENDIX F
Site-Wide Inspection Form

Site Inspection Form

CUBESMART (FORMER SAFEGUARD) SELF STORAGE FACILITY

1170 ATLANTIC AVENUE

BALDWIN, NEW YORK

Date / Time: October 12, 2016

Inspector (name/organization): John Eichler, P.W. Grosser Consulting, Inc.

Detail the condition of monitoring wells – Confirm well integrity; note damage to well casing, j-plug, cover; note missing bolts: The monitoring wells are in good condition with no damage.

Detail the condition of ground cover and evidence of ground intrusive activity:

The area of the bulkhead replacement is substantially stabilized with grass. No other evidence of ground-intrusive activities was observed.

Are any repairs and/or maintenance needed at this time? If so, conduct another inspection following repairs.

No repairs or maintenance is needed at this time.

John Eichler

Name

Signature

November 5, 2016

Date