PERIODIC REVIEW REPORT

Submitted To:

New York State Department of Environmental Conservation
Division of Environmental Remediation
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Prepared For:

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PWGC Project Number: PEN1101

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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 Glenwood Realty of Roslyn Heights, New York, to document the groundwater and indoor air sampling events which occurred at the property located at 1 Shore Road, Glenwood Landing, 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) Class IV inactive hazardous waste disposal site identified as I.D. No. 130034.

A former dry cleaning business, known as Penetrex Processing, Inc. (Penetrex), is reported to have operated at the site for several years prior to abandoning the facility in 1984. During its operation at the site, Penetrex is reported to have discharged dry cleaning chemicals to an on-site sanitary system and a storm water leaching pool at the property.

PWGC began a Remedial Investigation (RI) in November 2001 at the site to obtain information necessary to determine the need for a remediation. The RI concluded that residual levels of volatile organic compounds (VOCs) in groundwater remained in the area of the eastern portion of the parking lot. The VOCs were likely due to former discharges of PCE to sanitary leaching pool DW-5 and to storm water leaching pool DW-1 (see **Figure 2**). An Interim Remedial Measure (IRM) included the injection of a chemical oxidant solution (potassium permanganate) to oxidize VOCs in groundwater. Post-IRM groundwater sampling at the subject site indicated that VOCs in groundwater were substantially reduced as a result of the IRM.

In order to mitigate sub-slab VOC vapors detected beneath the two site buildings, sub-slab depressurization systems (SSDS) were installed. Indoor air sampling results indicate that VOC vapors are not intruding to the interior spaces of these buildings and, therefore, the SSDS are functioning as intended.

Activities performed at the site during this Review Period included monitoring well groundwater sampling in April and October 2017, and indoor air sampling in April 2017. The analytical results of the groundwater sampling indicate residual concentrations of VOCs which are generally lower than detected in previous sampling rounds. The analytical results of the indoor air sampling indicate that sub-slab VOC vapors, if present, are not intruding into the interior spaces of the subject buildings. These results confirm that the SSDS are functioning as intended.

Based on the results obtained during this Review Period, residual chlorinated VOC concentrations in groundwater have not met requirements for the discontinuation of site management. However, based on the success of the remedial effort, PWGC recommends that the groundwater sampling frequency be reduced from semi-annual to annual sampling.

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

1.0 SITE OVERVIEW

The subject site consists of an approximately one-acre parcel located on the east side of Shore Road in the Hamlet of Glenwood Landing, Town of North Hempstead, Nassau County, New York. A site vicinity map is included as **Figure 1**. The property is improved with a two-story steel and masonry industrial building with no basement, a three-story wood-frame house with a basement, asphalt parking, communications tower and other ancillary improvements. A site plan is included as **Figure 2**.

The property is bounded to the west by Shore Road and to the east by West Street. The area to the east of West Street is developed with residential houses. The site is generally located north of Scudders Lane and is situated near and adjoining several major oil storage facilities, coastal terminals, and a municipal power station near Hempstead Harbor. Glenwood Oil Terminal Corp. is located northwest, diagonally across the property.
The RI determined that concentrations of several VOCs, including PCE and TCE, exceeded NYSDEC Ambient Water Quality Standards in the Site's groundwater which is apparently the result of the improper discharge of dry cleaning chemicals to sanitary leaching pool DW-5 and/or storm water drywell DW-1 located in the eastern portion of the Site, and that these VOCs had created a potential soil vapor intrusion condition in the Site's buildings (see **Figure 2**).

Soil vapor intrusion sampling was conducted to evaluate the potential for soil vapor intrusion into on-Site structures and to determine if there was substantial soil vapor contamination from the disposal of hazardous wastes. Sub-slab vapor samples were collected from beneath the on-site structures, which revealed soil vapor contamination.

Indoor air samples were collected from the on-site structures. Detected concentrations of VOCs were within the Air Guideline Values specified in the Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006.

Due to the presence of elevated sub-slab VOCs, two SSDS are in operation at the Site to mitigate the potential for exposure. One SSDS was installed in the residential building in April 2007 and one SSDS was installed in the commercial building in June 2007. Both SSDS are active single loop systems with perforated piping located beneath the concrete slabs of the buildings. Riser pipes connect the systems to fans which remove sub-slab vapors through the discharge vents above the rooflines of the respective buildings, and create a negative pressure beneath the slabs. The locations of the SSDS are indicated on the as-built drawings and are included in **Appendix B**. The fans run continuously to sustain a negative pressure beneath the slabs and mitigate the potential for vapor intrusion into the buildings. Communication tests performed for each system confirmed the effectiveness of the systems, that a negative pressure was created to remove vapors from beneath the slabs of the structures. Based on the tests, the operation of the SSDS effectively mitigates the potential for soil vapor intrusion.

The Interim Remedial Measure (IRM) to address subsurface groundwater contamination consisted of the installation of five (5) permanent monitoring wells (a total of 12 permanent monitoring wells are present at the site; see **Figure 2**) and the injection of a chemical oxidant solution, potassium permanganate, in the delineated area of contamination in the eastern portion of the site's parking area. The intent of the chemical oxidant injection, which occurred in December 2008 and January 2009, was to significantly reduce the mass of

contamination in the subsurface through the oxidation of VOCs in the high concentration area. Details of the IRM are included in the revised *IRM Report,* submitted by PWGC in August 2009 under separate cover.

Three (3) of the five (5) new wells (MW-8, MW-9, and MW-10) are screened at the water table to monitor the most impacted groundwater. Two (2) of the five (5) new monitoring wells (MW-8D and MW-9D) are screened at a 10-foot interval between 40 and 50 feet bgs to monitor IRM effectiveness at a greater depth. The previously-existing monitoring wells (MW-1 through MW-7) are screened at the water table. Monitoring well MW-6 is located off-property across Shore Road to the west of the subject property (see **Figure 2**).

A baseline round of groundwater sampling was performed on September 18, 2008 to determine VOC concentrations prior to the injection of the chemical oxidant, and the initial post-injection round of sampling was performed on April 6, 2009. The analytical results were compared to NYSDEC Groundwater Standards and to each other, to determine the effectiveness of the chemical injection. The results indicated a substantial reduction in the mass of contamination at the subject site. This was best illustrated in the results from monitoring well MW-8, where the concentration of total VOCs decreased from 7,758 µg/L to 1,462 µg/L in the initial post-injection sampling, an 81% reduction in the concentration of total VOCs. VOC concentrations in samples collected from the other monitoring wells in the impacted area were significantly lower than in MW-8.

A site-specific SMP was prepared by PWGC and approved by the NYSDEC in March 2015. The SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the Site. The requirements include operation of two SSDS, maintenance of a ground cover system, semi-annual groundwater sampling, indoor air sampling, and an annual site-wide inspection to confirm that ICs and ECs are properly implemented and functioning as intended.

The SMP specifies that on a semi-annual basis the groundwater data will be evaluated relative to the need for additional ISCO injections. Specifically, the data will be reviewed and evaluated for evidence that VOC levels have stabilized, or nearly stabilized (i.e., reached asymptotic levels). If stabilized levels are greater than five times the respective standard (e.g., >25 µg/L for PCE, using the PCE standard of 5 µg/L), or it appears that the levels will stabilize at or above this level, then an additional round of ISCO injections will be planned. Alternatively, if stabilized PCE levels are below 25 µg/L, or it appears that the levels will stabilize below 25 µg/L, then a petition may be made to NYSDEC to forego additional ISCO injections. If individual monitoring wells exhibit contaminant concentrations below the NYSDEC groundwater standards for two consecutive rounds, a petition may be made to remove them from future sampling events. The rationale for recommending the discontinuation of monitoring will depend on whether goals are achieved at all sampling points for two consecutive monitoring rounds. Any modifications or discontinuance of these monitoring activities will only occur after approval of such changes by the NYSDEC.

The SMP also indicates that the active SSDS will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSDS are no longer required, a proposal to discontinue the SSDS will be submitted by the property owner to the NYSDEC and NYSDOH.

2.0 SEMI-ANNUAL GROUNDWATER SAMPLING – APRIL AND OCTOBER 2017

Semi-annual groundwater sampling was performed on April 27 and October 31, 2017 to monitor contaminant trends at the subject site in accordance with the site-specific SMP.

During both sampling events, eleven of the twelve monitoring wells were sampled. Monitoring well MW-1 was blocked by debris.

During both 2017 sampling events, the monitoring wells were sampled utilizing a low stress (low flow) method to collect representative samples while producing a minimal amount of purge water. Sampling was performed with a submersible pump with an adjustable flow rate. Purging of each well continued until turbidity was substantially reduced. Portable field instruments were used to collect measurements. Non-dedicated sampling equipment was decontaminated between monitoring wells with a non-phosphate solution. At locations where turbidity did not decrease to 50 NTUs, the well was considered purged upon the stabilization of other parameters such as pH, conductivity, dissolved oxygen, temperature and oxidation-reduction potential (ORP). Samples were collected directly from the polyethylene tubing into laboratory-supplied glassware upon stabilization of field parameters. Monitoring well sampling logs are included in **Appendix C.** Purge water was containerized in 55-gallon drums and staged on-site pending off-site disposal.

Depth to water and depth to bottom measurements were collected to determine groundwater flow direction. As with previous sampling events, a steep gradient toward Hempstead Harbor was calculated. A groundwater contour map is included as **Figure 3**.

2.1 Groundwater Laboratory Analysis

Collected groundwater samples were placed in a cooler packed with ice for transport to Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory for analysis of VOCs by EPA Method 8260, under proper chain of custody protocols. Laboratory Data Reports are included in **Appendix D**.

2.2 Quality Assurance / Quality Control

QA/QC for the groundwater sampling events 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 D**) that the samples were received in accordance with the chain of custody and no significant deviations were encountered during the preparation or analysis.

The April and October 2017 semi-annual sampling results were submitted to Stone Environmental, Inc. (Stone) of Montpelier, Vermont for a third-party quality assurance evaluation. Two monitoring well samples were 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 Reports are included as **Appendix E.**

2.3 Groundwater Analytical Results

Analytical results of the October 2017 semi-annual sampling event were compared to NYSDEC Groundwater Standards, and to the results of the baseline sampling event and the previous ten post-injection sampling events 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 D.**

Overall, the analytical results indicate that VOC concentrations have decreased since the April 2017 sampling event.

PCE was detected at MW-2 (3 µg/L) below the Groundwater Standard. No other VOCs were detected. MW-2 is located down-gradient of the area of residual impact. VOC concentrations at MW-2 have historically remained near Groundwater Standards.

At MW-3, located directly down-gradient of the impacted area, VOCs, including PCE (12 µg/L), cis-1,2-DCE (61 µg/L), and vinyl chloride (10 µg/L) were detected above respective Groundwater Standards. TCE (4 µg/L) was detected below the Groundwater Standard. The detection of cis-1,2-DCE at MW-3 indicates the degradation of PCE and TCE.

VOCs were not detected in MW-4, located to the south of the residually-impacted area.

Detected concentrations of VOCs in MW-5 remained below Groundwater Standards. These wells are located to the south of the residually-impacted area.

PCE was detected in off-site well MW-6 (2 µg/L) below the Groundwater Standard. The highest concentration of PCE was detected in April 2011 at 15 µg/L.

The PCE concentration at MW-7, located along the perimeter of the impacted area, has decreased to 98 µg/L. TCE was detected at 1 µg/L. No other VOCs were detected at MW-7.

PCE was detected in MW-8 (2 µg/L) and no other VOCs were detected. This represents the first sampling in which VOC concentrations at MW-8 were within Groundwater Standards. The pre-IRM concentration at MW-8 was 7,700 µg/L, detected in September 2008.

VOCs in MW-9, located down-gradient of the center of impact, have decreased since the previous sampling event. PCE (130 µg/L) remained above the Groundwater Standard.

PCE (20 µg/L) and TCE (0.93 µg/L) were detected in MW-10. PCE has ranged between 10 µg/L and 140 µg/L in previous sampling events.

PCE was detected in deep well MW-8D at 2.9 µg/L. No other VOCs were detected at MW-8D. The PCE concentration in deep well MW-9D was 1.2 µg/L. No other VOCs were detected in MW-9D. The deep well results indicate that groundwater beneath the historical area of concern has been remediated.

The total mass of VOC impact at the site appears to have been substantially reduced by the chemical injection as evidenced by the analytical results, and as illustrated by the change in the total VOC contours between **Figure 4** and **Figure 5**.

3.0 ANNUAL INDOOR AIR SAMPLING

A total of six (6) ambient air samples were collected by PWGC on April 27, 2017 which included 5 indoor air samples (1 sample from each of the four main ground floor spaces in the commercial building and one from the basement of the house) and 1 outdoor air sample. The sampling was performed in accordance with the site-specific SMP. Sampling locations are indicated on **Figure 6**.

Sampling was conducted in accordance with the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in New York State (NYSDOH Vapor Intrusion Guidance). Samples were collected into 6-liter Summa® vacuum canisters fitted with 1-hour flow controllers. The canisters were certified clean by the laboratory. The samples were submitted to Alpha Analytical Laboratories, a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory, for analysis of volatile organic compounds (VOCs) by USEPA Method TO-15-SIM.

In accordance with the NYSDOH Vapor Intrusion Guidance, the 6 samples were collected concurrently. Each of the indoor air samples was collected from a height representing the breathing zone (between 3 and 5 feet above the floor). Sampling personnel avoided lingering in the sampling areas.

One outdoor air sample was collected approximately 10 feet to the southwest of the commercial building to determine site background concentrations which contribute to indoor air quality. The sample was collected from a height of approximately three feet above the ground in an upwind direction from the building. The sample was collected concurrently with the indoor air samples.

3.1 Indoor Air Analytical Results

The indoor air sampling results of this round were compared to the results of four previous indoor air sampling rounds, two of which were performed prior to the installation of the site's two SSDS and chemical injection remediation. The sub-slab vapor contaminants of concern at the subject site are chlorinated VOCs. The sampling results are included on the attached **Table 3**. Historical indoor air results are included on **Table 4**. PCE was detected in the fitness center, the warehouse, the office area, and the house basement. However, the detected concentrations were substantially lower than the concentrations detected prior to vapor mitigation and groundwater remediation. The detected PCE concentrations are also below the NYSDOH Air Guidance Value of 30 µg/m^3.

TCE was detected in the office area and the house basement at concentrations well below the NYSDOH Air Guidance Value of 5 µg/m^3.

Carbon tetrachloride was detected in each of the samples. However, carbon tetrachloride was detected in the outdoor air sample at a similar concentration, indicating that the presence of carbon tetrachloride is a result of background air quality, rather than an on-site source.

Other chlorinated VOCs, including 1,1,1-Trichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, and vinyl chloride, were not detected.

The laboratory analytical report is included in **Appendix D**.

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 annual basis. During these inspections, an inspection form is completed (**Appendix F**). The form is used to compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- 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 November 1, 2017 by John Eichler, a representative of PWGC. The components of the SSDS were visually inspected for signs of damage such as cracks in piping, fans, and alarms. The SSDS were deactivated to confirm that the low-pressure alarms were active. Vacuum gauge readings were recorded to confirm that the SSDS were active. The inspection indicated that the SSDS were functioning properly.

The soil cover system was observed during the site-wide inspection. There was no evidence of site development or ground-intrusive activities that would disturb the soil cover system.

The groundwater monitoring system was inspected for signs of damage. The monitoring wells appeared to be in good condition with plugs and protective covers. Based upon the findings of the site-wide inspection, no corrective actions are recommended at this time.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Indoor Air

PWGC collected five indoor air samples and one outdoor air sample at the subject site to determine if the subject site's two SSDS are effectively mitigating potential sub-slab chlorinated VOC vapors. The indoor air results of the sampling performed after the installation of the SSDS were compared to the indoor air results of the sampling performed before the installation of the SSDS. Chlorinated VOCs have decreased substantially in the indoor air since the installation of the SSDS. The results indicate that intrusion of sub-slab VOCs into the interior spaces of the buildings is mitigated by the slab and the SSDS.

Based on the presence of residual VOCs detected in the groundwater, PWGC recommends continued operation of the SSDS to mitigate potential vapor intrusion and annual indoor air sampling. The next indoor air sampling event will occur in April 2018.

Groundwater

The objective of the IRM was to substantially reduce the mass of VOC impact located at the subject site. The area of impact had been delineated and monitored during the remedial investigation to facilitate a focused remedial practice to accomplish this objective. The injection of the chemical oxidant, potassium permanganate, has been successful at substantially reducing VOCs, including PCE, TCE and cis-1,2-DCE, in the center of the area of impact (monitoring well MW-8).

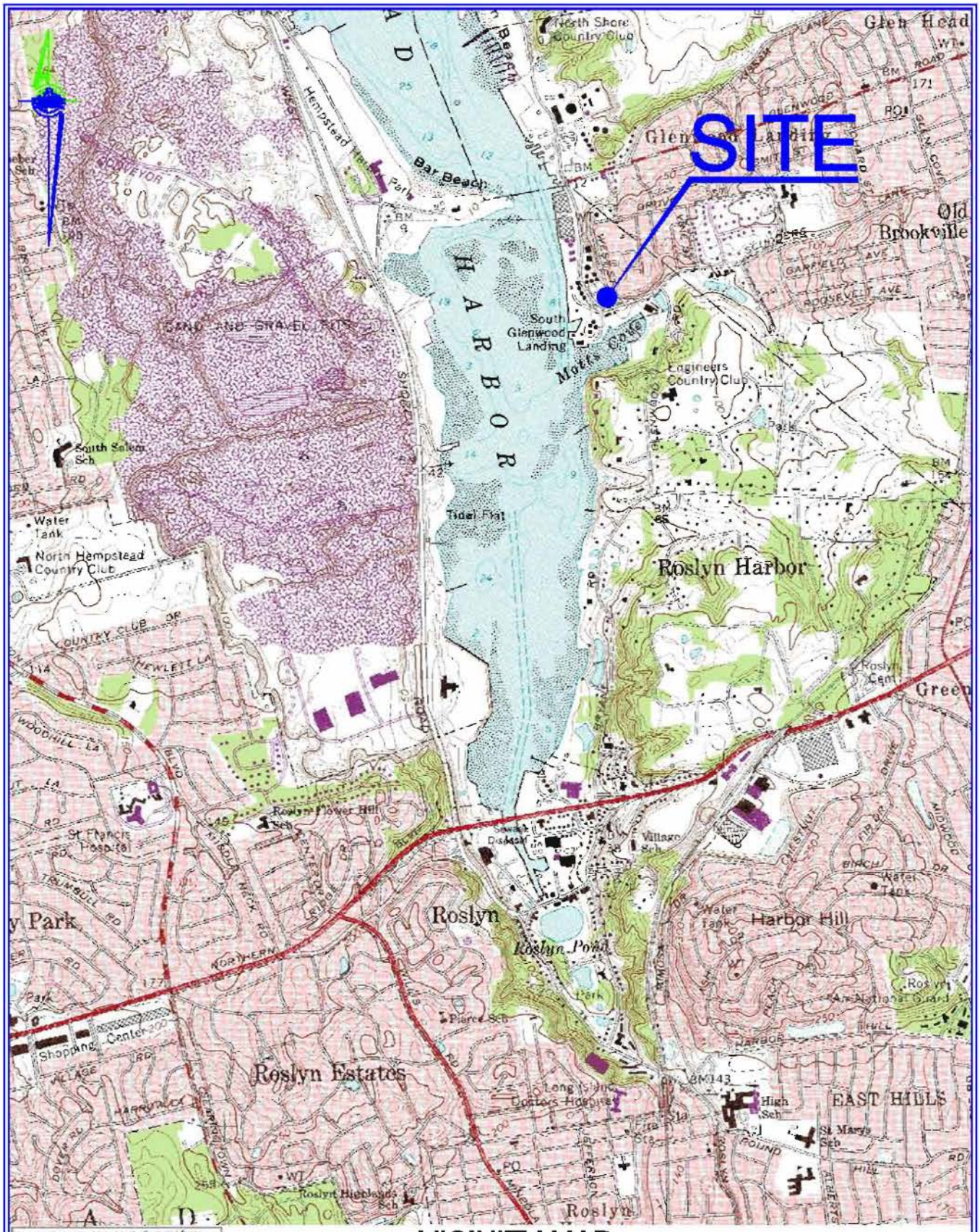
Historical analytical results indicate that down-gradient monitoring wells MW-2 through MW-6 have been outside the central area of impact, indicating that impacted groundwater has not substantially migrated toward the property boundary. Given the steep hydraulic gradient at the site, down-gradient VOC concentrations might be expected to be higher than those detected. This lack of migration is likely related to the adsorption of the residual VOCs to the soils in the former source area.

Up-gradient monitoring well MW-1 was obstructed by a substantial quantity of debris. The debris will be removed and MW-1 will be included on subsequent sampling rounds.

Based on the length of time since the last injection, it is likely that the potassium permanganate 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.

Based on the success of the remedial effort and the continued decreasing trend in VOCs in groundwater, PWGC recommends that the frequency of groundwater sampling be decreased from semi-annual to annual sampling. The next event will occur in April 2018.

FIGURES



VICINITY MAP

SCALE: 1:24,000

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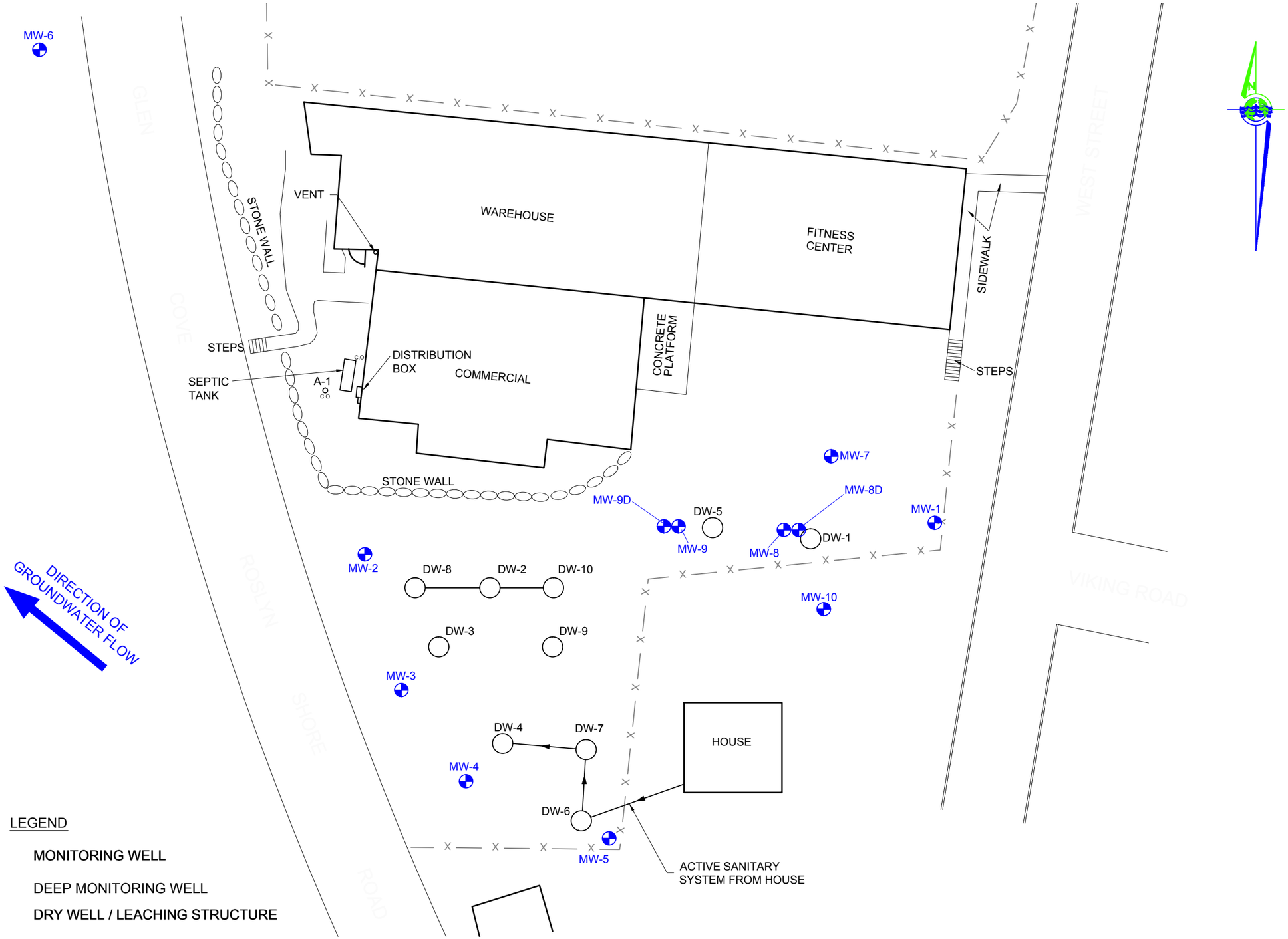
1 SHORE ROAD
GLENWOOD LANDING, NY

PEN0001	1
DE	
PWG	
LLG	5/27/09



SITE PLAN

SCALE: 1" = 30'

BASE MAP PROVIDED BY:
YEC, INC.
SURVEY MAP: JULY 10, 1992

0 30 60

SCALE: 1" = 30'

J:\Projects M-R\Pen - Penetrex\CADD\2009 CAD\Fig 2.dwg

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REVISION	DATE	INITIAL	COMMENTS

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PROJECT:	PEN0001	APPROVED BY:	PWG
DESIGNED BY:	JL	DATE:	1/10/13
DRAWN BY:	LLG	SCALE:	AS SHOWN

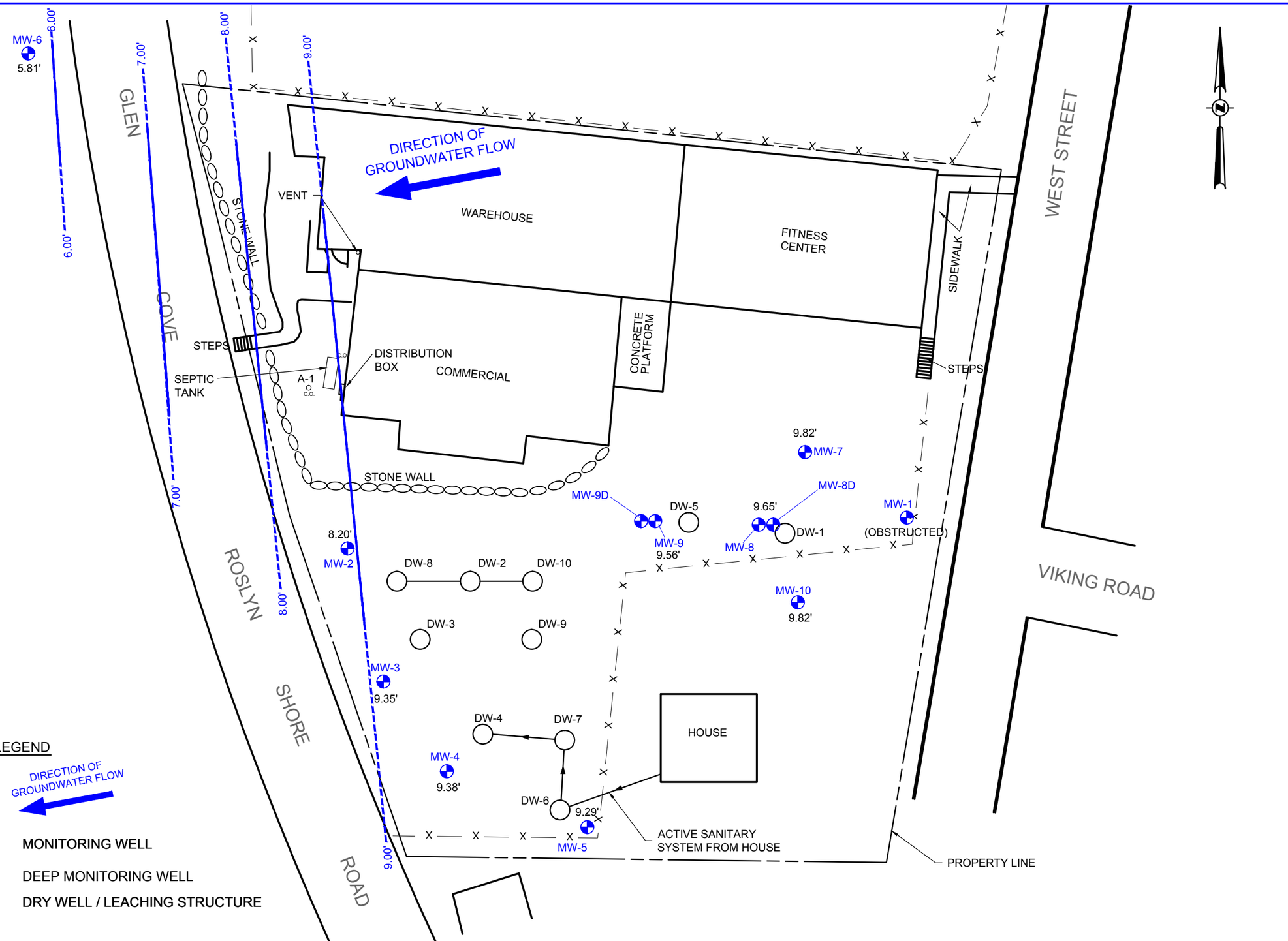
SHEET TITLE

SITE PLAN

FORMER PENETREX PROSESSING NYSDEC I.D. No. 130034

FIGURE NO 2

SHEET - OF -



LEGEND

DIRECTION OF GROUNDWATER FLOW

MW-8 — MONITORING WELL

MW-9D — DEEP MONITORING WELL

DRY WELL / LEACHING STRUCTURE

BASE MAP PROVIDED BY:
YEC, INC.
SURVEY MAP: JULY 10, 1992

SITE PLAN WITH GROUNDWATER CONTOURS

SCALE: 1" = 30'

0 30 60

SCALE: 1" = 30'

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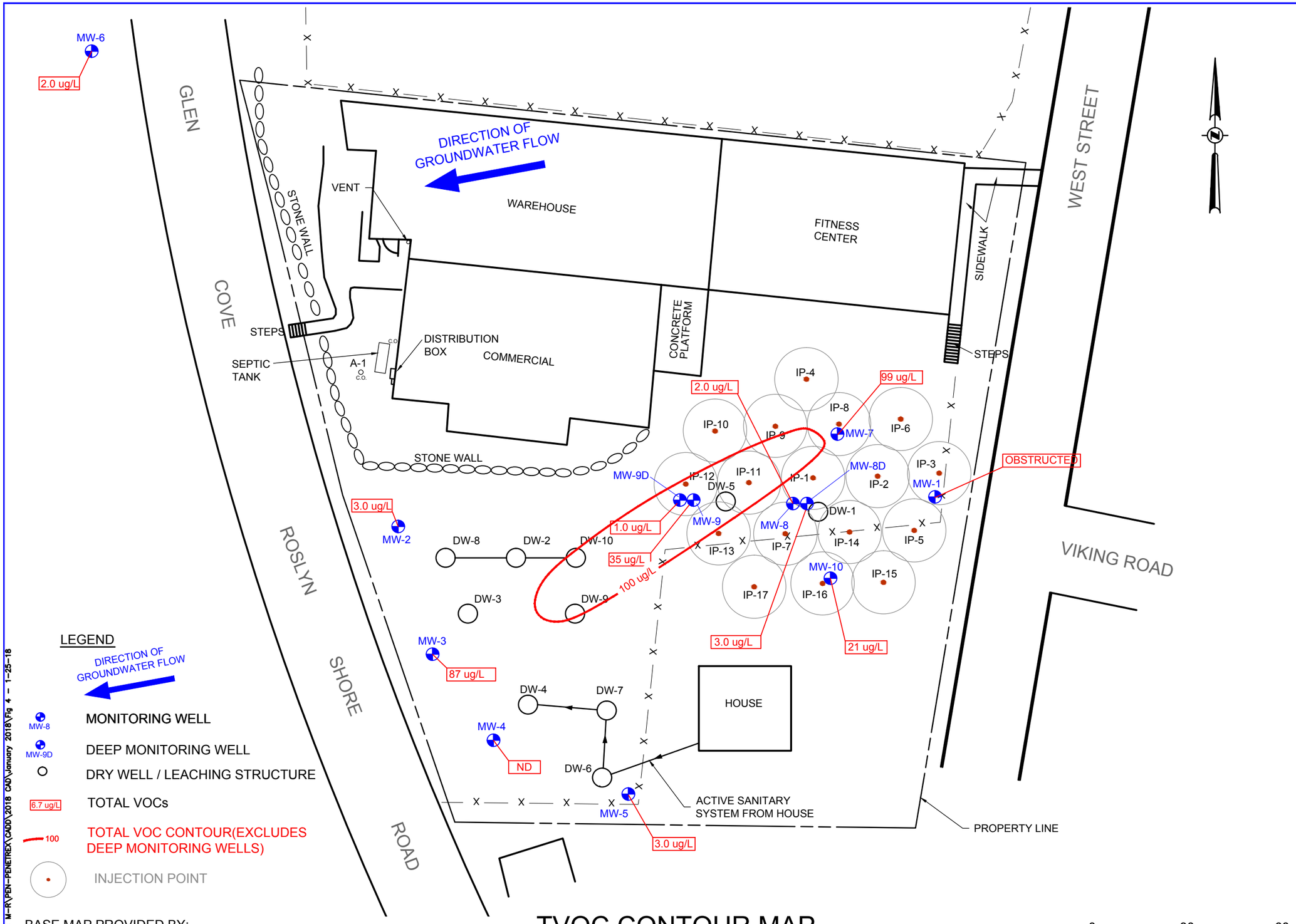
PROJECT:	PEN1101	APPROVED BY:	PKB
DESIGNED BY:	JE	DATE:	1/25/18
DRAWN BY:	JML	SCALE:	AS SHOWN

SHEET TITLE

SITE PLAN
GROUNDWATER
CONTOURS
OCTOBER 2017
FORMER PENETREX
PROSESSING NYSDEC
I.D. No. 130034

FIGURE NO
3

SHEET - OF -



BASE MAP PROVIDED BY:
YEC, INC.
SURVEY MAP: JULY 10, 1992

TVOC CONTOUR MAP

SCALE: 1" = 30'

J:\Projects M-R\PEN-PENETREX\CADD\2018 CAD\January 2018\Fig 4 - 1-25-18

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DESIGNED BY:	JE	DATE:	1/25/18
DRAWN BY:	JML	SCALE:	AS SHOWN

SHEET TITLE

CONTAMINANT CONTOURS OCTOBER 2017

FORMER PENETREX PROSESSING NYSDEC I.D. No. 130034

FIGURE NO
4

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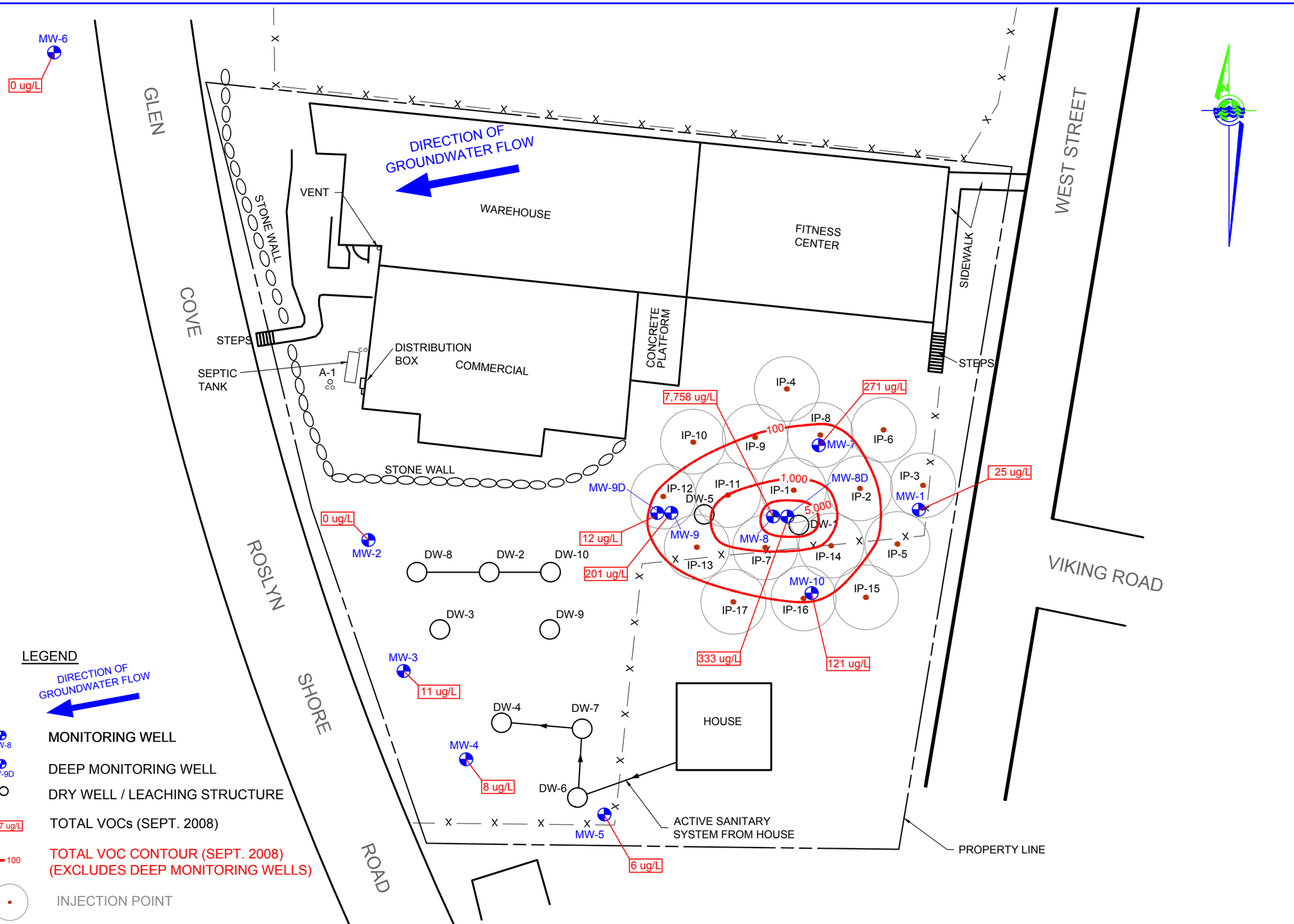

LEGEND

- DIRECTION OF GROUNDWATER FLOW
- MW-8 — MONITORING WELL
- MW-9D — DEEP MONITORING WELL
- DRY WELL / LEACHING STRUCTURE
- 6.7 ug/L — TOTAL VOCs (SEPT. 2008)
- 100 — TOTAL VOC CONTOUR (SEPT. 2008) (EXCLUDES DEEP MONITORING WELLS)
- INJECTION POINT

BASE MAP PROVIDED BY:
YEC, INC.
SURVEY MAP: JULY 10, 1992

BASELINE TOTAL VOC CONTOURS SEPT. 2008

SCALE: 1" = 30'

0 30 60

SCALE: 1" = 30'

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REVISION	DATE	INITIAL	COMMENTS

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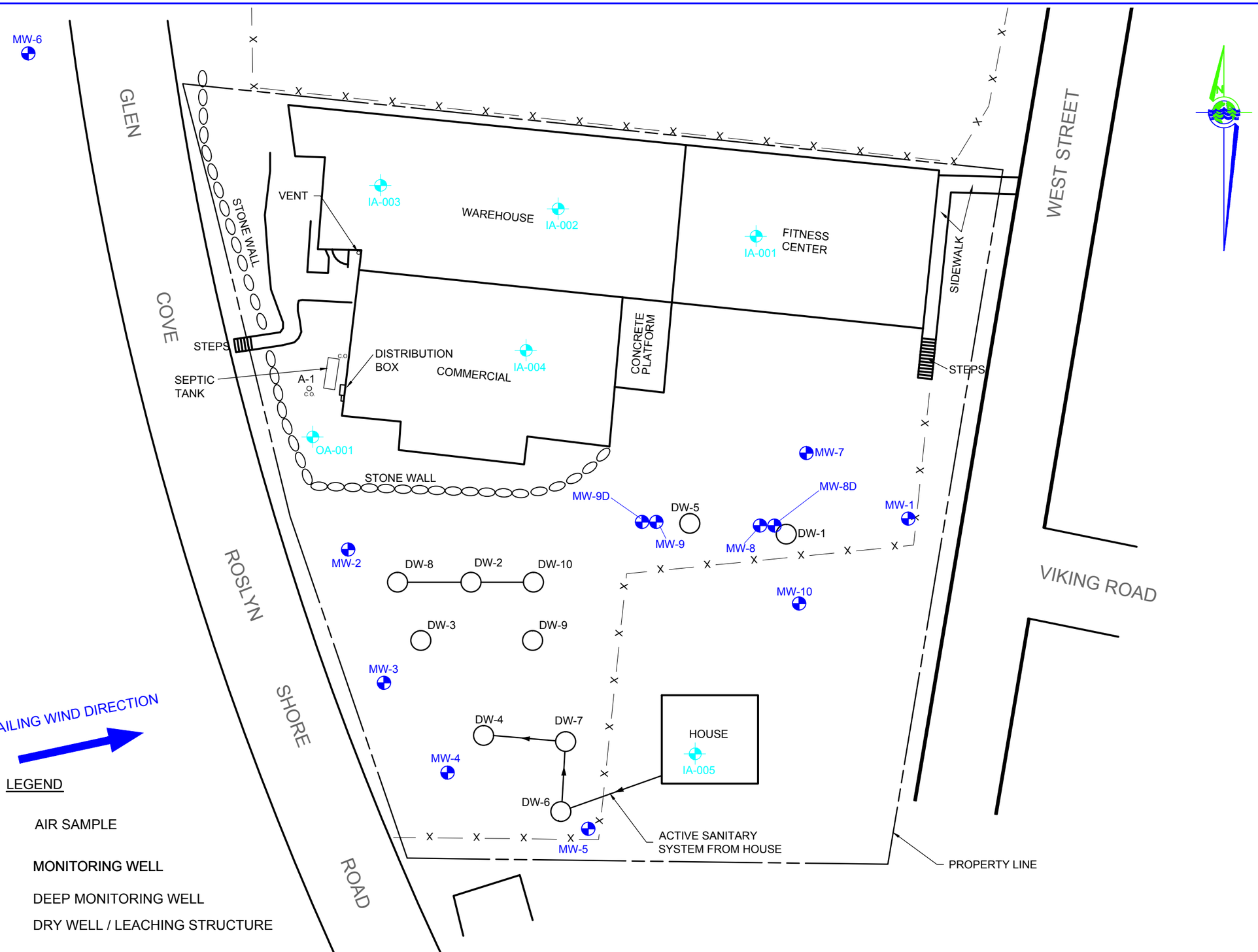
DESIGNED BY:	JL	DATE:	2/15/17
DRAWN BY:	LLG	SCALE:	AS SHOWN

SHEET TITLE

SITE PLAN
GROUNDWATER
CONTOURS
OCTOBER 2016
FORMER PENETREX
PROSESSING NYSDEC
I.D. No. 130034

FIGURE NO 5

SHEET - OF -



PREVAILING WIND DIRECTION

LEGEND

- IA-002 — AIR SAMPLE
- MW-8 — MONITORING WELL
- MW-9D — DEEP MONITORING WELL
- DRY WELL / LEACHING STRUCTURE

BASE MAP PROVIDED BY:
YEC, INC.
SURVEY MAP: JULY 10, 1992

CONTAMINANT CONTOURS

SCALE: 1" = 30'

0 30 60

SCALE: 1" = 30'

J:\Projects M-R\PEN-PENETREX\CADD\2017 CAD\February 2017\Fig 6 - 2-15-17

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DRAWINGS PREPARED FOR

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION

PROJECT:	PEN0001	APPROVED BY:	PKB
DESIGNED BY:	JL	DATE:	2/15/17
DRAWN BY:	LLG	SCALE:	AS SHOWN

SHEET TITLE

AIR SAMPLING

FORMER PENETREX PROSESSING NYSDEC I.D. No. 130034

FIGURE NO 6

SHEET - OF -

TABLES

TABLE 1
April 2017 - Groundwater Analytical Results - VOCs
1 Shore Road, Glenwood Landing, New York

Sample ID Sampling Date Lab Sample ID	NYSDEC Groundwater Standards [1]	MW-2 10/31/2017 L1739725-07	MW-3 10/31/2017 L1739725-10	MW-4 10/31/2017 L1739725-08	MW-5 10/31/2017 L1739725-09	MW-6 10/31/2017 L1739725-11	MW-7 10/30/2017 L1739725-01	MW-8 10/30/2017 L1739725-02	MW-8D 10/30/2017 L1739725-03	MW-9 10/31/2017 L1739725-05	MW-9D 10/31/2017 L1739725-06	MW-10 10/31/2017 L1739725-04
Volatile Organic Compounds by 8260 - µg/L												
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dibromoethane	0.0006	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,2-Dichloroethene, Total	NS	2.5 U	62 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	1.2 J
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,3,5-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,3-Dichloropropene, Total	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
1,4-Dioxane	NS	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	250 U	250 U
2,2-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
4-Methyl-2-pentanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	4.3 J	3.5 J	5 U	5 U	5 U	10 U	5 U	5 U
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Bromobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Bromoform	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U
Bromomethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Carbon disulfide	60	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Carbon tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Chloromethane	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	**61**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	1.2 J
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Ethyl ether	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Isopropylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Methyl tert butyl ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Methylene chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
n-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
n-Propylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Naphthalene	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
o-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
o-Xylene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
p-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
p-Diethylbenzene	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U
p-Ethyltoluene	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U
p-Isopropyltoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
p/m-Xylene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
sec-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
tert-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Tetrachloroethene	5	3	**12**	0.5 U	1.9	2	**98**	2	2.9	**130**	1.2	**20**
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	0.77 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Trichloroethene	5	0.42 J	4	0.5 U	0.78	0.5 U	1	0.22 J	0.18 J	4.7	0.5 U	0.93
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Vinyl acetate	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Vinyl chloride	2	1 U	**10**	1 U	1 U	1 U	1 U	0.14 J	1 U	2 U	1 U	0.19 J
Xylenes, Total	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U
Total VOCs	NS	3	87	ND	3	2	99	2	3	135	1	21

Notes:
[1] NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998, April 2000 addendum
* - Guidance Value
D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
Q - Indicates the lab controlled sample did not meet the control limits required.
U - The compound was not detected at the indicated concentration
Bold / Shaded text denotes concentrations exceeding NYSDEC AWQS

One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-1																
		11/13/01	1/19/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 in µg/L																		
1,1,1,2-Tetrachloroethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,1-Dichloropropene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2,3-Trichlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2,3-Trichloropropane	0.04	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2,4,5-Tetramethylbenzene	5	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2,4-Trichlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2,4-Trimethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2-Dibromo-3-chloropropane	0.04	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2-Dibromoethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,3,5-Trimethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,3-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,3-Dichloropropane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,4-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
2,2-Dichloropropane	5	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
2-Chloroethyl vinyl ether	NS	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
2-Chlorotoluene	5	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
2-propanol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
4-Chlorotoulene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Acrolein	5 G	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Acrylonitrile	5	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Bromobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Bromochloromethane	NS	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Carbon Disulfide	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Chlorodibromomethane	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Chlorodifluoromethane	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
cis-1,2-Dichloroethene	5	ND	1	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	NC	NC
cis-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Dibromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Dibromomethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Dichlorodifluoromethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Diisopropyl ether	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Ethanol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Ethyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Freon 113	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Freon-114	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Hexachlorobutadiene	0.5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Isopropyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Isopropylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Methyl Tertiary Butyl Ether	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
n-Amyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
Naphthalene	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
n-Butyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
n-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
n-Propyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
n-Propylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
o Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
p-Diethylbenzene	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
p-Ethyltoluene	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
p-Isopropyltoluene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
sec-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
t-butyl alcohol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NC	NC
tert-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Tetrachloroethene	5	100	83	120	25	62	50	19	12	80	11	18	10	15	7	15	NC	NC
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Trichloroethene	5	4	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	NC	NC
Trichlorofluoromethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Vinyl acetate	NS	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NC	NC

Notes:

1 - NYSDEC Class GA Groundwater Standards,
TOGS 1.1.1, June 1998
NS - Not specified.
ND - Not detected.
NA - Not analyzed.
NC - Sample not collected.

Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

G - Guidance value.

One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-2																
		11/13/01	1/19/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/16	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i																		
1,1,1,2-Tetrachloroethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND
Acrolein	5 G	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	ND	NA	NA	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
Bromobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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	NS	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
Chlorodibromomethane	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	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
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND
cis-1,2-Dichloroethene	5	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	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	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	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
Freon 113	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	NA	NA	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	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	0.95	ND	ND
p-Ethyltoluene	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	11	14	ND	ND	5.1	6	3.7	5.2	5.0	3.6	7.5	4.7	6.1	5.6	9.1	9.1	3.0
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65	0.19	ND
Trichlorofluoromethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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One Shore Road, Glenwood Landing, NY

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Compound	NYSDEC Standards[1]	MW-3																	
		11/13/01	1/19/05	2/11/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i																			
1,1,1,2-Tetrachloroethane	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	1	1.2	0.91	0.89	0.87	1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	NA	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	43	15	ND	ND	8.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND
Acrolein	5 G	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	NA	ND	NA	NA	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	ND
Bromobenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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	NS	ND	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	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	97	14	ND	ND	6	1.8	ND	17	18	6.9	27	100	79	67	100	2.4	72	61
cis-1,3-Dichloropropene	0.04	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	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	79	27	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o Xylene	5	ND	ND	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Diethylbenzene	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	0.95	ND	ND
p-Ethyltoluene	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	NA	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	54	ND	ND	ND	ND	1.1	3.7	3.2	4.6	2.8	6.4	20	54	37	13	0.47	11	12
Toluene	5	ND	11000	2310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	0.85	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	9	0.7	ND	ND	ND	1.2	9.1	7.4	6.5	2.2	6.0	7.1	6.9	6.3	2.4	0.8	4.4	4.0
Trichlorofluoromethane	5	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	5	ND	ND	ND	ND	ND	4.6	4.3	4.0	2.2	6.2	13	6.5	8.5	5.9	0.65	13	10

Notes:

1 - NYSDEC Class GA Groundwater Standards,
TOGS 1.1.1, June 1998
NS - Not specified.
ND - Not detected.
NA - Not analyzed.
NC - Sample not collected.

Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

G - Guidance value.

One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-4																
		11/13/01	1/19/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i																		
1,1,1,2-Tetrachloroethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	2.5	ND	ND
Acrolein	5 G	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	ND	NA	NA	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
Bromobenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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	NS	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
Chlorodibromomethane	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	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
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	3	ND	ND	ND	0.77	ND	3	2	0.53	ND	ND	ND	ND	ND	2.4	ND	ND
cis-1,3-Dichloropropene	0.04	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	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	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
Freon 113	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	NA	NA	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	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	0.95	ND	ND
p-Ethyltoluene	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	65	ND	ND	ND	0.82	5.6	1.8	0.98	2.2	2.2	1.2	ND	ND	0.35	0.34	0.26	ND
Toluene	5	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	7	ND	ND	8	1.8	12	3.9	0.52	0.54	0.64	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.85	ND	ND

Notes:

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One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-5														
		1/19/05	9/5/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 ii																
1,1,1,2-Tetrachloroethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Chlorotoluene	5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
4-Chlorotoulene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND
Acrolein	5 G	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	ND	NA	NA	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
Bromobenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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
Carbon Disulfide	NS	ND	ND	ND	ND	6.9	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
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	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
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND
cis-1,3-Dichloropropene	0.04	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
Dibromomethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethanol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Freon-114	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Isopropylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Naphthalene	10	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
n-Butylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
n-Propylbenzene	5	NA	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
p-Diethylbenzene	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
tert-Butylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	11	ND	ND	ND	ND	ND	ND	4.8	ND	0.53	ND	ND	0.41	6.2	1.9
Toluene	5	ND	ND	ND	ND	2.2	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	6	ND	6	1.1	ND	1.1	ND	2.5	1.2	ND	ND	ND	0.19	0.55	0.78
Trichlorofluoromethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND

Notes:

1 - NYSDEC Class GA Groundwater Standards,
TOGS 1.1.1, June 1998
NS - Not specified.
ND - Not detected.
NA - Not analyzed.
NC - Sample not collected.

Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

G - Guidance value.

One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-6												
		1/19/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	10/25/16	10/31/17	4/27/17
Volatile Organic Compounds by EPA Method 8260 i														
1,1,1,2-Tetrachloroethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
2,2-Dichloropropane	5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
2-Chloroethyl vinyl ether	NS	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
2-Chlorotoluene	5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
4-Chlorotoulene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5 G	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Acrylonitrile	5	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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
Carbon Disulfide	NS	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
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Chlorodifluoromethane	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	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
Dibromomethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Ethanol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Ethyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Freon-114	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Hexachlorobutadiene	0.5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Isopropylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Naphthalene	10	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
n-Butylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
n-Propylbenzene	5	NA	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
p-Diethylbenzene	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
p-Ethyltoluene	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
p-Isopropyltoluene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
tert-Butylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	2	ND	ND	2.2	2.3	2.1	4.3	6.5	2.8	15	2.2	3.3	2
Toluene	5	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	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
Trichlorofluoromethane	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1 - NYSDEC Class GA Groundwater Standards, TOGS 1.1.1, June 1998

NS - Not specified.

ND - Not detected.

NA - Not analyzed.

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Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

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One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-7															
		1/19/05	9/6/06	9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i																	
1,1,1,2-Tetrachloroethane	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	3	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	3	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5 G	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	NS	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	27	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o Xylene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Diethylbenzene	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	267	530	271	NA	240	120	130	400	140	290	190	110	140	97	170	98
Toluene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	16.5	ND	ND	NA	ND	ND	ND	5.3	ND	4.9	2.6	1	1	0.89	2.2	1
Trichlorofluoromethane	5	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1 - NYSDEC Class GA Groundwater Standards,
TOGS 1.1.1, June 1998
NS - Not specified.
ND - Not detected.
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Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

G - Guidance value.

One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-8													
		9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i															
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	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
1,2-Dibromoethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	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
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5 G	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	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
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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
Carbon Disulfide	NS	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
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	1022	440	210	15	ND	ND	4.2	14	ND	21	16	30	3.8	ND
cis-1,3-Dichloropropene	0.04	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
Dibromomethane	5	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
Diisopropyl ether	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	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
p-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	5994	930	700	120	120	240	190	320	21	48	38	33	120	2
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	742	92	25	ND	ND	ND	ND	18	0.55	4	2.8	3.2	5.6	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	ND	ND	ND

Notes:

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One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-8D												
		9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i														
1,1,1,2-Tetrachloroethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	NA	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
4-Chlorotoulene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	NA	ND	ND	ND	ND	ND	ND	ND	9.7	ND	ND	ND
Acrolein	5 G	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chloroethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	18	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Naphthalene	10	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o Xylene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	308	NA	4.6	6.4	5.5	12	1.3	3.6	3.8	1.0	0.76	64	2.9
Toluene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	7	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND
Trichlorofluoromethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1 - NYSDEC Class GA Groundwater Standards, TOGS 1.1.1, June 1998

NS - Not specified.

ND - Not detected.

NA - Not analyzed.

NC - Sample not collected.

Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

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One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-9													
		9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 i															
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	2.8	ND	5.2	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	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
1,2-Dibromoethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	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
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5 G	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	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
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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
Carbon Disulfide	NS	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
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	17	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	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
Dibromomethane	5	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
Diisopropyl ether	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	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
p-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	175	400	280	300	330	210	280	170	53	270	130	270	160	130
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	9	12	10	11	16	4	12	22	4.3	8.9	13	8	16	4.7
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1 - NYSDEC Class GA Groundwater Standards,
TOGS 1.1.1, June 1998
NS - Not specified.
ND - Not detected.
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Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

G - Guidance value.

One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[(1)]	MW-9D													
		9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 ii															
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	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
1,2-Dibromoethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	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
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND
Acrolein	5 G	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	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
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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
Carbon Disulfide	NS	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
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	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
Dibromomethane	5	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
Diisopropyl ether	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	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
p-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	12	1.2	ND	ND	ND	ND	ND	ND	ND	1	ND	0.86	2	1.2
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	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	0.2	0.34	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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One Shore Road, Glenwood Landing, NY

Table 2

Historical Groundwater Monitoring Well Analytical Results for VOCs by EPA Method 8260

Compound	NYSDEC Standards[1]	MW-10													
		9/17/08	4/6/09	7/7/09	10/7/09	1/20/10	4/8/10	10/13/10	4/20/11	4/24/15	10/28/15	4/28/16	10/25/16	4/27/17	10/31/17
Volatile Organic Compounds by EPA Method 8260 ii															
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	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
1,1-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	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
1,2-Dibromoethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	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
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NS	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
2-Hexanone	50 G	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-propanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Chlorotoulene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	5 G	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Acrylonitrile	5	NA	NA	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
Bromobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	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
Carbon Disulfide	NS	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
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	0.83	ND	1.4	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.04	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
Dibromomethane	5	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
Diisopropyl ether	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethanol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Ethyl Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon-114	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m + p Xylene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertiary Butyl Ether	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Amyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl acetate	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	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
p-Diethylbenzene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-butyl alcohol	NS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	121	41	140	17	120	50	69	80	22	66	92	9.9	80	20
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	1.3	1.5	ND	1.4	0.67	0.62	1.3	0.78	ND	0.77	0.77	0.56	0.93
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1 - NYSDEC Class GA Groundwater Standards,
TOGS 1.1.1, June 1998
NS - Not specified.
ND - Not detected.
NA - Not analyzed.
NC - Sample not collected.

Bold / Shaded text denotes concentrations exceeding the Groundwater Standards.

G - Guidance value.

TABLE 3

Indoor Air Analytical Results - VOCs

1 Shore Road, Glenwood Landing, New York

LOCATION	NYSDOH	FITNESS CENTER		WAREHOUSE		OFFICE		COMMERCIAL		HOUSE		OUTDOOR	
SAMPLE ID	AGV[1]	IA001		IA002		IA003		IA004		IA005		OA001	
SAMPLING DATE													
LAB SAMPLE ID													
SAMPLE TYPE		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Outdoor Air	
Volatile Organic Compounds													
1,1,1-Trichloroethane	NS	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U
1,1,2,2-Tetrachloroethane	NS	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U
1,1,2-Trichloroethane	NS	0.109	U	0.316		0.256		0.109	U	0.109	U	0.109	U
1,1-Dichloroethane	NS	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
1,1-Dichloroethene	NS	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U
1,2,4-Trichlorobenzene	NS	0.371	U	0.371	U	0.371	U	0.371	U	0.371	U	0.371	U
1,2,4-Trimethylbenzene	NS	2.29		20.6		20.9		1.23		6.69		0.403	
1,2-Dibromoethane	NS	0.154	U	0.154	U	0.154	U	0.154	U	0.154	U	0.154	U
1,2-Dichlorobenzene	NS	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
1,2-Dichloroethane	NS	0.081	U	0.081		0.081	U	0.081	U	0.081	U	0.081	U
1,2-Dichloropropane	NS	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U
1,3,5-Trimethylbenzene	NS	0.142		0.122		0.115		0.150		0.153		0.117	
1,3-Butadiene	NS	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
1,3-Dichlorobenzene	NS	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
1,4-Dichlorobenzene	NS	0.360	U	0.360	U	0.360	U	0.360	U	0.360	U	0.360	U
1,4-Dioxane	NS	0.703		9.05		9.00		0.487		1.71		0.113	
2,2,4-Trimethylpentane	NS	4.30		1.07		1.01		0.972		3.13		0.934	U
2-Butanone	NS	1.61		2.52		2.49		1.47	U	1.47	U	1.47	U
2-Hexanone	NS	0.820	U	0.820	U	0.820	U	0.820	U	0.820	U	0.820	U
3-Chloropropene	NS	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
4-Ethyltoluene	NS	0.585		3.90		3.80		0.265		1.59		0.123	
4-Methyl-2-pentanone	NS	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U
Acetone	NS	2.38	U	43.0		38.0		2.38	U	2.38	U	5.25	
Benzene	NS	2.42		1.14		1.05		0.946		1.68		0.792	
Benzyl chloride	NS	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
Bromodichloromethane	NS	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U
Bromoform	NS	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U
Bromomethane	NS	0.078	U	0.078	U	0.078	U	0.078	U	0.078	U	0.078	U
Carbon disulfide	NS	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U
Carbon tetrachloride	NS	0.440		0.453		0.428		0.428		0.440		0.447	
Chlorobenzene	NS	0.461	U	0.461	U	0.461	U	0.461	U	0.461	U	0.461	U
Chloroethane	NS	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U
Chloroform	NS	0.273		0.225		0.210		0.137		0.151		0.117	
Chloromethane	NS	1.13		1.24		1.14		1.16		1.08		1.13	
cis-1,2-Dichloroethene	NS	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U
cis-1,3-Dichloropropene	NS	0.091	U	0.091	U	0.091	U	0.091	U	0.091	U	0.091	U
Cyclohexane	NS	1.78		0.688	U	0.688	U	0.688	U	0.933		0.688	U
Dibromochloromethane	NS	0.170	U	0.170	U	0.170	U	0.170	U	0.170	U	0.170	U
Dichlorodifluoromethane	NS	1.37		1.61		2.32		1.63		1.38		1.58	
Ethanol	NS	30.9		11.2		9.42	U	9.42	U	9.42	U	9.42	U
Ethyl Acetate	NS	10.5		1.80	U	1.80	U	1.80	U	1.80	U	1.80	U
Ethylbenzene	NS	1.32		0.899		0.812		0.408		1.75		0.374	
Freon-113	NS	0.483		0.521		0.491		0.491		0.483		0.483	
Freon-114	NS	0.349	U	0.349	U	0.349	U	0.349	U	0.349	U	0.349	U
Heptane	NS	4.07		0.914		0.820	U	0.820	U	2.95		0.820	U
Hexachlorobutadiene	NS	0.533	U	0.533	U	0.533	U	0.533	U	0.533	U	0.533	U
Isopropanol	NS	9.41		4.06		2.85		1.23	U	1.23	U	1.47	
Methyl tert butyl ether	NS	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Methylene chloride	60	6.60		4.48		3.51		1.74	U	1.74	U	1.74	U
n-Hexane	NS	7.01		1.67		1.54		1.09		2.79		0.761	
o-Xylene	NS	1.79		3.08		2.85		0.586		3.43		0.456	
p/m-Xylene	NS	4.91		6.47		5.86		1.52		7.12		1.25	
Styrene	NS	0.204		0.179		0.170		0.179		0.179		0.115	
Tetrachloroethene	30	2.21		0.597		0.481		0.542		20.6		0.515	
Tetrahydrofuran	NS	1.47	U	2.04		2.57		1.47	U	1.47	U	1.47	U
Toluene	NS	14.7		4.71		4.86		2.52		8.55		2.03	
trans-1,2-Dichloroethene	NS	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U
trans-1,3-Dichloropropene	NS	0.091	U	0.091	U	0.091	U	0.091	U	0.091	U	0.091	U
Trichloroethene	5	0.107	U	0.107	U	0.333		0.107	U	0.661		0.107	U
Trichlorofluoromethane	NS	1.19		1.26		1.19		1.17		1.29		1.21	
Vinyl bromide	NS	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
Vinyl chloride	NS	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U

Notes:

All Concentrations are ug/m3

1 - Air Guideline Values, NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (applies to indoor/ambient air only)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).

U - Not detected at the reported detection limit for the sample.

Shaded text denotes indoor air concentrations exceed NYSDOH AGV

TABLE 4
Historical Indoor Air Analytical Results - VOCs
1 Shore Road, Glenwood Landing, New York

LOCATION	NYSDOH	FITNESS CENTER					WAREHOUSE					OFFICE					COMMERCIAL					HOUSE				
SAMPLE ID	AGV[1]	IA-001					IA-002					IA-003					IA-004					IA-005				
SAMPLING DATE		Aug-05	May-06	Apr-15	Apr-16	Apr-17	Aug-05	May-06	Apr-15	Apr-16	Apr-17	Aug-05	May-06	Apr-15	Apr-16	Apr-17	Aug-05	May-06	Apr-15	Apr-16	Apr-17	Aug-05	May-06	Apr-15	Apr-16	Apr-17
Volatile Organic Compounds																										
1,1,1-Trichloroethane	NS	1.1 U	7.72 U	0.109 U	0.109 U	0.109 U	1.1 U	1.39 U	0.109 U	0.109 U	0.109 U	1.1 U	1.39 U	0.109 U	0.109 U	0.109 U	1.1 U	1.46 U	0.109 U	0.109 U	0.109 U	1.1 U	1.49 U	0.109 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	NS	1.4 U	9.77 U	0.137 U	0.137 U	0.137 U	1.4 U	1.76 U	0.137 U	0.137 U	0.137 U	1.4 U	1.76 U	0.137 U	0.137 U	0.137 U	1.4 U	1.85 U	0.137 U	0.137 U	0.137 U	1.4 U	1.88 U	0.137 U	0.137 U	0.137 U
1,1,2-Trichloroethane	NS	1.1 U	7.72 U	0.109 U	0.109 U	0.109 U	1.1 U	1.39 U	0.109 U	0.109 U	0.316	1.1 U	1.39 U	0.109 U	0.109 U	0.256	1.1 U	1.46 U	0.109 U	0.109 U	0.109 U	1.1 U	1.49 U	0.109 U	0.109 U	0.109 U
1,1-Dichloroethane	NS	0.81 U	7.63 U	0.081 U	0.081 U	0.081 U	0.81 U	1.38 U	0.081 U	0.081 U	0.081 U	0.81 U	1.38 U	0.081 U	0.081 U	0.081 U	0.81 U	1.44 U	0.081 U	0.081 U	0.081 U	0.81 U	1.47 U	0.081 U	0.081 U	0.081 U
1,1-Dichloroethene	NS	0.79 U	7.53 U	0.079 U	0.079 U	0.079 U	0.79 U	1.36 U	0.079 U	0.079 U	0.079 U	0.79 U	1.36 U	0.079 U	0.079 U	0.079 U	0.79 U	1.43 U	0.079 U	0.079 U	0.079 U	0.79 U	1.45 U	0.079 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	NS	3.7 U	9.58 U	0.371 U	0.371 U	0.371 U	3.7 U	1.73 U	0.371 U	0.371 U	0.371 U	3.7 U	1.73 U	0.371 U	0.371 U	0.371 U	3.7 U	1.81 U	0.371 U	0.371 U	0.371 U	3.7 U	1.84 U	0.371 U	0.371 U	0.371 U
1,2,4-Trimethylbenzene	NS	3.4	6.98 U	1.73	0.418	2.29	3.1	3.50	0.423	0.649	20.6	2.9	4.50	0.162	0.423	20.9	1.9	6.50	4.64	0.3	0.3	27	13.5	0.28	0.639	6.69
1,2-Dibromoethane	NS	1.5 U	10.9 U	0.154 U	0.154 U	0.154 U	1.5 U	1.97 U	0.154 U	0.154 U	0.154 U	1.5 U	1.97 U	0.154 U	0.154 U	0.154 U	1.5 U	2.06 U	0.154 U	0.154 U	0.154 U	1.5 U	2.09 U	0.154 U	0.154 U	0.154 U
1,2-Dichlorobenzene	NS	1.2 U	8.56 U	0.12 U	0.12 U	0.120 U	1.2 U	1.55 U	0.12 U	0.12 U	0.120 U	1.2 U	1.55 U	0.12 U	0.12 U	0.120 U	1.2 U	1.62 U	0.12 U	0.12 U	0.12 U	1.2 U	1.65 U	0.12 U	0.12 U	0.120 U
1,2-Dichloroethane	NS	0.81 U	5.77 U	0.081 U	0.081 U	0.081 U	0.81 U	1.04 U	0.081 U	0.081 U	0.081	0.81 U	1.04 U	0.081 U	0.081 U	0.081 U	0.81 U	1.09 U	0.081 U	0.081 U	0.081 U	0.81 U	1.11 U	0.081 U	0.081 U	0.081 U
1,2-Dichloropropane	NS	0.92 U	6.60 U	0.092 U	0.092 U	0.092 U	0.92 U	1.19 U	0.092 U	0.092 U	0.092 U	0.92 U	1.19 U	0.092 U	0.092 U	0.092 U	0.92 U	1.25 U	0.092 U	0.092 U	0.092 U	0.92 U	1.27 U	0.092 U	0.092 U	0.092 U
1,3,5-Trimethylbenzene	NS	1.3	6.98 U	0.398	0.118	0.142	0.98 U	1.26 U	0.098	0.192	0.122	0.98 U	2.00	0.098 U	0.113	0.115	0.98 U	2.50	1.17	0.098 U	0.098 U	7.4	3.50	0.098 U	0.152	0.153
1,3-Butadiene	NS	0.44 U	3.16 U	0.155	0.073	0.120 U	0.44 U	0.571 U	0.044 U	0.217	0.120 U	0.44 U	0.571 U	0.044 U	0.115	0.120 U	0.44 U	0.598 U	0.044 U	0.066	0.066	0.44 U	0.609 U	0.044 U	0.095	0.120 U
1,3-Dichlorobenzene	NS	1.2 U	8.56 U	0.12 U	0.12 U	0.120 U	1.2 U	1.55 U	0.12 U	0.12 U	0.120 U	1.2 U	1.55 U	0.12 U	0.12 U	0.120 U	1.2 U	1.62 U	0.12 U	0.12 U	0.12 U	1.2 U	1.65 U	0.12 U	0.12 U	0.120 U
1,4-Dichlorobenzene	NS	1.2 U	8.56 U	0.12 U	0.12 U	0.360 U	1.2 U	1.55 U	0.12 U	0.12 U	0.360 U	1.2 U	1.55 U	0.12 U	0.12 U	0.360 U	1.2 U	1.62 U	0.12 U	0.12 U	0.12 U	1.2 U	1.65 U	0.12 U	0.12 U	0.360 U
1,4-Dioxane	NS	18 U	5.12 U	0.36 U	0.36 U	0.703	18 U	0.924 U	0.36 U	0.36 U	9.05	18 U	0.924 U	0.36 U	0.36 U	9.00	18 U	0.968 U	0.36 U	0.36 U	0.36 U	18 U	0.984 U	0.36 U	0.36 U	1.71
2,2,4-Trimethylpentane	NS	1.1	6.60 U	0.934 U	0.934 U	4.30	3.3	1.19 U	0.934 U	0.986	1.07	3.0	1.19 U	0.934 U	1.52	1.01	1.3	1.25 U	8.41	0.934 U	0.934 U	1.0	5.23	0.934 U	3.23	3.13
2-Butanone	NS	7.1	4.18 U	10.3	1.73	1.61	9.4	0.756 U	1.47 U	1.47 U	2.52	12	0.756 U	1.47 U	1.47 U	2.49	14	0.792 U	1.47 U	1.47 U	1.47 U	2.9	0.805 U	1.47 U	1.47 U	1.47 U
2-Hexanone	NS	4.9	5.86 U	0.82 U	0.82 U	0.820 U	5.3	1.06 U	0.82 U	0.82 U	0.820 U	2.1	1.06 U	0.82 U	0.82 U	0.820 U	4.0	1.11 U	0.82 U	0.82 U	0.82 U	5.7	1.13 U	0.82 U	0.82 U	0.820 U
3-Chloropropene	NS	0.63 U	NS	0.626 U	0.626 U	0.626 U	0.63 U	NS	0.626 U	0.626 U	0.626 U	0.63 U	NS	0.626 U	0.626 U	0.626 U	0.63 U	NS	0.626 U	0.626 U	0.626 U	0.63 U	NS	0.626 U	0.626 U	0.626 U
4-Ethyltoluene	NS	2.5	6.98 U	0.413	0.118	0.585	2.2	3.99	0.108	0.192	3.90	2.2	1.26 U	0.098 U	0.128	3.80	1.5	4.99	1.07	0.098 U	0.098 U	16	17.5	0.098 U	0.182	1.59
4-Methyl-2-pentanone	NS	NS	NS	2.05 U	2.05 U	2.05 U	NS	NS	2.05 U	2.05 U	2.05 U	NS	NS	2.05 U	2.05 U	2.05 U	NS	NS	2.05 U	2.05 U	2.05 U	NS	NS	2.05 U	2.05 U	2.05 U
Acetone	NS	50	338	20.4	19.7	2.38 U	100	21.0	12	14.5	43.0	120	43.5	5.49	10.1	38.0	86	33.8	6.79	8.17	8.17	16	29.0	504	41.6	2.38 U
Benzene	NS	0.83	4.56 U	0.45	0.447	2.42	1.3	0.823 U	0.361	0.837	1.14	1.4	0.823 U	0.319 U	0.719	1.05	0.86	0.862 U	1.33	0.486	0.486	0.89	7.15	0.361	1.53	1.68
Benzyl chloride	NS	NS	9.39 U	1.04 U	1.04 U	1.04 U	NS	1.70 U	1.04 U	1.04 U	1.04 U	NS	1.70 U	1.04 U	1.04 U	1.04 U	NS	1.78 U	1.04 U	1.04 U	1.04 U	NS	1.81 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	NS	1.3 U	9.49 U	0.134 U	0.134 U	0.134 U	1.3 U	1.71 U	0.134 U	0.134 U	0.134 U	1.3 U	1.71 U	0.134 U	0.134 U	0.134 U	1.3 U	1.80 U	0.134 U	0.134 U	0.134 U	1.3 U	1.83 U	0.134 U	0.134 U	0.134 U
Bromoform	NS	2.1 U	14.7 U	0.207 U	0.207 U	0.207 U	2.1 U	2.65 U	0.207 U	0.207 U	0.207 U	2.1 U	2.65 U	0.207 U	0.207 U	0.207 U	2.1 U	2.78 U	0.207 U	0.207 U	0.207 U	2.1 U	2.83 U	0.207 U	0.207 U	0.207 U
Bromomethane	NS	0.78 U	7.35 U	0.078 U	0.967	0.078 U	0.78 U	1.33 U	0.078 U	0.159	0.078 U	0.78 U	1.33 U	0.078 U	0.101	0.078 U	0.78 U	1.39 U	0.078 U	0.148	0.148	0.78 U	1.41 U	0.078 U	0.078 U	0.078 U
Carbon disulfide	NS	2	4.46 U	0.623 U	0.623 U	0.623 U	1.6 U	0.806 U	0.623 U	0.623 U	0.623 U	1.6 U	0.806 U	0.623 U	0.623 U	0.623 U	1.6 U	0.845 U	0.623 U	0.623 U	0.623 U	1.6 U	0.859 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride	NS	1.3 U	8.93 U	0.346	0.428	0.440	1.3 U	1.61 U	0.327	0.421	0.453	1.3 U	1.61 U	0.352	0.453	0.428	1.3 U	1.69 U	0.333	0.421	0.421	1.3 U	1.72 U	0.359	0.44	0.440
Chlorobenzene	NS	0.92 U	6.51 U	0.092 U	0.461 U	0.461 U	0.92 U	1.18 U	0.092 U	0.461 U	0.461 U	0.92 U	1.18 U	0.092 U	0.461 U	0.461 U	0.92 U	1.23 U	0.092 U	0.461 U	0.461 U	0.92 U	1.25 U	0.092 U	0.461 U	0.461 U
Chloroethane	NS	0.53 U	5.02 U	0.053 U	0.053 U	0.053 U	0.53 U	0.907 U	0.053 U	0.053 U	0.053 U	0.53 U	0.907 U	0.053 U	0.053 U	0.053 U	0.53 U	0.950 U	0.053 U	0.053 U	0.053 U	0.53 U	0.967 U	0.053 U	0.053 U	0.053 U
Chloroform	NS	0.98 U	6.88 U	0.098 U	0.156	0.273	0.98 U	1.24 U	0.098 U	0.112	0.225	0.98 U	1.24 U	0.127	0.098 U	0.210	0.98 U	1.30 U	0.098 U	0.098 U	0.098 U	0.98 U	1.32 U	0.098 U	0.098 U	0.151
Chloromethane	NS	2.1	3.91 U	1.26	1.18	1.13	1.0 U	0.706 U	0.999	1.25	1.24	1.1	0.706 U	0.985	1.17	1.14	1.1 U	0.739 U	0.95	1.14	1.14	1.0 U	0.752 U	1.07	1.13	1.08
cis-1,2-Dichloroethene	NS	0.79 U	7.53 U	0.079 U	0.079 U	0.079 U	0.79 U	1.36 U	0.079 U	0.079 U	0.079 U	0.79 U	1.36 U	0.079 U	0.079 U	0.079 U	0.79 U	1.43 U	0.079 U	0.079 U	0.079 U	0.79 U	1.45 U	0.079 U	0.079 U	0.079 U
cis-1,3-Dichloropropene	NS	0.91 U	6.42 U	0.091 U	0.091 U	0.091 U	0.91 U	1.16 U	0.091 U	0.091 U	0.091 U	0.91 U	1.16 U	0.091 U	0.091 U	0.091 U	0.91 U	1.21 U	0.091 U	0.091 U	0.091 U	0.91 U	1.24 U	0.091 U	0.091 U	0.091 U
Cyclohexane	NS	0.69 U	4.93 U	0.747	0.688 U	1.78	0.86	0.890 U	0.699	0.688 U	0.688 U	0.69	0.890 U	0.688 U	0.688 U	0.688 U	0.69 U	0.933 U	0.847	0.688 U	0.688 U	0.69 U	0.949 U	0.688 U	1.07	0.933
Dibromochloromethane	NS	1.7 U	12.1 U	0.17 U	0.17 U	0.170 U	1.7 U	2.18 U	0.17 U	0.17 U	0.170 U	1.7 U	2.18 U	0.17 U	0.17 U	0.170 U	1.7 U	2.29 U	0.17 U	0.17 U	0.17 U	1.7 U	2.33 U	0.17 U	0.17 U	0.170 U
Dichlorodifluoromethane	NS	2.5 U	9.39 U	1.57	2.02	1.37	13	1.70 U	1.57	2	1.61	5.9	1.70 U	1.87	1.64	2.32	2.5 U	1.78 U	1.72	2.23	2.23	2.5	1.81 U	1.37	1.62	1.38
Ethanol	NS	NS	NS	7.18	119	30.9	NS	NS	4.71 U	12.4	11.2	NS	NS	4.71 U	9.42 U	9.42 U	NS	NS	23.2	9.42 U	9.42 U	NS	NS	25.2	23	9.42 U
Ethyl Acetate	NS	NS	5.21 U	1.8 U	2.14	10.5	NS	0.941 U	1.8 U	1.8 U	1.80 U	NS	0.941 U	1.8 U	1.8 U	1.80 U	NS	0.986 U	1.8 U	1.8 U	1.8 U	NS	1.00 U	1.8 U	1.8 U	1.80 U
Ethylbenzene	NS	2.3	6.14 U	0.743	0.673	1.32	2.3	1.77	0.5	0.617	0.899	2.7	1.11 U	0.178	0.374	0.812	2.0	1.16 U	2.79	0.265	0.265	96	7.95	0.43	3.63	1.75
Freon-113	NS	NS	NS	0.498	0.46	0.483	NS	NS	0.491	0.475	0.521	NS	NS	0.475	0.468	0.491	NS	NS	0.475	0.46	0.46	NS	NS	38.6	0.475	0.483
Freon-114	NS	NS	NS	0.078 U	0.349 U	0.349 U	NS	NS	0.349 U	0.349 U	0.349 U	NS	NS	0.349 U	0.349 U	0.349 U	NS	NS	0.349 U	0.349 U	0.349 U	NS	NS	0.349 U	0.349 U	0.349 U
Heptane	NS	1.5	5.77 U	2.27	1.26	4.07	1.8	1.04 U	0.82 U	0.82 U	0.914	2.0	1.04 U	0.82 U	0.82 U	0.820 U	4.5	1.09 U	2.17	0.82 U	0.82 U	1.8	11.7	0.82 U	2.04	2.95
Hexachlorobutadiene	NS	2.1 U	10.6 U	0.533 U	0.533 U	0.533 U	2.1 U	1.92 U	0.533 U	0.533 U	0.533 U	2.1 U	1.92 U	0.533 U	0.533 U	0.533 U	2.1 U	2.01 U	0.533 U	0.533 U	0.533 U	2.1 U	2.04 U	0.533 U	0.533 U	0.533 U
Isopropanol	NS	12 U	3.44 U	1.41	3.15	9.41	37	0.622 U	1.23 U	2.2	4.06	59	0.622 U	1.23 U	3.61	2.85	23	0.651 U	1.23 U	1.23 U	1.23 U	12 U	0.662 U	1.23 U	1.23 U	1.23 U
Methyl tert butyl ether	NS	1.8 U	5.12 U	0.072 U	0.721 U	0.721 U	1.8 U	0.924 U	0.072 U	0.721 U	0.721 U	1.8 U	0.924 U	0.072 U	0.721 U	0.721 U	1.8 U	0.968 U	0.072 U	0.721 U	0.721 U	1.8 U	0.984 U	0.072 U	0.721 U	0.721 U
Methylene chloride	60	6.3	6.60 U	10.6	30.1	6.60	110	1.19 U	41	15.5	4.48	170	1.19 U	1.74 U	9.35	3.51	800	1.25 U	3.27	4.59	4.59	1.7 U	1.27 U	1.74 U	2.86	1.74 U
n-Hexane	NS	1.2	5.02 U	0.881	0.705 U	7.01	3.3	0.907 U	2.63	1.46	1.67	2.8	0.907 U	0.705 U	1.09	1.54	1.7	0.950 U	3.09	0.705 U	0.705 U	1.2	7.51	0.705 U	3.74	2.79
o-Xylene	NS	2.6	6.14 U	0.812	1.29	1.79	2.6	2.21	0.5	0.669	3.08	3.2	1.11 U	0.182	0.413	2.85	2.0	2.21	3.64	0.291	0.291	65	12.4	0.304	1.87	3.43
p/m-Xylene	NS	7.4	6.14 U	2.68	3.01	4.91	7.4	3.97	1.71	1.91	6.47	8.7	1.77	0.56	1.14	5.86	5.6	3.09	9.56	0.795	0.795	270	16.3 U	1.27	9.9	7.12
Styrene	NS	6	6.05 U	0.192	0.162	0.204	2.6	1.09 U	0.085 U	0.179	0.179	3.4	1.09 U	0.085 U	0.085 U	0.170	6.4	1.14 U	0.085	0.085 U	0.085 U	0.85 U	1.16 U	0.085 U	0.234	0.179
Tetrachloroethene	30	55	28.3	1.15	1.92	2.21	9.5	6.90	0.136 U	0.136 U	0.597	7.5	4.83	0.136 U	0.237	0.481	14	6.90	0.136	0.136 U	0.136 U	11	10.4	2.45	24.5	20.6
Tetrahydrofuran	NS	15 U	4.18 U	1.47 U	1.47 U	1.47 U	15 U	0.756 U	1.47 U	1.47 U	2.04	15 U	0.756 U	1.47 U	1.47 U	2.57	15 U	0.792 U	1.47 U	1.47 U	1.47 U	15 U	0.805 U	1.47 U	1.47 U	1.47 U
Toluene	NS	27	11.1	4.41	3.66	14.7	31	5.75	7.16	3.92	4.71	26	8.43	0.957	2.21	4.86	34	6.90	17.2	1.36	1.36	9.0	38.3	4.86	129	8.55
trans-1,2-Dichloroethene	NS	0.79 U	5.58 U	0.079 U	0.079 U	0.079 U	0.79 U	1.01 U	0.079 U	0.079 U	0.079 U	0.79 U	1.01 U	0.079 U	0.079 U	0.079 U	0.79 U	1.06 U	0.079 U	0.079 U	0.079 U	0.79 U	1.07 Y	0.079 U	0.079 U	0.079 U
trans-1,3-Dichloropropene	NS	0.91 U	6.42 U	0.091 U	0.091 U	0.091 U	0.91 U	1.16 U	0.091 U	0.091 U	0.091 U	0.91 U	1.16 U	0.091 U	0.091 U	0.091 U	0.91 U	1.21 U	0.091 U	0.091 U	0.091 U	0.91 U	1.24 U	0.091 U	0.091 U	0.091 U
Trichloroethene	5	1.1 U	7.63 U	0.107 U	0.107 U	0.107 U	1.1 U	1.38 U	0.107 U	0.107 U	0.107 U	1.5	1.38 U	0.107 U	0.107 U	0.333	1.1 U	1.44 U	0.107 U	0.107 U	0.107 U	1.1 U	1.47 U	0.107 U	0.107 U	0.661
Trichlorofluoromethane	NS	1.6	10.6 U	1.12	1.15	1.19	6.7	1.92 U	1.11	1.17	1.26	3.7	1.92 U	1.08	1.17	1.19	2.2	2.01 U	1.05	1.15	1.15	2.6	2.04 U	1.21	1.25	1.29
Vinyl bromide	NS	NS	6.23 U	0.874 U	0.874 U	0.874 U	NS	1.13 U	0.874 U	0.874 U	0.874 U	NS	1.13 U	0.874 U	0.874 U	0.874 U	NS	1.18 U	0.874 U	0.874 U	0.874 U	NS	1.20 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	NS	0.51 U	4.84 U	0.051 U	0.051 U	0.051 U	0.51 U	0.874 U	0.051 U	0.051 U	0.051 U	0.51 U	0.874 U	0.051 U	0.051 U	0.051 U	0.51 U	0.915 U	0.051 U	0.051 U	0.051 U	0.51 U	0.931 U	0.051 U	0.051 U	0.051 U

Notes:
All Concentrations are ug/m3
1 - Air Guideline Values, NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (applies to indoor/ambient air only)
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
Shaded text denotes indoor air concentrations exceed NYSDOH AGV

APPENDIX A

IC/EC 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. 130034

Site Name Penetrex Processing Company

Site Address: 1 Shore Road Zip Code: 11547
City/Town: Glenwood Landing
County: Nassau
Site Acreage: 1.0

Reporting Period: December 29, 2016 to December 29, 2017

	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? Restricted-Residential, 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

1/23/18
Date

SITE NO. 130034

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
20-K-10	Glenwood Realty LLC c/o WEINBERGER LAWRENCE	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

The Institutional Controls (ICs) for the site consist of compliance with the Environmental Easement and Site Management Plan (SMP); Operation and maintenance (O&M) of the Engineering Controls per the O&M Plan in the SMP; Inspection of the Environmental Controls per the SMP; Monitoring of groundwater, soil vapor, and other environmental/public health monitoring per the SMP; and Reporting per the SMP.

ICs at the site also include the following restrictions: Only Restricted Residential Use is allowed unless there is additional remediation and amendment of the EE; Use of groundwater underlying the property without treatment is prohibited; The potential for vapor impacts must be evaluated prior to future building in area noted on Figure 2 in SMP; Vegetable gardens and farming on the property are prohibited; and certification statements are to be submitted in accordance with the SMP.

Parcel	Owner	Institutional Control
20-K-11	Glenwood Realty LLC c/o Weinberger Lawrence	O&M Plan IC/EC Plan

		Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

The Institutional Controls (ICs) for the site consist of compliance with the Environmental Easement and Site Management Plan (SMP); Operation and maintenance (O&M) of the Engineering Controls per the O&M Plan in the SMP; Inspection of the Environmental Controls per the SMP; Monitoring of groundwater, soil vapor, and other environmental/public health monitoring per the SMP; and Reporting per the SMP.

ICs at the site also include the following restrictions: Only Restricted Residential Use is allowed unless there is additional remediation and amendment of the EE; Use of groundwater underlying the property without treatment is prohibited; The potential for vapor impacts must be evaluated prior to future building in area noted on Figure 2 in SMP; Vegetable gardens and farming on the property are prohibited; and certification statements are to be submitted in accordance with the SMP.

Parcel	Owner	Institutional Control
20-K-12	Glenwood Realty LLC c/o WEINBERGER LAWRENCE	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

The Institutional Controls (ICs) for the site consist of compliance with the Environmental Easement and Site Management Plan (SMP); Operation and maintenance (O&M) of the Engineering Controls per the O&M Plan in the SMP; Inspection of the Environmental Controls per the SMP; Monitoring of groundwater, soil vapor, and other environmental/public health monitoring per the SMP; and Reporting per the SMP.

ICs at the site also include the following restrictions: Only Restricted Residential Use is allowed unless there is additional remediation and amendment of the EE; Use of groundwater underlying the property without treatment is prohibited; The potential for vapor impacts must be evaluated prior to future building in

area noted on Figure 2 in SMP; Vegetable gardens and farming on the property are prohibited; and certification statements are to be submitted in accordance with the SMP.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
20-K-10	Groundwater Treatment System Vapor Mitigation Cover System

Engineering Controls consist of a soil cover system with an excavation work plan containing procedures for addressing breaches in the cover system; Sub-slab depressurization systems (SSDSs) operated per the O&M Plan have been installed in two site buildings; and In-Situ Chemical Treatment via the exisiting on-site system can be completed as needed based on semi-annual groundwater monitoring data.

20-K-11	Groundwater Treatment System Vapor Mitigation Cover System

Engineering Controls consist of a soil cover system with an excavation work plan containing procedures for addressing breaches in the cover system; Sub-slab depressurization systems (SSDSs) operated per the O&M Plan have been installed in two site buildings; and In-Situ Chemical Treatment via the exisiting on-site system can be completed as needed based on semi-annual groundwater monitoring data.

20-K-12	Groundwater Treatment System Vapor Mitigation Cover System

Engineering Controls consist of a soil cover system with an excavation work plan containing procedures for addressing breaches in the cover system; Sub-slab depressurization systems (SSDSs) operated per the O&M Plan have been installed in two site buildings; and In-Situ Chemical Treatment via the exisiting on-site system can be completed as needed based on semi-annual groundwater monitoring data.

Box 5

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 compete.

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 7/23/18

IC CERTIFICATIONS
SITE NO. 130034

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 David Weinberger (print name) at 99 Mineola Ave, Roslyn Heights, NY 11577 (print business address)

am certifying as Manager of Owner, Glenwood Realty LLC (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

Date 1/23/18

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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 CHARLES J. BARTHA at P.W. GROSSER CONSULTING 630 JOHNSON AVE BOHEMIA NY 11716

print name | print business address

am certifying as a Professional Engineer for the Glen Realty LLC (Owner or Remedial Party)

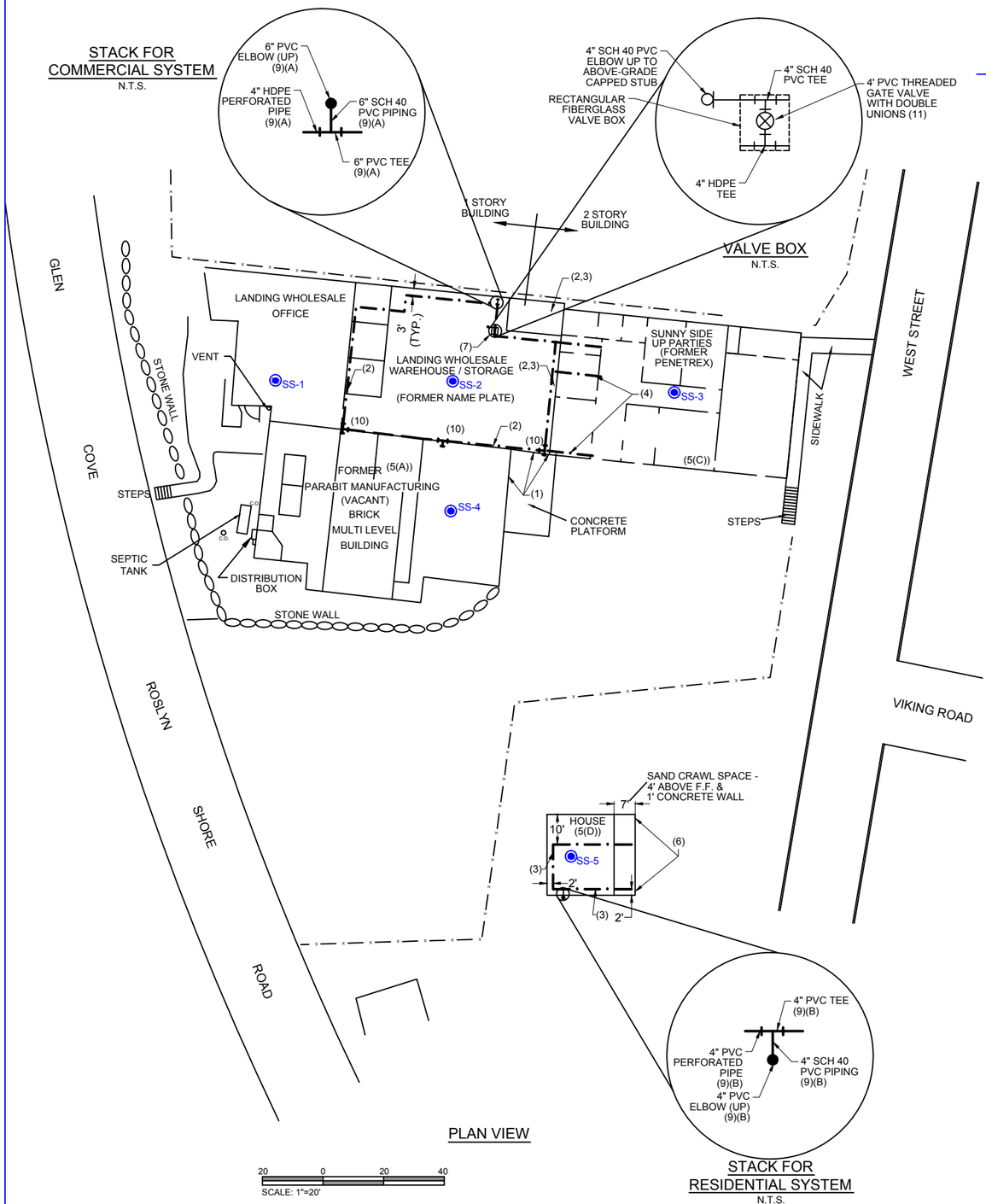
STATE OF NEW YORK CHARLES J. BARTHA 83104 LICENSED PROFESSIONAL ENGINEER

2-1-18

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date

APPENDIX B

SSDS As-Built Drawings

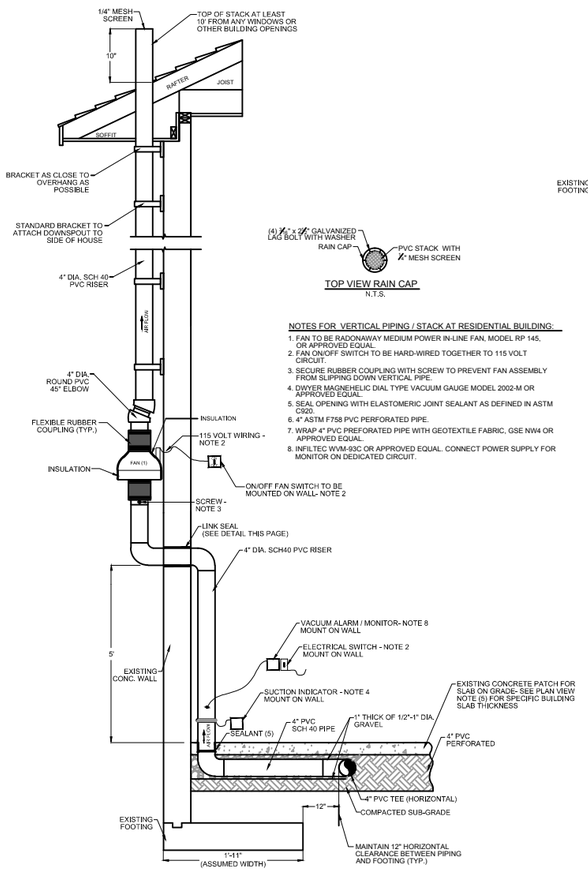


LEGEND

- SOLID PIPE
- PERFORATED PIPE
- SS-2 SUB-SLAB VAPOR SAMPLING LOCATION

NOTES:

1. THE LAND WHOLESALE WAREHOUSE, SUNNY SIDE UP PARTIES, AND PARABIT MANUFACTURING BUILDINGS ARE ASSUMED TO HAVE SEPARATE FOUNDATIONS.
2. INSTALL HDPE PERFORATED PIPING 3' FROM INTERIOR WALL. THIS ASSUMES FOOTINGS ARE 2' WIDE, FROM THE INTERIOR WALLS, AND THEREFORE THE PIPING IS 12" INSIDE OF THE FOOTINGS.
3. INSTALL 4" DIA. SCH 40 PVC SOLID PIPE IN SAME TRENCH AS HDPE PERFORATED PIPE W/ 12" OF CLEARANCE FROM FOUNDATION WALL.
4. INSTALL 3-15' SECTIONS OF 4" PVC PERFORATED PIPE W/ CAPPED ENDS. REFER TO CONSTRUCTION DETAILS (THIS SHEET). REMOVE CYLINDRICAL SECTIONS OF SOIL WITH HIGH PRESSURE AIR TO INSTALL PIPE.
5. (A) 10" THICK EXIST. CONCRETE SLAB WITH VAPOR BARRIER.
   (B) 11" THICK EXIST. CONCRETE SLAB WITH VAPOR BARRIER.
   (C) 11" THICK EXIST. CONCRETE SLAB WITH VAPOR BARRIER.
   (D) 4" THICK EXIST. CONCRETE SLAB.
6. INSTALL 2-8' SECTIONS OF 4" PVC PERFORATED PIPE. REFER TO (4) ABOVE FOR INSTALLATION DETAILS.
7. INSTALL CAPPED STUB OF 4" PVC SOLID PIPE 4' ABOVE F.F. FOR POSSIBLE FUTURE CONNECTION TO STACK & FAN. FAN & STACK WILL BE INSTALLED IF CONTAMINANT CONCENTRATIONS BENEATH THE SUNNY SIDE SLAB ARE NOT REDUCED WITHIN THE TIME INDICATED BY THE SAMPLING PLAN. AT THAT TIME, THE GATE VALVE WHICH ALLOWS FLOW FROM THE SUNNY SIDE SYSTEM INTO THE LANDING SYSTEM WILL BE CLOSED, ISOLATING THE TWO SYSTEMS.
8. INSTALL 4' CAPPED STUB FOR POSSIBLE FUTURE EXPANSION ON SOUTH SIDE OF BUILDING.
9. (A) FOR DETAILS OF THE 6" PVC TEE, CONNECTING HORIZONTAL PIPING, VERTICAL PIPING, ABOVE GRADE EQUIPMENT & THE EXHAUST STACK, REFER TO SUB-SLAB DE-PRESSURIZATION SYSTEM DETAIL FOR COMMERCIAL BUILDINGS (THIS SHEET).
   (B) FOR DETAILS OF THE 4" PVC TEE, CONNECTING HORIZONTAL PIPING, VERTICAL PIPING, ABOVE GRADE EQUIPMENT & THE EXHAUST STACK, REFER TO SUB-SLAB DE-PRESSURIZATION SYSTEM-DETAIL FOR RESIDENTIAL BUILDING (THIS SHEET).
10. INSTALL 4" HDPE TEES FOR POSSIBLE FUTURE EXPANSION OF SYSTEM.
11. INFILTEC WVM-93C OR APPROVED EQUAL. CONNECT POWER SUPPLY FOR MONITOR ON DEDICATED CIRCUIT.

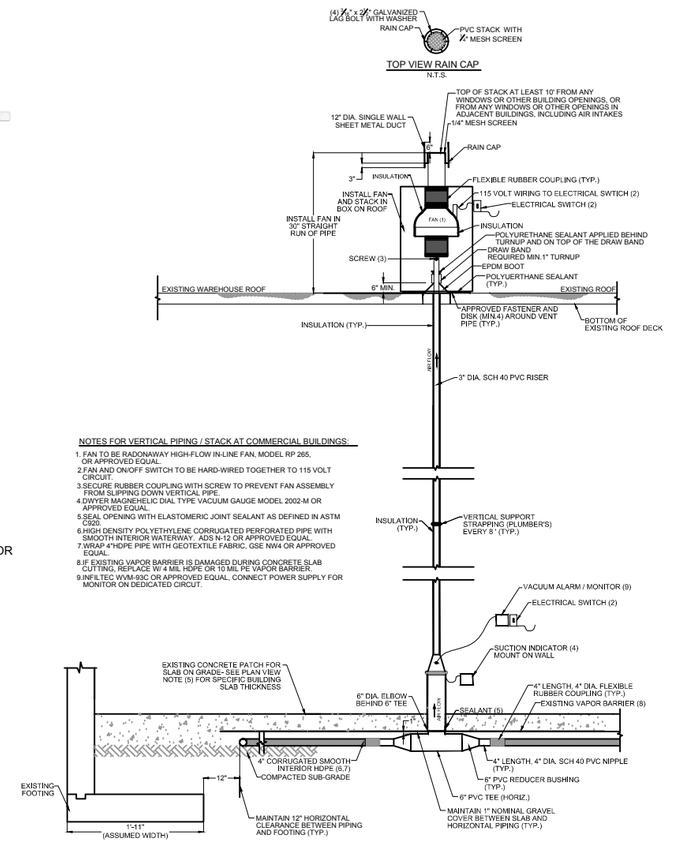


SUB-SLAB DE-PRESSURIZATION SYSTEM
DETAIL FOR RESIDENTIAL BUILDING
N.T.S.

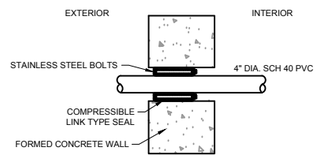
TOP VIEW RAIN CAP
N.T.S.

NOTES FOR VERTICAL PIPING / STACK AT RESIDENTIAL BUILDING:

1. FAN TO BE RADONAWAY MEDIUM POWER IN-LINE FAN, MODEL RP 145, OR APPROVED EQUAL.
2. FAN ON/OFF SWITCH TO BE HARD-WIRED TOGETHER TO 115 VOLT CIRCUIT.
3. SECURE RUBBER COUPLING WITH SCREW TO PREVENT FAN ASSEMBLY FROM SLIPPING DOWN VERTICAL PIPE.
4. DWYER MAGNEHELIC DIAL TYPE VACUUM GAUGE MODEL 2002-M OR APPROVED EQUAL.
5. SEAL OPENING WITH ELASTOMERIC JOINT SEALANT AS DEFINED IN ASTM C920.
6. 4" ASTM F758 PVC PERFORATED PIPE.
7. WRAP 4" PVC PREFORATED PIPE WITH GEOTEXTILE FABRIC, GSE NW4 OR APPROVED EQUAL.
8. INFILTEC WVM-93C OR APPROVED EQUAL. CONNECT POWER SUPPLY FOR MONITOR ON DEDICATED CIRCUIT.



SUB-SLAB DE-PRESSURIZATION SYSTEM
DETAIL FOR COMMERCIAL BUILDINGS
N.T.S.



LINK TYPE SEAL DETAIL
N.T.S.

REVISIONS	DATE	INITIAL	COMMENTS

AS-BUILT SITE PLAN AND DETAILS
1 SHORE ROAD
GLENWOOD LANDING
FORMER PENETREX PROCESSING
NYSDEC I.D. No. 130034

PWGC
Strategic Environmental & Engineering Solutions
630 Johnson Ave. Suite 7 Bohemia, N.Y. 11716-2618
Ph: 631 589-6353 Fx: 631 589-8705 E-mail: info@pwgrosser.com

Project: PEN0001	Approved By: PWG	Figure No: 7
Designed By: DD	Date: 8/15/07	
Drawn By: TC/LLG	Scale: AS SHOWN	

J:\Projects M-R\Pen - Penetrex\SSDPS\FIG1 As Built.dwg

APPENDIX C

Monitoring Well Sampling Logs

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-1	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NM		
Depth to Water (ft):	NM		
Depth to Bottom (ft):	NM		
Height of Water Column (ft):	NA	Well Diameter (in):	4
Standing Water Volume (gal):	NA	Calculated Purge Volume (gal):	N/A
Sample Date:		Begin Purge Time:	
Sample Time:		Complete Purge Time:	
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	NA	Purge Time (min):	NA
Actual Purge Volume (gal):	NA	Casing Volumes Removed:	N/A
Sample Appearance:		Odors Observed:	
Analytical Laboratory:	Alpha Analytical	Notes:	Not sampled. Well blocked by debris.
Date Shipped:	10/25/2016		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-2	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	11.42		
Depth to Bottom (ft):	18.19		
Height of Water Column (ft):	6.77	Well Diameter (in):	4
Standing Water Volume (gal):	4.40	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	12:19
Sample Time:	12:35	Complete Purge Time:	12:33
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	14
Actual Purge Volume (gal):	1.4	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	12:19	6.22	323	237	.133	.85			
2	12:21	6.24	216	197	.131	.51			
3	12:24	6.25	124	196	.129	.91			
4	12:27	6.25	93	201	.134	1.06			
5	12:30	6.27	71	202	.137	1.19			
6	12:33	6.27	50	202	0.13	1.18			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-3	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	9.51		
Depth to Bottom (ft):	18.35		
Height of Water Column (ft):	8.84	Well Diameter (in):	4
Standing Water Volume (gal):	NM	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	13:49
Sample Time:	14:05	Complete Purge Time:	14:04
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	15
Actual Purge Volume (gal):	1.5	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	13:49	6.35	134	10	1.76	1.19			
2	13:52	6.36	31.0	18	1.75	1.10			
3	13:55	6.35	21.7	18	1.77	1.12			
4	13:58	6.35	18.8	17	1.78	1.06			
5	14:01	6.34	17.3	18	1.80	0.89			
6	14:04	6.34	14.7	20	1.80	1.11			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-4	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	9.48		
Depth to Bottom (ft):	17.99		
Height of Water Column (ft):	8.51	Well Diameter (in):	4
Standing Water Volume (gal):	NM	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	12:54
Sample Time:	13:10	Complete Purge Time:	13:09
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	15
Actual Purge Volume (gal):	1.5	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	12:54	6.17	114	184	.047	1.54			
2	12:57	6.18	36.9	78	.062	1.48			
3	13:00	6.25	18.2	-21	.125	1.40			
4	13:03	6.25	15.8	-30	.140	1.31			
5	13:06	6.24	12.4	-34	.145	1.38			
6	13;09	6.25	12.2	-32	.145	1.34			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-5	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	11.03		
Depth to Bottom (ft):	20.00		
Height of Water Column (ft):	8.97	Well Diameter (in):	4
Standing Water Volume (gal):	5.83	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	13:24
Sample Time:	13:40	Complete Purge Time:	13:39
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	15
Actual Purge Volume (gal):	1.5	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	13:24	6.22	0.0	-79	0.708	6.55			
2	13:27	6.27	268.0	-94	0.858	6.57			
3	13:30	6.22	22.3	-83	0.840	3.01			
4	13:33	6.22	10.2	-82	0.845	3.01			
5	13:36	6.24	13.4	-84	0.847	3.01			
6	13:39	6.22	10.3	-84	0.840	3.04			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-6	Sampled By:	HRM
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	11.50		
Depth to Bottom (ft):	19.47		
Height of Water Column (ft):	7.97	Well Diameter (in):	2
Standing Water Volume (gal):	5.18	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	12:01
Sample Time:	12:07	Complete Purge Time:	12:05
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	5
Actual Purge Volume (gal):	0.5	Casing Volumes Removed:	N/A
Sample Appearance:	Clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
	NA		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	12:01	6.01	12.3	-68	0.654	9.01			
2	12:03	6.01	12.3	-68	0.610	9.57			
3	12:05	6.01	12.1	-68	0.66	9.57			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-7	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	19.36		
Depth to Bottom (ft):	28.98		
Height of Water Column (ft):	9.62	Well Diameter (in):	4
Standing Water Volume (gal):	6.25	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	10:48
Sample Time:	11:10	Complete Purge Time:	11:09
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	21
Actual Purge Volume (gal):	2.1	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	MS/MSD
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	10:48	6.62	959	196	1.80	5.54			
2	10:51	6.59	948	176	1.80	5.29			
3	10:54	6.50	503	177	1.90	4.73			
4	10:57	6.46	310	193	1.95	4.61			
5	11:00	6.44	259	204	1.93	4.80			
6	11:03	6.42	161	216	1.89	4.61			
7	11:06	6.42	63	217	1.88	4.61			
8	11:09	6.42	54	217	1.88	4.61			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-8	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	16.54		
Depth to Bottom (ft):	22.51		
Height of Water Column (ft):	5.97	Well Diameter (in):	2
Standing Water Volume (gal):	3.88	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	11:17
Sample Time:	11:30	Complete Purge Time:	11:30
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	13
Actual Purge Volume (gal):	1.3	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	11:17	6.28	0.0	170	0.563	3.24			
2	11:20	6.27	0.0	33	0.418	2.90			
3	11:23	6.31	0.0	6	0.407	3.24			
4	11:26	6.34	626	10	0.392	1.69			
5	11:29	6.35	72	11	0.388	1.68			
6	11:30	6.35	50	11	0.392	1.58			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-8D	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	16.60		
Depth to Bottom (ft):	42.70		
Height of Water Column (ft):	26.10	Well Diameter (in):	2
Standing Water Volume (gal):	16.97	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	11:36
Sample Time:	12:00	Complete Purge Time:	11:54
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	18
Actual Purge Volume (gal):	1.8	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	11:36	6.33	212	187	0.047	12.92			
2	11:39	6.38	112	235	0.066	10.20			
3	11:42	6.31	97.4	257	0.079	9.75			
4	11:45	6.32	99.0	261	0.104	9.62			
5	11:48	6.40	84.9	265	0.285	9.27			
6	11:51	6.40	63.4	265	0.313	9.18			
7	11:54	6.41	52.8	265	0.315	9.18			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-9	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	15.30		
Depth to Bottom (ft):	22.90		
Height of Water Column (ft):	7.60	Well Diameter (in):	2
Standing Water Volume (gal):	4.94	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	11:22
Sample Time:	11:45	Complete Purge Time:	11:48
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	26
Actual Purge Volume (gal):	2.6	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	11:22	6.45	0.0	300	1.08	0.62			
2	11:25	6.50	863	288	1.50	0.32			
3	11:28	6.52	467	279	1.94	0.69			
4	11:31	6.51	122	276	2.00	0.83			
5	11:34	6.50	106	275	2.00	0.86			
6	11:37	6.49	67.0	271	2.02	0.92			
7	11:40	6.47	53.6	265	2.02	0.97			
8	11:48	6.46	53.0	263	2.02	0.99			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-9D	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP	Product Elevation (ft):	NP
Depth to Water (ft):	16.75		
Depth to Bottom (ft):	46.60		
Height of Water Column (ft):	29.85	Well Diameter (in):	2
Standing Water Volume (gal):	19.40	Calculated Purge Volume (gal):	
Sample Date:	10/31/2017	Begin Purge Time:	11:51
Sample Time:	12:05	Complete Purge Time:	12:03
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	12
Actual Purge Volume (gal):	1.2	Casing Volumes Removed:	N/A
Sample Appearance:	clear	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	11:51	6.00	203	256	0.034	6.99			
2	11:54	6.13	152	288	0.113	6.50			
3	11:57	6.24	0.0	330	0.275	6.75			
4	12:00	6.24	0.0	333	0.275	6.69			
5	12:03	6.24	0.0	340	0.28	6.70			

Take readings every three minutes

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW-10	Sampled By:	NR
Site Address:	1 Shore Road, Glenwood Landing, NY	Project Manager:	John Eichler
Project Name:	Former Penetrex Processing Facility	Project Number:	PEN1101

		Well Use:	Monitoring/Observation
Depth to Product (ft):	NP		
Depth to Water (ft):	15.71		
Depth to Bottom (ft):	21.83		
Height of Water Column (ft):	6.12	Well Diameter (in):	2
Standing Water Volume (gal):	3.98	Calculated Purge Volume (gal):	N/A
Sample Date:	10/31/2017	Begin Purge Time:	10:53
Sample Time:	11:11	Complete Purge Time:	11:11
Purge Method:	Low Flow - Grundfos	Sample Method:	Low Flow - Grundfos
Purge Rate (gpm):	0.10	Purge Time (min):	18
Actual Purge Volume (gal):	1.8	Casing Volumes Removed:	N/A
Sample Appearance:	very turbid brown	Odors Observed:	None
Analytical Laboratory:	Alpha Analytical	Notes:	Silty not clearing up
Date Shipped:	10/31/2017		
Analyses Requested:			
NYTCL-8260			

Field Indicator Parameters

Reading	Time	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L			
1	10:53	6.46	**	232	0.761	10.08			
2	10:56	6.46	**	227	0.707	8.10			
3	10:59	6.46	**	230	0.737	7.14			
4	11:02	6.46	**	232	0.751	6.46			
5	11:05	6.46	**	230	0.751	6.32			
6	11:08	6.46	**	232	0.756	6.17			
7	11:11	6.46	**	232	0.752	6.14			

Take readings every three minutes

**turbidity out of range of instrument

APPENDIX D
Laboratory Reports

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L1739725

Table of Contents

Table of Contents

Project Name: PEN1101
Project Number: PEN1101

Lab Number: L1739725
Report Date: 11/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1739725-01	MW-7	WATER	Not Specified	10/30/17 11:10	10/31/17
L1739725-02	MW-8	WATER	Not Specified	10/30/17 11:30	10/31/17
L1739725-03	MW-8D	WATER	Not Specified	10/30/17 12:00	10/31/17
L1739725-04	MW-10	WATER	Not Specified	10/31/17 11:11	10/31/17
L1739725-05	MW-9	WATER	Not Specified	10/31/17 11:45	10/31/17
L1739725-06	MW-9D	WATER	Not Specified	10/31/17 12:05	10/31/17
L1739725-07	MW-2	WATER	Not Specified	10/31/17 12:35	10/31/17
L1739725-08	MW-4	WATER	Not Specified	10/31/17 13:10	10/31/17
L1739725-09	MW-5	WATER	Not Specified	10/31/17 13:40	10/31/17
L1739725-10	MW-3	WATER	Not Specified	10/31/17 14:05	10/31/17
L1739725-11	MW-11	WATER	Not Specified	10/31/17 14:30	10/31/17
L1739725-12	DUPE	WATER	Not Specified	10/31/17 00:00	10/31/17
L1739725-13	TRIP BLANK	WATER	Not Specified	10/31/17 00:00	10/31/17

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.

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.

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: Melissa Cripps Melissa Cripps Report Date: 11/09/17

Title: Technical Director/Representative

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

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.

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

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

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

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.

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

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 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.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:
Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB

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

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

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

EPH

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (ECD):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L1739725

Account Name : P. W. Grosser
Project Number : PEN1101
Project Name : PEN1101

Received : 31-OCT-2017
Reviewer : John Knoud

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.2	

Condition Information

All samples on COC received?	**YES**
Extra samples received?	**NO**
Are there any sample container discrepancies?	**NO**
Are there any discrepancies between sample labels & COC?	**NO**
Are samples in appropriate containers for requested analysis?	**YES**
Are samples properly preserved for requested analysis?	**YES**
Are samples within holding time for requested analysis?	**YES**
All sampling equipment returned?	**NA**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 09 2017, 12:44 pm

Login Number: L1739725
Account: PWGROSSER P. W. GrosserProject: PEN1101
Received: 31OCT17 Due Date: 09NOV17

Sample #	Client ID	Mat	PR	Collected	Container
L1739725-01	MW-7		1	S0 30OCT17 11:10	9-Vial-B
L1739725-01 MSD L1739725-01 MS ASP-B Package Due Date: 11/09/17					
ASP-B,MS/MSD,NYTCL-8260					
L1739725-02	MW-8		1	S0 30OCT17 11:30	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-03	MW-8D		1	S0 30OCT17 12:00	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-04	MW-10		1	S0 31OCT17 11:11	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-05	MW-9		1	S0 31OCT17 11:45	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-06	MW-9D		1	S0 31OCT17 12:05	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-07	MW-2		1	S0 31OCT17 12:35	3-Vial-B
| Package Due Date: 11/09/17					

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 09 2017, 12:44 pm

Login Number: L1739725
Account: PWGROSSER P. W. GrosserProject: PEN1101
Received: 31OCT17 Due Date: 09NOV17

Sample #	Client ID	Mat	PR	Collected	Container
NYTCL-8260					
L1739725-08	MW-4		1	S0 31OCT17 13:10	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-09	MW-5		1	S0 31OCT17 13:40	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-10	MW-3		1	S0 31OCT17 14:05	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-11	MW-11		1	S0 31OCT17 14:30	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-12	DUPE		1	S0 31OCT17 00:00	3-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					
L1739725-13	TRIP BLANK		1	S0 31OCT17 00:00	2-Vial-B
| Package Due Date: 11/09/17					
NYTCL-8260					

Logged By: Ethan Leighton

ALPHA

NEW YORK CHAIN OF CUSTODY

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 1 of 2

Date Rec'd in Lab: 11/1/17

ALPHA Job #: L1733725

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: PWGC
Address: 630 Johnson Ave #7
Bohemia NY 11716
Phone: 631-589-6353
Fax:
Email: Jonte@pwgsolar.com

Project Information

Project Name: PENI01
Project Location:
Project #
(Use Project name as Project #)
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard
Due Date:
Rush (only if pre approved)
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

ASP-A
ASP-B
EQuIS (1 File)
EQuIS (4 File)
Other

Regulatory Requirement

NY TOGS
NY Part 375
AWQ Standards
NY CP-51
NY Restricted Use
Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information

Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ
NY
Other:

Sample Filtration

Done
Lab to do
Preservation
Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Total Bottles
33725 - 01	MW-7 /MS/MSD	10-30	11:10	GW	NK	X	
02	MW-8	10-30	1130			X	
03	MW-8D	10-30	1200			X	
04	MW-10	10-31	11:11			X	
05	MW-1		11:45			X	
06	MW-5D		1205			X	
07	MW-2		1235			X	
08	MW-4		1310			X	
09	MW-5		1340			X	
10	MW-3		1405			X	

Preservative Code:
A = None
B = HCl
C = HNO3
D = H2SO4
E = NaOH
F = MeOH
G = NaHSO4
H = Na2S2O3
I = Ascorbic Acid
J = NH4Cl
K/E = Zn Acetate/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
	10-31 1700		11/1/17 1100
	10/31/17 1931		10/31 2115
	0935		11/1/17 0130

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

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: of

Date Rec'd in Lab: 11/1/17

ALPHA Job #: L1739725

Client Information
Client: PVGC
Address: 630 Johnson Rd Ste. 7 Bozeman, MT
Phone: 631-584-6353
Fax:
Email: JohnE@pwcorp.com

Project Information
Project Name: PEN1101
Project Location:
Project #
(Use Project name as Project #) ☒
Project Manager: John Eichler
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOCs

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Sample Specific Comments
1739725-11	MW-11	10-31	1430	GW	VK	X	
12	Dup	↓↓	↓↓	↓	↓	X	
13	Trip Blank			↓	↓	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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											

Relinquished By:	Date/Time	Received By:	Date/Time
	1700 10-31		10/31 17 1700
	10/31/17 1931		10/31 2130
	11/1 0730		11/1/17 0730

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.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Form 2
Surrogate Recovery
VOLATILES

Client: P. W. Grosser
Project Name: PEN1101

Lab Number: L1739725
Project Number: PEN1101
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-7 (L1739725-01)	113	107	108	97	0
MW-8 (L1739725-02)	110	107	109	98	0
MW-8D (L1739725-03)	110	108	110	96	0
MW-10 (L1739725-04)	110	96	92	101	0
MW-9 (L1739725-05D)	110	96	94	100	0
MW-9D (L1739725-06)	111	96	93	101	0
MW-2 (L1739725-07)	111	97	93	102	0
MW-4 (L1739725-08)	112	95	93	102	0
MW-5 (L1739725-09)	115	95	92	102	0
MW-3 (L1739725-10)	113	96	93	102	0
MW-11 (L1739725-11)	112	96	94	101	0
DUPE (L1739725-12)	114	95	93	102	0
TRIP BLANK (L1739725-13)	108	96	95	100	0
WG1060957-3LCS	110	95	94	101	0
WG1060957-4LCSD	113	98	96	101	0
WG1060957-5BLANK	111	96	94	101	0
WG1060967-3LCS	109	108	109	97	0
WG1060967-4LCSD	109	110	110	96	0
WG1060967-5BLANK	106	109	111	96	0
MW-7MS	109	109	107	96	0
MW-7MSD	107	108	107	94	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Matrix	: WATER		
LCS Sample ID	: WG1060957-3	**Analysis Date** : 11/08/17 08:10	**File ID** : V01171108A01
LCSD Sample ID	: WG1060957-4	**Analysis Date** : 11/08/17 08:38	**File ID** : V01171108A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	8.8	88	10	8.7	87	1	70-130	20
1,1-Dichloroethane	10	9.3	93	10	9.3	93	0	70-130	20
Chloroform	10	9.6	96	10	9.3	93	3	70-130	20
Carbon tetrachloride	10	9.4	94	10	9.4	94	0	63-132	20
1,2-Dichloropropane	10	9.7	97	10	9.5	95	2	70-130	20
Dibromochloromethane	10	8.7	87	10	8.6	86	1	63-130	20
1,1,2-Trichloroethane	10	9.1	91	10	8.8	88	3	70-130	20
Tetrachloroethene	10	9.0	90	10	9.0	90	0	70-130	20
Chlorobenzene	10	9.3	93	10	9.2	92	1	75-130	20
Trichlorofluoromethane	10	9.2	92	10	9.5	95	3	62-150	20
1,2-Dichloroethane	10	10.	100	10	10.	100	0	70-130	20
1,1,1-Trichloroethane	10	9.6	96	10	9.6	96	0	67-130	20
Bromodichloromethane	10	9.8	98	10	9.5	95	3	67-130	20
trans-1,3-Dichloropropene	10	8.4	84	10	8.4	84	0	70-130	20
cis-1,3-Dichloropropene	10	9.2	92	10	8.9	89	3	70-130	20
1,1-Dichloropropene	10	9.4	94	10	9.2	92	2	70-130	20
Bromoform	10	8.5	85	10	8.5	85	0	54-136	20
1,1,2,2-Tetrachloroethane	10	8.7	87	10	8.6	86	1	67-130	20
Benzene	10	9.1	91	10	9.0	90	1	70-130	20
Toluene	10	8.9	89	10	8.9	89	0	70-130	20
Ethylbenzene	10	9.4	94	10	9.4	94	0	70-130	20
Chloromethane	10	8.1	81	10	8.1	81	0	64-130	20
Bromomethane	10	4.6	46	10	5.7	57	21 Q	39-139	20
Vinyl chloride	10	8.1	81	10	8.3	83	2	55-140	20
Chloroethane	10	9.5	95	10	9.6	96	1	55-138	20
1,1-Dichloroethene	10	8.5	85	10	8.7	87	2	61-145	20
trans-1,2-Dichloroethene	10	8.8	88	10	8.7	87	1	70-130	20
Trichloroethene	10	9.5	95	10	9.6	96	1	70-130	20

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Matrix	: WATER		
LCS Sample ID	: WG1060957-3	**Analysis Date** : 11/08/17 08:10	**File ID** : V01171108A01
LCSD Sample ID	: WG1060957-4	**Analysis Date** : 11/08/17 08:38	**File ID** : V01171108A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dichlorobenzene	10	9.1	91	10	9.2	92	1	70-130	20
1,3-Dichlorobenzene	10	9.3	93	10	9.3	93	0	70-130	20
1,4-Dichlorobenzene	10	9.2	92	10	9.3	93	1	70-130	20
Methyl tert butyl ether	10	8.7	87	10	8.5	85	2	63-130	20
p/m-Xylene	20	19.	95	20	19.	95	0	70-130	20
o-Xylene	20	20.	100	20	20.	100	0	70-130	20
cis-1,2-Dichloroethene	10	9.0	90	10	9.2	92	2	70-130	20
Dibromomethane	10	9.8	98	10	9.3	93	5	70-130	20
1,2,3-Trichloropropane	10	8.9	89	10	9.2	92	3	64-130	20
Acrylonitrile	10	9.6	96	10	9.0	90	6	70-130	20
Styrene	20	19.	95	20	19.	95	0	70-130	20
Dichlorodifluoromethane	10	8.6	86	10	8.8	88	2	36-147	20
Acetone	10	9.1	91	10	8.4	84	8	58-148	20
Carbon disulfide	10	7.9	79	10	7.8	78	1	51-130	20
2-Butanone	10	8.4	84	10	8.2	82	2	63-138	20
Vinyl acetate	10	8.0	80	10	7.4	74	8	70-130	20
4-Methyl-2-pentanone	10	8.9	89	10	8.8	88	1	59-130	20
2-Hexanone	10	9.2	92	10	9.2	92	0	57-130	20
Bromochloromethane	10	9.4	94	10	9.3	93	1	70-130	20
2,2-Dichloropropane	10	9.1	91	10	9.1	91	0	63-133	20
1,2-Dibromoethane	10	9.0	90	10	8.7	87	3	70-130	20
1,3-Dichloropropane	10	9.1	91	10	9.0	90	1	70-130	20
1,1,1,2-Tetrachloroethane	10	9.0	90	10	8.9	89	1	64-130	20
Bromobenzene	10	9.0	90	10	8.9	89	1	70-130	20
n-Butylbenzene	10	9.6	96	10	9.6	96	0	53-136	20
sec-Butylbenzene	10	9.4	94	10	9.5	95	1	70-130	20
tert-Butylbenzene	10	9.2	92	10	9.2	92	0	70-130	20
o-Chlorotoluene	10	9.4	94	10	9.3	93	1	70-130	20

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Matrix	: WATER		
LCS Sample ID	: WG1060957-3	**Analysis Date** : 11/08/17 08:10	**File ID** : V01171108A01
LCSD Sample ID	: WG1060957-4	**Analysis Date** : 11/08/17 08:38	**File ID** : V01171108A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
p-Chlorotoluene	10	9.2	92	10	9.3	93	1	70-130	20
1,2-Dibromo-3-chloropropane	10	8.0	80	10	7.8	78	3	41-144	20
Hexachlorobutadiene	10	8.6	86	10	9.5	95	10	63-130	20
Isopropylbenzene	10	9.2	92	10	9.3	93	1	70-130	20
p-Isopropyltoluene	10	9.4	94	10	9.4	94	0	70-130	20
Naphthalene	10	8.5	85	10	9.0	90	6	70-130	20
n-Propylbenzene	10	9.4	94	10	9.5	95	1	69-130	20
1,2,3-Trichlorobenzene	10	8.6	86	10	9.2	92	7	70-130	20
1,2,4-Trichlorobenzene	10	8.7	87	10	9.1	91	4	70-130	20
1,3,5-Trimethylbenzene	10	9.2	92	10	9.2	92	0	64-130	20
1,2,4-Trimethylbenzene	10	9.2	92	10	9.3	93	1	70-130	20
1,4-Dioxane	500	280	56	500	410	82	38 Q	56-162	20
p-Diethylbenzene	10	9.3	93	10	9.5	95	2	70-130	20
p-Ethyltoluene	10	9.5	95	10	9.5	95	0	70-130	20
1,2,4,5-Tetramethylbenzene	10	9.2	92	10	9.4	94	2	70-130	20
Ethyl ether	10	8.2	82	10	8.2	82	0	59-134	20
trans-1,4-Dichloro-2-butene	10	7.4	74	10	8.6	86	15	70-130	20

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Matrix	: WATER		
LCS Sample ID	: WG1060967-3	**Analysis Date** : 11/08/17 08:07	**File ID** : V22171108A02
LCSD Sample ID	: WG1060967-4	**Analysis Date** : 11/08/17 08:35	**File ID** : V22171108A03

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	10	8.7	87		10	8.4	84		4	70-130	20
1,1-Dichloroethane	10	9.6	96		10	9.1	91		5	70-130	20
Chloroform	10	8.9	89		10	8.7	87		2	70-130	20
Carbon tetrachloride	10	9.4	94		10	9.0	90		4	63-132	20
1,2-Dichloropropane	10	9.5	95		10	9.2	92		3	70-130	20
Dibromochloromethane	10	8.6	86		10	8.5	85		1	63-130	20
1,1,2-Trichloroethane	10	9.2	92		10	9.3	93		1	70-130	20
Tetrachloroethene	10	8.2	82		10	8.0	80		2	70-130	20
Chlorobenzene	10	9.1	91		10	8.9	89		2	75-130	20
Trichlorofluoromethane	10	9.7	97		10	9.2	92		5	62-150	20
1,2-Dichloroethane	10	9.6	96		10	9.3	93		3	70-130	20
1,1,1-Trichloroethane	10	8.9	89		10	8.5	85		5	67-130	20
Bromodichloromethane	10	8.9	89		10	8.5	85		5	67-130	20
trans-1,3-Dichloropropene	10	9.0	90		10	9.0	90		0	70-130	20
cis-1,3-Dichloropropene	10	8.4	84		10	8.1	81		4	70-130	20
1,1-Dichloropropene	10	9.0	90		10	8.6	86		5	70-130	20
Bromoform	10	5.6	56		10	5.6	56		0	54-136	20
1,1,2,2-Tetrachloroethane	10	9.7	97		10	9.7	97		0	67-130	20
Benzene	10	9.5	95		10	9.0	90		5	70-130	20
Toluene	10	9.6	96		10	9.4	94		2	70-130	20
Ethylbenzene	10	9.4	94		10	9.3	93		1	70-130	20
Chloromethane	10	8.5	85		10	8.4	84		1	64-130	20
Bromomethane	10	3.5	35	Q	10	3.4	34	Q	3	39-139	20
Vinyl chloride	10	10.	100		10	9.9	99		1	55-140	20
Chloroethane	10	11.	110		10	10.	100		10	55-138	20
1,1-Dichloroethene	10	8.5	85		10	8.1	81		5	61-145	20
trans-1,2-Dichloroethene	10	8.5	85		10	8.1	81		5	70-130	20
Trichloroethene	10	9.0	90		10	8.6	86		5	70-130	20

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Matrix	: WATER		
LCS Sample ID	: WG1060967-3	**Analysis Date** : 11/08/17 08:07	**File ID** : V22171108A02
LCSD Sample ID	: WG1060967-4	**Analysis Date** : 11/08/17 08:35	**File ID** : V22171108A03

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
1,2-Dichlorobenzene	10	9.2	92		10	9.3	93		1	70-130	20
1,3-Dichlorobenzene	10	9.6	96		10	9.4	94		2	70-130	20
1,4-Dichlorobenzene	10	9.5	95		10	9.2	92		3	70-130	20
Methyl tert butyl ether	10	8.1	81		10	7.8	78		4	63-130	20
p/m-Xylene	20	19.	95		20	18.	90		5	70-130	20
o-Xylene	20	21.	105		20	21.	105		0	70-130	20
cis-1,2-Dichloroethene	10	8.6	86		10	8.2	82		5	70-130	20
Dibromomethane	10	11.	110		10	11.	110		0	70-130	20
1,2,3-Trichloropropane	10	10.	100		10	9.9	99		1	64-130	20
Acrylonitrile	10	9.6	96		10	9.6	96		0	70-130	20
Styrene	20	8.8	44	Q	20	8.9	44	Q	0	70-130	20
Dichlorodifluoromethane	10	11.	110		10	11.	110		0	36-147	20
Acetone	10	9.0	90		10	9.2	92		2	58-148	20
Carbon disulfide	10	8.8	88		10	8.4	84		5	51-130	20
2-Butanone	10	10.	100		10	10.	100		0	63-138	20
Vinyl acetate	10	9.8	98		10	9.5	95		3	70-130	20
4-Methyl-2-pentanone	10	9.0	90		10	9.3	93		3	59-130	20
2-Hexanone	10	9.8	98		10	10.	100		2	57-130	20
Bromochloromethane	10	8.8	88		10	8.4	84		5	70-130	20
2,2-Dichloropropane	10	9.3	93		10	8.9	89		4	63-133	20
1,2-Dibromoethane	10	8.4	84		10	8.4	84		0	70-130	20
1,3-Dichloropropane	10	9.5	95		10	9.4	94		1	70-130	20
1,1,1,2-Tetrachloroethane	10	8.8	88		10	8.6	86		2	64-130	20
Bromobenzene	10	8.6	86		10	8.7	87		1	70-130	20
n-Butylbenzene	10	11.	110		10	10.	100		10	53-136	20
sec-Butylbenzene	10	10.	100		10	10.	100		0	70-130	20
tert-Butylbenzene	10	12.	120		10	12.	120		0	70-130	20
o-Chlorotoluene	10	10.	100		10	10.	100		0	70-130	20

Laboratory Control Sample
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Matrix	: WATER		
LCS Sample ID	: WG1060967-3	**Analysis Date** : 11/08/17 08:07	**File ID** : V22171108A02
LCSD Sample ID	: WG1060967-4	**Analysis Date** : 11/08/17 08:35	**File ID** : V22171108A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
p-Chlorotoluene	10	10.	100	10	10.	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	7.5	75	10	7.7	77	3	41-144	20
Hexachlorobutadiene	10	6.5	65	10	6.1	61 Q	6	63-130	20
Isopropylbenzene	10	10.	100	10	10.	100	0	70-130	20
p-Isopropyltoluene	10	10.	100	10	10.	100	0	70-130	20
Naphthalene	10	8.1	81	10	8.2	82	1	70-130	20
n-Propylbenzene	10	10.	100	10	10.	100	0	69-130	20
1,2,3-Trichlorobenzene	10	7.0	70	10	7.0	70	0	70-130	20
1,2,4-Trichlorobenzene	10	7.4	74	10	7.3	73	1	70-130	20
1,3,5-Trimethylbenzene	10	10.	100	10	10.	100	0	64-130	20
1,2,4-Trimethylbenzene	10	13.	130	10	12.	120	8	70-130	20
1,4-Dioxane	500	460	92	500	400	80	14	56-162	20
p-Diethylbenzene	10	10.	100	10	9.9	99	1	70-130	20
p-Ethyltoluene	10	10.	100	10	10.	100	0	70-130	20
1,2,4,5-Tetramethylbenzene	10	9.5	95	10	9.4	94	1	70-130	20
Ethyl ether	10	8.1	81	10	8.1	81	0	59-134	20
trans-1,4-Dichloro-2-butene	10	7.8	78	10	8.2	82	5	70-130	20

Matrix Spike
Form 3

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Client Sample ID	: MW-7	Matrix	: WATER
Lab Sample ID	: L1739725-01	Analysis Date	: 11/08/17 15:56
Matrix Spike	: WG1060967-6	MS Analysis Date	: 11/08/17 16:24
Matrix Spike Dup	: WG1060967-7	MSD Analysis Date	: 11/08/17 16:51

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	9.4	94		10	9.5	95		1	70-130	20
1,1-Dichloroethane	ND	10	11.	110		10	11.	110		0	70-130	20
Chloroform	ND	10	10.	100		10	10.	100		0	70-130	20
Carbon tetrachloride	ND	10	10.	100		10	11.	110		10	63-132	20
1,2-Dichloropropane	ND	10	10.	100		10	10.	100		0	70-130	20
Dibromochloromethane	ND	10	9.3	93		10	9.1	91		2	63-130	20
1,1,2-Trichloroethane	ND	10	10.	100		10	9.7	97		3	70-130	20
Tetrachloroethene	98	10	120	220	Q	10	100	20	Q	18	70-130	20
Chlorobenzene	ND	10	9.9	99		10	10.	100		1	75-130	20
Trichlorofluoromethane	ND	10	11.	110		10	11.	110		0	62-150	20
1,2-Dichloroethane	ND	10	10.	100		10	10.	100		0	70-130	20
1,1,1-Trichloroethane	ND	10	10.	100		10	10.	100		0	67-130	20
Bromodichloromethane	ND	10	9.4	94		10	9.4	94		0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.4	94		10	9.2	92		2	70-130	20
cis-1,3-Dichloropropene	ND	10	8.6	86		10	8.7	87		1	70-130	20
1,1-Dichloropropene	ND	10	9.9	99		10	10.	100		1	70-130	20
Bromoform	ND	10	6.0	60		10	5.7	57		5	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	10.	100		10	10.	100		0	67-130	20
Benzene	ND	10	10.	100		10	10.	100		0	70-130	20
Toluene	ND	10	10.	100		10	11.	110		10	70-130	20
Ethylbenzene	ND	10	10.	100		10	10.	100		0	70-130	20
Chloromethane	ND	10	10.	100		10	10.	100		0	64-130	20
Bromomethane	ND	10	3.6	36	Q	10	4.2	42		15	39-139	20
Vinyl chloride	ND	10	12.	120		10	12.	120		0	55-140	20

Matrix Spike
Form 3

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Client Sample ID	: MW-7	Matrix	: WATER
Lab Sample ID	: L1739725-01	Analysis Date	: 11/08/17 15:56
Matrix Spike	: WG1060967-6	MS Analysis Date	: 11/08/17 16:24
Matrix Spike Dup	: WG1060967-7	MSD Analysis Date	: 11/08/17 16:51

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Chloroethane	ND	10	14.	140	Q	10	14.	140	Q	0	55-138	20
1,1-Dichloroethene	ND	10	9.4	94		10	9.7	97		3	61-145	20
trans-1,2-Dichloroethene	ND	10	9.4	94		10	9.6	96		2	70-130	20
Trichloroethene	1.0	10	11.	100		10	11.	100		0	70-130	20
1,2-Dichlorobenzene	ND	10	9.9	99		10	10.	100		1	70-130	20
1,3-Dichlorobenzene	ND	10	10.	100		10	10.	100		0	70-130	20
1,4-Dichlorobenzene	ND	10	10.	100		10	10.	100		0	70-130	20
Methyl tert butyl ether	ND	10	8.6	86		10	8.4	84		2	63-130	20
p/m-Xylene	ND	20	20.	100		20	20.	100		0	70-130	20
o-Xylene	ND	20	24.	120		20	24.	120		0	70-130	20
cis-1,2-Dichloroethene	ND	10	9.4	94		10	9.6	96		2	70-130	20
Dibromomethane	ND	10	12.	120		10	12.	120		0	70-130	20
1,2,3-Trichloropropane	ND	10	10.	100		10	10.	100		0	64-130	20
Acrylonitrile	ND	10	9.9	99		10	9.7	97		2	70-130	20
Styrene	ND	20	7.1	36	Q	20	7.3	36	Q	3	70-130	20
Dichlorodifluoromethane	ND	10	12.	120		10	12.	120		0	36-147	20
Acetone	ND	10	11.	110		10	10.	100		10	58-148	20
Carbon disulfide	ND	10	9.5	95		10	9.9	99		4	51-130	20
2-Butanone	ND	10	10.	100		10	10.	100		0	63-138	20
Vinyl acetate	ND	10	9.5	95		10	9.3	93		2	70-130	20
4-Methyl-2-pentanone	ND	10	10.	100		10	10.	100		0	59-130	20
2-Hexanone	ND	10	10.	100		10	9.8	98		2	57-130	20
Bromochloromethane	ND	10	9.4	94		10	9.4	94		0	70-130	20
2,2-Dichloropropane	ND	10	9.3	93		10	9.4	94		1	63-133	20

Matrix Spike
Form 3

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Client Sample ID	: MW-7	Matrix	: WATER
Lab Sample ID	: L1739725-01	Analysis Date	: 11/08/17 15:56
Matrix Spike	: WG1060967-6	MS Analysis Date	: 11/08/17 16:24
Matrix Spike Dup	: WG1060967-7	MSD Analysis Date	: 11/08/17 16:51

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dibromoethane	ND	10	8.9	89	10	8.8	88	1	70-130	20
1,3-Dichloropropane	ND	10	10.	100	10	10.	100	0	70-130	20
1,1,1,2-Tetrachloroethane	ND	10	10.	100	10	9.7	97	3	64-130	20
Bromobenzene	ND	10	9.5	95	10	9.4	94	1	70-130	20
n-Butylbenzene	ND	10	11.	110	10	11.	110	0	53-136	20
sec-Butylbenzene	ND	10	11.	110	10	11.	110	0	70-130	20
tert-Butylbenzene	ND	10	13.	130	10	13.	130	0	70-130	20
o-Chlorotoluene	ND	10	11.	110	10	12.	120	9	70-130	20
p-Chlorotoluene	ND	10	11.	110	10	11.	110	0	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	7.6	76	10	7.4	74	3	41-144	20
Hexachlorobutadiene	ND	10	6.4	64	10	6.4	64	0	63-130	20
Isopropylbenzene	ND	10	11.	110	10	11.	110	0	70-130	20
p-Isopropyltoluene	ND	10	11.	110	10	11.	110	0	70-130	20
Naphthalene	ND	10	8.4	84	10	8.2	82	2	70-130	20
n-Propylbenzene	ND	10	11.	110	10	11.	110	0	69-130	20
1,2,3-Trichlorobenzene	ND	10	7.4	74	10	7.4	74	0	70-130	20
1,2,4-Trichlorobenzene	ND	10	7.7	77	10	7.9	79	3	70-130	20
1,3,5-Trimethylbenzene	ND	10	11.	110	10	11.	110	0	64-130	20
1,2,4-Trimethylbenzene	ND	10	13.	130	10	13.	130	0	70-130	20
1,4-Dioxane	ND	500	180J	36 Q	500	350	70	64 Q	56-162	20
p-Diethylbenzene	ND	10	11.	110	10	11.	110	0	70-130	20
p-Ethyltoluene	ND	10	11.	110	10	11.	110	0	70-130	20
1,2,4,5-Tetramethylbenzene	ND	10	9.2	92	10	9.1	91	1	70-130	20
Ethyl ether	ND	10	8.6	86	10	8.7	87	1	59-134	20

Matrix Spike
Form 3

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Client Sample ID	: MW-7	**Matrix**	: WATER
Lab Sample ID	: L1739725-01	**Analysis Date**	: 11/08/17 15:56
Matrix Spike	: WG1060967-6	**MS Analysis Date**	: 11/08/17 16:24
Matrix Spike Dup	: WG1060967-7	**MSD Analysis Date**	: 11/08/17 16:51

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
trans-1,4-Dichloro-2-butene	ND	10	7.0	70	10	7.0	70	0	70-130	20

Method Blank Summary
Form 4

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Lab Sample ID	: WG1060967-5	**Lab File ID**	: V22171108A05
Instrument ID	: VOA122		
Matrix	: WATER	**Analysis Date**	: 11/08/17 09:30

Client Sample No.	Lab Sample ID	Analysis Date
WG1060967-3LCS	WG1060967-3	11/08/17 08:07
WG1060967-4LCSD	WG1060967-4	11/08/17 08:35
MW-8	L1739725-02	11/08/17 15:01
MW-8D	L1739725-03	11/08/17 15:28
MW-7	L1739725-01	11/08/17 15:56
MW-7MS	WG1060967-6	11/08/17 16:24
MW-7MSD	WG1060967-7	11/08/17 16:51

Method Blank Summary
Form 4

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Lab Sample ID	: WG1060957-5	**Lab File ID**	: V01171108A04
Instrument ID	: VOA101		
Matrix	: WATER	**Analysis Date**	: 11/08/17 09:35

Client Sample No.	Lab Sample ID	Analysis Date
WG1060957-3LCS	WG1060957-3	11/08/17 08:10
WG1060957-4LCSD	WG1060957-4	11/08/17 08:38
MW-10	L1739725-04	11/08/17 10:31
MW-9	L1739725-05D	11/08/17 10:59
MW-9D	L1739725-06	11/08/17 11:55
MW-2	L1739725-07	11/08/17 12:54
MW-4	L1739725-08	11/08/17 13:22
MW-5	L1739725-09	11/08/17 13:50
MW-3	L1739725-10	11/08/17 14:19
MW-11	L1739725-11	11/08/17 14:47
DUPE	L1739725-12	11/08/17 15:15
TRIP BLANK	L1739725-13	11/08/17 15:43

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Instrument ID	: VOA122	**Analysis Date**	: 08/04/17 19:28
Tune Standard	: WG1029271-1	**Tune File ID**	: V22170804ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	45.8
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	0.8 (.9)1
174	Greater than 50.0 of mass 95	94.1
175	5.0 - 9.0% of mass 174	6.8 (7.2)1
176	95.0 - 101% of mass 174	90.6 (96.3)1
177	5.0 - 9.0% of mass 176	6 (6.6)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
STDL11	R990883-1	V22170804A03	08/04/17 20:41
STDL1	R990883-2	V22170804A04	08/04/17 21:08
STDL2	R990883-3	V22170804A07	08/04/17 22:31
STDL3	R990883-4	V22170804A08	08/04/17 22:58
STDL4	R990883-5	V22170804A09	08/04/17 23:26
STDL6	R990883-6	V22170804A10	08/04/17 23:54
STDL8	R990883-8	V22170804A11	08/05/17 00:21
STDL10	R990883-7	V22170804A12	08/05/17 00:48
ICV Quant Report	R990883-9	V22170804A18	08/05/17 03:34

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Instrument ID	: VOA122	**Analysis Date**	: 11/08/17 07:21
Tune Standard	: WG1060967-1	**Tune File ID**	: V22171108ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	50
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.2 (1.5)1
174	Greater than 50.0 of mass 95	82.6
175	5.0 - 9.0% of mass 174	6.6 (8)1
176	95.0 - 101% of mass 174	79.4 (96.1)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)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
WG1060967-2CCAL	WG1060967-2	V22171108A02	11/08/17 08:07
WG1060967-3LCS	WG1060967-3	V22171108A02	11/08/17 08:07
WG1060967-4LCSD	WG1060967-4	V22171108A03	11/08/17 08:35
WG1060967-5BLANK	WG1060967-5	V22171108A05	11/08/17 09:30
MW-8	L1739725-02	V22171108A17	11/08/17 15:01
MW-8D	L1739725-03	V22171108A18	11/08/17 15:28
MW-7	L1739725-01	V22171108A19	11/08/17 15:56
WG1060967-6MS	WG1060967-6	V22171108A20	11/08/17 16:24
WG1060967-7MSD	WG1060967-7	V22171108A21	11/08/17 16:51

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Instrument ID	: VOA101	**Analysis Date**	: 09/28/17 20:05
Tune Standard	: WG1047540-1	**Tune File ID**	: V01170928BF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	0.3 (.4)1
174	Greater than 50.0 of mass 95	63.8
175	5.0 - 9.0% of mass 174	4.4 (7)1
176	95.0 - 101% of mass 174	61 (95.6)1
177	5.0 - 9.0% of mass 176	4 (6.6)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
ISTD L11	R1007897-1	V01170928A03	09/28/17 21:33
ISTD L1	R1007897-2	V01170928A05	09/28/17 22:29
ISTD L2	R1007897-3	V01170928A07	09/28/17 23:26
ISTD L3	R1007897-4	V01170928A08	09/28/17 23:55
ISTD L4	R1007897-5	V01170928A09	09/29/17 00:23
ISTD L6	R1007897-6	V01170928A10	09/29/17 00:51
ISTD L8	R1007897-7	V01170928A11	09/29/17 01:20
ISTD L10	R1007897-8	V01170928A12	09/29/17 01:48
ICV Quant Report	R1007897-9	V01170928A19	09/29/17 05:07

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Instrument ID	: VOA101	**Analysis Date**	: 11/08/17 07:50
Tune Standard	: WG1060957-1	**Tune File ID**	: V01171108ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	26.5
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.5)1
174	Greater than 50.0 of mass 95	64.8
175	5.0 - 9.0% of mass 174	4.8 (7.5)1
176	95.0 - 101% of mass 174	64.1 (99)1
177	5.0 - 9.0% of mass 176	4.4 (6.8)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
WG1060957-2CCAL	WG1060957-2	V01171108A01	11/08/17 08:10
WG1060957-3LCS	WG1060957-3	V01171108A01	11/08/17 08:10
WG1060957-4LCSD	WG1060957-4	V01171108A02	11/08/17 08:38
WG1060957-5BLANK	WG1060957-5	V01171108A04	11/08/17 09:35
MW-10	L1739725-04	V01171108A06	11/08/17 10:31
MW-9	L1739725-05D	V01171108A07	11/08/17 10:59
MW-9D	L1739725-06	V01171108A09	11/08/17 11:55
MW-2	L1739725-07	V01171108A11	11/08/17 12:54
MW-4	L1739725-08	V01171108A12	11/08/17 13:22
MW-5	L1739725-09	V01171108A13	11/08/17 13:50
MW-3	L1739725-10	V01171108A14	11/08/17 14:19
MW-11	L1739725-11	V01171108A15	11/08/17 14:47
DUPE	L1739725-12	V01171108A16	11/08/17 15:15
TRIP BLANK	L1739725-13	V01171108A17	11/08/17 15:43

Internal Standard Area and RT Summary
Form 8

Client	: P. W. Grosser	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Instrument ID	: VOA122	**Analysis Date**	: 11/08/17 08:07
Sample No	: WG1060967-2	**Lab File ID**	: V22171108A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1060967-2	269066	6.09	210100	9.65	107092	12.34
Upper Limit	538132	6.59	420200	10.15	214184	12.84
Lower Limit	134533	5.59	105050	9.15	53546	11.84
Sample ID						
WG1060967-3 LCS	269066	6.09	210100	9.65	107092	12.34
WG1060967-4 LCSD	273510	6.09	209238	9.65	107235	12.34
WG1060967-5 BLANK	260473	6.09	197411	9.65	93562	12.34
MW-8	244645	6.09	187658	9.65	90761	12.34
MW-8D	241709	6.09	184803	9.65	87698	12.34
MW-7	239411	6.09	185999	9.65	90213	12.34
MW-7 MS	238426	6.09	183934	9.65	94581	12.34
MW-7 MSD	245763	6.09	191903	9.65	98697	12.34

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	**Lab Number**	: L1739725
Project Name	: PEN1101	**Project Number**	: PEN1101
Instrument ID	: VOA101	**Analysis Date**	: 11/08/17 08:10
Sample No	: WG1060957-2	**Lab File ID**	: V01171108A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1060957-2	327258	5.87	249731	9.67	115791	12.59
Upper Limit	654516	6.37	499462	10.17	231582	13.09
Lower Limit	163629	5.37	124866	9.17	57896	12.09
Sample ID						
WG1060957-3 LCS	327258	5.87	249731	9.67	115791	12.59
WG1060957-4 LCSD	329084	5.87	245066	9.68	112484	12.59
WG1060957-5 BLANK	316608	5.87	237397	9.68	109134	12.60
MW-10	315585	5.87	237695	9.68	110259	12.60
MW-9	309349	5.87	232770	9.68	107543	12.60
MW-9D	309586	5.87	234088	9.68	108463	12.60
MW-2	307941	5.87	231654	9.68	108476	12.60
MW-4	304416	5.87	231519	9.68	107361	12.60
MW-5	305451	5.87	232687	9.68	110055	12.60
MW-3	306146	5.88	229012	9.68	106409	12.59
MW-11	301799	5.87	230376	9.68	106744	12.60
DUPE	301418	5.87	230553	9.68	107537	12.60
TRIP BLANK	296823	5.88	221880	9.68	101106	12.59

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

Date Created: 08/11/17
Created By: Jason Hebert
File: PM3913-1
Page: 1

Volatile Organics - EPA 8260C (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
2-Chloroethylvinyl ether	110-75-8	10	0.402	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			

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Volatile Organics - EPA 8260C (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
Iodomethane	74-88-4	5	0.398	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrolein	107-02-8	5	0.441	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.834	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Halothane	151-67-7	2.5	0.287	ug/l	70-130	20	70-130	30	30			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			

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Volatile Organics - EPA 8260C (WATER)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Acetonitrile	75-05-8	20	20	ug/l	70-130	20	70-130	20	20			
n-Hexane	110-54-3	10	10	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Heptane	142-82-5	10	10	ug/l	70-130	20	70-130	20	20			
Butyl Acetate	123-86-4	10	10	ug/l	70-130	20	70-130	20	20			
tert-Butyl Alcohol	75-65-0	10	1.4	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			
Tertiary-Amyl Methyl Ether	994-05-8	2	0.278	ug/l	66-130	20	66-130	20	20			
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20			
Methyl Methacrylate	80-62-6	2.5	0.321	ug/l	70-130	20	70-130	20	20			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10	0.148	ug/l	70-130	20	70-130	20	20			
iso-Butyl Alcohol	78-83-1	10	3.97	ug/l	70-130	20	70-130	20	20			
Methyl cyclohexane	108-87-2	10	0.396	ug/l	70-130	20	70-130	20	20			
Ethyl Alcohol	GCDAI06	250	14.5	ug/l	70-130	20	70-130	20	20			
Methyl Isothiocyanate	556-61-6	2	2	ug/l	70-130	20	70-130	20	20			
2-Pentanone	107-87-9	2	2	ug/l	70-130	20	70-130	20	20			
iso-Propyl Alcohol	67-63-0	100	3.52	ug/l	70-130	20	70-130	20	20			
1,4-Diethylbenzene	105-05-5	2	0.392	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.34	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20			
sec-Butyl Alcohol	78-92-2	25	6.84	ug/l	70-130	20	70-130	20	20			
4-Penten-2-Ol	625-31-0	100	6.61	ug/l	70-130	20	70-130	20	20			
2-Methyl-2-Butanol	75-85-4	25	7.04	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-Pentanol	108-11-2	25	6.74	ug/l	70-130	20	70-130	20	20			
n-Butyl Alcohol	71-36-3	100	8.02	ug/l	70-130	20	70-130	20	20			
Chloropicrin	76-06-02	20	2.95	ug/l	70-130	20	70-130	20	20			
Pentachloroethane	76-01-7	2	0.589	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Volatile Organics - EPA 8260C/5035 High (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	500	55.2	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	75	4.28	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	18.5	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	10.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	175	11.4	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.68	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	75	15.2	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	50	7.01	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	50	17.4	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	250	19.4	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	5.67	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	50	5.54	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	50	8.66	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	6.04	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	50	5.88	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	250	7.07	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	11.8	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	50	5.04	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	50	5.9	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	75	9.74	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	6.37	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	250	14.7	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	16.9	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	100	5.87	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	15.8	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	13.1	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	10.6	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	50	6.25	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	250	7.66	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	250	6.75	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	250	6.92	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	4.22	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	17.55	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	100	16.9	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30			
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	7.14	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30			
Dibromomethane	74-95-3	500	8.18	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C/5035 High (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	6.6	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	500	8.13	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	100	20.1	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	9.54	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	1800	51.8	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	55.1	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	13.6	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	6.61	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	12.2	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	33.3	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	7.73	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	25.7	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	250	13.8	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	1000	49.8	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	250	11.3	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	200	8.72	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	250	7.26	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	50	15.9	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	250	10.4	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	5.74	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	6.1	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	250	6.77	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	200	11.5	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	250	7.99	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	250	6.64	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	250	19.8	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	250	11.4	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.19	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	6.25	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	250	6.92	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	5.46	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	250	7.38	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	250	9.09	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	250	7.17	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	250	7.07	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	19.6	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	250	13	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	1000	13.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	1000	46.1	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	200	6.98	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	1000	7.3	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C/5035 High (SOIL)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	200	5.79	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	200	4.83	ug/kg	70-130	30	70-130	30	30			
Ethyl Alcohol	GCDAI06	50000	10500	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	5000	721	ug/kg	65-136	30	65-136	30	30			
Methyl cyclohexane	108-87-2	200	7.73	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1000	13.7	ug/kg	70-130	30	70-130	30	30			
1,4-Diethylbenzene	105-05-5	200	7.99	ug/kg	70-130	30	70-130	30	30			
4-Ethyltoluene	622-96-8	200	6.2	ug/kg	70-130	30	70-130	30	30			
1,2,4,5-Tetramethylbenzene	95-93-2	200	6.51	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	10	1.104	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1.5	0.0856	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.37	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.21	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	3.5	0.228	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.1536	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1.5	0.304	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	1	0.1402	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	1	0.348	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	5	0.388	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.1134	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	1	0.1108	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	1	0.1732	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.1208	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	1	0.1176	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	5	0.1414	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.236	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	1	0.1008	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	1	0.118	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1.5	0.1948	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.1274	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	5	0.294	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.338	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	2	0.1174	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.316	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.262	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.212	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	1	0.125	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	5	0.1532	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	5	0.135	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	5	0.1384	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.0844	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.351	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	2	0.338	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30			
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.1428	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30			
Dibromomethane	74-95-3	10	0.1636	ug/kg	70-130	30	70-130	30	30			

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

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

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.132	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	10	0.1626	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	2	0.402	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.1908	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	36	1.036	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	1.102	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	0.272	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	0.1322	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	0.244	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	0.666	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	0.1546	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	0.514	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	5	0.276	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	20	0.996	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	5	0.226	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	4	0.1744	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	5	0.1452	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	1	0.318	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	5	0.208	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.1148	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.122	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	5	0.1354	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	4	0.23	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	5	0.1598	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	5	0.1328	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	5	0.396	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	5	0.228	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.1038	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.125	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	5	0.1384	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.1092	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	5	0.1476	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.1818	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	5	0.1434	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	5	0.1414	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	0.392	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	5	0.26	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	20	0.27	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	20	0.922	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	4	0.1396	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	20	0.146	ug/kg	70-130	30	70-130	30	30			
Ethyl-Tert-Butyl-Ether	637-92-3	4	0.1158	ug/kg	70-130	30	70-130	30	30			

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Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Tertiary-Amyl Methyl Ether	994-05-8	4	0.0966	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	100	14.42	ug/kg	65-136	30	65-136	30	30			
Methyl cyclohexane	108-87-2	4	0.1546	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20	0.274	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

Volatiles Sample Data

Form 1
VOA

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-01	Date Collected	: 10/30/17 11:10
Client ID	: MW-7	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:56
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A19	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	98	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-01	Date Collected	: 10/30/17 11:10
Client ID	: MW-7	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:56
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A19	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	1.0	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-01	Date Collected	: 10/30/17 11:10
Client ID	: MW-7	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:56
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A19	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-02	Date Collected	: 10/30/17 11:30
Client ID	: MW-8	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:01
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A17	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	2.0	0.50	0.18	
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	0.14	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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-02	Date Collected	: 10/30/17 11:30
Client ID	: MW-8	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:01
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A17	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.22	0.50	0.18	J
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-02	Date Collected	: 10/30/17 11:30
Client ID	: MW-8	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:01
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A17	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-03	Date Collected	: 10/30/17 12:00
Client ID	: MW-8D	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A18	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	2.9	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-03	Date Collected	: 10/30/17 12:00
Client ID	: MW-8D	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A18	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.18	0.50	0.18	J
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-03	Date Collected	: 10/30/17 12:00
Client ID	: MW-8D	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V22171108A18	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-04	Date Collected	: 10/31/17 11:11
Client ID	: MW-10	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 10:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A06	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	20	0.50	0.18	
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	0.19	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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-04	Date Collected	: 10/31/17 11:11
Client ID	: MW-10	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 10:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A06	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.93	0.50	0.18	
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	1.2	2.5	0.70	J
540-59-0	1,2-Dichloroethene, Total	1.2	2.5	0.70	J
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-04	Date Collected	: 10/31/17 11:11
Client ID	: MW-10	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 10:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A06	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-05D	Date Collected	: 10/31/17 11:45
Client ID	: MW-9	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 10:59
Sample Matrix	: WATER	Dilution Factor	: 2
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A07	Instrument ID	: VOA101
Sample Amount	: 5 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.0	1.4	U
75-34-3	1,1-Dichloroethane	ND	5.0	1.4	U
67-66-3	Chloroform	ND	5.0	1.4	U
56-23-5	Carbon tetrachloride	ND	1.0	0.27	U
78-87-5	1,2-Dichloropropane	ND	2.0	0.27	U
124-48-1	Dibromochloromethane	ND	1.0	0.30	U
79-00-5	1,1,2-Trichloroethane	ND	3.0	1.0	U
127-18-4	Tetrachloroethene	130	1.0	0.36	
108-90-7	Chlorobenzene	ND	5.0	1.4	U
75-69-4	Trichlorofluoromethane	ND	5.0	1.4	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.4	U
75-27-4	Bromodichloromethane	ND	1.0	0.38	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	U
542-75-6	1,3-Dichloropropene, Total	ND	1.0	0.29	U
563-58-6	1,1-Dichloropropene	ND	5.0	1.4	U
75-25-2	Bromoform	ND	4.0	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	U
71-43-2	Benzene	ND	1.0	0.32	U
108-88-3	Toluene	ND	5.0	1.4	U
100-41-4	Ethylbenzene	ND	5.0	1.4	U
74-87-3	Chloromethane	ND	5.0	1.4	U
74-83-9	Bromomethane	ND	5.0	1.4	U
75-01-4	Vinyl chloride	ND	2.0	0.14	U
75-00-3	Chloroethane	ND	5.0	1.4	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	U

Form 1
VOA

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-05D	Date Collected	: 10/31/17 11:45
Client ID	: MW-9	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 10:59
Sample Matrix	: WATER	Dilution Factor	: 2
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A07	Instrument ID	: VOA101
Sample Amount	: 5 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	5.0	1.4	U
79-01-6	Trichloroethene	4.7	1.0	0.35	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.4	U
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.4	U
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.4	U
1634-04-4	Methyl tert butyl ether	ND	5.0	1.4	U
179601-23-1	p/m-Xylene	ND	5.0	1.4	U
95-47-6	o-Xylene	ND	5.0	1.4	U
1330-20-7	Xylenes, Total	ND	5.0	1.4	U
156-59-2	cis-1,2-Dichloroethene	ND	5.0	1.4	U
540-59-0	1,2-Dichloroethene, Total	ND	5.0	1.4	U
74-95-3	Dibromomethane	ND	10	2.0	U
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	U
107-13-1	Acrylonitrile	ND	10	3.0	U
100-42-5	Styrene	ND	5.0	1.4	U
75-71-8	Dichlorodifluoromethane	ND	10	2.0	U
67-64-1	Acetone	ND	10	2.9	U
75-15-0	Carbon disulfide	ND	10	2.0	U
78-93-3	2-Butanone	ND	10	3.9	U
108-05-4	Vinyl acetate	ND	10	2.0	U
108-10-1	4-Methyl-2-pentanone	ND	10	2.0	U
591-78-6	2-Hexanone	ND	10	2.0	U
74-97-5	Bromochloromethane	ND	5.0	1.4	U
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	U
106-93-4	1,2-Dibromoethane	ND	4.0	1.3	U
142-28-9	1,3-Dichloropropane	ND	5.0	1.4	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.4	U

Form 1
VOA

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-05D	Date Collected	: 10/31/17 11:45
Client ID	: MW-9	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 10:59
Sample Matrix	: WATER	Dilution Factor	: 2
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A07	Instrument ID	: VOA101
Sample Amount	: 5 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
108-86-1	Bromobenzene	ND	5.0	1.4	U
104-51-8	n-Butylbenzene	ND	5.0	1.4	U
135-98-8	sec-Butylbenzene	ND	5.0	1.4	U
98-06-6	tert-Butylbenzene	ND	5.0	1.4	U
95-49-8	o-Chlorotoluene	ND	5.0	1.4	U
106-43-4	p-Chlorotoluene	ND	5.0	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	U
87-68-3	Hexachlorobutadiene	ND	5.0	1.4	U
98-82-8	Isopropylbenzene	ND	5.0	1.4	U
99-87-6	p-Isopropyltoluene	ND	5.0	1.4	U
91-20-3	Naphthalene	ND	5.0	1.4	U
103-65-1	n-Propylbenzene	ND	5.0	1.4	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.4	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.4	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.4	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.4	U
123-91-1	1,4-Dioxane	ND	500	120	U
105-05-5	p-Diethylbenzene	ND	4.0	1.4	U
622-96-8	p-Ethyltoluene	ND	4.0	1.4	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.0	1.1	U
60-29-7	Ethyl ether	ND	5.0	1.4	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U

Form 1
VOA

Client	: P. W. Grosser	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-06	Date Collected	: 10/31/17 12:05
Client ID	: MW-9D	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 11:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A09	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	1.2	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-06	Date Collected	: 10/31/17 12:05
Client ID	: MW-9D	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 11:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A09	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-06	Date Collected	: 10/31/17 12:05
Client ID	: MW-9D	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 11:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A09	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-07	Date Collected	: 10/31/17 12:35
Client ID	: MW-2	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 12:54
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A11	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	3.0	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-07	Date Collected	: 10/31/17 12:35
Client ID	: MW-2	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 12:54
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A11	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.42	0.50	0.18	J
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-07	Date Collected	: 10/31/17 12:35
Client ID	: MW-2	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 12:54
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A11	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-08	Date Collected	: 10/31/17 13:10
Client ID	: MW-4	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 13:22
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A12	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-08	Date Collected	: 10/31/17 13:10
Client ID	: MW-4	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 13:22
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A12	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-08	Date Collected	: 10/31/17 13:10
Client ID	: MW-4	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 13:22
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A12	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-09	Date Collected	: 10/31/17 13:40
Client ID	: MW-5	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 13:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A13	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	1.9	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-09	Date Collected	: 10/31/17 13:40
Client ID	: MW-5	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 13:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A13	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.78	0.50	0.18	
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	4.3	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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-09	Date Collected	: 10/31/17 13:40
Client ID	: MW-5	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 13:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A13	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-10	Date Collected	: 10/31/17 14:05
Client ID	: MW-3	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 14:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A14	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	12	0.50	0.18	
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	10	1.0	0.07	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-10	Date Collected	: 10/31/17 14:05
Client ID	: MW-3	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 14:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A14	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	0.77	2.5	0.70	J
79-01-6	Trichloroethene	4.0	0.50	0.18	
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	61	2.5	0.70	
540-59-0	1,2-Dichloroethene, Total	62	2.5	0.70	J
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-10	Date Collected	: 10/31/17 14:05
Client ID	: MW-3	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 14:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A14	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-11	Date Collected	: 10/31/17 14:30
Client ID	: MW-11	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 14:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A15	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	2.0	0.50	0.18	
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-11	Date Collected	: 10/31/17 14:30
Client ID	: MW-11	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 14:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A15	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	3.5	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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-11	Date Collected	: 10/31/17 14:30
Client ID	: MW-11	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 14:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V01171108A15	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-12	Date Collected	: 10/31/17 00:00
Client ID	: DUPE	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A16	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	2.0	0.50	0.18	
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	0.11	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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-12	Date Collected	: 10/31/17 00:00
Client ID	: DUPE	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A16	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.24	0.50	0.18	J
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-12	Date Collected	: 10/31/17 00:00
Client ID	: DUPE	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A16	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-13	Date Collected	: 10/31/17 00:00
Client ID	: TRIP BLANK	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A17	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-13	Date Collected	: 10/31/17 00:00
Client ID	: TRIP BLANK	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A17	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: L1739725-13	Date Collected	: 10/31/17 00:00
Client ID	: TRIP BLANK	Date Received	: 10/31/17
Sample Location	:	Date Analyzed	: 11/08/17 15:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V01171108A17	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: WG1060957-5	Date Collected	: NA
Client ID	: WG1060957-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/17 09:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A04	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: WG1060957-5	Date Collected	: NA
Client ID	: WG1060957-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/17 09:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A04	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: WG1060957-5	Date Collected	: NA
Client ID	: WG1060957-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/17 09:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V01171108A04	Instrument ID	: VOA101
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: WG1060967-5	Date Collected	: NA
Client ID	: WG1060967-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/17 09:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V22171108A05	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: WG1060967-5	Date Collected	: NA
Client ID	: WG1060967-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/17 09:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V22171108A05	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	Lab Number	: L1739725
Project Name	: PEN1101	Project Number	: PEN1101
Lab ID	: WG1060967-5	Date Collected	: NA
Client ID	: WG1060967-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 11/08/17 09:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V22171108A05	Instrument ID	: VOA122
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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\VOA122\2017\171108A\
Data File : V22171108A17.D
Acq On : 08 Nov 2017 03:01 pm
Operator : VOA122:MKS
Sample : l1739725-02,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 17:31:00 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.091	96	244645	10.000 ug/L	0.00
Standard Area 1 = 269066			Recovery =	90.92%	
62) Chlorobenzene-d5	9.646	117	187658	10.000 ug/L	-0.01
Standard Area 1 = 210100			Recovery =	89.32%	
83) 1,4-Dichlorobenzene-d4	12.341	152	90761	10.000 ug/L	0.00
Standard Area 1 = 107092			Recovery =	84.75%	
System Monitoring Compounds					
38) Dibromofluoromethane	5.265	113	61654	9.751 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.51%	
46) 1,2-Dichloroethane-d4	5.802	65	64115	10.956 ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.56%	
63) Toluene-d8	7.790	98	242090	10.732 ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.32%	
87) 4-Bromofluorobenzene	11.133	95	85335	10.884 ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.84%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	1.903	62	953	0.136 ug/L	73
5) Bromomethane	0.000		0	N.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	3.011	76	362	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.712	96	414	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
27) Acrylonitrile	0.000		0	N.D.	
29) Vinyl acetate	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.820	96	3163	0.430 ug/L #	85
31) 2,2-Dichloropropane	0.000		0	N.D.	
32) Bromochloromethane	0.000		0	N.D.	
34) Chloroform	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A17.D
Acq On : 08 Nov 2017 03:01 pm
Operator : VOA122:MKS
Sample : l1739725-02,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 17:31:00 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon tetrachloride	0.000		0	N.D.		
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	0.000		0	N.D.		
42) 1,1-Dichloropropene	0.000		0	N.D.		
44) Benzene	5.668	78	535	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
51) Trichloroethene	6.266	95	1491	0.218	ug/L	92
53) Dibromomethane	0.000		0	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	7.856	92	88	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	8.292	166	15428	1.956	ug/L	94
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
72) Chlorodibromomethane	0.000		0	N.D.		
73) 1,3-Dichloropropane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.712	91	1507	N.D.		
79) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
80) p/m Xylene	9.902	106	1621	0.135	ug/L	96
81) o Xylene	10.432	106	4816	0.437	ug/L	90
82) Styrene	10.441	104	90	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	10.820	105	2779	0.098	ug/L	91
88) Bromobenzene	0.000		0	N.D.		
89) n-Propylbenzene	11.294	91	3588	0.111	ug/L	92
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
92) 4-Ethyltoluene	11.408	105	557	N.D.		
93) 2-Chlorotoluene	0.000		0	N.D.	d	
94) 1,3,5-Trimethylbenzene	11.408	105	557	N.D.		
95) 1,2,3-Trichloropropane	0.000		0	N.D.		
96) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
97) 4-Chlorotoluene	11.749	91	614	N.D.		
98) tert-Butylbenzene	11.862	119	573	N.D.		

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A17.D
Acq On : 08 Nov 2017 03:01 pm
Operator : VOA122:MKS
Sample : l1739725-02,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 17:31:00 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) 1,2,4-Trimethylbenzene	11.936	105	4531	0.204	ug/L		99
102) sec-Butylbenzene	12.048	105	13302	0.461	ug/L	#	82
103) p-Isopropyltoluene	12.169	119	1305	N.D.			
104) 1,3-Dichlorobenzene	0.000		0	N.D.			
105) 1,4-Dichlorobenzene	0.000		0	N.D.			
106) p-Diethylbenzene	12.574	119	1942M1	0.134	ug/L		
107) n-Butylbenzene	12.634	91	4157	0.190	ug/L		98
108) 1,2-Dichlorobenzene	0.000		0	N.D.			
109) 1,2,4,5-Tetramethylben...	13.368	119	711	N.D.			
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
112) Hexachlorobutadiene	0.000		0	N.D.			
113) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
114) Naphthalene	14.489	128	729	N.D.			
115) 1,2,3-Trichlorobenzene	0.000		0	N.D.			

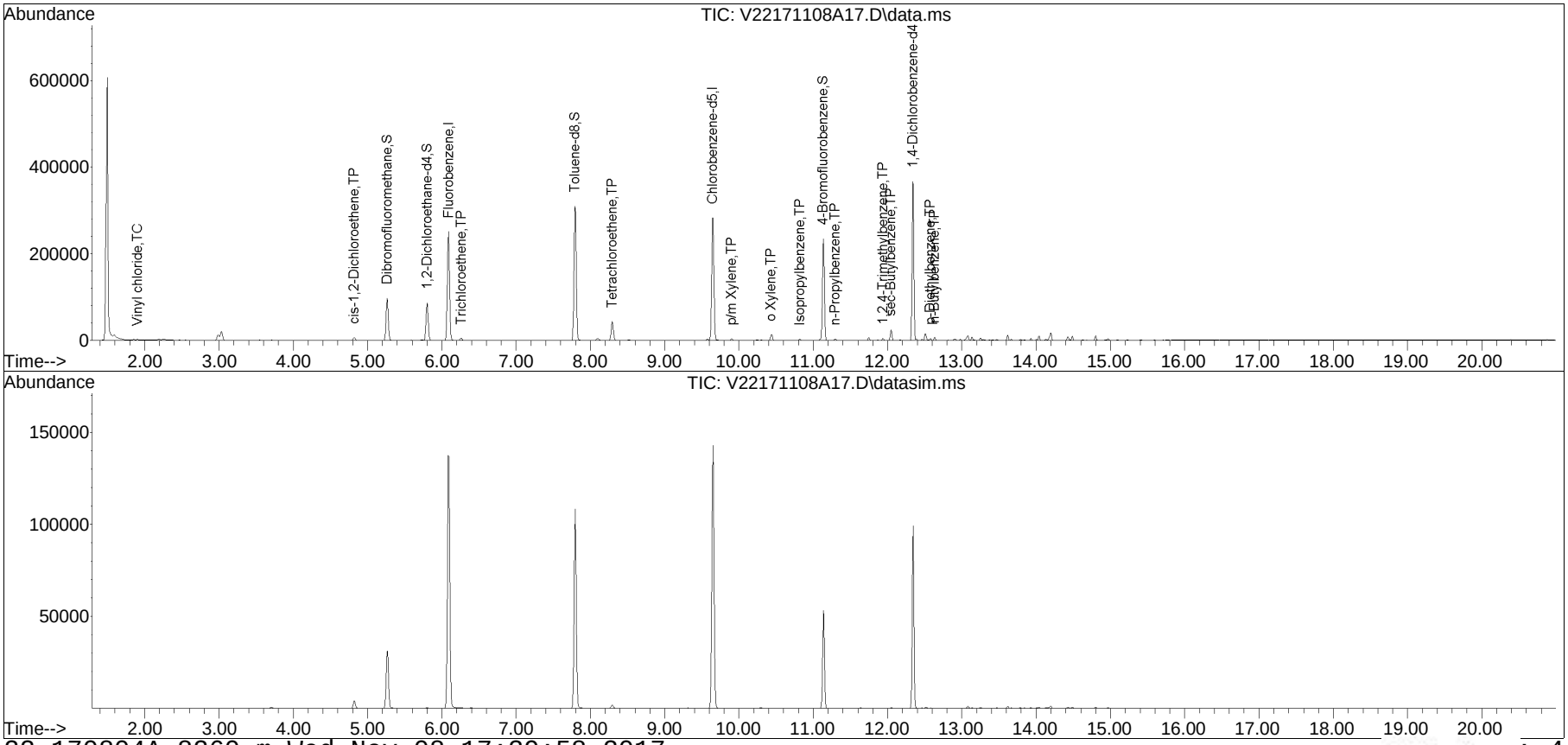
(#) = qualifier out of range (m) = manual integration (+) = signals summed

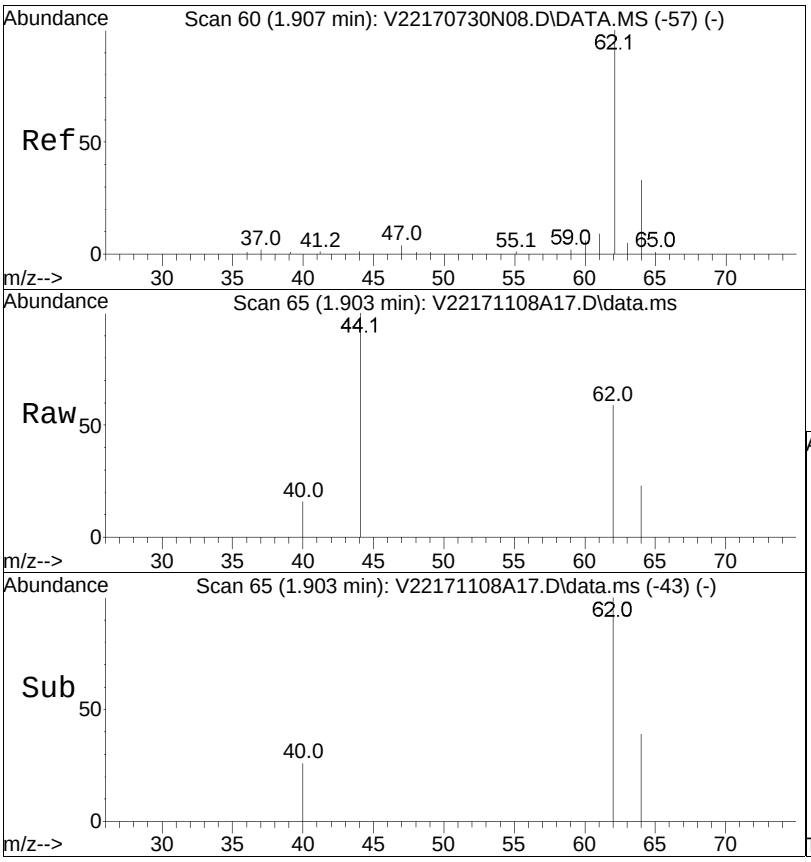
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A17.D
Acq On : 08 Nov 2017 03:01 pm
Operator : VOA122:MKS
Sample : l1739725-02,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 17:31:00 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\\V22171108A02.D•

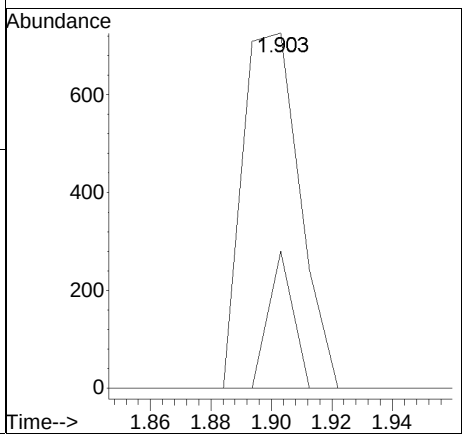


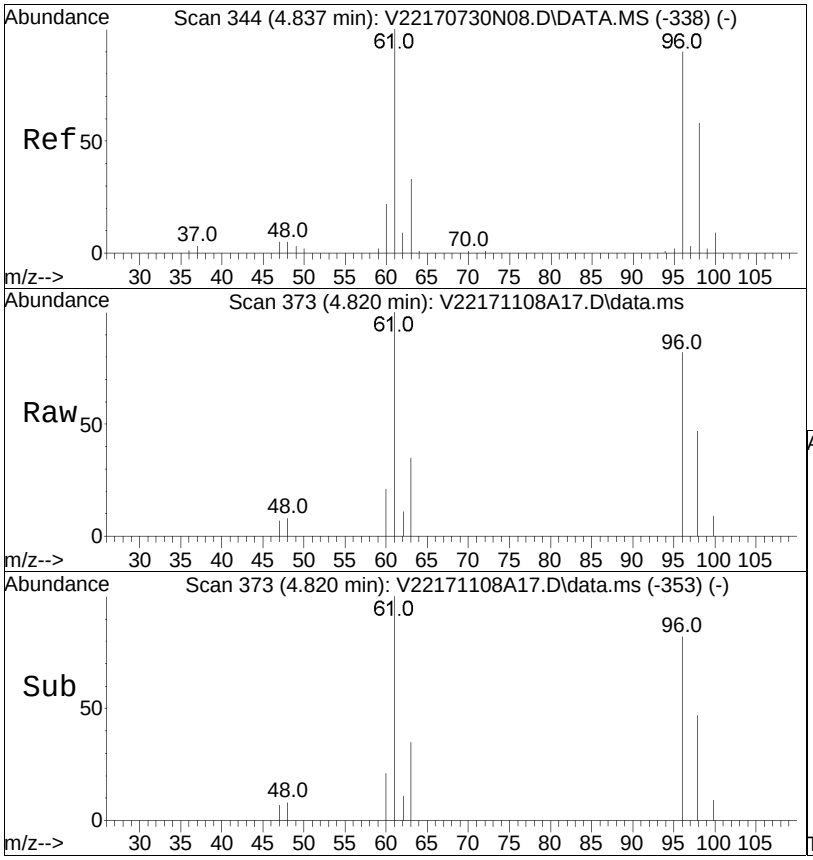


#4
Vinyl chloride
Concen: 0.14 ug/L
RT: 1.903 min Scan# 65
Delta R.T. 0.007 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion: 62 Resp: 953

Ion	Ratio	Lower	Upper
62	100		
64	16.7	12.0	52.0

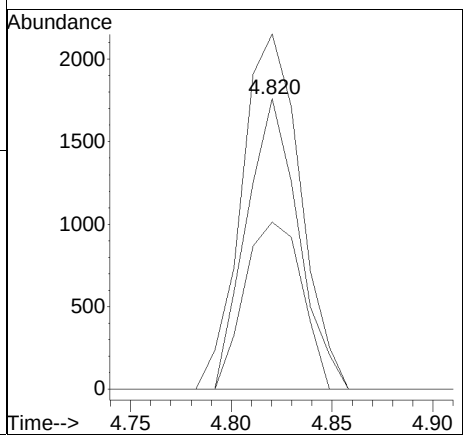


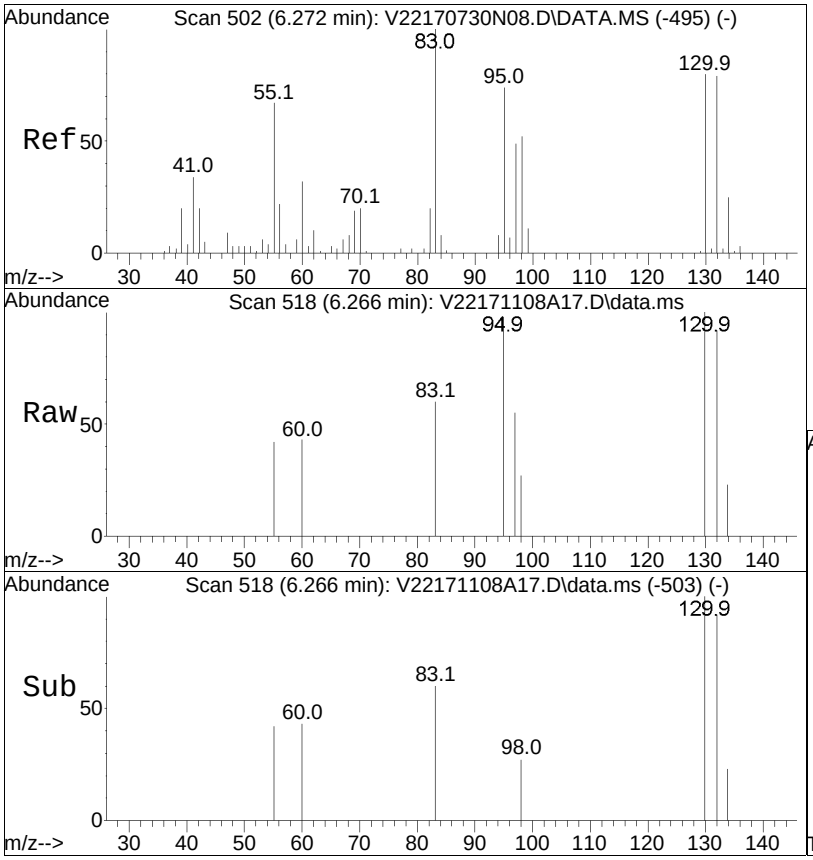


#30
cis-1,2-Dichloroethene
Concen: 0.43 ug/L
RT: 4.820 min Scan# 373
Delta R.T. -0.007 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion: 96 Resp: 3163

Ion	Ratio	Lower	Upper
96	100		
61	138.7	90.3	135.5#
98	63.6	50.8	76.2

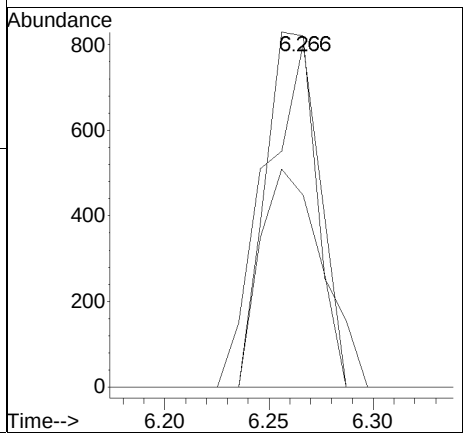


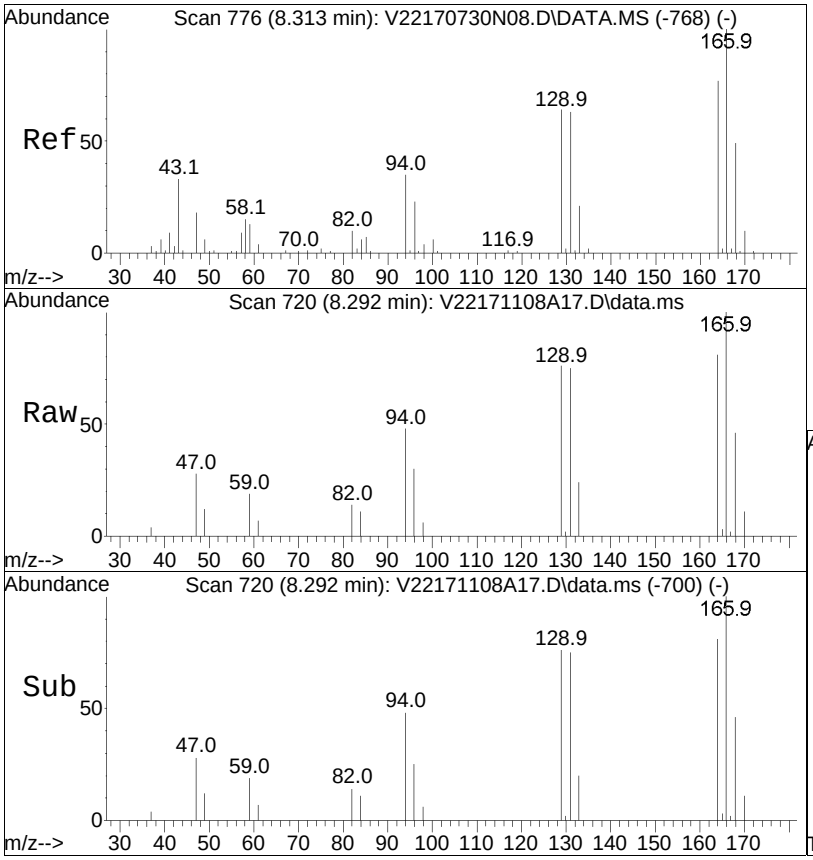


#51
Trichloroethene
Concen: 0.22 ug/L
RT: 6.266 min Scan# 518
Delta R.T. -0.006 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion: 95 Resp: 1491

Ion	Ratio	Lower	Upper
95	100		
97	65.2	55.0	82.4
130	101.3	89.2	133.8

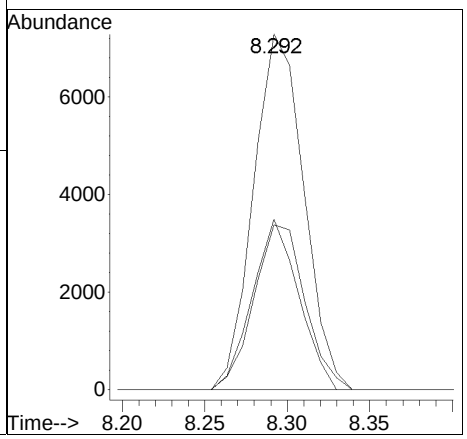


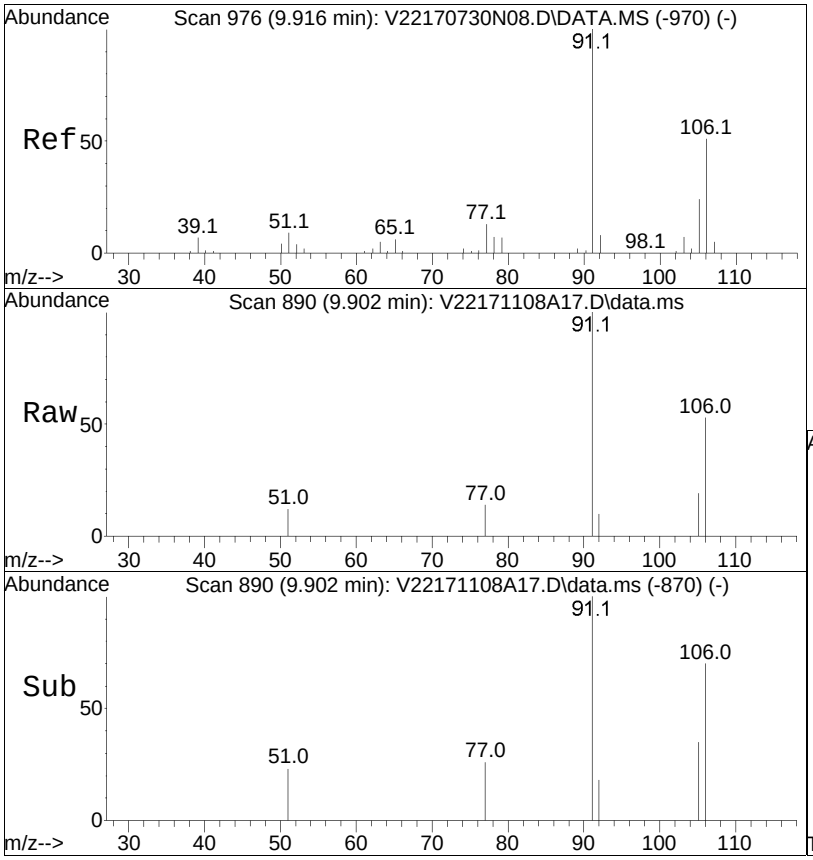


#66
Tetrachloroethene
Concen: 1.96 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:166 Resp: 15428

Ion	Ratio	Lower	Upper
166	100		
168	47.1	27.8	67.8
94	44.1	16.7	56.7

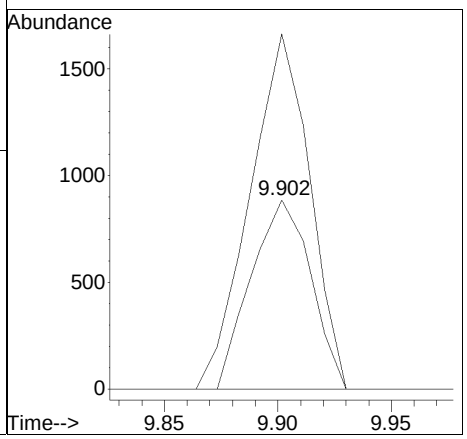


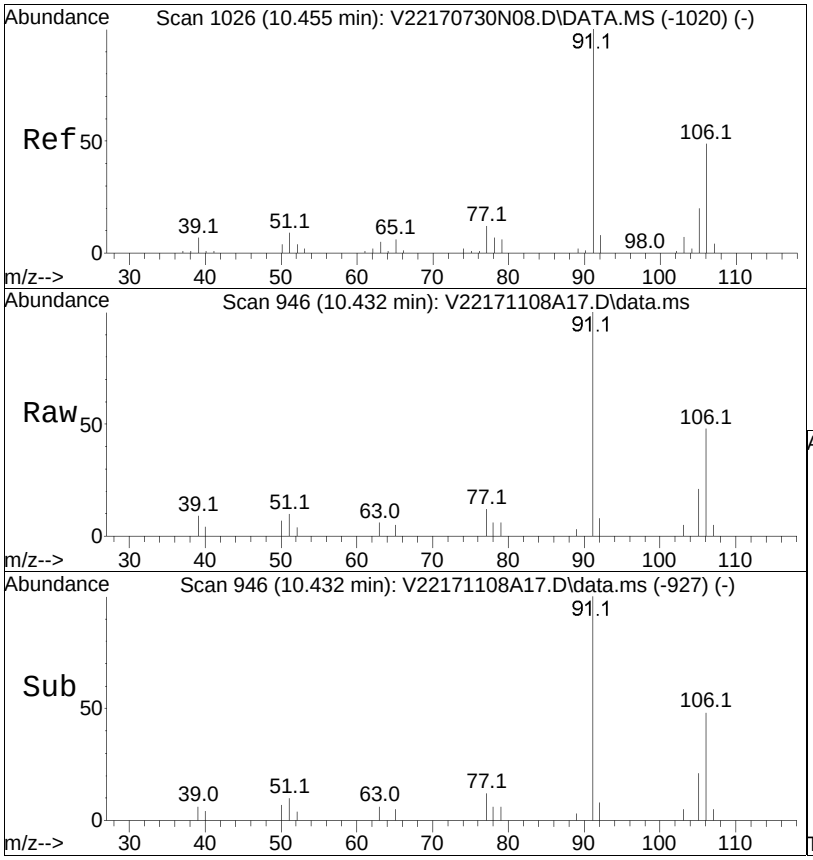


#80
p/m Xylene
Concen: 0.14 ug/L
RT: 9.902 min Scan# 890
Delta R.T. -0.014 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:106 Resp: 1621

Ion	Ratio	Lower	Upper
106	100		
91	188.3	156.0	234.0

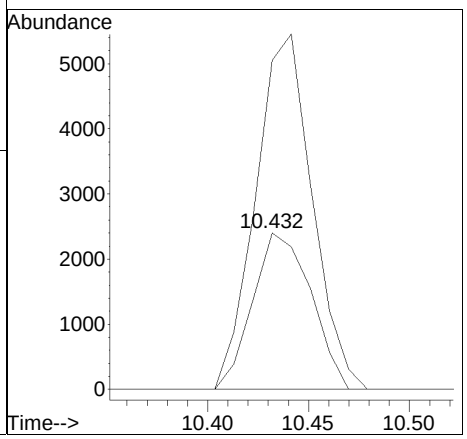


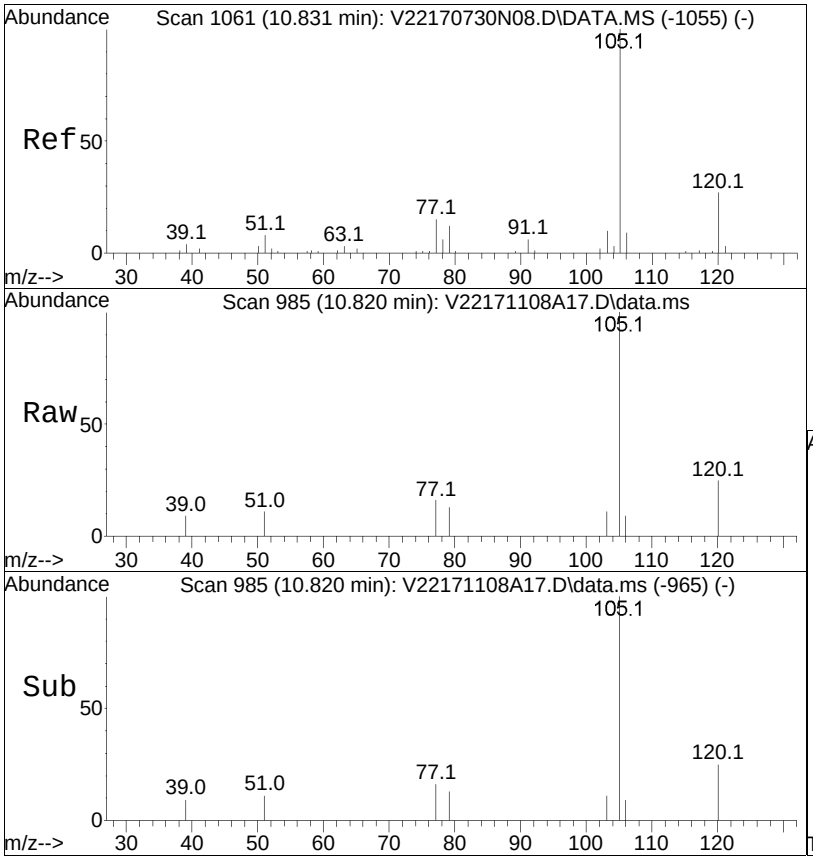


#81
o Xylene
Concen: 0.44 ug/L
RT: 10.432 min Scan# 946
Delta R.T. -0.023 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:106 Resp: 4816

Ion	Ratio	Lower	Upper
106	100		
91	220.5	164.0	246.0

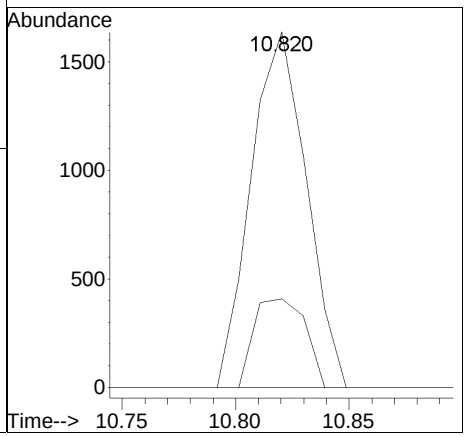


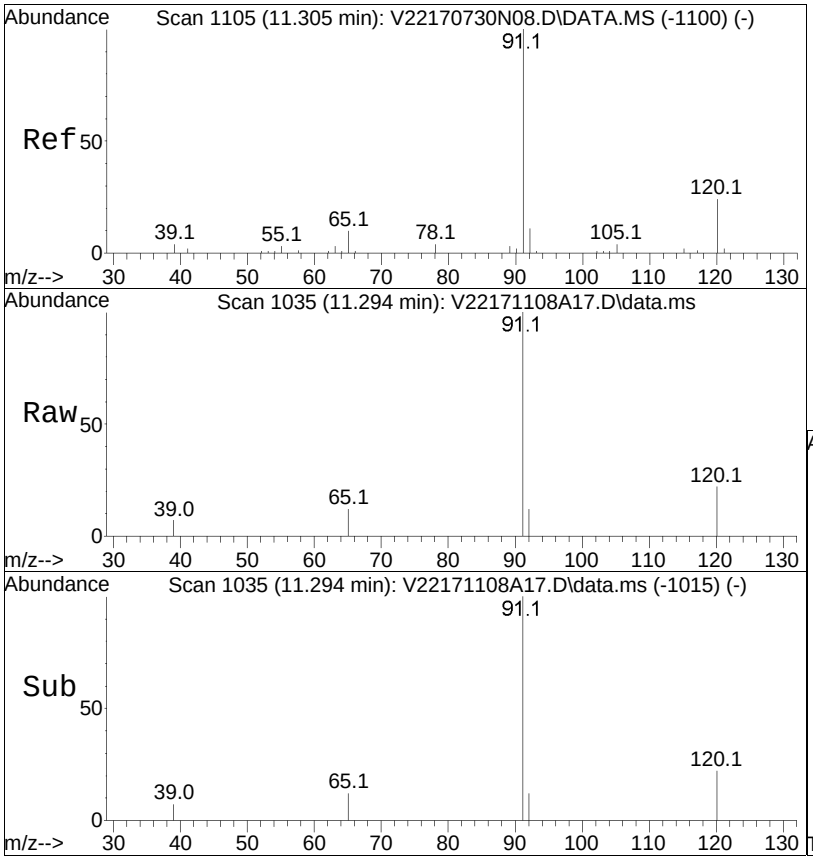


#86
Isopropylbenzene
Concen: 0.10 ug/L
RT: 10.820 min Scan# 985
Delta R.T. -0.011 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:105 Resp: 2779

Ion	Ratio	Lower	Upper
105	100		
120	23.1	7.7	47.7

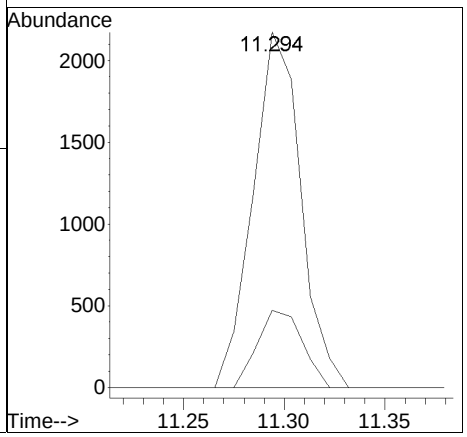


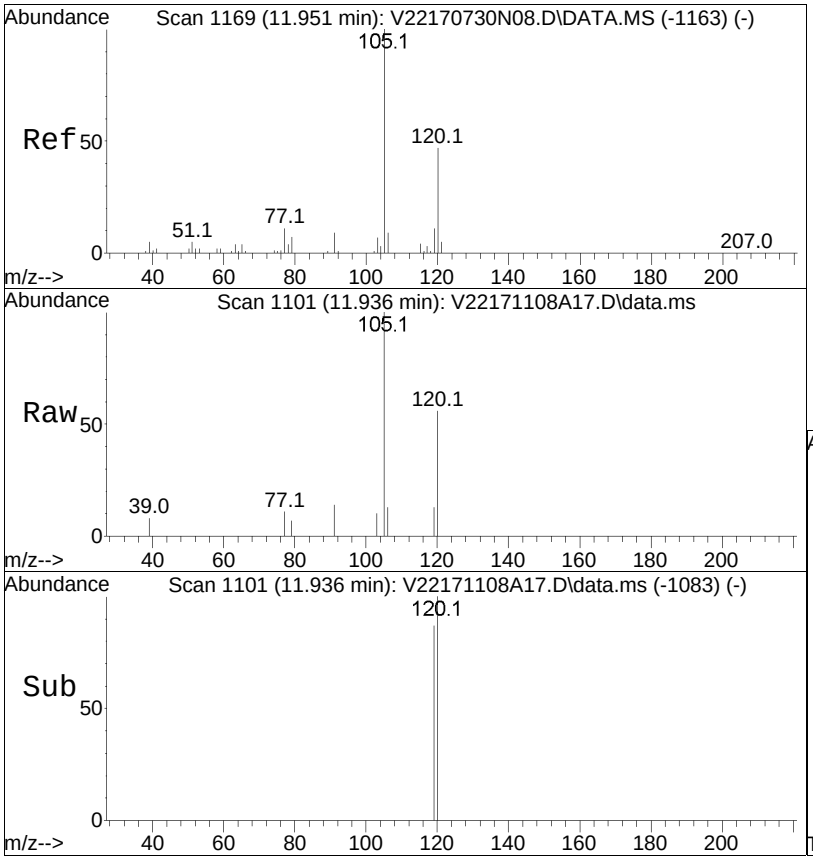


#89
n-Propylbenzene
Concen: 0.11 ug/L
RT: 11.294 min Scan# 1035
Delta R.T. -0.011 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion: 91 Resp: 3588

Ion	Ratio	Lower	Upper
91	100		
120	20.4	19.5	29.3

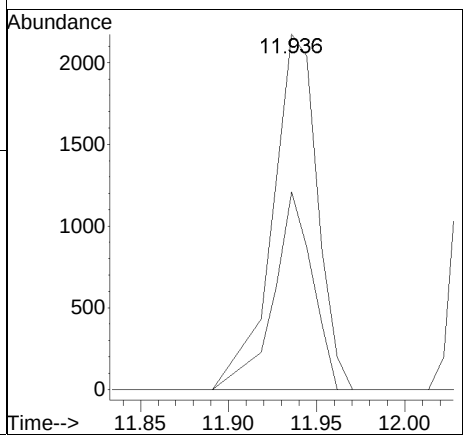


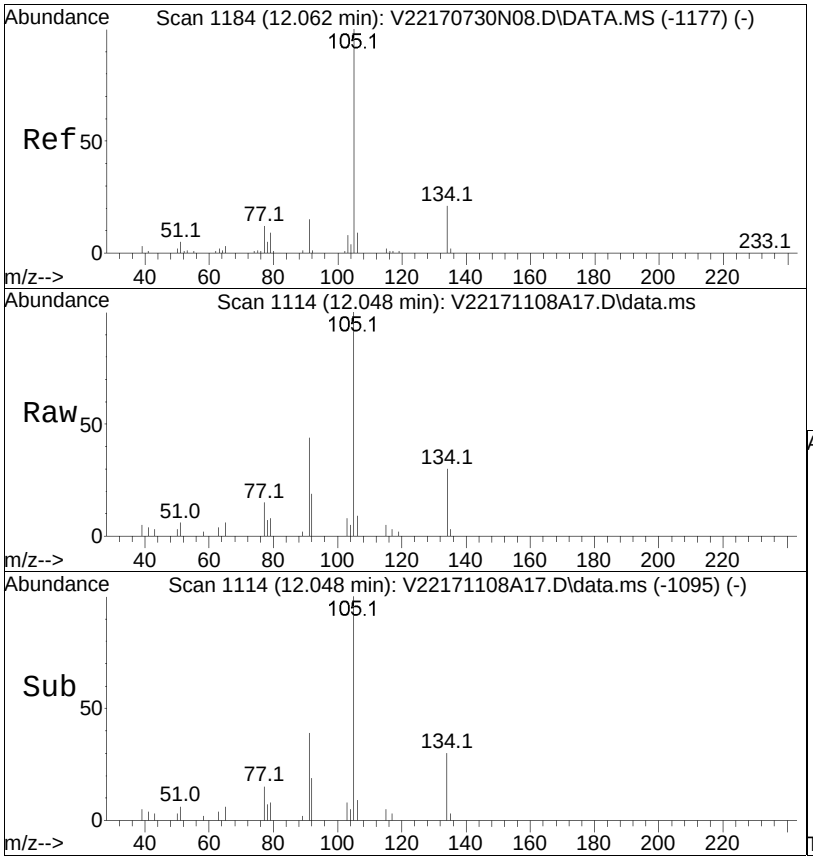


#101
1,2,4-Trimethylbenzene
Concen: 0.20 ug/L
RT: 11.936 min Scan# 1101
Delta R.T. -0.015 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:105 Resp: 4531

Ion	Ratio	Lower	Upper
105	100		
120	49.0	38.5	57.7

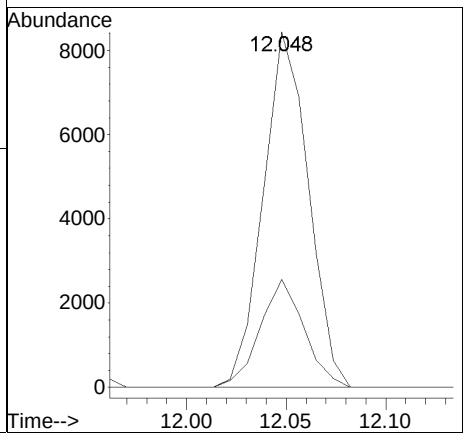


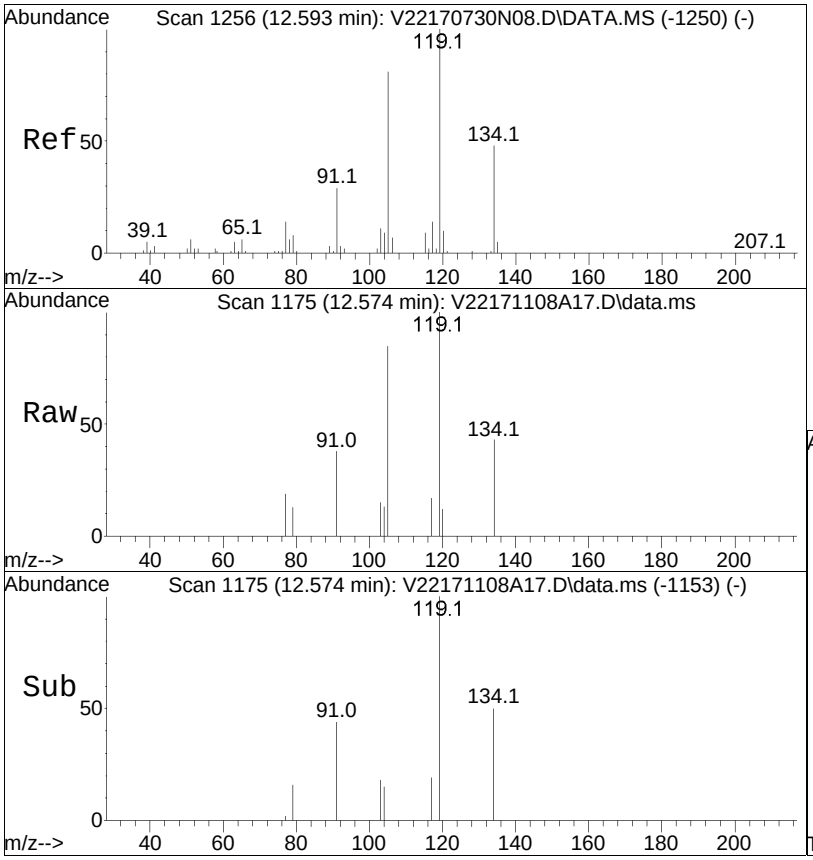


#102
sec-Butylbenzene
Concen: 0.46 ug/L
RT: 12.048 min Scan# 1114
Delta R.T. -0.014 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:105 Resp: 13302

Ion	Ratio	Lower	Upper
105	100		
134	29.7	13.9	28.9#

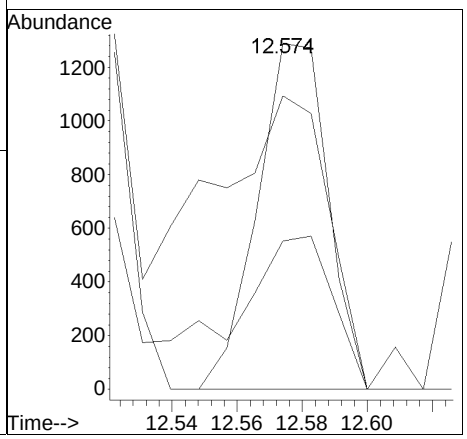


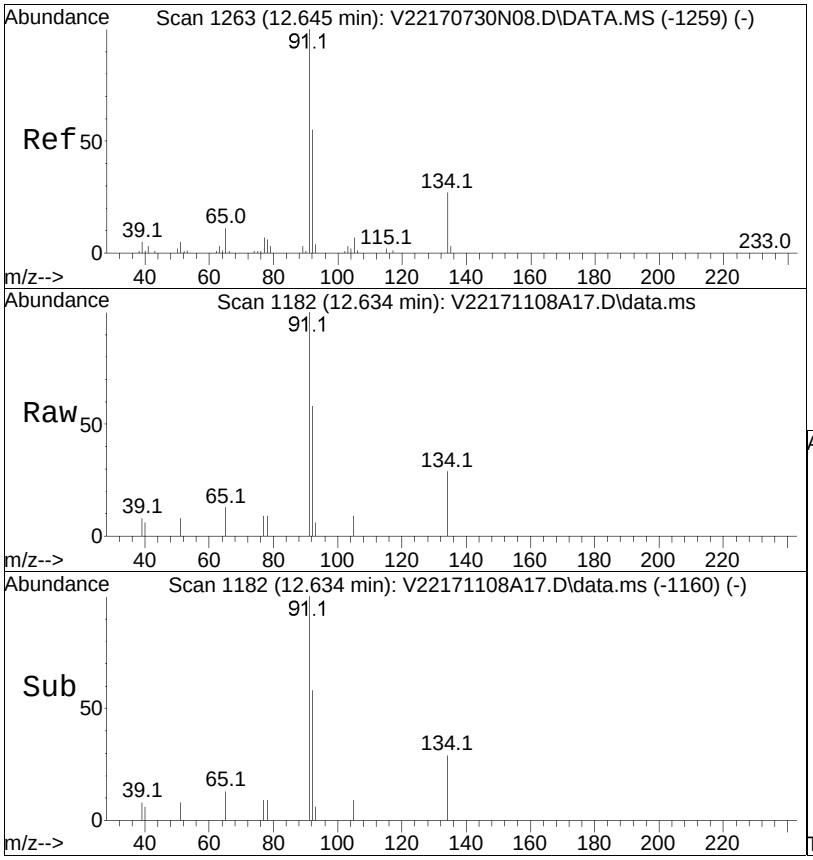


#106
p-Diethylbenzene
Concen: 0.13 ug/L M1
RT: 12.574 min Scan# 1175
Delta R.T. -0.012 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion:119 Resp: 1942

Ion	Ratio	Lower	Upper
119	100		
105	299.1	53.4	110.8#
134	129.2	30.9	64.1#

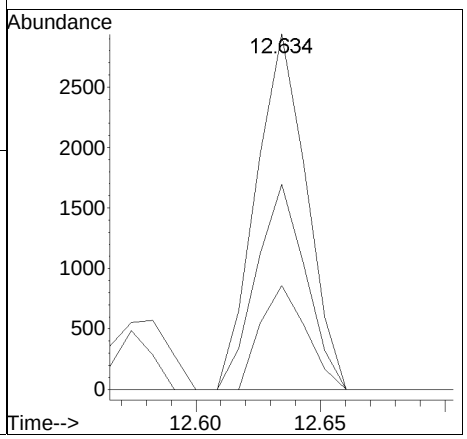




#107
n-Butylbenzene
Concen: 0.19 ug/L
RT: 12.634 min Scan# 1182
Delta R.T. -0.011 min
Lab File: V22171108A17.D
Acq: 08 Nov 2017 03:01 pm

Tgt Ion: 91 Resp: 4157

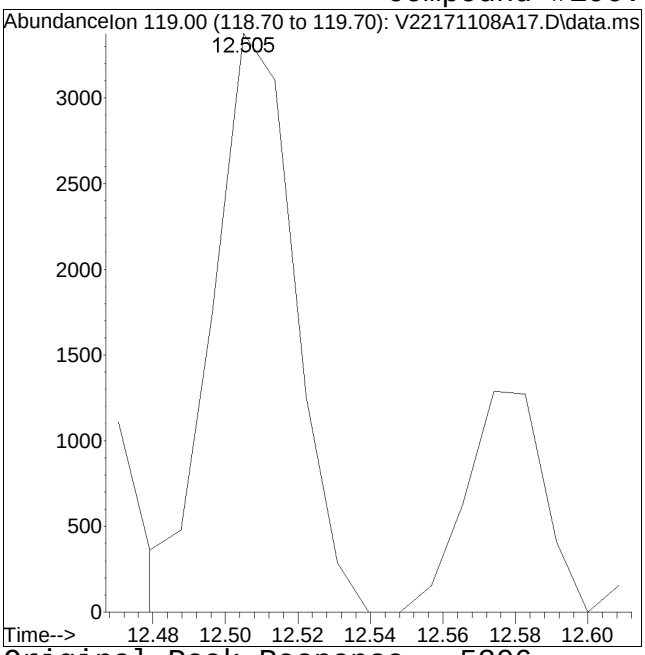
Ion	Ratio	Lower	Upper
91	100		
92	56.4	44.6	66.8
134	26.4	22.9	34.3



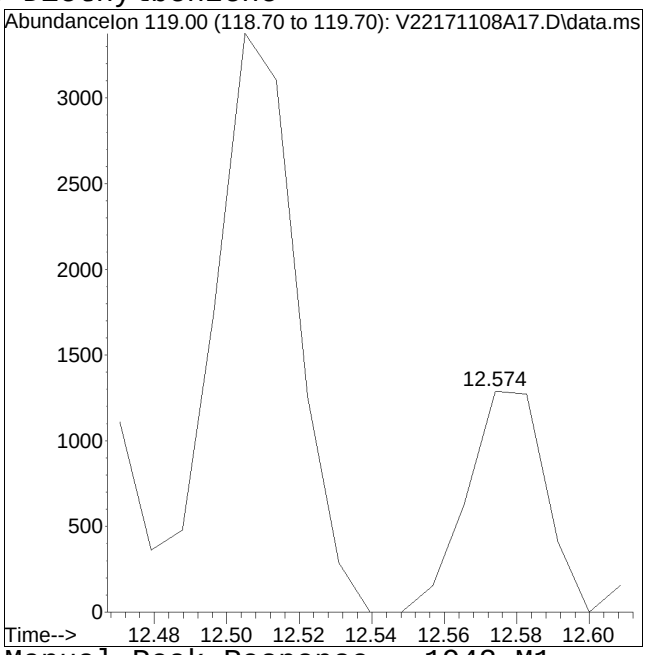
Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1Q
Data File : V22171108A17.D
Date Inj'd : 11/8/2017 3:01 pm
Sample : l1739725-02,31,10,10,,a
Method : V122_170804A_8260.m
Operator : VOA122:MKS
Instrument : VOA122
Quant Date : 11/8/2017 5:28 pm

Compound #106: p-Diethylbenzene



Original Peak Response = 5306



Manual Peak Response = 1942 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A18.D
Acq On : 08 Nov 2017 03:28 pm
Operator : VOA122:MKS
Sample : l1739725-03,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 08 17:31:40 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	241709	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery = 89.83%			
62) Chlorobenzene-d5	9.646	117	184803	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery = 87.96%			
83) 1,4-Dichlorobenzene-d4	12.341	152	87698	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery = 81.89%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.265	113	59833	9.578	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.78%			
46) 1,2-Dichloroethane-d4	5.802	65	63521	10.986	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.86%			
63) Toluene-d8	7.790	98	240181	10.812	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.12%			
87) 4-Bromofluorobenzene	11.133	95	83551	11.028	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	1.894	62	414	N.D.		
5) Bromomethane	0.000		0	N.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	3.011	76	144	N.D.		
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.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
27) Acrylonitrile	0.000		0	N.D.		
29) Vinyl acetate	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	4.820	96	1457	0.200	ug/L #	71
31) 2,2-Dichloropropane	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
34) Chloroform	5.086	83	1044	0.094	ug/L #	80

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A18.D
Acq On : 08 Nov 2017 03:28 pm
Operator : VOA122:MKS
Sample : l1739725-03,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 08 17:31:40 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon tetrachloride	0.000		0	N.D.		
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	0.000		0	N.D.		
42) 1,1-Dichloropropene	0.000		0	N.D.		
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
51) Trichloroethene	6.256	95	1223	0.181	ug/L #	78
53) Dibromomethane	0.000		0	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	0.000		0	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	8.292	166	22857	2.942	ug/L	93
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
73) 1,3-Dichloropropane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.646	91	208	N.D.		
79) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	10.820	105	92	N.D.		
88) Bromobenzene	0.000		0	N.D.		
89) n-Propylbenzene	11.133	91	142	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
92) 4-Ethyltoluene	0.000		0	N.D.		
93) 2-Chlorotoluene	0.000		0	N.D.		
94) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
95) 1,2,3-Trichloropropane	0.000		0	N.D.		
96) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
97) 4-Chlorotoluene	0.000		0	N.D.		
98) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A18.D
Acq On : 08 Nov 2017 03:28 pm
Operator : VOA122:MKS
Sample : l1739725-03,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 08 17:31:40 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	12.048	105	355			N.D.
102) sec-Butylbenzene	12.048	105	355			N.D.
103) p-Isopropyltoluene	0.000		0			N.D.
104) 1,3-Dichlorobenzene	0.000		0			N.D.
105) 1,4-Dichlorobenzene	0.000		0			N.D.
106) p-Diethylbenzene	0.000		0			N.D.
107) n-Butylbenzene	0.000		0			N.D.
108) 1,2-Dichlorobenzene	0.000		0			N.D.
109) 1,2,4,5-Tetramethylben...	0.000		0			N.D.
110) 1,2-Dibromo-3-chloropr...	0.000		0			N.D.
112) Hexachlorobutadiene	0.000		0			N.D.
113) 1,2,4-Trichlorobenzene	0.000		0			N.D.
114) Naphthalene	0.000		0			N.D.
115) 1,2,3-Trichlorobenzene	0.000		0			N.D.

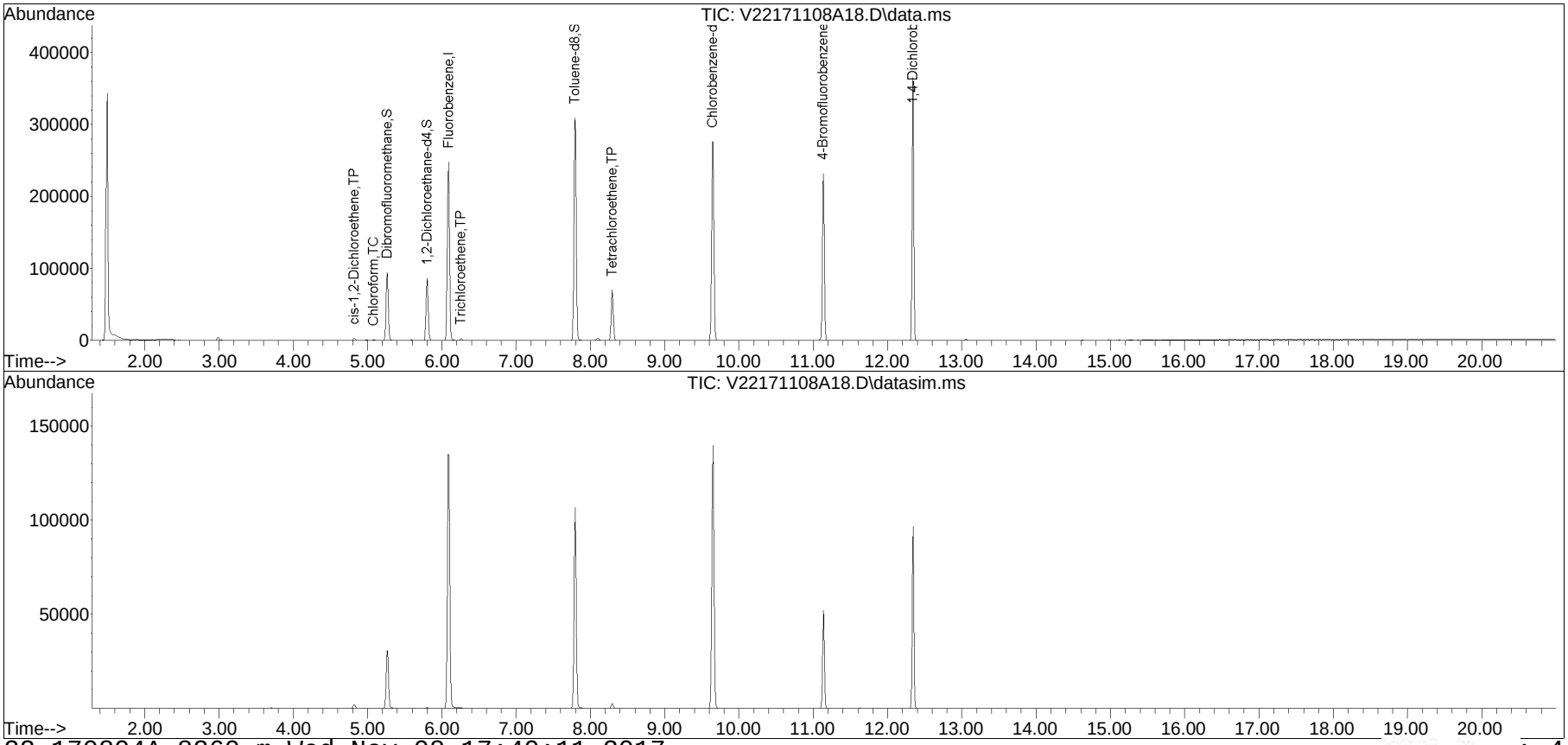
(#) = qualifier out of range (m) = manual integration (+) = signals summed

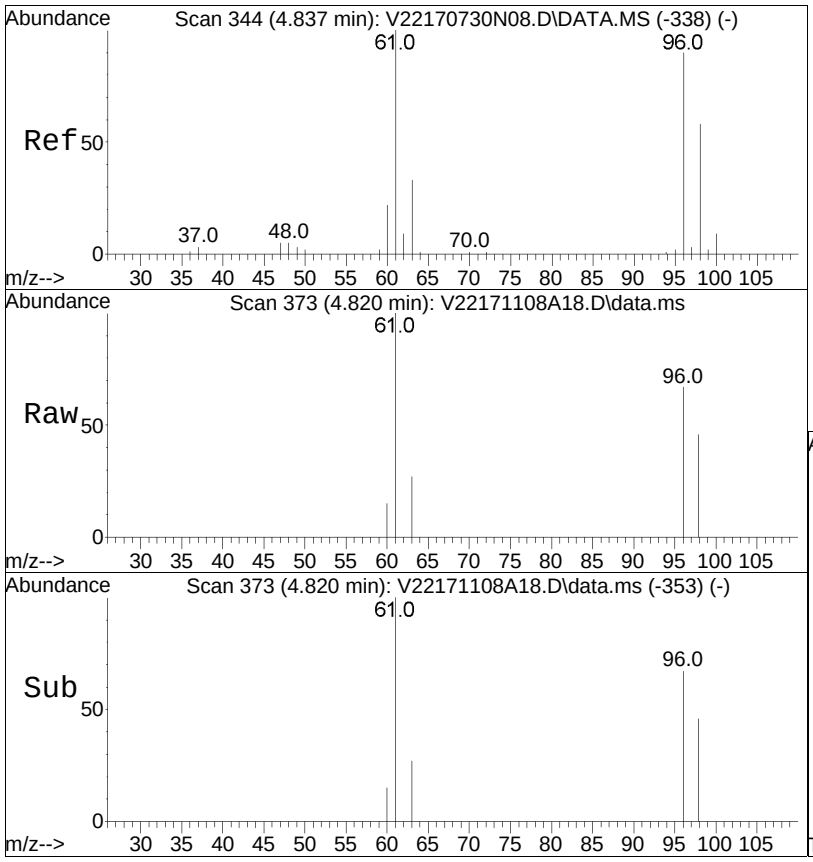
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A18.D
Acq On : 08 Nov 2017 03:28 pm
Operator : VOA122:MKS
Sample : l1739725-03,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 08 17:31:40 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V22171108A02.D•

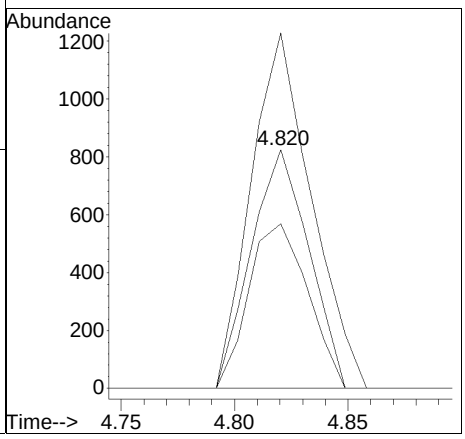


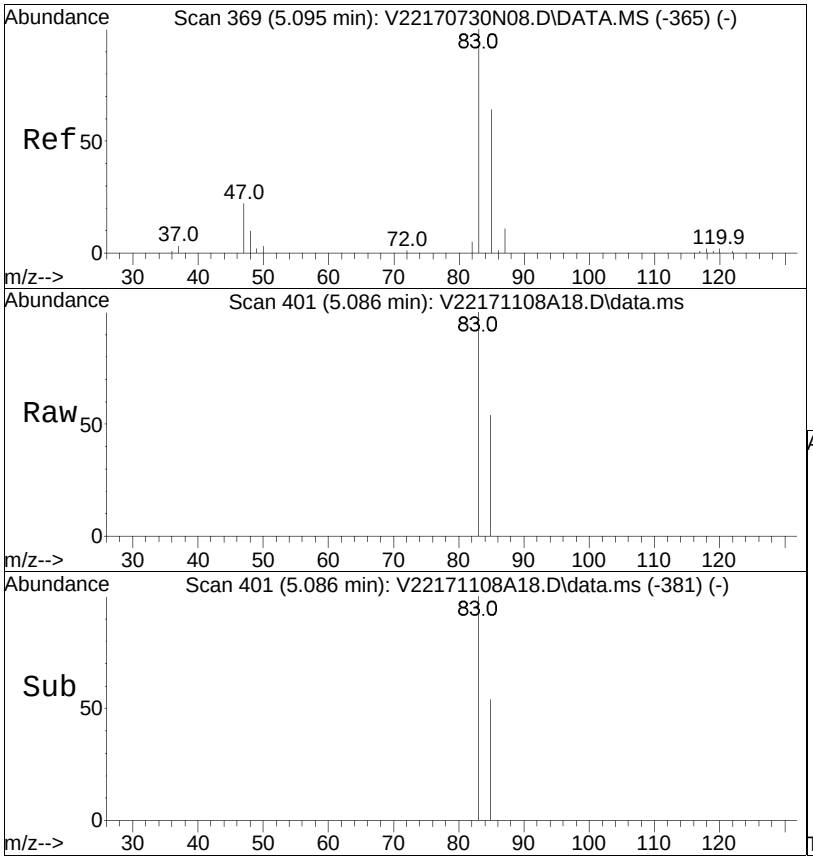


#30
cis-1,2-Dichloroethene
Concen: 0.20 ug/L
RT: 4.820 min Scan# 373
Delta R.T. -0.007 min
Lab File: V22171108A18.D
Acq: 08 Nov 2017 03:28 pm

Tgt Ion: 96 Resp: 1457

Ion	Ratio	Lower	Upper
96	100		
61	155.8	90.3	135.5#
98	70.7	50.8	76.2

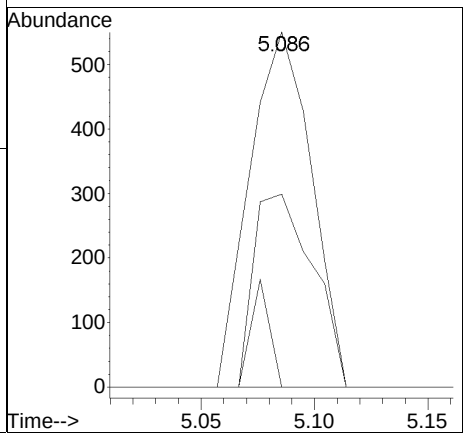


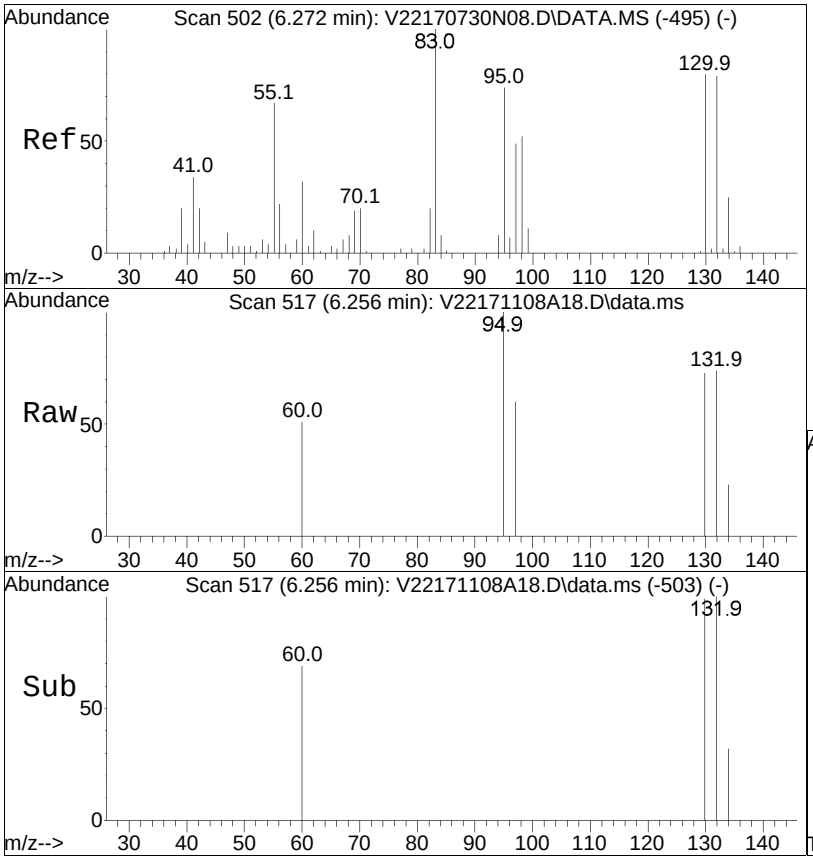


#34
Chloroform
Concen: 0.09 ug/L
RT: 5.086 min Scan# 401
Delta R.T. -0.009 min
Lab File: V22171108A18.D
Acq: 08 Nov 2017 03:28 pm

Tgt Ion: 83 Resp: 1044

Ion	Ratio	Lower	Upper
83	100		
85	52.0	42.4	88.2
47	9.1	14.0	29.0#
48	0.0	6.9	14.3#

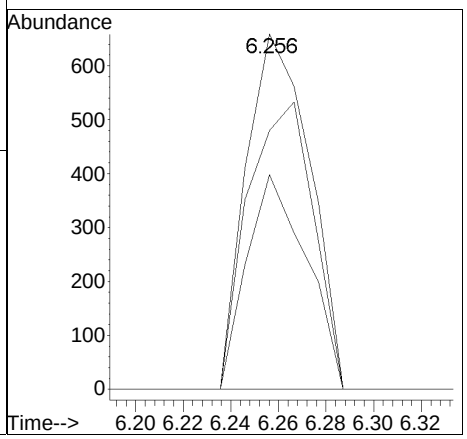


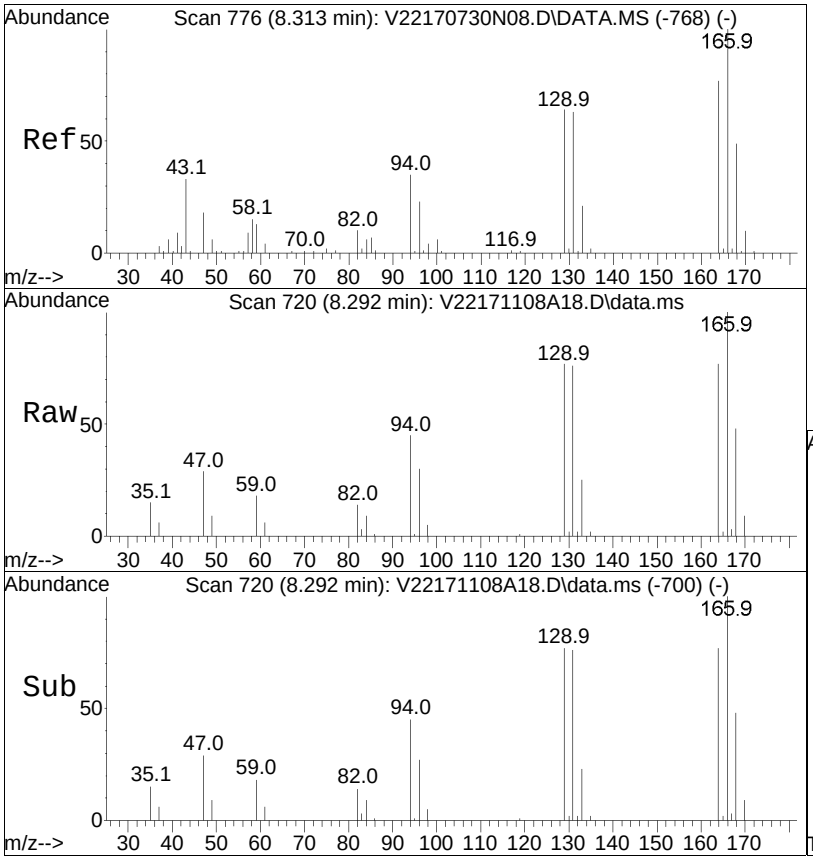


#51
Trichloroethene
Concen: 0.18 ug/L
RT: 6.256 min Scan# 517
Delta R.T. -0.016 min
Lab File: V22171108A18.D
Acq: 08 Nov 2017 03:28 pm

Tgt Ion: 95 Resp: 1223

Ion	Ratio	Lower	Upper
95	100		
97	56.6	55.0	82.4
130	82.9	89.2	133.8#

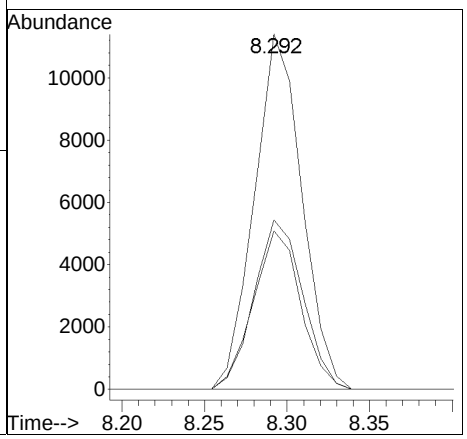




#66
Tetrachloroethene
Concen: 2.94 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A18.D
Acq: 08 Nov 2017 03:28 pm

Tgt Ion:166 Resp: 22857

Ion	Ratio	Lower	Upper
166	100		
168	48.9	27.8	67.8
94	44.7	16.7	56.7



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22171108A18.D	Operator	: VOA122:MKS
Date Inj'd	: 11/8/2017 3:28 pm	Instrument	: VOA122
Sample	: l1739725-03,31,10,10,,a	Quant Date	: 11/8/2017 5:28 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A19.D
Acq On : 08 Nov 2017 03:56 pm
Operator : VOA122:MKS
Sample : l1739725-01,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 08 17:33:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.091	96	239411	10.000 ug/L	0.00
Standard Area 1 = 269066			Recovery =	88.98%	
62) Chlorobenzene-d5	9.646	117	185999	10.000 ug/L	-0.01
Standard Area 1 = 210100			Recovery =	88.53%	
83) 1,4-Dichlorobenzene-d4	12.341	152	90213	10.000 ug/L	0.00
Standard Area 1 = 107092			Recovery =	84.24%	
System Monitoring Compounds					
38) Dibromofluoromethane	5.265	113	60172	9.725 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.25%	
46) 1,2-Dichloroethane-d4	5.802	65	64821	11.318 ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.18%	
63) Toluene-d8	7.790	98	238496	10.667 ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.67%	
87) 4-Bromofluorobenzene	11.133	95	84386	10.828 ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.28%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.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	3.011	76	218	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.598	43	1022	1.366 ug/L #	66
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
21) Methyl tert-butyl ether	3.816	73	660	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
27) Acrylonitrile	0.000		0	N.D.	
29) Vinyl acetate	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
31) 2,2-Dichloropropane	0.000		0	N.D.	
32) Bromochloromethane	0.000		0	N.D.	
34) Chloroform	5.085	83	369	N.D.	

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A19.D
Acq On : 08 Nov 2017 03:56 pm
Operator : VOA122:MKS
Sample : l1739725-01,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 08 17:33:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon tetrachloride	0.000		0	N.D.		
39) 1,1,1-Trichloroethane	5.294	97	215	N.D.		
41) 2-Butanone	0.000		0	N.D.		
42) 1,1-Dichloropropene	0.000		0	N.D.		
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
51) Trichloroethene	6.256	95	7040	1.052	ug/L	96
53) Dibromomethane	0.000		0	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	0.000		0	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D. d		
66) Tetrachloroethene	8.292	166	764701	97.799	ug/L	93
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
73) 1,3-Dichloropropane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.		
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.646	91	210	N.D.		
79) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
88) Bromobenzene	0.000		0	N.D.		
89) n-Propylbenzene	11.142	91	194	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
92) 4-Ethyltoluene	0.000		0	N.D.		
93) 2-Chlorotoluene	0.000		0	N.D.		
94) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
95) 1,2,3-Trichloropropane	0.000		0	N.D.		
96) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
97) 4-Chlorotoluene	0.000		0	N.D.		
98) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A19.D
Acq On : 08 Nov 2017 03:56 pm
Operator : VOA122:MKS
Sample : l1739725-01,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 08 17:33:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
102) sec-Butylbenzene	0.000		0		N.D.	
103) p-Isopropyltoluene	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
106) p-Diethylbenzene	0.000		0		N.D.	
107) n-Butylbenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
109) 1,2,4,5-Tetramethylben...	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
112) Hexachlorobutadiene	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
114) Naphthalene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

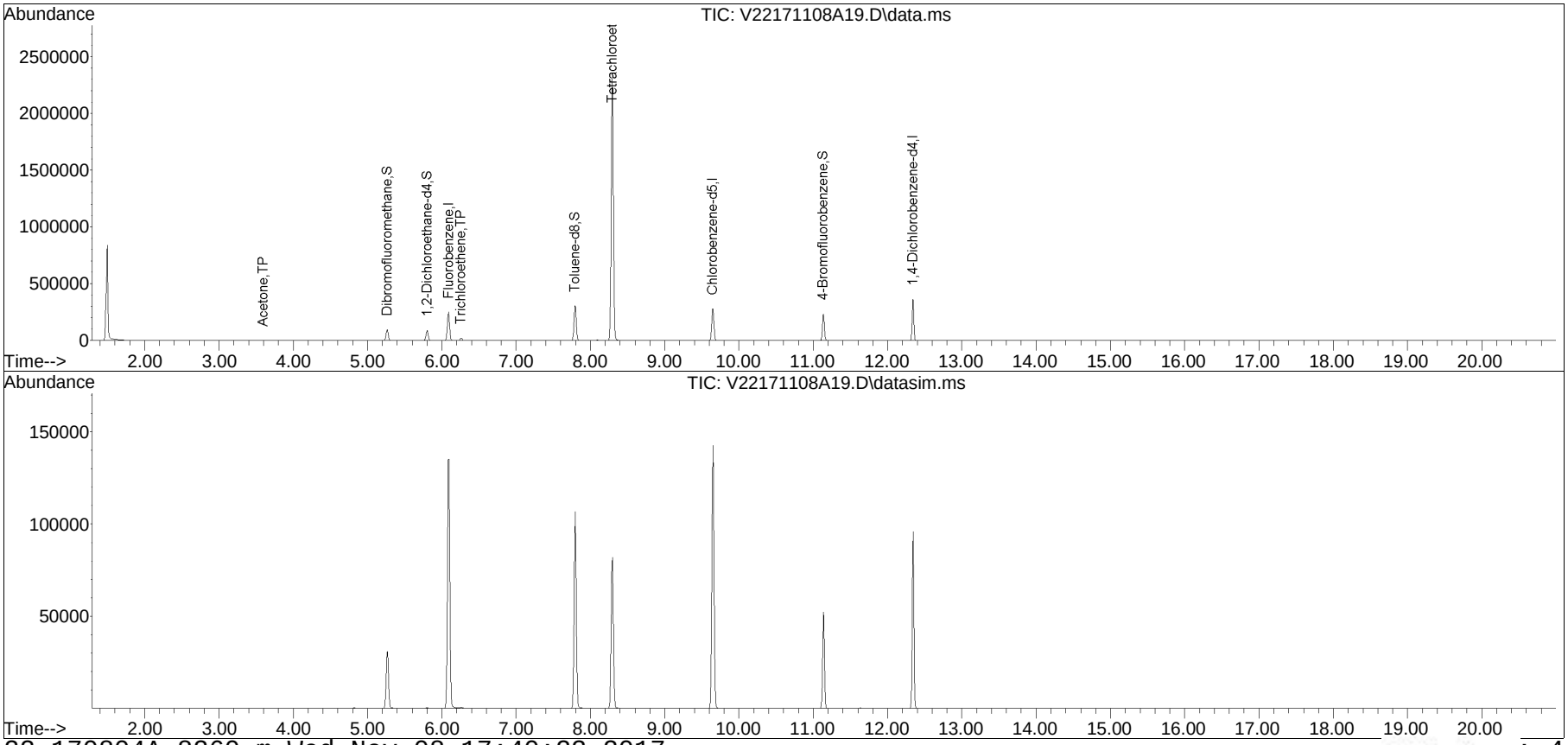
(#) = qualifier out of range (m) = manual integration (+) = signals summed

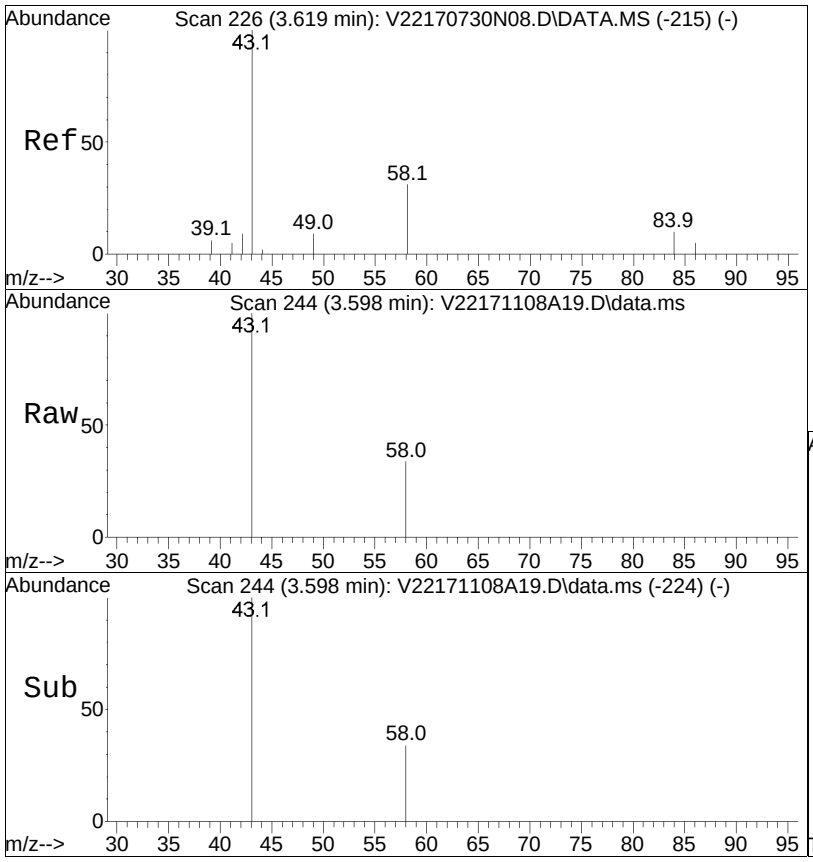
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A19.D
Acq On : 08 Nov 2017 03:56 pm
Operator : VOA122:MKS
Sample : l1739725-01,31,10,10,,a
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 08 17:33:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V22171108A02.D•

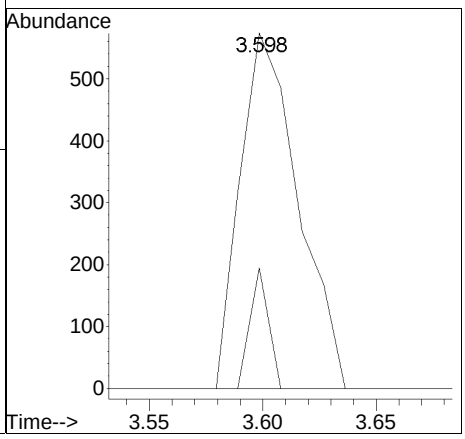


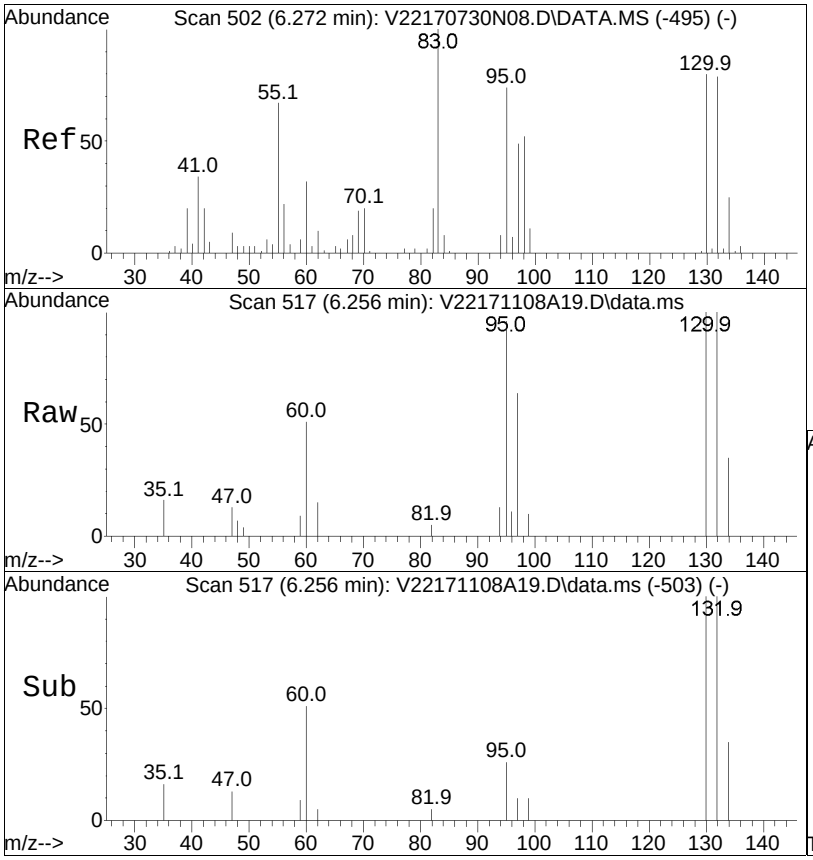


#17
Acetone
Concen: 1.37 ug/L
RT: 3.598 min Scan# 244
Delta R.T. -0.011 min
Lab File: V22171108A19.D
Acq: 08 Nov 2017 03:56 pm

Tgt Ion: 43 Resp: 1022

Ion	Ratio	Lower	Upper
43	100		
58	10.9	23.1	34.7#

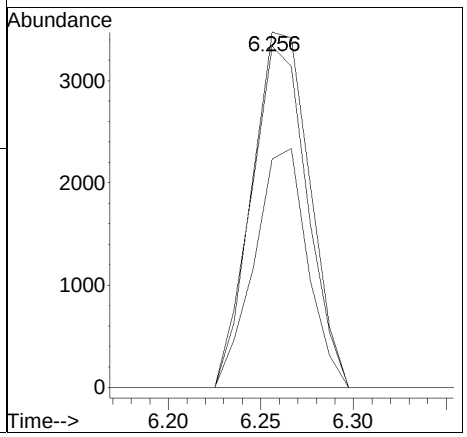


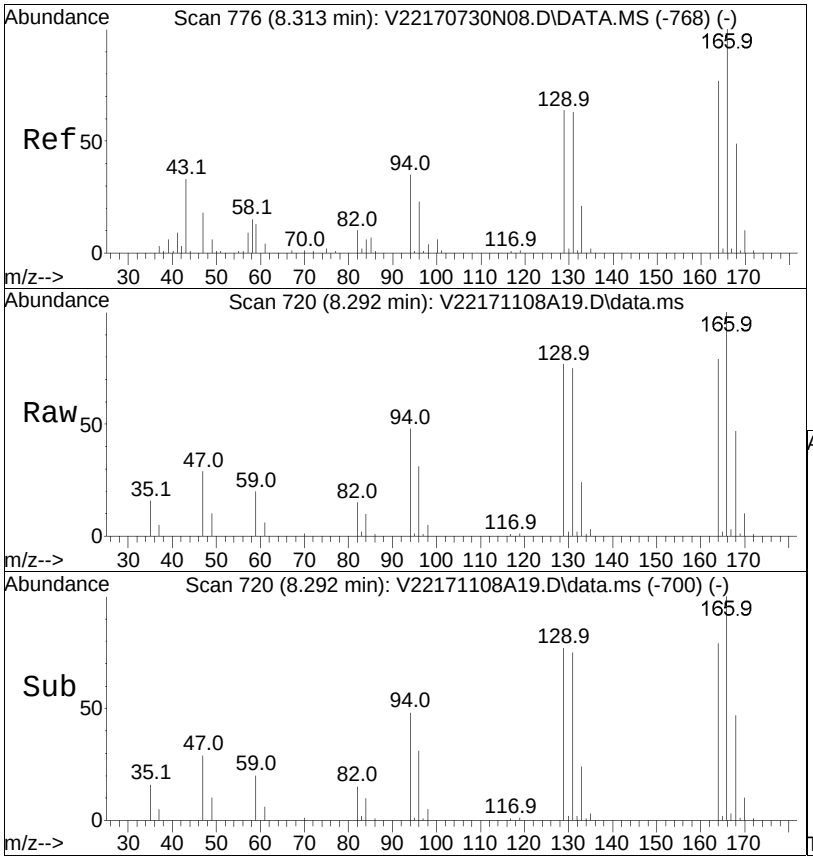


#51
Trichloroethene
Concen: 1.05 ug/L
RT: 6.256 min Scan# 517
Delta R.T. -0.016 min
Lab File: V22171108A19.D
Acq: 08 Nov 2017 03:56 pm

Tgt Ion: 95 Resp: 7040

Ion	Ratio	Lower	Upper
95	100		
97	66.4	55.0	82.4
130	106.9	89.2	133.8

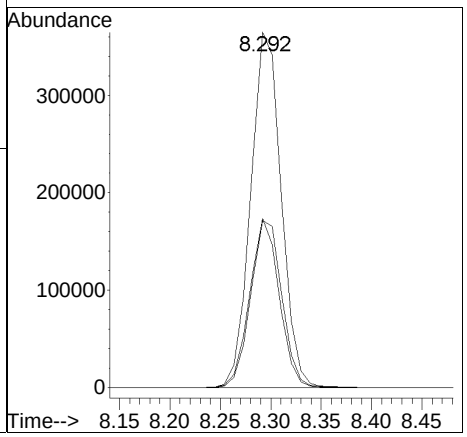




#66
Tetrachloroethene
Concen: 97.80 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A19.D
Acq: 08 Nov 2017 03:56 pm

Tgt Ion:166 Resp: 764701

Ion	Ratio	Lower	Upper
166	100		
168	47.9	27.8	67.8
94	45.9	16.7	56.7



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22171108A19.D	Operator	: VOA122:MKS
Date Inj'd	: 11/8/2017 3:56 pm	Instrument	: VOA122
Sample	: l1739725-01,31,10,10,,a	Quant Date	: 11/8/2017 5:28 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A06.D
Acq On : 8 Nov 2017 10:31 am
Operator : VOA101:PD
Sample : l1739725-04,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 10:51:51 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.872	96	315585	10.000 ug/L	0.00
Standard Area 1 = 327258			Recovery =	96.43%	
59) Chlorobenzene-d5	9.675	117	237695	10.000 ug/L	0.00
Standard Area 1 = 249731			Recovery =	95.18%	
79) 1,4-Dichlorobenzene-d4	12.600	152	110259	10.000 ug/L	0.00
Standard Area 1 = 115791			Recovery =	95.22%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.026	113	74379	10.072 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.72%	
43) 1,2-Dichloroethane-d4	5.577	65	80292	11.040 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.40%	
60) Toluene-d8	7.678	98	317685	9.612 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.12%	
83) 4-Bromofluorobenzene	11.274	95	113924	9.214 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.14%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.676	50	180	N.D.	
4) Vinyl chloride	1.752	62	1794	0.192 ug/L	80
5) Bromomethane	0.000		0	N.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	2.778	76	527	N.D.	
15) Methylene chloride	3.297	84	501	0.084 ug/L #	42
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	4.579	96	7813	1.155 ug/L #	74
29) 2,2-Dichloropropane	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A06.D
Acq On : 8 Nov 2017 10:31 am
Operator : VOA101:PD
Sample : l1739725-04,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 10:51:51 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.457	78	115	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.063	95	6304	0.933	ug/L	96
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	7.754	92	203	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.224	166	136147	19.858	ug/L	98
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	9.680	91	188	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	9.986	106	245	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.935	105	310	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A06.D
Acq On : 8 Nov 2017 10:31 am
Operator : VOA101:PD
Sample : l1739725-04,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 10:51:51 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	12.174	105	236		N.D.	
98) sec-Butylbenzene	12.272	105	342		N.D.	
99) p-Isopropyltoluene	12.436	119	55		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
105) 1,2,4,5-Tetramethylben...	13.740	119	50		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.	

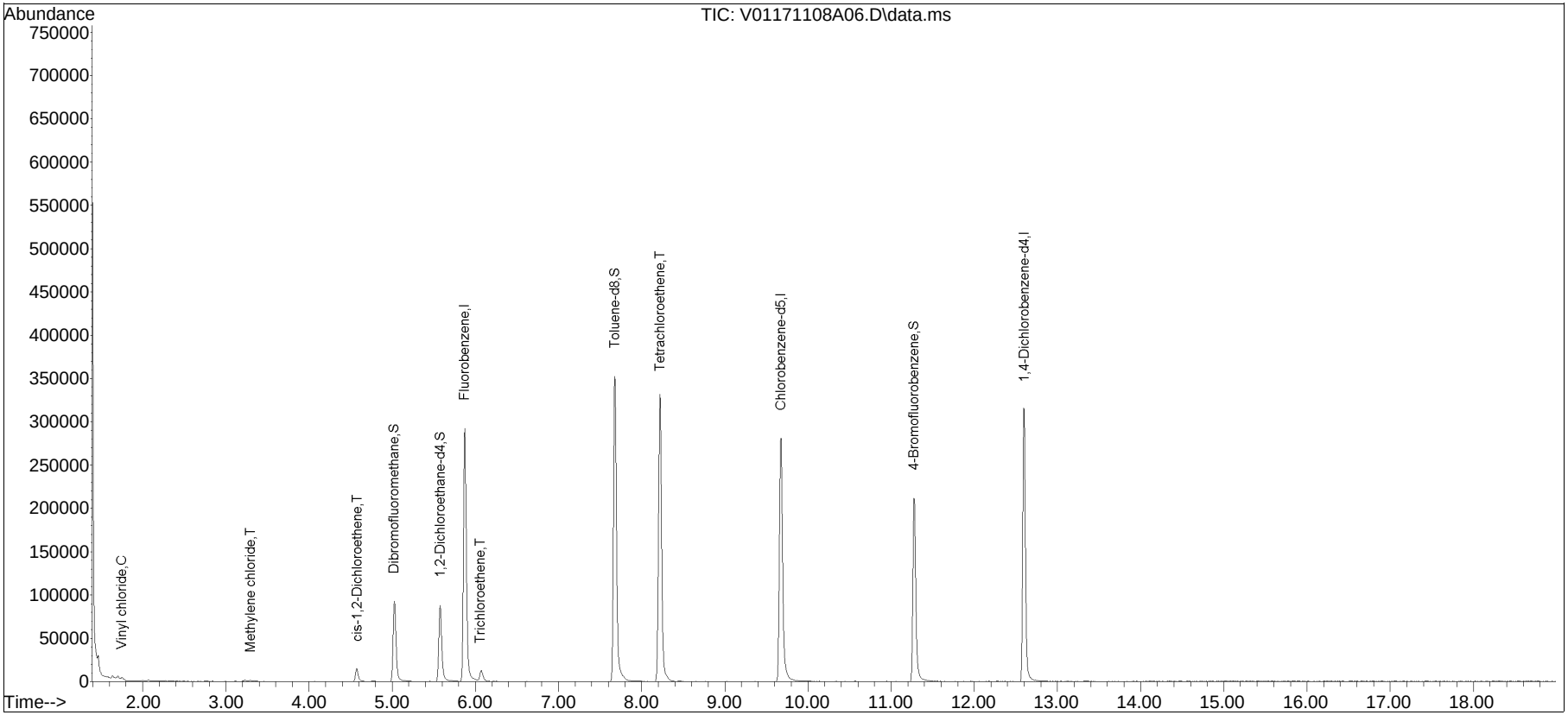
(#) = qualifier out of range (m) = manual integration (+) = signals summed

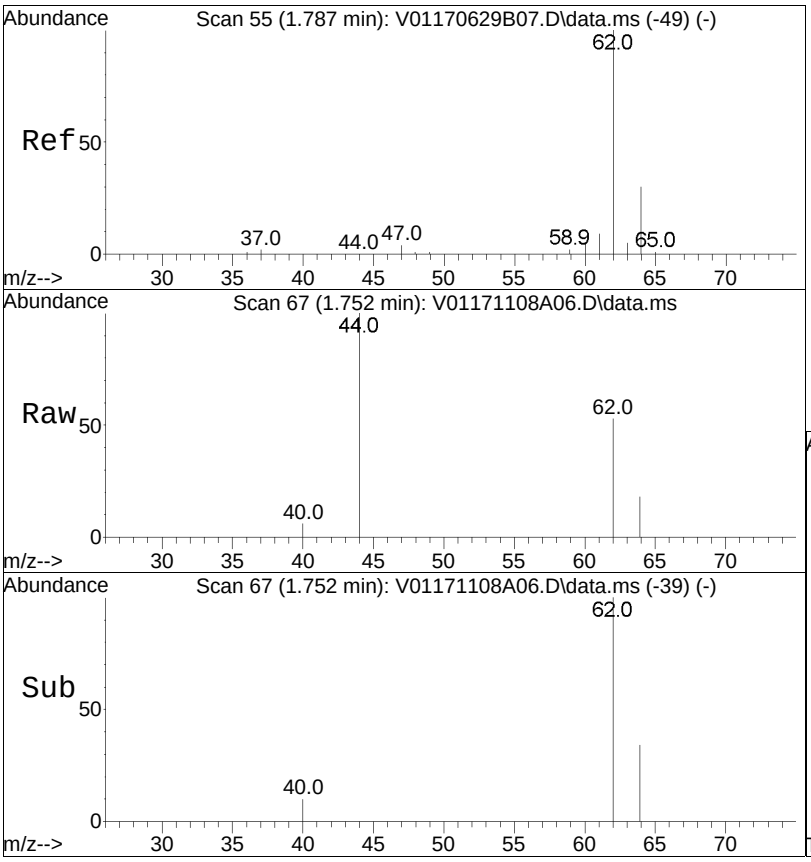
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A06.D
Acq On : 8 Nov 2017 10:31 am
Operator : VOA101:PD
Sample : l1739725-04,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 08 10:51:51 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

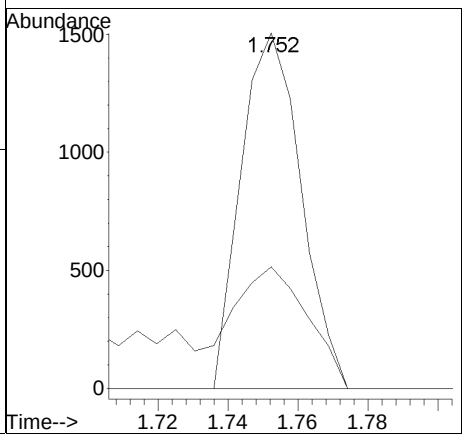


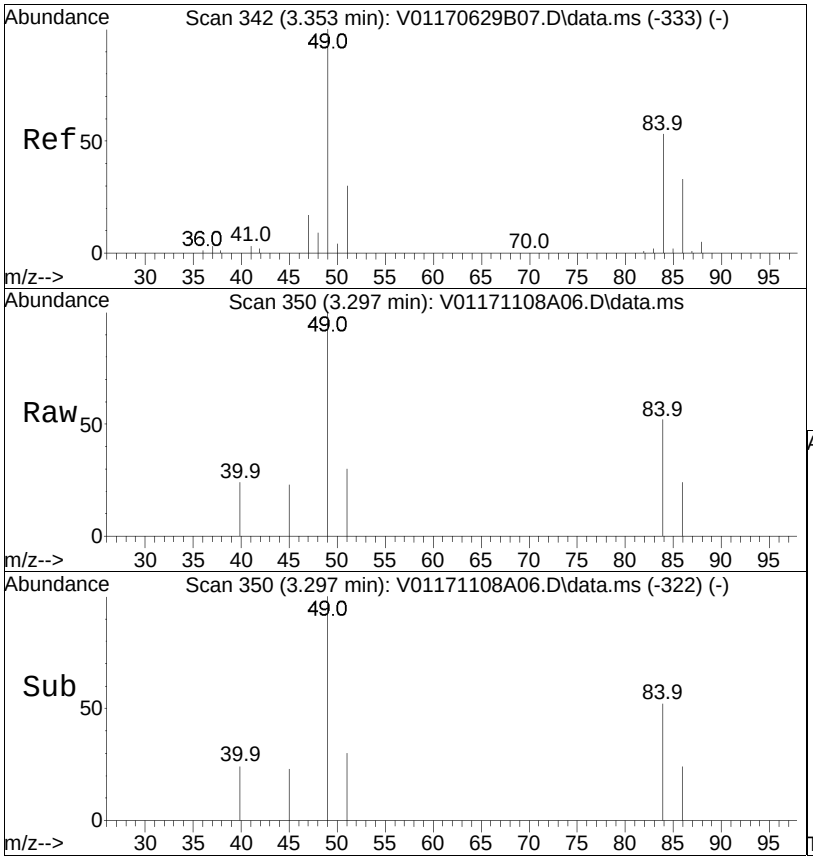


#4
Vinyl chloride
Concen: 0.19 ug/L
RT: 1.752 min Scan# 67
Delta R.T. 0.003 min
Lab File: V01171108A06.D
Acq: 8 Nov 2017 10:31 am

Tgt Ion: 62 Resp: 1794

Ion	Ratio	Lower	Upper
62	100		
64	43.5	12.3	52.3

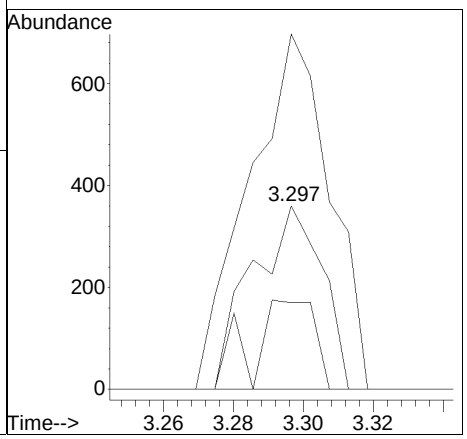


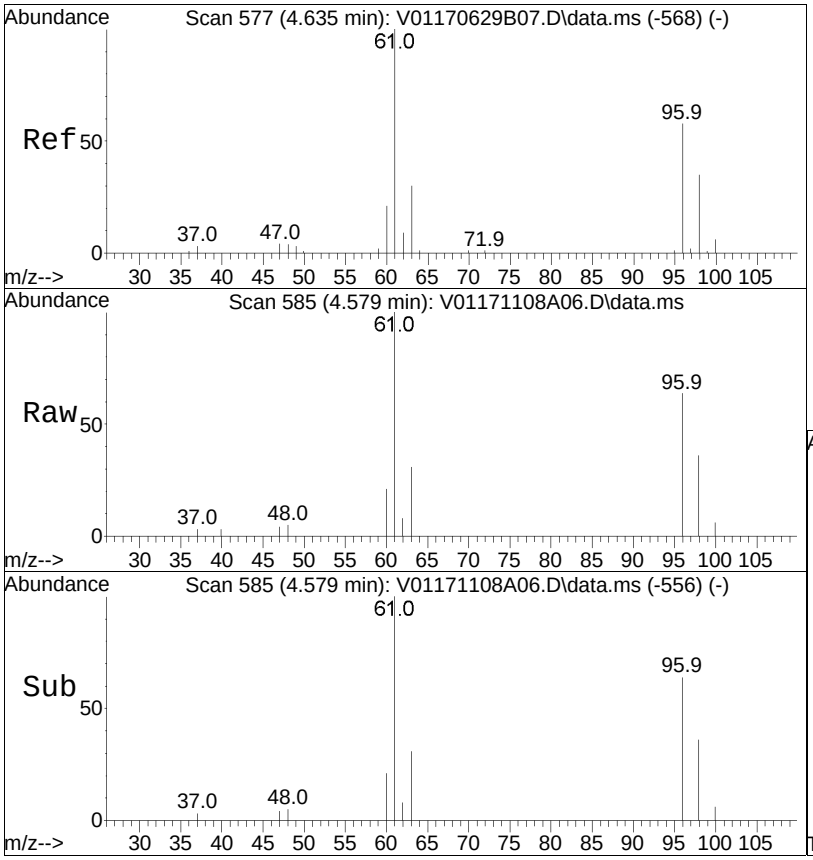


#15
Methylene chloride
Concen: 0.08 ug/L
RT: 3.297 min Scan# 350
Delta R.T. 0.004 min
Lab File: V01171108A06.D
Acq: 8 Nov 2017 10:31 am

Tgt Ion: 84 Resp: 501

Ion	Ratio	Lower	Upper
84	100		
86	43.5	41.0	85.2
49	223.8	88.5	183.9#

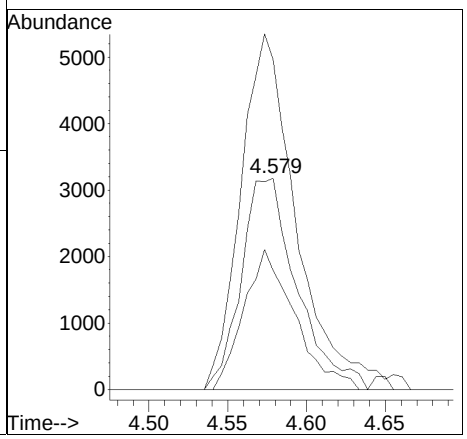


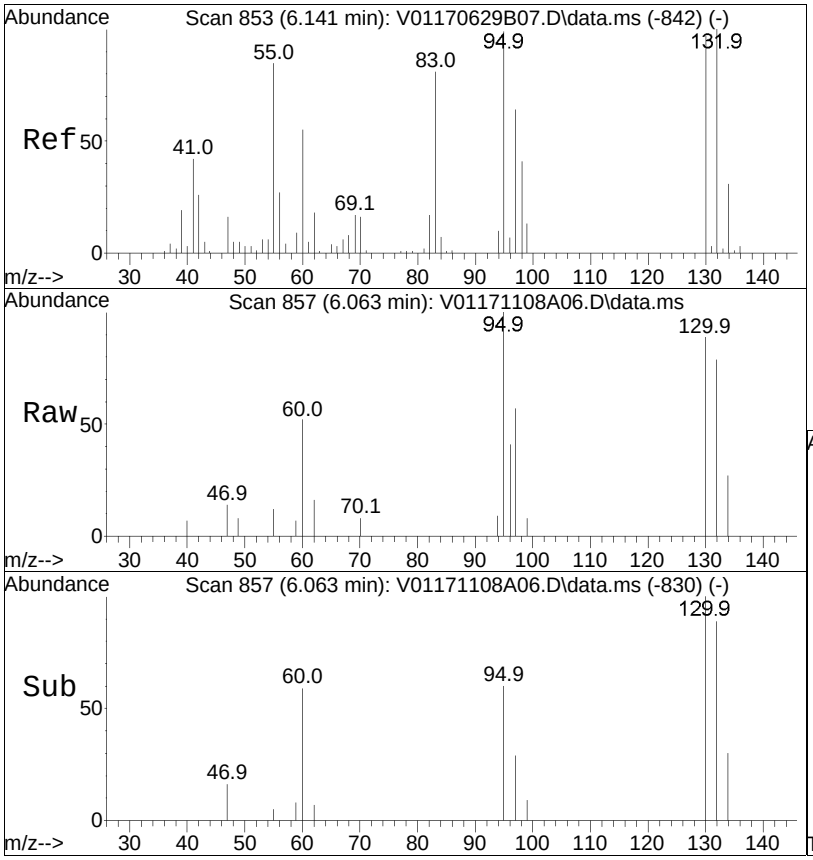


#28
cis-1,2-Dichloroethene
Concen: 1.15 ug/L
RT: 4.579 min Scan# 585
Delta R.T. 0.009 min
Lab File: V01171108A06.D
Acq: 8 Nov 2017 10:31 am

Tgt Ion: 96 Resp: 7813

Ion	Ratio	Lower	Upper
96	100		
61	169.8	101.4	152.0#
98	60.7	50.2	75.4

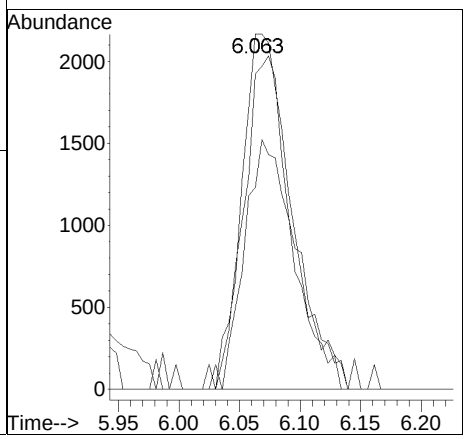


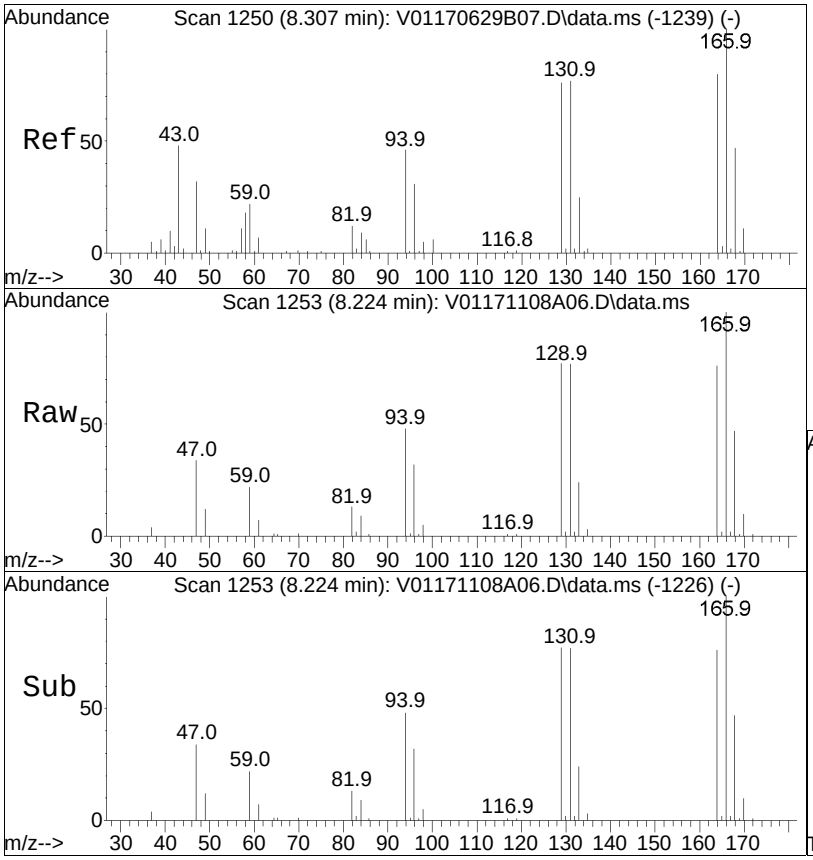


#48
Trichloroethene
Concen: 0.93 ug/L
RT: 6.063 min Scan# 857
Delta R.T. -0.002 min
Lab File: V01171108A06.D
Acq: 8 Nov 2017 10:31 am

Tgt Ion: 95 Resp: 6304

Ion	Ratio	Lower	Upper
95	100		
97	72.9	55.1	82.7
130	87.4	71.9	107.9

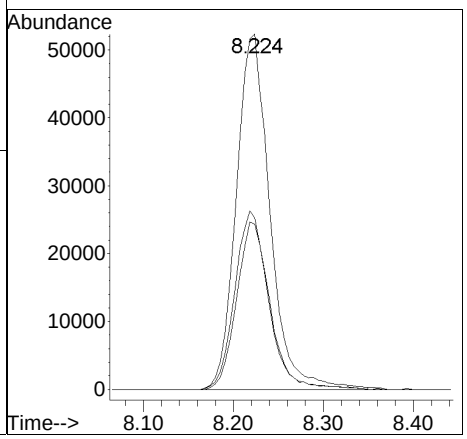




#63
Tetrachloroethene
Concen: 19.86 ug/L
RT: 8.224 min Scan# 1253
Delta R.T. -0.001 min
Lab File: V01171108A06.D
Acq: 8 Nov 2017 10:31 am

Tgt Ion:166 Resp: 136147

Ion	Ratio	Lower	Upper
166	100		
168	46.9	26.8	66.8
94	50.4	33.1	73.1



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A06.D	Operator	: VOA101:PD
Date Inj'd	: 11/8/2017 10:31 am	Instrument	: VOA 101
Sample	: l1739725-04,31,10,10,,a	Quant Date	: 11/8/2017 10:51 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A07.D
Acq On : 8 Nov 2017 10:59 am
Operator : VOA101:PD
Sample : l1739725-05D,31,5,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 08 11:19:24 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.872	96	309349	10.000 ug/L	0.00
Standard Area 1 = 327258			Recovery =	94.53%	
59) Chlorobenzene-d5	9.675	117	232770	10.000 ug/L	0.00
Standard Area 1 = 249731			Recovery =	93.21%	
79) 1,4-Dichlorobenzene-d4	12.600	152	107543	10.000 ug/L	0.00
Standard Area 1 = 115791			Recovery =	92.88%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.026	113	72733	10.048 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.48%	
43) 1,2-Dichloroethane-d4	5.577	65	78091	10.954 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.54%	
60) Toluene-d8	7.678	98	312134	9.644 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.44%	
83) 4-Bromofluorobenzene	11.279	95	112822	9.356 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.56%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.703	50	105	N.D.	
4) Vinyl chloride	1.752	62	371	N.D.	
5) Bromomethane	0.000		0	N.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	2.778	76	438	N.D.	
15) Methylene chloride	3.291	84	811	0.140 ug/L #	48
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	4.573	96	2979	0.449 ug/L #	74
29) 2,2-Dichloropropane	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A07.D
Acq On : 8 Nov 2017 10:59 am
Operator : VOA101:PD
Sample : l1739725-05D,31,5,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 08 11:19:24 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.037	97	56	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	5.659	62	53	N.D.		
48) Trichloroethene	6.068	95	15565	2.351	ug/L	96
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	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.218	166	446169	66.454	ug/L	99
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	9.675	91	200	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	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	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A07.D
Acq On : 8 Nov 2017 10:59 am
Operator : VOA101:PD
Sample : l1739725-05D,31,5,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 08 11:19:24 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	12.283	105	304		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.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.	

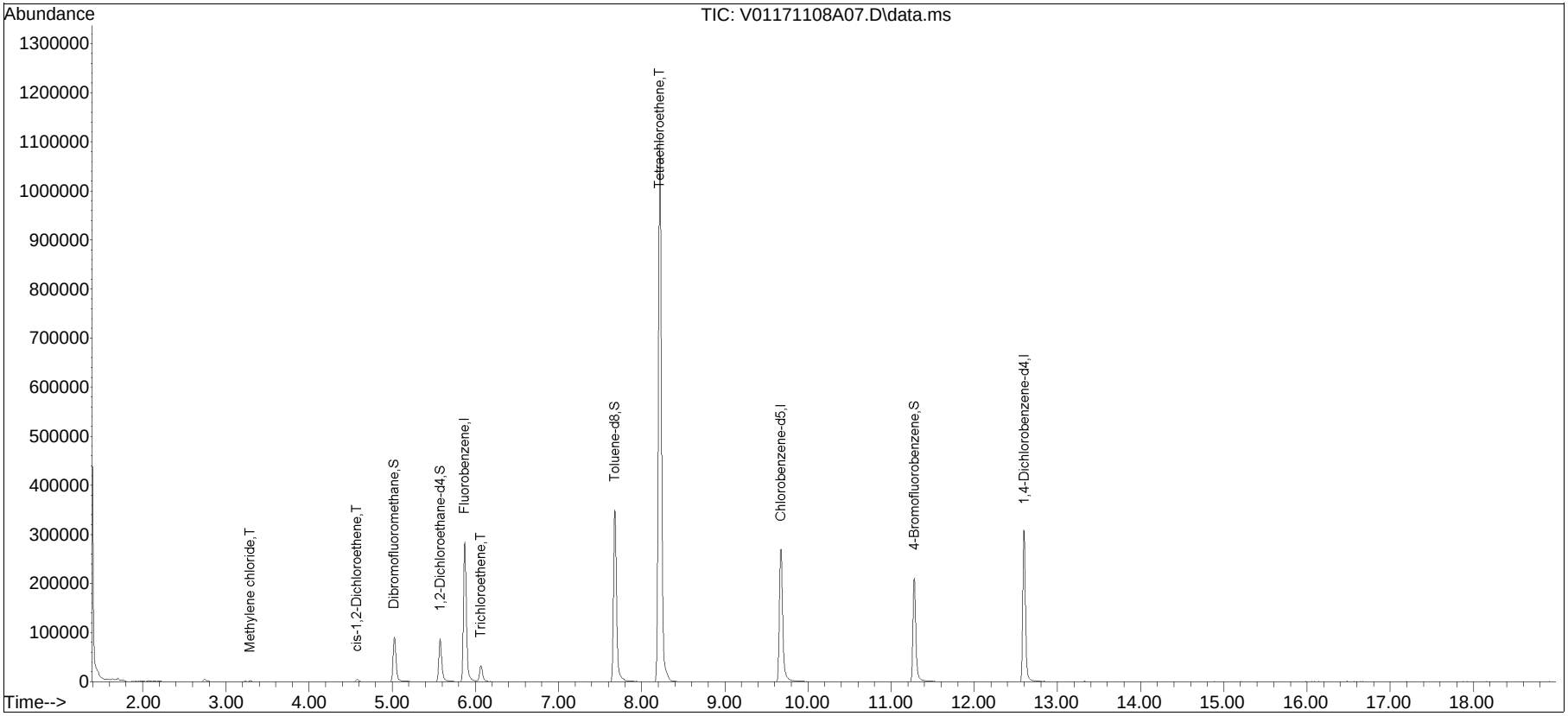
(#) = qualifier out of range (m) = manual integration (+) = signals summed

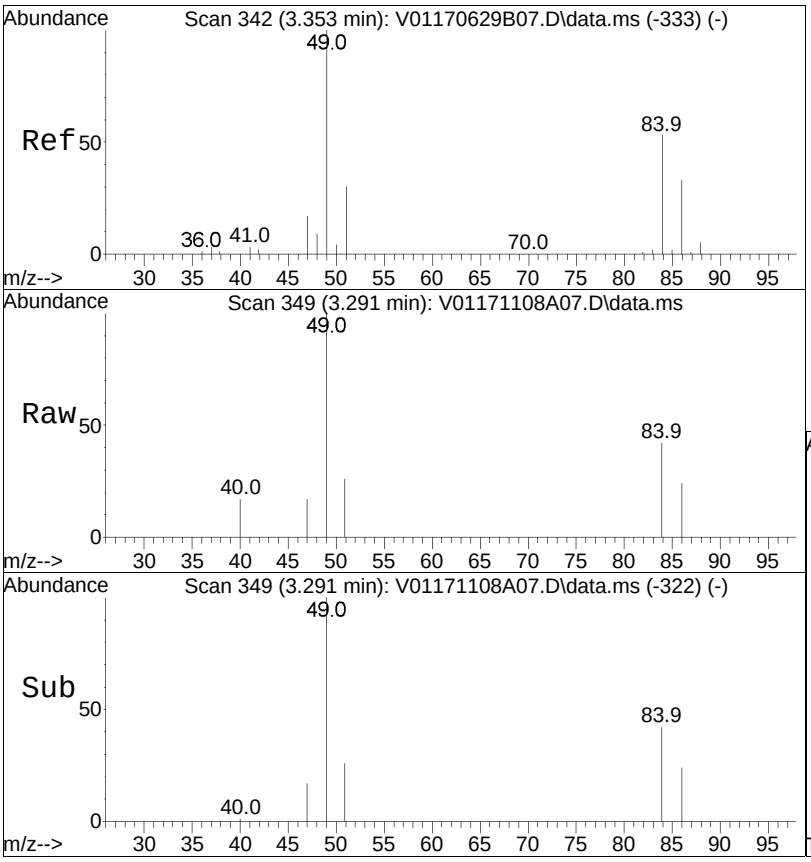
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A07.D
Acq On : 8 Nov 2017 10:59 am
Operator : VOA101:PD
Sample : l1739725-05D,31,5,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 08 11:19:24 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

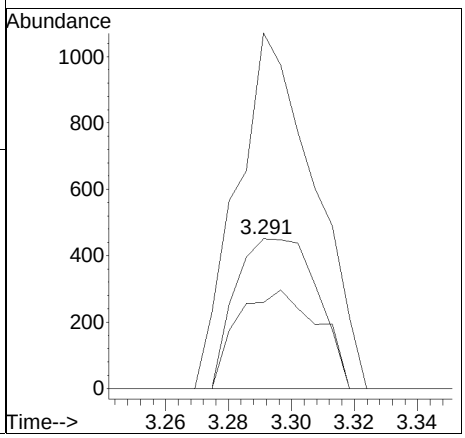


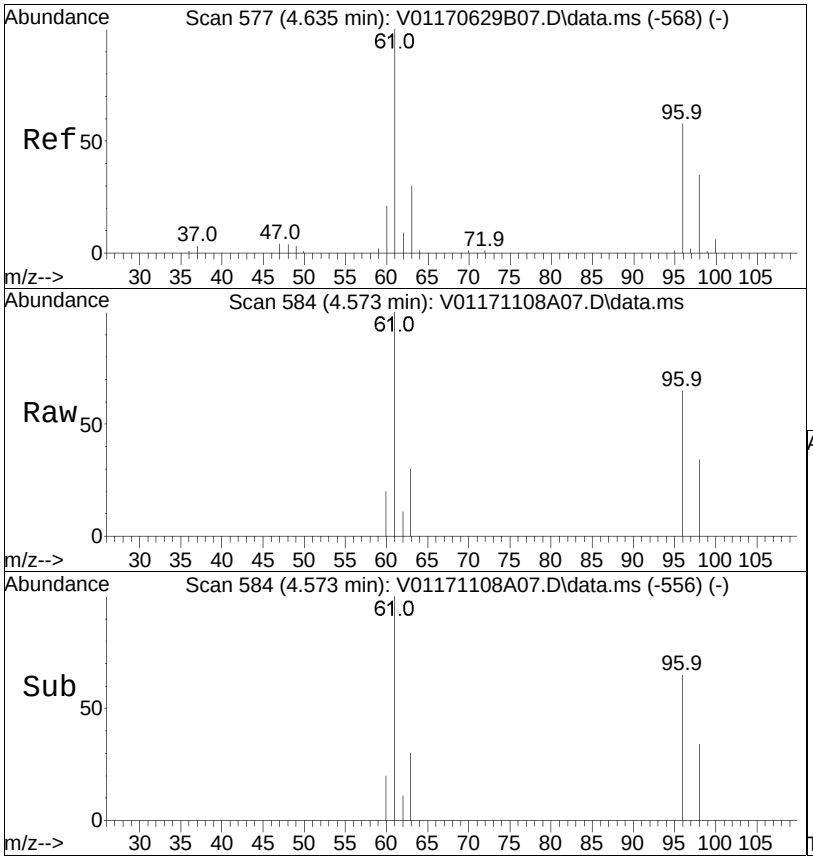


#15
Methylene chloride
Concen: 0.14 ug/L
RT: 3.291 min Scan# 349
Delta R.T. -0.002 min
Lab File: V01171108A07.D
Acq: 8 Nov 2017 10:59 am

Tgt Ion: 84 Resp: 811

Ion	Ratio	Lower	Upper
84	100		
86	65.2	41.0	85.2
49	225.0	88.5	183.9#

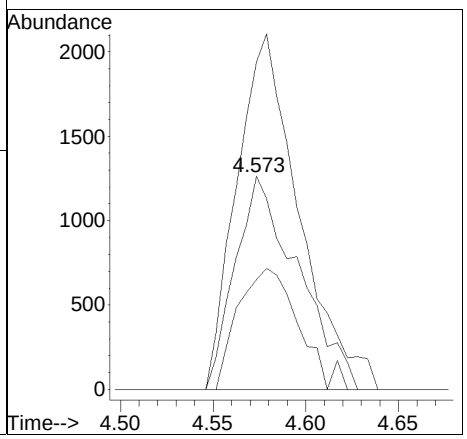


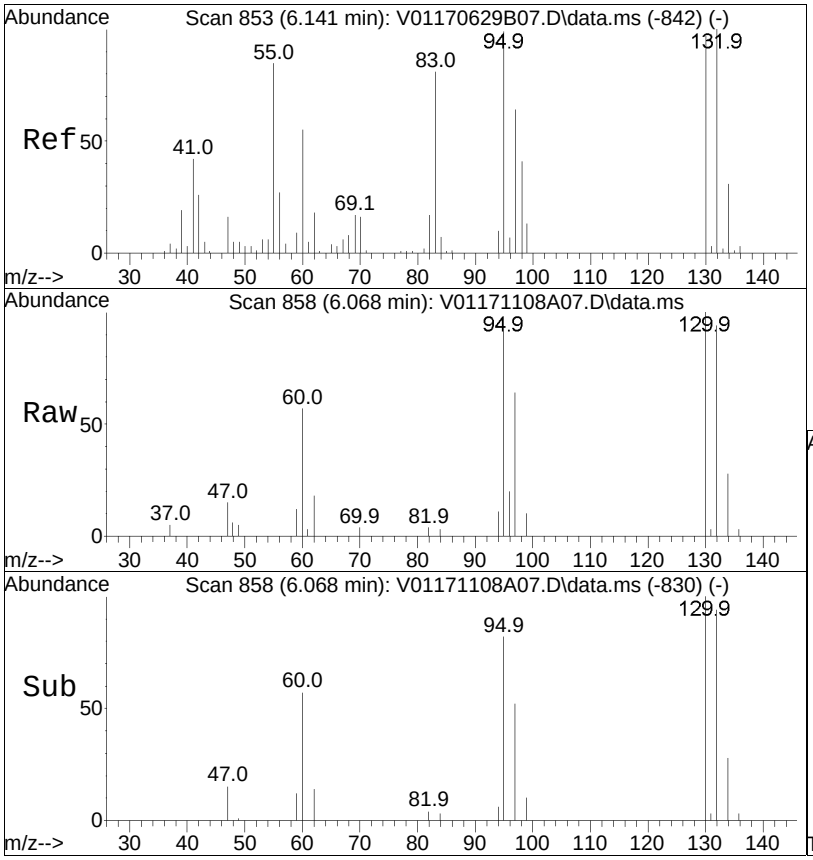


#28
cis-1,2-Dichloroethene
Concen: 0.45 ug/L
RT: 4.573 min Scan# 584
Delta R.T. 0.003 min
Lab File: V01171108A07.D
Acq: 8 Nov 2017 10:59 am

Tgt Ion: 96 Resp: 2979

Ion	Ratio	Lower	Upper
96	100		
61	165.5	101.4	152.0#
98	54.9	50.2	75.4

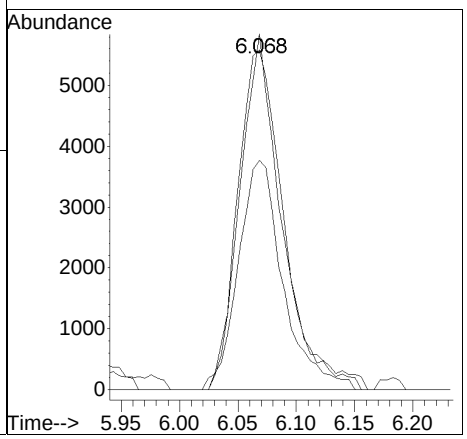


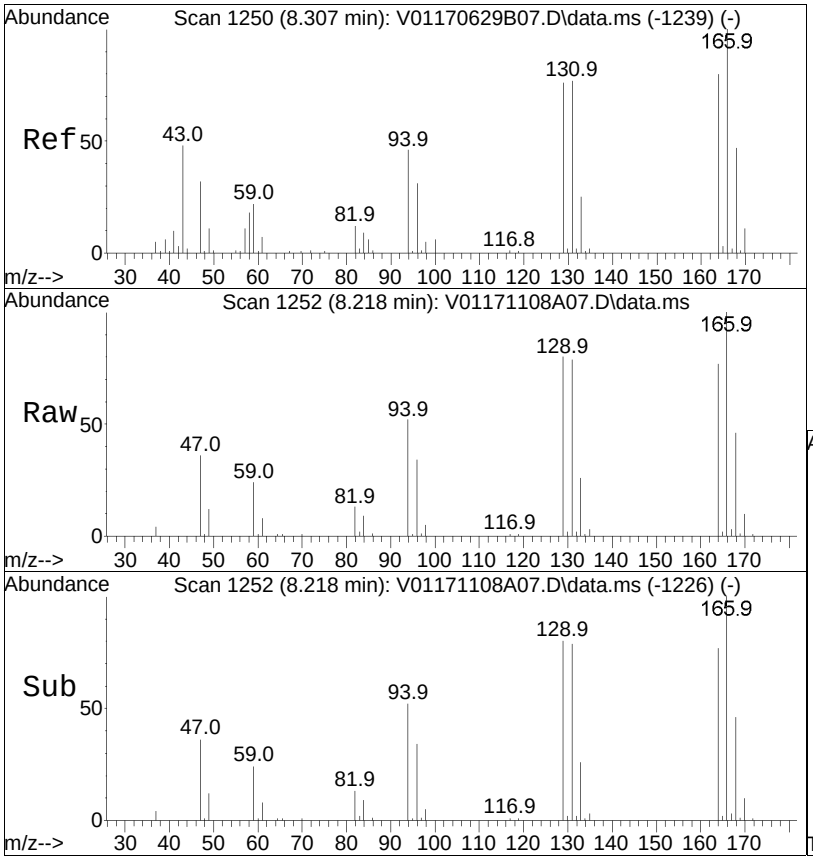


#48
Trichloroethene
Concen: 2.35 ug/L
RT: 6.068 min Scan# 858
Delta R.T. 0.003 min
Lab File: V01171108A07.D
Acq: 8 Nov 2017 10:59 am

Tgt Ion: 95 Resp: 15565

Ion	Ratio	Lower	Upper
95	100		
97	64.0	55.1	82.7
130	92.9	71.9	107.9

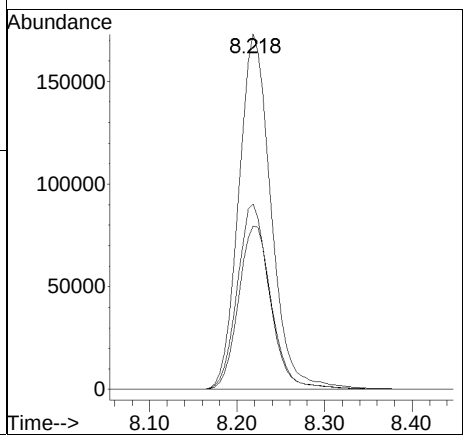




#63
Tetrachloroethene
Concen: 66.45 ug/L
RT: 8.218 min Scan# 1252
Delta R.T. -0.007 min
Lab File: V01171108A07.D
Acq: 8 Nov 2017 10:59 am

Tgt Ion:166 Resp: 446169

Ion	Ratio	Lower	Upper
166	100		
168	47.5	26.8	66.8
94	51.9	33.1	73.1



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A07.D	Operator	: VOA101:PD
Date Inj'd	: 11/8/2017 10:59 am	Instrument	: VOA 101
Sample	: l1739725-05D,31,5,10,,a	Quant Date	: 11/8/2017 11:19 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A09.D
Acq On : 8 Nov 2017 11:55 am
Operator : VOA101:PD
Sample : l1739725-06,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 12:17:13 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	309586	10.000	ug/L	0.00
Standard Area 1 = 327258			Recovery = 94.60%			
59) Chlorobenzene-d5	9.675	117	234088	10.000	ug/L	0.00
Standard Area 1 = 249731			Recovery = 93.74%			
79) 1,4-Dichlorobenzene-d4	12.600	152	108463	10.000	ug/L	0.00
Standard Area 1 = 115791			Recovery = 93.67%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.026	113	73205	10.105	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.05%			
43) 1,2-Dichloroethane-d4	5.577	65	79443	11.135	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.35%			
60) Toluene-d8	7.678	98	312910	9.613	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.13%			
83) 4-Bromofluorobenzene	11.274	95	113590	9.340	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.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	2.773	76	309	N.D.		
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	3.548	73	1164	0.115	ug/L #	78
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	4.846	83	2157	0.206	ug/L #	90

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A09.D
Acq On : 8 Nov 2017 11:55 am
Operator : VOA101:PD
Sample : l1739725-06,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 12:17:13 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.043	97	448	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	6.068	95	301	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	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.229	166	8460	1.253	ug/L	97
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	9.675	91	179	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	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	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A09.D
Acq On : 8 Nov 2017 11:55 am
Operator : VOA101:PD
Sample : l1739725-06,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 12:17:13 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
99) p-Isopropyltoluene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.611	146	51		N.D.	
101) 1,4-Dichlorobenzene	12.611	146	51		N.D.	
102) p-Diethylbenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.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.	

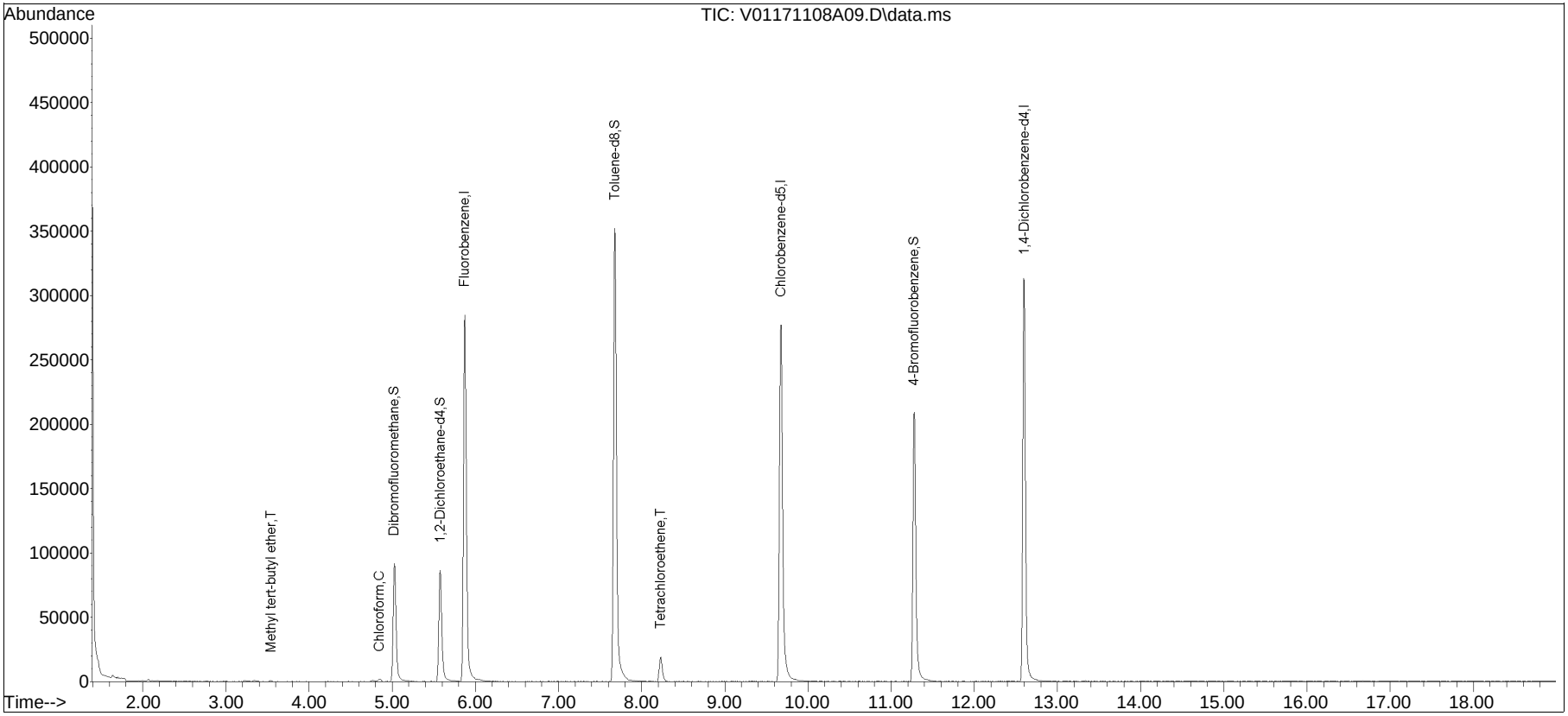
(#) = qualifier out of range (m) = manual integration (+) = signals summed

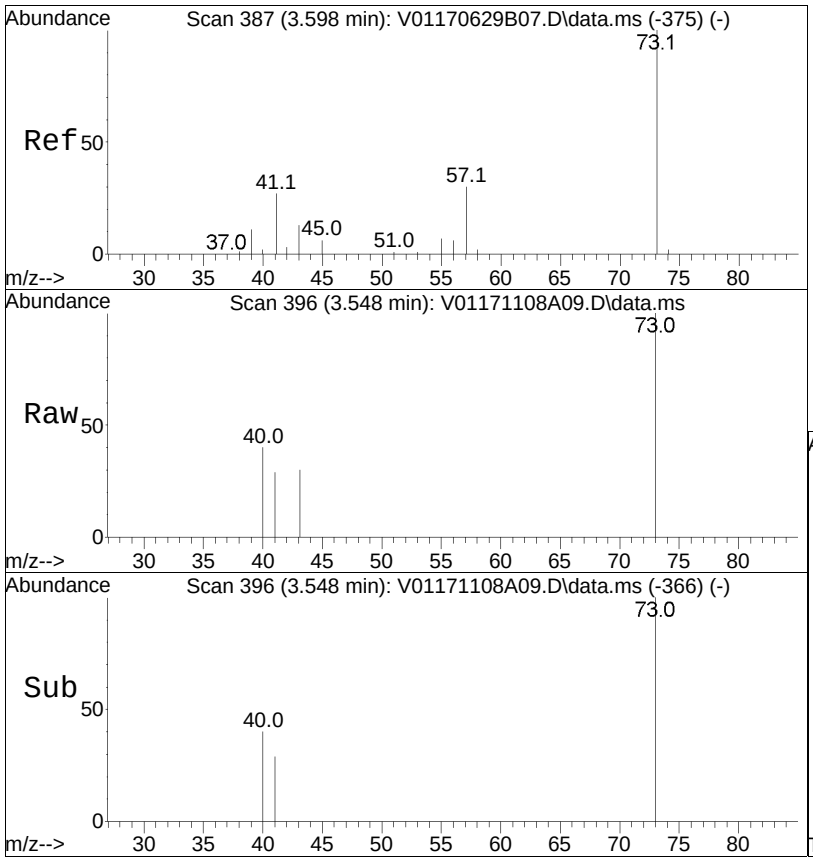
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A09.D
Acq On : 8 Nov 2017 11:55 am
Operator : VOA101:PD
Sample : l1739725-06,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 08 12:17:13 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

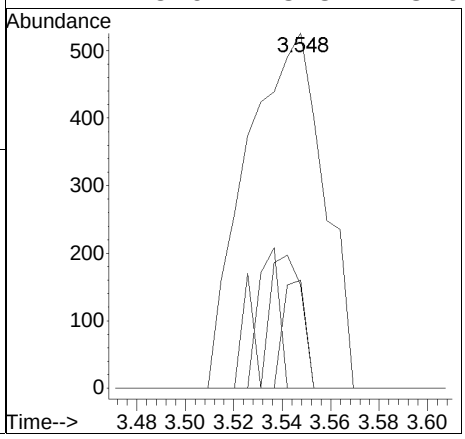


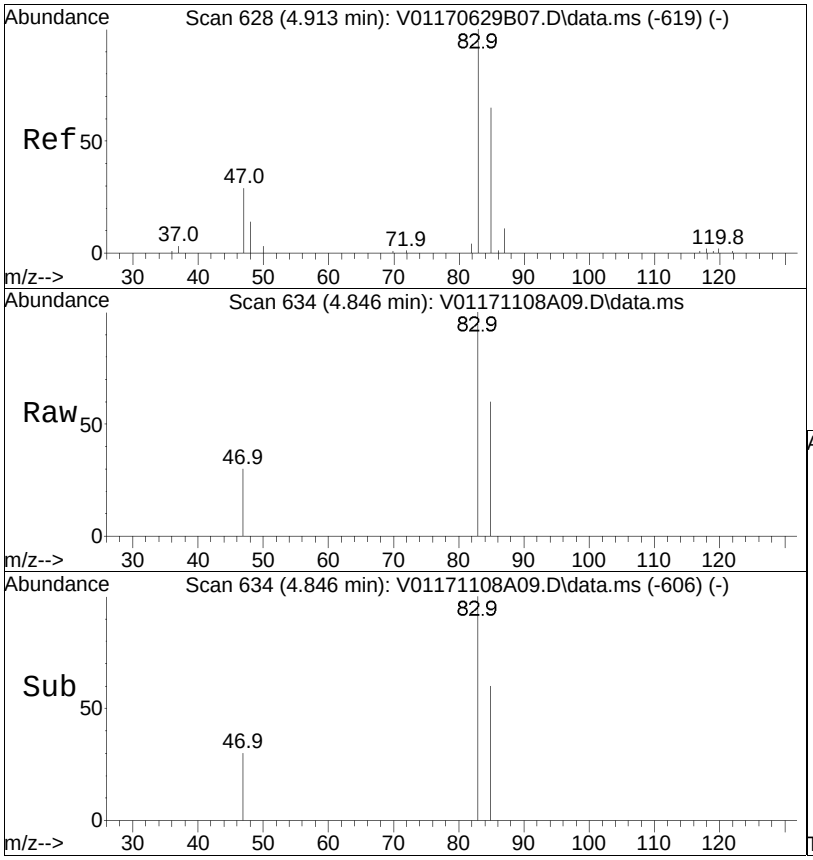


#20
Methyl tert-butyl ether
Concen: 0.12 ug/L
RT: 3.548 min Scan# 396
Delta R.T. 0.015 min
Lab File: V01171108A09.D
Acq: 8 Nov 2017 11:55 am

Tgt Ion: 73 Resp: 1164

Ion	Ratio	Lower	Upper
73	100		
57	10.7	13.8	28.8#
43	8.8	14.8	30.8#
41	15.0	13.8	28.6

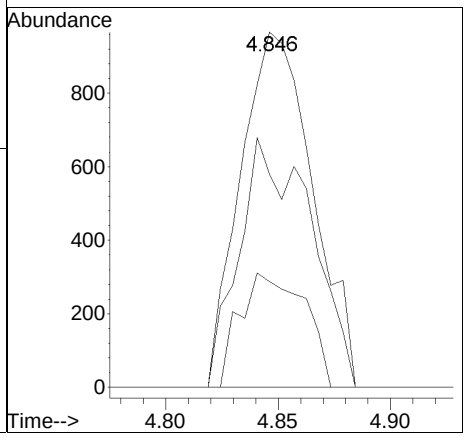


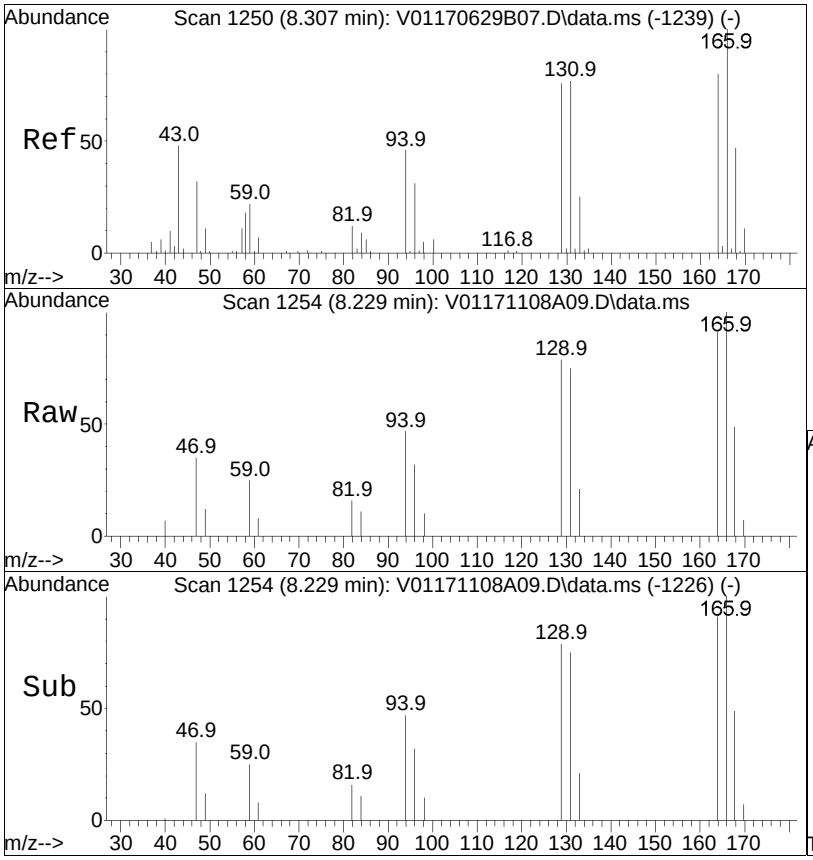


#32
Chloroform
Concen: 0.21 ug/L
RT: 4.846 min Scan# 634
Delta R.T. 0.004 min
Lab File: V01171108A09.D
Acq: 8 Nov 2017 11:55 am

Tgt Ion: 83 Resp: 2157

Ion	Ratio	Lower	Upper
83	100		
85	69.9	42.0	87.2
47	28.9	17.6	36.6
48	0.0	9.4	19.4#

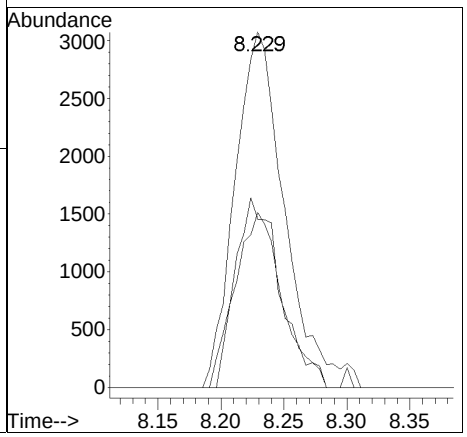




#63
Tetrachloroethene
Concen: 1.25 ug/L
RT: 8.229 min Scan# 1254
Delta R.T. 0.004 min
Lab File: V01171108A09.D
Acq: 8 Nov 2017 11:55 am

Tgt Ion:166 Resp: 8460

Ion	Ratio	Lower	Upper
166	100		
168	45.7	26.8	66.8
94	49.5	33.1	73.1



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A09.D	Operator	: VOA101:PD
Date Inj'd	: 11/8/2017 11:55 am	Instrument	: VOA 101
Sample	: l1739725-06,31,10,10,,a	Quant Date	: 11/8/2017 12:17 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A11.D
Acq On : 8 Nov 2017 12:54 pm
Operator : VOA101:MKS
Sample : l1739725-07,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 08 13:28:04 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.872	96	307941	10.000 ug/L	0.00
Standard Area 1 = 327258			Recovery =	94.10%	
59) Chlorobenzene-d5	9.675	117	231654	10.000 ug/L	0.00
Standard Area 1 = 249731			Recovery =	92.76%	
79) 1,4-Dichlorobenzene-d4	12.600	152	108476	10.000 ug/L	0.00
Standard Area 1 = 115791			Recovery =	93.68%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.026	113	73245	10.165 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.65%	
43) 1,2-Dichloroethane-d4	5.577	65	78885	11.116 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.16%	
60) Toluene-d8	7.678	98	311024	9.656 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.56%	
83) 4-Bromofluorobenzene	11.279	95	113287	9.314 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.14%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.670	50	175	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.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	2.778	76	307	N.D.	
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	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.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A11.D
Acq On : 8 Nov 2017 12:54 pm
Operator : VOA101:MKS
Sample : l1739725-07,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 08 13:28:04 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.043	97	648	N.D.		
39) 2-Butanone	0.000		0	N.D.		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.446	78	553	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.074	95	2758	0.418	ug/L	99
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	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.229	166	20114M1	3.010	ug/L	
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	9.670	91	269	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.935	105	2385	N.D.		
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.		
94) tert-Butylbenzene	12.070	119	283	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A11.D
Acq On : 8 Nov 2017 12:54 pm
Operator : VOA101:MKS
Sample : l1739725-07,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 08 13:28:04 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0	N.D.	d	
98)	sec-Butylbenzene	12.267	105	9968	0.310	ug/L	95
99)	p-Isopropyltoluene	12.392	119	155	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
102)	p-Diethylbenzene	12.851	119	2235	0.153	ug/L	95
103)	n-Butylbenzene	12.922	91	878	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
105)	1,2,4,5-Tetramethylben...	13.664	119	935	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	14.979	128	902	0.109	ug/L	100
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

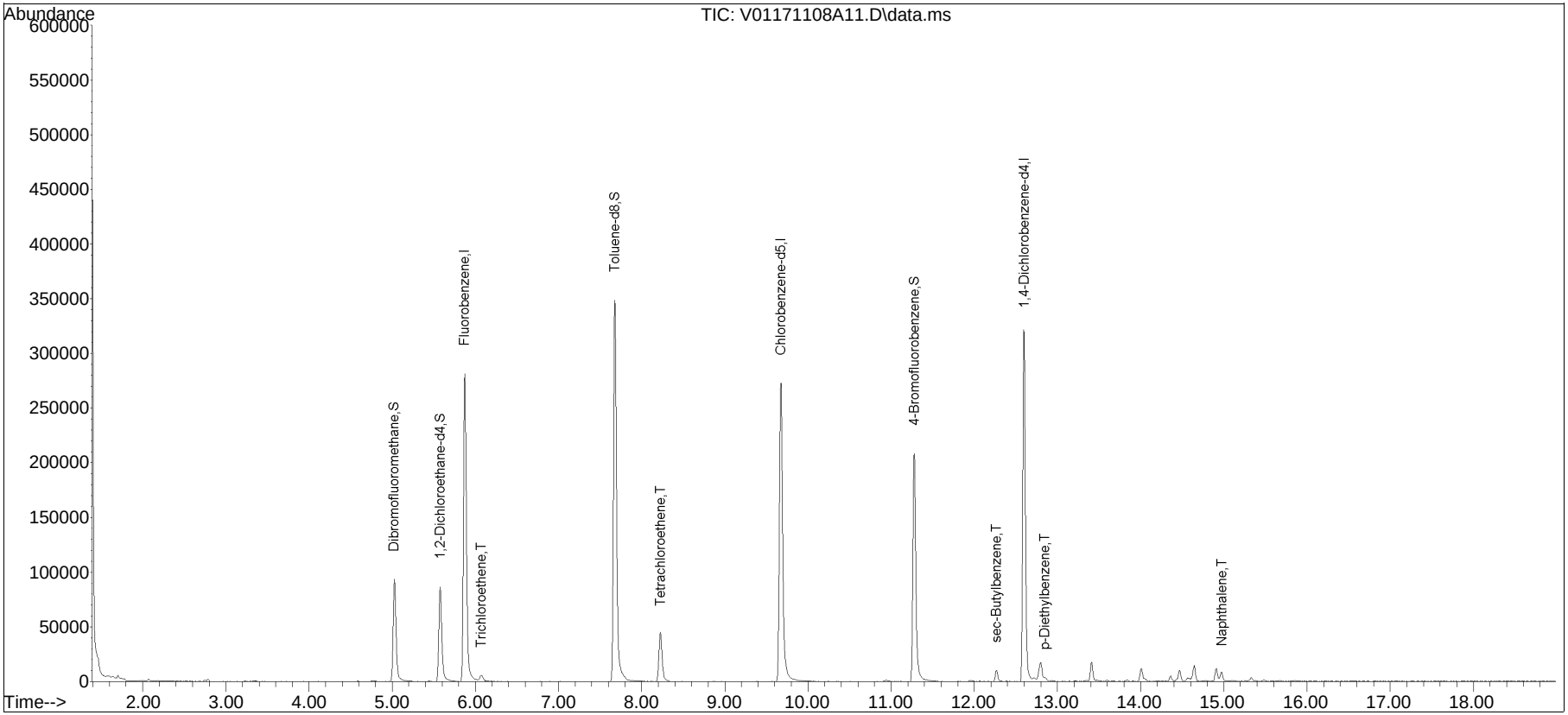
(#) = qualifier out of range (m) = manual integration (+) = signals summed

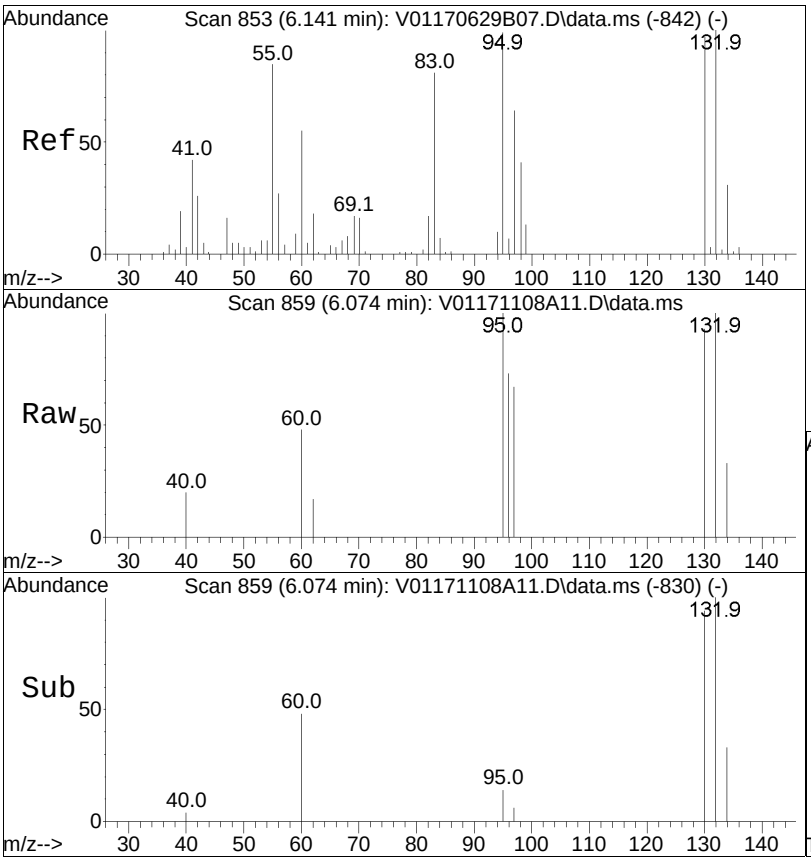
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A11.D
Acq On : 8 Nov 2017 12:54 pm
Operator : VOA101:MKS
Sample : l1739725-07,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 08 13:28:04 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

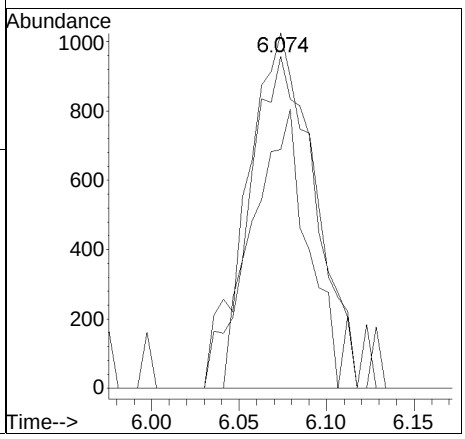


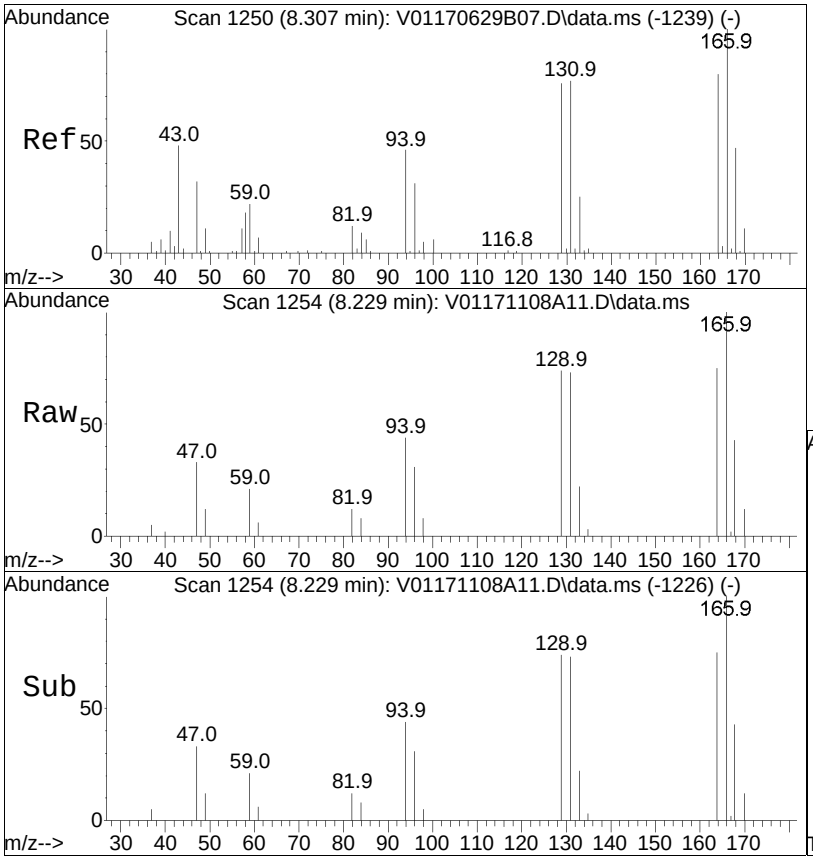


#48
Trichloroethene
Concen: 0.42 ug/L
RT: 6.074 min Scan# 859
Delta R.T. 0.009 min
Lab File: V01171108A11.D
Acq: 8 Nov 2017 12:54 pm

Tgt Ion: 95 Resp: 2758

Ion	Ratio	Lower	Upper
95	100		
97	68.1	55.1	82.7
130	91.5	71.9	107.9

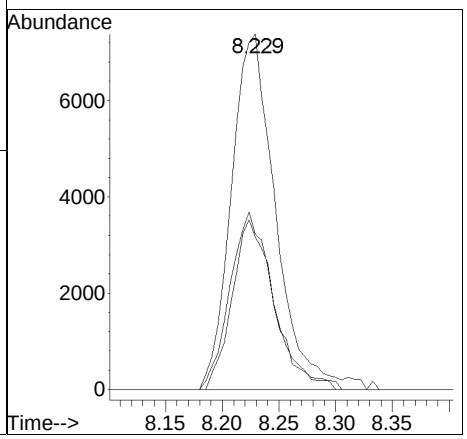


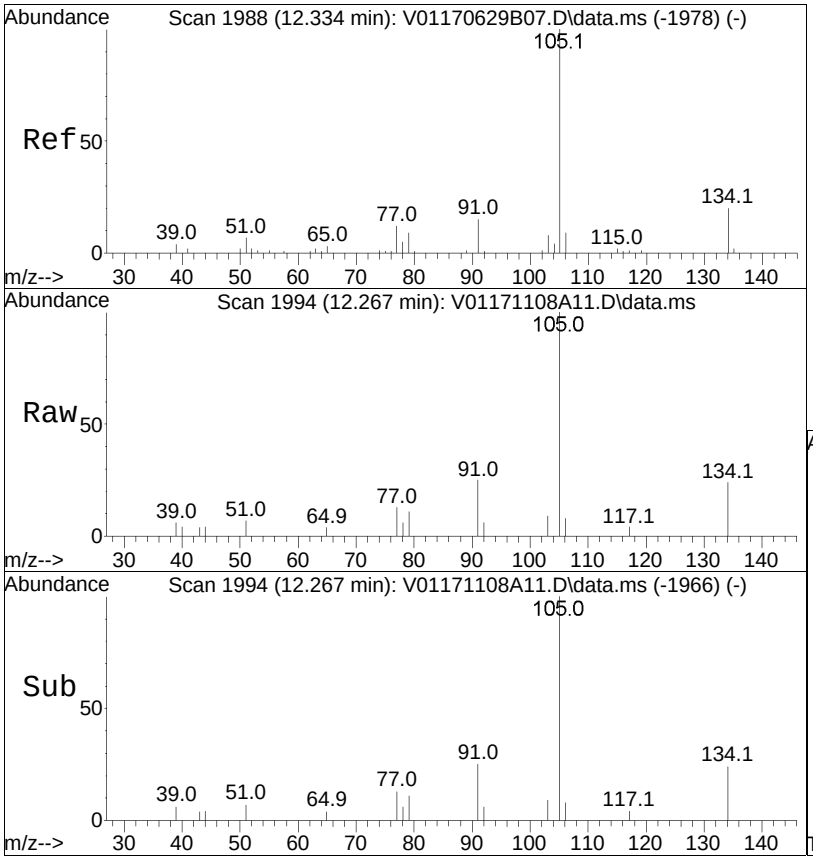


#63
Tetrachloroethene
Concen: 3.01 ug/L M1
RT: 8.229 min Scan# 1254
Delta R.T. 0.004 min
Lab File: V01171108A11.D
Acq: 8 Nov 2017 12:54 pm

Tgt Ion:166 Resp: 20114

Ion	Ratio	Lower	Upper
166	100		
168	45.7	26.8	66.8
94	48.9	33.1	73.1

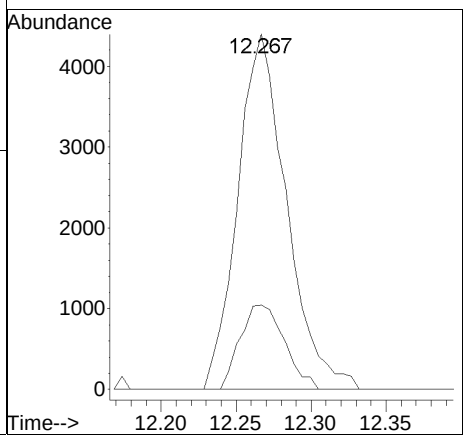


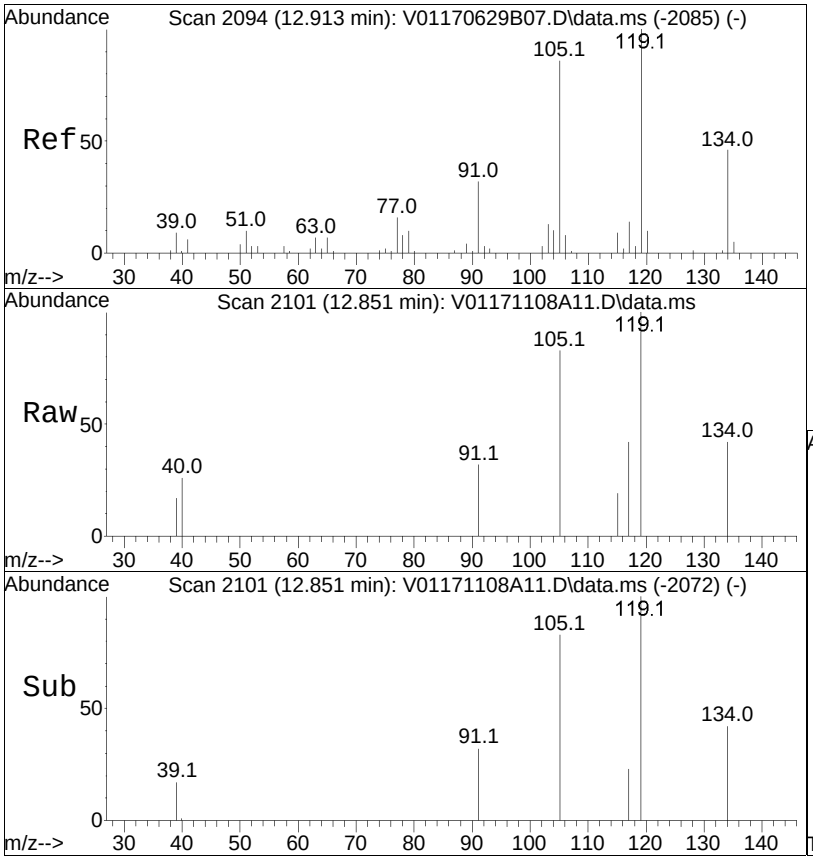


#98
sec-Butylbenzene
Concen: 0.31 ug/L
RT: 12.267 min Scan# 1994
Delta R.T. 0.004 min
Lab File: V01171108A11.D
Acq: 8 Nov 2017 12:54 pm

Tgt Ion:105 Resp: 9968

Ion	Ratio	Lower	Upper
105	100		
134	21.6	12.5	26.1

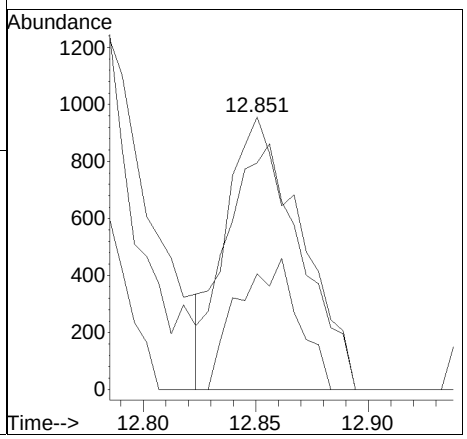


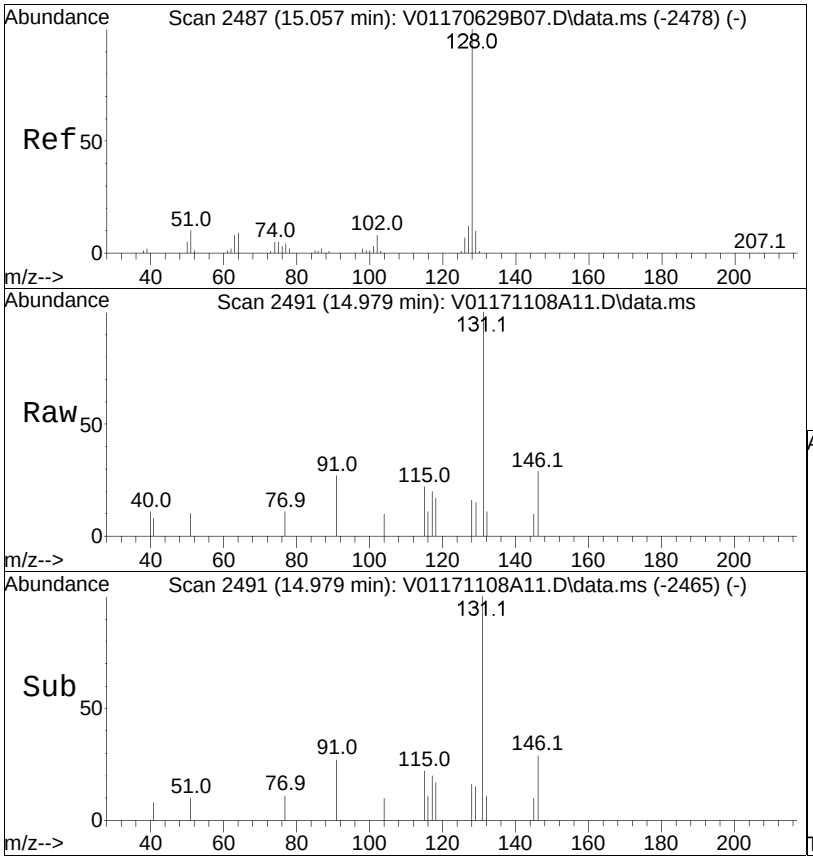


#102
p-Diethylbenzene
Concen: 0.15 ug/L
RT: 12.851 min Scan# 2101
Delta R.T. 0.010 min
Lab File: V01171108A11.D
Acq: 8 Nov 2017 12:54 pm

Tgt Ion:119 Resp: 2235

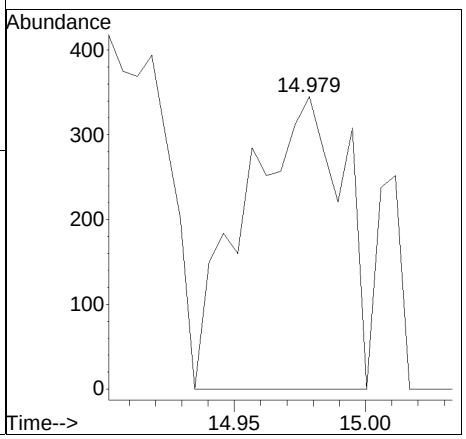
Ion	Ratio	Lower	Upper
119	100		
105	90.6	57.7	119.9
134	38.7	30.0	62.2





#110
Naphthalene
Concen: 0.11 ug/L
RT: 14.979 min Scan# 2491
Delta R.T. -0.007 min
Lab File: V01171108A11.D
Acq: 8 Nov 2017 12:54 pm

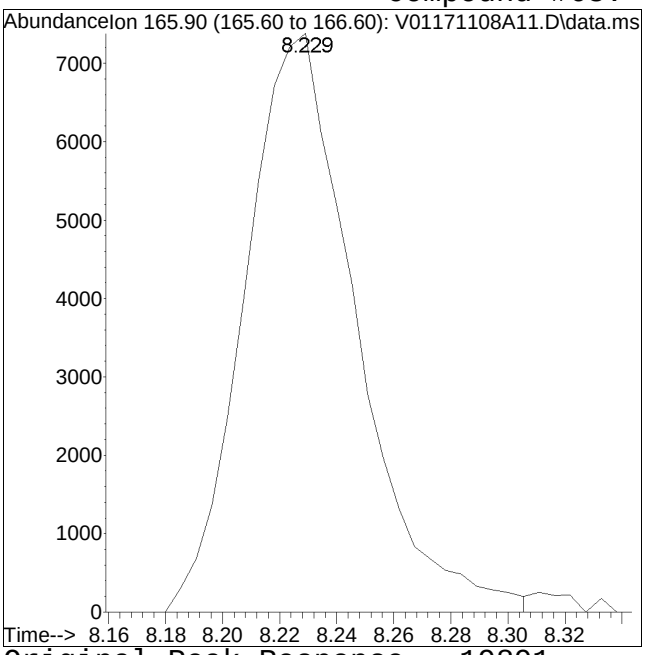
Tgt Ion:128 Resp: 902



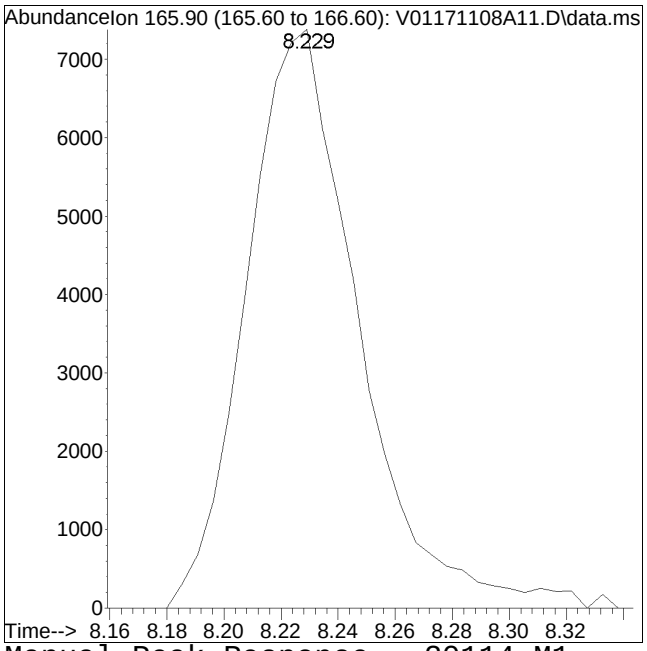
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A11.D Operator : VOA101:MKS
Date Inj'd : 11/8/2017 12:54 pm Instrument : VOA 101
Sample : l1739725-07,31,10,10,,a Quant Date : 11/8/2017 1:26 pm

Compound #63: Tetrachloroethene



Original Peak Response = 19891



Manual Peak Response = 20114 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A12.D
Acq On : 8 Nov 2017 1:22 pm
Operator : VOA101:MKS
Sample : l1739725-08,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 08 14:08:25 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.872	96	304416	10.000 ug/L	0.00
Standard Area 1 = 327258			Recovery =	93.02%	
59) Chlorobenzene-d5	9.675	117	231519	10.000 ug/L	0.00
Standard Area 1 = 249731			Recovery =	92.71%	
79) 1,4-Dichlorobenzene-d4	12.600	152	107361	10.000 ug/L	0.00
Standard Area 1 = 115791			Recovery =	92.72%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.026	113	72351	10.157 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.57%	
43) 1,2-Dichloroethane-d4	5.577	65	78891	11.245 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.45%	
60) Toluene-d8	7.678	98	305024	9.475 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.75%	
83) 4-Bromofluorobenzene	11.279	95	111643	9.274 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.74%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.703	50	221	N.D.	
4) Vinyl chloride	1.752	62	385	N.D.	
5) Bromomethane	0.000		0	N.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	2.789	76	985	N.D.	
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	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	4.579	96	852	0.131 ug/L #	68
29) 2,2-Dichloropropane	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A12.D
Acq On : 8 Nov 2017 1:22 pm
Operator : VOA101:MKS
Sample : l1739725-08,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 08 14:08:25 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.446	78	56	N.D.			
44) 1,2-Dichloroethane	0.000		0	N.D.			
48) Trichloroethene	0.000		0	N.D.	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	7.754	92	256	N.D.			
62) 4-Methyl-2-pentanone	0.000		0	N.D.			
63) Tetrachloroethene	8.235	166	814	0.122	ug/L	#	68
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	9.670	91	78	N.D.			
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.			
76) p/m Xylene	0.000		0	N.D.			
77) o Xylene	0.000		0	N.D.			
78) Styrene	0.000		0	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	0.000		0	N.D.			
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
88) 4-Ethyltoluene	0.000		0	N.D.			
89) 2-Chlorotoluene	0.000		0	N.D.			
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.			
94) tert-Butylbenzene	0.000		0	N.D.			

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A12.D
Acq On : 8 Nov 2017 1:22 pm
Operator : VOA101:MKS
Sample : l1739725-08,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 08 14:08:25 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.174	105	53		N.D.	
98)	sec-Butylbenzene	12.174	105	53		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.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.	

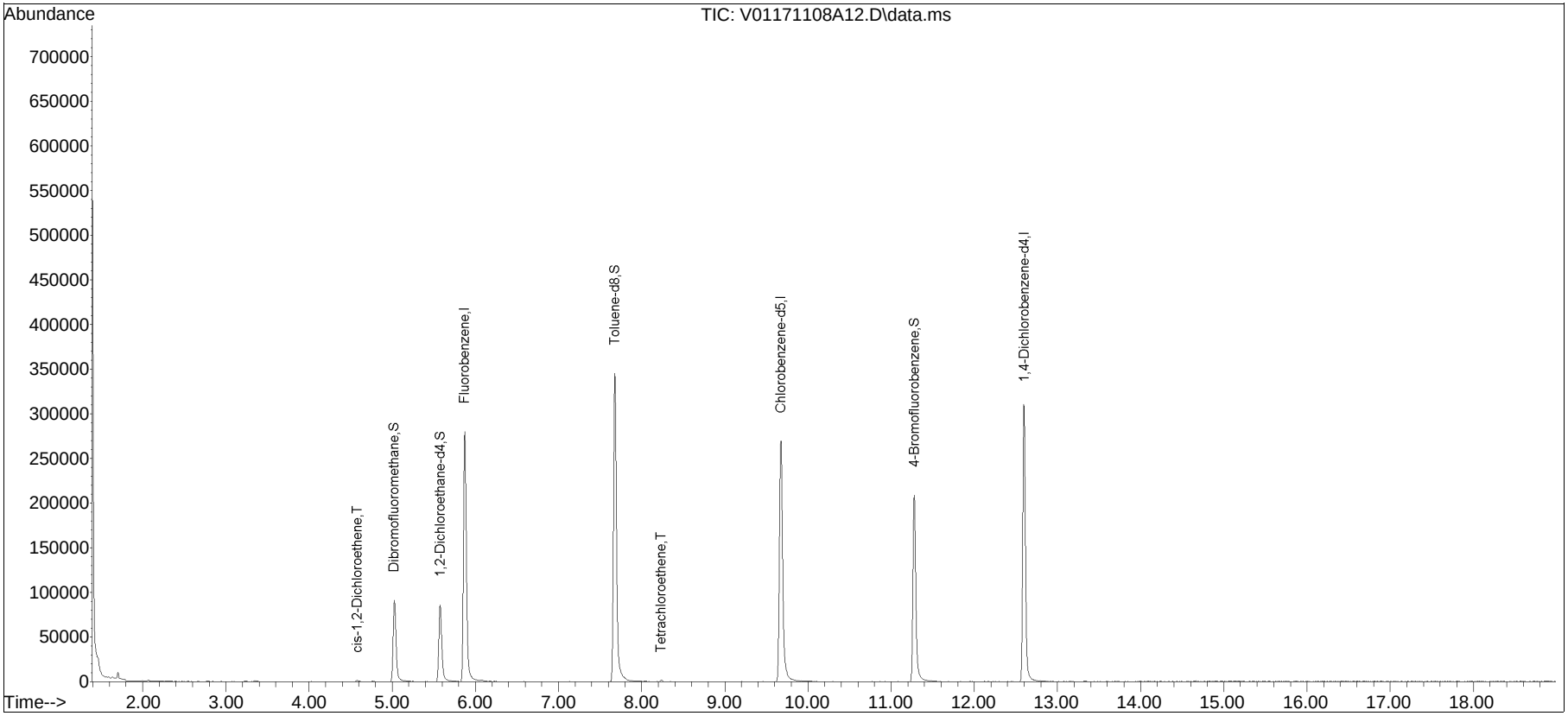
(#) = qualifier out of range (m) = manual integration (+) = signals summed

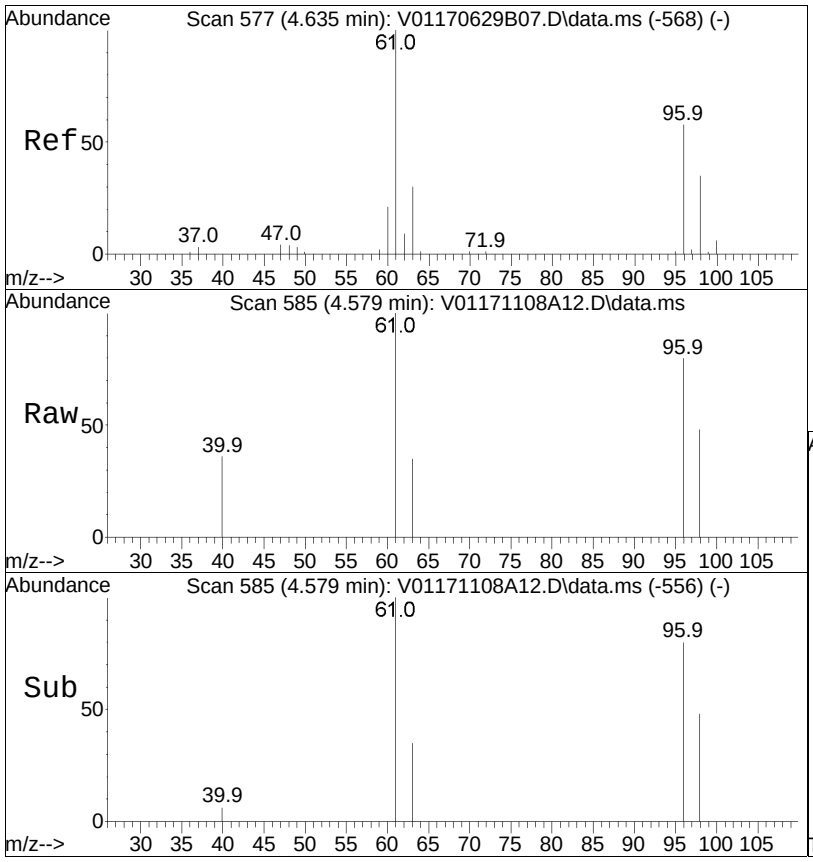
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A12.D
Acq On : 8 Nov 2017 1:22 pm
Operator : VOA101:MKS
Sample : l1739725-08,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 08 14:08:25 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

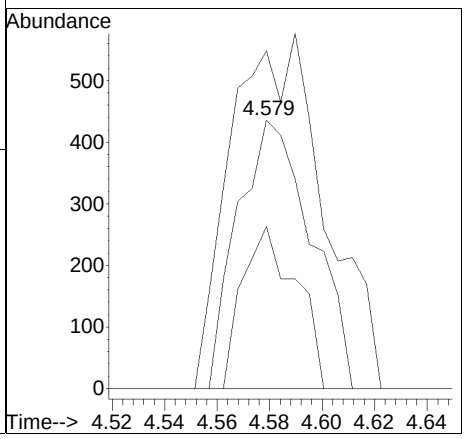


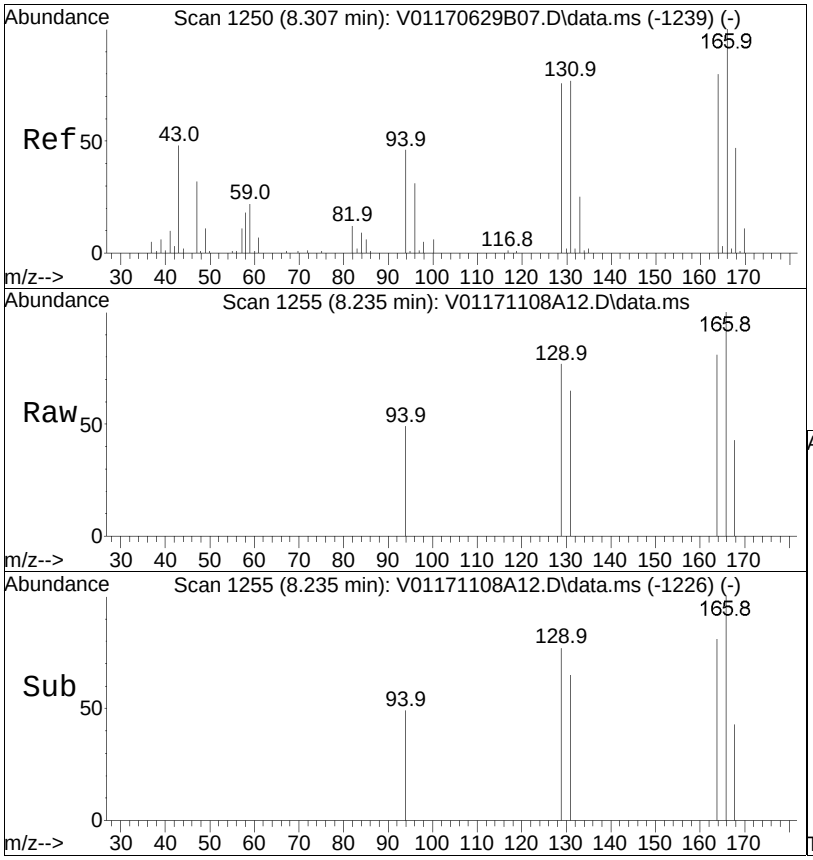


#28
cis-1,2-Dichloroethene
Concen: 0.13 ug/L
RT: 4.579 min Scan# 585
Delta R.T. 0.009 min
Lab File: V01171108A12.D
Acq: 8 Nov 2017 1:22 pm

Tgt Ion: 96 Resp: 852

Ion	Ratio	Lower	Upper
96	100		
61	167.3	101.4	152.0#
98	44.0	50.2	75.4#

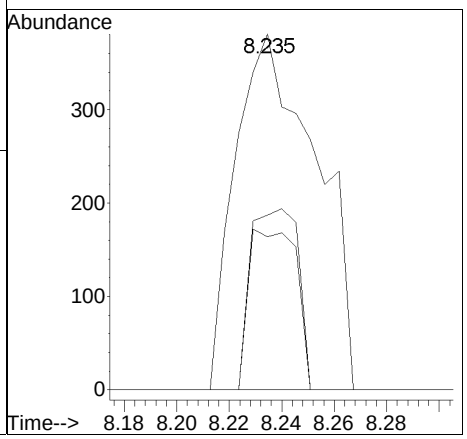




#63
Tetrachloroethene
Concen: 0.12 ug/L
RT: 8.235 min Scan# 1255
Delta R.T. 0.010 min
Lab File: V01171108A12.D
Acq: 8 Nov 2017 1:22 pm

Tgt Ion:166 Resp: 814

Ion	Ratio	Lower	Upper
166	100		
168	26.4	26.8	66.8#
94	29.9	33.1	73.1#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A12.D	Operator	: VOA101:MKS
Date Inj'd	: 11/8/2017 1:22 pm	Instrument	: VOA 101
Sample	: l1739725-08,31,10,10,,a	Quant Date	: 11/8/2017 2:07 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A13.D
Acq On : 8 Nov 2017 1:50 pm
Operator : VOA101:KD
Sample : l1739725-09,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 15:00:03 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	305451	10.000	ug/L	0.00
Standard Area 1 = 327258			Recovery = 93.34%			
59) Chlorobenzene-d5	9.675	117	232687	10.000	ug/L	0.00
Standard Area 1 = 249731			Recovery = 93.18%			
79) 1,4-Dichlorobenzene-d4	12.600	152	110055	10.000	ug/L	0.00
Standard Area 1 = 115791			Recovery = 95.05%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.026	113	72989	10.212	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.12%			
43) 1,2-Dichloroethane-d4	5.577	65	80840	11.484	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.84%			
60) Toluene-d8	7.678	98	308093	9.522	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.22%			
83) 4-Bromofluorobenzene	11.279	95	113346	9.185	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.85%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.676	50	329	N.D.		
4) Vinyl chloride	1.752	62	243	N.D.		
5) Bromomethane	0.000		0	N.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	0.000		0	N.D. d		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.340	43	4749	4.262	ug/L	91
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	4.579	96	1521	0.232	ug/L #	67
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A13.D
Acq On : 8 Nov 2017 1:50 pm
Operator : VOA101:KD
Sample : l1739725-09,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 15:00:03 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.446	78	1435	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.074	95	5118	0.783	ug/L	92
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	7.749	92	493	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.224	166	13062	1.946	ug/L	97
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	9.757	91	321	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	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	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	11.628	105	53	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	11.628	105	53	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	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A13.D
Acq On : 8 Nov 2017 1:50 pm
Operator : VOA101:KD
Sample : l1739725-09,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 15:00:03 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.174	105	138	N.D.		
98)	sec-Butylbenzene	12.174	105	138	N.D.		
99)	p-Isopropyltoluene	12.425	119	432	N.D.		
100)	1,3-Dichlorobenzene	12.611	146	381	N.D.		
101)	1,4-Dichlorobenzene	12.611	146	381	N.D.		
102)	p-Diethylbenzene	0.000		0	N.D.		
103)	n-Butylbenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
105)	1,2,4,5-Tetramethylben...	13.789	119	112	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.		

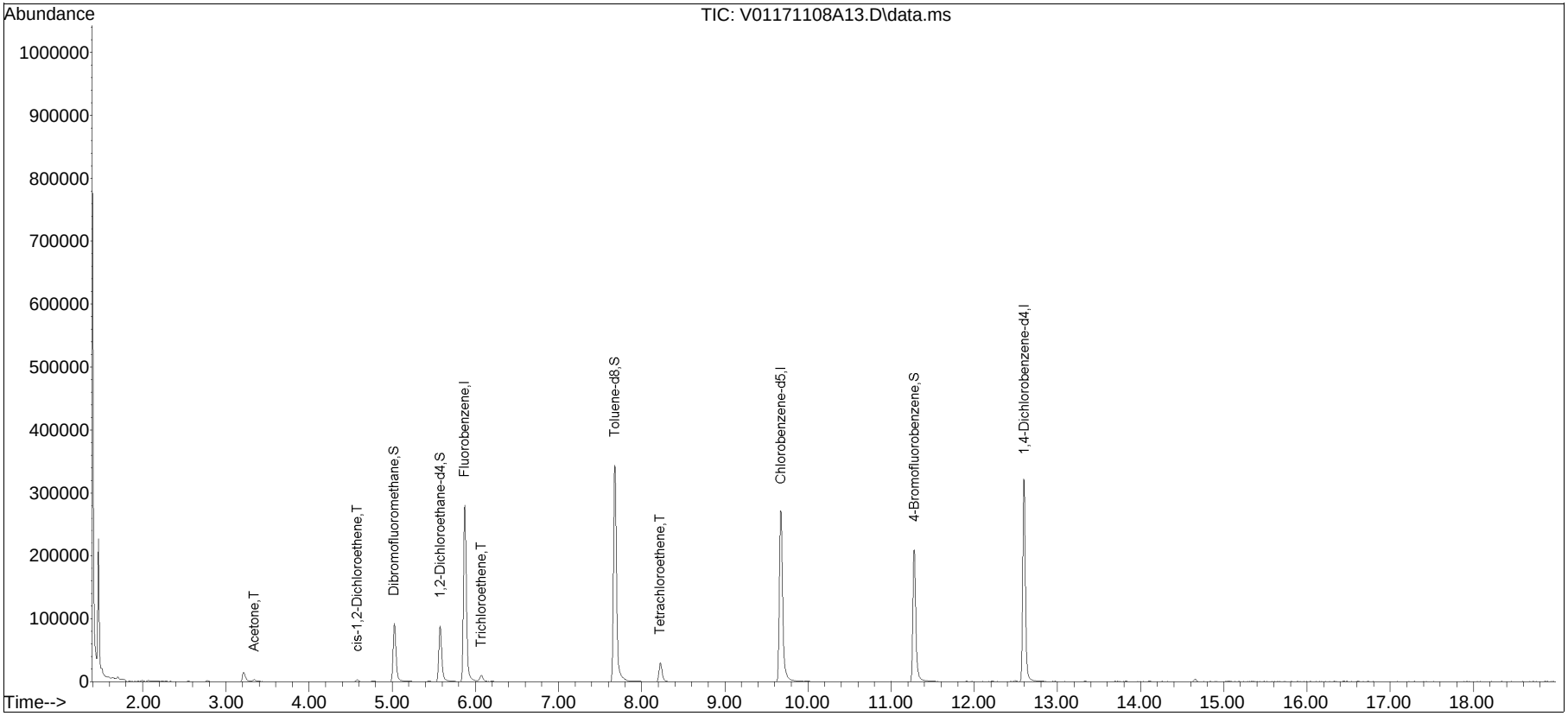
(#) = qualifier out of range (m) = manual integration (+) = signals summed

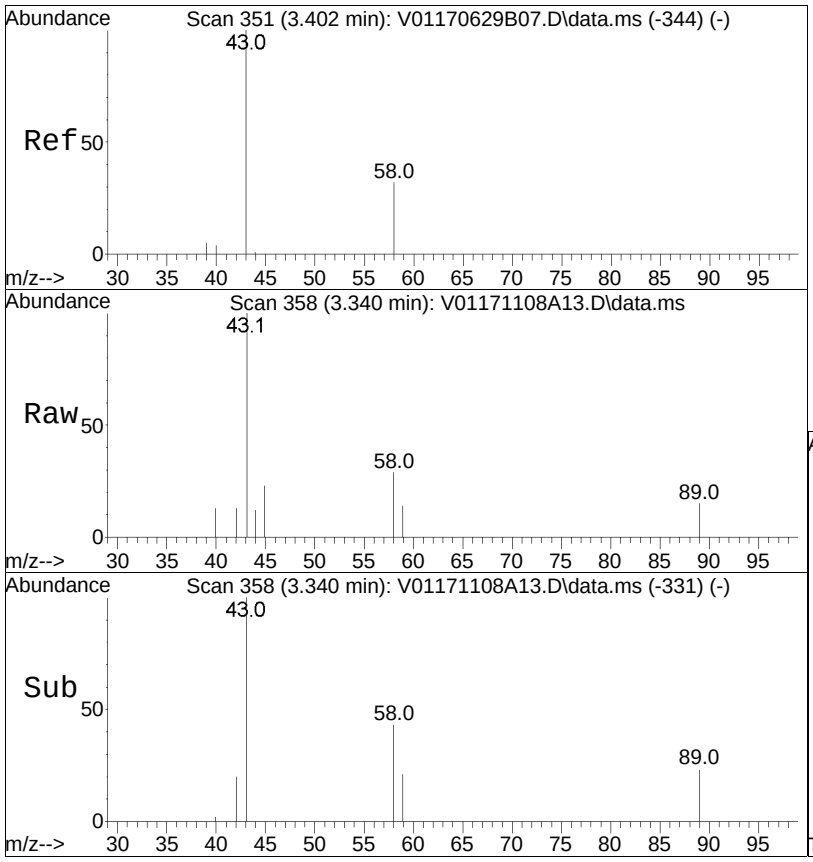
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A13.D
Acq On : 8 Nov 2017 1:50 pm
Operator : VOA101:KD
Sample : l1739725-09,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 08 15:00:03 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

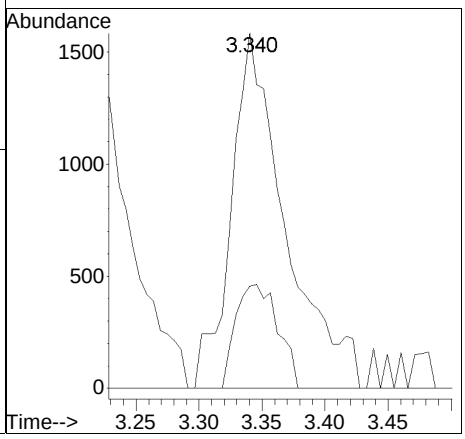


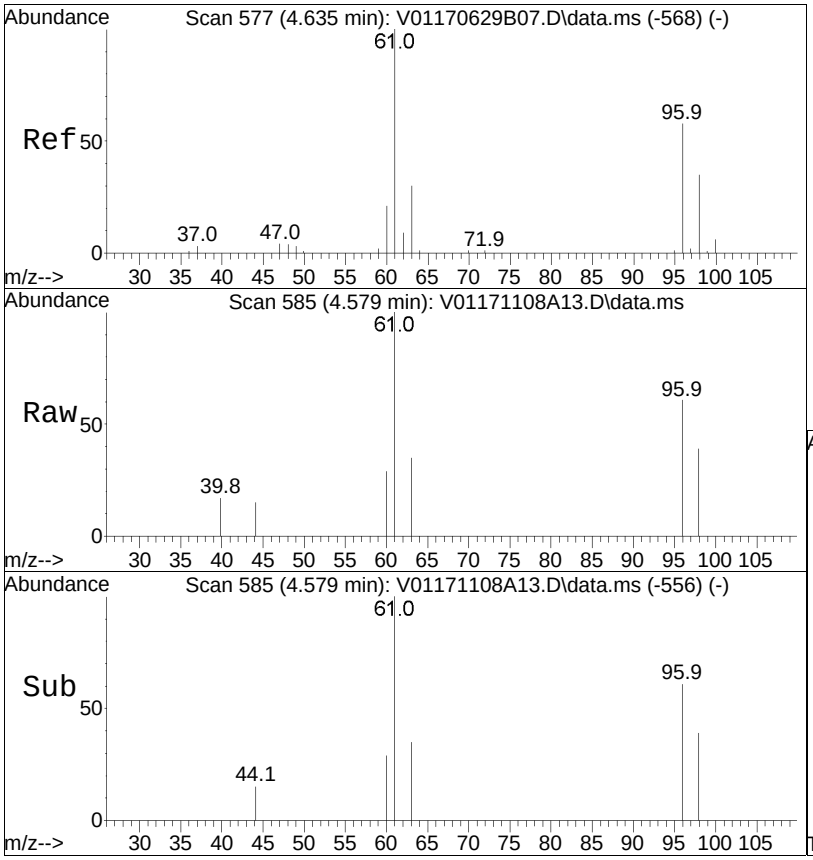


#17
Acetone
Concen: 4.26 ug/L
RT: 3.340 min Scan# 358
Delta R.T. -0.002 min
Lab File: V01171108A13.D
Acq: 8 Nov 2017 1:50 pm

Tgt Ion: 43 Resp: 4749

Ion	Ratio	Lower	Upper
43	100		
58	22.8	21.8	32.6

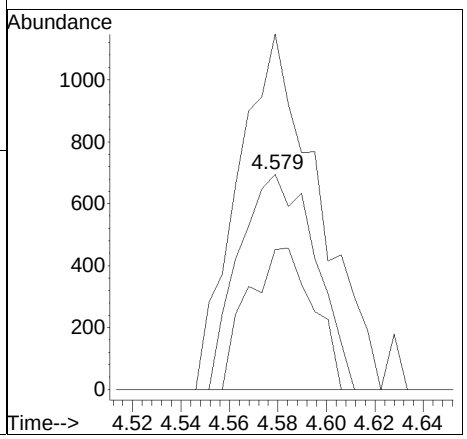


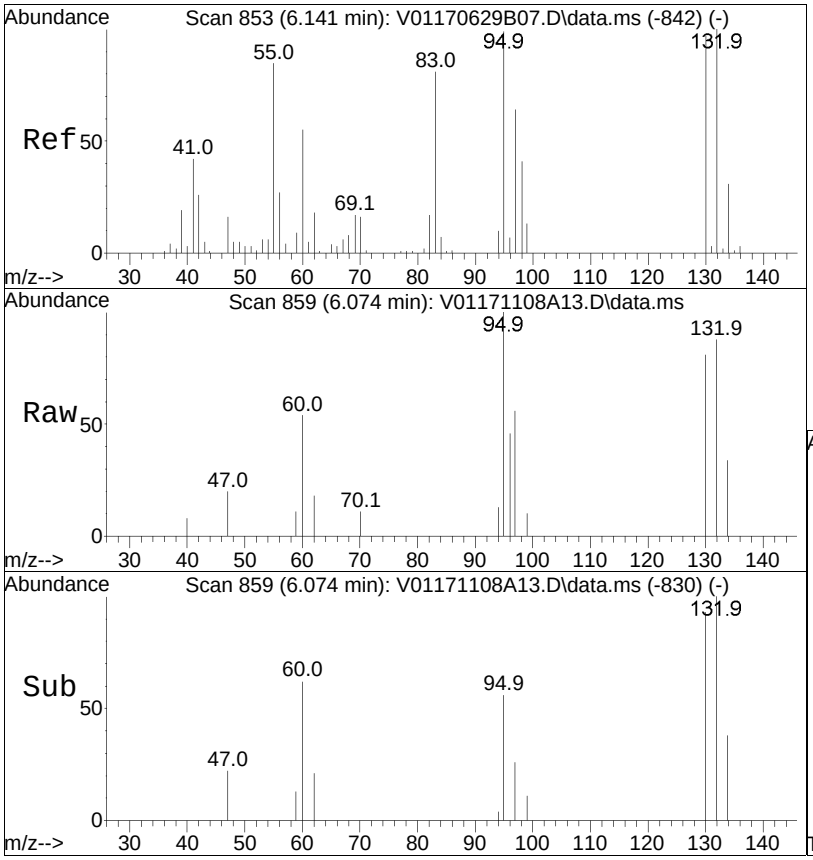


#28
cis-1,2-Dichloroethene
Concen: 0.23 ug/L
RT: 4.579 min Scan# 585
Delta R.T. 0.009 min
Lab File: V01171108A13.D
Acq: 8 Nov 2017 1:50 pm

Tgt Ion: 96 Resp: 1521

Ion	Ratio	Lower	Upper
96	100		
61	178.2	101.4	152.0#
98	56.3	50.2	75.4

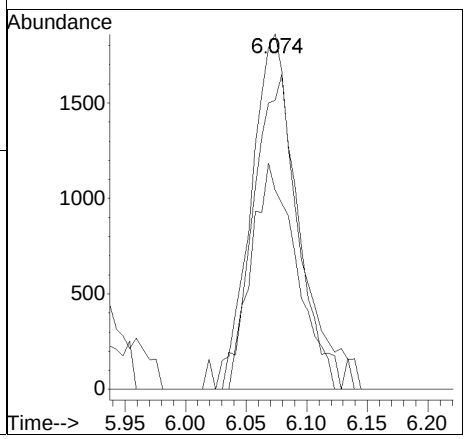


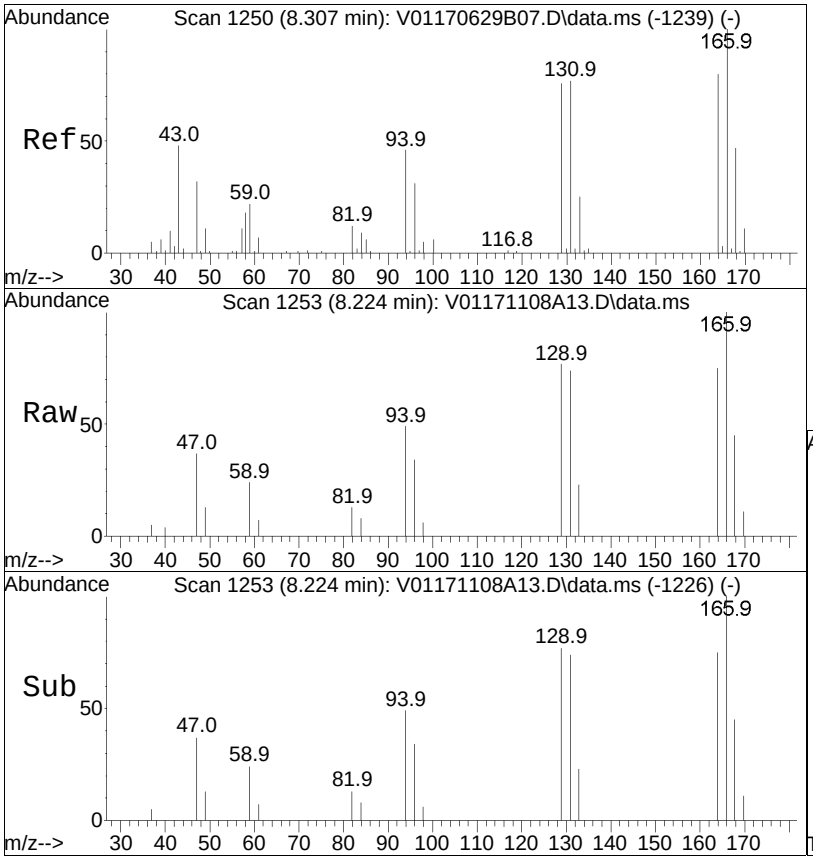


#48
Trichloroethene
Concen: 0.78 ug/L
RT: 6.074 min Scan# 859
Delta R.T. 0.009 min
Lab File: V01171108A13.D
Acq: 8 Nov 2017 1:50 pm

Tgt Ion: 95 Resp: 5118

Ion	Ratio	Lower	Upper
95	100		
97	61.2	55.1	82.7
130	83.8	71.9	107.9

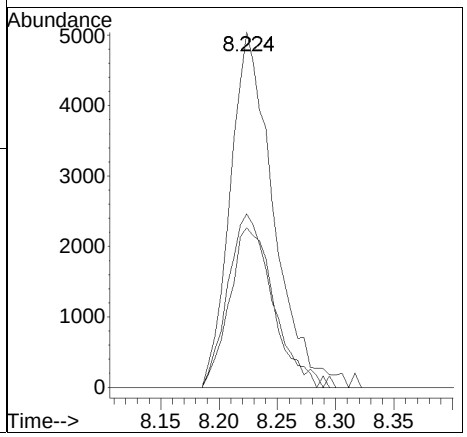




#63
Tetrachloroethene
Concen: 1.95 ug/L
RT: 8.224 min Scan# 1253
Delta R.T. -0.001 min
Lab File: V01171108A13.D
Acq: 8 Nov 2017 1:50 pm

Tgt Ion:166 Resp: 13062

Ion	Ratio	Lower	Upper
166	100		
168	46.6	26.8	66.8
94	49.9	33.1	73.1



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A13.D	Operator	: VOA101:KD
Date Inj'd	: 11/8/2017 1:50 pm	Instrument	: VOA 101
Sample	: l1739725-09,31,10,10,,a	Quant Date	: 11/8/2017 2:58 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A14.D
Acq On : 8 Nov 2017 2:19 pm
Operator : VOA101:KD
Sample : l1739725-10,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 08 15:00:50 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.877	96	306146	10.000	ug/L	0.00
Standard Area 1 = 327258			Recovery =	93.55%		
59) Chlorobenzene-d5	9.675	117	229012	10.000	ug/L	0.00
Standard Area 1 = 249731			Recovery =	91.70%		
79) 1,4-Dichlorobenzene-d4	12.594	152	106409	10.000	ug/L	0.00
Standard Area 1 = 115791			Recovery =	91.90%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.026	113	72716	10.151	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.51%		
43) 1,2-Dichloroethane-d4	5.577	65	79608	11.283	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.83%		
60) Toluene-d8	7.678	98	306765	9.633	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.33%		
83) 4-Bromofluorobenzene	11.279	95	111438	9.339	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.39%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.485	85	1695	0.267	ug/L #	81
3) Chloromethane	1.681	50	52	N.D.		
4) Vinyl chloride	1.752	62	91234	10.075	ug/L	94
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	2.151	64	56	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.745	96	258	N.D.		
11) Carbon disulfide	2.778	76	498	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	3.449	96	4763	0.768	ug/L #	70
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	4.039	63	7017	0.518	ug/L	91
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.568	96	399957	60.940	ug/L #	76
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A14.D
Acq On : 8 Nov 2017 2:19 pm
Operator : VOA101:KD
Sample : l1739725-10,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 08 15:00:50 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.037	97	324	N.D.		
39) 2-Butanone	0.000		0	N.D.		
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.452	78	948	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.063	95	26270	4.009	ug/L	95
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	7.744	92	627	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.218	166	80006	12.112	ug/L	97
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	9.686	91	249	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	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	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	11.650	91	1972	0.088	ug/L	91
90) 1,3,5-Trimethylbenzene	0.000		0	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	11.699	91	110	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A14.D
Acq On : 8 Nov 2017 2:19 pm
Operator : VOA101:KD
Sample : l1739725-10,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 08 15:00:50 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	12.283	105	940		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.611	146	106		N.D.	
101)	1,4-Dichlorobenzene	12.611	146	106		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.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.	

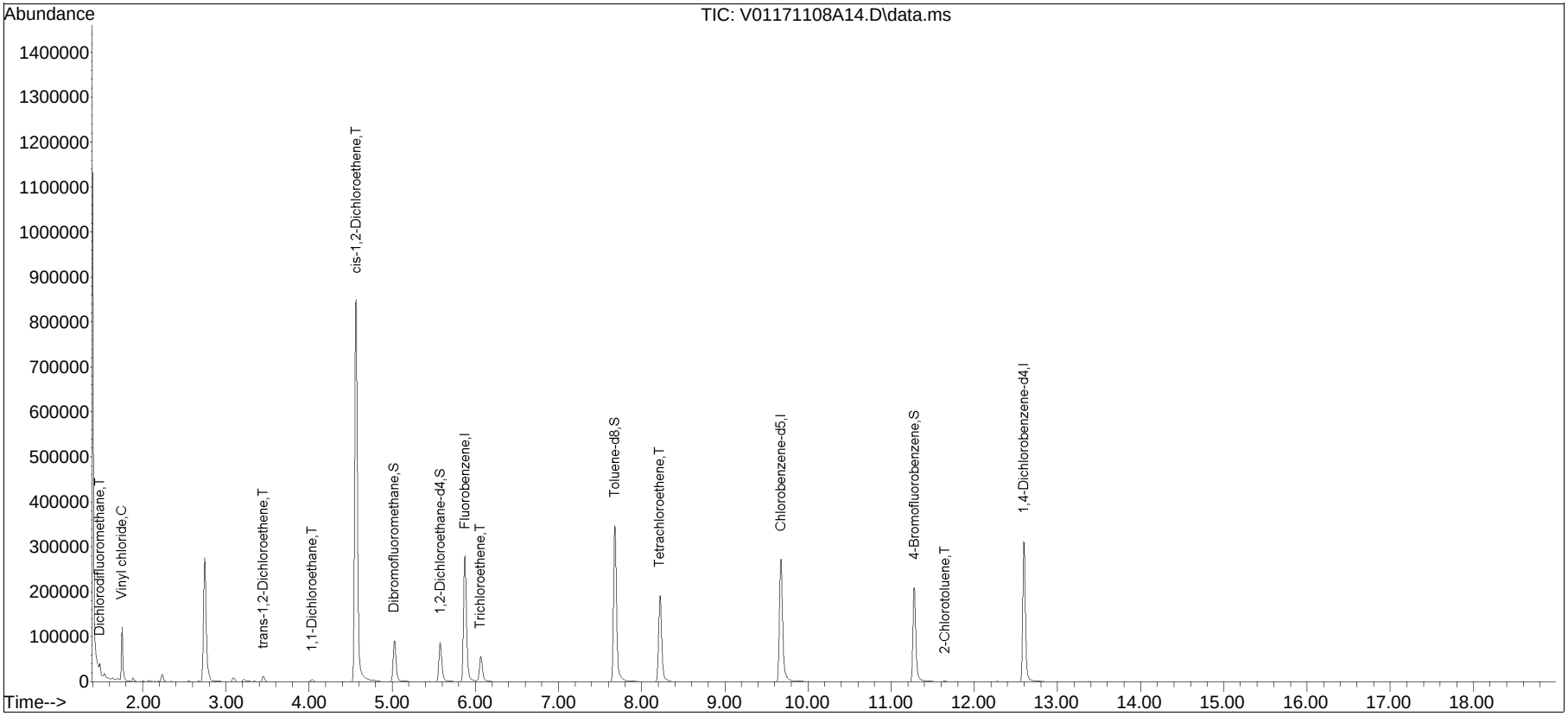
(#) = qualifier out of range (m) = manual integration (+) = signals summed

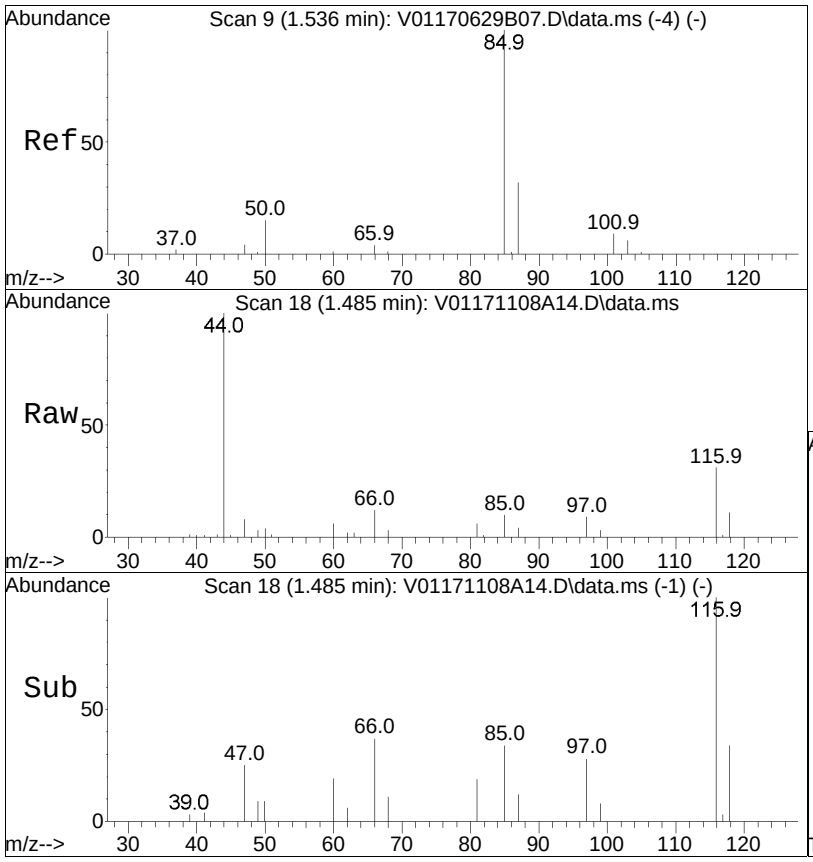
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A14.D
Acq On : 8 Nov 2017 2:19 pm
Operator : VOA101:KD
Sample : l1739725-10,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 08 15:00:50 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

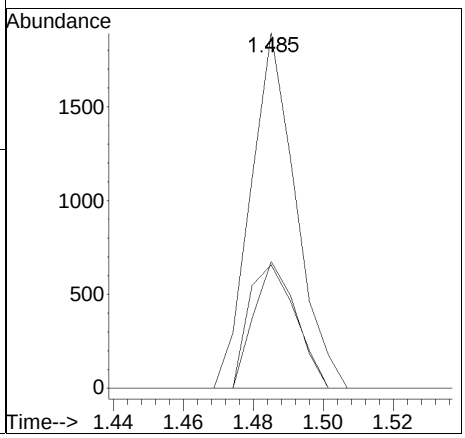


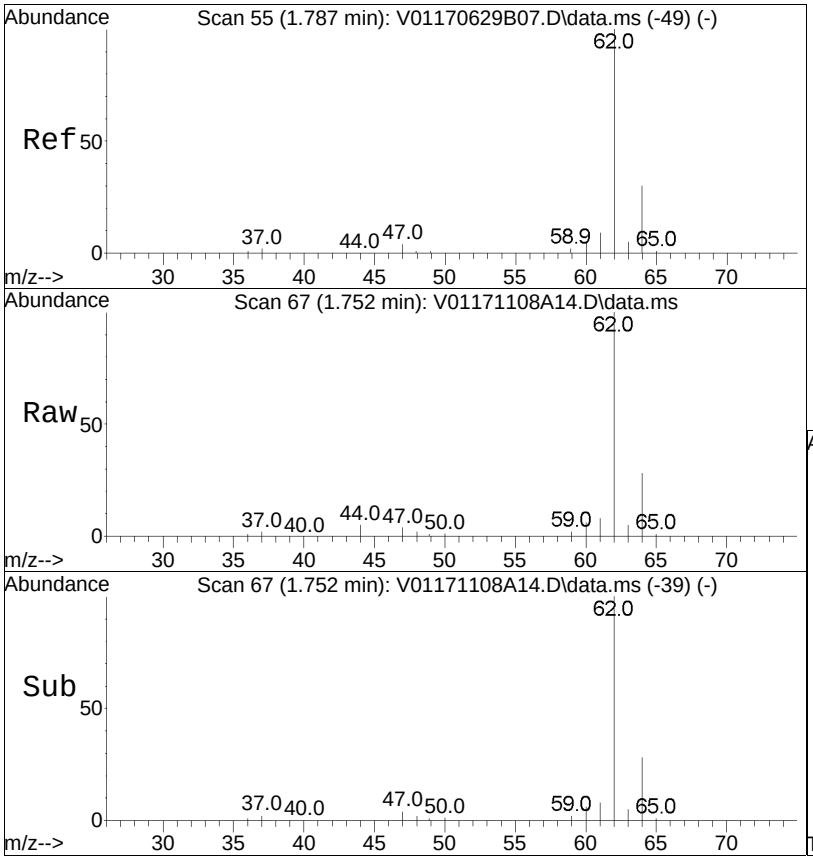


#2
Dichlorodifluoromethane
Concen: 0.27 ug/L
RT: 1.485 min Scan# 18
Delta R.T. -0.018 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 85 Resp: 1695

Ion	Ratio	Lower	Upper
85	100		
87	33.4	20.7	43.1
50	36.2	8.3	17.1#

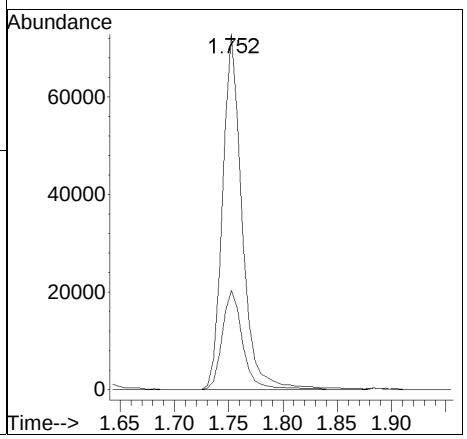


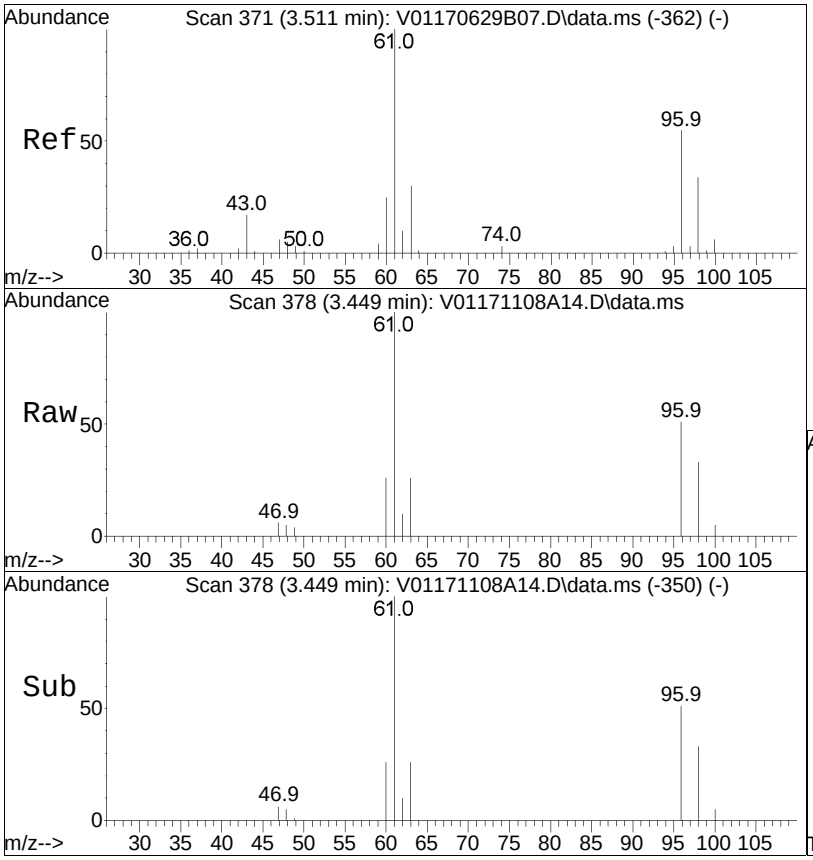


#4
Vinyl chloride
Concen: 10.08 ug/L
RT: 1.752 min Scan# 67
Delta R.T. 0.003 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 62 Resp: 91234

Ion	Ratio	Lower	Upper
62	100		
64	29.1	12.3	52.3

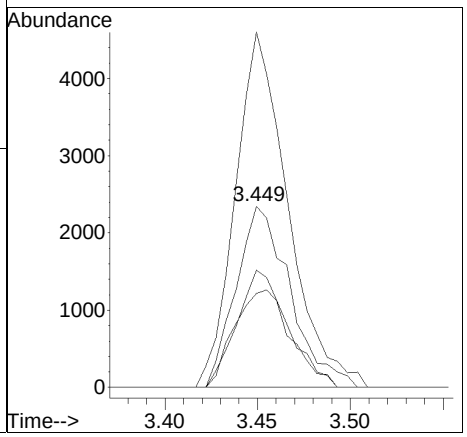


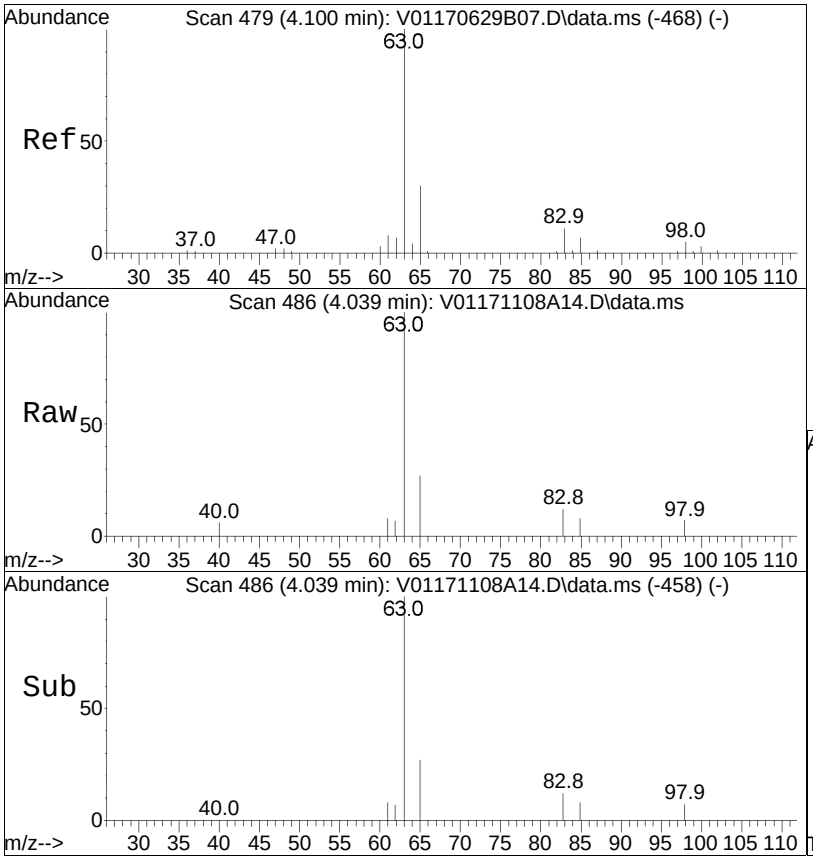


#18
trans-1,2-Dichloroethene
Concen: 0.77 ug/L
RT: 3.449 min Scan# 378
Delta R.T. 0.003 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 96 Resp: 4763

Ion	Ratio	Lower	Upper
96	100		
61	190.4	88.2	183.2#
98	61.0	40.8	84.6
63	56.1	28.4	59.0

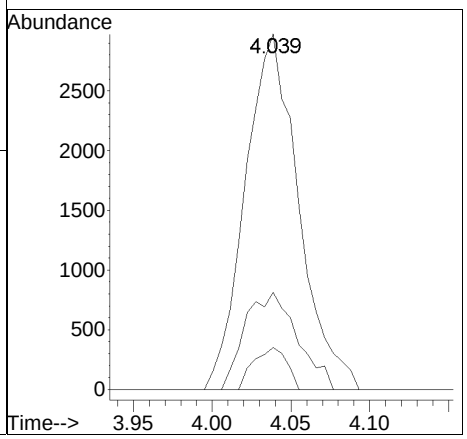


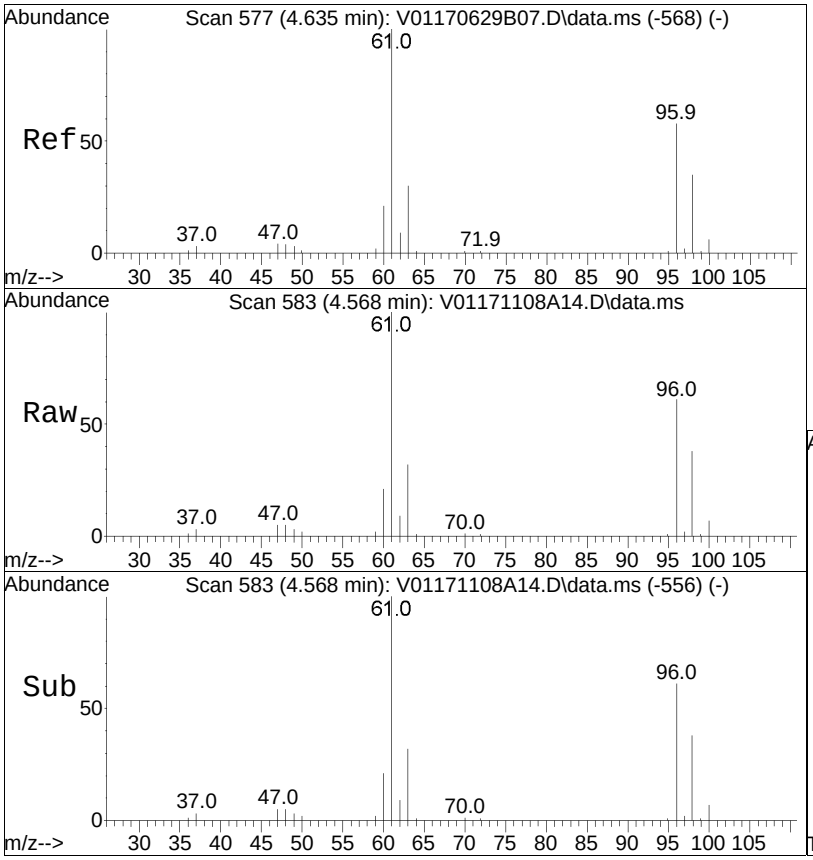


#23
1,1-Dichloroethane
Concen: 0.52 ug/L
RT: 4.039 min Scan# 486
Delta R.T. 0.004 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 63 Resp: 7017

Ion	Ratio	Lower	Upper
63	100		
65	26.7	10.5	50.5
83	7.3	0.0	33.2

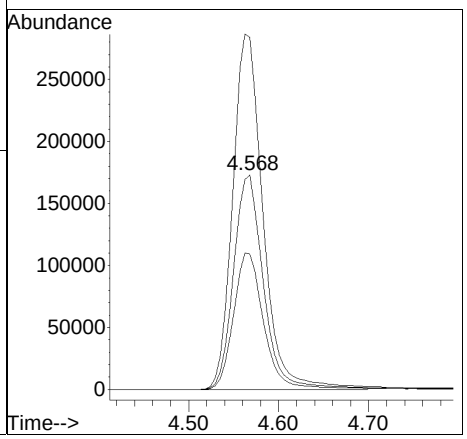


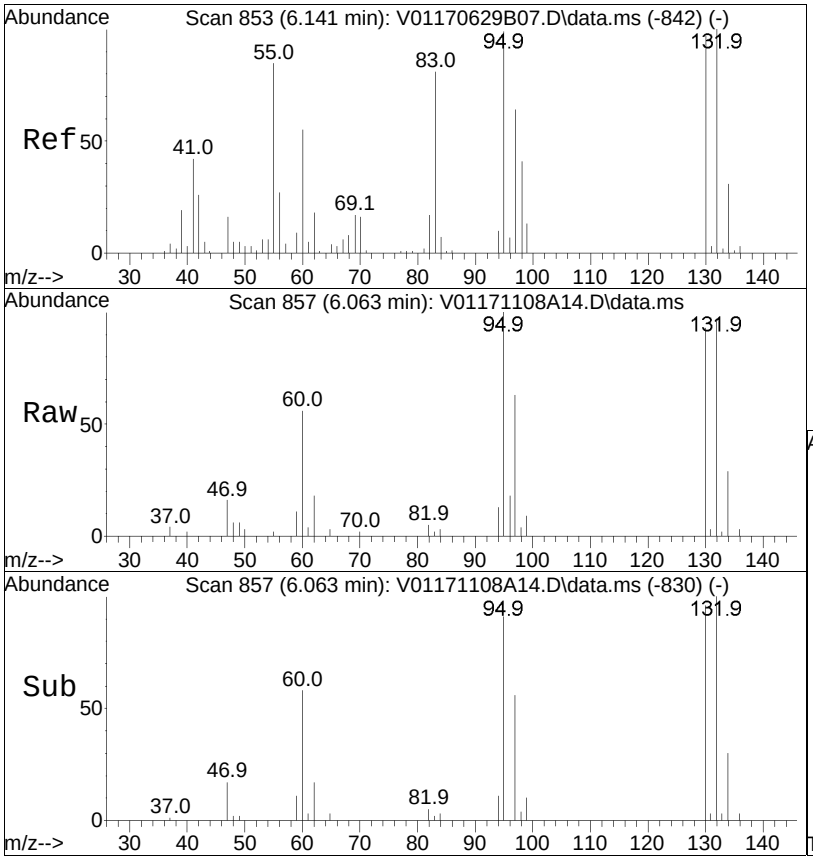


#28
cis-1,2-Dichloroethene
Concen: 60.94 ug/L
RT: 4.568 min Scan# 583
Delta R.T. -0.002 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 96 Resp: 399957

Ion	Ratio	Lower	Upper
96	100		
61	167.7	101.4	152.0#
98	64.2	50.2	75.4

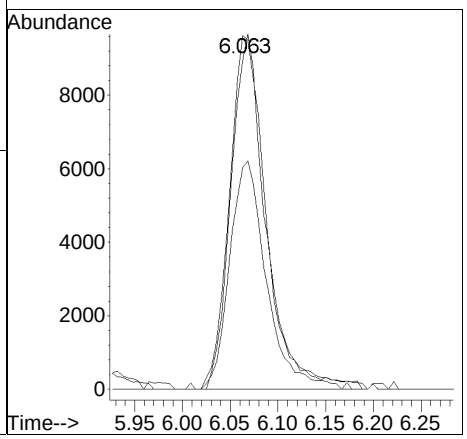


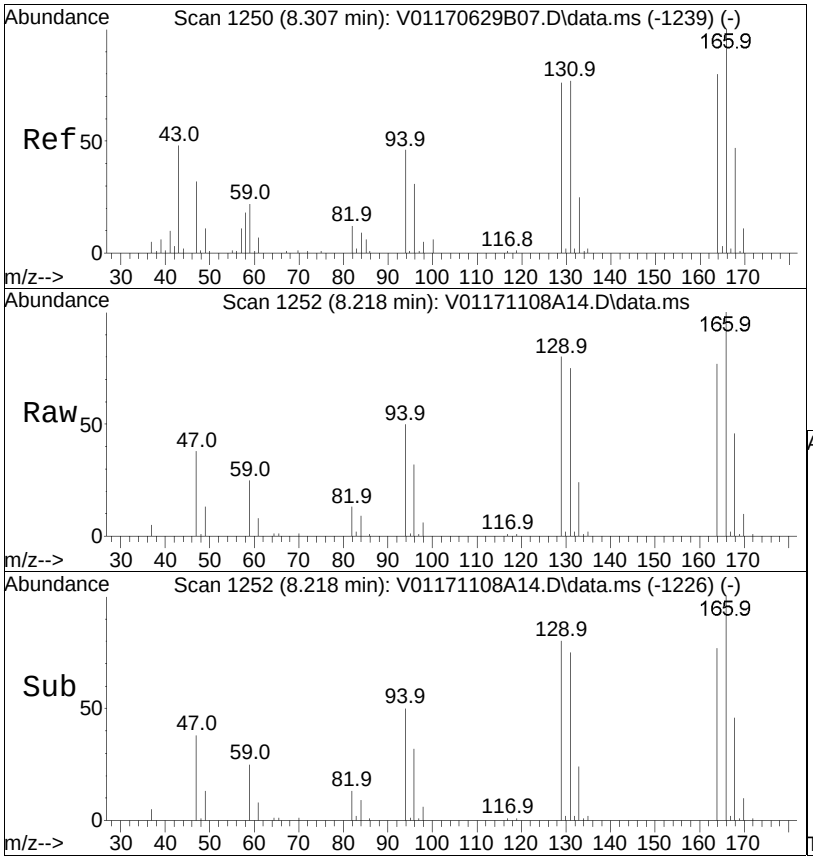


#48
Trichloroethene
Concen: 4.01 ug/L
RT: 6.063 min Scan# 857
Delta R.T. -0.002 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 95 Resp: 26270

Ion	Ratio	Lower	Upper
95	100		
97	63.5	55.1	82.7
130	93.5	71.9	107.9

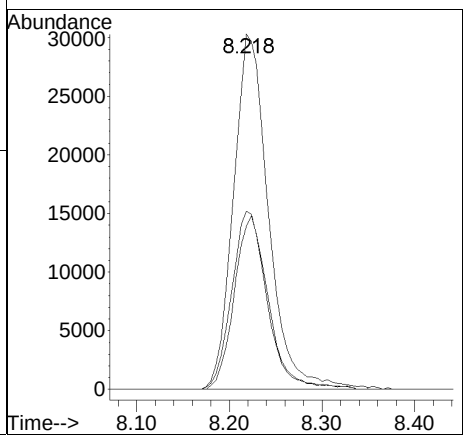


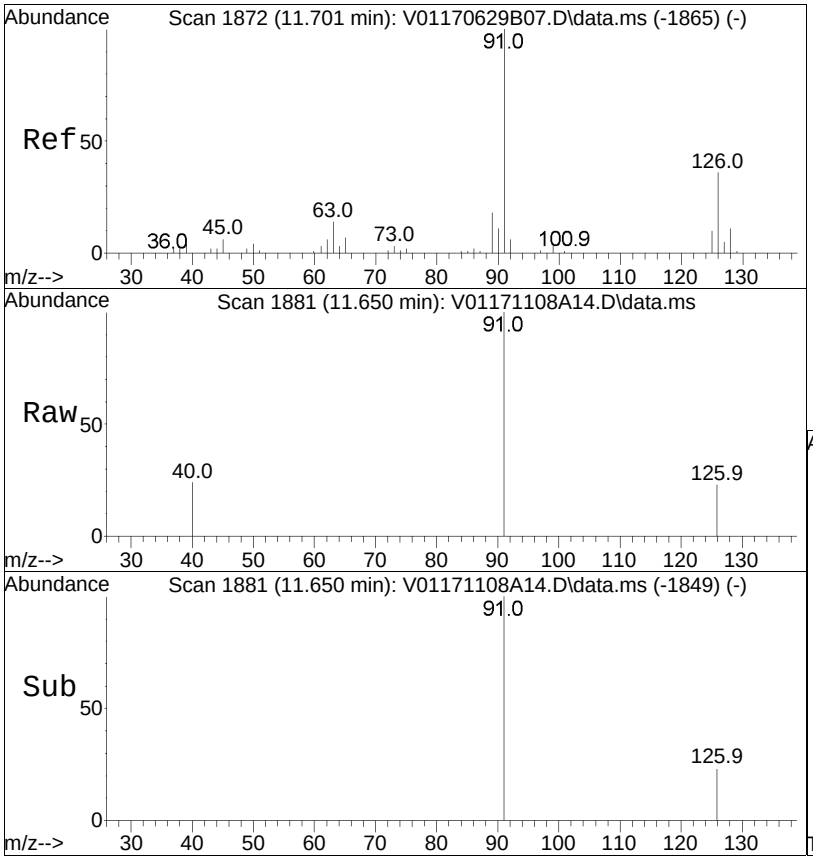


#63
Tetrachloroethene
Concen: 12.11 ug/L
RT: 8.218 min Scan# 1252
Delta R.T. -0.007 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion:166 Resp: 80006

Ion	Ratio	Lower	Upper
166	100		
168	47.8	26.8	66.8
94	50.6	33.1	73.1

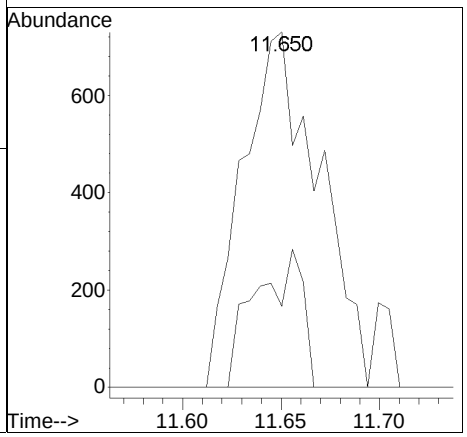




#89
2-Chlorotoluene
Concen: 0.09 ug/L
RT: 11.650 min Scan# 1881
Delta R.T. 0.025 min
Lab File: V01171108A14.D
Acq: 8 Nov 2017 2:19 pm

Tgt Ion: 91 Resp: 1972

Ion	Ratio	Lower	Upper
91	100		
126	23.9	22.9	34.3



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A14.D	Operator	: VOA101:KD
Date Inj'd	: 11/8/2017 2:19 pm	Instrument	: VOA 101
Sample	: l1739725-10,31,10,10,,a	Quant Date	: 11/8/2017 2:58 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A15.D
Acq On : 8 Nov 2017 2:47 pm
Operator : VOA101:KD
Sample : l1739725-11,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 15:27:40 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.872	96	301799	10.000 ug/L	0.00
Standard Area 1 = 327258			Recovery =	92.22%	
59) Chlorobenzene-d5	9.675	117	230376	10.000 ug/L	0.00
Standard Area 1 = 249731			Recovery =	92.25%	
79) 1,4-Dichlorobenzene-d4	12.600	152	106744	10.000 ug/L	0.00
Standard Area 1 = 115791			Recovery =	92.19%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.026	113	71623	10.142 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.42%	
43) 1,2-Dichloroethane-d4	5.577	65	78062	11.224 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.24%	
60) Toluene-d8	7.678	98	306168	9.558 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.58%	
83) 4-Bromofluorobenzene	11.274	95	112818	9.425 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.25%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.676	50	744	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.036	94	235	0.081 ug/L	98
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	2.784	76	277	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.346	43	4144M1	3.470 ug/L	
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	4.584	96	586	0.091 ug/L #	51
29) 2,2-Dichloropropane	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
32) Chloroform	4.846	83	686	N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A15.D
Acq On : 8 Nov 2017 2:47 pm
Operator : VOA101:KD
Sample : l1739725-11,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 15:27:40 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.037	97	62	N.D.		
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	0.000		0	N.D.		
41) Benzene	5.441	78	52	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.074	95	718	0.111	ug/L #	29
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	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.229	166	13222	1.990	ug/L	97
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	0.000		0	N.D.	d	
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	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	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	0.000		0	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.		
94) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A15.D
Acq On : 8 Nov 2017 2:47 pm
Operator : VOA101:KD
Sample : l1739725-11,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 15:27:40 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.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.	

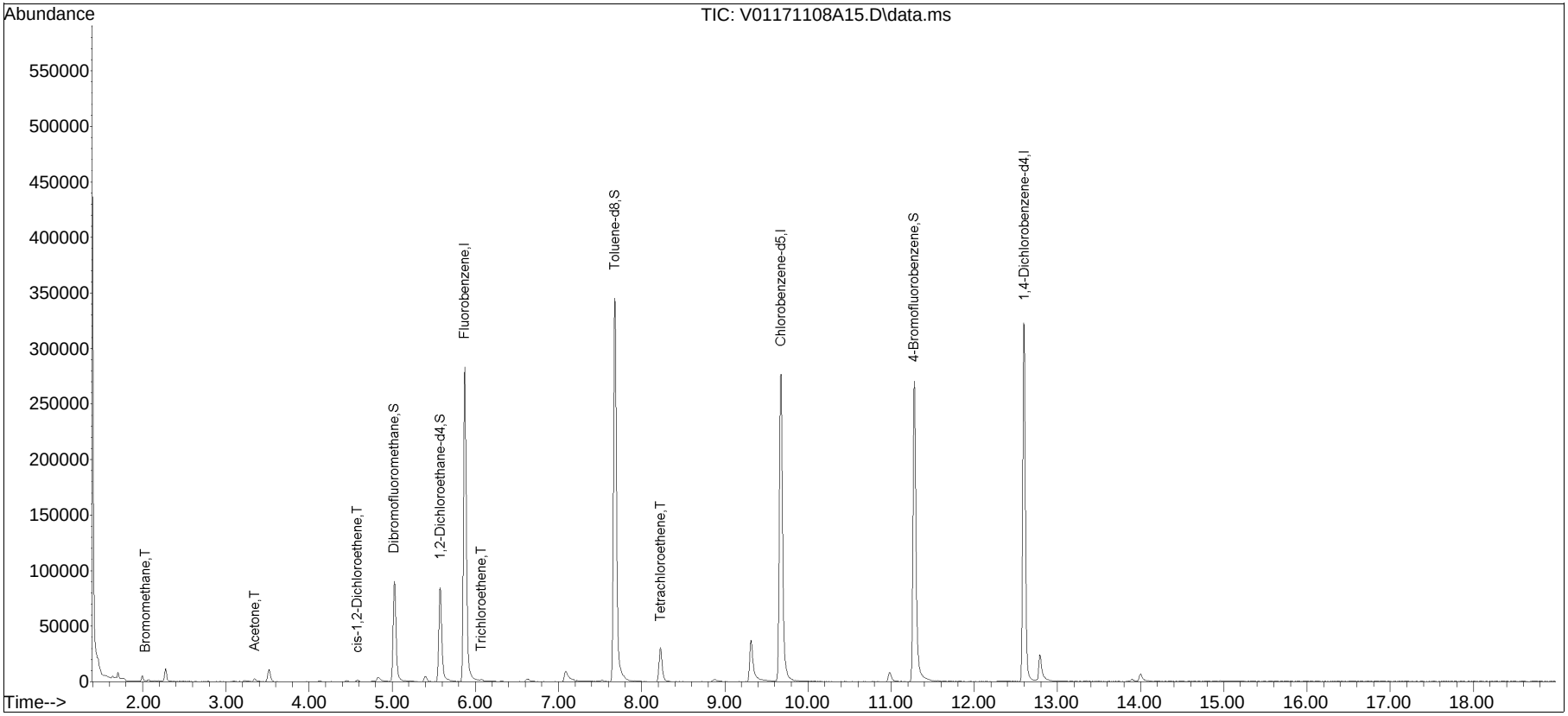
(#) = qualifier out of range (m) = manual integration (+) = signals summed

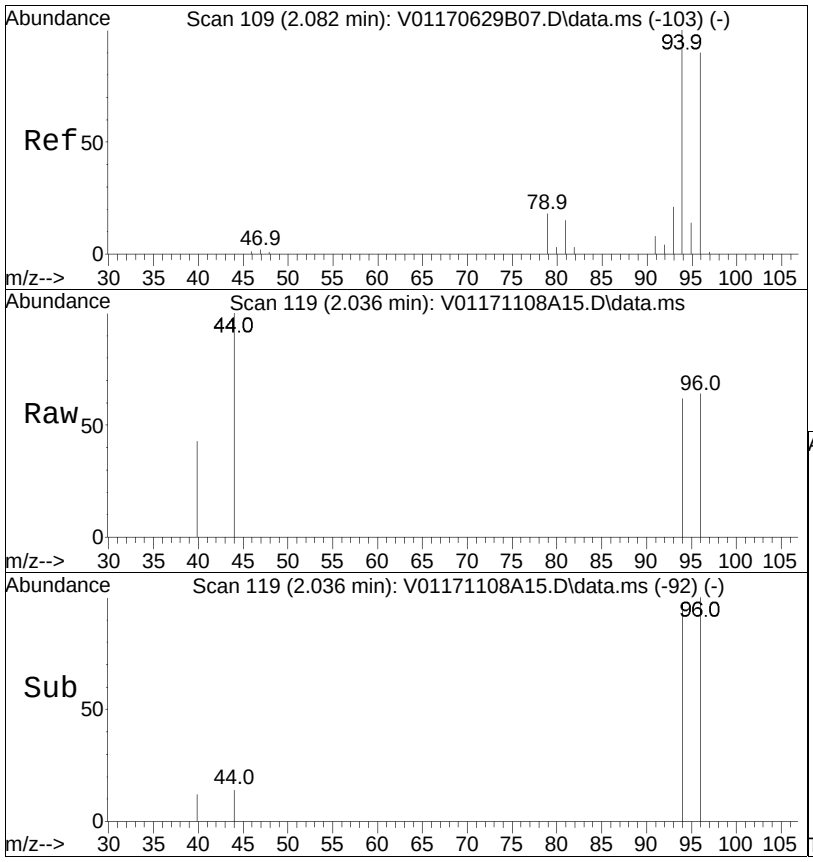
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A15.D
Acq On : 8 Nov 2017 2:47 pm
Operator : VOA101:KD
Sample : l1739725-11,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 15:27:40 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

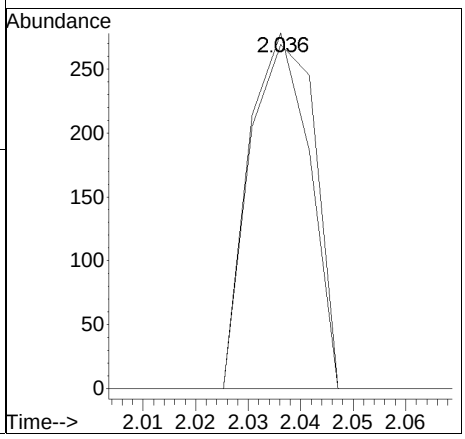


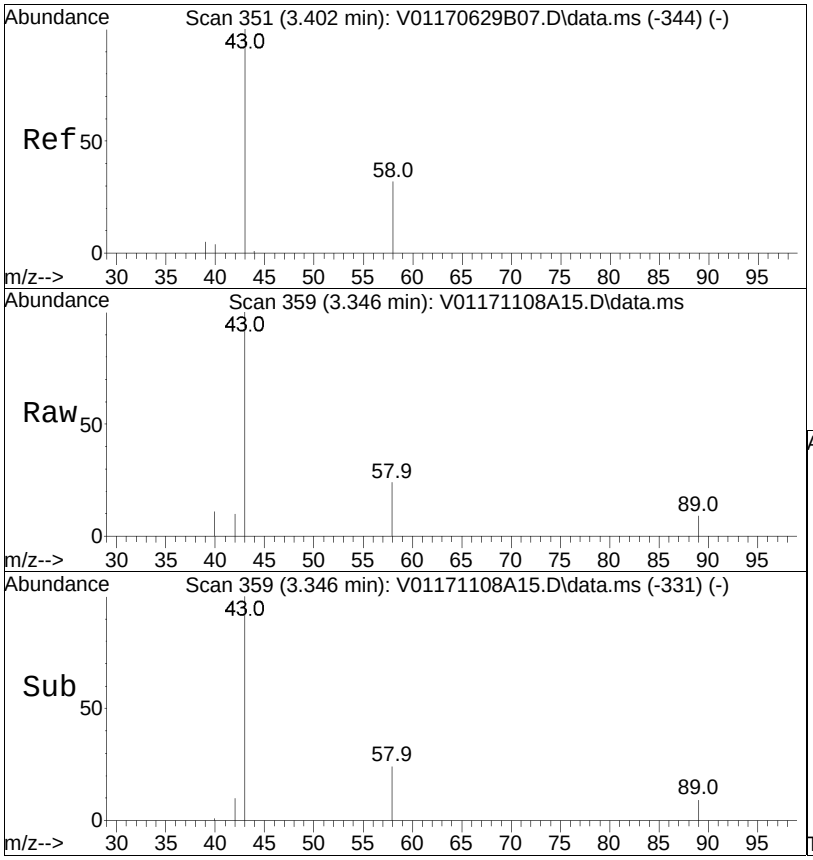


#5
Bromomethane
Concen: 0.08 ug/L
RT: 2.036 min Scan# 119
Delta R.T. -0.002 min
Lab File: V01171108A15.D
Acq: 8 Nov 2017 2:47 pm

Tgt Ion: 94 Resp: 235

Ion	Ratio	Lower	Upper
94	100		
96	94.5	73.0	113.0

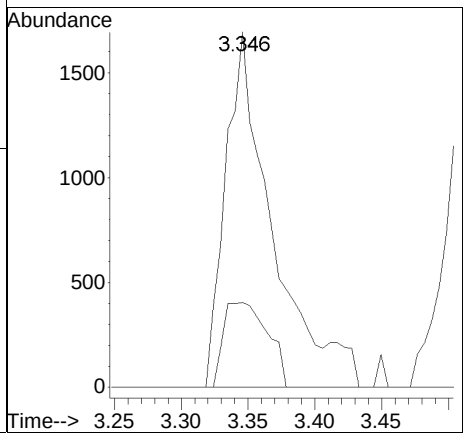


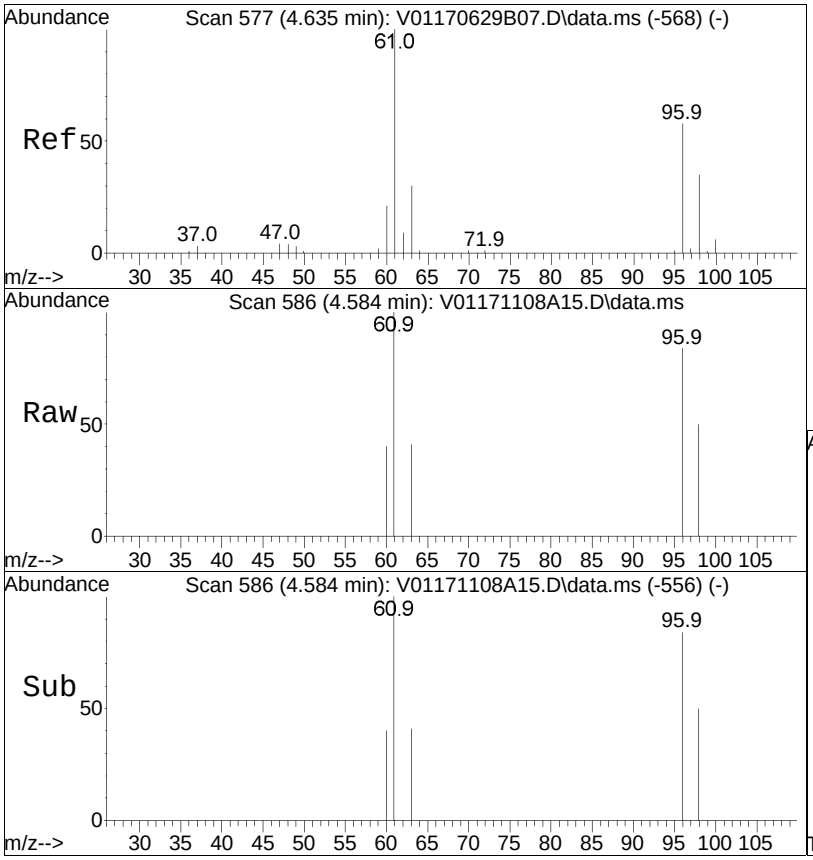


#17
Acetone
Concen: 3.47 ug/L M1
RT: 3.346 min Scan# 359
Delta R.T. 0.004 min
Lab File: V01171108A15.D
Acq: 8 Nov 2017 2:47 pm

Tgt Ion: 43 Resp: 4144

Ion	Ratio	Lower	Upper
43	100		
58	22.5	21.8	32.6

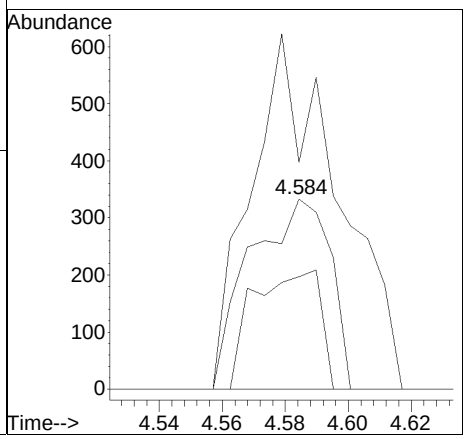


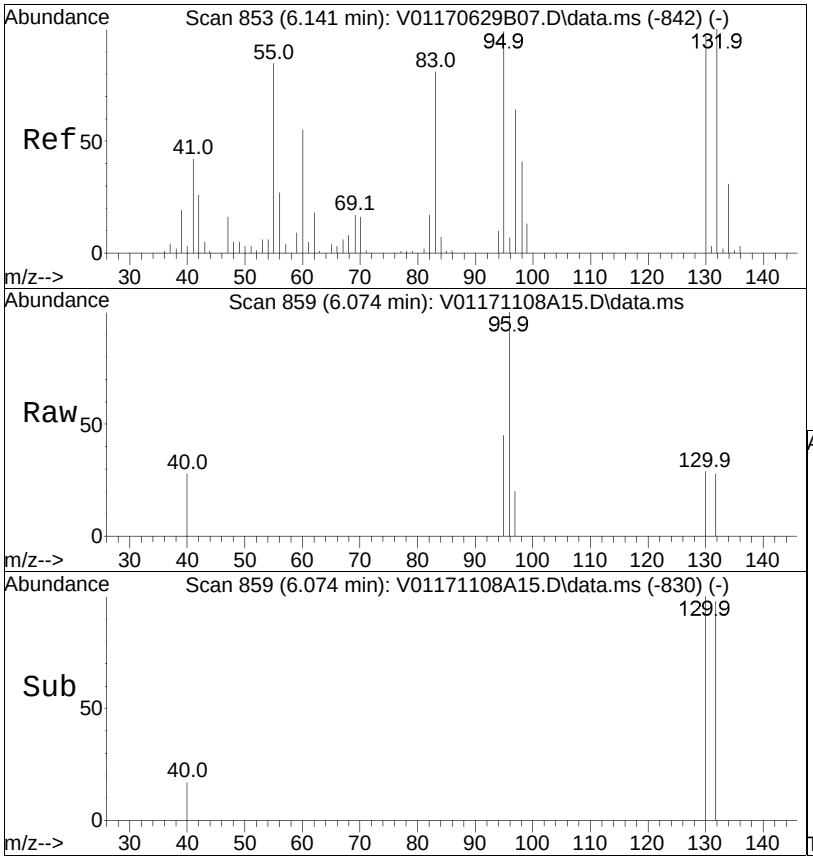


#28
cis-1,2-Dichloroethene
Concen: 0.09 ug/L
RT: 4.584 min Scan# 586
Delta R.T. 0.014 min
Lab File: V01171108A15.D
Acq: 8 Nov 2017 2:47 pm

Tgt Ion: 96 Resp: 586

Ion	Ratio	Lower	Upper
96	100		
61	203.8	101.4	152.0#
98	52.2	50.2	75.4

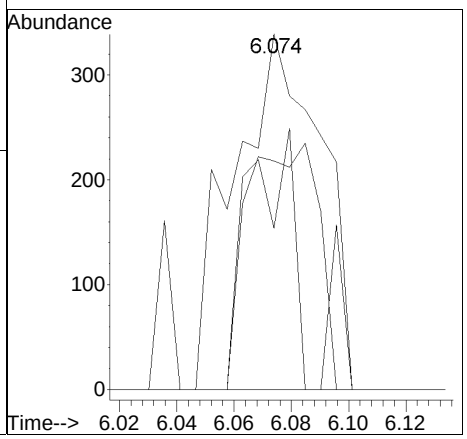


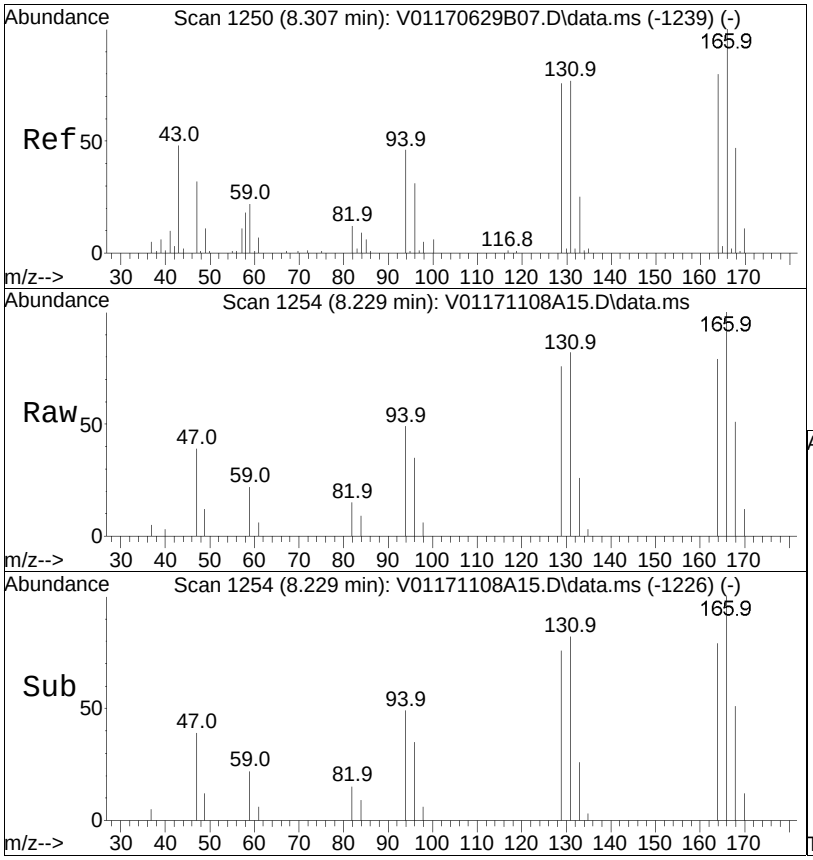


#48
Trichloroethene
Concen: 0.11 ug/L
RT: 6.074 min Scan# 859
Delta R.T. 0.009 min
Lab File: V01171108A15.D
Acq: 8 Nov 2017 2:47 pm

Tgt Ion: 95 Resp: 718

Ion	Ratio	Lower	Upper
95	100		
97	37.6	55.1	82.7#
130	0.0	71.9	107.9#

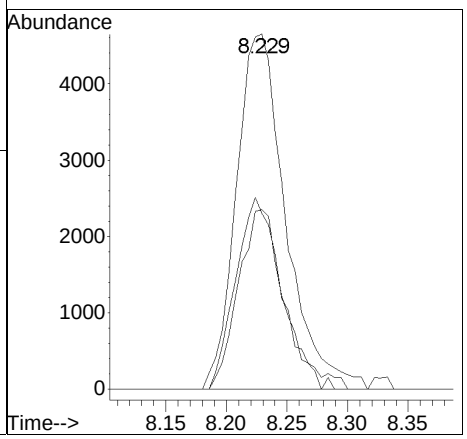




#63
Tetrachloroethene
Concen: 1.99 ug/L
RT: 8.229 min Scan# 1254
Delta R.T. 0.004 min
Lab File: V01171108A15.D
Acq: 8 Nov 2017 2:47 pm

Tgt Ion:166 Resp: 13222

Ion	Ratio	Lower	Upper
166	100		
168	47.4	26.8	66.8
94	49.9	33.1	73.1

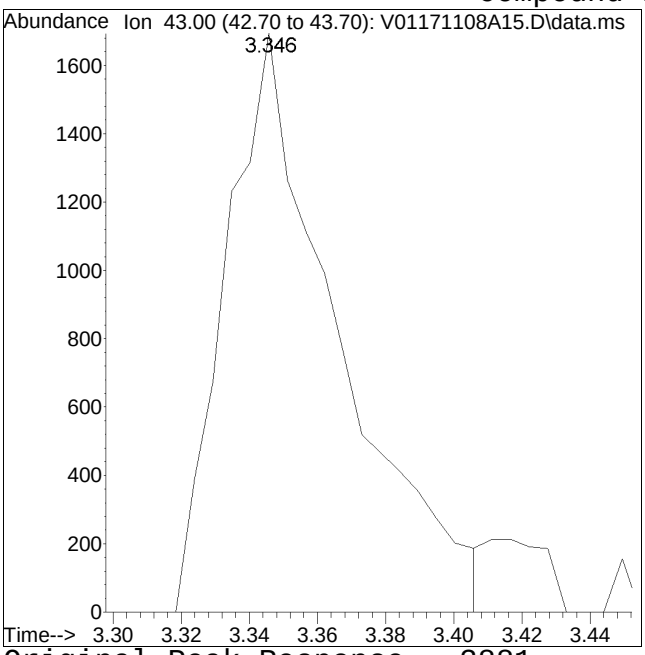


Manual Integration Report

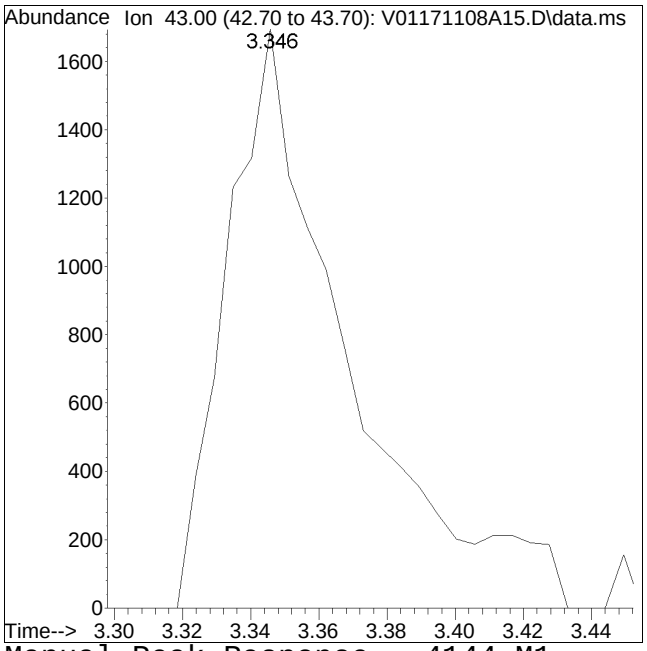
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A15.D
Date Inj'd : 11/8/2017 2:47 pm
Sample : l1739725-11,31,10,10,,a

Method : V101_170928_8260.m
Operator : VOA101:KD
Instrument : VOA 101
Quant Date : 11/8/2017 3:26 pm

Compound #17: Acetone



Original Peak Response = 3881



Manual Peak Response = 4144 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A16.D
Acq On : 8 Nov 2017 3:15 pm
Operator : VOA101:MKS
Sample : l1739725-12,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 19:02:45 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.872	96	301418	10.000 ug/L	0.00
Standard Area 1 = 327258			Recovery =	92.10%	
59) Chlorobenzene-d5	9.675	117	230553	10.000 ug/L	0.00
Standard Area 1 = 249731			Recovery =	92.32%	
79) 1,4-Dichlorobenzene-d4	12.600	152	107537	10.000 ug/L	0.00
Standard Area 1 = 115791			Recovery =	92.87%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.026	113	71766	10.175 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.75%	
43) 1,2-Dichloroethane-d4	5.577	65	79070	11.383 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	113.83%	
60) Toluene-d8	7.678	98	304185	9.488 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.88%	
83) 4-Bromofluorobenzene	11.274	95	112335	9.316 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.16%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	1.752	62	994	0.111 ug/L	90
5) Bromomethane	0.000		0	N.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	2.773	76	262	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.449	96	64	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	4.573	96	3127	0.484 ug/L #	76
29) 2,2-Dichloropropane	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A16.D
Acq On : 8 Nov 2017 3:15 pm
Operator : VOA101:MKS
Sample : l1739725-12,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 19:02:45 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.446	78	458	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	6.074	95	1536	0.238	ug/L	95
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	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.229	166	13567	2.040	ug/L	97
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	9.189	43	52	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.768	91	1409	N.D.		
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
76) p/m Xylene	9.964	106	1292	0.103	ug/L	85
77) o Xylene	10.526	106	5654	0.499	ug/L	96
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.935	105	3164	0.092	ug/L	97
84) Bromobenzene	0.000		0	N.D.		
85) n-Propylbenzene	11.465	91	4166	0.105	ug/L #	89
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
88) 4-Ethyltoluene	11.596	105	278	N.D.		
89) 2-Chlorotoluene	0.000		0	N.D.		
90) 1,3,5-Trimethylbenzene	0.000		0	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	0.000		0	N.D.		
94) tert-Butylbenzene	12.065	119	510	N.D.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A16.D
Acq On : 8 Nov 2017 3:15 pm
Operator : VOA101:MKS
Sample : l1739725-12,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 19:02:45 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	1,2,4-Trimethylbenzene	12.158	105	4020	0.152	ug/L		95
98)	sec-Butylbenzene	12.261	105	12286	0.385	ug/L	#	85
99)	p-Isopropyltoluene	12.392	119	1485	N.D.			
100)	1,3-Dichlorobenzene	0.000		0	N.D.			
101)	1,4-Dichlorobenzene	0.000		0	N.D.			
102)	p-Diethylbenzene	12.851	119	2176	0.150	ug/L		92
103)	n-Butylbenzene	12.916	91	3646	0.162	ug/L		92
104)	1,2-Dichlorobenzene	0.000		0	N.D.			
105)	1,2,4,5-Tetramethylben...	13.729	119	908	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	14.968	128	161	N.D.			
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

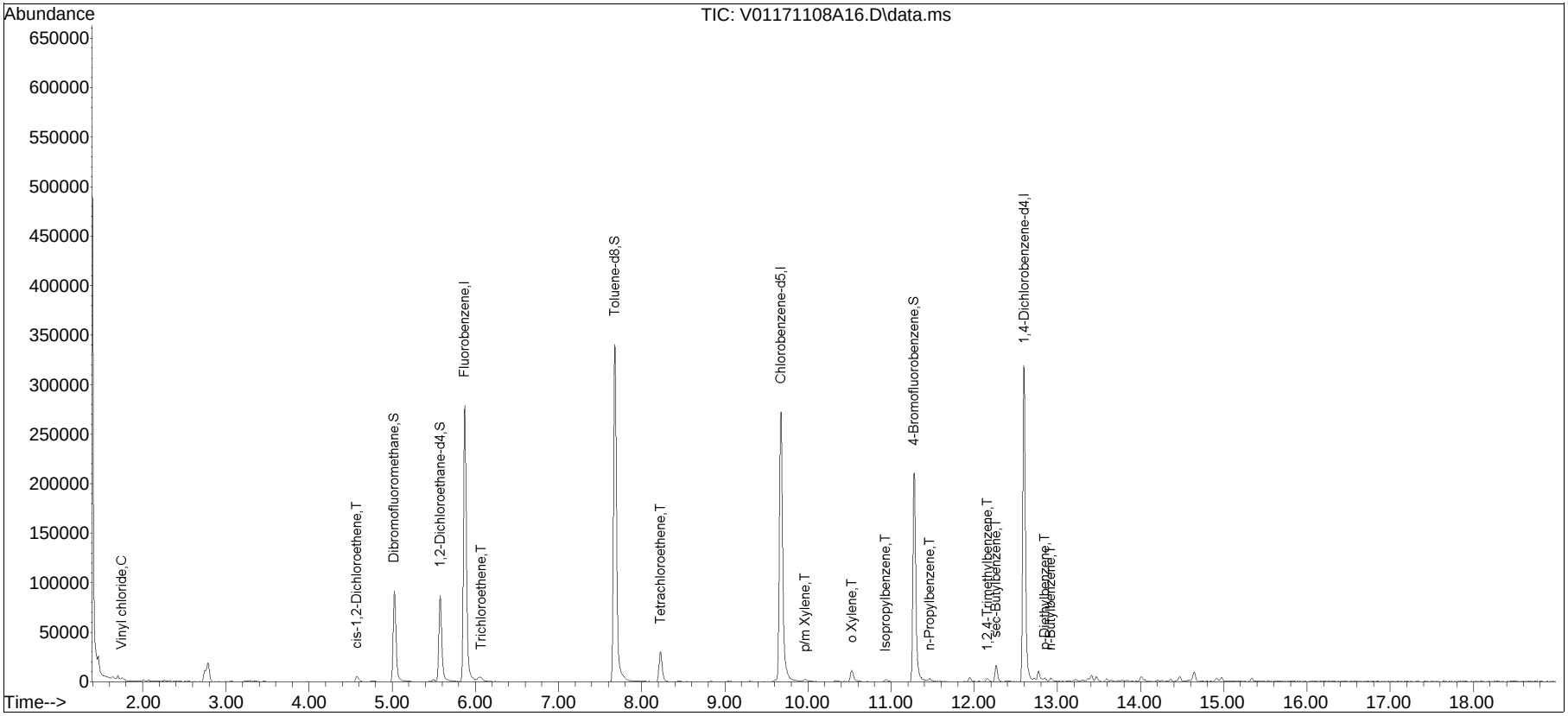
(#) = qualifier out of range (m) = manual integration (+) = signals summed

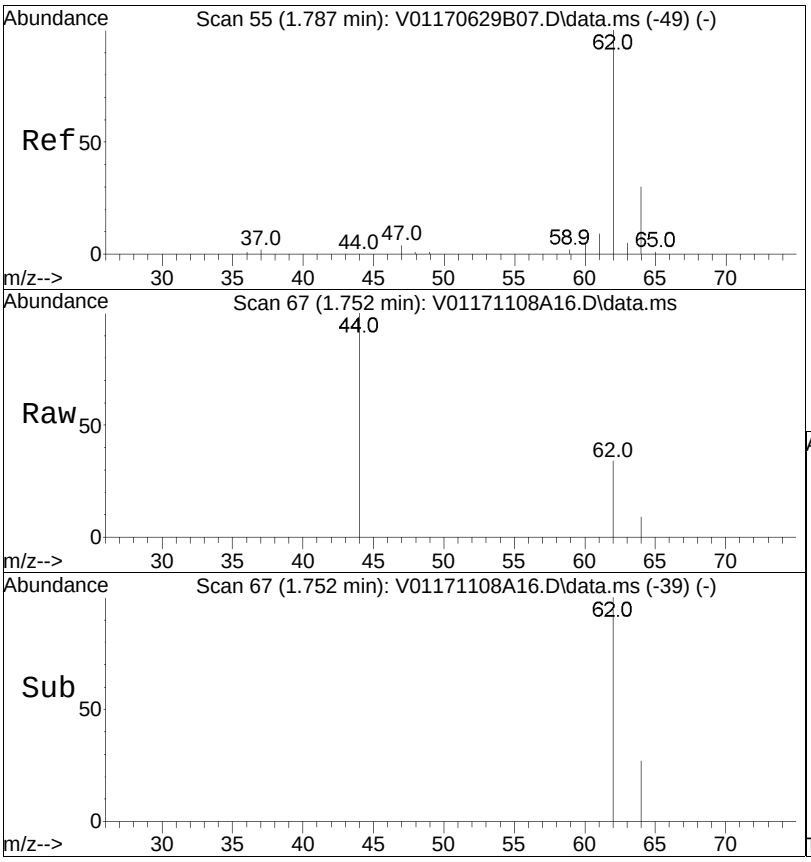
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A16.D
Acq On : 8 Nov 2017 3:15 pm
Operator : VOA101:MKS
Sample : l1739725-12,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 19:02:45 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•

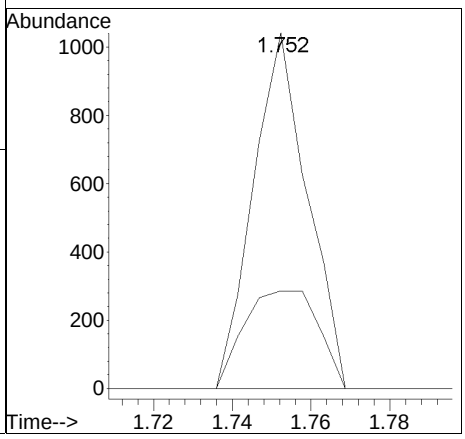


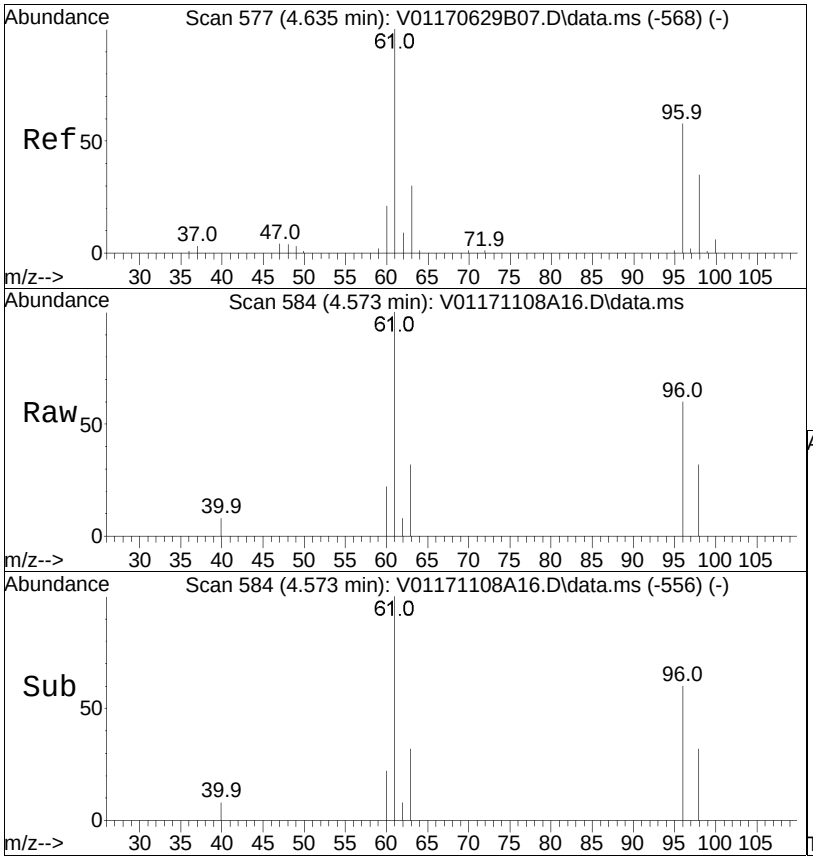


#4
Vinyl chloride
Concen: 0.11 ug/L
RT: 1.752 min Scan# 67
Delta R.T. 0.003 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion: 62 Resp: 994

Ion	Ratio	Lower	Upper
62	100		
64	37.6	12.3	52.3

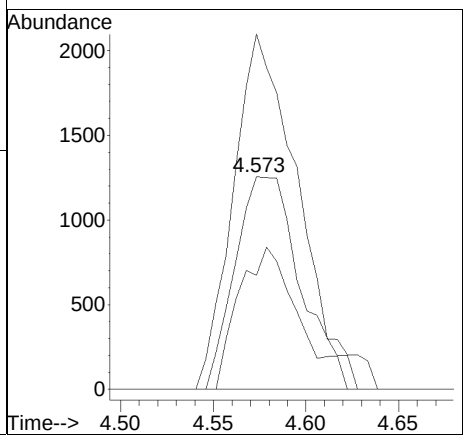


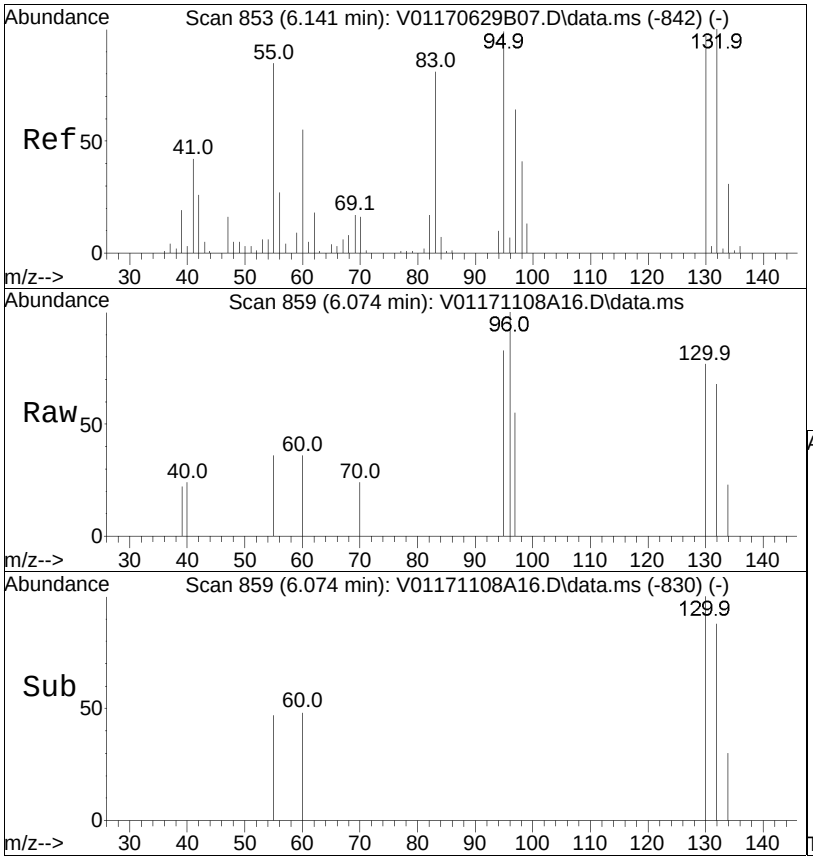


#28
cis-1,2-Dichloroethene
Concen: 0.48 ug/L
RT: 4.573 min Scan# 584
Delta R.T. 0.003 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion: 96 Resp: 3127

Ion	Ratio	Lower	Upper
96	100		
61	165.9	101.4	152.0#
98	60.2	50.2	75.4

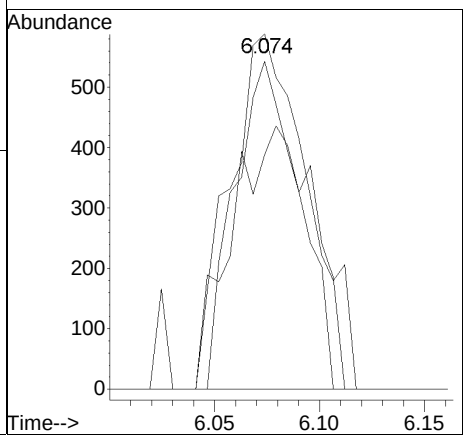


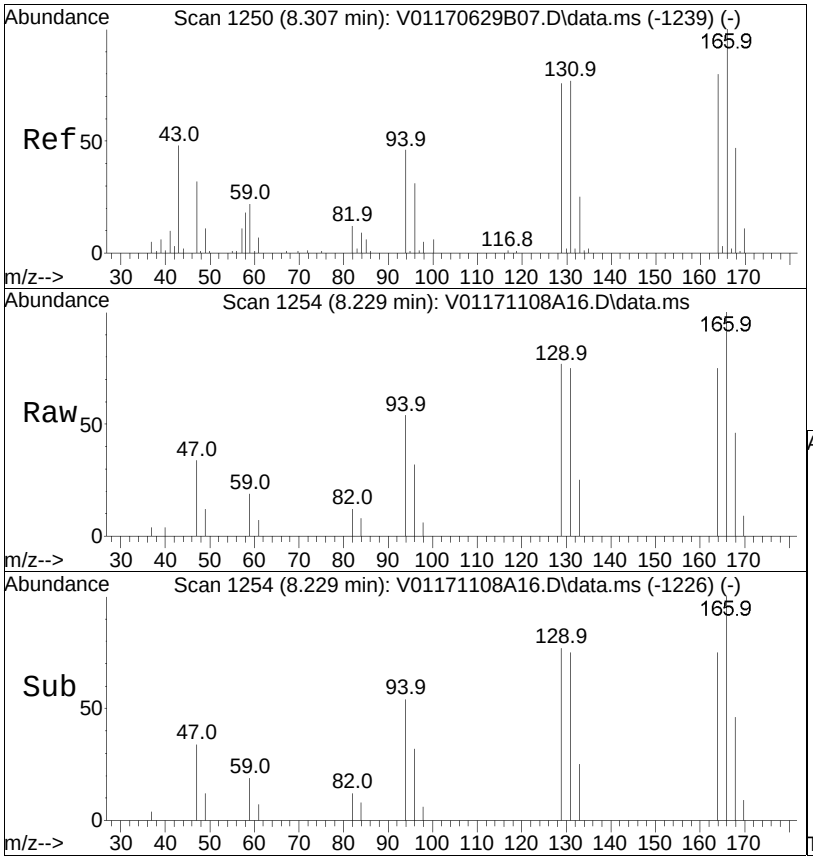


#48
Trichloroethene
Concen: 0.24 ug/L
RT: 6.074 min Scan# 859
Delta R.T. 0.009 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion: 95 Resp: 1536

Ion	Ratio	Lower	Upper
95	100		
97	70.4	55.1	82.7
130	83.1	71.9	107.9

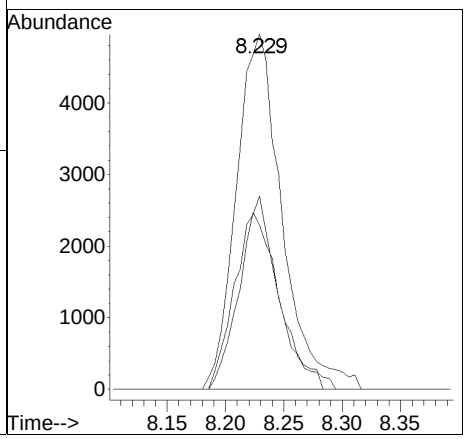


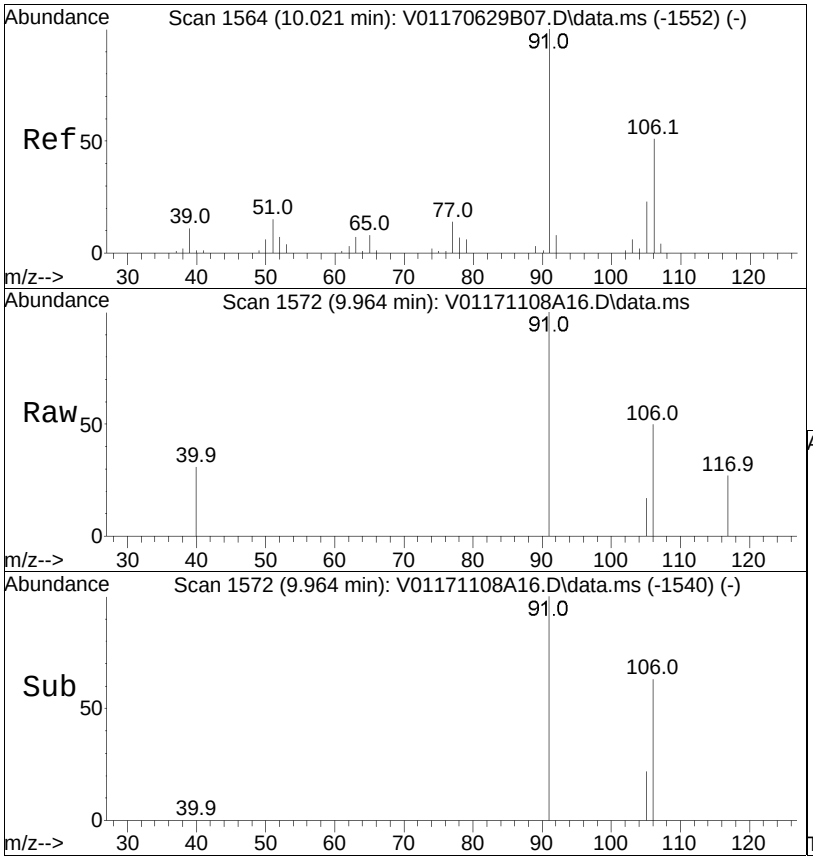


#63
Tetrachloroethene
Concen: 2.04 ug/L
RT: 8.229 min Scan# 1254
Delta R.T. 0.004 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:166 Resp: 13567

Ion	Ratio	Lower	Upper
166	100		
168	45.3	26.8	66.8
94	50.0	33.1	73.1

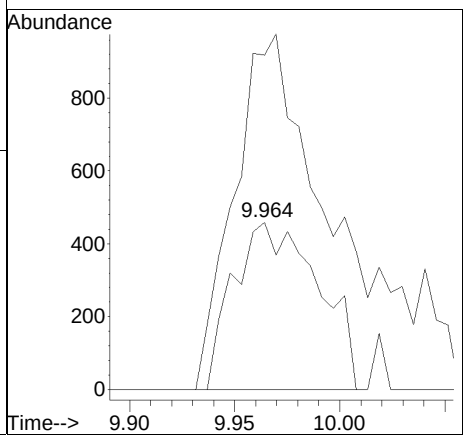


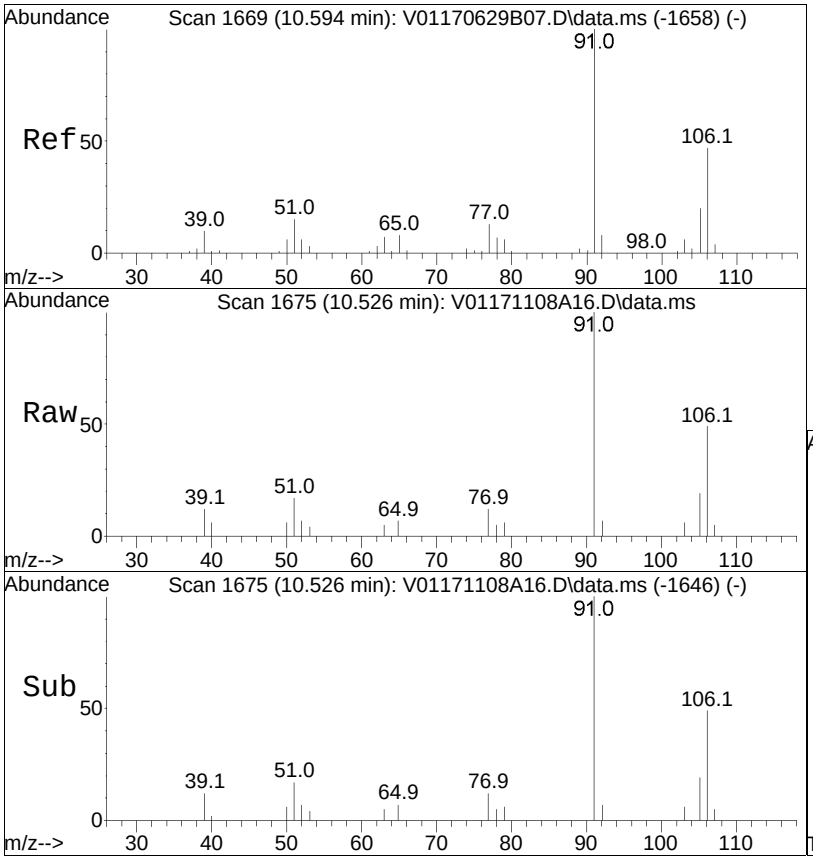


#76
p/m Xylene
Concen: 0.10 ug/L
RT: 9.964 min Scan# 1572
Delta R.T. 0.025 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:106 Resp: 1292

Ion	Ratio	Lower	Upper
106	100		
91	242.2	174.8	262.2

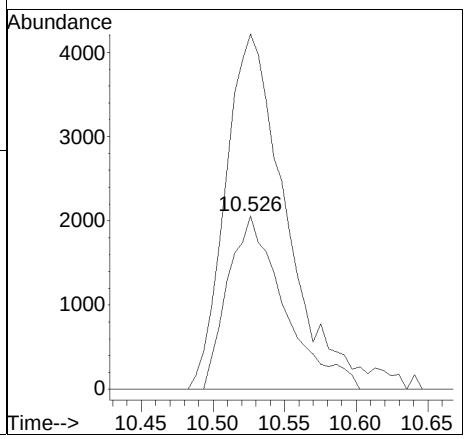


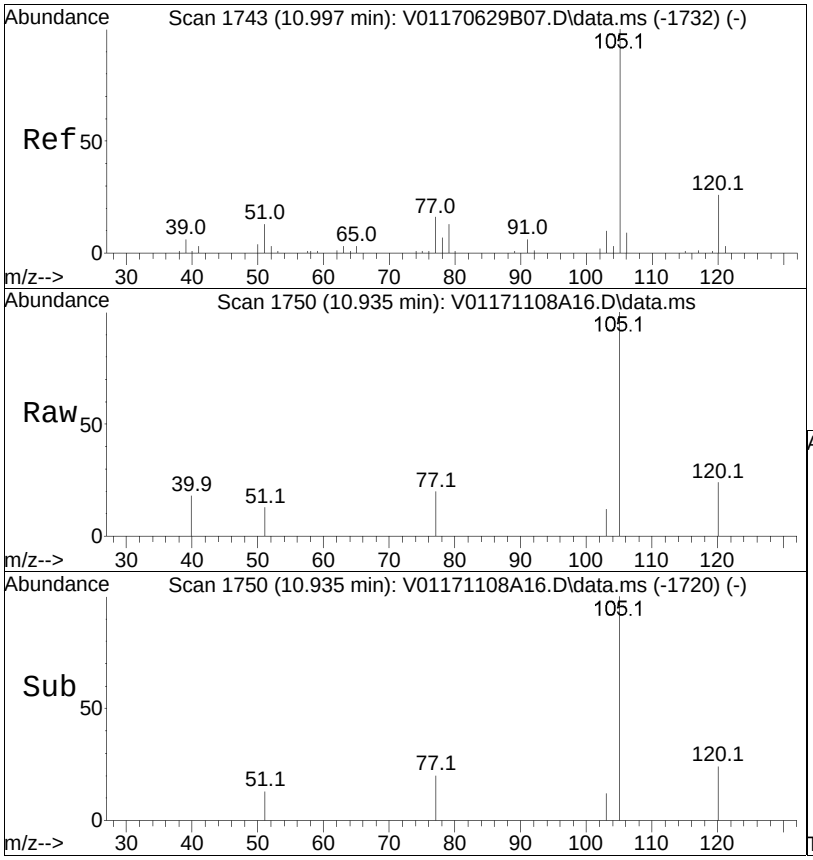


#77
o Xylene
Concen: 0.50 ug/L
RT: 10.526 min Scan# 1675
Delta R.T. 0.009 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:106 Resp: 5654

Ion	Ratio	Lower	Upper
106	100		
91	223.4	184.5	276.7

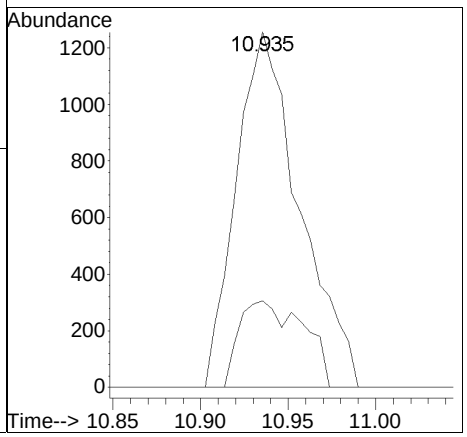


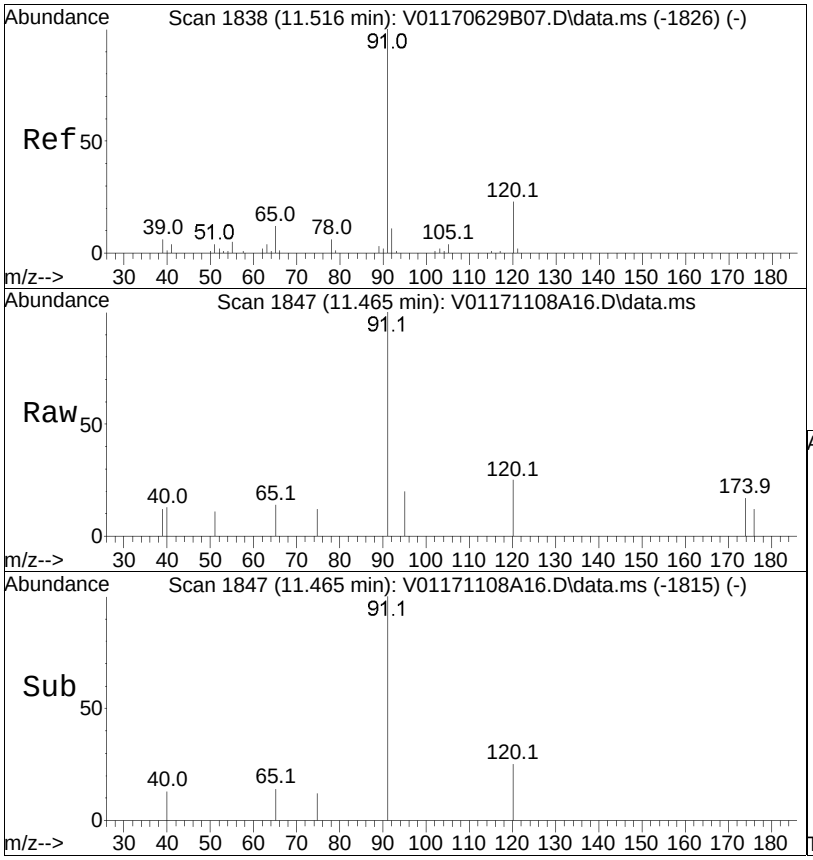


#82
Isopropylbenzene
Concen: 0.09 ug/L
RT: 10.935 min Scan# 1750
Delta R.T. 0.014 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:105 Resp: 3164

Ion	Ratio	Lower	Upper
105	100		
120	24.6	6.1	46.1

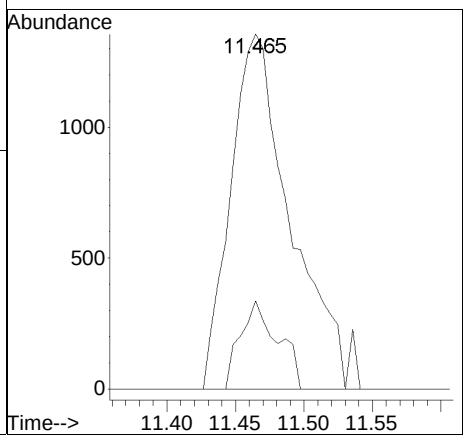


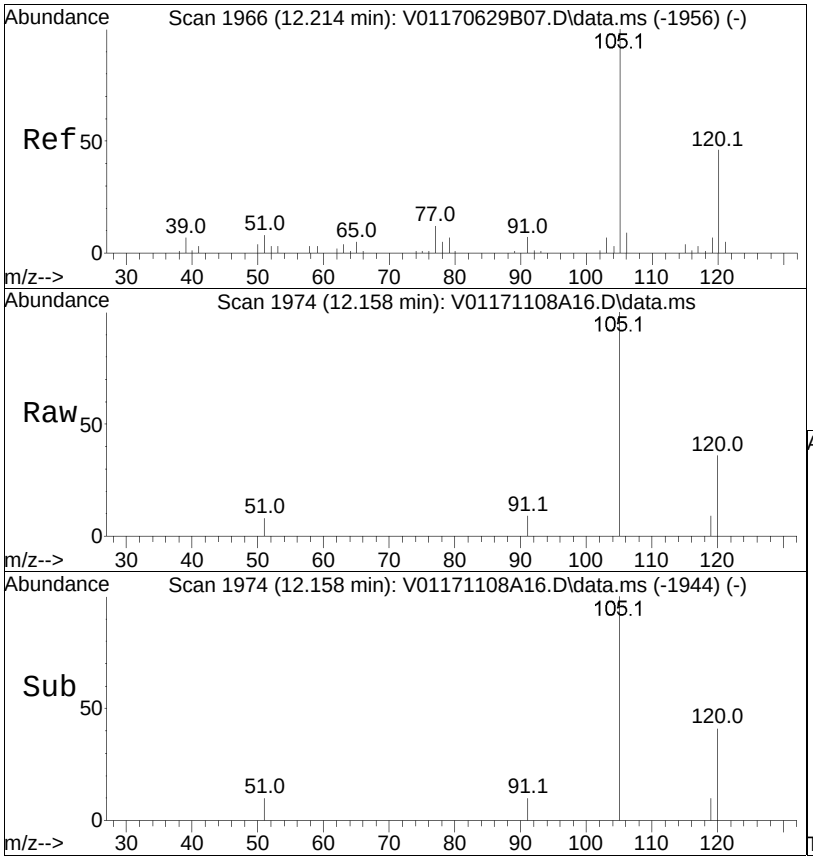


#85
n-Propylbenzene
Concen: 0.11 ug/L
RT: 11.465 min Scan# 1847
Delta R.T. 0.026 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion: 91 Resp: 4166

Ion	Ratio	Lower	Upper
91	100		
120	15.5	16.6	25.0#

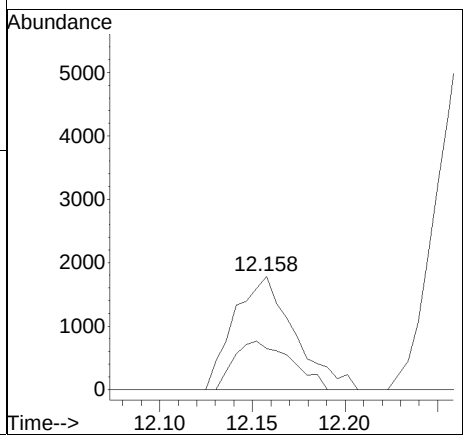


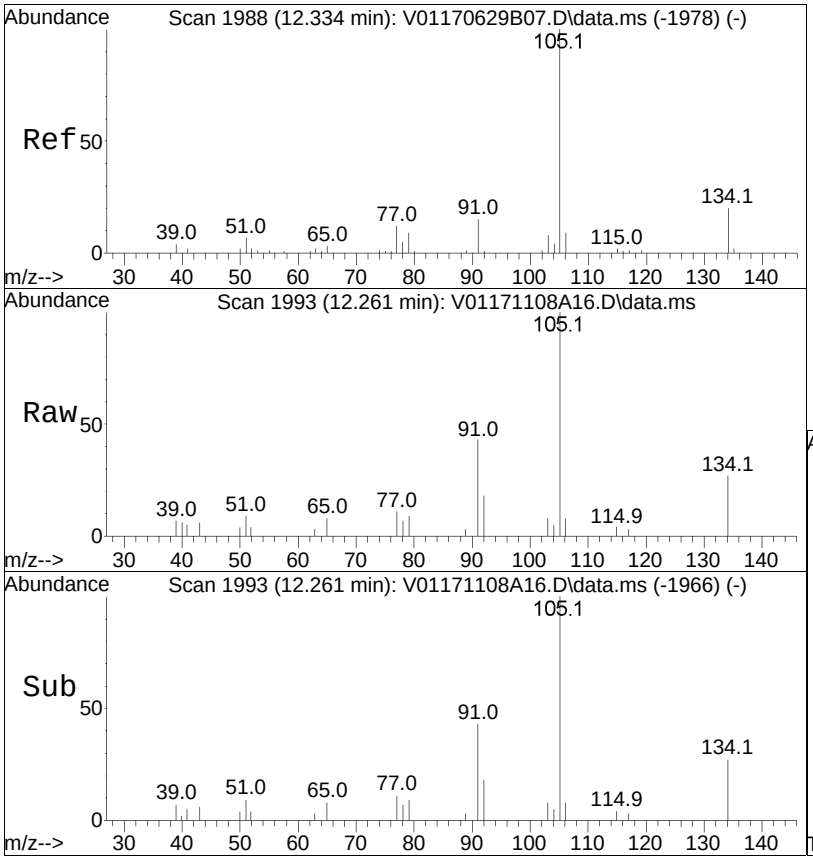


#97
1,2,4-Trimethylbenzene
Concen: 0.15 ug/L
RT: 12.158 min Scan# 1974
Delta R.T. 0.015 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:105 Resp: 4020

Ion	Ratio	Lower	Upper
105	100		
120	40.4	35.0	52.6

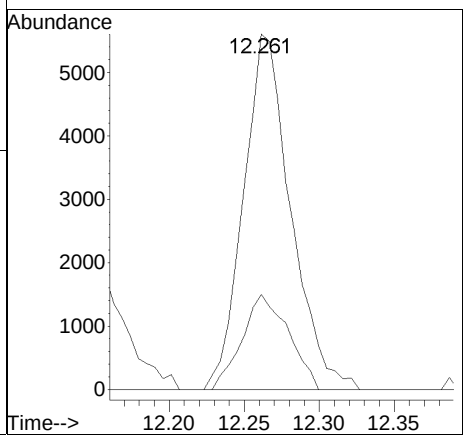


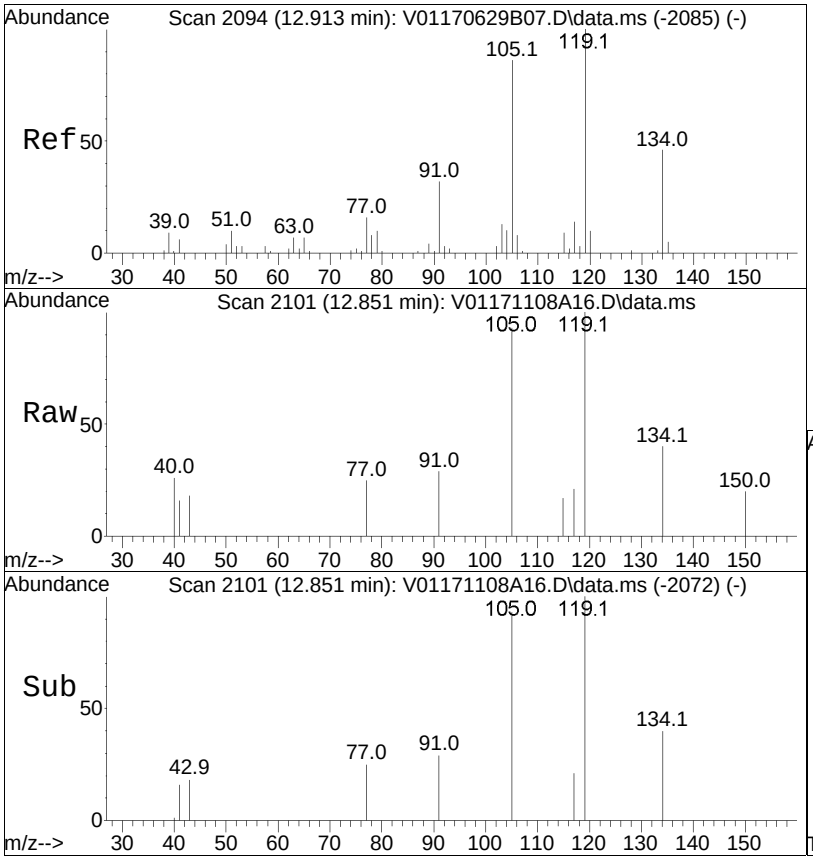


#98
sec-Butylbenzene
Concen: 0.39 ug/L
RT: 12.261 min Scan# 1993
Delta R.T. -0.002 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:105 Resp: 12286

Ion	Ratio	Lower	Upper
105	100		
134	26.2	12.5	26.1#

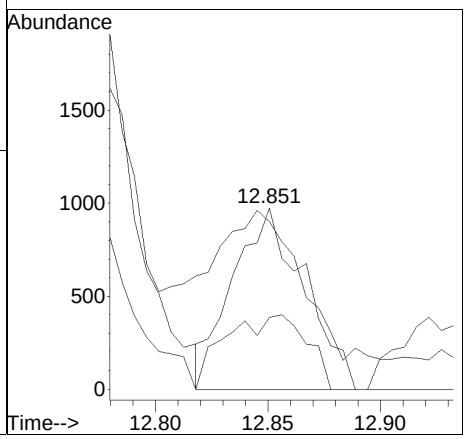


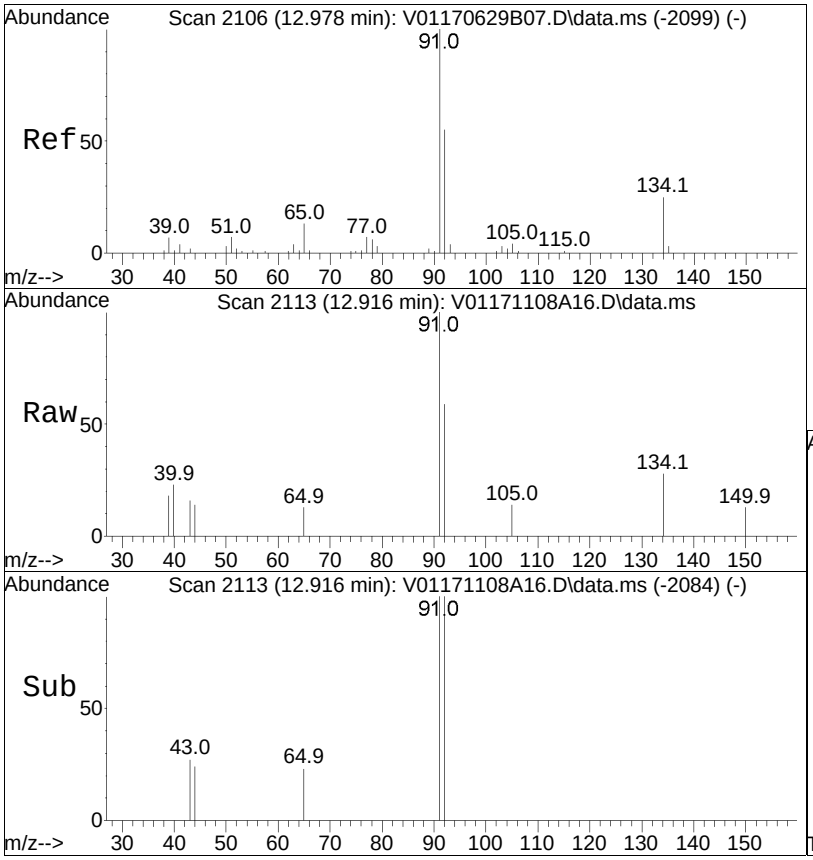


#102
p-Diethylbenzene
Concen: 0.15 ug/L
RT: 12.851 min Scan# 2101
Delta R.T. 0.010 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion:119 Resp: 2176

Ion	Ratio	Lower	Upper
119	100		
105	100.0	57.7	119.9
134	46.1	30.0	62.2

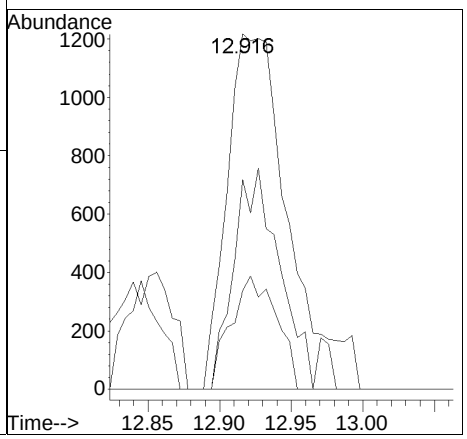




#103
n-Butylbenzene
Concen: 0.16 ug/L
RT: 12.916 min Scan# 2113
Delta R.T. 0.009 min
Lab File: V01171108A16.D
Acq: 8 Nov 2017 3:15 pm

Tgt Ion: 91 Resp: 3646

Ion	Ratio	Lower	Upper
91	100		
92	45.9	43.4	65.0
134	23.6	19.0	28.4



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1Q	Method	: V101_170928_8260.m
Data File	: V01171108A16.D	Operator	: VOA101:MKS
Date Inj'd	: 11/8/2017 3:15 pm	Instrument	: VOA 101
Sample	: l1739725-12,31,10,10,,a	Quant Date	: 11/8/2017 7:00 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A17.D
Acq On : 8 Nov 2017 3:43 pm
Operator : VOA101:MKS
Sample : l1739725-13,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 19:04:00 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.878	96	296823	10.000	ug/L	0.00
Standard Area 1 = 327258			Recovery = 90.70%			
59) Chlorobenzene-d5	9.675	117	221880	10.000	ug/L	0.00
Standard Area 1 = 249731			Recovery = 88.85%			
79) 1,4-Dichlorobenzene-d4	12.594	152	101106	10.000	ug/L	0.00
Standard Area 1 = 115791			Recovery = 87.32%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.026	113	69448	9.999	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.99%			
43) 1,2-Dichloroethane-d4	5.577	65	74164	10.842	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.42%			
60) Toluene-d8	7.678	98	296525	9.611	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.11%			
83) 4-Bromofluorobenzene	11.279	95	107558	9.487	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.87%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.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	2.778	76	172	N.D.		
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	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.		

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A17.D
Acq On : 8 Nov 2017 3:43 pm
Operator : VOA101:MKS
Sample : l1739725-13,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 19:04:00 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	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	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	9.681	91	162		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		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	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		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	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A17.D
Acq On : 8 Nov 2017 3:43 pm
Operator : VOA101:MKS
Sample : l1739725-13,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 19:04:00 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
99)	p-Isopropyltoluene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
102)	p-Diethylbenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.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.	

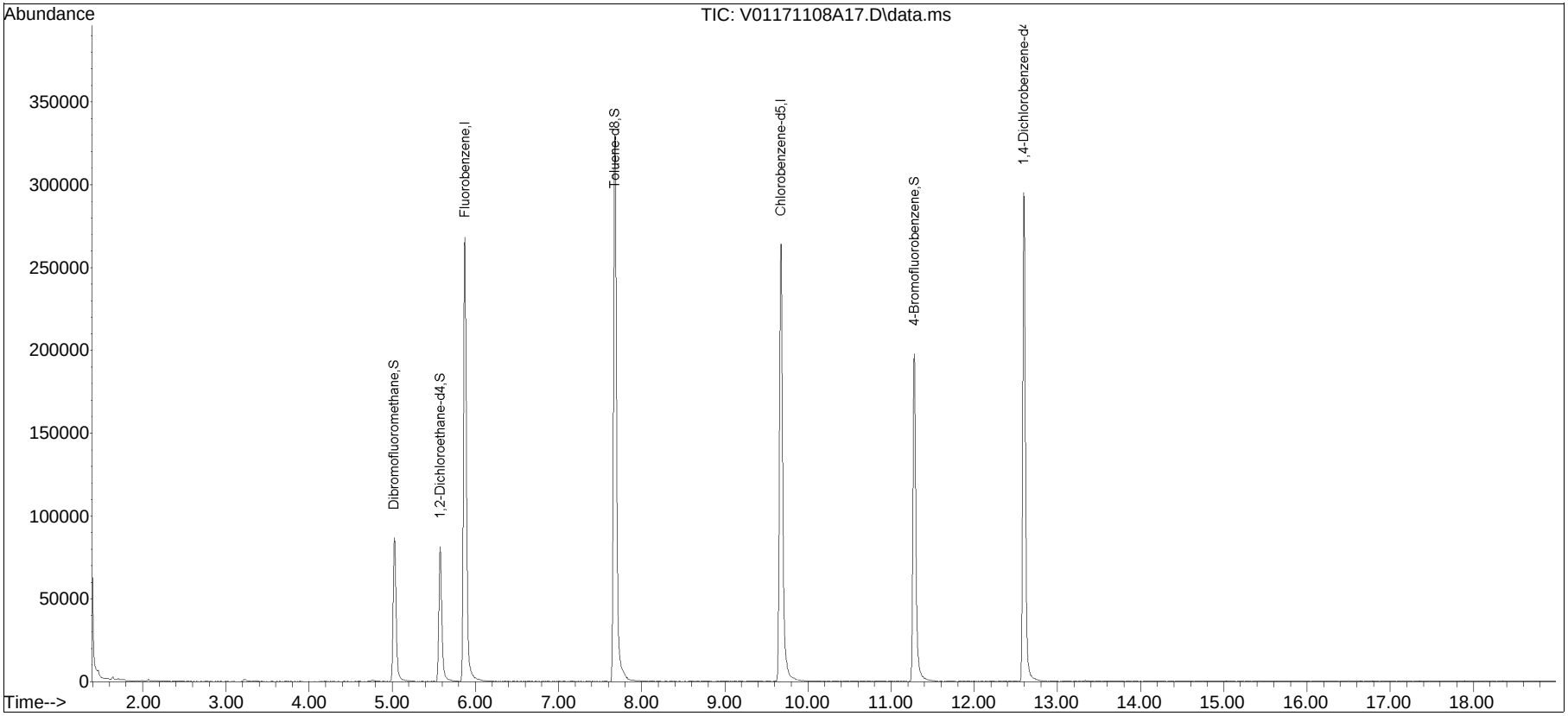
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A17.D
Acq On : 8 Nov 2017 3:43 pm
Operator : VOA101:MKS
Sample : l1739725-13,31,10,10,,a
Misc : WG1060957,ICAL14055
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 08 19:04:00 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V01171108A01.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1Q	Method	: V101_170928_8260.m
Data File	: V01171108A17.D	Operator	: VOA101:MKS
Date Inj'd	: 11/8/2017 3:43 pm	Instrument	: VOA 101
Sample	: l1739725-13,31,10,10,,a	Quant Date	: 11/8/2017 7:00 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**	**Lab Number**	**: L1739725**
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL13890**
Calibration dates	**: 08/04/17 20:41 08/05/17 00:48**		

Calibration Files
L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.143	0.204	0.217	0.217	0.204	0.212	0.205	0.200	12.89
3)	TP	Chloromethane		0.223	0.252	0.228	0.230	0.221	0.222	0.221	0.228	4.79
4)	TC	Vinyl chloride	0.224	0.256	0.319	0.301	0.309	0.292	0.297	0.287	0.286	10.88
5)	TP	Bromomethane		0.172	0.185	0.162	0.181	0.194	0.205	0.211	0.187	9.40
6)	TP	Chloroethane		0.136	0.181	0.173	0.181	0.174	0.179	0.177	0.172	9.34
7)	TP	Trichlorofluor		0.302	0.366	0.410	0.427	0.406	0.426	0.416	0.393	11.51
8)	TP	Ethyl ether		0.108	0.121	0.122	0.128	0.123	0.126	0.128	0.122	5.61
10)	TC	1,1-Dichloroet		0.194	0.249	0.242	0.253	0.246	0.258	0.257	0.243	9.16
11)	TP	Carbon disulfide		0.589	0.703	0.599	0.622	0.598	0.631	0.623	0.624	6.17
12)	TP	Freon-113		0.149	0.198	0.222	0.231	0.220	0.234	0.231	0.212	14.36
13)	TP	Iodomethane			0.273	0.293	0.338	0.340	0.343	0.335	0.320	9.27
14)	TP	Acrolein			0.031	0.035	0.038	0.035	0.036	0.037	0.035#	6.15
15)	TP	Methylene chlo		0.250	0.274	0.254	0.263	0.254	0.258	0.259	0.259	3.02
17)	TP	Acetone		0.030	0.034	0.031	0.033	0.030	0.030	0.030	0.031#	5.68
18)	TP	trans-1,2-Dich		0.243	0.296	0.276	0.290	0.280	0.290	0.288	0.280	6.37
19)	TP	Methyl acetate		0.069	0.085	0.084	0.088	0.081	0.081	0.080	0.081#	7.44
21)	TP	Methyl tert butyl ether		0.556	0.615	0.606	0.632	0.594	0.599	0.596	0.600	3.89
22)	TP	tert-Butyl alc		0.005	0.008	0.008	0.009	0.008	0.008	0.008	0.008#	16.77
24)	TP	Diisopropyl ether		0.599	0.684	0.652	0.686	0.652	0.651	0.641	0.652	4.48
25)	TP	1,1-Dichloroet		0.392	0.484	0.445	0.464	0.443	0.443	0.435	0.444	6.37
26)	TP	Halothane		0.178	0.219	0.216	0.223	0.215	0.223	0.220	0.214	7.51
27)	TP	Acrylonitrile		0.026	0.045	0.049	0.051	0.047	0.047	0.047	0.044#	18.29
28)	TP	Ethyl tert-but		0.606	0.685	0.664	0.692	0.653	0.655	0.650	0.658	4.28
29)	TP	Vinyl acetate		0.361	0.408	0.411	0.442	0.414	0.413	0.410	0.408	5.85
30)	TP	cis-1,2-Dichlo		0.272	0.316	0.302	0.313	0.299	0.303	0.301	0.301	4.70
31)	TP	2,2-Dichloropr		0.374	0.409	0.389	0.397	0.372	0.377	0.369	0.384	3.84
32)	TP	Bromochloromet		0.102	0.134	0.131	0.136	0.129	0.128	0.128	0.127	9.06
33)	TP	Cyclohexane		0.274	0.364	0.392	0.405	0.383	0.399	0.388	0.372	12.18
34)	TC	Chloroform		0.421	0.501	0.465	0.476	0.454	0.458	0.453	0.461	5.30
35)	TP	Ethyl acetate		0.118	0.125	0.126	0.135	0.122	0.124	0.121	0.124	4.38
36)	TP	Carbon tetrachloride	0.225	0.287	0.377	0.393	0.413	0.395	0.413	0.408	0.364	19.09
37)	TP	Tetrahydrofuran		0.057	0.049	0.046	0.047	0.042	0.042	0.041	0.046#	11.88
38)	S	Dibromofluoromethane	0.256	0.257	0.257	0.261	0.261	0.259	0.260	0.257	0.258	0.76
39)	TP	1,1,1-Trichlor		0.378	0.453	0.440	0.460	0.437	0.452	0.448	0.438	6.33
41)	TP	2-Butanone		0.031	0.048	0.049	0.051	0.047	0.047	0.047	0.046#	14.74
42)	TP	1,1-Dichloropr		0.310	0.368	0.365	0.381	0.364	0.377	0.369	0.362	6.51
44)	TP	Benzene	0.955	0.977	1.141	1.049	1.179	1.120	1.127	1.104	1.082	7.43

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1739725**
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL13890**
Calibration dates	**: 08/04/17 20:41 08/05/17 00:48**		

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D

L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
45)	TP	Tertiary-Amyl Methyl Ether		0.572	0.629	0.612	0.637	0.596	0.602	0.601	0.607	3.56
46)	S	1,2-Dichloroethane-d4	0.236	0.239	0.240	0.239	0.241	0.240	0.238	0.240	0.239	0.72
47)	T	1,2-Dichloroet		0.264	0.298	0.287	0.295	0.275	0.274	0.272	0.281	4.50
50)	TP	Methyl cyclohe		0.313	0.399	0.433	0.457	0.437	0.463	0.459	0.423	12.61
51)	TP	Trichloroethene	0.222	0.240	0.301	0.284	0.298	0.288	0.300	0.302	0.279	11.05
53)	TP	Dibromomethane		0.093	0.112	0.106	0.109	0.101	0.103	0.105	0.104	6.00
54)	TC	1,2-Dichloropr		0.211	0.242	0.234	0.244	0.236	0.236	0.238	0.235	4.61
56)	TP	2-Chloroethyl		0.102	0.123	0.122	0.127	0.118	0.120	0.121	0.119	6.73
57)	TP	Bromodichlorom		0.317	0.356	0.344	0.365	0.354	0.357	0.360	0.350	4.62
60)	TP	1,4-Dioxane		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000#	10.48
61)	TP	cis-1,3-Dichlo		0.366	0.411	0.398	0.421	0.407	0.410	0.411	0.403	4.45
62)	I	Chlorobenzene-d5	----------ISTD----------									
63)	S	Toluene-d8	1.207	1.228	1.224	1.220	1.195	1.180	1.185	1.178	1.202	1.70
64)	TC	Toluene		0.757	0.875	0.815	0.834	0.791	0.808	0.809	0.813	4.49
65)	TP	4-Methyl-2-pen			0.057	0.060	0.062	0.058	0.060	0.060	0.059#	3.22
66)	TP	Tetrachloroethene		0.351	0.439	0.426	0.436	0.415	0.435	0.441	0.420	7.61
68)	TP	trans-1,3-Dich		0.358	0.411	0.412	0.423	0.401	0.403	0.404	0.402	5.15
70)	TP	Ethyl methacry		0.249	0.271	0.292	0.307	0.290	0.296	0.298	0.286	6.92
71)	TP	1,1,2-Trichlor		0.179	0.200	0.196	0.201	0.188	0.189	0.191	0.192	4.06
72)	TP	Chlorodibromom		0.272	0.297	0.306	0.318	0.306	0.309	0.315	0.303	5.13
73)	TP	1,3-Dichloropr		0.380	0.414	0.399	0.404	0.377	0.378	0.378	0.390	3.92
74)	TP	1,2-Dibromoethane		0.222	0.238	0.238	0.243	0.252	0.255	0.257	0.244	5.01
76)	TP	2-Hexanone		0.068	0.086	0.091	0.096	0.087	0.088	0.089	0.086#	10.26
77)	TP	Chlorobenzene		0.902	1.009	0.947	0.966	0.923	0.935	0.934	0.945	3.63
78)	TC	Ethylbenzene		1.480	1.712	1.626	1.651	1.579	1.584	1.547	1.597	4.70
79)	TP	1,1,1,2-Tetrac		0.298	0.347	0.336	0.345	0.327	0.329	0.327	0.330	4.93
80)	TP	p/m Xylene		0.574	0.690	0.648	0.666	0.633	0.640	0.626	0.640	5.65
81)	TP	o Xylene		0.527	0.612	0.595	0.614	0.587	0.593	0.581	0.587	4.97
82)	TP	Styrene		0.829	0.952	0.959	1.016	0.978	0.967	0.929	0.947	6.17
83)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
84)	TP	Bromoform		0.333	0.370	0.378	0.396	0.393	0.406	0.409	0.384	6.87
86)	TP	Isopropylbenzene		2.911	3.408	3.173	3.180	3.079	3.129	2.987	3.124	5.10
87)	S	4-Bromofluorobenzene	0.889	0.878	0.893	0.864	0.844	0.853	0.856	0.834	0.864	2.45
88)	TP	Bromobenzene		0.744	0.808	0.749	0.752	0.736	0.752	0.751	0.756	3.13
89)	TP	n-Propylbenzene		3.213	3.867	3.643	3.685	3.556	3.570	3.359	3.556	6.05
90)	TP	1,4-Dichlorobu		0.613	0.687	0.651	0.647	0.615	0.612	0.598	0.632	4.92
91)	TP	1,1,2,2-Tetrac		0.471	0.493	0.478	0.480	0.446	0.447	0.431	0.464	4.85
92)	TP	4-Ethyltoluene		2.639	3.185	2.965	2.965	2.797	2.823	2.683	2.865	6.58

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1739725**
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL13890**
Calibration dates	**: 08/04/17 20:41 08/05/17 00:48**		

Calibration Files
L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
93) TP	2-Chlorotoluene		2.192	2.568	2.345	2.345	2.229	2.232	2.170	2.297	6.00
94) TP	1,3,5-Trimethy		2.225	2.667	2.504	2.528	2.422	2.441	2.344	2.447	5.76
95) TP	1,2,3-Trichlor		0.363	0.408	0.381	0.385	0.359	0.358	0.351	0.372	5.41
96) TP	trans-1,4-Dich		0.115	0.120	0.121	0.124	0.116	0.112	0.110	0.117	4.25
97) TP	4-Chlorotoluene		2.044	2.294	2.120	2.127	2.047	2.042	1.974	2.093	4.92
98) TP	tert-Butylbenzene		2.049	2.437	2.270	2.303	2.218	2.250	2.176	2.243	5.30
101) TP	1,2,4-Trimethy		2.233	2.686	2.474	2.520	2.437	2.445	2.355	2.450	5.71
102) TP	sec-Butylbenzene		2.864	3.427	3.285	3.323	3.156	3.184	2.992	3.176	6.13
103) TP	p-Isopropyltol		2.398	2.970	2.830	2.889	2.771	2.789	2.647	2.756	6.79
104) TP	1,3-Dichlorobe		1.359	1.591	1.468	1.490	1.446	1.459	1.434	1.464	4.76
105) TP	1,4-Dichlorobe		1.363	1.590	1.453	1.447	1.416	1.441	1.414	1.446	4.86
106) TP	p-Diethylbenzene		1.352	1.647	1.625	1.654	1.625	1.667	1.620	1.599	6.88
107) TP	n-Butylbenzene		2.072	2.530	2.480	2.548	2.427	2.463	2.338	2.408	6.80
108) TP	1,2-Dichlorobe		1.266	1.387	1.303	1.335	1.296	1.314	1.305	1.315	2.88
109) TP	1,2,4,5-Tetram		2.035	2.467	2.365	2.458	2.409	2.453	2.347	2.362	6.42
110) TP	1,2-Dibromo-3-		0.047	0.078	0.079	0.084	0.081	0.083	0.085	0.077	17.51
111) TP	1,3,5-Trichlor		0.939	1.141	1.091	1.135	1.118	1.148	1.137	1.101	6.71
112) TP	Hexachlorobuta		0.368	0.466	0.498	0.518	0.512	0.543	0.545	0.493	12.42
113) TP	1,2,4-Trichlor		0.844	0.981	0.969	0.984	0.981	1.012	1.007	0.968	5.87
114) TP	Naphthalene		1.580	1.730	1.728	1.779	1.704	1.736	1.716	1.710	3.63
115) TP	1,2,3-Trichlor		0.808	0.893	0.870	0.887	0.869	0.892	0.884	0.872	3.39

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1739725**
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL14055**
Calibration dates	**: 09/28/17 21:33 09/29/17 01:48**		

Calibration Files

L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D

L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	T	Dichlorodifluo		0.173	0.211	0.209	0.218	0.212	0.216	0.212	0.207	7.34
3)	T	Chloromethane		0.345	0.380	0.354	0.369	0.360	0.366	0.363	0.362	3.08
4)	C	Vinyl chloride	0.275	0.250	0.312	0.299	0.313	0.307	0.309	0.302	0.296	7.49
5)	T	Bromomethane		0.081	0.086	0.085	0.095	0.103	0.110	0.110	0.096	12.89
6)	T	Chloroethane		0.119	0.132	0.122	0.125	0.116	0.110	0.080	0.115	14.63
7)	T	Trichlorofluor		0.258	0.313	0.307	0.325	0.317	0.319	0.315	0.308	7.30
8)	T	Ethyl ether		0.064	0.069	0.071	0.073	0.071	0.070	0.067	0.069	4.25
10)	C	1,1-Dichloroet		0.151	0.182	0.176	0.185	0.180	0.180	0.175	0.175	6.51
11)	T	Carbon disulfide		0.574	0.569	0.545	0.553	0.524	0.534	0.519	0.546	3.91
12)	T	Freon-113		0.149	0.182	0.182	0.190	0.184	0.184	0.178	0.178	7.54
13)	T	Iodomethane		0.141	0.214	0.236	0.269	0.271	0.269	0.247	0.235	19.81
14)	T	Acrolein			0.019	0.018	0.019	0.020	0.019	0.018	0.019	3.05
15)	T	Methylene chlo		0.188	0.190	0.184	0.191	0.189	0.189	0.184	0.188	1.42
16)	T	Isopropyl alcohol			0.006	0.006	0.005	0.005	0.005	0.005	0.005	13.65
17)	T	Acetone		0.146	0.048	0.025	0.024	0.023	0.024	0.024	*L	0.9987
18)	T	trans-1,2-Dich		0.180	0.211	0.199	0.210	0.205	0.209	0.204	0.203	5.29
19)	T	Methyl acetate		0.089	0.047	0.054	0.059	0.058	0.059	0.058	*L	0.9994
20)	T	Methyl tert butyl ether		0.317	0.324	0.327	0.338	0.333	0.329	0.318	0.327	2.38
21)	T	tert-Butyl alc		0.008	0.007	0.006	0.006	0.006	0.007	0.006	0.007	8.47
22)	T	Diisopropyl ether		0.701	0.729	0.728	0.762	0.744	0.736	0.705	0.729	2.92
23)	T	1,1-Dichloroet		0.397	0.460	0.434	0.457	0.449	0.455	0.444	0.442	4.88
24)	T	Halothane		0.134	0.148	0.144	0.153	0.151	0.154	0.150	0.147	4.66
25)	T	Acrylonitrile			0.027	0.033	0.037	0.038	0.038	0.036	0.035	12.68
26)	T	Ethyl tert-but		0.496	0.526	0.528	0.547	0.541	0.531	0.512	0.526	3.27
27)	T	Vinyl acetate			0.297	0.336	0.364	0.365	0.359	0.329	0.342	7.73
28)	T	cis-1,2-Dichlo		0.196	0.219	0.214	0.219	0.217	0.221	0.214	0.214	3.99
29)	T	2,2-Dichloropr		0.283	0.324	0.306	0.320	0.314	0.318	0.309	0.311	4.37
30)	T	Bromochloromet		0.066	0.072	0.075	0.078	0.076	0.074	0.065	0.072	6.89
31)	T	Cyclohexane		0.401	0.489	0.487	0.511	0.497	0.499	0.478	0.480	7.60
32)	C	Chloroform		0.311	0.344	0.333	0.349	0.348	0.349	0.338	0.339	4.02
33)	T	Ethyl acetate			0.087	0.092	0.099	0.100	0.099	0.094	0.095	5.39
34)	T	Carbon tetrachloride		0.231	0.278	0.274	0.293	0.294	0.301	0.296	0.281	8.57
35)	T	Tetrahydrofuran		0.052	0.040	0.032	0.034	0.033	0.033	0.032	0.037	19.48
36)	S	Dibromofluoromethane	0.235	0.233	0.234	0.234	0.238	0.235	0.231	0.231	0.234	1.06
37)	T	1,1,1-Trichlor		0.274	0.324	0.316	0.332	0.332	0.338	0.331	0.321	6.78
38)	T	2-Butanol			0.009	0.006	0.006	0.006	0.006	0.006	0.006	18.52
39)	T	2-Butanone			0.042	0.032	0.037	0.038	0.038	0.037	0.038	7.87

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1739725**
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL14055**
Calibration dates	**: 09/28/17 21:33 09/29/17 01:48**		

Calibration Files
L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D
L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40)	T	1,1-Dichloropr		0.248	0.309	0.301	0.319	0.317	0.320	0.311	0.304	8.33
41)	T	Benzene		0.820	0.874	0.831	0.871	0.860	0.864	0.835	0.851	2.52
42)	T	Tertiary-Amyl Methyl Ether		0.340	0.356	0.348	0.366	0.363	0.356	0.340	0.353	2.96
43)	S	1,2-Dichloroethane-d4	0.234	0.232	0.230	0.231	0.230	0.232	0.228	0.228	0.230	0.88
44)	T	1,2-Dichloroethane		0.197	0.212	0.212	0.221	0.220	0.217	0.210	0.213	3.87
45)	T	Isobutyl alcohol			0.004	0.002	0.002	0.002	0.002	0.002	*L	0.9974
46)	T	2-Methyl-2-but		0.005	0.007	0.007	0.006	0.006	0.006	0.005	0.006	13.30
47)	T	Methyl cyclohe		0.281	0.351	0.365	0.381	0.372	0.372	0.355	0.354	9.59
48)	T	Trichloroethene		0.208	0.223	0.205	0.220	0.217	0.217	0.207	0.214	3.29
49)	T	n-Butanol		0.020	0.024	0.024	0.025	0.025	0.024	0.023	0.024	7.80
50)	T	Dibromomethane		0.062	0.074	0.077	0.082	0.082	0.082	0.079	0.077	9.46
51)	C	1,2-Dichloropr		0.210	0.232	0.233	0.243	0.243	0.243	0.235	0.234	5.04
52)	T	4-penten-2-ol			0.001	0.004	0.004	0.005	0.005	0.005	*L	0.9949
53)	T	2-Chloroethyl			0.049	0.059	0.065	0.062	0.061	0.060	0.059	9.48
54)	T	Bromodichlorom		0.214	0.232	0.229	0.246	0.250	0.251	0.246	0.238	5.70
57)	T	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.61
58)	T	cis-1,3-Dichlo		0.246	0.272	0.287	0.306	0.309	0.309	0.301	0.290	8.18
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.378	1.398	1.401	1.381	1.379	1.377	1.401	1.408	1.391	0.91
61)	C	Toluene		0.714	0.783	0.732	0.764	0.748	0.768	0.738	0.749	3.17
62)	T	4-Methyl-2-pen			0.041	0.048	0.051	0.051	0.051	0.048	0.048	8.17
63)	T	Tetrachloroethene		0.246	0.301	0.284	0.299	0.294	0.302	0.292	0.288	6.81
65)	T	trans-1,3-Dich		0.249	0.277	0.305	0.327	0.332	0.339	0.329	0.308	10.93
66)	T	4-Methyl-2-pen			0.021	0.022	0.020	0.021	0.023	0.022	0.022	4.86
67)	T	Ethyl methacry		0.162	0.166	0.180	0.198	0.199	0.202	0.193	0.186	8.96
68)	T	1,1,2-Trichlor		0.114	0.133	0.135	0.139	0.137	0.138	0.132	0.133	6.41
69)	T	Chlorodibromom		0.152	0.172	0.180	0.194	0.199	0.205	0.201	0.186	10.37
70)	T	1,3-Dichloropr		0.261	0.281	0.291	0.303	0.303	0.307	0.298	0.292	5.55
71)	T	1,2-Dibromoethane		0.109	0.140	0.145	0.152	0.153	0.156	0.152	0.144	11.35
72)	T	2-Hexanone			0.081	0.070	0.077	0.081	0.084	0.082	0.079	6.43
73)	T	Chlorobenzene		0.738	0.807	0.765	0.793	0.790	0.808	0.775	0.783	3.20
74)	C	Ethylbenzene		1.264	1.473	1.402	1.455	1.443	1.484	1.411	1.419	5.26
75)	T	1,1,1,2-Tetrac		0.230	0.241	0.239	0.254	0.258	0.263	0.252	0.248	4.76
76)	T	p/m Xylene		0.492	0.571	0.549	0.568	0.558	0.559	0.510	0.544	5.66
77)	T	o Xylene		0.460	0.514	0.495	0.515	0.500	0.500	0.459	0.492	4.76
78)	T	Styrene		0.680	0.770	0.772	0.812	0.802	0.794	0.719	0.764	6.29
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	T	Bromoform		0.112	0.168	0.176	0.190	0.198	0.204	0.201	0.179	17.96

Initial Calibration Summary
Form 6

Client	**: P. W. Grosser**	**Lab Number**	**: L1739725**
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL14055**
Calibration dates	**: 09/28/17 21:33 09/29/17 01:48**		

Calibration Files
L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D
L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
82)	T	Isopropylbenzene		2.802	3.235	3.139	3.240	3.250	3.363	3.311	3.191	5.81
83)	S	4-Bromofluorobenzene	1.114	1.100	1.112	1.106	1.096	1.120	1.135	1.188	1.121	2.65
84)	T	Bromobenzene		0.534	0.557	0.551	0.571	0.573	0.590	0.589	0.567	3.60
85)	T	n-Propylbenzene		3.205	3.728	3.638	3.758	3.748	3.872	3.806	3.679	6.01
86)	T	1,4-Dichlorobu		0.731	0.716	0.699	0.714	0.719	0.726	0.710	0.716	1.46
87)	T	1,1,2,2-Tetrac		0.328	0.327	0.322	0.332	0.331	0.337	0.330	0.330	1.40
88)	T	4-Ethyltoluene		2.569	2.964	2.892	3.020	3.023	3.131	3.048	2.949	6.21
89)	T	2-Chlorotoluene		1.992	2.186	2.013	2.138	2.149	2.179	2.165	2.117	3.80
90)	T	1,3,5-Trimethy		2.438	2.492	2.457	2.555	2.535	2.589	2.497	2.509	2.15
91)	T	1,2,3-Trichlor		0.340	0.284	0.271	0.259	0.265	0.266	0.254	0.277	10.66
92)	T	trans-1,4-Dich		0.061	0.106	0.092	0.107	0.111	0.113	0.113	0.101	18.84
93)	T	4-Chlorotoluene		1.987	2.098	2.076	2.180	2.189	2.252	2.203	2.141	4.25
94)	T	tert-Butylbenzene		1.863	2.127	2.070	2.155	2.130	2.207	2.159	2.102	5.38
97)	T	1,2,4-Trimethy		2.231	2.468	2.406	2.506	2.508	2.589	2.509	2.460	4.67
98)	T	sec-Butylbenzene		2.595	2.957	2.935	3.051	3.025	3.140	3.059	2.966	5.97
99)	T	p-Isopropyltol		2.133	2.446	2.403	2.531	2.518	2.599	2.523	2.450	6.26
100)	T	1,3-Dichlorobe		1.070	1.116	1.121	1.183	1.188	1.215	1.184	1.154	4.50
101)	T	1,4-Dichlorobe		1.141	1.117	1.099	1.169	1.163	1.191	1.152	1.147	2.73
102)	T	p-Diethylbenzene		1.098	1.318	1.325	1.397	1.406	1.471	1.429	1.349	9.13
103)	T	n-Butylbenzene		1.794	2.011	2.039	2.148	2.162	2.257	2.199	2.087	7.44
104)	T	1,2-Dichlorobe		0.944	0.955	0.926	0.971	0.977	0.990	0.965	0.961	2.24
105)	T	1,2,4,5-Tetram		1.691	1.854	1.830	1.915	1.912	1.985	1.966	1.879	5.31
106)	T	1,2-Dibromo-3-			0.029	0.034	0.037	0.038	0.040	0.039	0.036	11.84
107)	T	1,3,5-Trichlor		0.513	0.588	0.581	0.614	0.606	0.633	0.629	0.595	6.89
108)	T	Hexachlorobuta		0.182	0.207	0.183	0.194	0.193	0.219	0.223	0.200	8.17
109)	T	1,2,4-Trichlor		0.409	0.437	0.440	0.459	0.454	0.471	0.474	0.449	5.04
110)	T	Naphthalene		0.788	0.758	0.717	0.757	0.767	0.775	0.785	0.764	3.13
111)	T	1,2,3-Trichlor		0.305	0.302	0.291	0.309	0.302	0.311	0.314	0.305	2.46

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
Method File : V122_170804A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Aug 05 11:45:14 2017
Response Via : Initial Calibration

Calibration Files
L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.143	0.204	0.217	0.217	0.204	0.212	0.205	0.200	12.89
3)	TP	Chloromethane		0.223	0.252	0.228	0.230	0.221	0.222	0.221	0.228	4.79
4)	TC	Vinyl chloride	0.224	0.256	0.319	0.301	0.309	0.292	0.297	0.287	0.286	10.88
5)	TP	Bromomethane		0.172	0.185	0.162	0.181	0.194	0.205	0.211	0.187	9.40
6)	TP	Chloroethane		0.136	0.181	0.173	0.181	0.174	0.179	0.177	0.172	9.34
7)	TP	Trichlorofluor...		0.302	0.366	0.410	0.427	0.406	0.426	0.416	0.393	11.51
8)	TP	Ethyl ether		0.108	0.121	0.122	0.128	0.123	0.126	0.128	0.122	5.61
10)	TC	1,1-Dichloroet...		0.194	0.249	0.242	0.253	0.246	0.258	0.257	0.243	9.16
11)	TP	Carbon disulfide		0.589	0.703	0.599	0.622	0.598	0.631	0.623	0.624	6.17
12)	TP	Freon-113		0.149	0.198	0.222	0.231	0.220	0.234	0.231	0.212	14.36
13)	TP	Iodomethane			0.273	0.293	0.338	0.340	0.343	0.335	0.320	9.27
14)	TP	Acrolein			0.031	0.035	0.038	0.035	0.036	0.037	0.035#	6.15
15)	TP	Methylene chlo...		0.250	0.274	0.254	0.263	0.254	0.258	0.259	0.259	3.02
17)	TP	Acetone		0.030	0.034	0.031	0.033	0.030	0.030	0.030	0.031#	5.68
18)	TP	trans-1,2-Dich...		0.243	0.296	0.276	0.290	0.280	0.290	0.288	0.280	6.37
19)	TP	Methyl acetate		0.069	0.085	0.084	0.088	0.081	0.081	0.080	0.081#	7.44
21)	TP	Methyl tert-bu...		0.556	0.615	0.606	0.632	0.594	0.599	0.596	0.600	3.89
22)	TP	tert-Butyl alc...		0.005	0.008	0.008	0.009	0.008	0.008	0.008	0.008#	16.77
24)	TP	Diisopropyl ether		0.599	0.684	0.652	0.686	0.652	0.651	0.641	0.652	4.48
25)	TP	1,1-Dichloroet...		0.392	0.484	0.445	0.464	0.443	0.443	0.435	0.444	6.37
26)	TP	Halothane		0.178	0.219	0.216	0.223	0.215	0.223	0.220	0.214	7.51
27)	TP	Acrylonitrile		0.026	0.045	0.049	0.051	0.047	0.047	0.047	0.044#	18.29
28)	TP	Ethyl tert-but...		0.606	0.685	0.664	0.692	0.653	0.655	0.650	0.658	4.28
29)	TP	Vinyl acetate		0.361	0.408	0.411	0.442	0.414	0.413	0.410	0.408	5.85
30)	TP	cis-1,2-Dichlo...		0.272	0.316	0.302	0.313	0.299	0.303	0.301	0.301	4.70
31)	TP	2,2-Dichloropr...		0.374	0.409	0.389	0.397	0.372	0.377	0.369	0.384	3.84
32)	TP	Bromochloromet...		0.102	0.134	0.131	0.136	0.129	0.128	0.128	0.127	9.06
33)	TP	Cyclohexane		0.274	0.364	0.392	0.405	0.383	0.399	0.388	0.372	12.18
34)	TC	Chloroform		0.421	0.501	0.465	0.476	0.454	0.458	0.453	0.461	5.30
35)	TP	Ethyl acetate		0.118	0.125	0.126	0.135	0.122	0.124	0.121	0.124	4.38

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
Method File : V122_170804A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Aug 05 11:45:14 2017
Response Via : Initial Calibration

Calibration Files
L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
36)	TP	Carbon tetrach...	0.225	0.287	0.377	0.393	0.413	0.395	0.413	0.408	0.364	19.09
37)	TP	Tetrahydrofuran		0.057	0.049	0.046	0.047	0.042	0.042	0.041	0.046#	11.88
38)	S	Dibromofluorom...	0.256	0.257	0.257	0.261	0.261	0.259	0.260	0.257	0.258	0.76
39)	TP	1,1,1-Trichlor...		0.378	0.453	0.440	0.460	0.437	0.452	0.448	0.438	6.33
41)	TP	2-Butanone		0.031	0.048	0.049	0.051	0.047	0.047	0.047	0.046#	14.74
42)	TP	1,1-Dichloropr...		0.310	0.368	0.365	0.381	0.364	0.377	0.369	0.362	6.51
44)	TP	Benzene	0.955	0.977	1.141	1.049	1.179	1.120	1.127	1.104	1.082	7.43
45)	TP	tert-Amyl meth...		0.572	0.629	0.612	0.637	0.596	0.602	0.601	0.607	3.56
46)	S	1,2-Dichloroet...	0.236	0.239	0.240	0.239	0.241	0.240	0.238	0.240	0.239	0.72
47)	T	1,2-Dichloroet...		0.264	0.298	0.287	0.295	0.275	0.274	0.272	0.281	4.50
50)	TP	Methyl cyclohe...		0.313	0.399	0.433	0.457	0.437	0.463	0.459	0.423	12.61
51)	TP	Trichloroethene	0.222	0.240	0.301	0.284	0.298	0.288	0.300	0.302	0.279	11.05
53)	TP	Dibromomethane		0.093	0.112	0.106	0.109	0.101	0.103	0.105	0.104	6.00
54)	TC	1,2-Dichloropr...		0.211	0.242	0.234	0.244	0.236	0.236	0.238	0.235	4.61
56)	TP	2-Chloroethyl ...		0.102	0.123	0.122	0.127	0.118	0.120	0.121	0.119	6.73
57)	TP	Bromodichlorom...		0.317	0.356	0.344	0.365	0.354	0.357	0.360	0.350	4.62
60)	TP	1,4-Dioxane		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000#	10.48
61)	TP	cis-1,3-Dichlo...		0.366	0.411	0.398	0.421	0.407	0.410	0.411	0.403	4.45
62)	I	Chlorobenzene-d5	----------ISTD----------									
63)	S	Toluene-d8	1.207	1.228	1.224	1.220	1.195	1.180	1.185	1.178	1.202	1.70
64)	TC	Toluene		0.757	0.875	0.815	0.834	0.791	0.808	0.809	0.813	4.49
65)	TP	4-Methyl-2-pen...			0.057	0.060	0.062	0.058	0.060	0.060	0.059#	3.22
66)	TP	Tetrachloroethene		0.351	0.439	0.426	0.436	0.415	0.435	0.441	0.420	7.61
68)	TP	trans-1,3-Dich...		0.358	0.411	0.412	0.423	0.401	0.403	0.404	0.402	5.15
70)	TP	Ethyl methacry...		0.249	0.271	0.292	0.307	0.290	0.296	0.298	0.286	6.92
71)	TP	1,1,2-Trichlor...		0.179	0.200	0.196	0.201	0.188	0.189	0.191	0.192	4.06
72)	TP	Chlorodibromom...		0.272	0.297	0.306	0.318	0.306	0.309	0.315	0.303	5.13
73)	TP	1,3-Dichloropr...		0.380	0.414	0.399	0.404	0.377	0.378	0.378	0.390	3.92
74)	TP	1,2-Dibromoethane		0.222	0.238	0.238	0.243	0.252	0.255	0.257	0.244	5.01
76)	TP	2-Hexanone		0.068	0.086	0.091	0.096	0.087	0.088	0.089	0.086#	10.26
77)	TP	Chlorobenzene		0.902	1.009	0.947	0.966	0.923	0.935	0.934	0.945	3.63

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
Method File : V122_170804A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Aug 05 11:45:14 2017
Response Via : Initial Calibration

Calibration Files
L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
78)	TC	Ethylbenzene		1.480	1.712	1.626	1.651	1.579	1.584	1.547	1.597	4.70
79)	TP	1,1,1,2-Tetrac...		0.298	0.347	0.336	0.345	0.327	0.329	0.327	0.330	4.93
80)	TP	p/m Xylene		0.574	0.690	0.648	0.666	0.633	0.640	0.626	0.640	5.65
81)	TP	o Xylene		0.527	0.612	0.595	0.614	0.587	0.593	0.581	0.587	4.97
82)	TP	Styrene		0.829	0.952	0.959	1.016	0.978	0.967	0.929	0.947	6.17
83)	I	1,4-Dichlorobenzene-d4	ISTD									
84)	TP	Bromoform		0.333	0.370	0.378	0.396	0.393	0.406	0.409	0.384	6.87
86)	TP	Isopropylbenzene		2.911	3.408	3.173	3.180	3.079	3.129	2.987	3.124	5.10
87)	S	4-Bromofluorob...	0.889	0.878	0.893	0.864	0.844	0.853	0.856	0.834	0.864	2.45
88)	TP	Bromobenzene		0.744	0.808	0.749	0.752	0.736	0.752	0.751	0.756	3.13
89)	TP	n-Propylbenzene		3.213	3.867	3.643	3.685	3.556	3.570	3.359	3.556	6.05
90)	TP	1,4-Dichlorobu...		0.613	0.687	0.651	0.647	0.615	0.612	0.598	0.632	4.92
91)	TP	1,1,2,2-Tetrac...		0.471	0.493	0.478	0.480	0.446	0.447	0.431	0.464	4.85
92)	TP	4-Ethyltoluene		2.639	3.185	2.965	2.965	2.797	2.823	2.683	2.865	6.58
93)	TP	2-Chlorotoluene		2.192	2.568	2.345	2.345	2.229	2.232	2.170	2.297	6.00
94)	TP	1,3,5-Trimethy...		2.225	2.667	2.504	2.528	2.422	2.441	2.344	2.447	5.76
95)	TP	1,2,3-Trichlor...		0.363	0.408	0.381	0.385	0.359	0.358	0.351	0.372	5.41
96)	TP	trans-1,4-Dich...		0.115	0.120	0.121	0.124	0.116	0.112	0.110	0.117	4.25
97)	TP	4-Chlorotoluene		2.044	2.294	2.120	2.127	2.047	2.042	1.974	2.093	4.92
98)	TP	tert-Butylbenzene		2.049	2.437	2.270	2.303	2.218	2.250	2.176	2.243	5.30
101)	TP	1,2,4-Trimethy...		2.233	2.686	2.474	2.520	2.437	2.445	2.355	2.450	5.71
102)	TP	sec-Butylbenzene		2.864	3.427	3.285	3.323	3.156	3.184	2.992	3.176	6.13
103)	TP	p-Isopropyltol...		2.398	2.970	2.830	2.889	2.771	2.789	2.647	2.756	6.79
104)	TP	1,3-Dichlorobe...		1.359	1.591	1.468	1.490	1.446	1.459	1.434	1.464	4.76
105)	TP	1,4-Dichlorobe...		1.363	1.590	1.453	1.447	1.416	1.441	1.414	1.446	4.86
106)	TP	p-Diethylbenzene		1.352	1.647	1.625	1.654	1.625	1.667	1.620	1.599	6.88
107)	TP	n-Butylbenzene		2.072	2.530	2.480	2.548	2.427	2.463	2.338	2.408	6.80
108)	TP	1,2-Dichlorobe...		1.266	1.387	1.303	1.335	1.296	1.314	1.305	1.315	2.88
109)	TP	1,2,4,5-Tetram...		2.035	2.467	2.365	2.458	2.409	2.453	2.347	2.362	6.42
110)	TP	1,2-Dibromo-3-...		0.047	0.078	0.079	0.084	0.081	0.083	0.085	0.077	17.51
111)	TP	1,3,5-Trichlor...		0.939	1.141	1.091	1.135	1.118	1.148	1.137	1.101	6.71

Method Path : I:\VOLATILES\VOA122\2017\170804A\
Method File : V122_170804A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Aug 05 11:45:14 2017
Response Via : Initial Calibration

Calibration Files
L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

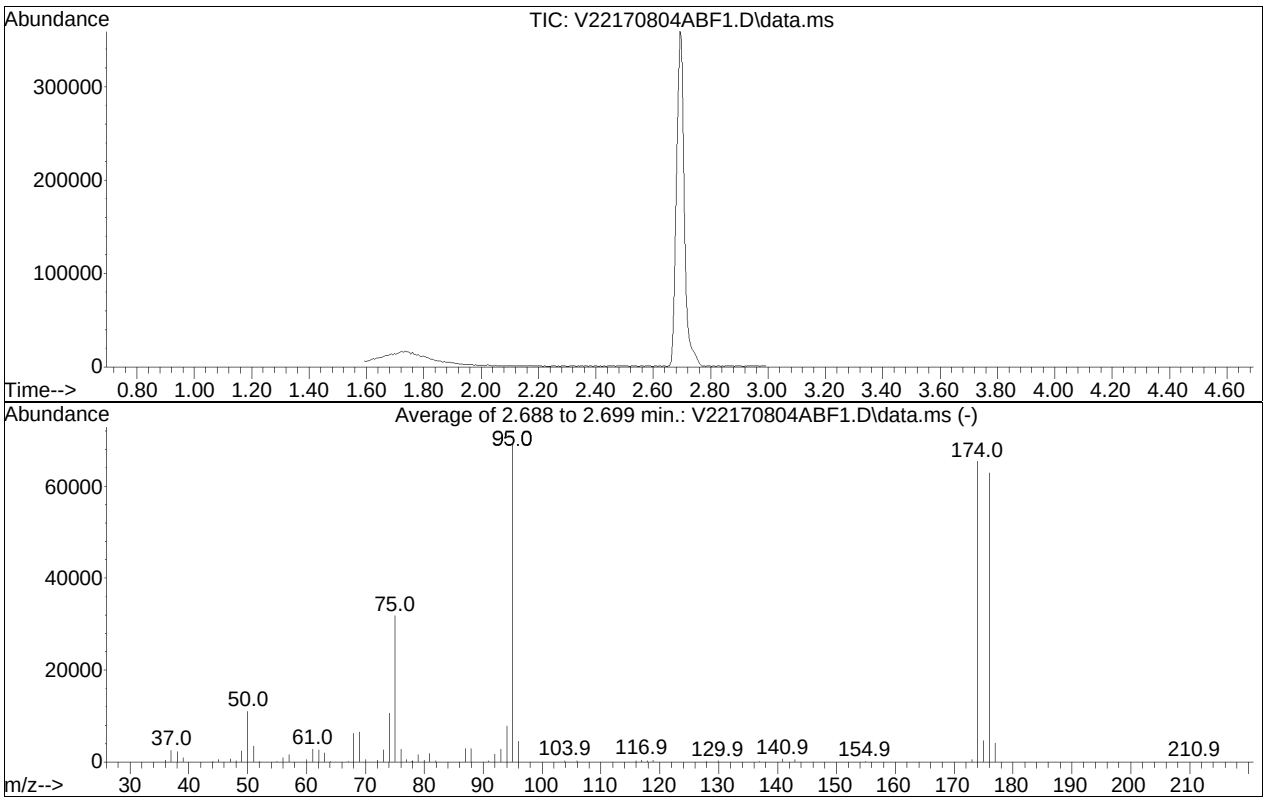
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
112) TP	Hexachlorobuta...	0.368	0.466	0.498	0.518	0.512	0.543	0.545	0.493	12.42	
113) TP	1,2,4-Trichlor...	0.844	0.981	0.969	0.984	0.981	1.012	1.007	0.968	5.87	
114) TP	Naphthalene	1.580	1.730	1.728	1.779	1.704	1.736	1.716	1.710	3.63	
115) TP	1,2,3-Trichlor...	0.808	0.893	0.870	0.887	0.869	0.892	0.884	0.872	3.39	

(#) = Out of Range

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804ABF1.D
Acq On : 04 Aug 2017 19:28
Operator : VOA122:MAB
Sample : WG1029271-1
Misc : WG1029271,ICAL
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Aug 05 11:45:14 2017



AutoFind: Scans 210, 211, 212; Background Corrected with Scan 201

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	10999	PASS
75	95	30	60	45.8	31813	PASS
95	95	100	100	100.0	69472	PASS
96	95	5	9	6.5	4531	PASS
173	174	0.00	2	0.9	565	PASS
174	95	50	100	94.1	65379	PASS
175	174	5	9	7.2	4693	PASS
176	174	95	101	96.3	62952	PASS
177	176	5	9	6.6	4161	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A03.D
Acq On : 04 Aug 2017 20:41
Operator : VOA122:MAB
Sample : ISTDL11
Misc : WG1029271,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:25:16 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	172318	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 102.42%			
62) Chlorobenzene-d5	9.658	117	143376	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 102.42%			
83) 1,4-Dichlorobenzene-d4	12.349	152	72629	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 96.02%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	44090	9.819	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.19%			
46) 1,2-Dichloroethane-d4	5.813	65	40623	9.845	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.45%			
63) Toluene-d8	7.807	98	172990	9.886	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.86%			
87) 4-Bromofluorobenzene	11.143	95	64594	10.289	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.89%			
Target Compounds						Qvalue
4) Vinyl chloride	1.896	62	771	0.149	ug/L	93
36) Carbon tetrachloride	5.239	117	777	0.115	ug/L #	72
44) Benzene	5.673	78	3290	0.182	ug/L #	86
51) Trichloroethene	6.264	95	766	0.157	ug/L	88

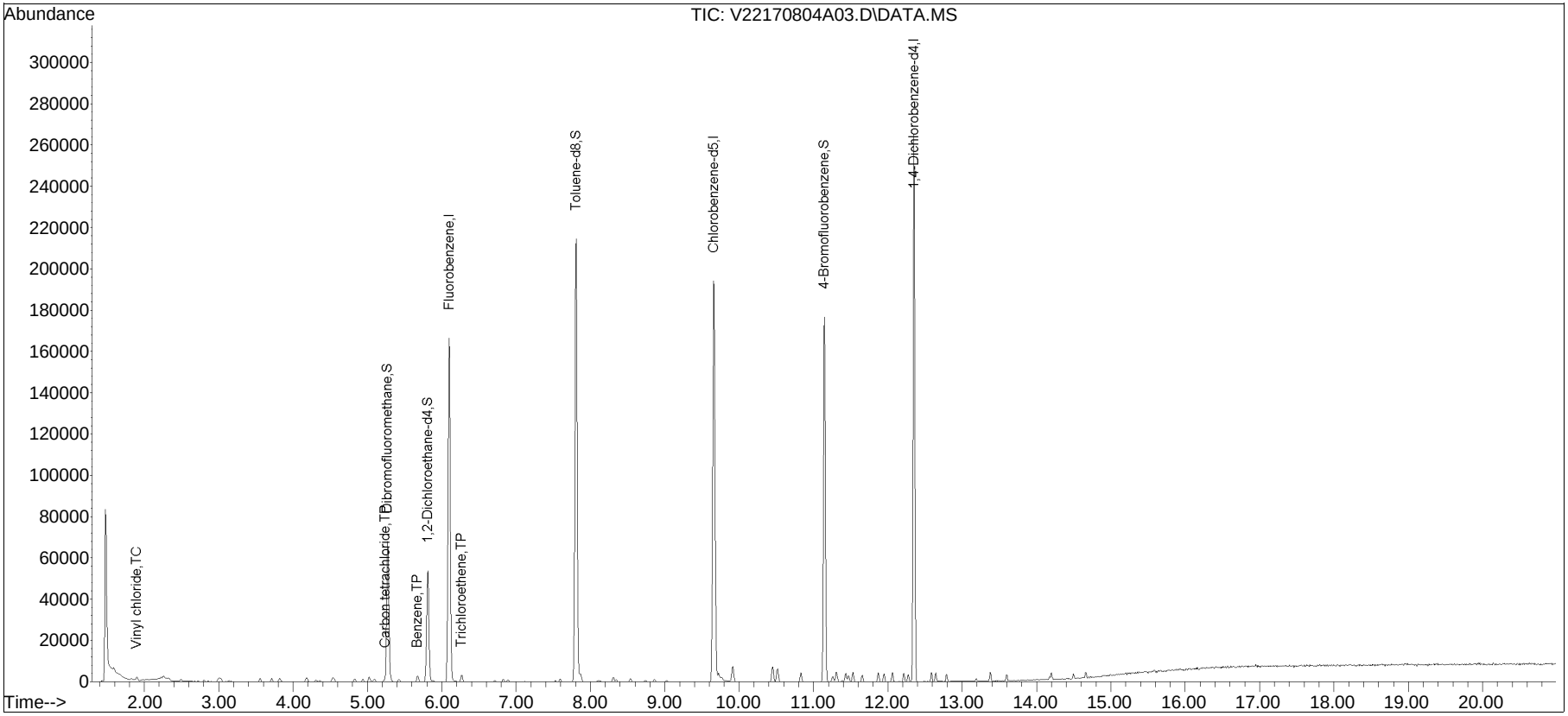
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A03.D
Acq On : 04 Aug 2017 20:41
Operator : VOA122:MAB
Sample : ISTDL11
Misc : WG1029271,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:25:16 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A03.D	Operator	: VOA122:MAB
Date Inj'd	: 8/4/2017 20:41	Instrument	: VOA122
Sample	: ISTDL11	Quant Date	: 8/5/2017 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A04.D
Acq On : 04 Aug 2017 21:08
Operator : VOA122:MAB
Sample : ISTDL1
Misc : WG1029271,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	165877	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 98.59%			
62) Chlorobenzene-d5	9.658	117	137017	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 97.87%			
83) 1,4-Dichlorobenzene-d4	12.350	152	71719	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 94.81%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	42648	9.867	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.67%			
46) 1,2-Dichloroethane-d4	5.813	65	39693	9.993	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.93%			
63) Toluene-d8	7.807	98	168210	10.059	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.59%			
87) 4-Bromofluorobenzene	11.144	95	62946	10.154	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.628	85	1187	0.330	ug/L #	84
3) Chloromethane	1.824	50	1853	0.490	ug/L	91
4) Vinyl chloride	1.896	62	2124	0.426	ug/L	84
5) Bromomethane	2.227	94	1425	0.531	ug/L	97
6) Chloroethane	2.350	64	1129	0.393	ug/L	99
7) Trichlorofluoromethane	2.495	101	2501	0.367	ug/L	99
8) Ethyl ether	2.804	74	896	11.591	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	1611	0.401	ug/L	91
11) Carbon disulfide	3.021	76	4881	0.491	ug/L	97
12) Freon-113	3.042	101	1234	0.335	ug/L	93
13) Iodomethane	3.135	142	1676	0.345	ug/L #	84
14) Acrolein	3.331	56	97	0.167	ug/L #	62
15) Methylene chloride	3.558	84	2070	0.490	ug/L	97
17) Acetone	3.619	43	245	0.479	ug/L #	46
18) trans-1,2-Dichloroethene	3.712	96	2015	0.440	ug/L	98
19) Methyl acetate	3.733	43	576	0.412	ug/L #	50
21) Methyl tert-butyl ether	3.826	73	4615	0.459	ug/L	96
22) tert-Butyl alcohol	3.898	59	208	1.483	ug/L #	59
24) Diisopropyl ether	4.177	45	4972	0.460	ug/L	97
25) 1,1-Dichloroethane	4.311	63	3249	0.440	ug/L	93
26) Halothane	4.362	117	1475	0.412	ug/L #	76

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A04.D
Acq On : 04 Aug 2017 21:08
Operator : VOA122:MAB
Sample : ISTDL1
Misc : WG1029271,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	219	0.272	ug/L	#	43
28) Ethyl tert-butyl ether	4.538	59	5024	0.456	ug/L		98
29) Vinyl acetate	4.548	43	2995	0.439	ug/L	#	81
30) cis-1,2-Dichloroethene	4.827	96	2257	0.450	ug/L		94
31) 2,2-Dichloropropane	4.940	77	3104	0.481	ug/L		100
32) Bromochloromethane	5.023	128	842	0.389	ug/L	#	79
33) Cyclohexane	5.023	56	2270	0.349	ug/L		99
34) Chloroform	5.095	83	3490	0.453	ug/L	#	96
35) Ethyl acetate	5.219	43	976	0.467	ug/L	#	65
36) Carbon tetrachloride	5.229	117	2380	0.365	ug/L	#	92
37) Tetrahydrofuran	5.270	42	472	0.625	ug/L	#	77
39) 1,1,1-Trichloroethane	5.301	97	3133	0.429	ug/L	#	97
41) 2-Butanone	5.404	43	256	0.317	ug/L	#	22
42) 1,1-Dichloropropene	5.425	75	2574	0.425	ug/L		93
44) Benzene	5.673	78	8107	0.466	ug/L		99
45) tert-Amyl methyl ether	5.798	73	4746	0.468	ug/L		96
47) 1,2-Dichloroethane	5.883	62	2193	0.461	ug/L	#	93
50) Methyl cyclohexane	6.265	83	2595	0.361	ug/L		99
51) Trichloroethene	6.272	95	1991	0.423	ug/L		98
53) Dibromomethane	6.716	93	770	0.439	ug/L		86
54) 1,2-Dichloropropane	6.825	63	1754	0.451	ug/L		96
56) 2-Chloroethyl vinyl ether	7.529	63	847	0.418	ug/L	#	89
57) Bromodichloromethane	6.887	83	2628	0.461	ug/L	#	92
60) 1,4-Dioxane	7.113	88	572	81.049	ug/L	#	80
61) cis-1,3-Dichloropropene	7.592	75	3033	0.460	ug/L		99
64) Toluene	7.869	92	5184	0.464	ug/L		99
65) 4-Methyl-2-pentanone	8.320	58	224	0.272	ug/L	#	15
66) Tetrachloroethene	8.306	166	2403	0.412	ug/L		98
68) trans-1,3-Dichloropropene	8.348	75	2452	0.434	ug/L		98
70) Ethyl methacrylate	8.549	69	1704	0.425	ug/L		91
71) 1,1,2-Trichloroethane	8.528	83	1224	0.455	ug/L		98
72) Chlorodibromomethane	8.743	129	1861	0.444	ug/L	#	94
73) 1,3-Dichloropropane	8.868	76	2601	0.476	ug/L		96
74) 1,2-Dibromoethane	9.027	107	1523	0.466	ug/L		97
76) 2-Hexanone	9.328	43	463	0.371	ug/L	#	48
77) Chlorobenzene	9.680	112	6178	0.476	ug/L	#	85
78) Ethylbenzene	9.723	91	10140	0.455	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.766	131	2040	0.444	ug/L	#	63
80) p/m Xylene	9.917	106	7870	0.887	ug/L		100
81) o Xylene	10.455	106	7217	0.885	ug/L		95

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A04.D
Acq On : 04 Aug 2017 21:08
Operator : VOA122:MAB
Sample : ISTDL1
Misc : WG1029271,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.519	104	11360	0.864	ug/L		99
84) Bromoform	10.530	173	1194	0.441	ug/L		93
86) Isopropylbenzene	10.832	105	10439	0.459	ug/L		100
88) Bromobenzene	11.262	156	2668	0.497	ug/L		99
89) n-Propylbenzene	11.305	91	11523	0.441	ug/L		98
90) 1,4-Dichlorobutane	11.327	55	2197	0.471	ug/L		95
91) 1,1,2,2-Tetrachloroethane	11.380	83	1689	0.493	ug/L	#	93
92) 4-Ethyltoluene	11.434	105	9463	0.445	ug/L		99
93) 2-Chlorotoluene	11.467	91	7859	0.467	ug/L		99
94) 1,3,5-Trimethylbenzene	11.531	105	7977	0.444	ug/L		99
95) 1,2,3-Trichloropropane	11.531	75	1301	0.476	ug/L		91
96) trans-1,4-Dichloro-2-b...	11.585	53	413	0.476	ug/L	#	74
97) 4-Chlorotoluene	11.650	91	7330	0.482	ug/L		96
98) tert-Butylbenzene	11.870	119	7347	0.451	ug/L		97
101) 1,2,4-Trimethylbenzene	11.944	105	8009	0.451	ug/L		99
102) sec-Butylbenzene	12.062	105	10271	0.436	ug/L		100
103) p-Isopropyltoluene	12.217	119	8599	0.424	ug/L		100
104) 1,3-Dichlorobenzene	12.276	146	4874	0.463	ug/L		98
105) 1,4-Dichlorobenzene	12.372	146	4887M3	0.469	ug/L		
106) p-Diethylbenzene	12.586	119	4849	0.416	ug/L		97
107) n-Butylbenzene	12.645	91	7429	0.418	ug/L		97
108) 1,2-Dichlorobenzene	12.792	146	4539	0.486	ug/L		95
109) 1,2,4,5-Tetramethylben...	13.382	119	7296	0.430	ug/L		98
110) 1,2-Dibromo-3-chloropr...	13.567	155	168	0.297	ug/L		90
111) 1,3,5-Trichlorobenzene	13.596	180	3368	0.430	ug/L		99
112) Hexachlorobutadiene	14.172	225	1321	0.370	ug/L		98
113) 1,2,4-Trichlorobenzene	14.201	180	3027	0.436	ug/L		95
114) Naphthalene	14.496	128	5666	0.457	ug/L		100
115) 1,2,3-Trichlorobenzene	14.659	180	2899	0.465	ug/L		96

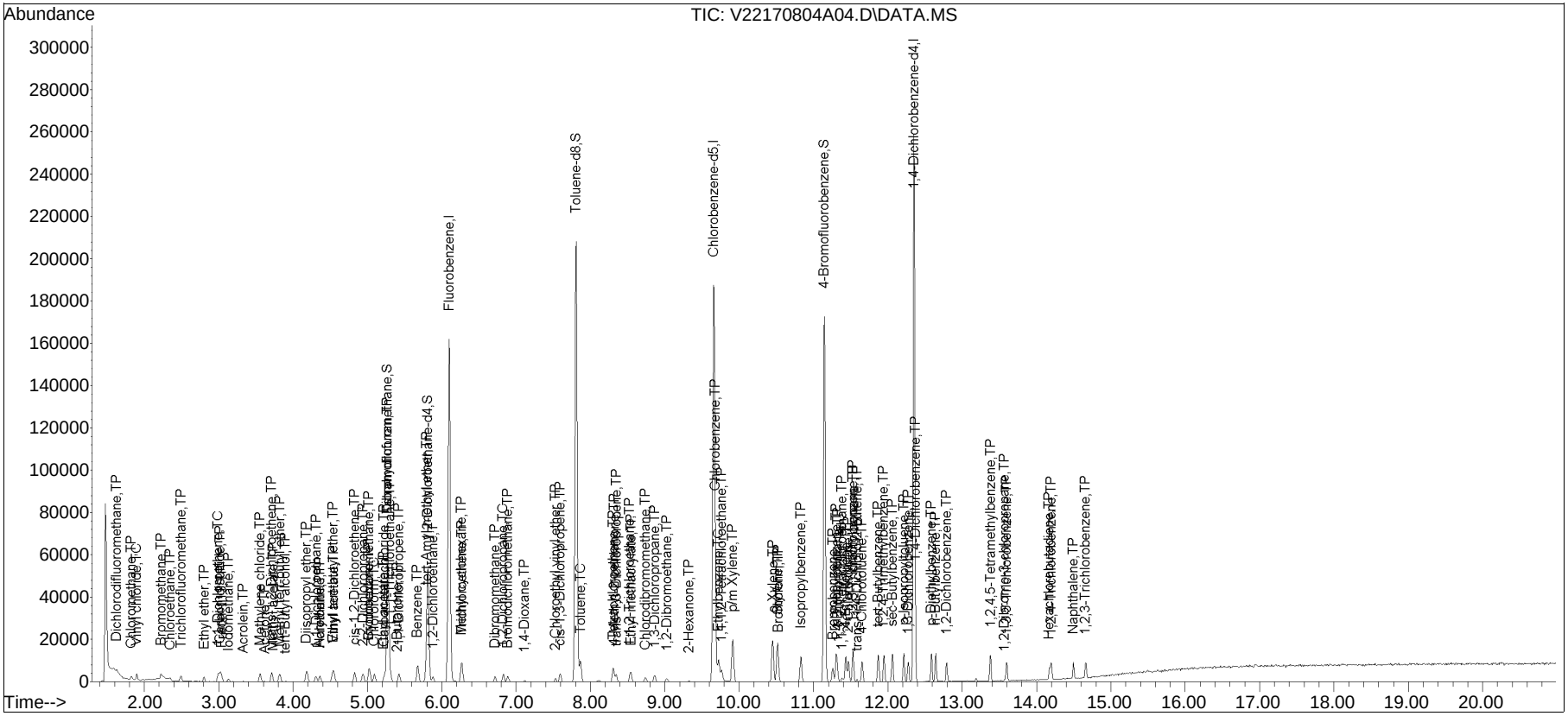
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A04.D
Acq On : 04 Aug 2017 21:08
Operator : VOA122:MAB
Sample : ISTDL1
Misc : WG1029271,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

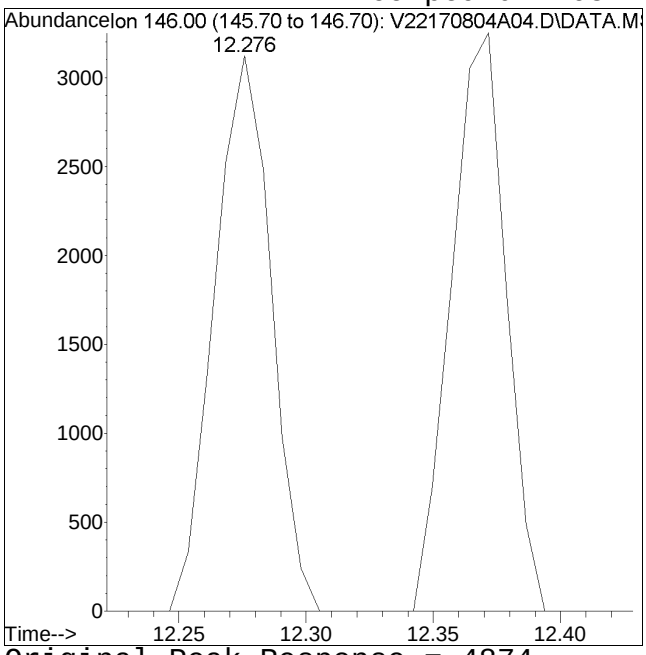
Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•

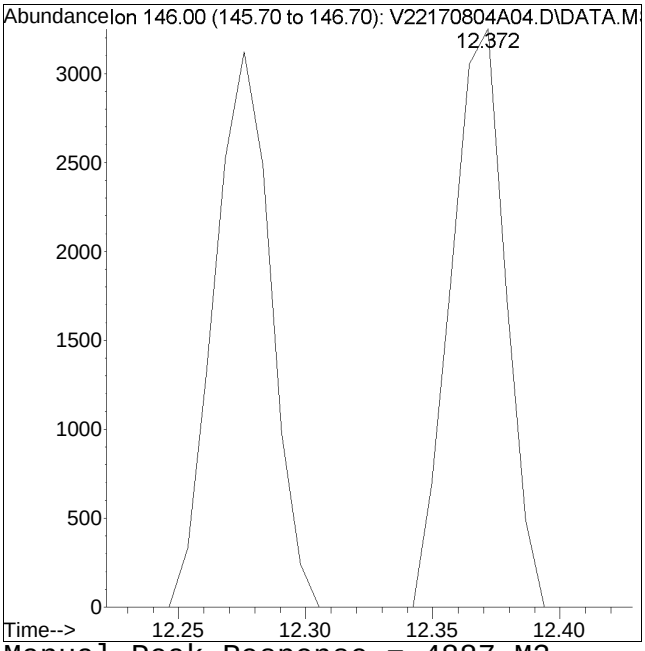


Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A04.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 21:08 Instrument : VOA122
Sample : ISTDL1 Quant Date : 8/5/2017 11:25 am

Compound #105: 1,4-Dichlorobenzene





Original Peak Response = 4874 Manual Peak Response = 4887 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A07.D
Acq On : 04 Aug 2017 22:31
Operator : VOA122:MAB
Sample : ISTDL2
Misc : WG1029271,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	161032	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 95.72%			
62) Chlorobenzene-d5	9.658	117	133803	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 95.58%			
83) 1,4-Dichlorobenzene-d4	12.350	152	69085	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 91.33%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	41381	9.861	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.61%			
46) 1,2-Dichloroethane-d4	5.813	65	38577	10.004	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
63) Toluene-d8	7.807	98	163839	10.033	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.33%			
87) 4-Bromofluorobenzene	11.144	95	61659	10.325	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.25%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	6583	1.888	ug/L	95
3) Chloromethane	1.824	50	8103	2.205	ug/L	99
4) Vinyl chloride	1.896	62	10270	2.122	ug/L	99
5) Bromomethane	2.227	94	5952	2.286	ug/L	96
6) Chloroethane	2.350	64	5838	2.091	ug/L	94
7) Trichlorofluoromethane	2.495	101	11801	1.786	ug/L	97
8) Ethyl ether	2.804	74	3886	51.785	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	8024	2.060	ug/L	99
11) Carbon disulfide	3.021	76	22652	2.347	ug/L	99
12) Freon-113	3.042	101	6390	1.786	ug/L	96
13) Iodomethane	3.134	142	8796	1.865	ug/L	100
14) Acrolein	3.320	56	1011	1.795	ug/L	97
15) Methylene chloride	3.558	84	8811	2.150	ug/L	99
17) Acetone	3.609	43	1103	2.223	ug/L #	81
18) trans-1,2-Dichloroethene	3.712	96	9541	2.147	ug/L	98
19) Methyl acetate	3.733	43	2750	2.026	ug/L #	92
21) Methyl tert-butyl ether	3.815	73	19821	2.031	ug/L	99
22) tert-Butyl alcohol	3.898	59	1220	8.957	ug/L #	80
24) Diisopropyl ether	4.187	45	22043	2.099	ug/L	100
25) 1,1-Dichloroethane	4.311	63	15576	2.172	ug/L	99
26) Halothane	4.362	117	7064	2.032	ug/L	100

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A07.D
Acq On : 04 Aug 2017 22:31
Operator : VOA122:MAB
Sample : ISTDL2
Misc : WG1029271,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	1448	1.852	ug/L		98
28) Ethyl tert-butyl ether	4.538	59	22069	2.063	ug/L		98
29) Vinyl acetate	4.558	43	13126	1.982	ug/L		97
30) cis-1,2-Dichloroethene	4.827	96	10171	2.091	ug/L		98
31) 2,2-Dichloropropane	4.940	77	13159	2.102	ug/L		99
32) Bromochloromethane	5.023	128	4303	2.046	ug/L		98
33) Cyclohexane	5.033	56	11722	1.858	ug/L		99
34) Chloroform	5.095	83	16134	2.156	ug/L		99
35) Ethyl acetate	5.219	43	4023	1.981	ug/L	#	86
36) Carbon tetrachloride	5.239	117	12150	1.921	ug/L		97
37) Tetrahydrofuran	5.260	42	1567	2.136	ug/L		94
39) 1,1,1-Trichloroethane	5.301	97	14584	2.058	ug/L		99
41) 2-Butanone	5.415	43	1539	1.961	ug/L		89
42) 1,1-Dichloropropene	5.425	75	11850	2.016	ug/L		99
44) Benzene	5.673	78	36748	2.176	ug/L		99
45) tert-Amyl methyl ether	5.790	73	20271	2.058	ug/L		100
47) 1,2-Dichloroethane	5.883	62	9597	2.077	ug/L		98
50) Methyl cyclohexane	6.265	83	12845	1.842	ug/L		98
51) Trichloroethene	6.272	95	9700	2.124	ug/L		98
53) Dibromomethane	6.716	93	3612	2.122	ug/L		96
54) 1,2-Dichloropropane	6.833	63	7798	2.066	ug/L		99
56) 2-Chloroethyl vinyl ether	7.529	63	3970	2.018	ug/L		99
57) Bromodichloromethane	6.887	83	11456	2.069	ug/L		99
60) 1,4-Dioxane	7.113	88	2866	418.316	ug/L		98
61) cis-1,3-Dichloropropene	7.592	75	13223	2.064	ug/L		100
64) Toluene	7.862	92	23413	2.147	ug/L		99
65) 4-Methyl-2-pentanone	8.313	58	1512	1.883	ug/L		96
66) Tetrachloroethene	8.306	166	11752	2.062	ug/L		99
68) trans-1,3-Dichloropropene	8.348	75	11003	1.995	ug/L		100
70) Ethyl methacrylate	8.549	69	7252	1.854	ug/L		94
71) 1,1,2-Trichloroethane	8.535	83	5363	2.041	ug/L		99
72) Chlorodibromomethane	8.743	129	7937	1.939	ug/L		98
73) 1,3-Dichloropropane	8.861	76	11077	2.074	ug/L		98
74) 1,2-Dibromoethane	9.027	107	6357	1.992	ug/L		95
76) 2-Hexanone	9.328	43	2295	1.884	ug/L		96
77) Chlorobenzene	9.680	112	26993	2.131	ug/L		96
78) Ethylbenzene	9.723	91	45827	2.106	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.766	131	9275	2.065	ug/L		90
80) p/m Xylene	9.917	106	36934	4.261	ug/L		98
81) o Xylene	10.455	106	32751	4.115	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A07.D
Acq On : 04 Aug 2017 22:31
Operator : VOA122:MAB
Sample : ISTDL2
Misc : WG1029271,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	50926	3.968	ug/L	99
84) Bromoform	10.530	173	5119	1.962	ug/L	98
86) Isopropylbenzene	10.831	105	47085	2.148	ug/L	99
88) Bromobenzene	11.262	156	11163	2.157	ug/L	99
89) n-Propylbenzene	11.305	91	53432	2.123	ug/L	99
90) 1,4-Dichlorobutane	11.327	55	9491	2.111	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.380	83	6813	2.063	ug/L	98
92) 4-Ethyltoluene	11.434	105	44009	2.149	ug/L	99
93) 2-Chlorotoluene	11.467	91	35480	2.190	ug/L	98
94) 1,3,5-Trimethylbenzene	11.531	105	36850	2.130	ug/L	99
95) 1,2,3-Trichloropropane	11.531	75	5640	2.142	ug/L	96
96) trans-1,4-Dichloro-2-b...	11.585	53	1659	1.984	ug/L	98
97) 4-Chlorotoluene	11.660	91	31695	2.164	ug/L	99
98) tert-Butylbenzene	11.870	119	33666	2.147	ug/L	99
101) 1,2,4-Trimethylbenzene	11.951	105	37115	2.172	ug/L	98
102) sec-Butylbenzene	12.062	105	47344	2.086	ug/L	99
103) p-Isopropyltoluene	12.217	119	41033	2.099	ug/L	99
104) 1,3-Dichlorobenzene	12.276	146	21984	2.167	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	21969	2.189	ug/L	99
106) p-Diethylbenzene	12.586	119	22758	2.027	ug/L	99
107) n-Butylbenzene	12.645	91	34958	2.040	ug/L	99
108) 1,2-Dichlorobenzene	12.792	146	19165	2.128	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.375	119	34093	2.086	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.567	155	1071	1.968	ug/L	97
111) 1,3,5-Trichlorobenzene	13.596	180	15766	2.092	ug/L	99
112) Hexachlorobutadiene	14.172	225	6441	1.873	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	13553	2.025	ug/L	98
114) Naphthalene	14.496	128	23910	2.003	ug/L	100
115) 1,2,3-Trichlorobenzene	14.659	180	12332	2.052	ug/L	99

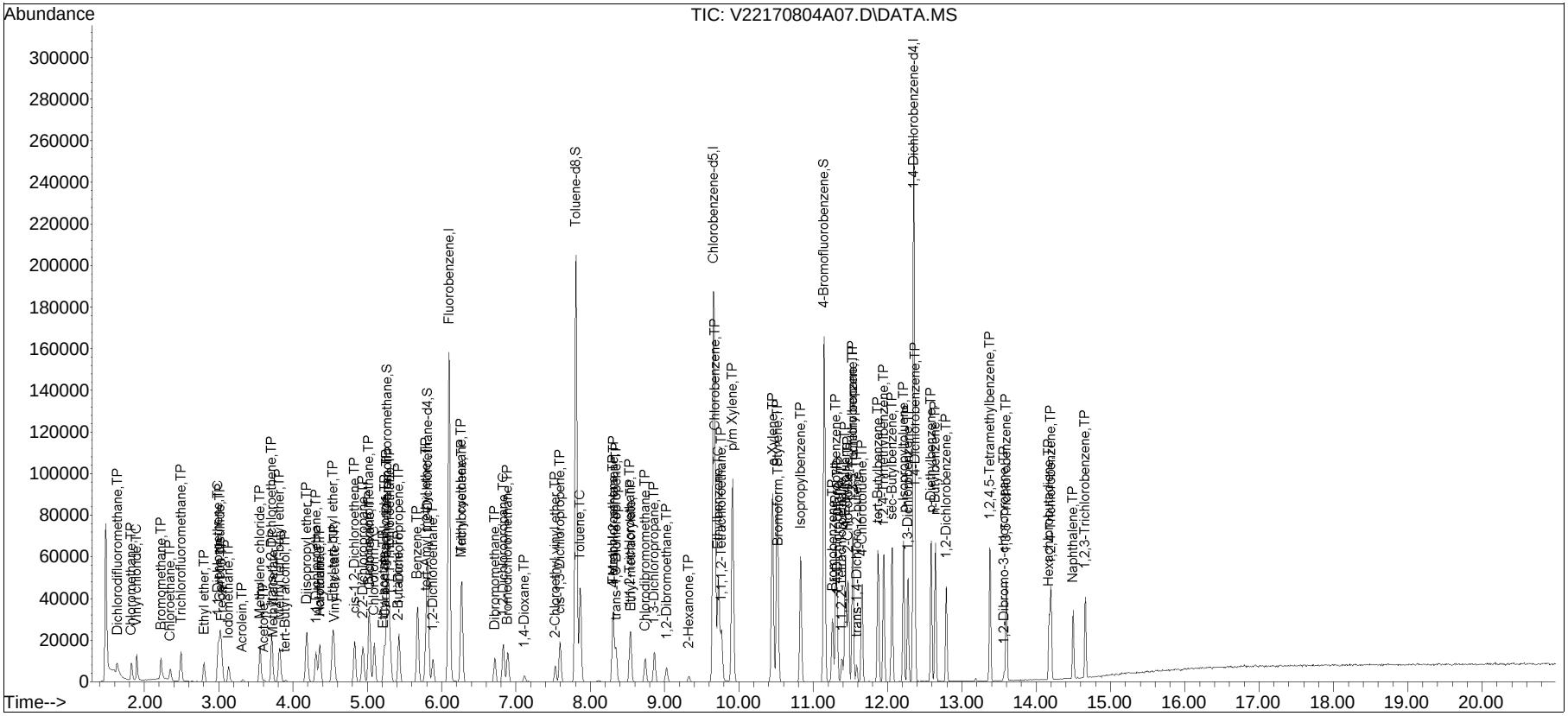
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A07.D
Acq On : 04 Aug 2017 22:31
Operator : VOA122:MAB
Sample : ISTDL2
Misc : WG1029271,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A07.D	Operator	: VOA122:MAB
Date Inj'd	: 8/4/2017 22:31	Instrument	: VOA122
Sample	: ISTDL2	Quant Date	: 8/5/2017 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A08.D
Acq On : 04 Aug 2017 22:58
Operator : VOA122:MAB
Sample : ISTDL3
Misc : WG1029271,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	168241	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 100.00%			
62) Chlorobenzene-d5	9.658	117	139995	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.349	152	75642	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	43841	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
46) 1,2-Dichloroethane-d4	5.813	65	40288	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
63) Toluene-d8	7.807	98	170862	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
87) 4-Bromofluorobenzene	11.144	95	65385	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.628	85	36436	10.000	ug/L	100
3) Chloromethane	1.824	50	38392	10.000	ug/L	100
4) Vinyl chloride	1.896	62	50562	10.000	ug/L	100
5) Bromomethane	2.226	94	27197	10.000	ug/L	100
6) Chloroethane	2.350	64	29173	10.000	ug/L	100
7) Trichlorofluoromethane	2.495	101	69037	10.000	ug/L	100
8) Ethyl ether	2.804	74	20485	261.288	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	40697	10.000	ug/L	100
11) Carbon disulfide	3.021	76	100845	10.000	ug/L	100
12) Freon-113	3.042	101	37378	10.000	ug/L	100
13) Iodomethane	3.134	142	49278	10.000	ug/L	100
14) Acrolein	3.330	56	5885	10.000	ug/L	100
15) Methylene chloride	3.557	84	42815	10.000	ug/L	100
17) Acetone	3.609	43	5183	10.000	ug/L	100
18) trans-1,2-Dichloroethene	3.712	96	46431	10.000	ug/L	100
19) Methyl acetate	3.733	43	14184	10.000	ug/L	100
21) Methyl tert-butyl ether	3.815	73	101959	10.000	ug/L	100
22) tert-Butyl alcohol	3.898	59	7115	50.000	ug/L	100
24) Diisopropyl ether	4.187	45	109742	10.000	ug/L	100
25) 1,1-Dichloroethane	4.311	63	74906	10.000	ug/L	100
26) Halothane	4.362	117	36317	10.000	ug/L	100

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A08.D
Acq On : 04 Aug 2017 22:58
Operator : VOA122:MAB
Sample : ISTDL3
Misc : WG1029271,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	8167	10.000	ug/L	100
28) Ethyl tert-butyl ether	4.538	59	111778	10.000	ug/L	100
29) Vinyl acetate	4.548	43	69193	10.000	ug/L	100
30) cis-1,2-Dichloroethene	4.827	96	50829	10.000	ug/L	100
31) 2,2-Dichloropropane	4.940	77	65402	10.000	ug/L	100
32) Bromochloromethane	5.023	128	21971	10.000	ug/L	100
33) Cyclohexane	5.033	56	65924	10.000	ug/L	100
34) Chloroform	5.095	83	78201	10.000	ug/L	100
35) Ethyl acetate	5.219	43	21212	10.000	ug/L	100
36) Carbon tetrachloride	5.239	117	66068	10.000	ug/L	100
37) Tetrahydrofuran	5.260	42	7665	10.000	ug/L	100
39) 1,1,1-Trichloroethane	5.301	97	74042	10.000	ug/L	100
41) 2-Butanone	5.404	43	8200	10.000	ug/L	100
42) 1,1-Dichloropropene	5.425	75	61400	10.000	ug/L	100
44) Benzene	5.681	78	176461	10.000	ug/L	100
45) tert-Amyl methyl ether	5.790	73	102924	10.000	ug/L	100
47) 1,2-Dichloroethane	5.883	62	48279	10.000	ug/L	100
50) Methyl cyclohexane	6.264	83	72856	10.000	ug/L	100
51) Trichloroethene	6.272	95	47719	10.000	ug/L	100
53) Dibromomethane	6.716	93	17785	10.000	ug/L	100
54) 1,2-Dichloropropane	6.833	63	39428	10.000	ug/L	100
56) 2-Chloroethyl vinyl ether	7.529	63	20551	10.000	ug/L	100
57) Bromodichloromethane	6.887	83	57852	10.000	ug/L	100
60) 1,4-Dioxane	7.113	88	3579	500.000	ug/L	100
61) cis-1,3-Dichloropropene	7.592	75	66946	10.000	ug/L	100
64) Toluene	7.862	92	114106	10.000	ug/L	100
65) 4-Methyl-2-pentanone	8.313	58	8402	10.000	ug/L	100
66) Tetrachloroethene	8.306	166	59627	10.000	ug/L	100
68) trans-1,3-Dichloropropene	8.348	75	57707	10.000	ug/L	100
70) Ethyl methacrylate	8.549	69	40932	10.000	ug/L	100
71) 1,1,2-Trichloroethane	8.535	83	27499	10.000	ug/L	100
72) Chlorodibromomethane	8.743	129	42823	10.000	ug/L	100
73) 1,3-Dichloropropane	8.861	76	55874	10.000	ug/L	100
74) 1,2-Dibromoethane	9.027	107	33385	10.000	ug/L	100
76) 2-Hexanone	9.328	43	12748	10.000	ug/L	100
77) Chlorobenzene	9.680	112	132556	10.000	ug/L	100
78) Ethylbenzene	9.723	91	227660	10.000	ug/L	100
79) 1,1,1,2-Tetrachloroethane	9.766	131	46994	10.000	ug/L	100
80) p/m Xylene	9.916	106	181396	20.000	ug/L	100
81) o Xylene	10.455	106	166548	20.000	ug/L	100

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A08.D
Acq On : 04 Aug 2017 22:58
Operator : VOA122:MAB
Sample : ISTDL3
Misc : WG1029271,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	268555	20.000	ug/L	100
84) Bromoform	10.530	173	28560	10.000	ug/L	100
86) Isopropylbenzene	10.831	105	240029	10.000	ug/L	100
88) Bromobenzene	11.262	156	56673	10.000	ug/L	100
89) n-Propylbenzene	11.305	91	275578	10.000	ug/L	100
90) 1,4-Dichlorobutane	11.326	55	49227	10.000	ug/L	100
91) 1,1,2,2-Tetrachloroethane	11.380	83	36162	10.000	ug/L	100
92) 4-Ethyltoluene	11.434	105	224270	10.000	ug/L	100
93) 2-Chlorotoluene	11.466	91	177368	10.000	ug/L	100
94) 1,3,5-Trimethylbenzene	11.531	105	189438	10.000	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	28833	10.000	ug/L	100
96) trans-1,4-Dichloro-2-b...	11.585	53	9156	10.000	ug/L	100
97) 4-Chlorotoluene	11.649	91	160338	10.000	ug/L	100
98) tert-Butylbenzene	11.870	119	171696	10.000	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	187124	10.000	ug/L	100
102) sec-Butylbenzene	12.062	105	248466	10.000	ug/L	100
103) p-Isopropyltoluene	12.217	119	214067	10.000	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	111057	10.000	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	109878	10.000	ug/L	100
106) p-Diethylbenzene	12.586	119	122922	10.000	ug/L	100
107) n-Butylbenzene	12.645	91	187591	10.000	ug/L	100
108) 1,2-Dichlorobenzene	12.792	146	98598	10.000	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	178926	10.000	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.567	155	5959	10.000	ug/L	100
111) 1,3,5-Trichlorobenzene	13.596	180	82525	10.000	ug/L	100
112) Hexachlorobutadiene	14.172	225	37656	10.000	ug/L	100
113) 1,2,4-Trichlorobenzene	14.201	180	73282	10.000	ug/L	100
114) Naphthalene	14.496	128	130728	10.000	ug/L	100
115) 1,2,3-Trichlorobenzene	14.659	180	65786	10.000	ug/L	100

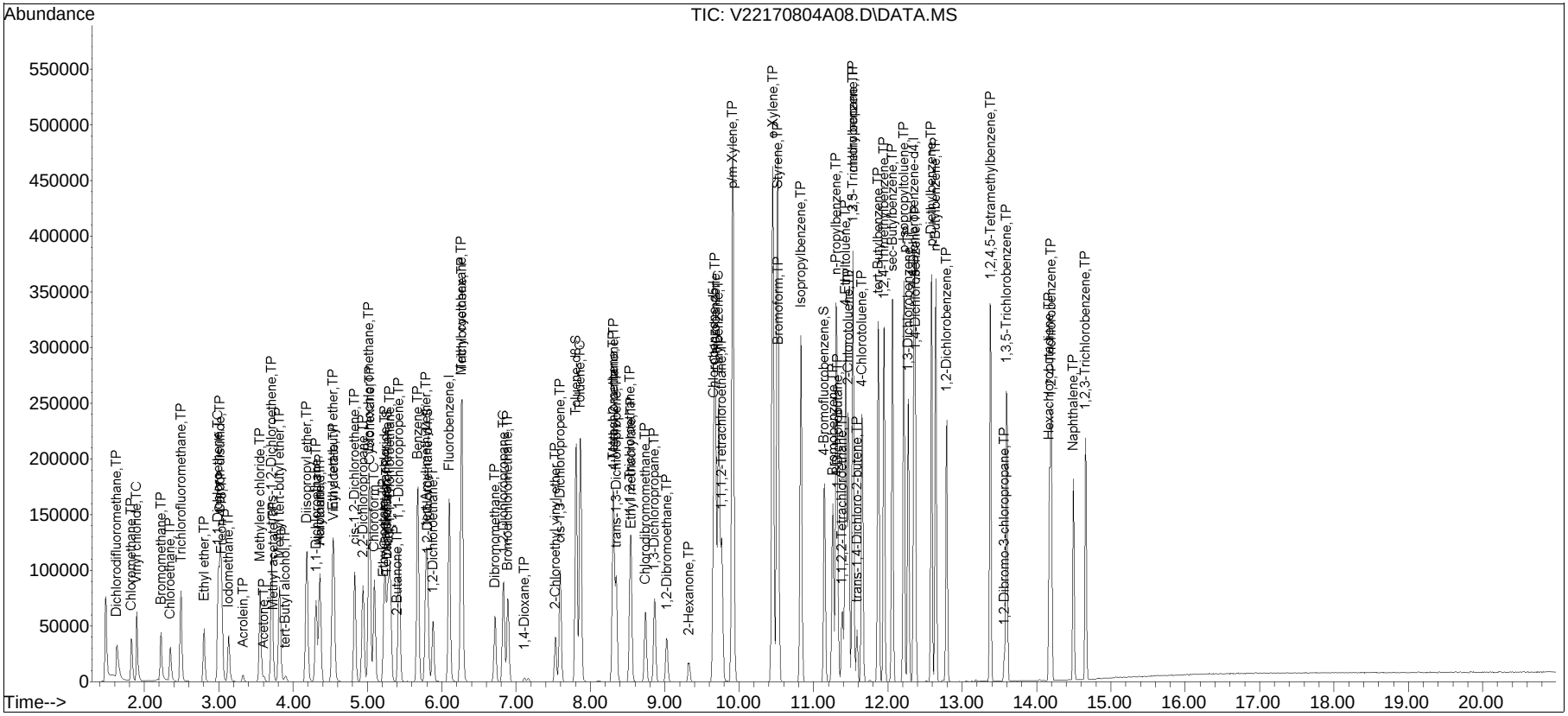
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A08.D
Acq On : 04 Aug 2017 22:58
Operator : VOA122:MAB
Sample : ISTDL3
Misc : WG1029271,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A08.D	Operator	: VOA122:MAB
Date Inj'd	: 8/4/2017 22:58	Instrument	: VOA122
Sample	: ISTDL3	Quant Date	: 8/5/2017 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A09.D
Acq On : 04 Aug 2017 23:26
Operator : VOA122:MAB
Sample : ISTDL4
Misc : WG1029271,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	166029	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 98.69%			
62) Chlorobenzene-d5	9.658	117	142192	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 101.57%			
83) 1,4-Dichlorobenzene-d4	12.350	152	78787	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 104.16%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	43400	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
46) 1,2-Dichloroethane-d4	5.813	65	40092	10.084	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.84%			
63) Toluene-d8	7.807	98	169909	9.791	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.91%			
87) 4-Bromofluorobenzene	11.144	95	66497	9.764	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.628	85	108068	30.055	ug/L	99
3) Chloromethane	1.824	50	114667	30.265	ug/L	98
4) Vinyl chloride	1.896	62	154031	30.870	ug/L	100
5) Bromomethane	2.227	94	90079	33.562	ug/L	99
6) Chloroethane	2.350	64	90292	31.363	ug/L	100
7) Trichlorofluoromethane	2.495	101	212550	31.198	ug/L	100
8) Ethyl ether	2.804	74	63799	824.604	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	126143	31.409	ug/L	100
11) Carbon disulfide	3.021	76	309883	31.138	ug/L	100
12) Freon-113	3.042	101	115077	31.198	ug/L	99
13) Iodomethane	3.135	142	168574	34.665	ug/L	99
14) Acrolein	3.320	56	18741	32.270	ug/L	99
15) Methylene chloride	3.558	84	130964	30.996	ug/L	99
17) Acetone	3.609	43	16569	32.394	ug/L	98
18) trans-1,2-Dichloroethene	3.712	96	144293	31.491	ug/L	99
19) Methyl acetate	3.733	43	44075	31.488	ug/L	99
21) Methyl tert-butyl ether	3.816	73	314996	31.306	ug/L	99
22) tert-Butyl alcohol	3.898	59	22650	161.291	ug/L	99
24) Diisopropyl ether	4.187	45	341851	31.565	ug/L	100
25) 1,1-Dichloroethane	4.311	63	231080	31.260	ug/L	100
26) Halothane	4.362	117	111114	31.003	ug/L	99

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A09.D
Acq On : 04 Aug 2017 23:26
Operator : VOA122:MAB
Sample : ISTDL4
Misc : WG1029271,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	25188	31.252	ug/L		98
28) Ethyl tert-butyl ether	4.538	59	344653	31.245	ug/L		98
29) Vinyl acetate	4.548	43	220169	32.243	ug/L		99
30) cis-1,2-Dichloroethene	4.827	96	155825	31.065	ug/L		100
31) 2,2-Dichloropropane	4.940	77	197526	30.604	ug/L		99
32) Bromochloromethane	5.023	128	67722	31.234	ug/L		98
33) Cyclohexane	5.033	56	201729	31.008	ug/L		98
34) Chloroform	5.095	83	237008	30.711	ug/L		100
35) Ethyl acetate	5.219	43	67334	32.166	ug/L		99
36) Carbon tetrachloride	5.239	117	205787	31.563	ug/L		99
37) Tetrahydrofuran	5.260	42	23285	30.783	ug/L		93
39) 1,1,1-Trichloroethane	5.301	97	229059	31.349	ug/L		99
41) 2-Butanone	5.404	43	25644	31.690	ug/L		98
42) 1,1-Dichloropropene	5.425	75	189771	31.319	ug/L		100
44) Benzene	5.681	78	587436	33.733	ug/L		97
45) tert-Amyl methyl ether	5.790	73	317300	31.239	ug/L		100
47) 1,2-Dichloroethane	5.883	62	146849	30.822	ug/L		99
50) Methyl cyclohexane	6.265	83	227809	31.685	ug/L		100
51) Trichloroethene	6.272	95	148417	31.517	ug/L		99
53) Dibromomethane	6.716	93	54399	30.995	ug/L		98
54) 1,2-Dichloropropane	6.833	63	121659	31.267	ug/L		99
56) 2-Chloroethyl vinyl ether	7.529	63	63374	31.248	ug/L		100
57) Bromodichloromethane	6.887	83	181840	31.851	ug/L		100
60) 1,4-Dioxane	7.113	88	4907	694.660	ug/L	#	93
61) cis-1,3-Dichloropropene	7.592	75	209835	31.762	ug/L		100
64) Toluene	7.862	92	355695	30.691	ug/L		99
65) 4-Methyl-2-pentanone	8.313	58	26456	31.001	ug/L		100
66) Tetrachloroethene	8.306	166	185928	30.700	ug/L		100
68) trans-1,3-Dichloropropene	8.348	75	180348	30.769	ug/L		99
70) Ethyl methacrylate	8.549	69	130931	31.493	ug/L		99
71) 1,1,2-Trichloroethane	8.535	83	85636	30.660	ug/L		99
72) Chlorodibromomethane	8.743	129	135693	31.197	ug/L		100
73) 1,3-Dichloropropane	8.861	76	172158	30.336	ug/L		100
74) 1,2-Dibromoethane	9.027	107	103809	30.614	ug/L		99
76) 2-Hexanone	9.328	43	40767	31.485	ug/L		99
77) Chlorobenzene	9.680	112	412064	30.606	ug/L		99
78) Ethylbenzene	9.723	91	704284	30.458	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.766	131	147043	30.806	ug/L		98
80) p/m Xylene	9.917	106	568593	61.722	ug/L		99
81) o Xylene	10.455	106	523867	61.937	ug/L		99

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A09.D
Acq On : 04 Aug 2017 23:26
Operator : VOA122:MAB
Sample : ISTDL4
Misc : WG1029271,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	866398	63.526	ug/L	100
84) Bromoform	10.530	173	93503	31.432	ug/L	99
86) Isopropylbenzene	10.831	105	751646	30.065	ug/L	100
88) Bromobenzene	11.262	156	177834	30.126	ug/L	100
89) n-Propylbenzene	11.305	91	870914	30.342	ug/L	99
90) 1,4-Dichlorobutane	11.327	55	152850	29.811	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.391	83	113458	30.123	ug/L	100
92) 4-Ethyltoluene	11.434	105	700744	29.998	ug/L	100
93) 2-Chlorotoluene	11.467	91	554360	30.007	ug/L	99
94) 1,3,5-Trimethylbenzene	11.531	105	597536	30.283	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	91011	30.305	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.585	53	29229	30.649	ug/L	98
97) 4-Chlorotoluene	11.660	91	502845	30.110	ug/L	100
98) tert-Butylbenzene	11.870	119	544415	30.442	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	595593	30.558	ug/L	99
102) sec-Butylbenzene	12.062	105	785360	30.347	ug/L	100
103) p-Isopropyltoluene	12.217	119	682795	30.623	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	352182	30.446	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	342053	29.888	ug/L	100
106) p-Diethylbenzene	12.586	119	390824	30.525	ug/L	99
107) n-Butylbenzene	12.645	91	602317	30.826	ug/L	100
108) 1,2-Dichlorobenzene	12.792	146	315532	30.724	ug/L	99
109) 1,2,4,5-Tetramethylben...	13.382	119	580878	31.169	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.567	155	19842	31.968	ug/L	99
111) 1,3,5-Trichlorobenzene	13.596	180	268307	31.214	ug/L	98
112) Hexachlorobutadiene	14.172	225	122512	31.236	ug/L	98
113) 1,2,4-Trichlorobenzene	14.201	180	232662	30.482	ug/L	100
114) Naphthalene	14.496	128	420441	30.878	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	209570	30.585	ug/L	100

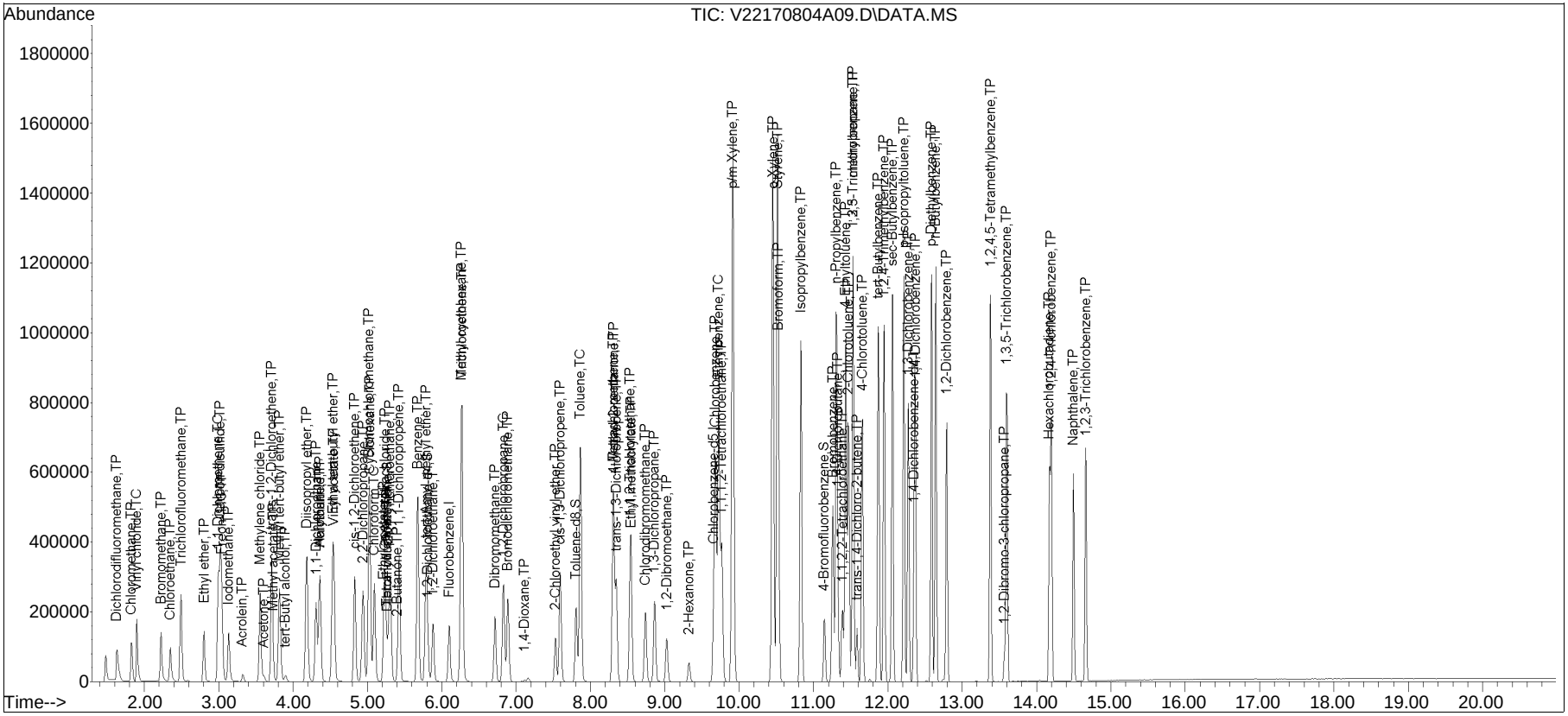
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A09.D
Acq On : 04 Aug 2017 23:26
Operator : VOA122:MAB
Sample : ISTDL4
Misc : WG1029271,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22170804A09.D	Operator	: VOA122:MAB
Date Inj'd	: 8/4/2017 23:26	Instrument	: VOA122
Sample	: ISTDL4	Quant Date	: 8/5/2017 11:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A10.D
Acq On : 04 Aug 2017 23:54
Operator : VOA122:MAB
Sample : ISTDL6
Misc : WG1029271,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	169073	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 100.49%			
62) Chlorobenzene-d5	9.658	117	147472	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 105.34%			
83) 1,4-Dichlorobenzene-d4	12.357	152	79306	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 104.84%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	43725	9.924	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.24%			
46) 1,2-Dichloroethane-d4	5.813	65	40548	10.015	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.15%			
63) Toluene-d8	7.807	98	173985	9.667	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.67%			
87) 4-Bromofluorobenzene	11.144	95	67637	9.867	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.67%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.628	85	276528	75.521	ug/L	99
3) Chloromethane	1.824	50	298806	77.447	ug/L	99
4) Vinyl chloride	1.896	62	395385	77.813	ug/L	99
5) Bromomethane	2.227	94	262191	95.930	ug/L	99
6) Chloroethane	2.350	64	235501	80.328	ug/L	100
7) Trichlorofluoromethane	2.495	101	549425	79.193	ug/L	100
8) Ethyl ether	2.804	74	165938	2106.141	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	332080	81.197	ug/L	99
11) Carbon disulfide	3.021	76	808884	79.816	ug/L	99
12) Freon-113	3.042	101	298232	79.395	ug/L	99
13) Iodomethane	3.134	142	459783	92.845	ug/L	99
14) Acrolein	3.320	56	47899	80.991	ug/L	98
15) Methylene chloride	3.558	84	343121	79.746	ug/L	99
17) Acetone	3.609	43	40940	78.600	ug/L	93
18) trans-1,2-Dichloroethene	3.712	96	378857	81.194	ug/L	99
19) Methyl acetate	3.723	43	109477	76.804	ug/L	99
21) Methyl tert-butyl ether	3.815	73	804057	78.473	ug/L	98
22) tert-Butyl alcohol	3.898	59	52896	369.892	ug/L	96
24) Diisopropyl ether	4.187	45	882291	80.001	ug/L	99
25) 1,1-Dichloroethane	4.311	63	598803	79.547	ug/L	100
26) Halothane	4.362	117	291292	79.813	ug/L	99

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A10.D
Acq On : 04 Aug 2017 23:54
Operator : VOA122:MAB
Sample : ISTDL6
Misc : WG1029271,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	63479	77.344	ug/L		98
28) Ethyl tert-butyl ether	4.538	59	883856	78.683	ug/L		99
29) Vinyl acetate	4.548	43	559537	80.468	ug/L		100
30) cis-1,2-Dichloroethene	4.827	96	404829	79.253	ug/L		100
31) 2,2-Dichloropropane	4.940	77	503261	76.570	ug/L		98
32) Bromochloromethane	5.023	128	173942	78.779	ug/L		98
33) Cyclohexane	5.033	56	517740	78.149	ug/L		99
34) Chloroform	5.095	83	613452	78.060	ug/L		100
35) Ethyl acetate	5.219	43	165352	77.569	ug/L		99
36) Carbon tetrachloride	5.229	117	533754	80.391	ug/L		99
37) Tetrahydrofuran	5.250	42	56989	73.984	ug/L		94
39) 1,1,1-Trichloroethane	5.301	97	591494	79.493	ug/L		99
41) 2-Butanone	5.404	43	63467	77.018	ug/L		93
42) 1,1-Dichloropropene	5.425	75	491772	79.699	ug/L		99
44) Benzene	5.681	78	1515457	85.458	ug/L		97
45) tert-Amyl methyl ether	5.790	73	806812	78.003	ug/L		99
47) 1,2-Dichloroethane	5.883	62	371527	76.575	ug/L		99
50) Methyl cyclohexane	6.265	83	590510	80.653	ug/L		99
51) Trichloroethene	6.272	95	389968	81.320	ug/L		99
53) Dibromomethane	6.716	93	136216	76.213	ug/L		99
54) 1,2-Dichloropropane	6.833	63	319746	80.697	ug/L		99
56) 2-Chloroethyl vinyl ether	7.529	63	159657	77.306	ug/L		99
57) Bromodichloromethane	6.887	83	478610	82.323	ug/L		100
60) 1,4-Dioxane	7.113	88	5685	790.308	ug/L	#	92
61) cis-1,3-Dichloropropene	7.592	75	550264	81.791	ug/L		99
64) Toluene	7.862	92	932795	77.603	ug/L		98
65) 4-Methyl-2-pentanone	8.313	58	68439	77.326	ug/L		99
66) Tetrachloroethene	8.306	166	489647	77.955	ug/L		99
68) trans-1,3-Dichloropropene	8.348	75	472864	77.788	ug/L		98
70) Ethyl methacrylate	8.549	69	342125	79.346	ug/L		99
71) 1,1,2-Trichloroethane	8.535	83	222269	76.730	ug/L		99
72) Chlorodibromomethane	8.743	129	360550	79.927	ug/L		100
73) 1,3-Dichloropropane	8.861	76	444289	75.485	ug/L		99
74) 1,2-Dibromoethane	9.027	107	296818	84.400	ug/L		99
76) 2-Hexanone	9.328	43	102768	76.528	ug/L		99
77) Chlorobenzene	9.680	112	1089449	78.021	ug/L		99
78) Ethylbenzene	9.723	91	1862601	77.667	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.766	131	385546	77.882	ug/L		98
80) p/m Xylene	9.917	106	1493312	156.299	ug/L		98
81) o Xylene	10.455	106	1384738	157.856	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A10.D
Acq On : 04 Aug 2017 23:54
Operator : VOA122:MAB
Sample : ISTDL6
Misc : WG1029271,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	2308807	163.225	ug/L	100
84) Bromoform	10.530	173	249338	83.270	ug/L	99
86) Isopropylbenzene	10.831	105	1953151	77.612	ug/L	99
88) Bromobenzene	11.262	156	466848	78.570	ug/L	100
89) n-Propylbenzene	11.305	91	2256143	78.087	ug/L	99
90) 1,4-Dichlorobutane	11.327	55	390005	75.566	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.391	83	283170	74.688	ug/L	100
92) 4-Ethyltoluene	11.434	105	1774860	75.483	ug/L	99
93) 2-Chlorotoluene	11.477	91	1413936	76.035	ug/L	99
94) 1,3,5-Trimethylbenzene	11.531	105	1536572	77.365	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	227741	75.337	ug/L	100
96) trans-1,4-Dichloro-2-b...	11.585	53	73728	76.804	ug/L	96
97) 4-Chlorotoluene	11.660	91	1298657	77.253	ug/L	99
98) tert-Butylbenzene	11.870	119	1407121	78.168	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	1546046	78.804	ug/L	100
102) sec-Butylbenzene	12.062	105	2002454	76.869	ug/L	99
103) p-Isopropyltoluene	12.217	119	1757863	78.324	ug/L	99
104) 1,3-Dichlorobenzene	12.276	146	917656	78.812	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	898298	77.977	ug/L	99
106) p-Diethylbenzene	12.586	119	1031259	80.019	ug/L	99
107) n-Butylbenzene	12.645	91	1540081	78.305	ug/L	100
108) 1,2-Dichlorobenzene	12.792	146	822375	79.553	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	1528356	81.472	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.567	155	51243	82.020	ug/L	99
111) 1,3,5-Trichlorobenzene	13.604	180	709153	81.962	ug/L	99
112) Hexachlorobutadiene	14.172	225	324559	82.208	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	622417	81.010	ug/L	100
114) Naphthalene	14.496	128	1081128	78.880	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	551230	79.920	ug/L	100

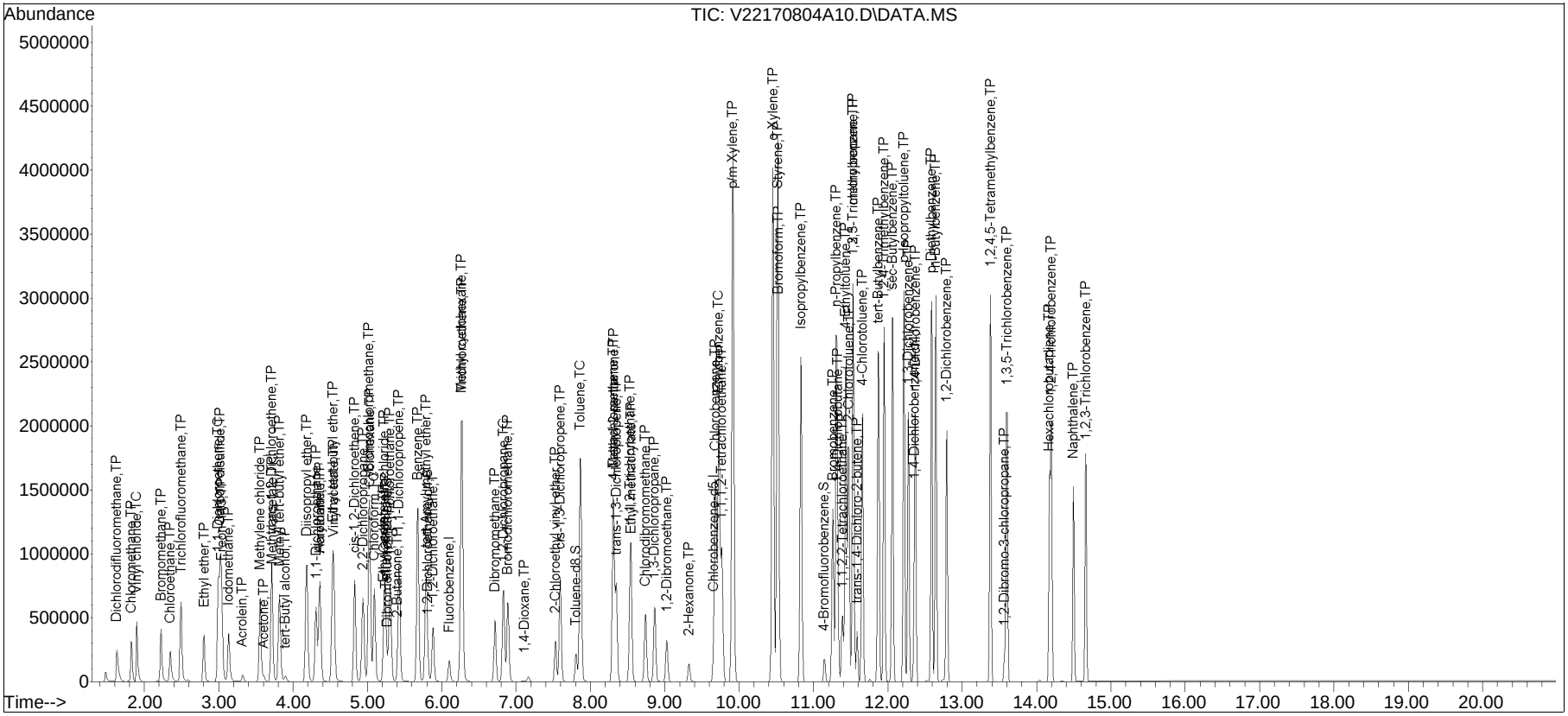
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A10.D
Acq On : 04 Aug 2017 23:54
Operator : VOA122:MAB
Sample : ISTDL6
Misc : WG1029271,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A10.D	Operator	: VOA122:MAB
Date Inj'd	: 8/4/2017 23:54	Instrument	: VOA122
Sample	: ISTDL6	Quant Date	: 8/5/2017 11:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A11.D
Acq On : 05 Aug 2017 00:21
Operator : VOA122:MAB
Sample : ISTDL8
Misc : WG1029271,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	177883	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 105.73%			
62) Chlorobenzene-d5	9.658	117	155537	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 111.10%			
83) 1,4-Dichlorobenzene-d4	12.357	152	82587	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 109.18%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	46198	9.966	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.66%			
46) 1,2-Dichloroethane-d4	5.813	65	42335	9.939	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.39%			
63) Toluene-d8	7.807	98	184270	9.707	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.07%			
87) 4-Bromofluorobenzene	11.144	95	70728	9.908	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.628	85	451920	117.308	ug/L	99
3) Chloromethane	1.824	50	473400	116.623	ug/L	99
4) Vinyl chloride	1.896	62	633538	118.507	ug/L	99
5) Bromomethane	2.227	94	437327	152.084	ug/L	98
6) Chloroethane	2.350	64	383001	124.170	ug/L	100
7) Trichlorofluoromethane	2.495	101	909325	124.576	ug/L	100
8) Ethyl ether	2.804	74	268301	3236.709	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	551109	128.077	ug/L	98
11) Carbon disulfide	3.021	76	1347341	126.363	ug/L	99
12) Freon-113	3.042	101	500202	126.569	ug/L	99
13) Iodomethane	3.135	142	731525	140.402	ug/L	99
14) Acrolein	3.320	56	76864	123.530	ug/L	99
15) Methylene chloride	3.558	84	549696	121.429	ug/L	98
17) Acetone	3.609	43	64453	117.614	ug/L	92
18) trans-1,2-Dichloroethene	3.712	96	619657	126.224	ug/L	98
19) Methyl acetate	3.733	43	172247	114.855	ug/L	97
21) Methyl tert-butyl ether	3.816	73	1278234	118.572	ug/L	98
22) tert-Butyl alcohol	3.898	59	86925	577.746	ug/L	95
24) Diisopropyl ether	4.187	45	1388791	119.691	ug/L	99
25) 1,1-Dichloroethane	4.311	63	945312	119.359	ug/L	100
26) Halothane	4.362	117	476597	124.119	ug/L	100

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A11.D
Acq On : 05 Aug 2017 00:21
Operator : VOA122:MAB
Sample : ISTDL8
Misc : WG1029271,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	99403	115.116	ug/L		97
28) Ethyl tert-butyl ether	4.538	59	1398722	118.351	ug/L		98
29) Vinyl acetate	4.548	43	881666	120.515	ug/L		99
30) cis-1,2-Dichloroethene	4.827	96	646753	120.344	ug/L		99
31) 2,2-Dichloropropane	4.940	77	804921	116.402	ug/L		97
32) Bromochloromethane	5.023	128	273788	117.859	ug/L		96
33) Cyclohexane	5.033	56	851949	122.227	ug/L		98
34) Chloroform	5.095	83	978597	118.356	ug/L		99
35) Ethyl acetate	5.219	43	263897	117.666	ug/L		99
36) Carbon tetrachloride	5.239	117	880734	126.081	ug/L		99
37) Tetrahydrofuran	5.250	42	89851	110.868	ug/L		94
39) 1,1,1-Trichloroethane	5.301	97	964493	123.202	ug/L		99
41) 2-Butanone	5.404	43	100747	116.203	ug/L		92
42) 1,1-Dichloropropene	5.425	75	803759	123.810	ug/L		99
44) Benzene	5.681	78	2405196	128.914	ug/L		98
45) tert-Amyl methyl ether	5.790	73	1284435	118.030	ug/L		99
47) 1,2-Dichloroethane	5.883	62	585820	114.763	ug/L		99
50) Methyl cyclohexane	6.265	83	988191	128.284	ug/L		98
51) Trichloroethene	6.272	95	640248	126.898	ug/L		100
53) Dibromomethane	6.716	93	220049	117.021	ug/L		99
54) 1,2-Dichloropropane	6.833	63	504681	121.062	ug/L		99
56) 2-Chloroethyl vinyl ether	7.529	63	255244	117.468	ug/L		98
57) Bromodichloromethane	6.887	83	763028	124.744	ug/L		100
60) 1,4-Dioxane	7.113	88	8909	1177.158	ug/L	#	87
61) cis-1,3-Dichloropropene	7.592	75	874340	123.525	ug/L		98
64) Toluene	7.869	92	1507748	118.932	ug/L		97
65) 4-Methyl-2-pentanone	8.313	58	111644	119.600	ug/L		96
66) Tetrachloroethene	8.306	166	812165	122.597	ug/L		99
68) trans-1,3-Dichloropropene	8.348	75	752634	117.391	ug/L		97
70) Ethyl methacrylate	8.549	69	552416	121.474	ug/L		99
71) 1,1,2-Trichloroethane	8.535	83	353617	115.743	ug/L		100
72) Chlorodibromomethane	8.743	129	577353	121.351	ug/L		100
73) 1,3-Dichloropropane	8.868	76	705893	113.712	ug/L		99
74) 1,2-Dibromoethane	9.027	107	475246	128.129	ug/L		100
76) 2-Hexanone	9.328	43	165180	116.626	ug/L		98
77) Chlorobenzene	9.680	112	1744300	118.441	ug/L		99
78) Ethylbenzene	9.723	91	2956063	116.871	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.766	131	613354	117.476	ug/L		98
80) p/m Xylene	9.917	106	2389565	237.137	ug/L		95
81) o Xylene	10.455	106	2212756	239.168	ug/L		96

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A11.D
Acq On : 05 Aug 2017 00:21
Operator : VOA122:MAB
Sample : ISTDL8
Misc : WG1029271,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	3608902	241.908	ug/L	100
84) Bromoform	10.530	173	402577	129.105	ug/L	100
86) Isopropylbenzene	10.832	105	3101329	118.341	ug/L	99
88) Bromobenzene	11.262	156	744932	120.390	ug/L	100
89) n-Propylbenzene	11.305	91	3538388	117.601	ug/L	98
90) 1,4-Dichlorobutane	11.327	55	606351	112.816	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.391	83	442762	112.142	ug/L	99
92) 4-Ethyltoluene	11.434	105	2798163	114.276	ug/L	98
93) 2-Chlorotoluene	11.477	91	2212385	114.245	ug/L	98
94) 1,3,5-Trimethylbenzene	11.531	105	2419181	116.964	ug/L	99
95) 1,2,3-Trichloropropane	11.531	75	355170	112.823	ug/L	98
96) trans-1,4-Dichloro-2-b...	11.585	53	111291	111.328	ug/L	90
97) 4-Chlorotoluene	11.660	91	2023289	115.577	ug/L	98
98) tert-Butylbenzene	11.877	119	2229793	118.948	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	2423513	118.623	ug/L	99
102) sec-Butylbenzene	12.062	105	3155886	116.334	ug/L	98
103) p-Isopropyltoluene	12.217	119	2764472	118.281	ug/L	98
104) 1,3-Dichlorobenzene	12.276	146	1445713	119.231	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	1427979	119.032	ug/L	99
106) p-Diethylbenzene	12.586	119	1652221	123.109	ug/L	99
107) n-Butylbenzene	12.645	91	2440572	119.160	ug/L	99
108) 1,2-Dichlorobenzene	12.792	146	1301766	120.925	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	2431098	124.446	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.574	155	82297	126.492	ug/L	100
111) 1,3,5-Trichlorobenzene	13.604	180	1137755	126.274	ug/L	99
112) Hexachlorobutadiene	14.179	225	537875	130.827	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	1003062	125.367	ug/L	99
114) Naphthalene	14.496	128	1720232	120.523	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	883584	123.017	ug/L	99

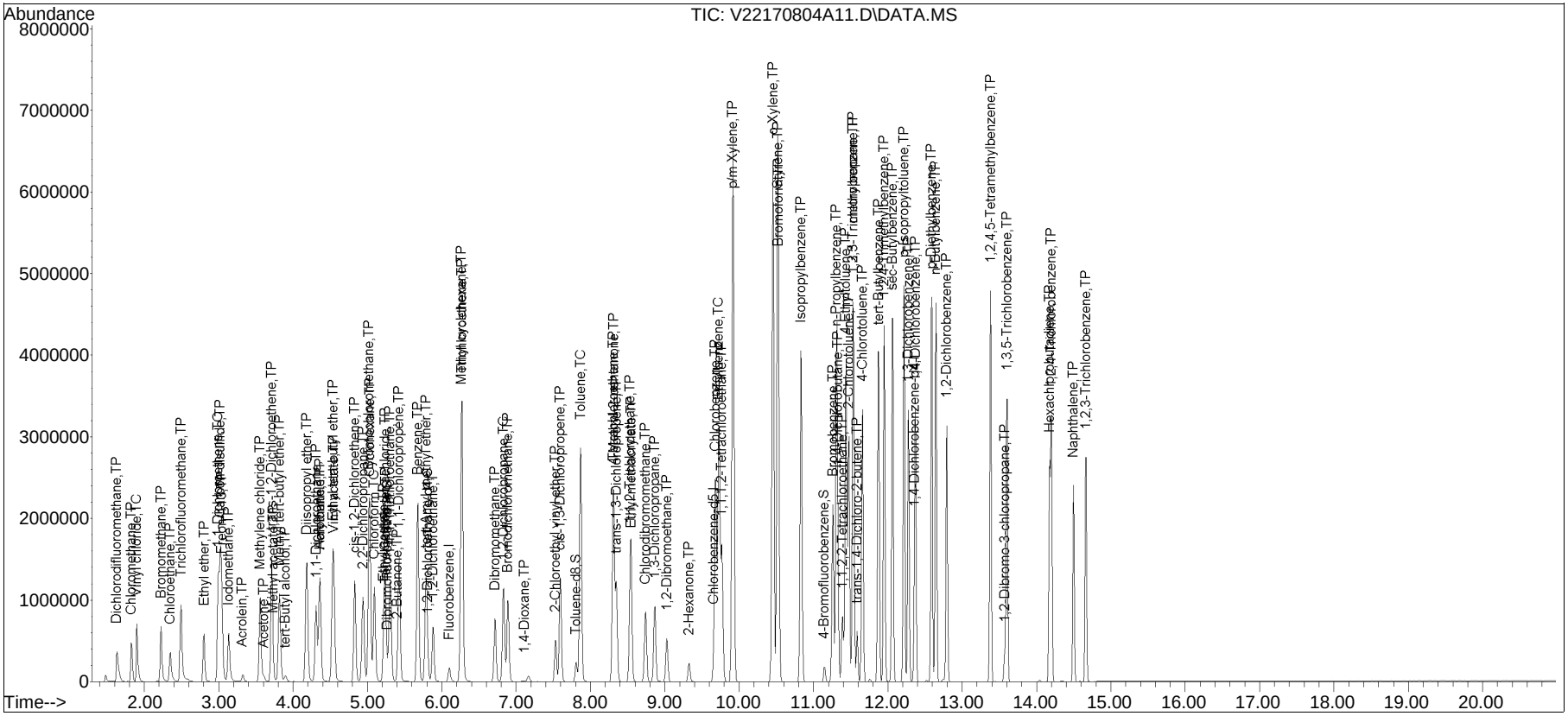
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A11.D
Acq On : 05 Aug 2017 00:21
Operator : VOA122:MAB
Sample : ISTDL8
Misc : WG1029271,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A11.D	Operator	: VOA122:MAB
Date Inj'd	: 8/5/2017 0:21	Instrument	: VOA122
Sample	: ISTDL8	Quant Date	: 8/5/2017 11:26 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A12.D
Acq On : 05 Aug 2017 00:48
Operator : VOA122:MAB
Sample : ISTDL10
Misc : WG1029271,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	179405	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 106.64%			
62) Chlorobenzene-d5	9.669	117	156988	10.000	ug/L	0.01
Standard Area 1 = 139995			Recovery = 112.14%			
83) 1,4-Dichlorobenzene-d4	12.357	152	84173	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 111.28%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.281	113	46159	9.874	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.74%			
46) 1,2-Dichloroethane-d4	5.813	65	43122	10.037	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
63) Toluene-d8	7.807	98	184958	9.653	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.53%			
87) 4-Bromofluorobenzene	11.144	95	70184	9.646	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.628	85	735009	189.173	ug/L	99
3) Chloromethane	1.824	50	793527	193.829	ug/L	99
4) Vinyl chloride	1.896	62	1029783	190.994	ug/L	99
5) Bromomethane	2.227	94	756615	260.886	ug/L	98
6) Chloroethane	2.340	64	634477	203.954	ug/L	100
7) Trichlorofluoromethane	2.495	101	1493223	202.834	ug/L	99
8) Ethyl ether	2.804	74	458410	5483.216	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	923719	212.851	ug/L	95
11) Carbon disulfide	3.021	76	2236080	207.936	ug/L	99
12) Freon-113	3.031	101	828666	207.903	ug/L	98
13) Iodomethane	3.135	142	1201977	228.739	ug/L	99
14) Acrolein	3.320	56	132241	210.725	ug/L	99
15) Methylene chloride	3.558	84	931098	203.937	ug/L	97
17) Acetone	3.609	43	109258	197.683	ug/L	93
18) trans-1,2-Dichloroethene	3.712	96	1033921	208.822	ug/L	97
19) Methyl acetate	3.723	43	287181	189.869	ug/L	97
21) Methyl tert-butyl ether	3.816	73	2137013	196.553	ug/L	98
22) tert-Butyl alcohol	3.898	59	146492	965.398	ug/L	94
24) Diisopropyl ether	4.187	45	2298347	196.399	ug/L	98
25) 1,1-Dichloroethane	4.311	63	1560496	195.363	ug/L	100
26) Halothane	4.362	117	788873	203.702	ug/L	99

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A12.D
Acq On : 05 Aug 2017 00:48
Operator : VOA122:MAB
Sample : ISTDL10
Misc : WG1029271,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	167160	191.941	ug/L		98
28) Ethyl tert-butyl ether	4.538	59	2332750	195.708	ug/L		98
29) Vinyl acetate	4.548	43	1470774	199.334	ug/L		98
30) cis-1,2-Dichloroethene	4.827	96	1081195	199.476	ug/L		98
31) 2,2-Dichloropropane	4.940	77	1322954	189.693	ug/L		96
32) Bromochloromethane	5.023	128	459970	196.326	ug/L		94
33) Cyclohexane	5.033	56	1393888	198.281	ug/L		97
34) Chloroform	5.095	83	1623795	194.723	ug/L		99
35) Ethyl acetate	5.219	43	435715	192.627	ug/L		98
36) Carbon tetrachloride	5.239	117	1464330	207.848	ug/L		99
37) Tetrahydrofuran	5.250	42	147612	180.595	ug/L		91
39) 1,1,1-Trichloroethane	5.301	97	1605983	203.404	ug/L		99
41) 2-Butanone	5.404	43	167789	191.888	ug/L		90
42) 1,1-Dichloropropene	5.425	75	1322634	202.008	ug/L		98
44) Benzene	5.681	78	3962158	210.562	ug/L		98
45) tert-Amyl methyl ether	5.790	73	2156455	196.481	ug/L		98
47) 1,2-Dichloroethane	5.883	62	975036	189.391	ug/L		98
50) Methyl cyclohexane	6.265	83	1647011	211.996	ug/L		97
51) Trichloroethene	6.272	95	1084967	213.217	ug/L		100
53) Dibromomethane	6.716	93	376707	198.631	ug/L		99
54) 1,2-Dichloropropane	6.833	63	854410	203.216	ug/L		99
56) 2-Chloroethyl vinyl ether	7.529	63	432608	197.405	ug/L		98
57) Bromodichloromethane	6.887	83	1293344	209.649	ug/L		100
60) 1,4-Dioxane	7.113	88	14605	1913.406	ug/L	#	89
61) cis-1,3-Dichloropropene	7.592	75	1474880	206.600	ug/L		97
64) Toluene	7.869	92	2538972	198.425	ug/L		96
65) 4-Methyl-2-pentanone	8.313	58	188738	200.319	ug/L		95
66) Tetrachloroethene	8.306	166	1384036	206.991	ug/L		99
68) trans-1,3-Dichloropropene	8.348	75	1267718	195.903	ug/L		96
70) Ethyl methacrylate	8.549	69	935819	203.880	ug/L		99
71) 1,1,2-Trichloroethane	8.535	83	600345	194.684	ug/L		100
72) Chlorodibromomethane	8.743	129	988867	205.924	ug/L		100
73) 1,3-Dichloropropane	8.868	76	1187931	189.595	ug/L		100
74) 1,2-Dibromoethane	9.027	107	808256	215.896	ug/L		99
76) 2-Hexanone	9.328	43	278857	195.068	ug/L		97
77) Chlorobenzene	9.680	112	2932803	197.301	ug/L		99
78) Ethylbenzene	9.734	91	4855659	190.199	ug/L		97
79) 1,1,1,2-Tetrachloroethane	9.766	131	1026075	194.708	ug/L		98
80) p/m Xylene	9.917	106	3929828	386.386	ug/L		92
81) o Xylene	10.455	106	3651181	390.994	ug/L		92

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A12.D
Acq On : 05 Aug 2017 00:48
Operator : VOA122:MAB
Sample : ISTDL10
Misc : WG1029271,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	5832275	387.330	ug/L	98
84) Bromoform	10.530	173	688575	216.662	ug/L	100
86) Isopropylbenzene	10.832	105	5029104	188.286	ug/L	97
88) Bromobenzene	11.262	156	1263774	200.393	ug/L	99
89) n-Propylbenzene	11.316	91	5654699	184.398	ug/L	95
90) 1,4-Dichlorobutane	11.327	55	1007003	183.831	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.391	83	725792	180.364	ug/L	99
92) 4-Ethyltoluene	11.434	105	4516377	180.971	ug/L	96
93) 2-Chlorotoluene	11.477	91	3652696	185.067	ug/L	97
94) 1,3,5-Trimethylbenzene	11.542	105	3945694	187.174	ug/L	97
95) 1,2,3-Trichloropropane	11.531	75	591421	184.330	ug/L	97
96) trans-1,4-Dichloro-2-b...	11.585	53	184842	181.420	ug/L	87
97) 4-Chlorotoluene	11.660	91	3323329	186.263	ug/L	97
98) tert-Butylbenzene	11.877	119	3662737	191.706	ug/L	99
101) 1,2,4-Trimethylbenzene	11.951	105	3964468	190.391	ug/L	98
102) sec-Butylbenzene	12.062	105	5037069	182.180	ug/L	96
103) p-Isopropyltoluene	12.217	119	4456169	187.069	ug/L	97
104) 1,3-Dichlorobenzene	12.276	146	2413637	195.306	ug/L	99
105) 1,4-Dichlorobenzene	12.372	146	2379725	194.628	ug/L	99
106) p-Diethylbenzene	12.593	119	2727659	199.412	ug/L	98
107) n-Butylbenzene	12.645	91	3936435	188.574	ug/L	97
108) 1,2-Dichlorobenzene	12.792	146	2197307	200.269	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	3951287	198.452	ug/L	97
110) 1,2-Dibromo-3-chloropr...	13.574	155	143648	216.629	ug/L	99
111) 1,3,5-Trichlorobenzene	13.604	180	1913353	208.353	ug/L	98
112) Hexachlorobutadiene	14.179	225	918128	219.109	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	1694424	207.785	ug/L	99
114) Naphthalene	14.496	128	2888218	198.542	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	1488602	203.346	ug/L	100

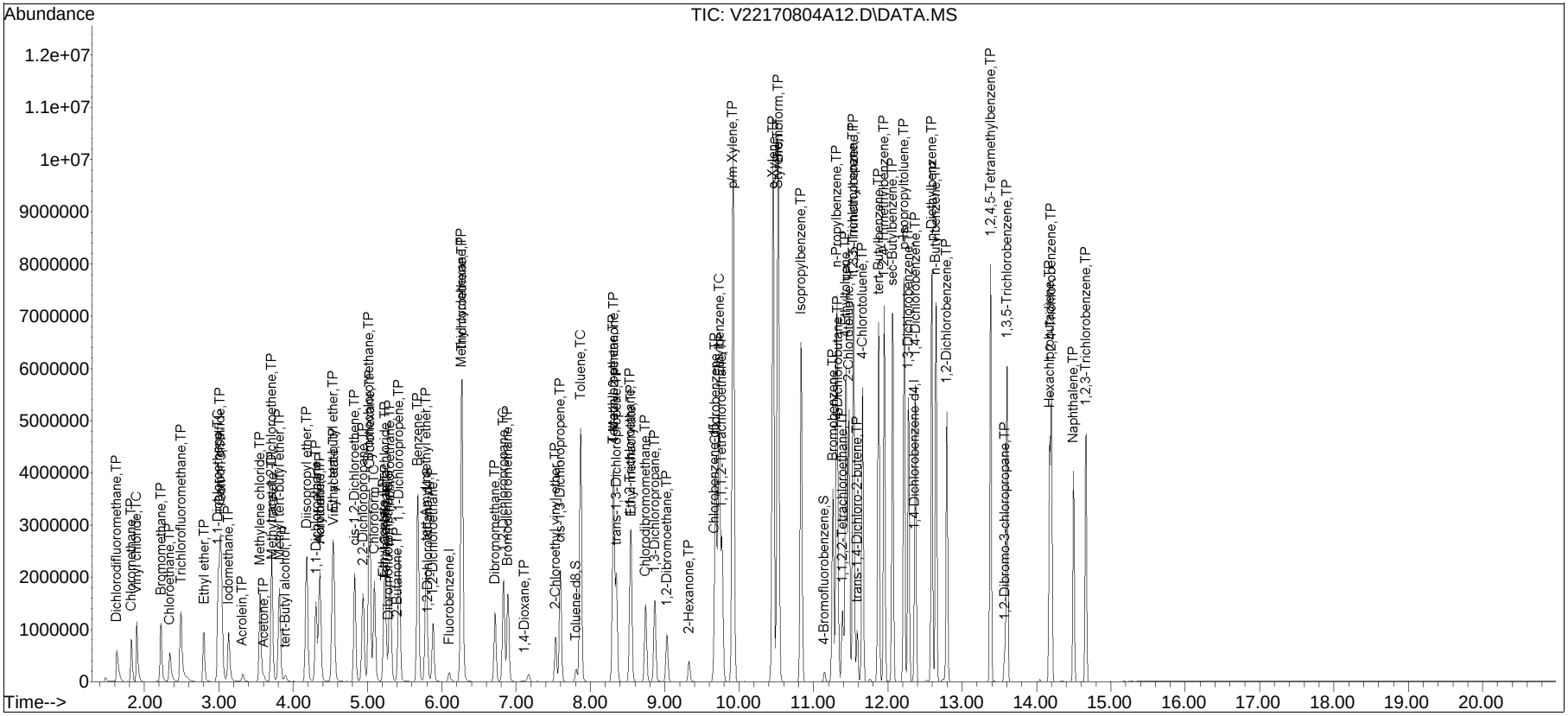
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A12.D
Acq On : 05 Aug 2017 00:48
Operator : VOA122:MAB
Sample : ISTDL10
Misc : WG1029271,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A12.D	Operator	: VOA122:MAB
Date Inj'd	: 8/5/2017 0:48	Instrument	: VOA122
Sample	: ISTDL10	Quant Date	: 8/5/2017 11:26 am

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

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
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	103	0.00
2	TP	Dichlorodifluoromethane	0.200	0.227	-13.5	108	0.01
3	TP	Chloromethane	0.228	0.247	-8.3	112	0.01
4	TC	Vinyl chloride	0.286	0.307	-7.3	106	0.00
5	TP	Bromomethane	0.187	0.184	1.6	117	0.00
6	TP	Chloroethane	0.172	0.178	-3.5	106	0.00
7	TP	Trichlorofluoromethane	0.393	0.403	-2.5	102	0.00
8	TP	Ethyl ether	0.122	0.129	-5.7	109	0.00
10	TC	1,1-Dichloroethene	0.243	0.249	-2.5	106	0.00
11	TP	Carbon disulfide	0.624	0.655	-5.0	113	0.00
12	TP	Freon-113	0.212	0.257	-21.2#	120	0.00
13	TP	Iodomethane	0.320	0.227	29.1#	80	0.00
14	TP	Acrolein	0.035	0.021#	40.0#	61	0.00
15	TP	Methylene chloride	0.259	0.257	0.8	104	0.00
17	TP	Acetone	0.031	0.030#	3.2	102	0.00
18	TP	trans-1,2-Dichloroethene	0.280	0.273	2.5	102	0.00
19	TP	Methyl acetate	0.081	0.099#	-22.2#	121	0.00
21	TP	Methyl tert-butyl ether	0.600	0.591	1.5	101	0.00
22	TP	tert-Butyl alcohol	0.00775	0.01001#	-29.2#	122	0.01
24	TP	Diisopropyl ether	0.652	0.666	-2.1	106	0.00
25	TP	1,1-Dichloroethane	0.444	0.452	-1.8	105	0.00
26	TP	Halothane	0.214	0.219	-2.3	105	0.00
27	TP	Acrylonitrile	0.044	0.047#	-6.8	100	0.00
28	TP	Ethyl tert-butyl ether	0.658	0.682	-3.6	106	0.00
29	TP	Vinyl acetate	0.408	0.382	6.4	96	0.01
30	TP	cis-1,2-Dichloroethene	0.301	0.304	-1.0	104	0.00
31	TP	2,2-Dichloropropane	0.384	0.343	10.7	91	0.00
32	TP	Bromochloromethane	0.127	0.131	-3.1	104	0.00
33	TP	Cyclohexane	0.372	0.424	-14.0	112	0.00
34	TC	Chloroform	0.461	0.471	-2.2	105	0.00
35	TP	Ethyl acetate	0.124	0.135	-8.9	111	0.00
36	TP	Carbon tetrachloride	0.364	0.380	-4.4	100	0.00
37	TP	Tetrahydrofuran	0.046	0.045#	2.2	102	0.00
38	S	Dibromofluoromethane	0.258	0.253	1.9	101	0.00
39	TP	1,1,1-Trichloroethane	0.438	0.436	0.5	102	0.00
41	TP	2-Butanone	0.046	0.046#	0.0	99	0.00
42	TP	1,1-Dichloropropene	0.362	0.363	-0.3	103	0.00
44	TP	Benzene	1.082	1.070	1.1	105	0.00
45	TP	tert-Amyl methyl ether	0.607	0.628	-3.5	106	0.00

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
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)
46	S	1,2-Dichloroethane-d4	0.239	0.235	1.7	102	0.00
47	T	1,2-Dichloroethane	0.281	0.273	2.8	98	0.00
50	TP	Methyl cyclohexane	0.423	0.484	-14.4	116	0.00
51	TP	Trichloroethene	0.279	0.287	-2.9	105	0.00
53	TP	Dibromomethane	0.104	0.106	-1.9	104	0.00
54	TC	1,2-Dichloropropane	0.235	0.236	-0.4	104	0.00
56	TP	2-Chloroethyl vinyl ether	0.119	0.110	7.6	93	0.00
57	TP	Bromodichloromethane	0.350	0.327	6.6	98	0.00
60	TP	1,4-Dioxane	0.00042	0.00049#	-16.7	119	0.00
61	TP	cis-1,3-Dichloropropene	0.403	0.390	3.2	101	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
63	S	Toluene-d8	1.202	1.217	-1.2	102	0.00
64	TC	Toluene	0.813	0.840	-3.3	106	0.00
65	TP	4-Methyl-2-pentanone	0.059	0.056#	5.1	96	0.00
66	TP	Tetrachloroethene	0.420	0.423	-0.7	102	0.00
68	TP	trans-1,3-Dichloropropene	0.402	0.401	0.2	100	0.00
70	TP	Ethyl methacrylate	0.286	0.293	-2.4	103	0.00
71	TP	1,1,2-Trichloroethane	0.192	0.197	-2.6	103	0.00
72	TP	Chlorodibromomethane	0.303	0.305	-0.7	102	0.00
73	TP	1,3-Dichloropropane	0.390	0.404	-3.6	104	0.00
74	TP	1,2-Dibromoethane	0.244	0.242	0.8	104	0.00
76	TP	2-Hexanone	0.086	0.086#	0.0	97	0.00
77	TP	Chlorobenzene	0.945	0.941	0.4	102	0.00
78	TC	Ethylbenzene	1.597	1.663	-4.1	105	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.330	0.343	-3.9	105	0.00
80	TP	p/m Xylene	0.640	0.651	-1.7	103	0.00
81	TP	o Xylene	0.587	0.625	-6.5	108	0.00
82	TP	Styrene	0.947	1.003	-5.9	107	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
84	TP	Bromoform	0.384	0.377	1.8	102	0.00
86	TP	Isopropylbenzene	3.124	3.098	0.8	100	0.00
87	S	4-Bromofluorobenzene	0.864	0.870	-0.7	103	0.00
88	TP	Bromobenzene	0.756	0.757	-0.1	103	0.00
89	TP	n-Propylbenzene	3.556	3.578	-0.6	100	0.00
90	TP	1,4-Dichlorobutane	0.632	0.670	-6.0	105	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.464	0.489	-5.4	105	0.01
92	TP	4-Ethyltoluene	2.865	3.228	-12.7	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
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)
93 TP	2-Chlorotoluene	2.297	2.386	-3.9	104	0.00
94 TP	1,3,5-Trimethylbenzene	2.447	2.469	-0.9	101	0.00
95 TP	1,2,3-Trichloropropane	0.372	0.390	-4.8	105	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.117	0.119	-1.7	100	0.00
97 TP	4-Chlorotoluene	2.093	2.053	1.9	99	0.01
98 TP	tert-Butylbenzene	2.243	2.249	-0.3	101	0.00
101 TP	1,2,4-Trimethylbenzene	2.450	2.514	-2.6	104	0.00
102 TP	sec-Butylbenzene	3.176	3.321	-4.6	103	0.00
103 TP	p-Isopropyltoluene	2.756	2.801	-1.6	101	0.00
104 TP	1,3-Dichlorobenzene	1.464	1.467	-0.2	102	0.00
105 TP	1,4-Dichlorobenzene	1.446	1.413	2.3	99	0.00
106 TP	p-Diethylbenzene	1.599	1.678	-4.9	106	0.00
107 TP	n-Butylbenzene	2.408	2.460	-2.2	101	0.00
108 TP	1,2-Dichlorobenzene	1.315	1.292	1.7	101	0.00
109 TP	1,2,4,5-Tetramethylbenzene	2.362	2.493	-5.5	108	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.077	0.082	-6.5	106	0.00
111 TP	1,3,5-Trichlorobenzene	1.101	1.109	-0.7	104	0.00
112 TP	Hexachlorobutadiene	0.493	0.476	3.4	98	0.00
113 TP	1,2,4-Trichlorobenzene	0.968	0.963	0.5	102	0.00
114 TP	Naphthalene	1.710	1.729	-1.1	102	0.00
115 TP	1,2,3-Trichlorobenzene	0.872	0.854	2.1	100	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 10 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	173947	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 103.39%			
62) Chlorobenzene-d5	9.658	117	143529	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 102.52%			
83) 1,4-Dichlorobenzene-d4	12.349	152	77346	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 102.25%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	44080	9.805	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.05%			
46) 1,2-Dichloroethane-d4	5.813	65	40923	9.835	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.35%			
63) Toluene-d8	7.807	98	174740	10.128	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.28%			
87) 4-Bromofluorobenzene	11.143	95	67279	10.069	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	39471	11.329	ug/L	99
3) Chloromethane	1.834	50	42981	10.829	ug/L	99
4) Vinyl chloride	1.896	62	53371	10.744	ug/L	99
5) Bromomethane	2.226	94	31938	9.821	ug/L	100
6) Chloroethane	2.350	64	30997	10.374	ug/L	100
7) Trichlorofluoromethane	2.495	101	70166	10.255	ug/L	100
8) Ethyl ether	2.804	74	22369	10.532	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	43231	10.236	ug/L	100
11) Carbon disulfide	3.021	76	114000	10.508	ug/L	100
12) Freon-113	3.042	101	44686	12.100	ug/L	99
13) Iodomethane	3.134	142	39428	7.076	ug/L	99
14) Acrolein	3.330	56	3614	5.873	ug/L	96
15) Methylene chloride	3.557	84	44626	9.915	ug/L	99
17) Acetone	3.609	43	5298	9.745	ug/L	99
18) trans-1,2-Dichloroethene	3.712	96	47542	9.744	ug/L	100
19) Methyl acetate	3.733	43	17195	12.155	ug/L	97
21) Methyl tert-butyl ether	3.815	73	102803	9.852	ug/L	100
22) tert-Butyl alcohol	3.908	59	8706	64.549	ug/L	96
24) Diisopropyl ether	4.187	45	115831	10.209	ug/L	100
25) 1,1-Dichloroethane	4.311	63	78623	10.190	ug/L	99
26) Halothane	4.362	117	38164	10.276	ug/L	100

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.362	53	8192	10.615	ug/L		97
28) Ethyl tert-butyl ether	4.538	59	118639	10.365	ug/L		96
29) Vinyl acetate	4.558	43	66388	9.346	ug/L		98
30) cis-1,2-Dichloroethene	4.826	96	52891	10.104	ug/L		100
31) 2,2-Dichloropropane	4.940	77	59748	8.952	ug/L		100
32) Bromochloromethane	5.023	128	22803	10.348	ug/L		99
33) Cyclohexane	5.033	56	73745	11.393	ug/L		99
34) Chloroform	5.095	83	81846	10.207	ug/L		99
35) Ethyl acetate	5.219	43	23473	10.843	ug/L		99
36) Carbon tetrachloride	5.239	117	66105	10.445	ug/L		100
37) Tetrahydrofuran	5.260	42	7810	9.723	ug/L		98
39) 1,1,1-Trichloroethane	5.301	97	75857	9.952	ug/L		100
41) 2-Butanone	5.404	43	8081	10.170	ug/L		95
42) 1,1-Dichloropropene	5.425	75	63218	10.044	ug/L		99
44) Benzene	5.681	78	186159	9.895	ug/L		100
45) tert-Amyl methyl ether	5.790	73	109303	10.350	ug/L		100
47) 1,2-Dichloroethane	5.883	62	47507	9.729	ug/L		100
50) Methyl cyclohexane	6.264	83	84193	11.444	ug/L		99
51) Trichloroethene	6.272	95	49888	10.262	ug/L		99
53) Dibromomethane	6.716	93	18509	10.221	ug/L		99
54) 1,2-Dichloropropane	6.833	63	41079	10.061	ug/L		99
56) 2-Chloroethyl vinyl ether	7.529	63	19140	9.247	ug/L		100
57) Bromodichloromethane	6.887	83	56828	9.322	ug/L		99
60) 1,4-Dioxane	7.113	88	4271	582.125	ug/L	#	89
61) cis-1,3-Dichloropropene	7.592	75	67887	9.678	ug/L		100
64) Toluene	7.862	92	120625	10.343	ug/L		98
65) 4-Methyl-2-pentanone	8.313	58	8034	9.421	ug/L		99
66) Tetrachloroethene	8.306	166	60736	10.066	ug/L		99
68) trans-1,3-Dichloropropene	8.347	75	57578	9.987	ug/L		99
70) Ethyl methacrylate	8.549	69	42004	10.227	ug/L		99
71) 1,1,2-Trichloroethane	8.535	83	28311	10.263	ug/L		99
72) Chlorodibromomethane	8.743	129	43795	10.065	ug/L		100
73) 1,3-Dichloropropane	8.861	76	58031	10.369	ug/L		100
74) 1,2-Dibromoethane	9.027	107	34704	9.925	ug/L		99
76) 2-Hexanone	9.328	43	12400	10.006	ug/L		100
77) Chlorobenzene	9.680	112	135072	9.958	ug/L		99
78) Ethylbenzene	9.723	91	238733	10.415	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.766	131	49210	10.403	ug/L		99
80) p/m Xylene	9.916	106	186960	20.364	ug/L		100
81) o Xylene	10.455	106	179510	21.309	ug/L		100

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	287778	21.171	ug/L	100
84) Bromoform	10.530	173	29182	9.837	ug/L	100
86) Isopropylbenzene	10.831	105	239600	9.916	ug/L	100
88) Bromobenzene	11.262	156	58584	10.019	ug/L	98
89) n-Propylbenzene	11.305	91	276775	10.062	ug/L	99
90) 1,4-Dichlorobutane	11.326	55	51804	10.603	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.391	83	37840	10.549	ug/L	98
92) 4-Ethyltoluene	11.434	105	249652	11.265	ug/L	99
93) 2-Chlorotoluene	11.466	91	184534	10.386	ug/L	100
94) 1,3,5-Trimethylbenzene	11.531	105	190980	10.090	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	30135	10.466	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.585	53	9172	10.145	ug/L	98
97) 4-Chlorotoluene	11.660	91	158766	9.810	ug/L	100
98) tert-Butylbenzene	11.870	119	173960	10.027	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	194444	10.261	ug/L	100
102) sec-Butylbenzene	12.062	105	256832	10.456	ug/L	100
103) p-Isopropyltoluene	12.217	119	216655	10.163	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	113496	10.024	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	109260	9.768	ug/L	100
106) p-Diethylbenzene	12.585	119	129760	10.494	ug/L	99
107) n-Butylbenzene	12.644	91	190246	10.213	ug/L	99
108) 1,2-Dichlorobenzene	12.792	146	99893	9.820	ug/L	99
109) 1,2,4,5-Tetramethylben...	13.382	119	192804	10.553	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.567	155	6335	10.692	ug/L	98
111) 1,3,5-Trichlorobenzene	13.604	180	85771	10.070	ug/L	100
112) Hexachlorobutadiene	14.179	225	36847	9.665	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	74504	9.948	ug/L	100
114) Naphthalene	14.496	128	133744	10.109	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	66023	9.792	ug/L	99

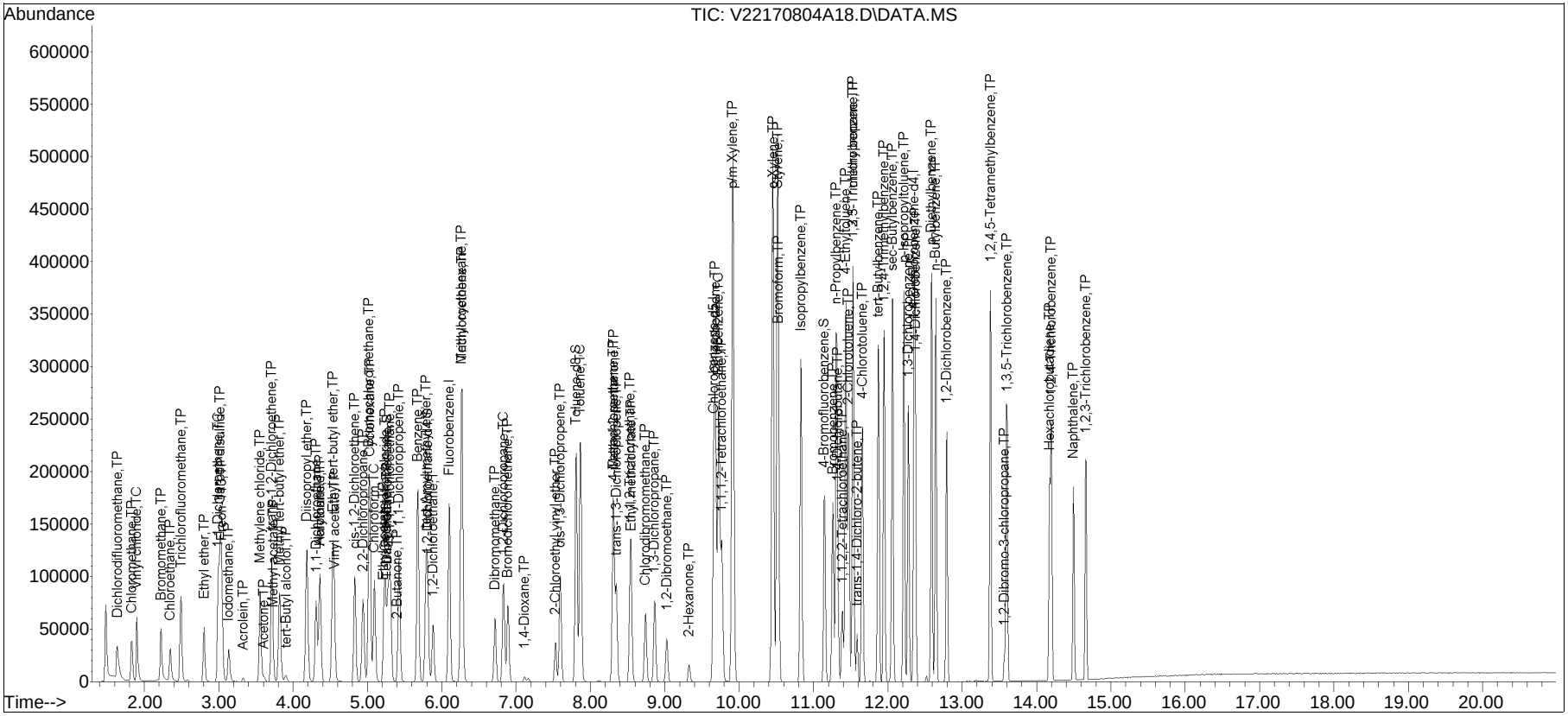
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A18.D
Acq On : 05 Aug 2017 03:34
Operator : VOA122:MAB
Sample : CSTDL3
Misc : WG1029271,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1	QMethod	: V122_170804A_8260.m
Data File	: V22170804A18.D	Operator	: VOA122:MAB
Date Inj'd	: 8/5/2017 3:34	Instrument	: VOA122
Sample	: CSTDL3	Quant Date	: 8/5/2017 11:45 am

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

Response Factor Report VOA 101

Method Path : I:\VOLATILES\VOA101\2017\170928A\
Method File : V101_170928_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Sep 30 14:27:05 2017
Response Via : Initial Calibration

Calibration Files
L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D
L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	T	Dichlorodifluo...		0.173	0.211	0.209	0.218	0.212	0.216	0.212	0.207	7.34
3)	T	Chloromethane		0.345	0.380	0.354	0.369	0.360	0.366	0.363	0.362	3.08
4)	C	Vinyl chloride	0.275	0.250	0.312	0.299	0.313	0.307	0.309	0.302	0.296	7.49
5)	T	Bromomethane		0.081	0.086	0.085	0.095	0.103	0.110	0.110	0.096	12.89
6)	T	Chloroethane		0.119	0.132	0.122	0.125	0.116	0.110	0.080	0.115	14.63
7)	T	Trichlorofluor...		0.258	0.313	0.307	0.325	0.317	0.319	0.315	0.308	7.30
8)	T	Ethyl ether		0.064	0.069	0.071	0.073	0.071	0.070	0.067	0.069	4.25
10)	C	1,1-Dichloroet...		0.151	0.182	0.176	0.185	0.180	0.180	0.175	0.175	6.51
11)	T	Carbon disulfide		0.574	0.569	0.545	0.553	0.524	0.534	0.519	0.546	3.91
12)	T	Freon-113		0.149	0.182	0.182	0.190	0.184	0.184	0.178	0.178	7.54
13)	T	Iodomethane		0.141	0.214	0.236	0.269	0.271	0.269	0.247	0.235	19.81
14)	T	Acrolein			0.019	0.018	0.019	0.020	0.019	0.018	0.019	3.05
15)	T	Methylene chlo...		0.188	0.190	0.184	0.191	0.189	0.189	0.184	0.188	1.42
16)	T	Isopropyl alcohol			0.006	0.006	0.005	0.005	0.005	0.005	0.005	13.65
17)	T	Acetone		0.146	0.048	0.025	0.024	0.023	0.024	0.024	*L	0.9987
18)	T	trans-1,2-Dich...		0.180	0.211	0.199	0.210	0.205	0.209	0.204	0.203	5.29
19)	T	Methyl acetate		0.089	0.047	0.054	0.059	0.058	0.059	0.058	*L	0.9994
20)	T	Methyl tert-bu...		0.317	0.324	0.327	0.338	0.333	0.329	0.318	0.327	2.38
21)	T	tert-Butyl alc...		0.008	0.007	0.006	0.006	0.006	0.007	0.006	0.007	8.47
22)	T	Diisopropyl ether		0.701	0.729	0.728	0.762	0.744	0.736	0.705	0.729	2.92
23)	T	1,1-Dichloroet...		0.397	0.460	0.434	0.457	0.449	0.455	0.444	0.442	4.88
24)	T	Halothane		0.134	0.148	0.144	0.153	0.151	0.154	0.150	0.147	4.66
25)	T	Acrylonitrile			0.027	0.033	0.037	0.038	0.038	0.036	0.035	12.68
26)	T	Ethyl tert-but...		0.496	0.526	0.528	0.547	0.541	0.531	0.512	0.526	3.27
27)	T	Vinyl acetate			0.297	0.336	0.364	0.365	0.359	0.329	0.342	7.73
28)	T	cis-1,2-Dichlo...		0.196	0.219	0.214	0.219	0.217	0.221	0.214	0.214	3.99
29)	T	2,2-Dichloropr...		0.283	0.324	0.306	0.320	0.314	0.318	0.309	0.311	4.37
30)	T	Bromochloromet...		0.066	0.072	0.075	0.078	0.076	0.074	0.065	0.072	6.89
31)	T	Cyclohexane		0.401	0.489	0.487	0.511	0.497	0.499	0.478	0.480	7.60
32)	C	Chloroform		0.311	0.344	0.333	0.349	0.348	0.349	0.338	0.339	4.02

Method Path : I:\VOLATILES\VOA101\2017\170928A\
Method File : V101_170928_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Sep 30 14:27:05 2017
Response Via : Initial Calibration

Calibration Files
L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D
L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
33)	T	Ethyl acetate		0.087	0.092	0.099	0.100	0.099	0.094	0.095		5.39
34)	T	Carbon tetrach...		0.231	0.278	0.274	0.293	0.294	0.301	0.296	0.281	8.57
35)	T	Tetrahydrofuran		0.052	0.040	0.032	0.034	0.033	0.033	0.032	0.037	19.48
36)	S	Dibromofluorom...	0.235	0.233	0.234	0.234	0.238	0.235	0.231	0.231	0.234	1.06
37)	T	1,1,1-Trichlor...		0.274	0.324	0.316	0.332	0.332	0.338	0.331	0.321	6.78
38)	T	2-Butanol			0.009	0.006	0.006	0.006	0.006	0.006	0.006	18.52
39)	T	2-Butanone			0.042	0.032	0.037	0.038	0.038	0.037	0.038	7.87
40)	T	1,1-Dichloropr...		0.248	0.309	0.301	0.319	0.317	0.320	0.311	0.304	8.33
41)	T	Benzene		0.820	0.874	0.831	0.871	0.860	0.864	0.835	0.851	2.52
42)	T	tert-Amyl meth...		0.340	0.356	0.348	0.366	0.363	0.356	0.340	0.353	2.96
43)	S	1,2-Dichloroet...	0.234	0.232	0.230	0.231	0.230	0.232	0.228	0.228	0.230	0.88
44)	T	1,2-Dichloroet...		0.197	0.212	0.212	0.221	0.220	0.217	0.210	0.213	3.87
45)	T	Isobutyl alcohol			0.004	0.002	0.002	0.002	0.002	0.002	*L	0.9974
46)	T	2-Methyl-2-but...		0.005	0.007	0.007	0.006	0.006	0.006	0.005	0.006	13.30
47)	T	Methyl cyclohe...		0.281	0.351	0.365	0.381	0.372	0.372	0.355	0.354	9.59
48)	T	Trichloroethene		0.208	0.223	0.205	0.220	0.217	0.217	0.207	0.214	3.29
49)	T	n-Butanol		0.020	0.024	0.024	0.025	0.025	0.024	0.023	0.024	7.80
50)	T	Dibromomethane		0.062	0.074	0.077	0.082	0.082	0.082	0.079	0.077	9.46
51)	C	1,2-Dichloropr...		0.210	0.232	0.233	0.243	0.243	0.243	0.235	0.234	5.04
52)	T	4-penten-2-ol			0.001	0.004	0.004	0.005	0.005	0.005	*L	0.9949
53)	T	2-Chloroethyl ...			0.049	0.059	0.065	0.062	0.061	0.060	0.059	9.48
54)	T	Bromodichlorom...		0.214	0.232	0.229	0.246	0.250	0.251	0.246	0.238	5.70
57)	T	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.61
58)	T	cis-1,3-Dichlo...		0.246	0.272	0.287	0.306	0.309	0.309	0.301	0.290	8.18
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.378	1.398	1.401	1.381	1.379	1.377	1.401	1.408	1.391	0.91
61)	C	Toluene		0.714	0.783	0.732	0.764	0.748	0.768	0.738	0.749	3.17
62)	T	4-Methyl-2-pen...			0.041	0.048	0.051	0.051	0.051	0.048	0.048	8.17
63)	T	Tetrachloroethene		0.246	0.301	0.284	0.299	0.294	0.302	0.292	0.288	6.81
65)	T	trans-1,3-Dich...		0.249	0.277	0.305	0.327	0.332	0.339	0.329	0.308	10.93
66)	T	4-Methyl-2-pen...			0.021	0.022	0.020	0.021	0.023	0.022	0.022	4.86

Method Path : I:\VOLATILES\VOA101\2017\170928A\
Method File : V101_170928_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Sep 30 14:27:05 2017
Response Via : Initial Calibration

Calibration Files
L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D
L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
67)	T	Ethyl methacry...		0.162	0.166	0.180	0.198	0.199	0.202	0.193	0.186	8.96
68)	T	1,1,2-Trichlor...		0.114	0.133	0.135	0.139	0.137	0.138	0.132	0.133	6.41
69)	T	Chlorodibromom...		0.152	0.172	0.180	0.194	0.199	0.205	0.201	0.186	10.37
70)	T	1,3-Dichloropr...		0.261	0.281	0.291	0.303	0.303	0.307	0.298	0.292	5.55
71)	T	1,2-Dibromoethane		0.109	0.140	0.145	0.152	0.153	0.156	0.152	0.144	11.35
72)	T	2-Hexanone			0.081	0.070	0.077	0.081	0.084	0.082	0.079	6.43
73)	T	Chlorobenzene		0.738	0.807	0.765	0.793	0.790	0.808	0.775	0.783	3.20
74)	C	Ethylbenzene		1.264	1.473	1.402	1.455	1.443	1.484	1.411	1.419	5.26
75)	T	1,1,1,2-Tetrac...		0.230	0.241	0.239	0.254	0.258	0.263	0.252	0.248	4.76
76)	T	p/m Xylene		0.492	0.571	0.549	0.568	0.558	0.559	0.510	0.544	5.66
77)	T	o Xylene		0.460	0.514	0.495	0.515	0.500	0.500	0.459	0.492	4.76
78)	T	Styrene		0.680	0.770	0.772	0.812	0.802	0.794	0.719	0.764	6.29
79)	I	1,4-Dichlorobenzene-d4	ISTD									
80)	T	Bromoform		0.112	0.168	0.176	0.190	0.198	0.204	0.201	0.179	17.96
82)	T	Isopropylbenzene		2.802	3.235	3.139	3.240	3.250	3.363	3.311	3.191	5.81
83)	S	4-Bromofluorob...	1.114	1.100	1.112	1.106	1.096	1.120	1.135	1.188	1.121	2.65
84)	T	Bromobenzene		0.534	0.557	0.551	0.571	0.573	0.590	0.589	0.567	3.60
85)	T	n-Propylbenzene		3.205	3.728	3.638	3.758	3.748	3.872	3.806	3.679	6.01
86)	T	1,4-Dichlorobu...		0.731	0.716	0.699	0.714	0.719	0.726	0.710	0.716	1.46
87)	T	1,1,2,2-Tetrac...		0.328	0.327	0.322	0.332	0.331	0.337	0.330	0.330	1.40
88)	T	4-Ethyltoluene		2.569	2.964	2.892	3.020	3.023	3.131	3.048	2.949	6.21
89)	T	2-Chlorotoluene		1.992	2.186	2.013	2.138	2.149	2.179	2.165	2.117	3.80
90)	T	1,3,5-Trimethy...		2.438	2.492	2.457	2.555	2.535	2.589	2.497	2.509	2.15
91)	T	1,2,3-Trichlor...		0.340	0.284	0.271	0.259	0.265	0.266	0.254	0.277	10.66
92)	T	trans-1,4-Dich...		0.061	0.106	0.092	0.107	0.111	0.113	0.113	0.101	18.84
93)	T	4-Chlorotoluene		1.987	2.098	2.076	2.180	2.189	2.252	2.203	2.141	4.25
94)	T	tert-Butylbenzene		1.863	2.127	2.070	2.155	2.130	2.207	2.159	2.102	5.38
97)	T	1,2,4-Trimethy...		2.231	2.468	2.406	2.506	2.508	2.589	2.509	2.460	4.67
98)	T	sec-Butylbenzene		2.595	2.957	2.935	3.051	3.025	3.140	3.059	2.966	5.97
99)	T	p-Isopropyltol...		2.133	2.446	2.403	2.531	2.518	2.599	2.523	2.450	6.26
100)	T	1,3-Dichlorobe...		1.070	1.116	1.121	1.183	1.188	1.215	1.184	1.154	4.50

Method Path : I:\VOLATILES\VOA101\2017\170928A\
Method File : V101_170928_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Sep 30 14:27:05 2017
Response Via : Initial Calibration

Calibration Files
L11 =V01170928A03.D L1 =V01170928A05.D L2 =V01170928A07.D L3 =V01170928A08.D L4 =V01170928A09.D
L6 =V01170928A10.D L8 =V01170928A11.D L10 =V01170928A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
101) T	1,4-Dichlorobe...	1.141	1.117	1.099	1.169	1.163	1.191	1.152	1.147	2.73	
102) T	p-Diethylbenzene	1.098	1.318	1.325	1.397	1.406	1.471	1.429	1.349	9.13	
103) T	n-Butylbenzene	1.794	2.011	2.039	2.148	2.162	2.257	2.199	2.087	7.44	
104) T	1,2-Dichlorobe...	0.944	0.955	0.926	0.971	0.977	0.990	0.965	0.961	2.24	
105) T	1,2,4,5-Tetram...	1.691	1.854	1.830	1.915	1.912	1.985	1.966	1.879	5.31	
106) T	1,2-Dibromo-3-...		0.029	0.034	0.037	0.038	0.040	0.039	0.036	11.84	
107) T	1,3,5-Trichlor...	0.513	0.588	0.581	0.614	0.606	0.633	0.629	0.595	6.89	
108) T	Hexachlorobuta...	0.182	0.207	0.183	0.194	0.193	0.219	0.223	0.200	8.17	
109) T	1,2,4-Trichlor...	0.409	0.437	0.440	0.459	0.454	0.471	0.474	0.449	5.04	
110) T	Naphthalene	0.788	0.758	0.717	0.757	0.767	0.775	0.785	0.764	3.13	
111) T	1,2,3-Trichlor...	0.305	0.302	0.291	0.309	0.302	0.311	0.314	0.305	2.46	

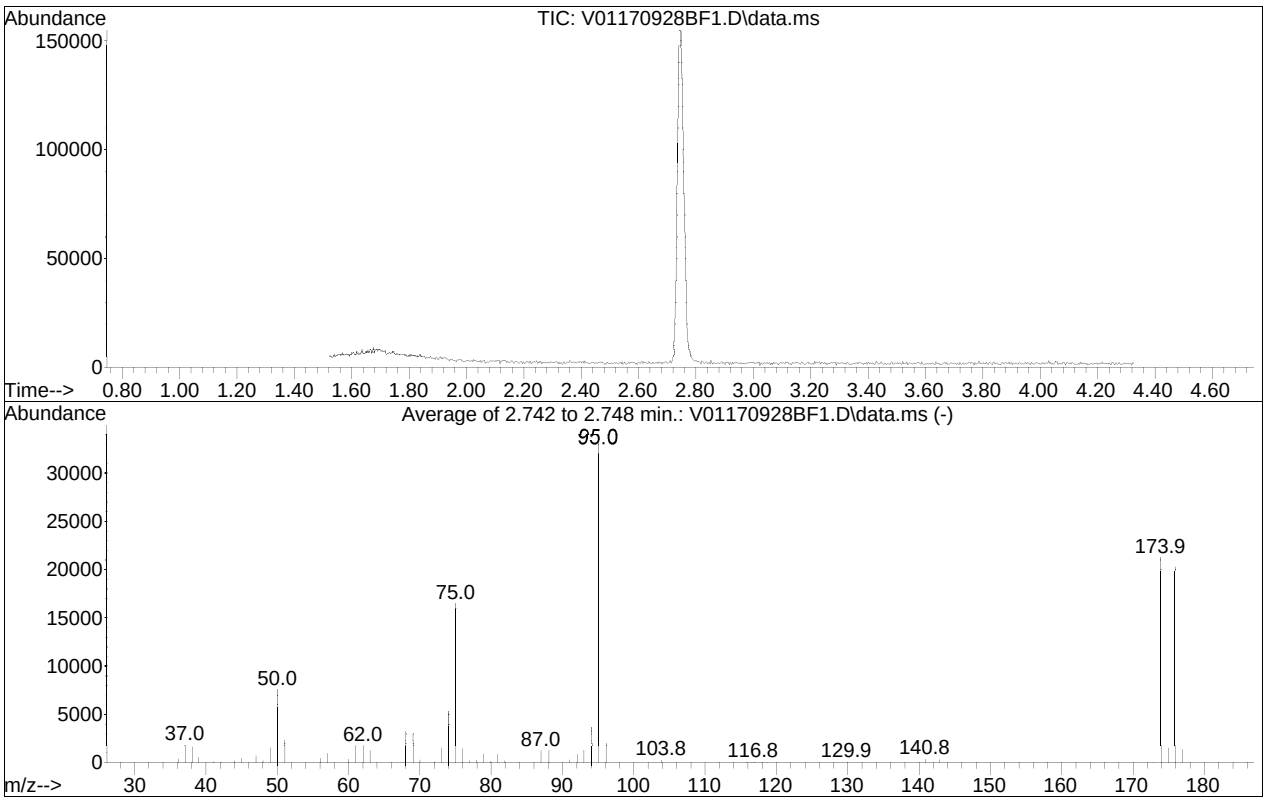
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928BF1.D
Acq On : 28 Sep 2017 8:05 pm
Operator : VOA101:MAB
Sample : WG1047540-1
Misc : WG1047540
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Sep 30 14:27:05 2017



AutoFind: Scans 422, 423, 424; Background Corrected with Scan 410

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	7608	PASS
75	95	30	60	49.5	16475	PASS
95	95	100	100	100.0	33280	PASS
96	95	5	9	6.0	2008	PASS
173	174	0.00	2	0.4	86	PASS
174	95	50	100	63.8	21248	PASS
175	174	5	9	7.0	1480	PASS
176	174	95	101	95.6	20312	PASS
177	176	5	9	6.6	1334	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A03.D
Acq On : 28 Sep 2017 9:33 pm
Operator : VOA101:MAB
Sample : I8260 L11
Misc : WG1047540
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 14:46:40 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.874	96	481724	10.000	ug/L	0.00
Standard Area 1 = 495996			Recovery = 97.12%			
59) Chlorobenzene-d5	9.677	117	342974	10.000	ug/L	0.00
Standard Area 1 = 352256			Recovery = 97.36%			
79) 1,4-Dichlorobenzene-d4	12.602	152	152790	10.000	ug/L	0.00
Standard Area 1 = 159281			Recovery = 95.92%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.028	113	113443	10.064	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.64%			
43) 1,2-Dichloroethane-d4	5.579	65	112520	10.136	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.36%			
60) Toluene-d8	7.680	98	472688	9.912	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.12%			
83) 4-Bromofluorobenzene	11.276	95	170205	9.934	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.34%			
Target Compounds						Qvalue
4) Vinyl chloride	1.754	62	2648	0.186	ug/L #	64
34) Carbon tetrachloride	4.979	117	2284	0.169	ug/L #	89
41) Benzene	5.437	78	8344	0.204	ug/L	92
44) 1,2-Dichloroethane	5.656	62	1742	0.170	ug/L #	92
48) Trichloroethene	6.076	95	2231	0.216	ug/L #	83

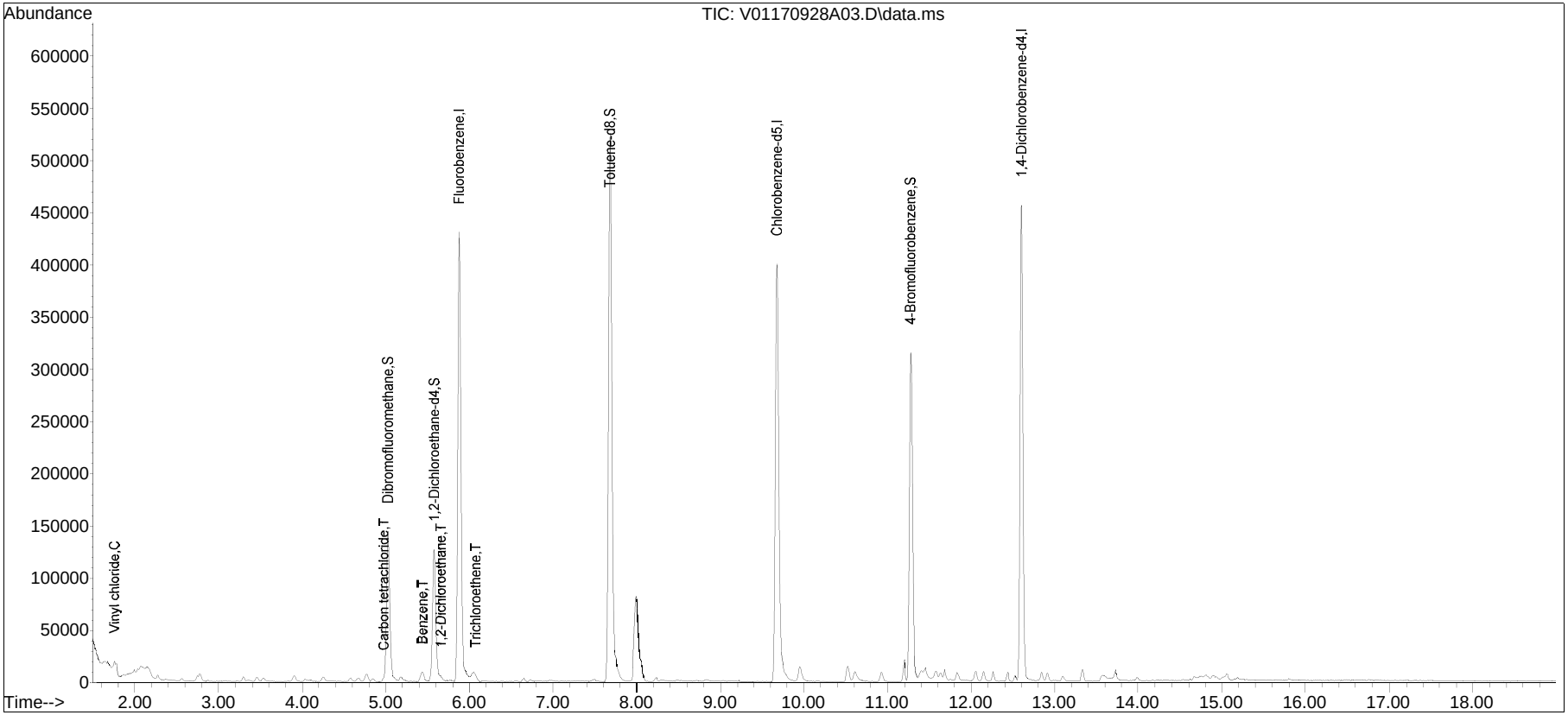
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A03.D
Acq On : 28 Sep 2017 9:33 pm
Operator : VOA101:MAB
Sample : I8260 L11
Misc : WG1047540
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 14:46:40 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product170928A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1Q	Method	: V101_170928_8260.m
Data File	: V01170928A03.D	Operator	: VOA101:MAB
Date Inj'd	: 9/28/2017 9:33 pm	Instrument	: VOA 101
Sample	: I8260 L11	Quant Date	: 9/30/2017 2:46 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A05.D
Acq On : 28 Sep 2017 10:29 pm
Operator : VOA101:MAB
Sample : I8260 L1
Misc : WG1047540
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 14:46:49 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.874	96	474997	10.000 ug/L	0.00
Standard Area 1 = 495996			Recovery = 95.77%		
59) Chlorobenzene-d5	9.677	117	333463	10.000 ug/L	0.00
Standard Area 1 = 352256			Recovery = 94.66%		
79) 1,4-Dichlorobenzene-d4	12.602	152	150881	10.000 ug/L	0.00
Standard Area 1 = 159281			Recovery = 94.73%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.028	113	110690	9.959 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%		
43) 1,2-Dichloroethane-d4	5.579	65	110105	10.058 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.58%		
60) Toluene-d8	7.680	98	466614	10.063 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.63%		
83) 4-Bromofluorobenzene	11.276	95	165915	9.807 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.07%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.503	85	4119M2	0.418 ug/L	
3) Chloromethane	1.678	50	8189	0.476 ug/L	96
4) Vinyl chloride	1.749	62	5934	0.422 ug/L	81
5) Bromomethane	2.038	94	1924	0.423 ug/L	94
6) Chloroethane	2.142	64	2815	0.517 ug/L	93
7) Trichlorofluoromethane	2.278	101	6137	0.420 ug/L #	80
8) Ethyl ether	2.556	74	1528	0.463 ug/L #	58
10) 1,1-Dichloroethene	2.747	96	3582	0.430 ug/L #	68
11) Carbon disulfide	2.775	76	13643	0.526 ug/L	97
12) Freon-113	2.786	101	3541	0.418 ug/L	96
13) Iodomethane	2.878	142	3350	0.300 ug/L	92
14) Acrolein	0.000		0	N.D. d	
15) Methylene chloride	3.293	84	4468	0.501 ug/L	79
16) Isopropyl alcohol	0.000		0	N.D. d	
17) Acetone	3.353	43	3478	0.677 ug/L #	77
18) trans-1,2-Dichloroethene	3.451	96	4282	0.445 ug/L	79
19) Methyl acetate	3.484	43	2104M1	0.654 ug/L	
20) Methyl tert-butyl ether	3.539	73	7519	0.485 ug/L #	76
21) tert-Butyl alcohol	3.637	59	926	2.881 ug/L #	68
22) Diisopropyl ether	3.899	45	16640	0.480 ug/L	94
23) 1,1-Dichloroethane	4.040	63	9438	0.449 ug/L	95

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A05.D
Acq On : 28 Sep 2017 10:29 pm
Operator : VOA101:MAB
Sample : I8260 L1
Misc : WG1047540
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 14:46:49 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Halothane	4.095	117	3174	0.453 ug/L	92
25) Acrylonitrile	0.000		0	N.D. d	
26) Ethyl tert-butyl ether	4.253	59	11786	0.472 ug/L #	64
27) Vinyl acetate	0.000		0	N.D. d	
28) cis-1,2-Dichloroethene	4.570	96	4652	0.457 ug/L #	82
29) 2,2-Dichloropropane	4.668	77	6729	0.456 ug/L	81
30) Bromochloromethane	4.772	128	1561	0.456 ug/L #	73
31) Cyclohexane	4.761	56	9523	0.417 ug/L	74
32) Chloroform	4.843	83	7392	0.459 ug/L	99
33) Ethyl acetate	0.000		0	N.D. d	
34) Carbon tetrachloride	4.974	117	5485	0.411 ug/L	97
35) Tetrahydrofuran	5.001	42	1224	0.704 ug/L #	45
37) 1,1,1-Trichloroethane	5.044	97	6514	0.427 ug/L	94
38) 2-Butanol	0.000		0	N.D. d	
39) 2-Butanone	0.000		0	N.D. d	
40) 1,1-Dichloropropene	5.181	75	5897	0.409 ug/L	95
41) Benzene	5.437	78	19474	0.482 ug/L #	93
42) tert-Amyl methyl ether	5.546	73	8066	0.481 ug/L #	83
44) 1,2-Dichloroethane	5.661	62	4667	0.462 ug/L	95
45) Isobutyl alcohol	0.000		0	N.D. d	
46) 2-Methyl-2-butanol	5.776	59	564	2.017 ug/L #	17
47) Methyl cyclohexane	6.043	83	6662	0.397 ug/L #	54
48) Trichloroethene	6.076	95	4935	0.485 ug/L	96
49) n-Butanol	6.043	56	2331	2.085 ug/L #	91
50) Dibromomethane	6.545	93	1467	0.402 ug/L	96
51) 1,2-Dichloropropane	6.649	63	4985	0.448 ug/L #	91
52) 4-penten-2-ol	0.000		0	N.D.	
53) 2-Chloroethyl vinyl ether	0.000		0	N.D. d	
54) Bromodichloromethane	6.725	83	5089	0.450 ug/L #	95
57) 1,4-Dioxane	6.960	88	3532	96.022 ug/L #	76
58) cis-1,3-Dichloropropene	7.478	75	5840	0.424 ug/L #	87
61) Toluene	7.751	92	11906	0.476 ug/L	98
62) 4-Methyl-2-pentanone	8.242	58	419	0.260 ug/L #	1
63) Tetrachloroethene	8.231	166	4104	0.427 ug/L	91
65) trans-1,3-Dichloropropene	8.302	75	4151	0.404 ug/L	97
66) 4-Methyl-2-pentanol	0.000		0	N.D. d	
67) Ethyl methacrylate	8.515	69	2694M1	0.435 ug/L	
68) 1,1,2-Trichloroethane	8.482	83	1909	0.431 ug/L	93
69) Chlorodibromomethane	8.711	129	2531	0.407 ug/L	87
70) 1,3-Dichloropropane	8.826	76	4354	0.447 ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A05.D
Acq On : 28 Sep 2017 10:29 pm
Operator : VOA101:MAB
Sample : I8260 L1
Misc : WG1047540
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 14:46:49 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71) 1,2-Dibromoethane	9.022	107	1815	0.379	ug/L		98
72) 2-Hexanone	0.000		0	N.D.	d		
73) Chlorobenzene	9.699	112	12309	0.472	ug/L	#	76
74) Ethylbenzene	9.742	91	21074	0.445	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.792	131	3828	0.463	ug/L	#	64
76) p/m Xylene	9.950	106	16390	0.904	ug/L		93
77) o Xylene	10.523	106	15338	0.935	ug/L		90
78) Styrene	10.605	104	22664	0.889	ug/L		92
80) Bromoform	10.632	173	847	0.314	ug/L		92
82) Isopropylbenzene	10.926	105	21135	0.439	ug/L		99
84) Bromobenzene	11.396	156	4029	0.471	ug/L		100
85) n-Propylbenzene	11.445	91	24177	0.436	ug/L		99
86) 1,4-Dichlorobutane	11.478	55	5514	0.510	ug/L	#	87
87) 1,1,2,2-Tetrachloroethane	11.543	83	2475	0.498	ug/L	#	96
88) 4-Ethyltoluene	11.587	105	19381	0.436	ug/L		98
89) 2-Chlorotoluene	11.630	91	15024M1	0.470	ug/L		
90) 1,3,5-Trimethylbenzene	11.685	105	18391	0.486	ug/L		96
91) 1,2,3-Trichloropropane	11.701	75	2568	0.614	ug/L	#	73
92) trans-1,4-Dichloro-2-b...	11.767	53	459	0.302	ug/L	#	37
93) 4-Chlorotoluene	11.838	91	14990	0.464	ug/L		98
94) tert-Butylbenzene	12.056	119	14056	0.443	ug/L		96
97) 1,2,4-Trimethylbenzene	12.143	105	16829	0.453	ug/L		99
98) sec-Butylbenzene	12.263	105	19575	0.437	ug/L		98
99) p-Isopropyltoluene	12.432	119	16092	0.435	ug/L		98
100) 1,3-Dichlorobenzene	12.520	146	8070	0.464	ug/L		98
101) 1,4-Dichlorobenzene	12.618	146	8611M3	0.497	ug/L		
102) p-Diethylbenzene	12.847	119	8286	0.407	ug/L		99
103) n-Butylbenzene	12.913	91	13531	0.430	ug/L		97
104) 1,2-Dichlorobenzene	13.098	146	7122	0.491	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.726	119	12756	0.450	ug/L		99
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
107) 1,3,5-Trichlorobenzene	13.993	180	3868	0.431	ug/L		96
108) Hexachlorobutadiene	14.615	225	1375	0.455	ug/L		97
109) 1,2,4-Trichlorobenzene	14.670	180	3087	0.456	ug/L		96
110) Naphthalene	14.997	128	5948	0.516	ug/L		100
111) 1,2,3-Trichlorobenzene	15.177	180	2302	0.501	ug/L		95

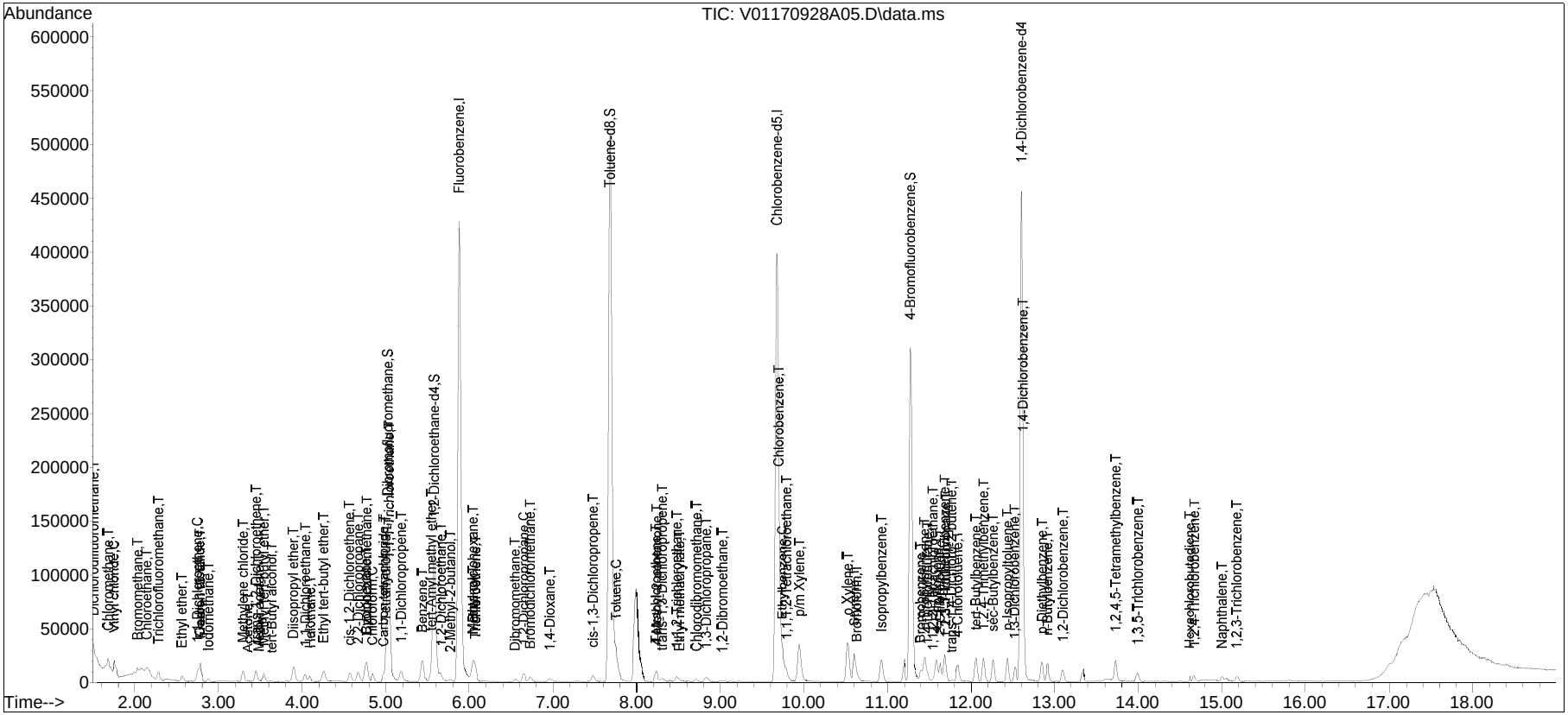
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A05.D
Acq On : 28 Sep 2017 10:29 pm
Operator : VOA101:MAB
Sample : I8260 L1
Misc : WG1047540
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 14:46:49 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

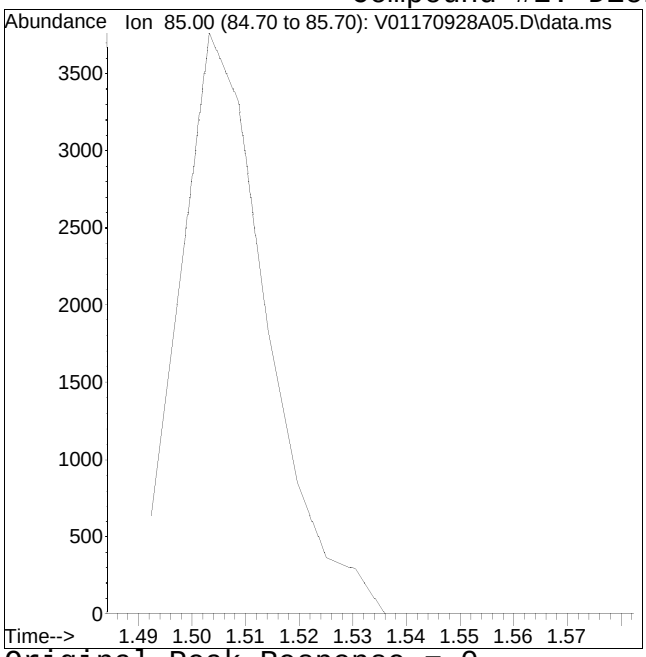
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•



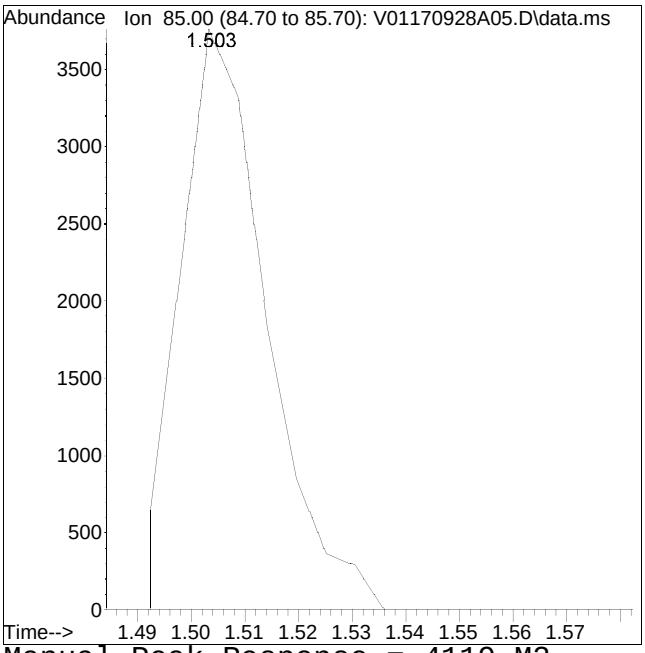
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A05.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 10:29 pm Instrument : VOA 101
Sample : I8260 L1 Quant Date : 9/30/2017 2:46 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 0



Manual Peak Response = 4119 M2

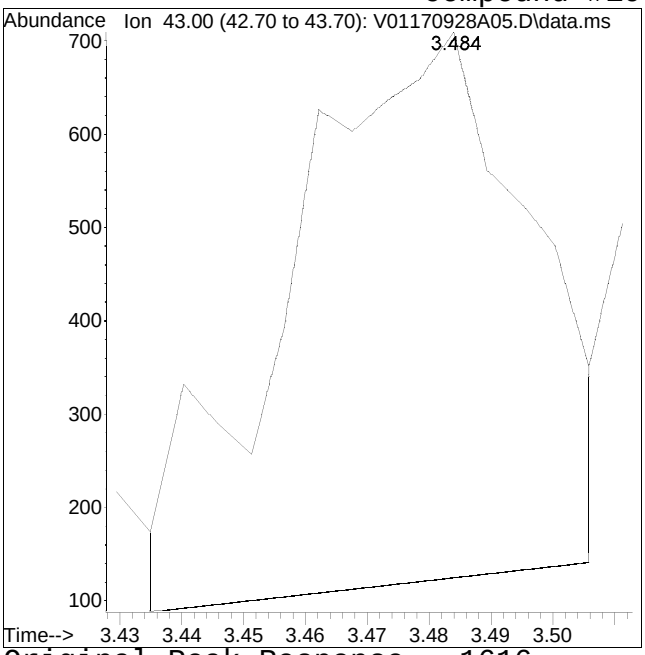
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

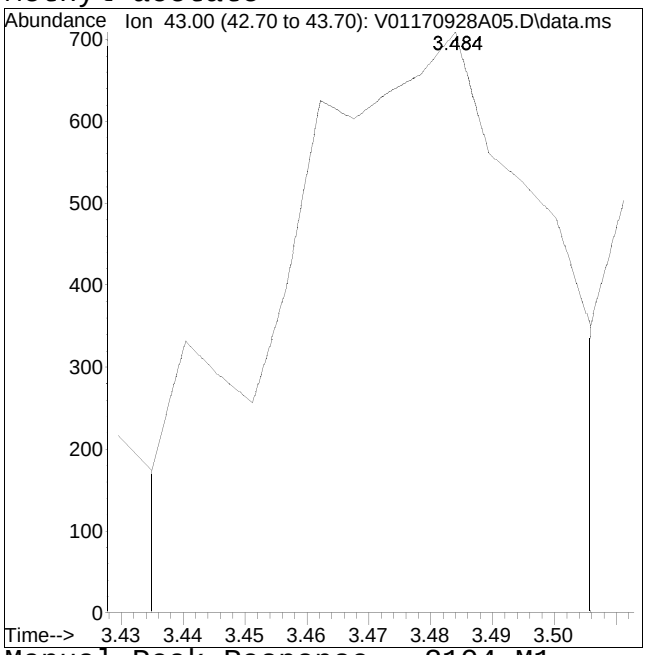
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01170928A05.D
Date Inj'd : 9/28/2017 10:29 pm
Sample : I8260 L1

Method : V101_170928_8260.m
Operator : VOA101:MAB
Instrument : VOA 101
Quant Date : 9/30/2017 2:46 pm

Compound #19: Methyl acetate



Original Peak Response = 1616



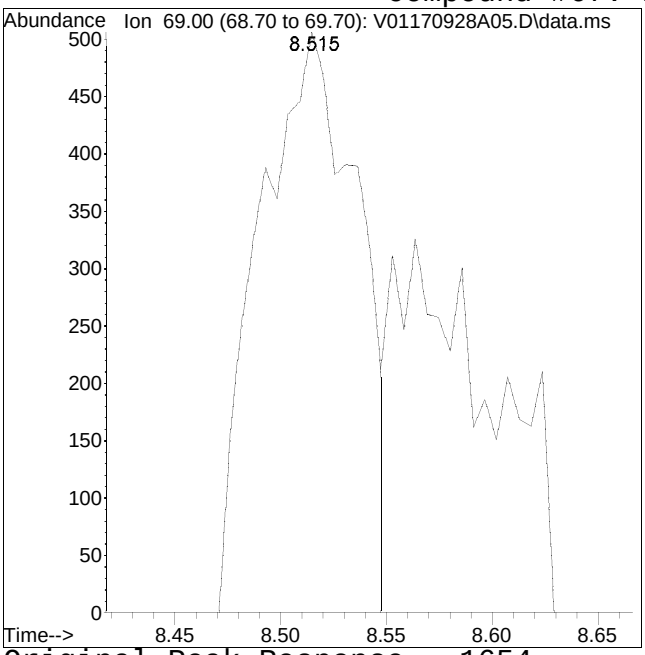
Manual Peak Response = 2104 M1

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

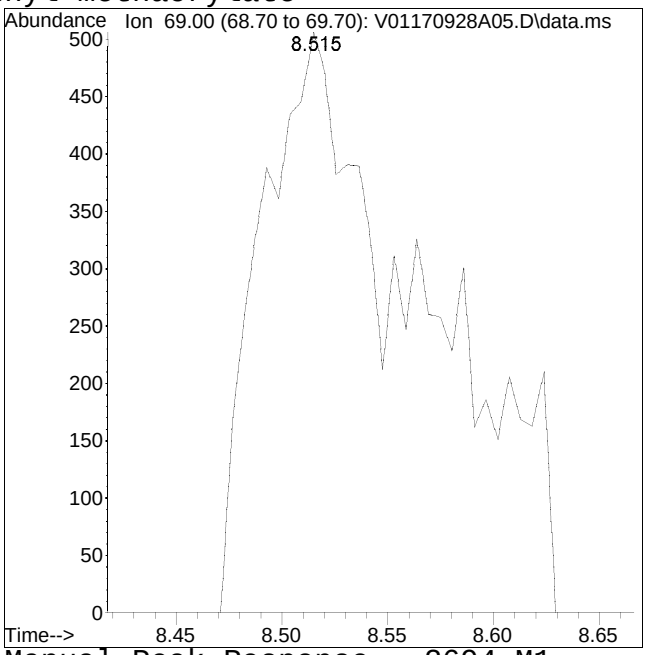
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A05.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 10:29 pm Instrument : VOA 101
Sample : I8260 L1 Quant Date : 9/30/2017 2:46 pm

Compound #67: Ethyl methacrylate



Original Peak Response = 1654



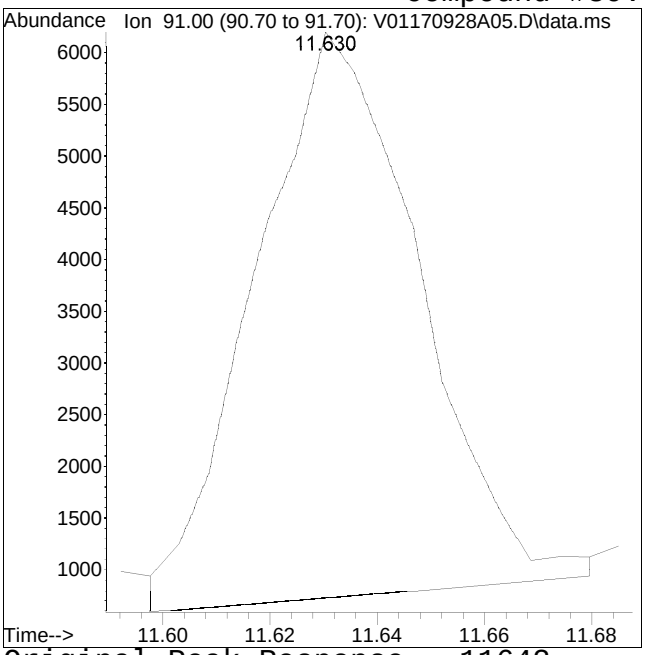
Manual Peak Response = 2694 M1

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

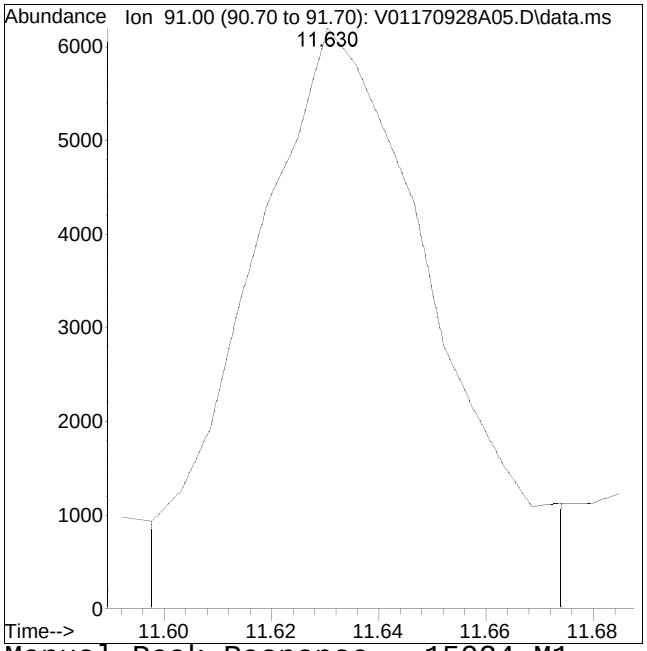
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A05.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 10:29 pm Instrument : VOA 101
Sample : I8260 L1 Quant Date : 9/30/2017 2:46 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 11642



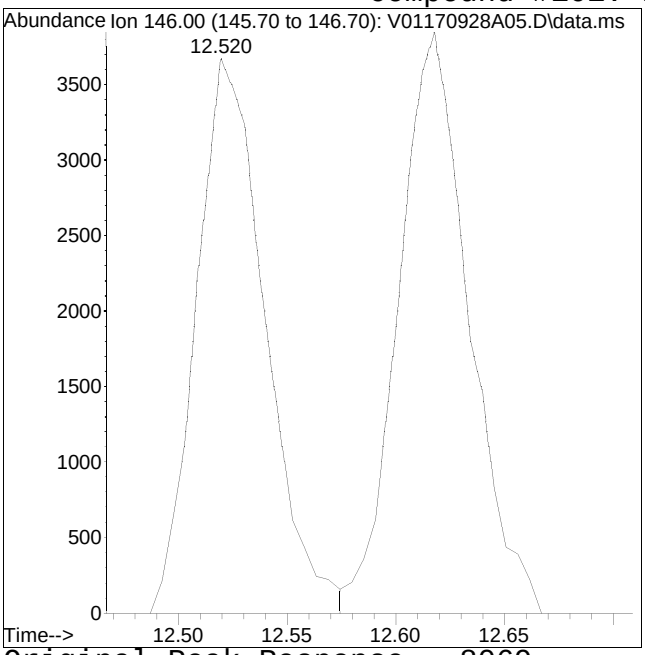
Manual Peak Response = 15024 M1

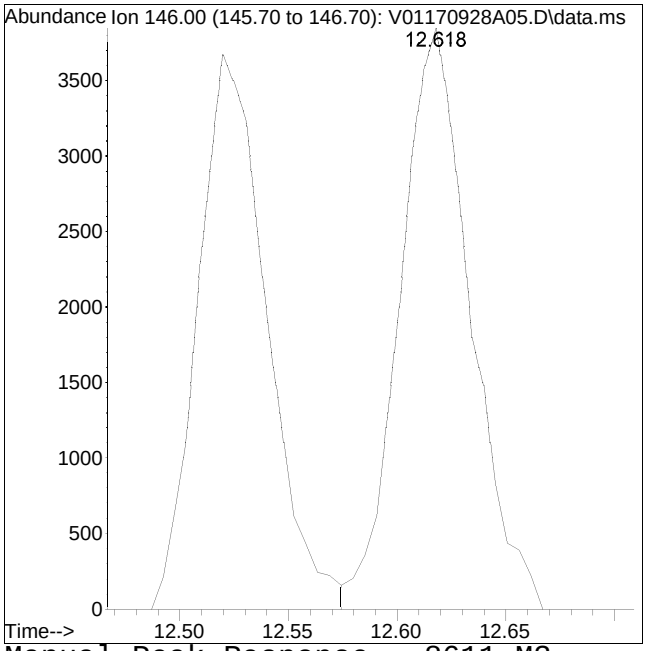
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A05.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 10:29 pm Instrument : VOA 101
Sample : I8260 L1 Quant Date : 9/30/2017 2:46 pm

Compound #101: 1,4-Dichlorobenzene





Original Peak Response = 8069 Manual Peak Response = 8611 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A07.D
Acq On : 28 Sep 2017 11:26 pm
Operator : VOA101:MAB
Sample : I8260 L2
Misc : WG1047540
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 30 14:46:58 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.874	96	480802	10.000	ug/L	0.00
Standard Area 1 = 495996			Recovery = 96.94%			
59) Chlorobenzene-d5	9.677	117	334275	10.000	ug/L	0.00
Standard Area 1 = 352256			Recovery = 94.90%			
79) 1,4-Dichlorobenzene-d4	12.601	152	151176	10.000	ug/L	0.00
Standard Area 1 = 159281			Recovery = 94.91%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.028	113	112708	10.018	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.18%			
43) 1,2-Dichloroethane-d4	5.579	65	110732	9.994	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.94%			
60) Toluene-d8	7.680	98	468861	10.087	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.87%			
83) 4-Bromofluorobenzene	11.281	95	168055	9.914	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.503	85	20330M1	2.040	ug/L	
3) Chloromethane	1.678	50	36531	2.097	ug/L	98
4) Vinyl chloride	1.754	62	29999	2.109	ug/L	96
5) Bromomethane	2.038	94	8254	1.793	ug/L	100
6) Chloroethane	2.147	64	12707	2.304	ug/L	94
7) Trichlorofluoromethane	2.278	101	30118	2.035	ug/L	96
8) Ethyl ether	2.562	74	6679	2.001	ug/L #	65
10) 1,1-Dichloroethene	2.747	96	17455	2.069	ug/L #	73
11) Carbon disulfide	2.780	76	54749	2.087	ug/L	99
12) Freon-113	2.785	101	17549	2.045	ug/L #	70
13) Iodomethane	2.884	142	20587	1.820	ug/L	94
14) Acrolein	3.075	56	1782	1.973	ug/L	91
15) Methylene chloride	3.293	84	18236	2.018	ug/L	76
16) Isopropyl alcohol	3.227	45	3120	12.300	ug/L #	81
17) Acetone	3.342	43	4653	1.703	ug/L	90
18) trans-1,2-Dichloroethene	3.451	96	20290	2.082	ug/L	79
19) Methyl acetate	3.467	43	4564	1.527	ug/L #	95
20) Methyl tert-butyl ether	3.538	73	31175	1.985	ug/L #	90
21) tert-Butyl alcohol	3.637	59	3525	10.836	ug/L	98
22) Diisopropyl ether	3.898	45	70117	2.000	ug/L	93
23) 1,1-Dichloroethane	4.035	63	44204	2.078	ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A07.D
Acq On : 28 Sep 2017 11:26 pm
Operator : VOA101:MAB
Sample : I8260 L2
Misc : WG1047540
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 30 14:46:58 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.089	117	14193	2.002	ug/L		99
25) Acrylonitrile	4.117	53	2578	1.536	ug/L	#	82
26) Ethyl tert-butyl ether	4.259	59	50538	1.999	ug/L		89
27) Vinyl acetate	4.297	43	28604	1.741	ug/L	#	92
28) cis-1,2-Dichloroethene	4.570	96	21103	2.047	ug/L	#	84
29) 2,2-Dichloropropane	4.668	77	31189	2.088	ug/L		92
30) Bromochloromethane	4.766	128	6933	2.001	ug/L	#	78
31) Cyclohexane	4.761	56	47022	2.036	ug/L		74
32) Chloroform	4.848	83	33120	2.032	ug/L		97
33) Ethyl acetate	4.990	43	8392	1.832	ug/L	#	89
34) Carbon tetrachloride	4.973	117	26708	1.977	ug/L		99
35) Tetrahydrofuran	5.006	42	3841	2.181	ug/L	#	77
37) 1,1,1-Trichloroethane	5.044	97	31123	2.017	ug/L		93
38) 2-Butanol	5.039	45	4188M1	13.705	ug/L		
39) 2-Butanone	5.192	43	3992M1	2.213	ug/L		
40) 1,1-Dichloropropene	5.181	75	29733	2.037	ug/L		98
41) Benzene	5.432	78	84009	2.054	ug/L	#	92
42) tert-Amyl methyl ether	5.546	73	34204	2.017	ug/L	#	88
44) 1,2-Dichloroethane	5.655	62	20347	1.991	ug/L		96
45) Isobutyl alcohol	5.775	43	2003	11.898	ug/L	#	59
46) 2-Methyl-2-butanol	5.770	59	3441	12.155	ug/L	#	77
47) Methyl cyclohexane	6.048	83	33768	1.986	ug/L	#	67
48) Trichloroethene	6.065	95	21460	2.085	ug/L		97
49) n-Butanol	6.043	56	11376	10.053	ug/L		83
50) Dibromomethane	6.545	93	7126	1.929	ug/L		99
51) 1,2-Dichloropropane	6.638	63	22291	1.980	ug/L	#	92
52) 4-penten-2-ol	6.698	45	340	11.544	ug/L	#	1
53) 2-Chloroethyl vinyl ether	7.412	63	4686M1	1.645	ug/L		
54) Bromodichloromethane	6.725	83	22330	1.949	ug/L		99
57) 1,4-Dioxane	6.949	88	15580	418.448	ug/L	#	82
58) cis-1,3-Dichloropropene	7.472	75	26193	1.878	ug/L		93
61) Toluene	7.745	92	52349	2.090	ug/L		96
62) 4-Methyl-2-pentanone	8.236	58	2736	1.691	ug/L		83
63) Tetrachloroethene	8.225	166	20096	2.084	ug/L		94
65) trans-1,3-Dichloropropene	8.285	75	18510	1.796	ug/L		87
66) 4-Methyl-2-pentanol	8.373	45	6969	9.638	ug/L	#	88
67) Ethyl methacrylate	8.487	69	11078	1.786	ug/L		94
68) 1,1,2-Trichloroethane	8.476	83	8900	2.004	ug/L		97
69) Chlorodibromomethane	8.700	129	11523	1.850	ug/L		93
70) 1,3-Dichloropropane	8.826	76	18806	1.926	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A07.D
Acq On : 28 Sep 2017 11:26 pm
Operator : VOA101:MAB
Sample : I8260 L2
Misc : WG1047540
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 30 14:46:58 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71) 1,2-Dibromoethane	9.006	107	9332	1.942	ug/L		99
72) 2-Hexanone	9.355	43	5425M1	2.050	ug/L		
73) Chlorobenzene	9.699	112	53981	2.064	ug/L		96
74) Ethylbenzene	9.742	91	98477	2.076	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.797	131	16106	1.942	ug/L		97
76) p/m Xylene	9.944	106	76382	4.202	ug/L		87
77) o Xylene	10.517	106	68704	4.179	ug/L		90
78) Styrene	10.593	104	102959	4.031	ug/L		98
80) Bromoform	10.626	173	5091	1.886	ug/L		96
82) Isopropylbenzene	10.921	105	97799	2.027	ug/L		100
84) Bromobenzene	11.401	156	16852	1.967	ug/L		98
85) n-Propylbenzene	11.439	91	112716	2.026	ug/L		97
86) 1,4-Dichlorobutane	11.472	55	21642	1.999	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.543	83	9882	1.983	ug/L		100
88) 4-Ethyltoluene	11.576	105	89614	2.010	ug/L		100
89) 2-Chlorotoluene	11.630	91	66095M1	2.065	ug/L		
90) 1,3,5-Trimethylbenzene	11.685	105	75360	1.987	ug/L		98
91) 1,2,3-Trichloropropane	11.701	75	8598M1	2.053	ug/L		
92) trans-1,4-Dichloro-2-b...	11.777	53	3207	2.108	ug/L	#	58
93) 4-Chlorotoluene	11.832	91	63438	1.960	ug/L		93
94) tert-Butylbenzene	12.056	119	64317	2.024	ug/L		92
97) 1,2,4-Trimethylbenzene	12.143	105	74633	2.007	ug/L		99
98) sec-Butylbenzene	12.263	105	89402	1.994	ug/L		100
99) p-Isopropyltoluene	12.432	119	73945	1.996	ug/L		97
100) 1,3-Dichlorobenzene	12.520	146	33740	1.934	ug/L		99
101) 1,4-Dichlorobenzene	12.618	146	33762	1.947	ug/L		93
102) p-Diethylbenzene	12.841	119	39858	1.954	ug/L		97
103) n-Butylbenzene	12.907	91	60801	1.927	ug/L		95
104) 1,2-Dichlorobenzene	13.087	146	28887	1.988	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.725	119	56063	1.973	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.955	155	864	1.576	ug/L		88
107) 1,3,5-Trichlorobenzene	13.987	180	17764	1.976	ug/L		95
108) Hexachlorobutadiene	14.620	225	6267	2.070	ug/L		96
109) 1,2,4-Trichlorobenzene	14.664	180	13198	1.944	ug/L		98
110) Naphthalene	14.991	128	22910	1.984	ug/L		100
111) 1,2,3-Trichlorobenzene	15.182	180	9127	1.981	ug/L		97

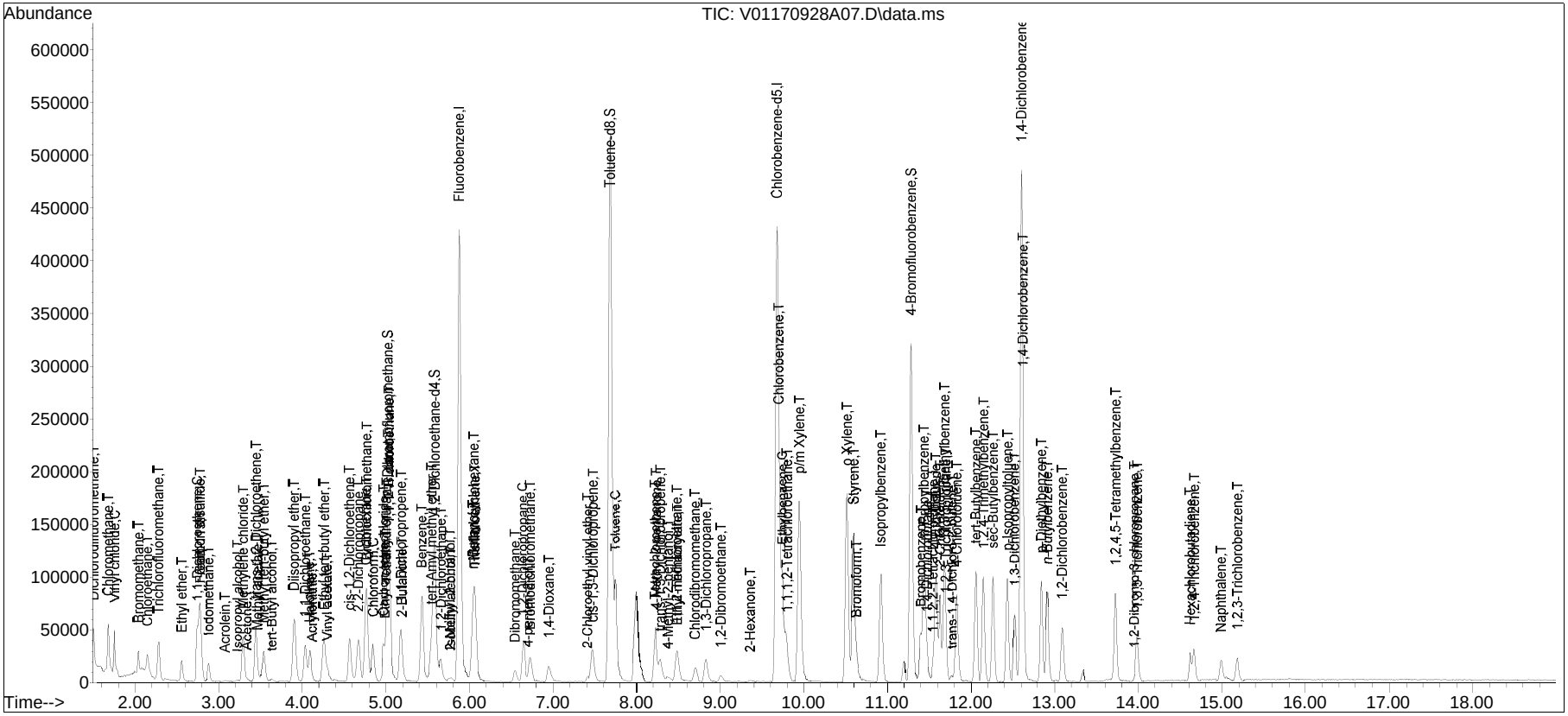
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A07.D
Acq On : 28 Sep 2017 11:26 pm
Operator : VOA101:MAB
Sample : I8260 L2
Misc : WG1047540
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 30 14:46:58 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

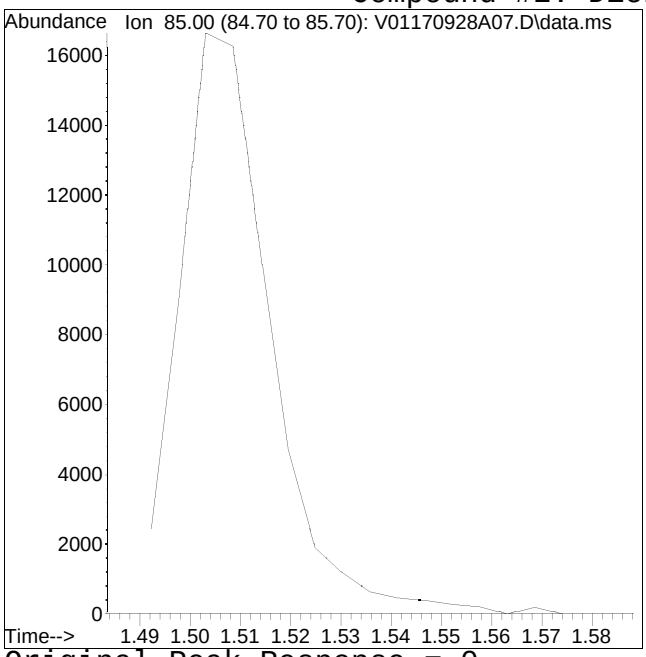
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•



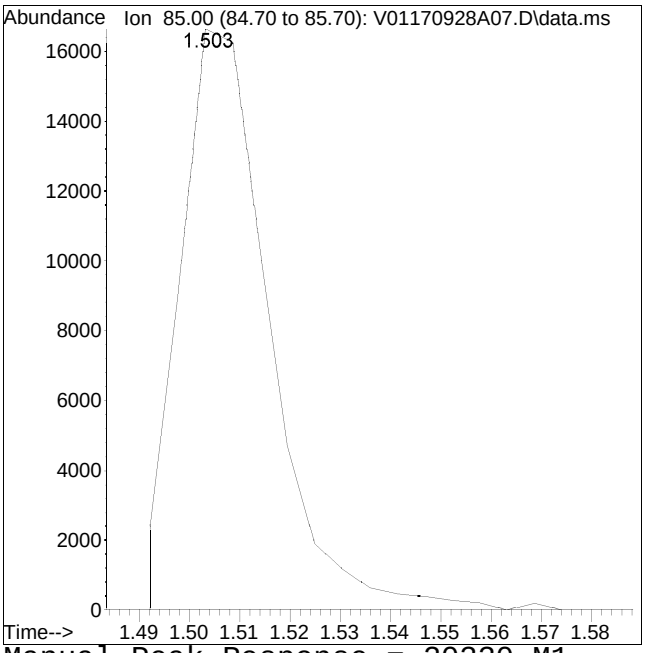
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A07.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:26 pm Instrument : VOA 101
Sample : I8260 L2 Quant Date : 9/30/2017 2:46 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 0



Manual Peak Response = 20330 M1

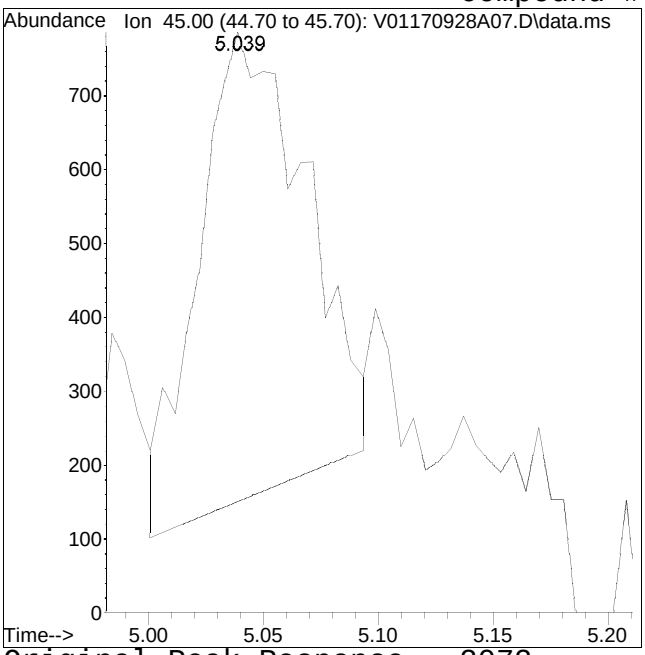
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

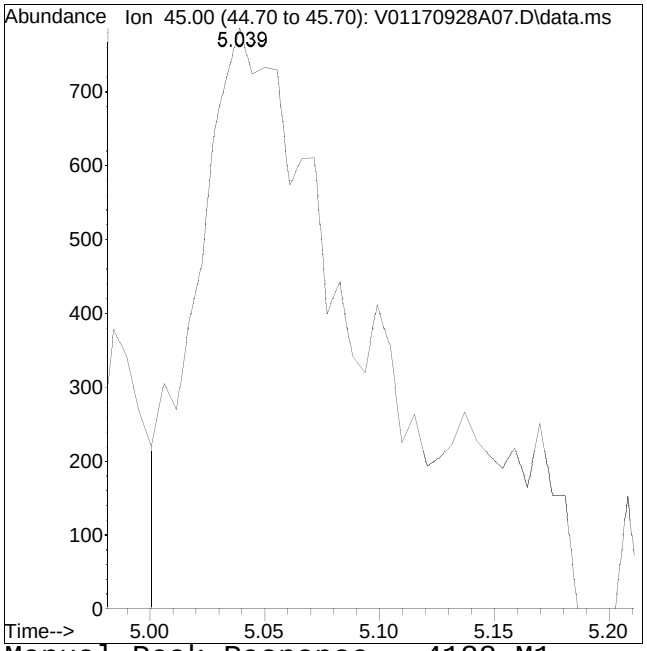
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01170928A07.D
Date Inj'd : 9/28/2017 11:26 pm
Sample : I8260 L2

Method : V101_170928_8260.m
Operator : VOA101:MAB
Instrument : VOA 101
Quant Date : 9/30/2017 2:46 pm

Compound #38: 2-Butanol



Original Peak Response = 2072



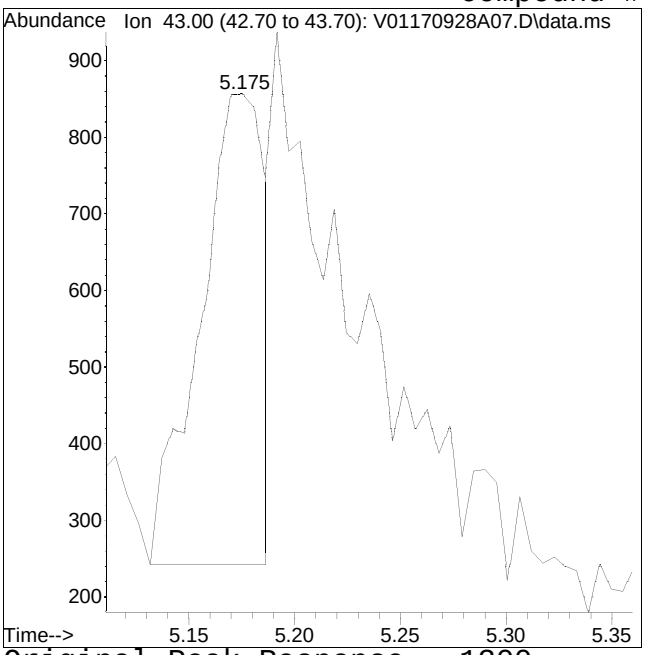
Manual Peak Response = 4188 M1

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

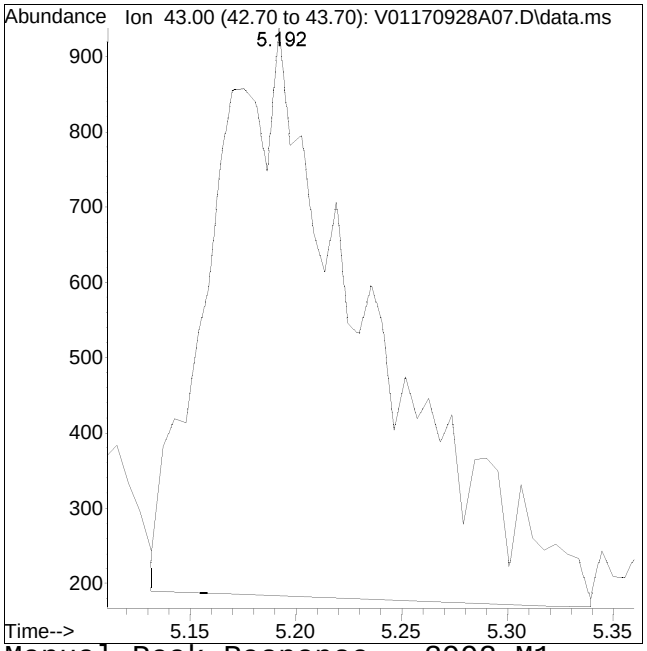
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A07.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:26 pm Instrument : VOA 101
Sample : I8260 L2 Quant Date : 9/30/2017 2:46 pm

Compound #39: 2-Butanone



Original Peak Response = 1300



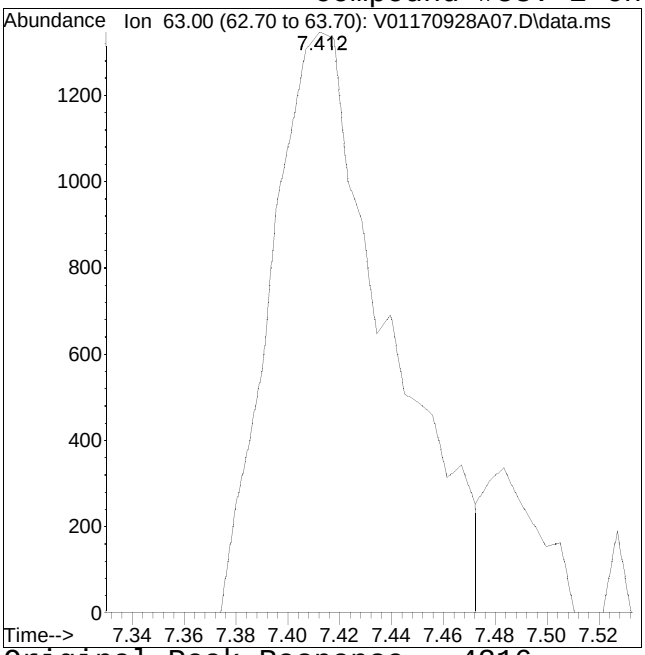
Manual Peak Response = 3992 M1

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

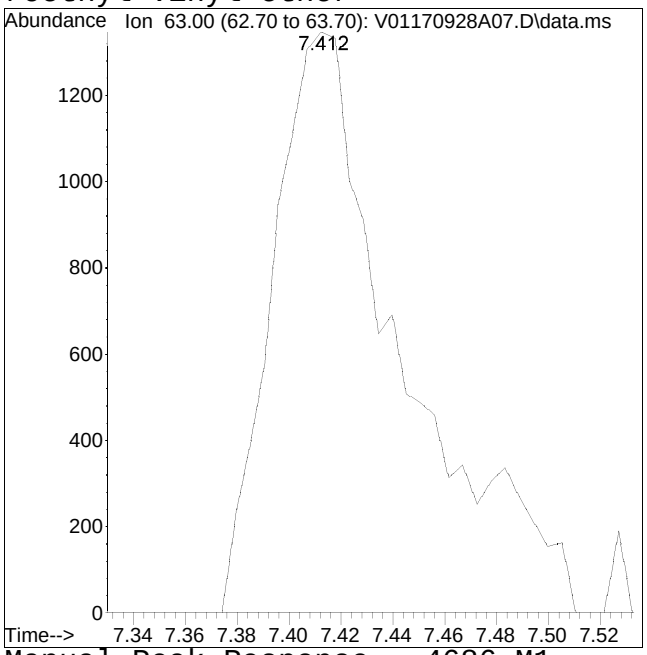
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A07.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:26 pm Instrument : VOA 101
Sample : I8260 L2 Quant Date : 9/30/2017 2:46 pm

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 4216



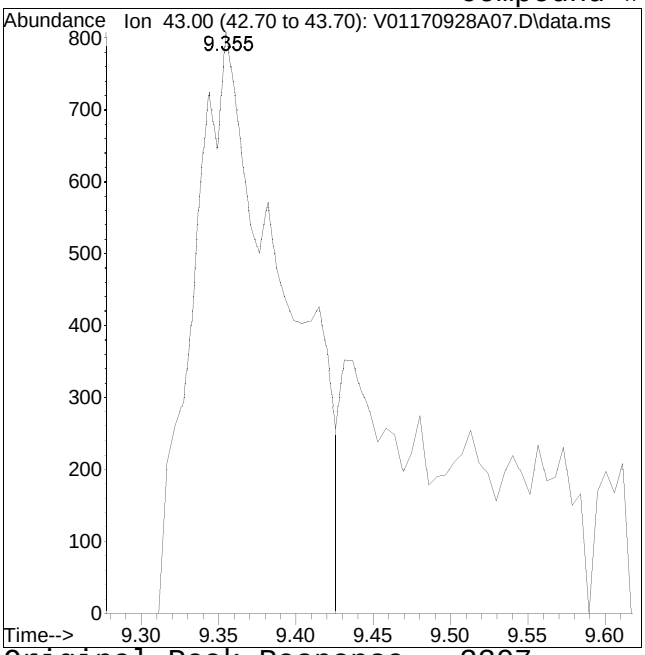
Manual Peak Response = 4686 M1

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

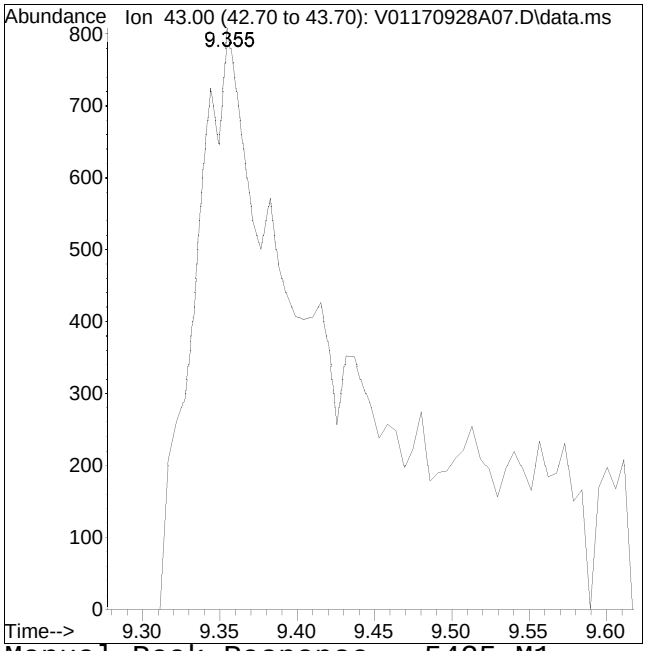
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A07.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:26 pm Instrument : VOA 101
Sample : I8260 L2 Quant Date : 9/30/2017 2:46 pm

Compound #72: 2-Hexanone



Original Peak Response = 3307



Manual Peak Response = 5425 M1

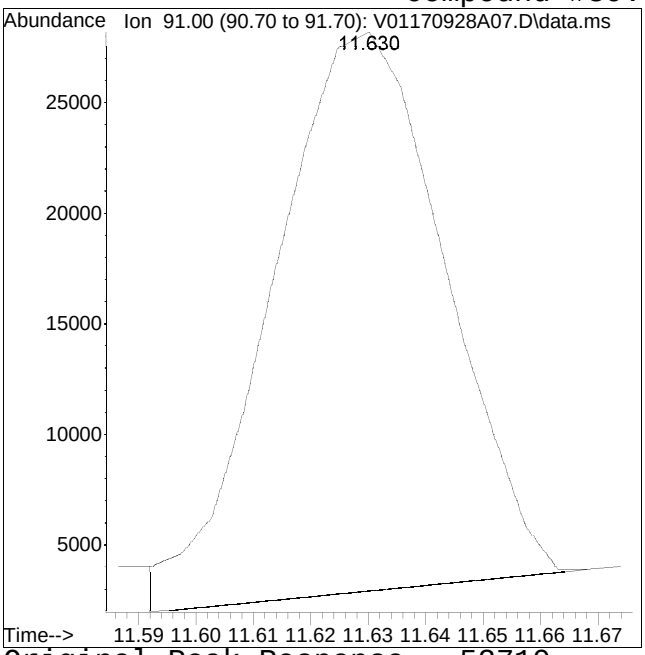
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

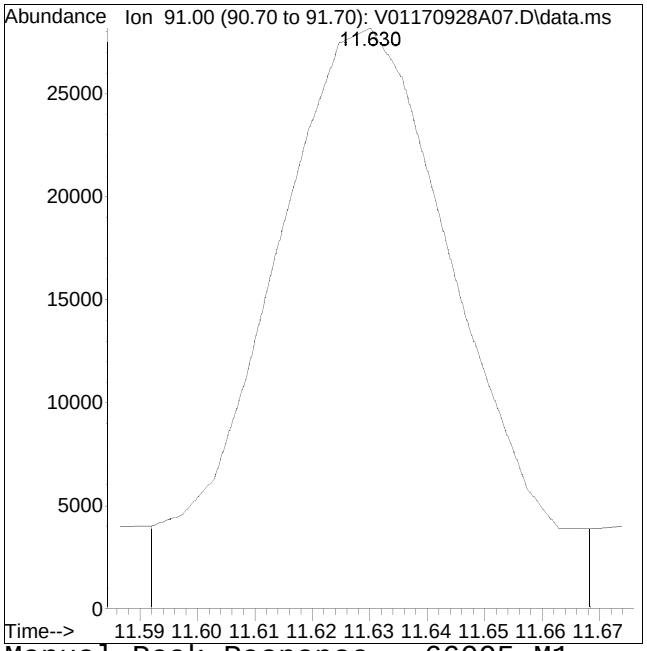
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01170928A07.D
Date Inj'd : 9/28/2017 11:26 pm
Sample : I8260 L2

Method : V101_170928_8260.m
Operator : VOA101:MAB
Instrument : VOA 101
Quant Date : 9/30/2017 2:46 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 52710



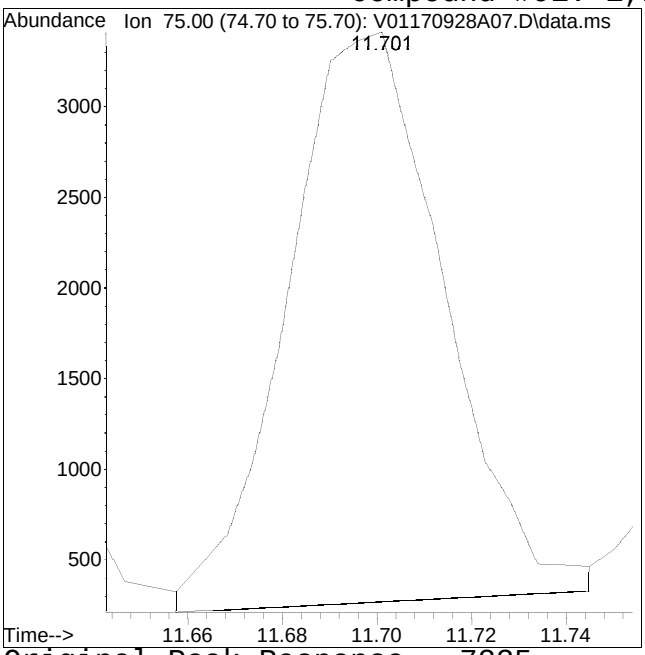
Manual Peak Response = 66095 M1

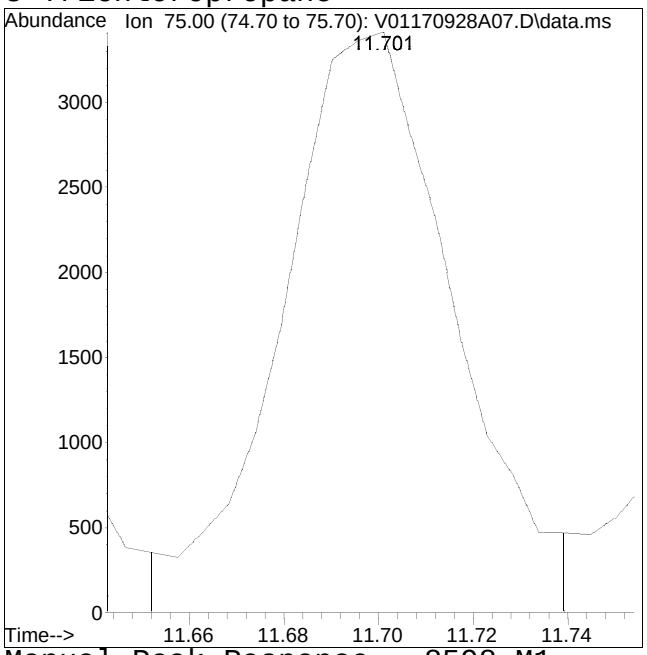
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A07.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:26 pm Instrument : VOA 101
Sample : I8260 L2 Quant Date : 9/30/2017 2:46 pm

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 7235 Manual Peak Response = 8598 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A08.D
Acq On : 28 Sep 2017 11:55 pm
Operator : VOA101:MAB
Sample : I8260 L3
Misc : WG1047540
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 30 14:47:06 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.874	96	495996	10.000	ug/L	0.00
Standard Area 1 = 495996			Recovery = 100.00%			
59) Chlorobenzene-d5	9.677	117	352256	10.000	ug/L	0.00
Standard Area 1 = 352256			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.601	152	159281	10.000	ug/L	0.00
Standard Area 1 = 159281			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.028	113	116653	10.051	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.51%			
43) 1,2-Dichloroethane-d4	5.579	65	114906	10.053	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.53%			
60) Toluene-d8	7.680	98	486301	9.928	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.28%			
83) 4-Bromofluorobenzene	11.275	95	176060	9.857	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.57%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.503	85	104000M1	10.116	ug/L	
3) Chloromethane	1.678	50	176182	9.805	ug/L	99
4) Vinyl chloride	1.749	62	149061	10.161	ug/L	95
5) Bromomethane	2.038	94	42262	8.897	ug/L	99
6) Chloroethane	2.147	64	60650	10.659	ug/L	96
7) Trichlorofluoromethane	2.278	101	152811	10.010	ug/L	98
8) Ethyl ether	2.562	74	35425	10.288	ug/L	69
10) 1,1-Dichloroethene	2.747	96	87395	10.041	ug/L #	74
11) Carbon disulfide	2.774	76	271315	10.025	ug/L	99
12) Freon-113	2.785	101	90556	10.229	ug/L #	66
13) Iodomethane	2.884	142	117126	10.038	ug/L	96
14) Acrolein	3.069	56	9041	9.703	ug/L	83
15) Methylene chloride	3.293	84	91752	9.843	ug/L	78
16) Isopropyl alcohol	3.222	45	14192	54.235	ug/L #	87
17) Acetone	3.342	43	12323	8.315	ug/L #	88
18) trans-1,2-Dichloroethene	3.446	96	99160	9.865	ug/L	77
19) Methyl acetate	3.456	43	26737	9.184	ug/L	95
20) Methyl tert-butyl ether	3.533	73	162502	10.032	ug/L	90
21) tert-Butyl alcohol	3.631	59	15890	47.350	ug/L	92
22) Diisopropyl ether	3.898	45	362546	10.023	ug/L	91
23) 1,1-Dichloroethane	4.035	63	215818	9.836	ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A08.D
Acq On : 28 Sep 2017 11:55 pm
Operator : VOA101:MAB
Sample : I8260 L3
Misc : WG1047540
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 30 14:47:06 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.089	117	71803	9.817	ug/L		99
25) Acrylonitrile	4.095	53	16343	9.437	ug/L		92
26) Ethyl tert-butyl ether	4.253	59	261802	10.040	ug/L		95
27) Vinyl acetate	4.280	43	166205	9.807	ug/L	#	95
28) cis-1,2-Dichloroethene	4.570	96	106730	10.038	ug/L		85
29) 2,2-Dichloropropane	4.668	77	152418	9.894	ug/L		95
30) Bromochloromethane	4.766	128	37198	10.409	ug/L	#	80
31) Cyclohexane	4.766	56	242630	10.186	ug/L		75
32) Chloroform	4.842	83	165862	9.866	ug/L		99
33) Ethyl acetate	4.968	43	45240	9.574	ug/L	#	96
34) Carbon tetrachloride	4.973	117	136522	9.798	ug/L		98
35) Tetrahydrofuran	4.995	42	15951	8.781	ug/L		94
37) 1,1,1-Trichloroethane	5.044	97	157175	9.875	ug/L		95
38) 2-Butanol	5.022	45	14989	47.548	ug/L	#	20
39) 2-Butanone	5.159	43	16170	8.688	ug/L		87
40) 1,1-Dichloropropene	5.175	75	149551	9.930	ug/L		99
41) Benzene	5.432	78	413877	9.810	ug/L	#	92
42) tert-Amyl methyl ether	5.546	73	173382	9.912	ug/L	#	88
44) 1,2-Dichloroethane	5.650	62	105378	9.997	ug/L		93
45) Isobutyl alcohol	5.770	43	4781	42.648	ug/L	#	94
46) 2-Methyl-2-butanol	5.764	59	16400	56.157	ug/L	#	75
47) Methyl cyclohexane	6.048	83	181758	10.360	ug/L	#	71
48) Trichloroethene	6.065	95	102286	9.635	ug/L		93
49) n-Butanol	6.048	56	59815	51.242	ug/L	#	75
50) Dibromomethane	6.534	93	38420	10.081	ug/L		96
51) 1,2-Dichloropropane	6.637	63	116086	9.998	ug/L	#	94
52) 4-penten-2-ol	6.659	45	10429M1	51.439	ug/L		
53) 2-Chloroethyl vinyl ether	7.390	63	29458	10.025	ug/L		87
54) Bromodichloromethane	6.719	83	113936	9.642	ug/L		98
57) 1,4-Dioxane	6.948	88	21026	547.418	ug/L	#	78
58) cis-1,3-Dichloropropene	7.461	75	143110	9.949	ug/L		97
61) Toluene	7.740	92	257445	9.752	ug/L		97
62) 4-Methyl-2-pentanone	8.225	58	16881	9.899	ug/L		96
63) Tetrachloroethene	8.225	166	100162	9.858	ug/L		95
65) trans-1,3-Dichloropropene	8.274	75	107265	9.876	ug/L		95
66) 4-Methyl-2-pentanol	8.362	45	39477	51.807	ug/L	#	90
67) Ethyl methacrylate	8.476	69	63300	9.682	ug/L		96
68) 1,1,2-Trichloroethane	8.471	83	47698	10.191	ug/L		96
69) Chlorodibromomethane	8.695	129	63386	9.659	ug/L		95
70) 1,3-Dichloropropane	8.820	76	102563	9.966	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A08.D
Acq On : 28 Sep 2017 11:55 pm
Operator : VOA101:MAB
Sample : I8260 L3
Misc : WG1047540
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 30 14:47:06 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	1,2-Dibromoethane	8.995	107	51118	10.095	ug/L	99
72)	2-Hexanone	9.327	43	24271	8.704	ug/L	97
73)	Chlorobenzene	9.698	112	269605	9.780	ug/L	99
74)	Ethylbenzene	9.737	91	493829	9.880	ug/L	96
75)	1,1,1,2-Tetrachloroethane	9.786	131	84321	9.648	ug/L	100
76)	p/m Xylene	9.939	106	386899	20.200	ug/L	87
77)	o Xylene	10.517	106	348762	20.130	ug/L	87
78)	Styrene	10.588	104	545193	20.254	ug/L	97
80)	Bromoform	10.615	173	28029	9.854	ug/L	100
82)	Isopropylbenzene	10.921	105	499589	9.828	ug/L	99
84)	Bromobenzene	11.401	156	87749	9.723	ug/L	100
85)	n-Propylbenzene	11.439	91	579176	9.883	ug/L	96
86)	1,4-Dichlorobutane	11.466	55	111233	9.750	ug/L	94
87)	1,1,2,2-Tetrachloroethane	11.543	83	51326	9.774	ug/L	99
88)	4-Ethyltoluene	11.576	105	460317	9.798	ug/L	99
89)	2-Chlorotoluene	11.625	91	320464	9.502	ug/L	92
90)	1,3,5-Trimethylbenzene	11.679	105	391077	9.786	ug/L	100
91)	1,2,3-Trichloropropane	11.690	75	43078M1	9.762	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.756	53	14709	9.178	ug/L	84
93)	4-Chlorotoluene	11.826	91	330212	9.684	ug/L	95
94)	tert-Butylbenzene	12.056	119	329590	9.845	ug/L	93
97)	1,2,4-Trimethylbenzene	12.143	105	383007	9.776	ug/L	98
98)	sec-Butylbenzene	12.263	105	467237	9.890	ug/L	99
99)	p-Isopropyltoluene	12.432	119	382523	9.801	ug/L	96
100)	1,3-Dichlorobenzene	12.514	146	178466	9.711	ug/L	99
101)	1,4-Dichlorobenzene	12.618	146	175034	9.578	ug/L	99
102)	p-Diethylbenzene	12.841	119	211003	9.819	ug/L	98
103)	n-Butylbenzene	12.907	91	325037	9.778	ug/L	97
104)	1,2-Dichlorobenzene	13.087	146	147512	9.635	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.720	119	291365	9.734	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.954	155	5423	9.391	ug/L	97
107)	1,3,5-Trichlorobenzene	13.987	180	92439	9.760	ug/L	96
108)	Hexachlorobutadiene	14.620	225	29152	9.140	ug/L	98
109)	1,2,4-Trichlorobenzene	14.658	180	70047	9.792	ug/L	99
110)	Naphthalene	14.986	128	114191	9.384	ug/L	100
111)	1,2,3-Trichlorobenzene	15.177	180	46345	9.545	ug/L	95

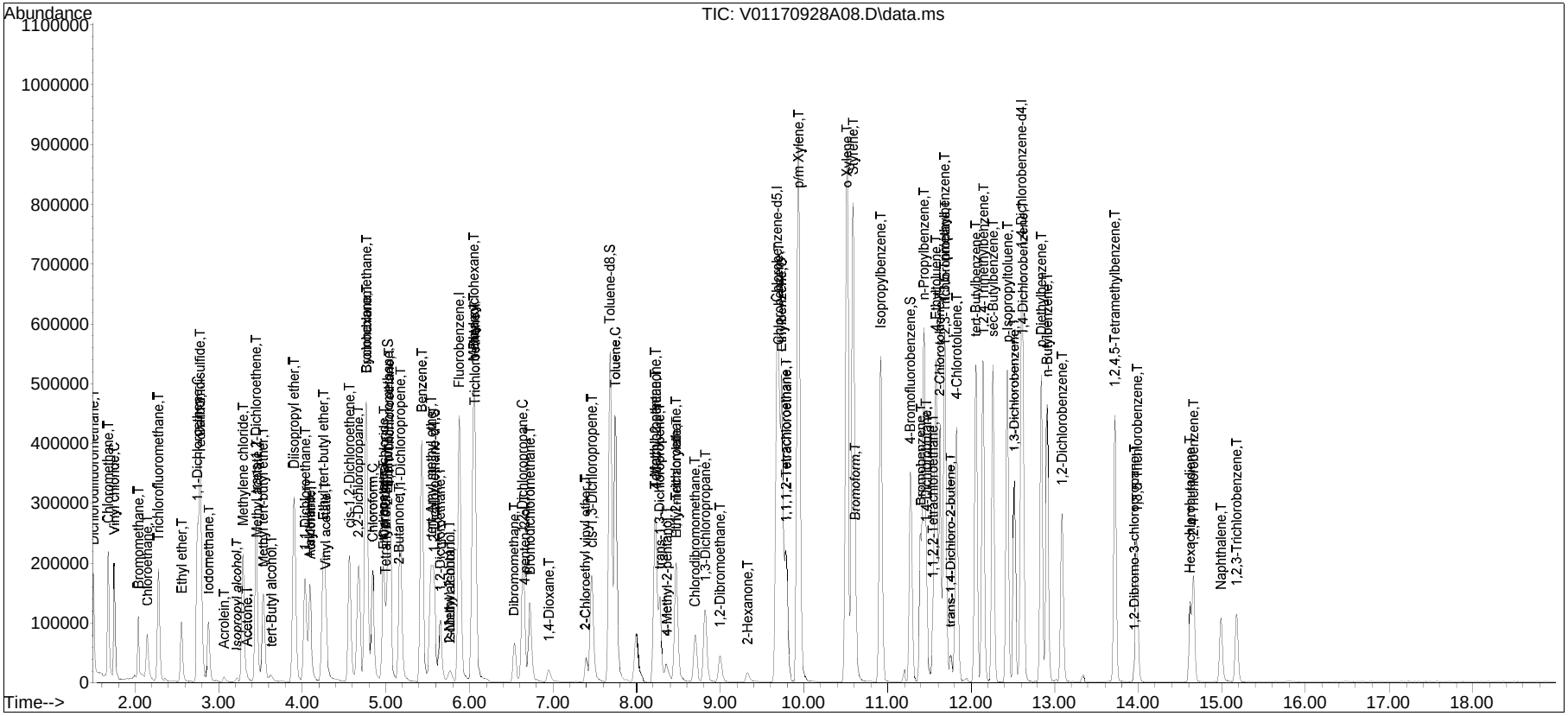
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A08.D
Acq On : 28 Sep 2017 11:55 pm
Operator : VOA101:MAB
Sample : I8260 L3
Misc : WG1047540
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 30 14:47:06 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

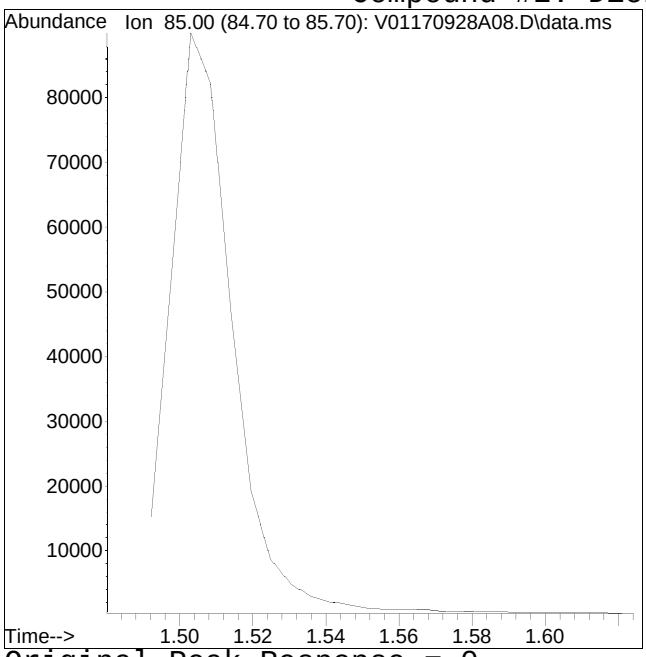
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•

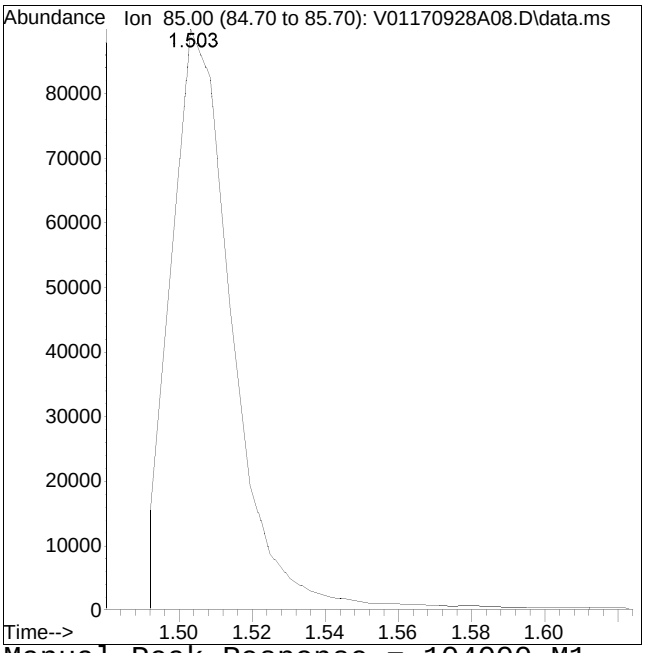


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A08.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:55 pm Instrument : VOA 101
Sample : I8260 L3 Quant Date : 9/30/2017 2:47 pm

Compound #2: Dichlorodifluoromethane





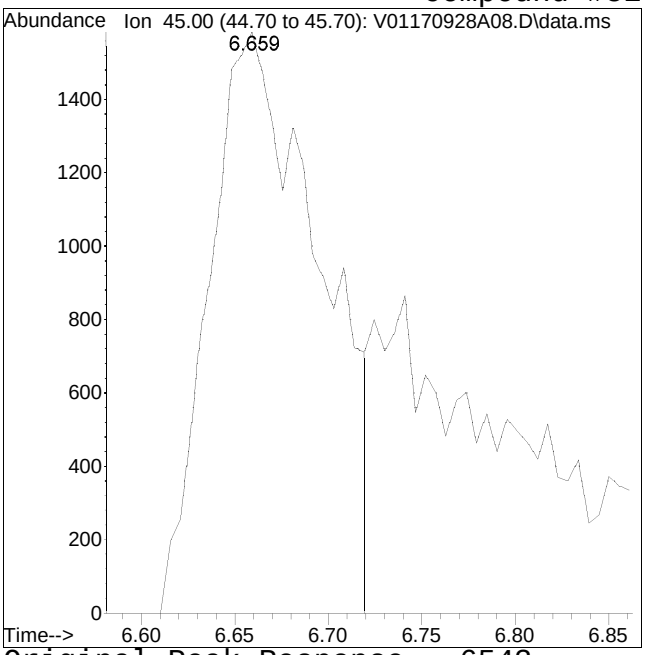
Original Peak Response = 0 Manual Peak Response = 104000 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

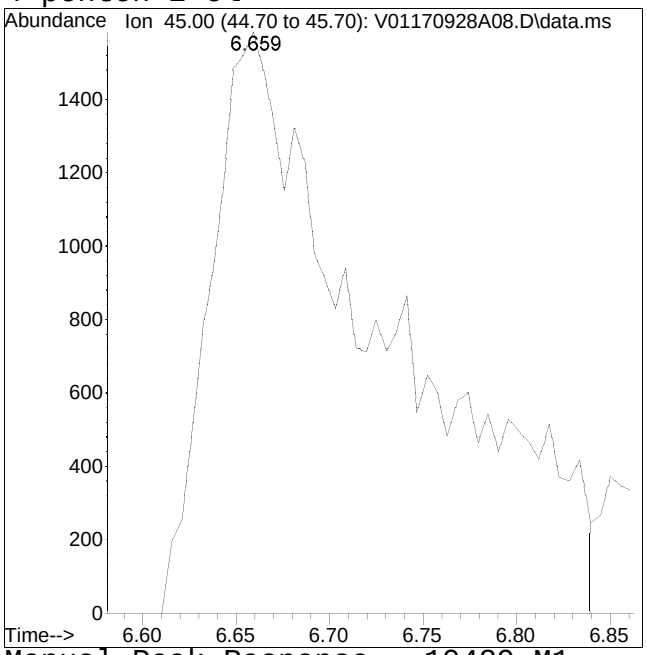
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01170928A08.D
Date Inj'd : 9/28/2017 11:55 pm
Sample : I8260 L3

Method : V101_170928_8260.m
Operator : VOA101:MAB
Instrument : VOA 101
Quant Date : 9/30/2017 2:47 pm

Compound #52: 4-penten-2-ol





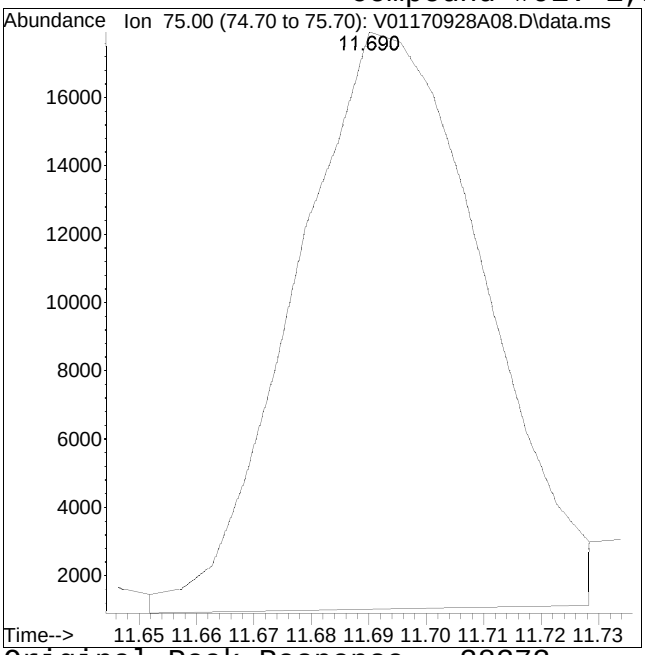
Original Peak Response = 6543 Manual Peak Response = 10429 M1

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

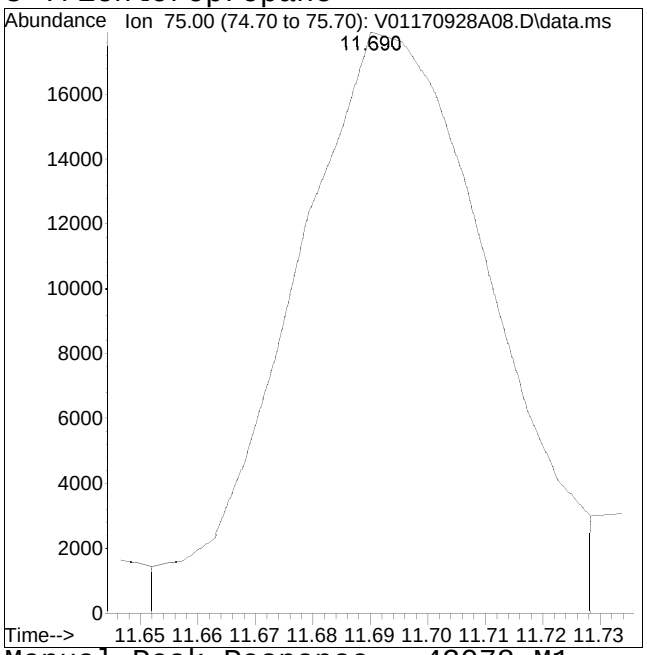
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A08.D Operator : VOA101:MAB
Date Inj'd : 9/28/2017 11:55 pm Instrument : VOA 101
Sample : I8260 L3 Quant Date : 9/30/2017 2:47 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 38373



Manual Peak Response = 43078 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A09.D
Acq On : 29 Sep 2017 12:23 am
Operator : VOA101:MAB
Sample : I8260 L4
Misc : WG1047540
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 30 14:47:15 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.874	96	481896	10.000 ug/L	0.00
Standard Area 1 = 495996			Recovery = 97.16%		
59) Chlorobenzene-d5	9.671	117	343364	10.000 ug/L	0.00
Standard Area 1 = 352256			Recovery = 97.48%		
79) 1,4-Dichlorobenzene-d4	12.601	152	158980	10.000 ug/L	0.00
Standard Area 1 = 159281			Recovery = 99.81%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.023	113	114640	10.167 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.67%		
43) 1,2-Dichloroethane-d4	5.574	65	111005	9.995 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.95%		
60) Toluene-d8	7.680	98	473587	9.919 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.19%		
83) 4-Bromofluorobenzene	11.276	95	174268	9.776 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.76%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.503	85	314561M1	31.492 ug/L	
3) Chloromethane	1.678	50	532899	30.526 ug/L	98
4) Vinyl chloride	1.749	62	452421	31.741 ug/L	95
5) Bromomethane	2.032	94	136874	29.659 ug/L	98
6) Chloroethane	2.147	64	180153	32.588 ug/L	96
7) Trichlorofluoromethane	2.278	101	470310	31.708 ug/L	100
8) Ethyl ether	2.562	74	105547	31.550 ug/L #	67
10) 1,1-Dichloroethene	2.747	96	267982	31.691 ug/L #	75
11) Carbon disulfide	2.775	76	799368	30.400 ug/L	99
12) Freon-113	2.785	101	274595	31.926 ug/L #	63
13) Iodomethane	2.884	142	389851	34.387 ug/L	96
14) Acrolein	3.064	56	26920	29.735 ug/L	90
15) Methylene chloride	3.293	84	276307	30.510 ug/L	76
16) Isopropyl alcohol	3.216	45	34730	136.604 ug/L #	81
17) Acetone	3.331	43	34315	28.524 ug/L #	86
18) trans-1,2-Dichloroethene	3.446	96	304647	31.194 ug/L	78
19) Methyl acetate	3.451	43	84619	30.163 ug/L	94
20) Methyl tert-butyl ether	3.533	73	489122	31.079 ug/L	91
21) tert-Butyl alcohol	3.626	59	46265	141.898 ug/L	93
22) Diisopropyl ether	3.899	45	1101067	31.331 ug/L	91
23) 1,1-Dichloroethane	4.029	63	660466	30.981 ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A09.D
Acq On : 29 Sep 2017 12:23 am
Operator : VOA101:MAB
Sample : I8260 L4
Misc : WG1047540
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 30 14:47:15 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.089	117	221071	31.111	ug/L		100
25) Acrylonitrile	4.084	53	53911	32.039	ug/L		97
26) Ethyl tert-butyl ether	4.253	59	790471	31.203	ug/L		94
27) Vinyl acetate	4.275	43	526675	31.987	ug/L		97
28) cis-1,2-Dichloroethene	4.564	96	317146	30.699	ug/L	#	82
29) 2,2-Dichloropropane	4.668	77	462754	30.916	ug/L		96
30) Bromochloromethane	4.766	128	112563	32.420	ug/L	#	79
31) Cyclohexane	4.761	56	738633	31.915	ug/L		75
32) Chloroform	4.842	83	504710	30.900	ug/L		99
33) Ethyl acetate	4.957	43	143684	31.296	ug/L	#	94
34) Carbon tetrachloride	4.973	117	423105	31.255	ug/L		98
35) Tetrahydrofuran	4.995	42	49646	28.130	ug/L		93
37) 1,1,1-Trichloroethane	5.044	97	479509	31.009	ug/L		94
38) 2-Butanol	5.017	45	39991	130.571	ug/L	#	14
39) 2-Butanone	5.153	43	53185	29.413	ug/L		91
40) 1,1-Dichloropropene	5.175	75	460511	31.472	ug/L		99
41) Benzene	5.432	78	1258691	30.708	ug/L	#	92
42) tert-Amyl methyl ether	5.546	73	529677	31.166	ug/L	#	89
44) 1,2-Dichloroethane	5.650	62	319430	31.190	ug/L		96
45) Isobutyl alcohol	5.765	43	12829	138.060	ug/L	#	95
46) 2-Methyl-2-butanol	5.765	59	41828	147.420	ug/L	#	75
47) Methyl cyclohexane	6.043	83	550556	32.299	ug/L	#	70
48) Trichloroethene	6.065	95	318113	30.841	ug/L		95
49) n-Butanol	6.043	56	182004	160.480	ug/L	#	75
50) Dibromomethane	6.534	93	118331	31.956	ug/L		97
51) 1,2-Dichloropropane	6.638	63	351913	31.194	ug/L	#	94
52) 4-penten-2-ol	6.627	45	27136	120.718	ug/L	#	20
53) 2-Chloroethyl vinyl ether	7.391	63	94287	33.027	ug/L		89
54) Bromodichloromethane	6.719	83	356076	31.015	ug/L		99
57) 1,4-Dioxane	6.949	88	23366	626.140	ug/L	#	78
58) cis-1,3-Dichloropropene	7.456	75	442362	31.653	ug/L		97
61) Toluene	7.740	92	786736	30.572	ug/L		95
62) 4-Methyl-2-pentanone	8.214	58	52749	31.733	ug/L		94
63) Tetrachloroethene	8.220	166	308400	31.139	ug/L		96
65) trans-1,3-Dichloropropene	8.269	75	336607	31.794	ug/L		96
66) 4-Methyl-2-pentanol	8.356	45	104681	140.934	ug/L	#	92
67) Ethyl methacrylate	8.471	69	203657	31.956	ug/L		99
68) 1,1,2-Trichloroethane	8.471	83	143238	31.395	ug/L		96
69) Chlorodibromomethane	8.695	129	199889	31.250	ug/L		95
70) 1,3-Dichloropropane	8.815	76	311958	31.097	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A09.D
Acq On : 29 Sep 2017 12:23 am
Operator : VOA101:MAB
Sample : I8260 L4
Misc : WG1047540
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 30 14:47:15 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	1,2-Dibromoethane	8.995	107	156317	31.671	ug/L	99
72)	2-Hexanone	9.317	43	78708	28.958	ug/L	93
73)	Chlorobenzene	9.693	112	817377	30.419	ug/L	99
74)	Ethylbenzene	9.731	91	1499072	30.769	ug/L	96
75)	1,1,1,2-Tetrachloroethane	9.786	131	261256	30.668	ug/L	99
76)	p/m Xylene	9.939	106	1169998	62.667	ug/L	88
77)	o Xylene	10.517	106	1061225	62.840	ug/L	88
78)	Styrene	10.588	104	1672968	63.761	ug/L	97
80)	Bromoform	10.615	173	90791	31.978	ug/L	99
82)	Isopropylbenzene	10.921	105	1545743	30.465	ug/L	99
84)	Bromobenzene	11.396	156	272494	30.250	ug/L	100
85)	n-Propylbenzene	11.439	91	1792163	30.638	ug/L	96
86)	1,4-Dichlorobutane	11.467	55	340570	29.908	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.543	83	158167	30.178	ug/L	100
88)	4-Ethyltoluene	11.576	105	1440488	30.721	ug/L	99
89)	2-Chlorotoluene	11.625	91	1019633	30.290	ug/L	94
90)	1,3,5-Trimethylbenzene	11.679	105	1218375	30.545	ug/L	100
91)	1,2,3-Trichloropropane	11.696	75	123405	28.019	ug/L	94
92)	trans-1,4-Dichloro-2-b...	11.750	53	51117	31.957	ug/L	90
93)	4-Chlorotoluene	11.827	91	1039760	30.550	ug/L	95
94)	tert-Butylbenzene	12.056	119	1027957	30.763	ug/L	93
97)	1,2,4-Trimethylbenzene	12.138	105	1195223	30.566	ug/L	99
98)	sec-Butylbenzene	12.263	105	1455062	30.859	ug/L	99
99)	p-Isopropyltoluene	12.432	119	1207343	30.993	ug/L	96
100)	1,3-Dichlorobenzene	12.514	146	564396	30.770	ug/L	99
101)	1,4-Dichlorobenzene	12.618	146	557587	30.569	ug/L	98
102)	p-Diethylbenzene	12.842	119	666335	31.065	ug/L	98
103)	n-Butylbenzene	12.907	91	1024425	30.877	ug/L	97
104)	1,2-Dichlorobenzene	13.087	146	463096	30.306	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.720	119	913454	30.576	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.955	155	17739	30.778	ug/L	94
107)	1,3,5-Trichlorobenzene	13.987	180	292642	30.958	ug/L	96
108)	Hexachlorobutadiene	14.620	225	92581	29.082	ug/L	98
109)	1,2,4-Trichlorobenzene	14.653	180	218855	30.652	ug/L	98
110)	Naphthalene	14.986	128	361249	29.743	ug/L	100
111)	1,2,3-Trichlorobenzene	15.177	180	147326	30.401	ug/L	97

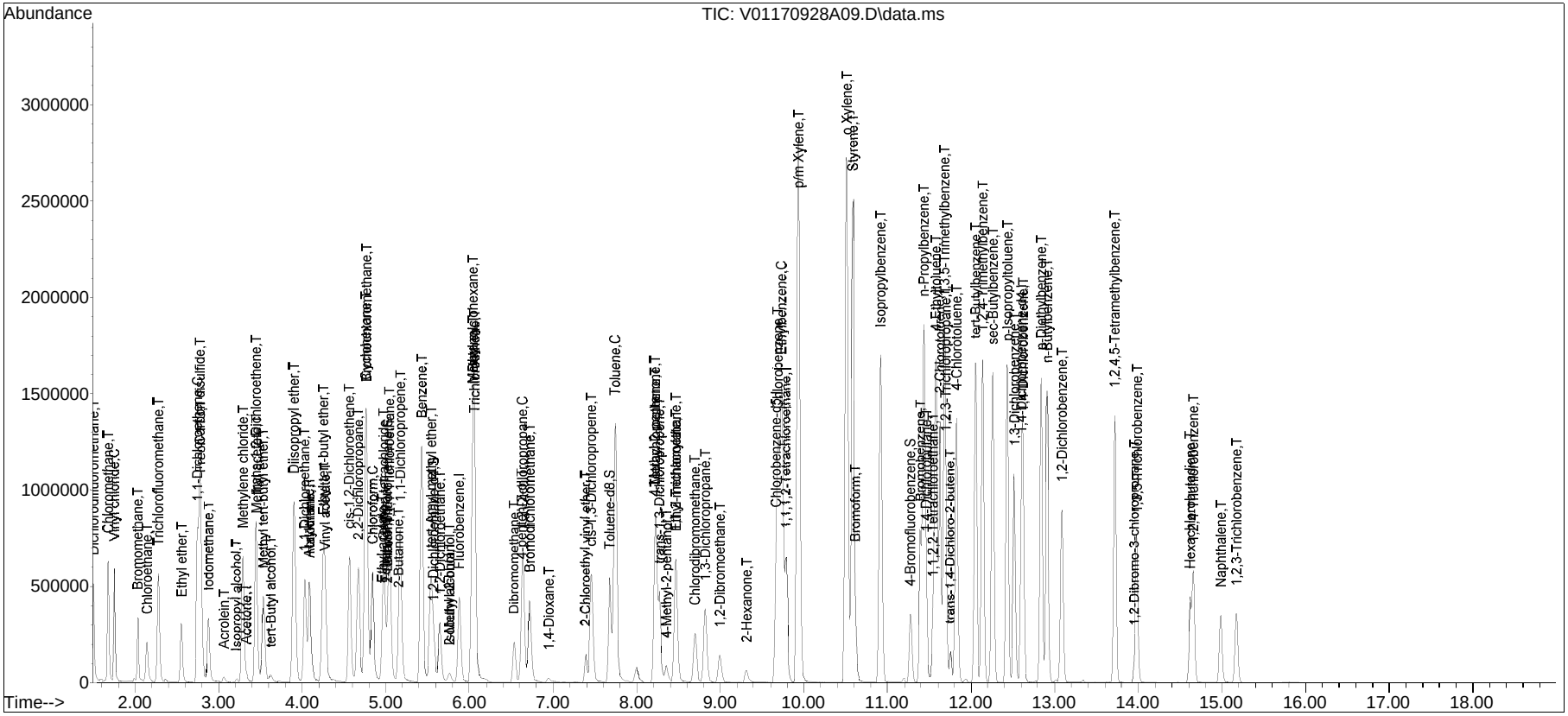
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A09.D
Acq On : 29 Sep 2017 12:23 am
Operator : VOA101:MAB
Sample : I8260 L4
Misc : WG1047540
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 30 14:47:15 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

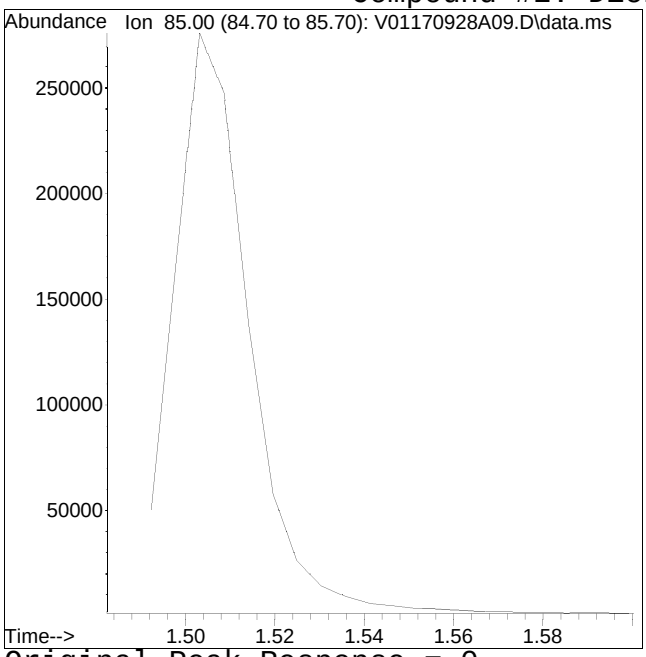
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•



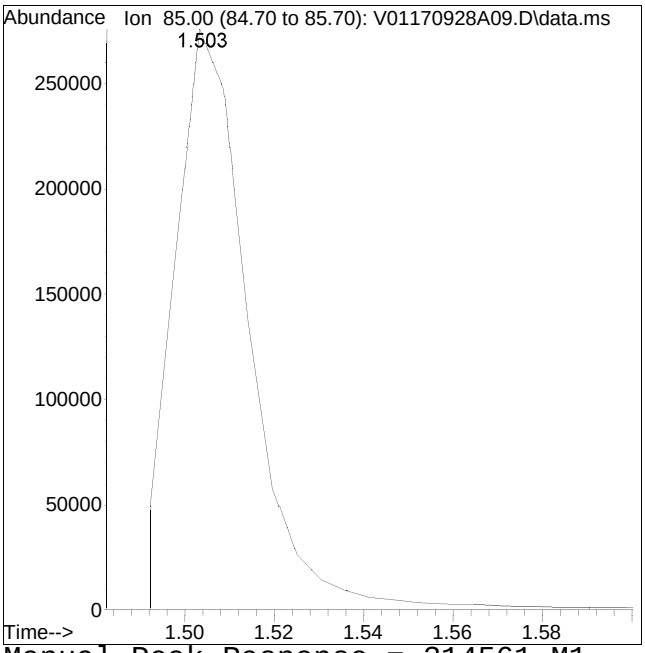
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A09.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 12:23 am Instrument : VOA 101
Sample : I8260 L4 Quant Date : 9/30/2017 2:47 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 0



Manual Peak Response = 314561 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A10.D
Acq On : 29 Sep 2017 12:51 am
Operator : VOA101:MAB
Sample : I8260 L6
Misc : WG1047540
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 14:47:23 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.874	96	485104	10.000 ug/L	0.00
Standard Area 1 = 495996			Recovery = 97.80%		
59) Chlorobenzene-d5	9.671	117	348432	10.000 ug/L	0.00
Standard Area 1 = 352256			Recovery = 98.91%		
79) 1,4-Dichlorobenzene-d4	12.601	152	159761	10.000 ug/L	0.00
Standard Area 1 = 159281			Recovery = 100.30%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.022	113	114220	10.062 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.62%		
43) 1,2-Dichloroethane-d4	5.579	65	112324	10.047 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.47%		
60) Toluene-d8	7.680	98	479886	9.905 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.05%		
83) 4-Bromofluorobenzene	11.275	95	178864	9.984 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.84%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.503	85	821599M1	81.709 ug/L	
3) Chloromethane	1.672	50	1396296	79.456 ug/L	98
4) Vinyl chloride	1.748	62	1190488	82.971 ug/L	95
5) Bromomethane	2.032	94	401588	86.445 ug/L	100
6) Chloroethane	2.136	64	449534	80.779 ug/L	97
7) Trichlorofluoromethane	2.272	101	1229060	82.314 ug/L	100
8) Ethyl ether	2.556	74	277275	82.333 ug/L #	68
10) 1,1-Dichloroethene	2.747	96	698389	82.044 ug/L #	75
11) Carbon disulfide	2.774	76	2034368	76.855 ug/L	99
12) Freon-113	2.785	101	713114	82.361 ug/L #	61
13) Iodomethane	2.878	142	1053607	92.320 ug/L	96
14) Acrolein	3.058	56	75808	83.182 ug/L	87
15) Methylene chloride	3.293	84	734599	80.580 ug/L	77
16) Isopropyl alcohol	3.211	45	91643	358.078 ug/L #	80
17) Acetone	3.331	43	91081	79.326 ug/L #	87
18) trans-1,2-Dichloroethene	3.445	96	798826	81.254 ug/L	77
19) Methyl acetate	3.451	43	225676	80.094 ug/L	95
20) Methyl tert-butyl ether	3.533	73	1291416	81.516 ug/L	91
21) tert-Butyl alcohol	3.626	59	122901	374.452 ug/L	90
22) Diisopropyl ether	3.898	45	2888617	81.652 ug/L	92
23) 1,1-Dichloroethane	4.029	63	1743097	81.225 ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A10.D
Acq On : 29 Sep 2017 12:51 am
Operator : VOA101:MAB
Sample : I8260 L6
Misc : WG1047540
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 14:47:23 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.089	117	584793	81.752	ug/L		100
25) Acrylonitrile	4.084	53	148650	87.758	ug/L		97
26) Ethyl tert-butyl ether	4.253	59	2098216	82.276	ug/L		93
27) Vinyl acetate	4.269	43	1414581	85.344	ug/L		97
28) cis-1,2-Dichloroethene	4.564	96	842275	80.992	ug/L	#	81
29) 2,2-Dichloropropane	4.668	77	1218142	80.846	ug/L		97
30) Bromochloromethane	4.760	128	293214	83.892	ug/L	#	79
31) Cyclohexane	4.760	56	1928891	82.792	ug/L		75
32) Chloroform	4.842	83	1351055	82.169	ug/L		99
33) Ethyl acetate	4.957	43	388139	83.982	ug/L	#	94
34) Carbon tetrachloride	4.973	117	1141668	83.779	ug/L		98
35) Tetrahydrofuran	4.990	42	129921	73.129	ug/L		94
37) 1,1,1-Trichloroethane	5.044	97	1288078	82.748	ug/L		95
38) 2-Butanol	5.011	45	113131	366.930	ug/L	#	14
39) 2-Butanone	5.148	43	148987	81.850	ug/L		97
40) 1,1-Dichloropropene	5.175	75	1230539	83.541	ug/L		99
41) Benzene	5.432	78	3337481	80.885	ug/L	#	92
42) tert-Amyl methyl ether	5.546	73	1408037	82.299	ug/L	#	90
44) 1,2-Dichloroethane	5.644	62	852545	82.693	ug/L		96
45) Isobutyl alcohol	5.764	43	35452	399.078	ug/L	#	96
46) 2-Methyl-2-butanol	5.764	59	108118	378.534	ug/L	#	80
47) Methyl cyclohexane	6.043	83	1445586	84.247	ug/L	#	70
48) Trichloroethene	6.064	95	843894	81.273	ug/L		95
49) n-Butanol	6.043	56	476683	417.529	ug/L	#	73
50) Dibromomethane	6.528	93	319394	85.684	ug/L		97
51) 1,2-Dichloropropane	6.637	63	942293	82.974	ug/L	#	94
52) 4-penten-2-ol	6.610	45	90310	375.679	ug/L	#	1
53) 2-Chloroethyl vinyl ether	7.385	63	241342	83.980	ug/L	#	87
54) Bromodichloromethane	6.719	83	968379	83.789	ug/L		99
57) 1,4-Dioxane	6.948	88	30681	816.724	ug/L	#	80
58) cis-1,3-Dichloropropene	7.456	75	1200465	85.331	ug/L		97
61) Toluene	7.740	92	2085700	79.871	ug/L		96
62) 4-Methyl-2-pentanone	8.214	58	141857	84.097	ug/L		90
63) Tetrachloroethene	8.220	166	820687	81.659	ug/L		95
65) trans-1,3-Dichloropropene	8.263	75	924671	86.069	ug/L		97
66) 4-Methyl-2-pentanol	8.351	45	294430	390.630	ug/L	#	92
67) Ethyl methacrylate	8.471	69	552815	85.482	ug/L		99
68) 1,1,2-Trichloroethane	8.465	83	383082	82.744	ug/L		97
69) Chlorodibromomethane	8.694	129	555765	85.623	ug/L		96
70) 1,3-Dichloropropane	8.815	76	845971	83.103	ug/L		100

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A10.D
Acq On : 29 Sep 2017 12:51 am
Operator : VOA101:MAB
Sample : I8260 L6
Misc : WG1047540
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 14:47:23 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 1,2-Dibromoethane	8.995	107	426482	85.150	ug/L	99
72) 2-Hexanone	9.306	43	226404	82.086	ug/L	93
73) Chlorobenzene	9.698	112	2202801	80.786	ug/L	99
74) Ethylbenzene	9.737	91	4023504	81.383	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.786	131	718171	83.076	ug/L	99
76) p/m Xylene	9.939	106	3109276	164.115	ug/L	89
77) o Xylene	10.517	106	2787392	162.653	ug/L	89
78) Styrene	10.588	104	4470346	167.897	ug/L	97
80) Bromoform	10.621	173	253273	88.770	ug/L	99
82) Isopropylbenzene	10.921	105	4154065	81.473	ug/L	99
84) Bromobenzene	11.395	156	733015	80.975	ug/L	99
85) n-Propylbenzene	11.439	91	4790566	81.497	ug/L	96
86) 1,4-Dichlorobutane	11.466	55	918709	80.285	ug/L	94
87) 1,1,2,2-Tetrachloroethane	11.543	83	423248	80.361	ug/L	99
88) 4-Ethyltoluene	11.575	105	3863064	81.983	ug/L	99
89) 2-Chlorotoluene	11.625	91	2746875	81.203	ug/L	94
90) 1,3,5-Trimethylbenzene	11.685	105	3240334	80.839	ug/L	99
91) 1,2,3-Trichloropropane	11.690	75	338563	76.496	ug/L	96
92) trans-1,4-Dichloro-2-b...	11.750	53	142453	88.624	ug/L	93
93) 4-Chlorotoluene	11.826	91	2797827	81.803	ug/L	95
94) tert-Butylbenzene	12.056	119	2722949	81.089	ug/L	93
97) 1,2,4-Trimethylbenzene	12.137	105	3205231	81.569	ug/L	99
98) sec-Butylbenzene	12.263	105	3866008	81.590	ug/L	99
99) p-Isopropyltoluene	12.432	119	3217932	82.201	ug/L	96
100) 1,3-Dichlorobenzene	12.514	146	1517841	82.346	ug/L	99
101) 1,4-Dichlorobenzene	12.618	146	1485807	81.060	ug/L	99
102) p-Diethylbenzene	12.841	119	1796820	83.361	ug/L	98
103) n-Butylbenzene	12.907	91	2762689	82.862	ug/L	97
104) 1,2-Dichlorobenzene	13.087	146	1248195	81.286	ug/L	100
105) 1,2,4,5-Tetramethylben...	13.720	119	2444134	81.412	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.954	155	49144	84.850	ug/L	94
107) 1,3,5-Trichlorobenzene	13.982	180	774920	81.576	ug/L	96
108) Hexachlorobutadiene	14.620	225	246997	77.209	ug/L	97
109) 1,2,4-Trichlorobenzene	14.653	180	579935	80.826	ug/L	98
110) Naphthalene	14.986	128	980128	80.304	ug/L	100
111) 1,2,3-Trichlorobenzene	15.177	180	386185	79.300	ug/L	96

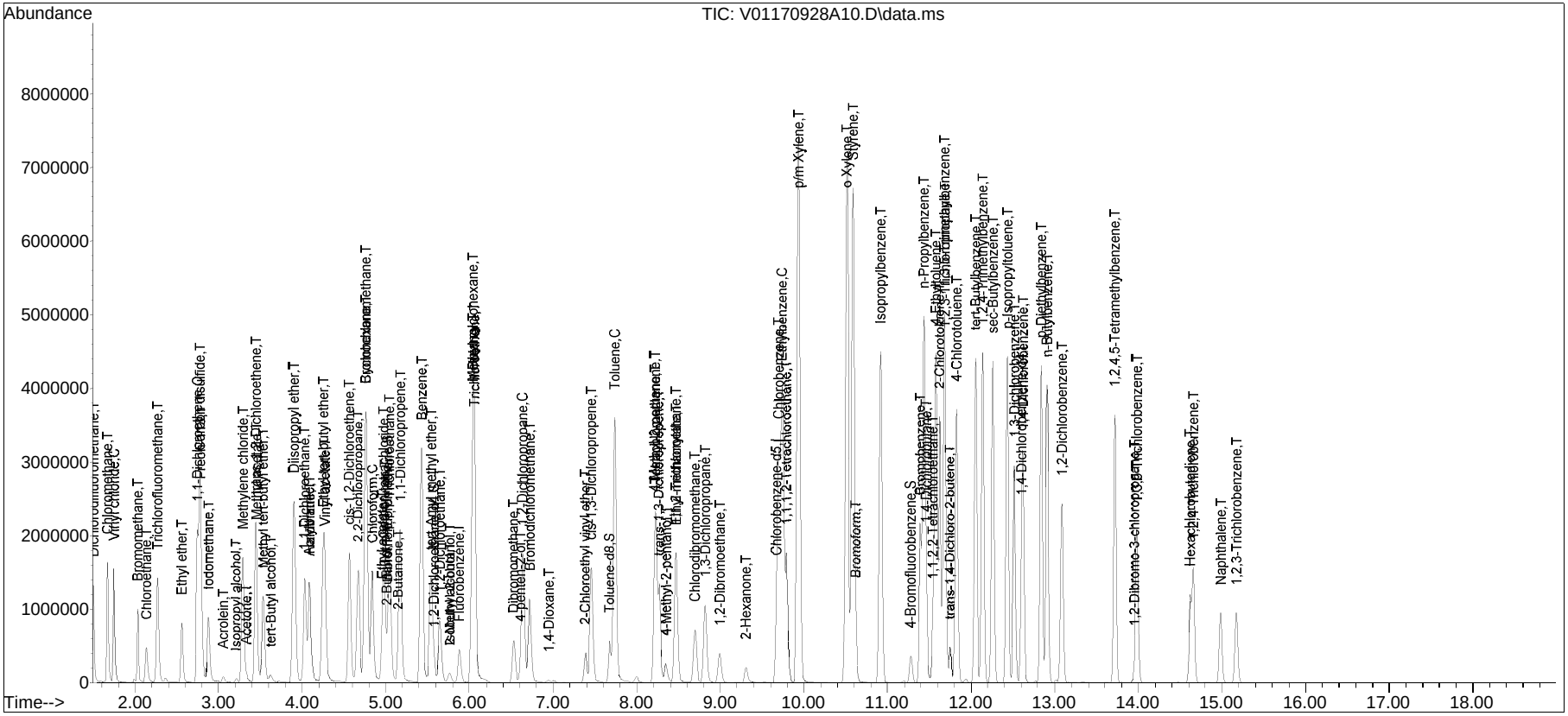
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A10.D
Acq On : 29 Sep 2017 12:51 am
Operator : VOA101:MAB
Sample : I8260 L6
Misc : WG1047540
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 14:47:23 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

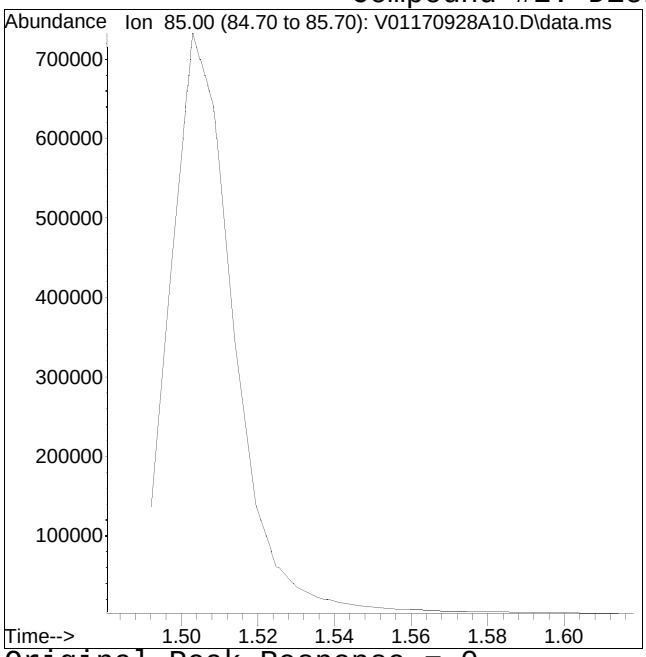
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•

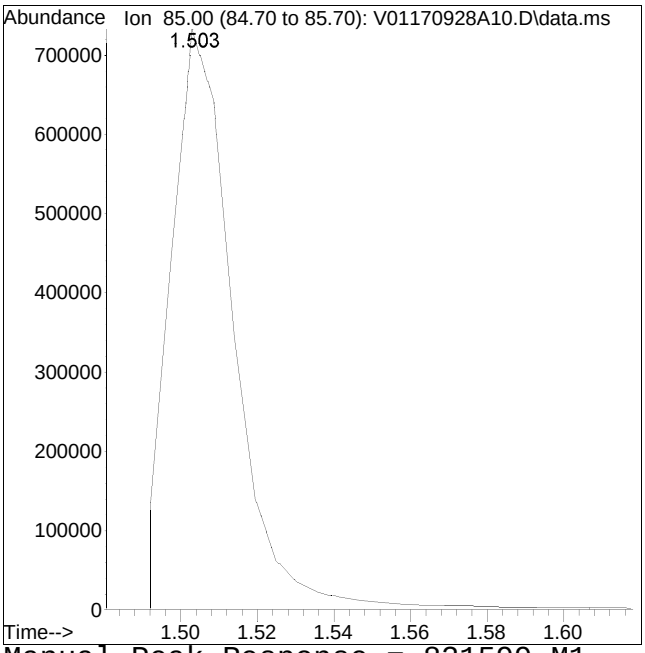


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A10.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 12:51 am Instrument : VOA 101
Sample : I8260 L6 Quant Date : 9/30/2017 2:47 pm

Compound #2: Dichlorodifluoromethane





Original Peak Response = 0 Manual Peak Response = 821599 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A11.D
Acq On : 29 Sep 2017 1:20 am
Operator : VOA101:MAB
Sample : I8260 L8
Misc : WG1047540
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 14:47:34 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.874	96	477221	10.000	ug/L		0.00
Standard Area 1 = 495996			Recovery = 96.21%				
59) Chlorobenzene-d5	9.671	117	336616	10.000	ug/L		0.00
Standard Area 1 = 352256			Recovery = 95.56%				
79) 1,4-Dichlorobenzene-d4	12.601	152	151276	10.000	ug/L		0.00
Standard Area 1 = 159281			Recovery = 94.97%				
System Monitoring Compounds							
36) Dibromofluoromethane	5.022	113	110081	9.858	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.58%				
43) 1,2-Dichloroethane-d4	5.574	65	108588	9.874	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.74%				
60) Toluene-d8	7.680	98	471493	10.073	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.73%				
83) 4-Bromofluorobenzene	11.275	95	171771	10.126	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.26%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.503	85	1236711M2	125.025	ug/L		
3) Chloromethane	1.672	50	2094429	121.152	ug/L		99
4) Vinyl chloride	1.749	62	1773585	125.651	ug/L		95
5) Bromomethane	2.032	94	630317	137.923	ug/L		100
6) Chloroethane	2.131	64	629999	115.078	ug/L		96
7) Trichlorofluoromethane	2.272	101	1825846	124.303	ug/L		100
8) Ethyl ether	2.556	74	400179	120.791	ug/L	#	68
10) 1,1-Dichloroethene	2.747	96	1030598	123.071	ug/L	#	74
11) Carbon disulfide	2.774	76	3056861	117.390	ug/L		99
12) Freon-113	2.785	101	1054592	123.812	ug/L	#	62
13) Iodomethane	2.878	142	1539922	137.162	ug/L		97
14) Acrolein	3.058	56	111453	124.314	ug/L		88
15) Methylene chloride	3.293	84	1081879	120.634	ug/L		77
16) Isopropyl alcohol	3.211	45	145149	576.511	ug/L	#	80
17) Acetone	3.331	43	135808	121.532	ug/L	#	87
18) trans-1,2-Dichloroethene	3.440	96	1196792	123.744	ug/L		78
19) Methyl acetate	3.446	43	335035	120.927	ug/L		95
20) Methyl tert-butyl ether	3.533	73	1884208	120.898	ug/L		91
21) tert-Butyl alcohol	3.626	59	191378	592.719	ug/L		90
22) Diisopropyl ether	3.898	45	4212966	121.055	ug/L		92
23) 1,1-Dichloroethane	4.029	63	2604141	123.352	ug/L		97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A11.D
Acq On : 29 Sep 2017 1:20 am
Operator : VOA101:MAB
Sample : I8260 L8
Misc : WG1047540
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 14:47:34 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.089	117	879166	124.935	ug/L		100
25) Acrylonitrile	4.084	53	216551	129.957	ug/L		97
26) Ethyl tert-butyl ether	4.253	59	3043384	121.310	ug/L		93
27) Vinyl acetate	4.269	43	2056310	126.109	ug/L		97
28) cis-1,2-Dichloroethene	4.564	96	1262782	123.433	ug/L	#	82
29) 2,2-Dichloropropane	4.668	77	1819327	122.740	ug/L		98
30) Bromochloromethane	4.766	128	421389	122.556	ug/L	#	79
31) Cyclohexane	4.761	56	2856512	124.633	ug/L		75
32) Chloroform	4.837	83	1996537	123.432	ug/L		99
33) Ethyl acetate	4.952	43	567530	124.825	ug/L	#	93
34) Carbon tetrachloride	4.973	117	1721107	128.386	ug/L		98
35) Tetrahydrofuran	4.995	42	191775	109.728	ug/L		94
37) 1,1,1-Trichloroethane	5.044	97	1935706	126.407	ug/L		95
38) 2-Butanol	5.012	45	178479	588.442	ug/L	#	12
39) 2-Butanone	5.143	43	220318	123.037	ug/L		96
40) 1,1-Dichloropropene	5.175	75	1834199	126.580	ug/L		99
41) Benzene	5.432	78	4945896	121.845	ug/L	#	92
42) tert-Amyl methyl ether	5.546	73	2037115	121.036	ug/L	#	90
44) 1,2-Dichloroethane	5.644	62	1243204	122.577	ug/L		96
45) Isobutyl alcohol	5.765	43	55080	636.936	ug/L		96
46) 2-Methyl-2-butanol	5.765	59	168606	600.061	ug/L	#	81
47) Methyl cyclohexane	6.043	83	2128954	126.122	ug/L	#	70
48) Trichloroethene	6.059	95	1242861	121.674	ug/L		95
49) n-Butanol	6.043	56	700233	623.469	ug/L	#	73
50) Dibromomethane	6.528	93	466916	127.328	ug/L		97
51) 1,2-Dichloropropane	6.638	63	1392132	124.610	ug/L	#	94
52) 4-penten-2-ol	6.610	45	152533	637.720	ug/L	#	1
53) 2-Chloroethyl vinyl ether	7.385	63	347651	122.970	ug/L	#	87
54) Bromodichloromethane	6.719	83	1436943	126.385	ug/L		99
57) 1,4-Dioxane	6.949	88	42146	1140.453	ug/L	#	80
58) cis-1,3-Dichloropropene	7.456	75	1769621	127.865	ug/L		97
61) Toluene	7.740	92	3102485	122.978	ug/L		96
62) 4-Methyl-2-pentanone	8.214	58	206932	126.982	ug/L		89
63) Tetrachloroethene	8.220	166	1220850	125.740	ug/L		96
65) trans-1,3-Dichloropropene	8.269	75	1369614	131.960	ug/L		97
66) 4-Methyl-2-pentanol	8.351	45	467020	641.361	ug/L	#	93
67) Ethyl methacrylate	8.471	69	814480	130.364	ug/L		97
68) 1,1,2-Trichloroethane	8.465	83	559274	125.040	ug/L		96
69) Chlorodibromomethane	8.695	129	828830	132.174	ug/L		95
70) 1,3-Dichloropropane	8.815	76	1239068	125.991	ug/L		100

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A11.D
Acq On : 29 Sep 2017 1:20 am
Operator : VOA101:MAB
Sample : I8260 L8
Misc : WG1047540
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 14:47:34 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 1,2-Dibromoethane	8.989	107	628285	129.845	ug/L	99
72) 2-Hexanone	9.306	43	339138	127.276	ug/L	93
73) Chlorobenzene	9.699	112	3264046	123.908	ug/L	99
74) Ethylbenzene	9.737	91	5993074	125.477	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.791	131	1063145	127.299	ug/L	98
76) p/m Xylene	9.944	106	4516093	246.738	ug/L	90
77) o Xylene	10.517	106	4042147	244.151	ug/L	90
78) Styrene	10.588	104	6417084	249.473	ug/L	97
80) Bromoform	10.621	173	369808	136.885	ug/L	99
82) Isopropylbenzene	10.921	105	6105500	126.463	ug/L	99
84) Bromobenzene	11.396	156	1071412	124.996	ug/L	99
85) n-Propylbenzene	11.439	91	7029763	126.298	ug/L	96
86) 1,4-Dichlorobutane	11.466	55	1317106	121.557	ug/L	94
87) 1,1,2,2-Tetrachloroethane	11.543	83	612328	122.781	ug/L	99
88) 4-Ethyltoluene	11.576	105	5683361	127.379	ug/L	99
89) 2-Chlorotoluene	11.625	91	3955261	123.483	ug/L	93
90) 1,3,5-Trimethylbenzene	11.685	105	4700661	123.849	ug/L	100
91) 1,2,3-Trichloropropane	11.696	75	482762	115.194	ug/L	97
92) trans-1,4-Dichloro-2-b...	11.750	53	205679	135.135	ug/L	96
93) 4-Chlorotoluene	11.827	91	4087781	126.222	ug/L	96
94) tert-Butylbenzene	12.056	119	4006719	126.013	ug/L	93
97) 1,2,4-Trimethylbenzene	12.143	105	4700035	126.319	ug/L	99
98) sec-Butylbenzene	12.263	105	5699498	127.031	ug/L	99
99) p-Isopropyltoluene	12.432	119	4718287	127.287	ug/L	96
100) 1,3-Dichlorobenzene	12.514	146	2204800	126.324	ug/L	100
101) 1,4-Dichlorobenzene	12.618	146	2161399	124.532	ug/L	98
102) p-Diethylbenzene	12.841	119	2669477	130.793	ug/L	98
103) n-Butylbenzene	12.907	91	4096451	129.757	ug/L	97
104) 1,2-Dichlorobenzene	13.087	146	1797520	123.626	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.720	119	3604429	126.794	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.955	155	72187	131.626	ug/L	96
107) 1,3,5-Trichlorobenzene	13.987	180	1148633	127.700	ug/L	97
108) Hexachlorobutadiene	14.620	225	397334	131.169	ug/L	98
109) 1,2,4-Trichlorobenzene	14.653	180	855869	125.973	ug/L	98
110) Naphthalene	14.980	128	1406321	121.686	ug/L	100
111) 1,2,3-Trichlorobenzene	15.177	180	563930	122.293	ug/L	96

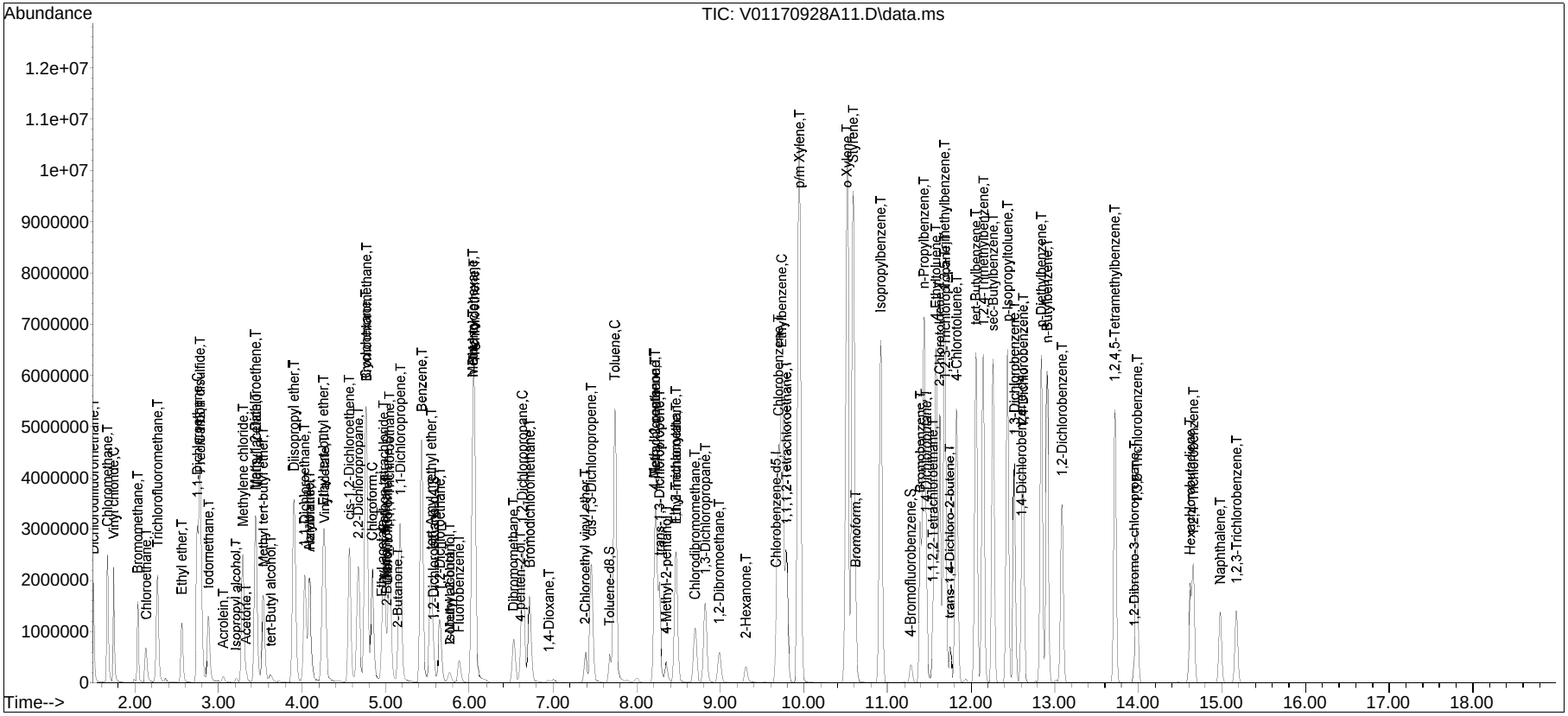
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A11.D
Acq On : 29 Sep 2017 1:20 am
Operator : VOA101:MAB
Sample : I8260 L8
Misc : WG1047540
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 14:47:34 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

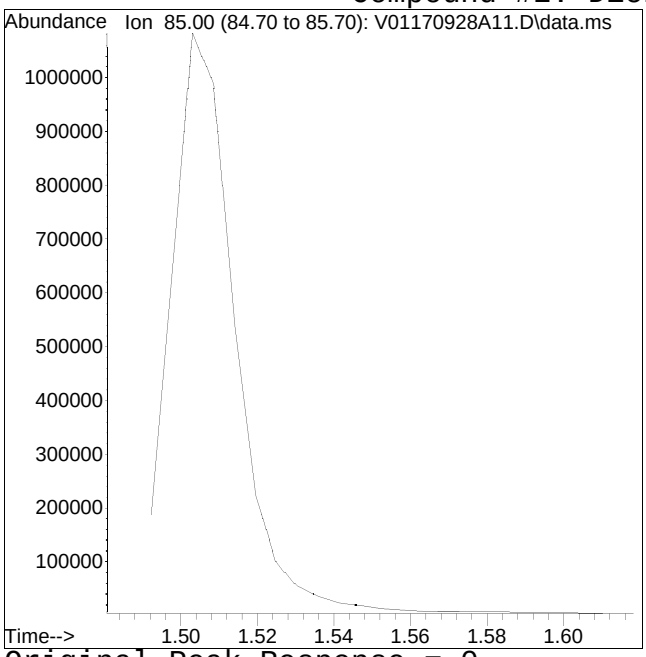
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•



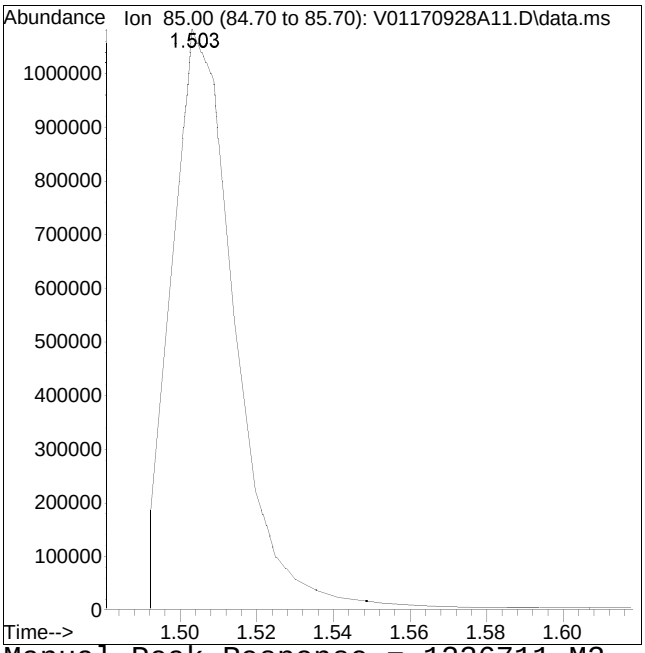
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A11.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 1:20 am Instrument : VOA 101
Sample : I8260 L8 Quant Date : 9/30/2017 2:47 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 0



Manual Peak Response = 1236711 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A12.D
Acq On : 29 Sep 2017 1:48 am
Operator : VOA101:MAB
Sample : I8260 L10
Misc : WG1047540
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 14:47:44 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.874	96	472362	10.000	ug/L	0.00
Standard Area 1 = 495996			Recovery = 95.24%			
59) Chlorobenzene-d5	9.677	117	334323	10.000	ug/L	0.00
Standard Area 1 = 352256			Recovery = 94.91%			
79) 1,4-Dichlorobenzene-d4	12.602	152	143360	10.000	ug/L	0.00
Standard Area 1 = 159281			Recovery = 90.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.023	113	108959	9.858	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.58%			
43) 1,2-Dichloroethane-d4	5.574	65	107559	9.881	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.81%			
60) Toluene-d8	7.680	98	470782	10.127	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.27%			
83) 4-Bromofluorobenzene	11.276	95	170336	10.596	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.503	85	2002290M2	204.503	ug/L	
3) Chloromethane	1.672	50	3430018	200.450	ug/L	99
4) Vinyl chloride	1.749	62	2851294	204.080	ug/L	96
5) Bromomethane	2.033	94	1042880	230.545	ug/L	100
6) Chloroethane	2.125	64	756369	139.583	ug/L	97
7) Trichlorofluoromethane	2.267	101	2977522	204.793	ug/L	99
8) Ethyl ether	2.556	74	632182	192.782	ug/L	69
10) 1,1-Dichloroethene	2.742	96	1654647	199.625	ug/L #	74
11) Carbon disulfide	2.775	76	4907315	190.390	ug/L	99
12) Freon-113	2.780	101	1678618	199.102	ug/L #	63
13) Iodomethane	2.878	142	2332229	209.870	ug/L	98
14) Acrolein	3.058	56	173939	196.007	ug/L	88
15) Methylene chloride	3.287	84	1740384	196.056	ug/L	77
16) Isopropyl alcohol	3.217	45	224834	902.195	ug/L #	79
17) Acetone	3.331	43	222127	202.463	ug/L #	87
18) trans-1,2-Dichloroethene	3.440	96	1923165	200.894	ug/L	77
19) Methyl acetate	3.446	43	548235	199.986	ug/L	95
20) Methyl tert-butyl ether	3.533	73	3003967	194.729	ug/L	92
21) tert-Butyl alcohol	3.631	59	303741	950.396	ug/L	89
22) Diisopropyl ether	3.899	45	6662306	193.403	ug/L	92
23) 1,1-Dichloroethane	4.030	63	4198821	200.934	ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A12.D
Acq On : 29 Sep 2017 1:48 am
Operator : VOA101:MAB
Sample : I8260 L10
Misc : WG1047540
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 14:47:44 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.090	117	1413413	202.921	ug/L		100
25) Acrylonitrile	4.079	53	344434	208.828	ug/L		97
26) Ethyl tert-butyl ether	4.253	59	4833894	194.662	ug/L		95
27) Vinyl acetate	4.270	43	3107012	192.507	ug/L		97
28) cis-1,2-Dichloroethene	4.564	96	2021796	199.657	ug/L	#	82
29) 2,2-Dichloropropane	4.668	77	2916608	198.791	ug/L		98
30) Bromochloromethane	4.766	128	612213	179.886	ug/L	#	79
31) Cyclohexane	4.761	56	4513665	198.963	ug/L		75
32) Chloroform	4.837	83	3191251	199.322	ug/L		99
33) Ethyl acetate	4.952	43	889421	197.636	ug/L	#	93
34) Carbon tetrachloride	4.973	117	2797097	210.796	ug/L		98
35) Tetrahydrofuran	4.995	42	297923	172.215	ug/L		94
37) 1,1,1-Trichloroethane	5.044	97	3126576	206.274	ug/L		96
38) 2-Butanol	5.012	45	274267	913.555	ug/L	#	14
39) 2-Butanone	5.143	43	354187	199.831	ug/L		96
40) 1,1-Dichloropropene	5.175	75	2941510	205.085	ug/L		99
41) Benzene	5.432	78	7887152	196.303	ug/L	#	92
42) tert-Amyl methyl ether	5.546	73	3214470	192.953	ug/L	#	90
44) 1,2-Dichloroethane	5.645	62	1985702	197.800	ug/L		96
45) Isobutyl alcohol	5.765	43	83496	981.581	ug/L		97
46) 2-Methyl-2-butanol	5.765	59	258545	929.615	ug/L	#	81
47) Methyl cyclohexane	6.043	83	3349082	200.445	ug/L	#	70
48) Trichloroethene	6.065	95	1959128	193.768	ug/L		95
49) n-Butanol	6.043	56	1096966	986.757	ug/L	#	72
50) Dibromomethane	6.529	93	747807	206.025	ug/L		96
51) 1,2-Dichloropropane	6.638	63	2215584	200.357	ug/L	#	94
52) 4-penten-2-ol	6.610	45	241278	1013.054	ug/L	#	1
53) 2-Chloroethyl vinyl ether	7.385	63	565724	202.165	ug/L		90
54) Bromodichloromethane	6.720	83	2320373	206.186	ug/L		99
57) 1,4-Dioxane	6.943	88	65545	1791.864	ug/L	#	80
58) cis-1,3-Dichloropropene	7.456	75	2841866	207.453	ug/L		97
61) Toluene	7.740	92	4931354	196.813	ug/L		96
62) 4-Methyl-2-pentanone	8.215	58	322927	199.521	ug/L		89
63) Tetrachloroethene	8.226	166	1952058	202.429	ug/L		96
65) trans-1,3-Dichloropropene	8.269	75	2201391	213.554	ug/L		98
66) 4-Methyl-2-pentanol	8.351	45	734081	1015.032	ug/L	#	93
67) Ethyl methacrylate	8.471	69	1291447	208.125	ug/L		98
68) 1,1,2-Trichloroethane	8.466	83	883624	198.912	ug/L		97
69) Chlorodibromomethane	8.695	129	1345929	216.109	ug/L		96
70) 1,3-Dichloropropane	8.815	76	1995482	204.297	ug/L		100

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A12.D
Acq On : 29 Sep 2017 1:48 am
Operator : VOA101:MAB
Sample : I8260 L10
Misc : WG1047540
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 14:47:44 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 1,2-Dibromoethane	8.989	107	1017749	211.777	ug/L	99
72) 2-Hexanone	9.306	43	547141	206.746	ug/L	93
73) Chlorobenzene	9.699	112	5182855	198.098	ug/L	99
74) Ethylbenzene	9.742	91	9435059	198.897	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.791	131	1687588	203.454	ug/L	98
76) p/m Xylene	9.944	106	6817522	375.031	ug/L	91
77) o Xylene	10.523	106	6133688	373.024	ug/L	91
78) Styrene	10.594	104	9617843	376.471	ug/L	99
80) Bromoform	10.626	173	576688	225.249	ug/L	99
82) Isopropylbenzene	10.921	105	9493442	207.496	ug/L	99
84) Bromobenzene	11.396	156	1688196	207.829	ug/L	100
85) n-Propylbenzene	11.445	91	10913493	206.900	ug/L	97
86) 1,4-Dichlorobutane	11.467	55	2035583	198.239	ug/L	94
87) 1,1,2,2-Tetrachloroethane	11.543	83	946961	200.365	ug/L	99
88) 4-Ethyltoluene	11.581	105	8738841	206.675	ug/L	99
89) 2-Chlorotoluene	11.630	91	6207665	204.505	ug/L	95
90) 1,3,5-Trimethylbenzene	11.685	105	7158723	199.026	ug/L	100
91) 1,2,3-Trichloropropane	11.696	75	729056	183.570	ug/L	97
92) trans-1,4-Dichloro-2-b...	11.750	53	324030	224.650	ug/L	94
93) 4-Chlorotoluene	11.832	91	6317850	205.854	ug/L	96
94) tert-Butylbenzene	12.056	119	6191035	205.461	ug/L	94
97) 1,2,4-Trimethylbenzene	12.143	105	7193814	204.018	ug/L	100
98) sec-Butylbenzene	12.263	105	8771344	206.292	ug/L	99
99) p-Isopropyltoluene	12.432	119	7234209	205.936	ug/L	97
100) 1,3-Dichlorobenzene	12.514	146	3394818	205.247	ug/L	100
101) 1,4-Dichlorobenzene	12.618	146	3302680	200.796	ug/L	99
102) p-Diethylbenzene	12.847	119	4096461	211.791	ug/L	99
103) n-Butylbenzene	12.907	91	6303557	210.693	ug/L	98
104) 1,2-Dichlorobenzene	13.087	146	2767307	200.833	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.726	119	5636593	209.229	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.955	155	113163	217.735	ug/L	96
107) 1,3,5-Trichlorobenzene	13.987	180	1802309	211.436	ug/L	96
108) Hexachlorobutadiene	14.620	225	638757	222.512	ug/L	97
109) 1,2,4-Trichlorobenzene	14.653	180	1359028	211.077	ug/L	98
110) Naphthalene	14.980	128	2251845	205.607	ug/L	100
111) 1,2,3-Trichlorobenzene	15.177	180	900261	206.009	ug/L	96

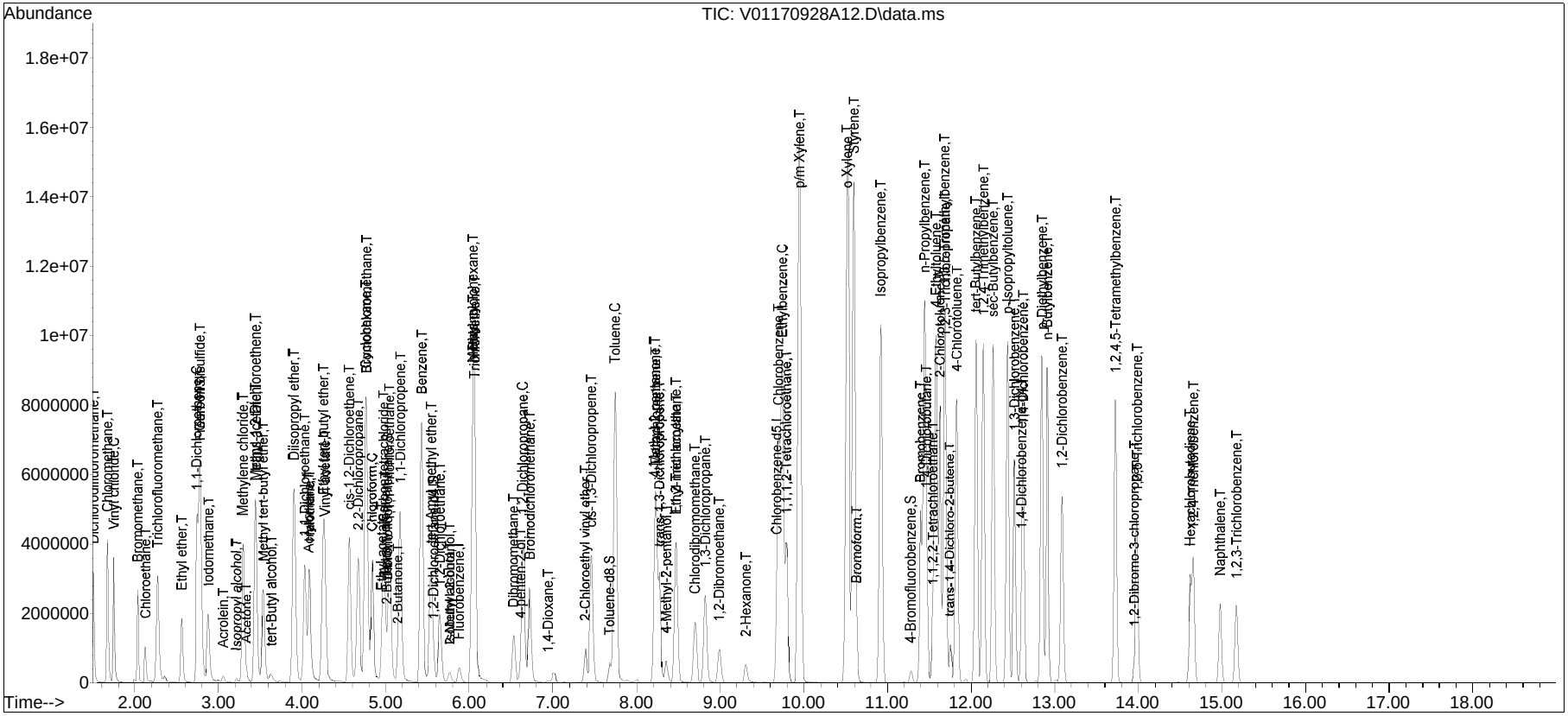
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A12.D
Acq On : 29 Sep 2017 1:48 am
Operator : VOA101:MAB
Sample : I8260 L10
Misc : WG1047540
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 30 14:47:44 2017
Quant Method : I:\VOLATILES\VOA101\2017\Methods\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

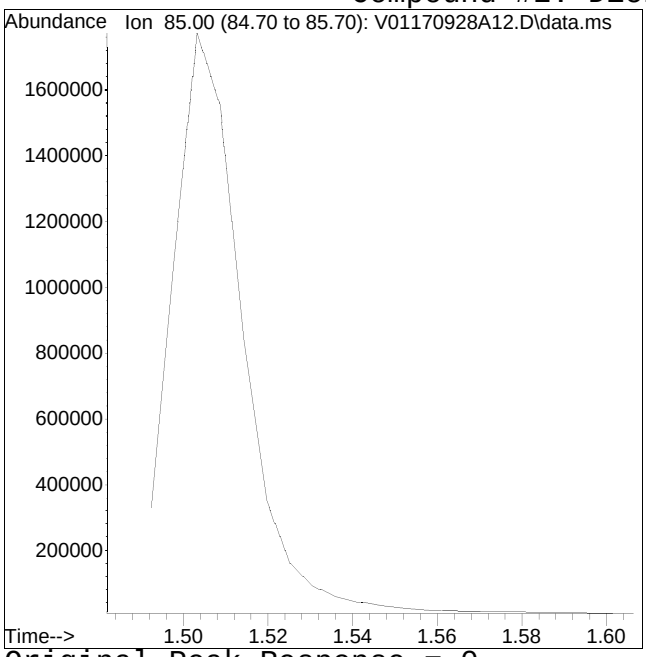
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•

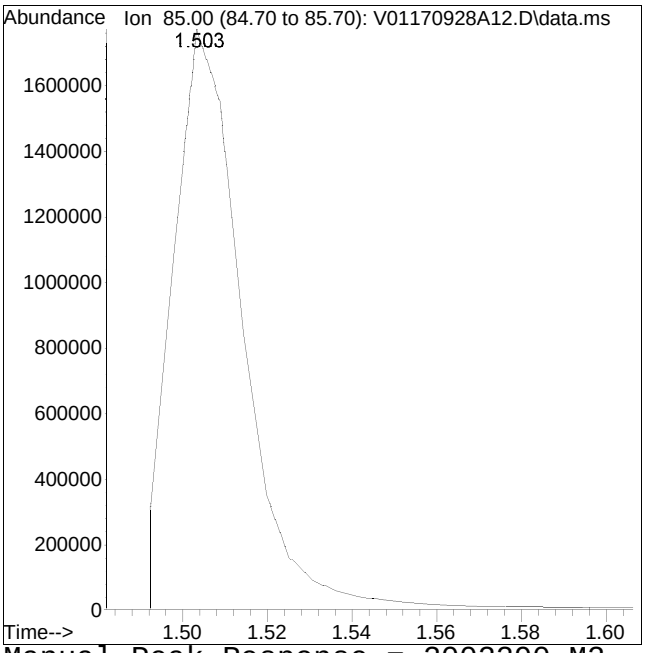


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A12.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 1:48 am Instrument : VOA 101
Sample : I8260 L10 Quant Date : 9/30/2017 2:47 pm

Compound #2: Dichlorodifluoromethane





Original Peak Response = 0 Manual Peak Response = 2002290 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
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	95	0.00
2	T	Dichlorodifluoromethane	0.207	0.222	-7.2	101	0.00
3	T	Chloromethane	0.362	0.372	-2.8	100	0.00
4	C	Vinyl chloride	0.296	0.301	-1.7	96	0.00
5	T	Bromomethane	0.096	0.099	-3.1	111	0.00
6	T	Chloroethane	0.115	0.118	-2.6	92	0.00
7	T	Trichlorofluoromethane	0.308	0.312	-1.3	97	0.00
8	T	Ethyl ether	0.069	0.075	-8.7	101	0.00
10	C	1,1-Dichloroethene	0.175	0.169	3.4	91	0.00
11	T	Carbon disulfide	0.546	0.573	-4.9	100	0.00
12	T	Freon-113	0.178	0.197	-10.7	103	0.00
13	T	Iodomethane	0.235	0.160	31.9#	65	0.00
14	T	Acrolein	0.019	0.012	36.8#	61	0.00
15	T	Methylene chloride	0.188	0.177	5.9	91	0.00
16	T	Isopropyl alcohol	0.00528	0.00578	-9.5	95	0.00
17	T	Acetone	* 10.000	9.722	2.8	108	0.00
18	T	trans-1,2-Dichloroethene	0.203	0.190	6.4	91	0.00
19	T	Methyl acetate	* 10.000	11.099	-11.0	115	0.00
20	T	Methyl tert-butyl ether	0.327	0.322	1.5	94	0.00
21	T	tert-Butyl alcohol	0.00677	0.00831	-22.7#	124	0.00
22	T	Diisopropyl ether	0.729	0.772	-5.9	101	0.00
23	T	1,1-Dichloroethane	0.442	0.431	2.5	94	0.00
24	T	Halothane	0.147	0.150	-2.0	99	0.00
25	T	Acrylonitrile	0.035	0.033	5.7	96	0.00
26	T	Ethyl tert-butyl ether	0.526	0.566	-7.6	102	0.00
27	T	Vinyl acetate	0.342	0.309	9.6	88	0.00
28	T	cis-1,2-Dichloroethene	0.214	0.216	-0.9	96	0.00
29	T	2,2-Dichloropropane	0.311	0.285	8.4	88	0.00
30	T	Bromochloromethane	0.072	0.076	-5.6	97	0.00
31	T	Cyclohexane	0.480	0.541	-12.7	106	0.00
32	C	Chloroform	0.339	0.338	0.3	97	0.00
33	T	Ethyl acetate	0.095	0.088	7.4	91	0.00
34	T	Carbon tetrachloride	0.281	0.270	3.9	94	0.00
35	T	Tetrahydrofuran	0.037	0.036	2.7	108	0.00
36	S	Dibromofluoromethane	0.234	0.237	-1.3	96	0.00
37	T	1,1,1-Trichloroethane	0.321	0.312	2.8	94	0.00
38	T	2-Butanol	0.00636	0.00597	6.1	94	0.00
39	T	2-Butanone	0.038	0.040	-5.3	117	0.00
40	T	1,1-Dichloropropene	0.304	0.305	-0.3	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
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)
41	T	Benzene	0.851	0.850	0.1	97	0.00
42	T	tert-Amyl methyl ether	0.353	0.380	-7.6	104	0.00
43	S	1,2-Dichloroethane-d4	0.230	0.229	0.4	95	0.00
44	T	1,2-Dichloroethane	0.213	0.206	3.3	93	0.00
45	T	Isobutyl alcohol	* 50.000	41.853	16.3	94	0.00
46	T	2-Methyl-2-butanol	0.00589	0.00645	-9.5	93	0.00
47	T	Methyl cyclohexane	0.354	0.390	-10.2	102	0.00
48	T	Trichloroethene	0.214	0.209	2.3	97	0.00
49	T	n-Butanol	0.024	0.026	-8.3	103	0.00
50	T	Dibromomethane	0.077	0.078	-1.3	97	0.00
51	C	1,2-Dichloropropane	0.234	0.239	-2.1	97	0.00
52	T	4-penten-2-ol	* 50.000	45.773	8.5	82	0.01
53	T	2-Chloroethyl vinyl ether	0.059	0.060	-1.7	97	0.00
54	T	Bromodichloromethane	0.238	0.245	-2.9	102	0.00
57	T	1,4-Dioxane	0.00077	0.00083	-7.8	94	0.00
58	T	cis-1,3-Dichloropropene	0.290	0.301	-3.8	100	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
60	S	Toluene-d8	1.391	1.381	0.7	96	0.00
61	C	Toluene	0.749	0.770	-2.8	101	0.00
62	T	4-Methyl-2-pentanone	0.048	0.050	-4.2	101	0.00
63	T	Tetrachloroethene	0.288	0.288	0.0	97	0.00
65	T	trans-1,3-Dichloropropene	0.308	0.291	5.5	92	0.00
66	T	4-Methyl-2-pentanol	0.022	0.020	9.1	86	0.00
67	T	Ethyl methacrylate	0.186	0.188	-1.1	100	0.00
68	T	1,1,2-Trichloroethane	0.133	0.140	-5.3	100	0.00
69	T	Chlorodibromomethane	0.186	0.190	-2.2	102	0.00
70	T	1,3-Dichloropropane	0.292	0.306	-4.8	101	0.00
71	T	1,2-Dibromoethane	0.144	0.151	-4.9	100	0.00
72	T	2-Hexanone	0.079	0.072	8.9	98	0.00
73	T	Chlorobenzene	0.783	0.802	-2.4	101	0.00
74	C	Ethylbenzene	1.419	1.496	-5.4	103	0.00
75	T	1,1,1,2-Tetrachloroethane	0.248	0.256	-3.2	103	0.00
76	T	p/m Xylene	0.544	0.577	-6.1	101	0.00
77	T	o Xylene	0.492	0.541	-10.0	105	0.00
78	T	Styrene	0.764	0.858	-12.3	107	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
80	T	Bromoform	0.179	0.193	-7.8	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
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)
82	T	Isopropylbenzene	3.191	3.340	-4.7	102	0.00
83	S	4-Bromofluorobenzene	1.121	1.111	0.9	96	0.00
84	T	Bromobenzene	0.567	0.596	-5.1	103	0.00
85	T	n-Propylbenzene	3.679	3.841	-4.4	101	0.00
86	T	1,4-Dichlorobutane	0.716	0.787	-9.9	107	0.00
87	T	1,1,2,2-Tetrachloroethane	0.330	0.359	-8.8	106	0.00
88	T	4-Ethyltoluene	2.949	3.362	-14.0	111	0.00
89	T	2-Chlorotoluene	2.117	2.162	-2.1	102	0.00
90	T	1,3,5-Trimethylbenzene	2.509	2.673	-6.5	104	0.00
91	T	1,2,3-Trichloropropane	0.277	0.309	-11.6	109	0.00
92	T	trans-1,4-Dichloro-2-butene	0.101	0.090	10.9	93	0.00
93	T	4-Chlorotoluene	2.141	2.201	-2.8	101	0.00
94	T	tert-Butylbenzene	2.102	2.208	-5.0	102	0.00
97	T	1,2,4-Trimethylbenzene	2.460	2.609	-6.1	103	0.00
98	T	sec-Butylbenzene	2.966	3.204	-8.0	104	0.00
99	T	p-Isopropyltoluene	2.450	2.606	-6.4	103	0.00
100	T	1,3-Dichlorobenzene	1.154	1.190	-3.1	101	0.00
101	T	1,4-Dichlorobenzene	1.147	1.191	-3.8	103	0.00
102	T	p-Diethylbenzene	1.349	1.479	-9.6	106	0.00
103	T	n-Butylbenzene	2.087	2.246	-7.6	105	0.00
104	T	1,2-Dichlorobenzene	0.961	0.985	-2.5	102	0.00
105	T	1,2,4,5-Tetramethylbenzene	1.879	2.059	-9.6	107	0.00
106	T	1,2-Dibromo-3-chloropropane	0.036	0.038	-5.6	105	0.00
107	T	1,3,5-Trichlorobenzene	0.595	0.633	-6.4	104	0.00
108	T	Hexachlorobutadiene	0.200	0.218	-9.0	114	0.00
109	T	1,2,4-Trichlorobenzene	0.449	0.484	-7.8	105	0.00
110	T	Naphthalene	0.764	0.809	-5.9	108	0.00
111	T	1,2,3-Trichlorobenzene	0.305	0.327	-7.2	107	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\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.874	96	473803	10.000 ug/L	0.00
Standard Area 1 = 497847			Recovery = 95.17%		
59) Chlorobenzene-d5	9.677	117	338461	10.000 ug/L	0.00
Standard Area 1 = 352256			Recovery = 96.08%		
79) 1,4-Dichlorobenzene-d4	12.601	152	151886	10.000 ug/L	0.00
Standard Area 1 = 159191			Recovery = 95.41%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.028	113	112231	10.123 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%		
43) 1,2-Dichloroethane-d4	5.579	65	108684	9.954 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.54%		
60) Toluene-d8	7.680	98	467520	9.934 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.34%		
83) 4-Bromofluorobenzene	11.275	95	168699	9.905 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.05%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.509	85	104966M2	10.688 ug/L	
3) Chloromethane	1.678	50	176412	10.278 ug/L	98
4) Vinyl chloride	1.754	62	142412	10.162 ug/L	96
5) Bromomethane	2.038	94	46881	10.332 ug/L	100
6) Chloroethane	2.147	64	56044	10.311 ug/L	97
7) Trichlorofluoromethane	2.278	101	147898	10.141 ug/L	99
8) Ethyl ether	2.562	74	35668	10.844 ug/L #	66
10) 1,1-Dichloroethene	2.747	96	79959	9.617 ug/L #	76
11) Carbon disulfide	2.774	76	271264	10.492 ug/L	99
12) Freon-113	2.785	101	93212	11.022 ug/L #	63
13) Iodomethane	2.884	142	75690	6.790 ug/L	95
14) Acrolein	3.069	56	5539	6.223 ug/L	84
15) Methylene chloride	3.293	84	83885	9.421 ug/L	77
16) Isopropyl alcohol	3.216	45	13687	54.755 ug/L #	81
17) Acetone	3.342	43	13301M1	9.722 ug/L	
18) trans-1,2-Dichloroethene	3.446	96	89907	9.363 ug/L	77
19) Methyl acetate	3.456	43	30805	11.099 ug/L	94
20) Methyl tert-butyl ether	3.538	73	152767	9.873 ug/L	90
21) tert-Butyl alcohol	3.631	59	19685	61.406 ug/L	90
22) Diisopropyl ether	3.898	45	365768	10.586 ug/L	91
23) 1,1-Dichloroethane	4.035	63	204102	9.738 ug/L	97

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.089	117	70854	10.141	ug/L		98
25) Acrylonitrile	4.100	53	15744	9.516	ug/L		91
26) Ethyl tert-butyl ether	4.253	59	268149	10.766	ug/L		90
27) Vinyl acetate	4.280	43	146435	9.045	ug/L	#	95
28) cis-1,2-Dichloroethene	4.570	96	102519	10.093	ug/L	#	84
29) 2,2-Dichloropropane	4.668	77	134817	9.161	ug/L		95
30) Bromochloromethane	4.766	128	35898	10.516	ug/L	#	79
31) Cyclohexane	4.761	56	256530	11.273	ug/L		75
32) Chloroform	4.842	83	160188	9.975	ug/L		98
33) Ethyl acetate	4.968	43	41762	9.252	ug/L	#	95
34) Carbon tetrachloride	4.979	117	127817	9.603	ug/L		99
35) Tetrahydrofuran	4.995	42	17194	9.909	ug/L	#	85
37) 1,1,1-Trichloroethane	5.044	97	147996	9.734	ug/L		95
38) 2-Butanol	5.022	45	14151	46.992	ug/L	#	3
39) 2-Butanone	5.159	43	18888M1	10.624	ug/L		
40) 1,1-Dichloropropene	5.175	75	144575	10.049	ug/L		100
41) Benzene	5.432	78	402919	9.998	ug/L	#	91
42) tert-Amyl methyl ether	5.546	73	180195	10.784	ug/L	#	89
44) 1,2-Dichloroethane	5.650	62	97639	9.696	ug/L		95
45) Isobutyl alcohol	5.764	43	4500	41.853	ug/L	#	66
46) 2-Methyl-2-butanol	5.770	59	15276	54.759	ug/L	#	80
47) Methyl cyclohexane	6.048	83	184704	11.021	ug/L	#	69
48) Trichloroethene	6.065	95	99163	9.778	ug/L		93
49) n-Butanol	6.043	56	61746	55.374	ug/L	#	76
50) Dibromomethane	6.539	93	37180	10.212	ug/L		97
51) 1,2-Dichloropropane	6.643	63	113091	10.196	ug/L	#	94
52) 4-penten-2-ol	6.670	45	8595M1	45.773	ug/L		
53) 2-Chloroethyl vinyl ether	7.396	63	28414	10.123	ug/L		90
54) Bromodichloromethane	6.719	83	116286	10.302	ug/L		99
57) 1,4-Dioxane	6.943	88	19695	536.783	ug/L	#	75
58) cis-1,3-Dichloropropene	7.461	75	142484	10.370	ug/L		93
61) Toluene	7.740	92	260614	10.274	ug/L		96
62) 4-Methyl-2-pentanone	8.225	58	17057	10.410	ug/L		96
63) Tetrachloroethene	8.225	166	97552	9.993	ug/L		96
65) trans-1,3-Dichloropropene	8.274	75	98534	9.442	ug/L		94
66) 4-Methyl-2-pentanol	8.362	45	34124	46.607	ug/L	#	90
67) Ethyl methacrylate	8.476	69	63592	10.123	ug/L		95
68) 1,1,2-Trichloroethane	8.471	83	47553	10.574	ug/L		96
69) Chlorodibromomethane	8.695	129	64394	10.213	ug/L		95
70) 1,3-Dichloropropane	8.820	76	103473	10.464	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\170928A\V01170928A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 1,2-Dibromoethane	8.995	107	51167	10.517	ug/L	98
72) 2-Hexanone	9.327	43	24256	9.053	ug/L	96
73) Chlorobenzene	9.699	112	271515	10.251	ug/L	100
74) Ethylbenzene	9.737	91	506446	10.546	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.786	131	86491	10.300	ug/L	100
76) p/m Xylene	9.939	106	390857	21.238	ug/L	88
77) o Xylene	10.512	106	366049	21.989	ug/L	89
78) Styrene	10.588	104	580955	22.462	ug/L	97
80) Bromoform	10.621	173	29342	10.817	ug/L	99
82) Isopropylbenzene	10.921	105	507286	10.465	ug/L	99
84) Bromobenzene	11.401	156	90469	10.512	ug/L	99
85) n-Propylbenzene	11.439	91	583322	10.438	ug/L	96
86) 1,4-Dichlorobutane	11.466	55	119550	10.989	ug/L	95
87) 1,1,2,2-Tetrachloroethane	11.543	83	54597	10.904	ug/L	100
88) 4-Ethyltoluene	11.576	105	510599	11.398	ug/L	99
89) 2-Chlorotoluene	11.625	91	328421	10.212	ug/L	93
90) 1,3,5-Trimethylbenzene	11.679	105	405997	10.654	ug/L	99
91) 1,2,3-Trichloropropane	11.696	75	46923M1	11.152	ug/L	
92) trans-1,4-Dichloro-2-b...	11.756	53	13644	8.928	ug/L	90
93) 4-Chlorotoluene	11.827	91	334291	10.281	ug/L	94
94) tert-Butylbenzene	12.050	119	335401	10.506	ug/L	93
97) 1,2,4-Trimethylbenzene	12.138	105	396312	10.609	ug/L	99
98) sec-Butylbenzene	12.263	105	486614	10.802	ug/L	99
99) p-Isopropyltoluene	12.432	119	395876	10.637	ug/L	97
100) 1,3-Dichlorobenzene	12.514	146	180775	10.316	ug/L	99
101) 1,4-Dichlorobenzene	12.618	146	180828	10.377	ug/L	99
102) p-Diethylbenzene	12.841	119	224611	10.961	ug/L	98
103) n-Butylbenzene	12.907	91	341181	10.764	ug/L	98
104) 1,2-Dichlorobenzene	13.087	146	149671	10.252	ug/L	100
105) 1,2,4,5-Tetramethylben...	13.720	119	312704	10.956	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.960	155	5697	10.346	ug/L	99
107) 1,3,5-Trichlorobenzene	13.982	180	96147	10.646	ug/L	96
108) Hexachlorobutadiene	14.620	225	33182	10.910	ug/L	98
109) 1,2,4-Trichlorobenzene	14.653	180	73552	10.782	ug/L	98
110) Naphthalene	14.986	128	122905	10.592	ug/L	100
111) 1,2,3-Trichlorobenzene	15.177	180	49742	10.744	ug/L	95

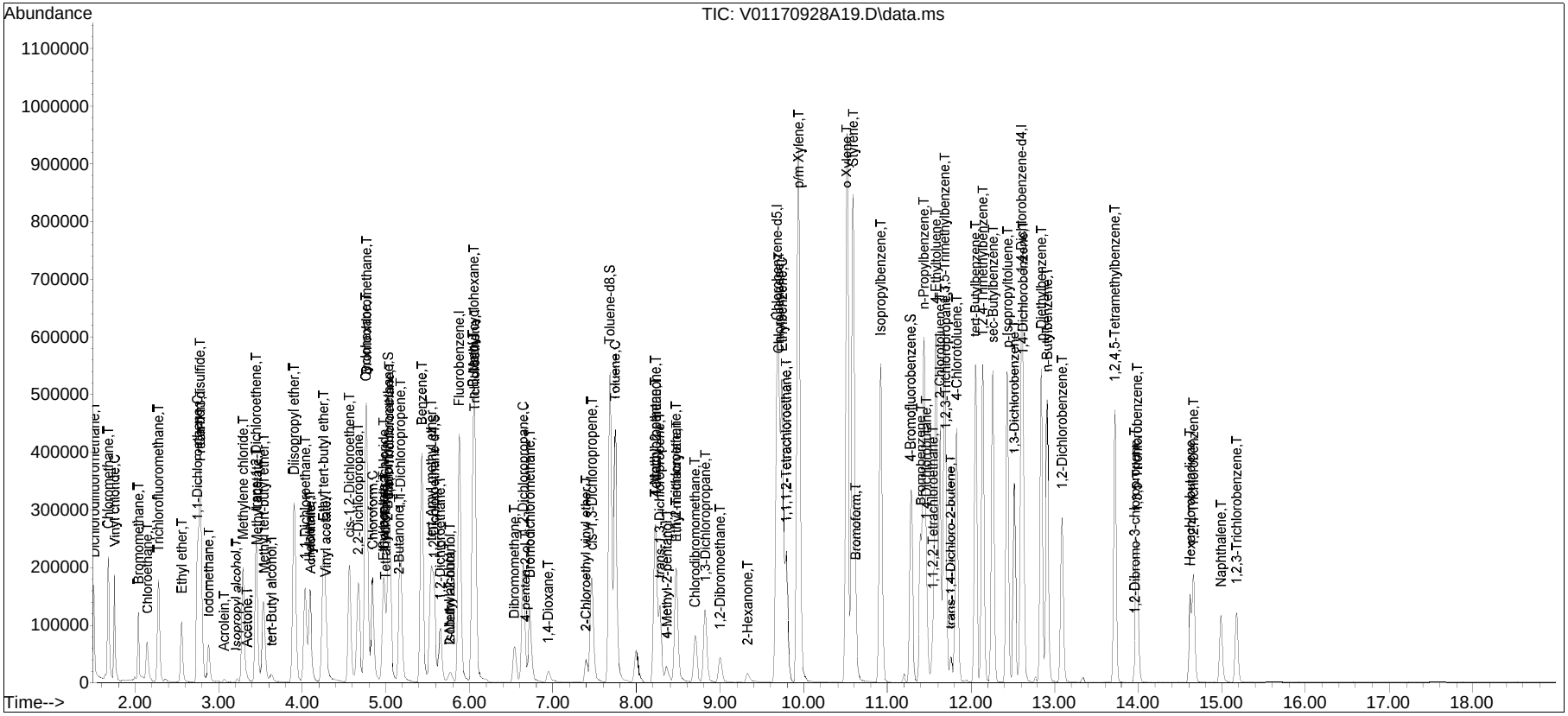
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\170928A\
Data File : V01170928A19.D
Acq On : 29 Sep 2017 5:07 am
Operator : VOA101:MAB
Sample : C8260 L3
Misc : WG1047540
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 30 14:30:11 2017
Quant Method : I:\VOLATILES\VOA101\2017\170928A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

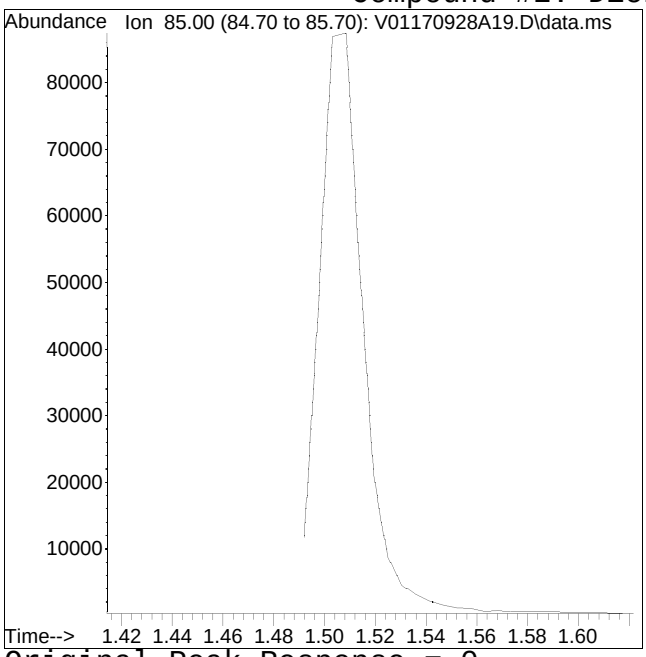
Sub List : 8260-CurveAlc - All compounds listed\V01170928A08.D•



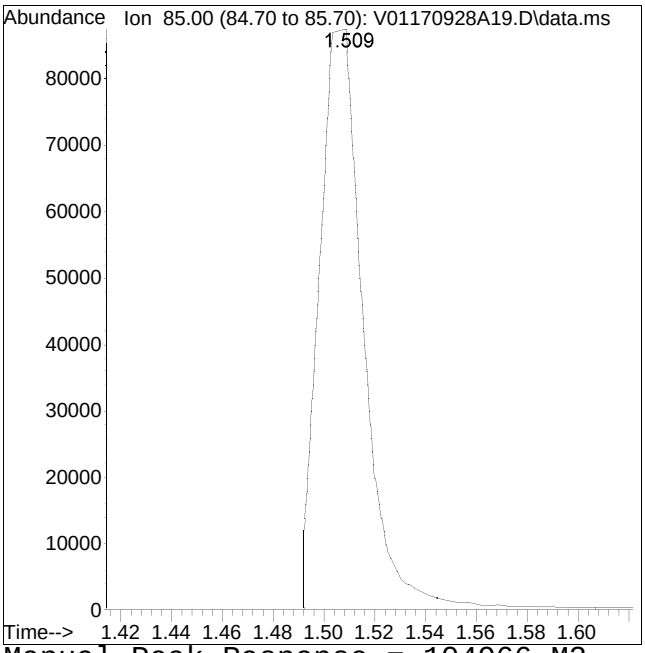
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A19.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 5:07 am Instrument : VOA 101
Sample : C8260 L3 Quant Date : 9/30/2017 2:27 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 0



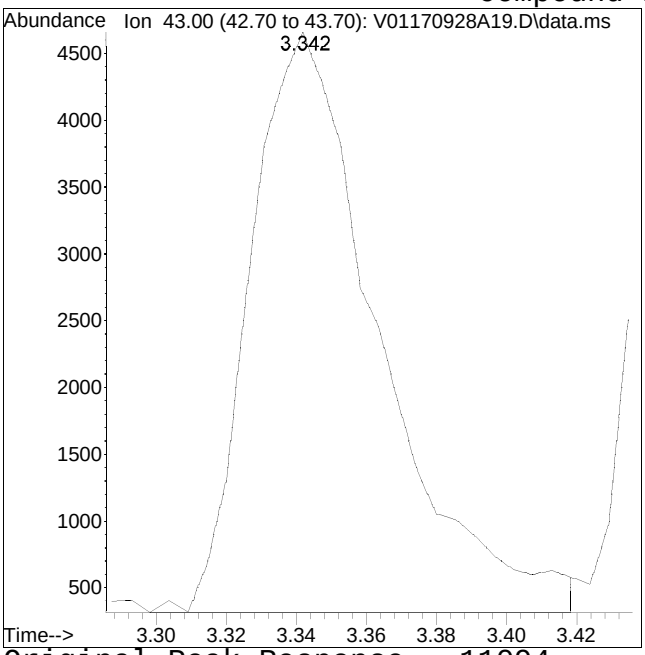
Manual Peak Response = 104966 M2

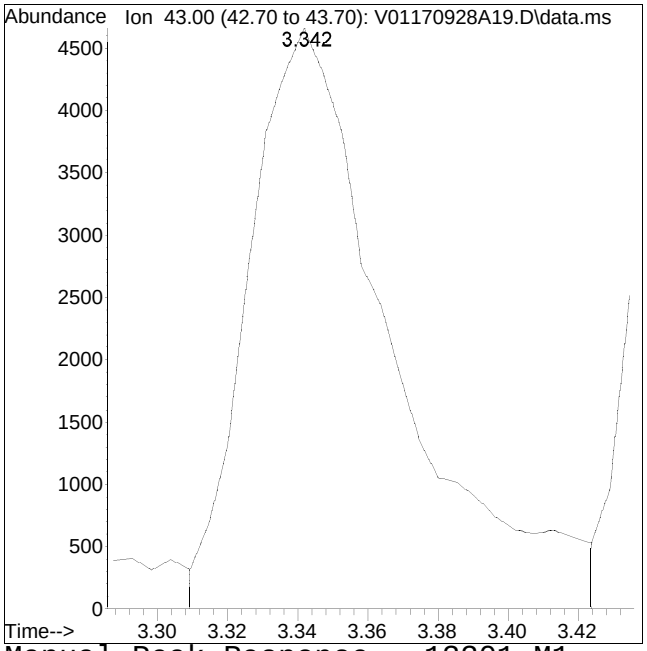
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A19.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 5:07 am Instrument : VOA 101
Sample : C8260 L3 Quant Date : 9/30/2017 2:27 pm

Compound #17: Acetone





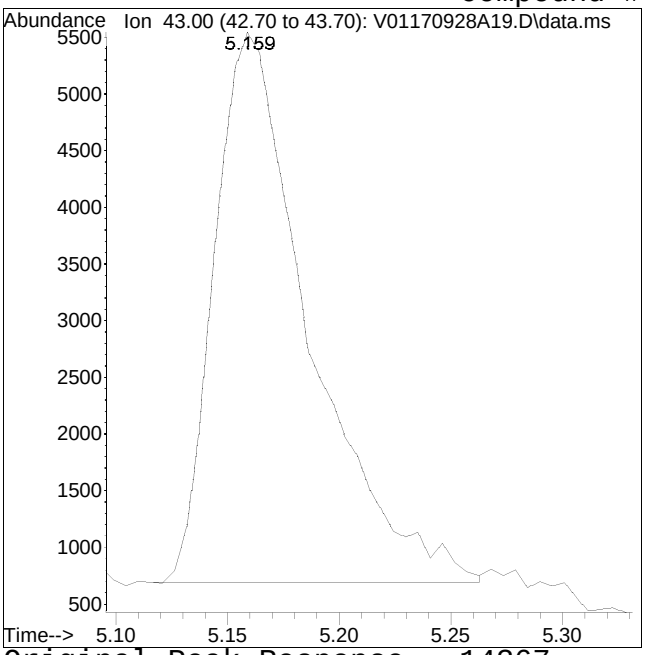
Original Peak Response = 11094 Manual Peak Response = 13301 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

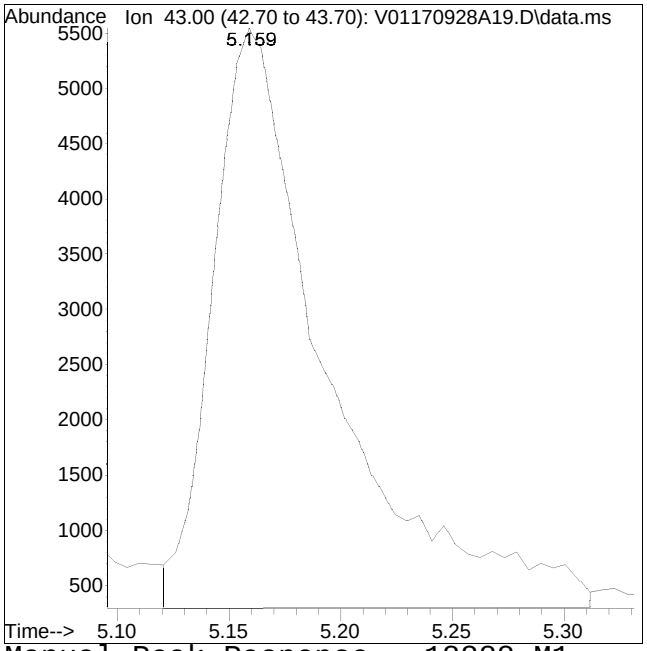
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01170928A19.D
Date Inj'd : 9/29/2017 5:07 am
Sample : C8260 L3

Method : V101_170928_8260.m
Operator : VOA101:MAB
Instrument : VOA 101
Quant Date : 9/30/2017 2:27 pm

Compound #39: 2-Butanone





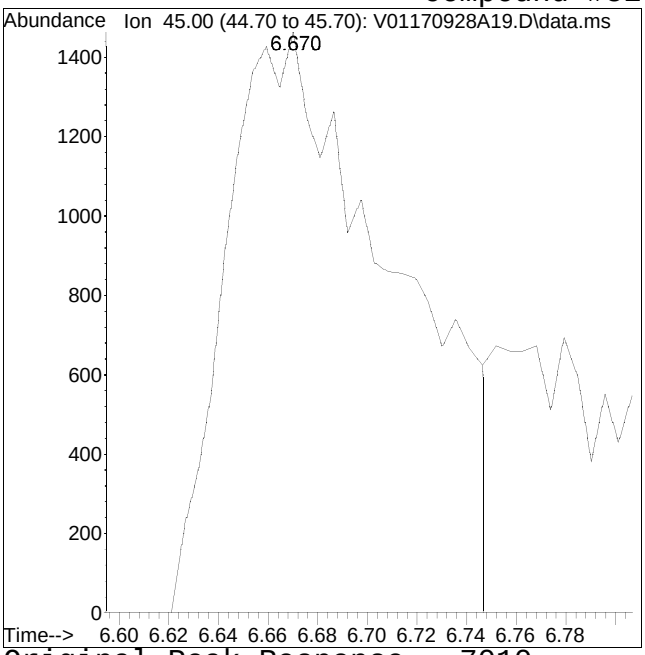
Original Peak Response = 14367 Manual Peak Response = 18888 M1

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

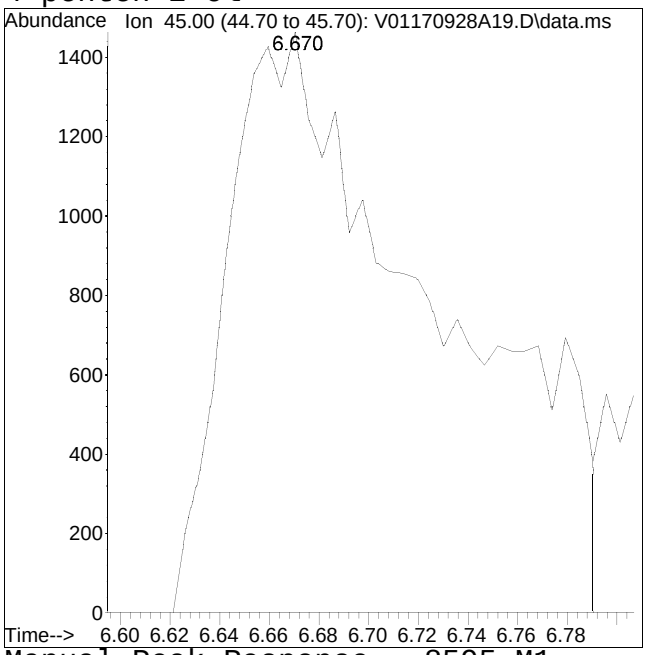
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01170928A19.D Operator : VOA101:MAB
Date Inj'd : 9/29/2017 5:07 am Instrument : VOA 101
Sample : C8260 L3 Quant Date : 9/30/2017 2:27 pm

Compound #52: 4-penten-2-ol



Original Peak Response = 7010



Manual Peak Response = 8595 M1

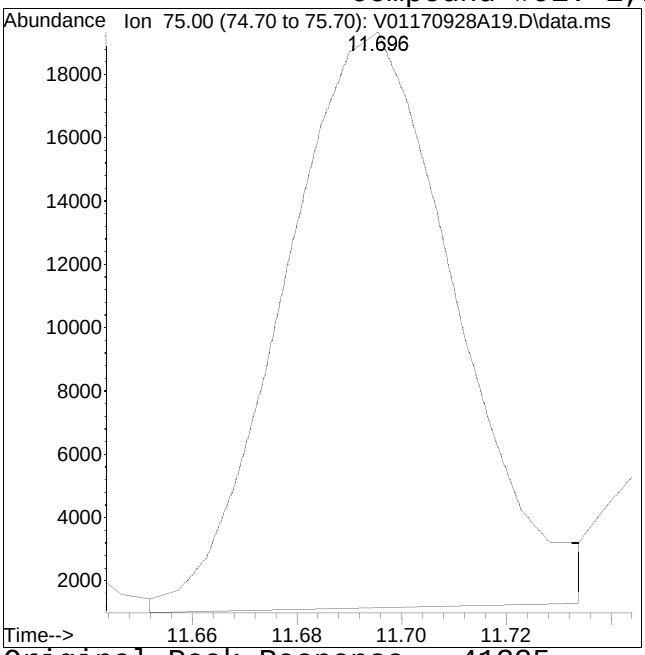
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

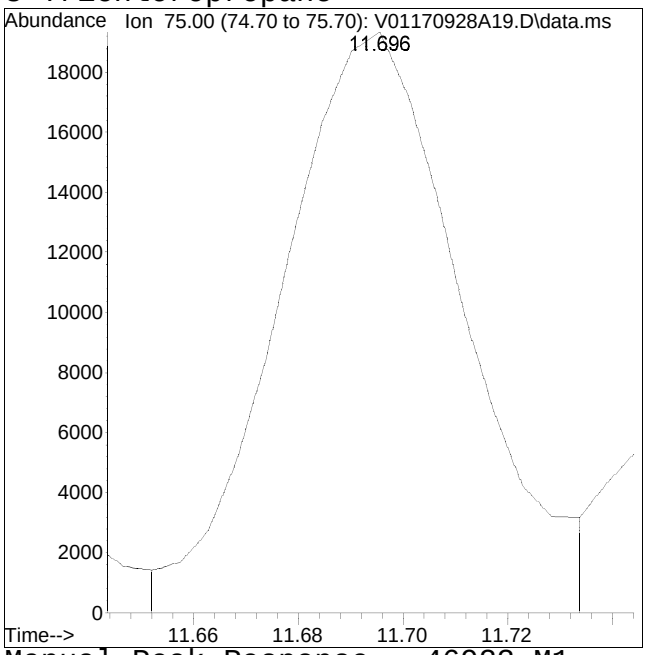
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01170928A19.D
Date Inj'd : 9/29/2017 5:07 am
Sample : C8260 L3

Method : V101_170928_8260.m
Operator : VOA101:MAB
Instrument : VOA 101
Quant Date : 9/30/2017 2:27 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 41335



Manual Peak Response = 46923 M1

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

Continuing Calibration

Continuing Calibration
Form 7

Client	: P. W. Grosser	**Lab Number**	: L1739725		
Project Name	: PEN1101	**Project Number**	: PEN1101		
Instrument ID	: VOA122	**Calibration Date**	: 11/08/17 08:07		
Lab File ID	: V22171108A02	**Init. Calib. Date(s)**	: 08/04/17	08/05/17	
Sample No	: WG1060967-2	**Init. Calib. Times**	: 20:41	00:48	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	160	0
Dichlorodifluoromethane	0.2	0.229	-	-14.5	20	169	.01
Chloromethane	0.228	0.195	-	14.5	20	136	0
Vinyl chloride	0.286	0.292	-	-2.1	20	155	0
Bromomethane	0.187	0.066*	-	64.7*	20	66	-.01
Chloroethane	0.172	0.195	-	-13.4	20	180	0
Trichlorofluoromethane	0.393	0.383	-	2.5	20	149	0
Ethyl ether	0.122	0.099	-	18.9	20	130	-.01
1,1-Dichloroethene	0.243	0.207	-	14.8	20	137	0
Carbon disulfide	0.624	0.548	-	12.2	20	146	0
Freon-113	0.212	0.212	-	0	20	153	-.01
Iodomethane	0.32	0.031*	-	90.3*	20	17	0
Acrolein	0.035	0.018*	-	48.6*	20	84	-.02
Methylene chloride	0.259	0.225	-	13.1	20	141	0
Acetone	0.031	0.028*	-	9.7	20	147	-.01
trans-1,2-Dichloroethene	0.28	0.239	-	14.6	20	139	0
Methyl acetate	0.081	0.082*	-	-1.2	20	155	-.01
Methyl tert-butyl ether	0.6	0.485	-	19.2	20	128	0
tert-Butyl alcohol	0.00775	0.00649*	-	16.3	20	123	0
Diisopropyl ether	0.652	0.635	-	2.6	20	156	-.01
1,1-Dichloroethane	0.444	0.426	-	4.1	20	153	-.01
Halothane	0.214	0.178	-	16.8	20	132	-.02
Acrylonitrile	0.044	0.042*	-	4.5	20	140	-.02
Ethyl tert-butyl ether	0.658	0.576	-	12.5	20	139	-.01
Vinyl acetate	0.408	0.399	-	2.2	20	155	0
cis-1,2-Dichloroethene	0.301	0.258	-	14.3	20	137	0
2,2-Dichloropropane	0.384	0.358	-	6.8	20	147	0
Bromochloromethane	0.127	0.112	-	11.8	20	137	-.01
Cyclohexane	0.372	0.39	-	-4.8	20	159	-.01
Chloroform	0.461	0.412	-	10.6	20	142	0
Ethyl acetate	0.124	0.117	-	5.6	20	149	-.01
Carbon tetrachloride	0.364	0.34	-	6.6	20	139	-.01
Tetrahydrofuran	0.046	0.04*	-	13	20	139	-.01
Dibromofluoromethane	0.258	0.25	-	3.1	20	153	0
1,1,1-Trichloroethane	0.438	0.392	-	10.5	20	142	0
2-Butanone	0.046	0.045*	-	2.2	20	149	0
1,1-Dichloropropene	0.362	0.327	-	9.7	20	143	0
Benzene	1.082	1.024	-	5.4	20	156	-.01
tert-Amyl methyl ether	0.607	0.487	-	19.8	20	127	0
1,2-Dichloroethane-d4	0.239	0.261	-	-9.2	20	174	-.01
1,2-Dichloroethane	0.281	0.271	-	3.6	20	151	0
Methyl cyclohexane	0.423	0.413	-	2.4	20	152	0
Trichloroethene	0.279	0.251	-	10	20	141	-.02
Dibromomethane	0.104	0.117	-	-12.5	20	176	-.02
1,2-Dichloropropane	0.235	0.223	-	5.1	20	152	-.02

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: P. W. Grosser	**Lab Number**	: L1739725		
Project Name	: PEN1101	**Project Number**	: PEN1101		
Instrument ID	: VOA122	**Calibration Date**	: 11/08/17 08:07		
Lab File ID	: V22171108A02	**Init. Calib. Date(s)**	: 08/04/17	08/05/17	
Sample No	: WG1060967-2	**Init. Calib. Times**	: 20:41	00:48	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	0.119	0.091	-	23.5*	20	119	-.01
Bromodichloromethane	0.35	0.313	-	10.6	20	146	-.01
1,4-Dioxane	0.00042	0.00039*	-	7.1	20	147	-.01
cis-1,3-Dichloropropene	0.403	0.338	-	16.1	20	136	-.01
Chlorobenzene-d5	1	1	-	0	20	150	-.01
Toluene-d8	1.202	1.297	-	-7.9	20	159	-.02
Toluene	0.813	0.779	-	4.2	20	143	0
4-Methyl-2-pentanone	0.059	0.054*	-	8.5	20	134	-.01
Tetrachloroethene	0.42	0.347	-	17.4	20	122	-.01
trans-1,3-Dichloropropene	0.402	0.361	-	10.2	20	132	-.02
Ethyl methacrylate	0.286	0.231	-	19.2	20	119	-.02
1,1,2-Trichloroethane	0.192	0.178	-	7.3	20	136	-.02
Chlorodibromomethane	0.303	0.26	-	14.2	20	128	-.02
1,3-Dichloropropane	0.39	0.37	-	5.1	20	139	-.01
1,2-Dibromoethane	0.244	0.204	-	16.4	20	128	-.02
2-Hexanone	0.086	0.084*	-	2.3	20	139	-.01
Chlorobenzene	0.945	0.857	-	9.3	20	136	-.01
Ethylbenzene	1.597	1.495	-	6.4	20	138	-.01
1,1,1,2-Tetrachloroethane	0.33	0.289	-	12.4	20	129	-.02
p/m Xylene	0.64	0.599	-	6.4	20	139	-.01
o Xylene	0.587	0.627	-	-6.8	20	158	-.01
Styrene	0.947	0.415	-	56.2*	20	65	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	142	0
Bromoform	0.384	0.215	-	44*	20	81	-.01
Isopropylbenzene	3.124	3.23	-	-3.4	20	144	-.01
4-Bromofluorobenzene	0.864	0.942	-	-9	20	154	-.01
Bromobenzene	0.756	0.654	-	13.5	20	124	-.02
n-Propylbenzene	3.556	3.725	-	-4.8	20	145	-.01
1,4-Dichlorobutane	0.632	0.686	-	-8.5	20	149	-.01
1,1,2,2-Tetrachloroethane	0.464	0.448	-	3.4	20	133	-.01
4-Ethyltoluene	2.865	2.999	-	-4.7	20	143	0
2-Chlorotoluene	2.297	2.42	-	-5.4	20	146	-.01
1,3,5-Trimethylbenzene	2.447	2.555	-	-4.4	20	144	0
1,2,3-Trichloropropane	0.372	0.374	-	-0.5	20	139	0
trans-1,4-Dichloro-2-buten	0.117	0.092	-	21.4*	20	107	-.02
4-Chlorotoluene	2.093	2.184	-	-4.3	20	146	0
tert-Butylbenzene	2.243	2.814	-	-25.5*	20	176	0
1,2,4-Trimethylbenzene	2.45	3.172	-	-29.5*	20	182	-.02
sec-Butylbenzene	3.176	3.334	-	-5	20	144	-.01
p-Isopropyltoluene	2.756	2.879	-	-4.5	20	144	-.01
1,3-Dichlorobenzene	1.464	1.41	-	3.7	20	136	-.01
1,4-Dichlorobenzene	1.446	1.378	-	4.7	20	134	-.01
p-Diethylbenzene	1.599	1.625	-	-1.6	20	142	-.01
n-Butylbenzene	2.408	2.597	-	-7.8	20	148	-.01
1,2-Dichlorobenzene	1.315	1.217	-	7.5	20	132	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	**: P. W. Grosser**	**Lab Number**	**: L1739725**		
Project Name	**: PEN1101**	**Project Number**	**: PEN1101**		
Instrument ID	**: VOA122**	**Calibration Date**	**: 11/08/17 08:07**		
Lab File ID	**: V22171108A02**	**Init. Calib. Date(s)**	**: 08/04/17**	**08/05/17**	
Sample No	**: WG1060967-2**	**Init. Calib. Times**	**: 20:41**	**00:48**	
Channel	**:**				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4,5-Tetramethylbenzene	2.362	2.248	-	4.8	20	135	-.01
1,2-Dibromo-3-chloropropan	0.077	0.057	-	26*	20	103	0
1,3,5-Trichlorobenzene	1.101	0.867	-	21.3*	20	113	0
Hexachlorobutadiene	0.493	0.32	-	35.1*	20	91	-.01
1,2,4-Trichlorobenzene	0.968	0.72	-	25.6*	20	105	-.01
Naphthalene	1.71	1.383	-	19.1	20	113	0
1,2,3-Trichlorobenzene	0.872	0.607	-	30.4*	20	99	0

*** Value outside of QC limits.**

Continuing Calibration
Form 7

Client	: P. W. Grosser	**Lab Number**	: L1739725		
Project Name	: PEN1101	**Project Number**	: PEN1101		
Instrument ID	: VOA101	**Calibration Date**	: 11/08/17 08:10		
Lab File ID	: V01171108A01	**Init. Calib. Date(s)**	: 09/28/17	09/29/17	
Sample No	: WG1060957-2	**Init. Calib. Times**	: 21:33	01:48	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	66	0
Dichlorodifluoromethane	0.207	0.178	-	14	20	56	0
Chloromethane	0.362	0.293	-	19.1	20	54	0
Vinyl chloride	0.296	0.24	-	18.9	20	53	0
Bromomethane	0.096	0.044	-	54.2*	20	34	0
Chloroethane	0.115	0.109	-	5.2	20	59	0
Trichlorofluoromethane	0.308	0.283	-	8.1	20	61	0
Ethyl ether	0.069	0.057	-	17.4	20	53	0
1,1-Dichloroethene	0.175	0.15	-	14.3	20	56	0
Carbon disulfide	0.546	0.432	-	20.9*	20	52	0
Freon-113	0.178	0.159	-	10.7	20	57	0
Iodomethane	0.235	0.074	-	68.5*	20	21	0
Acrolein	0.019	0.013	-	31.6*	20	48	0
Methylene chloride	0.188	0.165	-	12.2	20	59	0
Acetone	10	9.092	-	9.1	20	71	0
trans-1,2-Dichloroethene	0.203	0.179	-	11.8	20	59	0
Methyl acetate	10	9.149	-	8.5	20	66	0
Methyl tert-butyl ether	0.327	0.285	-	12.8	20	57	0
tert-Butyl alcohol	0.00677	0.00497	-	26.6*	20	51	0
Diisopropyl ether	0.729	0.725	-	0.5	20	65	0
1,1-Dichloroethane	0.442	0.413	-	6.6	20	63	0
Halothane	0.147	0.131	-	10.9	20	60	0
Acrylonitrile	0.035	0.033	-	5.7	20	67	0
Ethyl tert-butyl ether	0.526	0.483	-	8.2	20	60	0
Vinyl acetate	0.342	0.272	-	20.5*	20	53	0
cis-1,2-Dichloroethene	0.214	0.193	-	9.8	20	59	0
2,2-Dichloropropane	0.311	0.283	-	9	20	61	0
Bromochloromethane	0.072	0.068	-	5.6	20	60	0
Cyclohexane	0.48	0.464	-	3.3	20	63	0
Chloroform	0.339	0.327	-	3.5	20	64	0
Ethyl acetate	0.095	0.089	-	6.3	20	64	0
Carbon tetrachloride	0.281	0.263	-	6.4	20	63	0
Tetrahydrofuran	0.037	0.035	-	5.4	20	72	0
Dibromofluoromethane	0.234	0.236	-	-0.9	20	66	0
1,1,1-Trichloroethane	0.321	0.308	-	4	20	64	0
2-Butanone	0.038	0.032	-	15.8	20	64	0
1,1-Dichloropropene	0.304	0.285	-	6.3	20	62	0
Benzene	0.851	0.777	-	8.7	20	61	0
tert-Amyl methyl ether	0.353	0.311	-	11.9	20	59	0
1,2-Dichloroethane-d4	0.23	0.253	-	-10	20	72	0
1,2-Dichloroethane	0.213	0.219	-	-2.8	20	68	0
Methyl cyclohexane	0.354	0.342	-	3.4	20	62	0
Trichloroethene	0.214	0.204	-	4.7	20	65	0
Dibromomethane	0.077	0.075	-	2.6	20	64	0
1,2-Dichloropropane	0.234	0.228	-	2.6	20	64	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: P. W. Grosser	**Lab Number**	: L1739725		
Project Name	: PEN1101	**Project Number**	: PEN1101		
Instrument ID	: VOA101	**Calibration Date**	: 11/08/17 08:10		
Lab File ID	: V01171108A01	**Init. Calib. Date(s)**	: 09/28/17	09/29/17	
Sample No	: WG1060957-2	**Init. Calib. Times**	: 21:33	01:48	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	0.059	0.038	-	35.6*	20	43	0
Bromodichloromethane	0.238	0.235	-	1.3	20	67	0
1,4-Dioxane	0.00077	0.00043	-	44.2*	20	34	0
cis-1,3-Dichloropropene	0.29	0.268	-	7.6	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	0
Toluene-d8	1.391	1.324	-	4.8	20	68	0
Toluene	0.749	0.666	-	11.1	20	65	0
4-Methyl-2-pentanone	0.048	0.043	-	10.4	20	64	0
Tetrachloroethene	0.288	0.261	-	9.4	20	65	0
trans-1,3-Dichloropropene	0.308	0.26	-	15.6	20	60	0
Ethyl methacrylate	0.186	0.162	-	12.9	20	64	0
1,1,2-Trichloroethane	0.133	0.121	-	9	20	63	0
Chlorodibromomethane	0.186	0.163	-	12.4	20	64	0
1,3-Dichloropropane	0.292	0.267	-	8.6	20	65	0
1,2-Dibromoethane	0.144	0.129	-	10.4	20	63	0
2-Hexanone	0.079	0.073	-	7.6	20	73	0
Chlorobenzene	0.783	0.726	-	7.3	20	67	0
Ethylbenzene	1.419	1.338	-	5.7	20	68	0
1,1,1,2-Tetrachloroethane	0.248	0.224	-	9.7	20	66	0
p/m Xylene	0.544	0.523	-	3.9	20	68	0
o Xylene	0.492	0.488	-	0.8	20	70	0
Styrene	0.764	0.741	-	3	20	68	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	73	0
Bromoform	0.179	0.152	-	15.1	20	63	0
Isopropylbenzene	3.191	2.946	-	7.7	20	68	0
4-Bromofluorobenzene	1.121	1.055	-	5.9	20	69	0
Bromobenzene	0.567	0.509	-	10.2	20	67	0
n-Propylbenzene	3.679	3.478	-	5.5	20	70	0
1,4-Dichlorobutane	0.716	0.691	-	3.5	20	72	0
1,1,2,2-Tetrachloroethane	0.33	0.287	-	13	20	65	0
4-Ethyltoluene	2.949	2.806	-	4.8	20	71	0
2-Chlorotoluene	2.117	1.982	-	6.4	20	72	0
1,3,5-Trimethylbenzene	2.509	2.312	-	7.9	20	68	0
1,2,3-Trichloropropane	0.277	0.247	-	10.8	20	66	0
trans-1,4-Dichloro-2-buten	0.101	0.074	-	26.7*	20	58	0
4-Chlorotoluene	2.141	1.968	-	8.1	20	69	0
tert-Butylbenzene	2.102	1.944	-	7.5	20	68	0
1,2,4-Trimethylbenzene	2.46	2.263	-	8	20	68	0
sec-Butylbenzene	2.966	2.799	-	5.6	20	69	0
p-Isopropyltoluene	2.45	2.312	-	5.6	20	70	0
1,3-Dichlorobenzene	1.154	1.071	-	7.2	20	69	0
1,4-Dichlorobenzene	1.147	1.053	-	8.2	20	70	0
p-Diethylbenzene	1.349	1.261	-	6.5	20	69	0
n-Butylbenzene	2.087	2.002	-	4.1	20	71	0
1,2-Dichlorobenzene	0.961	0.872	-	9.3	20	69	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: P. W. Grosser		**Lab Number**	: L1739725	
Project Name	: PEN1101		**Project Number**	: PEN1101	
Instrument ID	: VOA101		**Calibration Date**	: 11/08/17 08:10	
Lab File ID	: V01171108A01		**Init. Calib. Date(s)**	: 09/28/17	09/29/17
Sample No	: WG1060957-2		**Init. Calib. Times**	: 21:33	01:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4,5-Tetramethylbenzene	1.879	1.726	-	8.1	20	69	0
1,2-Dibromo-3-chloropropan	0.036	0.029	-	19.4	20	62	0
1,3,5-Trichlorobenzene	0.595	0.55	-	7.6	20	69	0
Hexachlorobutadiene	0.2	0.173	-	13.5	20	69	0
1,2,4-Trichlorobenzene	0.449	0.391	-	12.9	20	65	0
Naphthalene	0.764	0.652	-	14.7	20	66	0
1,2,3-Trichlorobenzene	0.305	0.263	-	13.8	20	66	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
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	160	0.00
2	TP	Dichlorodifluoromethane	0.200	0.229	-14.5	169	0.01
3	TP	Chloromethane	0.228	0.195	14.5	136	0.00
4	TC	Vinyl chloride	0.286	0.292	-2.1	155	0.00
5	TP	Bromomethane	0.187	0.066#	64.7#	66	-0.01
6	TP	Chloroethane	0.172	0.195	-13.4	180	0.00
7	TP	Trichlorofluoromethane	0.393	0.383	2.5	149	0.00
8	TP	Ethyl ether	0.122	0.099	18.9	130	-0.01
10	TC	1,1-Dichloroethene	0.243	0.207	14.8	137	0.00
11	TP	Carbon disulfide	0.624	0.548	12.2	146	0.00
12	TP	Freon-113	0.212	0.212	0.0	153	-0.01
13	TP	Iodomethane	0.320	0.031#	90.3#	17#	0.00
14	TP	Acrolein	0.035	0.018#	48.6#	84	-0.02
15	TP	Methylene chloride	0.259	0.225	13.1	141	0.00
17	TP	Acetone	0.031	0.028#	9.7	147	-0.01
18	TP	trans-1,2-Dichloroethene	0.280	0.239	14.6	139	0.00
19	TP	Methyl acetate	0.081	0.082#	-1.2	155	-0.01
21	TP	Methyl tert-butyl ether	0.600	0.485	19.2	128	0.00
22	TP	tert-Butyl alcohol	0.00775	0.00649#	16.3	123	0.00
24	TP	Diisopropyl ether	0.652	0.635	2.6	156	-0.01
25	TP	1,1-Dichloroethane	0.444	0.426	4.1	153	-0.01
26	TP	Halothane	0.214	0.178	16.8	132	-0.02
27	TP	Acrylonitrile	0.044	0.042#	4.5	140	-0.02
28	TP	Ethyl tert-butyl ether	0.658	0.576	12.5	139	-0.01
29	TP	Vinyl acetate	0.408	0.399	2.2	155	0.00
30	TP	cis-1,2-Dichloroethene	0.301	0.258	14.3	137	0.00
31	TP	2,2-Dichloropropane	0.384	0.358	6.8	147	0.00
32	TP	Bromochloromethane	0.127	0.112	11.8	137	-0.01
33	TP	Cyclohexane	0.372	0.390	-4.8	159	-0.01
34	TC	Chloroform	0.461	0.412	10.6	142	0.00
35	TP	Ethyl acetate	0.124	0.117	5.6	149	-0.01
36	TP	Carbon tetrachloride	0.364	0.340	6.6	139	-0.01
37	TP	Tetrahydrofuran	0.046	0.040#	13.0	139	-0.01
38	S	Dibromofluoromethane	0.258	0.250	3.1	153	0.00
39	TP	1,1,1-Trichloroethane	0.438	0.392	10.5	142	0.00
41	TP	2-Butanone	0.046	0.045#	2.2	149	0.00
42	TP	1,1-Dichloropropene	0.362	0.327	9.7	143	0.00
44	TP	Benzene	1.082	1.024	5.4	156	-0.01
45	TP	tert-Amyl methyl ether	0.607	0.487	19.8	127	0.00

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
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)
46	S	1,2-Dichloroethane-d4	0.239	0.261	-9.2	174	-0.01
47	T	1,2-Dichloroethane	0.281	0.271	3.6	151	0.00
50	TP	Methyl cyclohexane	0.423	0.413	2.4	152	0.00
51	TP	Trichloroethene	0.279	0.251	10.0	141	-0.02
53	TP	Dibromomethane	0.104	0.117	-12.5	176	-0.02
54	TC	1,2-Dichloropropane	0.235	0.223	5.1	152	-0.02
56	TP	2-Chloroethyl vinyl ether	0.119	0.091	23.5#	119	-0.01
57	TP	Bromodichloromethane	0.350	0.313	10.6	146	-0.01
60	TP	1,4-Dioxane	0.00042	0.00039#	7.1	147	-0.01
61	TP	cis-1,3-Dichloropropene	0.403	0.338	16.1	136	-0.01
62	I	Chlorobenzene-d5	1.000	1.000	0.0	150	-0.01
63	S	Toluene-d8	1.202	1.297	-7.9	159	-0.02
64	TC	Toluene	0.813	0.779	4.2	143	0.00
65	TP	4-Methyl-2-pentanone	0.059	0.054#	8.5	134	-0.01
66	TP	Tetrachloroethene	0.420	0.347	17.4	122	-0.01
68	TP	trans-1,3-Dichloropropene	0.402	0.361	10.2	132	-0.02
70	TP	Ethyl methacrylate	0.286	0.231	19.2	119	-0.02
71	TP	1,1,2-Trichloroethane	0.192	0.178	7.3	136	-0.02
72	TP	Chlorodibromomethane	0.303	0.260	14.2	128	-0.02
73	TP	1,3-Dichloropropane	0.390	0.370	5.1	139	-0.01
74	TP	1,2-Dibromoethane	0.244	0.204	16.4	128	-0.02
76	TP	2-Hexanone	0.086	0.084#	2.3	139	-0.01
77	TP	Chlorobenzene	0.945	0.857	9.3	136	-0.01
78	TC	Ethylbenzene	1.597	1.495	6.4	138	-0.01
79	TP	1,1,1,2-Tetrachloroethane	0.330	0.289	12.4	129	-0.02
80	TP	p/m Xylene	0.640	0.599	6.4	139	-0.01
81	TP	o Xylene	0.587	0.627	-6.8	158	-0.01
82	TP	Styrene	0.947	0.415	56.2#	65	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	142	0.00
84	TP	Bromoform	0.384	0.215	44.0#	81	-0.01
86	TP	Isopropylbenzene	3.124	3.230	-3.4	144	-0.01
87	S	4-Bromofluorobenzene	0.864	0.942	-9.0	154	-0.01
88	TP	Bromobenzene	0.756	0.654	13.5	124	-0.02
89	TP	n-Propylbenzene	3.556	3.725	-4.8	145	-0.01
90	TP	1,4-Dichlorobutane	0.632	0.686	-8.5	149	-0.01
91	TP	1,1,2,2-Tetrachloroethane	0.464	0.448	3.4	133	-0.01
92	TP	4-Ethyltoluene	2.865	2.999	-4.7	143	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
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)
93 TP	2-Chlorotoluene	2.297	2.420	-5.4	146	-0.01
94 TP	1,3,5-Trimethylbenzene	2.447	2.555	-4.4	144	0.00
95 TP	1,2,3-Trichloropropane	0.372	0.374	-0.5	139	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.117	0.092	21.4#	107	-0.02
97 TP	4-Chlorotoluene	2.093	2.184	-4.3	146	0.00
98 TP	tert-Butylbenzene	2.243	2.814	-25.5#	176	0.00
101 TP	1,2,4-Trimethylbenzene	2.450	3.172	-29.5#	182	-0.02
102 TP	sec-Butylbenzene	3.176	3.334	-5.0	144	-0.01
103 TP	p-Isopropyltoluene	2.756	2.879	-4.5	144	-0.01
104 TP	1,3-Dichlorobenzene	1.464	1.410	3.7	136	-0.01
105 TP	1,4-Dichlorobenzene	1.446	1.378	4.7	134	-0.01
106 TP	p-Diethylbenzene	1.599	1.625	-1.6	142	-0.01
107 TP	n-Butylbenzene	2.408	2.597	-7.8	148	-0.01
108 TP	1,2-Dichlorobenzene	1.315	1.217	7.5	132	-0.01
109 TP	1,2,4,5-Tetramethylbenzene	2.362	2.248	4.8	135	-0.01
110 TP	1,2-Dibromo-3-chloropropane	0.077	0.057	26.0#	103	0.00
111 TP	1,3,5-Trichlorobenzene	1.101	0.867	21.3#	113	0.00
112 TP	Hexachlorobutadiene	0.493	0.320	35.1#	91	-0.01
113 TP	1,2,4-Trichlorobenzene	0.968	0.720	25.6#	105	-0.01
114 TP	Naphthalene	1.710	1.383	19.1	113	0.00
115 TP	1,2,3-Trichlorobenzene	0.872	0.607	30.4#	99	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 12 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	269066	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery = 100.00%			
62) Chlorobenzene-d5	9.646	117	210100	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.341	152	107092	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.266	113	67254	9.672	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.72%			
46) 1,2-Dichloroethane-d4	5.802	65	70121	10.894	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.94%			
63) Toluene-d8	7.790	98	272413	10.786	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.86%			
87) 4-Bromofluorobenzene	11.133	95	100840	10.900	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	61547	11.420	ug/L	99
3) Chloromethane	1.827	50	52348	8.526	ug/L	99
4) Vinyl chloride	1.903	62	78589	10.228	ug/L	100
5) Bromomethane	2.216	94	17827M1	3.544	ug/L	
6) Chloroethane	2.348	64	52532	11.366	ug/L	97
7) Trichlorofluoromethane	2.490	101	103001	9.732	ug/L	100
8) Ethyl ether	2.794	74	26572	8.088	ug/L #	1
10) 1,1-Dichloroethene	2.992	96	55675	8.522	ug/L	88
11) Carbon disulfide	3.011	76	147582	8.794	ug/L	99
12) Freon-113	3.030	101	57019	9.981	ug/L	93
13) Iodomethane	3.125	142	8325	0.966	ug/L	95
14) Acrolein	3.314	56	4963	5.214	ug/L	95
15) Methylene chloride	3.551	84	60431	8.680	ug/L	88
17) Acetone	3.599	43	7596	9.033	ug/L	99
18) trans-1,2-Dichloroethene	3.703	96	64381	8.531	ug/L	92
19) Methyl acetate	3.722	43	22023	10.064	ug/L	94
21) Methyl tert-butyl ether	3.807	73	130559	8.089	ug/L	95
22) tert-Butyl alcohol	3.892	59	8733	41.859	ug/L	94
24) Diisopropyl ether	4.176	45	170983	9.742	ug/L	96
25) 1,1-Dichloroethane	4.299	63	114501	9.594	ug/L	98
26) Halothane	4.347	117	47880	8.334	ug/L	99

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.347	53	11407	9.556	ug/L		93
28) Ethyl tert-butyl ether	4.527	59	155068	8.758	ug/L		93
29) Vinyl acetate	4.546	43	107422	9.776	ug/L		95
30) cis-1,2-Dichloroethene	4.820	96	69416	8.573	ug/L		91
31) 2,2-Dichloropropane	4.934	77	96452	9.342	ug/L		92
32) Bromochloromethane	5.010	128	30168	8.851	ug/L	#	87
33) Cyclohexane	5.019	56	104979	10.485	ug/L		85
34) Chloroform	5.086	83	110849	8.937	ug/L		97
35) Ethyl acetate	5.209	43	31563	9.426	ug/L		97
36) Carbon tetrachloride	5.228	117	91614	9.358	ug/L		98
37) Tetrahydrofuran	5.247	42	10677	8.593	ug/L		93
39) 1,1,1-Trichloroethane	5.294	97	105411	8.941	ug/L		97
41) 2-Butanone	5.398	43	12234	9.954	ug/L		98
42) 1,1-Dichloropropene	5.417	75	87874	9.025	ug/L		98
44) Benzene	5.668	78	275443	9.465	ug/L		95
45) tert-Amyl methyl ether	5.782	73	131155	8.029	ug/L		95
47) 1,2-Dichloroethane	5.875	62	72914	9.653	ug/L		99
50) Methyl cyclohexane	6.256	83	111074	9.760	ug/L		90
51) Trichloroethene	6.256	95	67501	8.977	ug/L		97
53) Dibromomethane	6.700	93	31352	11.193	ug/L	#	83
54) 1,2-Dichloropropane	6.813	63	60006	9.501	ug/L		98
56) 2-Chloroethyl vinyl ether	7.516	63	24482	7.646	ug/L		94
57) Bromodichloromethane	6.875	83	84182	8.927	ug/L		90
60) 1,4-Dioxane	7.102	88	5264	463.832	ug/L	#	27
61) cis-1,3-Dichloropropene	7.582	75	90864	8.374	ug/L	#	92
64) Toluene	7.856	92	163596	9.583	ug/L		100
65) 4-Methyl-2-pentanone	8.301	58	11278	9.035	ug/L		91
66) Tetrachloroethene	8.292	166	72862	8.250	ug/L		94
68) trans-1,3-Dichloropropene	8.330	75	75950	8.999	ug/L		94
70) Ethyl methacrylate	8.529	69	48599	8.084	ug/L		94
71) 1,1,2-Trichloroethane	8.519	83	37382	9.258	ug/L		98
72) Chlorodibromomethane	8.728	129	54669	8.583	ug/L		98
73) 1,3-Dichloropropane	8.851	76	77642	9.478	ug/L		99
74) 1,2-Dibromoethane	9.012	107	42837	8.369	ug/L		99
76) 2-Hexanone	9.315	43	17691	9.752	ug/L		97
77) Chlorobenzene	9.665	112	180150	9.073	ug/L		97
78) Ethylbenzene	9.712	91	314123	9.362	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.750	131	60632	8.757	ug/L		97
80) p/m Xylene	9.902	106	251586	18.720	ug/L		98
81) o Xylene	10.442	106	263510	21.369	ug/L		89

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.517	104	174376	8.764	ug/L		95
84) Bromoform	10.517	173	23024	5.605	ug/L		99
86) Isopropylbenzene	10.820	105	345858	10.338	ug/L		98
88) Bromobenzene	11.247	156	69995	8.646	ug/L		99
89) n-Propylbenzene	11.294	91	398908	10.474	ug/L		98
90) 1,4-Dichlorobutane	11.313	55	73505	10.866	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.370	83	48006	9.666	ug/L		99
92) 4-Ethyltoluene	11.427	105	321150	10.466	ug/L		100
93) 2-Chlorotoluene	11.455	91	259214	10.537	ug/L		98
94) 1,3,5-Trimethylbenzene	11.521	105	273599	10.439	ug/L		98
95) 1,2,3-Trichloropropane	11.521	75	40001	10.034	ug/L		98
96) trans-1,4-Dichloro-2-b...	11.569	53	9823	7.847	ug/L	#	81
97) 4-Chlorotoluene	11.645	91	233937	10.439	ug/L		97
98) tert-Butylbenzene	11.863	119	301367	12.545	ug/L		91
101) 1,2,4-Trimethylbenzene	11.936	105	339686	12.946	ug/L		97
102) sec-Butylbenzene	12.048	105	357007	10.497	ug/L		98
103) p-Isopropyltoluene	12.203	119	308274	10.444	ug/L		98
104) 1,3-Dichlorobenzene	12.264	146	151040	9.634	ug/L		98
105) 1,4-Dichlorobenzene	12.359	146	147611	9.531	ug/L		97
106) p-Diethylbenzene	12.574	119	174038	10.165	ug/L		98
107) n-Butylbenzene	12.635	91	278146	10.784	ug/L		98
108) 1,2-Dichlorobenzene	12.781	146	130334	9.254	ug/L		98
109) 1,2,4,5-Tetramethylben...	13.368	119	240793	9.519	ug/L		99
110) 1,2-Dibromo-3-chloropr...	13.558	155	6135	7.478	ug/L		99
111) 1,3,5-Trichlorobenzene	13.592	180	92887	7.876	ug/L		96
112) Hexachlorobutadiene	14.162	225	34306	6.499	ug/L		97
113) 1,2,4-Trichlorobenzene	14.188	180	77148	7.440	ug/L		98
114) Naphthalene	14.490	128	148100	8.085	ug/L		100
115) 1,2,3-Trichlorobenzene	14.653	180	65031	6.966	ug/L		97

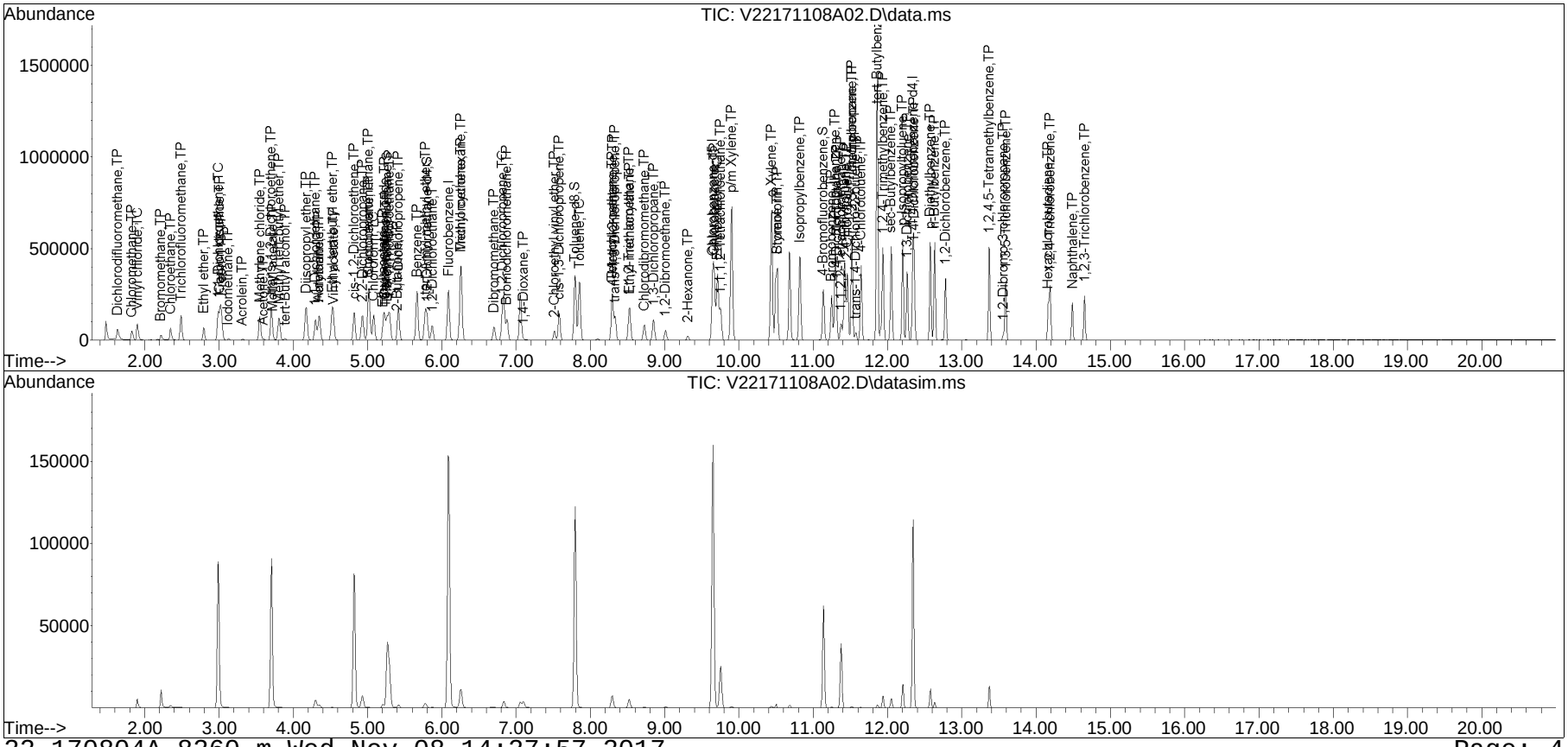
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

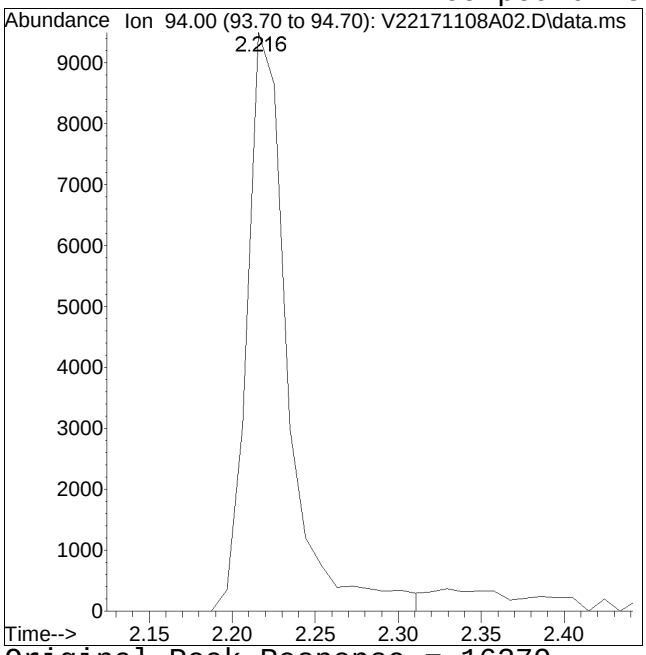
Sub List : 8260-Curve - Megamix plus Diox71108A\V22171108A02.D•

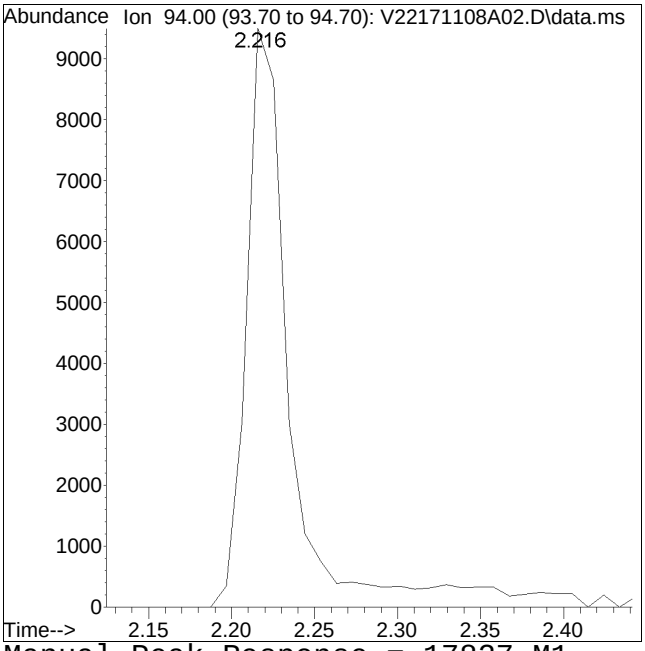


Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171108A02.D Operator : VOA122:PD
Date Inj'd : 11/8/2017 8:07 am Instrument : VOA122
Sample : WG1060967-2 Quant Date : 11/8/2017 8:46 am

Compound #5: Bromomethane





Original Peak Response = 16279 Manual Peak Response = 17827 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-2
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
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	66	0.00
2	T	Dichlorodifluoromethane	0.207	0.178	14.0	56	0.00
3	T	Chloromethane	0.362	0.293	19.1	54	0.00
4	C	Vinyl chloride	0.296	0.240	18.9	53	0.00
5	T	Bromomethane	0.096	0.044	54.2#	34#	0.00
6	T	Chloroethane	0.115	0.109	5.2	59	0.00
7	T	Trichlorofluoromethane	0.308	0.283	8.1	61	0.00
8	T	Ethyl ether	0.069	0.057	17.4	53	0.00
10	C	1,1-Dichloroethene	0.175	0.150	14.3	56	0.00
11	T	Carbon disulfide	0.546	0.432	20.9#	52	0.00
12	T	Freon-113	0.178	0.159	10.7	57	0.00
13	T	Iodomethane	0.235	0.074	68.5#	21#	0.00
14	T	Acrolein	0.019	0.013	31.6#	48#	0.00
15	T	Methylene chloride	0.188	0.165	12.2	59	0.00
17	T	Acetone	* 10.000	9.092	9.1	71	0.00
18	T	trans-1,2-Dichloroethene	0.203	0.179	11.8	59	0.00
19	T	Methyl acetate	* 10.000	9.149	8.5	66	0.00
20	T	Methyl tert-butyl ether	0.327	0.285	12.8	57	0.00
21	T	tert-Butyl alcohol	0.00677	0.00497	26.6#	51	0.00
22	T	Diisopropyl ether	0.729	0.725	0.5	65	0.00
23	T	1,1-Dichloroethane	0.442	0.413	6.6	63	0.00
24	T	Halothane	0.147	0.131	10.9	60	0.00
25	T	Acrylonitrile	0.035	0.033	5.7	67	0.00
26	T	Ethyl tert-butyl ether	0.526	0.483	8.2	60	0.00
27	T	Vinyl acetate	0.342	0.272	20.5#	53	0.00
28	T	cis-1,2-Dichloroethene	0.214	0.193	9.8	59	0.00
29	T	2,2-Dichloropropane	0.311	0.283	9.0	61	0.00
30	T	Bromochloromethane	0.072	0.068	5.6	60	0.00
31	T	Cyclohexane	0.480	0.464	3.3	63	0.00
32	C	Chloroform	0.339	0.327	3.5	64	0.00
33	T	Ethyl acetate	0.095	0.089	6.3	64	0.00
34	T	Carbon tetrachloride	0.281	0.263	6.4	63	0.00
35	T	Tetrahydrofuran	0.037	0.035	5.4	72	0.00
36	S	Dibromofluoromethane	0.234	0.236	-0.9	66	0.00
37	T	1,1,1-Trichloroethane	0.321	0.308	4.0	64	0.00
39	T	2-Butanone	0.038	0.032	15.8	64	0.00
40	T	1,1-Dichloropropene	0.304	0.285	6.3	62	0.00
41	T	Benzene	0.851	0.777	8.7	61	0.00
42	T	tert-Amyl methyl ether	0.353	0.311	11.9	59	0.00

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-2
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
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	0.230	0.253	-10.0	72	0.00
44	T	1,2-Dichloroethane	0.213	0.219	-2.8	68	0.00
47	T	Methyl cyclohexane	0.354	0.342	3.4	62	0.00
48	T	Trichloroethene	0.214	0.204	4.7	65	0.00
50	T	Dibromomethane	0.077	0.075	2.6	64	0.00
51	C	1,2-Dichloropropane	0.234	0.228	2.6	64	0.00
53	T	2-Chloroethyl vinyl ether	0.059	0.038	35.6#	43#	0.00
54	T	Bromodichloromethane	0.238	0.235	1.3	67	0.00
57	T	1,4-Dioxane	0.00077	0.00043	44.2#	34#	0.00
58	T	cis-1,3-Dichloropropene	0.290	0.268	7.6	61	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00
60	S	Toluene-d8	1.391	1.324	4.8	68	0.00
61	C	Toluene	0.749	0.666	11.1	65	0.00
62	T	4-Methyl-2-pentanone	0.048	0.043	10.4	64	0.00
63	T	Tetrachloroethene	0.288	0.261	9.4	65	0.00
65	T	trans-1,3-Dichloropropene	0.308	0.260	15.6	60	0.00
67	T	Ethyl methacrylate	0.186	0.162	12.9	64	0.00
68	T	1,1,2-Trichloroethane	0.133	0.121	9.0	63	0.00
69	T	Chlorodibromomethane	0.186	0.163	12.4	64	0.00
70	T	1,3-Dichloropropane	0.292	0.267	8.6	65	0.00
71	T	1,2-Dibromoethane	0.144	0.129	10.4	63	0.00
72	T	2-Hexanone	0.079	0.073	7.6	73	0.00
73	T	Chlorobenzene	0.783	0.726	7.3	67	0.00
74	C	Ethylbenzene	1.419	1.338	5.7	68	0.00
75	T	1,1,1,2-Tetrachloroethane	0.248	0.224	9.7	66	0.00
76	T	p/m Xylene	0.544	0.523	3.9	68	0.00
77	T	o Xylene	0.492	0.488	0.8	70	0.00
78	T	Styrene	0.764	0.741	3.0	68	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00
80	T	Bromoform	0.179	0.152	15.1	63	0.00
82	T	Isopropylbenzene	3.191	2.946	7.7	68	0.00
83	S	4-Bromofluorobenzene	1.121	1.055	5.9	69	0.00
84	T	Bromobenzene	0.567	0.509	10.2	67	0.00
85	T	n-Propylbenzene	3.679	3.478	5.5	70	0.00
86	T	1,4-Dichlorobutane	0.716	0.691	3.5	72	0.00
87	T	1,1,2,2-Tetrachloroethane	0.330	0.287	13.0	65	0.00
88	T	4-Ethyltoluene	2.949	2.806	4.8	71	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2017\171108A\
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Operator : VOA101:PD
Sample : WG1060957-2
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
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	2.117	1.982	6.4	72	0.00
90	T	1,3,5-Trimethylbenzene	2.509	2.312	7.9	68	0.00
91	T	1,2,3-Trichloropropane	0.277	0.247	10.8	66	0.00
92	T	trans-1,4-Dichloro-2-butene	0.101	0.074	26.7#	58	0.00
93	T	4-Chlorotoluene	2.141	1.968	8.1	69	0.00
94	T	tert-Butylbenzene	2.102	1.944	7.5	68	0.00
97	T	1,2,4-Trimethylbenzene	2.460	2.263	8.0	68	0.00
98	T	sec-Butylbenzene	2.966	2.799	5.6	69	0.00
99	T	p-Isopropyltoluene	2.450	2.312	5.6	70	0.00
100	T	1,3-Dichlorobenzene	1.154	1.071	7.2	69	0.00
101	T	1,4-Dichlorobenzene	1.147	1.053	8.2	70	0.00
102	T	p-Diethylbenzene	1.349	1.261	6.5	69	0.00
103	T	n-Butylbenzene	2.087	2.002	4.1	71	0.00
104	T	1,2-Dichlorobenzene	0.961	0.872	9.3	69	0.00
105	T	1,2,4,5-Tetramethylbenzene	1.879	1.726	8.1	69	0.00
106	T	1,2-Dibromo-3-chloropropane	0.036	0.029	19.4	62	0.00
107	T	1,3,5-Trichlorobenzene	0.595	0.550	7.6	69	0.00
108	T	Hexachlorobutadiene	0.200	0.173	13.5	69	0.00
109	T	1,2,4-Trichlorobenzene	0.449	0.391	12.9	65	0.00
110	T	Naphthalene	0.764	0.652	14.7	66	0.00
111	T	1,2,3-Trichlorobenzene	0.305	0.263	13.8	66	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\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-2
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.872	96	327258	10.000	ug/L		0.00
59) Chlorobenzene-d5	9.670	117	249731	10.000	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	12.594	152	115791	10.000	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	5.021	113	77167	10.077	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.77%				
43) 1,2-Dichloroethane-d4	5.572	65	82880	10.989	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.89%				
60) Toluene-d8	7.678	98	330630	9.521	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.21%				
83) 4-Bromofluorobenzene	11.274	95	122152	9.408	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.08%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.501	85	58117	8.568	ug/L		98
3) Chloromethane	1.676	50	95776M1	8.079	ug/L		
4) Vinyl chloride	1.752	62	78570	8.117	ug/L		96
5) Bromomethane	2.036	94	14364	4.583	ug/L		98
6) Chloroethane	2.145	64	35592	9.481	ug/L		94
7) Trichlorofluoromethane	2.276	101	92472	9.180	ug/L		100
8) Ethyl ether	2.560	74	18664	8.215	ug/L	#	50
10) 1,1-Dichloroethene	2.746	96	48970	8.528	ug/L	#	65
11) Carbon disulfide	2.778	76	141351	7.916	ug/L		100
12) Freon-113	2.784	101	51888	8.883	ug/L	#	55
13) Iodomethane	2.882	142	24081	3.128	ug/L		98
14) Acrolein	3.067	56	4364	7.098	ug/L		88
15) Methylene chloride	3.291	84	54118	8.800	ug/L	#	64
17) Acetone	3.340	43	8714	9.092	ug/L		99
18) trans-1,2-Dichloroethene	3.444	96	58685	8.848	ug/L		74
19) Methyl acetate	3.455	43	17575	9.149	ug/L	#	92
20) Methyl tert-butyl ether	3.537	73	93245	8.725	ug/L	#	84
21) tert-Butyl alcohol	3.629	59	8126	36.700	ug/L		90
22) Diisopropyl ether	3.897	45	237326	9.944	ug/L		92
23) 1,1-Dichloroethane	4.033	63	135272	9.344	ug/L		96
24) Halothane	4.088	117	42757	8.860	ug/L		98
25) Acrylonitrile	4.093	53	10921	9.557	ug/L		95
26) Ethyl tert-butyl ether	4.251	59	157970	9.182	ug/L		90
27) Vinyl acetate	4.279	43	89042	7.963	ug/L	#	92
28) cis-1,2-Dichloroethene	4.568	96	63275	9.019	ug/L	#	77

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-2
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2,2-Dichloropropane	4.666	77	92470	9.097	ug/L		89
30) Bromochloromethane	4.764	128	22274	9.447	ug/L	#	63
31) Cyclohexane	4.759	56	151778	9.657	ug/L		71
32) Chloroform	4.841	83	106998	9.646	ug/L		97
33) Ethyl acetate	4.966	43	29183	9.360	ug/L	#	89
34) Carbon tetrachloride	4.977	117	85952	9.350	ug/L		98
35) Tetrahydrofuran	4.994	42	11425	9.533	ug/L	#	84
37) 1,1,1-Trichloroethane	5.043	97	100862	9.605	ug/L		93
39) 2-Butanone	5.157	43	10321M1	8.405	ug/L		
40) 1,1-Dichloropropene	5.174	75	93301	9.389	ug/L		99
41) Benzene	5.430	78	254175	9.131	ug/L	#	89
42) tert-Amyl methyl ether	5.545	73	101679	8.810	ug/L	#	84
44) 1,2-Dichloroethane	5.648	62	71702	10.309	ug/L		95
47) Methyl cyclohexane	6.041	83	111783	9.657	ug/L	#	62
48) Trichloroethene	6.063	95	66753	9.530	ug/L		95
50) Dibromomethane	6.532	93	24574	9.772	ug/L		97
51) 1,2-Dichloropropane	6.636	63	74612	9.739	ug/L		94
53) 2-Chloroethyl vinyl ether	7.394	63	12501	6.448	ug/L	#	80
54) Bromodichloromethane	6.718	83	76769	9.846	ug/L		99
57) 1,4-Dioxane	6.947	88	7053	278.307	ug/L	#	53
58) cis-1,3-Dichloropropene	7.460	75	87670	9.237	ug/L		90
61) Toluene	7.738	92	166209	8.880	ug/L		97
62) 4-Methyl-2-pentanone	8.218	58	10740	8.883	ug/L	#	91
63) Tetrachloroethene	8.224	166	65212	9.053	ug/L		98
65) trans-1,3-Dichloropropene	8.267	75	64928	8.432	ug/L		91
67) Ethyl methacrylate	8.475	69	40479M1	8.733	ug/L		
68) 1,1,2-Trichloroethane	8.464	83	30229	9.110	ug/L		97
69) Chlorodibromomethane	8.693	129	40589	8.725	ug/L		96
70) 1,3-Dichloropropane	8.813	76	66646	9.134	ug/L		99
71) 1,2-Dibromoethane	8.993	107	32261	8.987	ug/L		99
72) 2-Hexanone	9.331	43	18117M1	9.165	ug/L		
73) Chlorobenzene	9.691	112	181241	9.274	ug/L		98
74) Ethylbenzene	9.735	91	334252	9.433	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.784	131	56053	9.047	ug/L		98
76) p/m Xylene	9.937	106	261392	19.250	ug/L		87
77) o Xylene	10.510	106	243965	19.863	ug/L		88
78) Styrene	10.581	104	369888	19.383	ug/L		96
80) Bromoform	10.614	173	17577	8.500	ug/L		100
82) Isopropylbenzene	10.919	105	341090	9.230	ug/L		100
84) Bromobenzene	11.394	156	58950	8.985	ug/L		100
85) n-Propylbenzene	11.438	91	402748	9.453	ug/L		96

Quantitation Report (QT Reviewed)

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Data File : V01171108A01.D
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Operator : VOA101:PD
Sample : WG1060957-2
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Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	1,4-Dichlorobutane	11.465	55	79968	9.642	ug/L	94
87)	1,1,2,2-Tetrachloroethane	11.536	83	33233	8.706	ug/L	99
88)	4-Ethyltoluene	11.568	105	324880	9.513	ug/L	100
89)	2-Chlorotoluene	11.623	91	229502M1	9.361	ug/L	
90)	1,3,5-Trimethylbenzene	11.678	105	267692	9.214	ug/L	98
91)	1,2,3-Trichloropropane	11.689	75	28642M1	8.929	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.749	53	8602M1	7.384	ug/L	
93)	4-Chlorotoluene	11.825	91	227876	9.193	ug/L	94
94)	tert-Butylbenzene	12.049	119	225052	9.247	ug/L	93
97)	1,2,4-Trimethylbenzene	12.136	105	262089	9.203	ug/L	99
98)	sec-Butylbenzene	12.256	105	324109	9.438	ug/L	99
99)	p-Isopropyltoluene	12.425	119	267755	9.437	ug/L	97
100)	1,3-Dichlorobenzene	12.512	146	124010	9.283	ug/L	99
101)	1,4-Dichlorobenzene	12.611	146	121925	9.178	ug/L	99
102)	p-Diethylbenzene	12.840	119	146009	9.346	ug/L	99
103)	n-Butylbenzene	12.900	91	231829	9.594	ug/L	98
104)	1,2-Dichlorobenzene	13.085	146	101003	9.075	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.718	119	199866	9.185	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.953	155	3373	8.035	ug/L	100
107)	1,3,5-Trichlorobenzene	13.980	180	63668	9.248	ug/L	96
108)	Hexachlorobutadiene	14.613	225	19974	8.615	ug/L	98
109)	1,2,4-Trichlorobenzene	14.651	180	45233	8.698	ug/L	97
110)	Naphthalene	14.984	128	75504	8.535	ug/L	100
111)	1,2,3-Trichlorobenzene	15.170	180	30475	8.634	ug/L	97

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

Quantitation Report (QT Reviewed)

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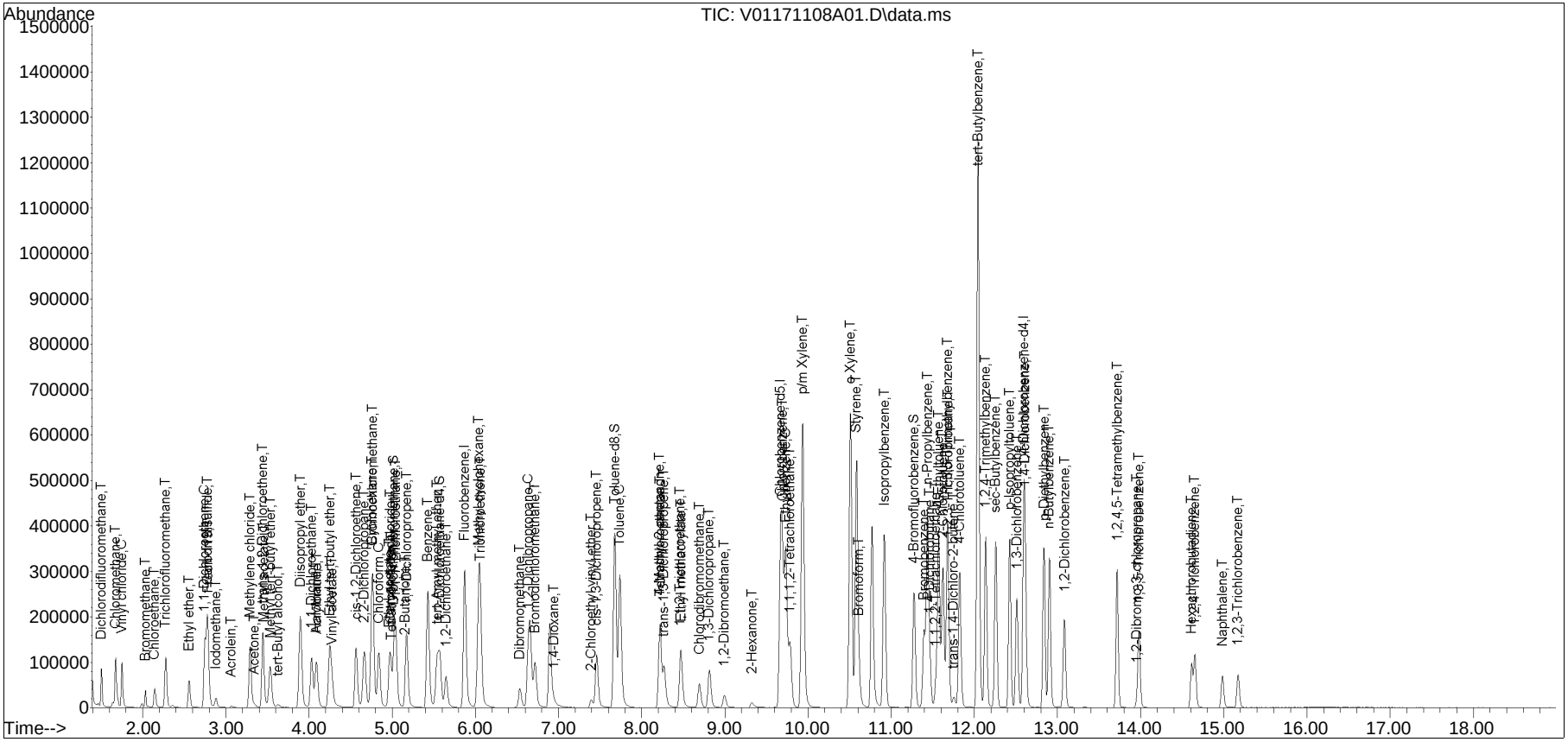
Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

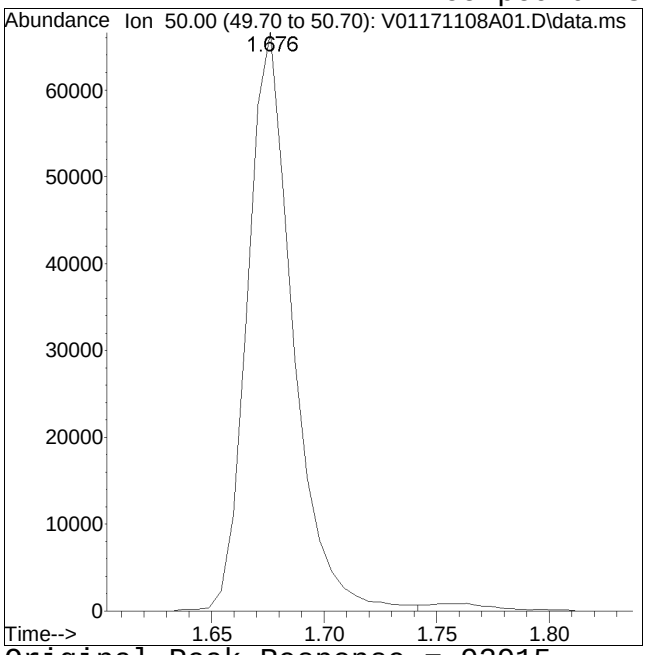
Sub List : 8260-Curve - Megamix plus Diox



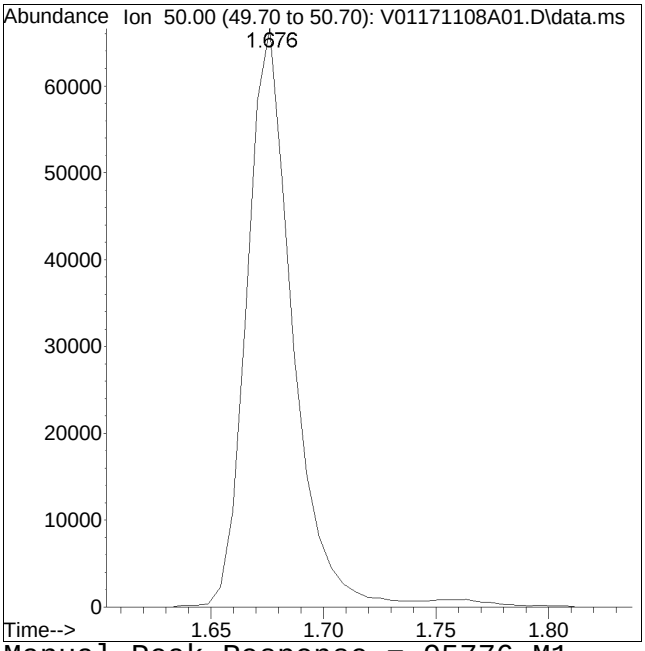
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-2 Quant Date : 11/8/2017 8:49 am

Compound #3: Chloromethane



Original Peak Response = 93915



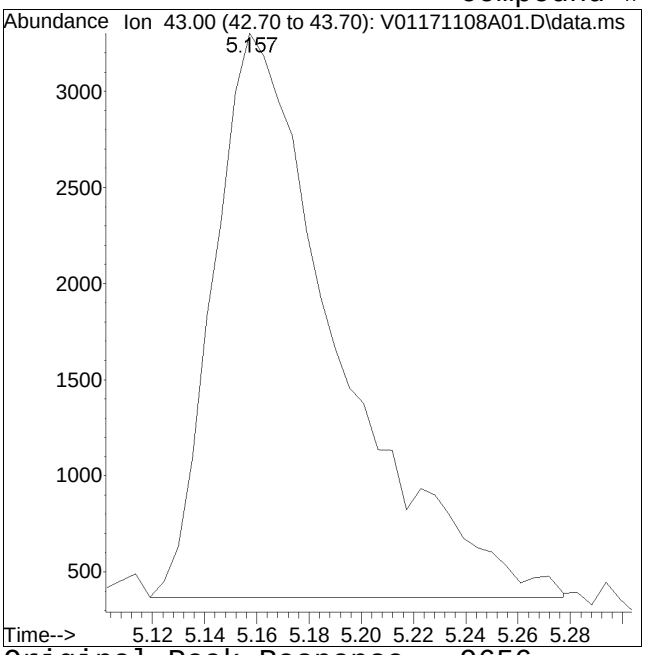
Manual Peak Response = 95776 M1

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

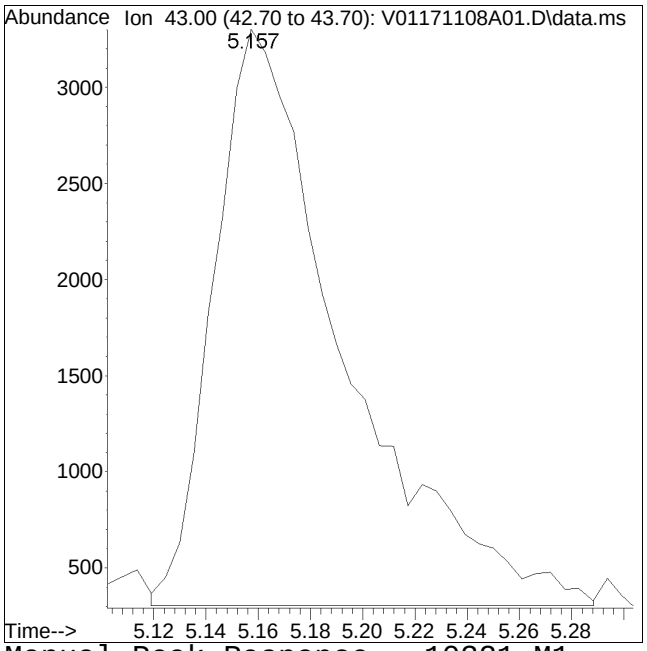
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-2 Quant Date : 11/8/2017 8:49 am

Compound #39: 2-Butanone



Original Peak Response = 9656



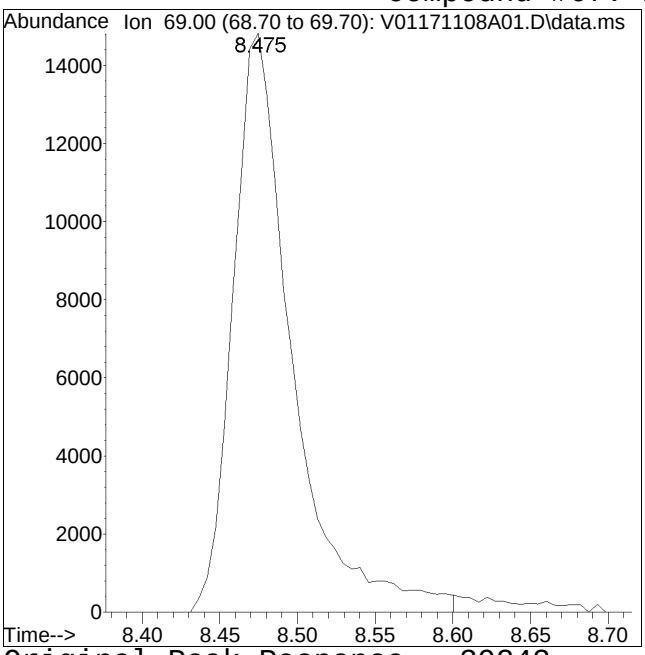
Manual Peak Response = 10321 M1

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

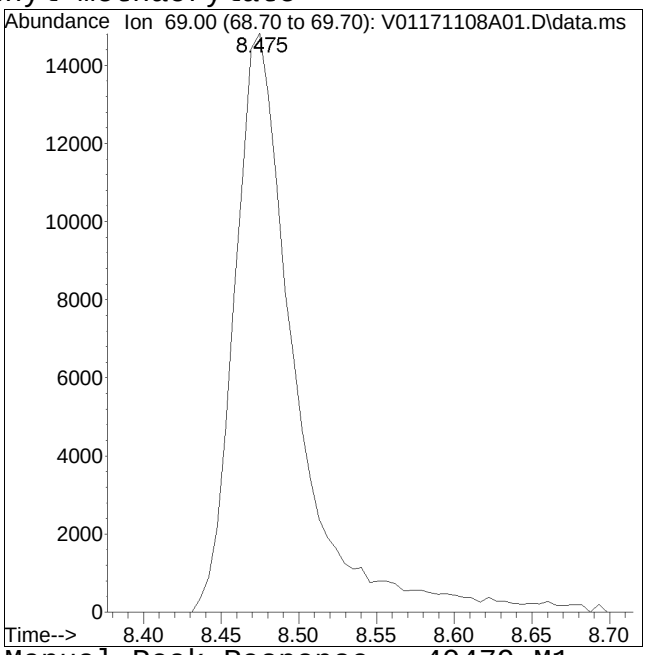
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-2 Quant Date : 11/8/2017 8:49 am

Compound #67: Ethyl methacrylate



Original Peak Response = 39243



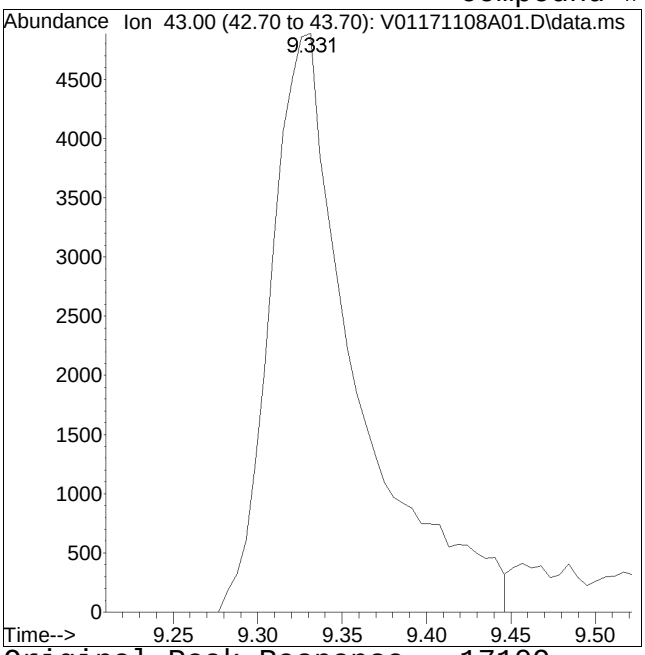
Manual Peak Response = 40479 M1

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

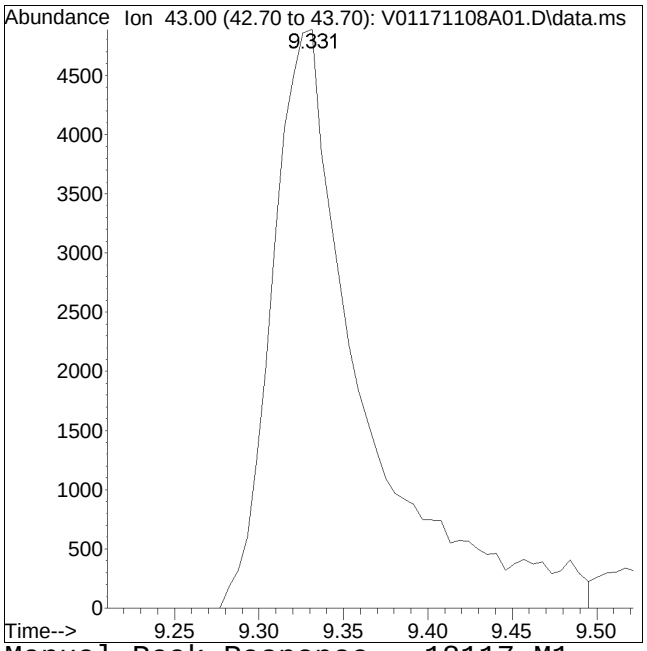
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-2 Quant Date : 11/8/2017 8:49 am

Compound #72: 2-Hexanone



Original Peak Response = 17109



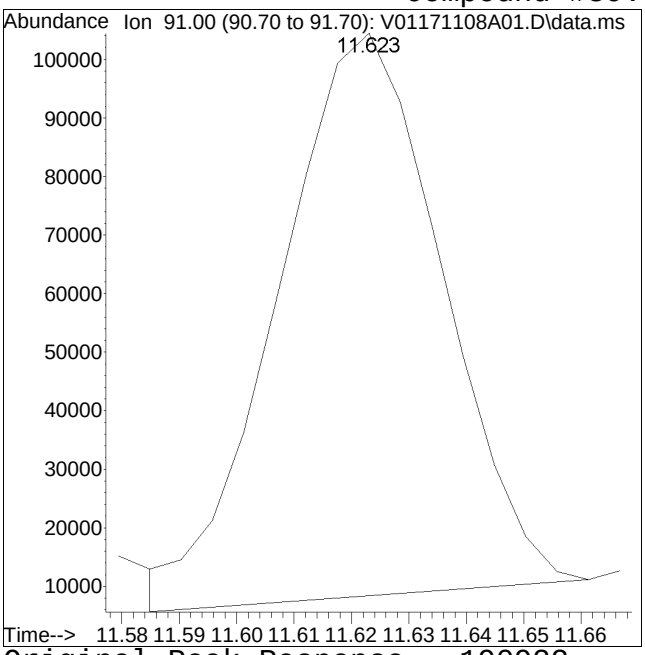
Manual Peak Response = 18117 M1

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

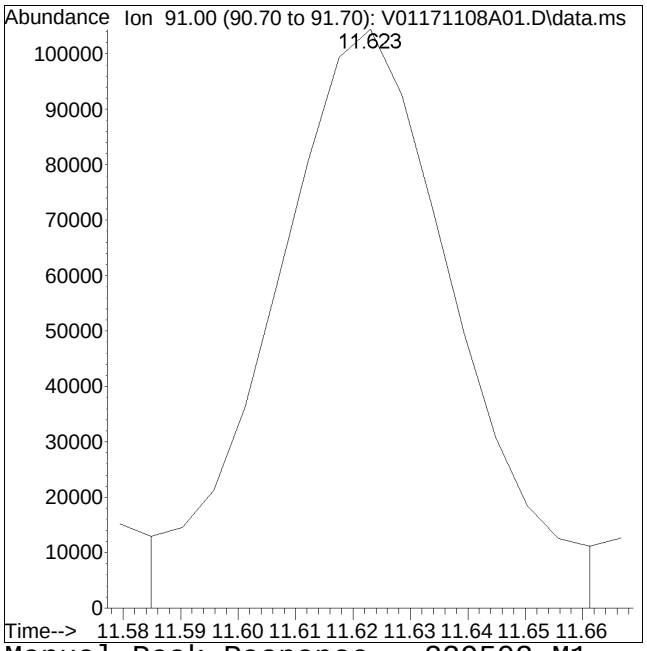
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-2 Quant Date : 11/8/2017 8:49 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 190922



Manual Peak Response = 229502 M1

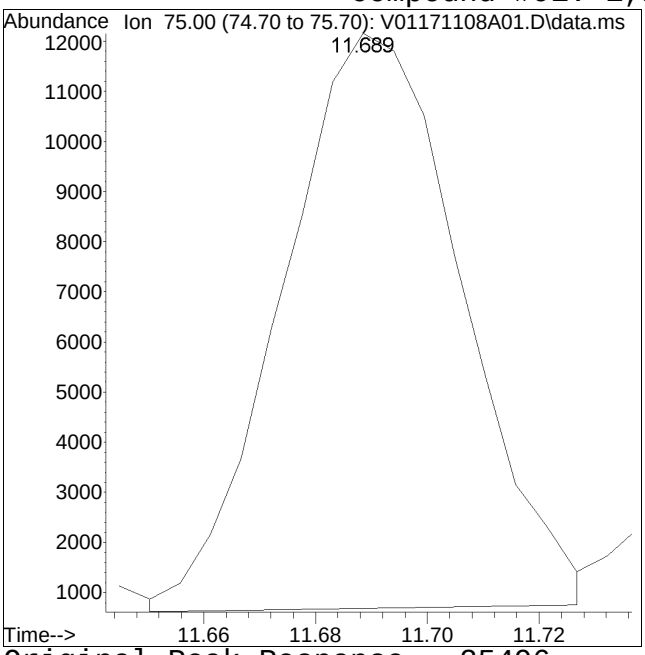
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

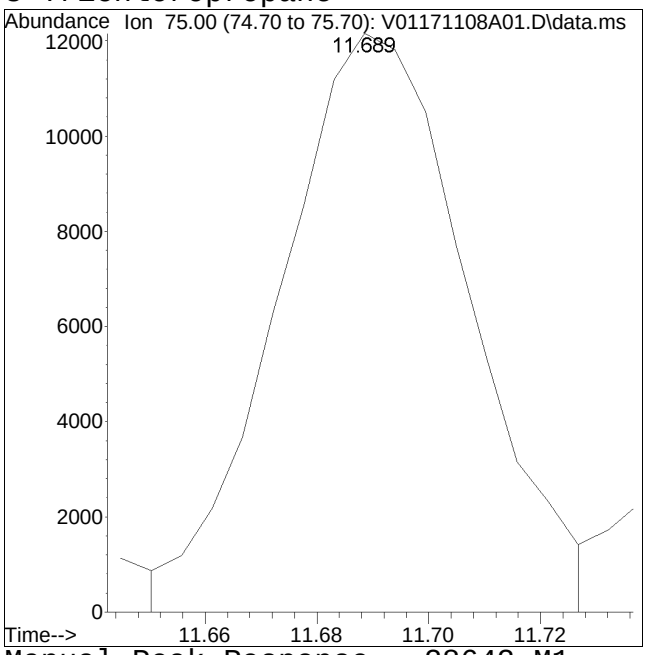
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A01.D
Date Inj'd : 11/8/2017 8:10 am
Sample : WG1060957-2

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 8:49 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 25496



Manual Peak Response = 28642 M1

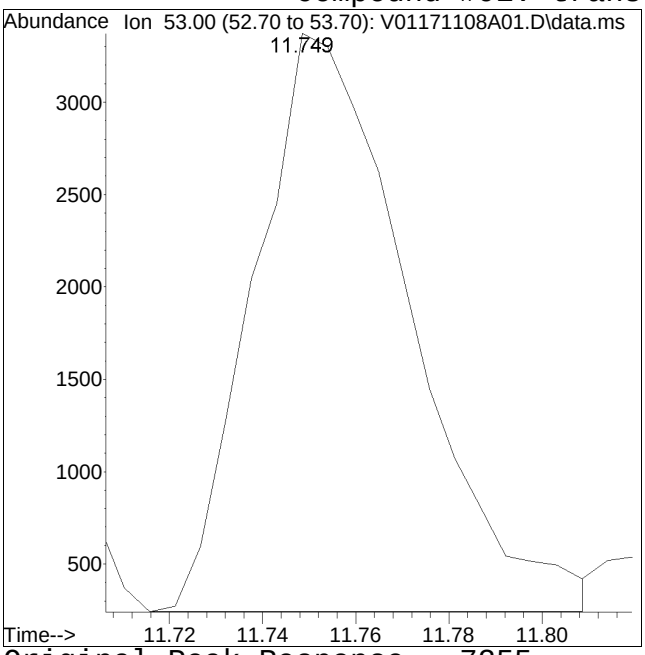
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

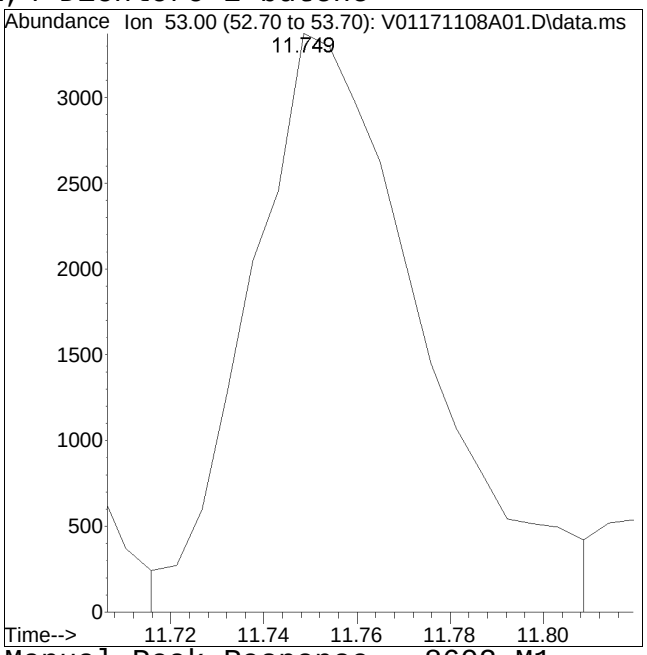
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A01.D
Date Inj'd : 11/8/2017 8:10 am
Sample : WG1060957-2

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 8:49 am

Compound #92: trans-1,4-Dichloro-2-butene





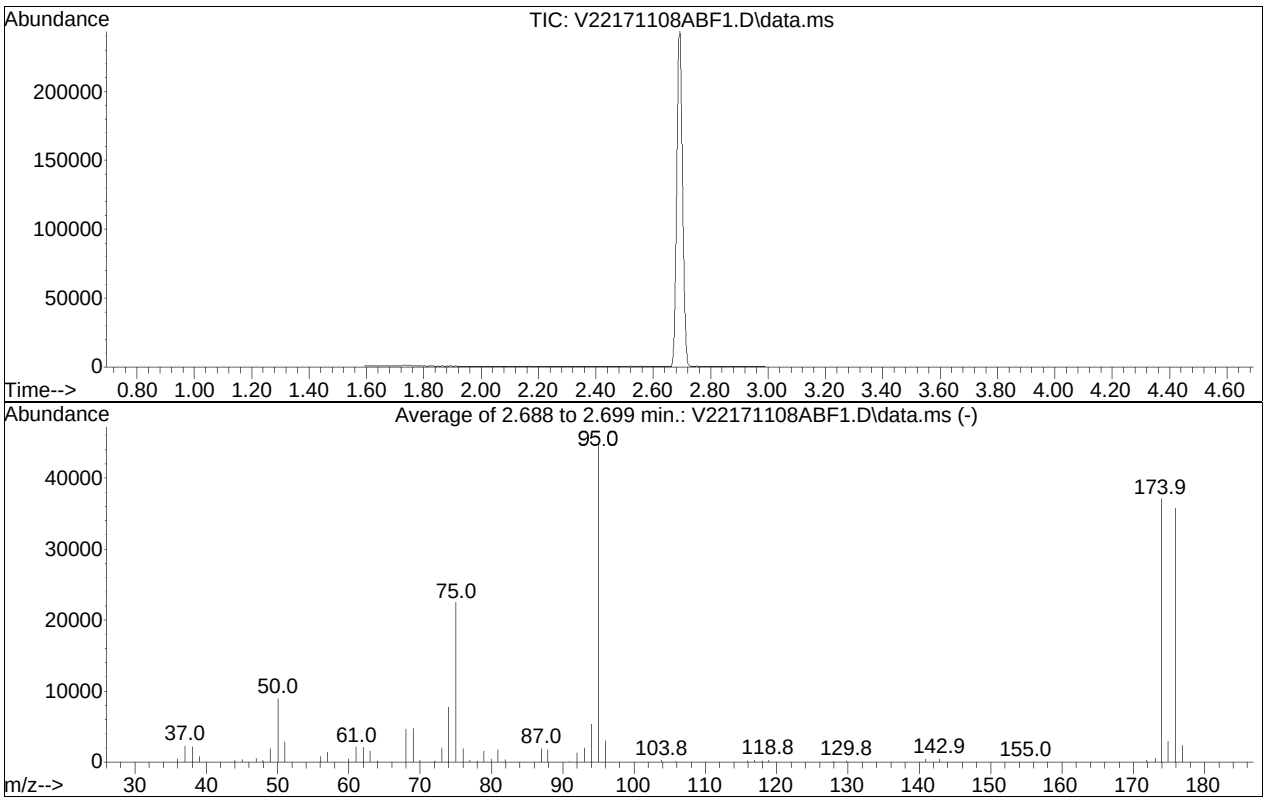
Original Peak Response = 7255 Manual Peak Response = 8602 M1

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

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108ABF1.D
Acq On : 08 Nov 2017 07:21 am
Operator : VOA122:PD
Sample : WG1060967-1
Misc : WG1060967
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Aug 05 11:45:14 2017



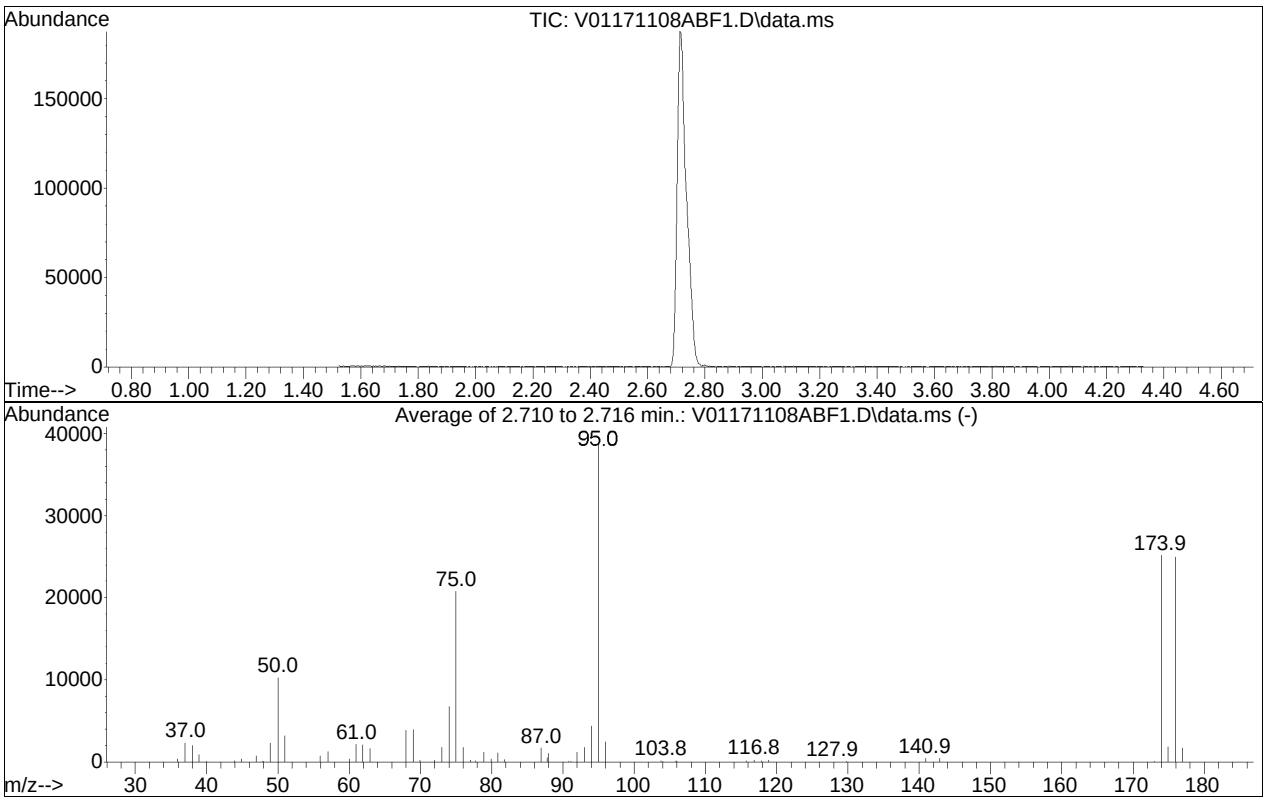
AutoFind: Scans 210, 211, 212; Background Corrected with Scan 203

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	8950	PASS
75	95	30	60	50.0	22499	PASS
95	95	100	100	100.0	44997	PASS
96	95	5	9	6.7	3009	PASS
173	174	0.00	2	1.5	559	PASS
174	95	50	100	82.6	37179	PASS
175	174	5	9	8.0	2963	PASS
176	174	95	101	96.1	35715	PASS
177	176	5	9	6.5	2332	PASS

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108ABF1.D
Acq On : 8 Nov 2017 7:50 am
Operator : VOA101:PD
Sample : WG1060957-1
Misc : WG1060957
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Title : VOLATILES BY GC/MS
Last Update : Sat Sep 30 14:27:05 2017



AutoFind: Scans 411, 412, 413; Background Corrected with Scan 398

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	10296	PASS
75	95	30	60	53.6	20827	PASS
95	95	100	100	100.0	38869	PASS
96	95	5	9	6.4	2473	PASS
173	174	0.00	2	0.5	119	PASS
174	95	50	100	64.8	25187	PASS
175	174	5	9	7.5	1882	PASS
176	174	95	101	99.0	24923	PASS
177	176	5	9	6.8	1699	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A05.D
Acq On : 08 Nov 2017 09:30 am
Operator : VOA122:PD
Sample : WG1060967-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 09:53:08 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	260473	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery = 96.81%			
62) Chlorobenzene-d5	9.646	117	197411	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery = 93.96%			
83) 1,4-Dichlorobenzene-d4	12.341	152	93562	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery = 87.37%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.265	113	64417	9.569	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.69%			
46) 1,2-Dichloroethane-d4	5.802	65	66127	10.613	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.13%			
63) Toluene-d8	7.790	98	258858	10.908	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.08%			
87) 4-Bromofluorobenzene	11.133	95	89471	11.070	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	0.000		0		N.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	3.011	76	509		N.D.	
15) Methylene chloride	3.551	84	99		N.D.	
17) Acetone	0.000		0		N.D.	
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
21) Methyl tert-butyl ether	0.000		0		N.D.	
25) 1,1-Dichloroethane	0.000		0		N.D.	
27) Acrylonitrile	0.000		0		N.D.	
29) Vinyl acetate	0.000		0		N.D.	
30) cis-1,2-Dichloroethene	0.000		0		N.D.	
31) 2,2-Dichloropropane	0.000		0		N.D.	
32) Bromochloromethane	0.000		0		N.D.	
34) Chloroform	5.085	83	189		N.D.	

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A05.D
Acq On : 08 Nov 2017 09:30 am
Operator : VOA122:PD
Sample : WG1060967-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 09:53:08 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon tetrachloride	0.000		0		N.D.	
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
42) 1,1-Dichloropropene	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
53) Dibromomethane	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
73) 1,3-Dichloropropane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.646	91	87		N.D.	
79) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
88) Bromobenzene	0.000		0		N.D.	
89) n-Propylbenzene	11.133	91	229		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
92) 4-Ethyltoluene	0.000		0		N.D.	
93) 2-Chlorotoluene	0.000		0		N.D.	
94) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
95) 1,2,3-Trichloropropane	0.000		0		N.D.	
96) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
97) 4-Chlorotoluene	11.645	91	94		N.D.	
98) tert-Butylbenzene	0.000		0		N.D.	

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A05.D
Acq On : 08 Nov 2017 09:30 am
Operator : VOA122:PD
Sample : WG1060967-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 09:53:08 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
102)	sec-Butylbenzene	0.000		0		N.D.	
103)	p-Isopropyltoluene	0.000		0		N.D.	
104)	1,3-Dichlorobenzene	12.358	146	99		N.D.	
105)	1,4-Dichlorobenzene	12.358	146	99		N.D.	
106)	p-Diethylbenzene	0.000		0		N.D.	
107)	n-Butylbenzene	0.000		0		N.D.	
108)	1,2-Dichlorobenzene	0.000		0		N.D.	
109)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
110)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
112)	Hexachlorobutadiene	0.000		0		N.D.	
113)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
114)	Naphthalene	14.489	128	84		N.D.	
115)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

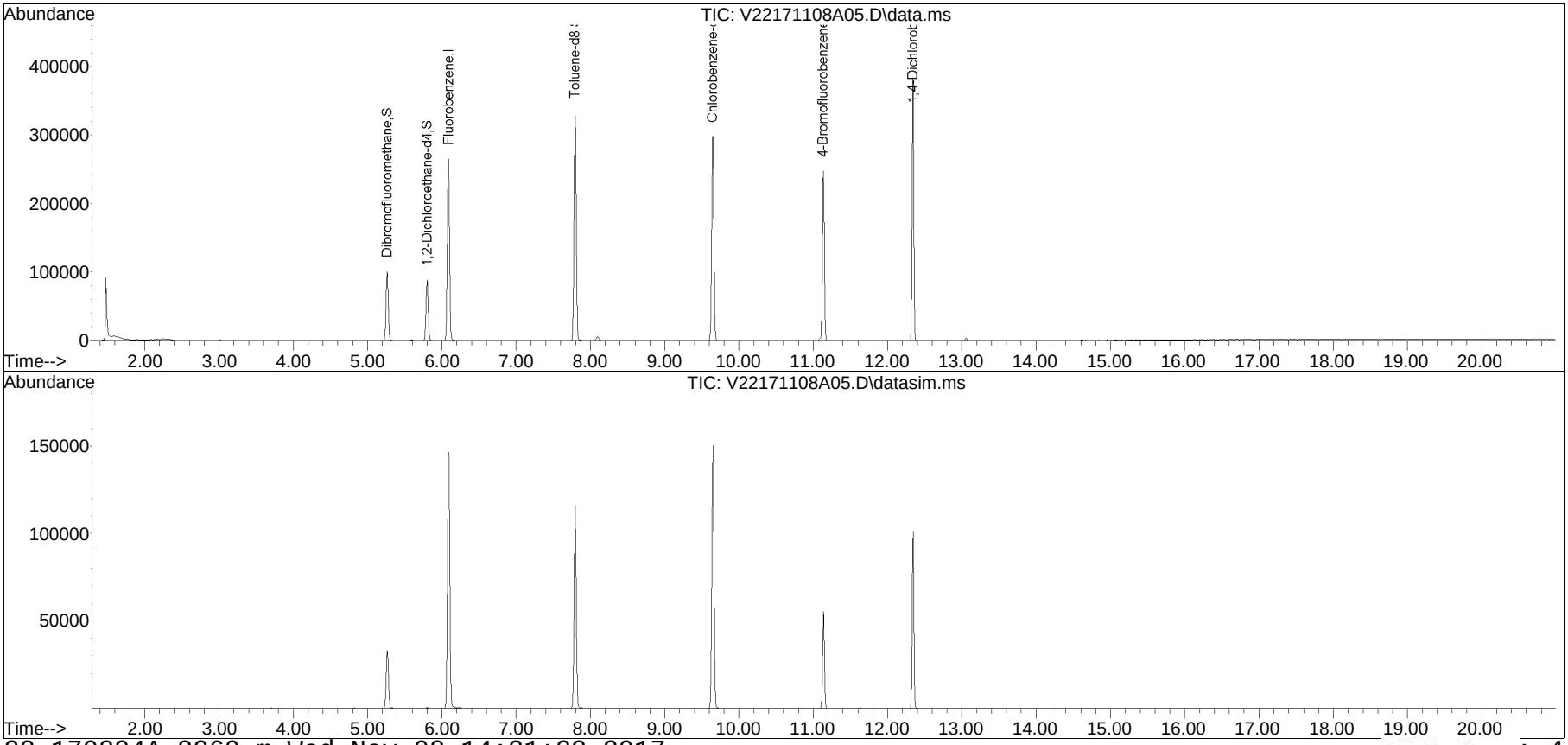
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A05.D
Acq On : 08 Nov 2017 09:30 am
Operator : VOA122:PD
Sample : WG1060967-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 09:53:08 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox71108A\V22171108A02.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22171108A05.D	Operator	: VOA122:PD
Date Inj'd	: 11/8/2017 9:30 am	Instrument	: VOA122
Sample	: WG1060967-5,31,10,10	Quant Date	: 11/8/2017 9:53 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A04.D
Acq On : 8 Nov 2017 9:35 am
Operator : VOA101:PD
Sample : WG1060957-5,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 09:55:57 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	316608	10.000	ug/L	0.00
Standard Area 1 = 327258			Recovery = 96.75%			
59) Chlorobenzene-d5	9.675	117	237397	10.000	ug/L	0.00
Standard Area 1 = 249731			Recovery = 95.06%			
79) 1,4-Dichlorobenzene-d4	12.600	152	109134	10.000	ug/L	0.00
Standard Area 1 = 115791			Recovery = 94.25%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.026	113	74527	10.060	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%			
43) 1,2-Dichloroethane-d4	5.577	65	81056	11.109	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.09%			
60) Toluene-d8	7.678	98	318000	9.633	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.33%			
83) 4-Bromofluorobenzene	11.279	95	115295	9.421	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.21%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	1.671	50	247		N.D.	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	0.000		0		N.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	2.773	76	631		N.D.	
15) Methylene chloride	0.000		0		N.D.	
17) Acetone	0.000		0		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	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.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A04.D
Acq On : 8 Nov 2017 9:35 am
Operator : VOA101:PD
Sample : WG1060957-5,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 09:55:57 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.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	5.654	62	51		N.D.	
48) Trichloroethene	6.019	95	55		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	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	9.686	91	62		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		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	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	11.699	105	62		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	11.699	105	123		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	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A04.D
Acq On : 8 Nov 2017 9:35 am
Operator : VOA101:PD
Sample : WG1060957-5,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 09:55:57 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.180	105	104	N.D.		
98)	sec-Butylbenzene	12.278	105	311	N.D.		
99)	p-Isopropyltoluene	12.431	119	248	N.D.		
100)	1,3-Dichlorobenzene	12.540	146	63	N.D.		
101)	1,4-Dichlorobenzene	12.616	146	382	N.D.		
102)	p-Diethylbenzene	0.000		0	N.D.		
103)	n-Butylbenzene	12.949	91	242	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
105)	1,2,4,5-Tetramethylben...	13.735	119	480	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	14.624	225	666	0.305	ug/L #	90
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
110)	Naphthalene	15.028	128	52	N.D.		
111)	1,2,3-Trichlorobenzene	15.191	180	63	N.D.		

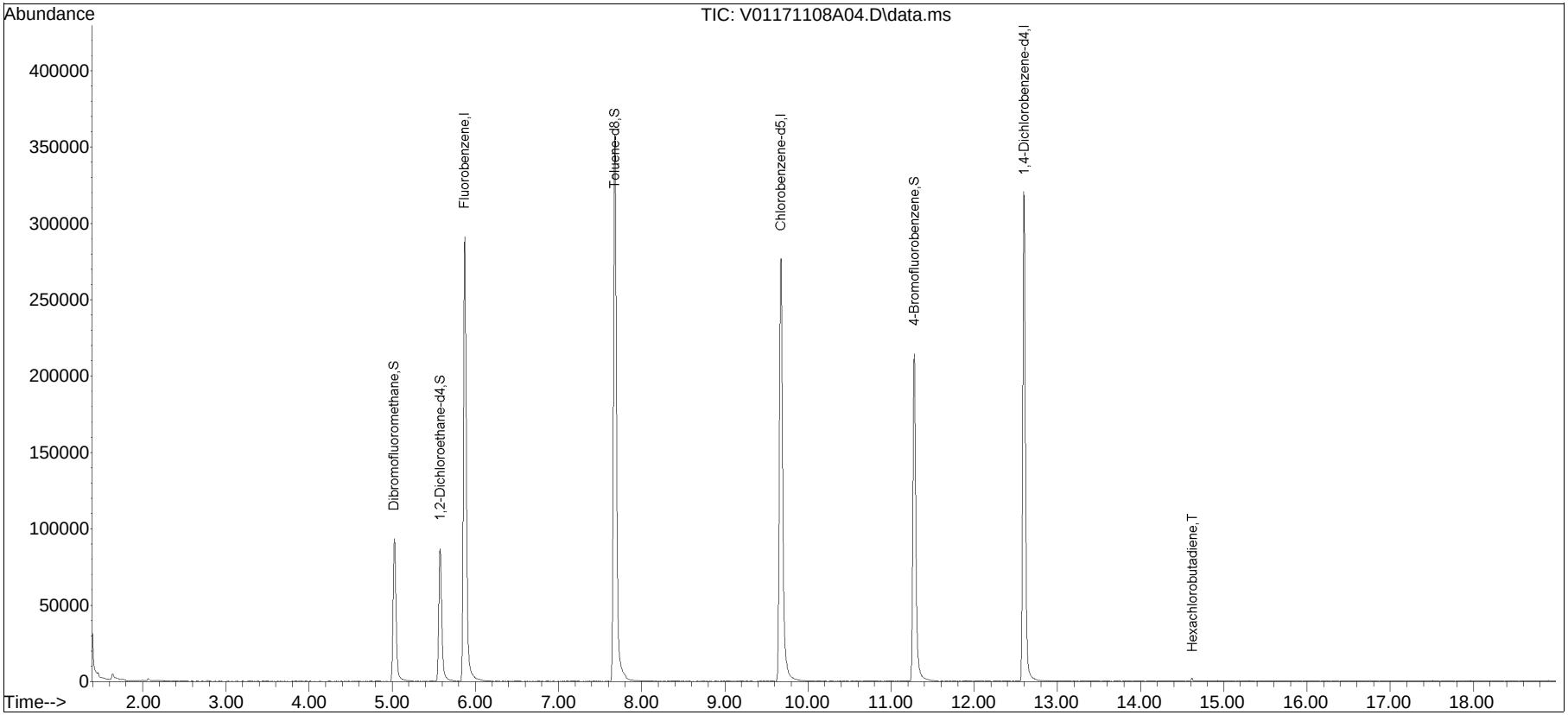
(#) = qualifier out of range (m) = manual integration (+) = signals summed

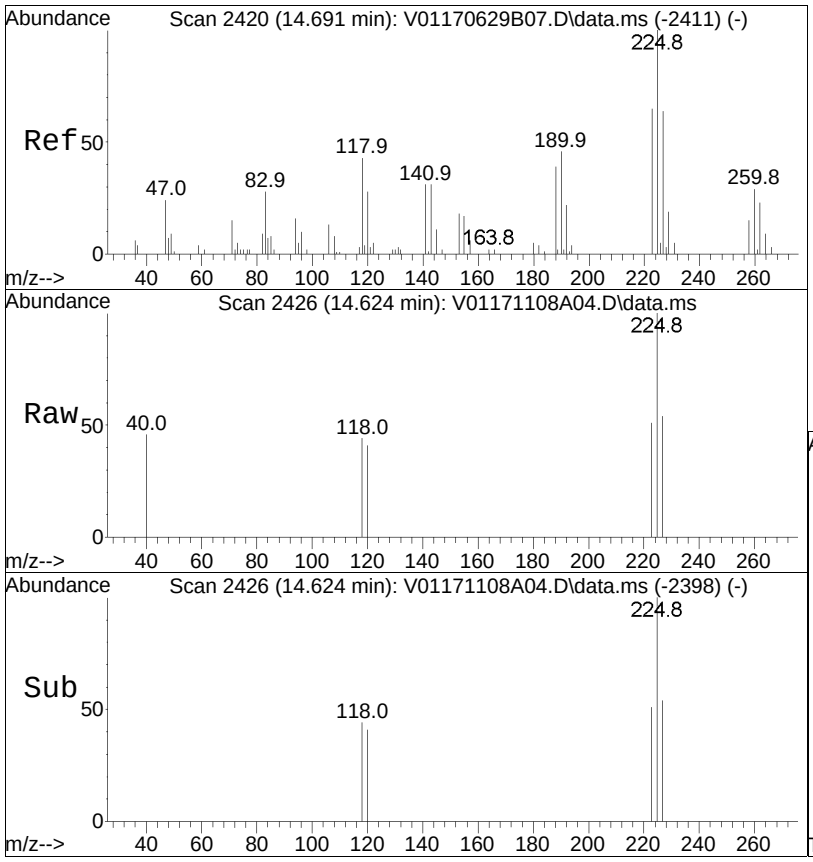
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A04.D
Acq On : 8 Nov 2017 9:35 am
Operator : VOA101:PD
Sample : WG1060957-5,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 09:55:57 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox71108A\V01171108A01.D•

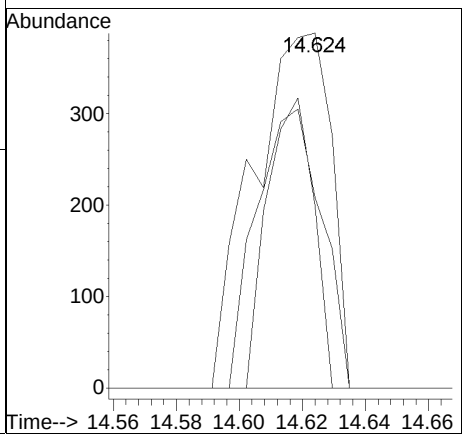




#108
Hexachlorobutadiene
Concen: 0.30 ug/L
RT: 14.624 min Scan# 2426
Delta R.T. 0.004 min
Lab File: V01171108A04.D
Acq: 8 Nov 2017 9:35 am

Tgt Ion:225 Resp: 666

Ion	Ratio	Lower	Upper
225	100		
223	48.8	50.7	76.1#
227	65.6	53.5	80.3



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2017\1	QMethod	: V101_170928_8260.m
Data File	: V01171108A04.D	Operator	: VOA101:PD
Date Inj'd	: 11/8/2017 9:35 am	Instrument	: VOA 101
Sample	: WG1060957-5,31,10,10	Quant Date	: 11/8/2017 9:55 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	269066	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery = 100.00%			
62) Chlorobenzene-d5	9.646	117	210100	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.341	152	107092	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.266	113	67254	9.672	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.72%			
46) 1,2-Dichloroethane-d4	5.802	65	70121	10.894	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.94%			
63) Toluene-d8	7.790	98	272413	10.786	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.86%			
87) 4-Bromofluorobenzene	11.133	95	100840	10.900	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.638	85	61547	11.420	ug/L	99
3) Chloromethane	1.827	50	52348	8.526	ug/L	99
4) Vinyl chloride	1.903	62	78589	10.228	ug/L	100
5) Bromomethane	2.216	94	17827M1	3.544	ug/L	
6) Chloroethane	2.348	64	52532	11.366	ug/L	97
7) Trichlorofluoromethane	2.490	101	103001	9.732	ug/L	100
8) Ethyl ether	2.794	74	26572	8.088	ug/L #	1
10) 1,1-Dichloroethene	2.992	96	55675	8.522	ug/L	88
11) Carbon disulfide	3.011	76	147582	8.794	ug/L	99
15) Methylene chloride	3.551	84	60431	8.680	ug/L	88
17) Acetone	3.599	43	7596	9.033	ug/L	99
18) trans-1,2-Dichloroethene	3.703	96	64381	8.531	ug/L	92
21) Methyl tert-butyl ether	3.807	73	130559	8.089	ug/L	95
25) 1,1-Dichloroethane	4.299	63	114501	9.594	ug/L	98
27) Acrylonitrile	4.347	53	11407	9.556	ug/L	93
29) Vinyl acetate	4.546	43	107422	9.776	ug/L	95
30) cis-1,2-Dichloroethene	4.820	96	69416	8.573	ug/L	91
31) 2,2-Dichloropropane	4.934	77	96452	9.342	ug/L	92
32) Bromochloromethane	5.010	128	30168	8.851	ug/L #	87
34) Chloroform	5.086	83	110849	8.937	ug/L	97

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Carbon tetrachloride	5.228	117	91614	9.358	ug/L		98
39) 1,1,1-Trichloroethane	5.294	97	105411	8.941	ug/L		97
41) 2-Butanone	5.398	43	12234	9.954	ug/L		98
42) 1,1-Dichloropropene	5.417	75	87874	9.025	ug/L		98
44) Benzene	5.668	78	275443	9.465	ug/L		95
47) 1,2-Dichloroethane	5.875	62	72914	9.653	ug/L		99
51) Trichloroethene	6.256	95	67501	8.977	ug/L		97
53) Dibromomethane	6.700	93	31352	11.193	ug/L	#	83
54) 1,2-Dichloropropane	6.813	63	60006	9.501	ug/L		98
57) Bromodichloromethane	6.875	83	84182	8.927	ug/L		90
60) 1,4-Dioxane	7.102	88	5264	463.832	ug/L	#	27
61) cis-1,3-Dichloropropene	7.582	75	90864	8.374	ug/L	#	92
64) Toluene	7.856	92	163596	9.583	ug/L		100
65) 4-Methyl-2-pentanone	8.301	58	11278	9.035	ug/L		91
66) Tetrachloroethene	8.292	166	72862	8.250	ug/L		94
68) trans-1,3-Dichloropropene	8.330	75	75950	8.999	ug/L		94
71) 1,1,2-Trichloroethane	8.519	83	37382	9.258	ug/L		98
72) Chlorodibromomethane	8.728	129	54669	8.583	ug/L		98
73) 1,3-Dichloropropane	8.851	76	77642	9.478	ug/L		99
74) 1,2-Dibromoethane	9.012	107	42837	8.369	ug/L		99
76) 2-Hexanone	9.315	43	17691	9.752	ug/L		97
77) Chlorobenzene	9.665	112	180150	9.073	ug/L		97
78) Ethylbenzene	9.712	91	314123	9.362	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.750	131	60632	8.757	ug/L		97
80) p/m Xylene	9.902	106	251586	18.720	ug/L		98
81) o Xylene	10.442	106	263510	21.369	ug/L		89
82) Styrene	10.517	104	174376	8.764	ug/L		95
84) Bromoform	10.517	173	23024	5.605	ug/L		99
86) Isopropylbenzene	10.820	105	345858	10.338	ug/L		98
88) Bromobenzene	11.247	156	69995	8.646	ug/L		99
89) n-Propylbenzene	11.294	91	398908	10.474	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.370	83	48006	9.666	ug/L		99
92) 4-Ethyltoluene	11.427	105	321150	10.466	ug/L		100
93) 2-Chlorotoluene	11.455	91	259214	10.537	ug/L		98
94) 1,3,5-Trimethylbenzene	11.521	105	273599	10.439	ug/L		98
95) 1,2,3-Trichloropropane	11.521	75	40001	10.034	ug/L		98
96) trans-1,4-Dichloro-2-b...	11.569	53	9823	7.847	ug/L	#	81
97) 4-Chlorotoluene	11.645	91	233937	10.439	ug/L		97
98) tert-Butylbenzene	11.863	119	301367	12.545	ug/L		91

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	11.936	105	339686	12.946	ug/L	97
102) sec-Butylbenzene	12.048	105	357007	10.497	ug/L	98
103) p-Isopropyltoluene	12.203	119	308274	10.444	ug/L	98
104) 1,3-Dichlorobenzene	12.264	146	151040	9.634	ug/L	98
105) 1,4-Dichlorobenzene	12.359	146	147611	9.531	ug/L	97
106) p-Diethylbenzene	12.574	119	174038	10.165	ug/L	98
107) n-Butylbenzene	12.635	91	278146	10.784	ug/L	98
108) 1,2-Dichlorobenzene	12.781	146	130334	9.254	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.368	119	240793	9.519	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.558	155	6135	7.478	ug/L	99
112) Hexachlorobutadiene	14.162	225	34306	6.499	ug/L	97
113) 1,2,4-Trichlorobenzene	14.188	180	77148	7.440	ug/L	98
114) Naphthalene	14.490	128	148100	8.085	ug/L	100
115) 1,2,3-Trichlorobenzene	14.653	180	65031	6.966	ug/L	97

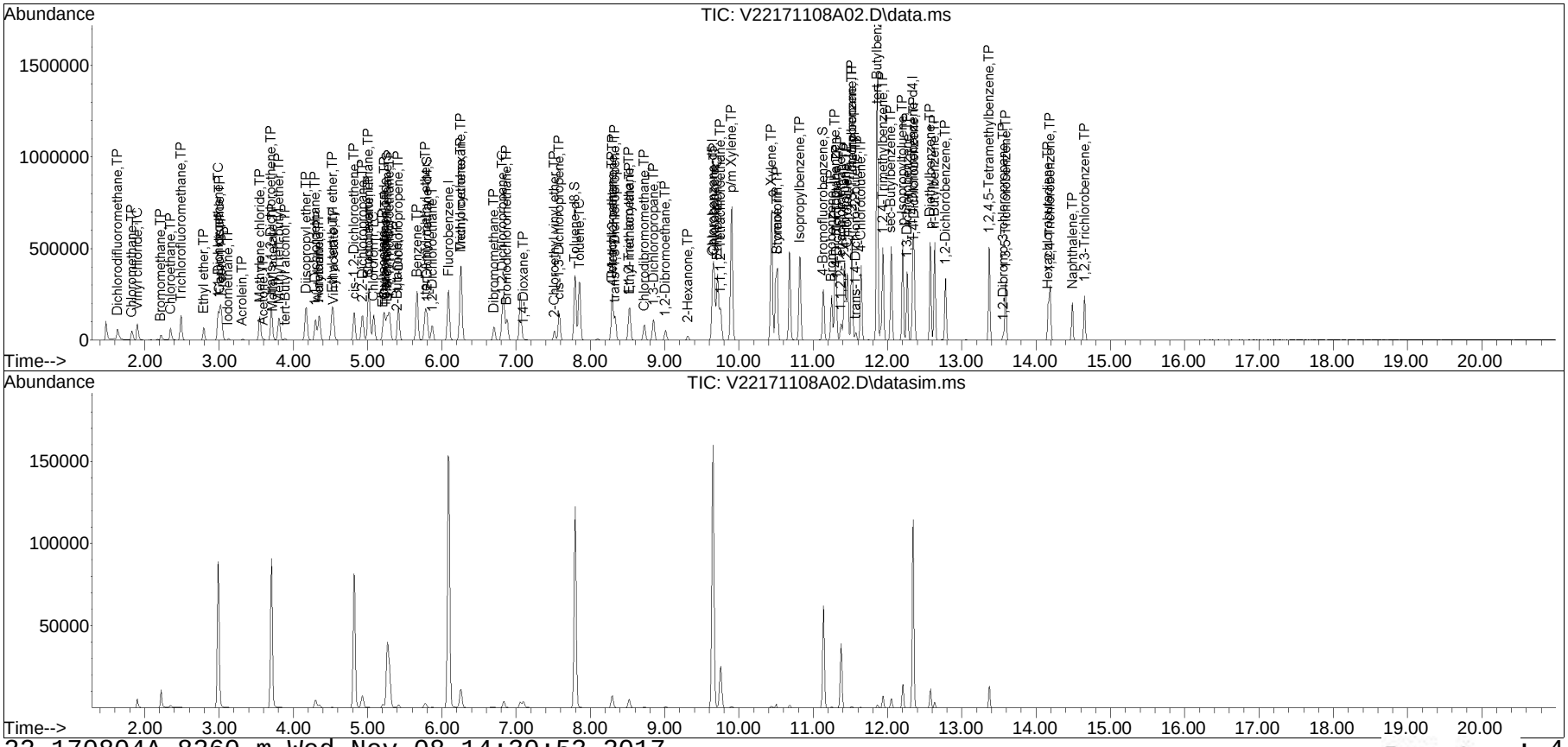
(#) = qualifier out of range (m) = manual integration (+) = signals summed

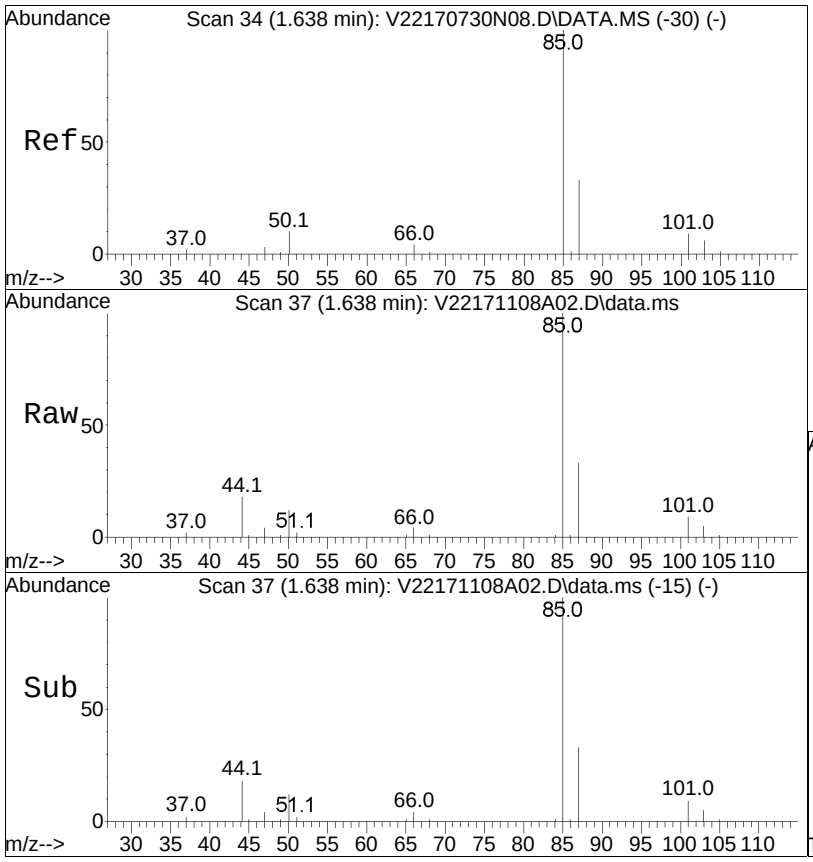
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A02.D
Acq On : 08 Nov 2017 08:07 am
Operator : VOA122:PD
Sample : WG1060967-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 08:47:09 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox71108A\V22171108A02.D•

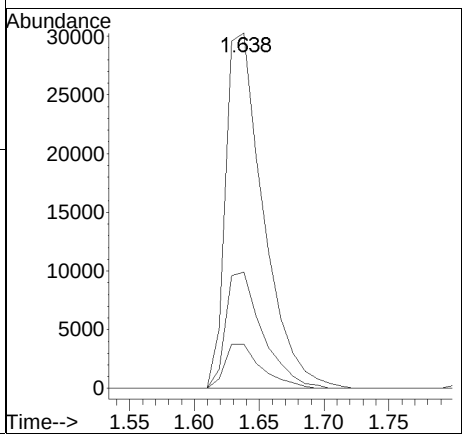


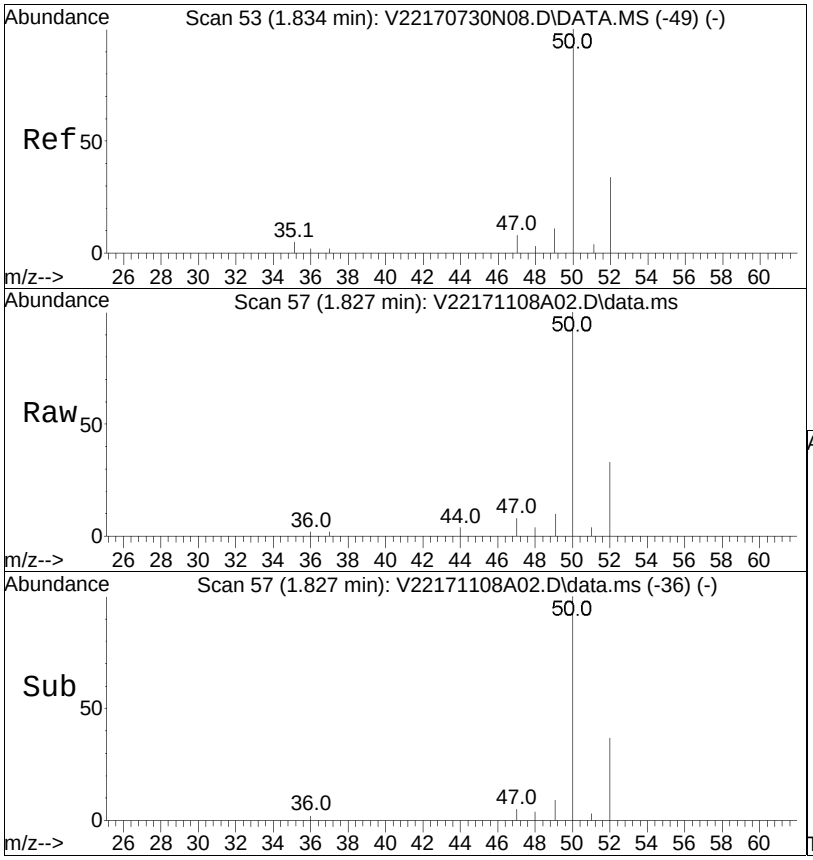


#2
Dichlorodifluoromethane
Concen: 11.42 ug/L
RT: 1.638 min Scan# 37
Delta R.T. 0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 85 Resp: 61547

Ion	Ratio	Lower	Upper
85	100		
87	32.0	20.7	42.9
50	12.2	6.8	14.2

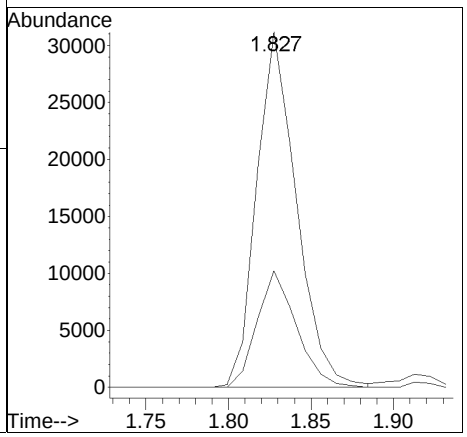


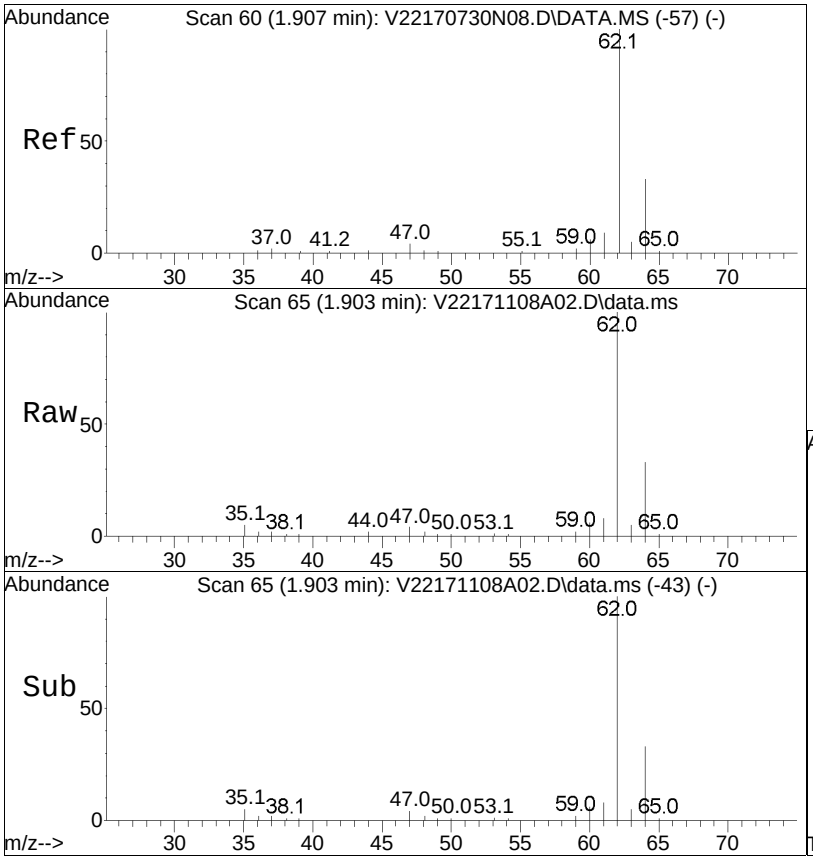


#3
Chloromethane
Concen: 8.53 ug/L
RT: 1.827 min Scan# 57
Delta R.T. 0.003 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 50 Resp: 52348

Ion	Ratio	Lower	Upper
50	100		
52	32.5	12.8	52.8

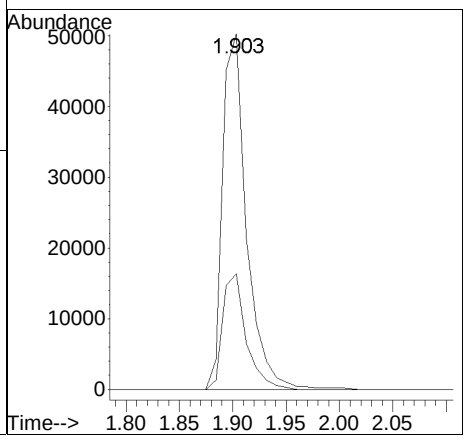


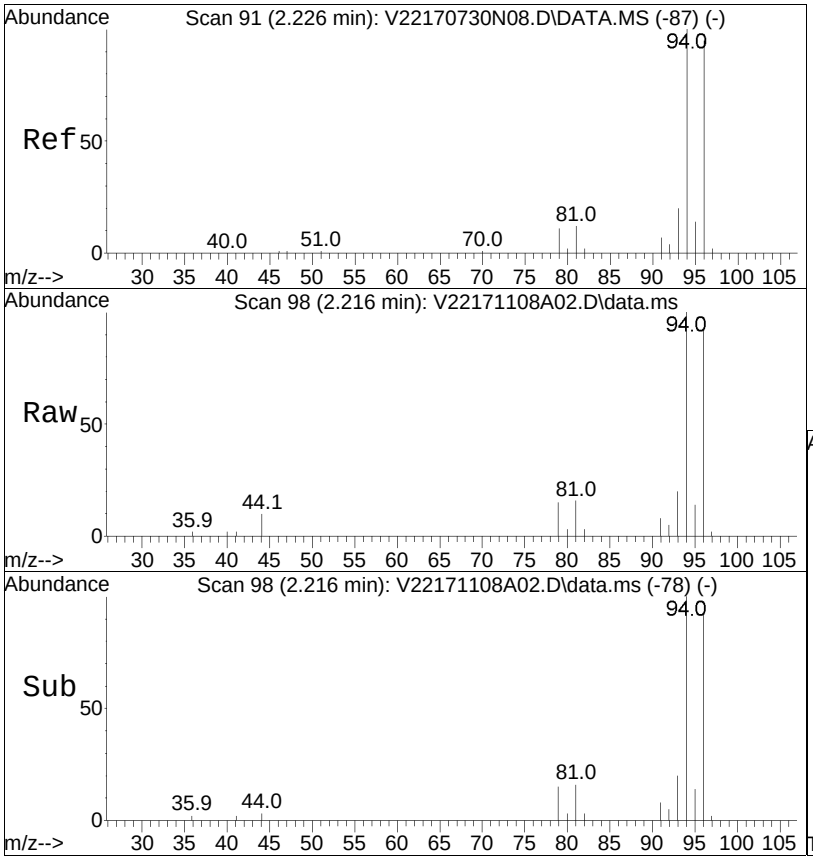


#4
Vinyl chloride
Concen: 10.23 ug/L
RT: 1.903 min Scan# 65
Delta R.T. 0.007 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 62 Resp: 78589

Ion	Ratio	Lower	Upper
62	100		
64	31.8	12.0	52.0

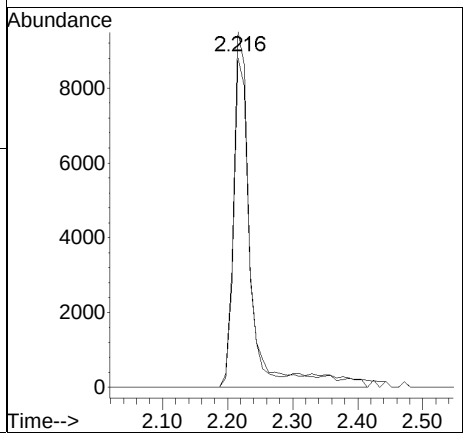


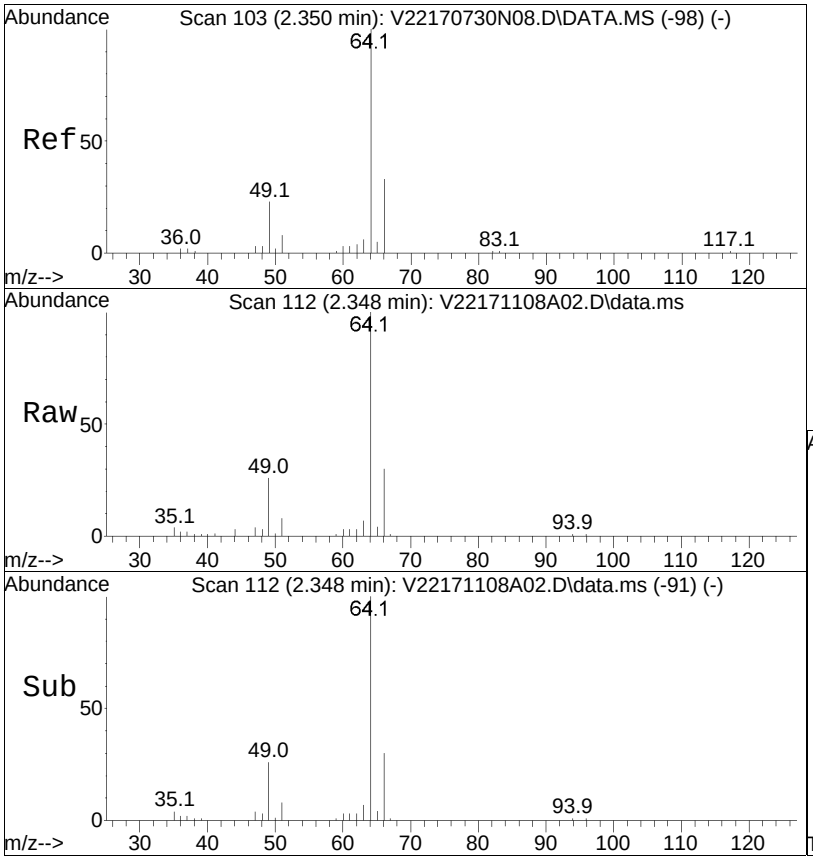


#5
Bromomethane
Concen: 3.54 ug/L M1
RT: 2.216 min Scan# 98
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 94 Resp: 17827

Ion	Ratio	Lower	Upper
94	100		
96	81.2	72.8	112.8

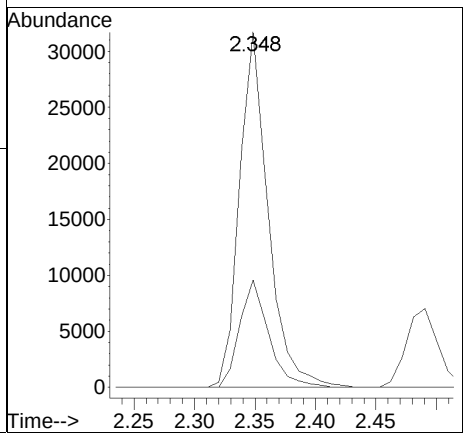


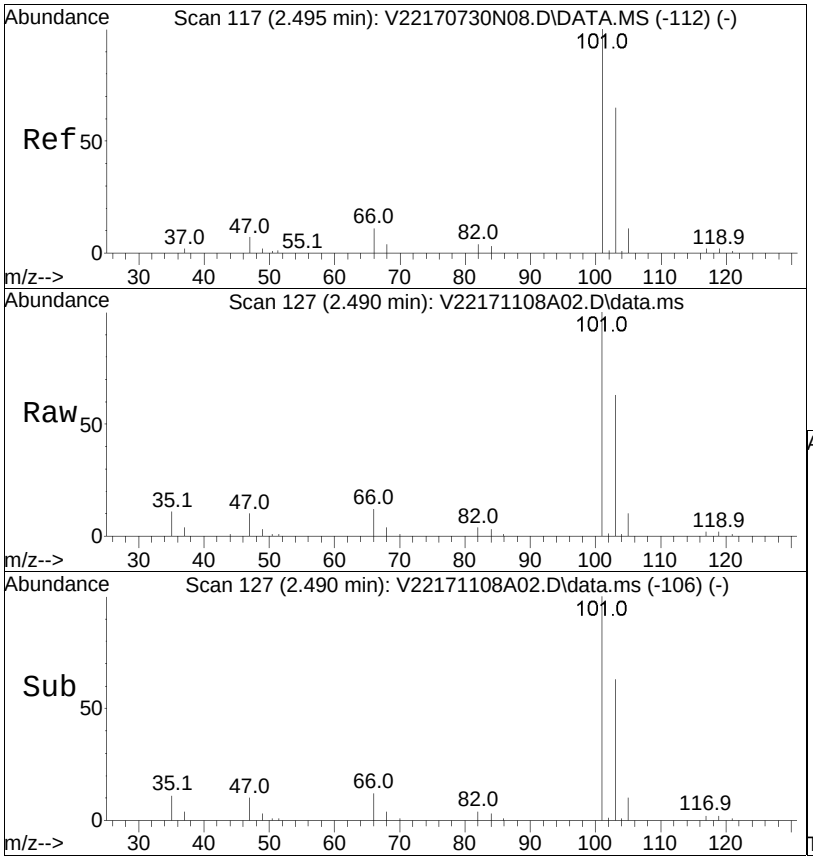


#6
Chloroethane
Concen: 11.37 ug/L
RT: 2.348 min Scan# 112
Delta R.T. -0.002 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 64 Resp: 52532

Ion	Ratio	Lower	Upper
64	100		
66	30.6	12.2	52.2

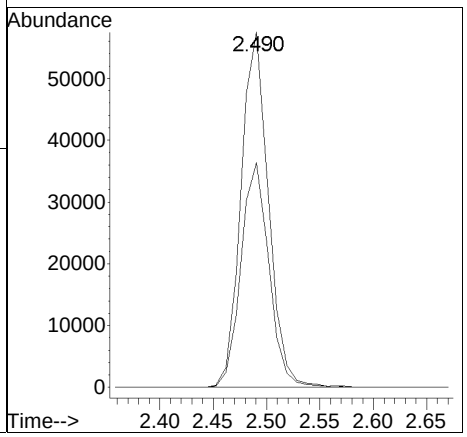


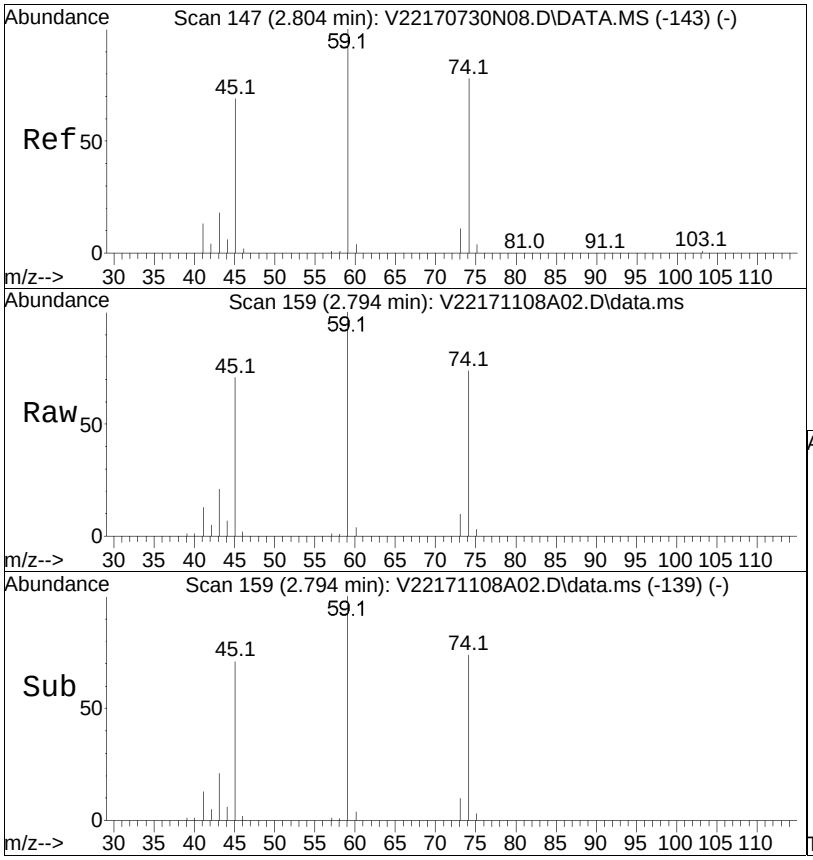


#7
Trichlorofluoromethane
Concen: 9.73 ug/L
RT: 2.490 min Scan# 127
Delta R.T. -0.005 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:101 Resp: 103001

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.6	77.4

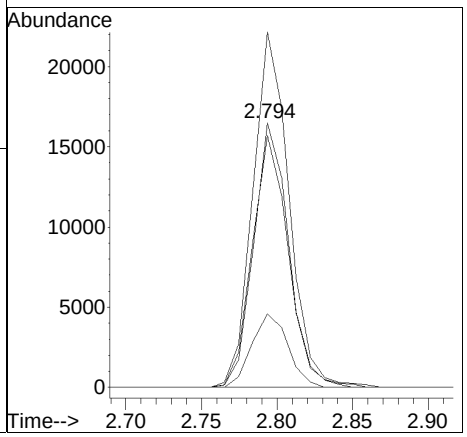


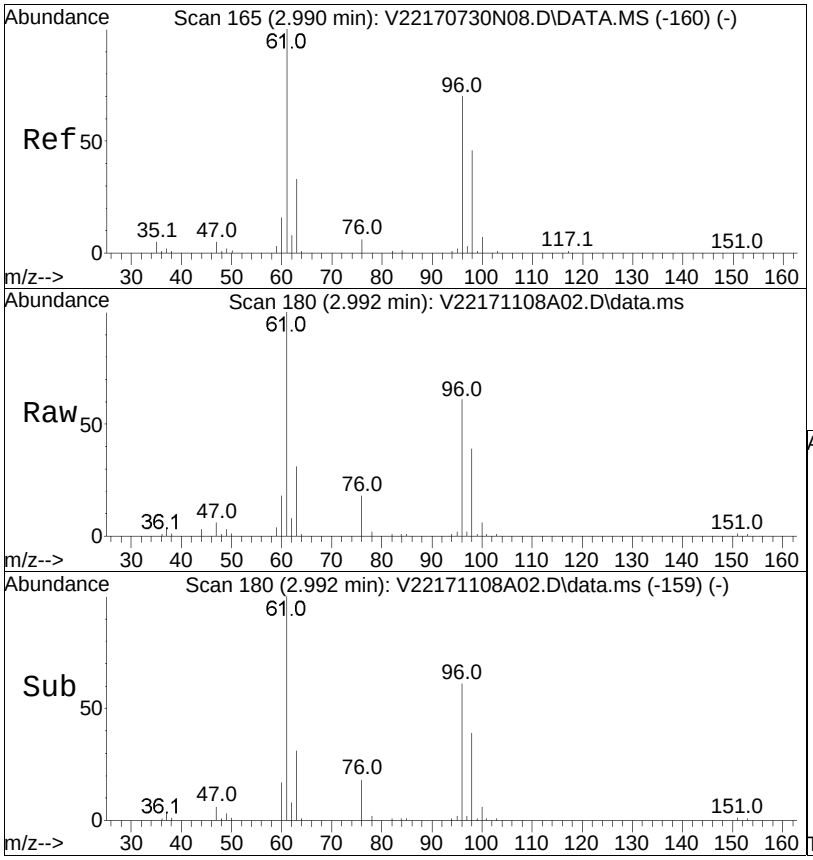


#8
Ethyl ether
Concen: 8.09 ug/L
RT: 2.794 min Scan# 159
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 74 Resp: 26572

Ion	Ratio	Lower	Upper
74	100		
59	139.1	2122.4	4408.0#
45	98.4	1435.1	2980.5#
43	28.8	407.9	847.3#

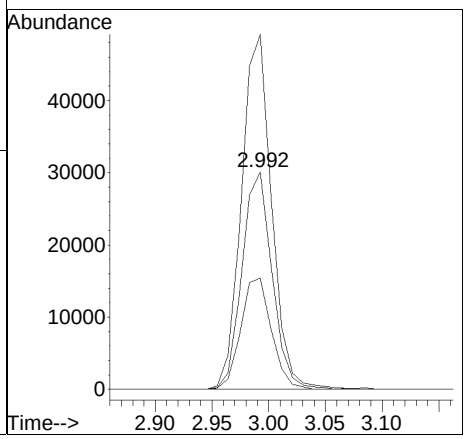


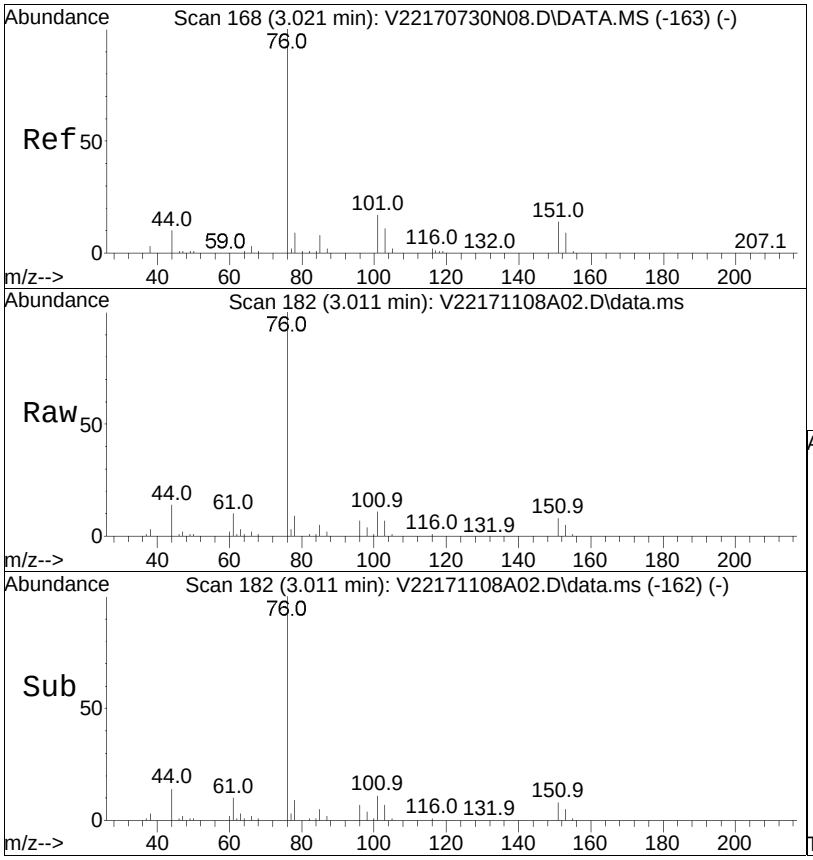


#10
1,1-Dichloroethene
Concen: 8.52 ug/L
RT: 2.992 min Scan# 180
Delta R.T. 0.002 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 96 Resp: 55675

Ion	Ratio	Lower	Upper
96	100		
61	163.4	117.0	175.4
63	52.2	37.8	56.6

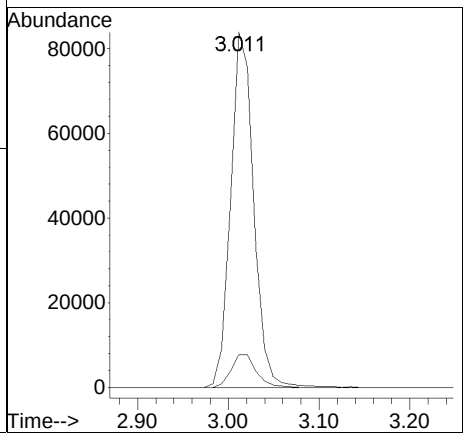


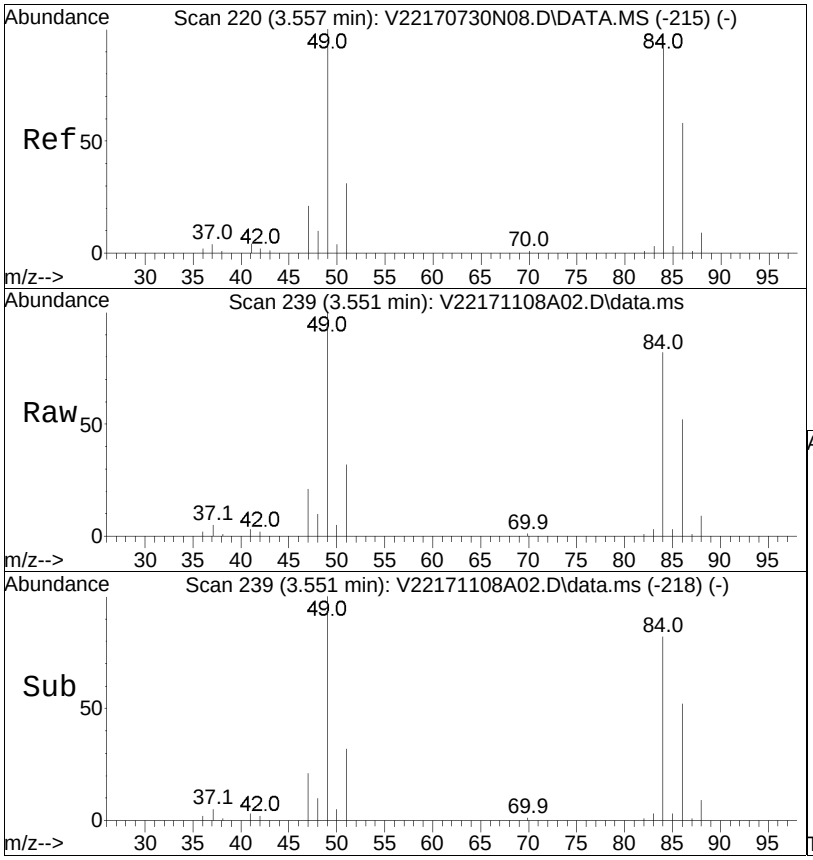


#11
Carbon disulfide
Concen: 8.79 ug/L
RT: 3.011 min Scan# 182
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 76 Resp: 147582

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.4	13.4

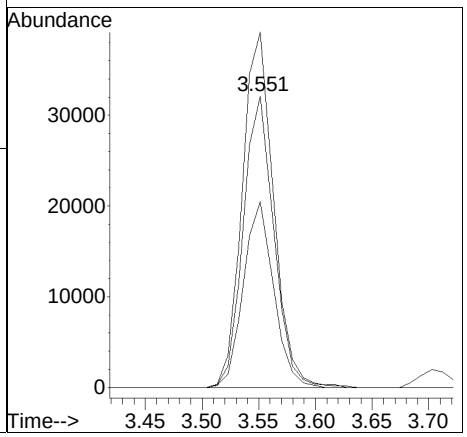


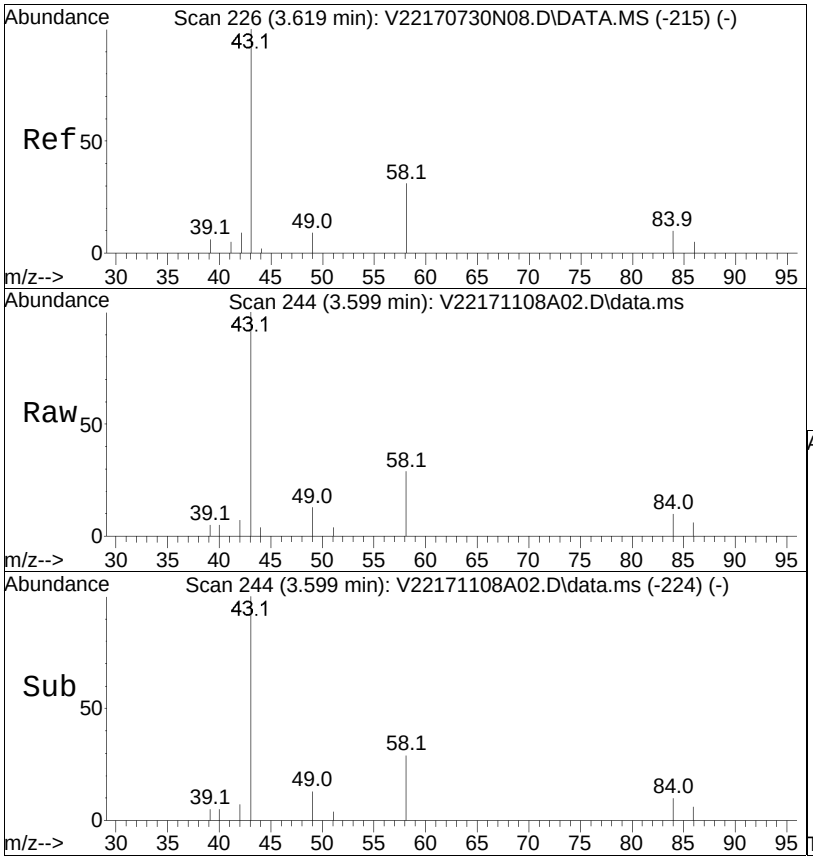


#15
Methylene chloride
Concen: 8.68 ug/L
RT: 3.551 min Scan# 239
Delta R.T. -0.006 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 84 Resp: 60431

Ion	Ratio	Lower	Upper
84	100		
86	62.9	41.5	86.3
49	124.4	68.8	143.0

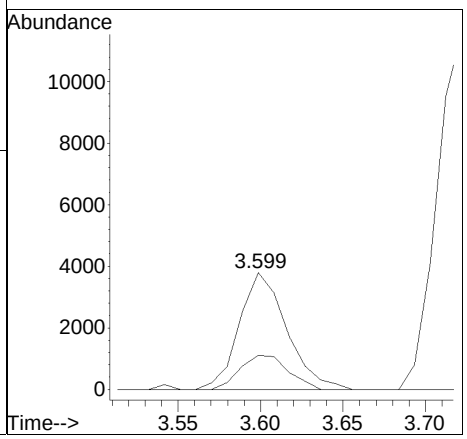


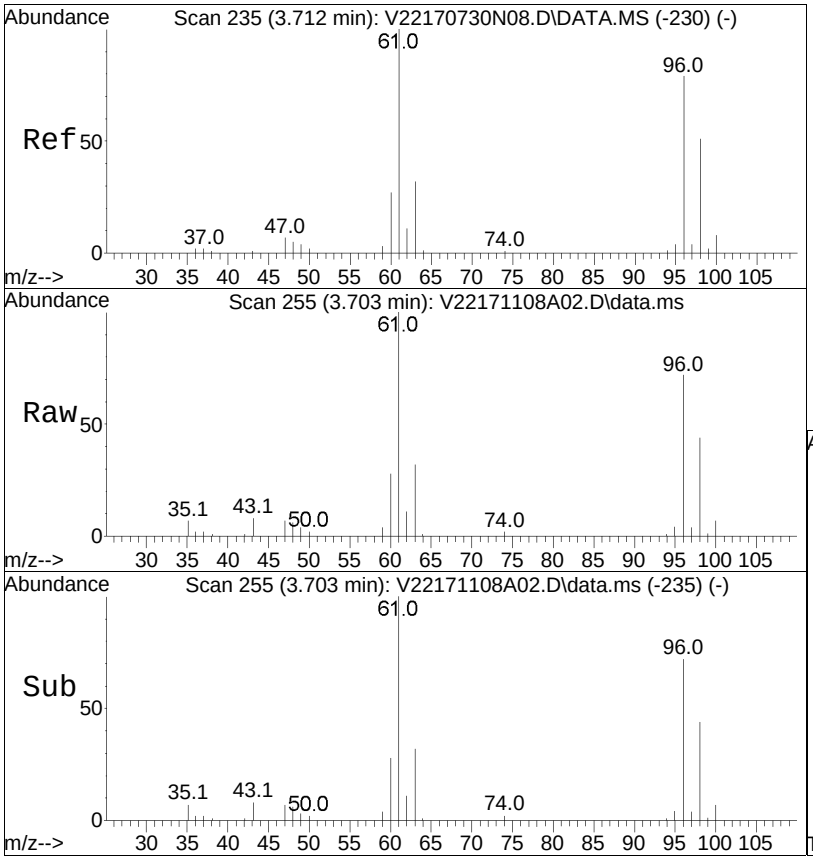


#17
Acetone
Concen: 9.03 ug/L
RT: 3.599 min Scan# 244
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 43 Resp: 7596

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.1	34.7

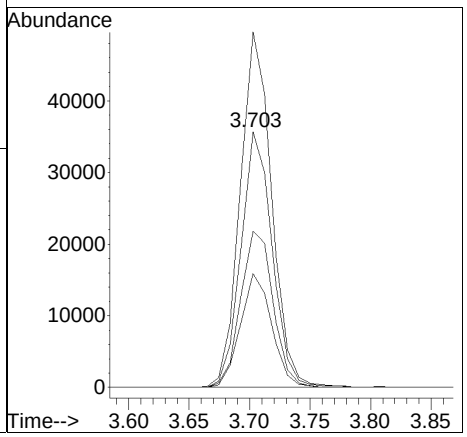


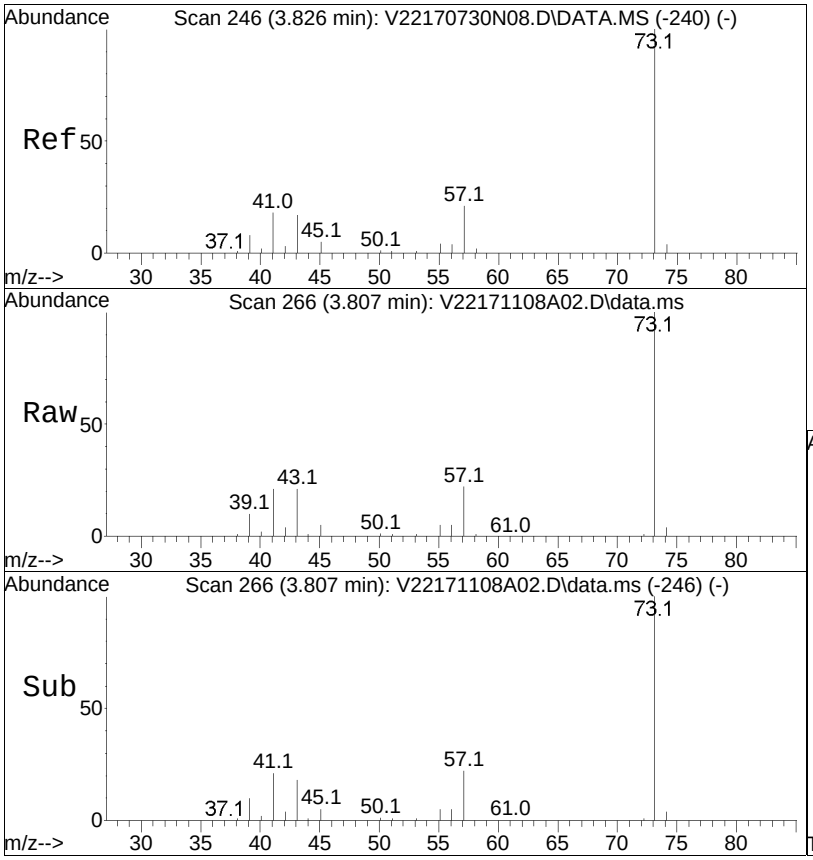


#18
trans-1,2-Dichloroethene
Concen: 8.53 ug/L
RT: 3.703 min Scan# 255
Delta R.T. -0.009 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 96 Resp: 64381

Ion	Ratio	Lower	Upper
96	100		
61	139.4	81.6	169.6
98	63.5	41.8	86.8
63	44.6	26.3	54.7

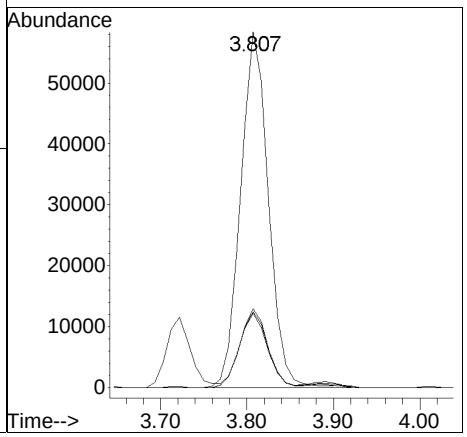


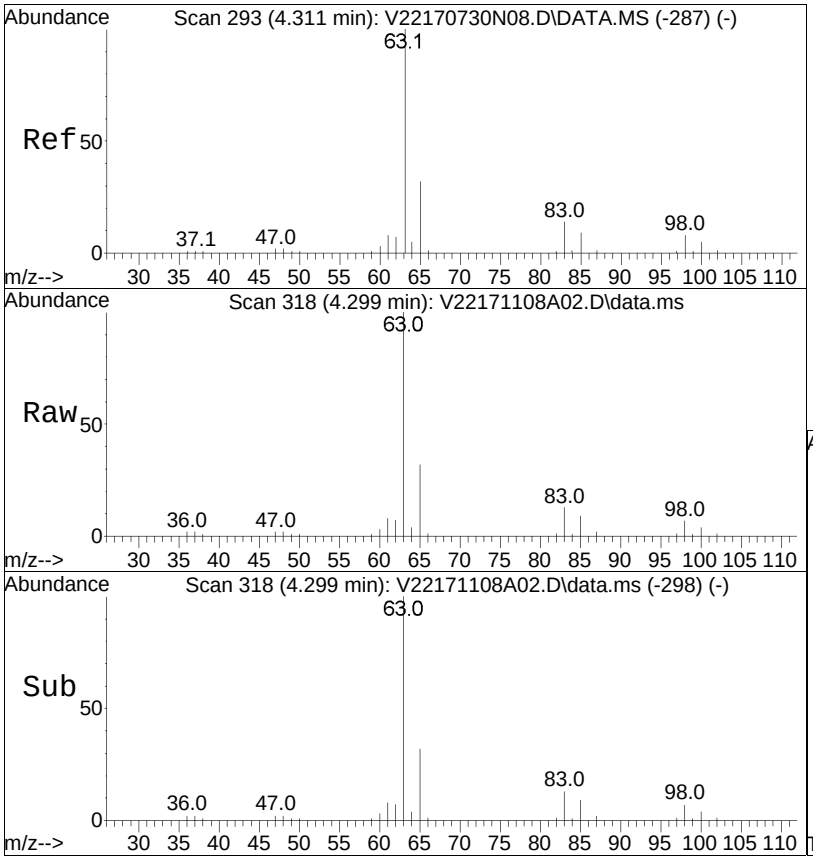


#21
Methyl tert-butyl ether
Concen: 8.09 ug/L
RT: 3.807 min Scan# 266
Delta R.T. -0.008 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 73 Resp: 130559

Ion	Ratio	Lower	Upper
73	100		
57	22.1	13.6	28.2
43	21.9	12.7	26.5
41	21.1	11.4	23.8

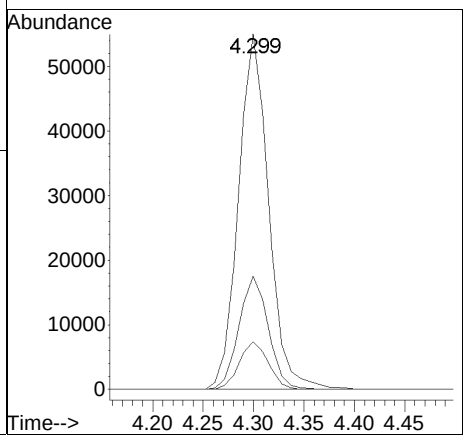


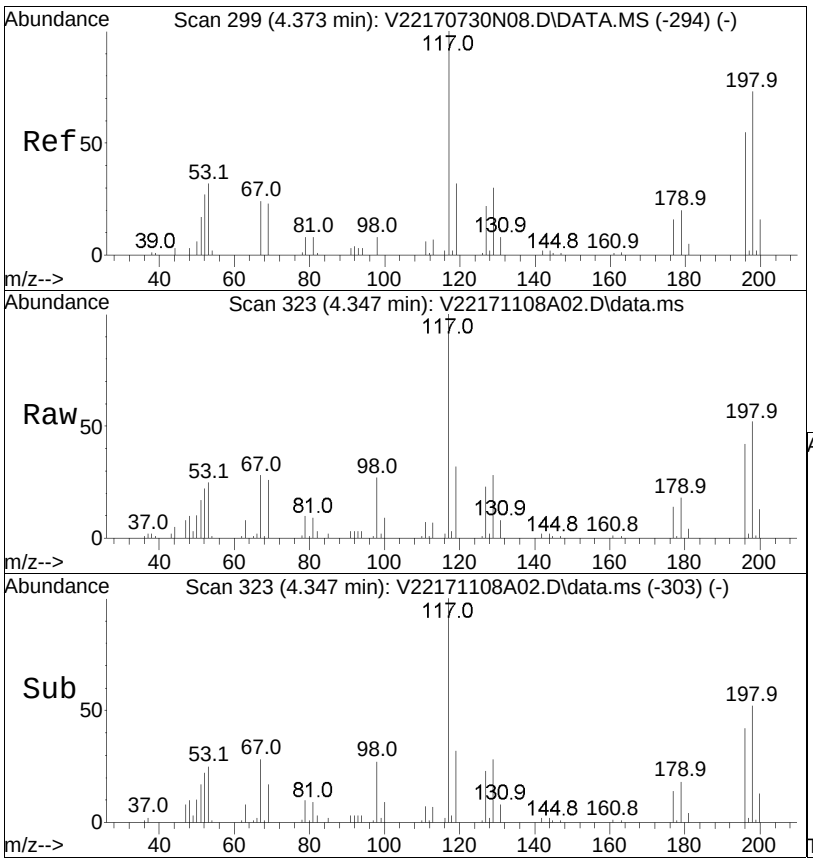


#25
1,1-Dichloroethane
Concen: 9.59 ug/L
RT: 4.299 min Scan# 318
Delta R.T. -0.012 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 63 Resp: 114501

Ion	Ratio	Lower	Upper
63	100		
65	31.0	11.9	51.9
83	12.9	0.0	34.2

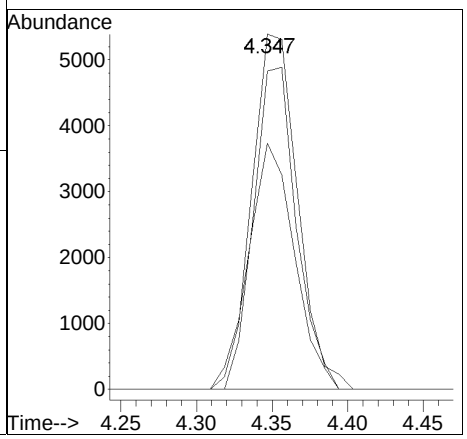


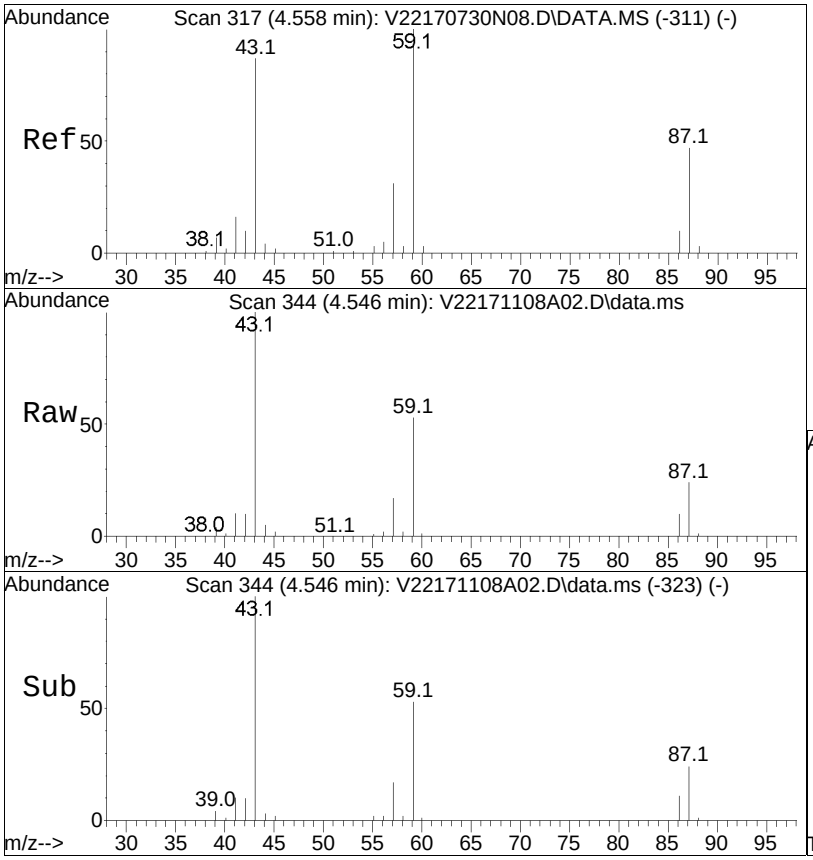


#27
Acrylonitrile
Concen: 9.56 ug/L
RT: 4.347 min Scan# 323
Delta R.T. -0.015 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 53 Resp: 11407

Ion	Ratio	Lower	Upper
53	100		
52	84.6	63.8	95.8
51	69.3	50.2	75.4

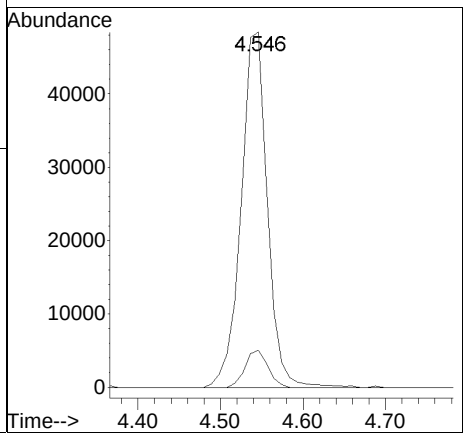


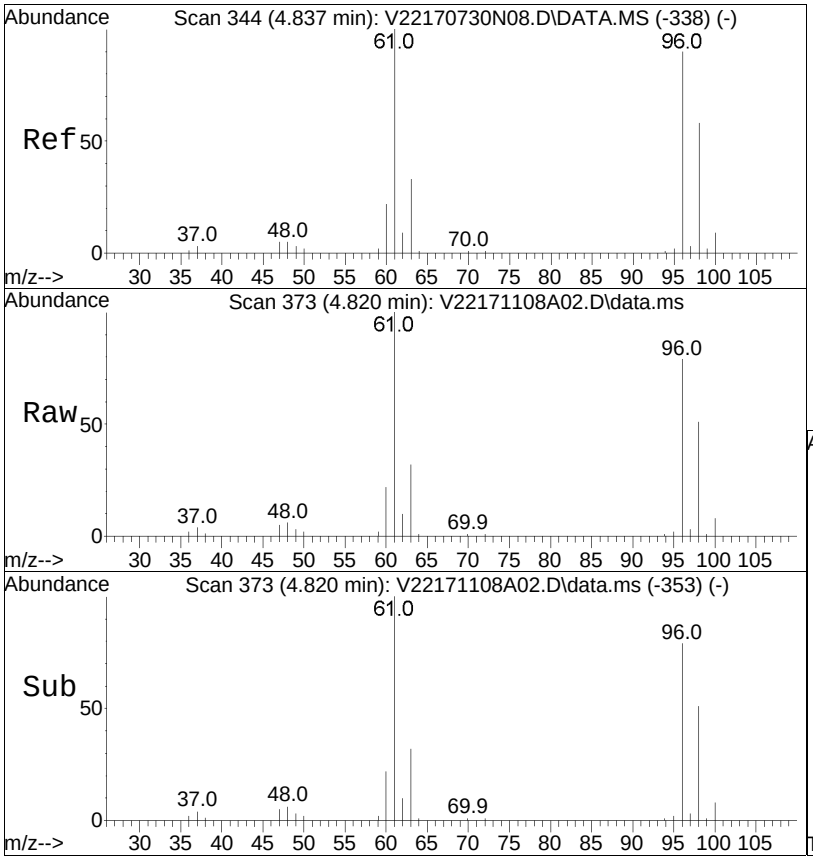


#29
Vinyl acetate
Concen: 9.78 ug/L
RT: 4.546 min Scan# 344
Delta R.T. -0.002 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 43 Resp: 107422

Ion	Ratio	Lower	Upper
43	100		
86	9.1	8.9	13.3

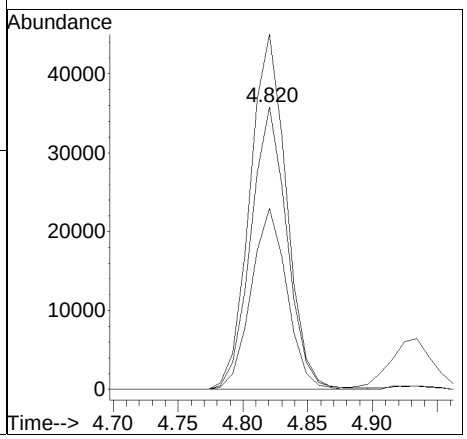


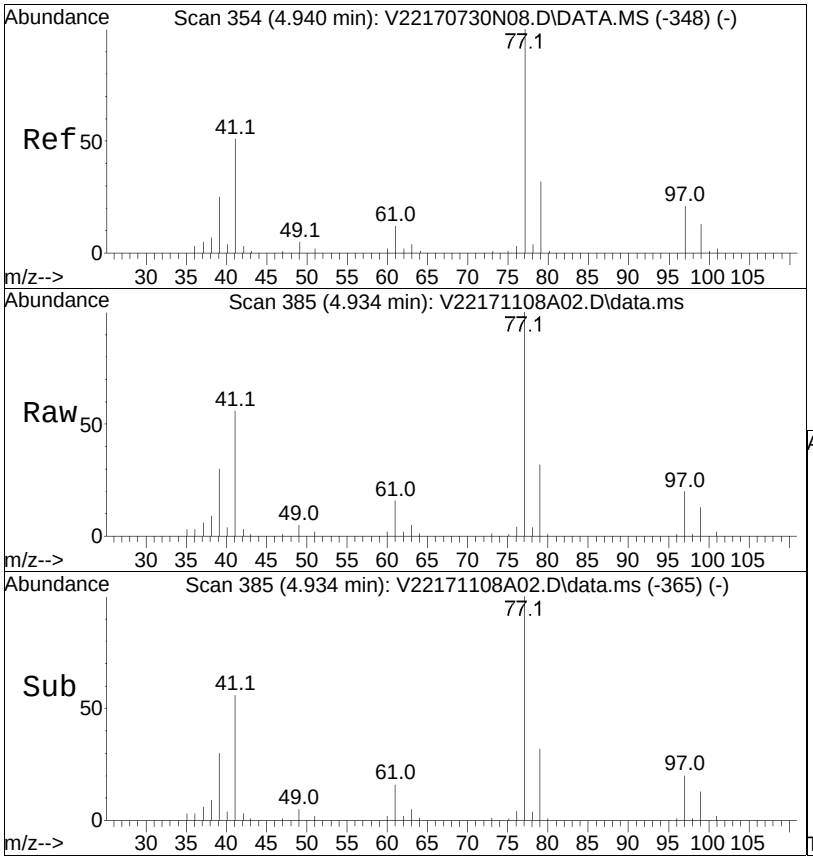


#30
cis-1,2-Dichloroethene
Concen: 8.57 ug/L
RT: 4.820 min Scan# 373
Delta R.T. -0.007 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 96 Resp: 69416

Ion	Ratio	Lower	Upper
96	100		
61	127.2	90.3	135.5
98	63.4	50.8	76.2

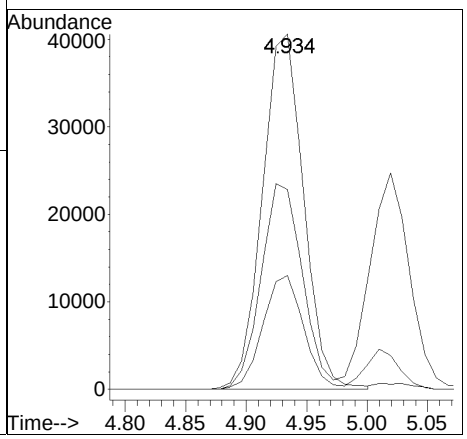


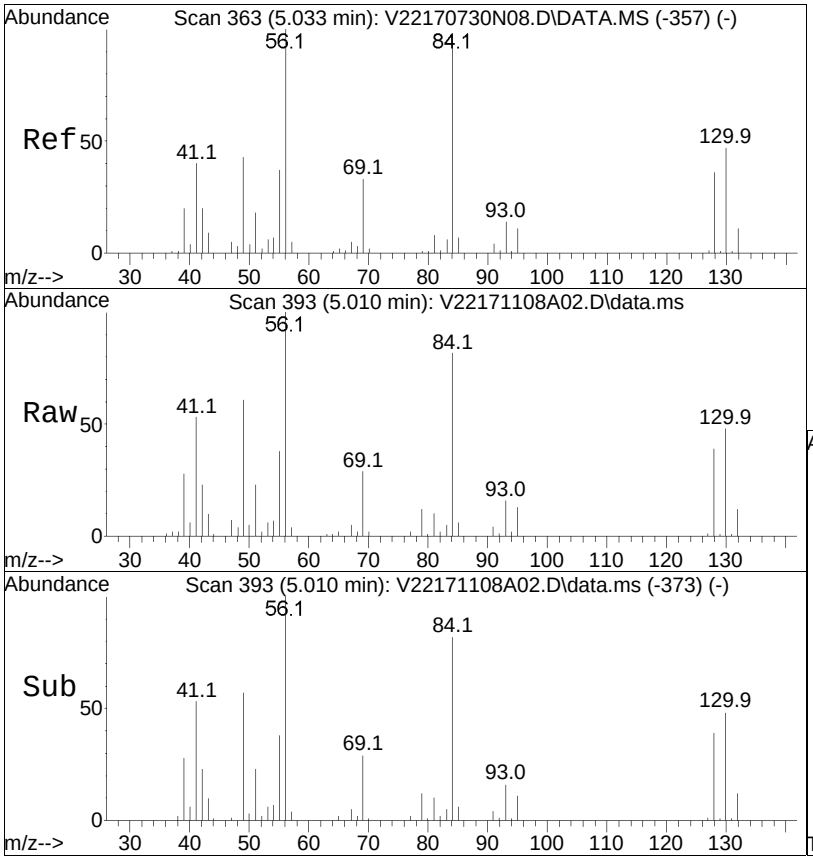


#31
2,2-Dichloropropane
Concen: 9.34 ug/L
RT: 4.934 min Scan# 385
Delta R.T. -0.006 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 77 Resp: 96452

Ion	Ratio	Lower	Upper
77	100		
41	58.1	32.3	67.1
79	31.8	21.1	43.7

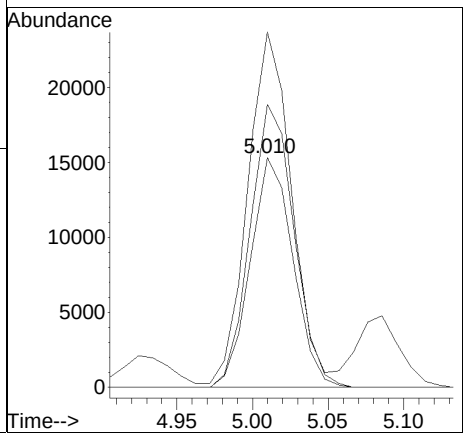


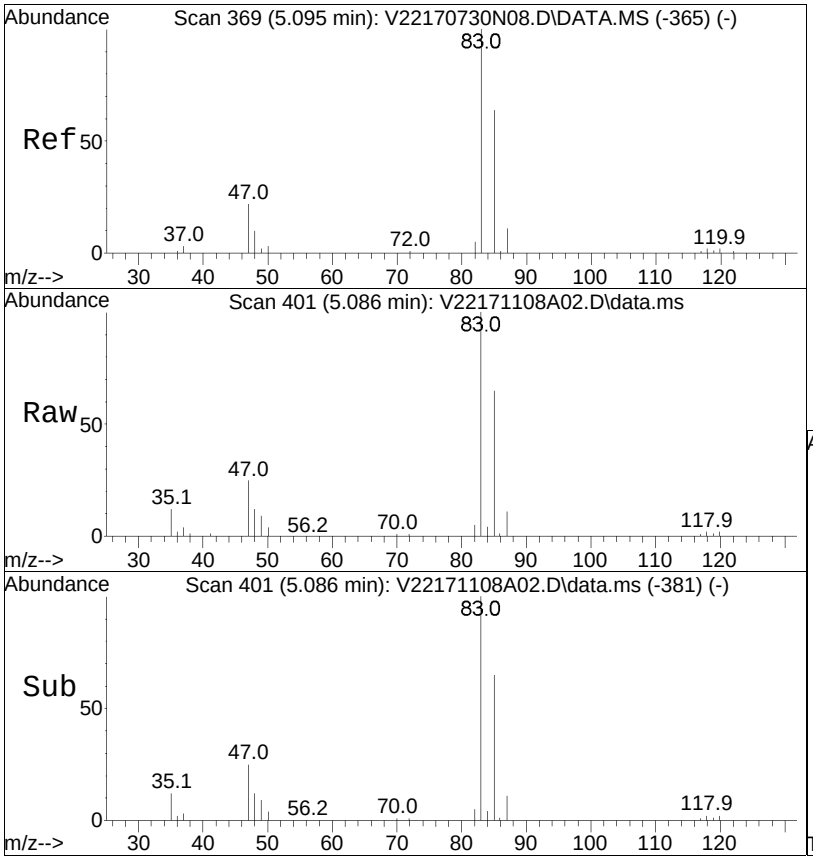


#32
Bromochloromethane
Concen: 8.85 ug/L
RT: 5.010 min Scan# 393
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:128 Resp: 30168

Ion	Ratio	Lower	Upper
128	100		
49	158.0	104.4	156.6#
130	126.7	103.9	155.9

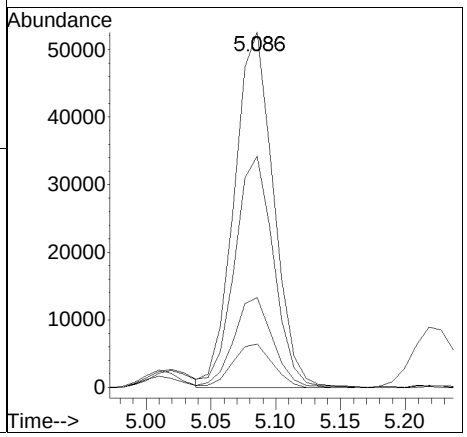


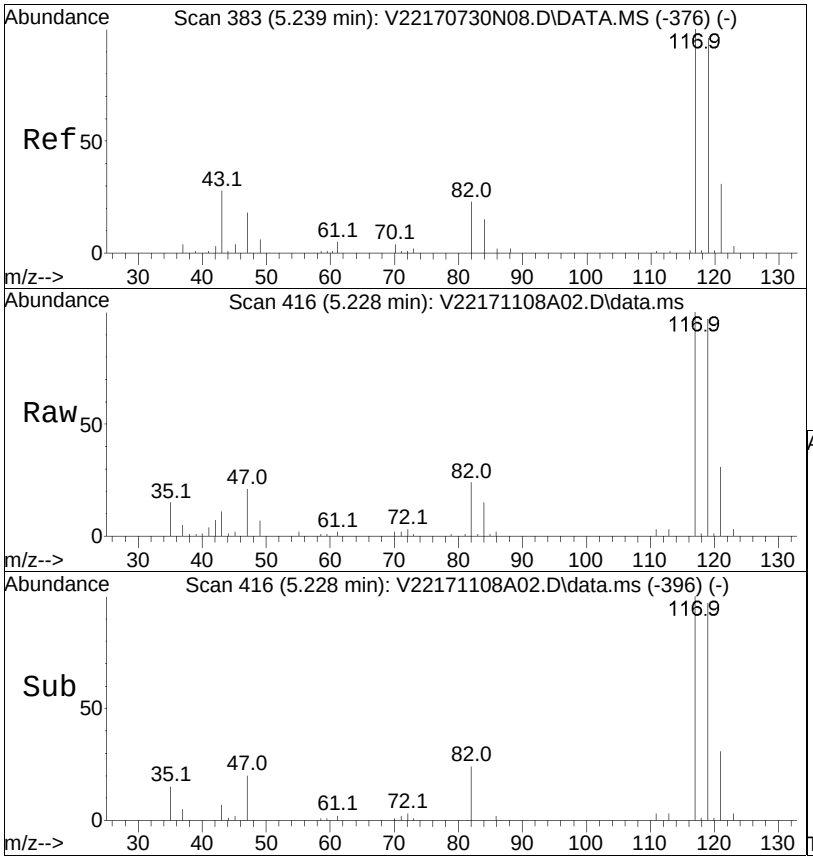


#34
Chloroform
Concen: 8.94 ug/L
RT: 5.086 min Scan# 401
Delta R.T. -0.009 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 83 Resp: 110849

Ion	Ratio	Lower	Upper
83	100		
85	64.8	42.4	88.2
47	25.1	14.0	29.0
48	12.4	6.9	14.3

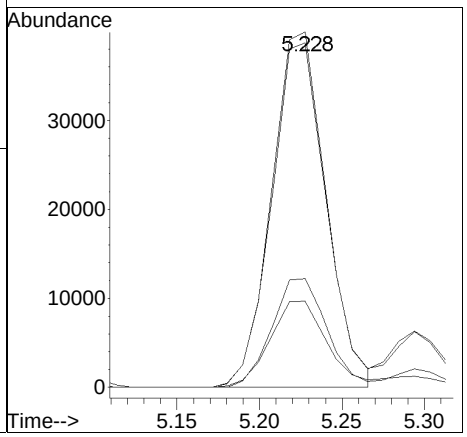


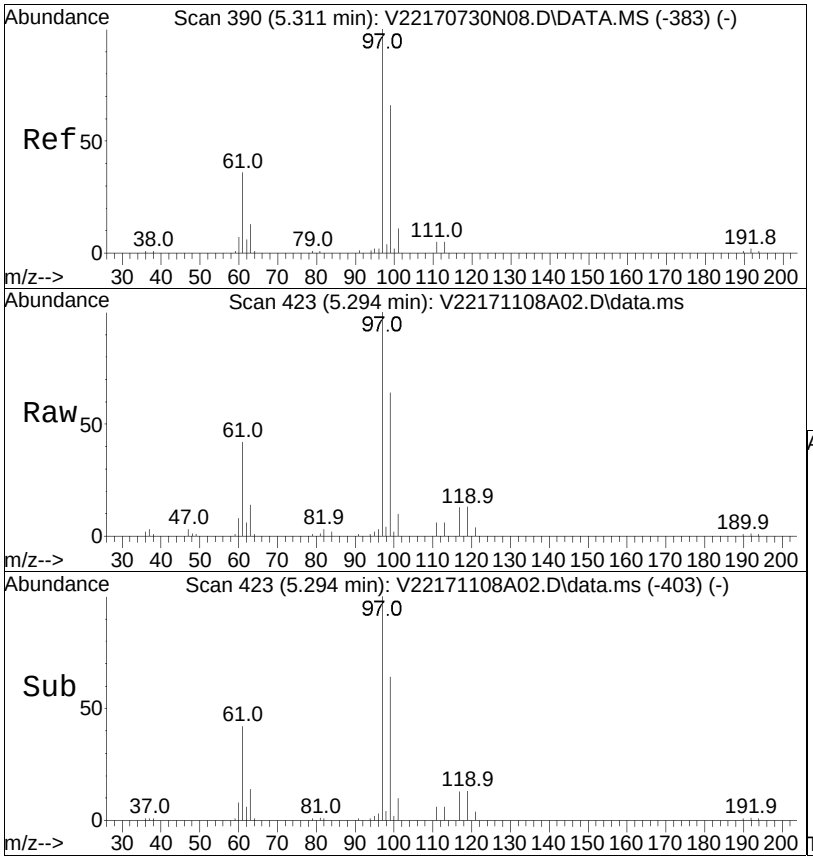


#36
Carbon tetrachloride
Concen: 9.36 ug/L
RT: 5.228 min Scan# 416
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:117 Resp: 91614

Ion	Ratio	Lower	Upper
117	100		
119	97.4	62.1	129.1
121	31.0	20.3	42.3
82	25.6	15.4	32.0

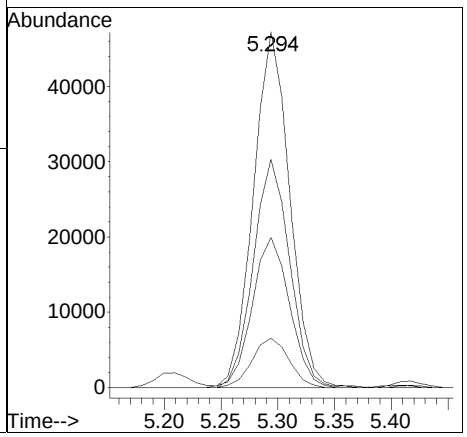


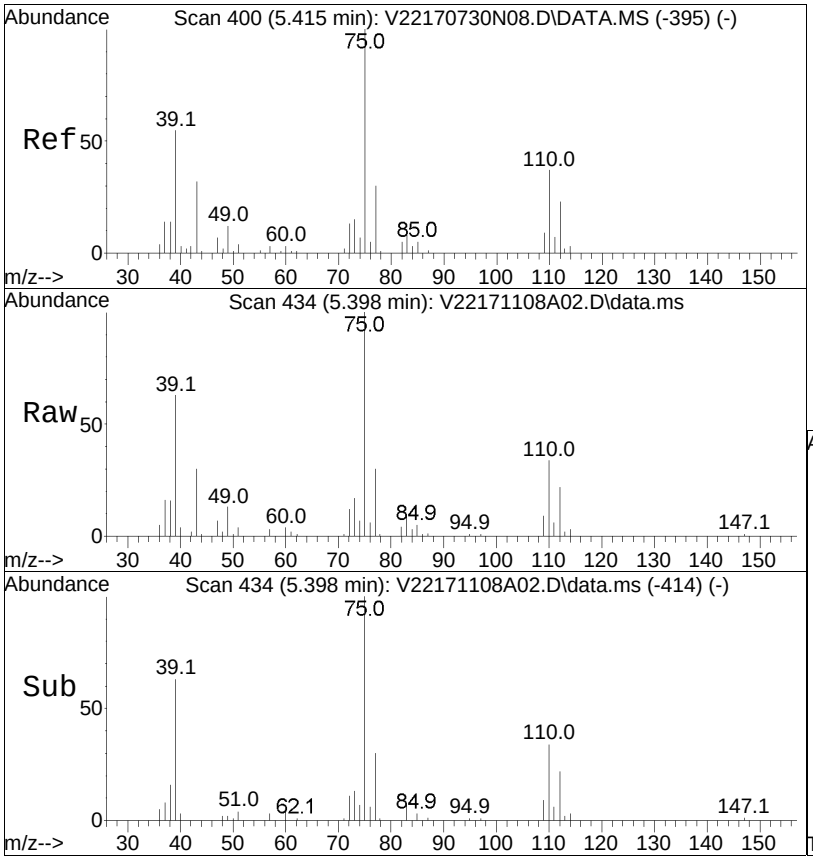


#39
1,1,1-Trichloroethane
Concen: 8.94 ug/L
RT: 5.294 min Scan# 423
Delta R.T. -0.007 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 97 Resp: 105411

Ion	Ratio	Lower	Upper
97	100		
99	64.1	42.4	88.0
61	43.2	26.0	54.0
63	14.0	8.3	17.3

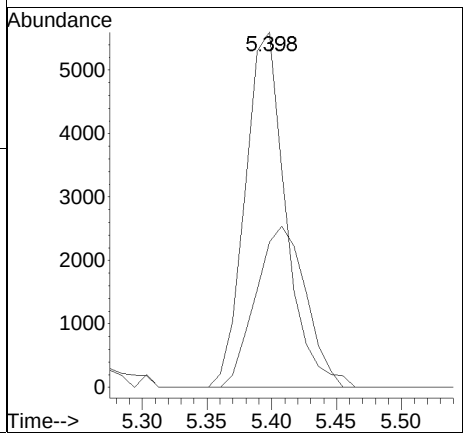


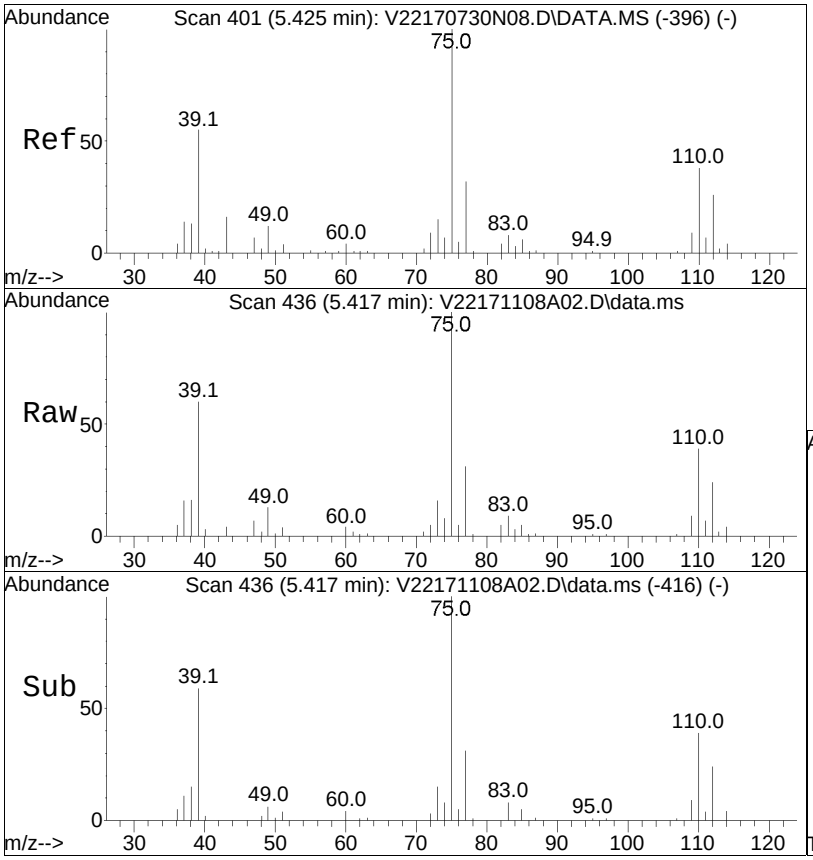


#41
2-Butanone
Concen: 9.95 ug/L
RT: 5.398 min Scan# 434
Delta R.T. -0.006 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 43 Resp: 12234

Ion	Ratio	Lower	Upper
43	100		
72	55.9	45.8	68.8

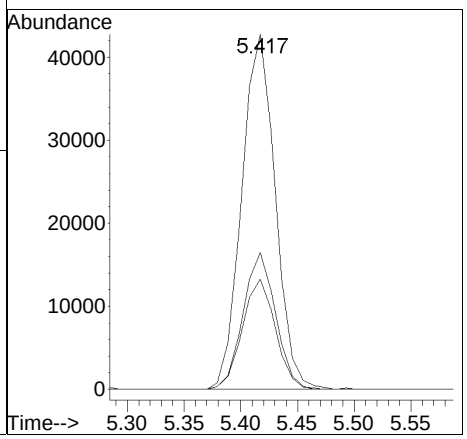


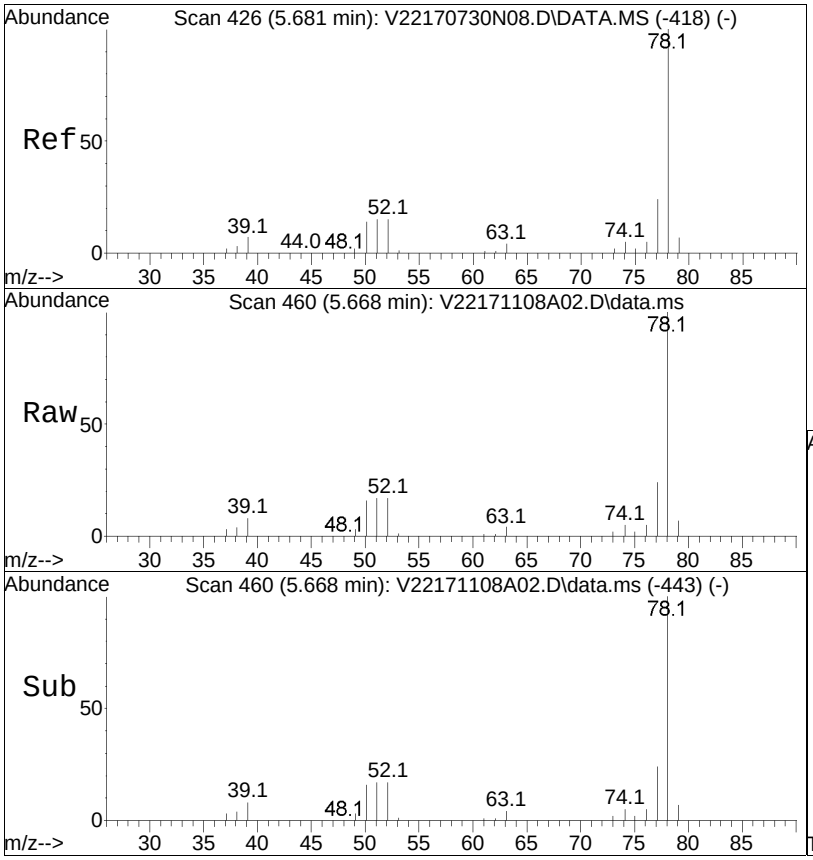


#42
1,1-Dichloropropene
Concen: 9.03 ug/L
RT: 5.417 min Scan# 436
Delta R.T. -0.008 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 75 Resp: 87874

Ion	Ratio	Lower	Upper
75	100		
110	37.3	25.4	52.8
77	30.7	20.3	42.1

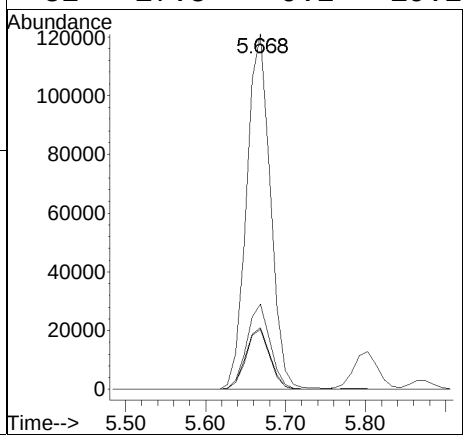


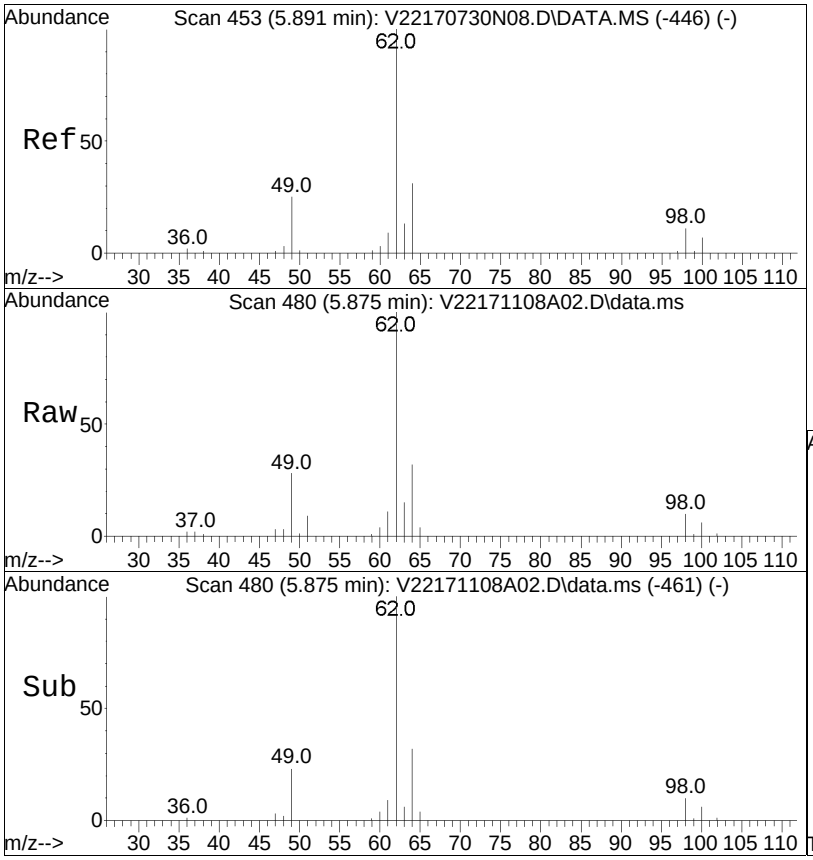


#44
Benzene
Concen: 9.46 ug/L
RT: 5.668 min Scan# 460
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 78 Resp: 275443

Ion	Ratio	Lower	Upper
78	100		
77	24.6	15.4	32.0
51	18.5	9.8	20.4
52	17.5	9.2	19.2

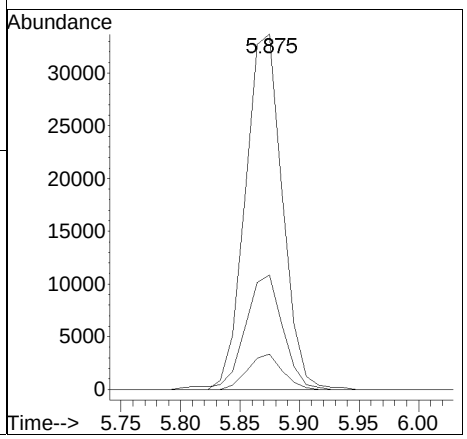


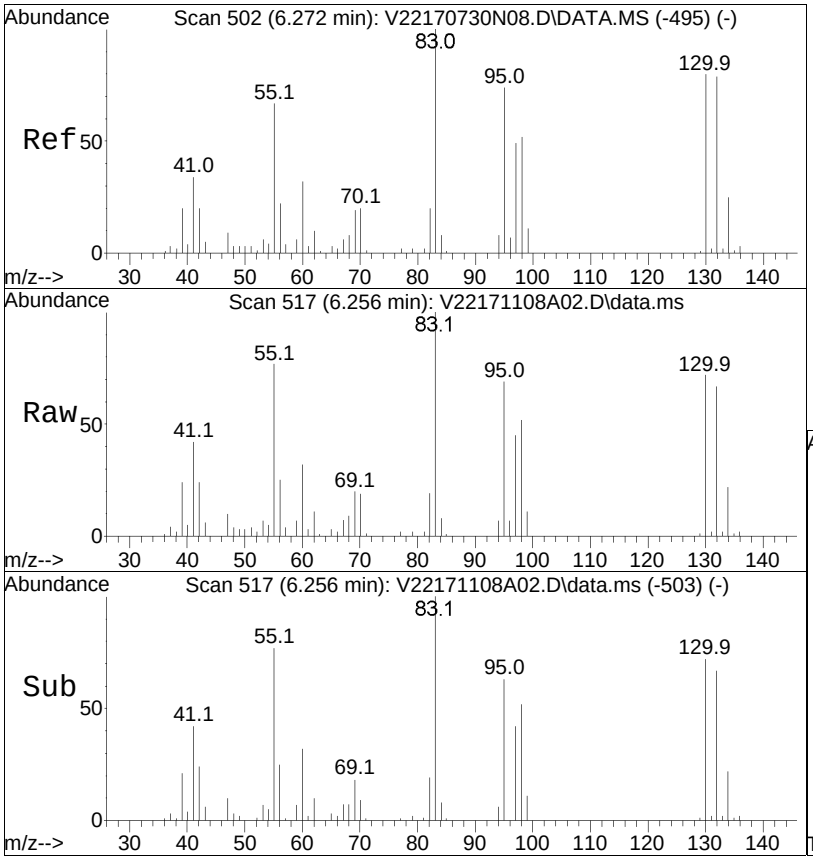


#47
1,2-Dichloroethane
Concen: 9.65 ug/L
RT: 5.875 min Scan# 480
Delta R.T. -0.008 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 62 Resp: 72914

Ion	Ratio	Lower	Upper
62	100		
64	32.9	12.3	52.3
98	9.3	0.0	30.3

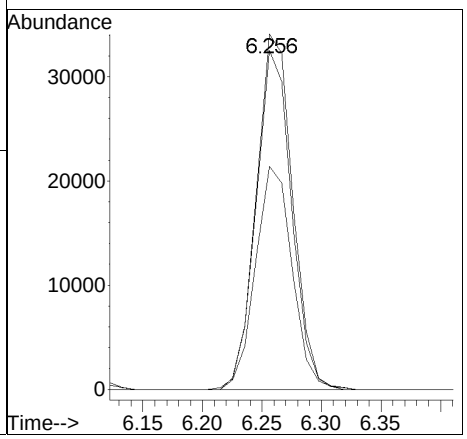


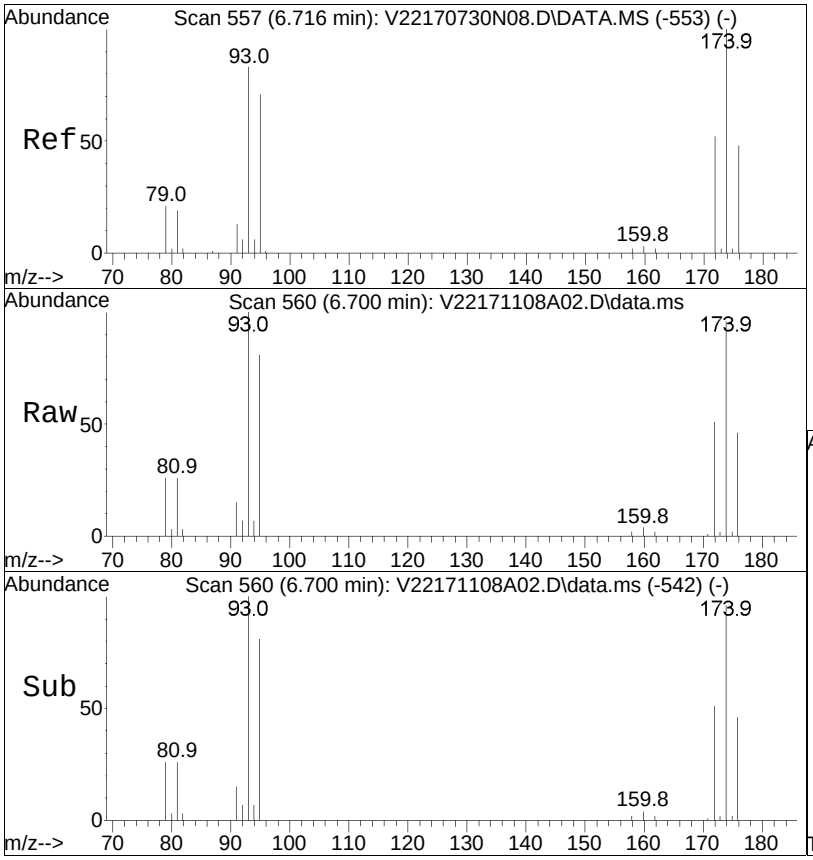


#51
Trichloroethene
Concen: 8.98 ug/L
RT: 6.256 min Scan# 517
Delta R.T. -0.016 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 95 Resp: 67501

Ion	Ratio	Lower	Upper
95	100		
97	67.7	55.0	82.4
130	107.5	89.2	133.8

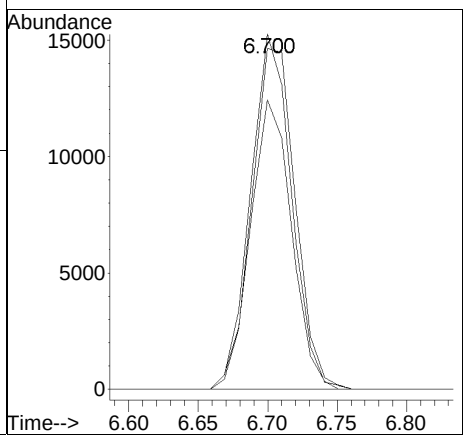


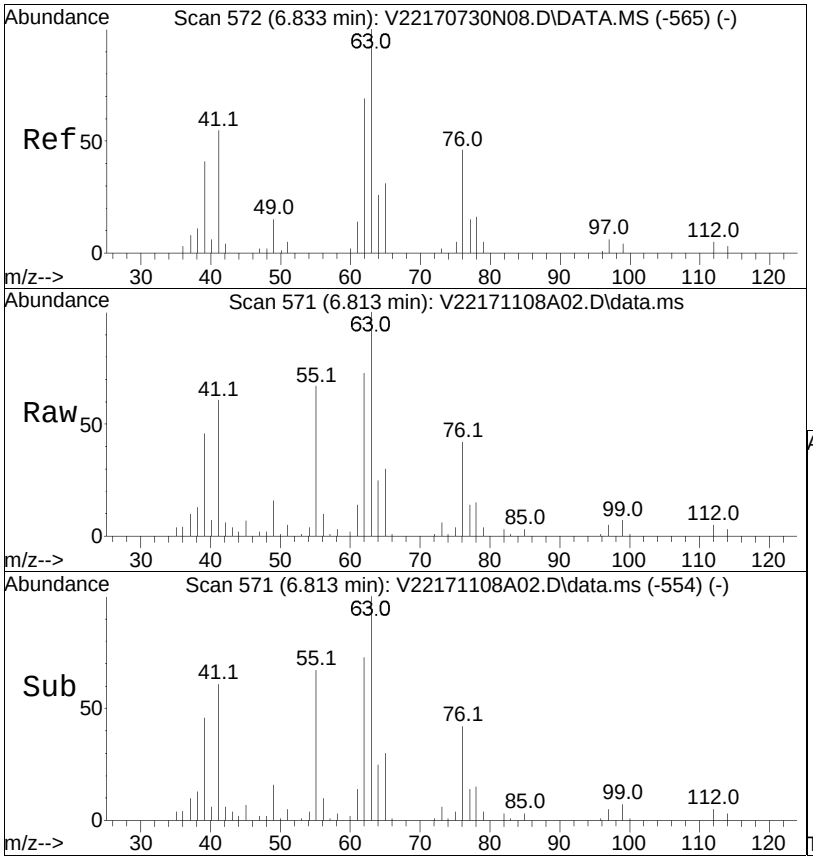


#53
Dibromomethane
Concen: 11.19 ug/L
RT: 6.700 min Scan# 560
Delta R.T. -0.016 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 93 Resp: 31352

Ion	Ratio	Lower	Upper
93	100		
95	82.0	68.0	102.0
174	101.9	106.1	159.1#

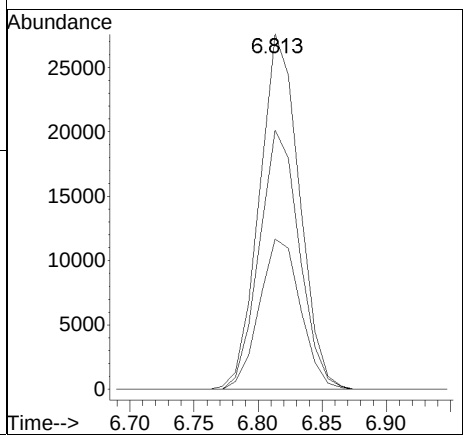


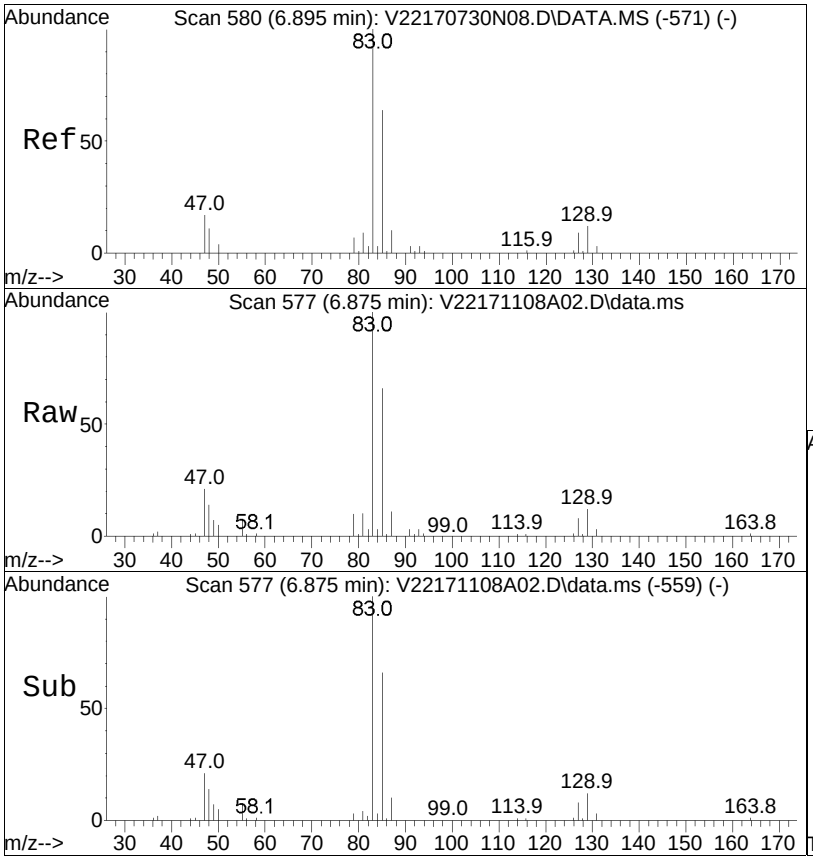


#54
1,2-Dichloropropane
Concen: 9.50 ug/L
RT: 6.813 min Scan# 571
Delta R.T. -0.020 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 63 Resp: 60006

Ion	Ratio	Lower	Upper
63	100		
62	72.9	56.9	85.3
76	43.5	35.8	53.8

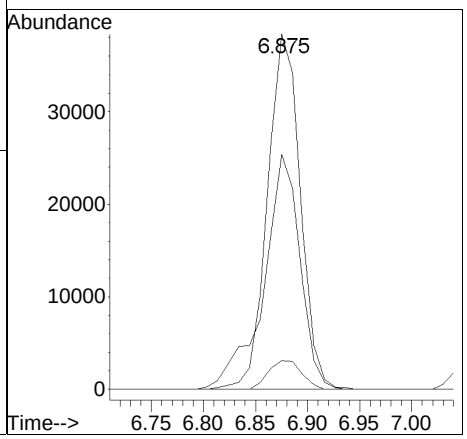


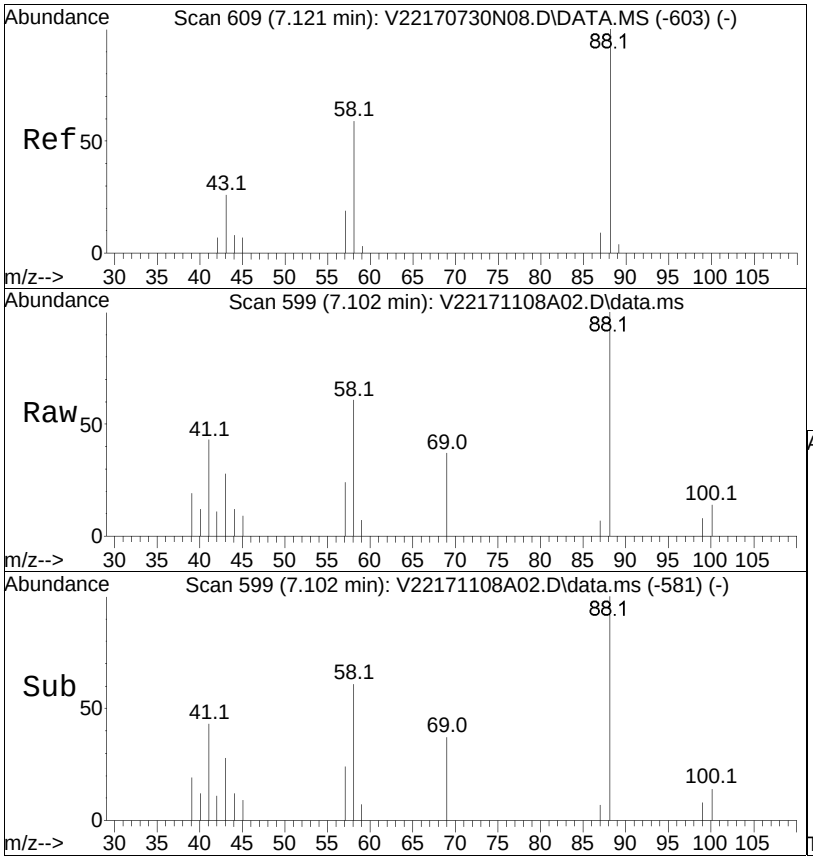


#57
Bromodichloromethane
Concen: 8.93 ug/L
RT: 6.875 min Scan# 577
Delta R.T. -0.012 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 83 Resp: 84182

Ion	Ratio	Lower	Upper
83	100		
85	73.4	51.6	77.4
127	8.3	7.4	11.0

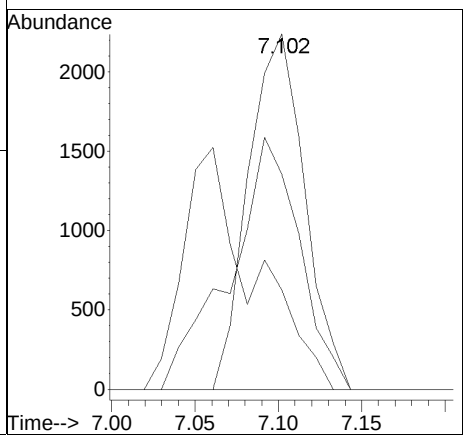


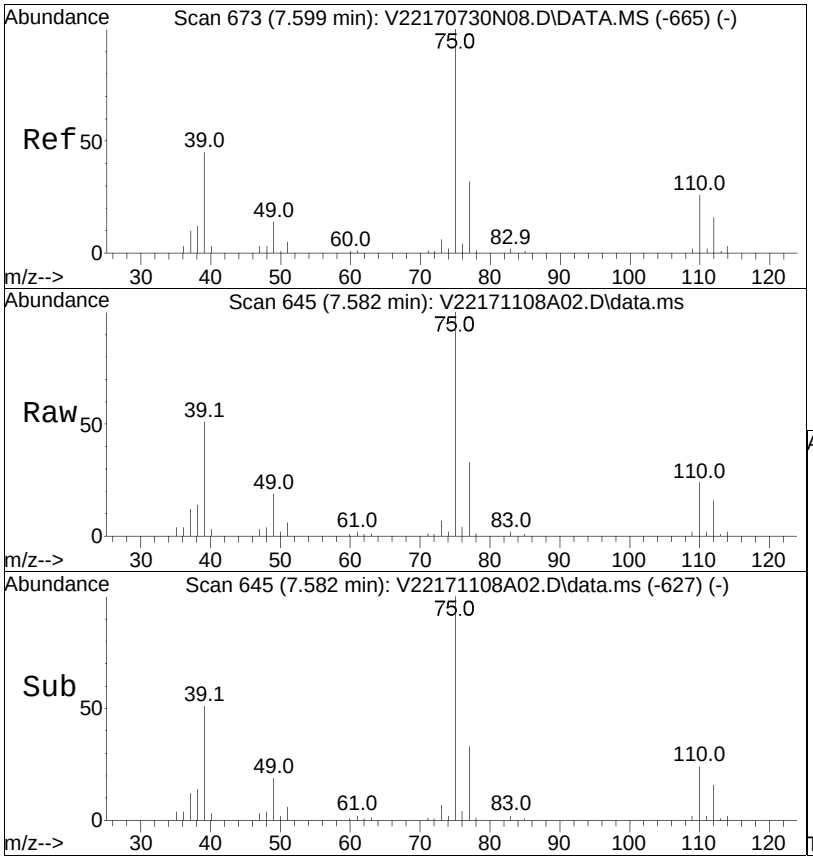


#60
1,4-Dioxane
Concen: 463.83 ug/L
RT: 7.102 min Scan# 599
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 88 Resp: 5264

Ion	Ratio	Lower	Upper
88	100		
58	87.7	43.3	64.9#
43	84.7	15.1	22.7#

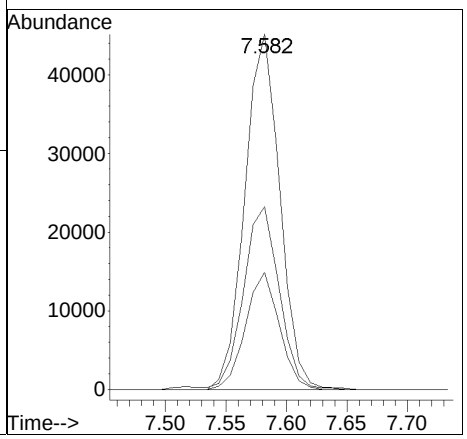


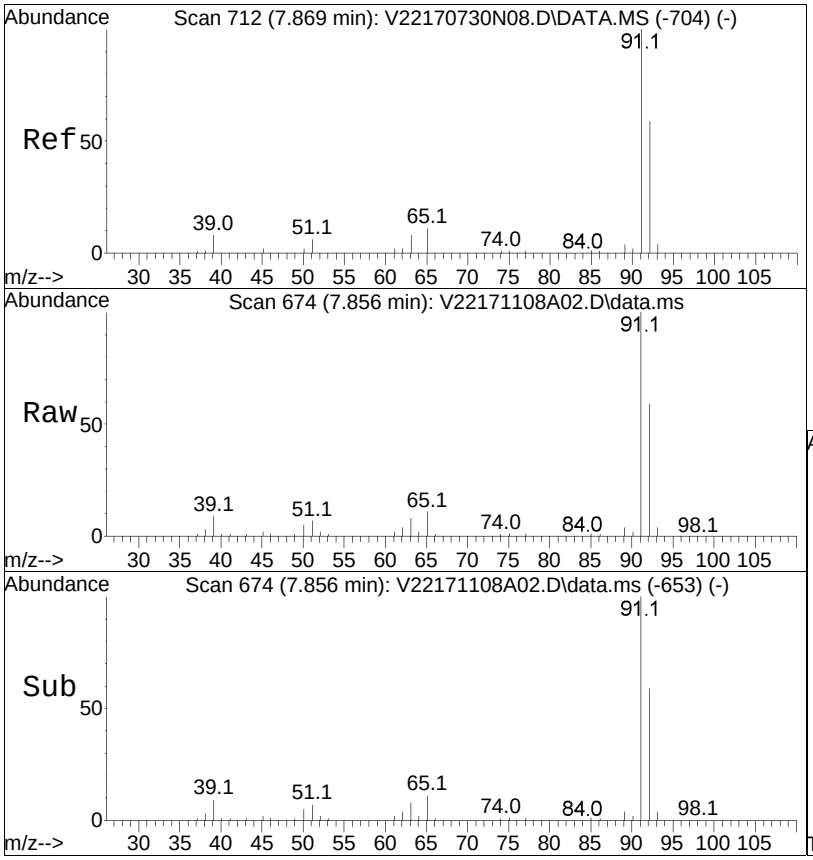


#61
cis-1,3-Dichloropropene
Concen: 8.37 ug/L
RT: 7.582 min Scan# 645
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 75 Resp: 90864

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4
39	53.1	35.4	53.0#

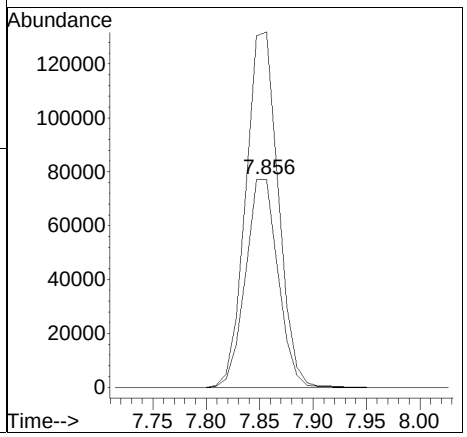


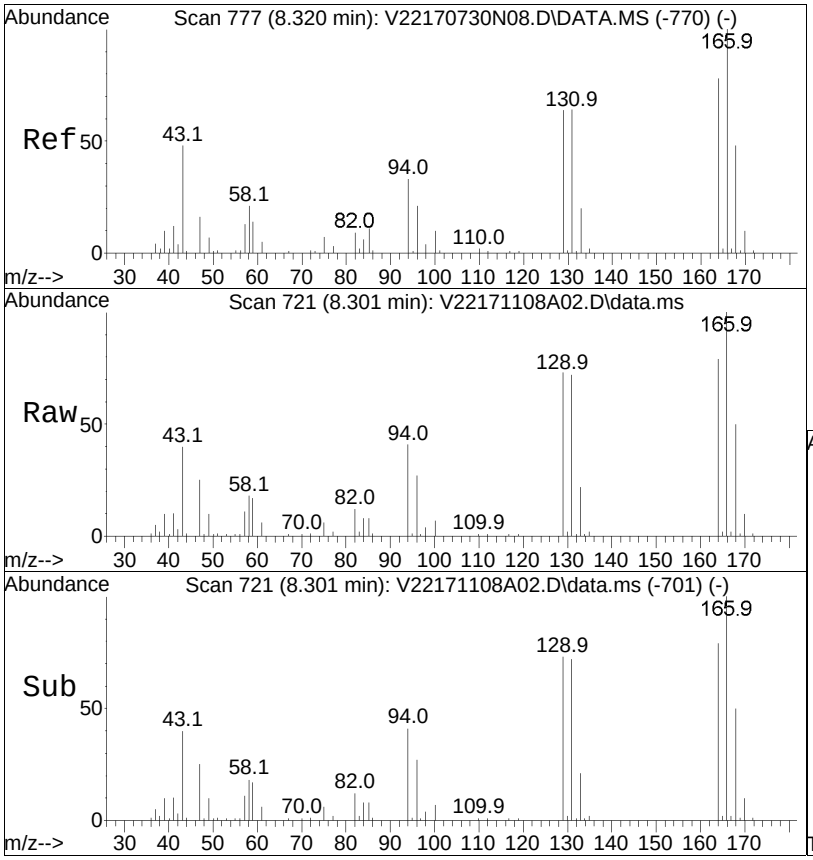


#64
Toluene
Concen: 9.58 ug/L
RT: 7.856 min Scan# 674
Delta R.T. -0.006 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 92 Resp: 163596

Ion	Ratio	Lower	Upper
92	100		
91	170.7	137.0	205.6

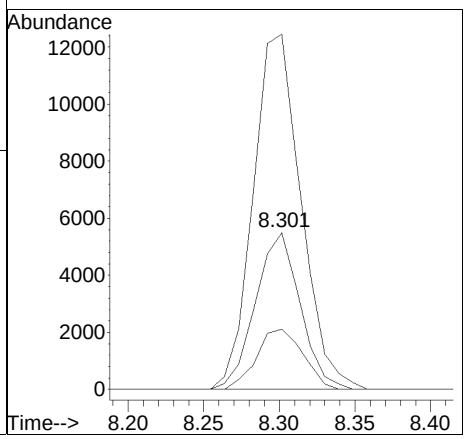


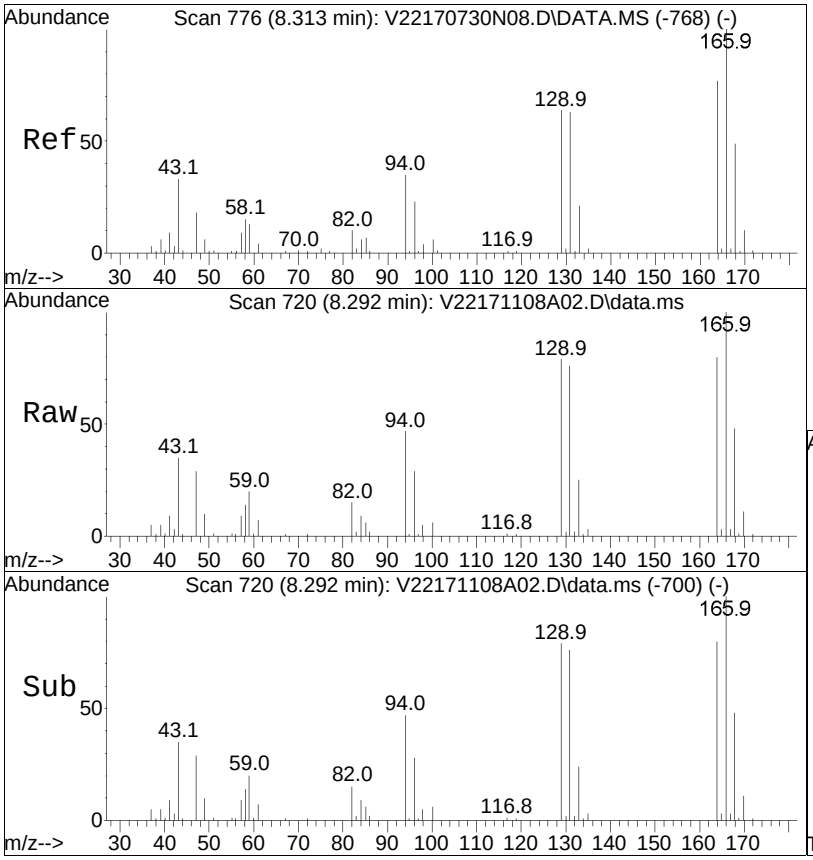


#65
4-Methyl-2-pentanone
Concen: 9.03 ug/L
RT: 8.301 min Scan# 721
Delta R.T. -0.012 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 58 Resp: 11278

Ion	Ratio	Lower	Upper
58	100		
100	40.0	36.2	54.4
43	242.5	181.8	272.8

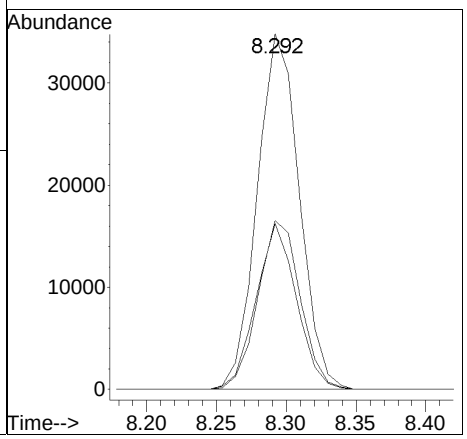


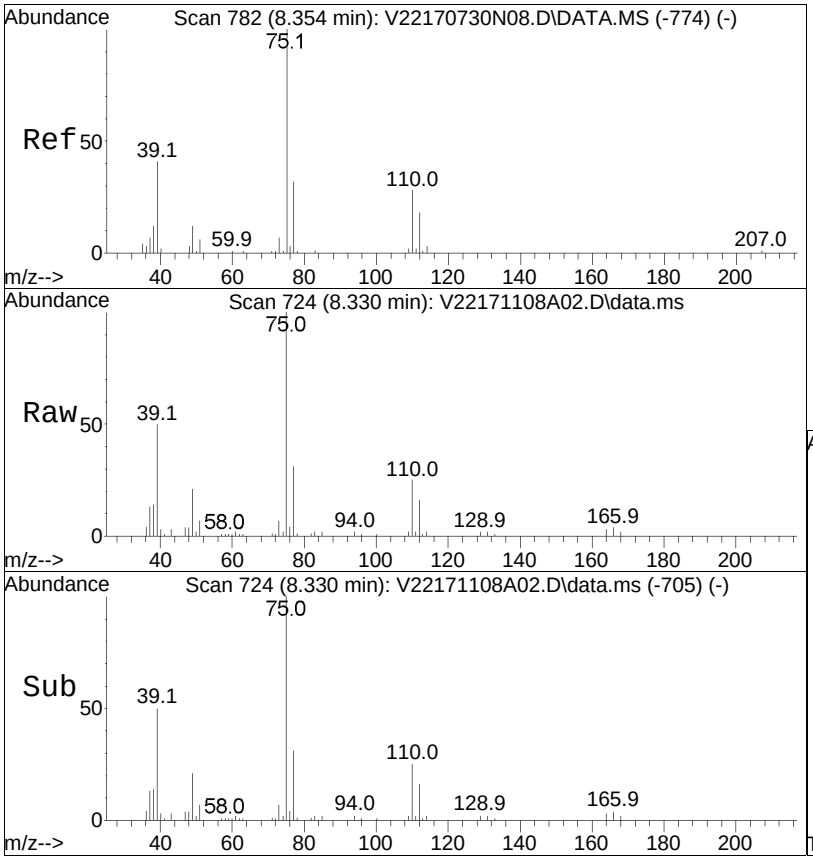


#66
Tetrachloroethene
Concen: 8.25 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:166 Resp: 72862

Ion	Ratio	Lower	Upper
166	100		
168	47.7	27.8	67.8
94	44.7	16.7	56.7

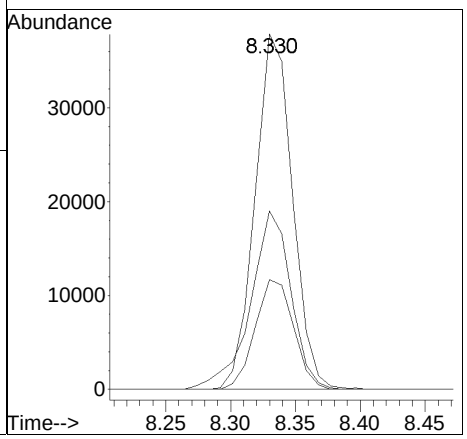


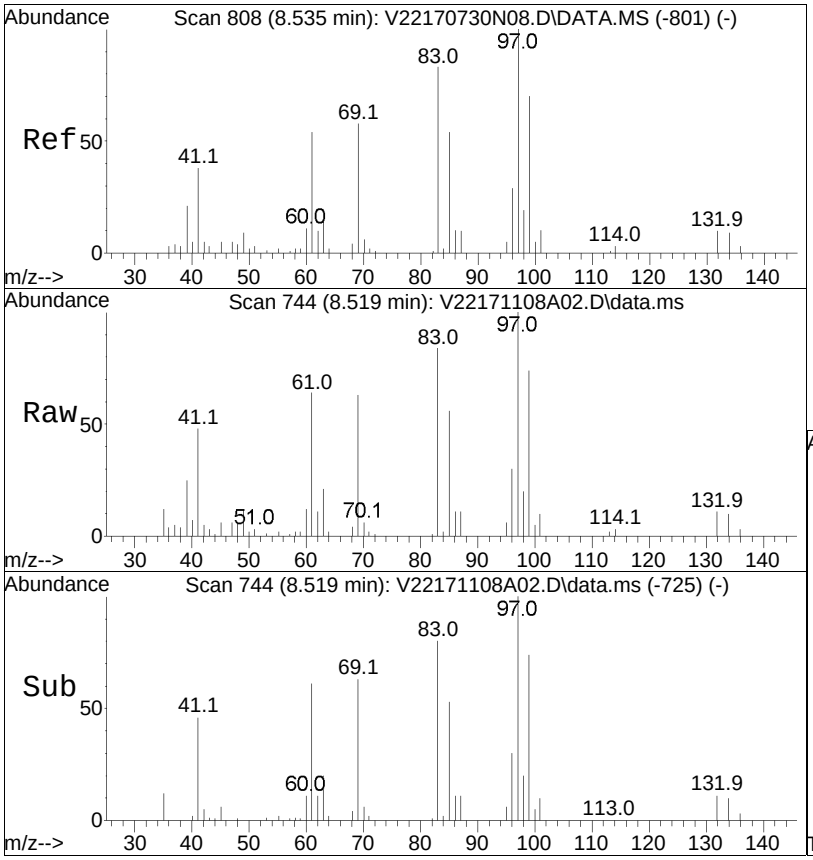


#68
trans-1,3-Dichloropropene
Concen: 9.00 ug/L
RT: 8.330 min Scan# 724
Delta R.T. -0.018 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 75 Resp: 75950

Ion	Ratio	Lower	Upper
75	100		
77	31.8	11.9	51.9
39	54.4	27.4	67.4

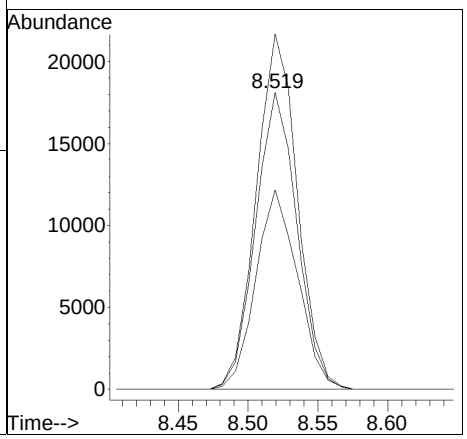


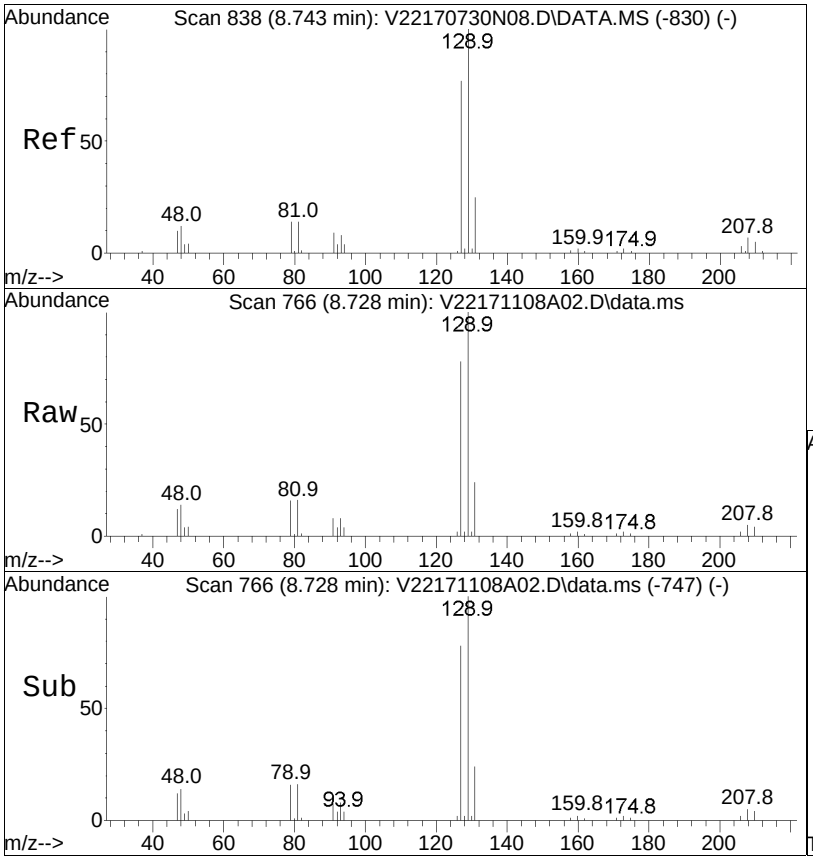


#71
1,1,2-Trichloroethane
Concen: 9.26 ug/L
RT: 8.519 min Scan# 744
Delta R.T. -0.016 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 83 Resp: 37382

Ion	Ratio	Lower	Upper
83	100		
97	119.5	103.4	143.4
85	68.1	47.9	87.9

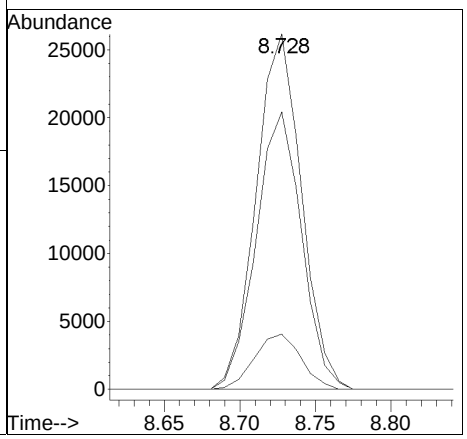


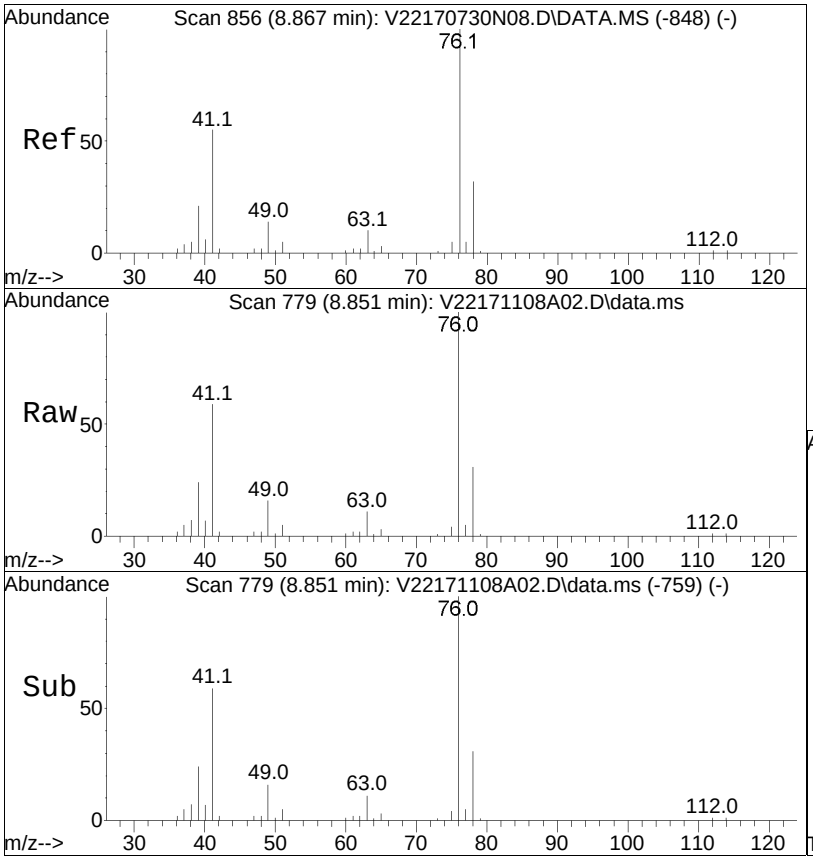


#72
Chlorodibromomethane
Concen: 8.58 ug/L
RT: 8.728 min Scan# 766
Delta R.T. -0.015 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:129 Resp: 54669

Ion	Ratio	Lower	Upper
129	100		
81	16.0	0.0	33.8
127	78.2	57.1	97.1

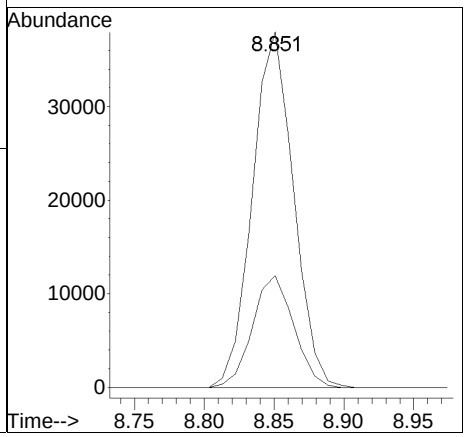


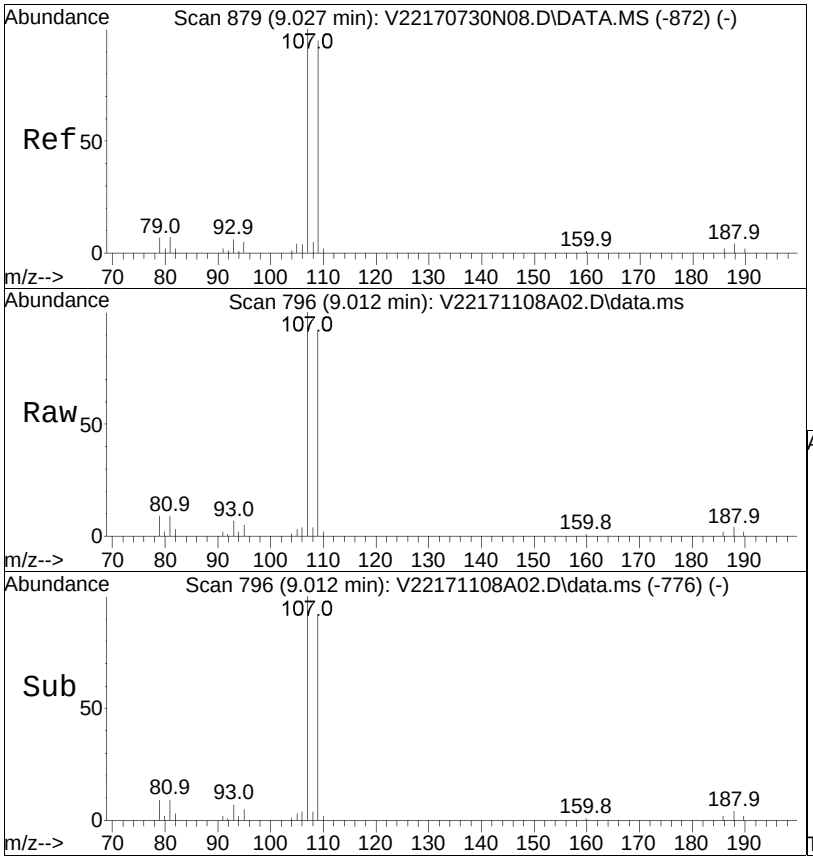


#73
1,3-Dichloropropane
Concen: 9.48 ug/L
RT: 8.851 min Scan# 779
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 76 Resp: 77642

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.7	38.5

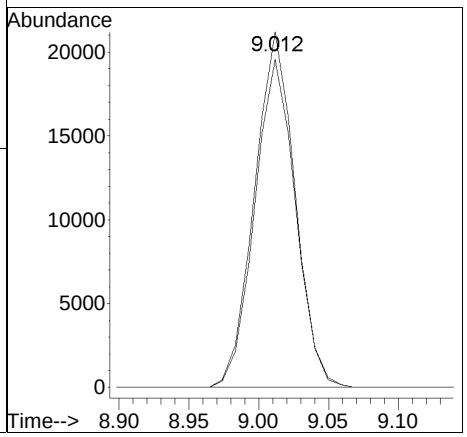


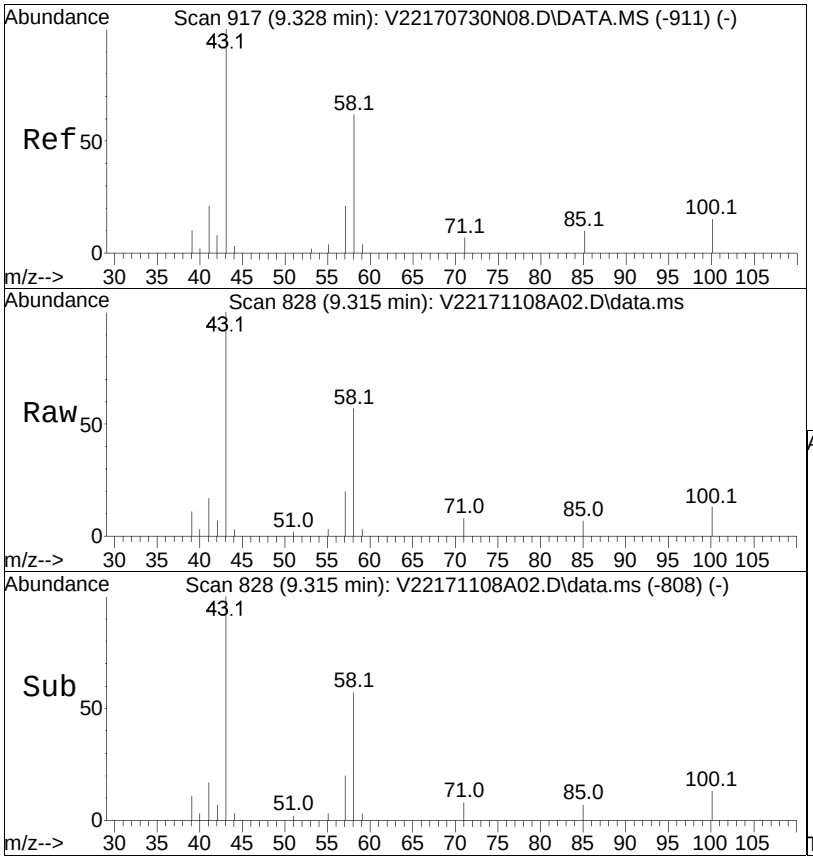


#74
1,2-Dibromoethane
Concen: 8.37 ug/L
RT: 9.012 min Scan# 796
Delta R.T. -0.015 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:107 Resp: 42837

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.1	112.7

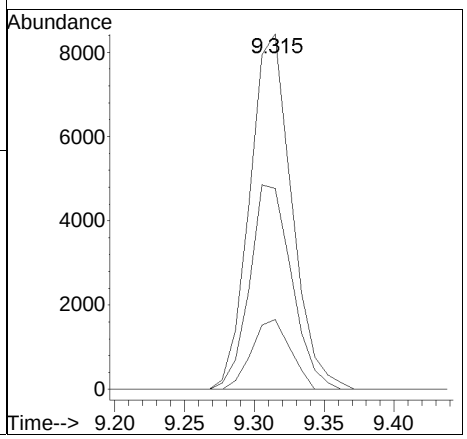


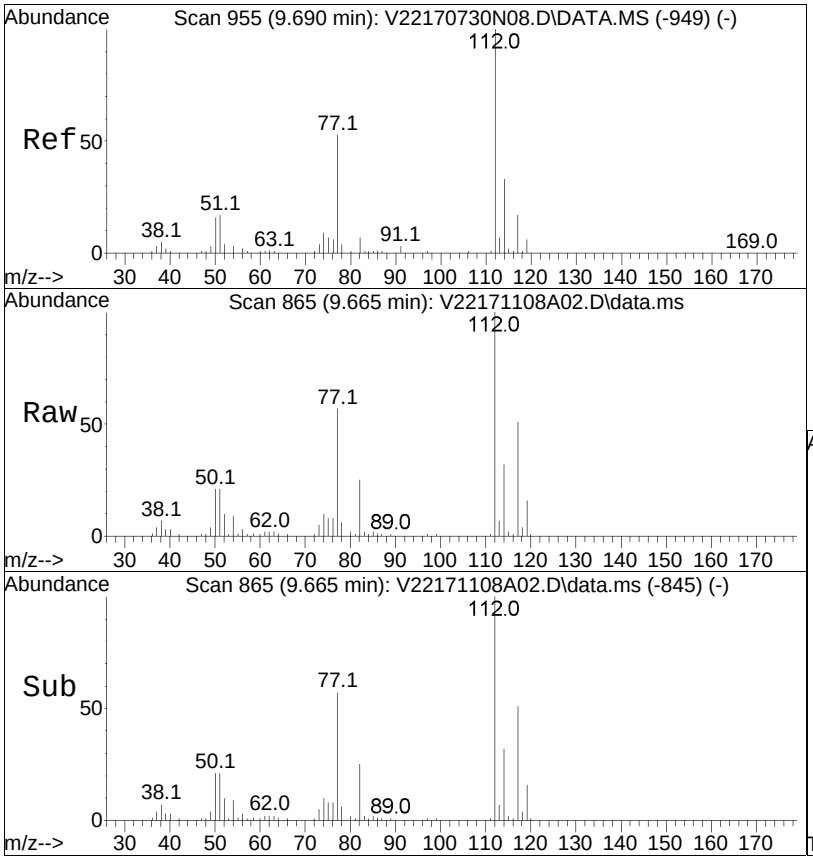


#76
2-Hexanone
Concen: 9.75 ug/L
RT: 9.315 min Scan# 828
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 43 Resp: 17691

Ion	Ratio	Lower	Upper
43	100		
58	57.5	47.6	71.4
57	18.1	16.6	24.8

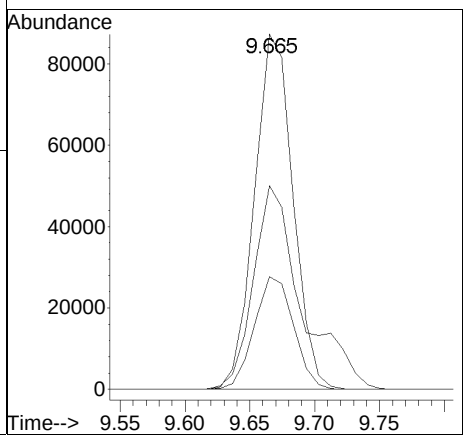


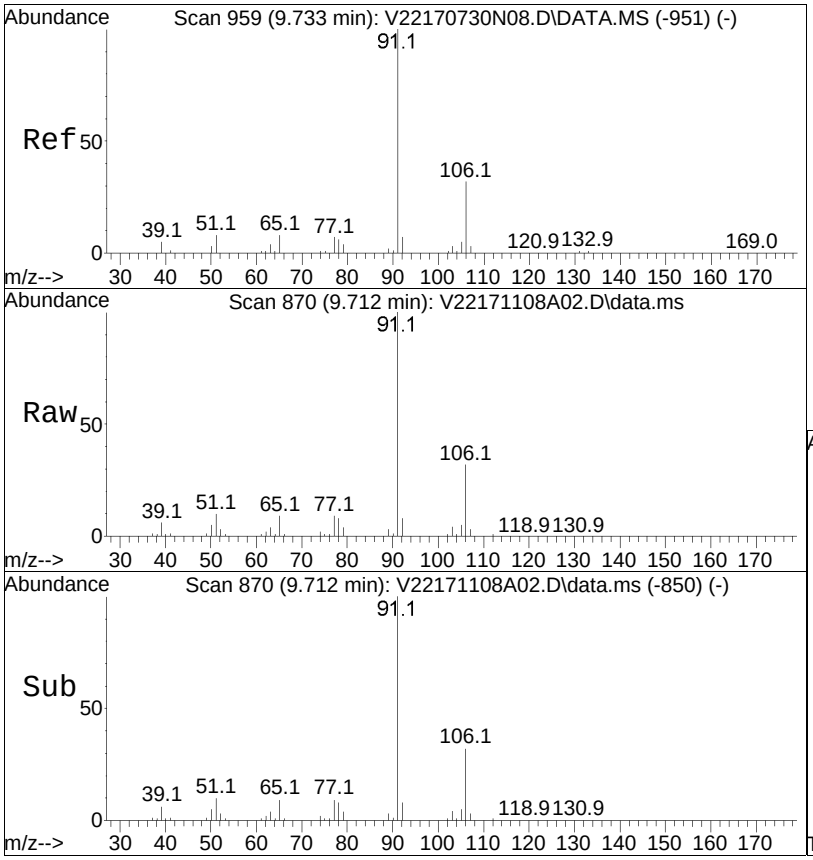


#77
Chlorobenzene
Concen: 9.07 ug/L
RT: 9.665 min Scan# 865
Delta R.T. -0.015 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:112 Resp: 180150

Ion	Ratio	Lower	Upper
112	100		
77	72.1	55.4	83.0
114	32.4	26.2	39.4

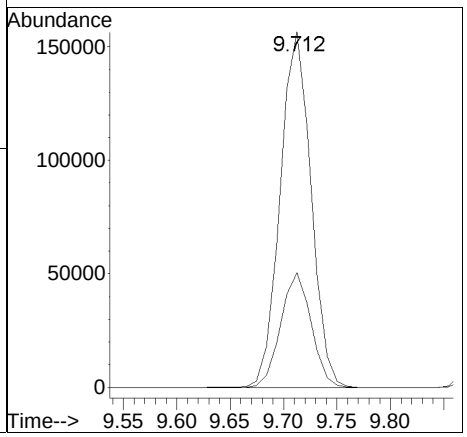


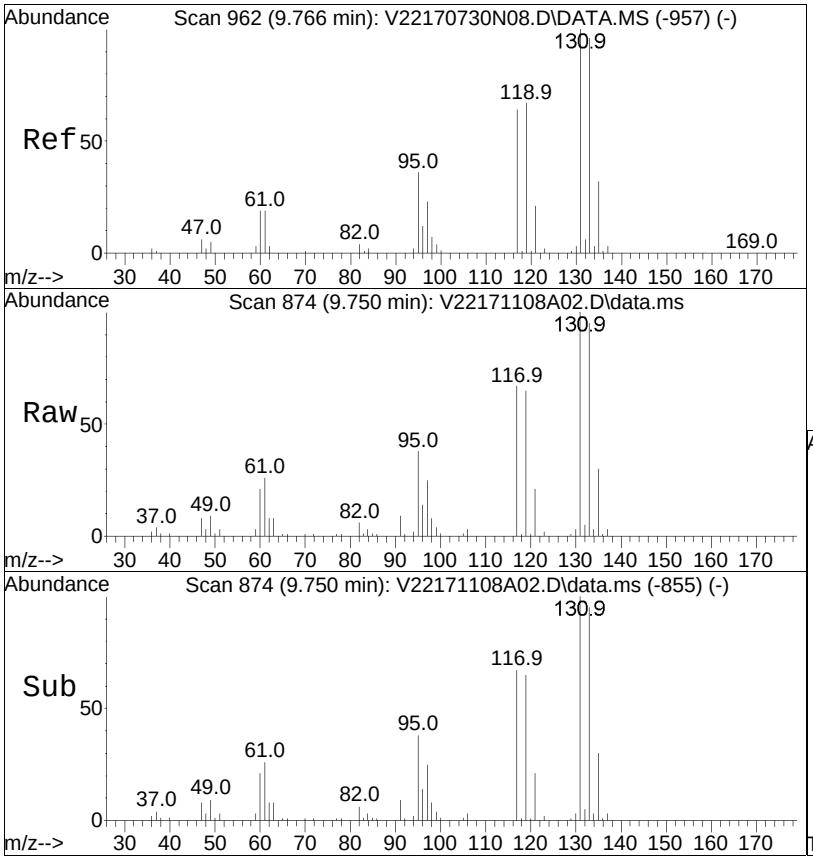


#78
Ethylbenzene
Concen: 9.36 ug/L
RT: 9.712 min Scan# 870
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 91 Resp: 314123

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.8	38.6

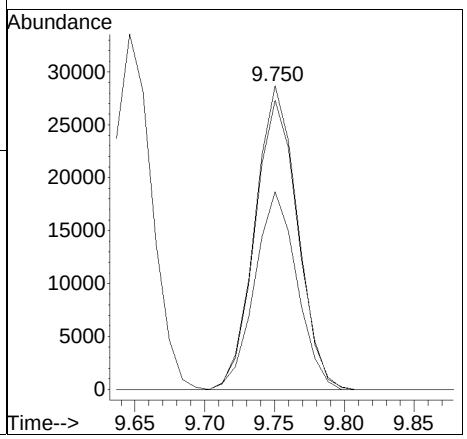


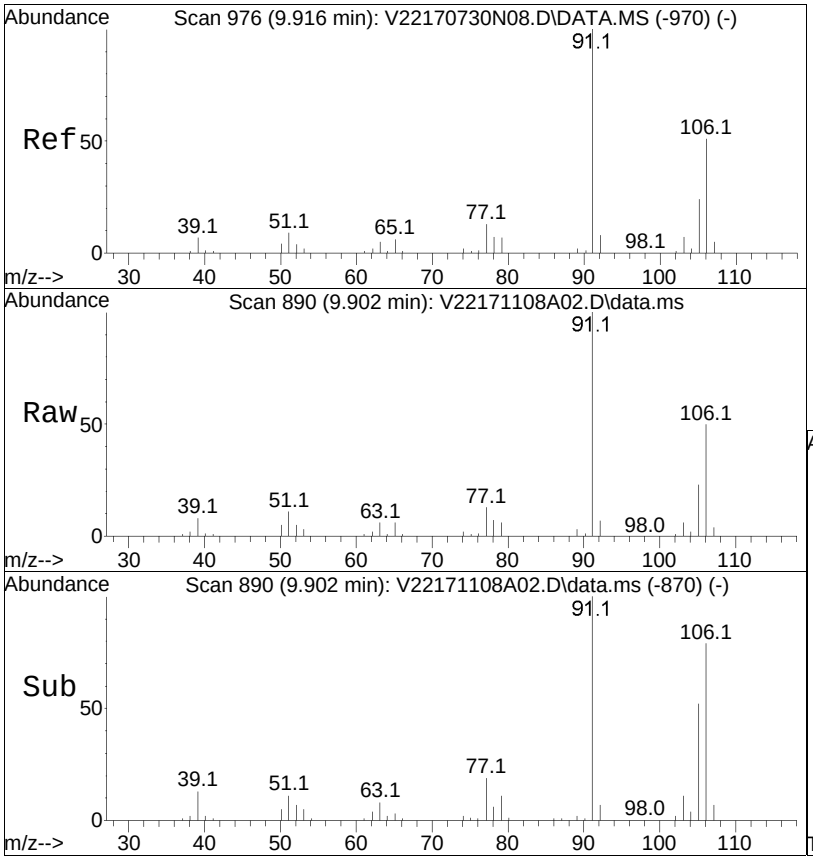


#79
1,1,1,2-Tetrachloroethane
Concen: 8.76 ug/L
RT: 9.750 min Scan# 874
Delta R.T. -0.016 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:131 Resp: 60632

Ion	Ratio	Lower	Upper
131	100		
133	96.5	75.3	115.3
119	64.7	49.3	89.3

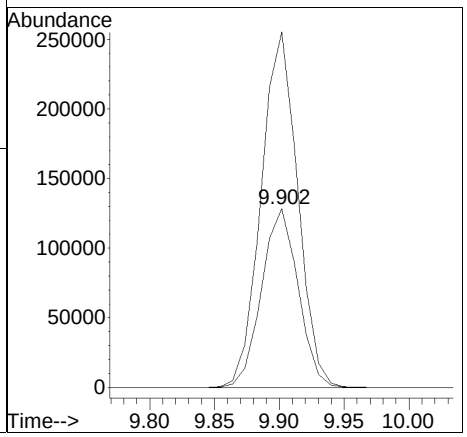


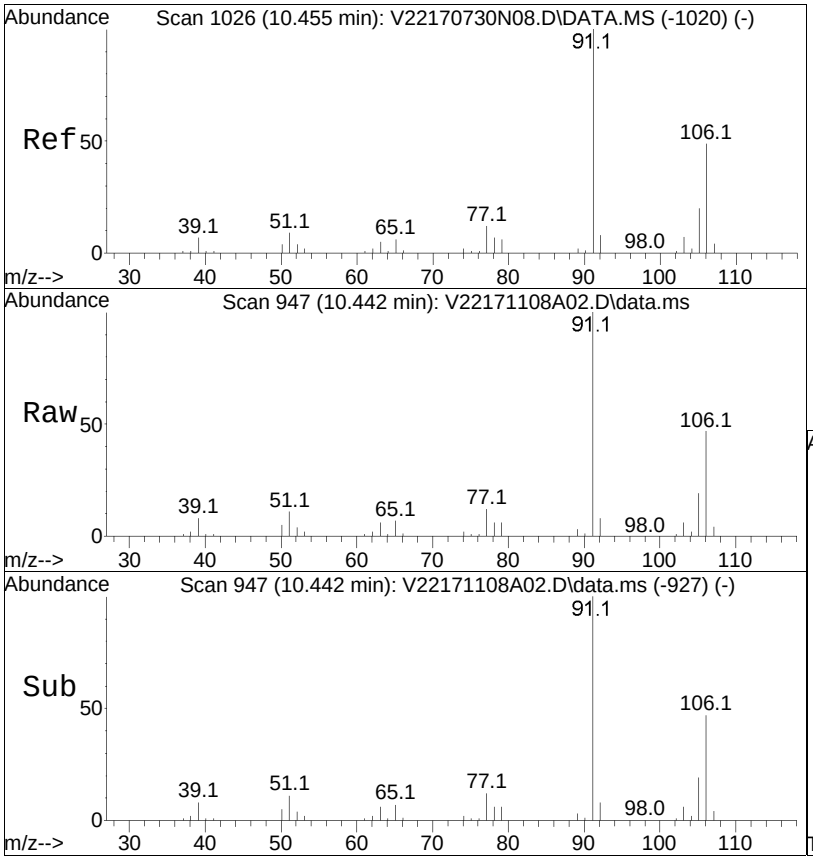


#80
p/m Xylene
Concen: 18.72 ug/L
RT: 9.902 min Scan# 890
Delta R.T. -0.014 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:106 Resp: 251586

Ion	Ratio	Lower	Upper
106	100		
91	198.6	156.0	234.0

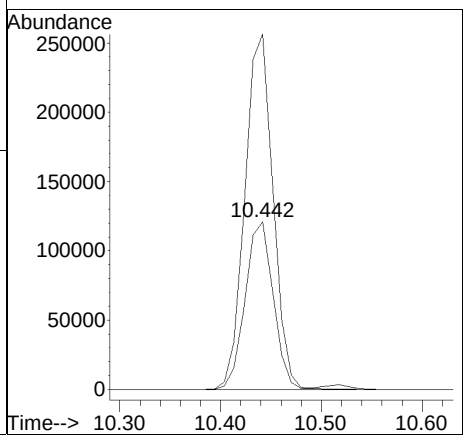


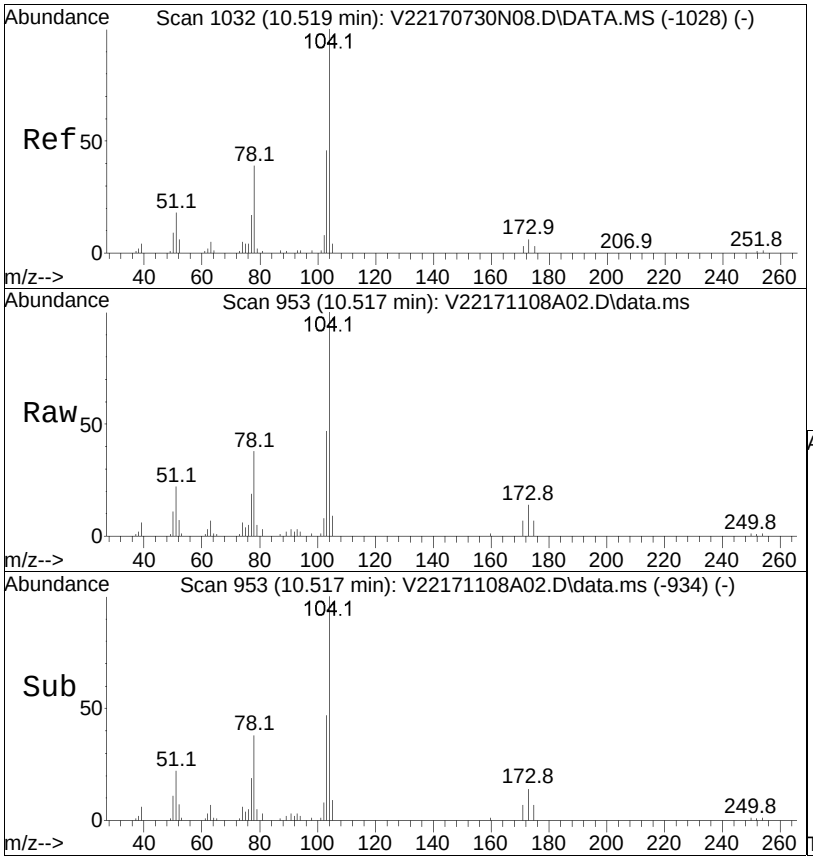


#81
o Xylene
Concen: 21.37 ug/L
RT: 10.442 min Scan# 947
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:106 Resp: 263510

Ion	Ratio	Lower	Upper
106	100		
91	188.6	164.0	246.0

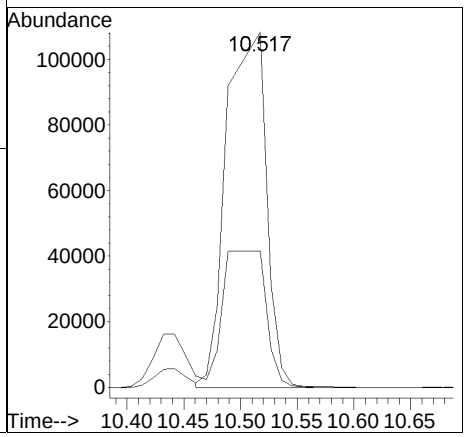


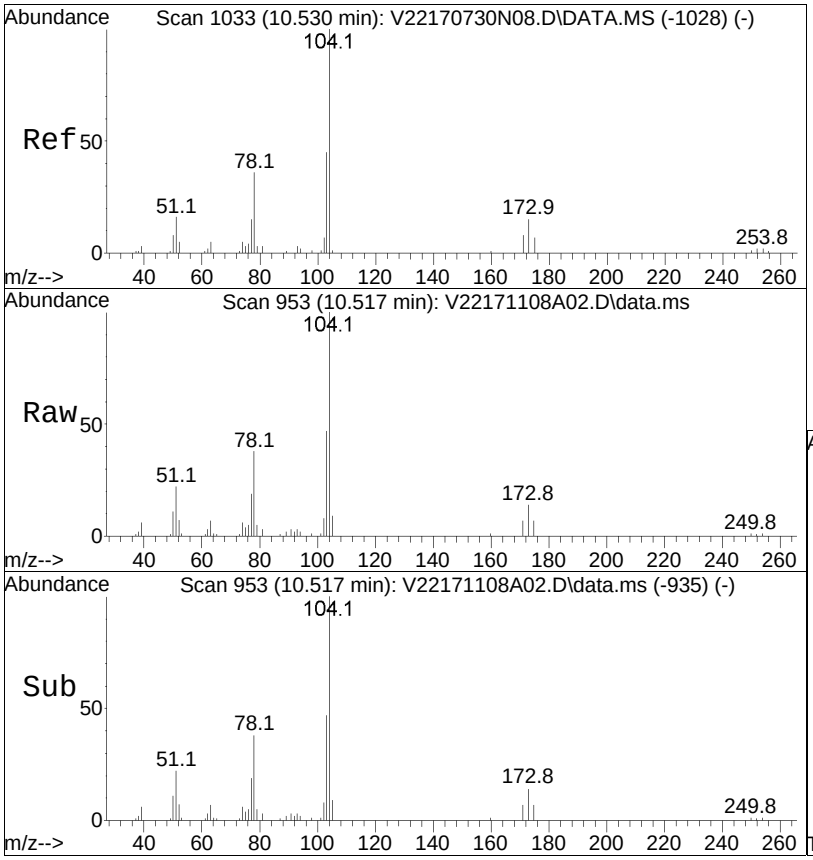


#82
Styrene
Concen: 8.76 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.002 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:104 Resp: 174376

Ion	Ratio	Lower	Upper
104	100		
78	43.4	32.1	48.1

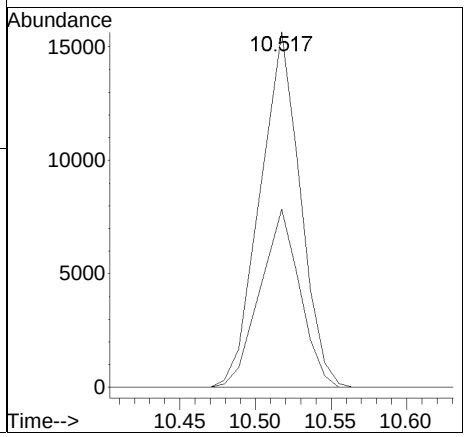


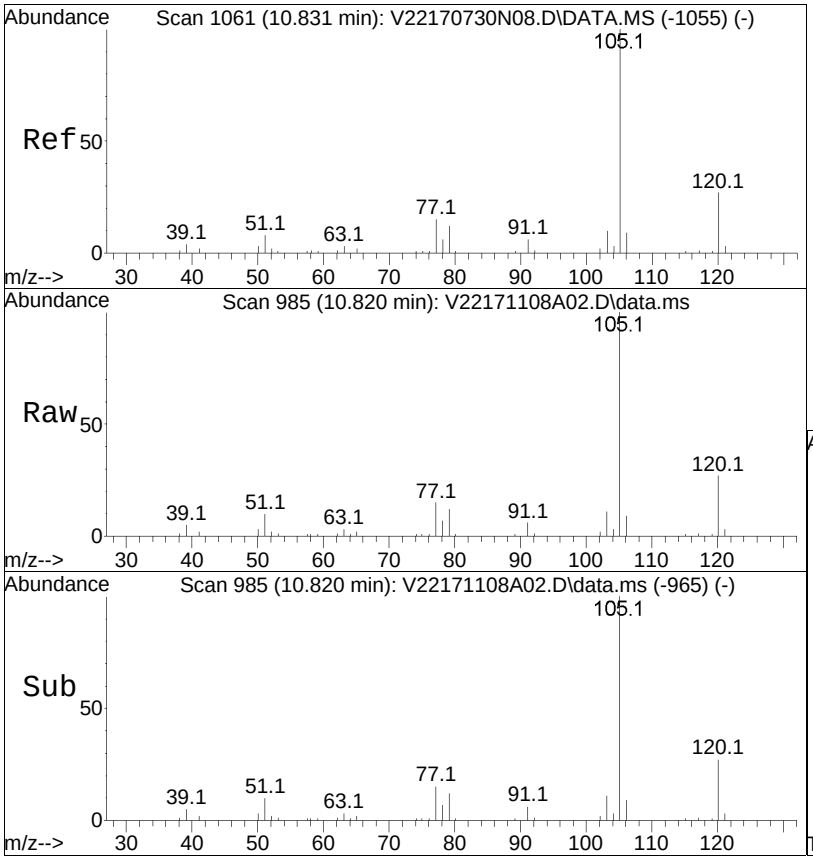


#84
Bromoform
Concen: 5.61 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:173 Resp: 23024

Ion	Ratio	Lower	Upper
173	100		
175	50.3	29.3	69.3

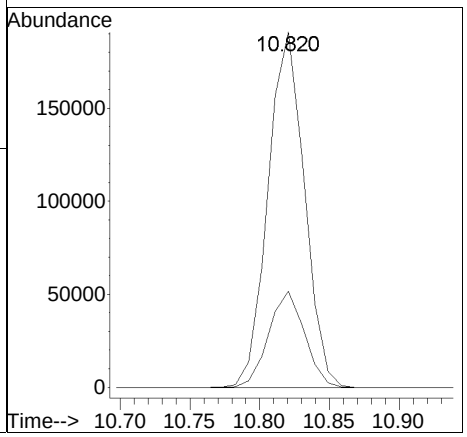


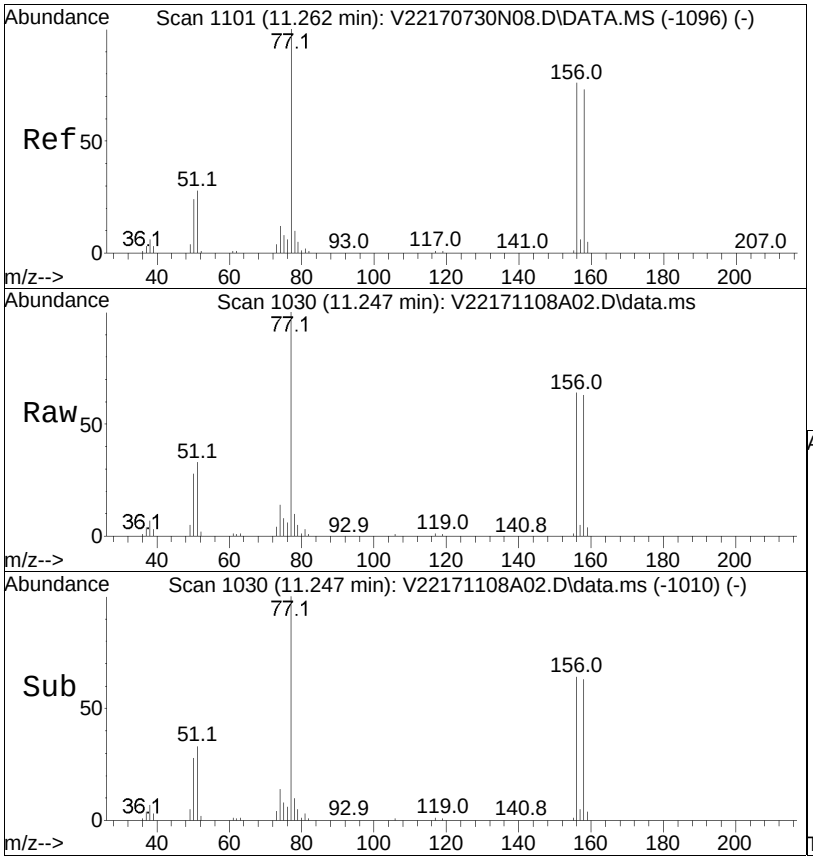


#86
Isopropylbenzene
Concen: 10.34 ug/L
RT: 10.820 min Scan# 985
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:105 Resp: 345858

Ion	Ratio	Lower	Upper
105	100		
120	26.7	7.7	47.7

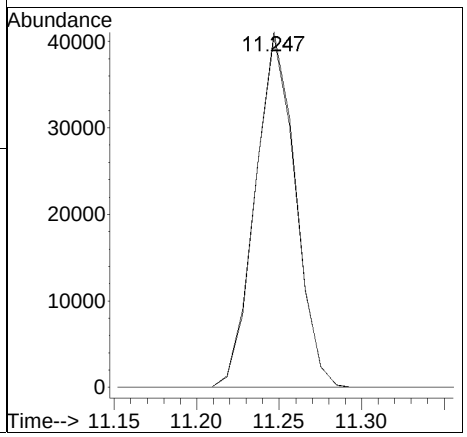


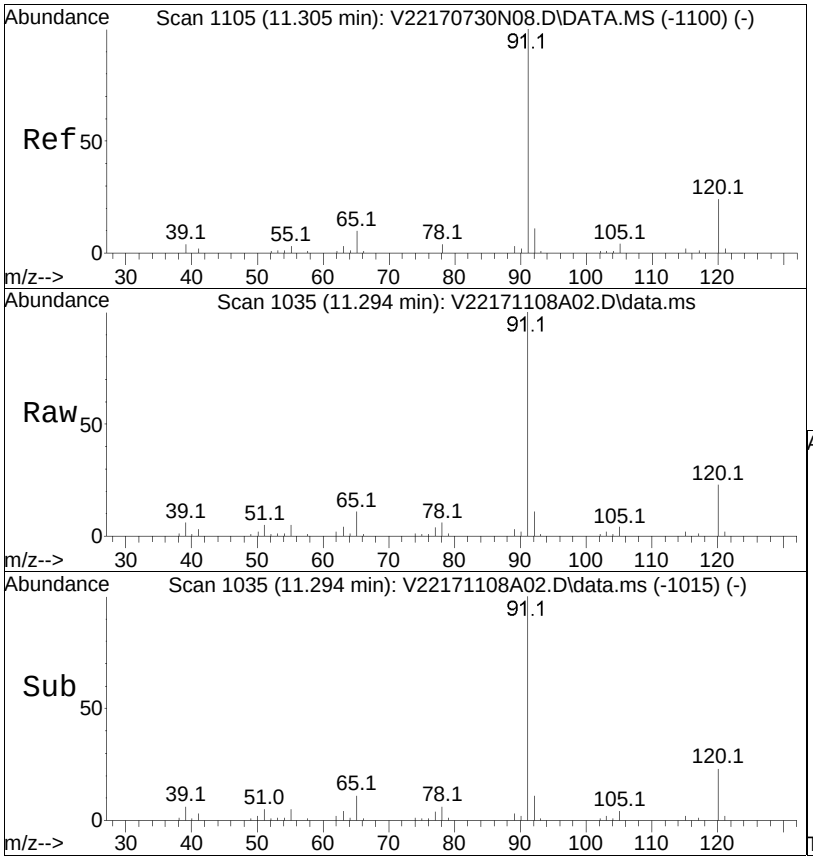


#88
Bromobenzene
Concen: 8.65 ug/L
RT: 11.247 min Scan# 1030
Delta R.T. -0.015 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:156 Resp: 69995

Ion	Ratio	Lower	Upper
156	100		
158	98.1	77.9	116.9

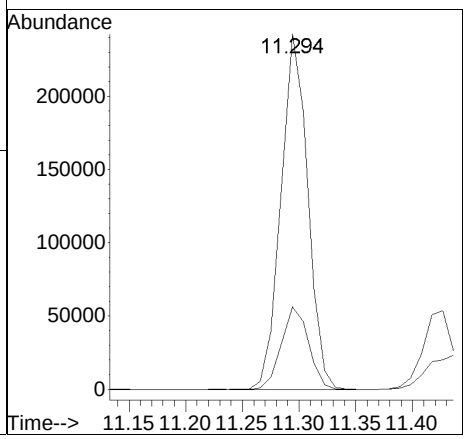


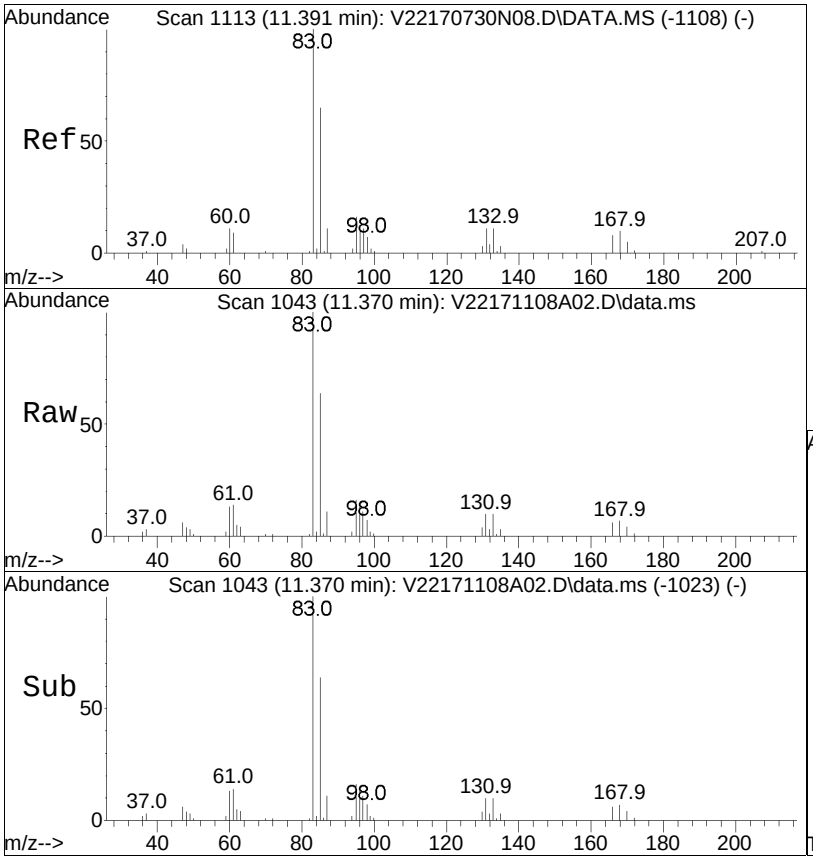


#89
n-Propylbenzene
Concen: 10.47 ug/L
RT: 11.294 min Scan# 1035
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 91 Resp: 398908

Ion	Ratio	Lower	Upper
91	100		
120	23.5	19.5	29.3

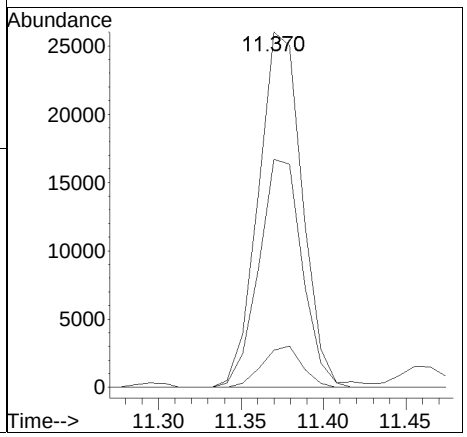


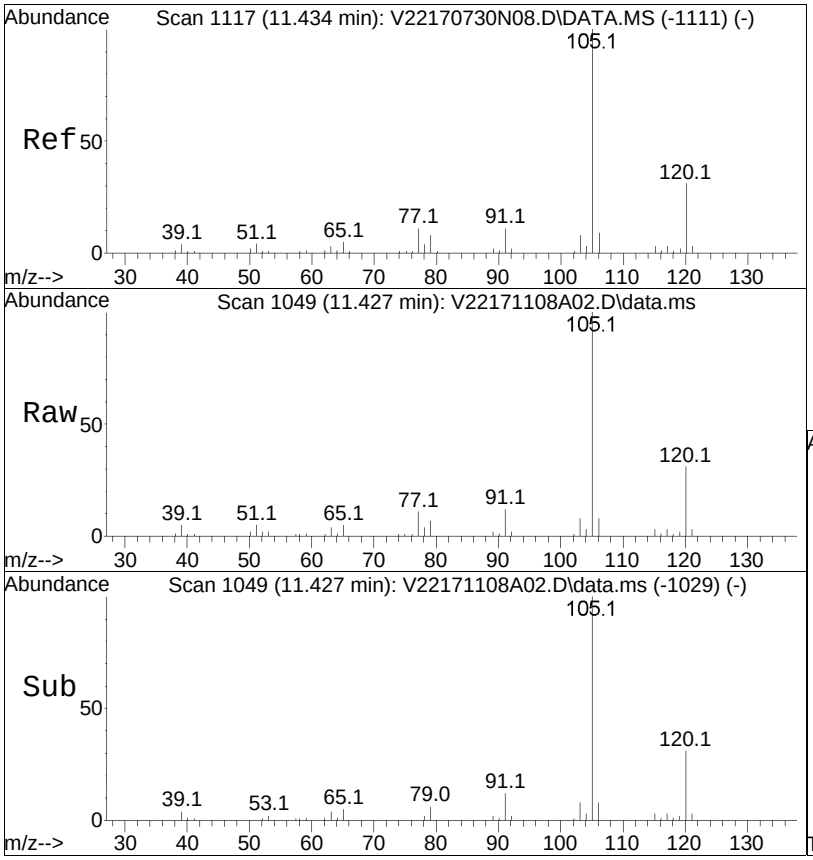


#91
1,1,2,2-Tetrachloroethane
Concen: 9.67 ug/L
RT: 11.370 min Scan# 1043
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 83 Resp: 48006

Ion	Ratio	Lower	Upper
83	100		
131	10.7	0.0	30.8
85	64.6	45.4	85.4

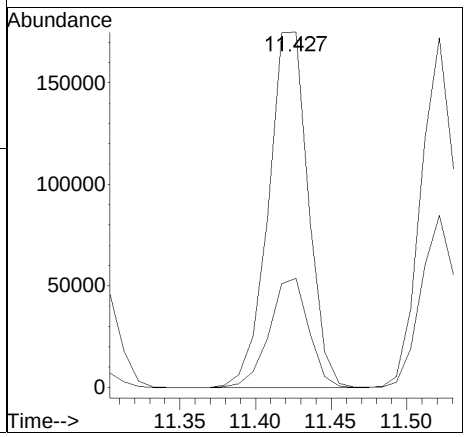


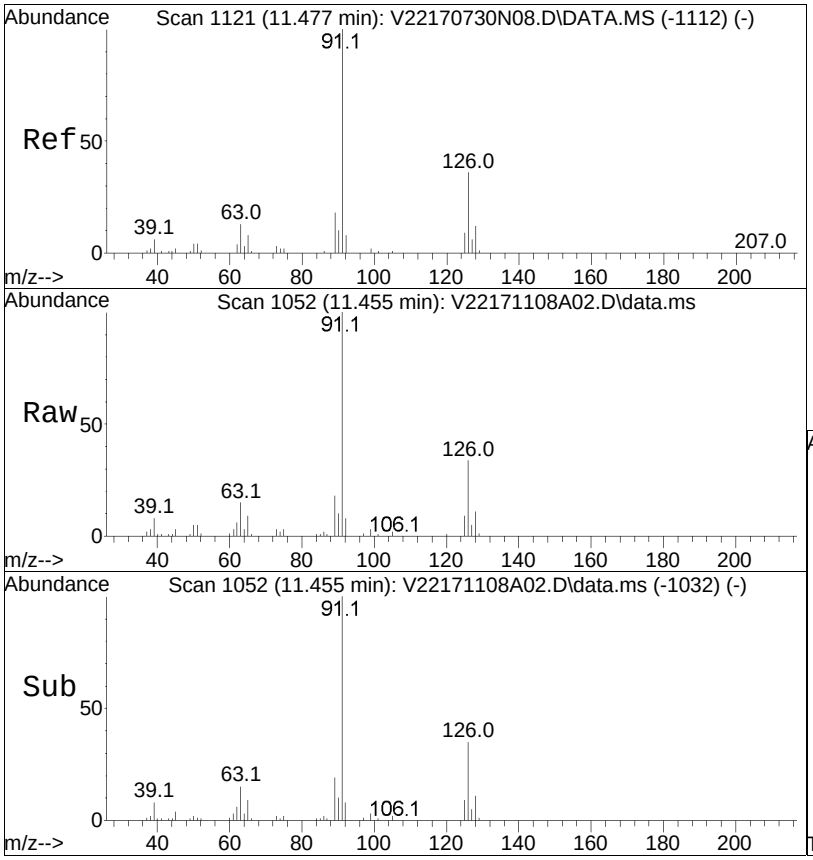


#92
4-Ethyltoluene
Concen: 10.47 ug/L
RT: 11.427 min Scan# 1049
Delta R.T. -0.007 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:105 Resp: 321150

Ion	Ratio	Lower	Upper
105	100		
120	30.2	19.8	41.0

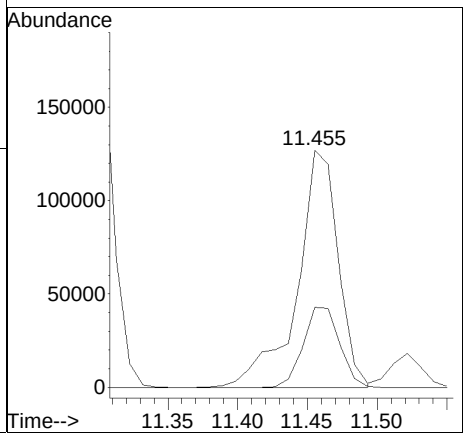


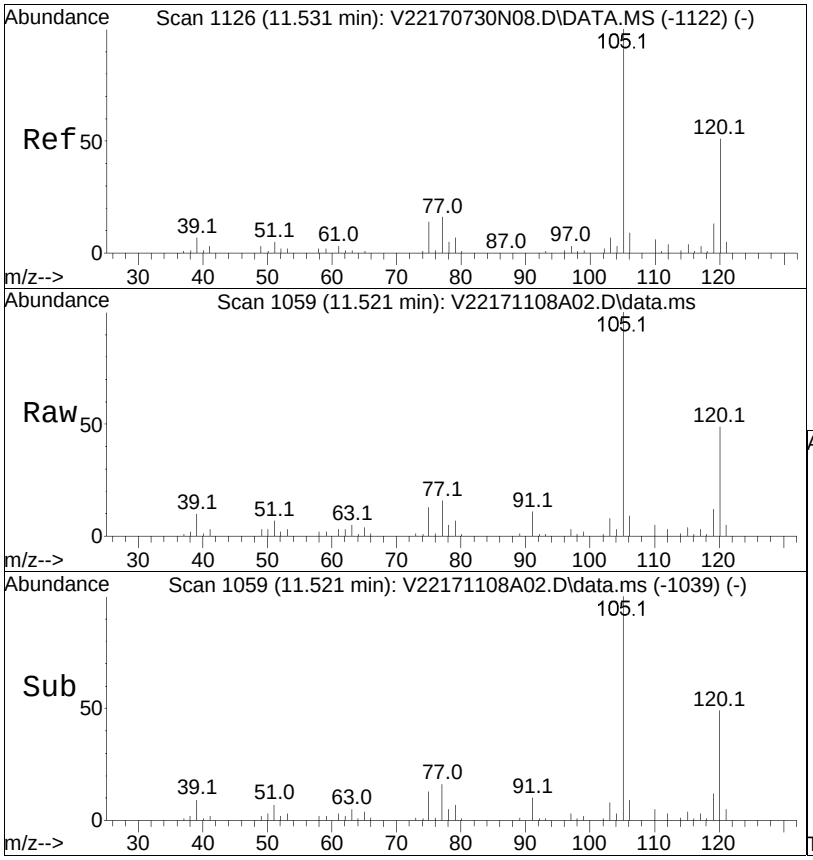


#93
2-Chlorotoluene
Concen: 10.54 ug/L
RT: 11.455 min Scan# 1052
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 91 Resp: 259214

Ion	Ratio	Lower	Upper
91	100		
126	30.0	24.6	37.0

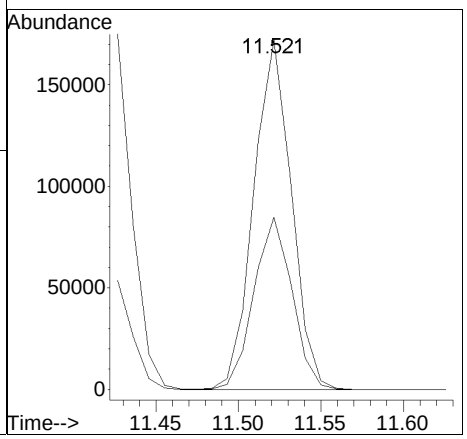


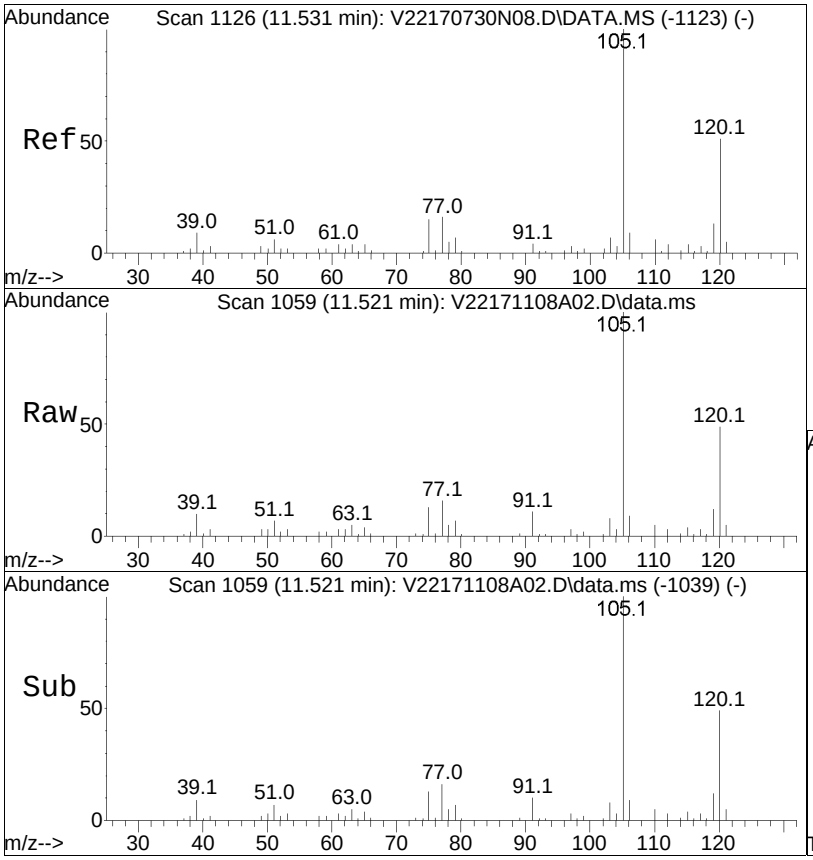


#94
1,3,5-Trimethylbenzene
Concen: 10.44 ug/L
RT: 11.521 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:105 Resp: 273599

Ion	Ratio	Lower	Upper
105	100		
120	49.9	40.9	61.3

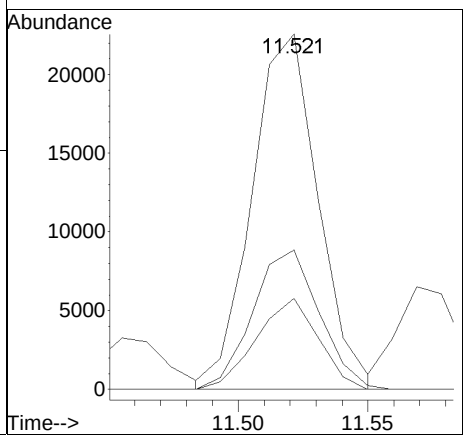


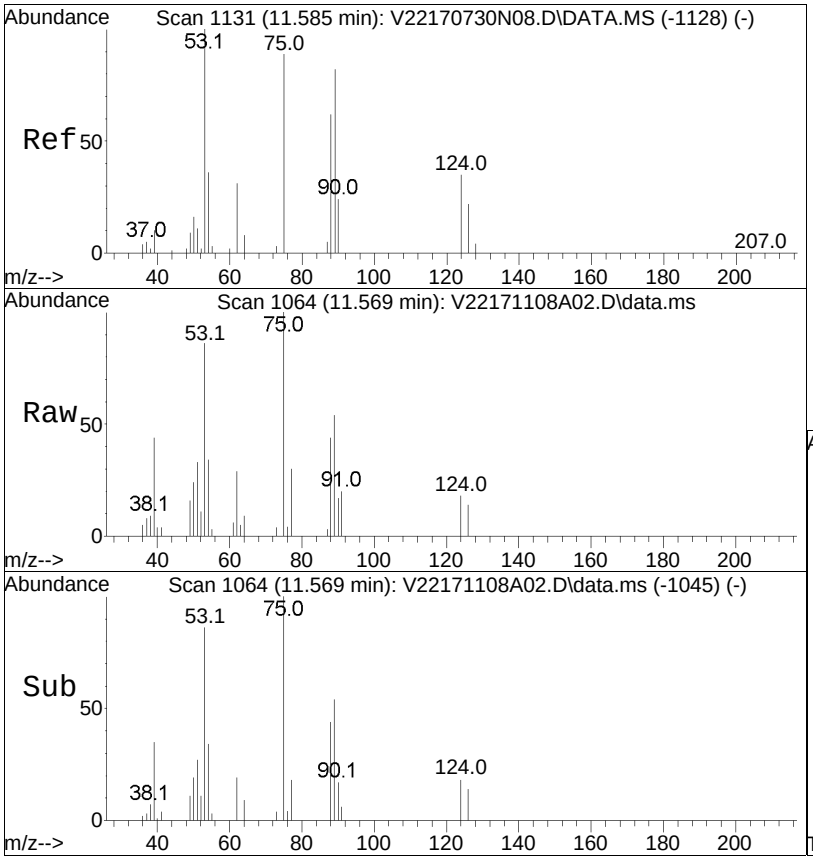


#95
1,2,3-Trichloropropane
Concen: 10.03 ug/L
RT: 11.521 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 75 Resp: 40001

Ion	Ratio	Lower	Upper
75	100		
110	39.6	26.3	54.7
112	24.1	16.8	35.0

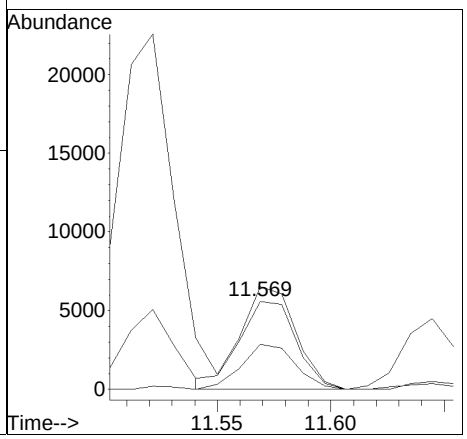


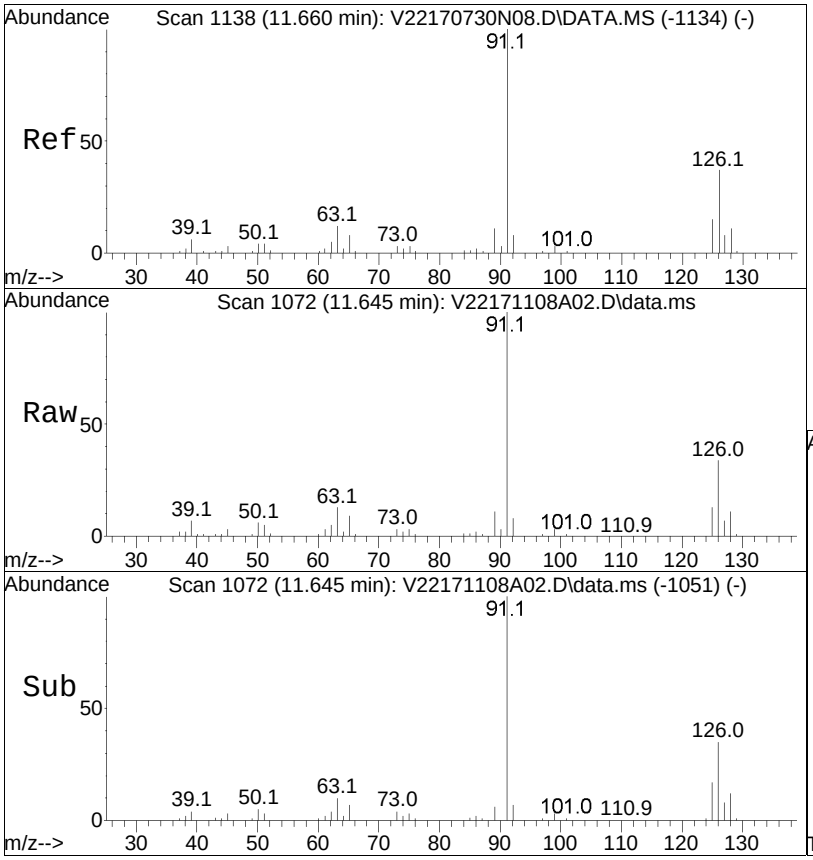


#96
trans-1,4-Dichloro-2-butene
Concen: 7.85 ug/L
RT: 11.569 min Scan# 1064
Delta R.T. -0.016 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 53 Resp: 9823

Ion	Ratio	Lower	Upper
53	100		
88	50.5	46.3	69.5
75	108.4	109.0	163.4#

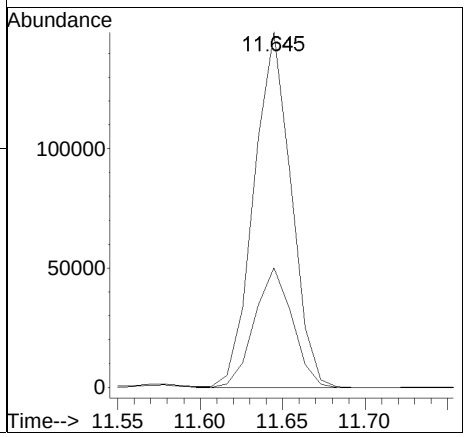


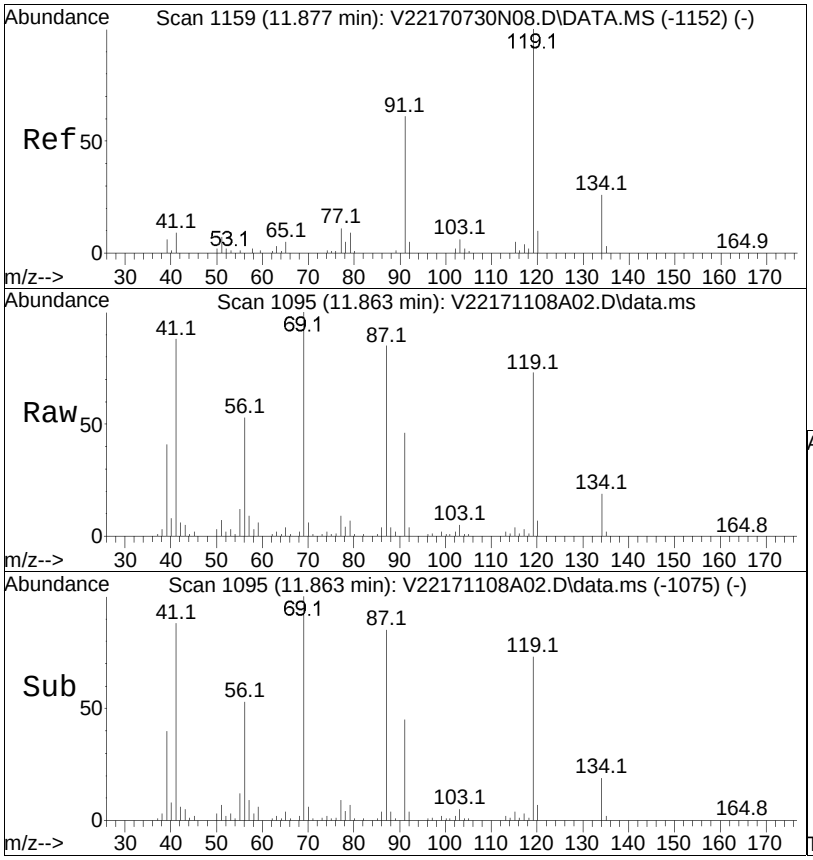


#97
4-Chlorotoluene
Concen: 10.44 ug/L
RT: 11.645 min Scan# 1072
Delta R.T. -0.004 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 91 Resp: 233937

Ion	Ratio	Lower	Upper
91	100		
126	34.1	28.5	42.7

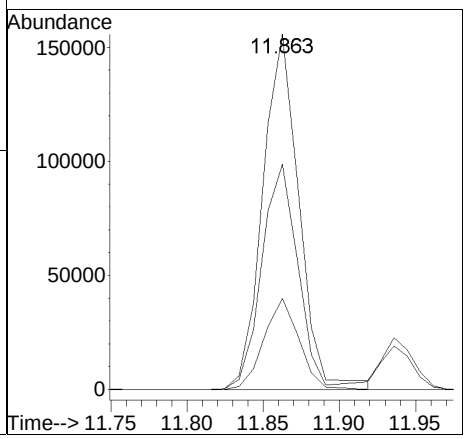


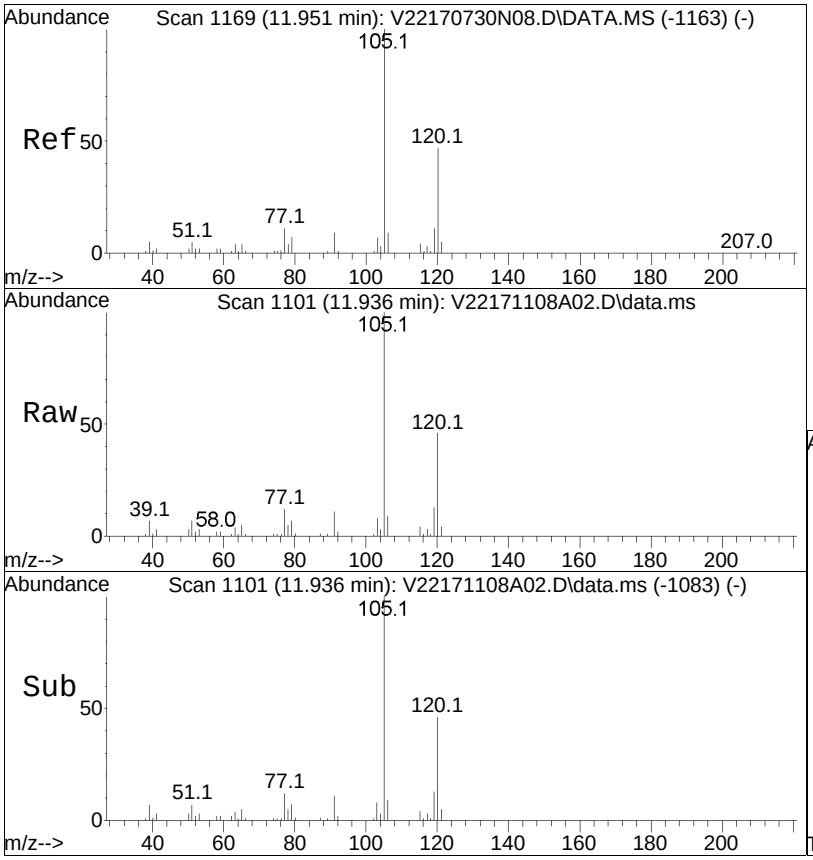


#98
tert-Butylbenzene
Concen: 12.55 ug/L
RT: 11.863 min Scan# 1095
Delta R.T. -0.007 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:119 Resp: 301367

Ion	Ratio	Lower	Upper
119	100		
91	53.5	50.2	75.4
134	24.8	20.8	31.2

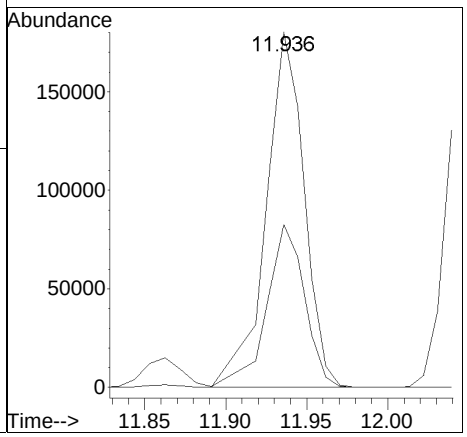


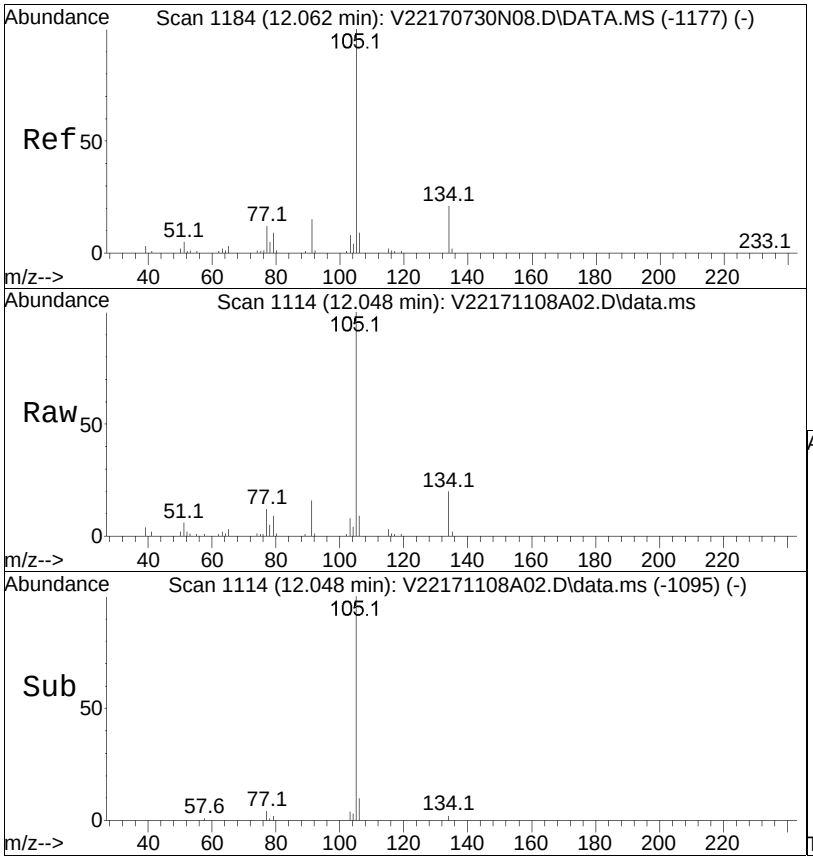


#101
1,2,4-Trimethylbenzene
Concen: 12.95 ug/L
RT: 11.936 min Scan# 1101
Delta R.T. -0.015 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:105 Resp: 339686

Ion	Ratio	Lower	Upper
105	100		
120	46.2	38.5	57.7

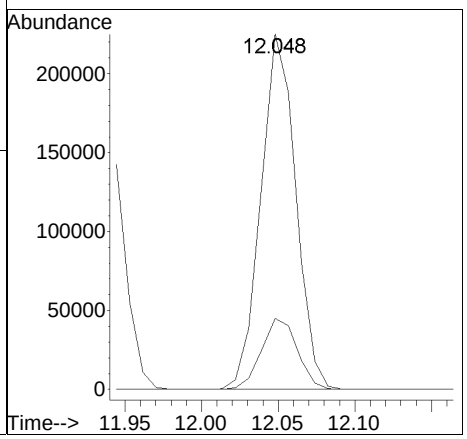


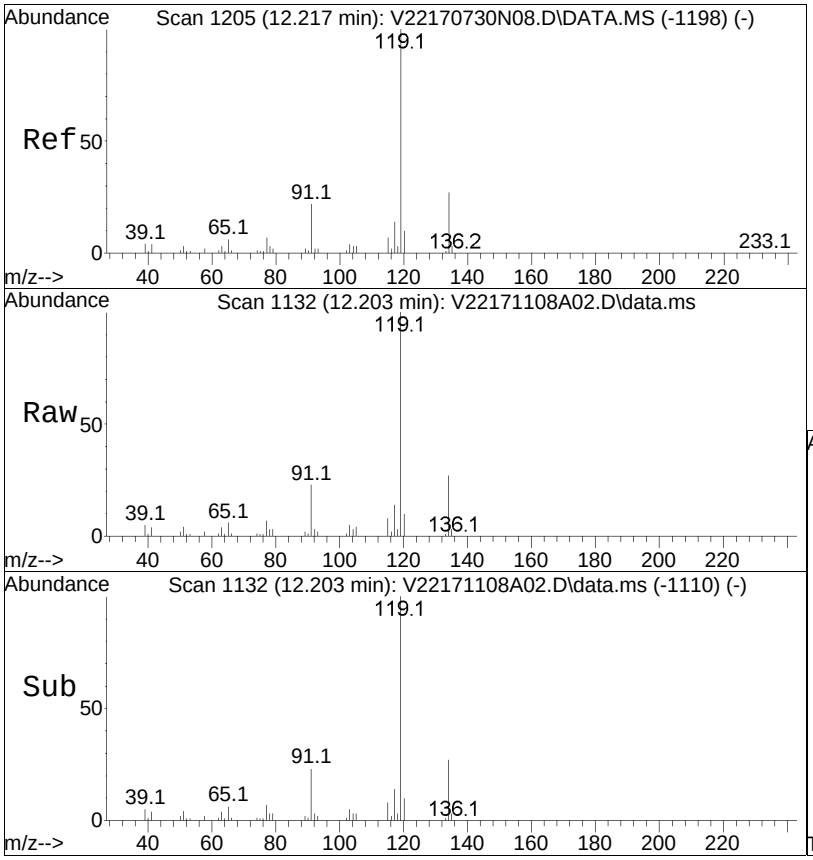


#102
sec-Butylbenzene
Concen: 10.50 ug/L
RT: 12.048 min Scan# 1114
Delta R.T. -0.014 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:105 Resp: 357007

Ion	Ratio	Lower	Upper
105	100		
134	20.5	13.9	28.9

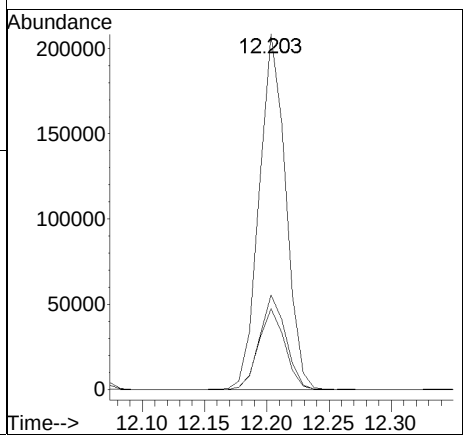


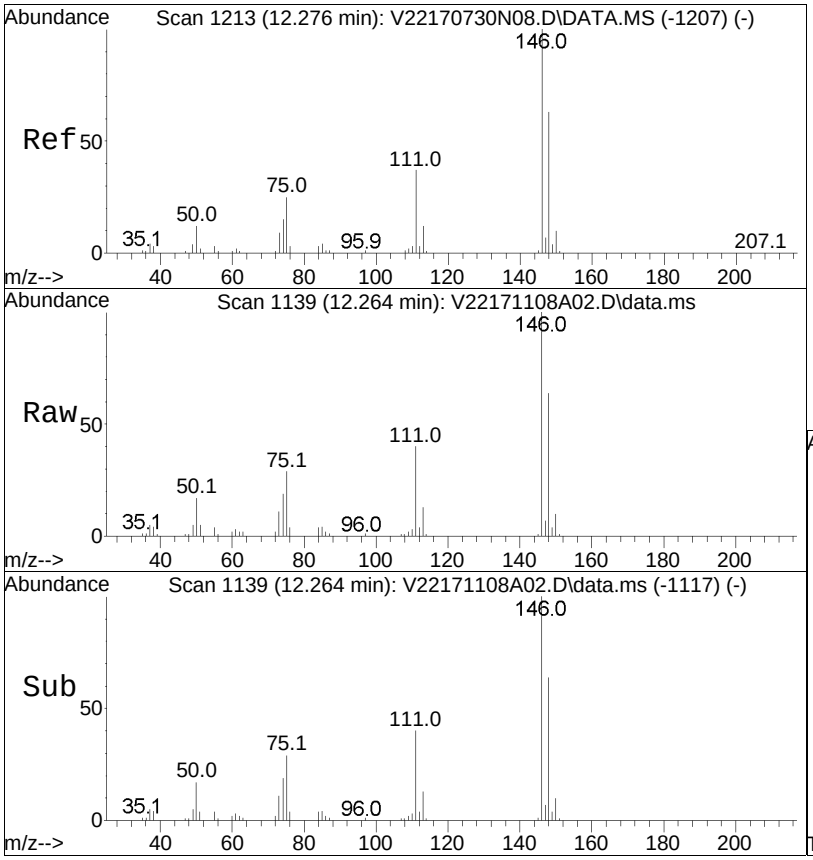


#103
p-Isopropyltoluene
Concen: 10.44 ug/L
RT: 12.203 min Scan# 1132
Delta R.T. -0.014 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:119 Resp: 308274

Ion	Ratio	Lower	Upper
119	100		
134	26.1	17.7	36.7
91	22.5	14.1	29.3

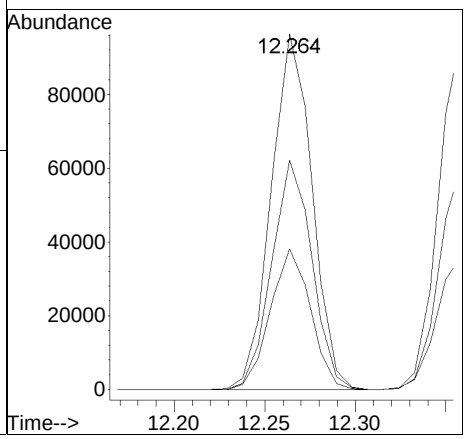


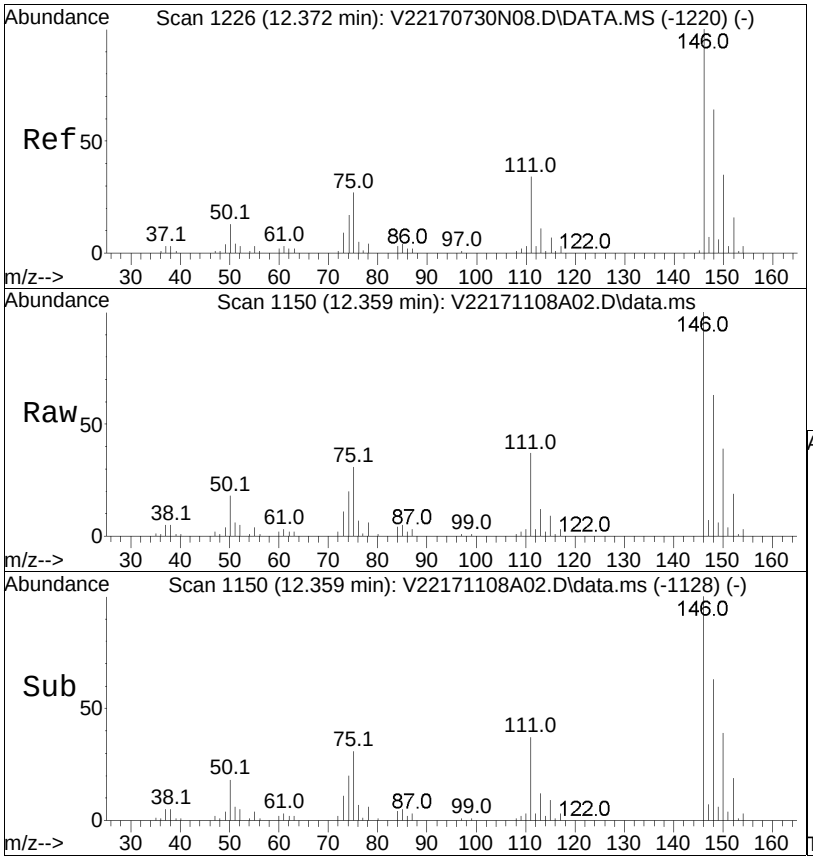


#104
1,3-Dichlorobenzene
Concen: 9.63 ug/L
RT: 12.264 min Scan# 1139
Delta R.T. -0.012 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:146 Resp: 151040

Ion	Ratio	Lower	Upper
146	100		
111	39.0	24.0	49.8
148	63.6	41.8	86.8

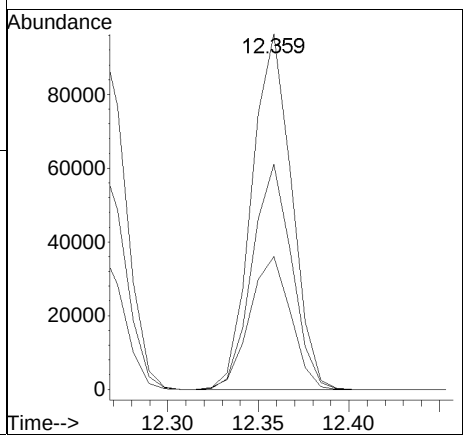


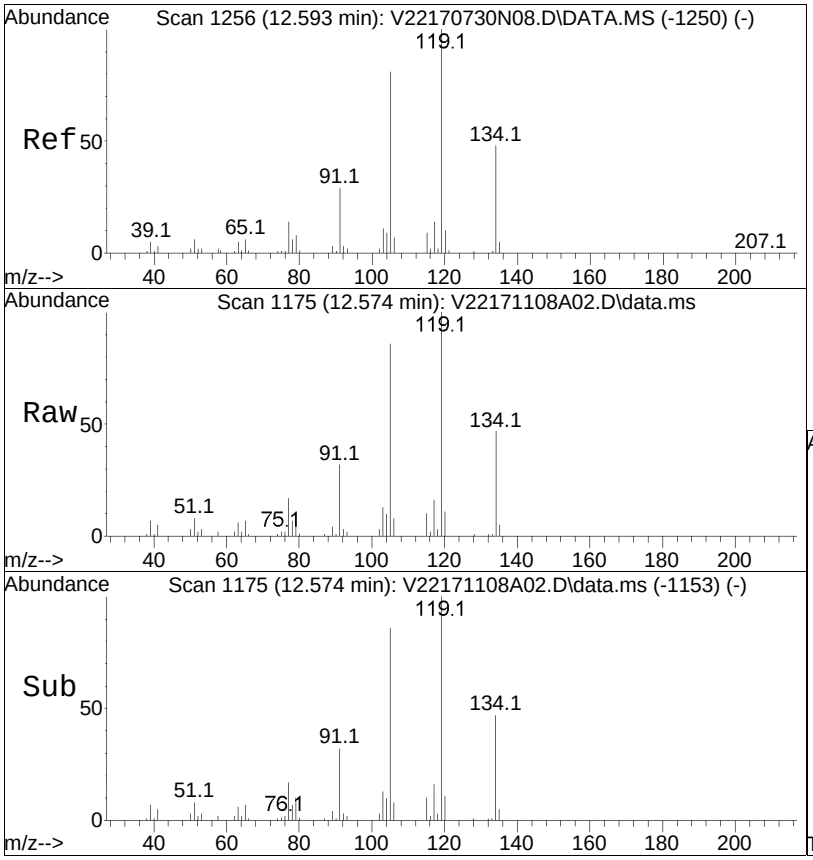


#105
1,4-Dichlorobenzene
Concen: 9.53 ug/L
RT: 12.359 min Scan# 1150
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:146 Resp: 147611

Ion	Ratio	Lower	Upper
146	100		
111	38.6	28.9	43.3
148	62.9	51.4	77.2

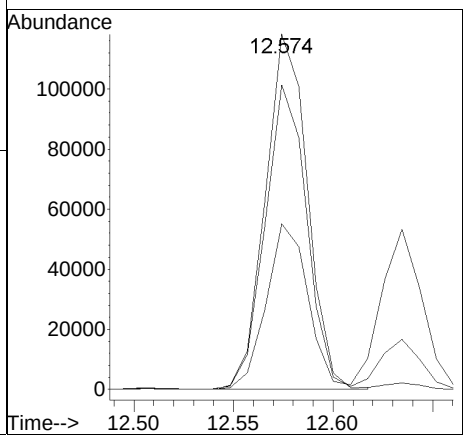


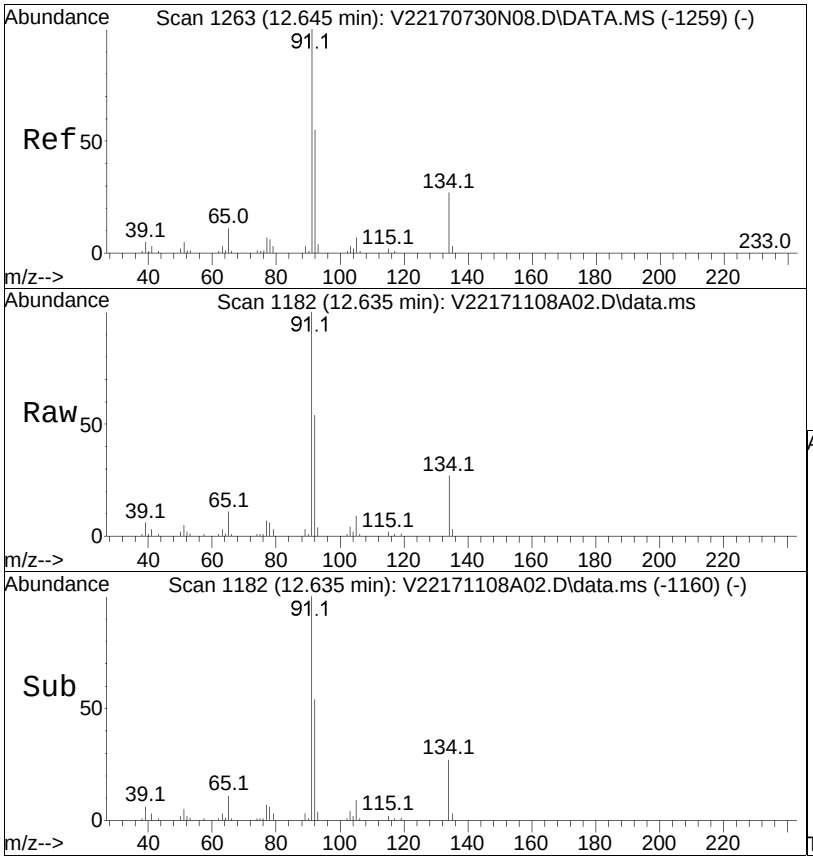


#106
p-Diethylbenzene
Concen: 10.17 ug/L
RT: 12.574 min Scan# 1175
Delta R.T. -0.012 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:119 Resp: 174038

Ion	Ratio	Lower	Upper
119	100		
105	84.7	53.4	110.8
134	46.4	30.9	64.1

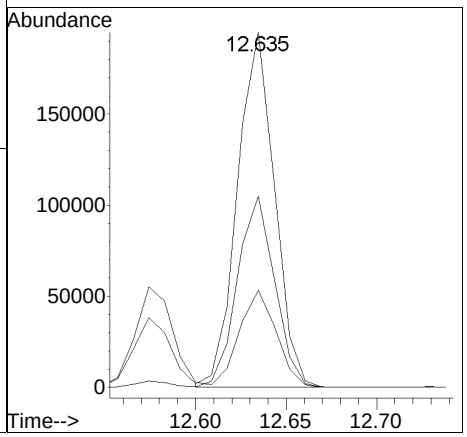


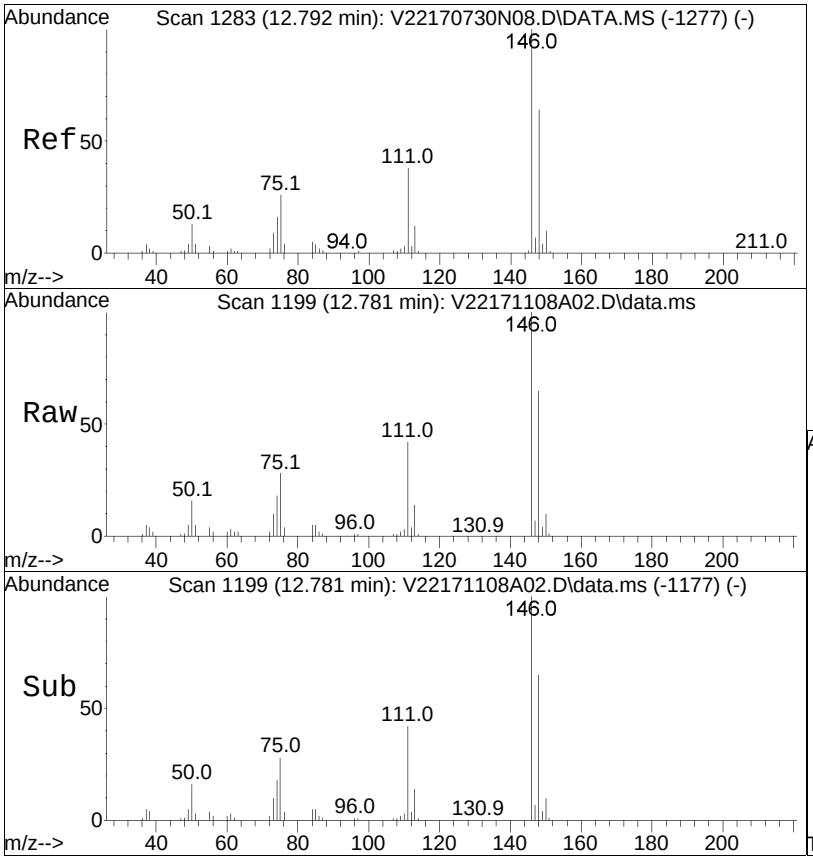


#107
n-Butylbenzene
Concen: 10.78 ug/L
RT: 12.635 min Scan# 1182
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion: 91 Resp: 278146

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.6	66.8
134	27.2	22.9	34.3

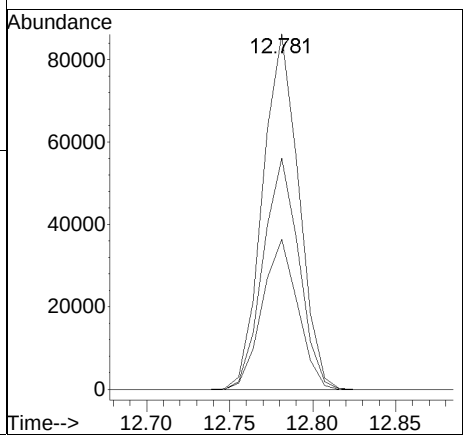


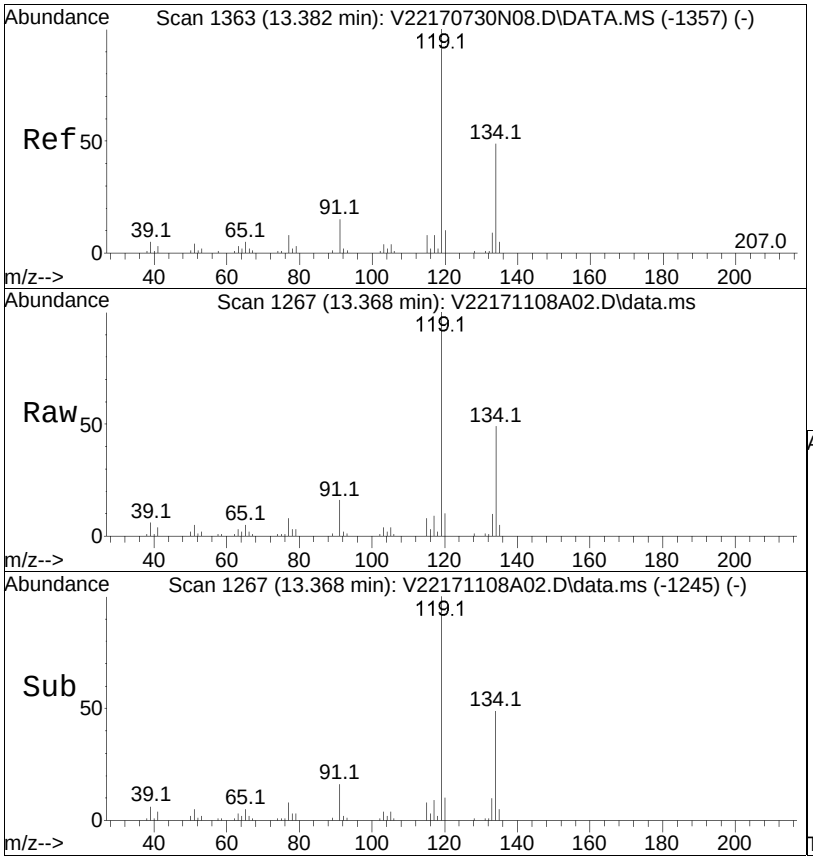


#108
1,2-Dichlorobenzene
Concen: 9.25 ug/L
RT: 12.781 min Scan# 1199
Delta R.T. -0.011 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:146 Resp: 130334

Ion	Ratio	Lower	Upper
146	100		
111	41.7	24.8	51.6
148	64.4	42.2	87.6

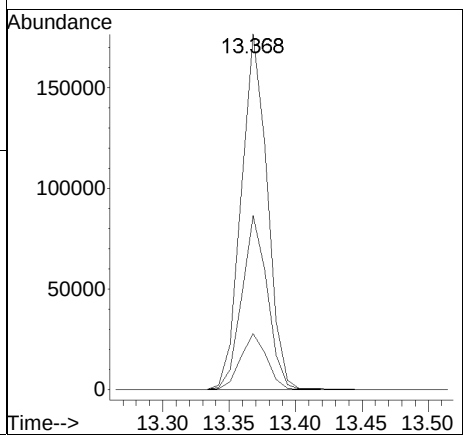


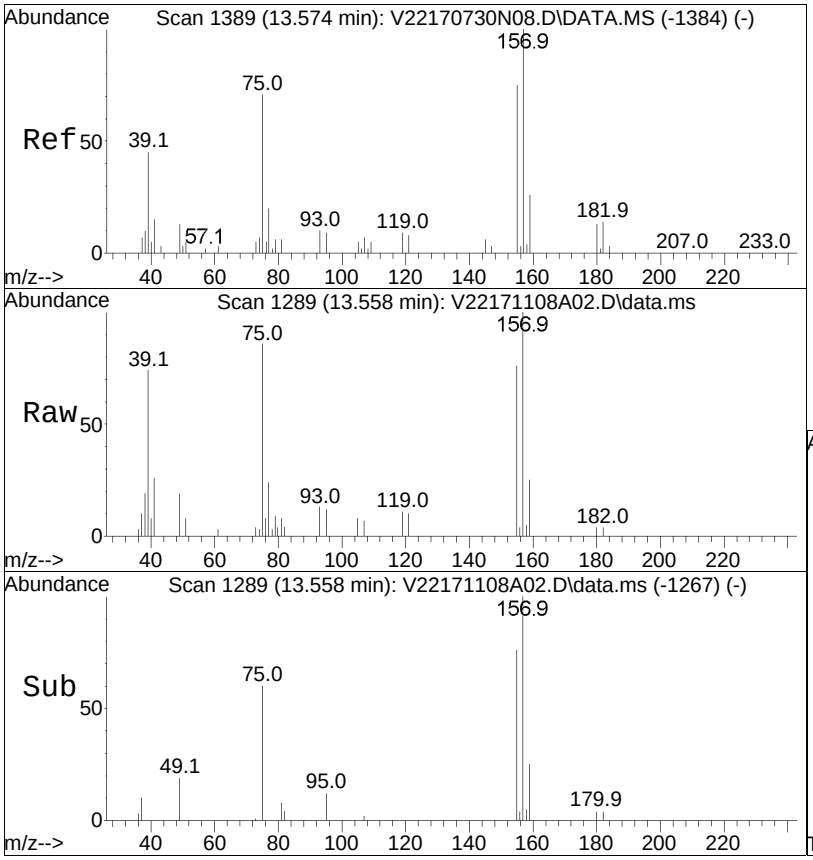


#109
1,2,4,5-Tetramethylbenzene
Concen: 9.52 ug/L
RT: 13.368 min Scan# 1267
Delta R.T. -0.014 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:119 Resp: 240793

Ion	Ratio	Lower	Upper
119	100		
134	48.0	31.9	66.1
91	15.7	9.8	20.3

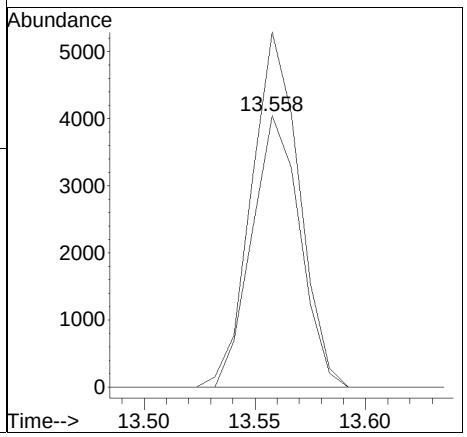


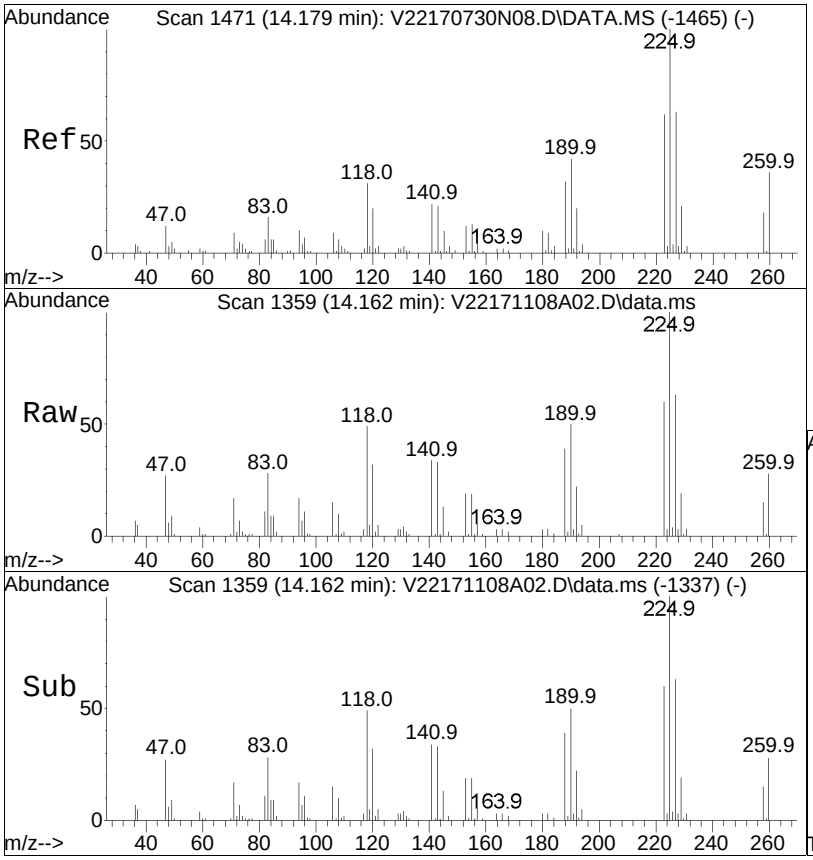


#110
1,2-Dibromo-3-chloropropane
Concen: 7.48 ug/L
RT: 13.558 min Scan# 1289
Delta R.T. -0.009 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:155 Resp: 6135

Ion	Ratio	Lower	Upper
155	100		
157	129.1	102.3	153.5

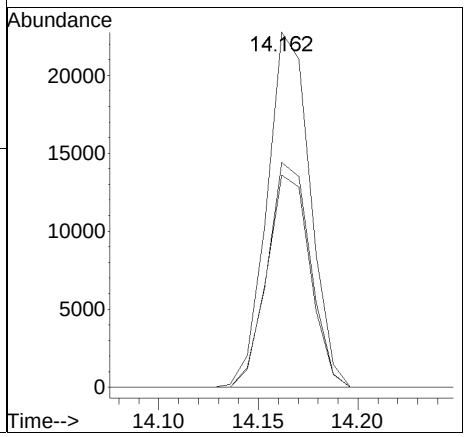


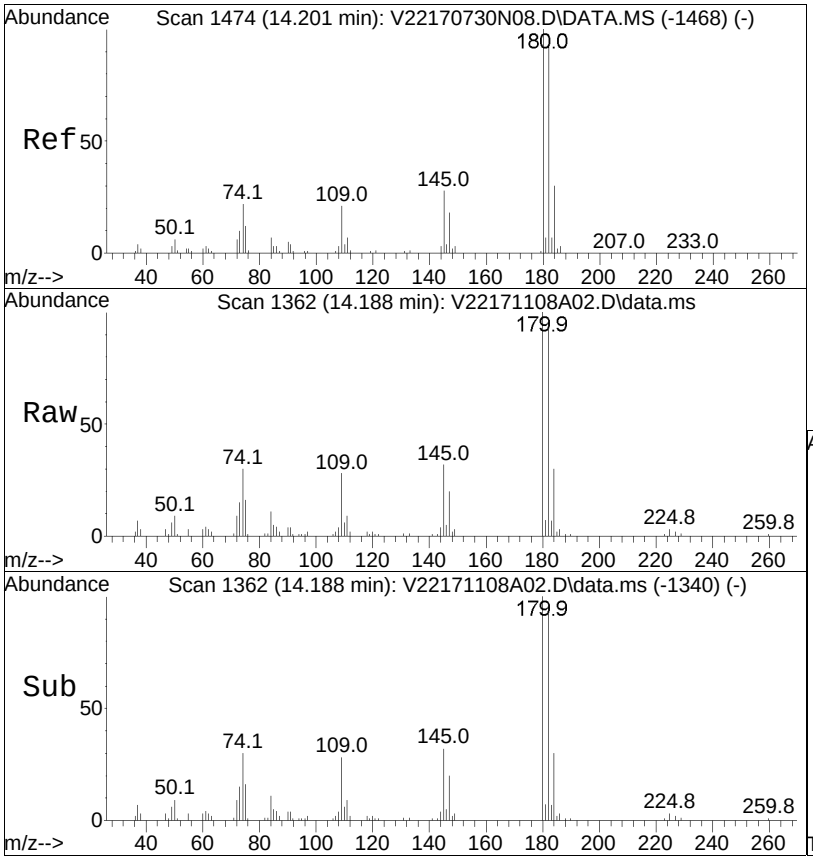


#112
Hexachlorobutadiene
Concen: 6.50 ug/L
RT: 14.162 min Scan# 1359
Delta R.T. -0.010 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:225 Resp: 34306

Ion	Ratio	Lower	Upper
225	100		
223	60.1	49.8	74.8
227	63.2	52.2	78.4

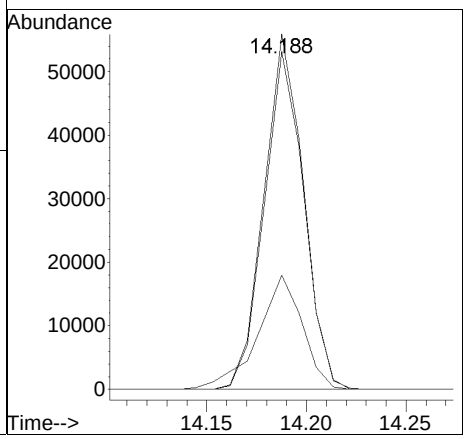


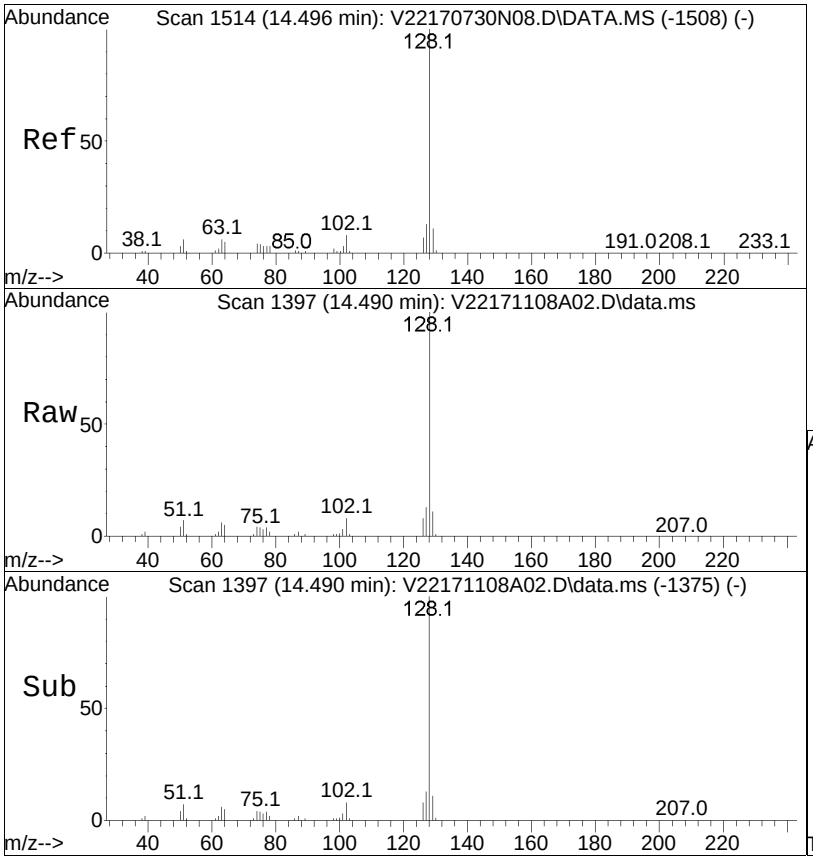


#113
1,2,4-Trichlorobenzene
Concen: 7.44 ug/L
RT: 14.188 min Scan# 1362
Delta R.T. -0.013 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:180 Resp: 77148

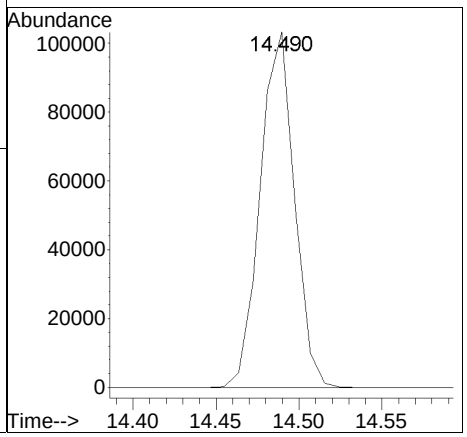
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	114.8
145	36.2	25.5	38.3

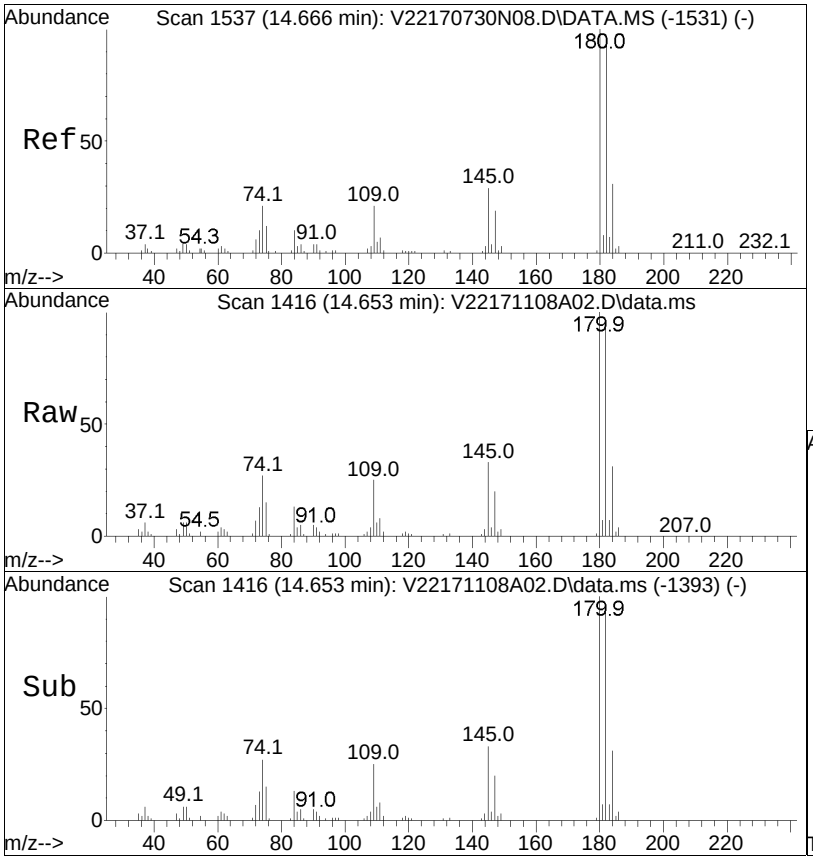




#114
Naphthalene
Concen: 8.09 ug/L
RT: 14.490 min Scan# 1397
Delta R.T. -0.006 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:128 Resp: 148100

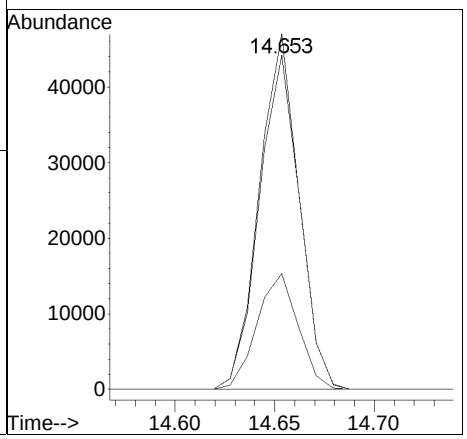




#115
1,2,3-Trichlorobenzene
Concen: 6.97 ug/L
RT: 14.653 min Scan# 1416
Delta R.T. -0.006 min
Lab File: V22171108A02.D
Acq: 08 Nov 2017 08:07 am

Tgt Ion:180 Resp: 65031

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.0	114.0
145	33.9	23.8	35.8

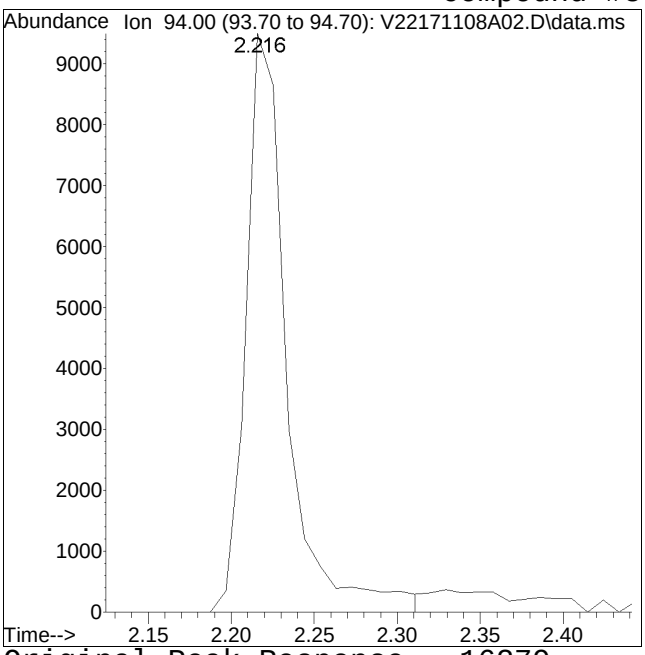


Manual Integration Report

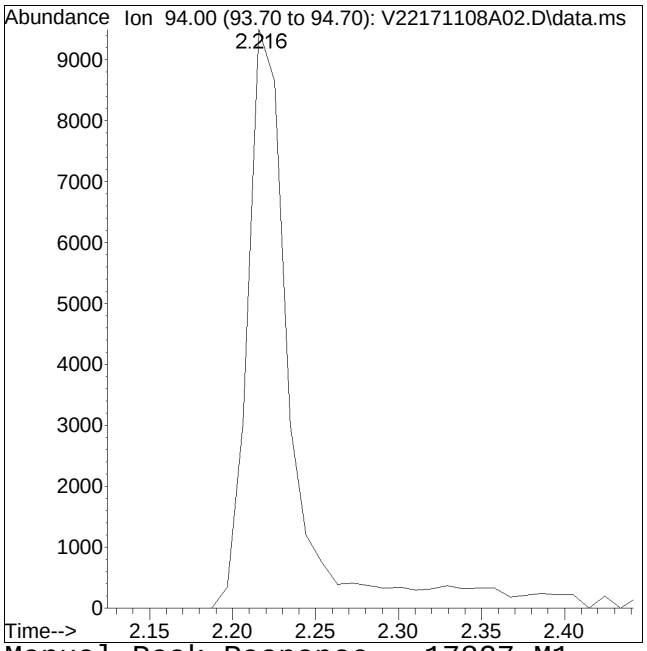
Data Path : I:\VOLATILES\VOA122\2017\1Q
Data File : V22171108A02.D
Date Inj'd : 11/8/2017 8:07 am
Sample : WG1060967-3,31,10,10

Method : V122_170804A_8260.m
Operator : VOA122:PD
Instrument : VOA122
Quant Date : 11/8/2017 8:46 am

Compound #5: Bromomethane



Original Peak Response = 16279



Manual Peak Response = 17827 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-3,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.872	96	327258	10.000	ug/L		0.00
59) Chlorobenzene-d5	9.670	117	249731	10.000	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	12.594	152	115791	10.000	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	5.021	113	77167	10.077	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.77%				
43) 1,2-Dichloroethane-d4	5.572	65	82880	10.989	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.89%				
60) Toluene-d8	7.678	98	330630	9.521	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.21%				
83) 4-Bromofluorobenzene	11.274	95	122152	9.408	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.08%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.501	85	58117	8.568	ug/L		98
3) Chloromethane	1.676	50	95776M1	8.079	ug/L		
4) Vinyl chloride	1.752	62	78570	8.117	ug/L		96
5) Bromomethane	2.036	94	14364	4.583	ug/L		98
6) Chloroethane	2.145	64	35592	9.481	ug/L		94
7) Trichlorofluoromethane	2.276	101	92472	9.180	ug/L		100
8) Ethyl ether	2.560	74	18664	8.215	ug/L	#	50
10) 1,1-Dichloroethene	2.746	96	48970	8.528	ug/L	#	65
11) Carbon disulfide	2.778	76	141351	7.916	ug/L		100
15) Methylene chloride	3.291	84	54118	8.800	ug/L	#	64
17) Acetone	3.340	43	8714	9.092	ug/L		99
18) trans-1,2-Dichloroethene	3.444	96	58685	8.848	ug/L		74
20) Methyl tert-butyl ether	3.537	73	93245	8.725	ug/L	#	84
23) 1,1-Dichloroethane	4.033	63	135272	9.344	ug/L		96
25) Acrylonitrile	4.093	53	10921	9.557	ug/L		95
27) Vinyl acetate	4.279	43	89042	7.963	ug/L	#	92
28) cis-1,2-Dichloroethene	4.568	96	63275	9.019	ug/L	#	77
29) 2,2-Dichloropropane	4.666	77	92470	9.097	ug/L		89
30) Bromochloromethane	4.764	128	22274	9.447	ug/L	#	63
32) Chloroform	4.841	83	106998	9.646	ug/L		97
34) Carbon tetrachloride	4.977	117	85952	9.350	ug/L		98
37) 1,1,1-Trichloroethane	5.043	97	100862	9.605	ug/L		93
39) 2-Butanone	5.157	43	10321M1	8.405	ug/L		
40) 1,1-Dichloropropene	5.174	75	93301	9.389	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-3,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Benzene	5.430	78	254175	9.131	ug/L	#	89
44) 1,2-Dichloroethane	5.648	62	71702	10.309	ug/L		95
48) Trichloroethene	6.063	95	66753	9.530	ug/L		95
50) Dibromomethane	6.532	93	24574	9.772	ug/L		97
51) 1,2-Dichloropropane	6.636	63	74612	9.739	ug/L		94
54) Bromodichloromethane	6.718	83	76769	9.846	ug/L		99
57) 1,4-Dioxane	6.947	88	7053	278.307	ug/L	#	53
58) cis-1,3-Dichloropropene	7.460	75	87670	9.237	ug/L		90
61) Toluene	7.738	92	166209	8.880	ug/L		97
62) 4-Methyl-2-pentanone	8.218	58	10740	8.883	ug/L	#	91
63) Tetrachloroethene	8.224	166	65212	9.053	ug/L		98
65) trans-1,3-Dichloropropene	8.267	75	64928	8.432	ug/L		91
68) 1,1,2-Trichloroethane	8.464	83	30229	9.110	ug/L		97
69) Chlorodibromomethane	8.693	129	40589	8.725	ug/L		96
70) 1,3-Dichloropropane	8.813	76	66646	9.134	ug/L		99
71) 1,2-Dibromoethane	8.993	107	32261	8.987	ug/L		99
72) 2-Hexanone	9.331	43	18117M1	9.165	ug/L		
73) Chlorobenzene	9.691	112	181241	9.274	ug/L		98
74) Ethylbenzene	9.735	91	334252	9.433	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.784	131	56053	9.047	ug/L		98
76) p/m Xylene	9.937	106	261392	19.250	ug/L		87
77) o Xylene	10.510	106	243965	19.863	ug/L		88
78) Styrene	10.581	104	369888	19.383	ug/L		96
80) Bromoform	10.614	173	17577	8.500	ug/L		100
82) Isopropylbenzene	10.919	105	341090	9.230	ug/L		100
84) Bromobenzene	11.394	156	58950	8.985	ug/L		100
85) n-Propylbenzene	11.438	91	402748	9.453	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.536	83	33233	8.706	ug/L		99
88) 4-Ethyltoluene	11.568	105	324880	9.513	ug/L		100
89) 2-Chlorotoluene	11.623	91	229502M1	9.361	ug/L		
90) 1,3,5-Trimethylbenzene	11.678	105	267692	9.214	ug/L		98
91) 1,2,3-Trichloropropane	11.689	75	28642M1	8.929	ug/L		
92) trans-1,4-Dichloro-2-b...	11.749	53	8602M1	7.384	ug/L		
93) 4-Chlorotoluene	11.825	91	227876	9.193	ug/L		94
94) tert-Butylbenzene	12.049	119	225052	9.247	ug/L		93
97) 1,2,4-Trimethylbenzene	12.136	105	262089	9.203	ug/L		99
98) sec-Butylbenzene	12.256	105	324109	9.438	ug/L		99
99) p-Isopropyltoluene	12.425	119	267755	9.437	ug/L		97
100) 1,3-Dichlorobenzene	12.512	146	124010	9.283	ug/L		99
101) 1,4-Dichlorobenzene	12.611	146	121925	9.178	ug/L		99

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-3,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102)	p-Diethylbenzene	12.840	119	146009	9.346	ug/L	99
103)	n-Butylbenzene	12.900	91	231829	9.594	ug/L	98
104)	1,2-Dichlorobenzene	13.085	146	101003	9.075	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.718	119	199866	9.185	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.953	155	3373	8.035	ug/L	100
108)	Hexachlorobutadiene	14.613	225	19974	8.615	ug/L	98
109)	1,2,4-Trichlorobenzene	14.651	180	45233	8.698	ug/L	97
110)	Naphthalene	14.984	128	75504	8.535	ug/L	100
111)	1,2,3-Trichlorobenzene	15.170	180	30475	8.634	ug/L	97

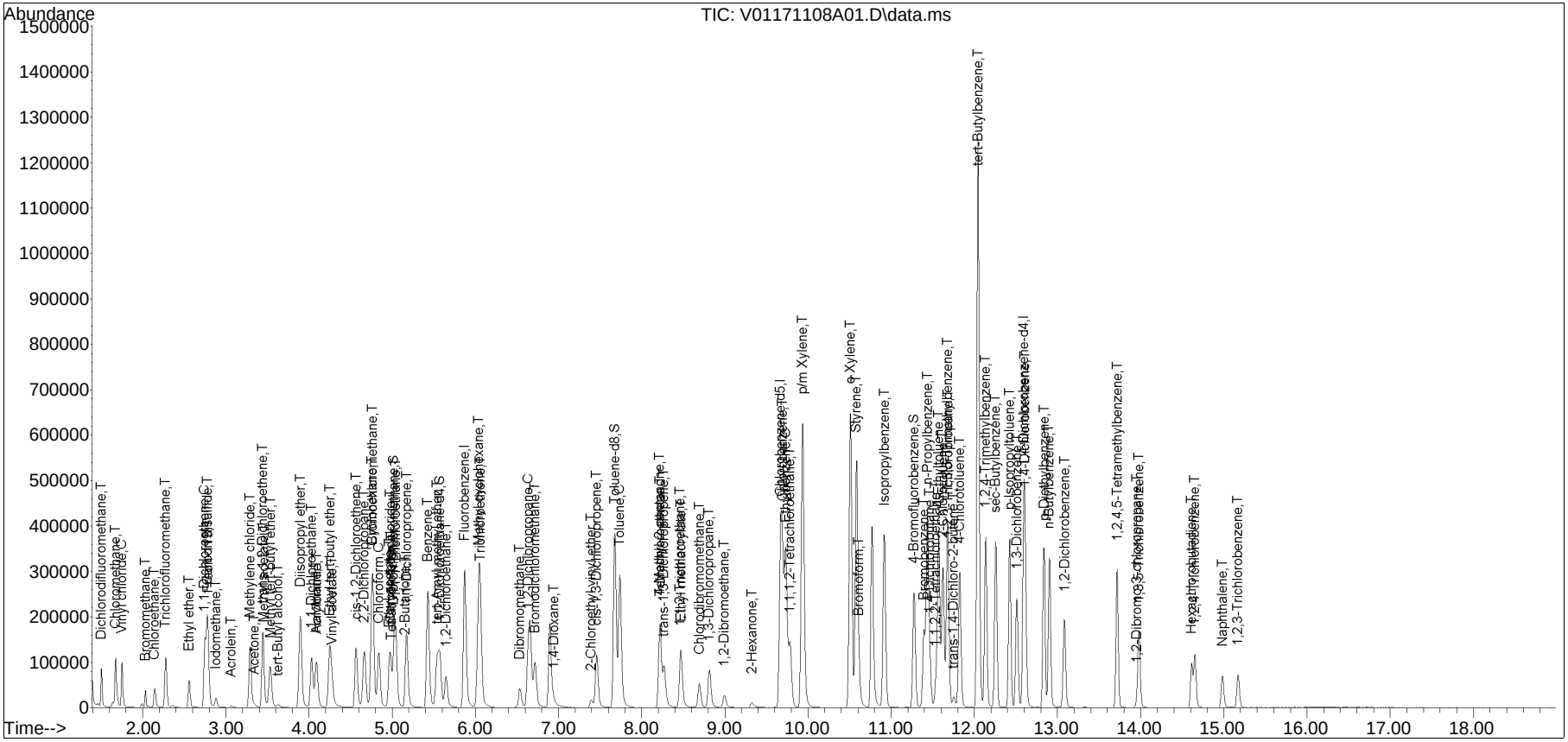
(#) = qualifier out of range (m) = manual integration (+) = signals summed

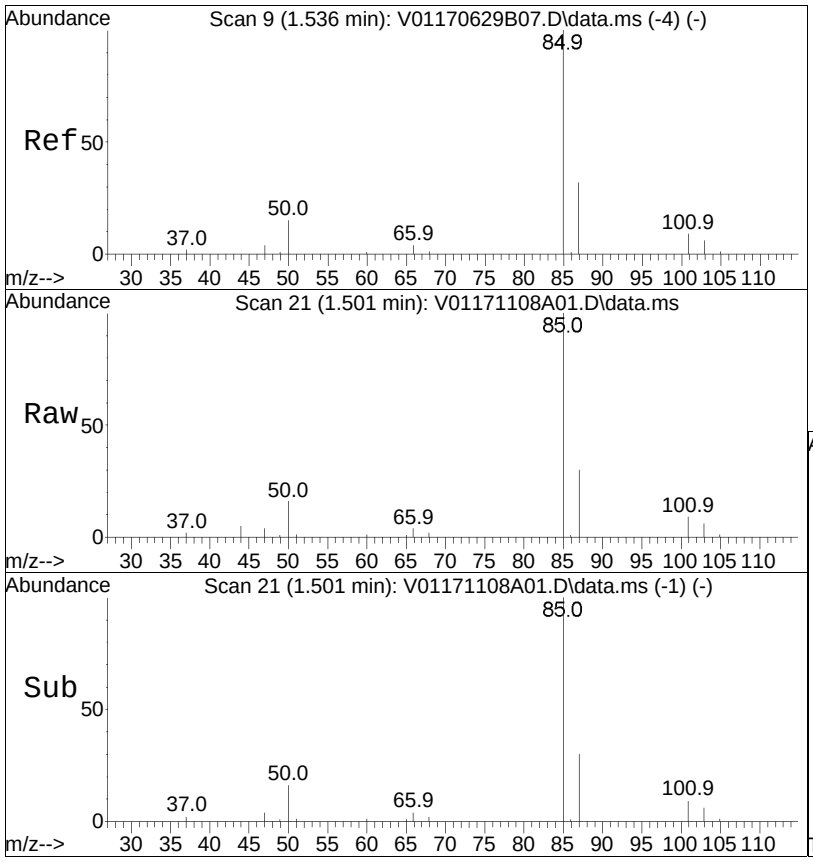
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A01.D
Acq On : 8 Nov 2017 8:10 am
Operator : VOA101:PD
Sample : WG1060957-3,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 08:52:10 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

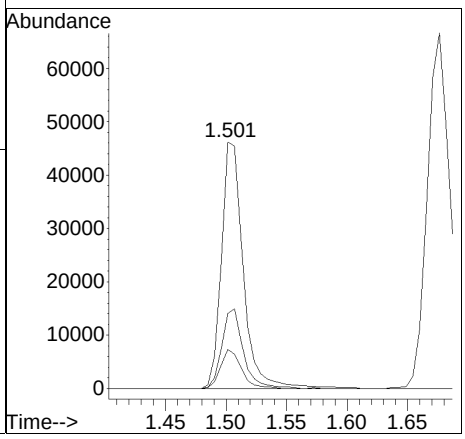


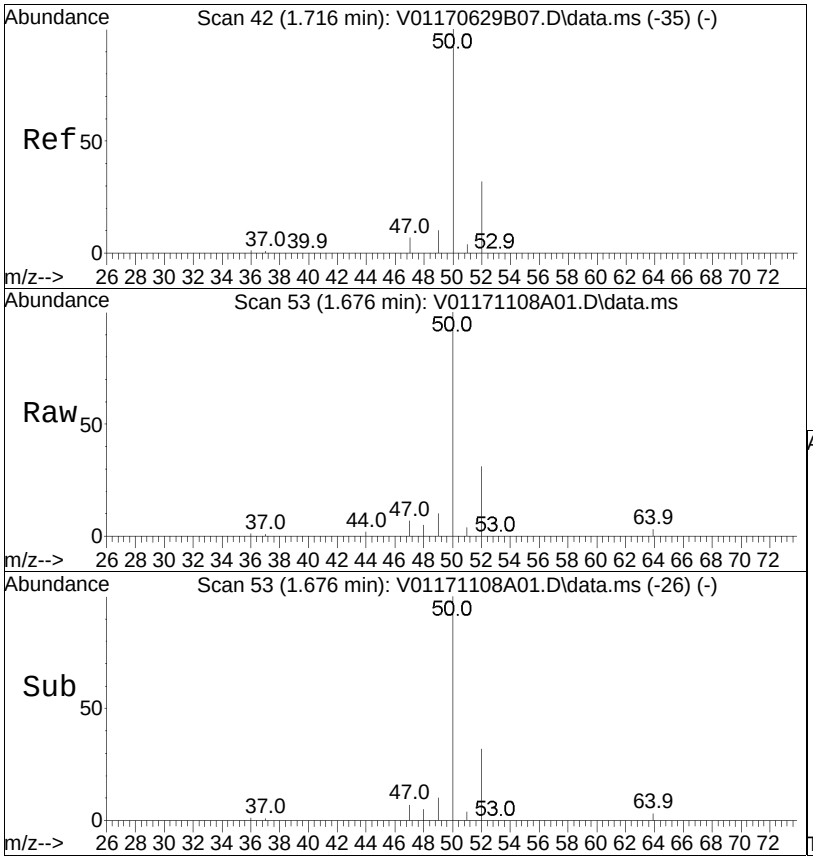


#2
Dichlorodifluoromethane
Concen: 8.57 ug/L
RT: 1.501 min Scan# 21
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 85 Resp: 58117

Ion	Ratio	Lower	Upper
85	100		
87	31.5	20.7	43.1
50	15.0	8.3	17.1

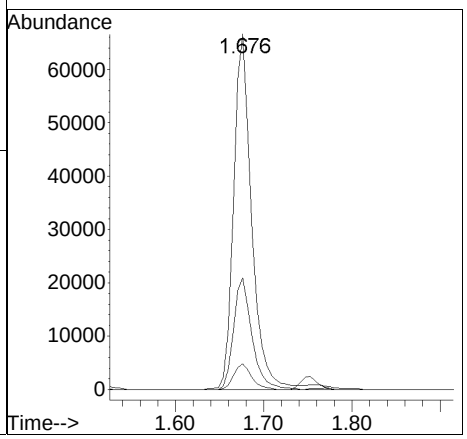


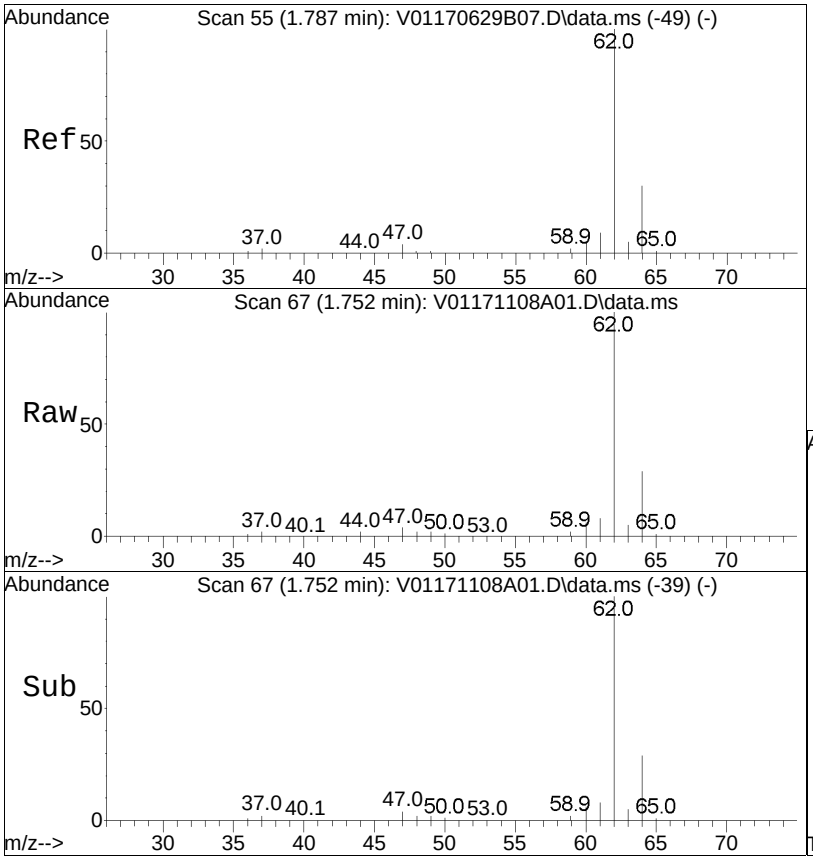


#3
Chloromethane
Concen: 8.08 ug/L M1
RT: 1.676 min Scan# 53
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 50 Resp: 95776

Ion	Ratio	Lower	Upper
50	100		
52	31.4	13.3	53.3
47	7.0	0.0	28.0

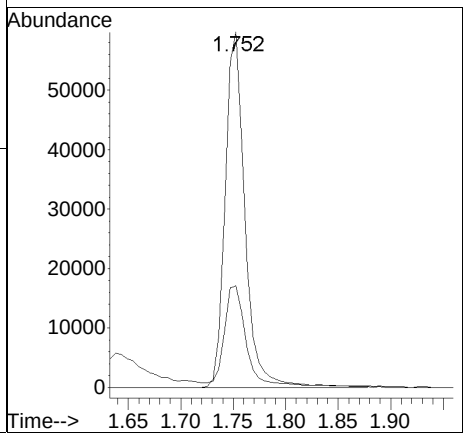


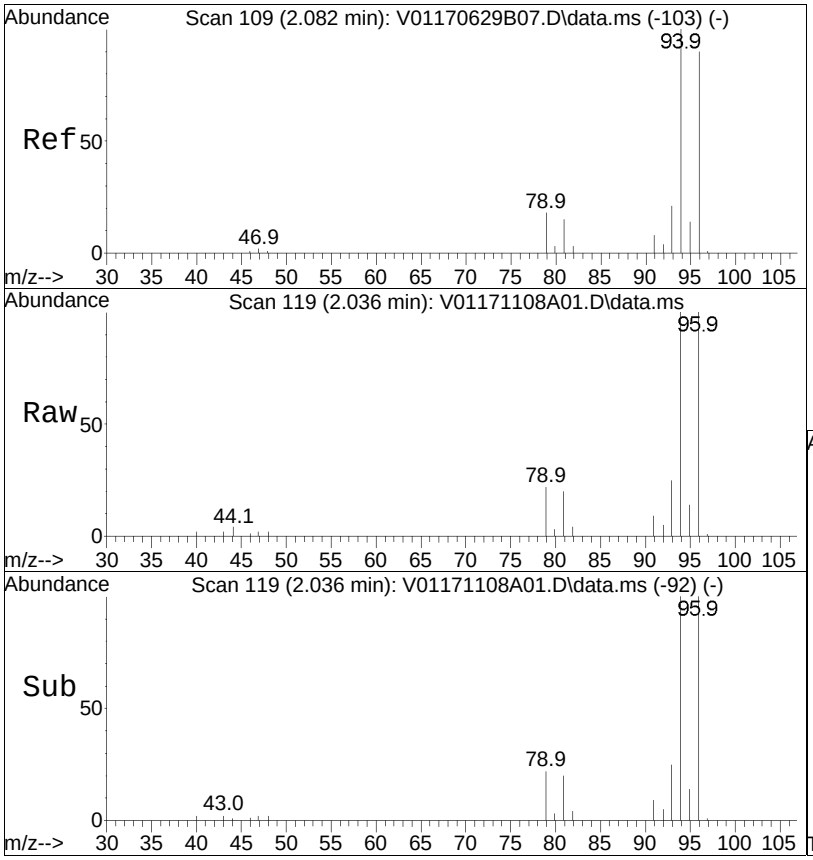


#4
Vinyl chloride
Concen: 8.12 ug/L
RT: 1.752 min Scan# 67
Delta R.T. 0.003 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 62 Resp: 78570

Ion	Ratio	Lower	Upper
62	100		
64	30.1	12.3	52.3

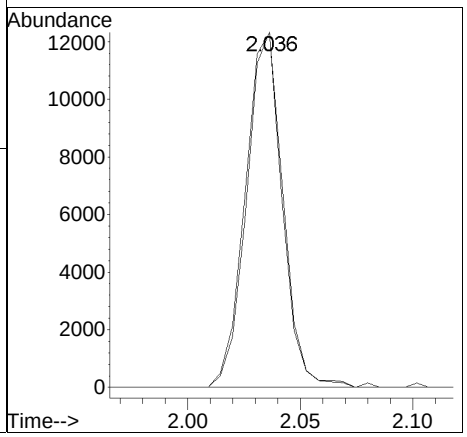


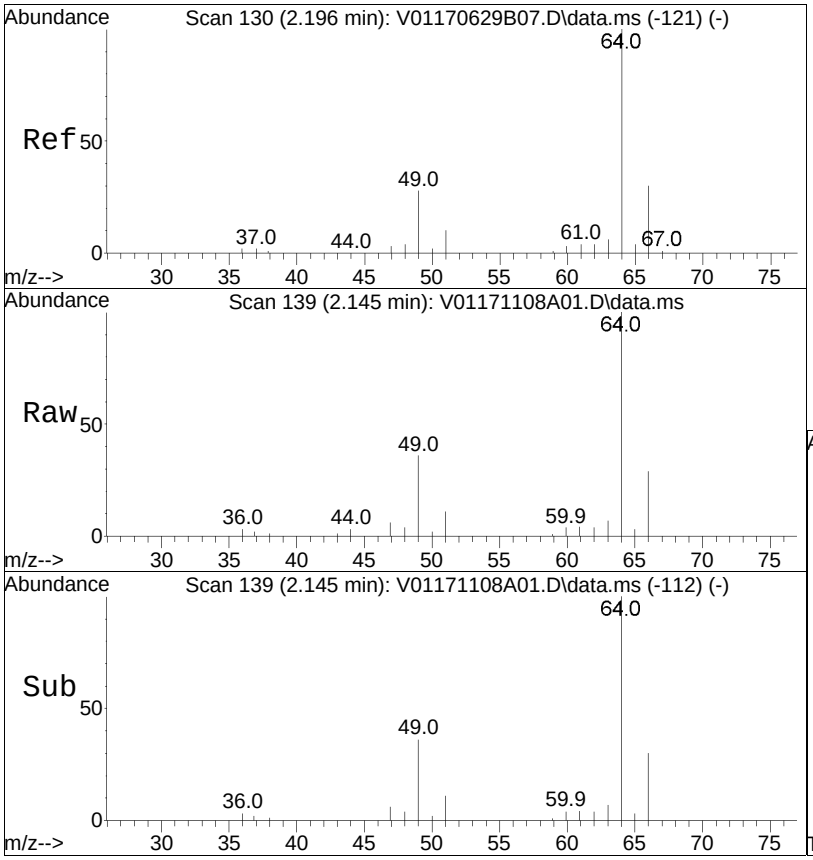


#5
Bromomethane
Concen: 4.58 ug/L
RT: 2.036 min Scan# 119
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 94 Resp: 14364

Ion	Ratio	Lower	Upper
94	100		
96	94.5	73.0	113.0

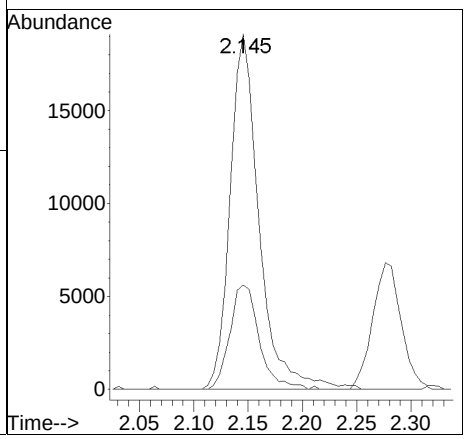


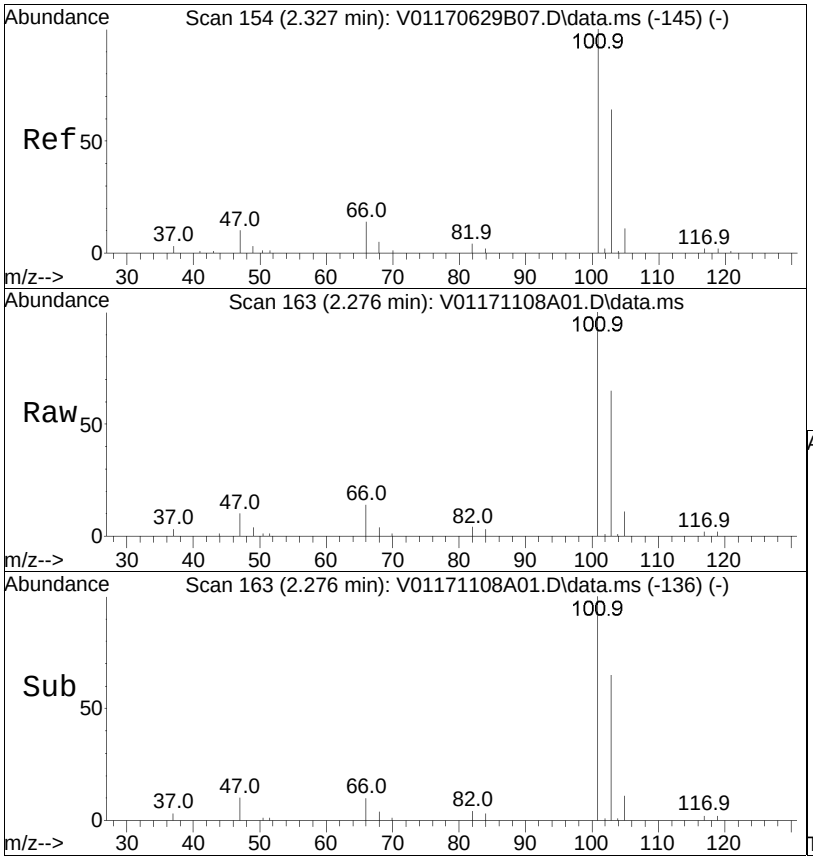


#6
Chloroethane
Concen: 9.48 ug/L
RT: 2.145 min Scan# 139
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 64 Resp: 35592

Ion	Ratio	Lower	Upper
64	100		
66	29.9	13.0	53.0

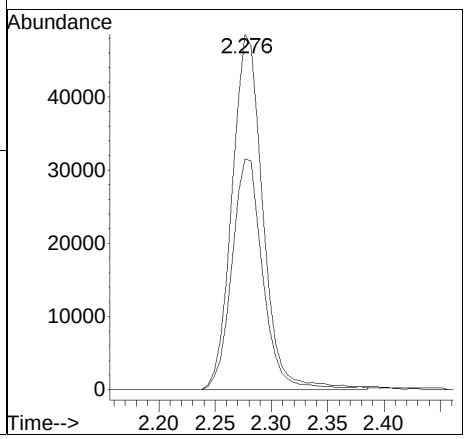


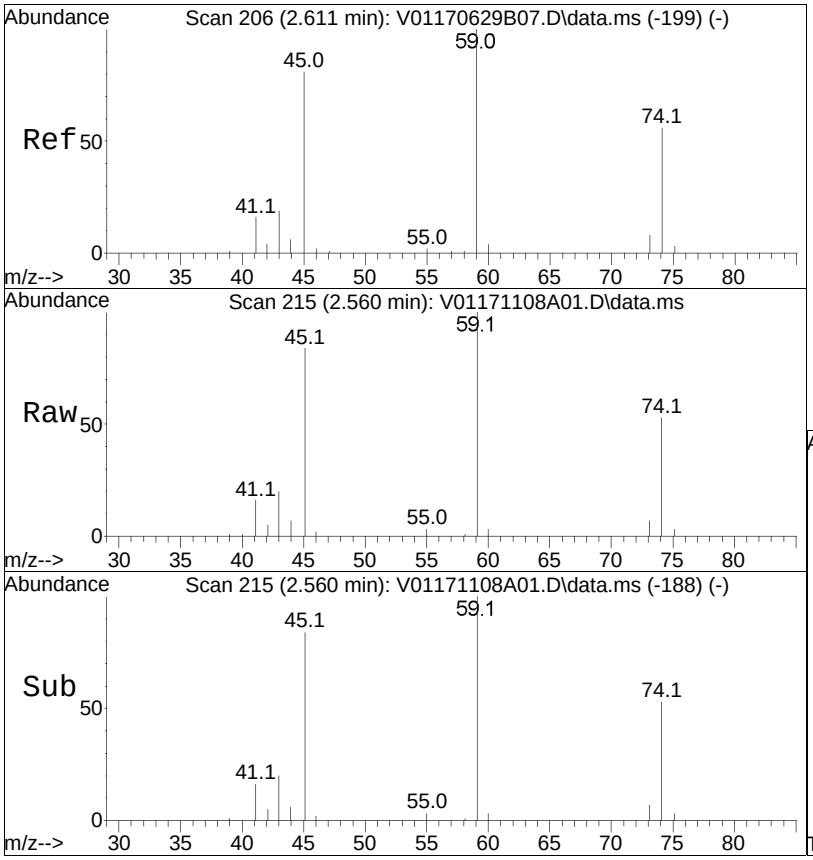


#7
Trichlorofluoromethane
Concen: 9.18 ug/L
RT: 2.276 min Scan# 163
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:101 Resp: 92472

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.8	77.6

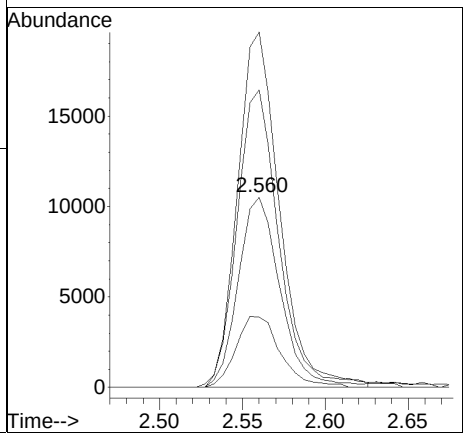


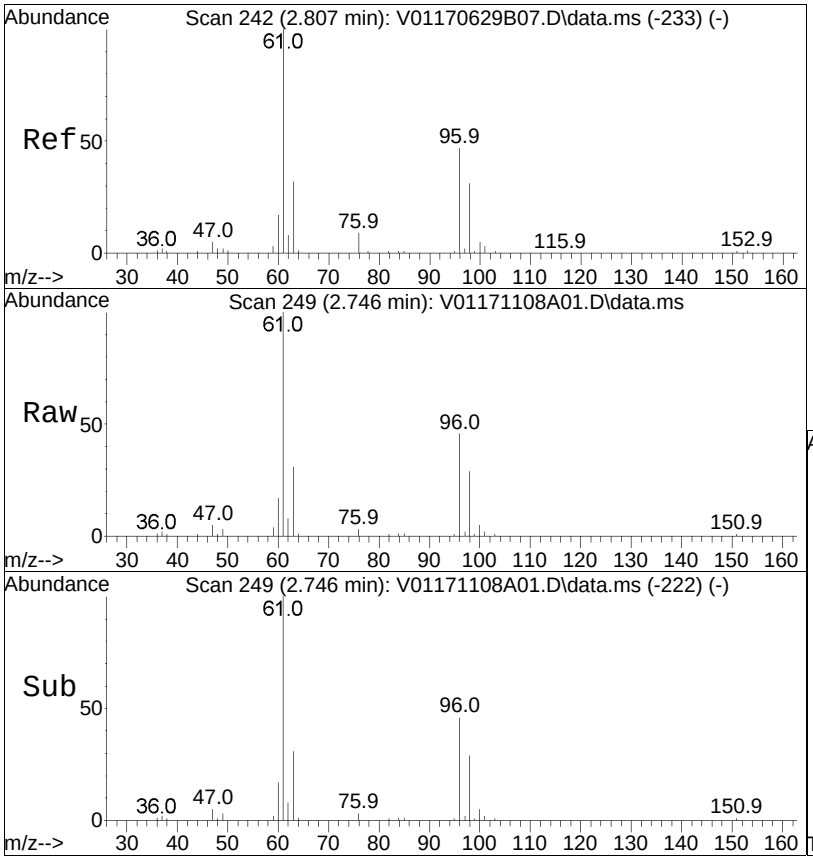


#8
Ethyl ether
Concen: 8.22 ug/L
RT: 2.560 min Scan# 215
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 74 Resp: 18664

Ion	Ratio	Lower	Upper
74	100		
59	187.7	84.2	175.0#
45	157.7	63.8	132.6#
43	39.5	19.5	40.5

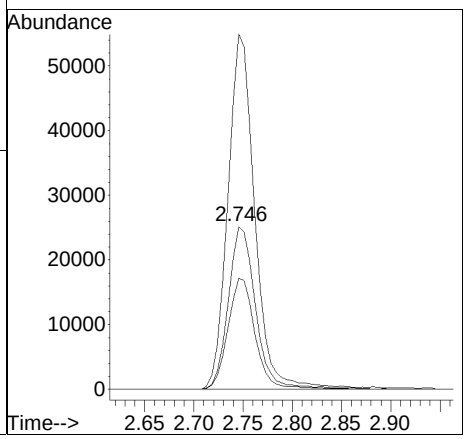


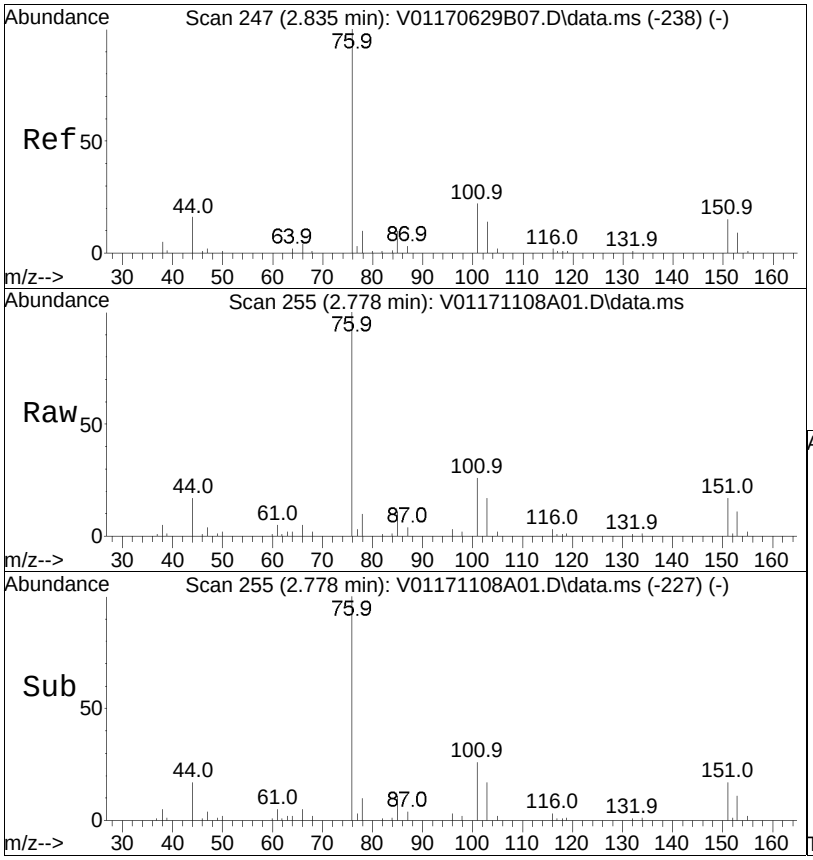


#10
1,1-Dichloroethene
Concen: 8.53 ug/L
RT: 2.746 min Scan# 249
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 96 Resp: 48970

Ion	Ratio	Lower	Upper
96	100		
61	213.3	129.4	194.2#
63	67.9	41.4	62.2#

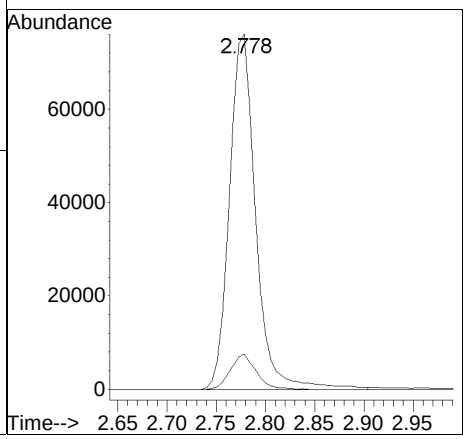


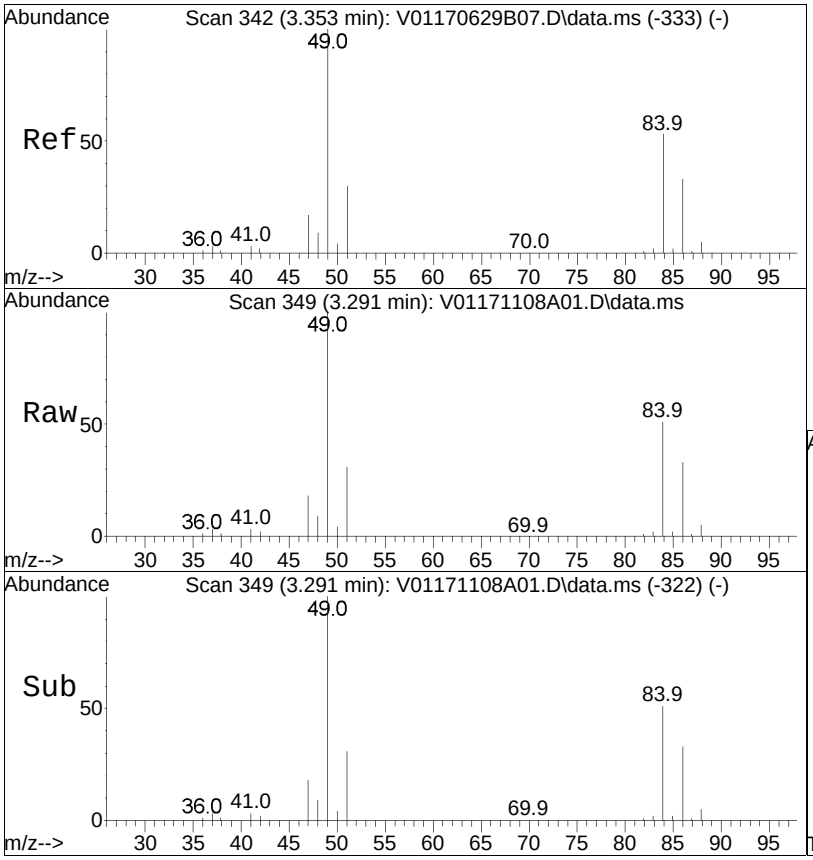


#11
Carbon disulfide
Concen: 7.92 ug/L
RT: 2.778 min Scan# 255
Delta R.T. 0.004 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 76 Resp: 141351

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.3	13.1

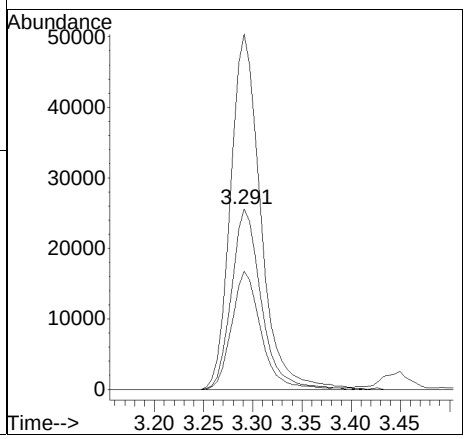


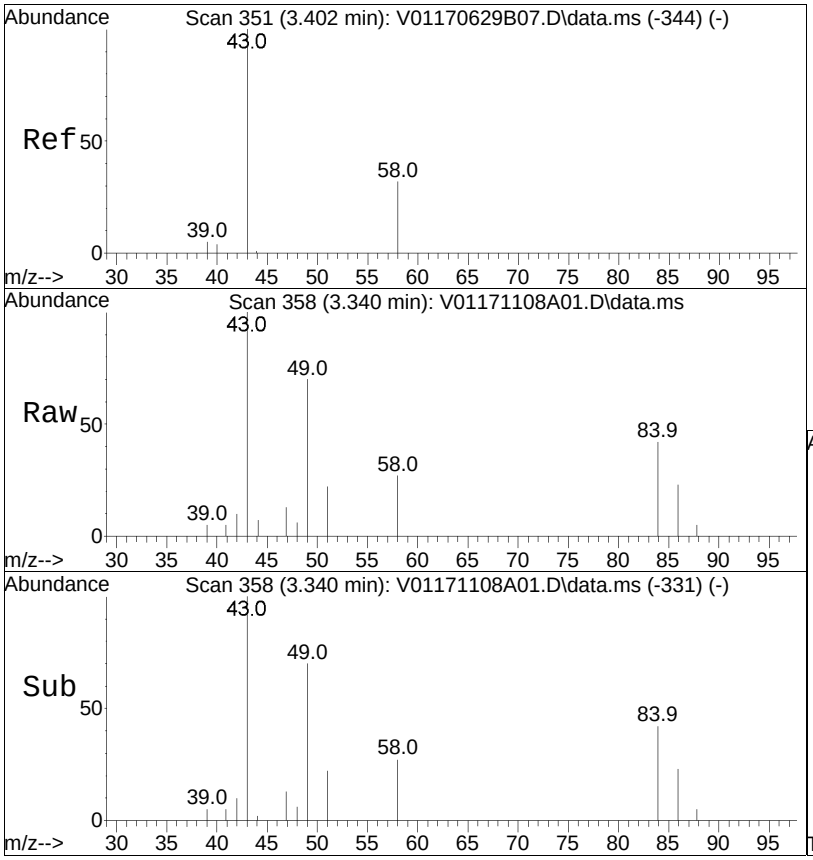


#15
Methylene chloride
Concen: 8.80 ug/L
RT: 3.291 min Scan# 349
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 84 Resp: 54118

Ion	Ratio	Lower	Upper
84	100		
86	64.4	41.0	85.2
49	198.4	88.5	183.9#

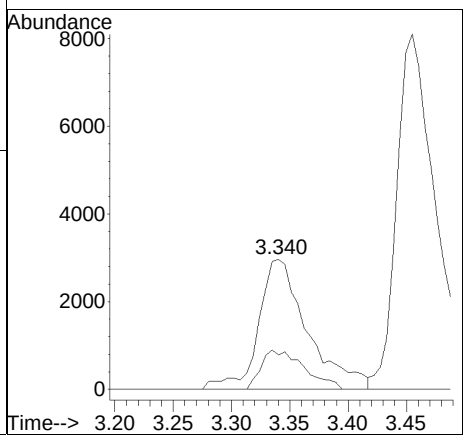


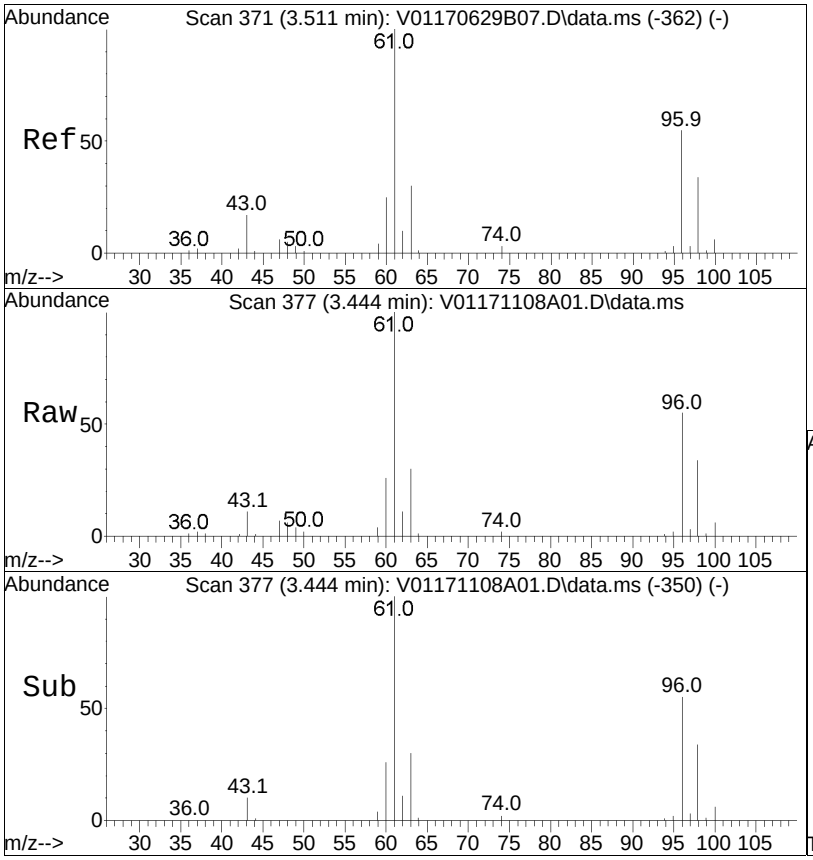


#17
Acetone
Concen: 9.09 ug/L
RT: 3.340 min Scan# 358
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 43 Resp: 8714

Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.8	32.6

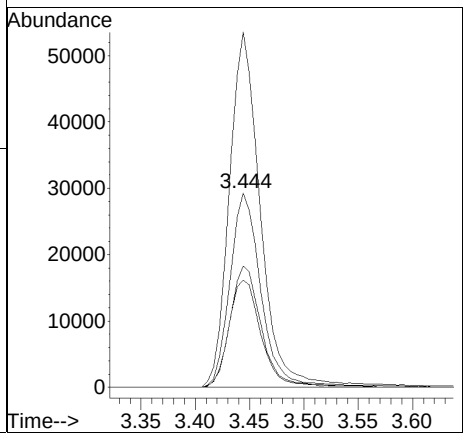


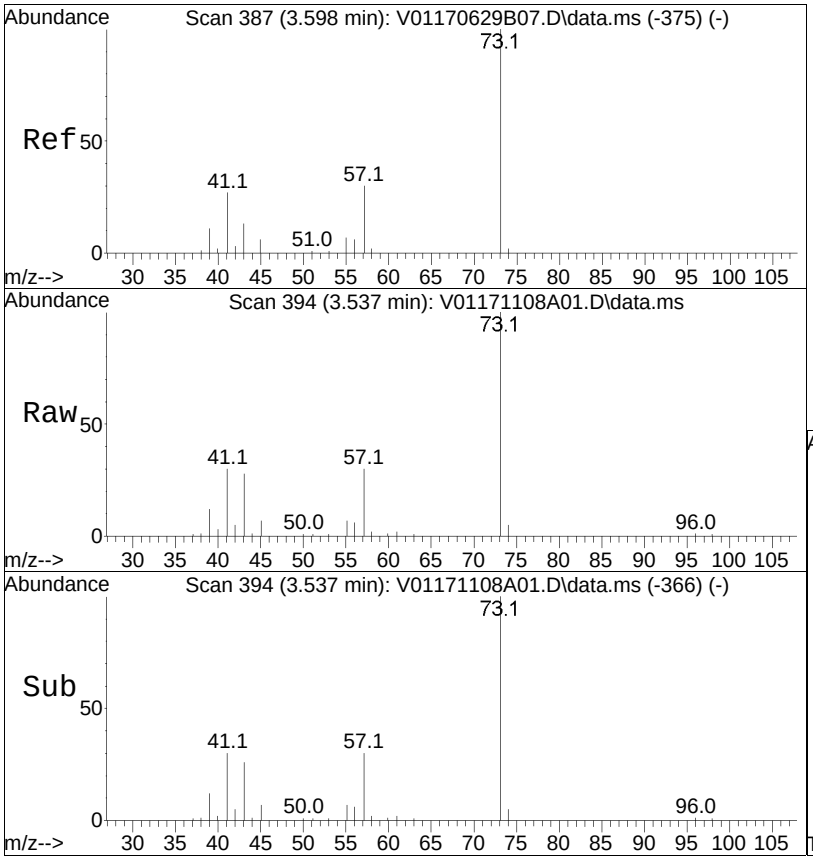


#18
trans-1,2-Dichloroethene
Concen: 8.85 ug/L
RT: 3.444 min Scan# 377
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 96 Resp: 58685

Ion	Ratio	Lower	Upper
96	100		
61	182.8	88.2	183.2
98	62.7	40.8	84.6
63	57.7	28.4	59.0

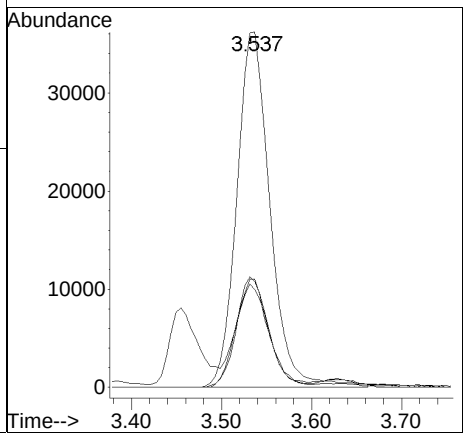


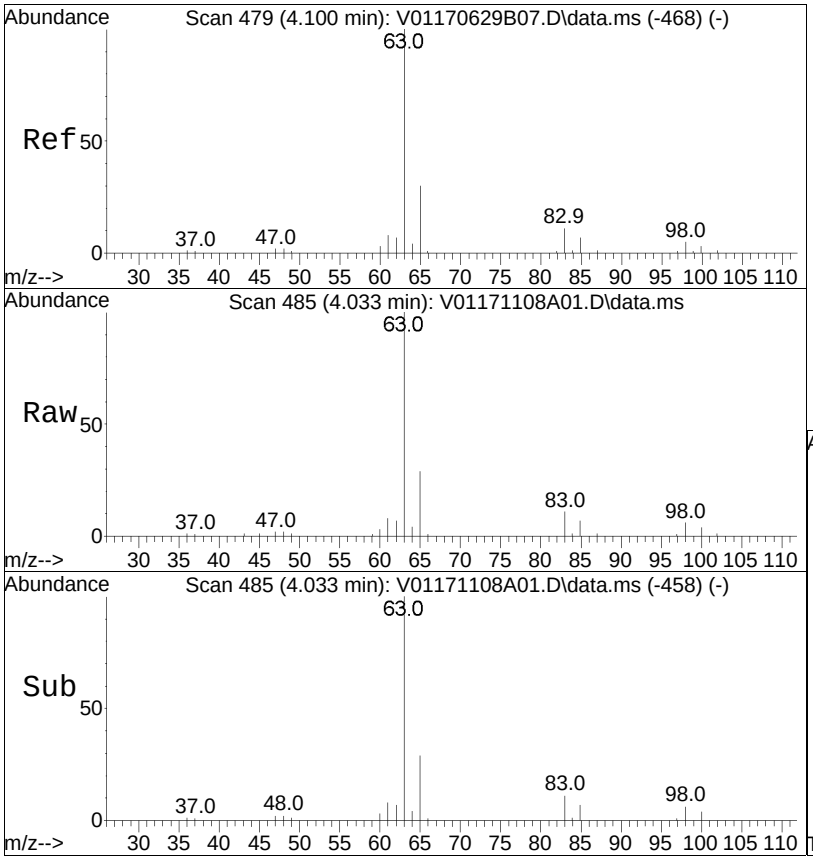


#20
Methyl tert-butyl ether
Concen: 8.72 ug/L
RT: 3.537 min Scan# 394
Delta R.T. 0.004 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 73 Resp: 93245

Ion	Ratio	Lower	Upper
73	100		
57	30.0	13.8	28.8#
43	27.5	14.8	30.8
41	30.1	13.8	28.6#

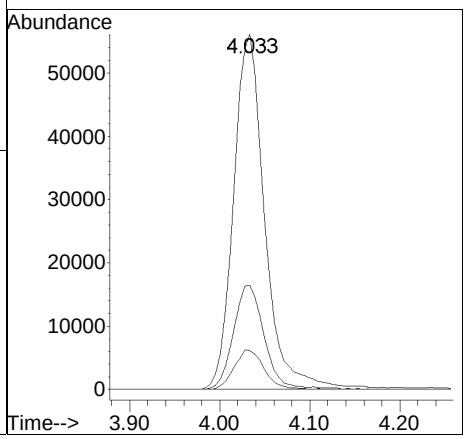


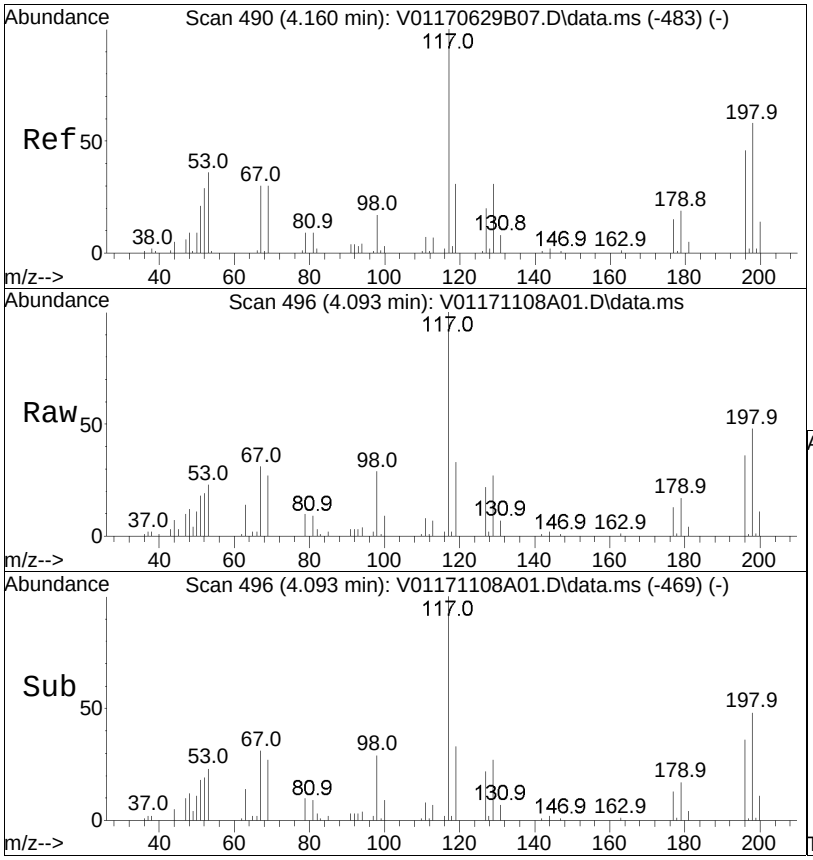


#23
1,1-Dichloroethane
Concen: 9.34 ug/L
RT: 4.033 min Scan# 485
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 63 Resp: 135272

Ion	Ratio	Lower	Upper
63	100		
65	29.0	10.5	50.5
83	10.7	0.0	33.2

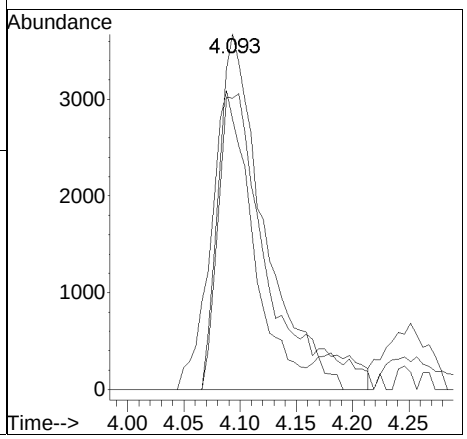


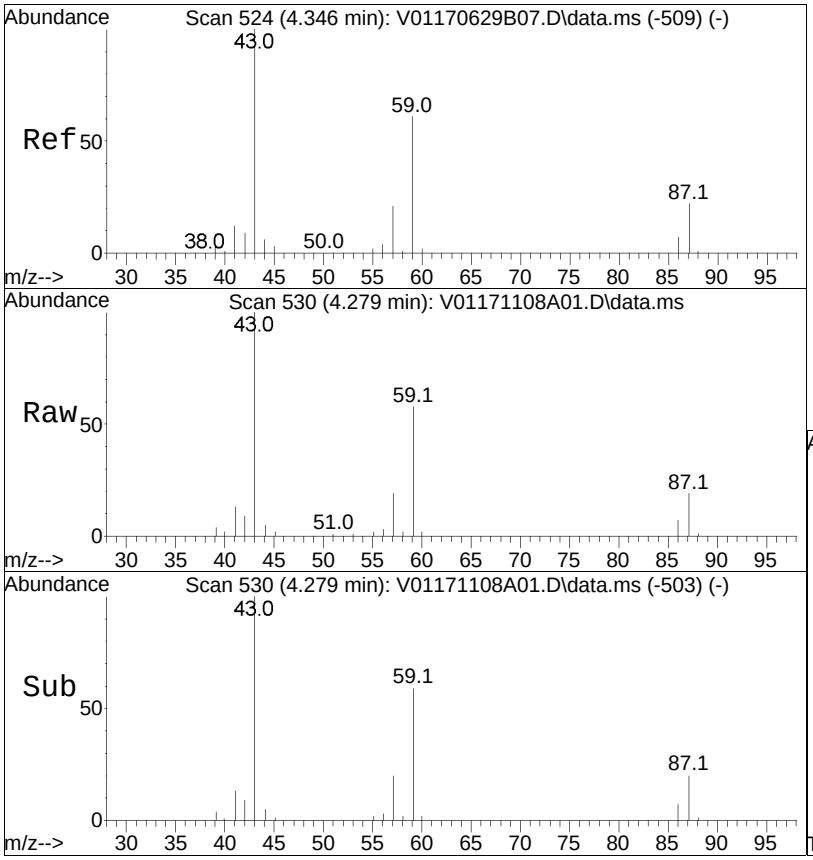


#25
Acrylonitrile
Concen: 9.56 ug/L
RT: 4.093 min Scan# 496
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 53 Resp: 10921

Ion	Ratio	Lower	Upper
53	100		
52	85.9	63.4	95.0
51	74.6	58.7	88.1

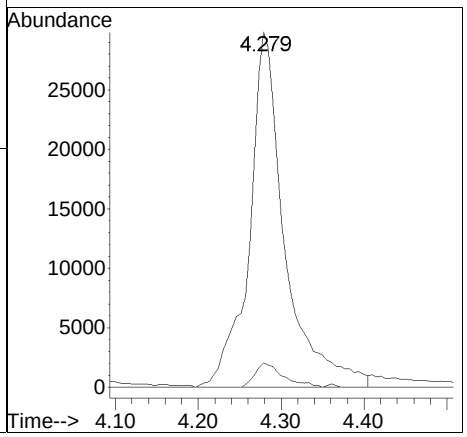


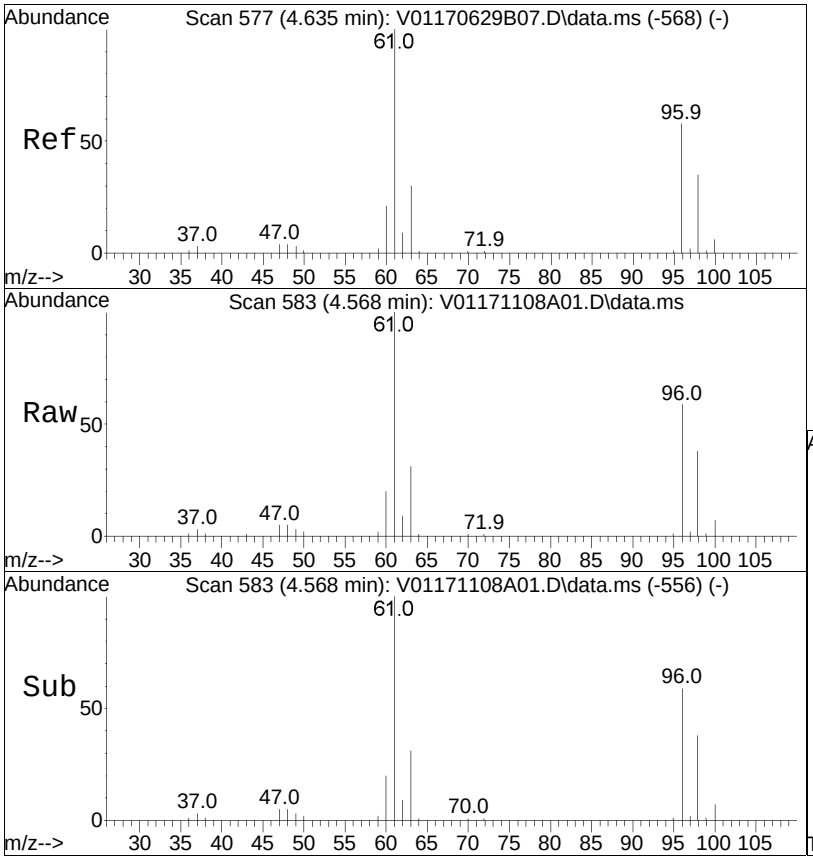


#27
Vinyl acetate
Concen: 7.96 ug/L
RT: 4.279 min Scan# 530
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 43 Resp: 89042

Ion	Ratio	Lower	Upper
43	100		
86	5.5	6.6	9.8#

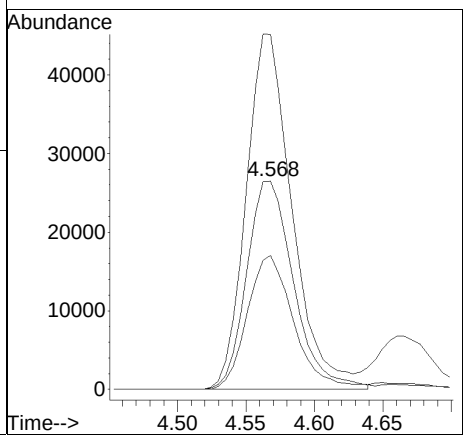


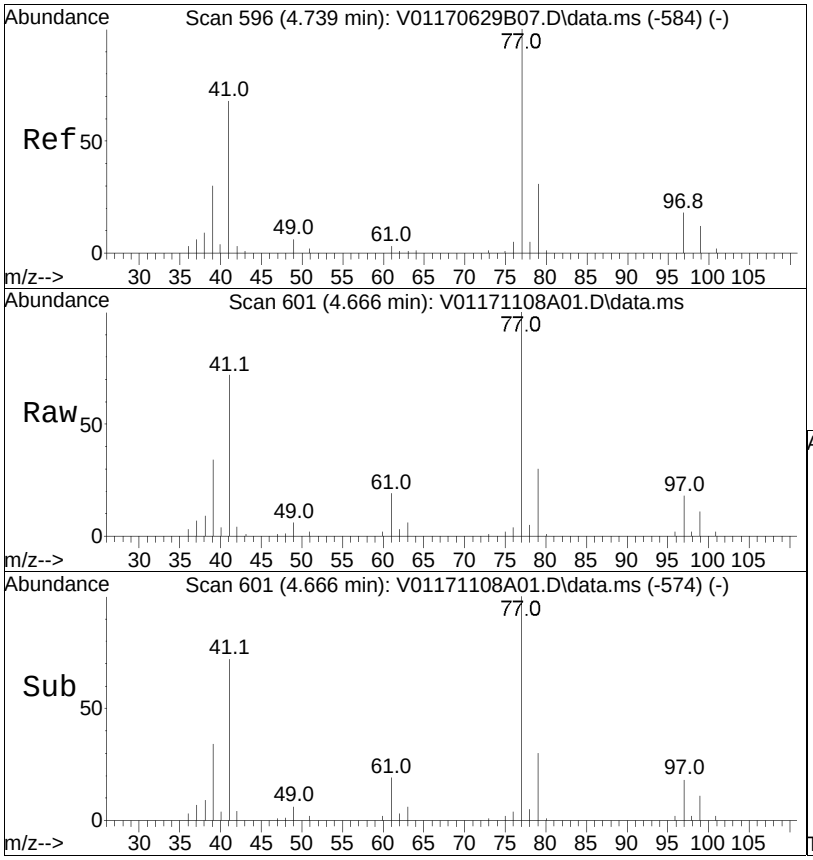


#28
cis-1,2-Dichloroethene
Concen: 9.02 ug/L
RT: 4.568 min Scan# 583
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 96 Resp: 63275

Ion	Ratio	Lower	Upper
96	100		
61	166.0	101.4	152.0#
98	63.9	50.2	75.4

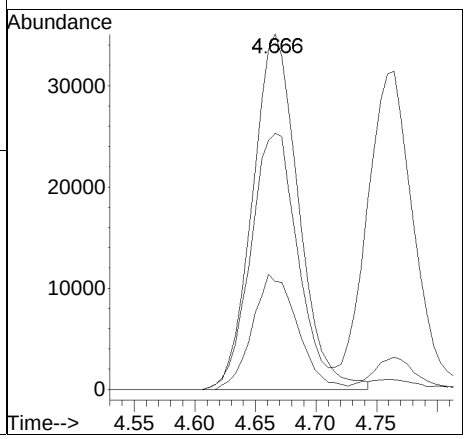


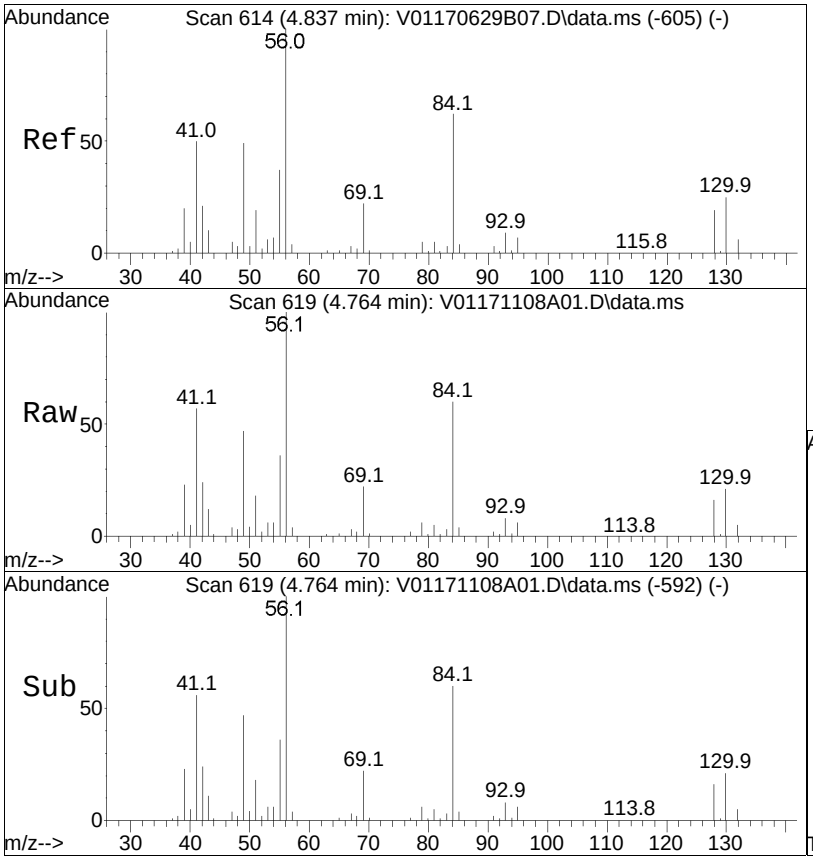


#29
2,2-Dichloropropane
Concen: 9.10 ug/L
RT: 4.666 min Scan# 601
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 77 Resp: 92470

Ion	Ratio	Lower	Upper
77	100		
41	73.4	39.6	82.3
79	31.9	20.8	43.2

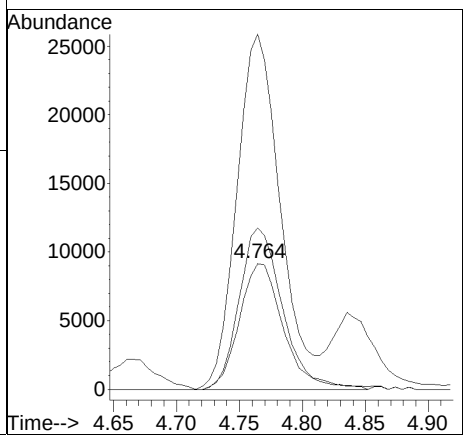


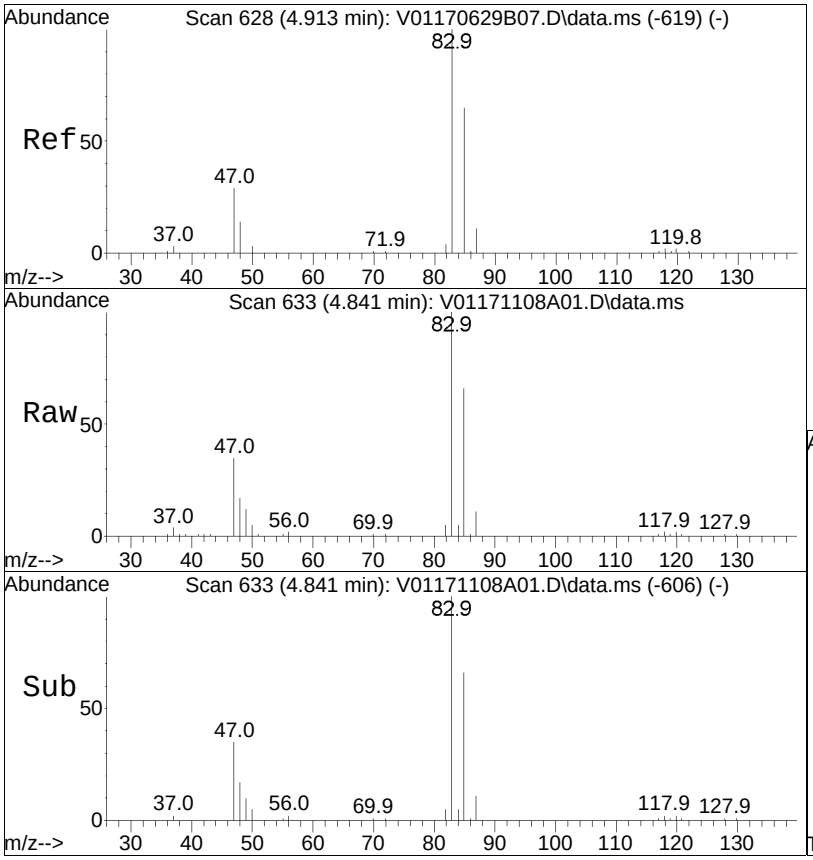


#30
Bromochloromethane
Concen: 9.45 ug/L
RT: 4.764 min Scan# 619
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:128 Resp: 22274

Ion	Ratio	Lower	Upper
128	100		
49	278.1	152.2	228.2#
130	127.5	105.8	158.6

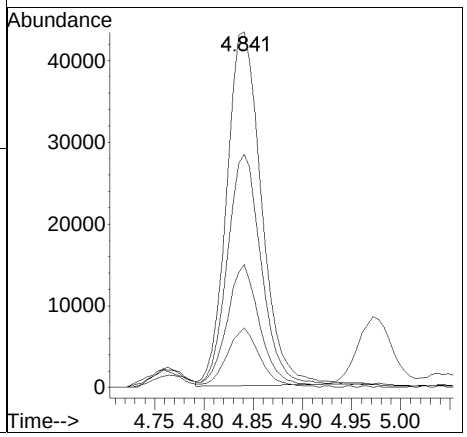


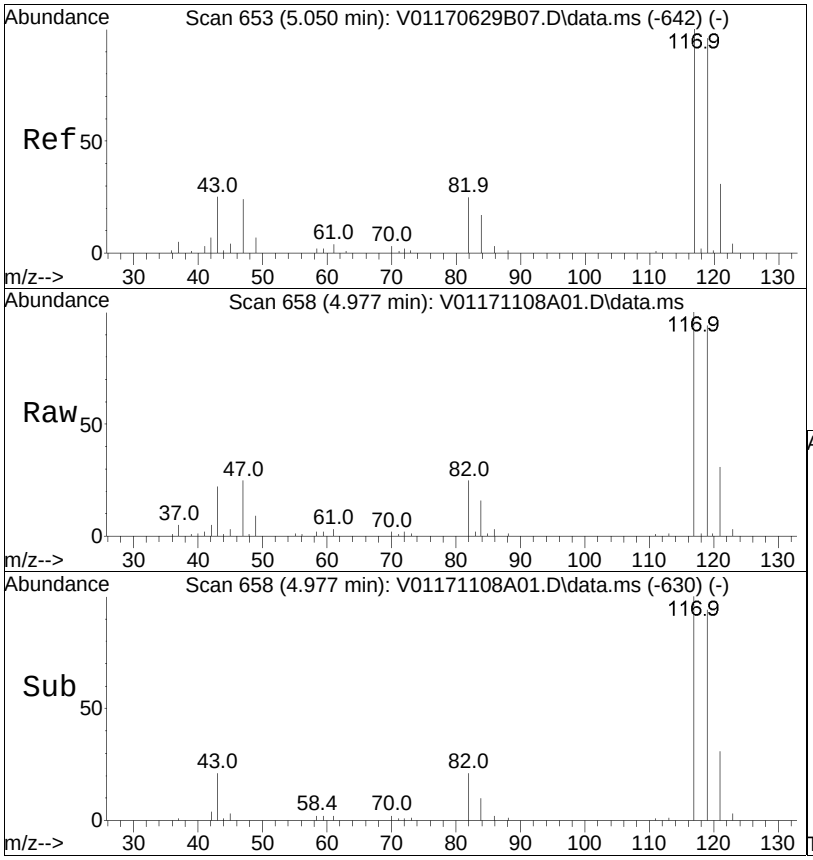


#32
Chloroform
Concen: 9.65 ug/L
RT: 4.841 min Scan# 633
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 83 Resp: 106998

Ion	Ratio	Lower	Upper
83	100		
85	63.8	42.0	87.2
47	31.6	17.6	36.6
48	16.1	9.4	19.4

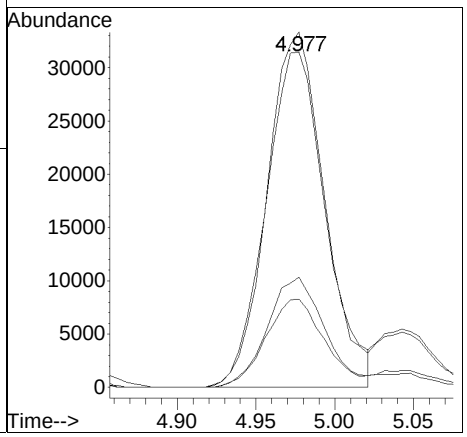


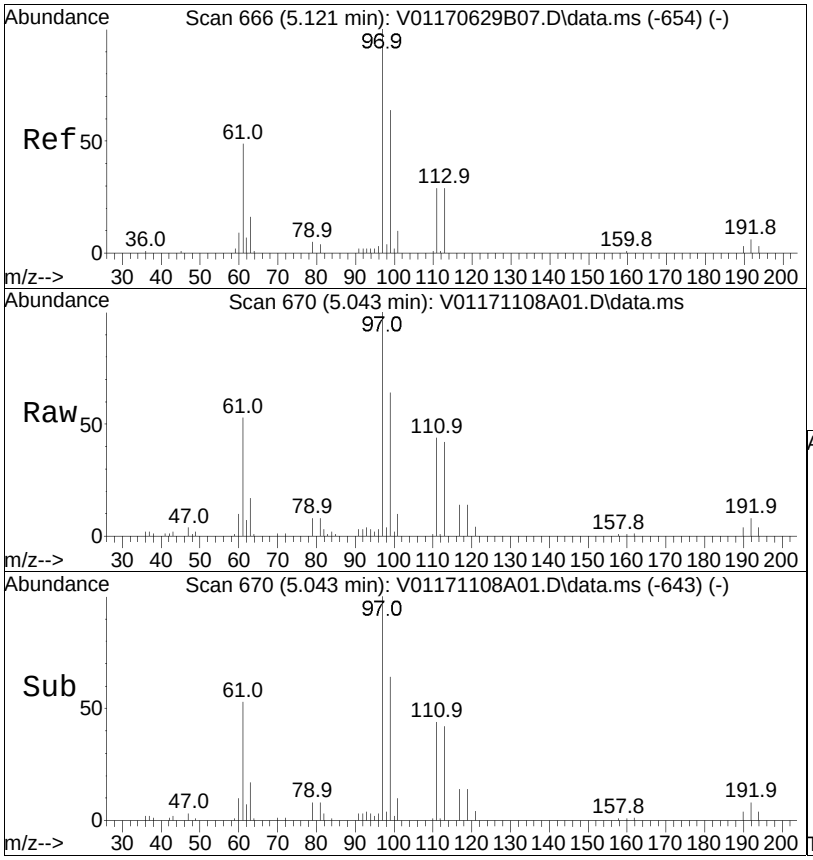


#34
Carbon tetrachloride
Concen: 9.35 ug/L
RT: 4.977 min Scan# 658
Delta R.T. 0.004 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:117 Resp: 85952

Ion	Ratio	Lower	Upper
117	100		
119	95.0	62.5	129.9
121	30.5	19.9	41.3
82	25.4	18.2	37.8

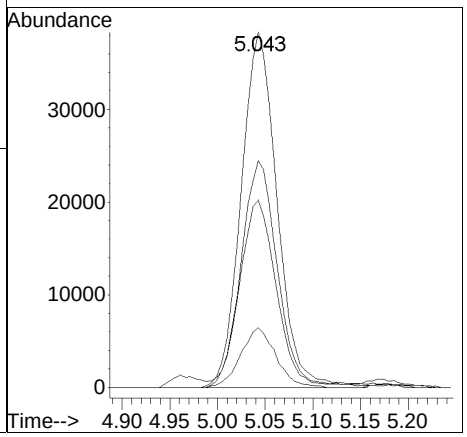


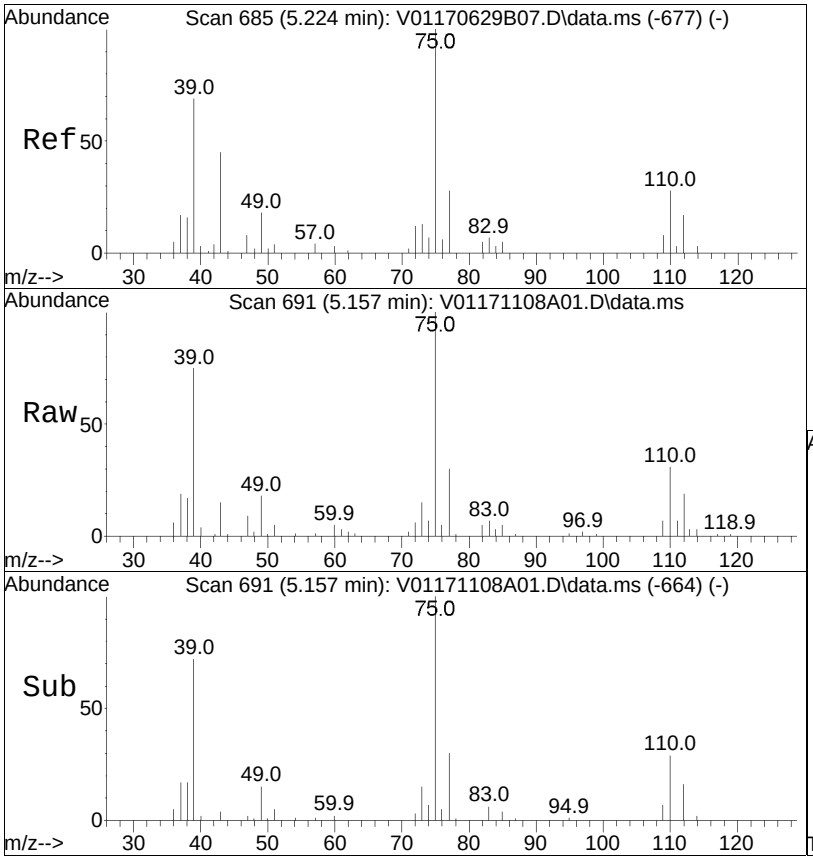


#37
1,1,1-Trichloroethane
Concen: 9.60 ug/L
RT: 5.043 min Scan# 670
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 97 Resp: 100862

Ion	Ratio	Lower	Upper
97	100		
99	64.5	40.8	84.8
61	51.7	28.0	58.2
63	16.3	9.4	19.4

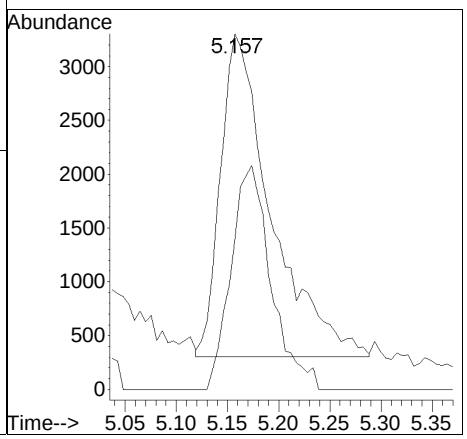


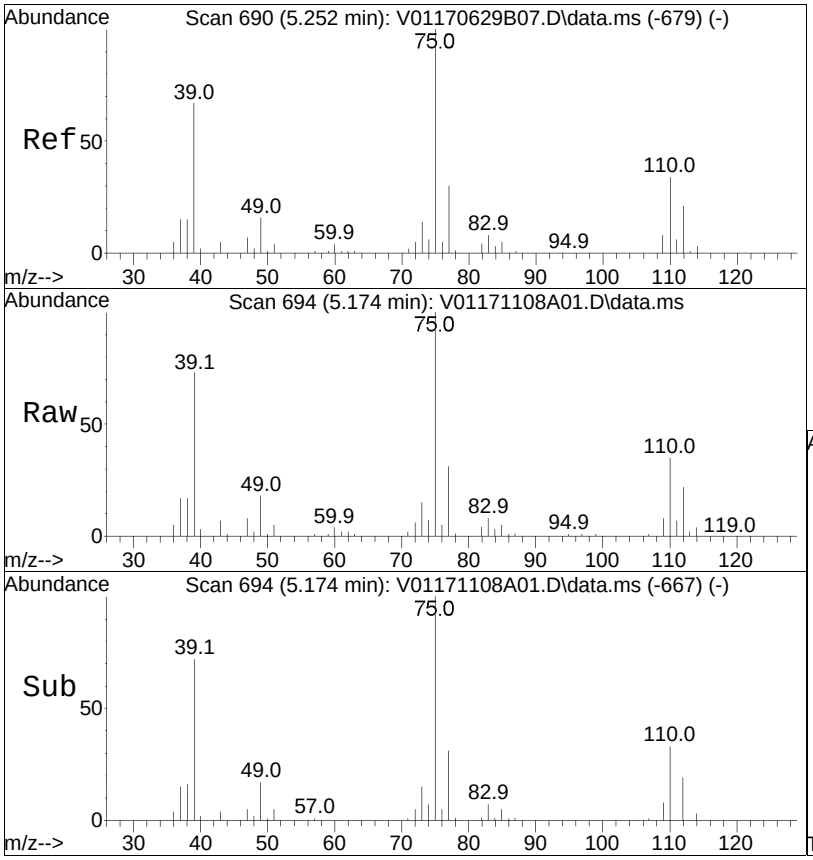


#39
2-Butanone
Concen: 8.40 ug/L M1
RT: 5.157 min Scan# 691
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 43 Resp: 10321

Ion	Ratio	Lower	Upper
43	100		
72	54.5	39.5	59.3

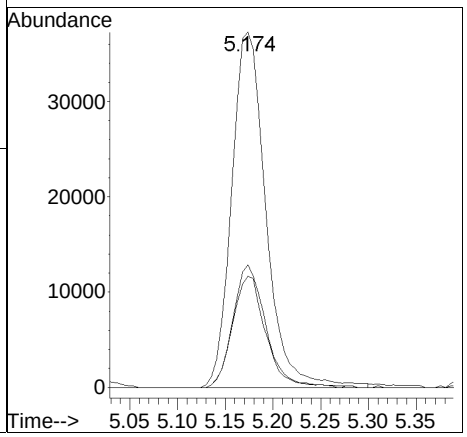


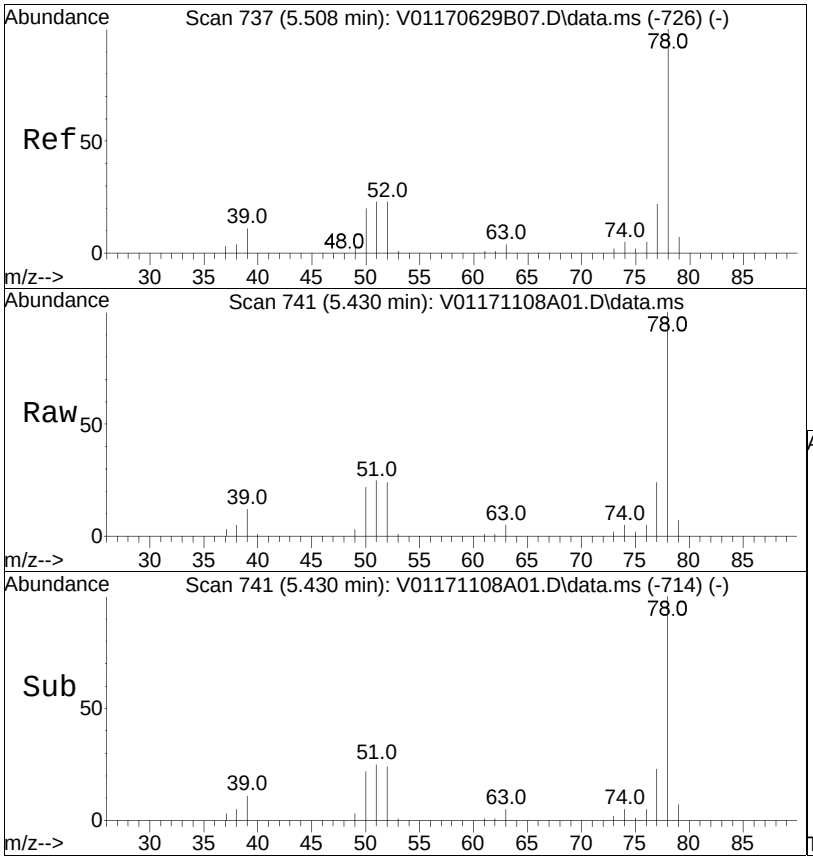


#40
1,1-Dichloropropene
Concen: 9.39 ug/L
RT: 5.174 min Scan# 694
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 75 Resp: 93301

Ion	Ratio	Lower	Upper
75	100		
110	33.1	21.8	45.4
77	30.2	20.0	41.4

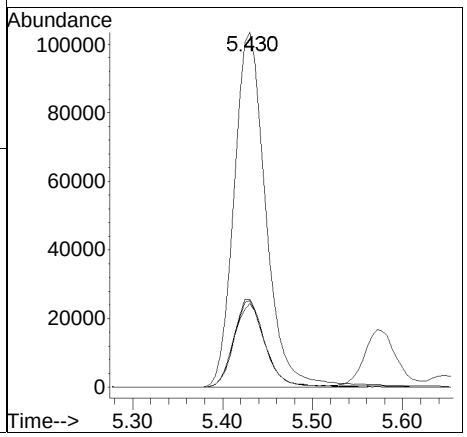


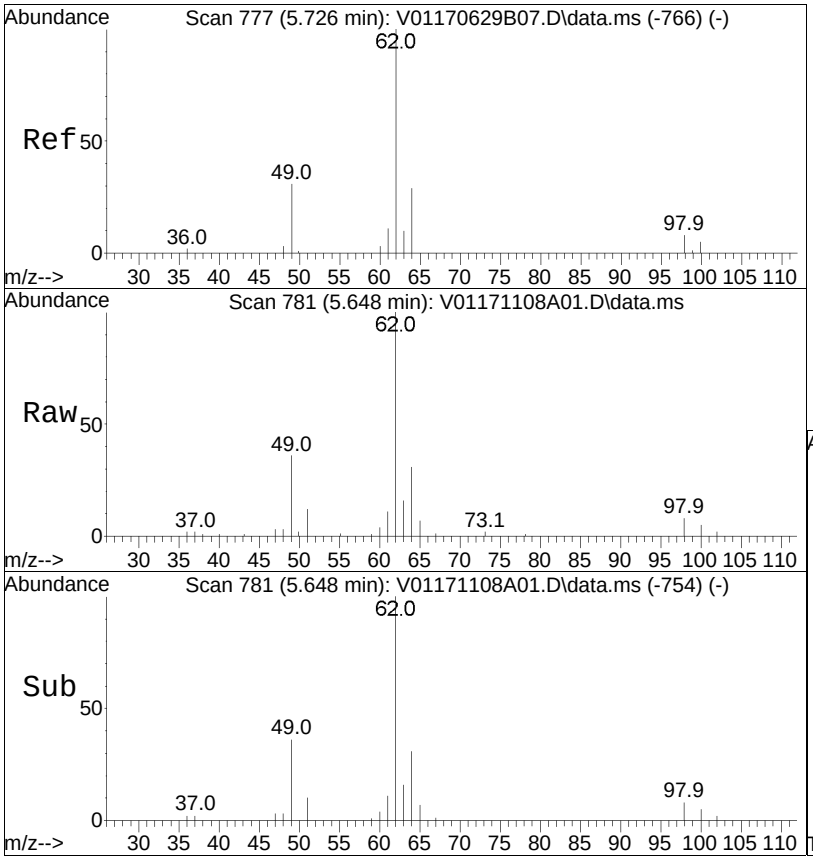


#41
Benzene
Concen: 9.13 ug/L
RT: 5.430 min Scan# 741
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 78 Resp: 254175

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.3	31.9
51	24.6	10.9	22.5#
52	24.1	10.1	20.9#

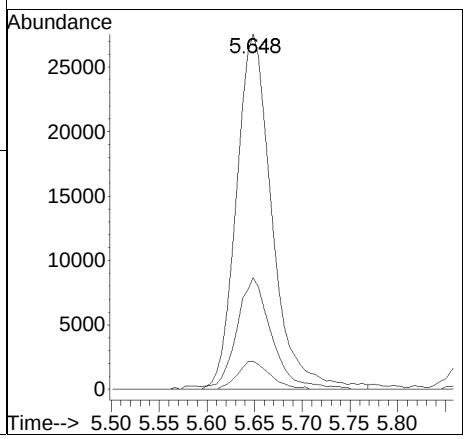


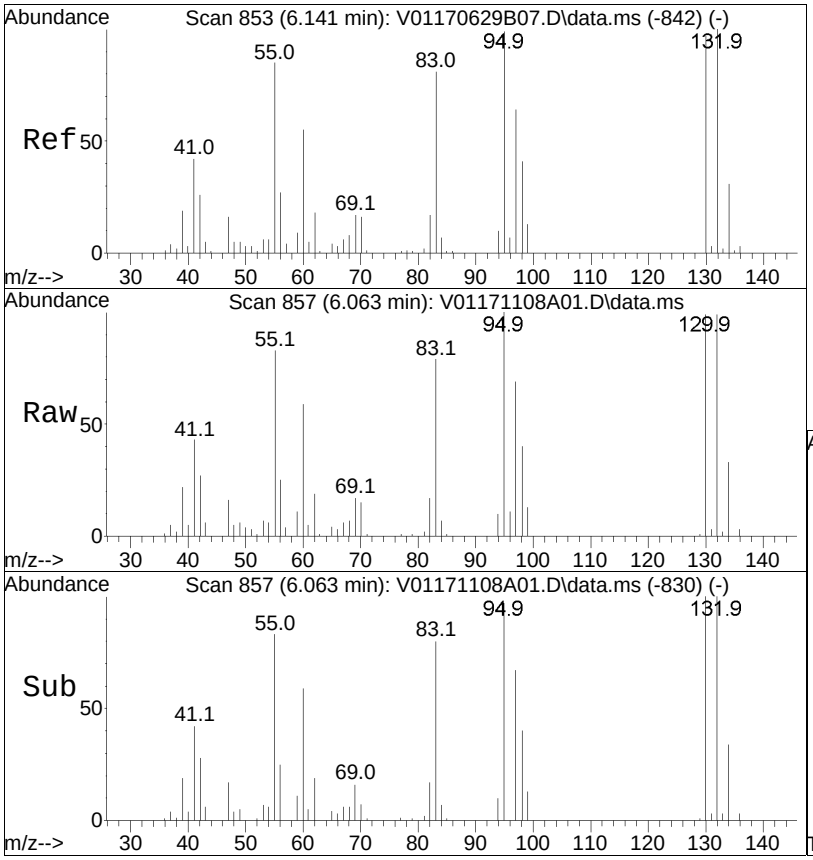


#44
1,2-Dichloroethane
Concen: 10.31 ug/L
RT: 5.648 min Scan# 781
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 62 Resp: 71702

Ion	Ratio	Lower	Upper
62	100		
64	30.9	13.7	53.7
98	7.3	0.0	29.0

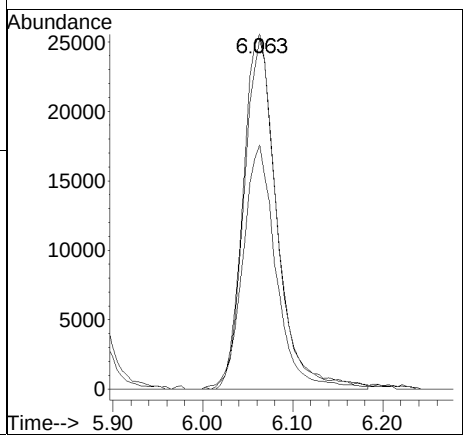


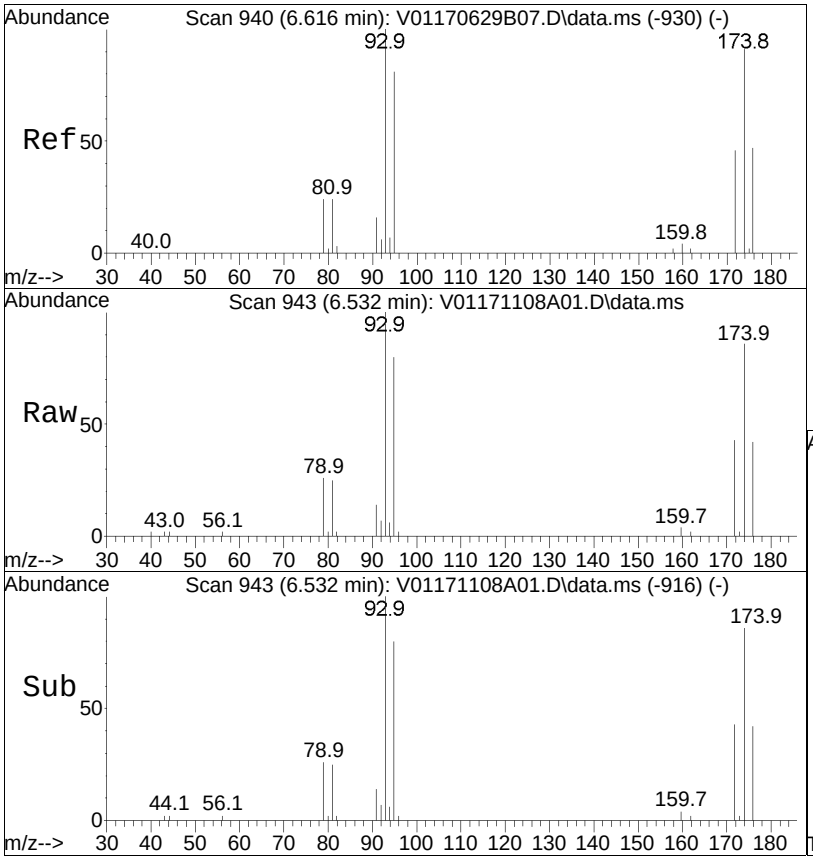


#48
Trichloroethene
Concen: 9.53 ug/L
RT: 6.063 min Scan# 857
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 95 Resp: 66753

Ion	Ratio	Lower	Upper
95	100		
97	68.3	55.1	82.7
130	97.0	71.9	107.9

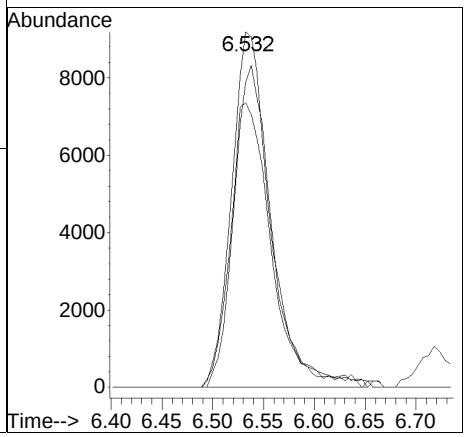


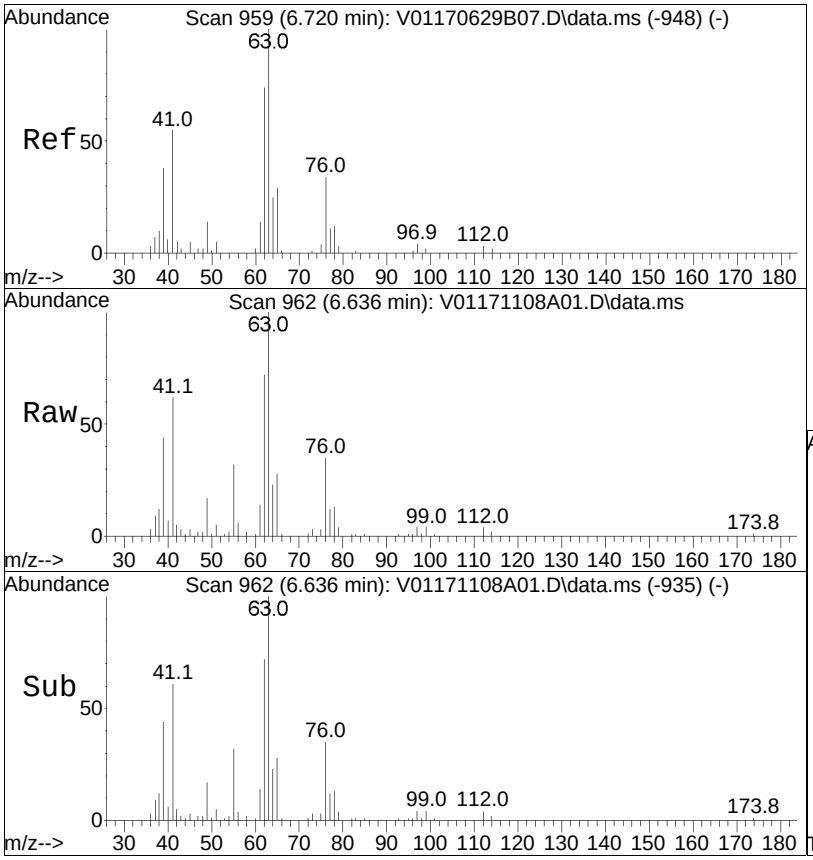


#50
Dibromomethane
Concen: 9.77 ug/L
RT: 6.532 min Scan# 943
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 93 Resp: 24574

Ion	Ratio	Lower	Upper
93	100		
95	84.3	65.9	98.9
174	89.3	68.5	102.7

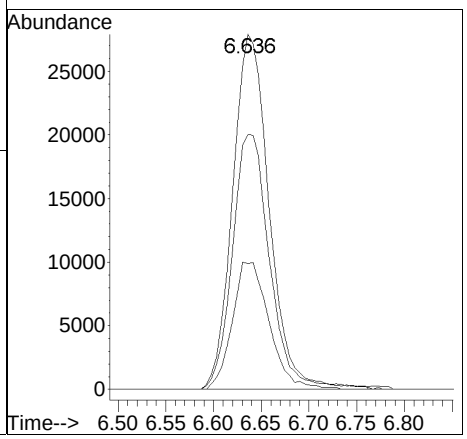


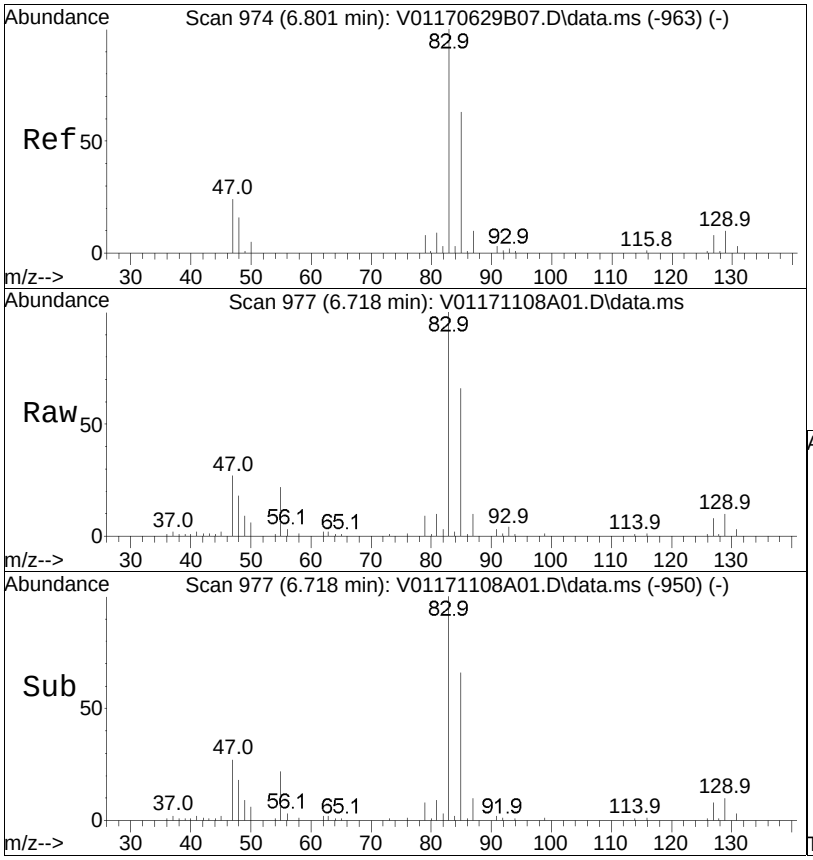


#51
1,2-Dichloropropane
Concen: 9.74 ug/L
RT: 6.636 min Scan# 962
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 63 Resp: 74612

Ion	Ratio	Lower	Upper
63	100		
62	73.1	57.1	85.7
76	36.2	35.3	52.9

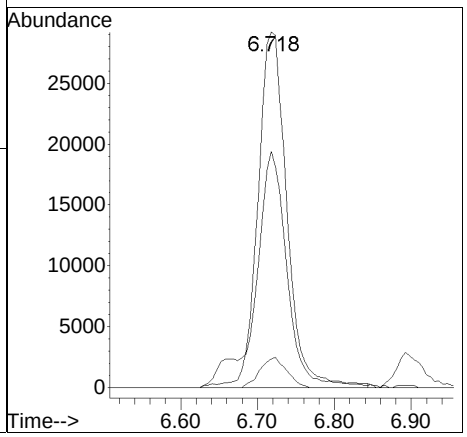


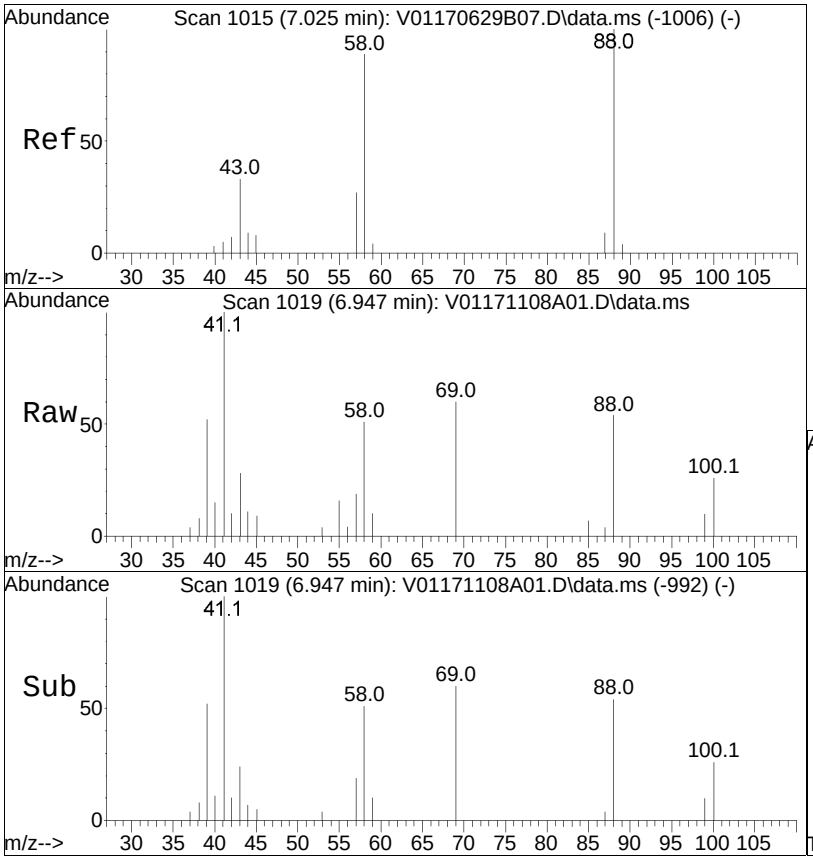


#54
Bromodichloromethane
Concen: 9.85 ug/L
RT: 6.718 min Scan# 977
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 83 Resp: 76769

Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.7	76.1
127	7.7	6.3	9.5

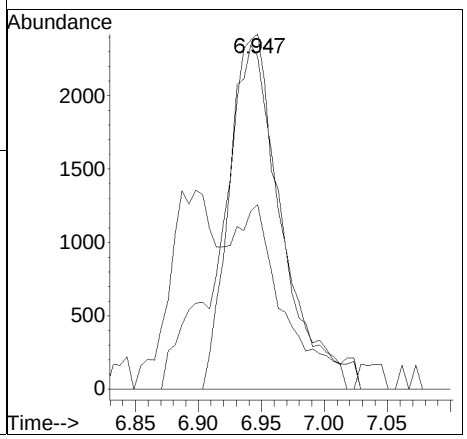


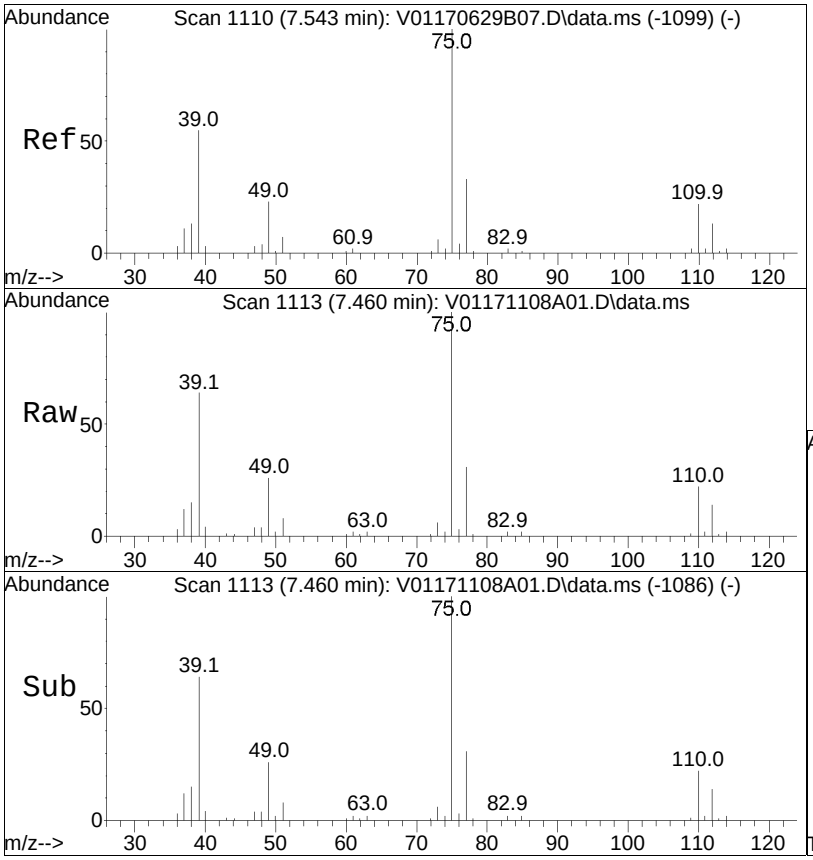


#57
1,4-Dioxane
Concen: 278.31 ug/L
RT: 6.947 min Scan# 1019
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 88 Resp: 7053

Ion	Ratio	Lower	Upper
88	100		
58	113.4	53.5	80.3#
43	51.0	28.6	42.8#

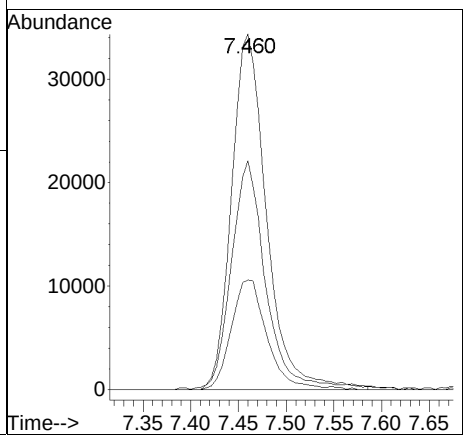


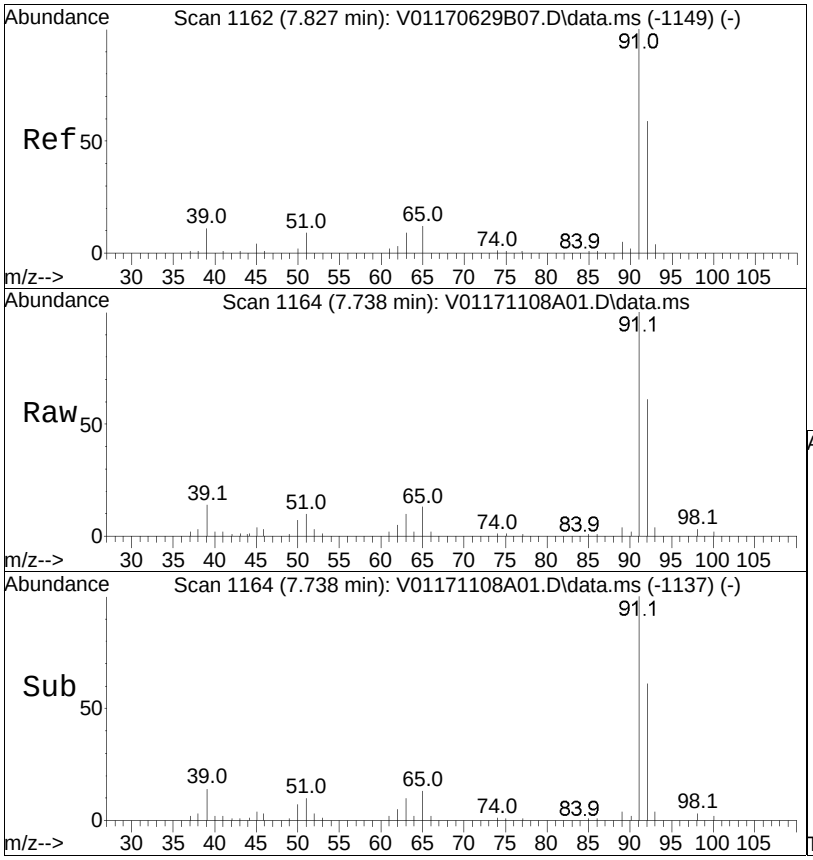


#58
cis-1,3-Dichloropropene
Concen: 9.24 ug/L
RT: 7.460 min Scan# 1113
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 75 Resp: 87670

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.2
39	63.0	42.1	63.1

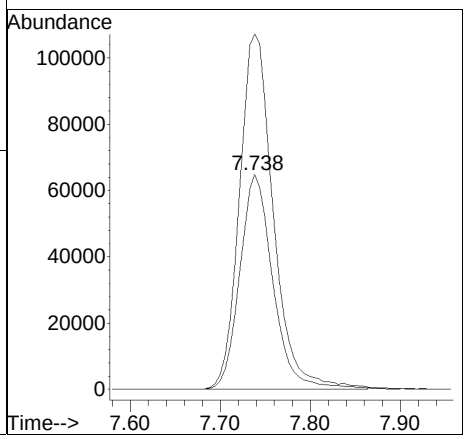


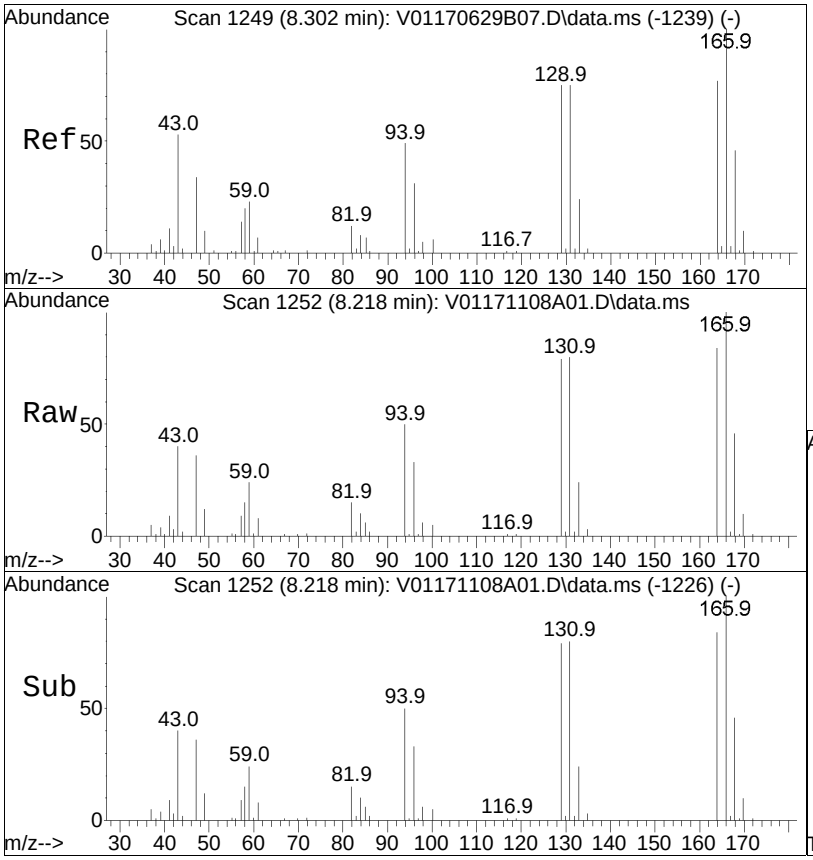


#61
Toluene
Concen: 8.88 ug/L
RT: 7.738 min Scan# 1164
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 92 Resp: 166209

Ion	Ratio	Lower	Upper
92	100		
91	169.0	138.6	207.8

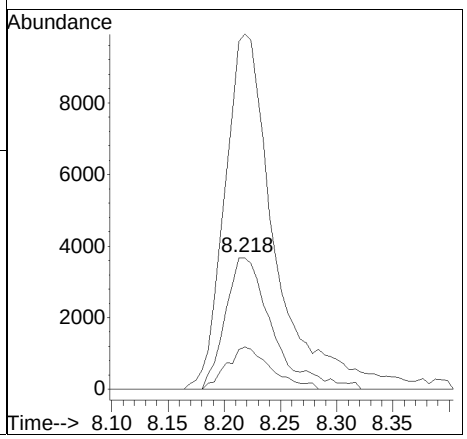


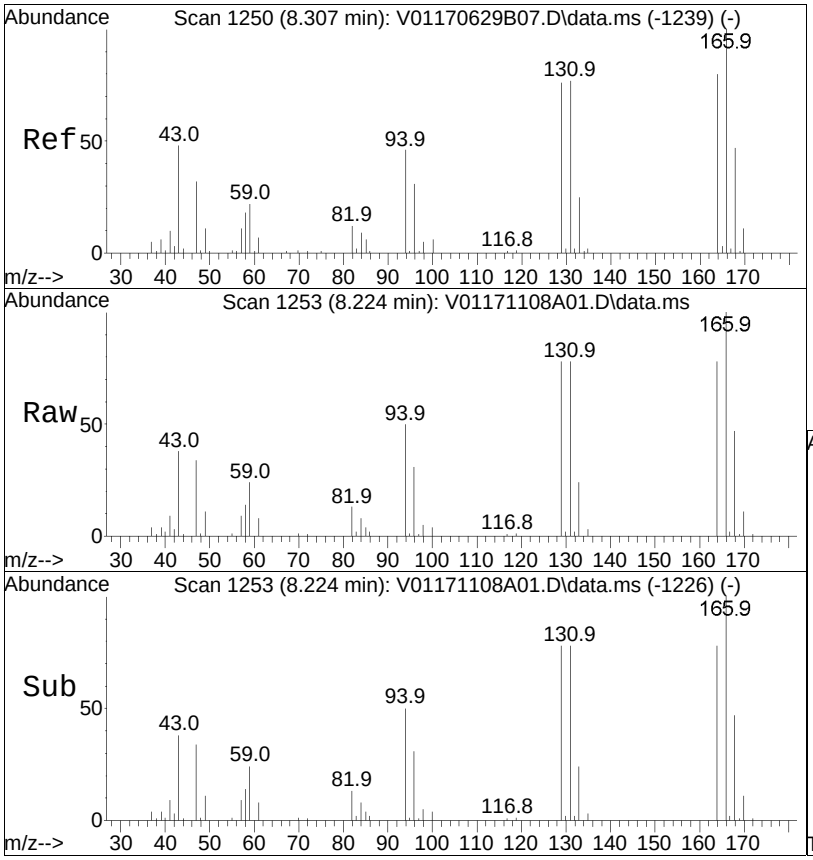


#62
4-Methyl-2-pentanone
Concen: 8.88 ug/L
RT: 8.218 min Scan# 1252
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 58 Resp: 10740

Ion	Ratio	Lower	Upper
58	100		
100	30.7	31.1	46.7#
43	287.2	217.6	326.4

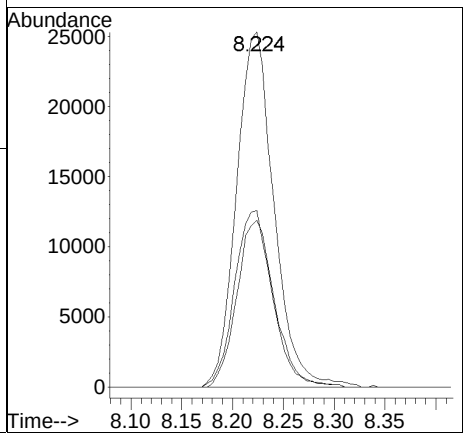


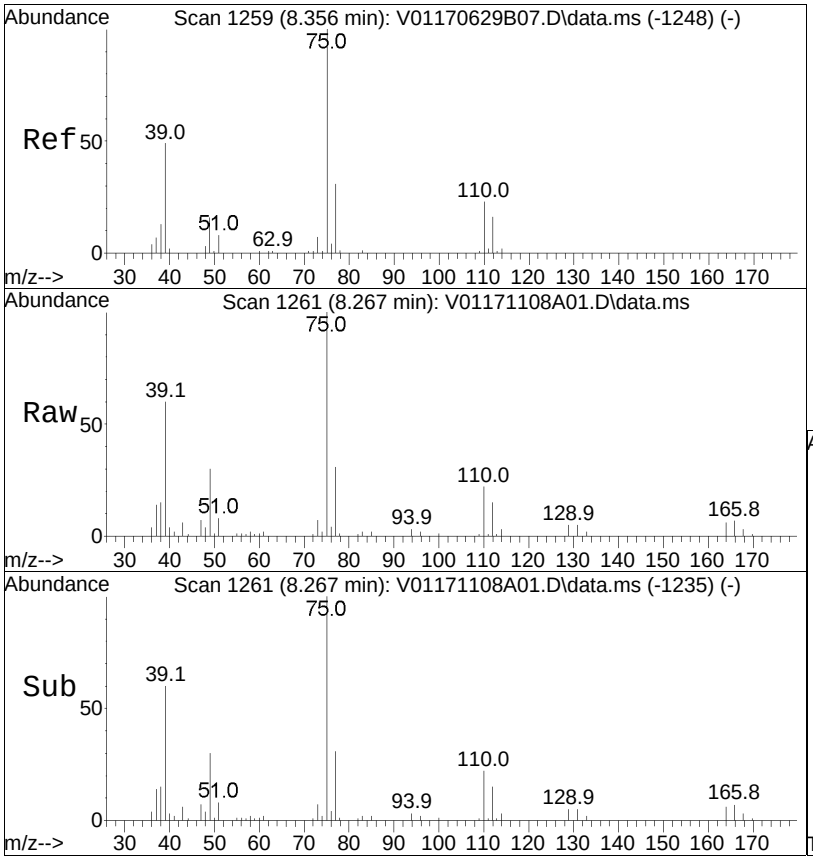


#63
Tetrachloroethene
Concen: 9.05 ug/L
RT: 8.224 min Scan# 1253
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:166 Resp: 65212

Ion	Ratio	Lower	Upper
166	100		
168	47.4	26.8	66.8
94	50.4	33.1	73.1

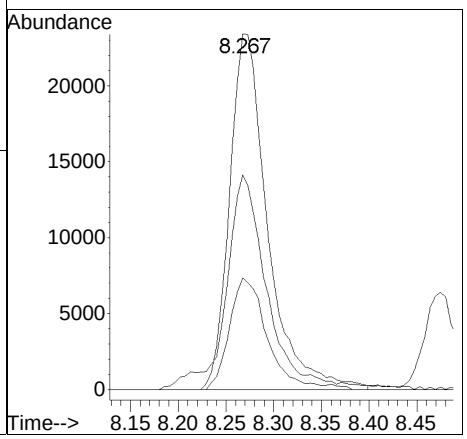


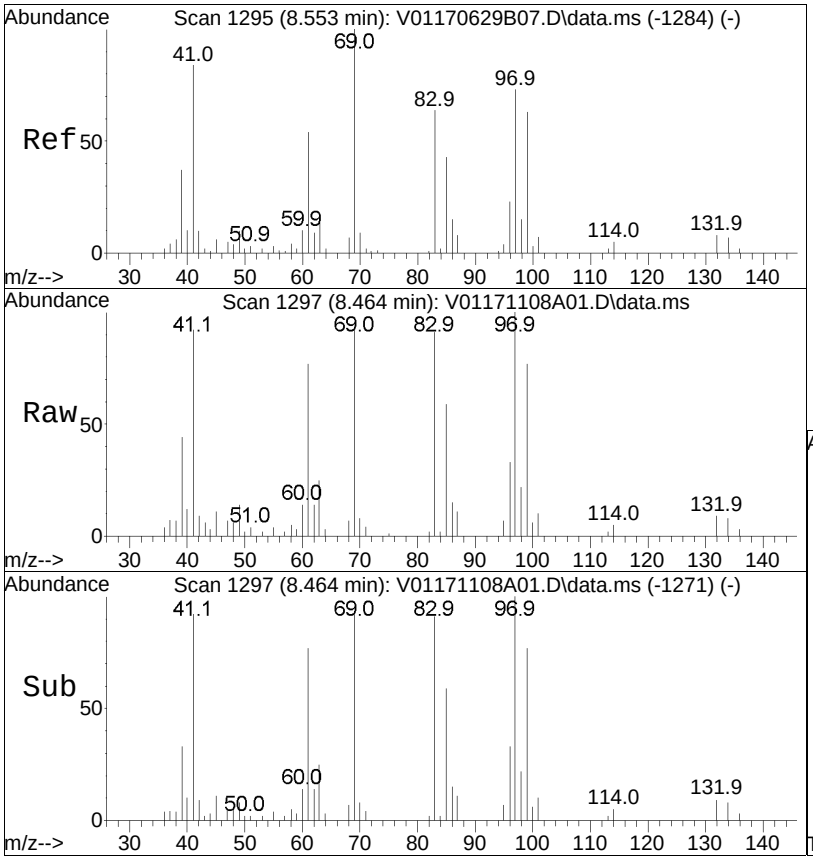


#65
trans-1,3-Dichloropropene
Concen: 8.43 ug/L
RT: 8.267 min Scan# 1261
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 75 Resp: 64928

Ion	Ratio	Lower	Upper
75	100		
77	30.8	11.8	51.8
39	64.6	34.7	74.7

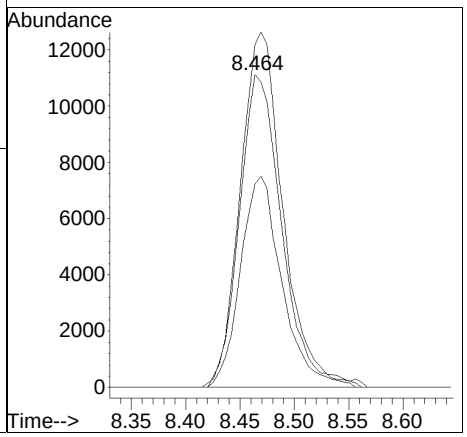


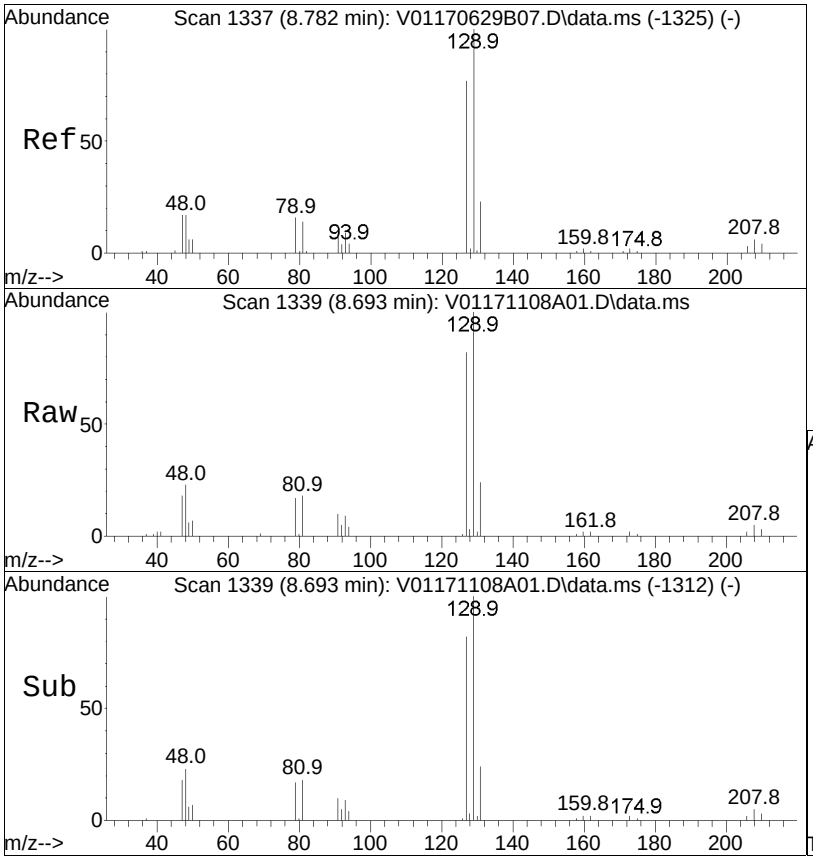


#68
1,1,2-Trichloroethane
Concen: 9.11 ug/L
RT: 8.464 min Scan# 1297
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 83 Resp: 30229

Ion	Ratio	Lower	Upper
83	100		
97	114.6	99.6	139.6
85	66.2	46.7	86.7

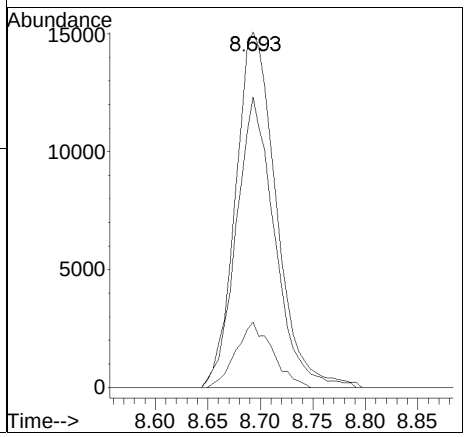


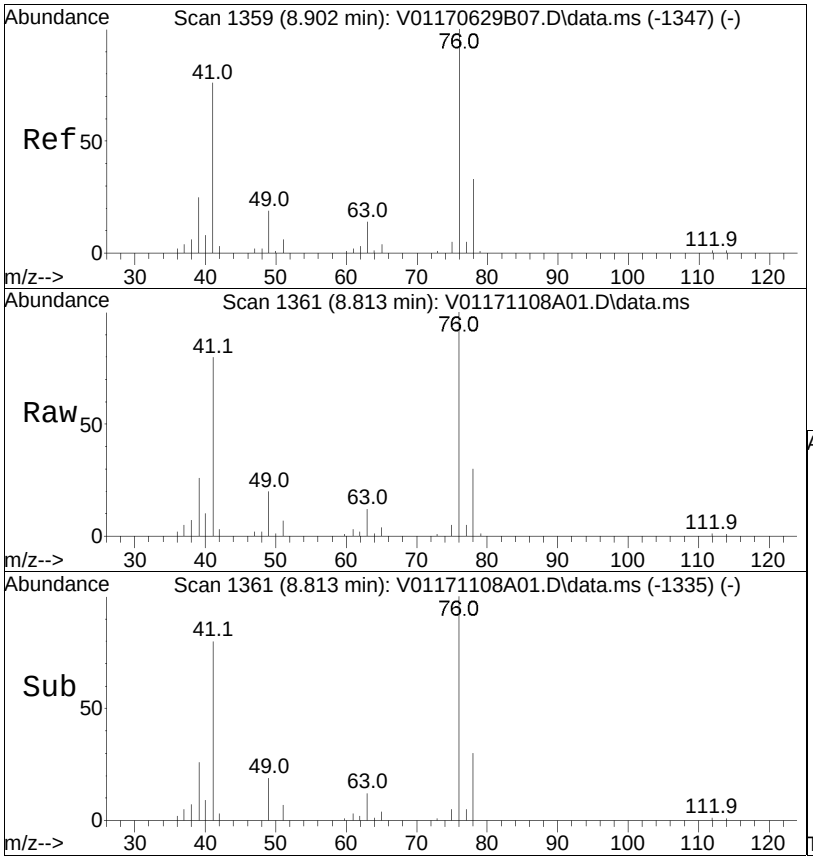


#69
Chlorodibromomethane
Concen: 8.72 ug/L
RT: 8.693 min Scan# 1339
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:129 Resp: 40589

Ion	Ratio	Lower	Upper
129	100		
81	16.5	0.7	40.7
127	77.5	59.8	99.8

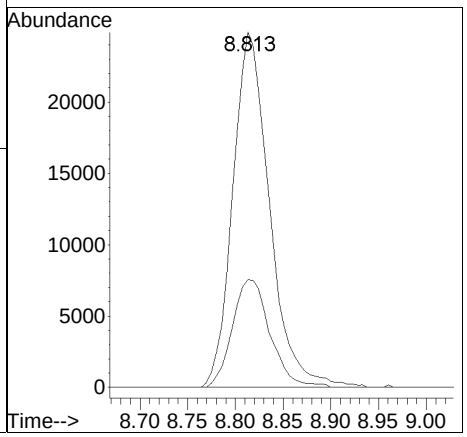


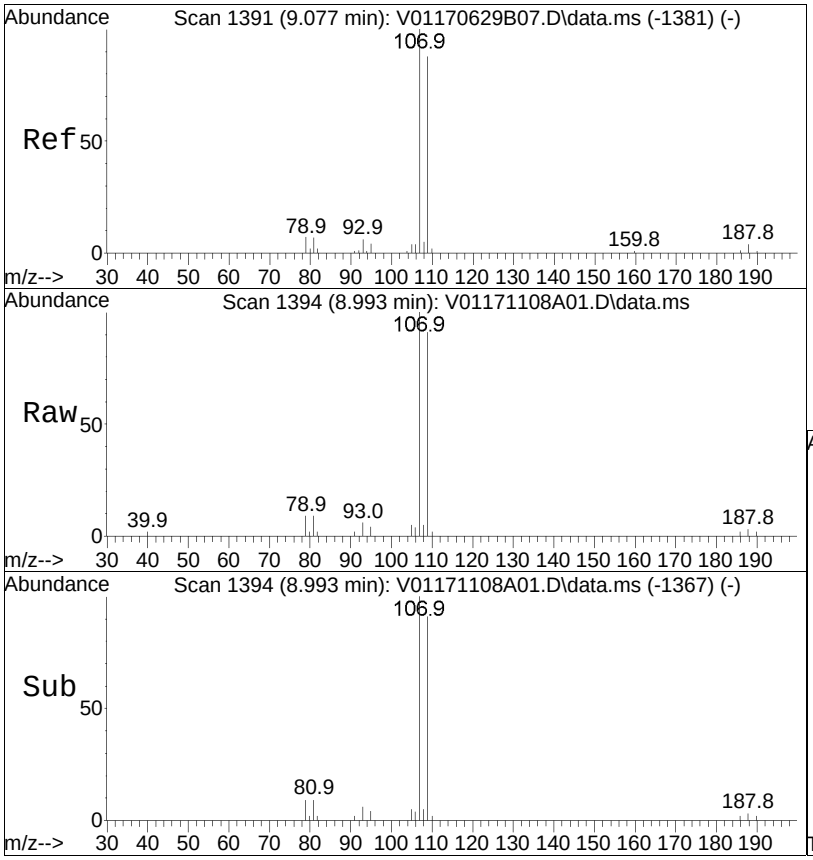


#70
1,3-Dichloropropane
Concen: 9.13 ug/L
RT: 8.813 min Scan# 1361
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 76 Resp: 66646

Ion	Ratio	Lower	Upper
76	100		
78	31.2	25.6	38.4

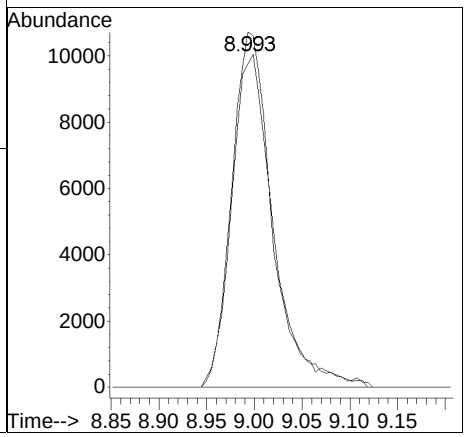


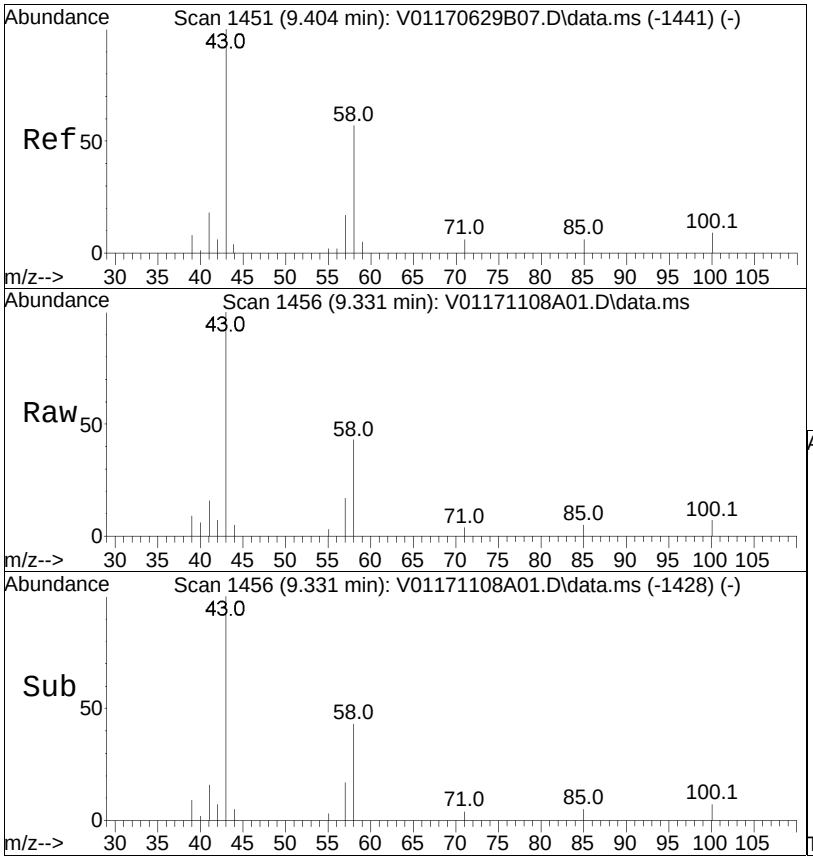


#71
1,2-Dibromoethane
Concen: 8.99 ug/L
RT: 8.993 min Scan# 1394
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:107 Resp: 32261

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.3	111.5

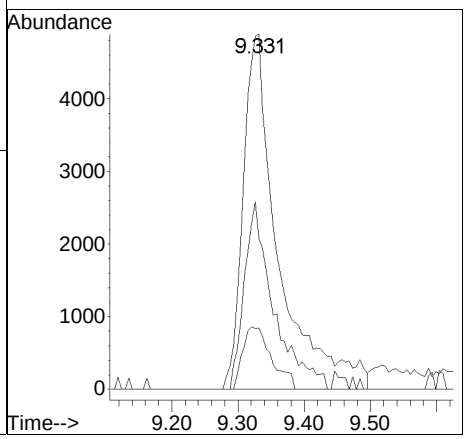


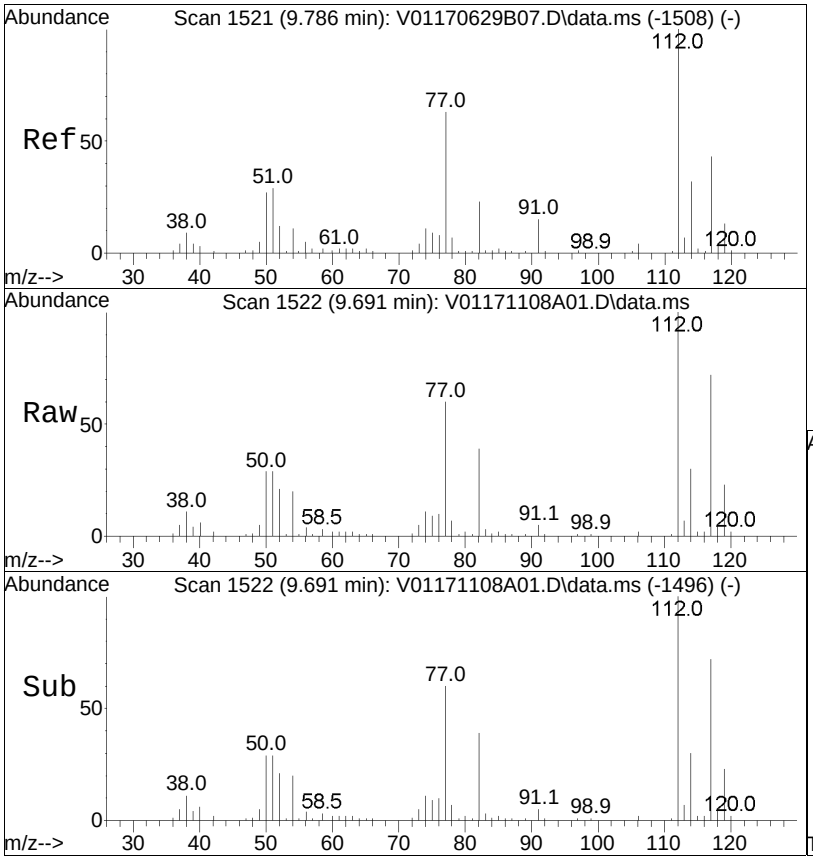


#72
2-Hexanone
Concen: 9.16 ug/L M1
RT: 9.331 min Scan# 1456
Delta R.T. 0.004 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 43 Resp: 18117

Ion	Ratio	Lower	Upper
43	100		
58	44.0	38.9	58.3
57	14.4	14.5	21.7#

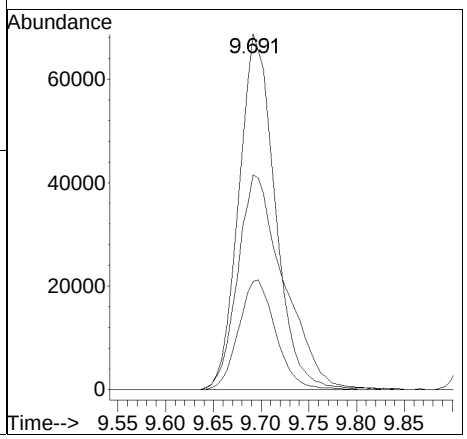


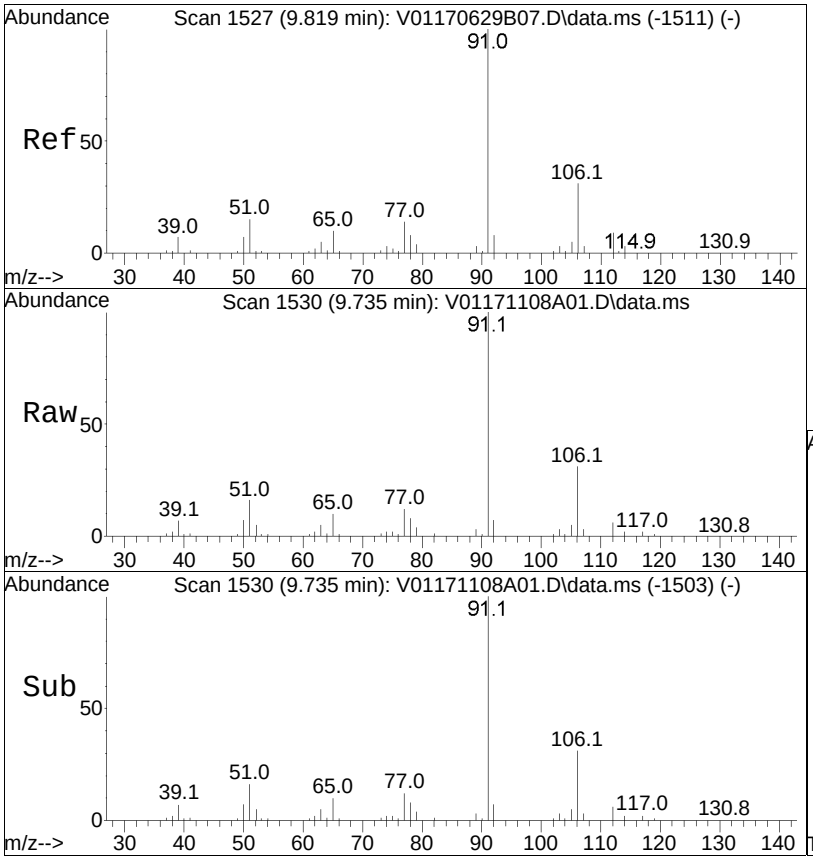


#73
Chlorobenzene
Concen: 9.27 ug/L
RT: 9.691 min Scan# 1522
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:112 Resp: 181241

Ion	Ratio	Lower	Upper
112	100		
77	76.8	62.7	94.1
114	31.4	25.6	38.4

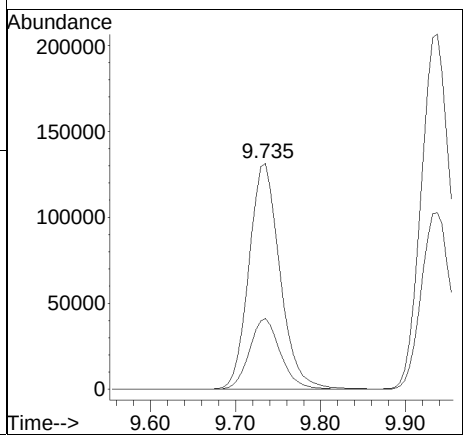


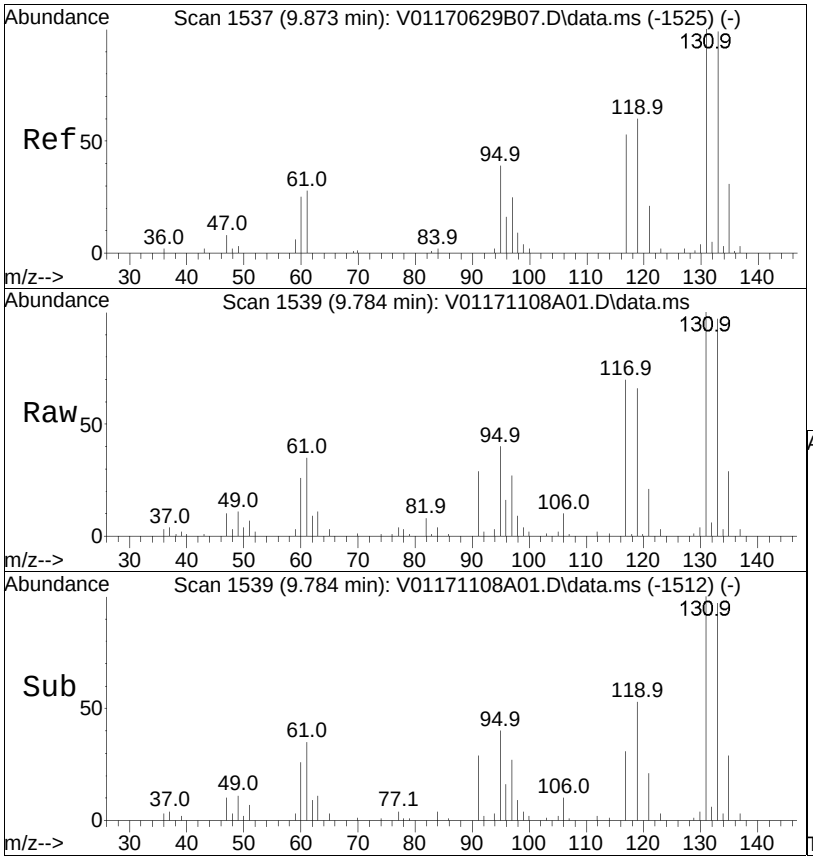


#74
Ethylbenzene
Concen: 9.43 ug/L
RT: 9.735 min Scan# 1530
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 91 Resp: 334252

Ion	Ratio	Lower	Upper
91	100		
106	31.4	23.5	35.3

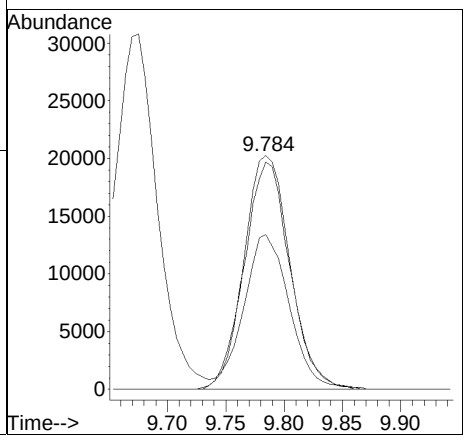


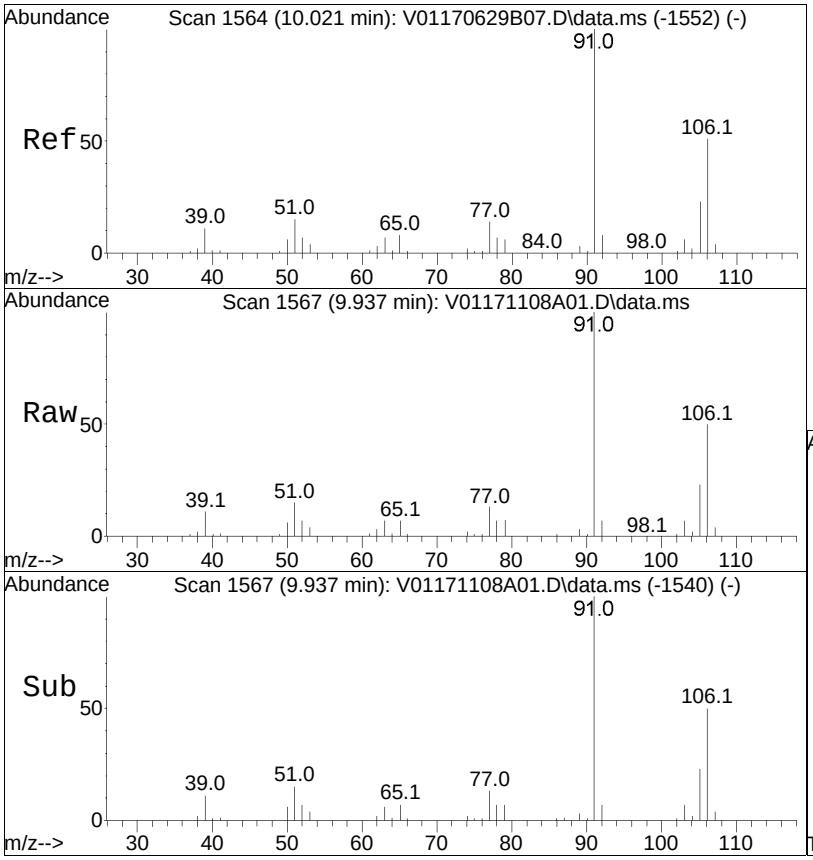


#75
1,1,1,2-Tetrachloroethane
Concen: 9.05 ug/L
RT: 9.784 min Scan# 1539
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:131 Resp: 56053

Ion	Ratio	Lower	Upper
131	100		
133	95.7	77.6	117.6
119	65.1	47.4	87.4

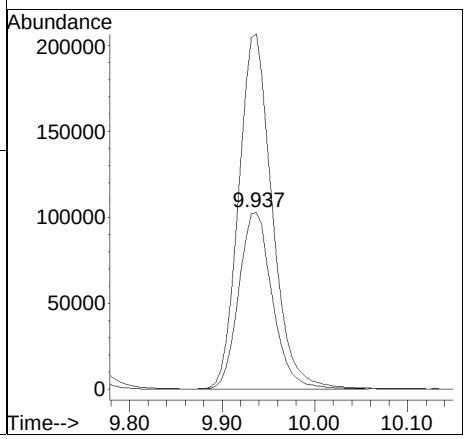


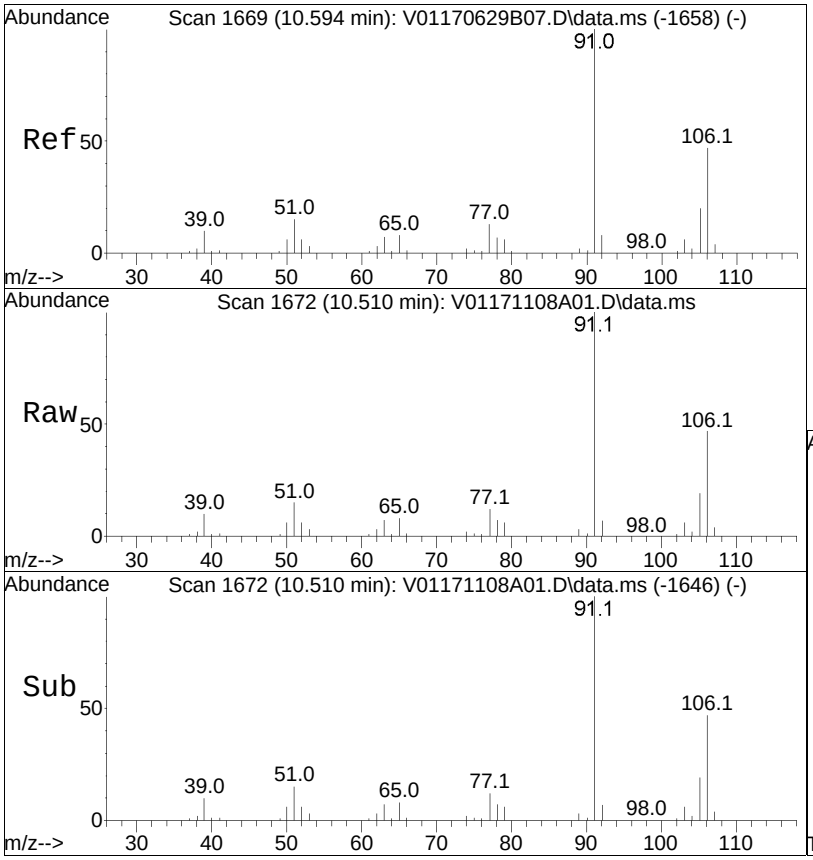


#76
p/m Xylene
Concen: 19.25 ug/L
RT: 9.937 min Scan# 1567
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:106 Resp: 261392

Ion	Ratio	Lower	Upper
106	100		
91	197.9	174.8	262.2

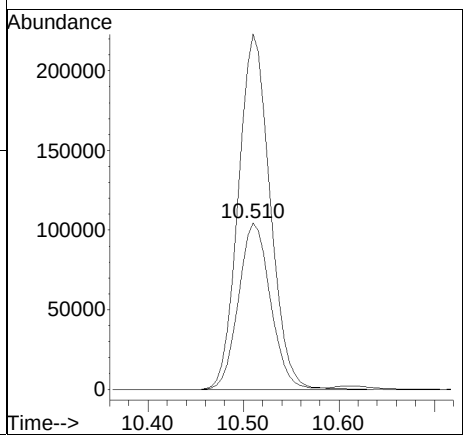


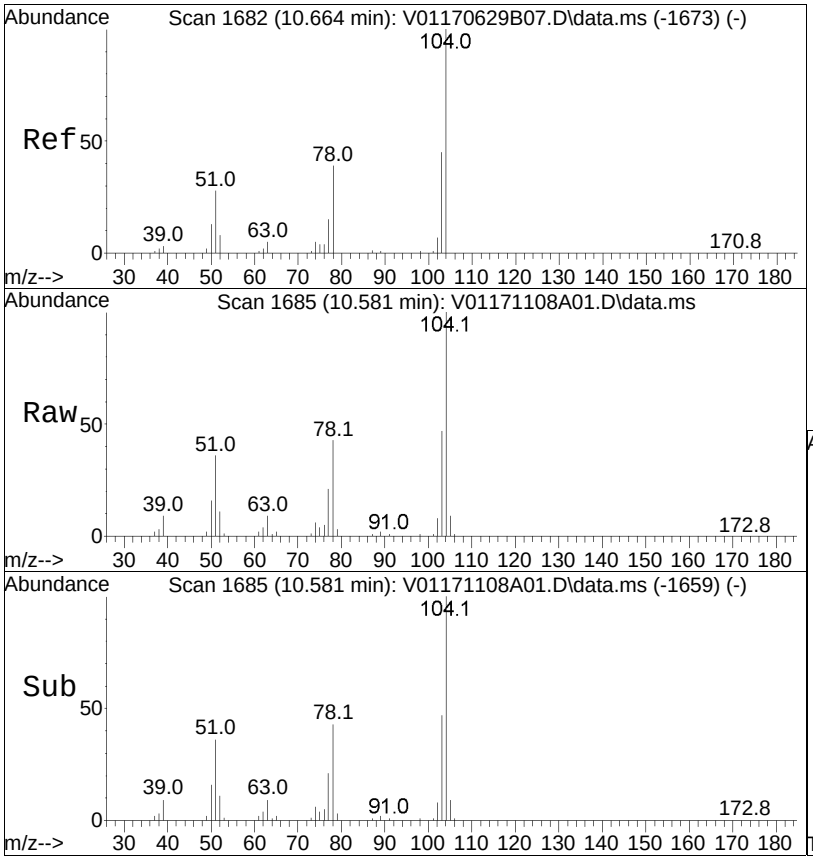


#77
o Xylene
Concen: 19.86 ug/L
RT: 10.510 min Scan# 1672
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:106 Resp: 243965

Ion	Ratio	Lower	Upper
106	100		
91	210.8	184.5	276.7

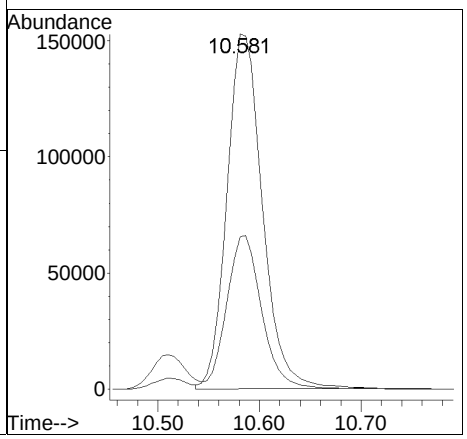


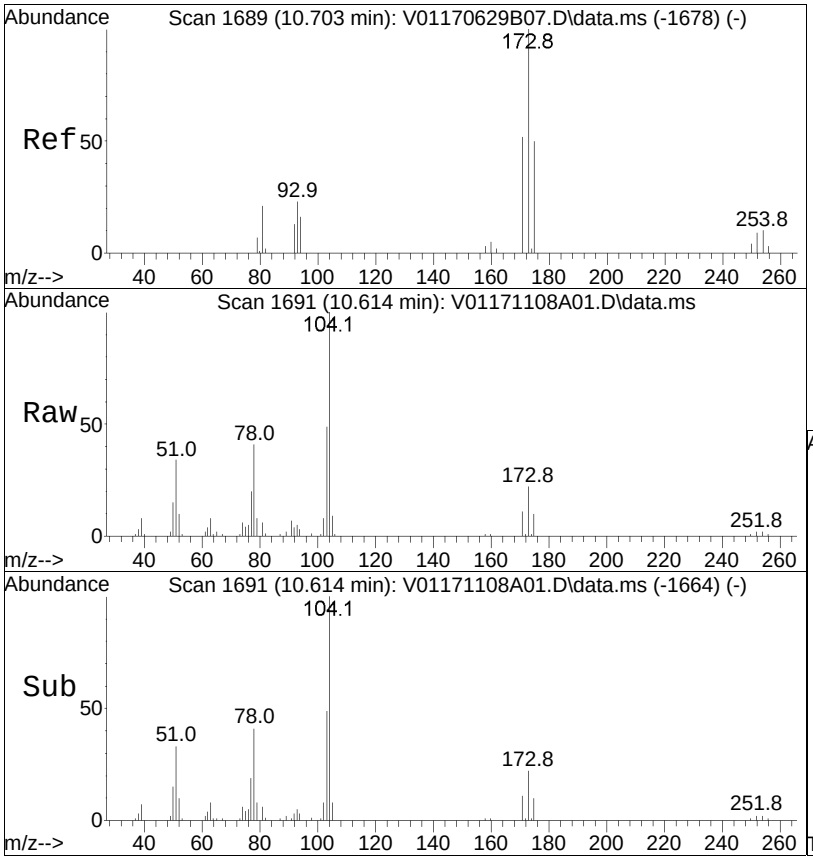


#78
Styrene
Concen: 19.38 ug/L
RT: 10.581 min Scan# 1685
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:104 Resp: 369888

Ion	Ratio	Lower	Upper
104	100		
78	42.7	36.4	54.6

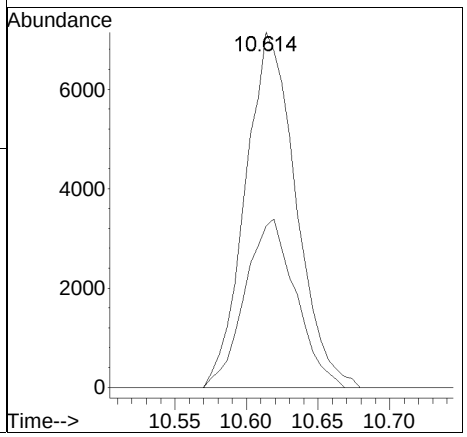


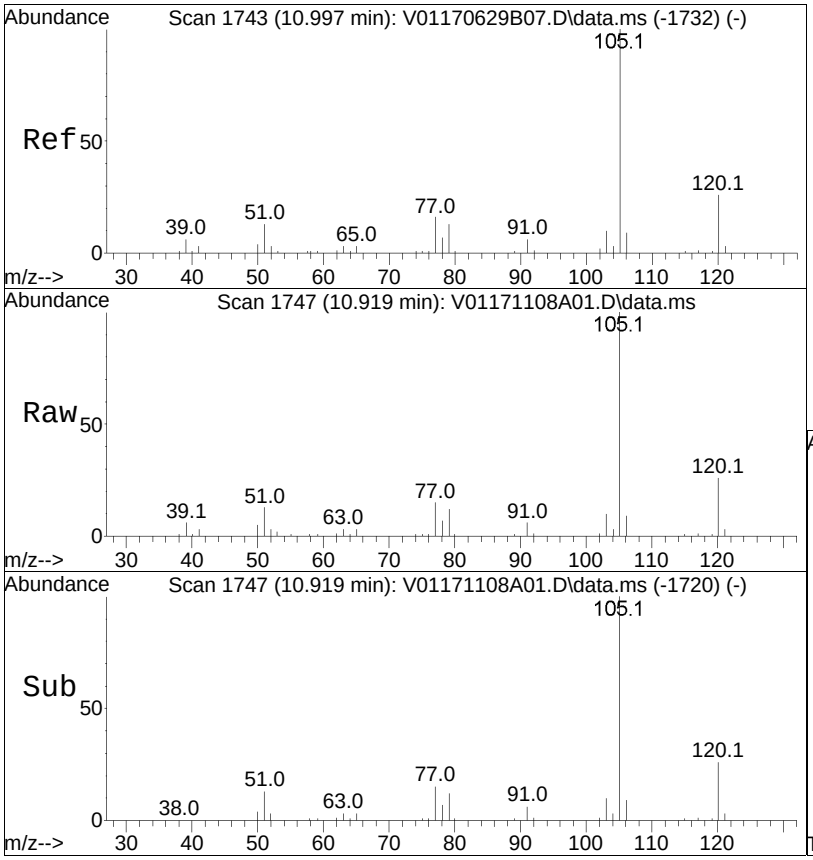


#80
Bromoform
Concen: 8.50 ug/L
RT: 10.614 min Scan# 1691
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:173 Resp: 17577

Ion	Ratio	Lower	Upper
173	100		
175	47.6	27.8	67.8

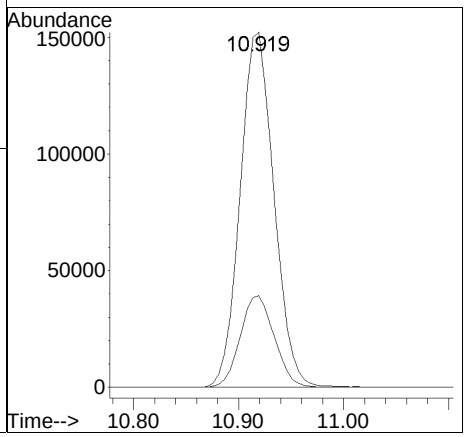


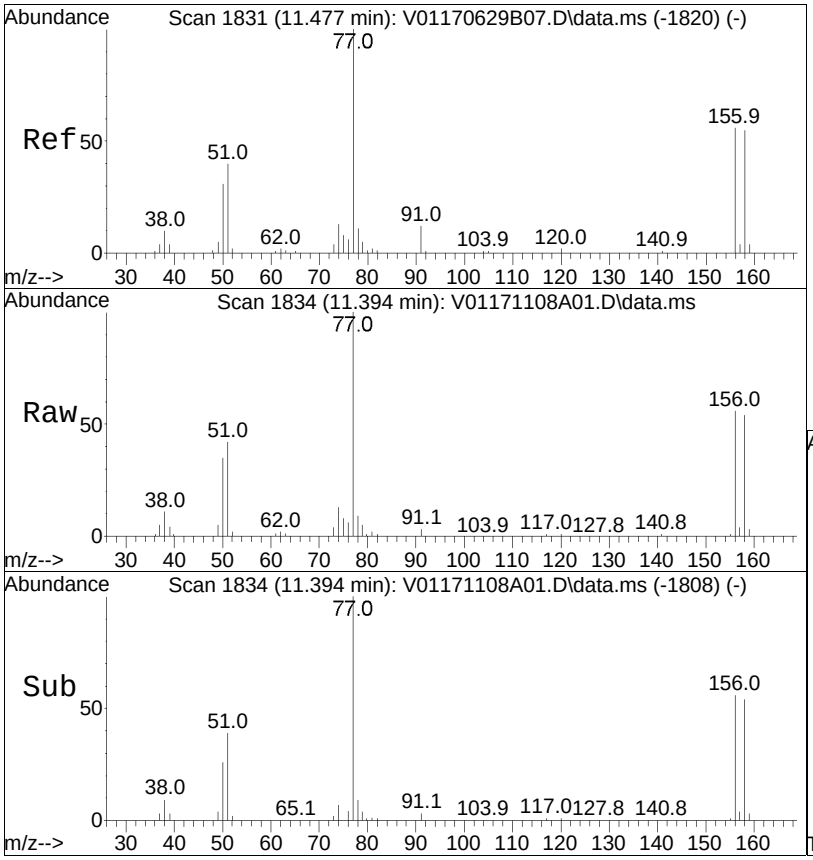


#82
Isopropylbenzene
Concen: 9.23 ug/L
RT: 10.919 min Scan# 1747
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:105 Resp: 341090

Ion	Ratio	Lower	Upper
105	100		
120	26.0	6.1	46.1

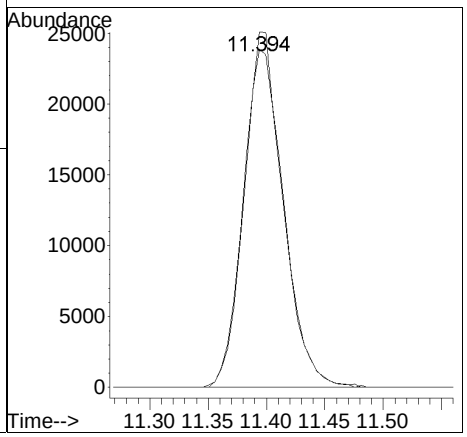


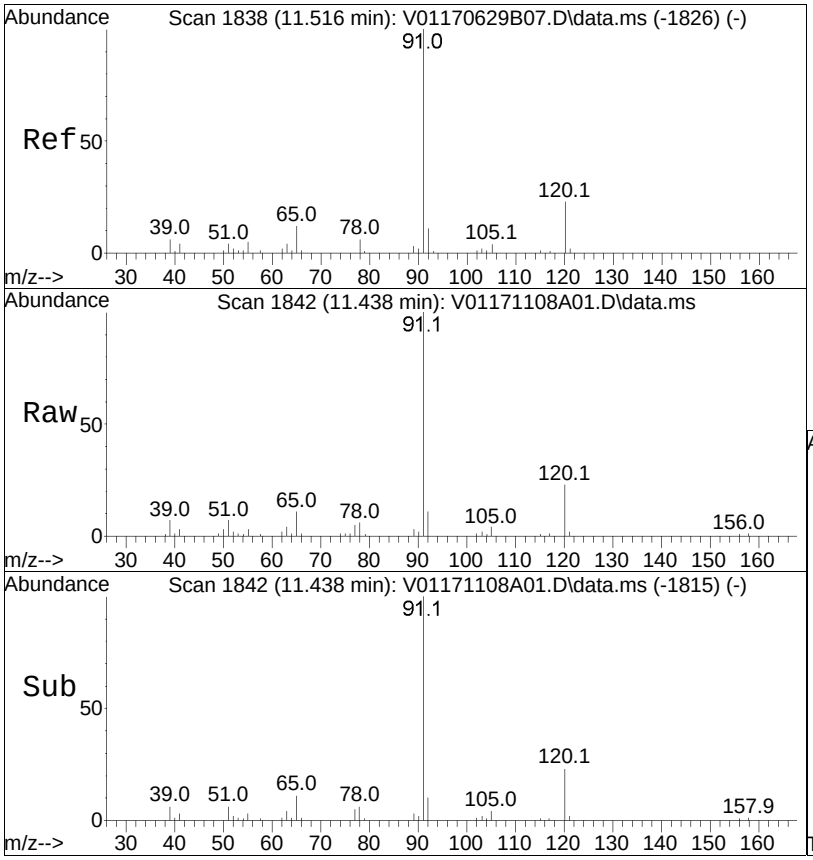


#84
Bromobenzene
Concen: 8.99 ug/L
RT: 11.394 min Scan# 1834
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:156 Resp: 58950

Ion	Ratio	Lower	Upper
156	100		
158	96.5	76.9	115.3

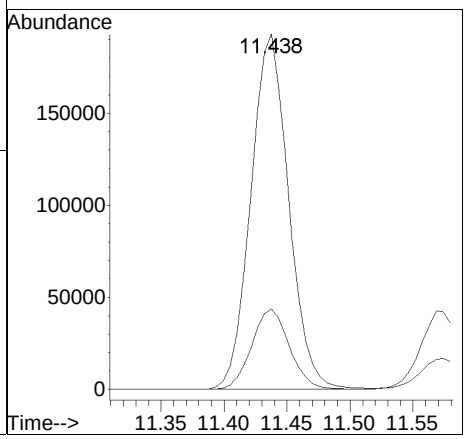


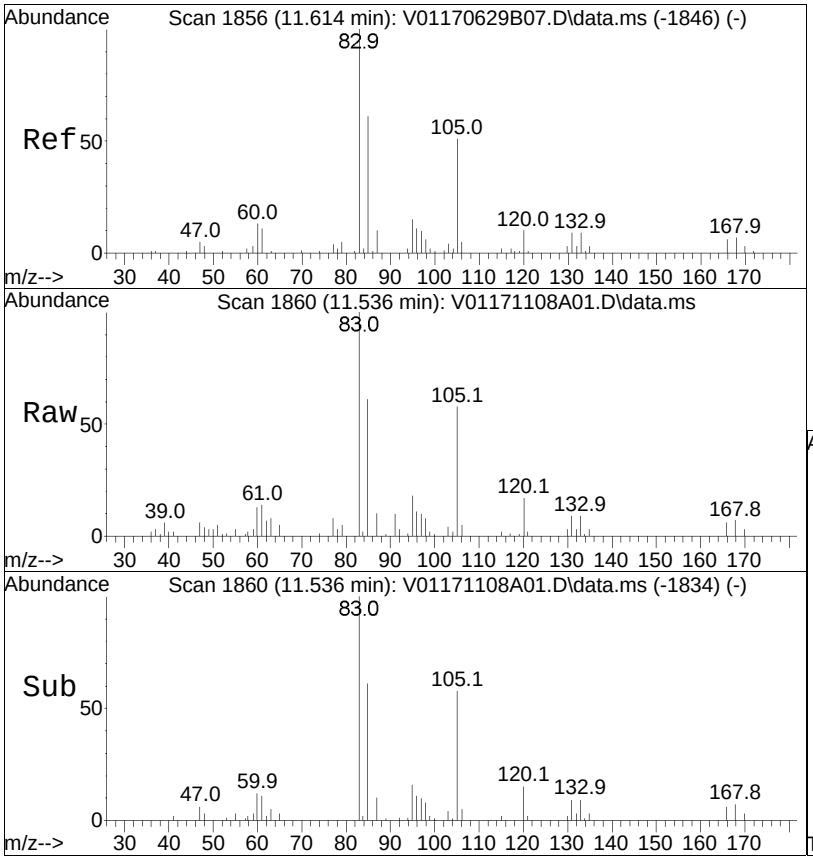


#85
n-Propylbenzene
Concen: 9.45 ug/L
RT: 11.438 min Scan# 1842
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 91 Resp: 402748

Ion	Ratio	Lower	Upper
91	100		
120	22.6	16.6	25.0

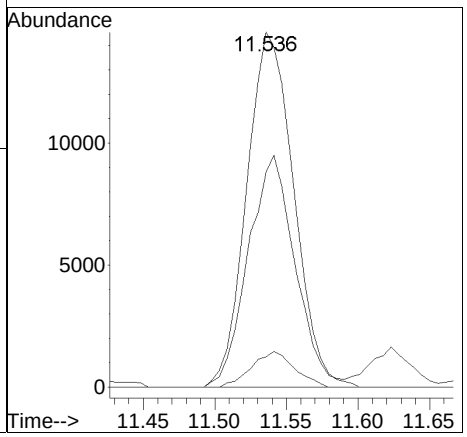


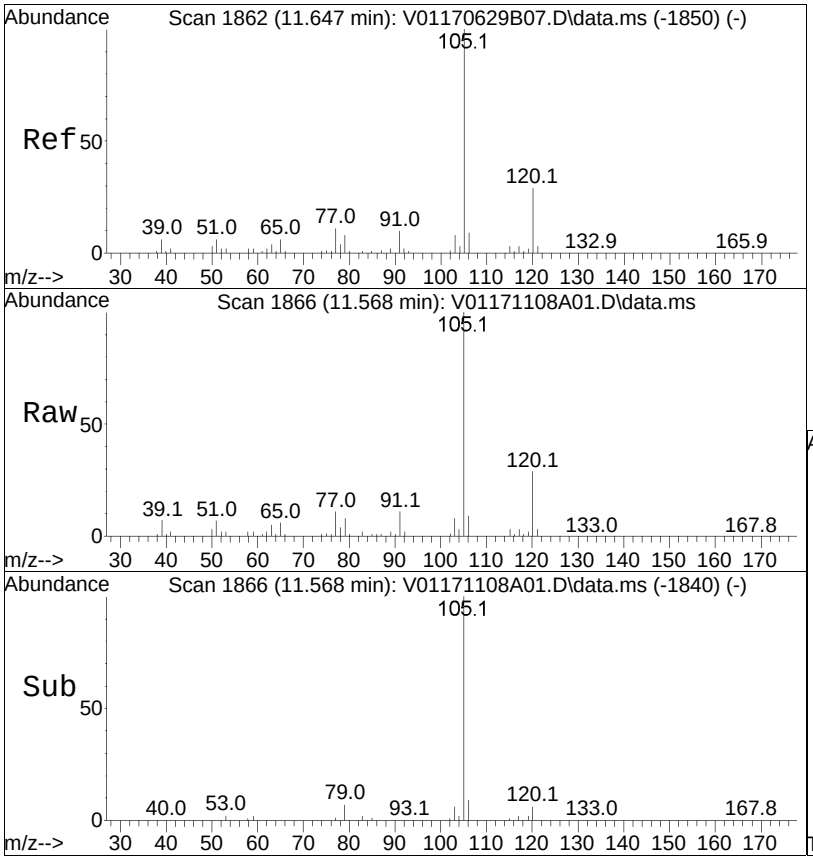


#87
1,1,2,2-Tetrachloroethane
Concen: 8.71 ug/L
RT: 11.536 min Scan# 1860
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 83 Resp: 33233

Ion	Ratio	Lower	Upper
83	100		
131	9.3	0.0	29.5
85	65.4	44.9	84.9

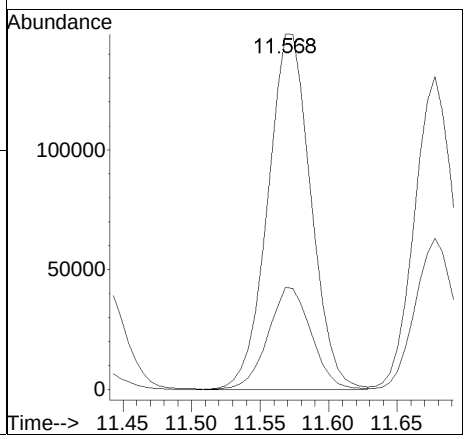


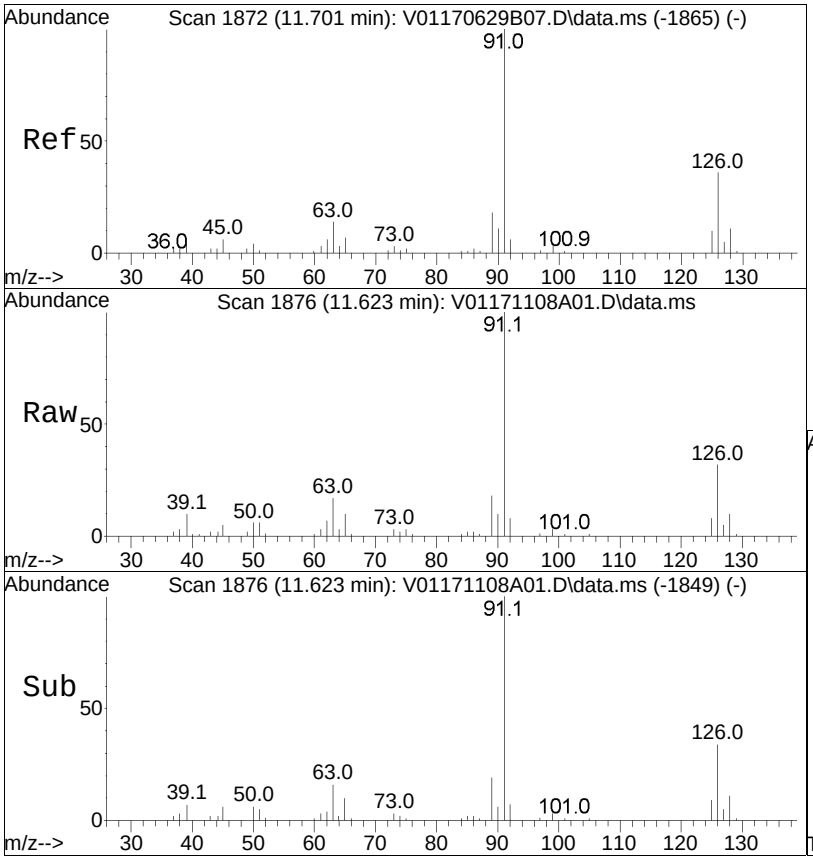


#88
4-Ethyltoluene
Concen: 9.51 ug/L
RT: 11.568 min Scan# 1866
Delta R.T. -0.008 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:105 Resp: 324880

Ion	Ratio	Lower	Upper
105	100		
120	28.7	18.9	39.1

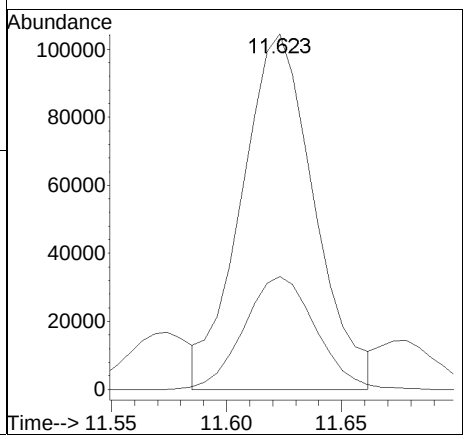


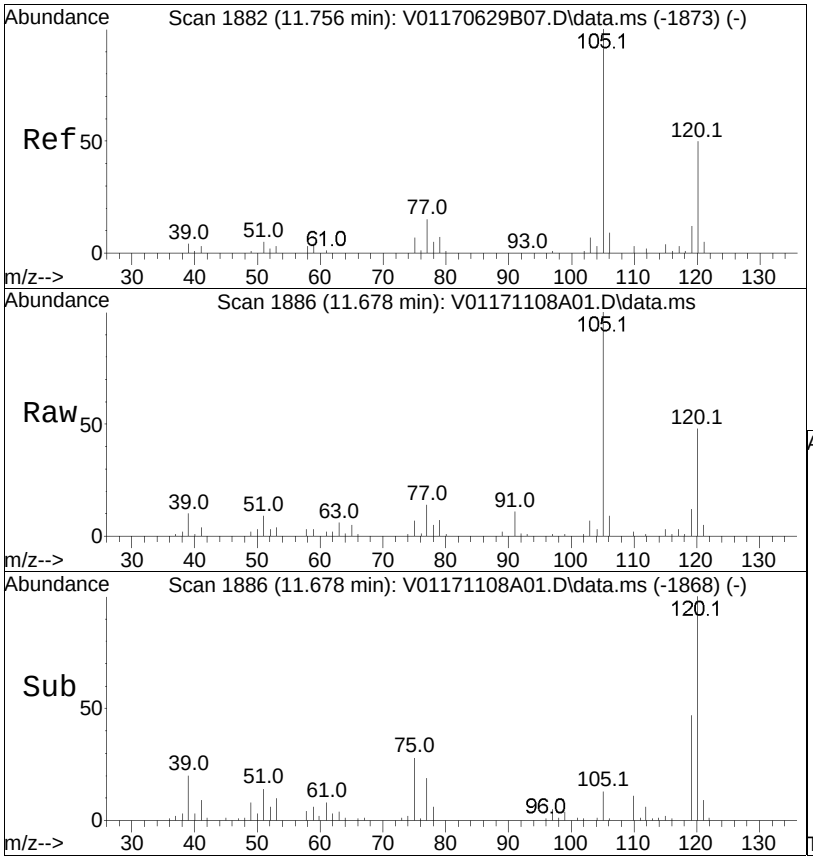


#89
2-Chlorotoluene
Concen: 9.36 ug/L M1
RT: 11.623 min Scan# 1876
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 91 Resp: 229502

Ion	Ratio	Lower	Upper
91	100		
126	31.3	22.9	34.3

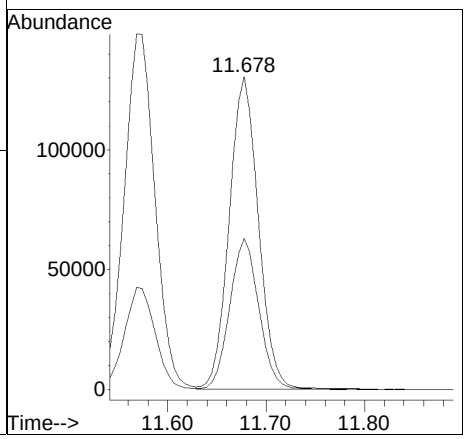


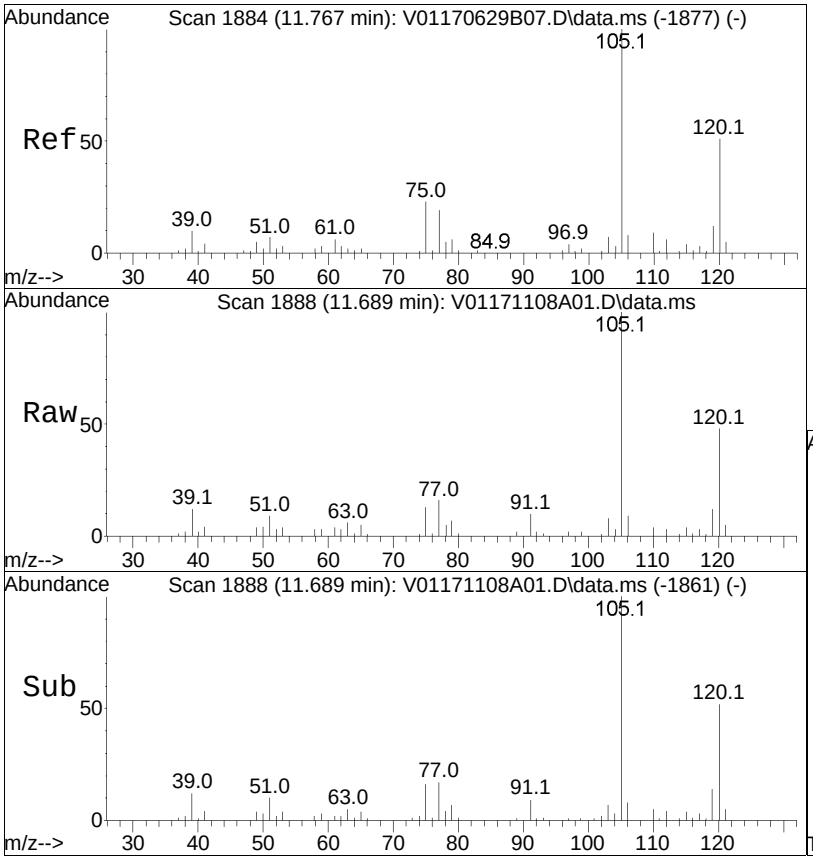


#90
1,3,5-Trimethylbenzene
Concen: 9.21 ug/L
RT: 11.678 min Scan# 1886
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:105 Resp: 267692

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.8	56.8

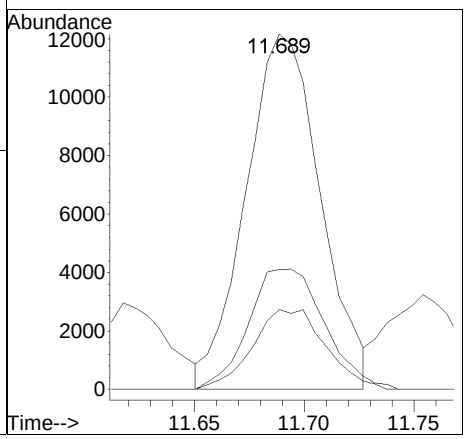


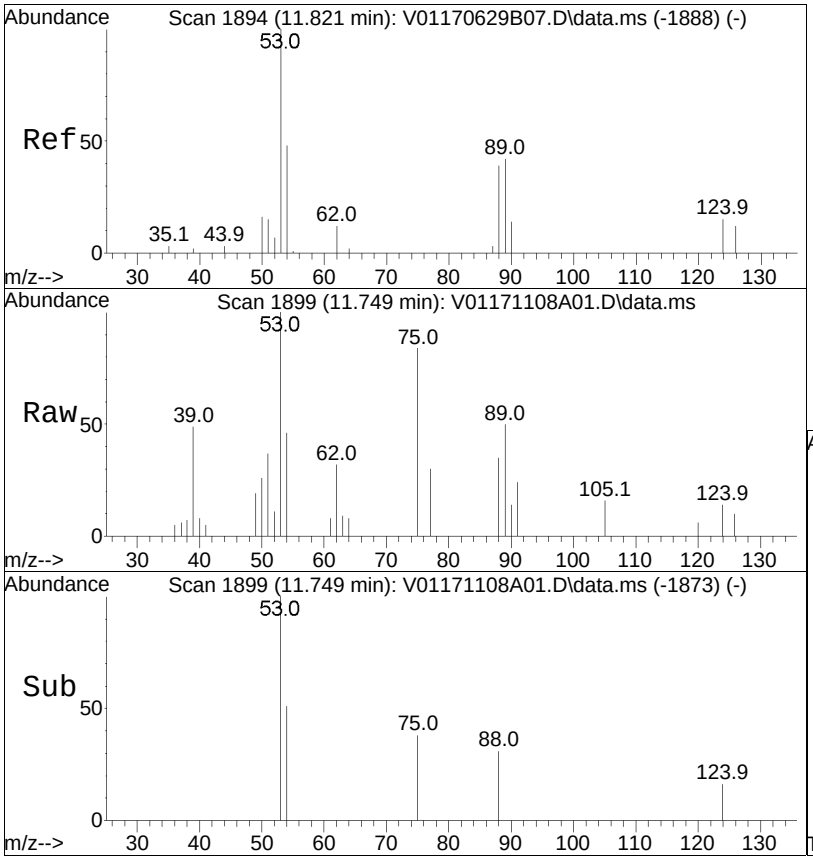


#91
1,2,3-Trichloropropane
Concen: 8.93 ug/L M1
RT: 11.689 min Scan# 1888
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 75 Resp: 28642

Ion	Ratio	Lower	Upper
75	100		
110	34.7	22.0	45.8
112	22.1	14.2	29.6

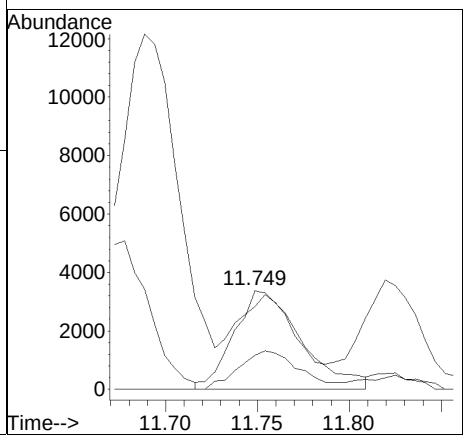


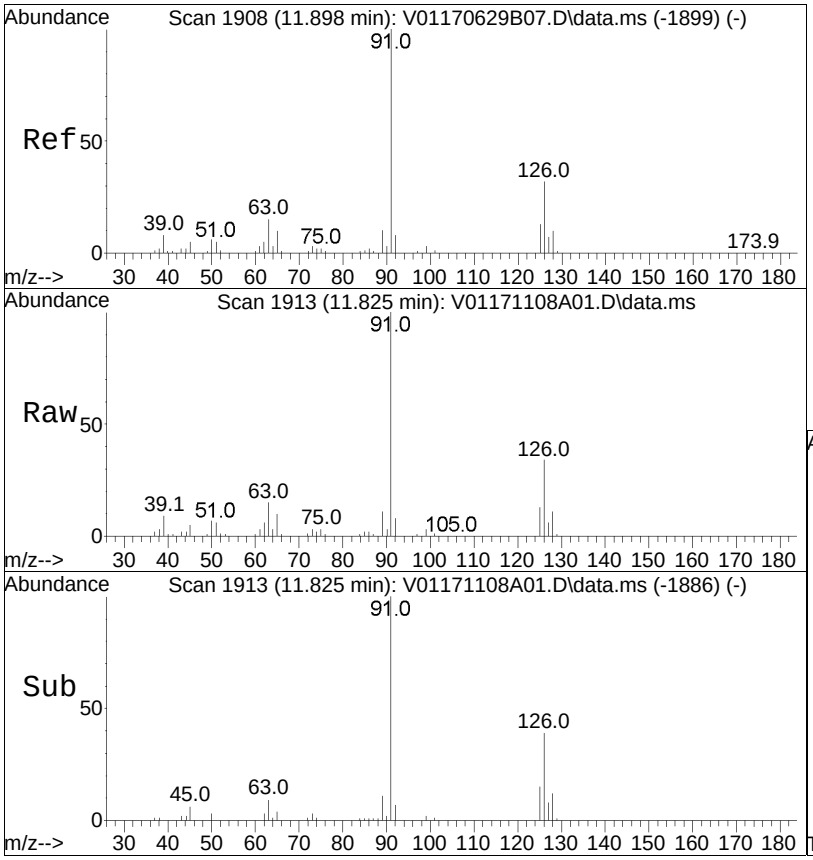


#92
trans-1,4-Dichloro-2-butene
Concen: 7.38 ug/L M1
RT: 11.749 min Scan# 1899
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 53 Resp: 8602

Ion	Ratio	Lower	Upper
53	100		
88	35.1	41.7	62.5#
75	71.6	81.3	121.9#

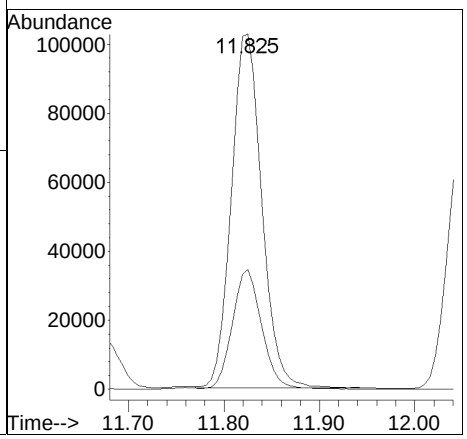


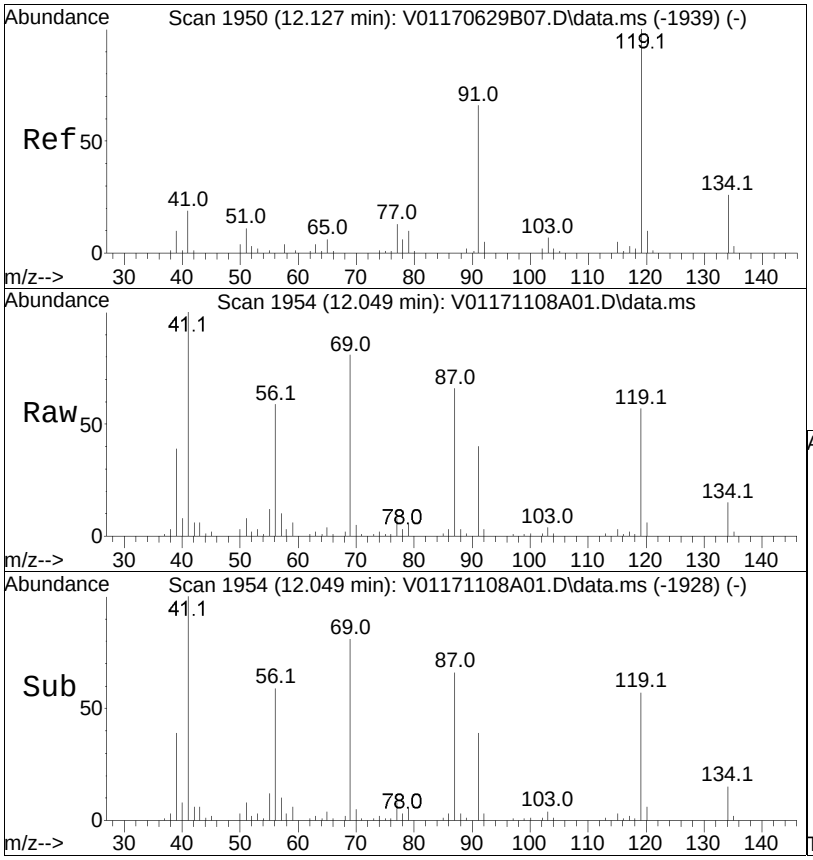


#93
4-Chlorotoluene
Concen: 9.19 ug/L
RT: 11.825 min Scan# 1913
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 91 Resp: 227876

Ion	Ratio	Lower	Upper
91	100		
126	32.8	23.7	35.5

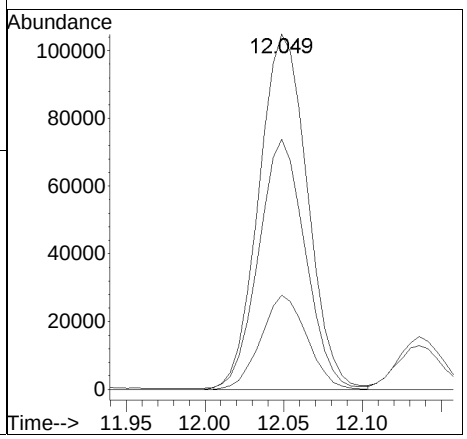


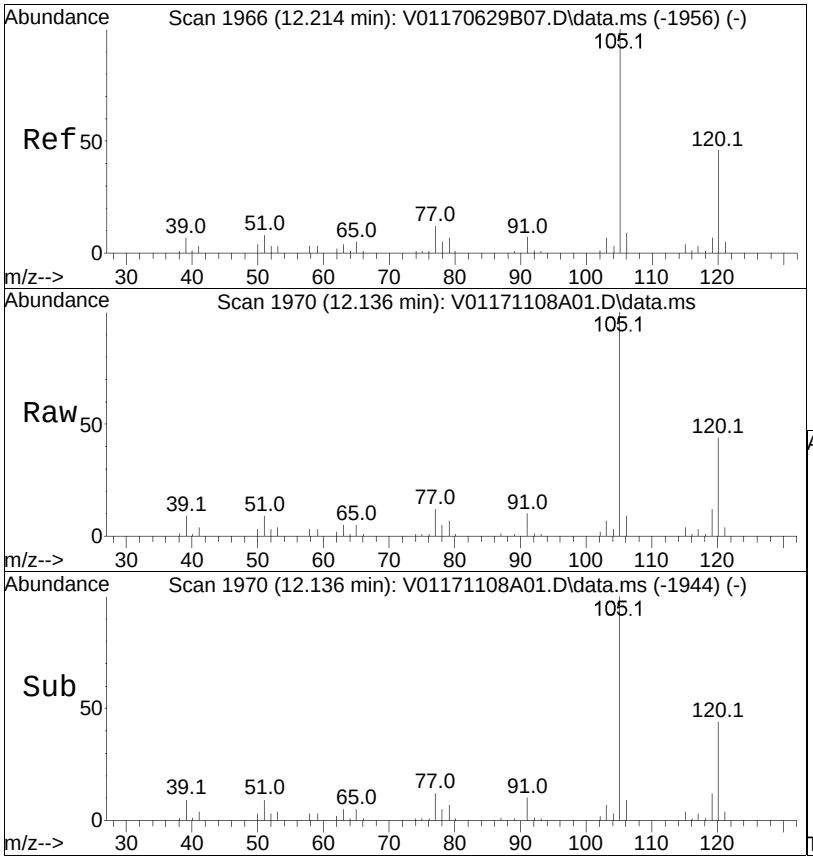


#94
tert-Butylbenzene
Concen: 9.25 ug/L
RT: 12.049 min Scan# 1954
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:119 Resp: 225052

Ion	Ratio	Lower	Upper
119	100		
91	67.4	60.2	90.4
134	25.1	19.9	29.9

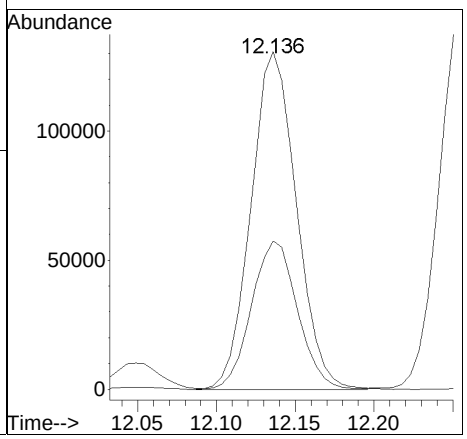


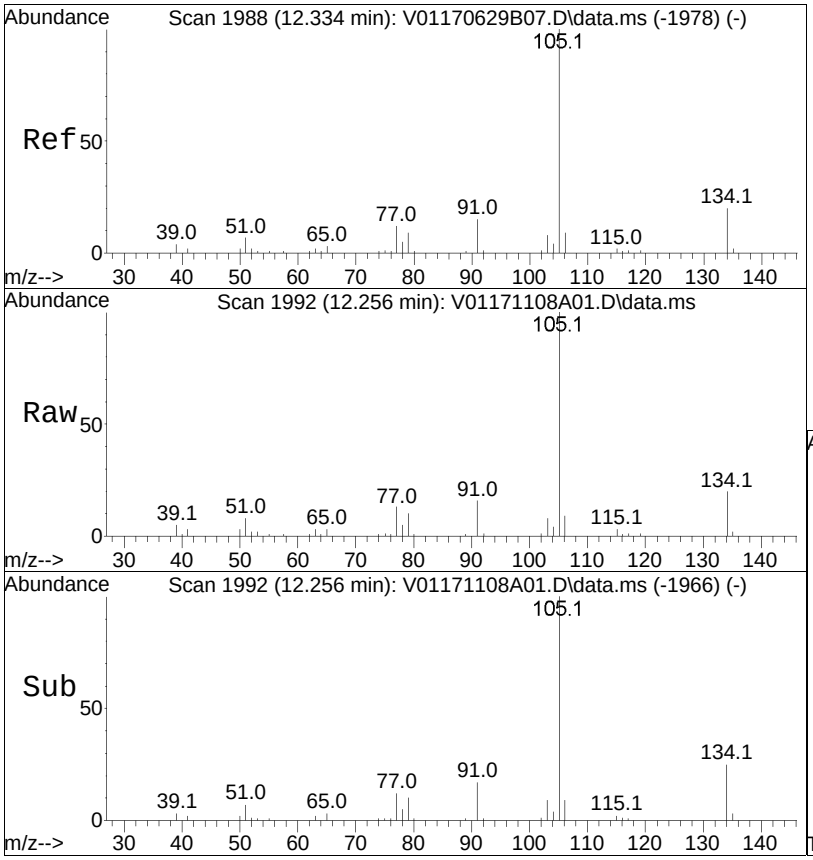


#97
1,2,4-Trimethylbenzene
Concen: 9.20 ug/L
RT: 12.136 min Scan# 1970
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:105 Resp: 262089

Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.0	52.6

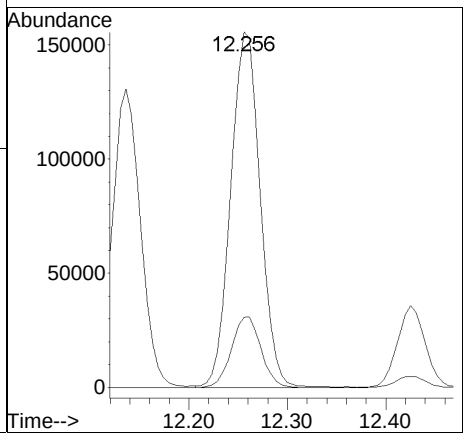


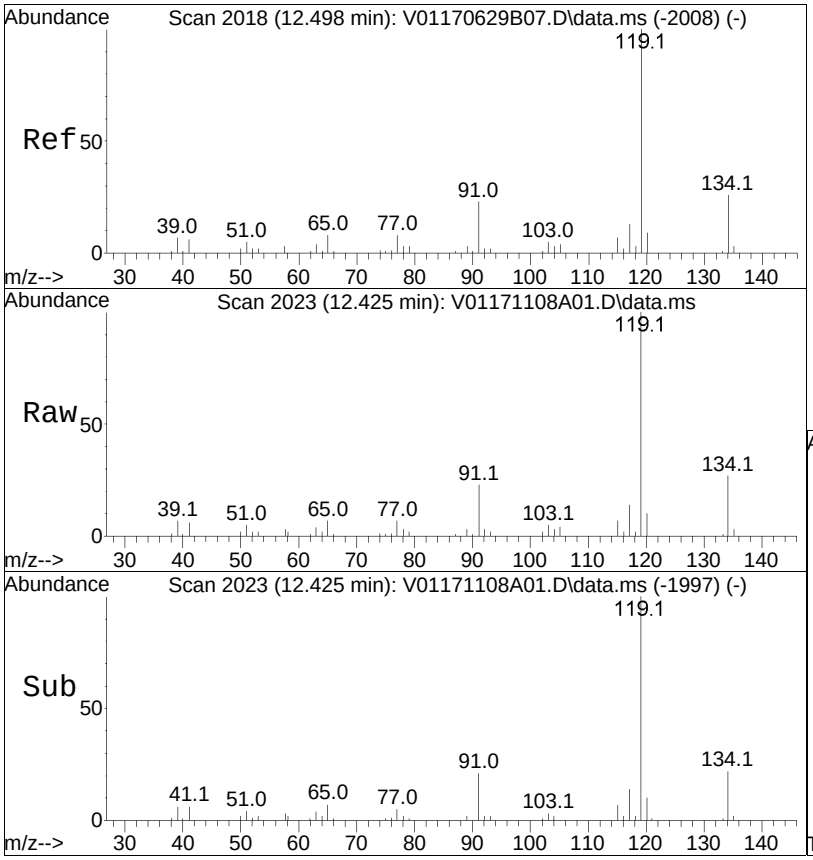


#98
sec-Butylbenzene
Concen: 9.44 ug/L
RT: 12.256 min Scan# 1992
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:105 Resp: 324109

Ion	Ratio	Lower	Upper
105	100		
134	19.7	12.5	26.1

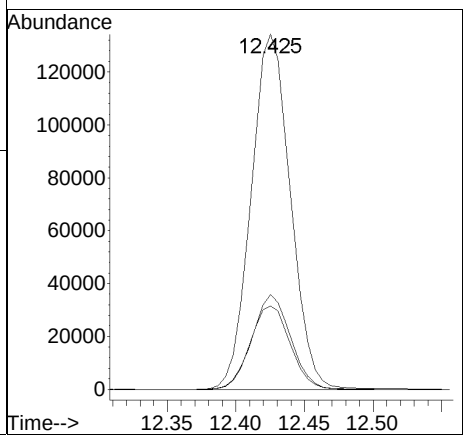


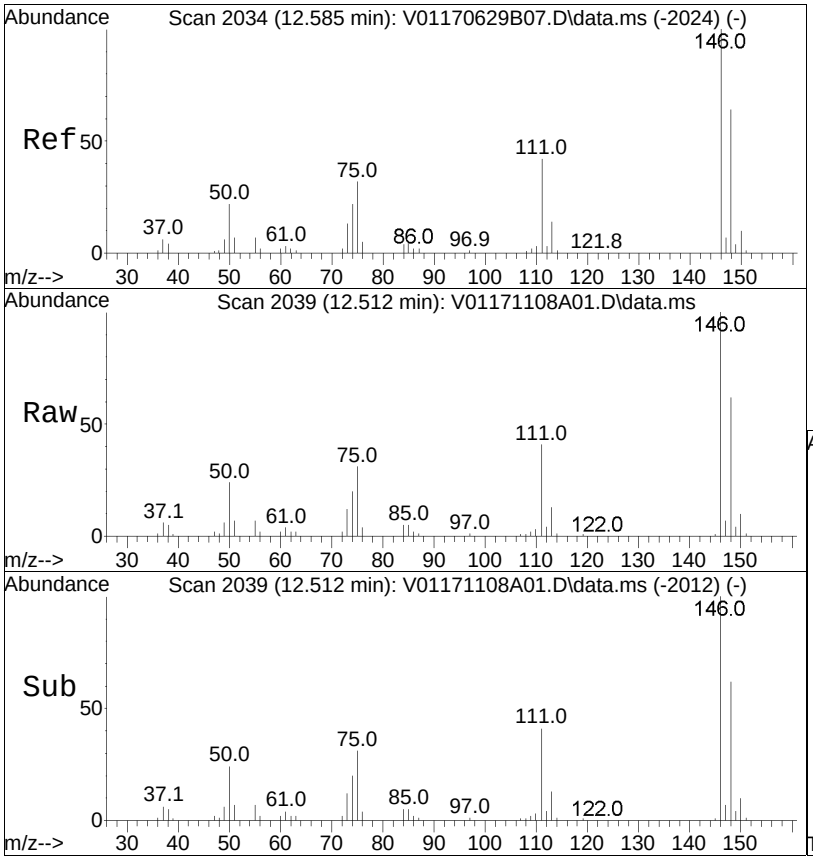


#99
p-Isopropyltoluene
Concen: 9.44 ug/L
RT: 12.425 min Scan# 2023
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:119 Resp: 267755

Ion	Ratio	Lower	Upper
119	100		
134	26.2	17.2	35.6
91	24.0	17.7	36.9

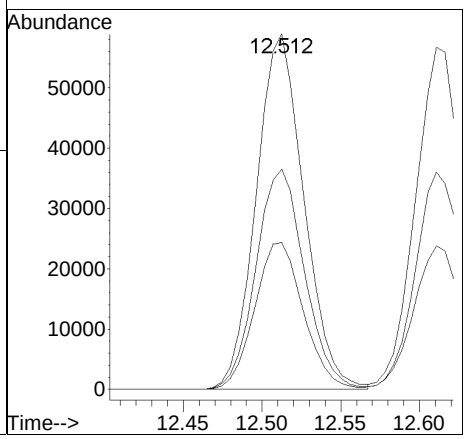


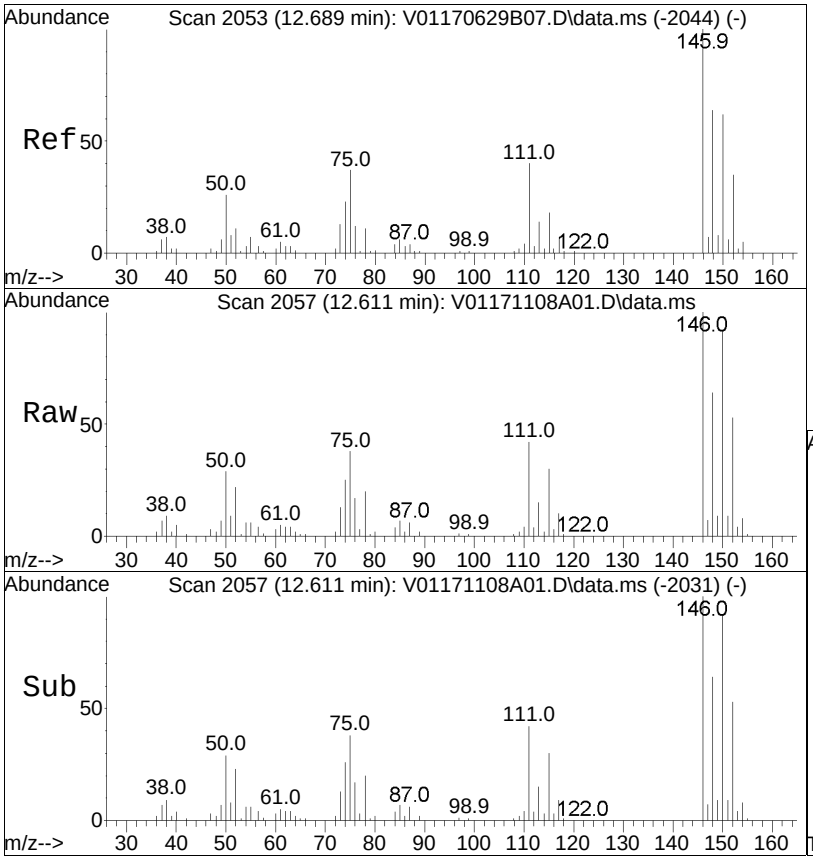


#100
1,3-Dichlorobenzene
Concen: 9.28 ug/L
RT: 12.512 min Scan# 2039
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:146 Resp: 124010

Ion	Ratio	Lower	Upper
146	100		
111	42.2	28.7	59.5
148	63.3	41.1	85.5

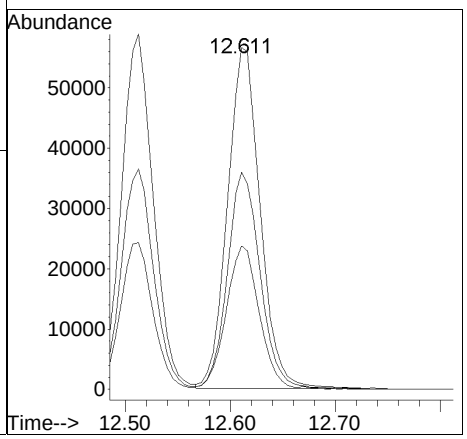


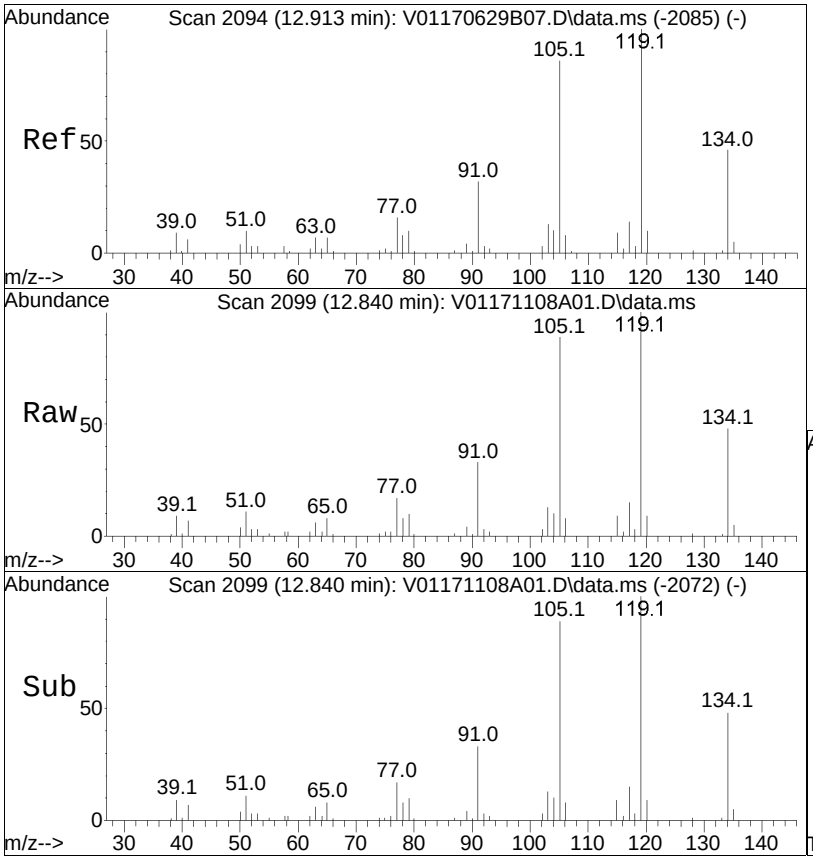


#101
1,4-Dichlorobenzene
Concen: 9.18 ug/L
RT: 12.611 min Scan# 2057
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:146 Resp: 121925

Ion	Ratio	Lower	Upper
146	100		
111	43.2	35.0	52.4
148	64.6	51.0	76.6

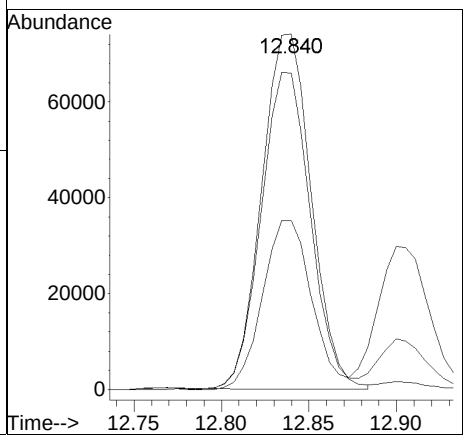


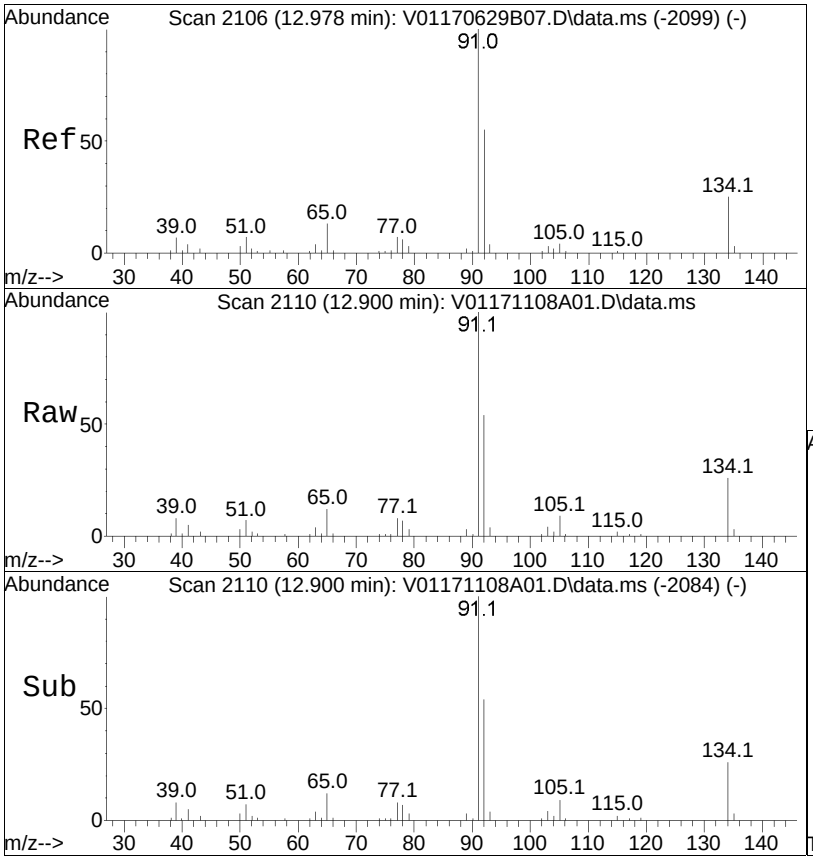


#102
p-Diethylbenzene
Concen: 9.35 ug/L
RT: 12.840 min Scan# 2099
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:119 Resp: 146009

Ion	Ratio	Lower	Upper
119	100		
105	89.1	57.7	119.9
134	47.2	30.0	62.2

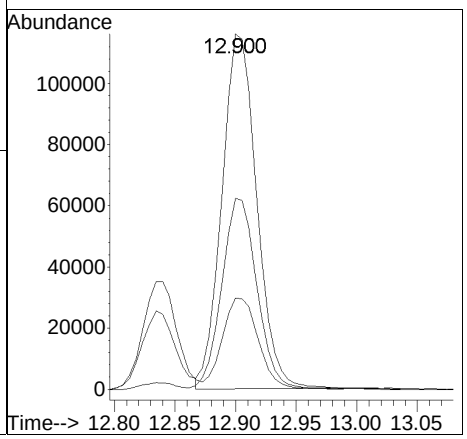


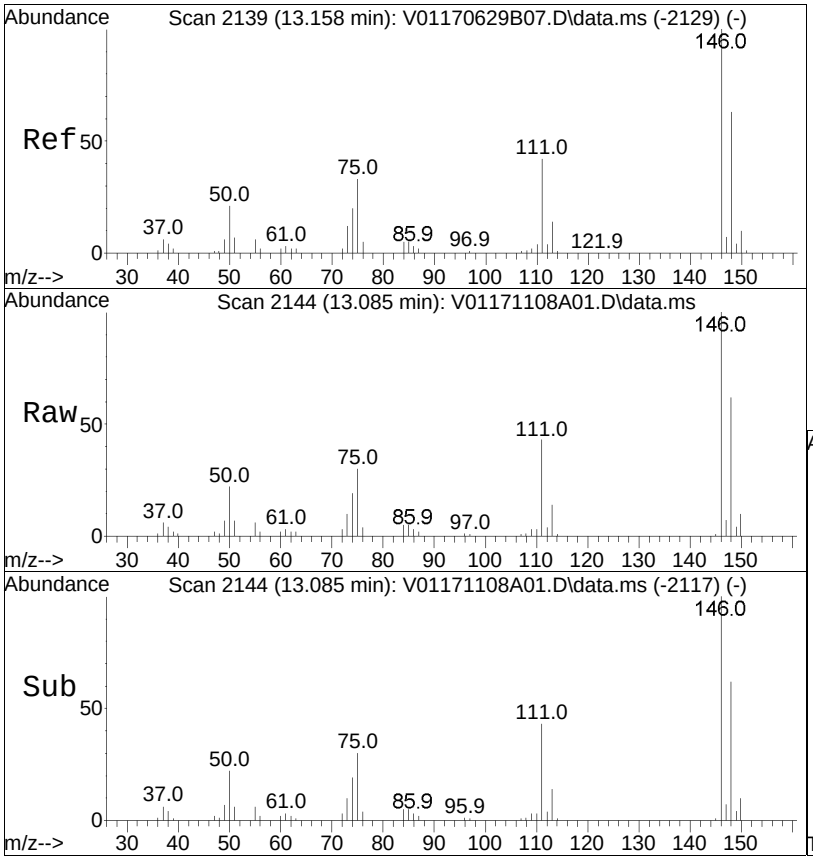


#103
n-Butylbenzene
Concen: 9.59 ug/L
RT: 12.900 min Scan# 2110
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion: 91 Resp: 231829

Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.4	65.0
134	26.3	19.0	28.4

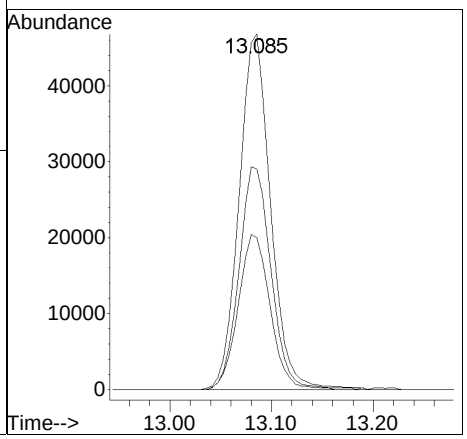


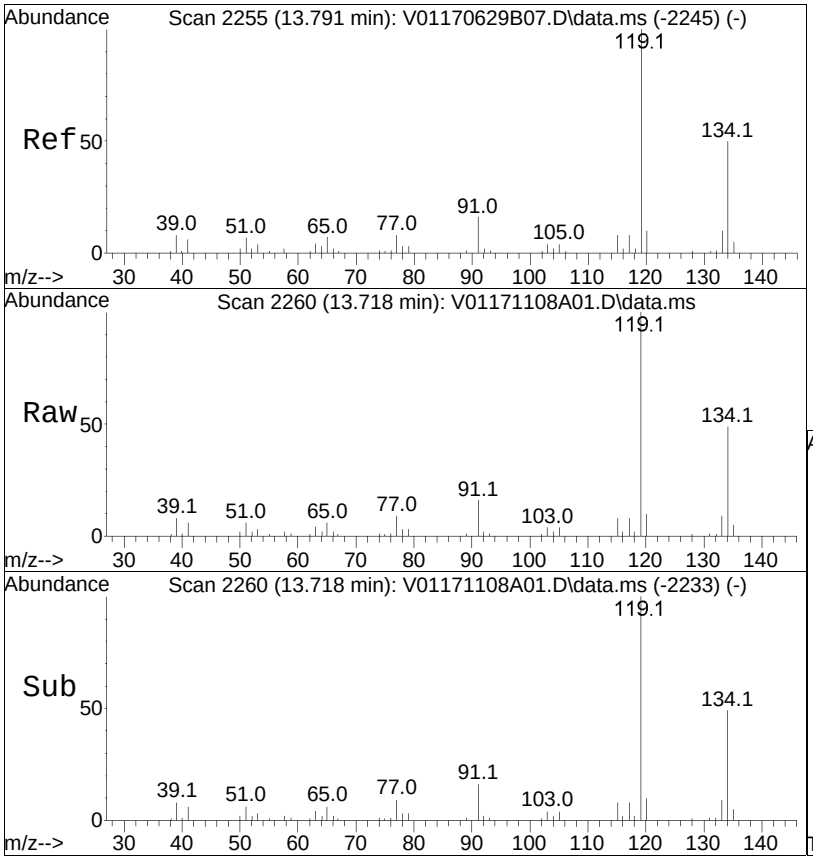


#104
1,2-Dichlorobenzene
Concen: 9.08 ug/L
RT: 13.085 min Scan# 2144
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:146 Resp: 101003

Ion	Ratio	Lower	Upper
146	100		
111	44.1	29.1	60.3
148	63.7	40.8	84.8

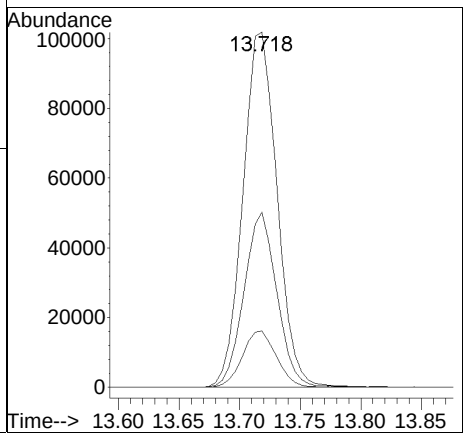


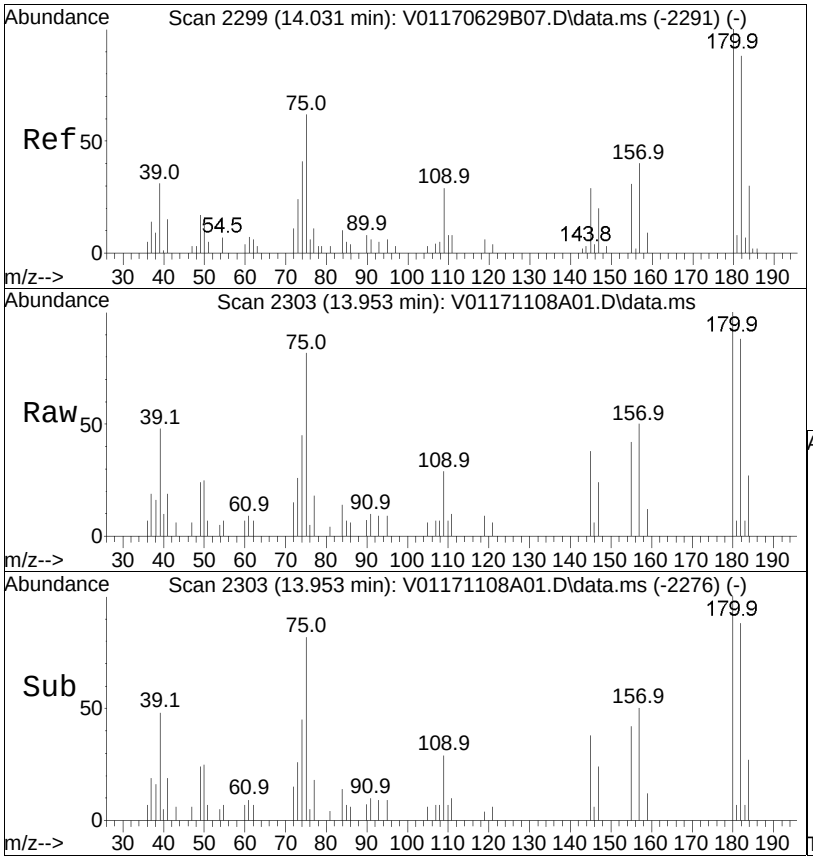


#105
1,2,4,5-Tetramethylbenzene
Concen: 9.19 ug/L
RT: 13.718 min Scan# 2260
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:119 Resp: 199866

Ion	Ratio	Lower	Upper
119	100		
134	47.6	29.3	60.9
91	15.9	11.8	24.4

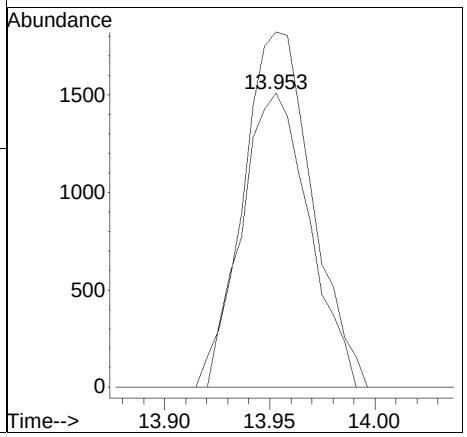


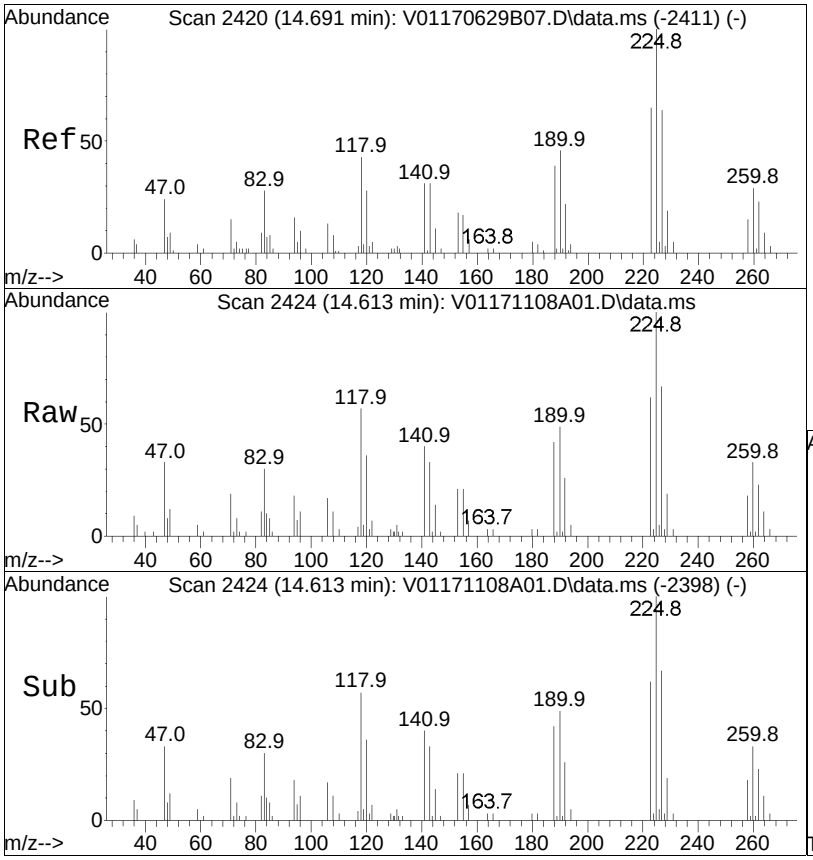


#106
1,2-Dibromo-3-chloropropane
Concen: 8.04 ug/L
RT: 13.953 min Scan# 2303
Delta R.T. -0.001 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:155 Resp: 3373

Ion	Ratio	Lower	Upper
155	100		
157	123.8	99.2	148.8

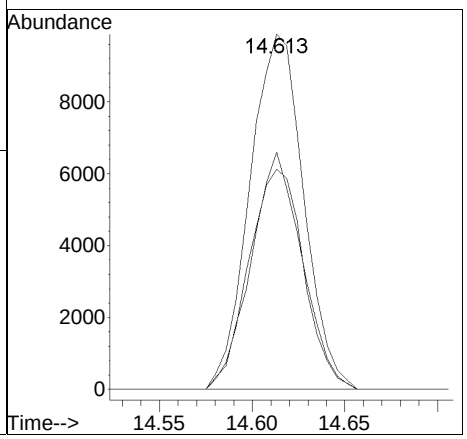


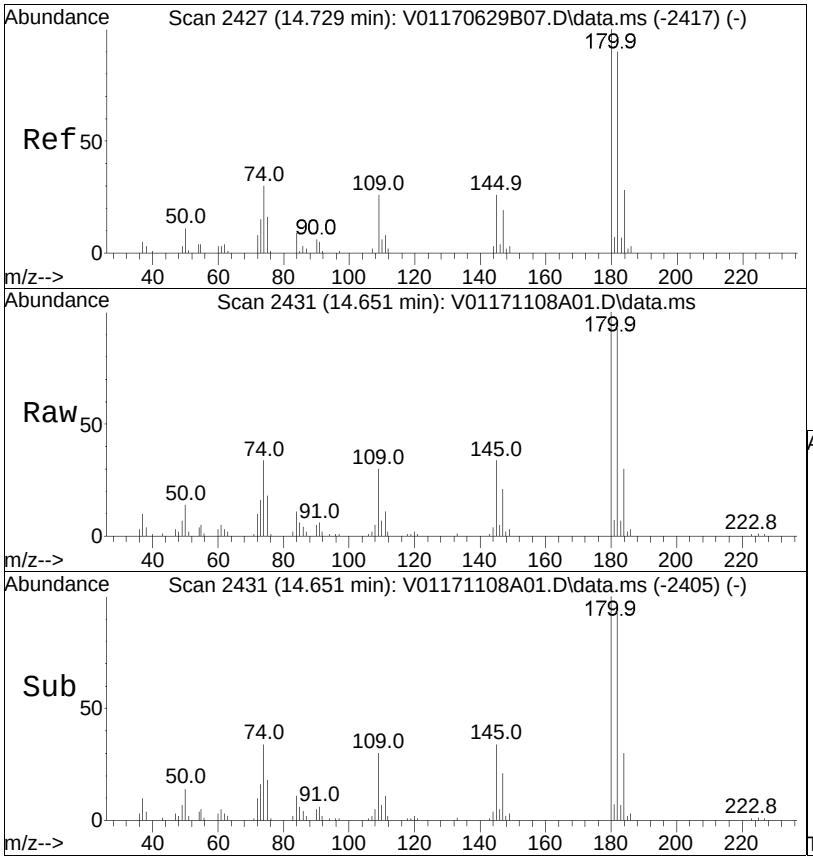


#108
Hexachlorobutadiene
Concen: 8.61 ug/L
RT: 14.613 min Scan# 2424
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:225 Resp: 19974

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.7	76.1
227	63.2	53.5	80.3

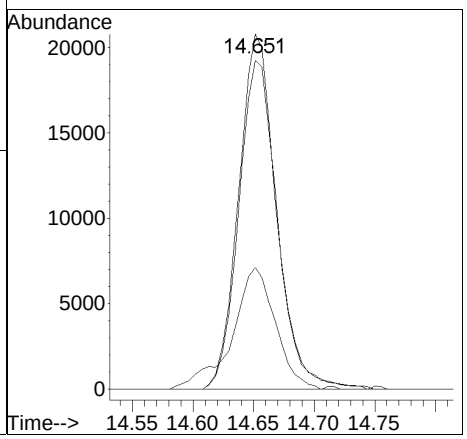


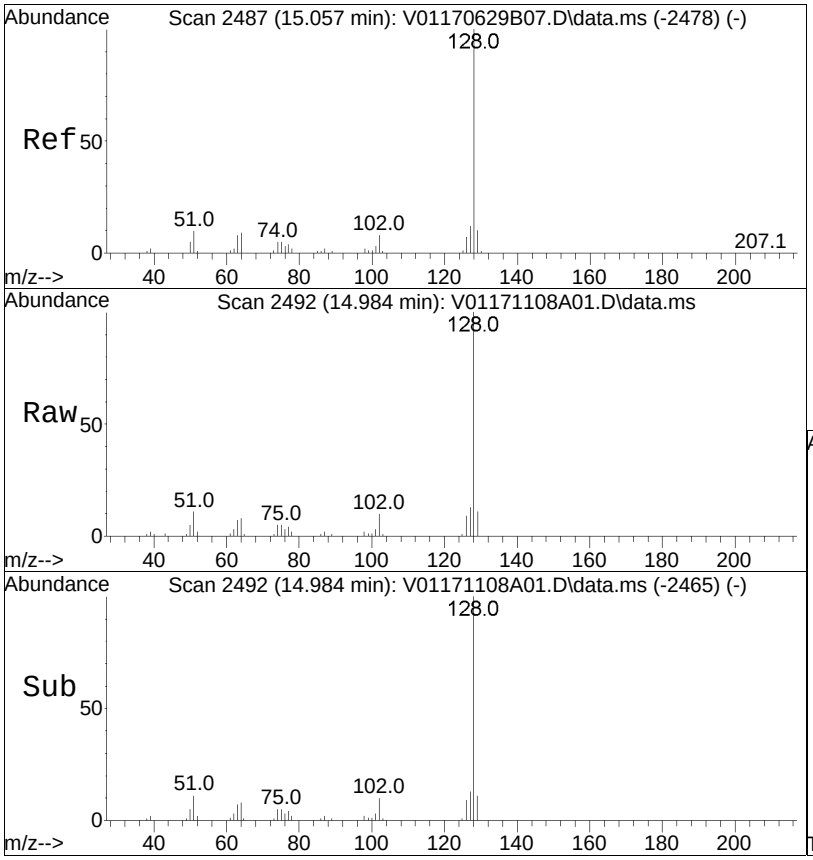


#109
1,2,4-Trichlorobenzene
Concen: 8.70 ug/L
RT: 14.651 min Scan# 2431
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:180 Resp: 45233

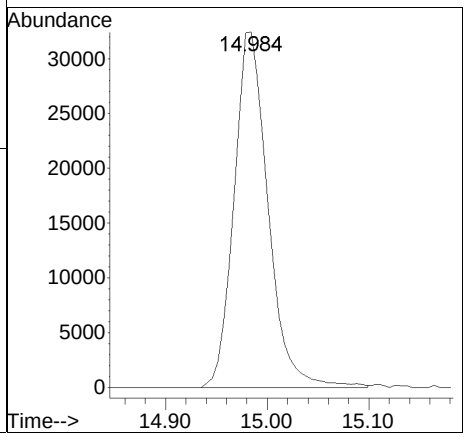
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.0	112.4
145	39.3	28.5	42.7

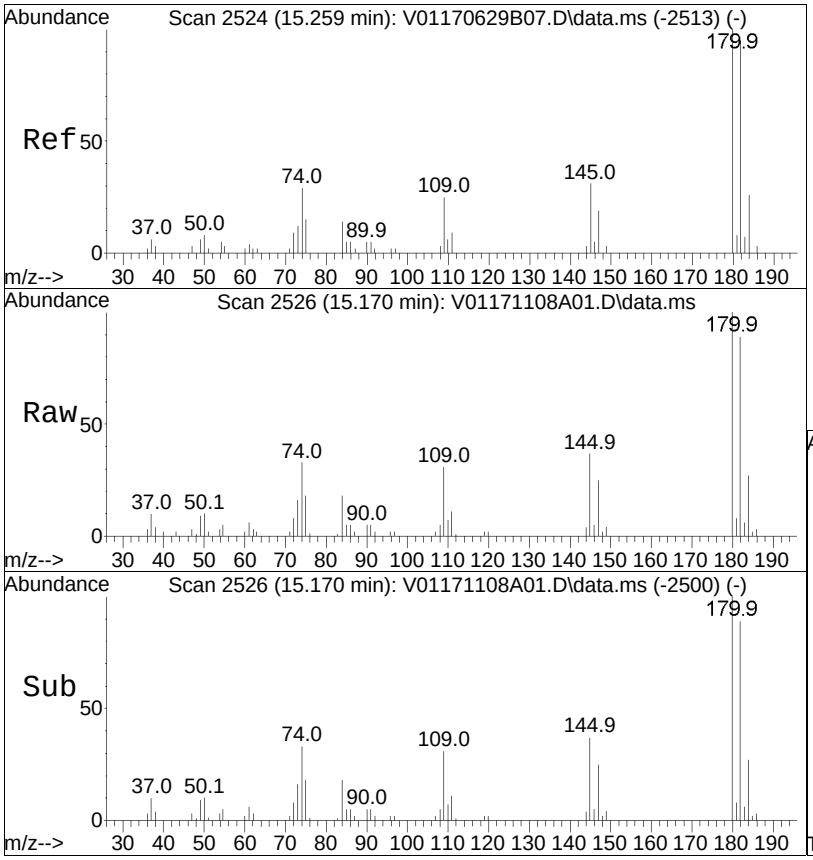




#110
Naphthalene
Concen: 8.54 ug/L
RT: 14.984 min Scan# 2492
Delta R.T. -0.002 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:128 Resp: 75504

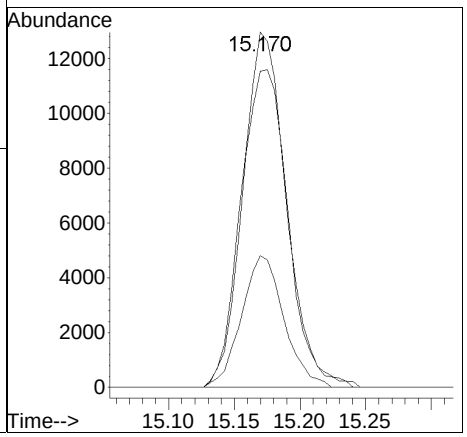




#111
1,2,3-Trichlorobenzene
Concen: 8.63 ug/L
RT: 15.170 min Scan# 2526
Delta R.T. -0.007 min
Lab File: V01171108A01.D
Acq: 8 Nov 2017 8:10 am

Tgt Ion:180 Resp: 30475

Ion	Ratio	Lower	Upper
180	100		
182	93.5	73.3	109.9
145	35.5	26.2	39.4

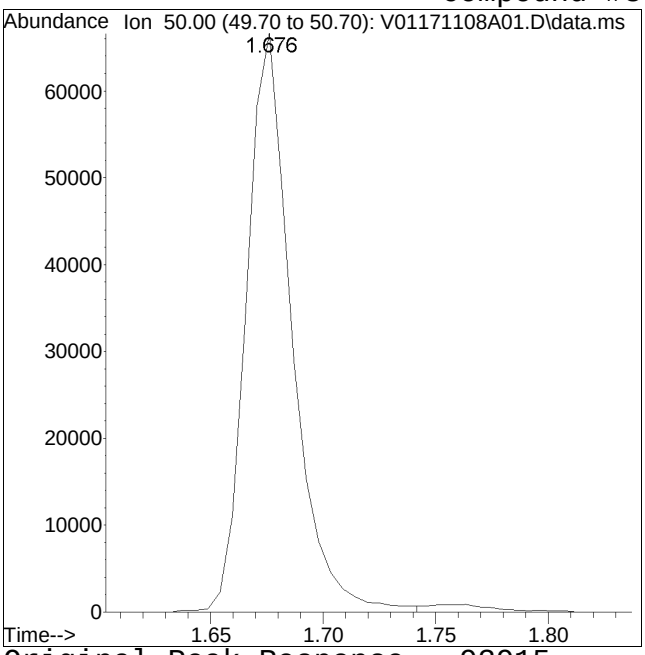


Manual Integration Report

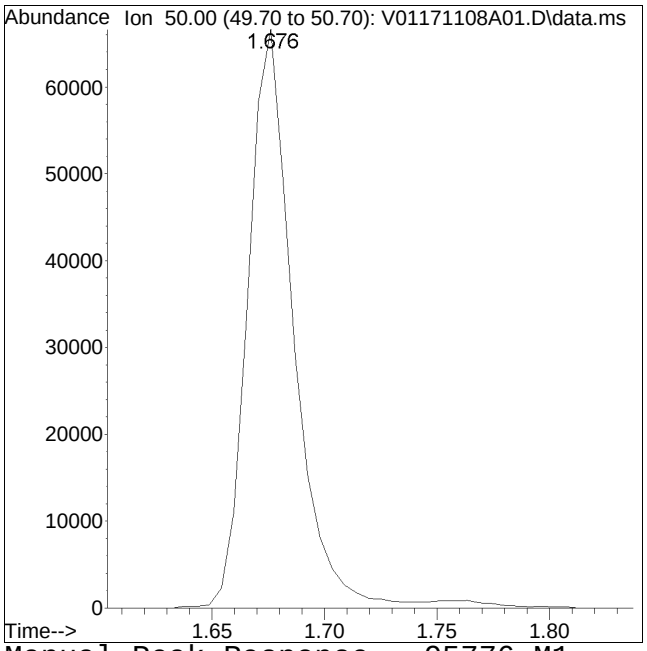
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A01.D
Date Inj'd : 11/8/2017 8:10 am
Sample : WG1060957-3,31,10,10

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 8:49 am

Compound #3: Chloromethane



Original Peak Response = 93915



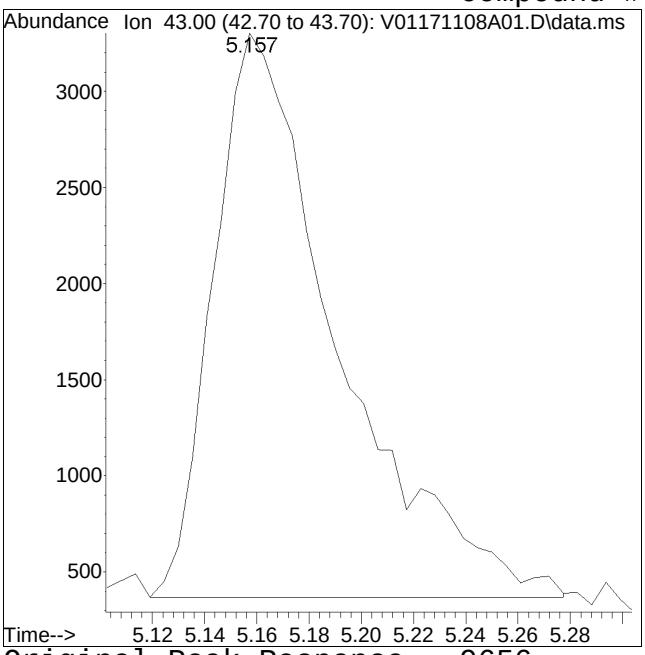
Manual Peak Response = 95776 M1

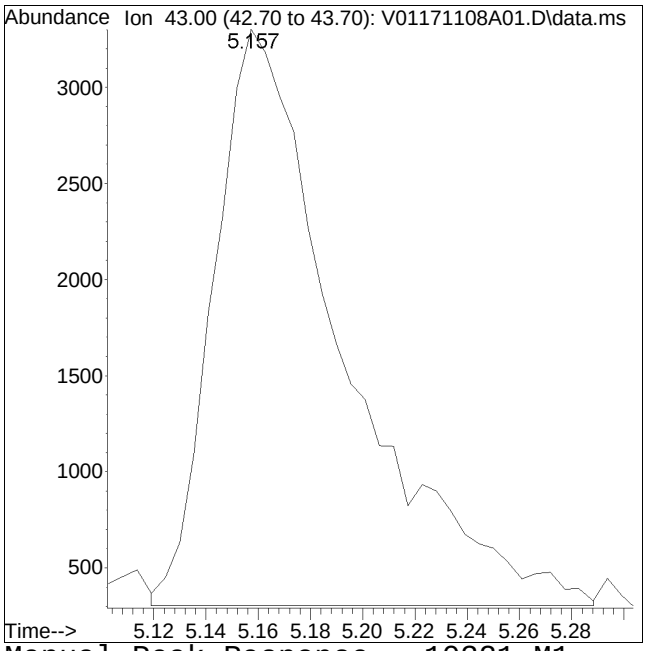
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-3,31,10,10 Quant Date : 11/8/2017 8:49 am

Compound #39: 2-Butanone



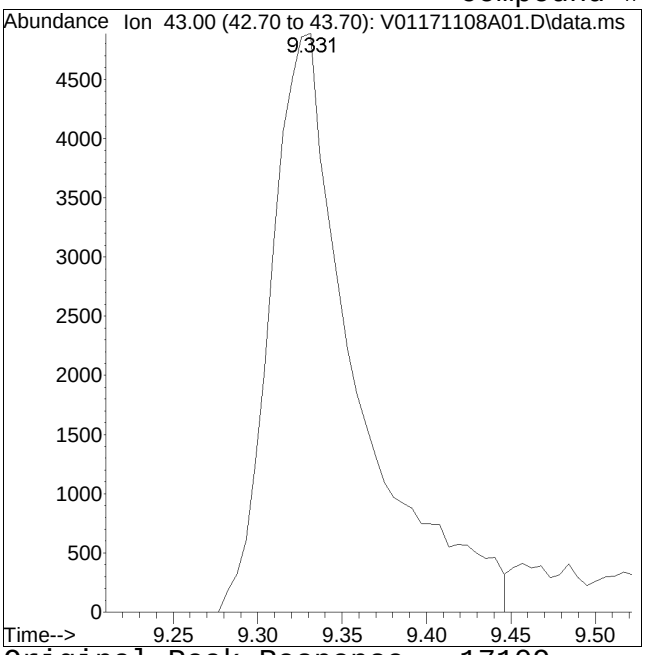


Original Peak Response = 9656 Manual Peak Response = 10321 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

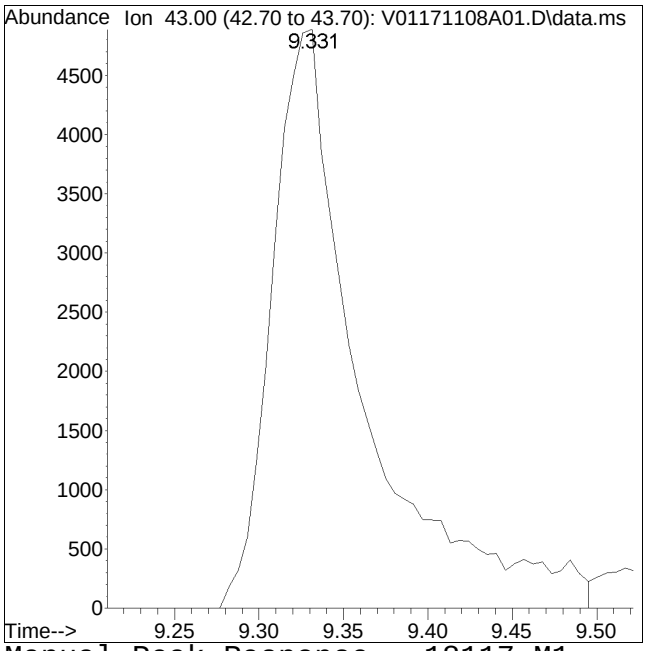
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-3,31,10,10 Quant Date : 11/8/2017 8:49 am

Compound #72: 2-Hexanone



Original Peak Response = 17109



Manual Peak Response = 18117 M1

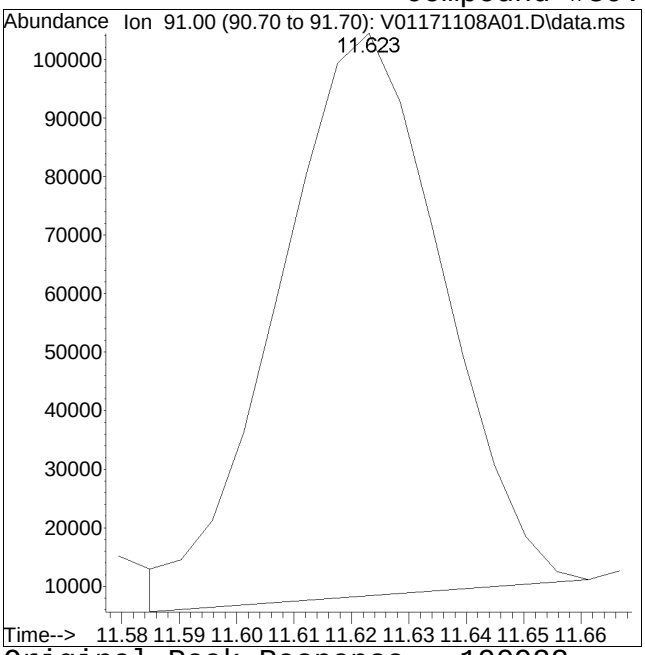
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

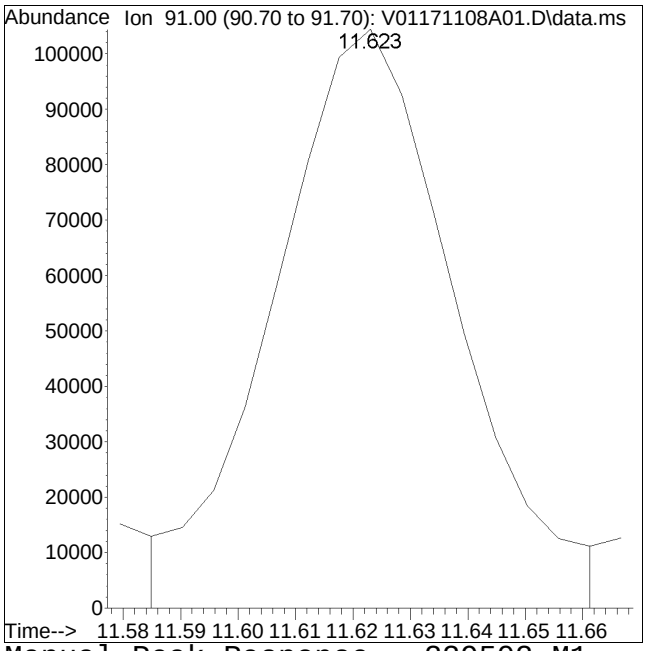
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A01.D
Date Inj'd : 11/8/2017 8:10 am
Sample : WG1060957-3,31,10,10

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 8:49 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 190922



Manual Peak Response = 229502 M1

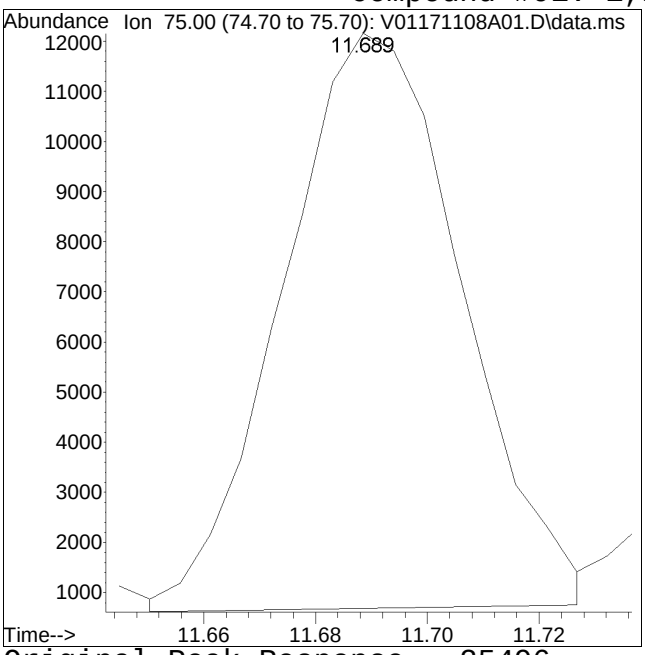
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

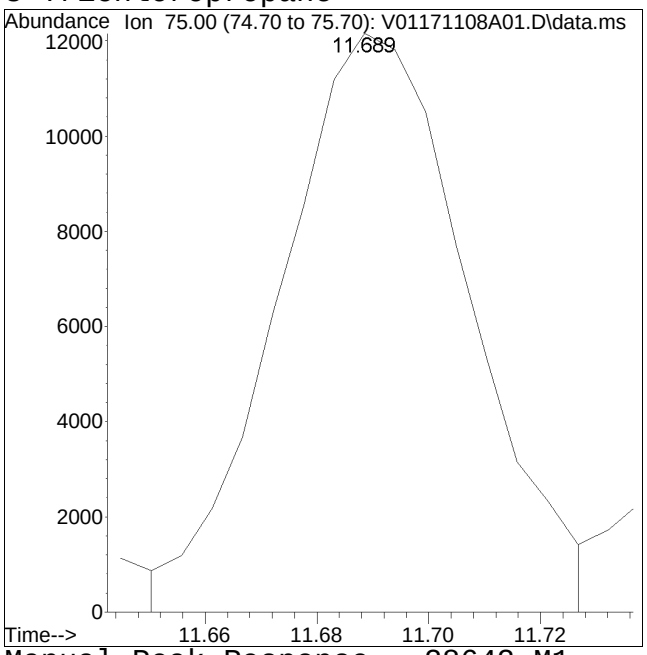
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A01.D
Date Inj'd : 11/8/2017 8:10 am
Sample : WG1060957-3,31,10,10

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 8:49 am

Compound #91: 1,2,3-Trichloropropane



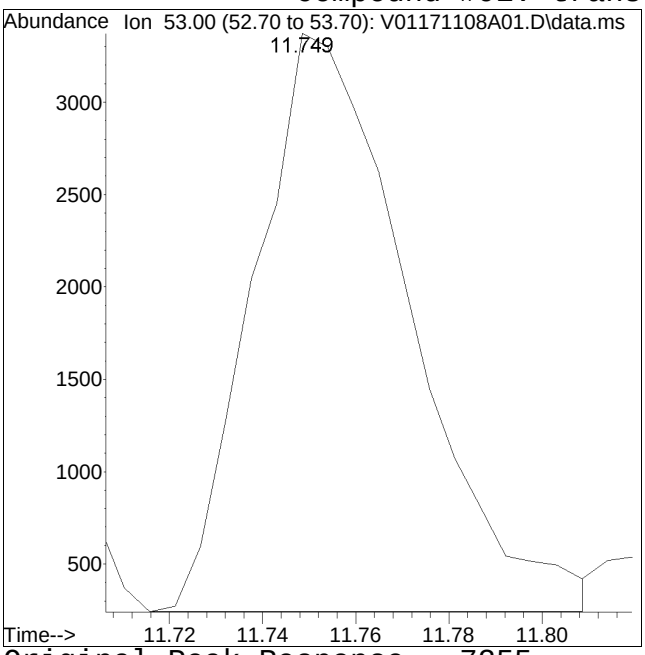


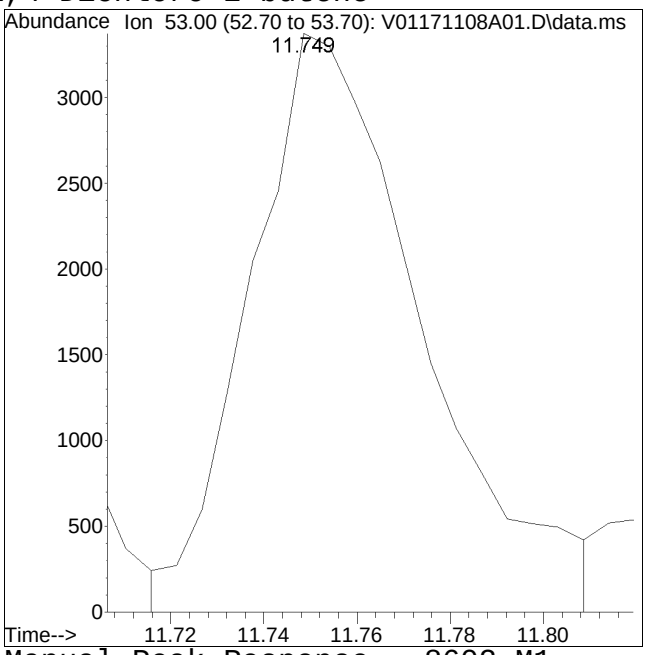
Original Peak Response = 25496 Manual Peak Response = 28642 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A01.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:10 am Instrument : VOA 101
Sample : WG1060957-3,31,10,10 Quant Date : 11/8/2017 8:49 am

Compound #92: trans-1,4-Dichloro-2-butene





Original Peak Response = 7255 Manual Peak Response = 8602 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A03.D
Acq On : 08 Nov 2017 08:35 am
Operator : VOA122:PD
Sample : WG1060967-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 08 09:05:30 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	273510	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery = 101.65%			
62) Chlorobenzene-d5	9.646	117	209238	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery = 99.59%			
83) 1,4-Dichlorobenzene-d4	12.341	152	107235	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery = 100.13%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.266	113	67823	9.595	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.95%			
46) 1,2-Dichloroethane-d4	5.802	65	71152	10.875	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.75%			
63) Toluene-d8	7.790	98	276567	10.996	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.96%			
87) 4-Bromofluorobenzene	11.133	95	102006	11.011	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.11%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.629	85	58871	10.746	ug/L	98
3) Chloromethane	1.827	50	52305	8.381	ug/L	99
4) Vinyl chloride	1.894	62	77158	9.879	ug/L	98
5) Bromomethane	2.216	94	17270	3.377	ug/L	90
6) Chloroethane	2.348	64	47578	10.127	ug/L	99
7) Trichlorofluoromethane	2.490	101	98664	9.171	ug/L	100
8) Ethyl ether	2.794	74	27059	8.103	ug/L #	1
10) 1,1-Dichloroethene	2.992	96	53943	8.123	ug/L	86
11) Carbon disulfide	3.011	76	143029	8.385	ug/L	99
15) Methylene chloride	3.551	84	59663	8.430	ug/L	89
17) Acetone	3.599	43	7822	9.151	ug/L	99
18) trans-1,2-Dichloroethene	3.703	96	61883	8.066	ug/L	92
21) Methyl tert-butyl ether	3.807	73	127966	7.799	ug/L	94
25) 1,1-Dichloroethane	4.299	63	110097	9.075	ug/L	99
27) Acrylonitrile	4.347	53	11678	9.624	ug/L	95
29) Vinyl acetate	4.546	43	106019	9.492	ug/L #	94
30) cis-1,2-Dichloroethene	4.820	96	67903	8.250	ug/L	92
31) 2,2-Dichloropropane	4.934	77	93021	8.863	ug/L	92
32) Bromochloromethane	5.010	128	28968	8.361	ug/L #	87
34) Chloroform	5.086	83	109527	8.687	ug/L	97

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A03.D
Acq On : 08 Nov 2017 08:35 am
Operator : VOA122:PD
Sample : WG1060967-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 08 09:05:30 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Carbon tetrachloride	5.228	117	89862	9.030	ug/L		99
39) 1,1,1-Trichloroethane	5.294	97	102120	8.521	ug/L		97
41) 2-Butanone	5.398	43	12859	10.292	ug/L		93
42) 1,1-Dichloropropene	5.417	75	85366	8.625	ug/L		98
44) Benzene	5.668	78	266525	9.009	ug/L		94
47) 1,2-Dichloroethane	5.864	62	71240	9.278	ug/L		99
51) Trichloroethene	6.256	95	65582	8.580	ug/L		97
53) Dibromomethane	6.700	93	30836	10.830	ug/L	#	83
54) 1,2-Dichloropropane	6.813	63	59127	9.209	ug/L		99
57) Bromodichloromethane	6.875	83	81789	8.532	ug/L		90
60) 1,4-Dioxane	7.092	88	4671	404.893	ug/L	#	13
61) cis-1,3-Dichloropropene	7.582	75	89126	8.080	ug/L		93
64) Toluene	7.856	92	160271	9.427	ug/L		99
65) 4-Methyl-2-pentanone	8.301	58	11569	9.306	ug/L		92
66) Tetrachloroethene	8.292	166	70003	7.958	ug/L		93
68) trans-1,3-Dichloropropene	8.330	75	76106	9.055	ug/L		94
71) 1,1,2-Trichloroethane	8.519	83	37469	9.318	ug/L		97
72) Chlorodibromomethane	8.728	129	54192	8.543	ug/L		97
73) 1,3-Dichloropropane	8.851	76	76978	9.435	ug/L		100
74) 1,2-Dibromoethane	9.012	107	42812	8.399	ug/L		99
76) 2-Hexanone	9.315	43	18206	10.077	ug/L		94
77) Chlorobenzene	9.665	112	176442	8.923	ug/L		97
78) Ethylbenzene	9.712	91	310209	9.284	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.750	131	59308	8.601	ug/L		97
80) p/m Xylene	9.902	106	244858	18.295	ug/L		97
81) o Xylene	10.442	106	261048	21.256	ug/L		89
82) Styrene	10.517	104	177148	8.940	ug/L		98
84) Bromoform	10.517	173	23230	5.648	ug/L		98
86) Isopropylbenzene	10.820	105	335826	10.025	ug/L		98
88) Bromobenzene	11.247	156	70519	8.699	ug/L		98
89) n-Propylbenzene	11.294	91	392393	10.289	ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.370	83	48153	9.682	ug/L		100
92) 4-Ethyltoluene	11.427	105	314670	10.241	ug/L		100
93) 2-Chlorotoluene	11.455	91	251983	10.229	ug/L		98
94) 1,3,5-Trimethylbenzene	11.521	105	266544	10.157	ug/L		98
95) 1,2,3-Trichloropropane	11.521	75	39527	9.902	ug/L		99
96) trans-1,4-Dichloro-2-b...	11.569	53	10288	8.207	ug/L	#	79
97) 4-Chlorotoluene	11.645	91	228911	10.201	ug/L		98
98) tert-Butylbenzene	11.863	119	294837	12.257	ug/L		91

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A03.D
Acq On : 08 Nov 2017 08:35 am
Operator : VOA122:PD
Sample : WG1060967-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 08 09:05:30 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	11.936	105	324971	12.369	ug/L	100
102) sec-Butylbenzene	12.048	105	346566	10.176	ug/L	99
103) p-Isopropyltoluene	12.203	119	298620	10.103	ug/L	98
104) 1,3-Dichlorobenzene	12.264	146	146852	9.355	ug/L	97
105) 1,4-Dichlorobenzene	12.359	146	143121	9.229	ug/L	98
106) p-Diethylbenzene	12.574	119	169677	9.898	ug/L	98
107) n-Butylbenzene	12.635	91	271020	10.494	ug/L	97
108) 1,2-Dichlorobenzene	12.781	146	130745	9.271	ug/L	97
109) 1,2,4,5-Tetramethylben...	13.368	119	237970	9.395	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.558	155	6306	7.677	ug/L	96
112) Hexachlorobutadiene	14.170	225	32035	6.061	ug/L	98
113) 1,2,4-Trichlorobenzene	14.188	180	76041	7.323	ug/L	97
114) Naphthalene	14.490	128	150547	8.208	ug/L	100
115) 1,2,3-Trichlorobenzene	14.653	180	65332	6.989	ug/L	97

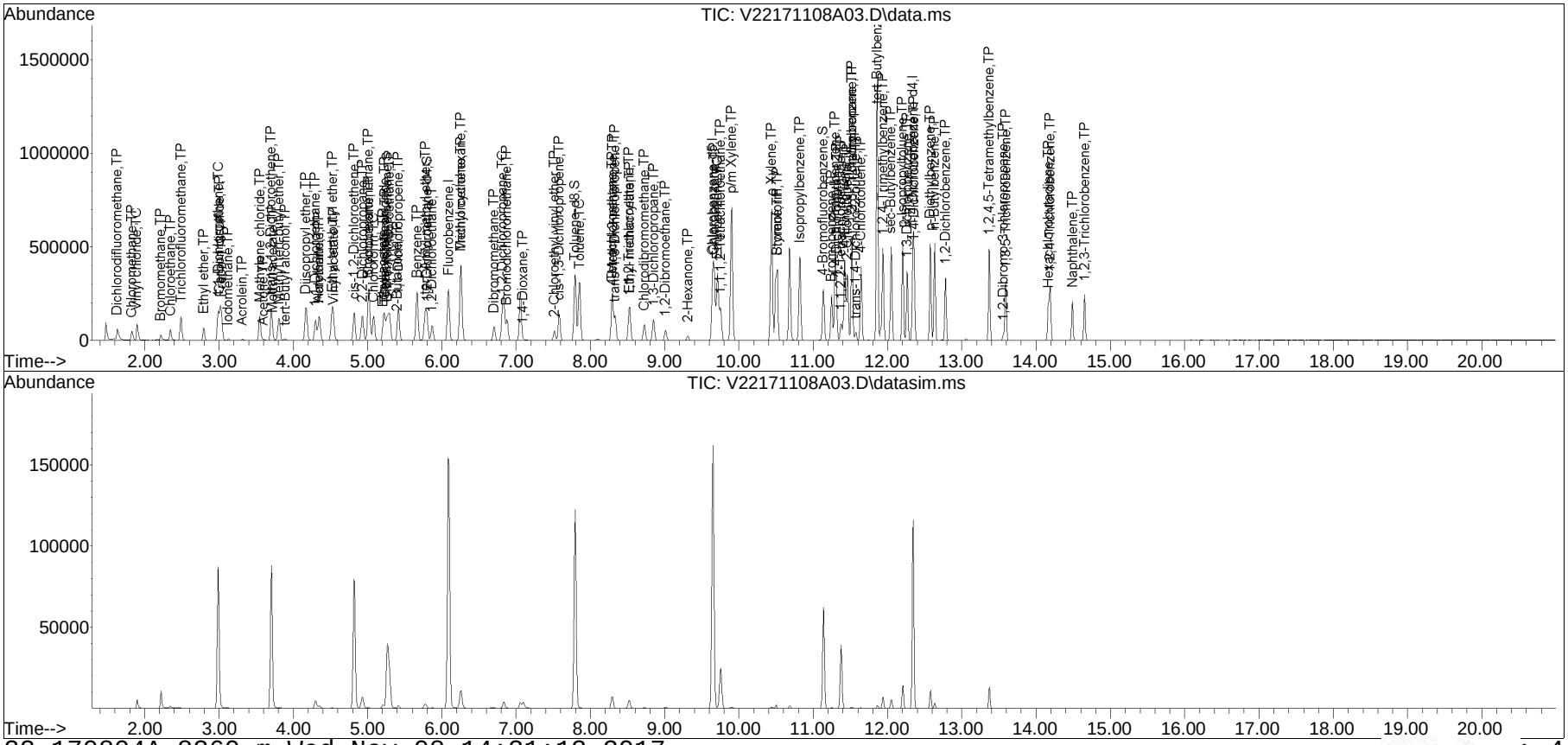
(#) = qualifier out of range (m) = manual integration (+) = signals summed

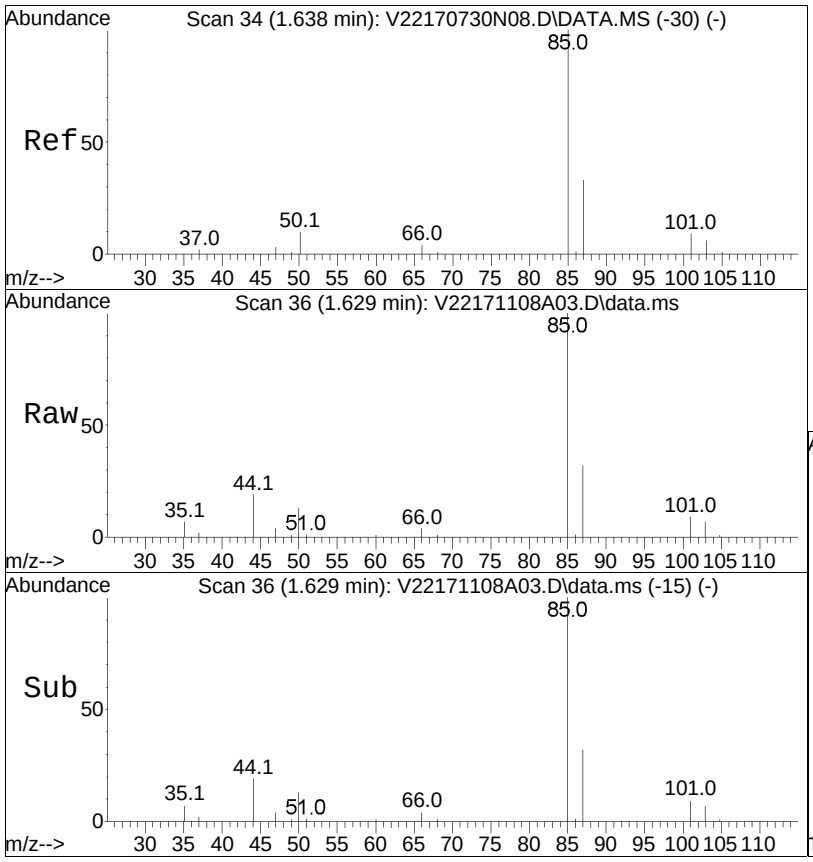
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A03.D
Acq On : 08 Nov 2017 08:35 am
Operator : VOA122:PD
Sample : WG1060967-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 08 09:05:30 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox71108A\V22171108A02.D•

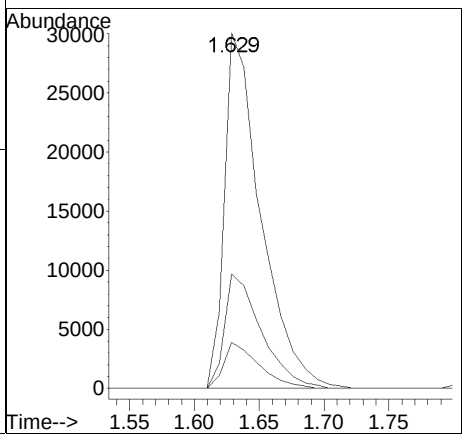


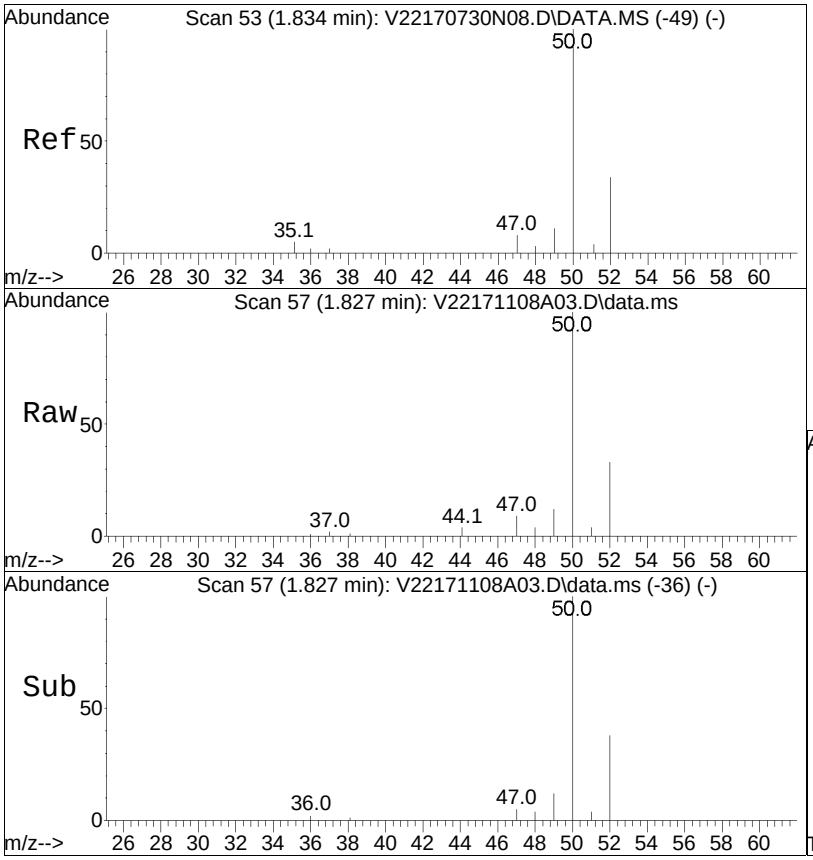


#2
Dichlorodifluoromethane
Concen: 10.75 ug/L
RT: 1.629 min Scan# 36
Delta R.T. 0.001 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 85 Resp: 58871

Ion	Ratio	Lower	Upper
85	100		
87	32.5	20.7	42.9
50	12.6	6.8	14.2

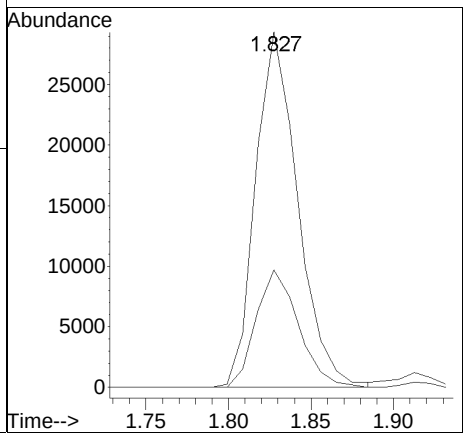


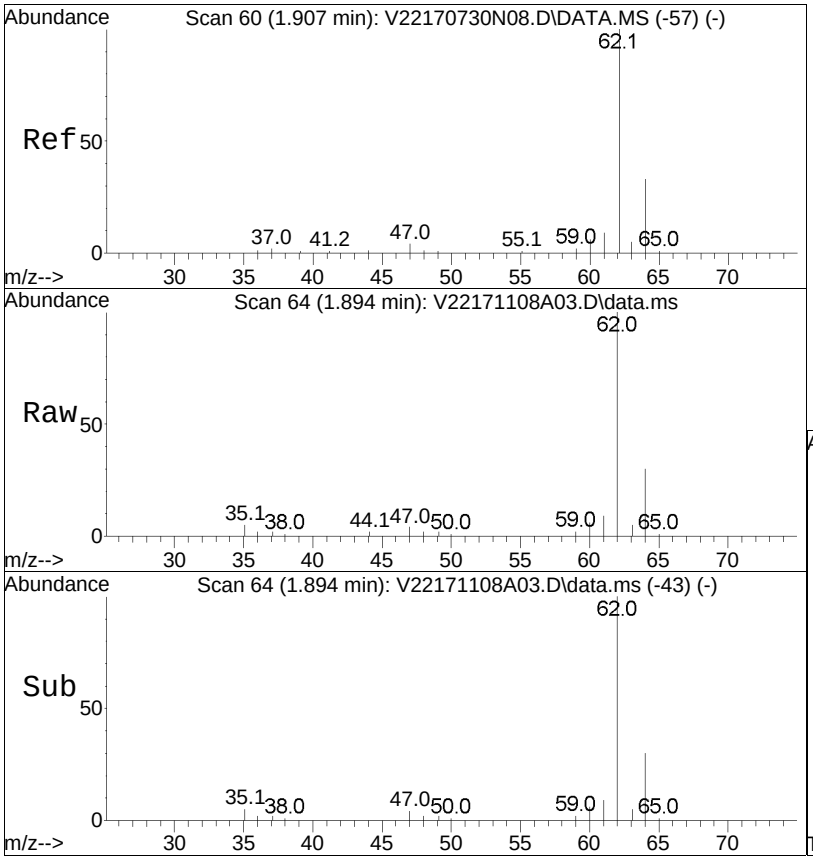


#3
Chloromethane
Concen: 8.38 ug/L
RT: 1.827 min Scan# 57
Delta R.T. 0.003 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 50 Resp: 52305

Ion	Ratio	Lower	Upper
50	100		
52	33.2	12.8	52.8

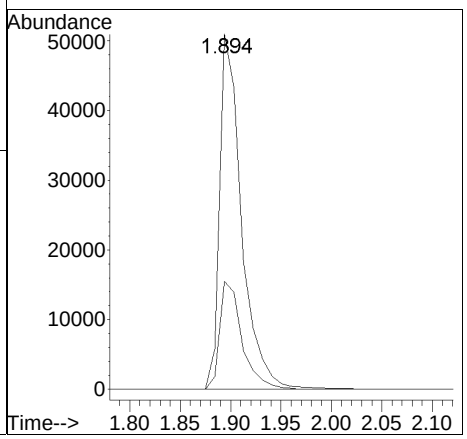


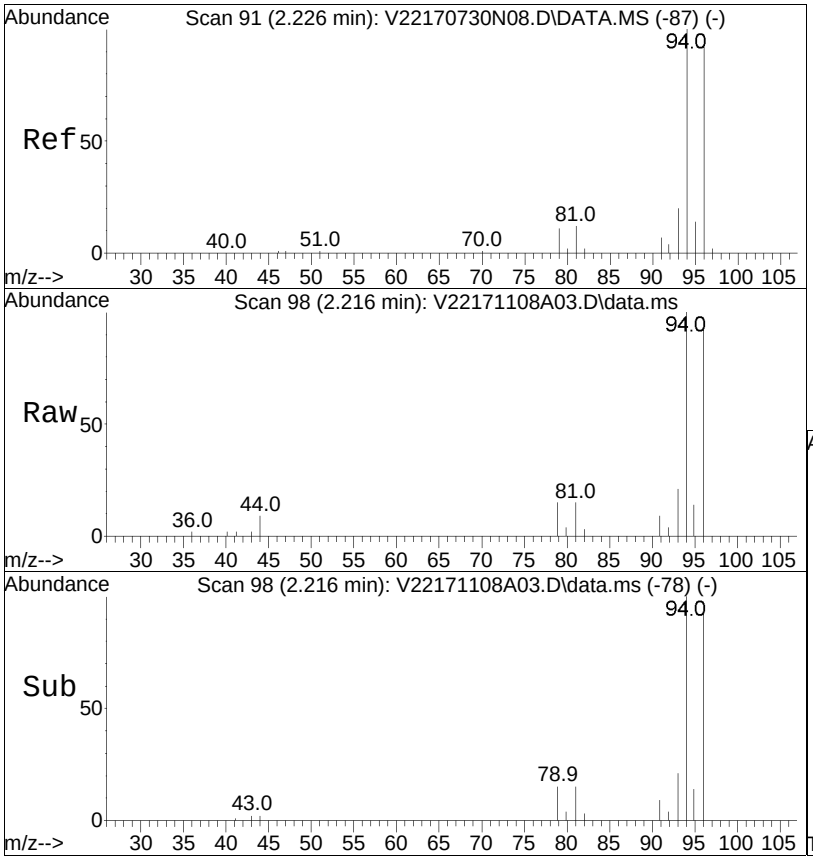


#4
Vinyl chloride
Concen: 9.88 ug/L
RT: 1.894 min Scan# 64
Delta R.T. -0.002 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 62 Resp: 77158

Ion	Ratio	Lower	Upper
62	100		
64	30.9	12.0	52.0

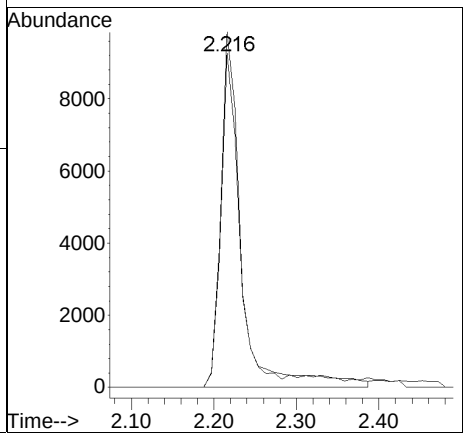


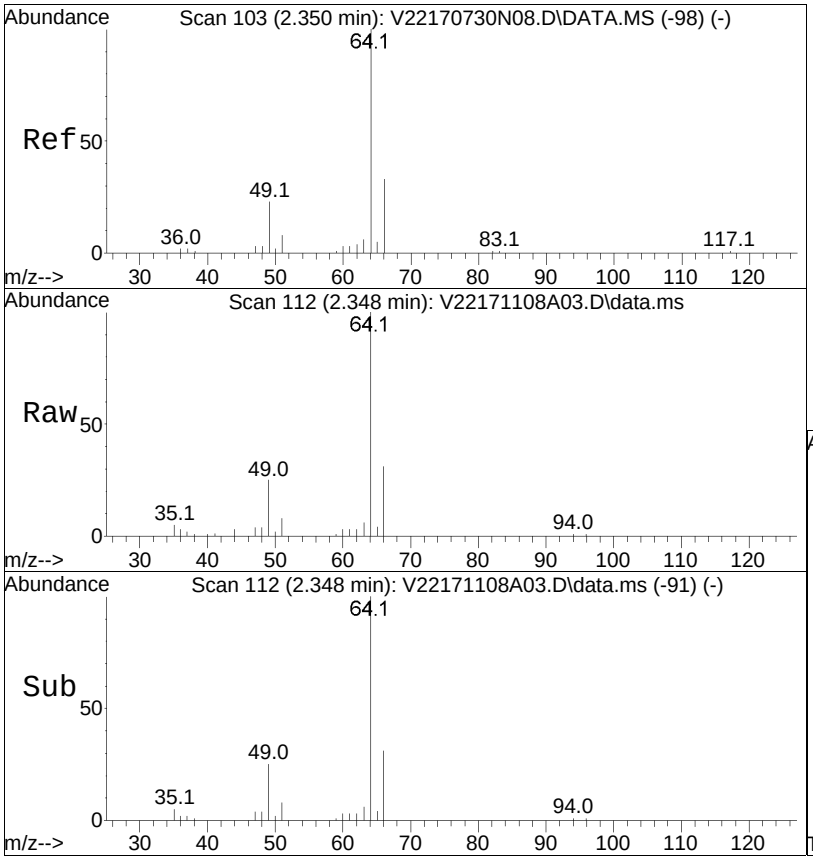


#5
Bromomethane
Concen: 3.38 ug/L
RT: 2.216 min Scan# 98
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 94 Resp: 17270

Ion	Ratio	Lower	Upper
94	100		
96	83.4	72.8	112.8

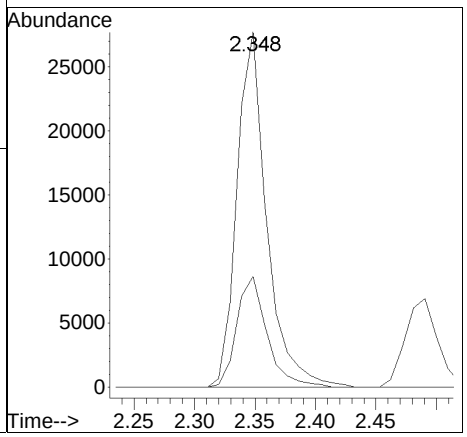


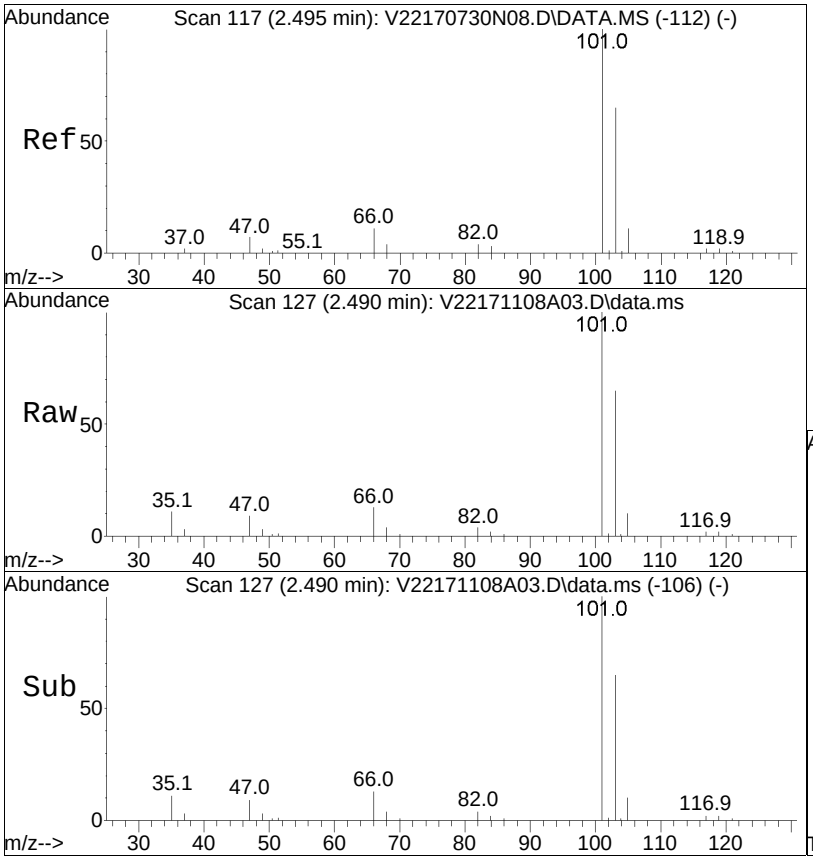


#6
Chloroethane
Concen: 10.13 ug/L
RT: 2.348 min Scan# 112
Delta R.T. -0.002 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 64 Resp: 47578

Ion	Ratio	Lower	Upper
64	100		
66	31.9	12.2	52.2

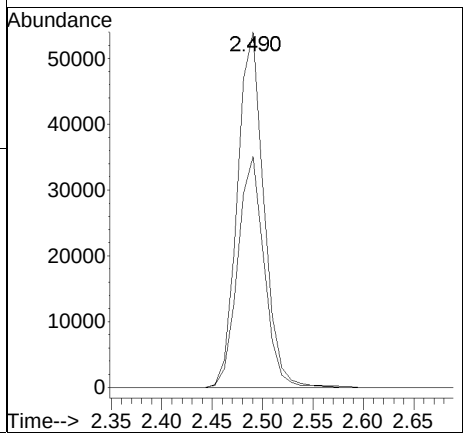


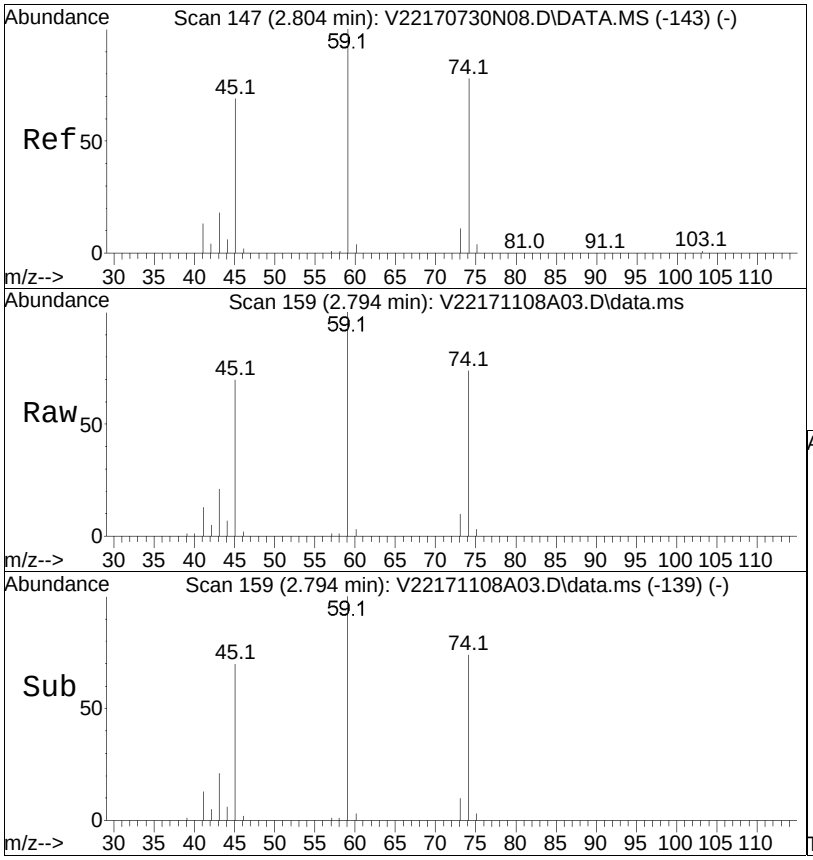


#7
Trichlorofluoromethane
Concen: 9.17 ug/L
RT: 2.490 min Scan# 127
Delta R.T. -0.005 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:101 Resp: 98664

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.6	77.4

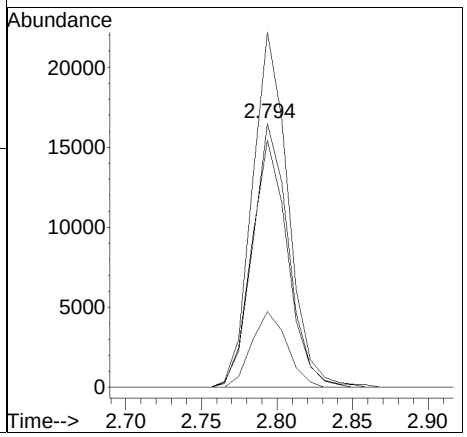


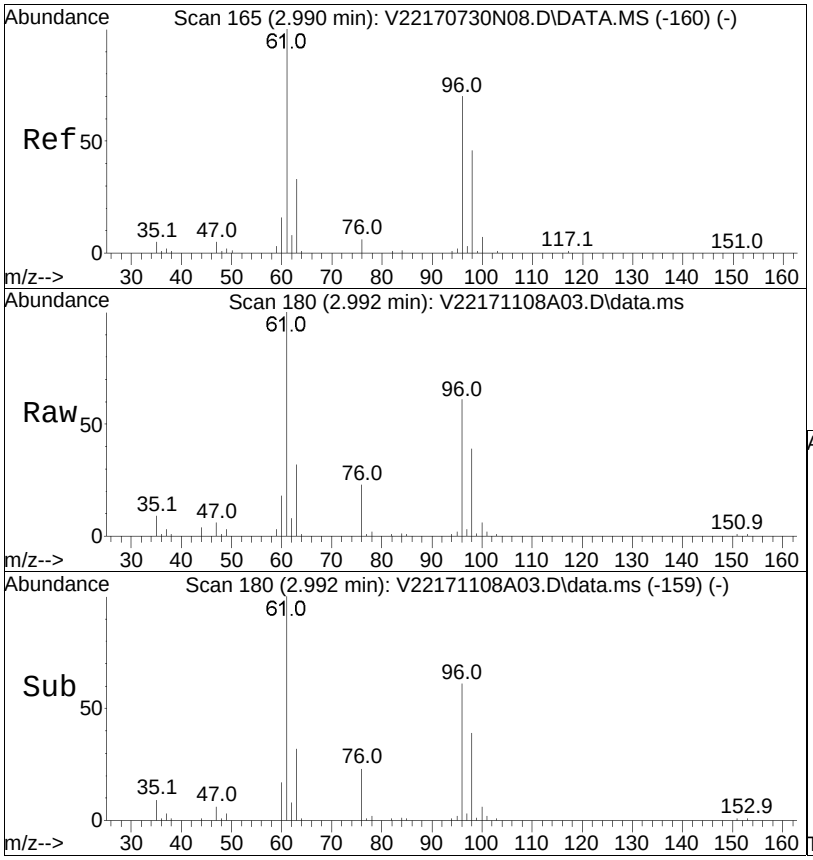


#8
Ethyl ether
Concen: 8.10 ug/L
RT: 2.794 min Scan# 159
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 74 Resp: 27059

Ion	Ratio	Lower	Upper
74	100		
59	135.7	2122.4	4408.0#
45	95.7	1435.1	2980.5#
43	28.5	407.9	847.3#

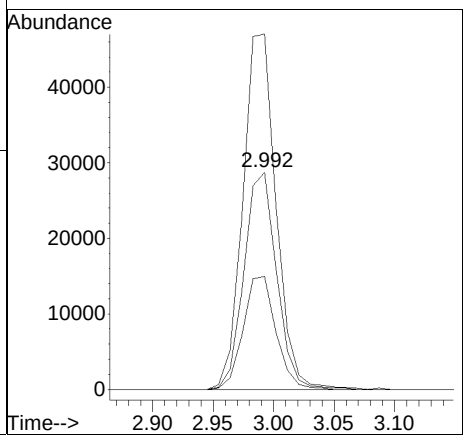


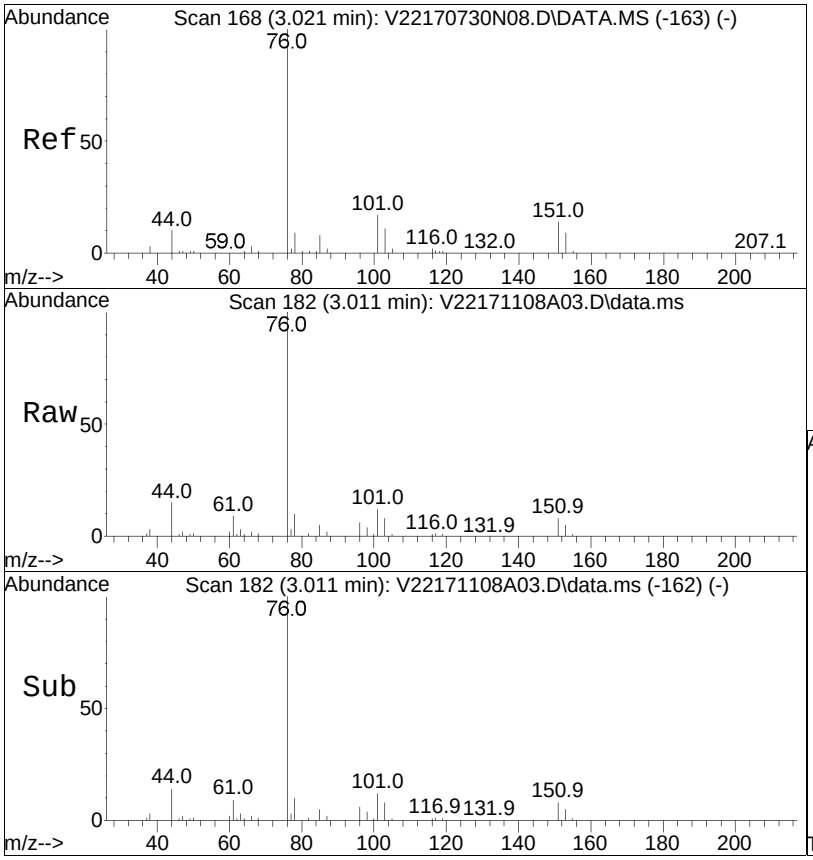


#10
1,1-Dichloroethene
Concen: 8.12 ug/L
RT: 2.992 min Scan# 180
Delta R.T. 0.002 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 96 Resp: 53943

Ion	Ratio	Lower	Upper
96	100		
61	166.4	117.0	175.4
63	52.2	37.8	56.6

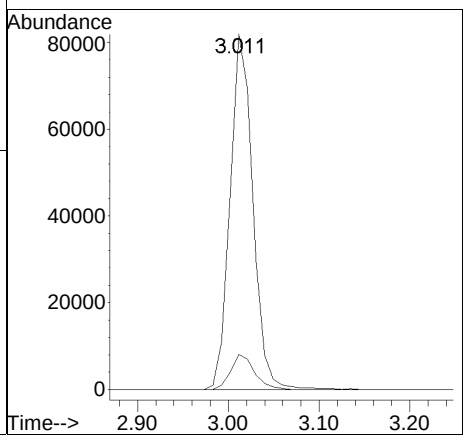


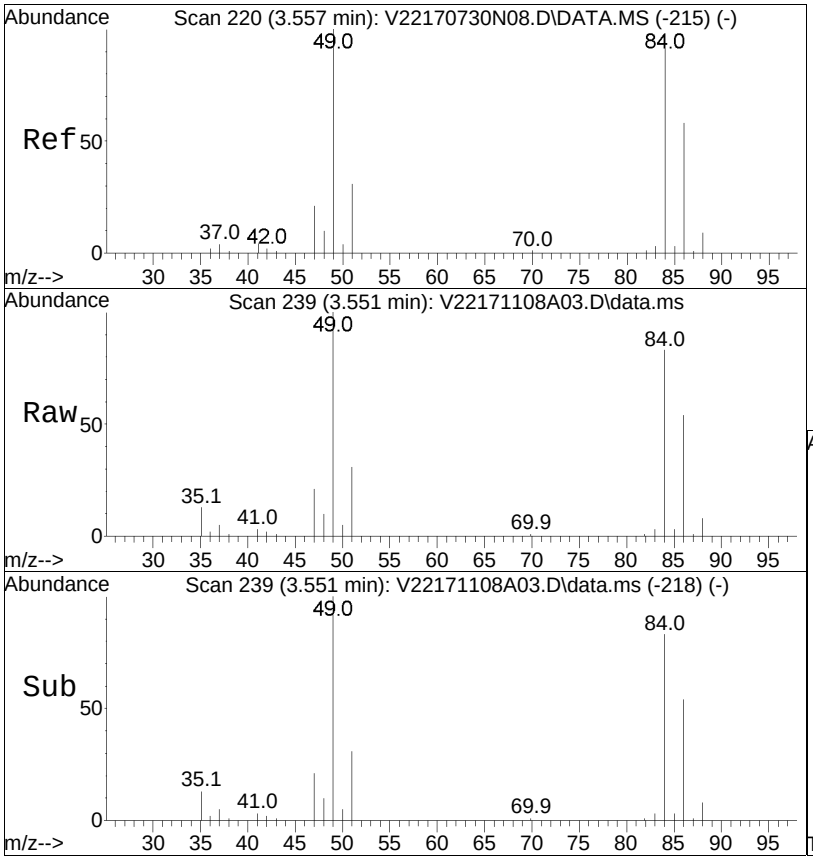


#11
Carbon disulfide
Concen: 8.38 ug/L
RT: 3.011 min Scan# 182
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 76 Resp: 143029

Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.4	13.4

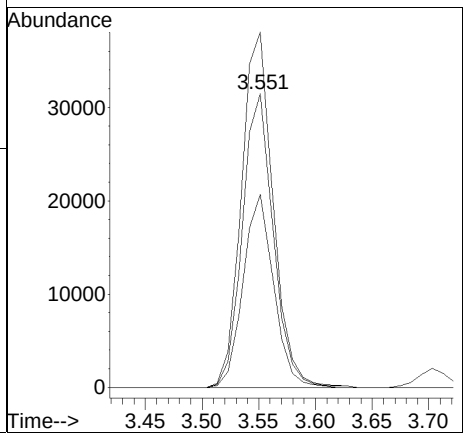


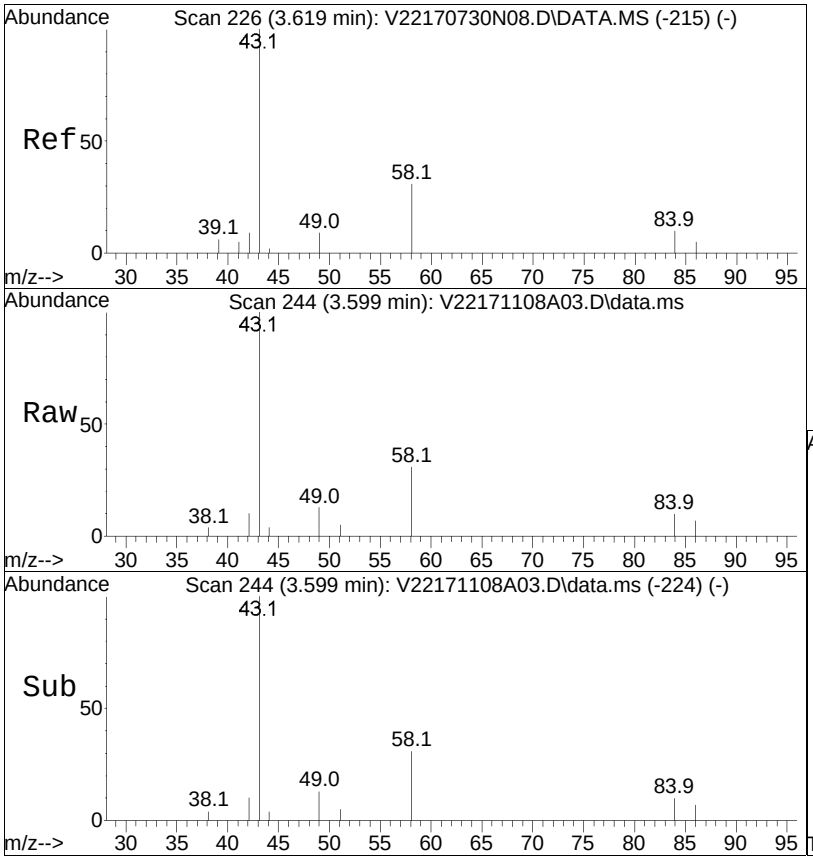


#15
Methylene chloride
Concen: 8.43 ug/L
RT: 3.551 min Scan# 239
Delta R.T. -0.006 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 84 Resp: 59663

Ion	Ratio	Lower	Upper
84	100		
86	64.8	41.5	86.3
49	123.9	68.8	143.0

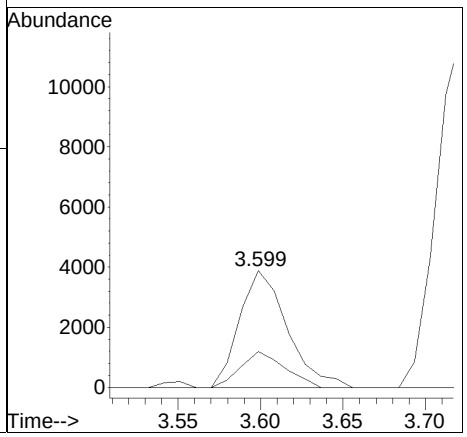


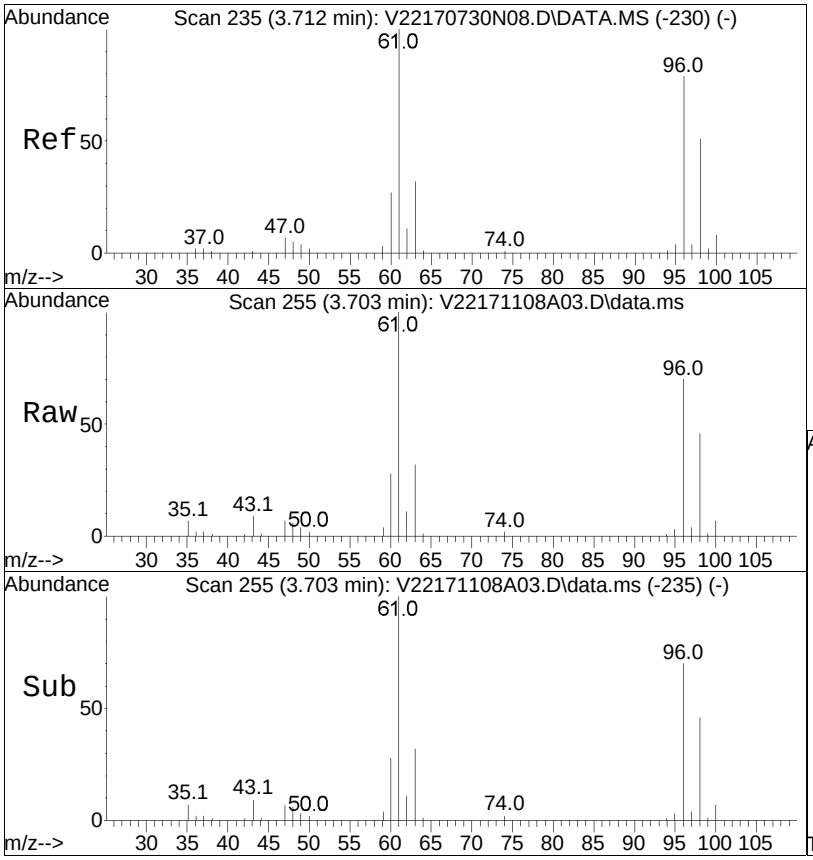


#17
Acetone
Concen: 9.15 ug/L
RT: 3.599 min Scan# 244
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 43 Resp: 7822

Ion	Ratio	Lower	Upper
43	100		
58	28.4	23.1	34.7

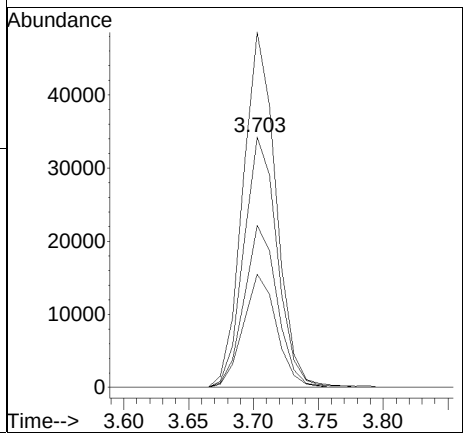


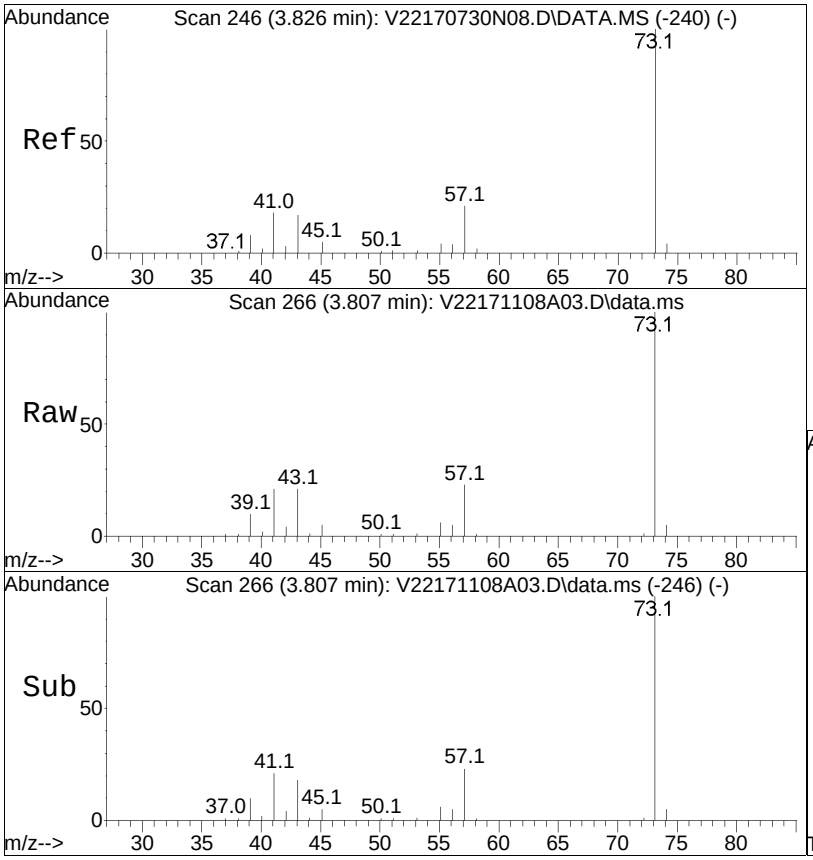


#18
trans-1,2-Dichloroethene
Concen: 8.07 ug/L
RT: 3.703 min Scan# 255
Delta R.T. -0.009 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 96 Resp: 61883

Ion	Ratio	Lower	Upper
96	100		
61	140.3	81.6	169.6
98	63.7	41.8	86.8
63	44.9	26.3	54.7

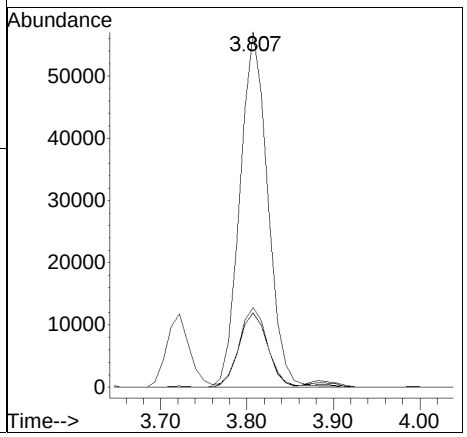


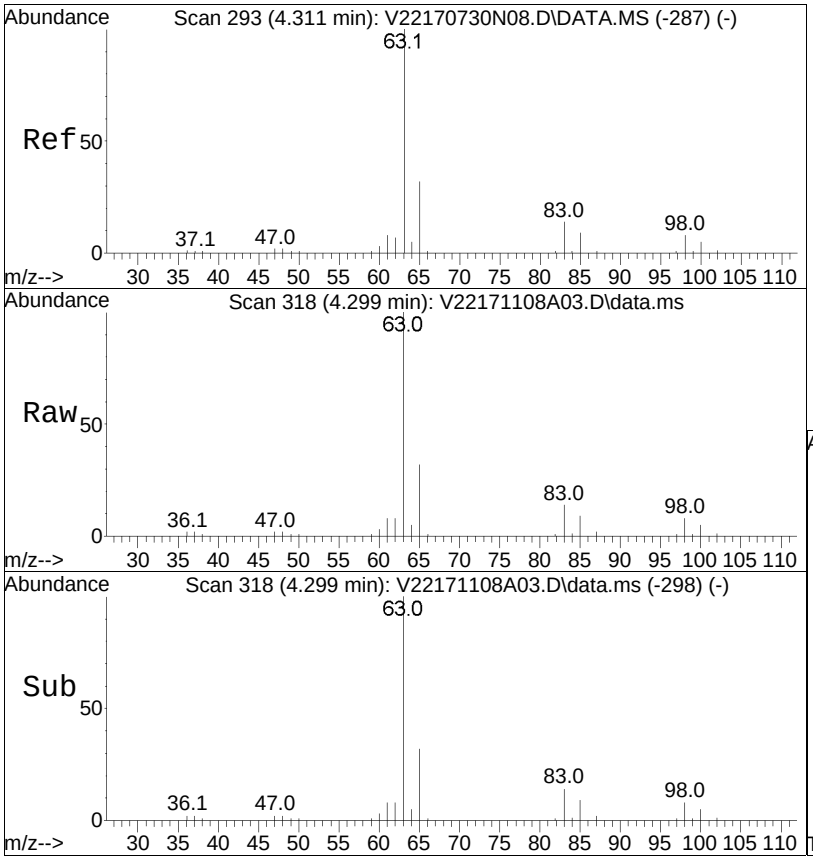


#21
Methyl tert-butyl ether
Concen: 7.80 ug/L
RT: 3.807 min Scan# 266
Delta R.T. -0.008 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 73 Resp: 127966

Ion	Ratio	Lower	Upper
73	100		
57	23.1	13.6	28.2
43	22.1	12.7	26.5
41	21.6	11.4	23.8

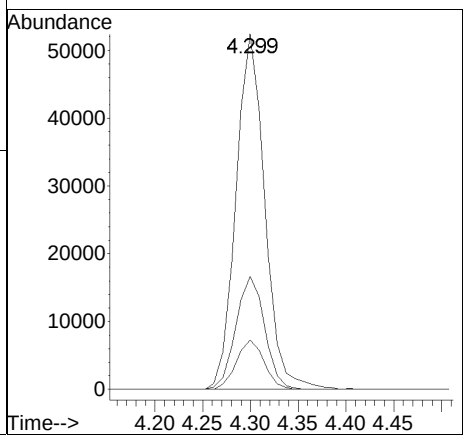


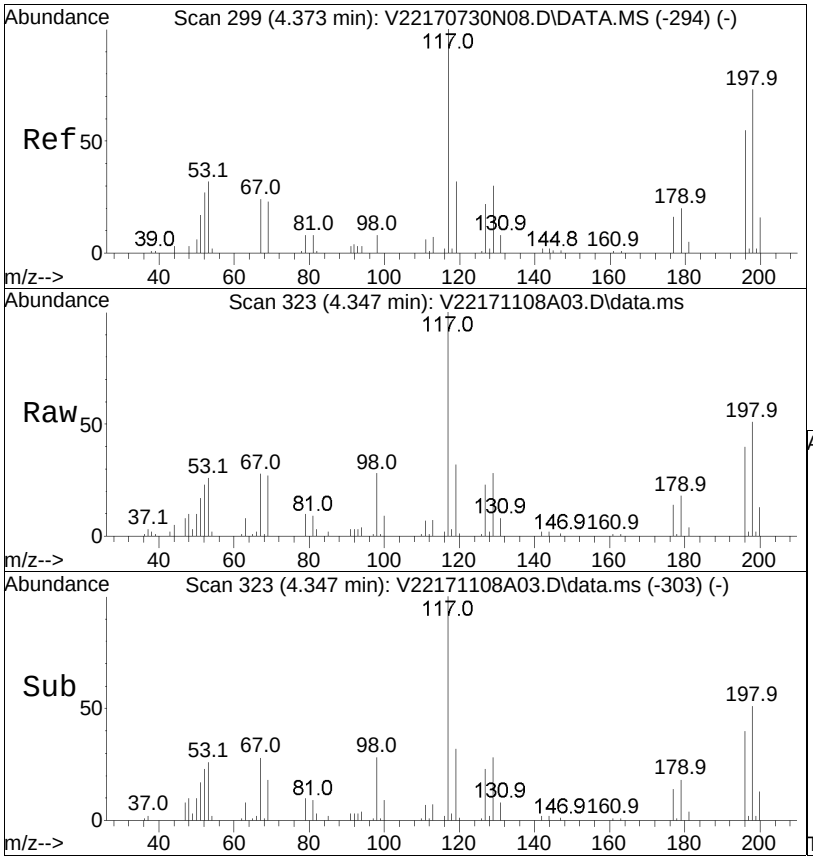


#25
1,1-Dichloroethane
Concen: 9.07 ug/L
RT: 4.299 min Scan# 318
Delta R.T. -0.012 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 63 Resp: 110097

Ion	Ratio	Lower	Upper
63	100		
65	31.7	11.9	51.9
83	13.4	0.0	34.2

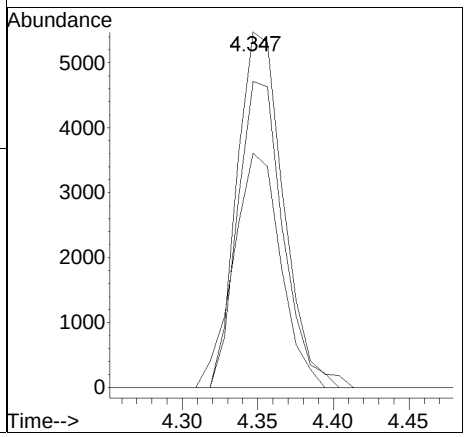


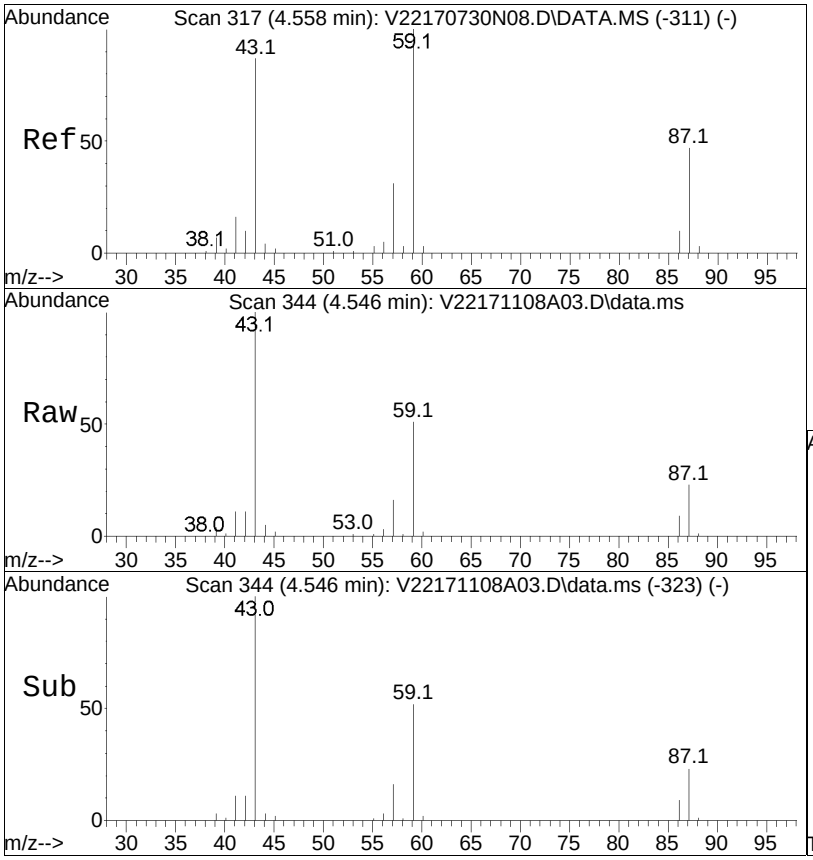


#27
Acrylonitrile
Concen: 9.62 ug/L
RT: 4.347 min Scan# 323
Delta R.T. -0.015 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 53 Resp: 11678

Ion	Ratio	Lower	Upper
53	100		
52	83.8	63.8	95.8
51	67.2	50.2	75.4

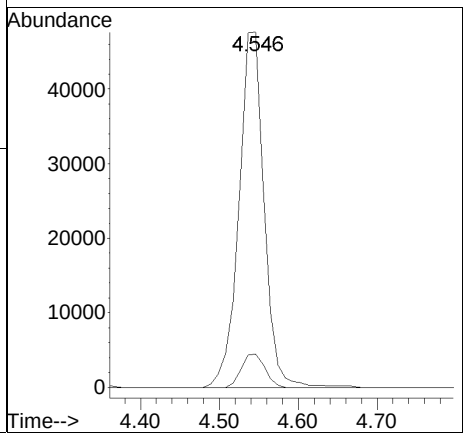


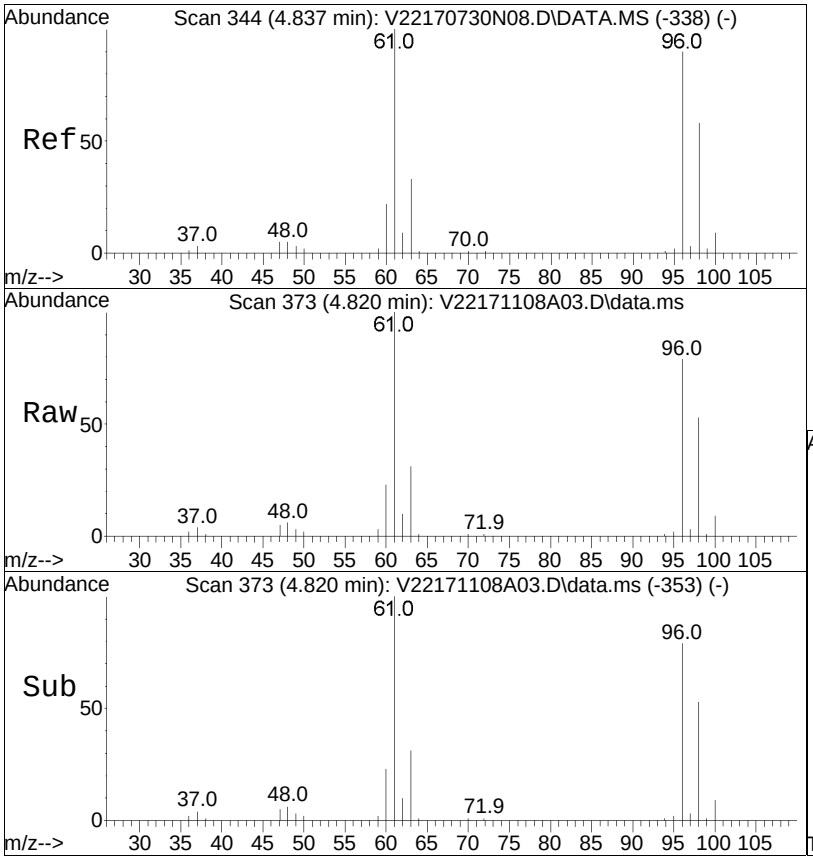


#29
Vinyl acetate
Concen: 9.49 ug/L
RT: 4.546 min Scan# 344
Delta R.T. -0.002 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 43 Resp: 106019

Ion	Ratio	Lower	Upper
43	100		
86	8.7	8.9	13.3#

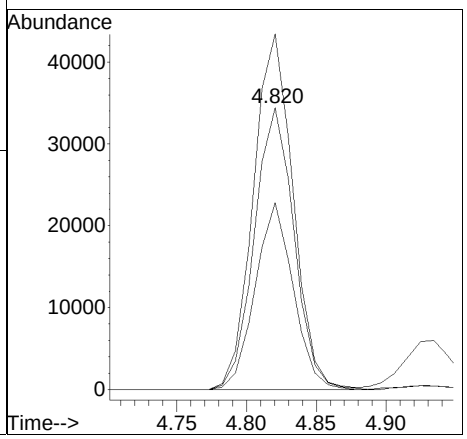


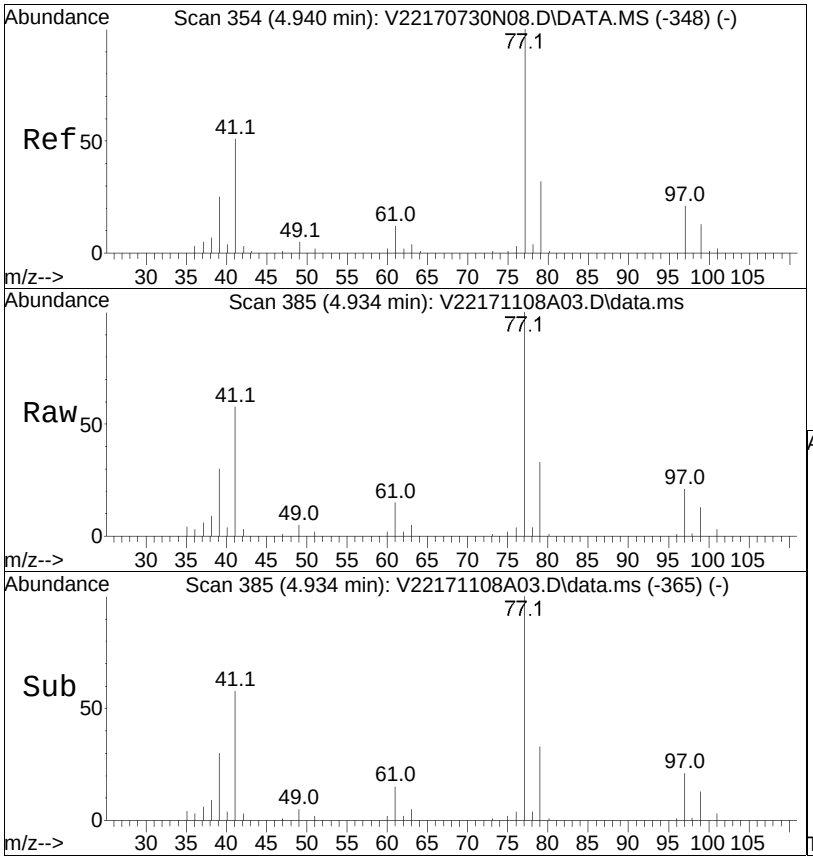


#30
cis-1,2-Dichloroethene
Concen: 8.25 ug/L
RT: 4.820 min Scan# 373
Delta R.T. -0.007 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 96 Resp: 67903

Ion	Ratio	Lower	Upper
96	100		
61	126.6	90.3	135.5
98	63.6	50.8	76.2

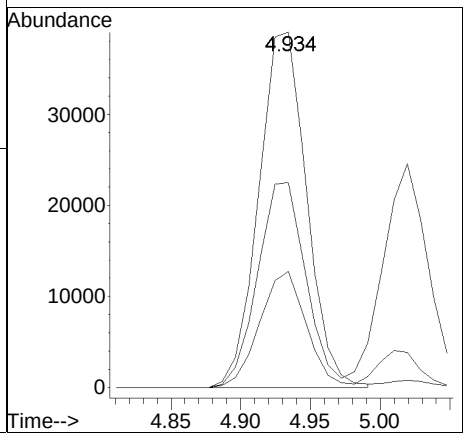


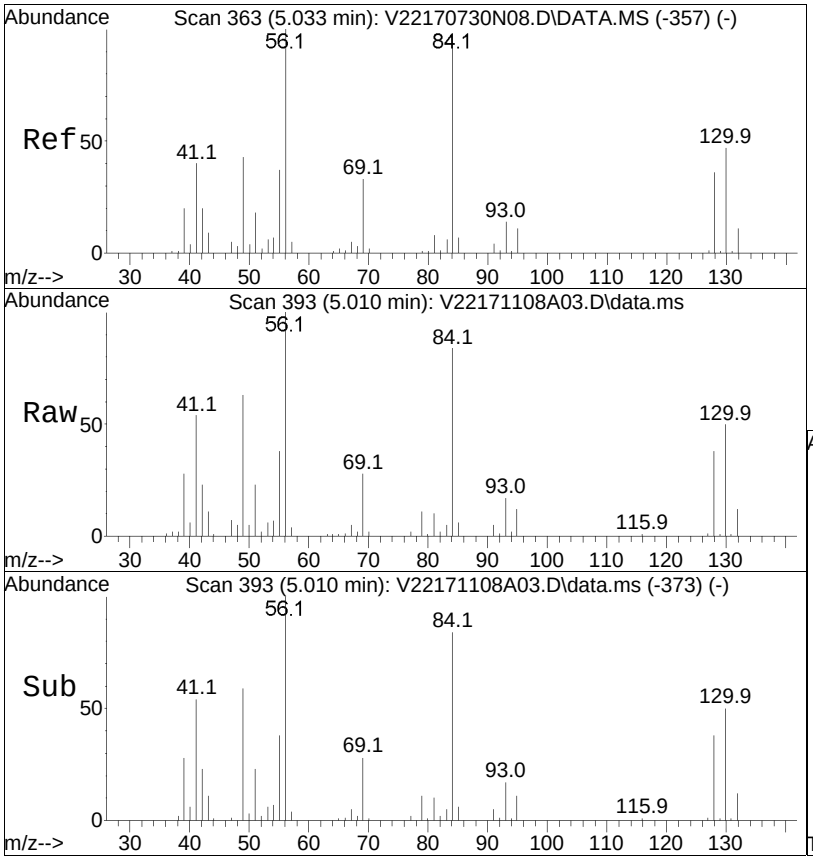


#31
2,2-Dichloropropane
Concen: 8.86 ug/L
RT: 4.934 min Scan# 385
Delta R.T. -0.006 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 77 Resp: 93021

Ion	Ratio	Lower	Upper
77	100		
41	58.1	32.3	67.1
79	31.9	21.1	43.7

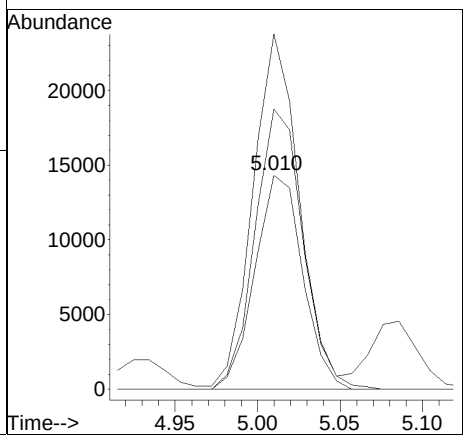


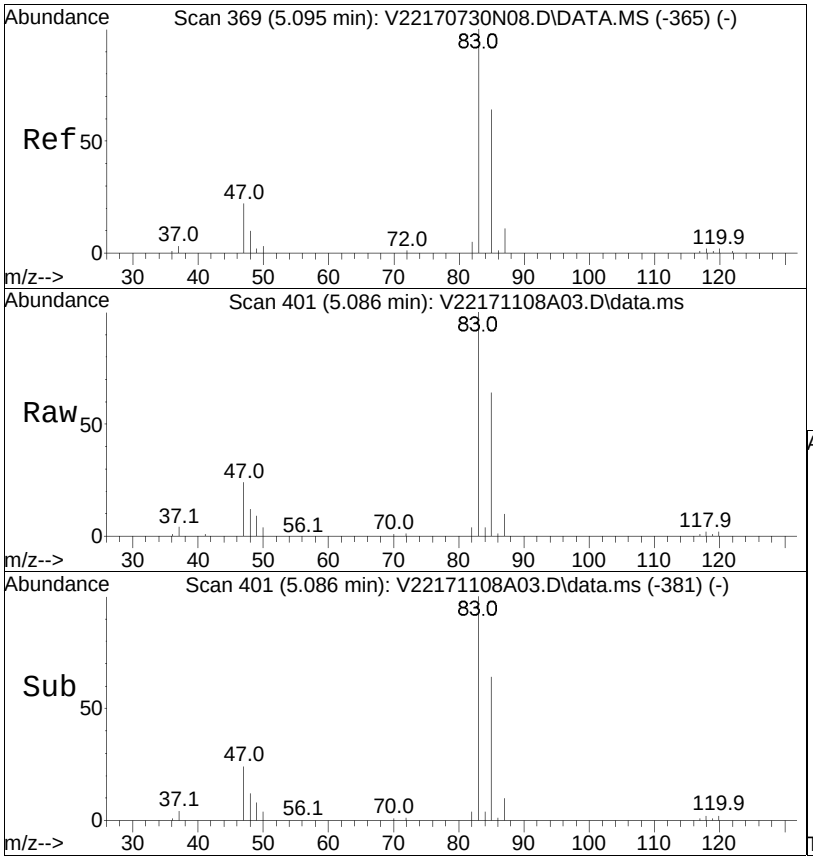


#32
Bromochloromethane
Concen: 8.36 ug/L
RT: 5.010 min Scan# 393
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:128 Resp: 28968

Ion	Ratio	Lower	Upper
128	100		
49	159.6	104.4	156.6#
130	131.3	103.9	155.9

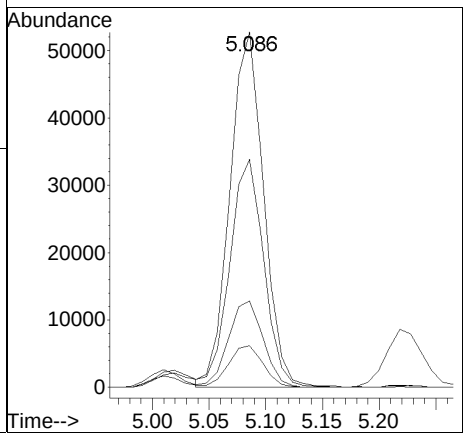


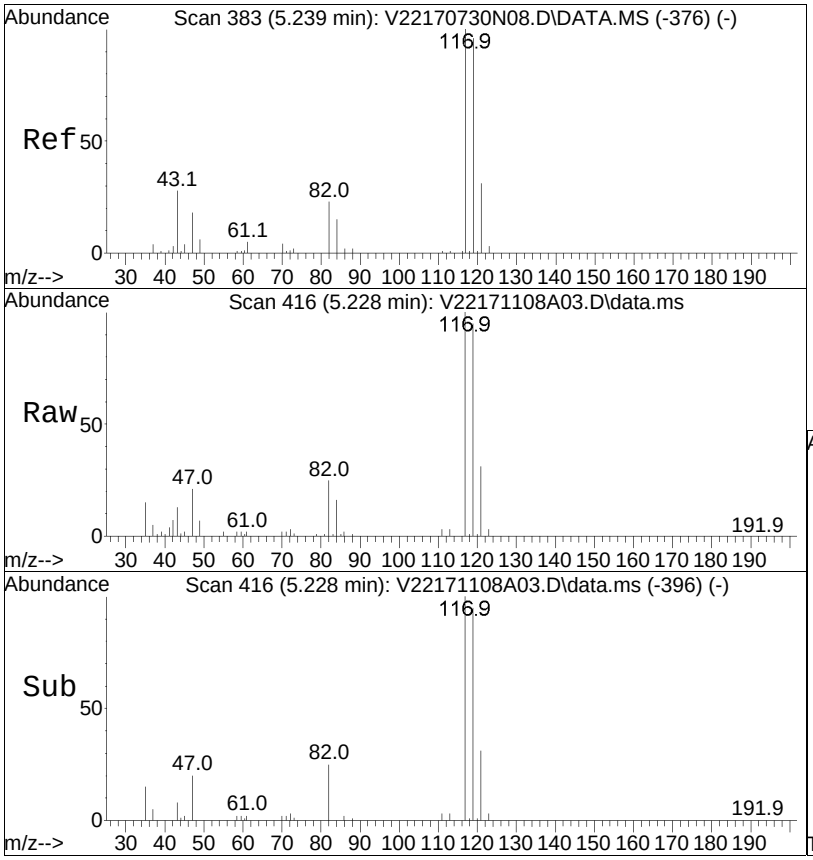


#34
Chloroform
Concen: 8.69 ug/L
RT: 5.086 min Scan# 401
Delta R.T. -0.009 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 83 Resp: 109527

Ion	Ratio	Lower	Upper
83	100		
85	64.8	42.4	88.2
47	25.1	14.0	29.0
48	12.1	6.9	14.3

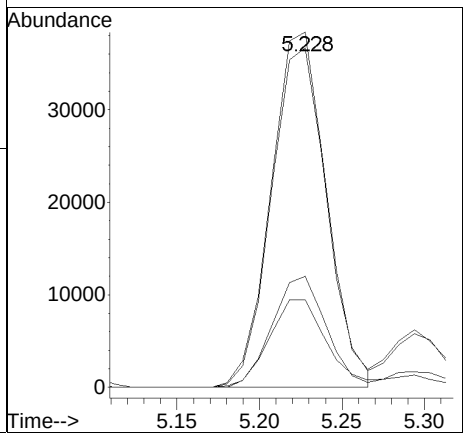


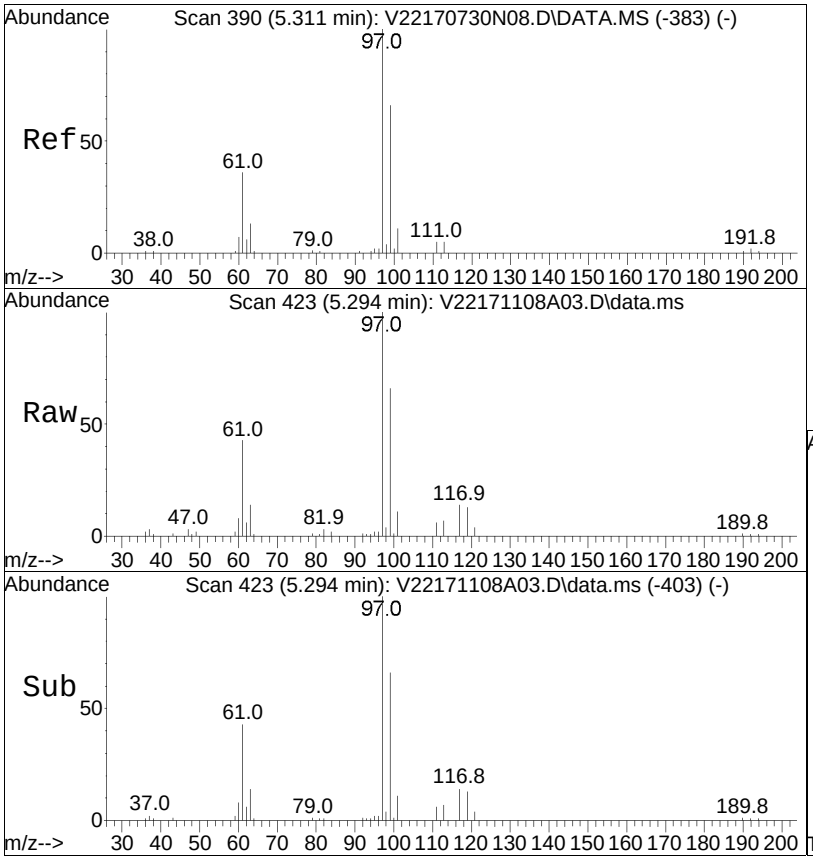


#36
Carbon tetrachloride
Concen: 9.03 ug/L
RT: 5.228 min Scan# 416
Delta R.T. -0.011 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:117 Resp: 89862

Ion	Ratio	Lower	Upper
117	100		
119	95.5	62.1	129.1
121	30.6	20.3	42.3
82	25.5	15.4	32.0

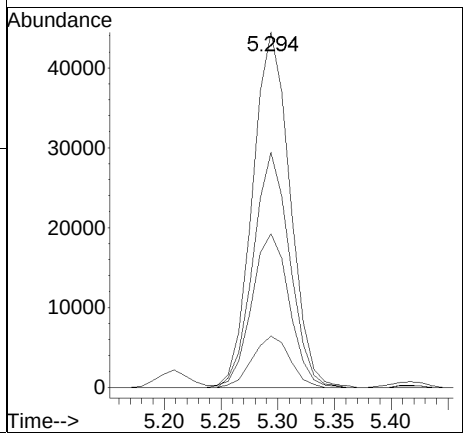


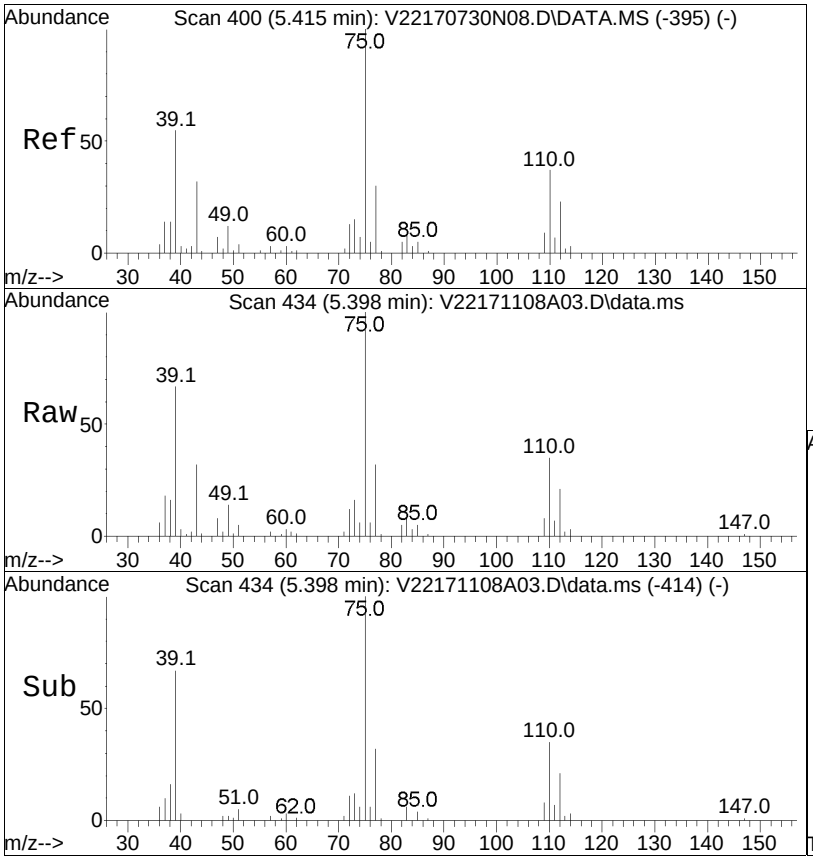


#39
1,1,1-Trichloroethane
Concen: 8.52 ug/L
RT: 5.294 min Scan# 423
Delta R.T. -0.007 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 97 Resp: 102120

Ion	Ratio	Lower	Upper
97	100		
99	64.8	42.4	88.0
61	43.8	26.0	54.0
63	14.5	8.3	17.3

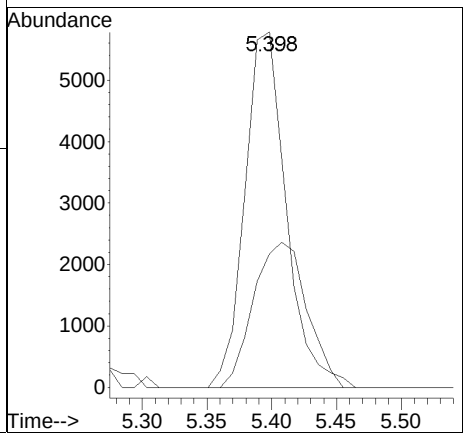


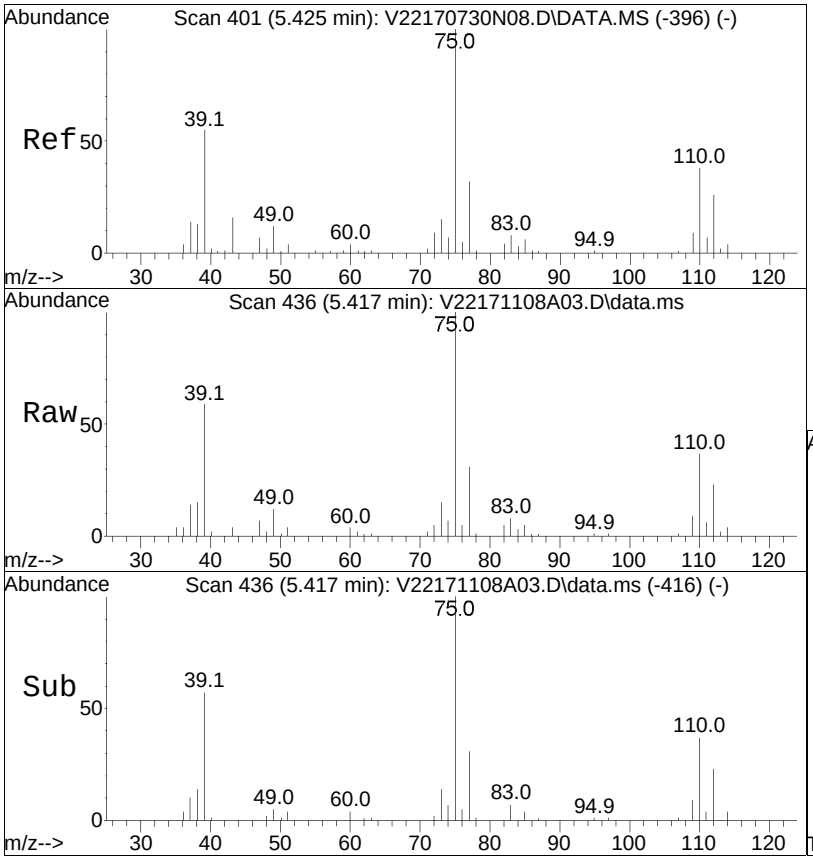


#41
2-Butanone
Concen: 10.29 ug/L
RT: 5.398 min Scan# 434
Delta R.T. -0.006 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 43 Resp: 12859

Ion	Ratio	Lower	Upper
43	100		
72	52.3	45.8	68.8

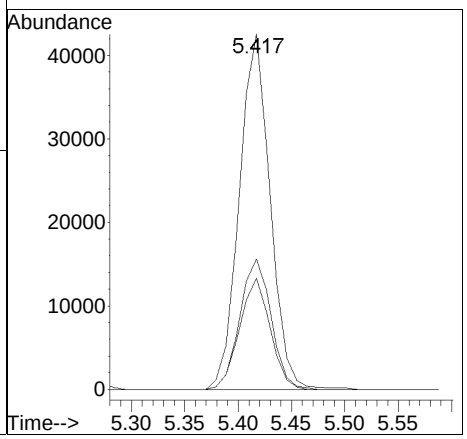


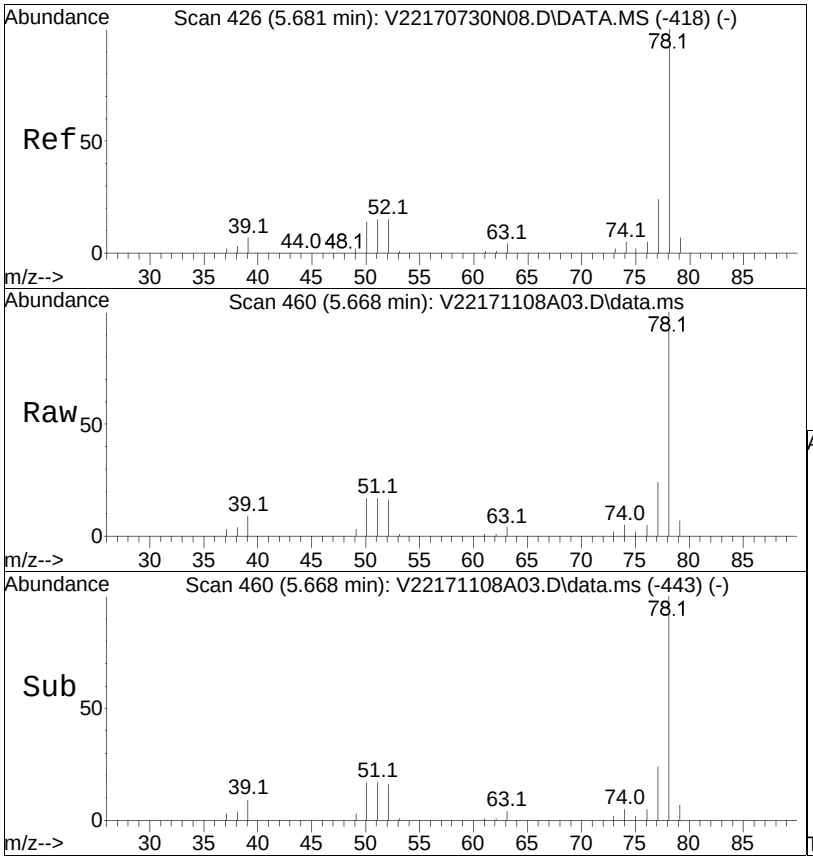


#42
1,1-Dichloropropene
Concen: 8.63 ug/L
RT: 5.417 min Scan# 436
Delta R.T. -0.008 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 75 Resp: 85366

Ion	Ratio	Lower	Upper
75	100		
110	37.2	25.4	52.8
77	31.0	20.3	42.1

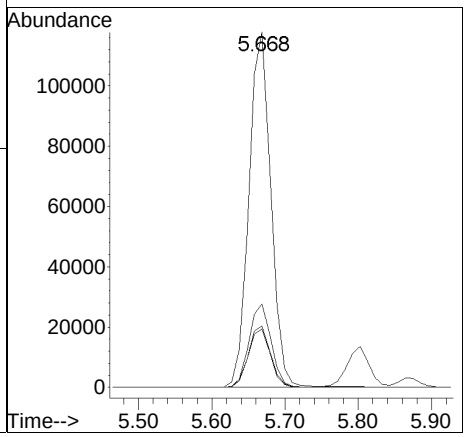


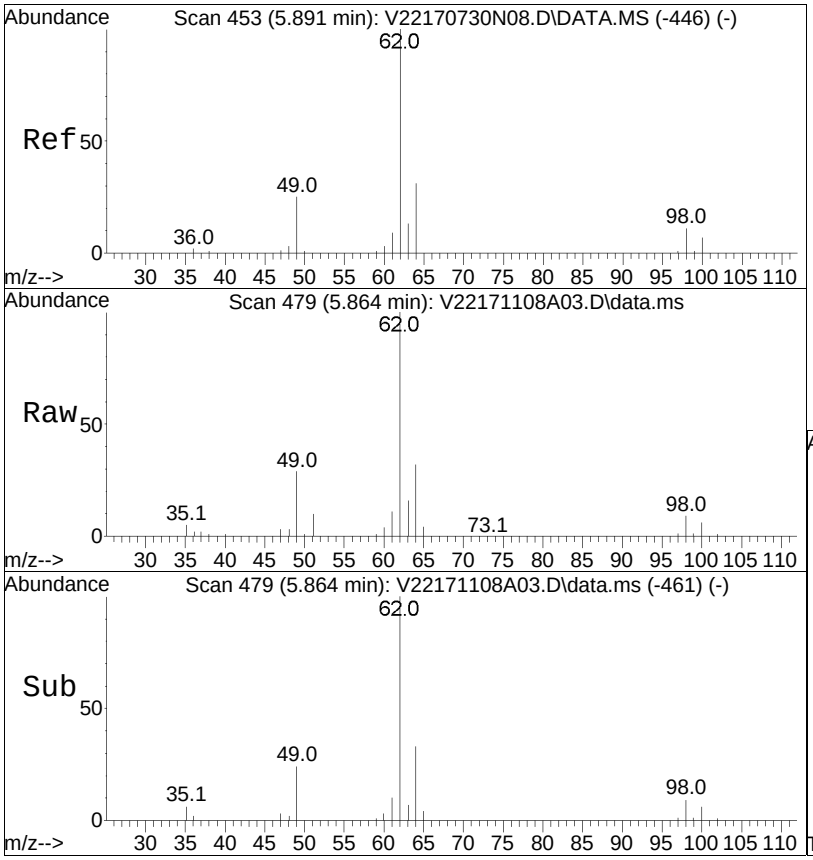


#44
Benzene
Concen: 9.01 ug/L
RT: 5.668 min Scan# 460
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 78 Resp: 266525

Ion	Ratio	Lower	Upper
78	100		
77	24.8	15.4	32.0
51	18.6	9.8	20.4
52	17.5	9.2	19.2

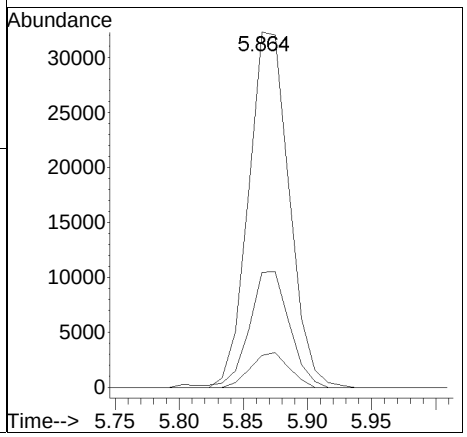


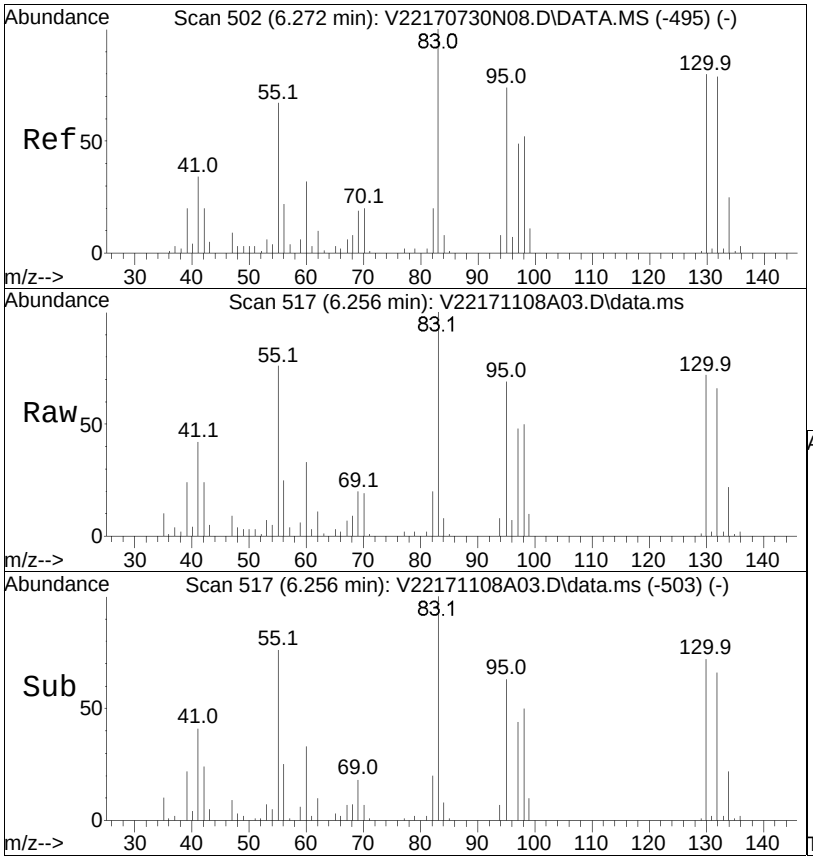


#47
1,2-Dichloroethane
Concen: 9.28 ug/L
RT: 5.864 min Scan# 479
Delta R.T. -0.019 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 62 Resp: 71240

Ion	Ratio	Lower	Upper
62	100		
64	32.5	12.3	52.3
98	9.3	0.0	30.3

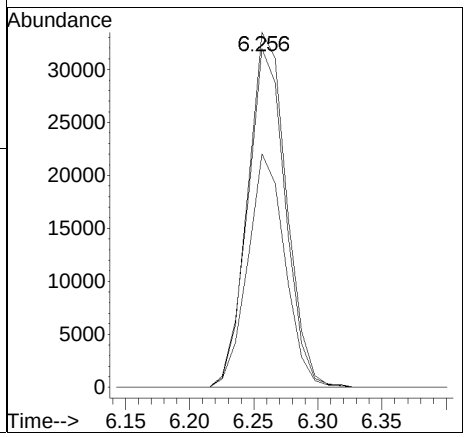


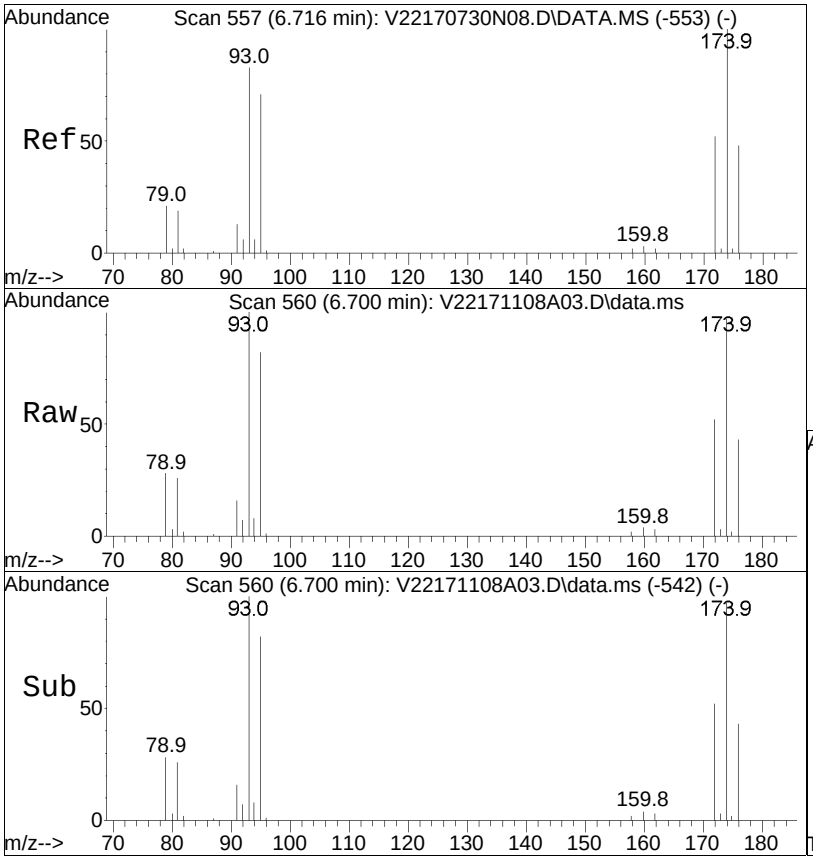


#51
Trichloroethene
Concen: 8.58 ug/L
RT: 6.256 min Scan# 517
Delta R.T. -0.016 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 95 Resp: 65582

Ion	Ratio	Lower	Upper
95	100		
97	68.3	55.0	82.4
130	107.2	89.2	133.8

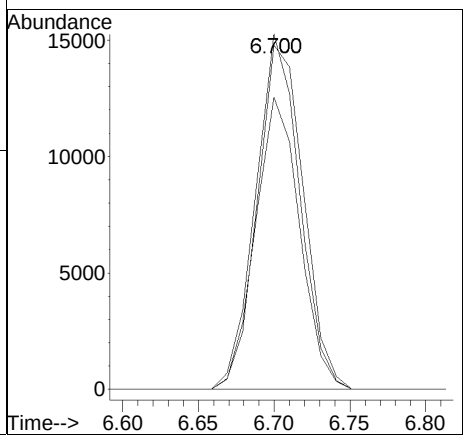


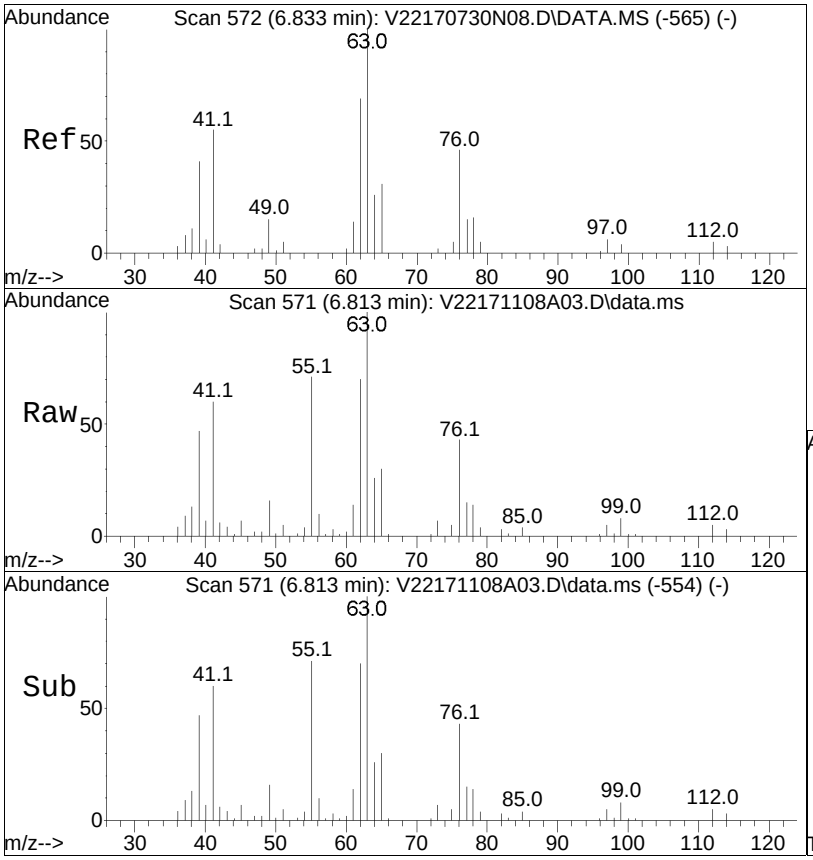


#53
Dibromomethane
Concen: 10.83 ug/L
RT: 6.700 min Scan# 560
Delta R.T. -0.016 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 93 Resp: 30836

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.0	102.0
174	101.8	106.1	159.1#

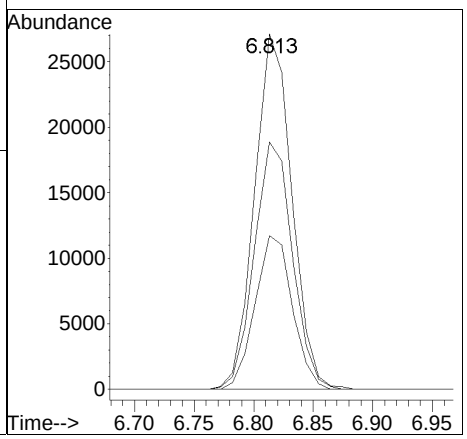


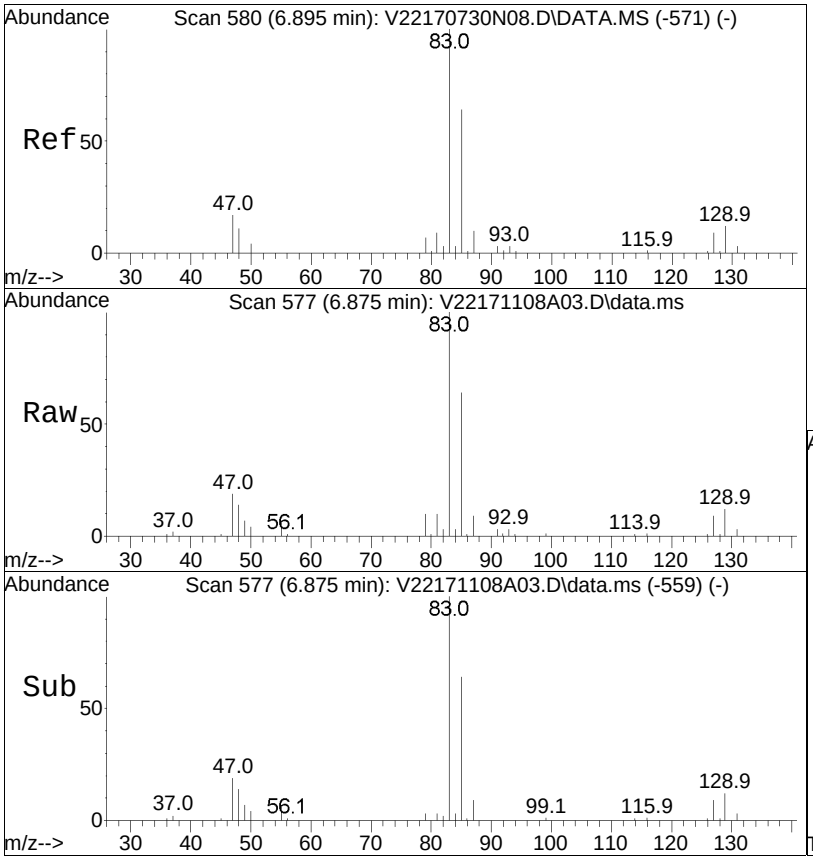


#54
1,2-Dichloropropane
Concen: 9.21 ug/L
RT: 6.813 min Scan# 571
Delta R.T. -0.020 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 63 Resp: 59127

Ion	Ratio	Lower	Upper
63	100		
62	71.3	56.9	85.3
76	43.3	35.8	53.8

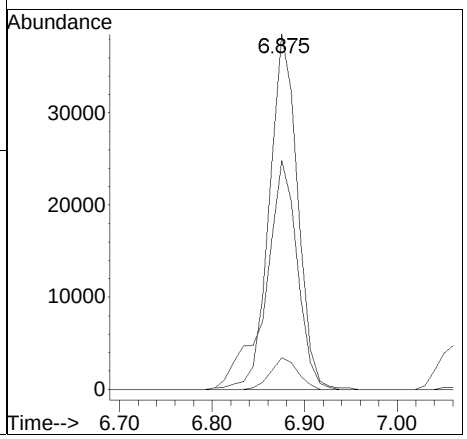


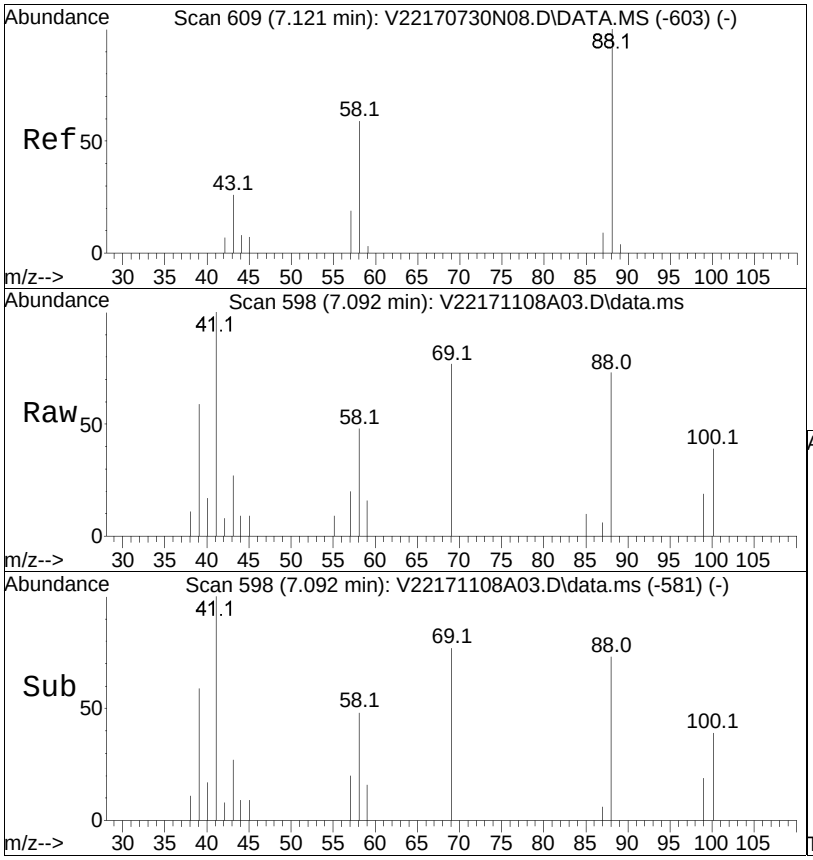


#57
Bromodichloromethane
Concen: 8.53 ug/L
RT: 6.875 min Scan# 577
Delta R.T. -0.012 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 83 Resp: 81789

Ion	Ratio	Lower	Upper
83	100		
85	73.1	51.6	77.4
127	8.6	7.4	11.0

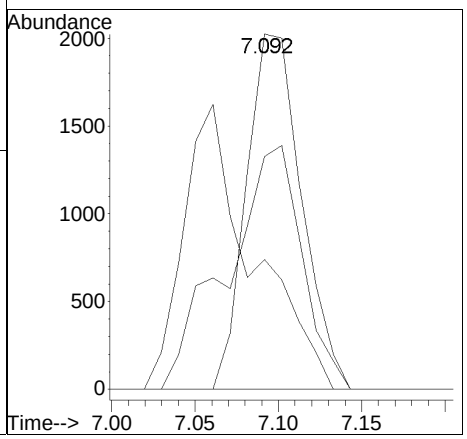


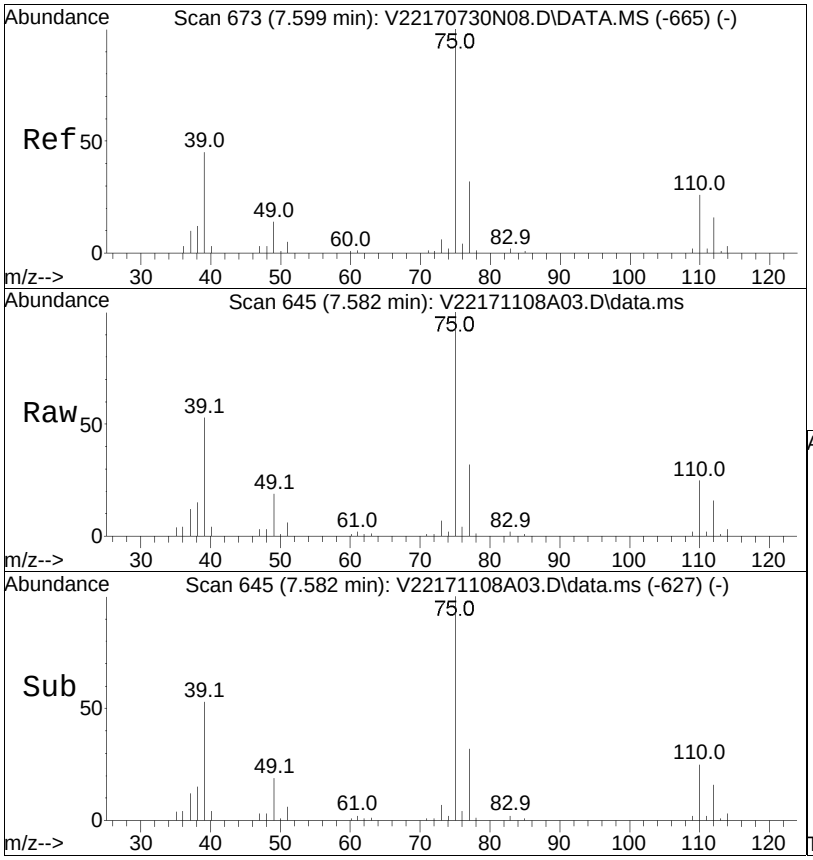


#60
1,4-Dioxane
Concen: 404.89 ug/L
RT: 7.092 min Scan# 598
Delta R.T. -0.021 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 88 Resp: 4671

Ion	Ratio	Lower	Upper
88	100		
58	92.9	43.3	64.9#
43	100.0	15.1	22.7#

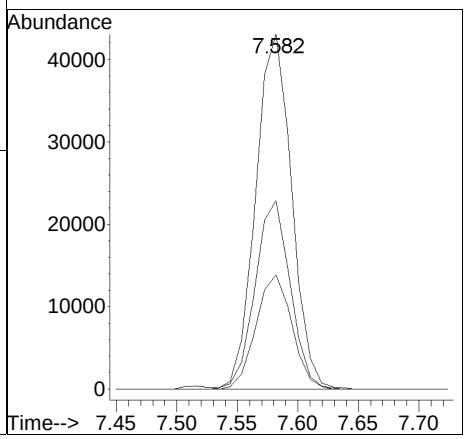


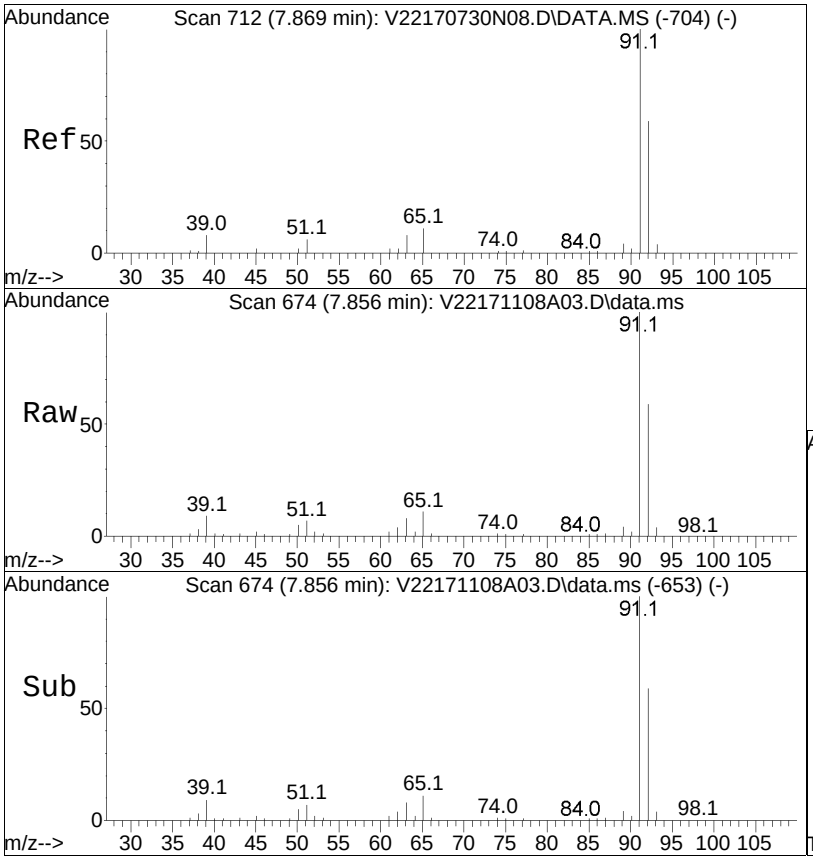


#61
cis-1,3-Dichloropropene
Concen: 8.08 ug/L
RT: 7.582 min Scan# 645
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 75 Resp: 89126

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.6	38.4
39	51.9	35.4	53.0

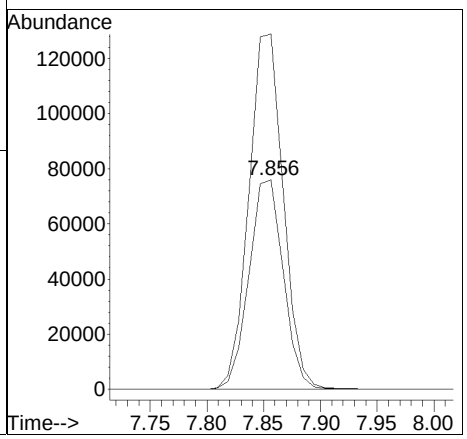


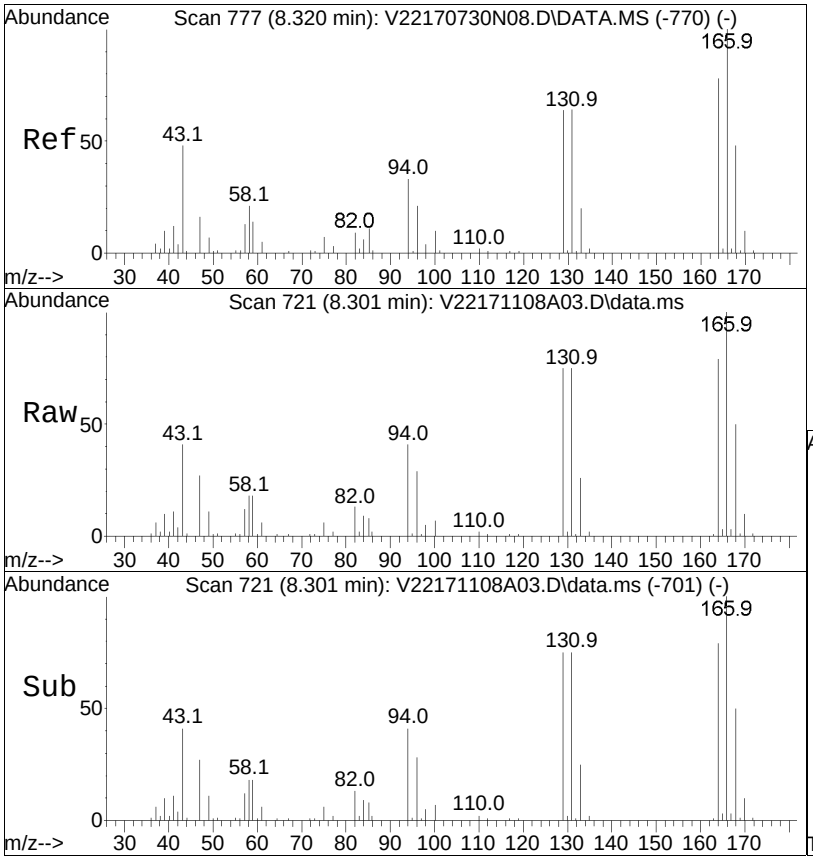


#64
Toluene
Concen: 9.43 ug/L
RT: 7.856 min Scan# 674
Delta R.T. -0.006 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 92 Resp: 160271

Ion	Ratio	Lower	Upper
92	100		
91	169.9	137.0	205.6

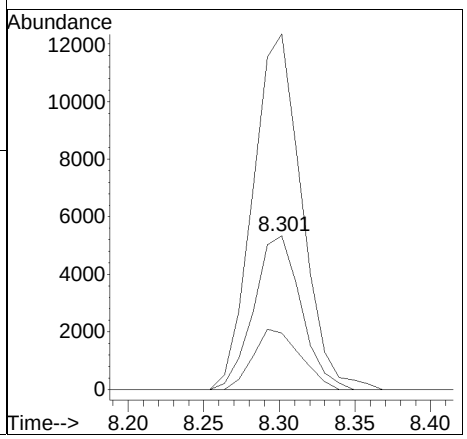


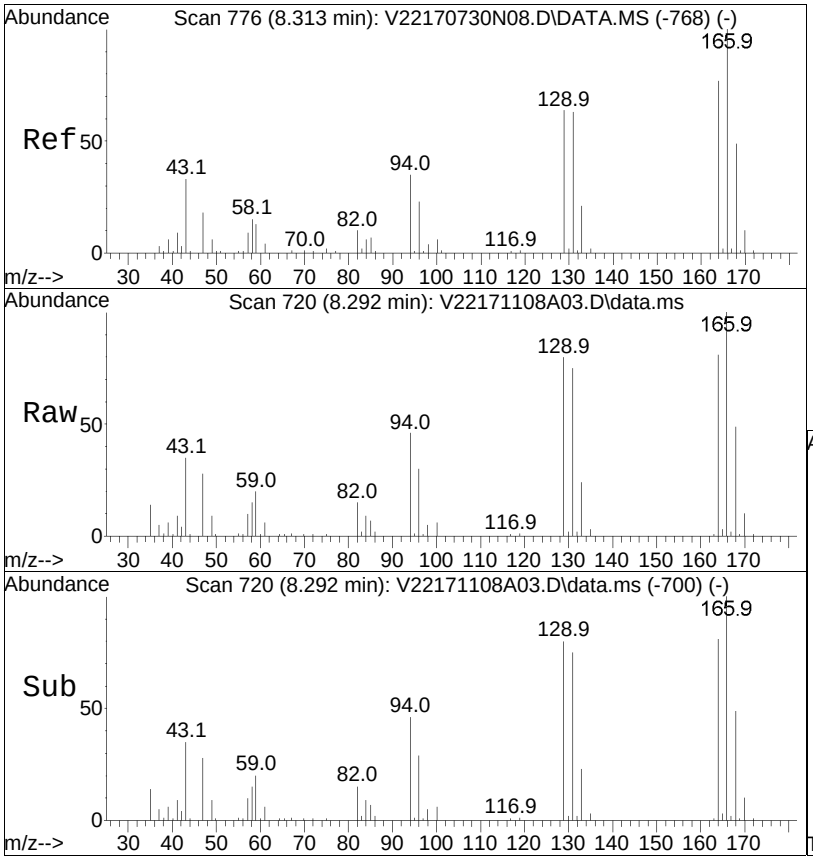


#65
4-Methyl-2-pentanone
Concen: 9.31 ug/L
RT: 8.301 min Scan# 721
Delta R.T. -0.012 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 58 Resp: 11569

Ion	Ratio	Lower	Upper
58	100		
100	39.1	36.2	54.4
43	239.2	181.8	272.8

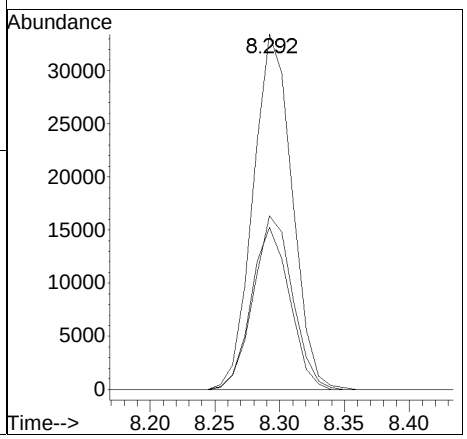


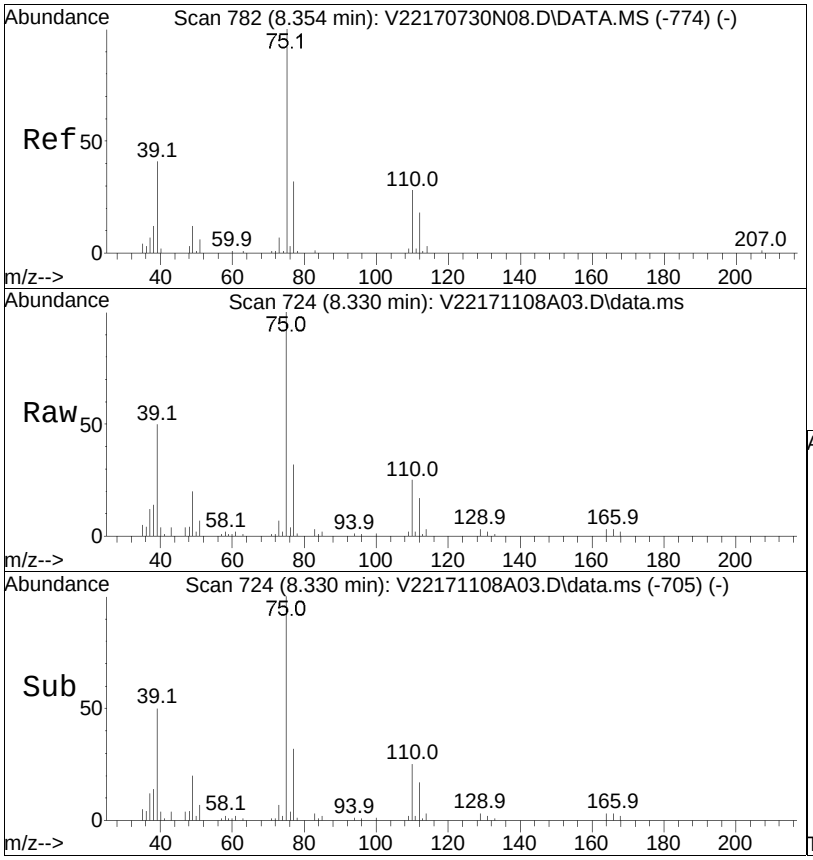


#66
Tetrachloroethene
Concen: 7.96 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:166 Resp: 70003

Ion	Ratio	Lower	Upper
166	100		
168	48.9	27.8	67.8
94	45.0	16.7	56.7

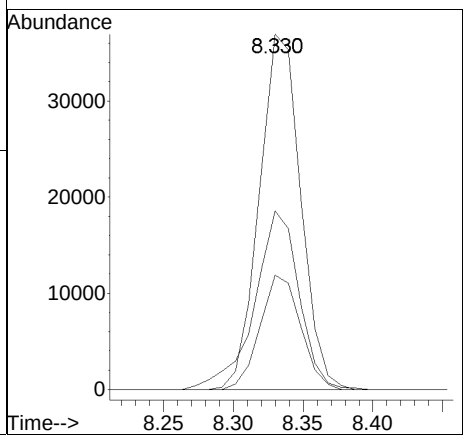


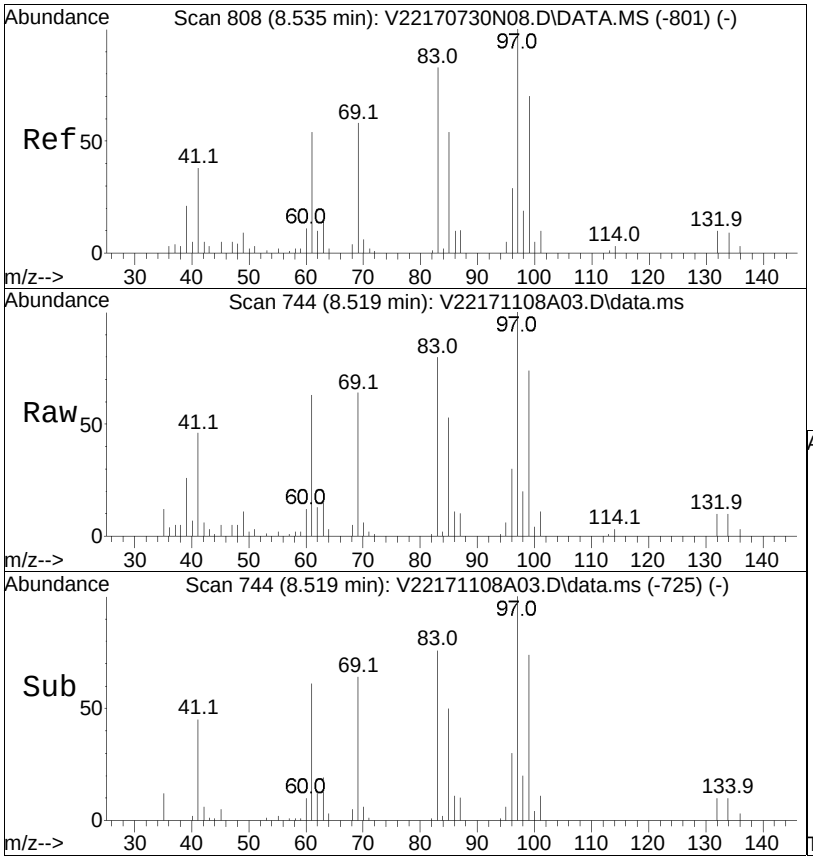


#68
trans-1,3-Dichloropropene
Concen: 9.05 ug/L
RT: 8.330 min Scan# 724
Delta R.T. -0.018 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 75 Resp: 76106

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.9	51.9
39	54.0	27.4	67.4

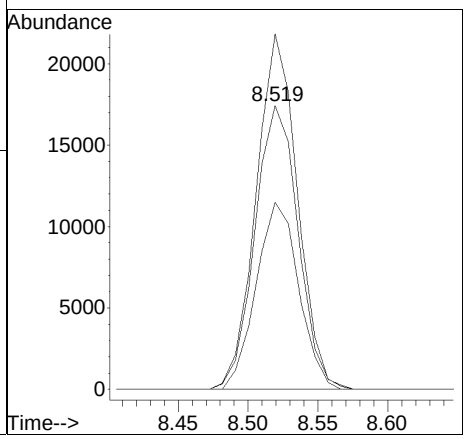


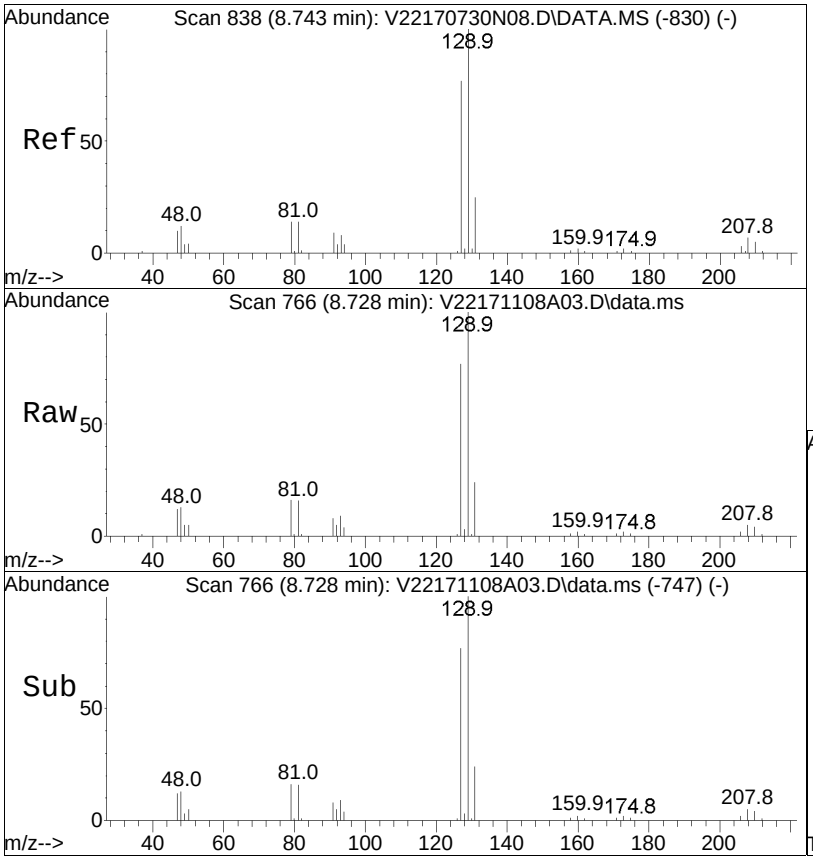


#71
1,1,2-Trichloroethane
Concen: 9.32 ug/L
RT: 8.519 min Scan# 744
Delta R.T. -0.016 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 83 Resp: 37469

Ion	Ratio	Lower	Upper
83	100		
97	119.8	103.4	143.4
85	65.0	47.9	87.9

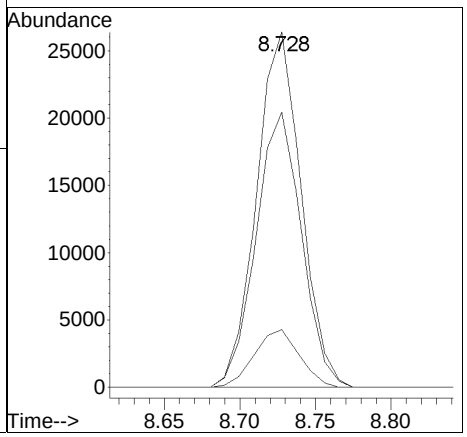


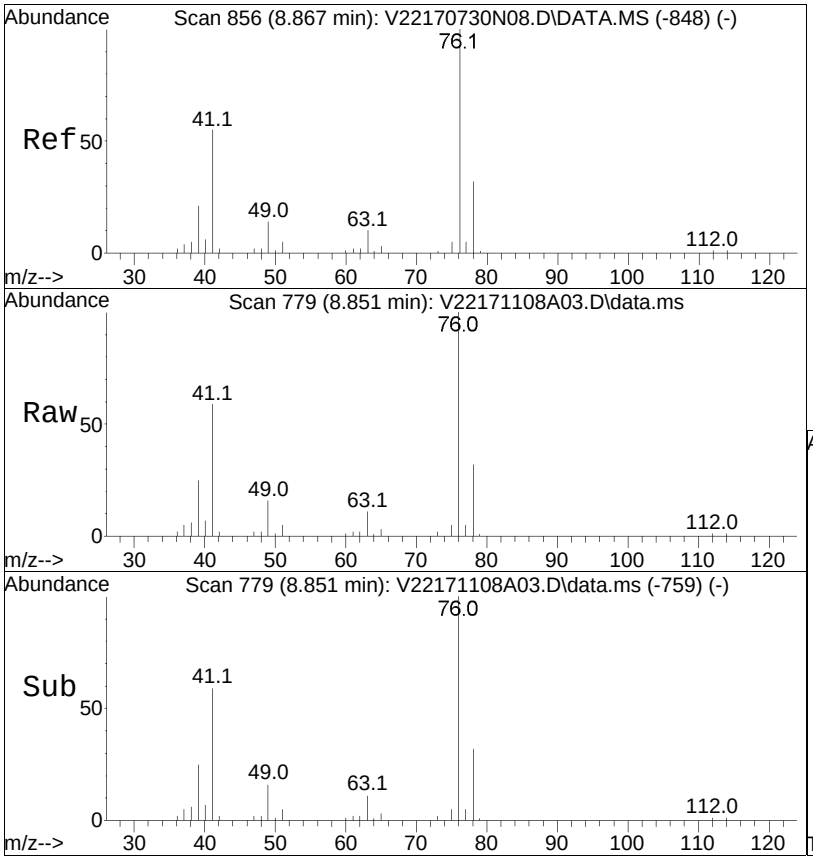


#72
Chlorodibromomethane
Concen: 8.54 ug/L
RT: 8.728 min Scan# 766
Delta R.T. -0.015 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:129 Resp: 54192

Ion	Ratio	Lower	Upper
129	100		
81	16.5	0.0	33.8
127	79.0	57.1	97.1

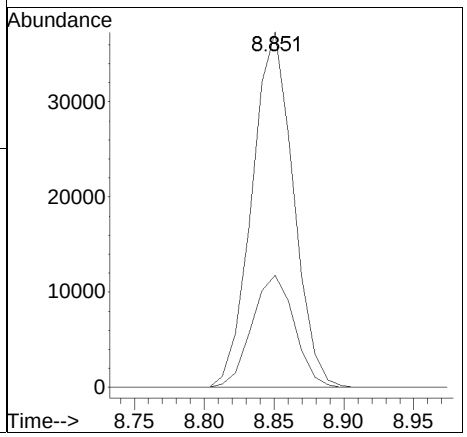


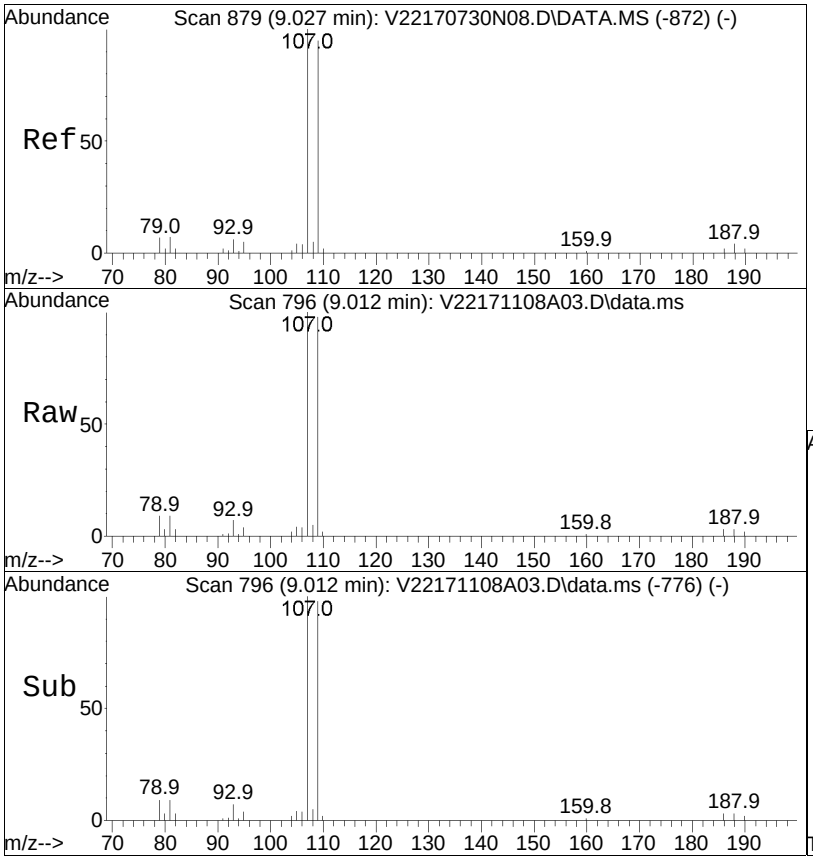


#73
1,3-Dichloropropane
Concen: 9.44 ug/L
RT: 8.851 min Scan# 779
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 76 Resp: 76978

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.7	38.5

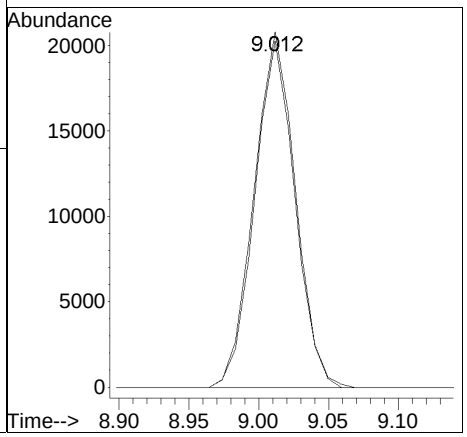


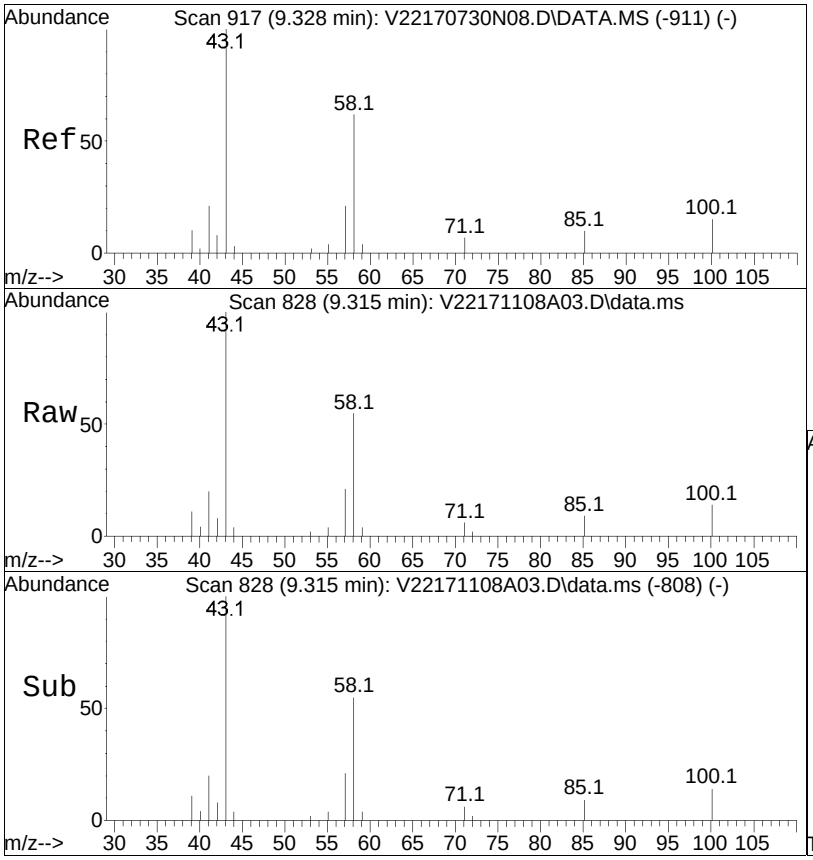


#74
1,2-Dibromoethane
Concen: 8.40 ug/L
RT: 9.012 min Scan# 796
Delta R.T. -0.015 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:107 Resp: 42812

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.1	112.7

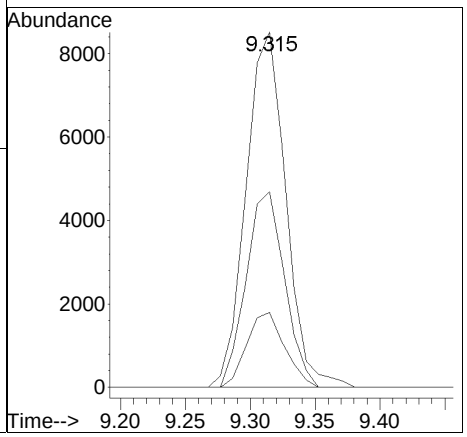


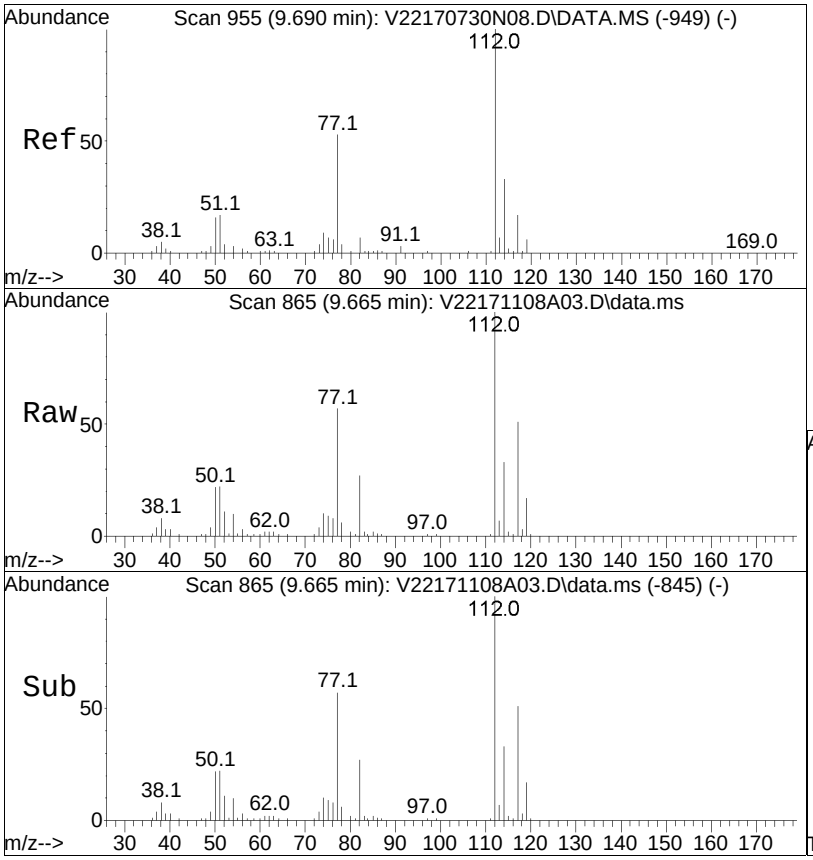


#76
2-Hexanone
Concen: 10.08 ug/L
RT: 9.315 min Scan# 828
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 43 Resp: 18206

Ion	Ratio	Lower	Upper
43	100		
58	53.3	47.6	71.4
57	20.1	16.6	24.8

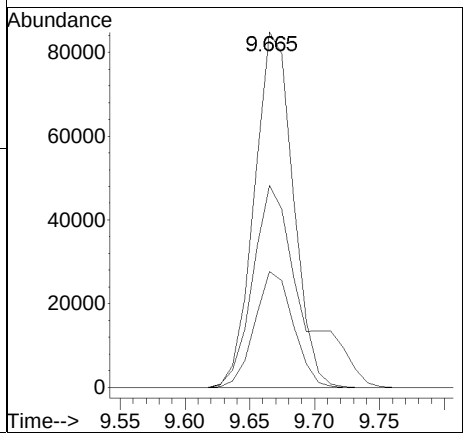


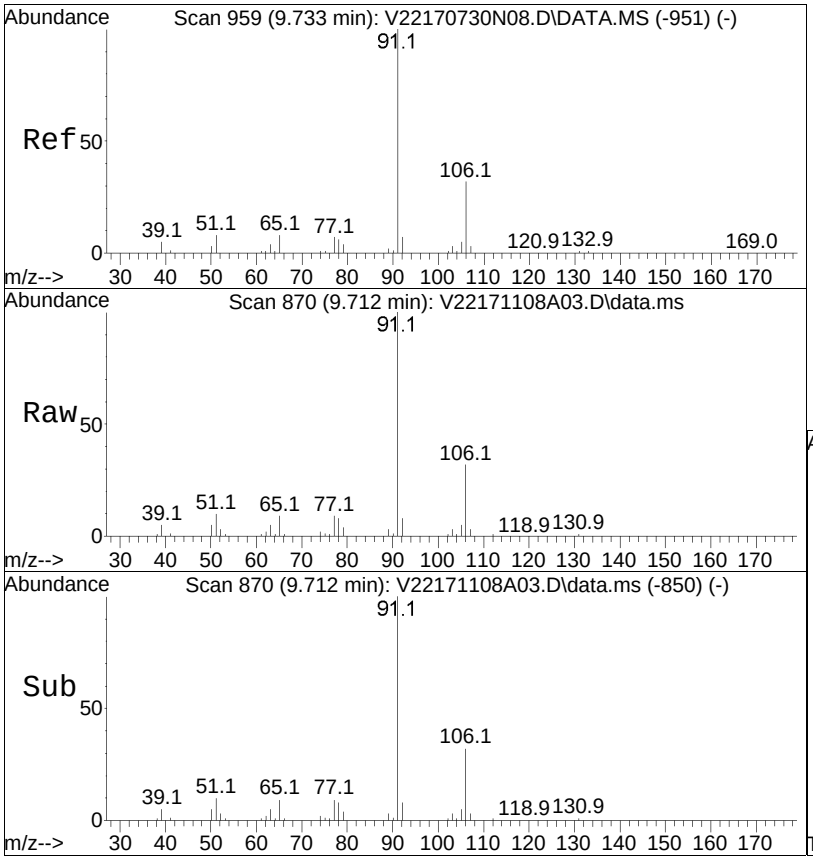


#77
Chlorobenzene
Concen: 8.92 ug/L
RT: 9.665 min Scan# 865
Delta R.T. -0.015 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:112 Resp: 176442

Ion	Ratio	Lower	Upper
112	100		
77	72.4	55.4	83.0
114	32.4	26.2	39.4

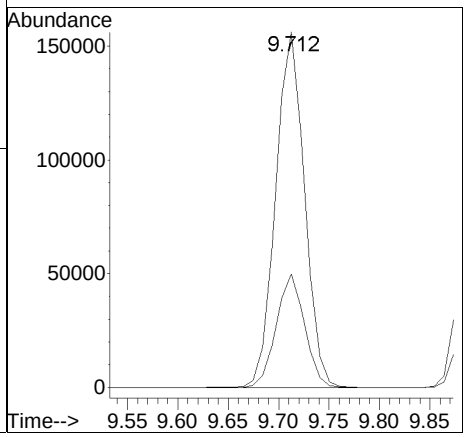


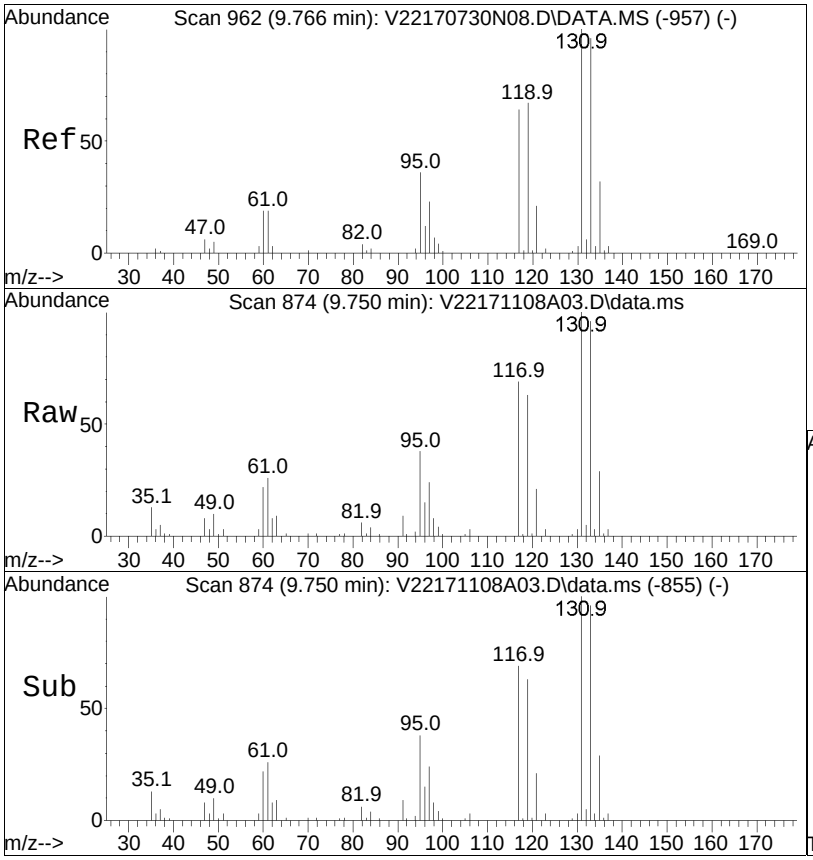


#78
Ethylbenzene
Concen: 9.28 ug/L
RT: 9.712 min Scan# 870
Delta R.T. -0.011 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 91 Resp: 310209

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.8	38.6

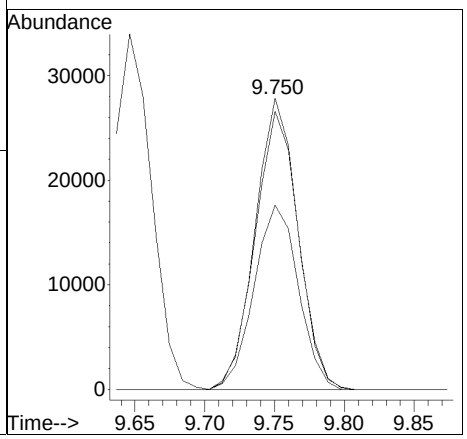


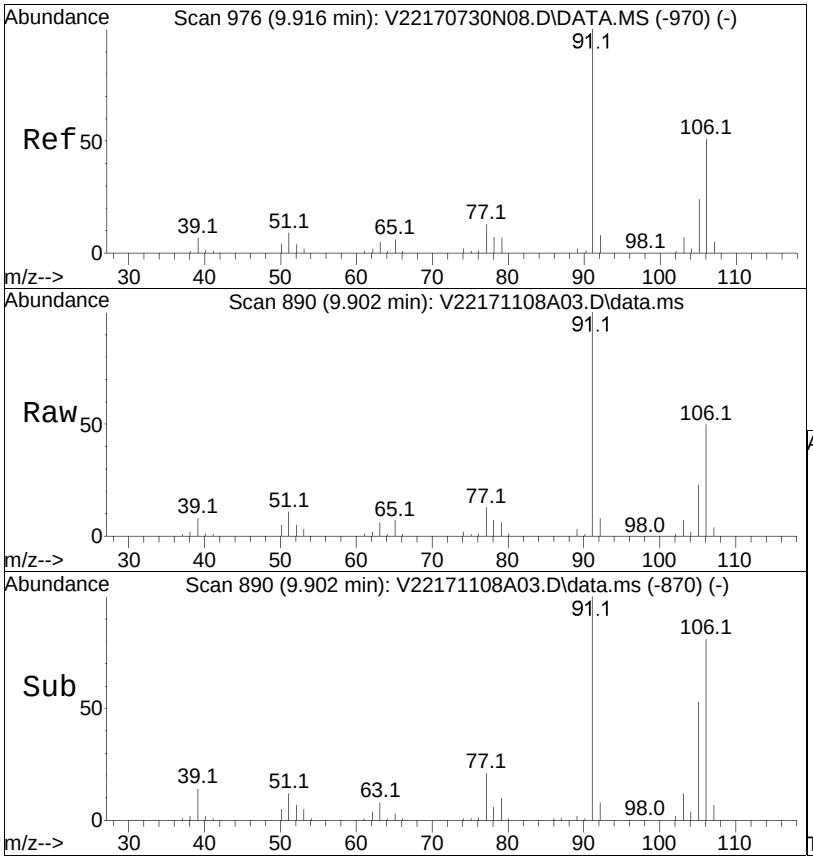


#79
1,1,1,2-Tetrachloroethane
Concen: 8.60 ug/L
RT: 9.750 min Scan# 874
Delta R.T. -0.016 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:131 Resp: 59308

Ion	Ratio	Lower	Upper
131	100		
133	96.7	75.3	115.3
119	65.6	49.3	89.3

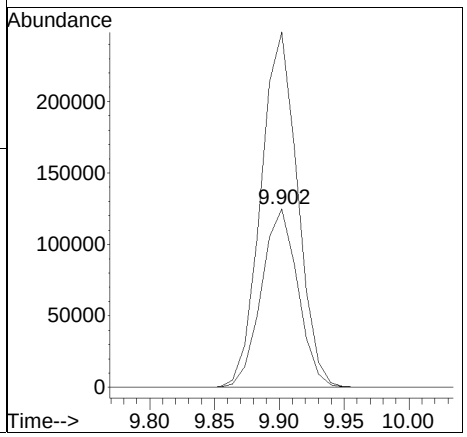


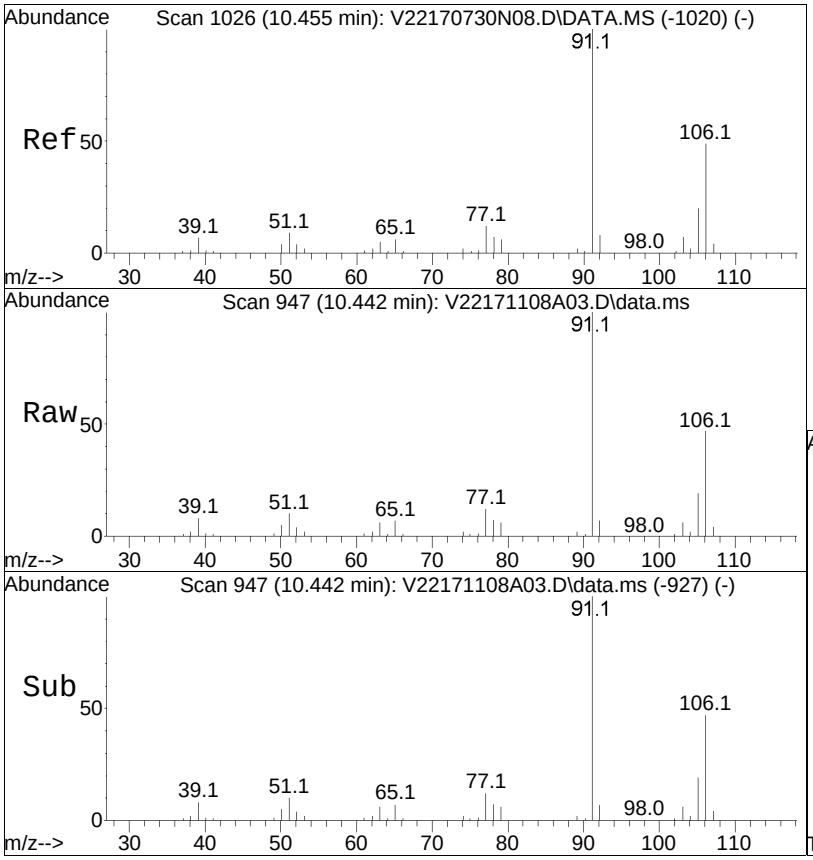


#80
p/m Xylene
Concen: 18.29 ug/L
RT: 9.902 min Scan# 890
Delta R.T. -0.014 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:106 Resp: 244858

Ion	Ratio	Lower	Upper
106	100		
91	200.0	156.0	234.0

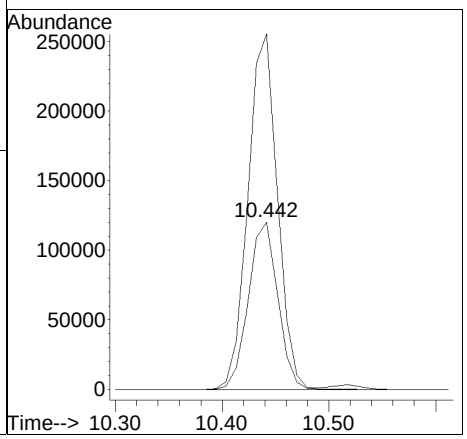


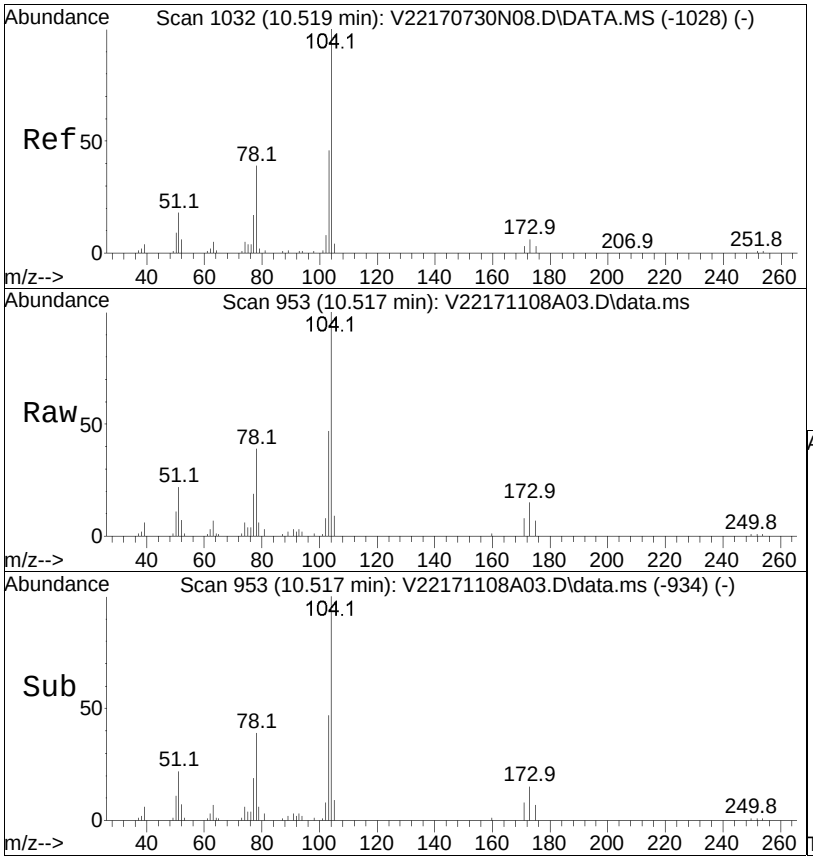


#81
o Xylene
Concen: 21.26 ug/L
RT: 10.442 min Scan# 947
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:106 Resp: 261048

Ion	Ratio	Lower	Upper
106	100		
91	187.6	164.0	246.0

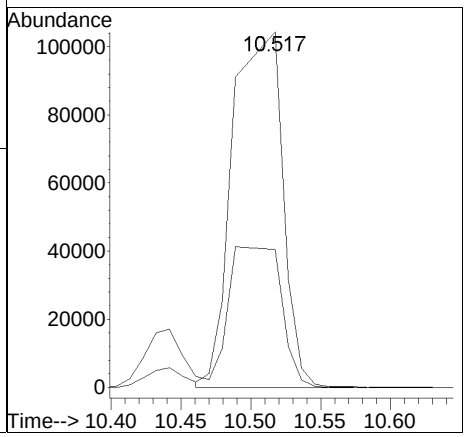


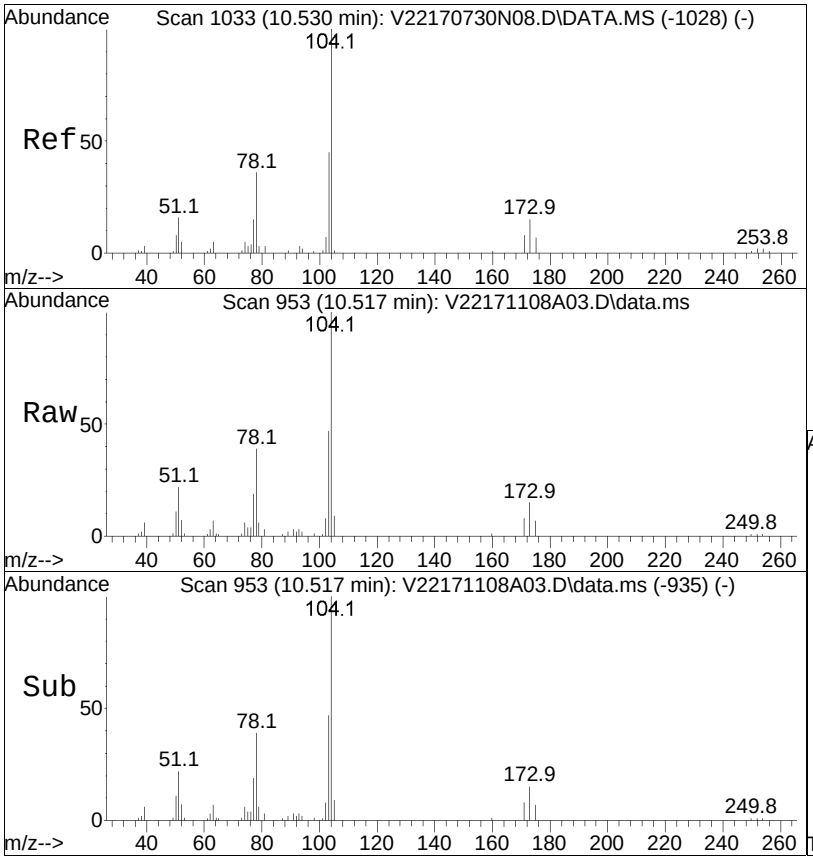


#82
Styrene
Concen: 8.94 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.002 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:104 Resp: 177148

Ion	Ratio	Lower	Upper
104	100		
78	41.5	32.1	48.1

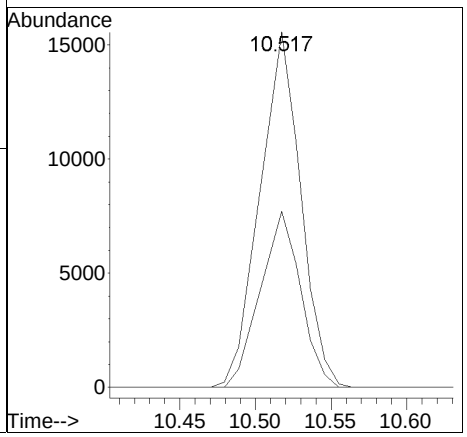


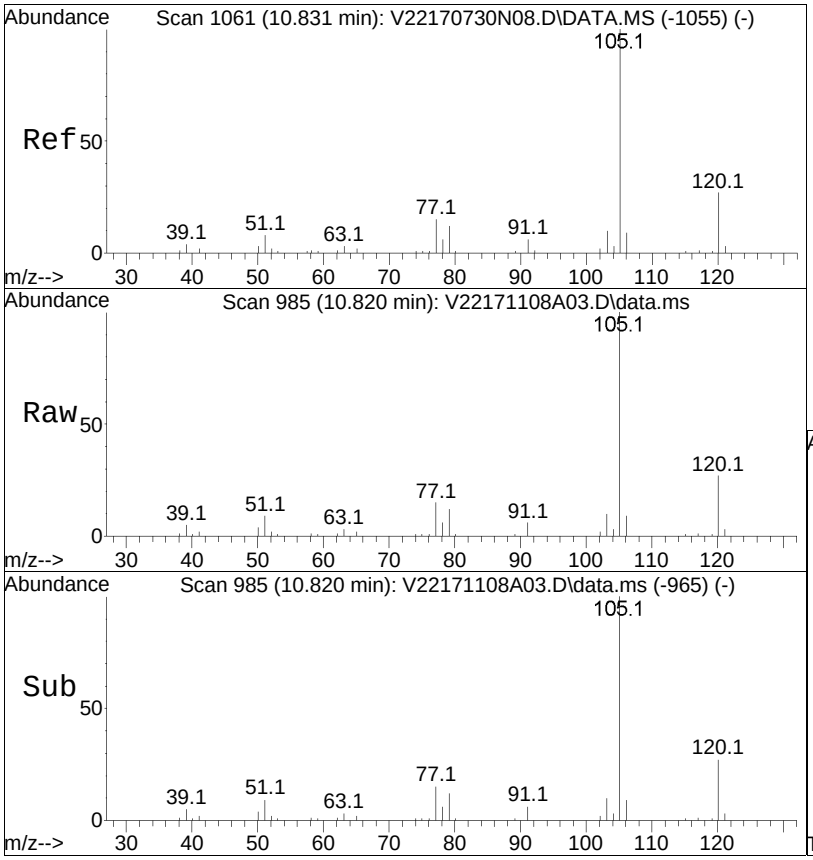


#84
Bromoform
Concen: 5.65 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:173 Resp: 23230

Ion	Ratio	Lower	Upper
173	100		
175	50.7	29.3	69.3

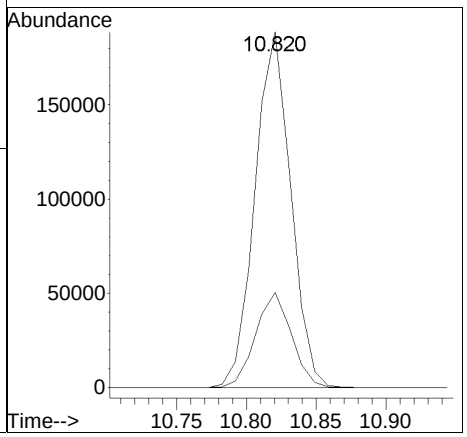


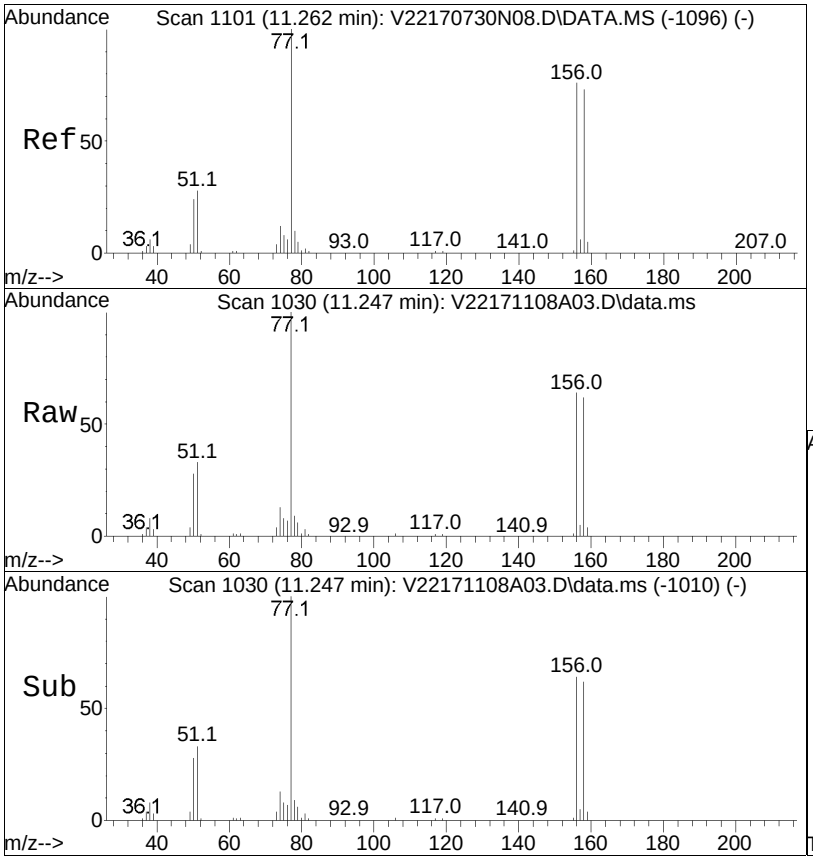


#86
Isopropylbenzene
Concen: 10.02 ug/L
RT: 10.820 min Scan# 985
Delta R.T. -0.011 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:105 Resp: 335826

Ion	Ratio	Lower	Upper
105	100		
120	26.7	7.7	47.7

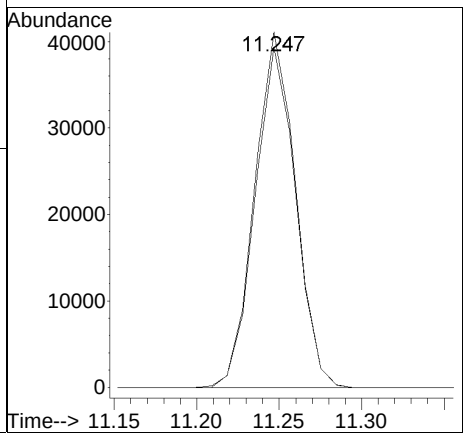


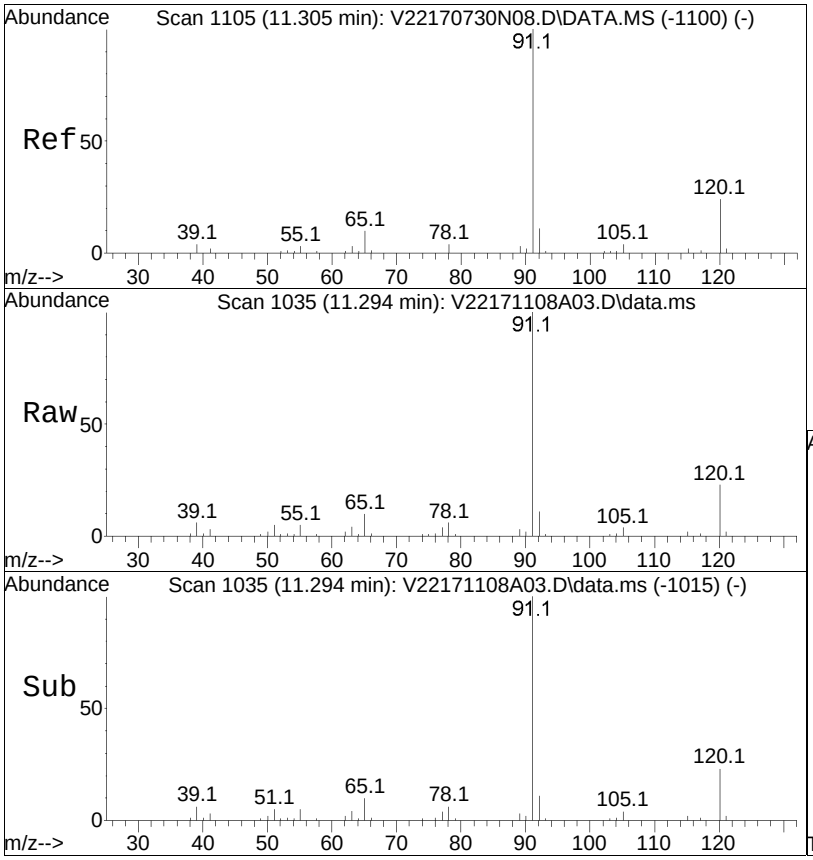


#88
Bromobenzene
Concen: 8.70 ug/L
RT: 11.247 min Scan# 1030
Delta R.T. -0.015 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:156 Resp: 70519

Ion	Ratio	Lower	Upper
156	100		
158	95.6	77.9	116.9

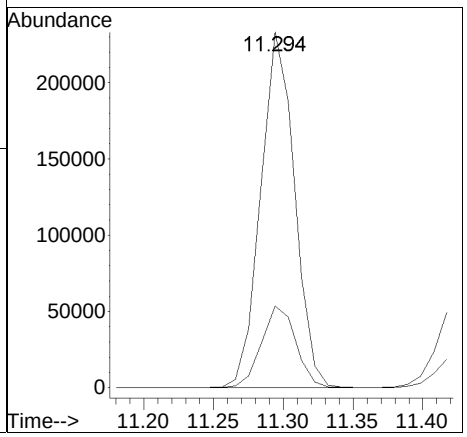


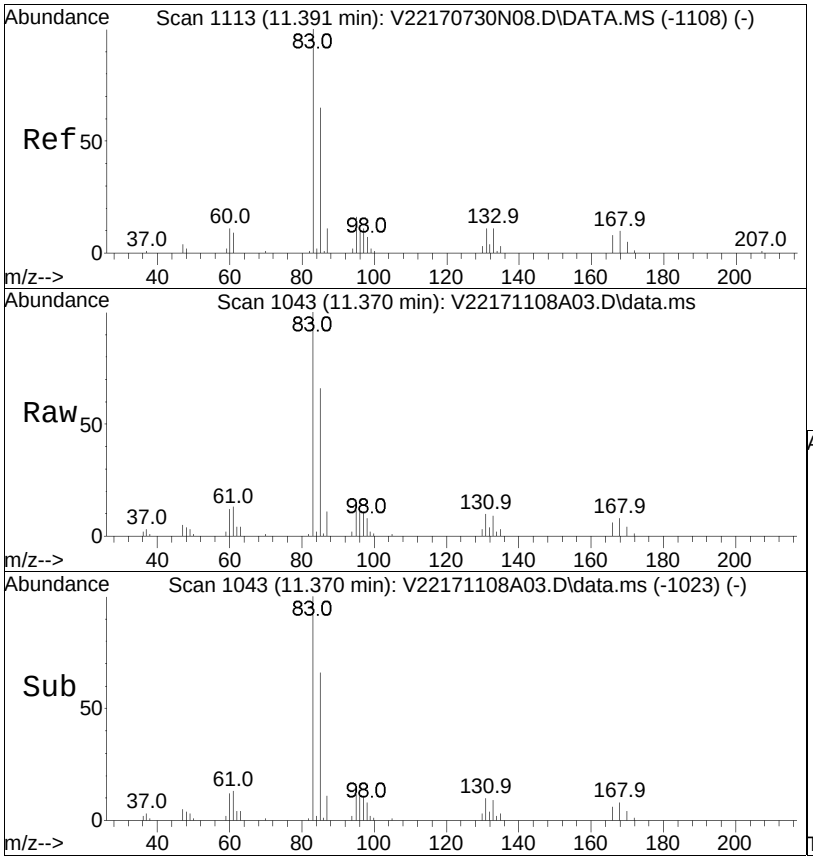


#89
n-Propylbenzene
Concen: 10.29 ug/L
RT: 11.294 min Scan# 1035
Delta R.T. -0.011 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 91 Resp: 392393

Ion	Ratio	Lower	Upper
91	100		
120	23.1	19.5	29.3

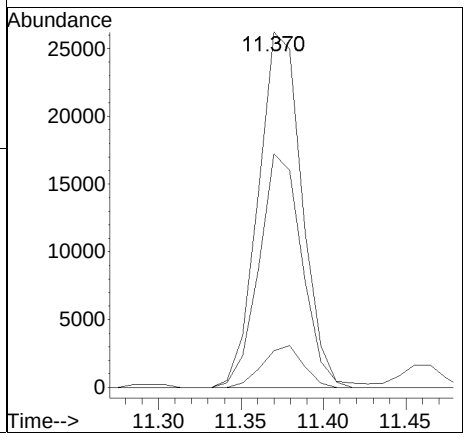


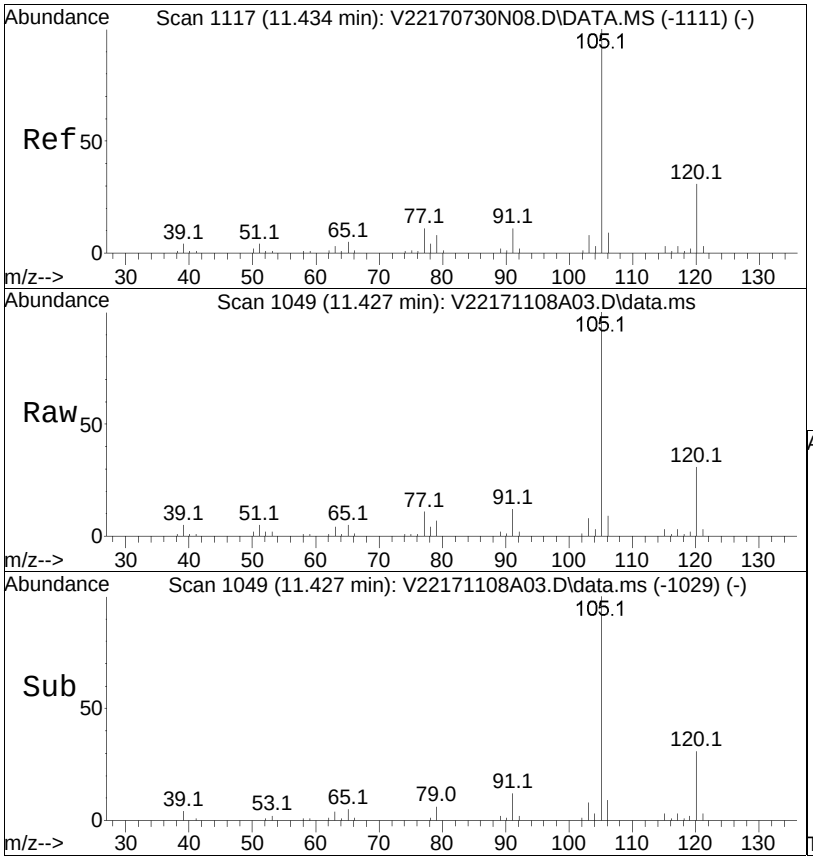


#91
1,1,2,2-Tetrachloroethane
Concen: 9.68 ug/L
RT: 11.370 min Scan# 1043
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 83 Resp: 48153

Ion	Ratio	Lower	Upper
83	100		
131	11.0	0.0	30.8
85	65.4	45.4	85.4

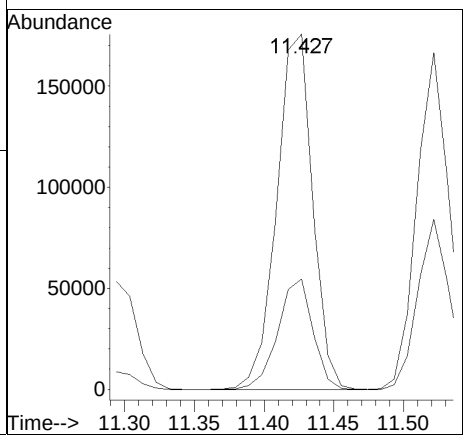


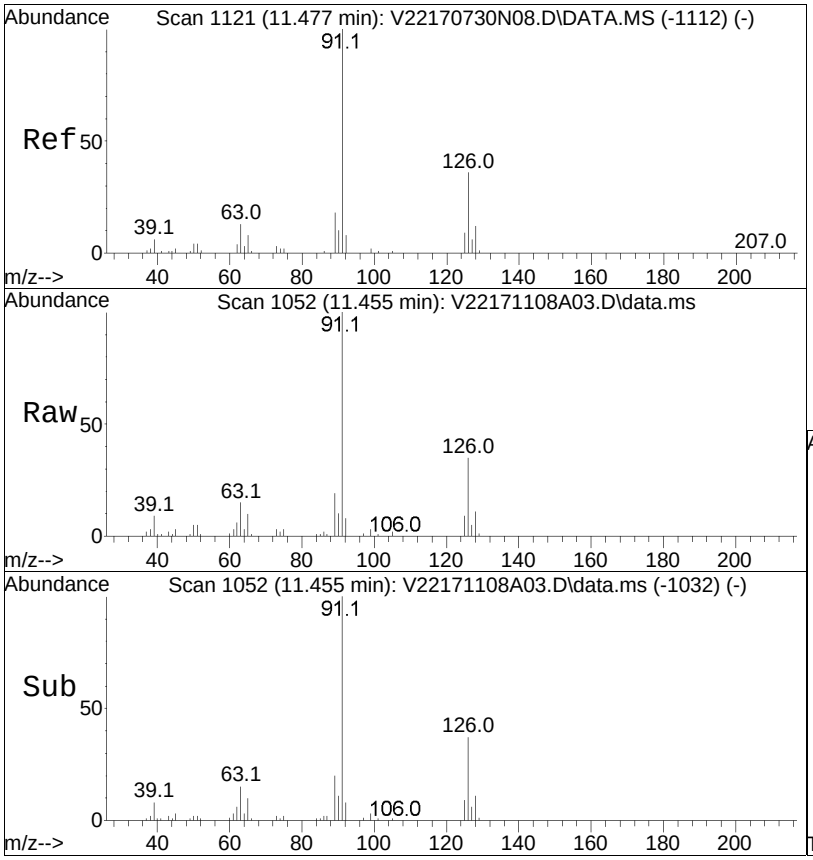


#92
4-Ethyltoluene
Concen: 10.24 ug/L
RT: 11.427 min Scan# 1049
Delta R.T. -0.007 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:105 Resp: 314670

Ion	Ratio	Lower	Upper
105	100		
120	30.3	19.8	41.0

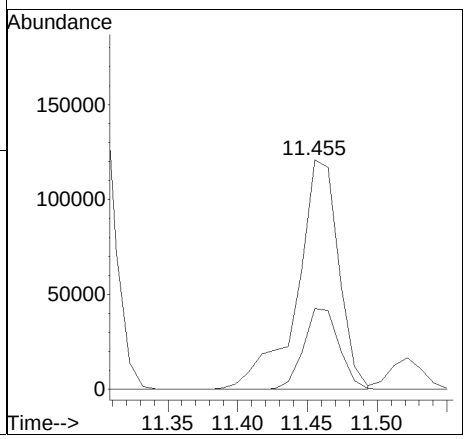


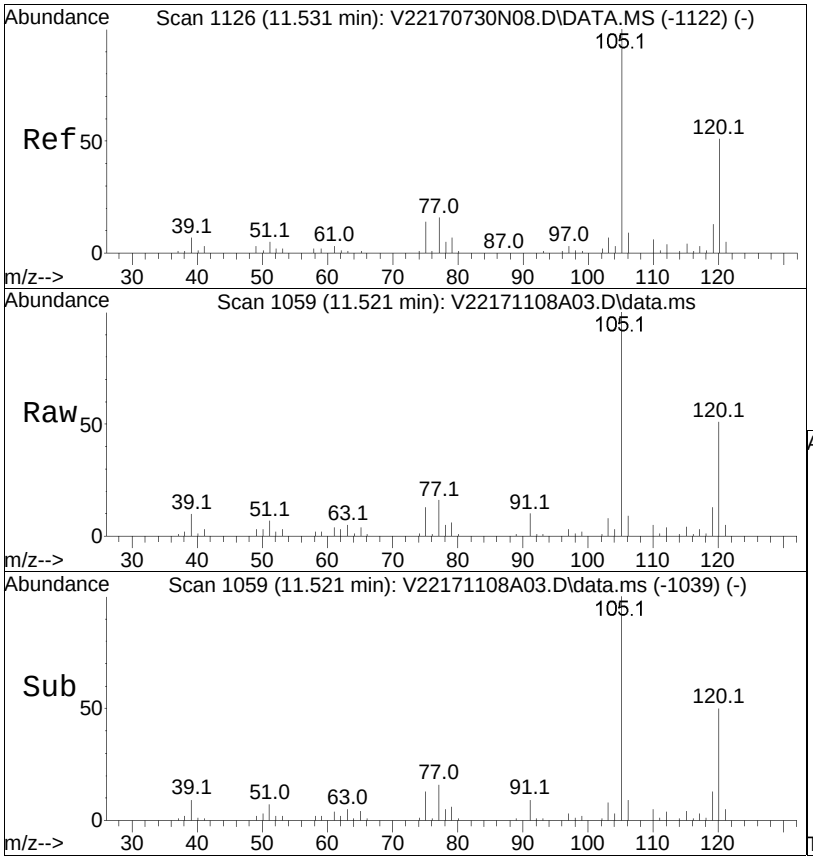


#93
2-Chlorotoluene
Concen: 10.23 ug/L
RT: 11.455 min Scan# 1052
Delta R.T. -0.011 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 91 Resp: 251983

Ion	Ratio	Lower	Upper
91	100		
126	29.9	24.6	37.0

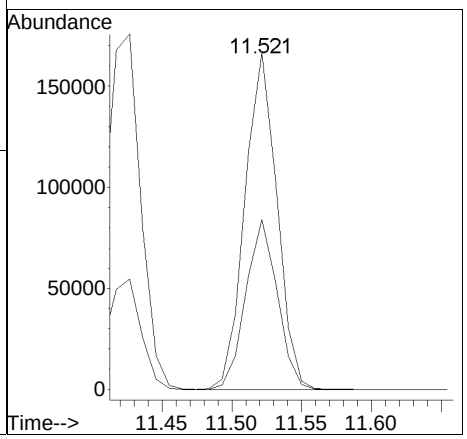


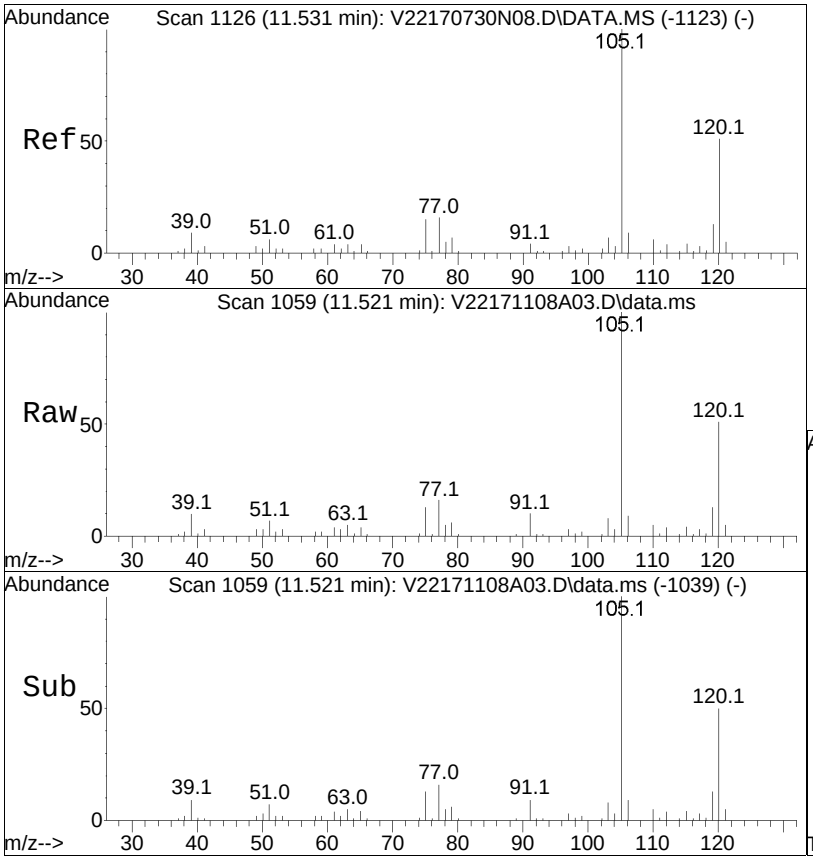


#94
1,3,5-Trimethylbenzene
Concen: 10.16 ug/L
RT: 11.521 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:105 Resp: 266544

Ion	Ratio	Lower	Upper
105	100		
120	49.7	40.9	61.3

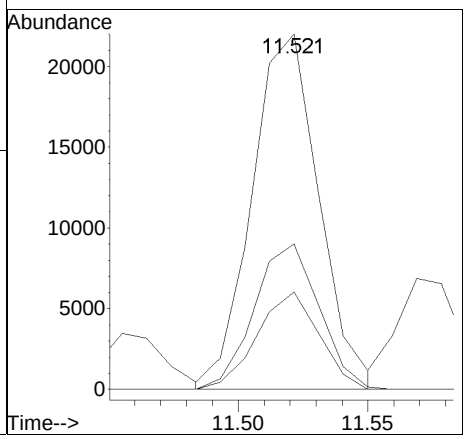


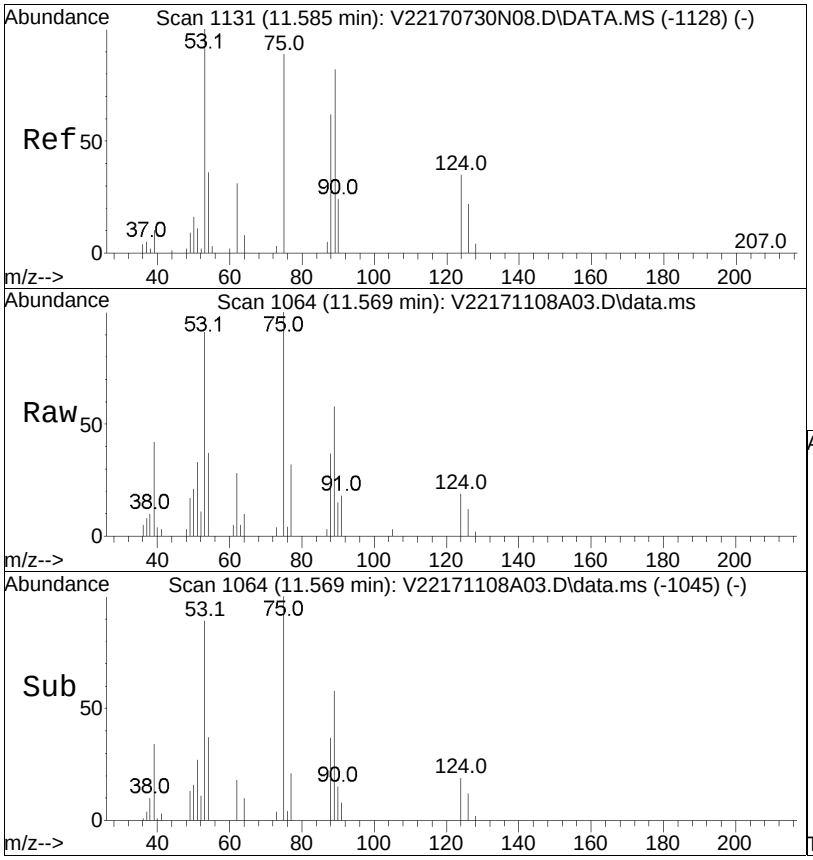


#95
1,2,3-Trichloropropane
Concen: 9.90 ug/L
RT: 11.521 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 75 Resp: 39527

Ion	Ratio	Lower	Upper
75	100		
110	39.7	26.3	54.7
112	25.4	16.8	35.0

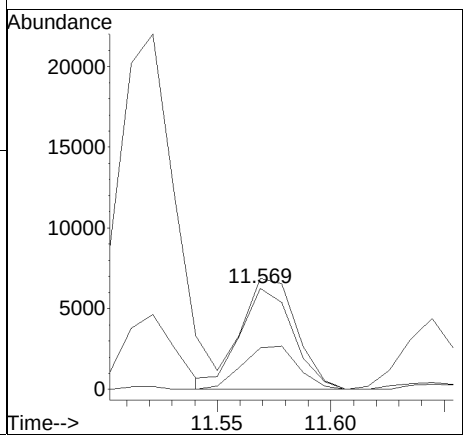


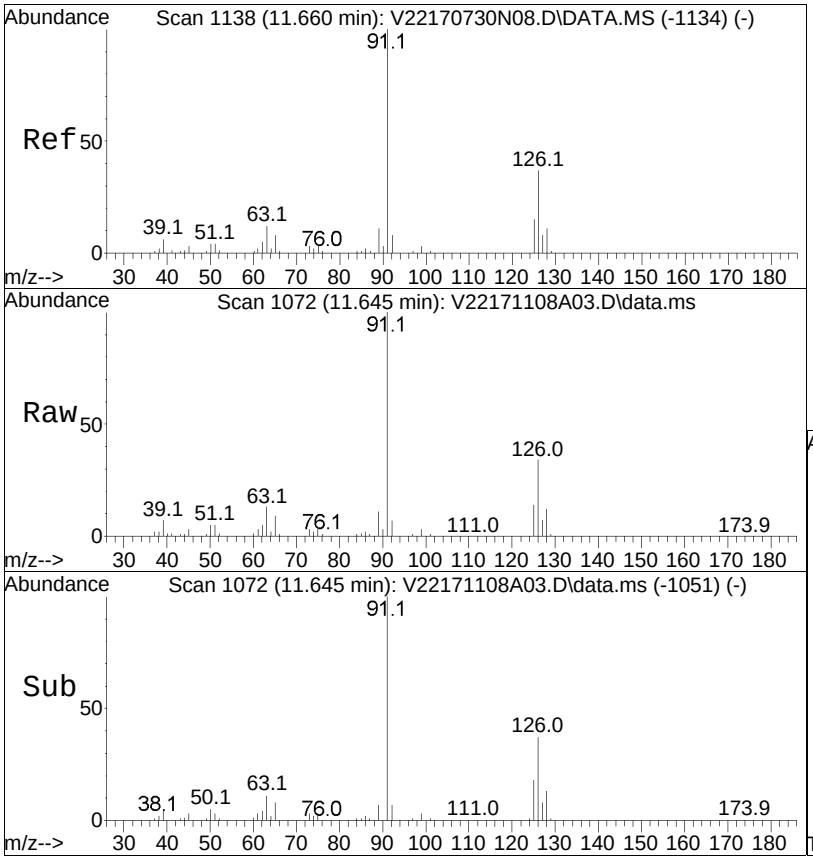


#96
trans-1,4-Dichloro-2-butene
Concen: 8.21 ug/L
RT: 11.569 min Scan# 1064
Delta R.T. -0.016 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 53 Resp: 10288

Ion	Ratio	Lower	Upper
53	100		
88	44.5	46.3	69.5#
75	110.0	109.0	163.4

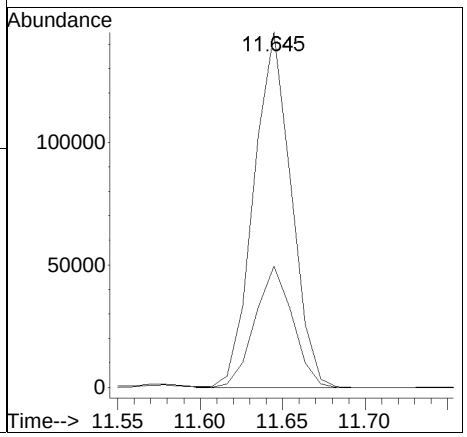


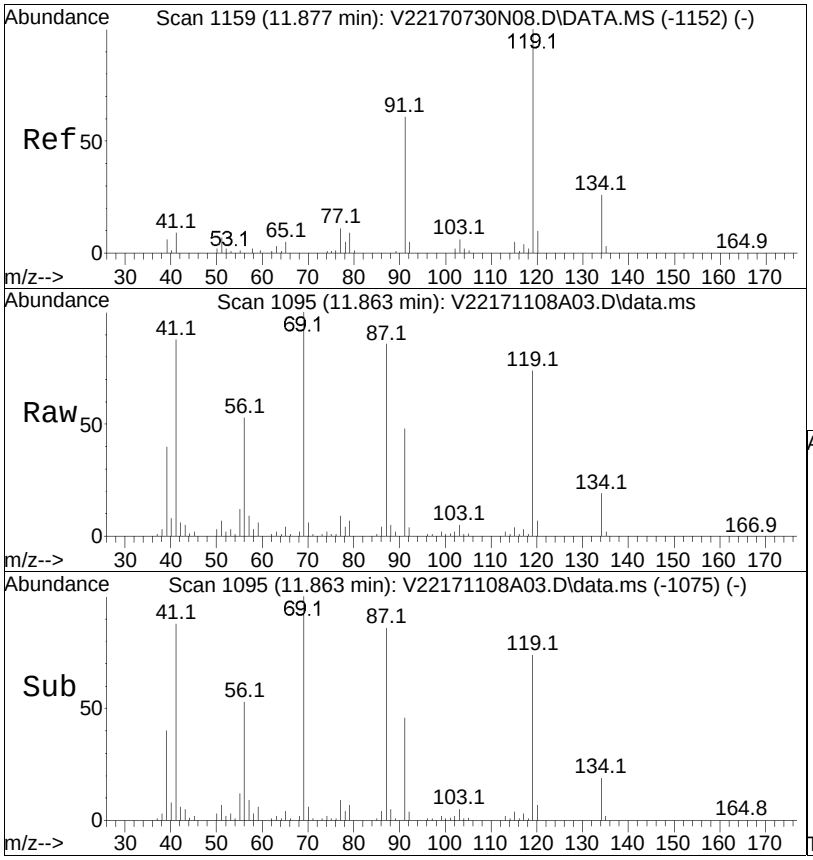


#97
4-Chlorotoluene
Concen: 10.20 ug/L
RT: 11.645 min Scan# 1072
Delta R.T. -0.004 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 91 Resp: 228911

Ion	Ratio	Lower	Upper
91	100		
126	34.2	28.5	42.7

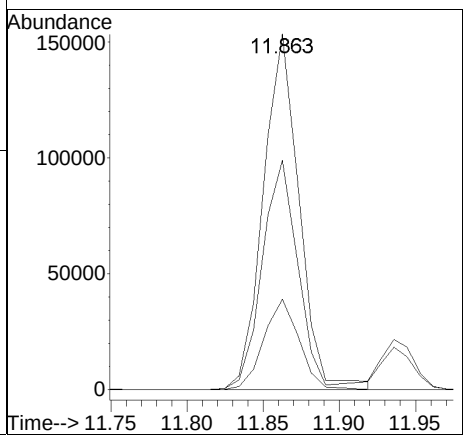


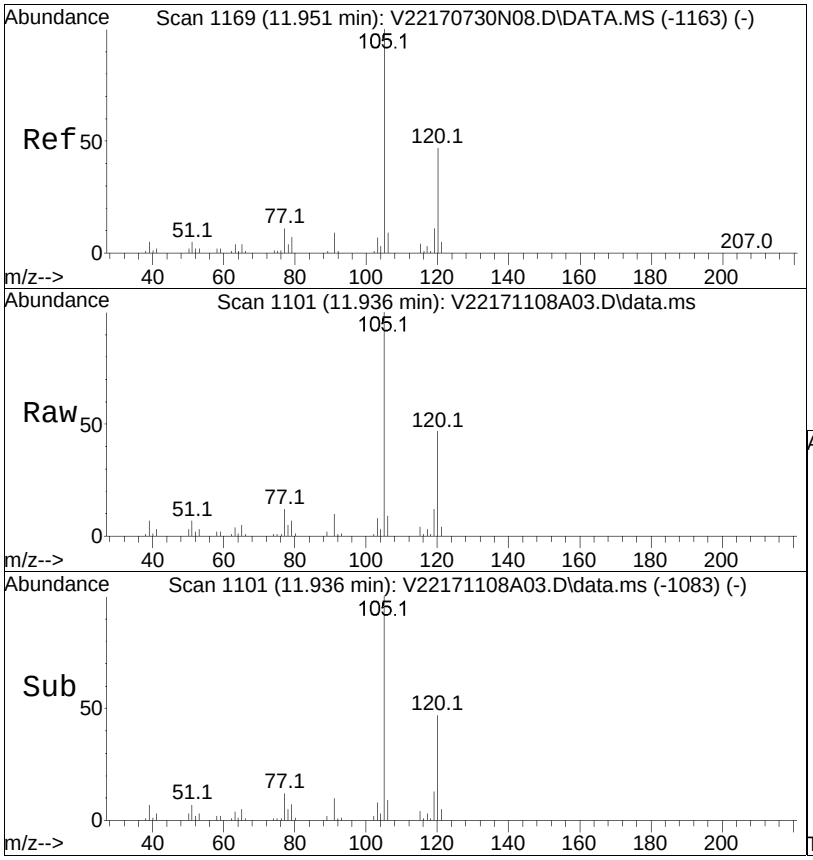


#98
tert-Butylbenzene
Concen: 12.26 ug/L
RT: 11.863 min Scan# 1095
Delta R.T. -0.007 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:119 Resp: 294837

Ion	Ratio	Lower	Upper
119	100		
91	54.0	50.2	75.4
134	24.9	20.8	31.2

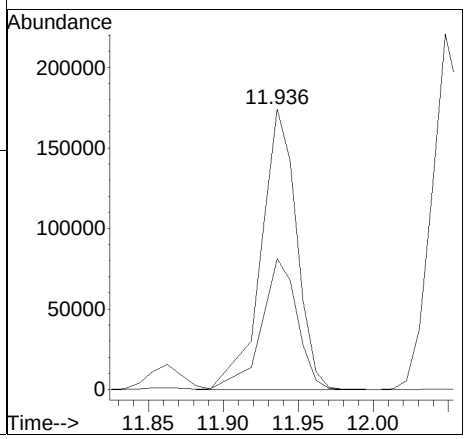


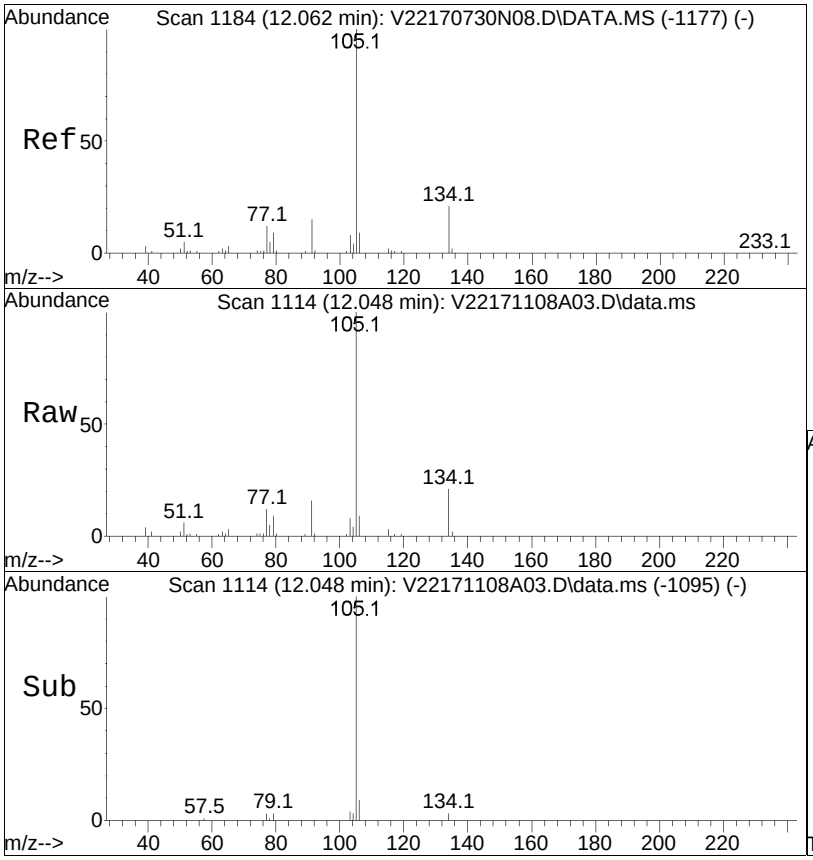


#101
1,2,4-Trimethylbenzene
Concen: 12.37 ug/L
RT: 11.936 min Scan# 1101
Delta R.T. -0.015 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:105 Resp: 324971

Ion	Ratio	Lower	Upper
105	100		
120	48.3	38.5	57.7

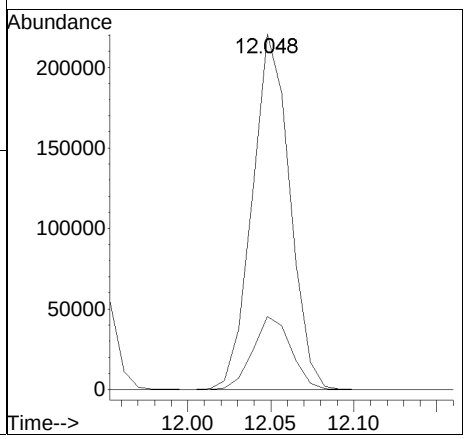


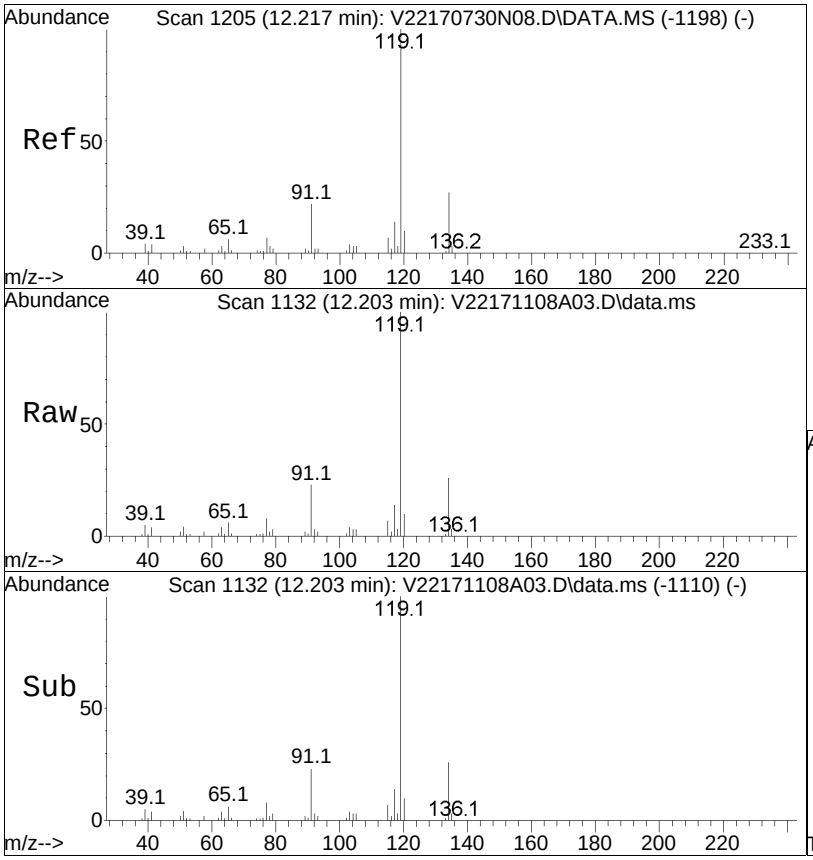


#102
sec-Butylbenzene
Concen: 10.18 ug/L
RT: 12.048 min Scan# 1114
Delta R.T. -0.014 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:105 Resp: 346566

Ion	Ratio	Lower	Upper
105	100		
134	20.8	13.9	28.9

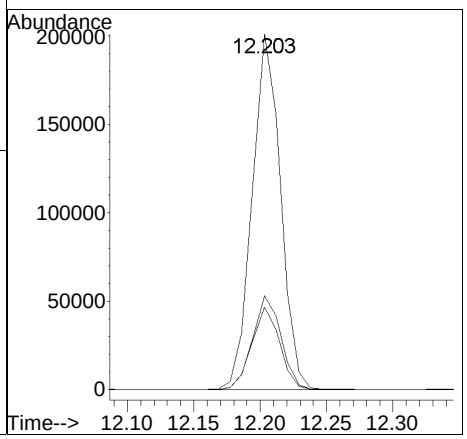


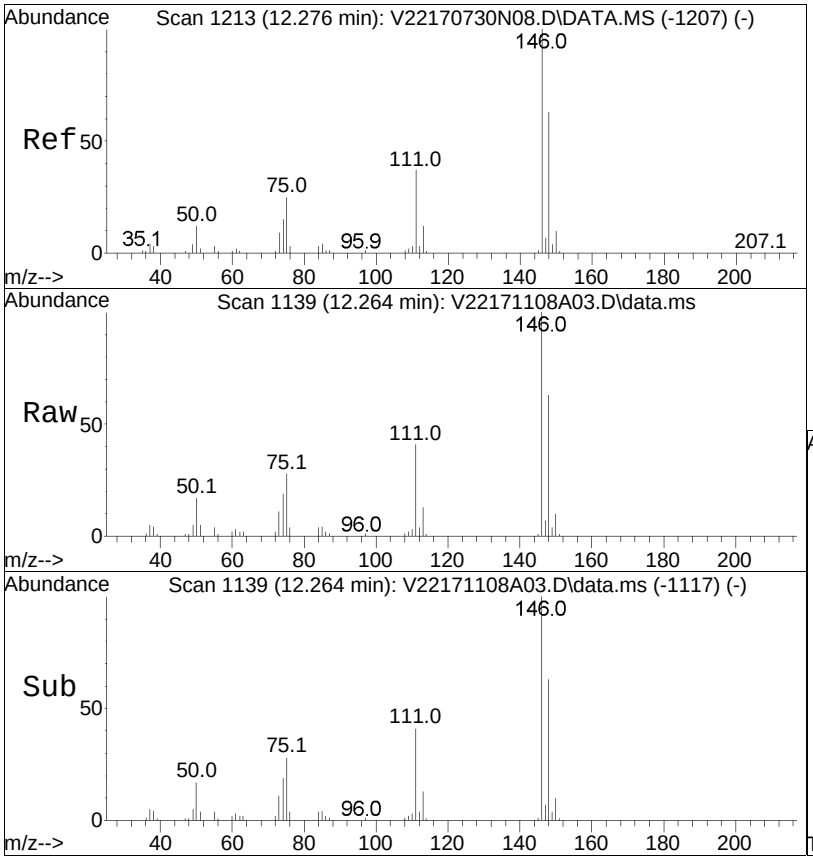


#103
p-Isopropyltoluene
Concen: 10.10 ug/L
RT: 12.203 min Scan# 1132
Delta R.T. -0.014 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:119 Resp: 298620

Ion	Ratio	Lower	Upper
119	100		
134	26.3	17.7	36.7
91	22.8	14.1	29.3

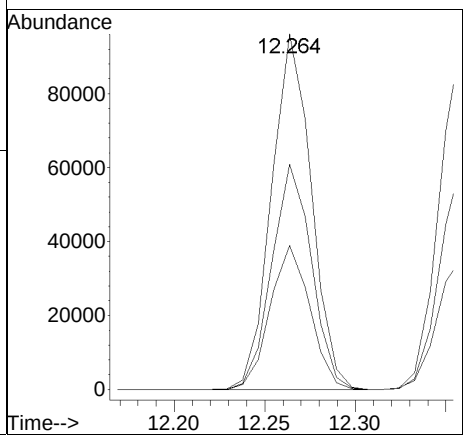


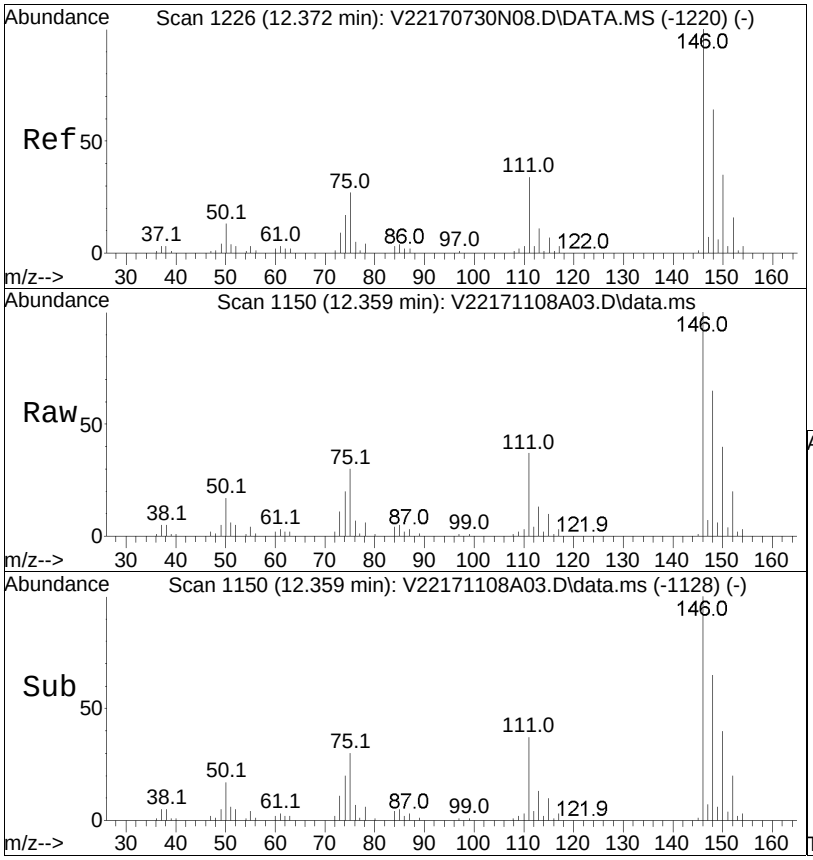


#104
1,3-Dichlorobenzene
Concen: 9.35 ug/L
RT: 12.264 min Scan# 1139
Delta R.T. -0.012 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:146 Resp: 146852

Ion	Ratio	Lower	Upper
146	100		
111	40.6	24.0	49.8
148	63.3	41.8	86.8

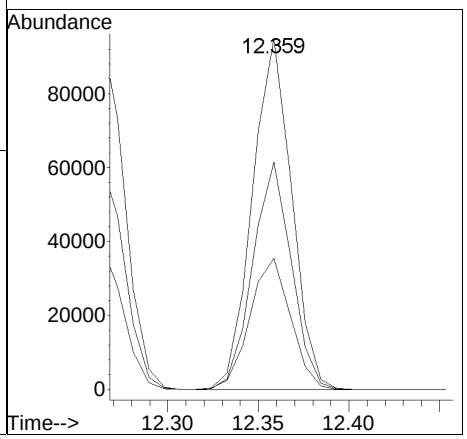


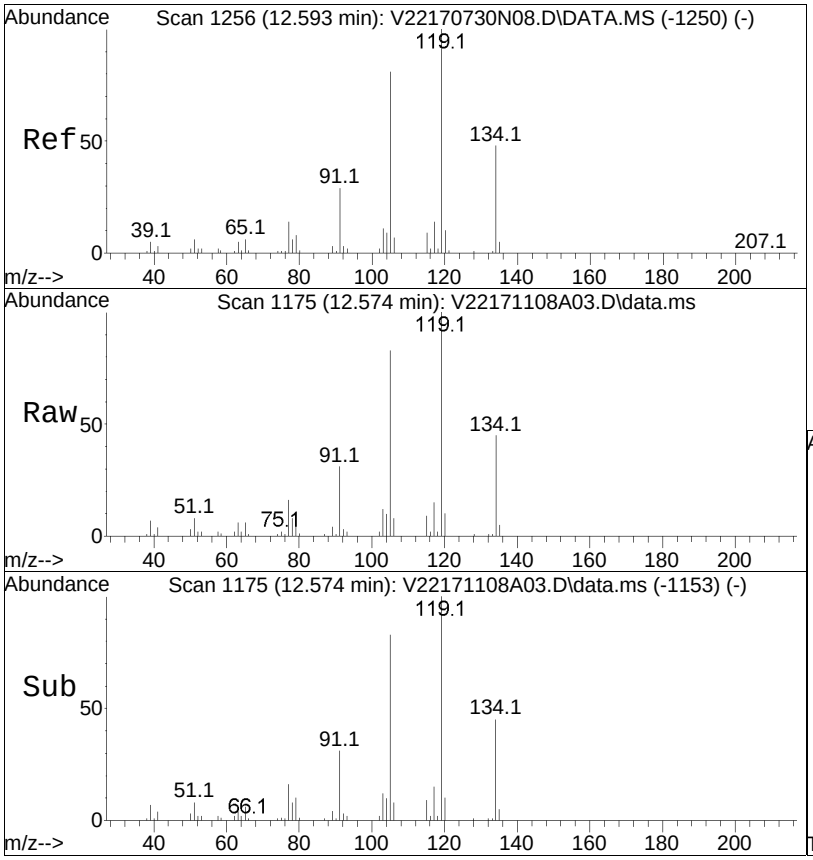


#105
1,4-Dichlorobenzene
Concen: 9.23 ug/L
RT: 12.359 min Scan# 1150
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:146 Resp: 143121

Ion	Ratio	Lower	Upper
146	100		
111	38.7	28.9	43.3
148	63.8	51.4	77.2

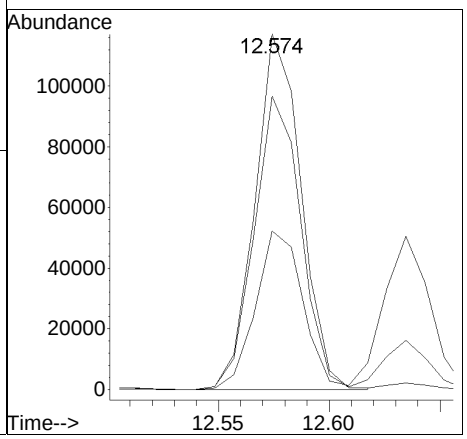


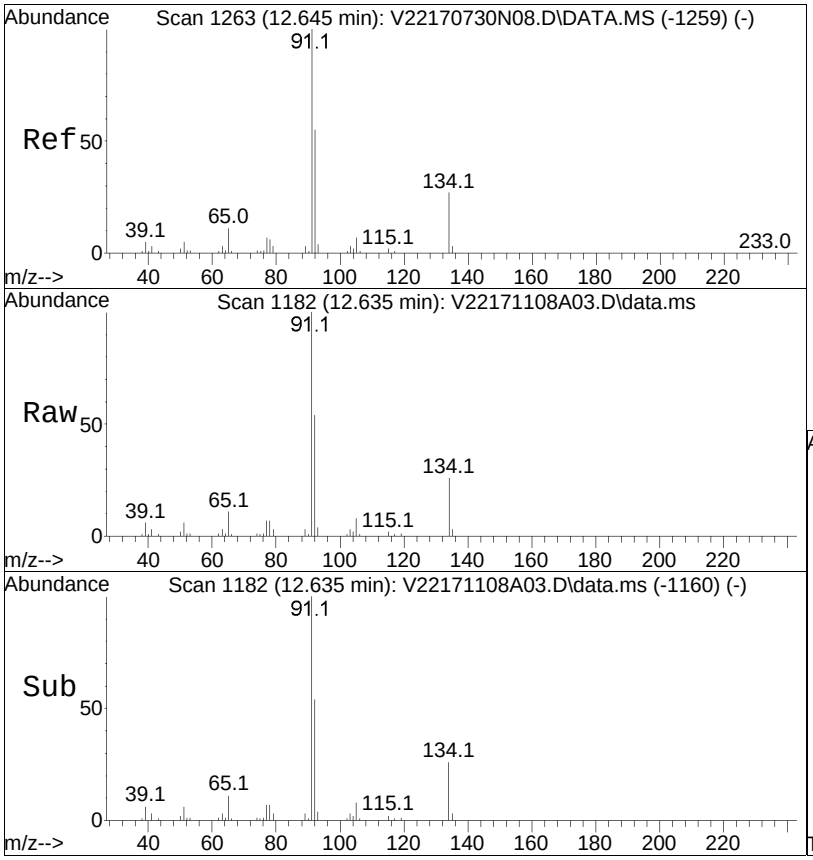


#106
p-Diethylbenzene
Concen: 9.90 ug/L
RT: 12.574 min Scan# 1175
Delta R.T. -0.012 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:119 Resp: 169677

Ion	Ratio	Lower	Upper
119	100		
105	83.5	53.4	110.8
134	45.8	30.9	64.1

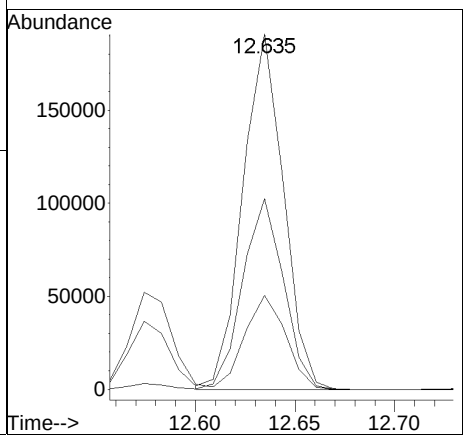


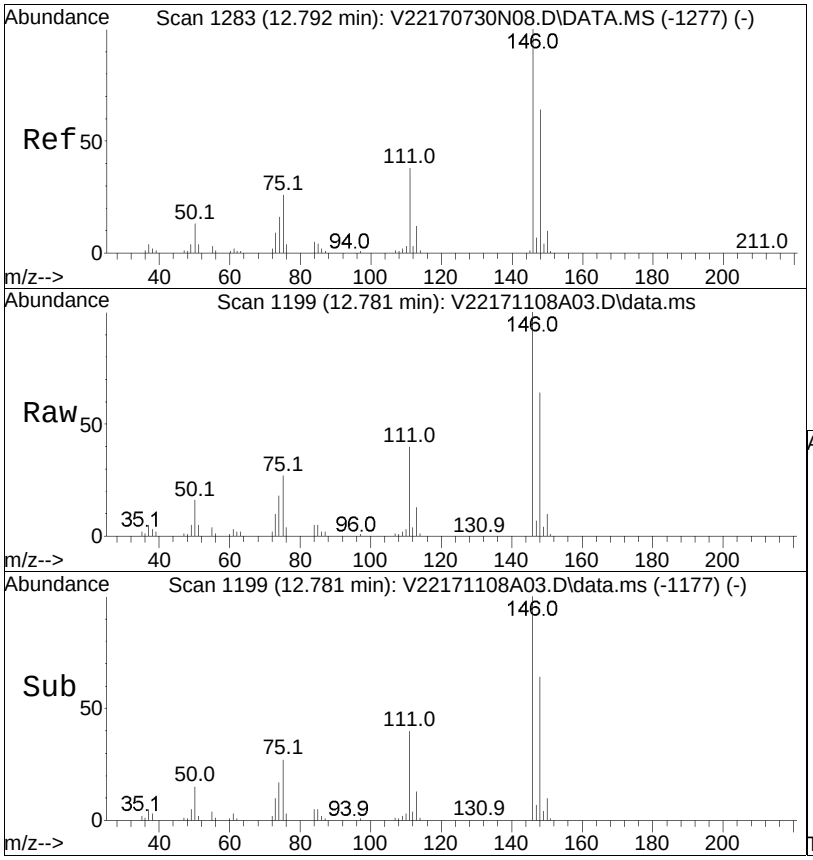


#107
n-Butylbenzene
Concen: 10.49 ug/L
RT: 12.635 min Scan# 1182
Delta R.T. -0.010 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion: 91 Resp: 271020

Ion	Ratio	Lower	Upper
91	100		
92	54.1	44.6	66.8
134	26.6	22.9	34.3

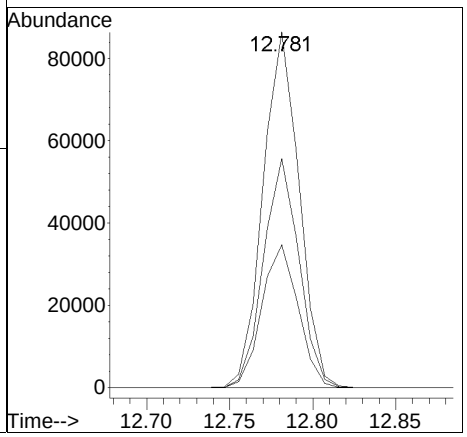


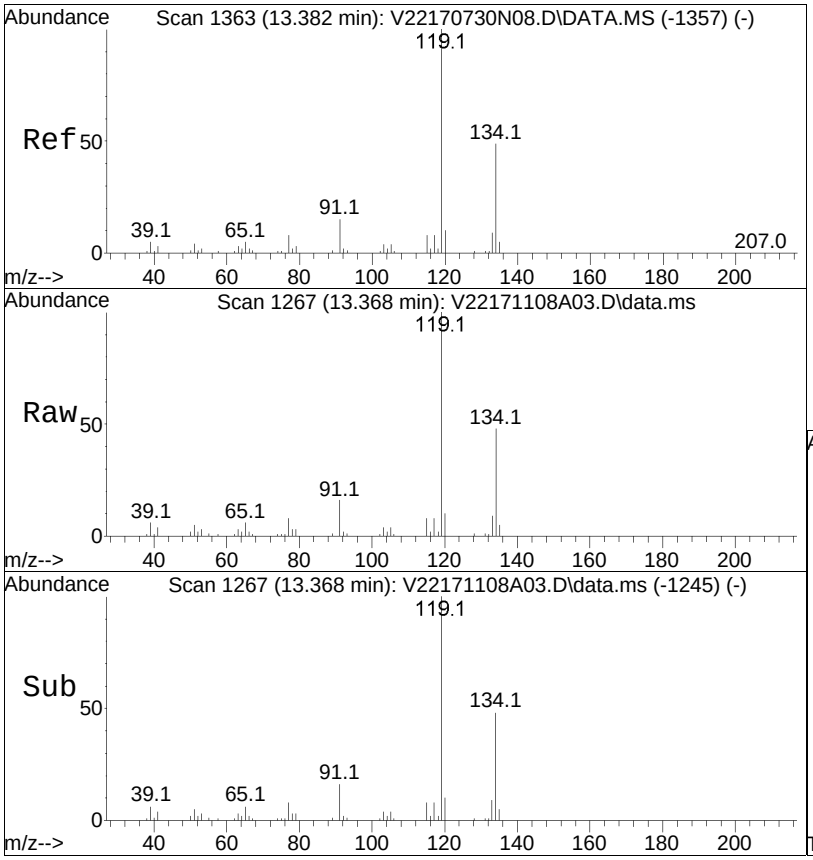


#108
1,2-Dichlorobenzene
Concen: 9.27 ug/L
RT: 12.781 min Scan# 1199
Delta R.T. -0.011 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:146 Resp: 130745

Ion	Ratio	Lower	Upper
146	100		
111	40.4	24.8	51.6
148	63.2	42.2	87.6

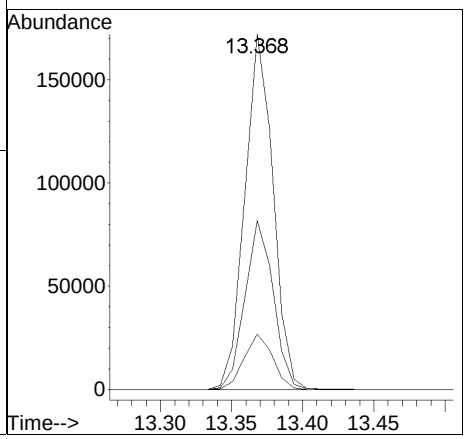


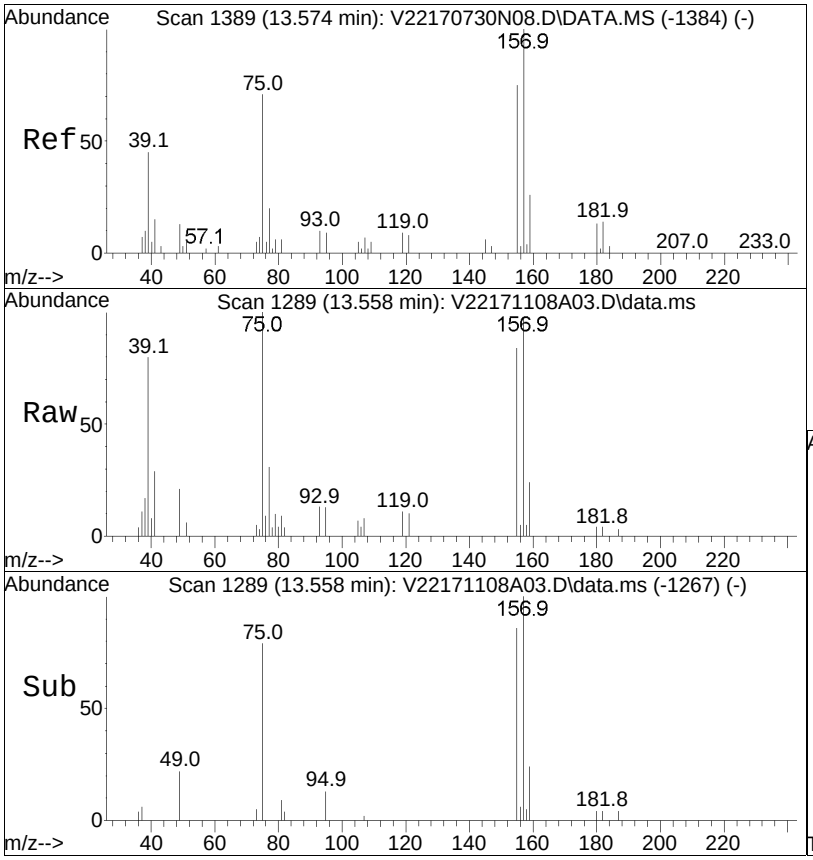


#109
1,2,4,5-Tetramethylbenzene
Concen: 9.40 ug/L
RT: 13.368 min Scan# 1267
Delta R.T. -0.014 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:119 Resp: 237970

Ion	Ratio	Lower	Upper
119	100		
134	47.6	31.9	66.1
91	15.7	9.8	20.3

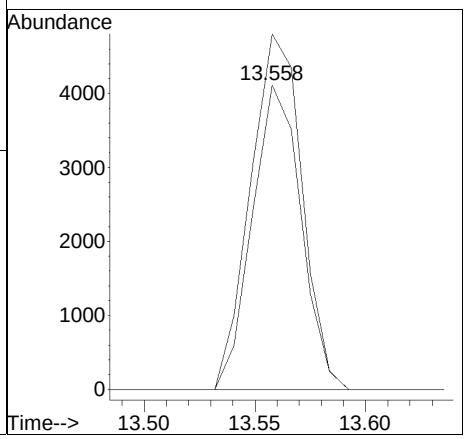


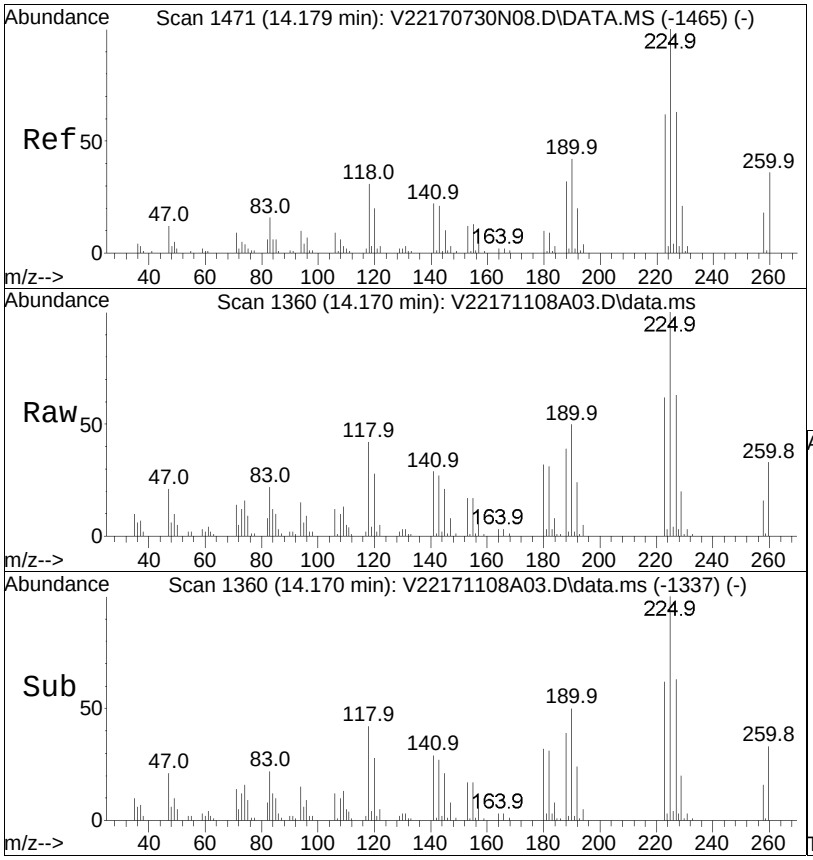


#110
1,2-Dibromo-3-chloropropane
Concen: 7.68 ug/L
RT: 13.558 min Scan# 1289
Delta R.T. -0.009 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:155 Resp: 6306

Ion	Ratio	Lower	Upper
155	100		
157	123.3	102.3	153.5

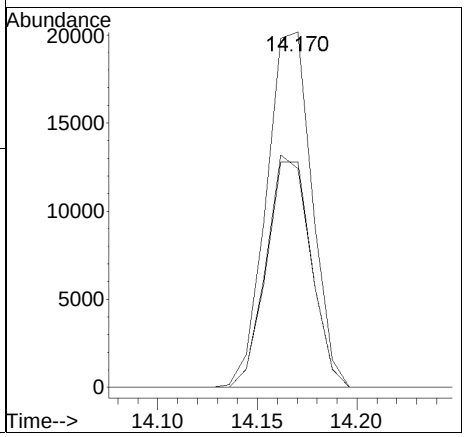


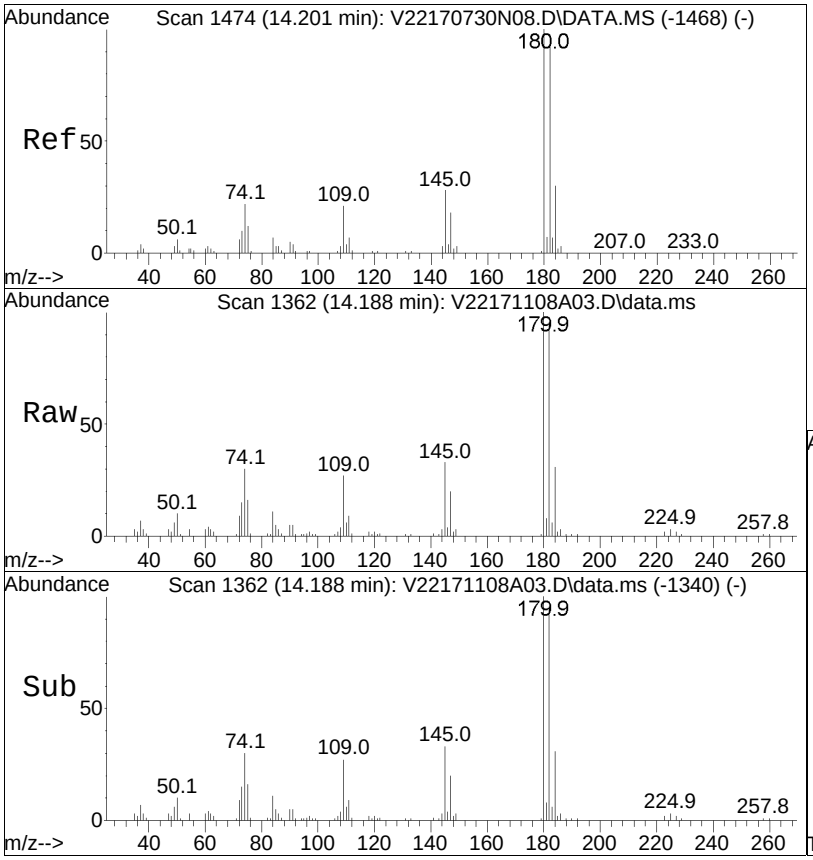


#112
Hexachlorobutadiene
Concen: 6.06 ug/L
RT: 14.170 min Scan# 1360
Delta R.T. -0.002 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:225 Resp: 32035

Ion	Ratio	Lower	Upper
225	100		
223	63.7	49.8	74.8
227	63.2	52.2	78.4

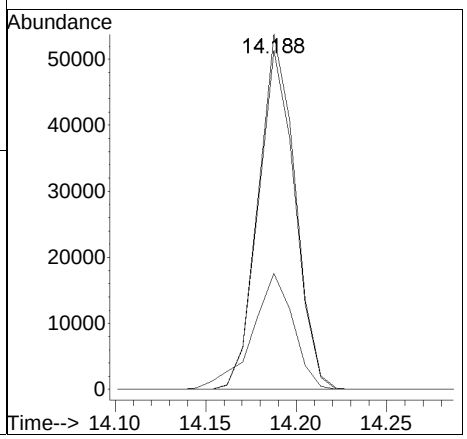


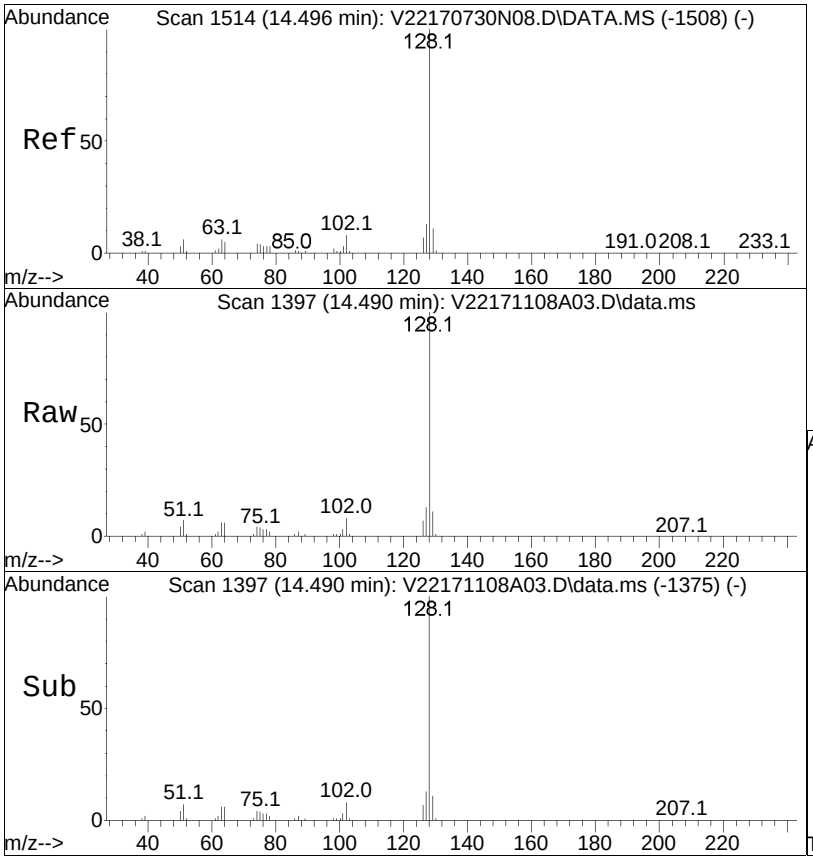


#113
1,2,4-Trichlorobenzene
Concen: 7.32 ug/L
RT: 14.188 min Scan# 1362
Delta R.T. -0.013 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:180 Resp: 76041

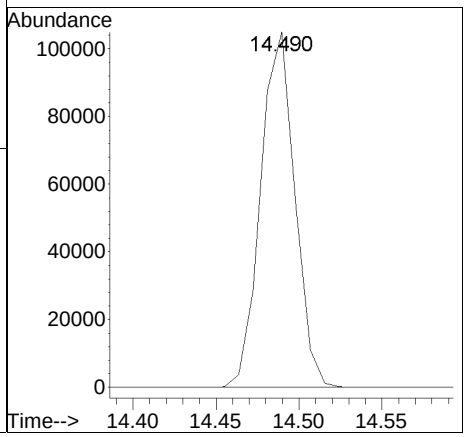
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.6	114.8
145	36.4	25.5	38.3

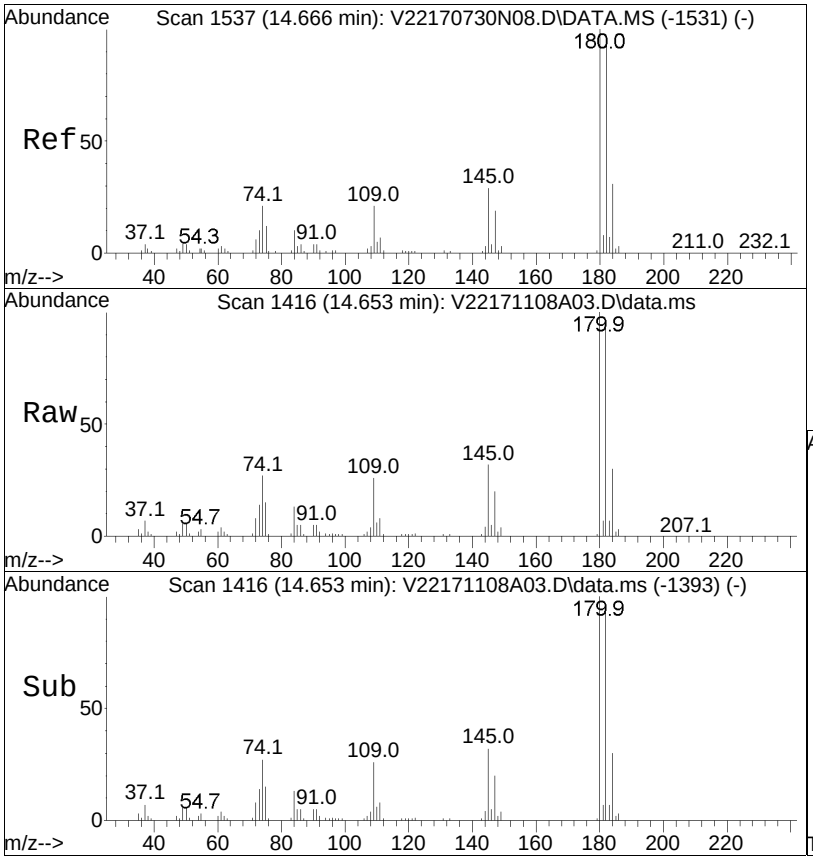




#114
Naphthalene
Concen: 8.21 ug/L
RT: 14.490 min Scan# 1397
Delta R.T. -0.006 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:128 Resp: 150547

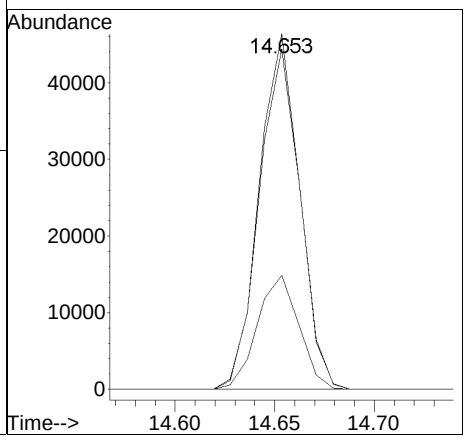




#115
1,2,3-Trichlorobenzene
Concen: 6.99 ug/L
RT: 14.653 min Scan# 1416
Delta R.T. -0.006 min
Lab File: V22171108A03.D
Acq: 08 Nov 2017 08:35 am

Tgt Ion:180 Resp: 65332

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.0	114.0
145	33.1	23.8	35.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22171108A03.D	Operator	: VOA122:PD
Date Inj'd	: 11/8/2017 8:35 am	Instrument	: VOA122
Sample	: WG1060967-4,31,10,10	Quant Date	: 11/8/2017 9:05 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A02.D
Acq On : 8 Nov 2017 8:38 am
Operator : VOA101:PD
Sample : WG1060957-4,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 09:09:16 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	329084	10.000	ug/L	0.00
Standard Area 1 = 327258			Recovery = 100.56%			
59) Chlorobenzene-d5	9.675	117	245066	10.000	ug/L	0.00
Standard Area 1 = 249731			Recovery = 98.13%			
79) 1,4-Dichlorobenzene-d4	12.594	152	112484	10.000	ug/L	0.00
Standard Area 1 = 115791			Recovery = 97.14%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.026	113	77794	10.103	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.03%			
43) 1,2-Dichloroethane-d4	5.577	65	85521	11.277	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.77%			
60) Toluene-d8	7.678	98	332446	9.756	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.56%			
83) 4-Bromofluorobenzene	11.274	95	121074	9.599	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.99%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.507	85	60401	8.855	ug/L	98
3) Chloromethane	1.676	50	97146M1	8.149	ug/L	
4) Vinyl chloride	1.752	62	81147	8.337	ug/L	96
5) Bromomethane	2.036	94	18080	5.737	ug/L	100
6) Chloroethane	2.145	64	36073	9.555	ug/L	94
7) Trichlorofluoromethane	2.276	101	96250	9.502	ug/L	100
8) Ethyl ether	2.560	74	18807	8.232	ug/L #	53
10) 1,1-Dichloroethene	2.745	96	50333	8.716	ug/L #	67
11) Carbon disulfide	2.778	76	140868	7.845	ug/L	99
15) Methylene chloride	3.291	84	53966	8.726	ug/L #	63
17) Acetone	3.340	43	8255	8.419	ug/L	95
18) trans-1,2-Dichloroethene	3.444	96	57779	8.663	ug/L #	71
20) Methyl tert-butyl ether	3.536	73	91645	8.527	ug/L #	85
23) 1,1-Dichloroethane	4.033	63	135713	9.322	ug/L	95
25) Acrylonitrile	4.098	53	10388	9.040	ug/L	95
27) Vinyl acetate	4.284	43	83218	7.401	ug/L #	92
28) cis-1,2-Dichloroethene	4.568	96	65215	9.244	ug/L #	80
29) 2,2-Dichloropropane	4.666	77	93271	9.125	ug/L	90
30) Bromochloromethane	4.764	128	22117	9.328	ug/L #	68
32) Chloroform	4.840	83	103938	9.318	ug/L	96

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A02.D
Acq On : 8 Nov 2017 8:38 am
Operator : VOA101:PD
Sample : WG1060957-4,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 09:09:16 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	4.971	117	86757	9.385	ug/L		98
37) 1,1,1-Trichloroethane	5.042	97	101272	9.590	ug/L		93
39) 2-Butanone	5.157	43	10119M1	8.195	ug/L		
40) 1,1-Dichloropropene	5.173	75	92520	9.259	ug/L		100
41) Benzene	5.430	78	253162	9.044	ug/L	#	89
44) 1,2-Dichloroethane	5.648	62	70185	10.035	ug/L		95
48) Trichloroethene	6.063	95	67309	9.556	ug/L		96
50) Dibromomethane	6.537	93	23428	9.265	ug/L		98
51) 1,2-Dichloropropane	6.636	63	73103	9.489	ug/L		94
54) Bromodichloromethane	6.717	83	74188	9.462	ug/L		100
57) 1,4-Dioxane	6.936	88	10439	409.631	ug/L	#	69
58) cis-1,3-Dichloropropene	7.460	75	85250	8.933	ug/L		91
61) Toluene	7.738	92	163493	8.902	ug/L		96
62) 4-Methyl-2-pentanone	8.218	58	10439	8.799	ug/L	#	95
63) Tetrachloroethene	8.223	166	63943	9.046	ug/L		98
65) trans-1,3-Dichloropropene	8.273	75	63096	8.350	ug/L		92
68) 1,1,2-Trichloroethane	8.469	83	28776	8.837	ug/L		97
69) Chlorodibromomethane	8.693	129	39326	8.614	ug/L		96
70) 1,3-Dichloropropane	8.813	76	64771	9.046	ug/L		98
71) 1,2-Dibromoethane	8.993	107	30569	8.678	ug/L		98
72) 2-Hexanone	9.320	43	17833M1	9.193	ug/L		
73) Chlorobenzene	9.697	112	176734	9.215	ug/L		99
74) Ethylbenzene	9.729	91	325643	9.365	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.784	131	54009	8.883	ug/L		98
76) p/m Xylene	9.937	106	256867	19.277	ug/L		87
77) o Xylene	10.510	106	237250	19.684	ug/L		88
78) Styrene	10.586	104	358944	19.167	ug/L		97
80) Bromoform	10.613	173	17085	8.505	ug/L		99
82) Isopropylbenzene	10.919	105	335135	9.336	ug/L		99
84) Bromobenzene	11.394	156	56643	8.887	ug/L		98
85) n-Propylbenzene	11.437	91	392279	9.478	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.535	83	32070	8.648	ug/L		98
88) 4-Ethyltoluene	11.574	105	314447	9.478	ug/L		99
89) 2-Chlorotoluene	11.623	91	222574M1	9.345	ug/L		
90) 1,3,5-Trimethylbenzene	11.677	105	259743	9.204	ug/L		99
91) 1,2,3-Trichloropropane	11.688	75	28540M1	9.159	ug/L		
92) trans-1,4-Dichloro-2-b...	11.754	53	9781	8.643	ug/L	#	60
93) 4-Chlorotoluene	11.825	91	224357	9.317	ug/L		94
94) tert-Butylbenzene	12.048	119	216777	9.169	ug/L		94

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A02.D
Acq On : 8 Nov 2017 8:38 am
Operator : VOA101:PD
Sample : WG1060957-4,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 09:09:16 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2017\171108A\V01171108A01.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.136	105	256495	9.271	ug/L	99
98)	sec-Butylbenzene	12.256	105	317169	9.507	ug/L	99
99)	p-Isopropyltoluene	12.425	119	259253	9.406	ug/L	96
100)	1,3-Dichlorobenzene	12.512	146	120638	9.296	ug/L	99
101)	1,4-Dichlorobenzene	12.610	146	119957	9.295	ug/L	99
102)	p-Diethylbenzene	12.834	119	144553	9.525	ug/L	98
103)	n-Butylbenzene	12.900	91	224492	9.563	ug/L	97
104)	1,2-Dichlorobenzene	13.085	146	99663	9.218	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.718	119	198614	9.396	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.953	155	3174	7.783	ug/L	95
108)	Hexachlorobutadiene	14.613	225	21312	9.462	ug/L	98
109)	1,2,4-Trichlorobenzene	14.651	180	46187	9.143	ug/L	98
110)	Naphthalene	14.984	128	77066	8.968	ug/L	100
111)	1,2,3-Trichlorobenzene	15.175	180	31632	9.225	ug/L	97

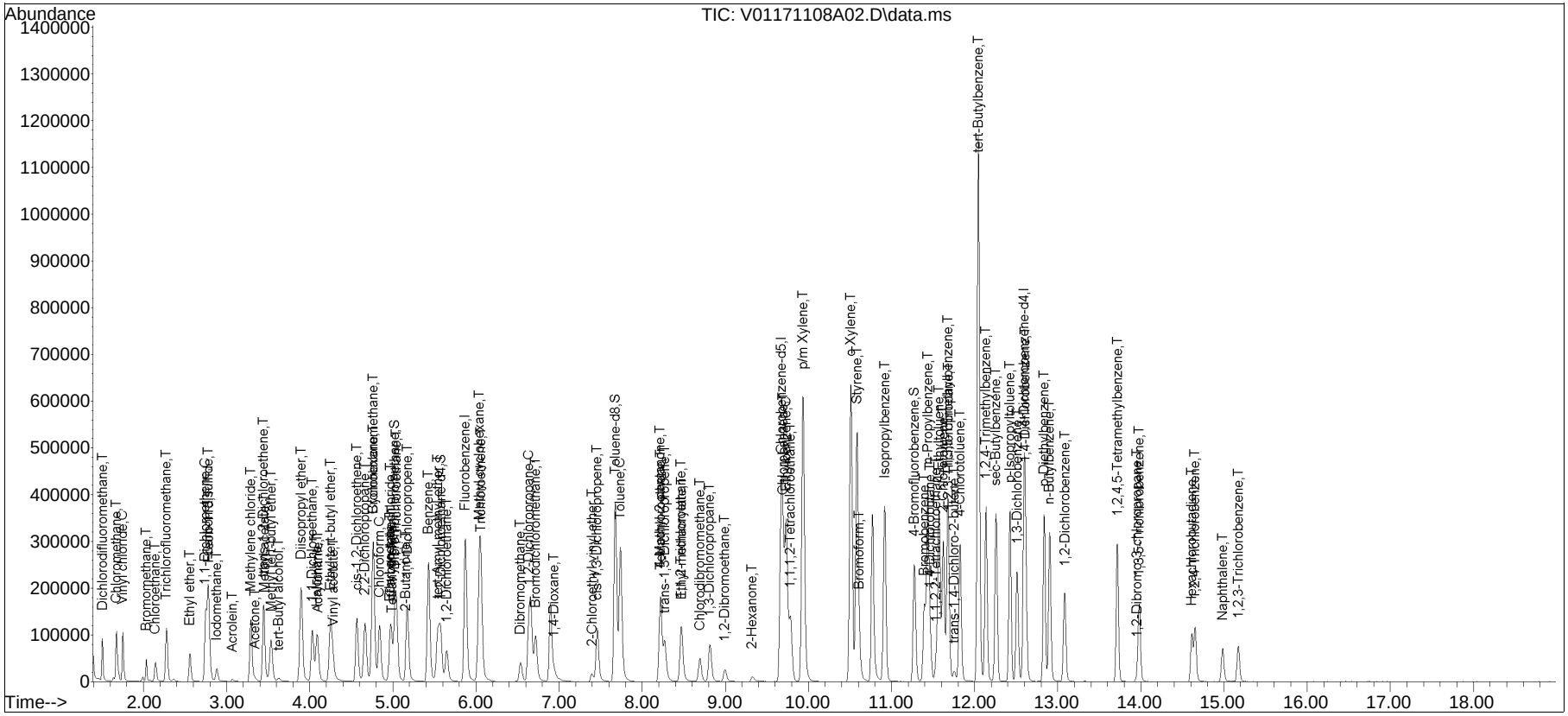
(#) = qualifier out of range (m) = manual integration (+) = signals summed

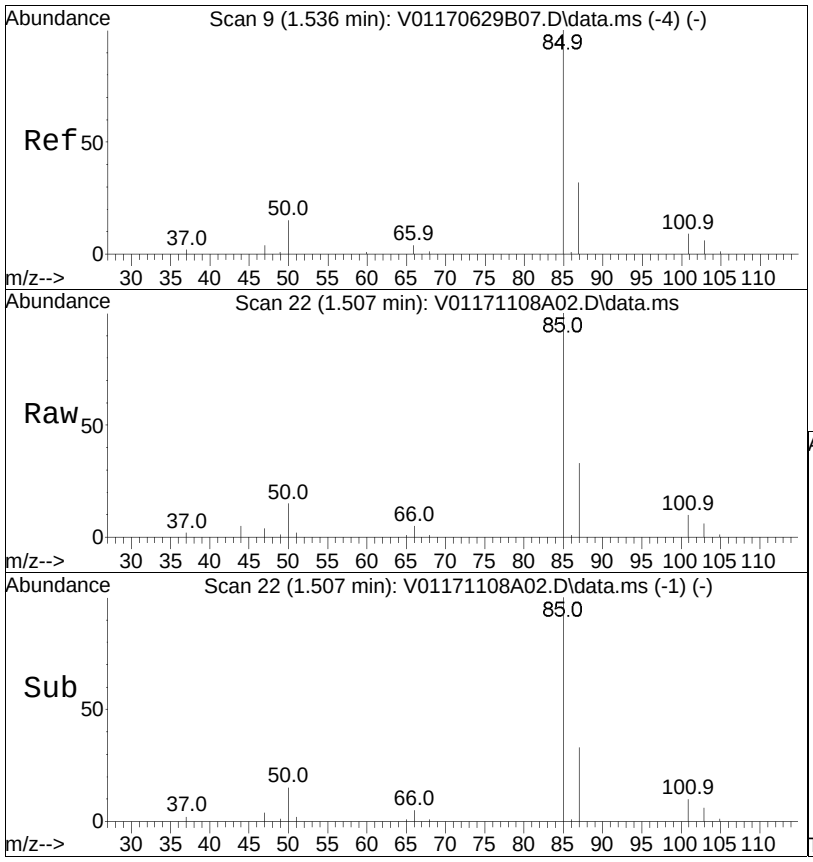
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2017\171108A\
Data File : V01171108A02.D
Acq On : 8 Nov 2017 8:38 am
Operator : VOA101:PD
Sample : WG1060957-4,31,10,10
Misc : WG1060957,ICAL14055
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 09:09:16 2017
Quant Method : I:\VOLATILES\VOA101\2017\171108A\V101_170928_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Sep 30 14:27:05 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox71108A\V01171108A01.D•

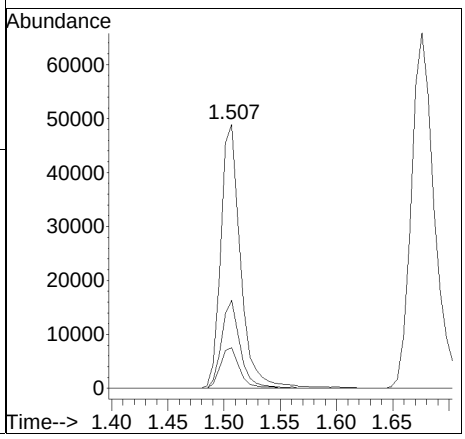


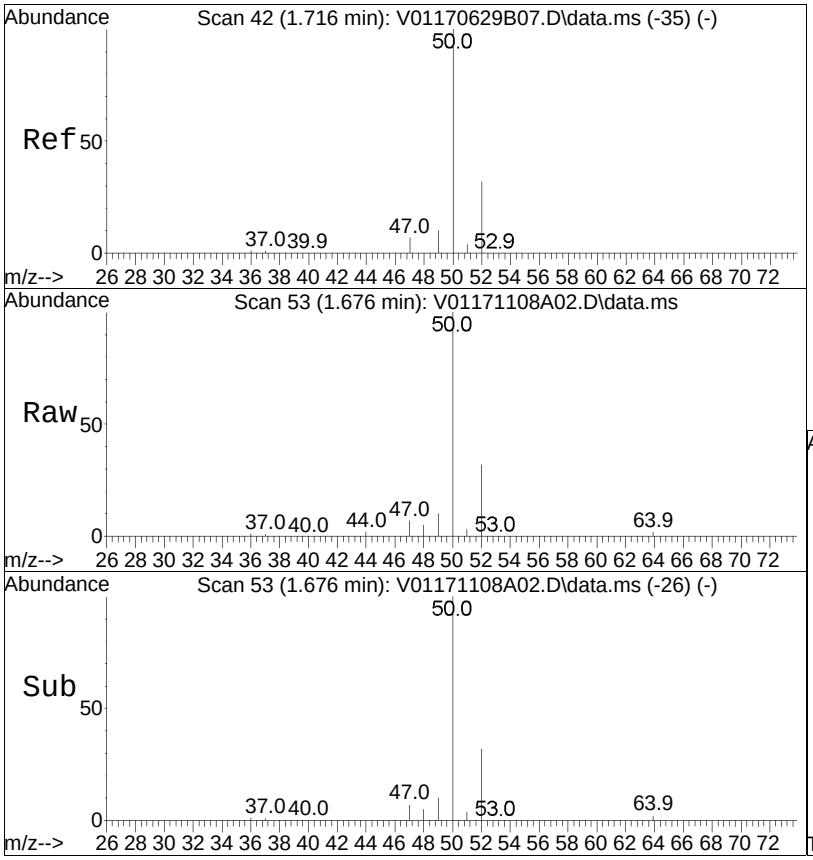


#2
Dichlorodifluoromethane
Concen: 8.85 ug/L
RT: 1.507 min Scan# 22
Delta R.T. 0.004 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 85 Resp: 60401

Ion	Ratio	Lower	Upper
85	100		
87	31.3	20.7	43.1
50	15.0	8.3	17.1

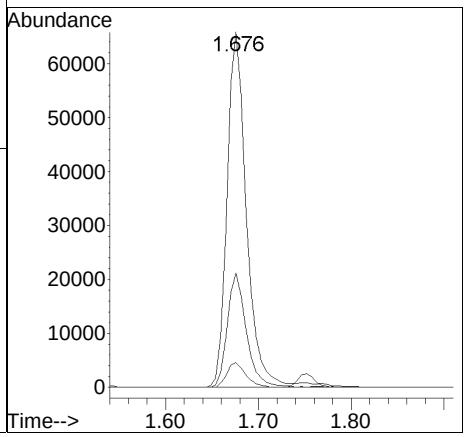


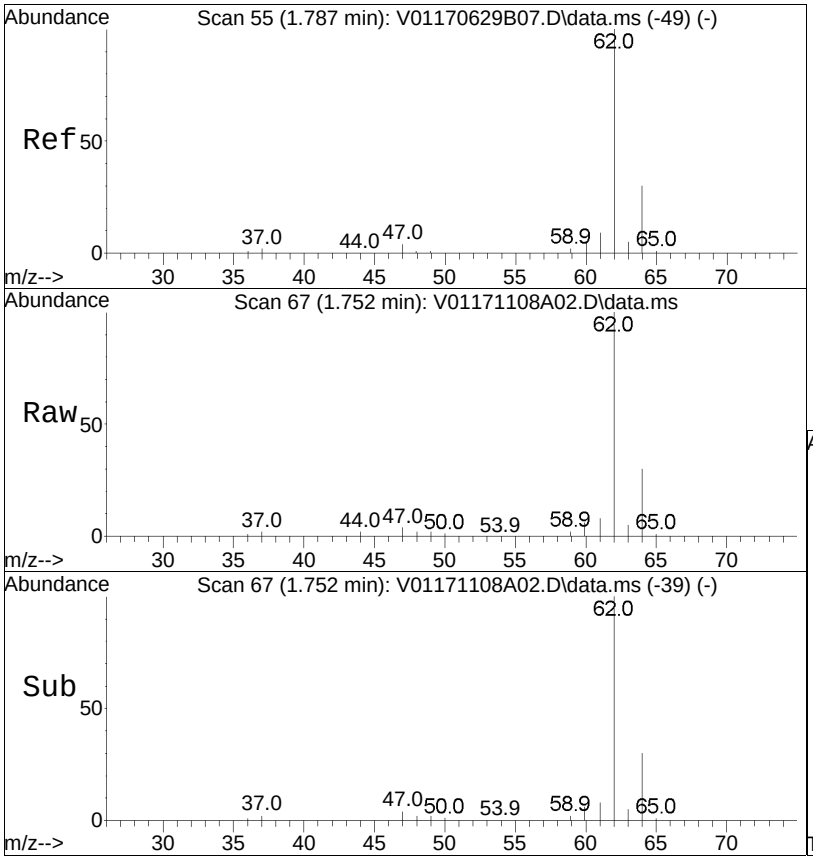


#3
Chloromethane
Concen: 8.15 ug/L M1
RT: 1.676 min Scan# 53
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 50 Resp: 97146

Ion	Ratio	Lower	Upper
50	100		
52	31.1	13.3	53.3
47	6.8	0.0	28.0

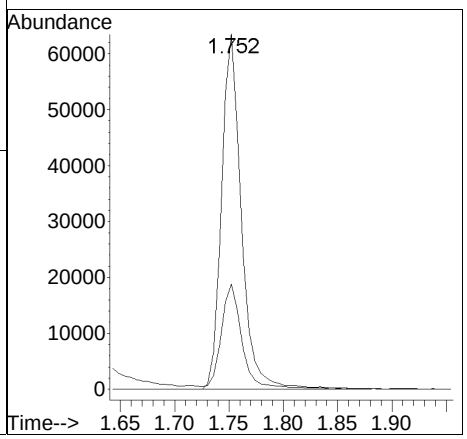


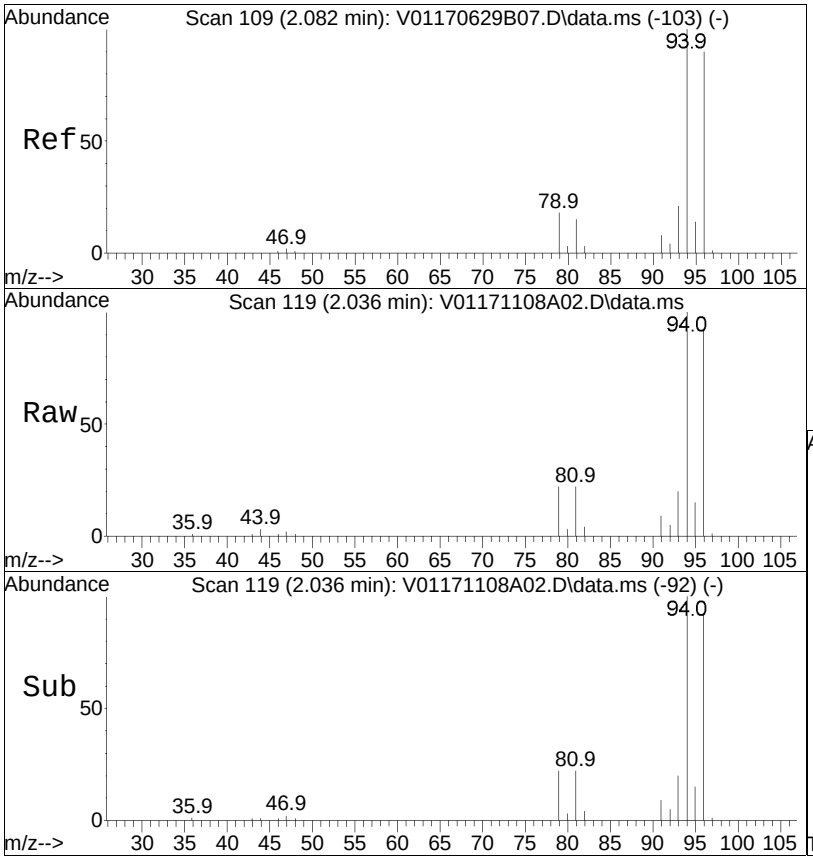


#4
Vinyl chloride
Concen: 8.34 ug/L
RT: 1.752 min Scan# 67
Delta R.T. 0.003 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 62 Resp: 81147

Ion	Ratio	Lower	Upper
62	100		
64	30.0	12.3	52.3

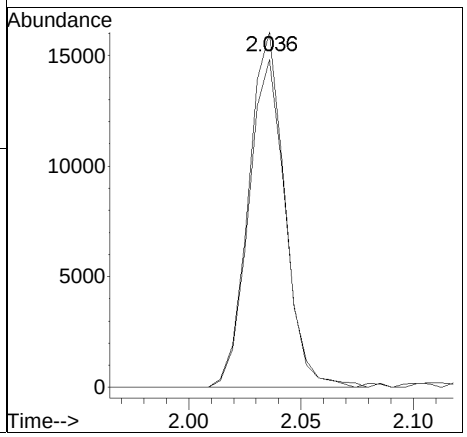


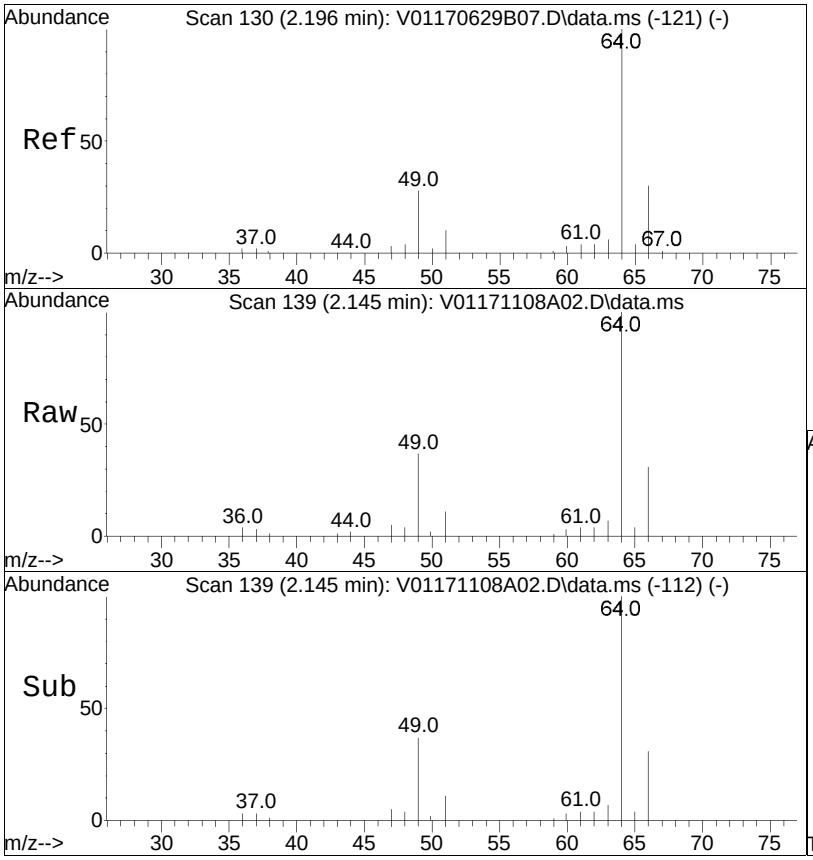


#5
Bromomethane
Concen: 5.74 ug/L
RT: 2.036 min Scan# 119
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 94 Resp: 18080

Ion	Ratio	Lower	Upper
94	100		
96	93.1	73.0	113.0

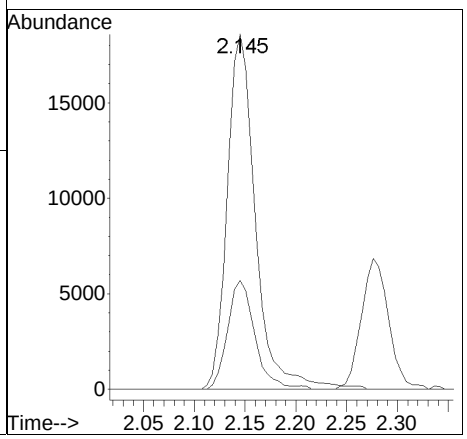


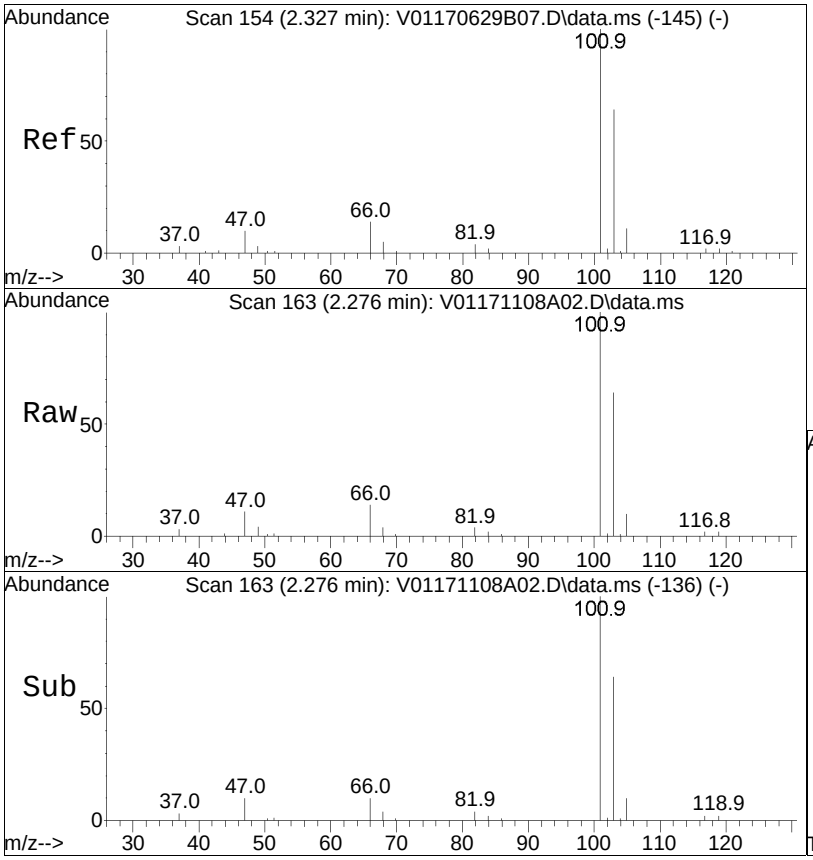


#6
Chloroethane
Concen: 9.56 ug/L
RT: 2.145 min Scan# 139
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 64 Resp: 36073

Ion	Ratio	Lower	Upper
64	100		
66	29.7	13.0	53.0

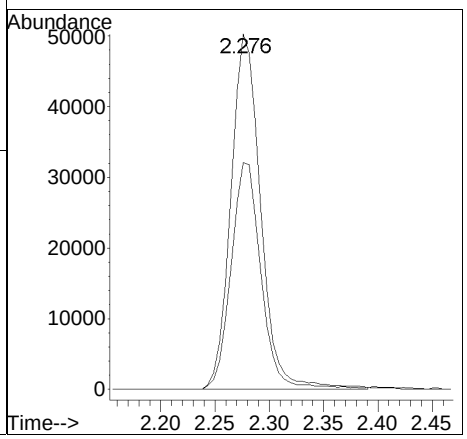


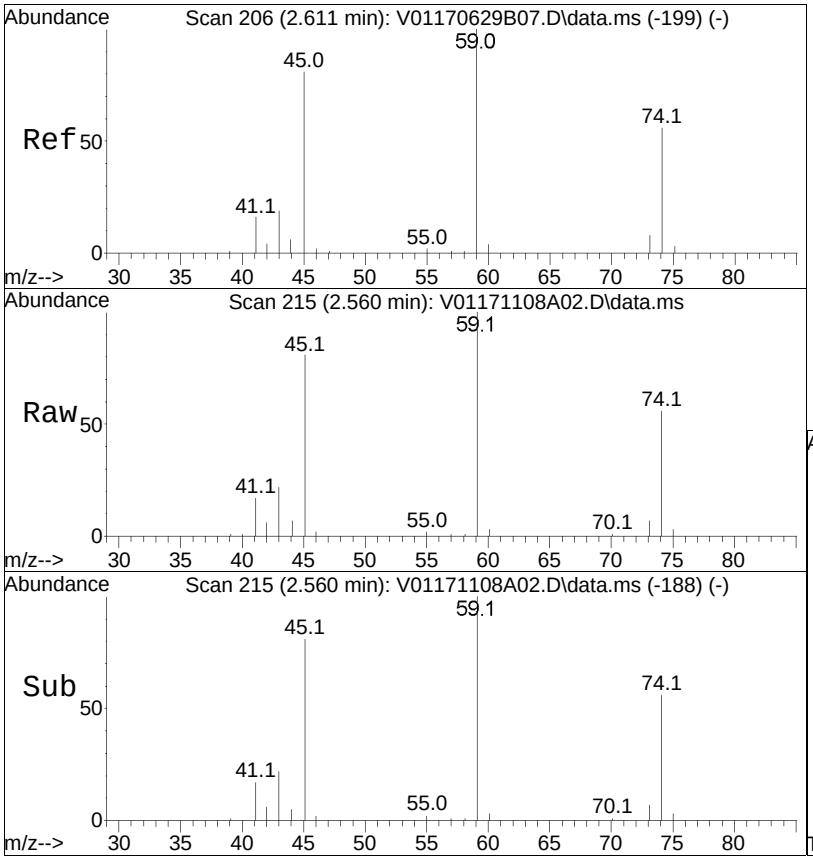


#7
Trichlorofluoromethane
Concen: 9.50 ug/L
RT: 2.276 min Scan# 163
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:101 Resp: 96250

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.8	77.6

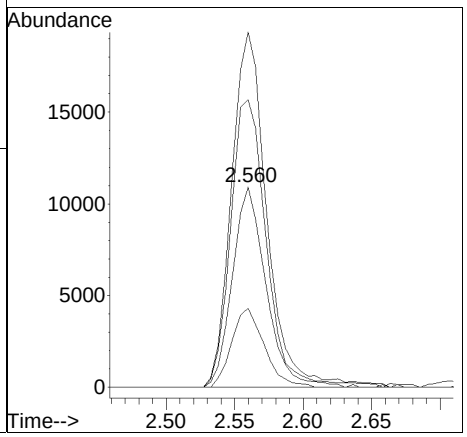


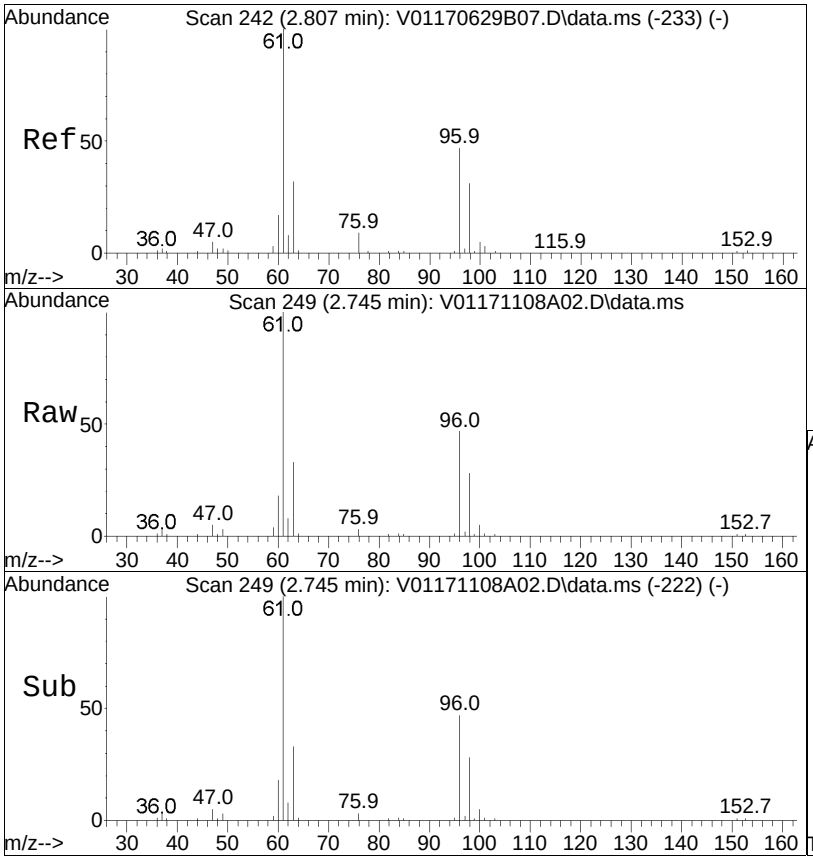


#8
Ethyl ether
Concen: 8.23 ug/L
RT: 2.560 min Scan# 215
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 74 Resp: 18807

Ion	Ratio	Lower	Upper
74	100		
59	186.3	84.2	175.0#
45	152.5	63.8	132.6#
43	38.2	19.5	40.5

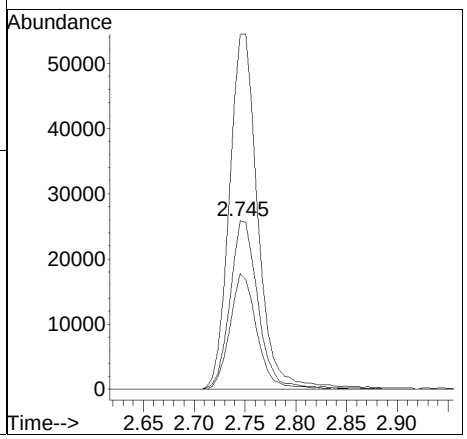


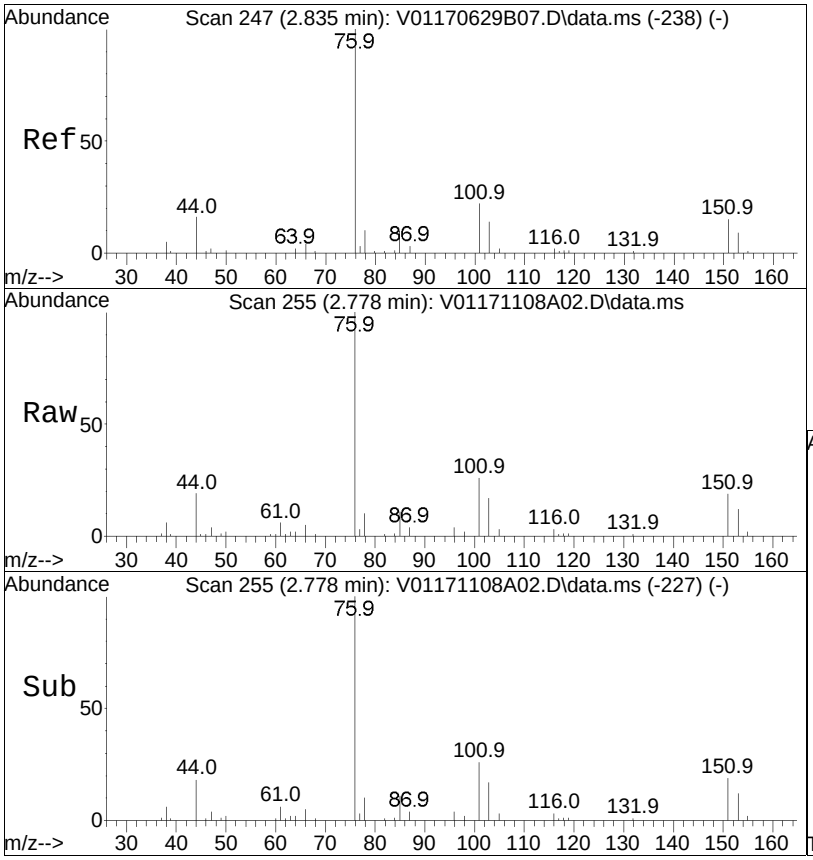


#10
1,1-Dichloroethene
Concen: 8.72 ug/L
RT: 2.745 min Scan# 249
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 96 Resp: 50333

Ion	Ratio	Lower	Upper
96	100		
61	212.2	129.4	194.2#
63	65.6	41.4	62.2#

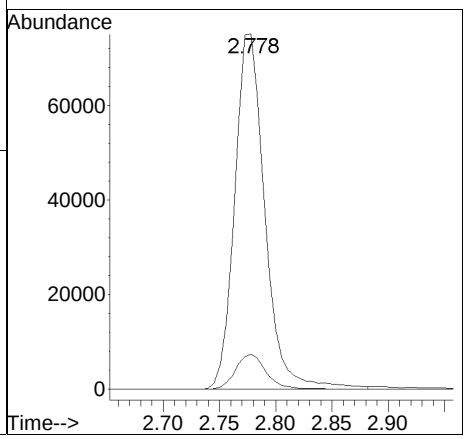


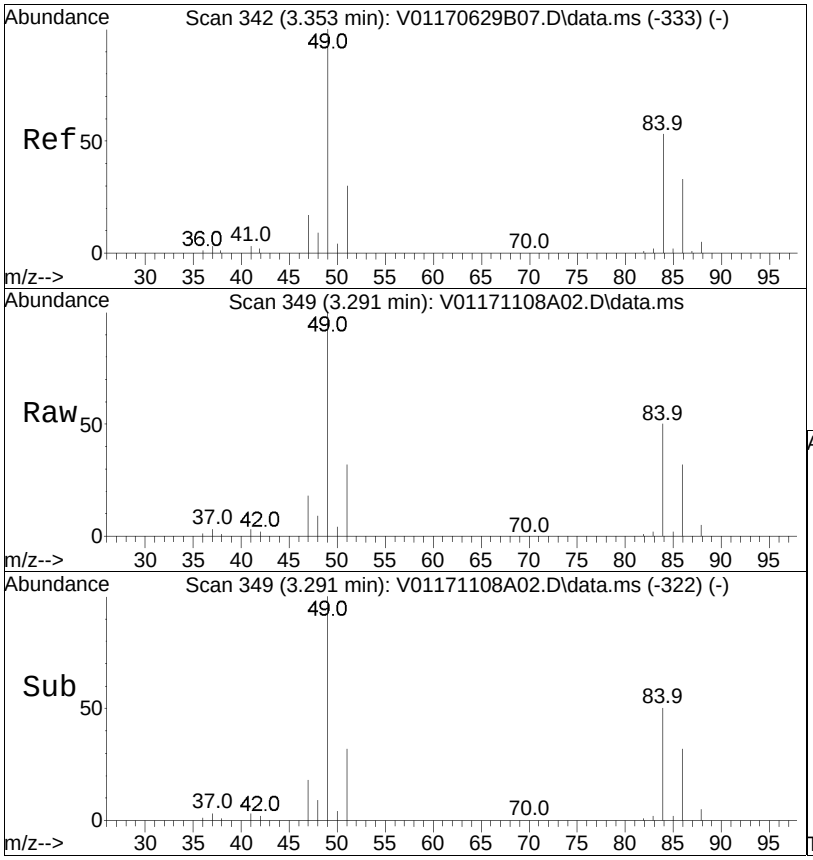


#11
Carbon disulfide
Concen: 7.84 ug/L
RT: 2.778 min Scan# 255
Delta R.T. 0.004 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 76 Resp: 140868

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.3	13.1

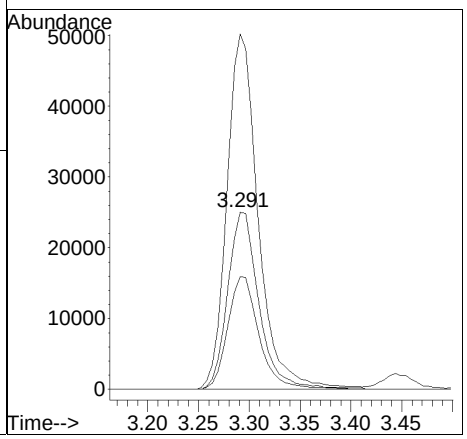


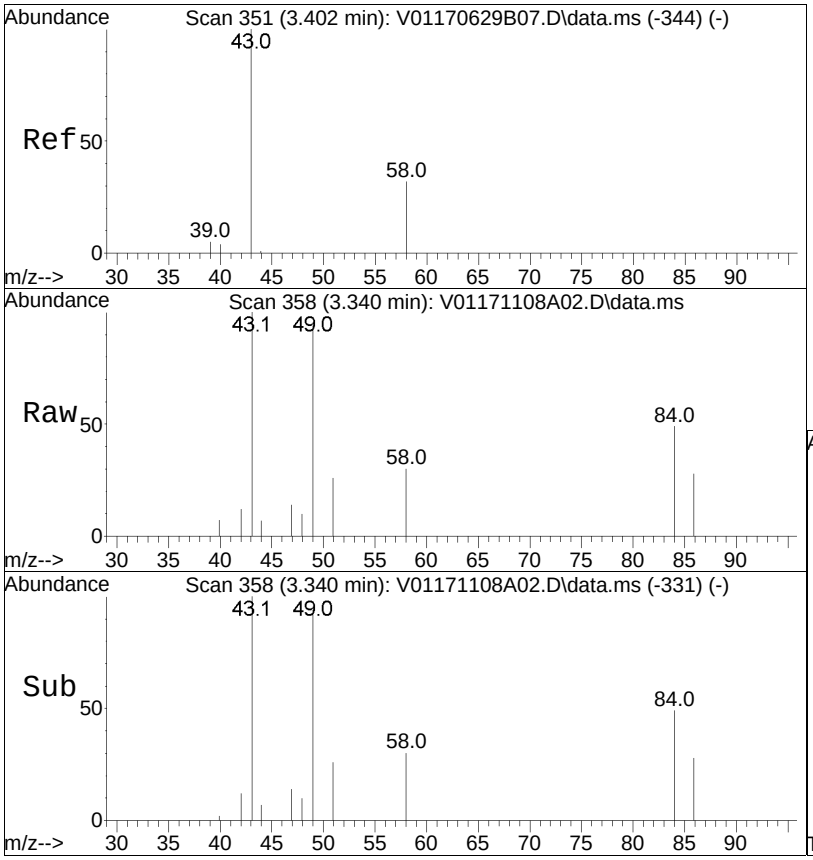


#15
Methylene chloride
Concen: 8.73 ug/L
RT: 3.291 min Scan# 349
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 84 Resp: 53966

Ion	Ratio	Lower	Upper
84	100		
86	63.6	41.0	85.2
49	200.2	88.5	183.9#

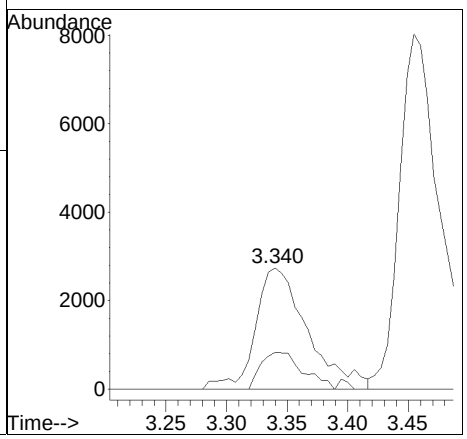


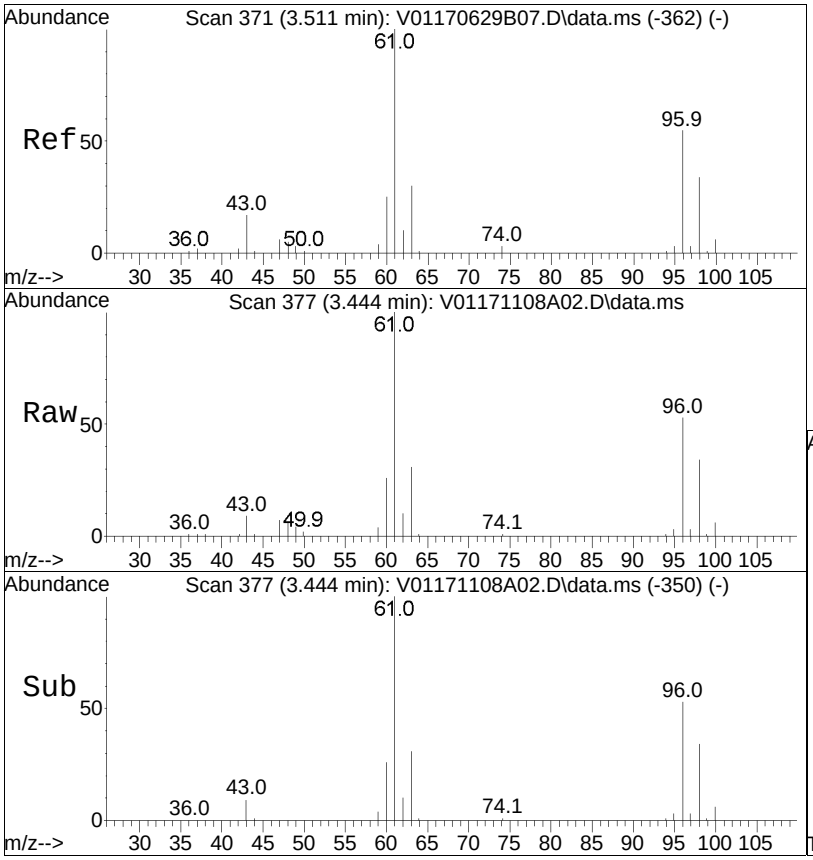


#17
Acetone
Concen: 8.42 ug/L
RT: 3.340 min Scan# 358
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 43 Resp: 8255

Ion	Ratio	Lower	Upper
43	100		
58	24.7	21.8	32.6

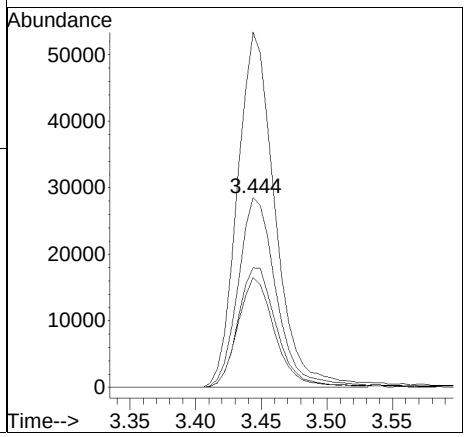


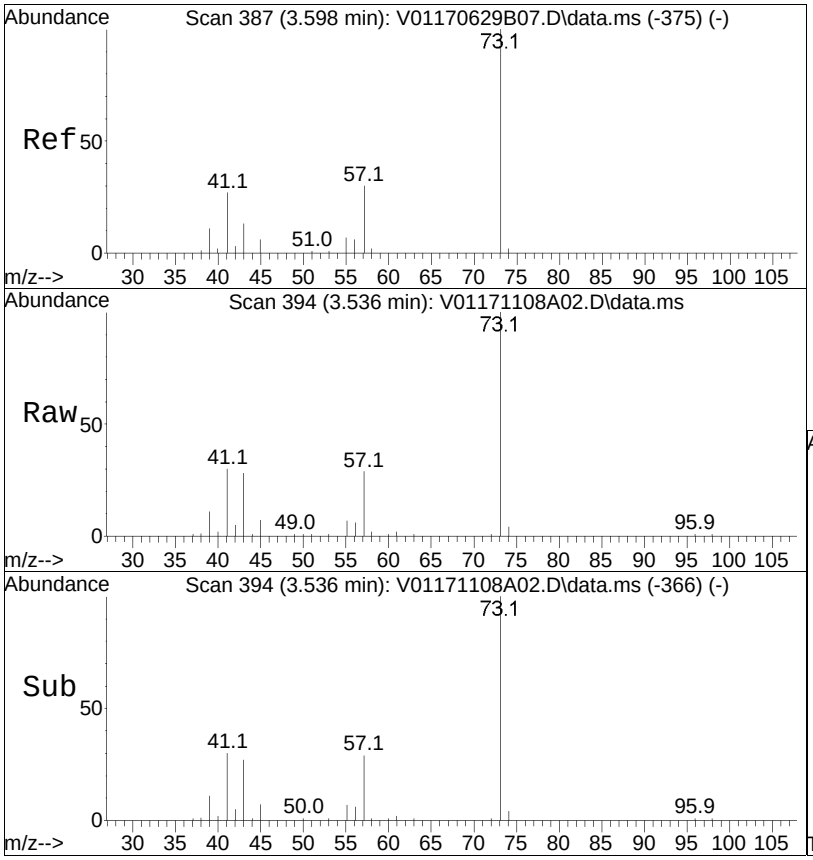


#18
trans-1,2-Dichloroethene
Concen: 8.66 ug/L
RT: 3.444 min Scan# 377
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 96 Resp: 57779

Ion	Ratio	Lower	Upper
96	100		
61	187.3	88.2	183.2#
98	64.6	40.8	84.6
63	57.0	28.4	59.0

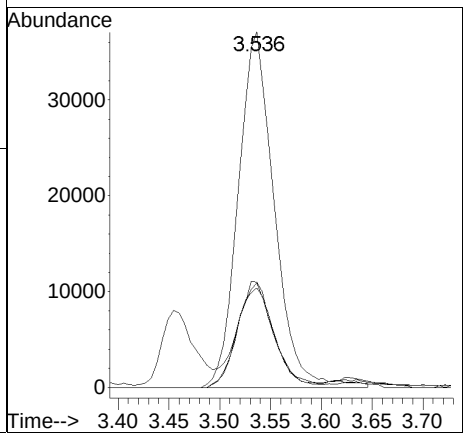


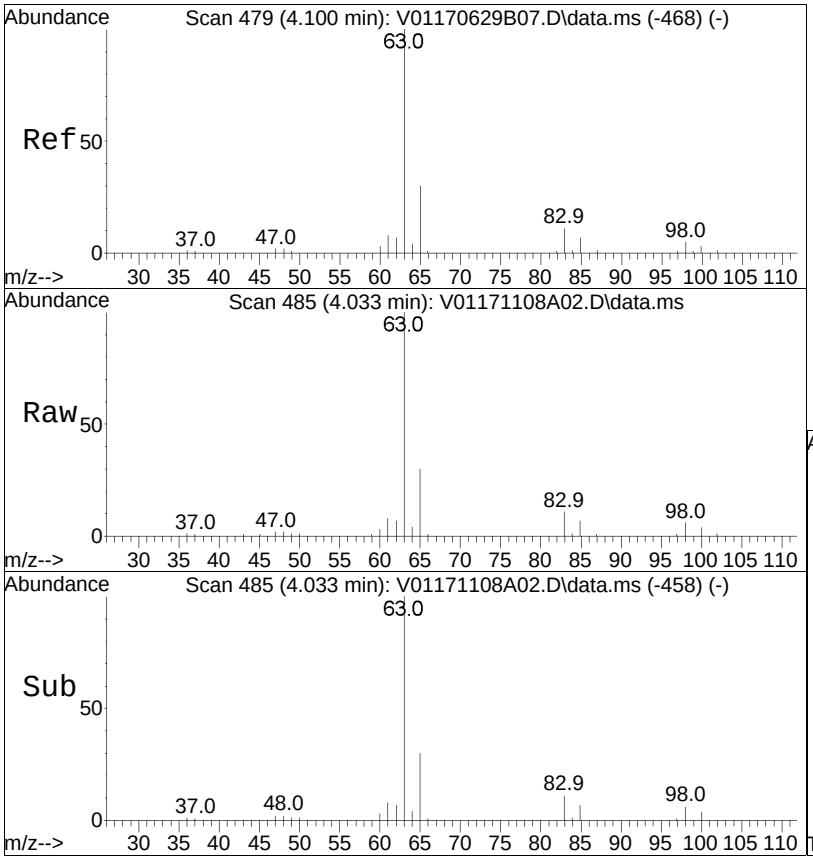


#20
Methyl tert-butyl ether
Concen: 8.53 ug/L
RT: 3.536 min Scan# 394
Delta R.T. 0.003 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 73 Resp: 91645

Ion	Ratio	Lower	Upper
73	100		
57	29.4	13.8	28.8#
43	28.0	14.8	30.8
41	29.9	13.8	28.6#

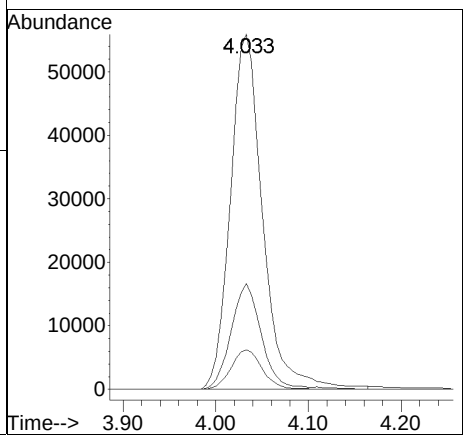


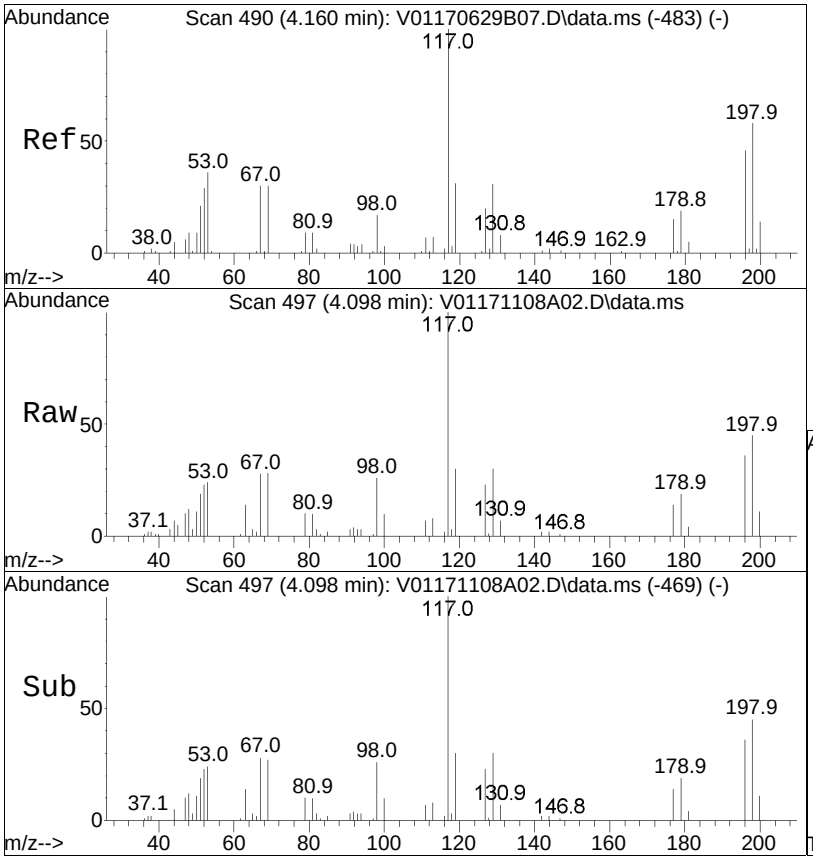


#23
1,1-Dichloroethane
Concen: 9.32 ug/L
RT: 4.033 min Scan# 485
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 63 Resp: 135713

Ion	Ratio	Lower	Upper
63	100		
65	28.3	10.5	50.5
83	10.8	0.0	33.2

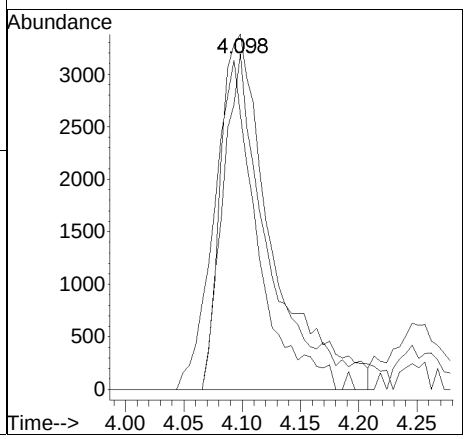


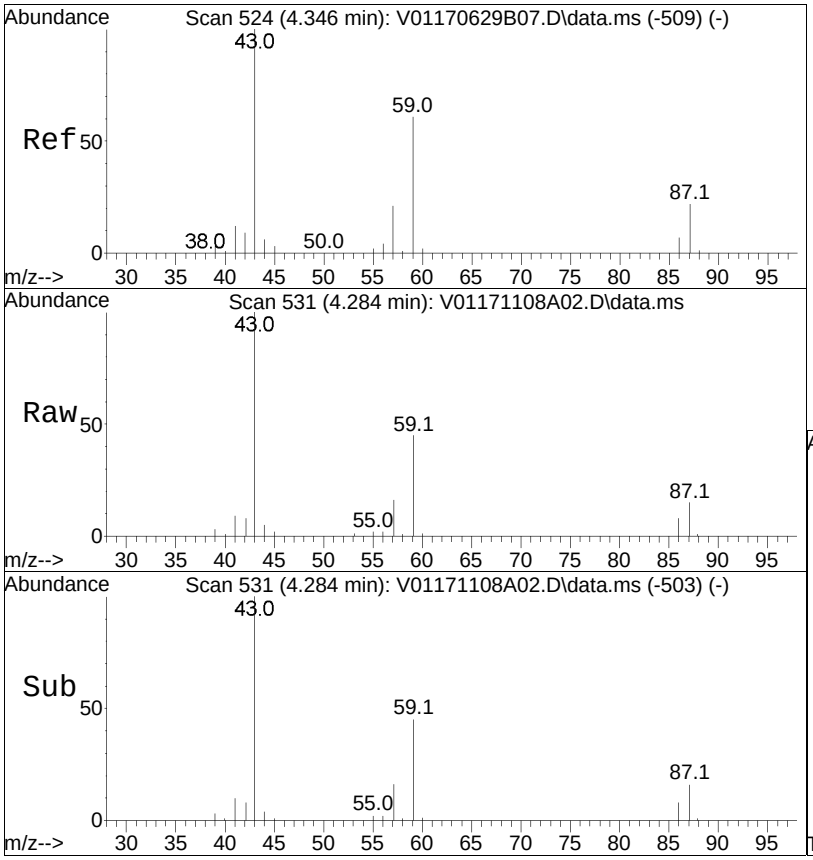


#25
Acrylonitrile
Concen: 9.04 ug/L
RT: 4.098 min Scan# 497
Delta R.T. 0.003 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 53 Resp: 10388

Ion	Ratio	Lower	Upper
53	100		
52	82.1	63.4	95.0
51	79.1	58.7	88.1

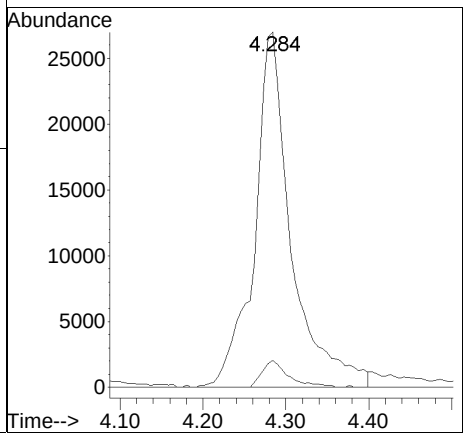


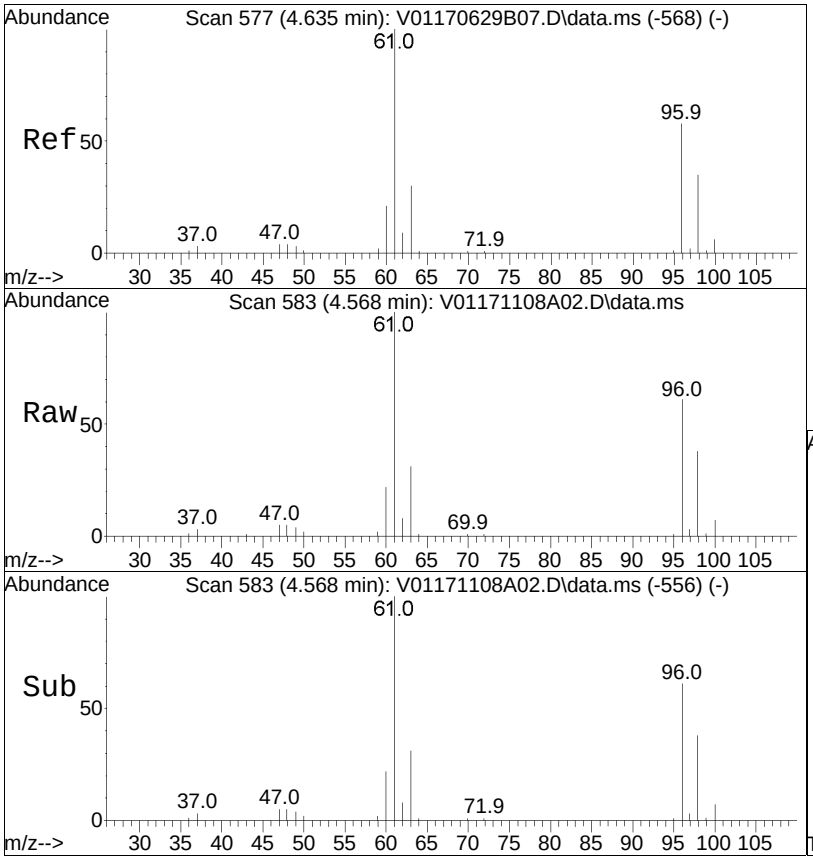


#27
Vinyl acetate
Concen: 7.40 ug/L
RT: 4.284 min Scan# 531
Delta R.T. 0.004 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 43 Resp: 83218

Ion	Ratio	Lower	Upper
43	100		
86	5.5	6.6	9.8#

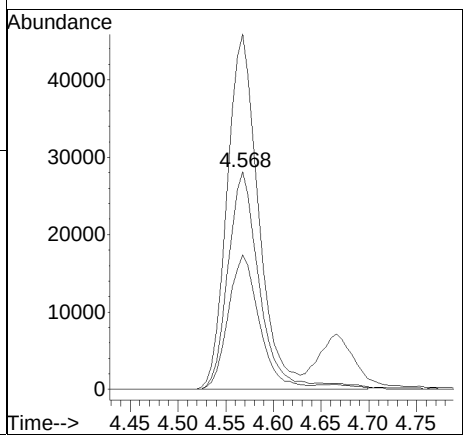


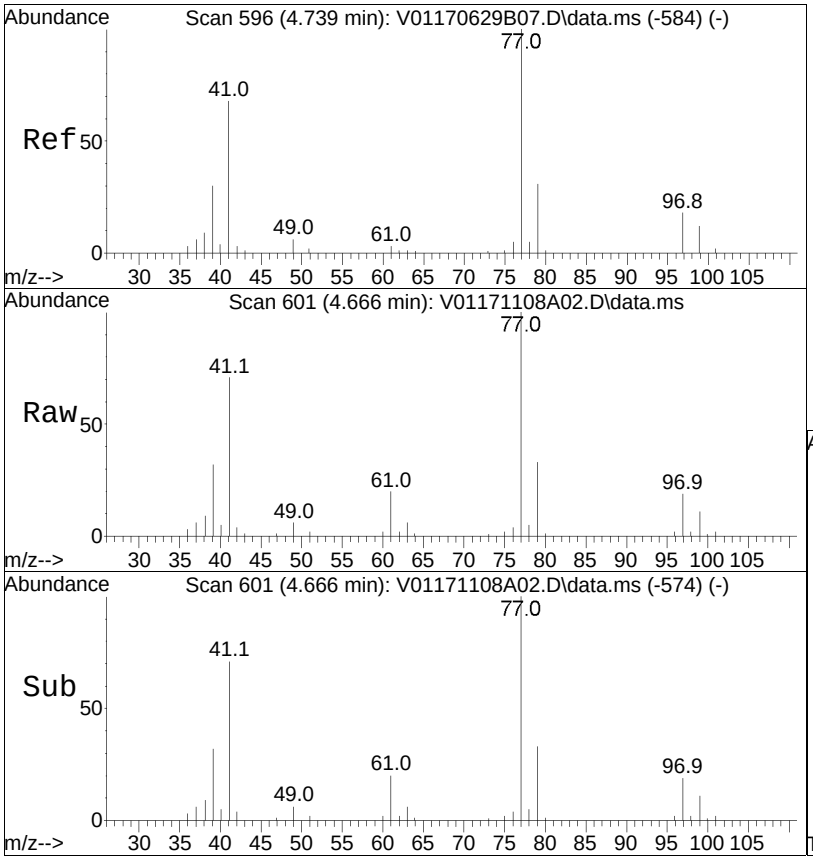


#28
cis-1,2-Dichloroethene
Concen: 9.24 ug/L
RT: 4.568 min Scan# 583
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 96 Resp: 65215

Ion	Ratio	Lower	Upper
96	100		
61	160.2	101.4	152.0#
98	60.8	50.2	75.4

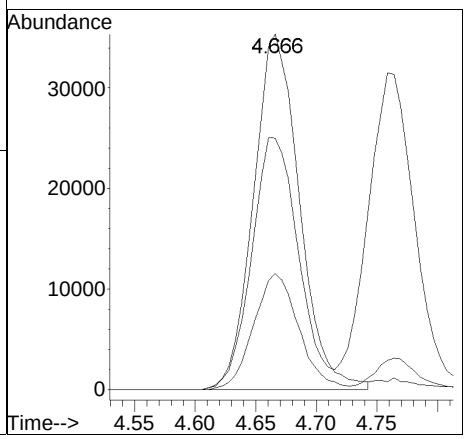


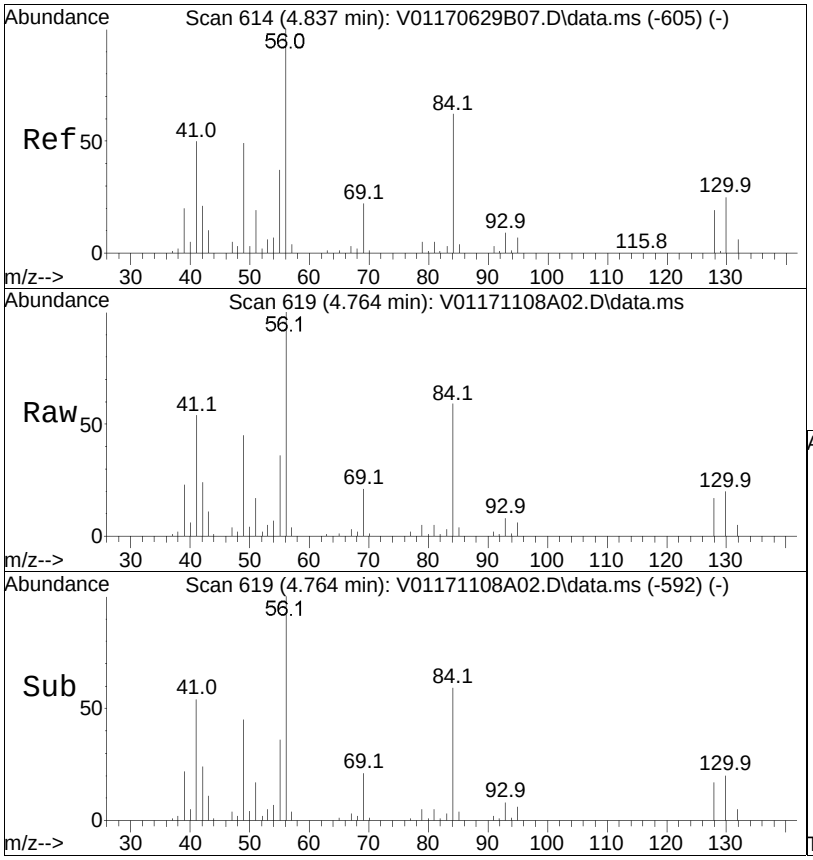


#29
2,2-Dichloropropane
Concen: 9.13 ug/L
RT: 4.666 min Scan# 601
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 77 Resp: 93271

Ion	Ratio	Lower	Upper
77	100		
41	72.1	39.6	82.3
79	32.0	20.8	43.2

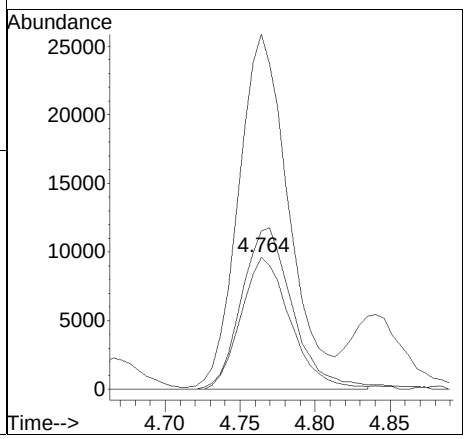


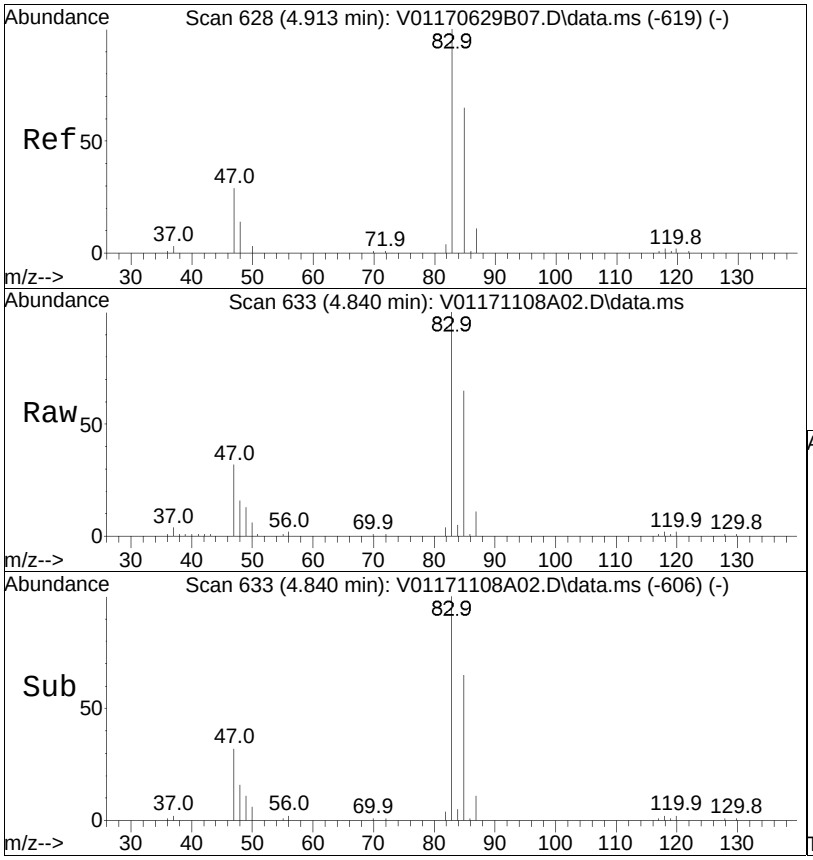


#30
Bromochloromethane
Concen: 9.33 ug/L
RT: 4.764 min Scan# 619
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:128 Resp: 22117

Ion	Ratio	Lower	Upper
128	100		
49	267.7	152.2	228.2#
130	128.9	105.8	158.6

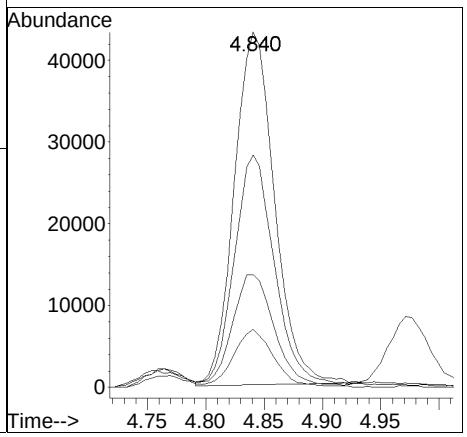


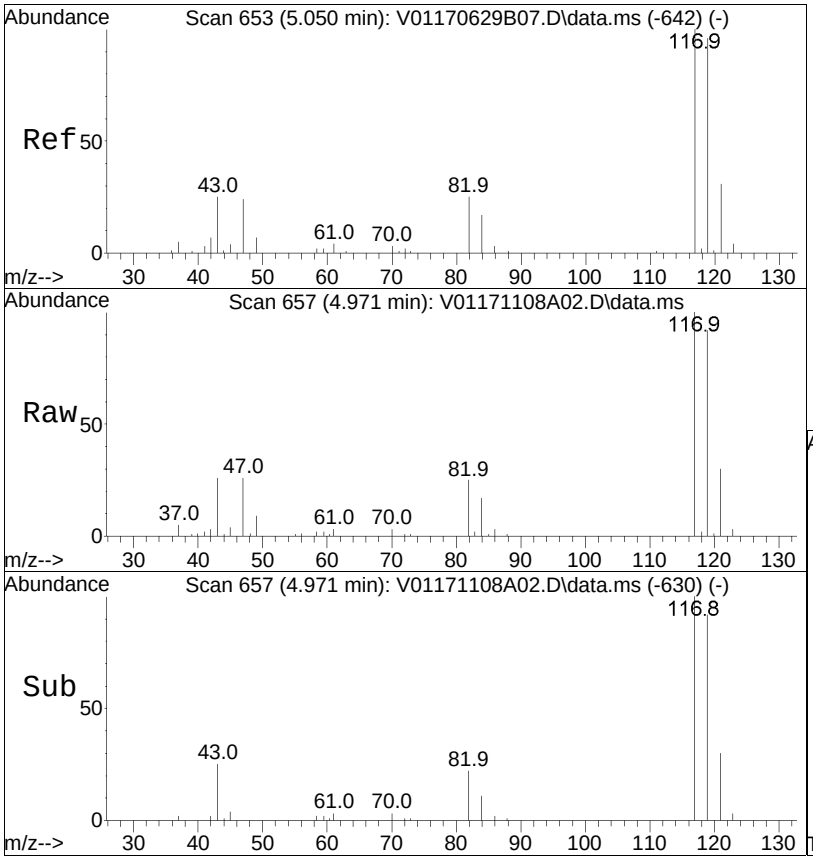


#32
Chloroform
Concen: 9.32 ug/L
RT: 4.840 min Scan# 633
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 83 Resp: 103938

Ion	Ratio	Lower	Upper
83	100		
85	65.6	42.0	87.2
47	32.6	17.6	36.6
48	16.6	9.4	19.4

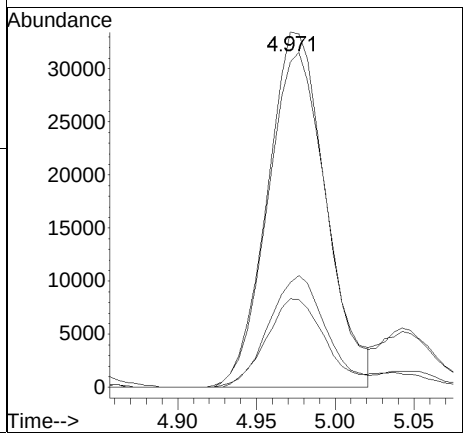


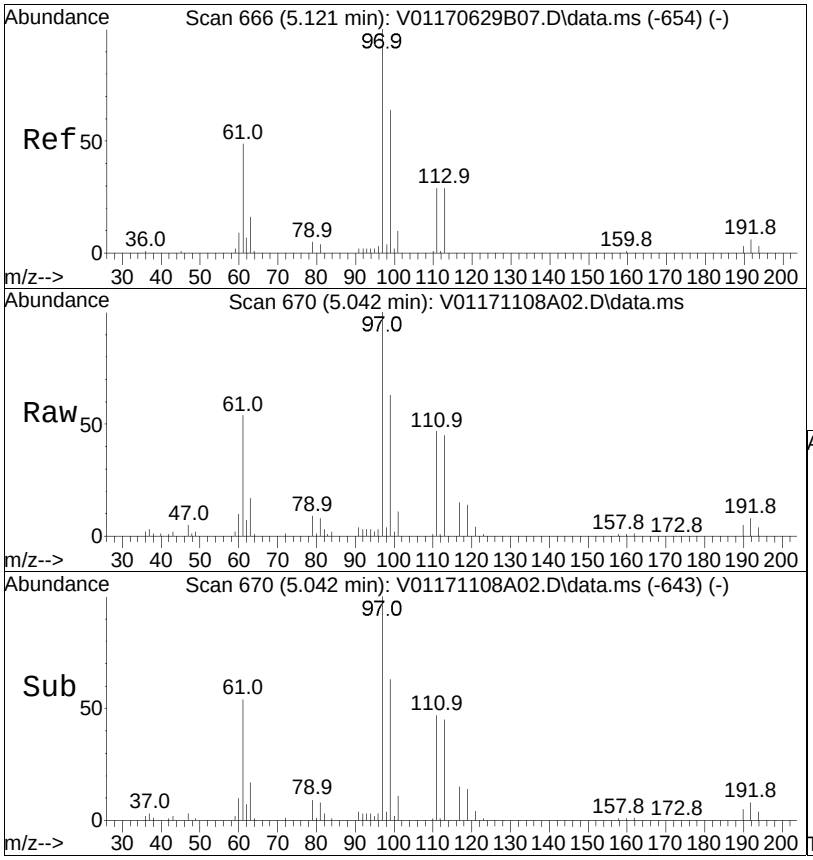


#34
Carbon tetrachloride
Concen: 9.38 ug/L
RT: 4.971 min Scan# 657
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:117 Resp: 86757

Ion	Ratio	Lower	Upper
117	100		
119	94.8	62.5	129.9
121	30.7	19.9	41.3
82	25.4	18.2	37.8

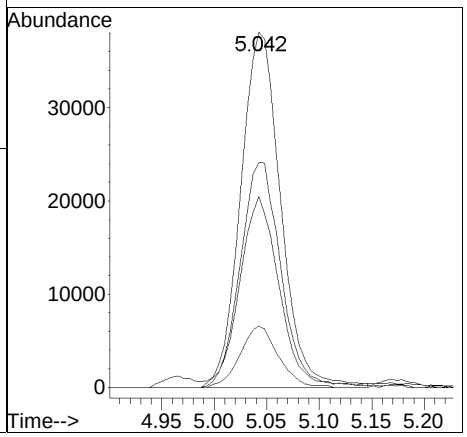


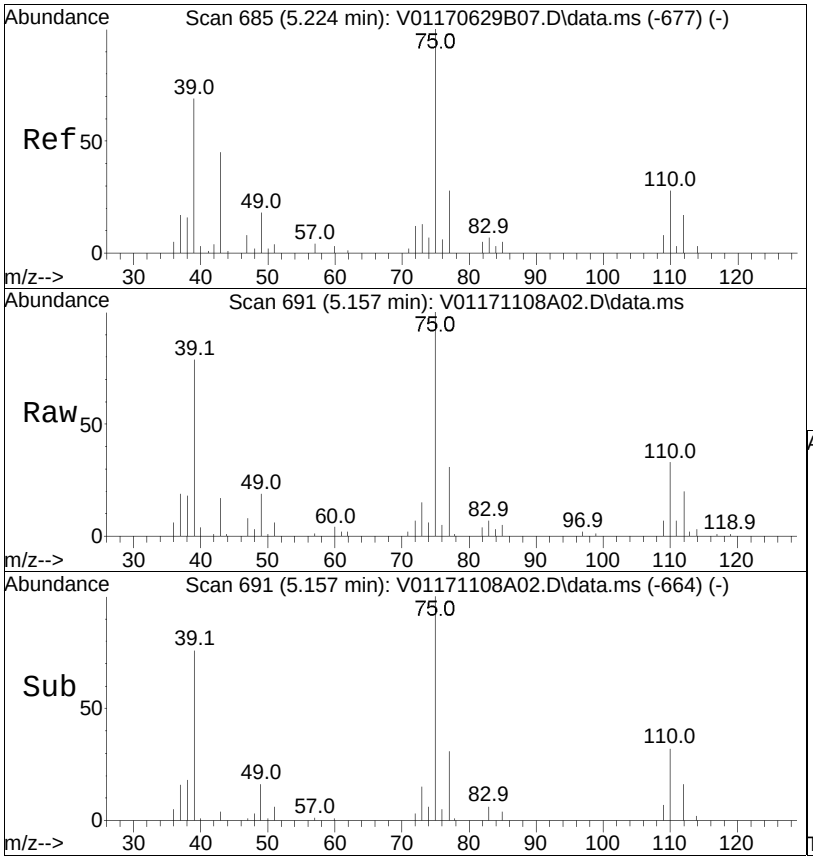


#37
1,1,1-Trichloroethane
Concen: 9.59 ug/L
RT: 5.042 min Scan# 670
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 97 Resp: 101272

Ion	Ratio	Lower	Upper
97	100		
99	64.5	40.8	84.8
61	51.7	28.0	58.2
63	16.4	9.4	19.4

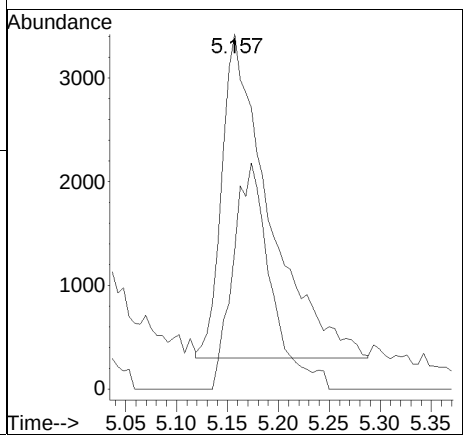


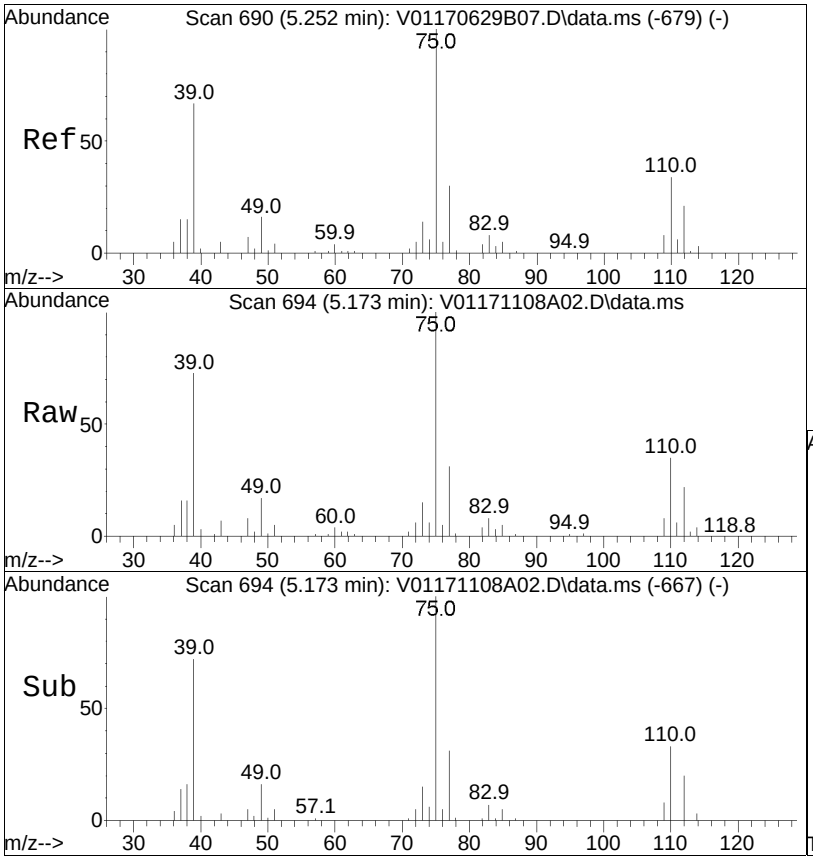


#39
2-Butanone
Concen: 8.19 ug/L M1
RT: 5.157 min Scan# 691
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 43 Resp: 10119

Ion	Ratio	Lower	Upper
43	100		
72	55.8	39.5	59.3

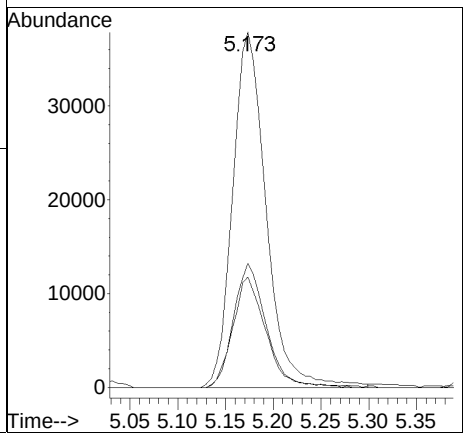


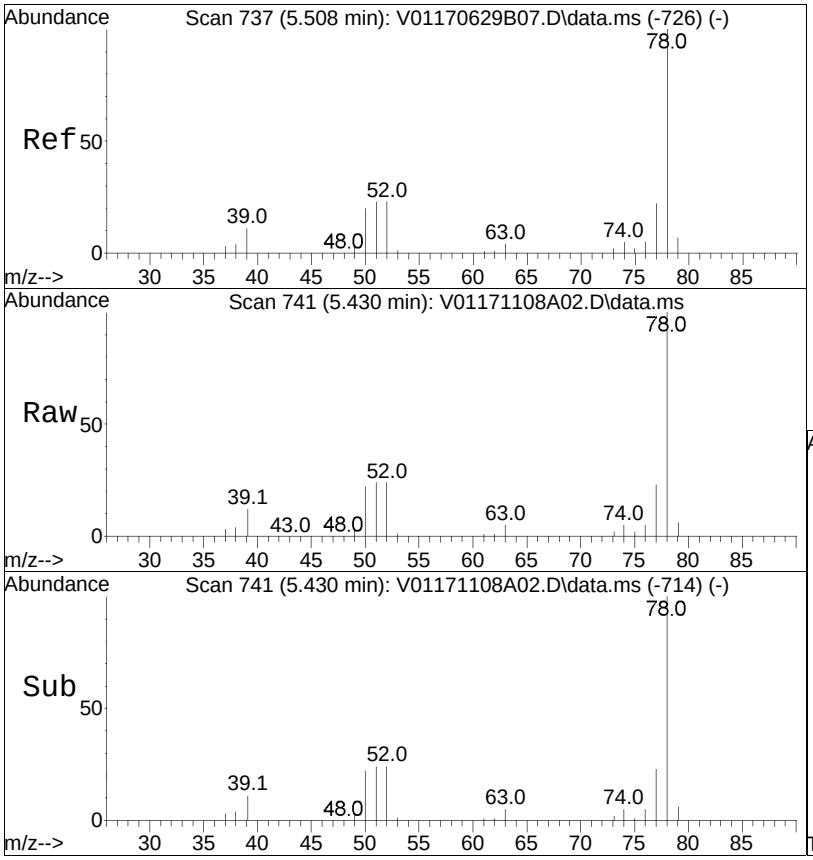


#40
1,1-Dichloropropene
Concen: 9.26 ug/L
RT: 5.173 min Scan# 694
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 75 Resp: 92520

Ion	Ratio	Lower	Upper
75	100		
110	33.8	21.8	45.4
77	30.6	20.0	41.4

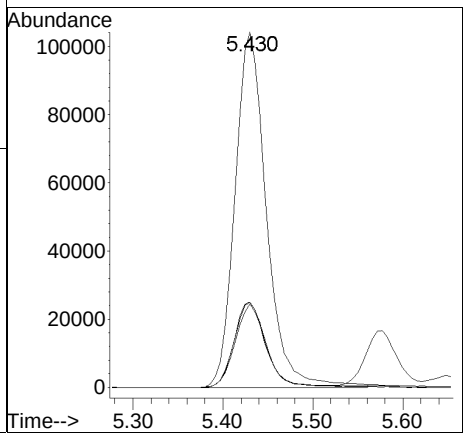


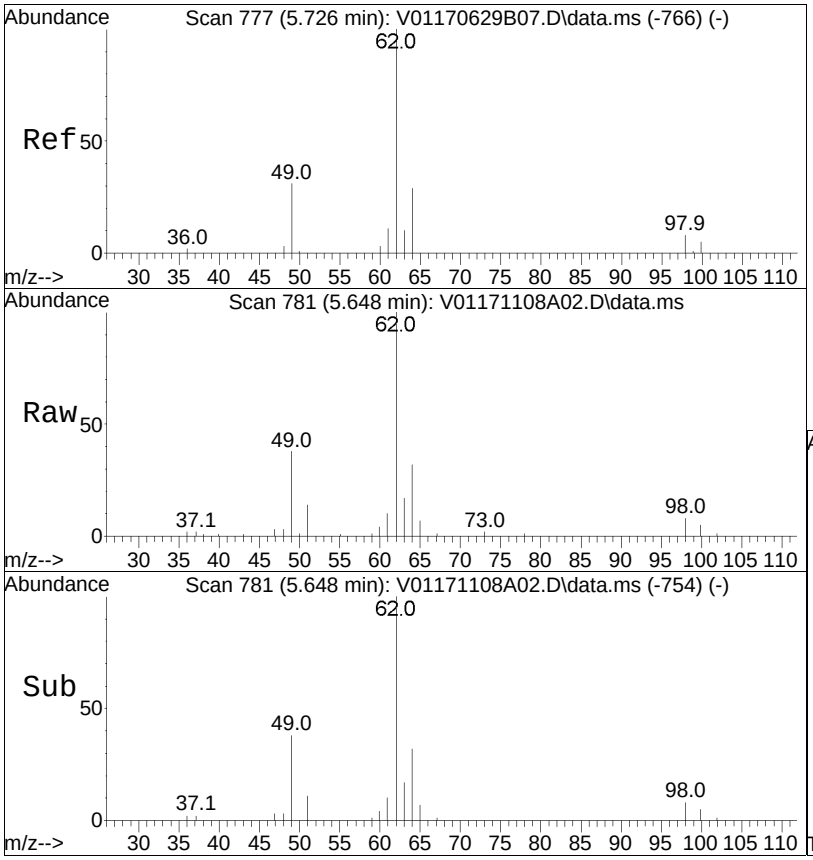


#41
Benzene
Concen: 9.04 ug/L
RT: 5.430 min Scan# 741
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 78 Resp: 253162

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.3	31.9
51	24.2	10.9	22.5#
52	24.3	10.1	20.9#

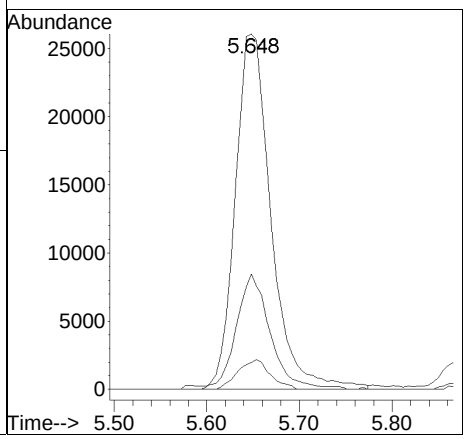


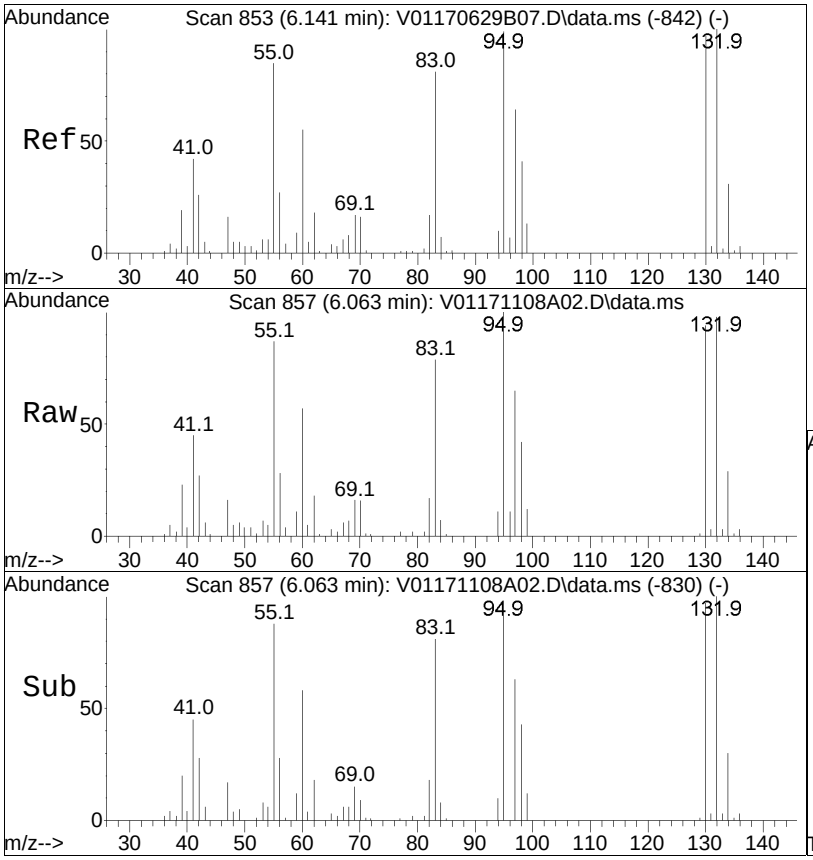


#44
1,2-Dichloroethane
Concen: 10.04 ug/L
RT: 5.648 min Scan# 781
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 62 Resp: 70185

Ion	Ratio	Lower	Upper
62	100		
64	30.7	13.7	53.7
98	7.6	0.0	29.0

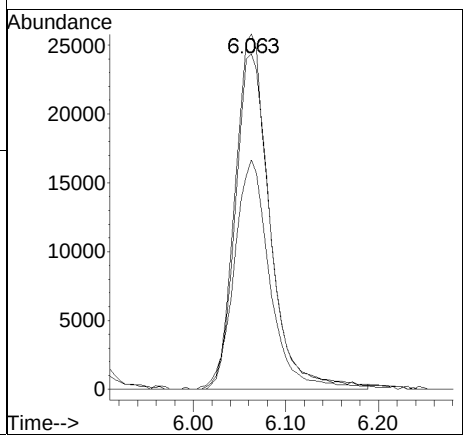


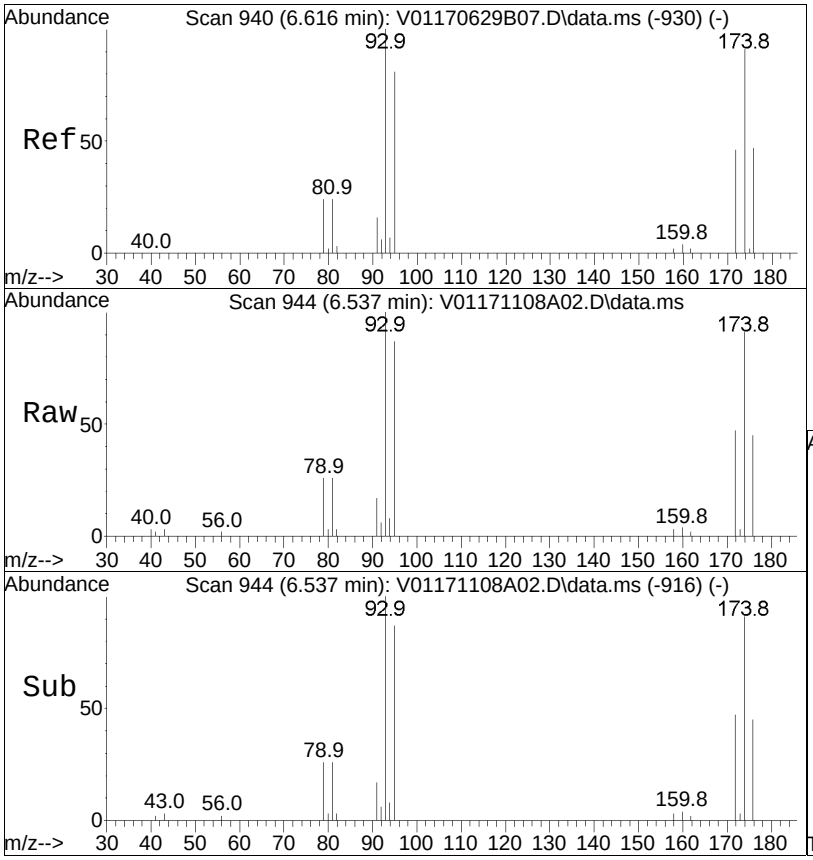


#48
Trichloroethene
Concen: 9.56 ug/L
RT: 6.063 min Scan# 857
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 95 Resp: 67309

Ion	Ratio	Lower	Upper
95	100		
97	66.5	55.1	82.7
130	95.0	71.9	107.9

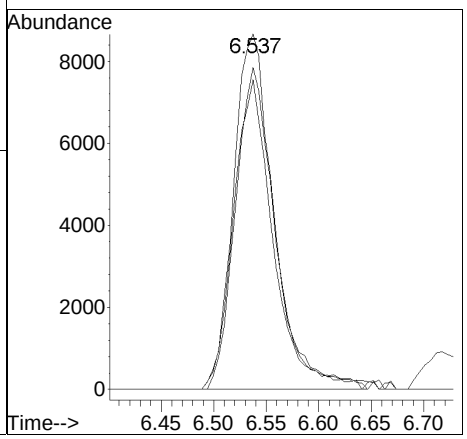


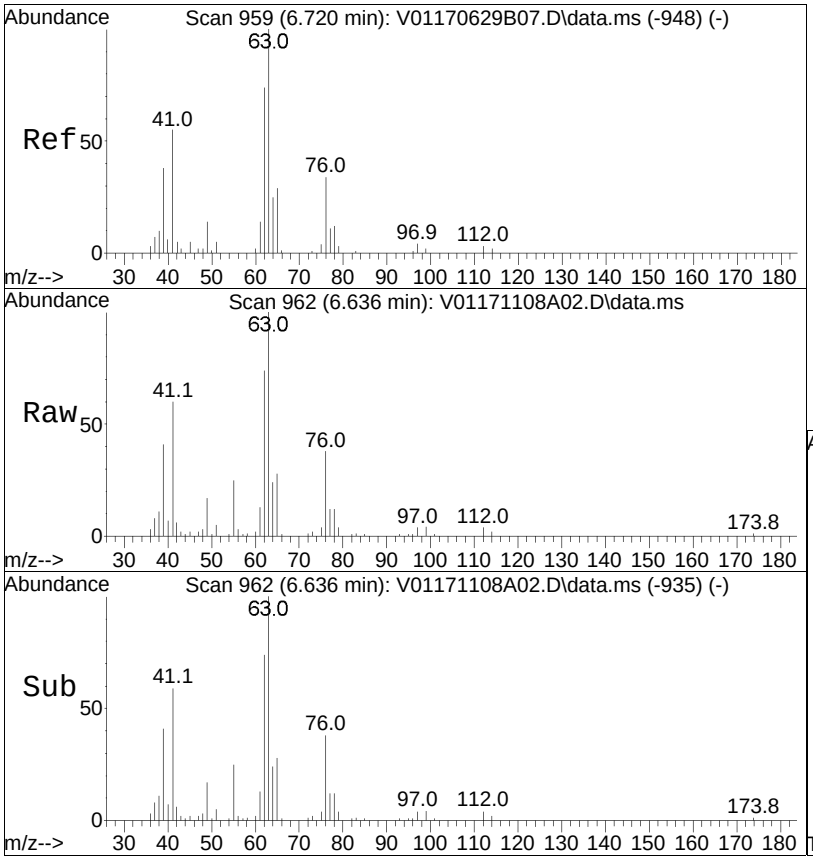


#50
Dibromomethane
Concen: 9.26 ug/L
RT: 6.537 min Scan# 944
Delta R.T. 0.003 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 93 Resp: 23428

Ion	Ratio	Lower	Upper
93	100		
95	83.9	65.9	98.9
174	88.6	68.5	102.7

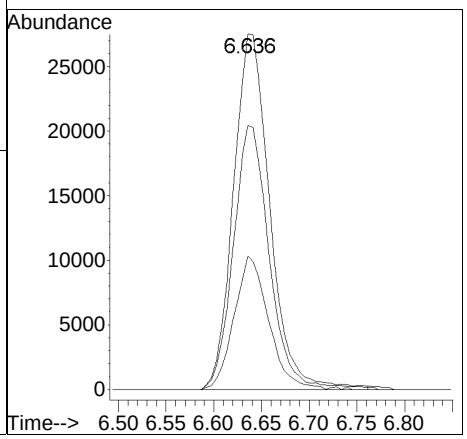


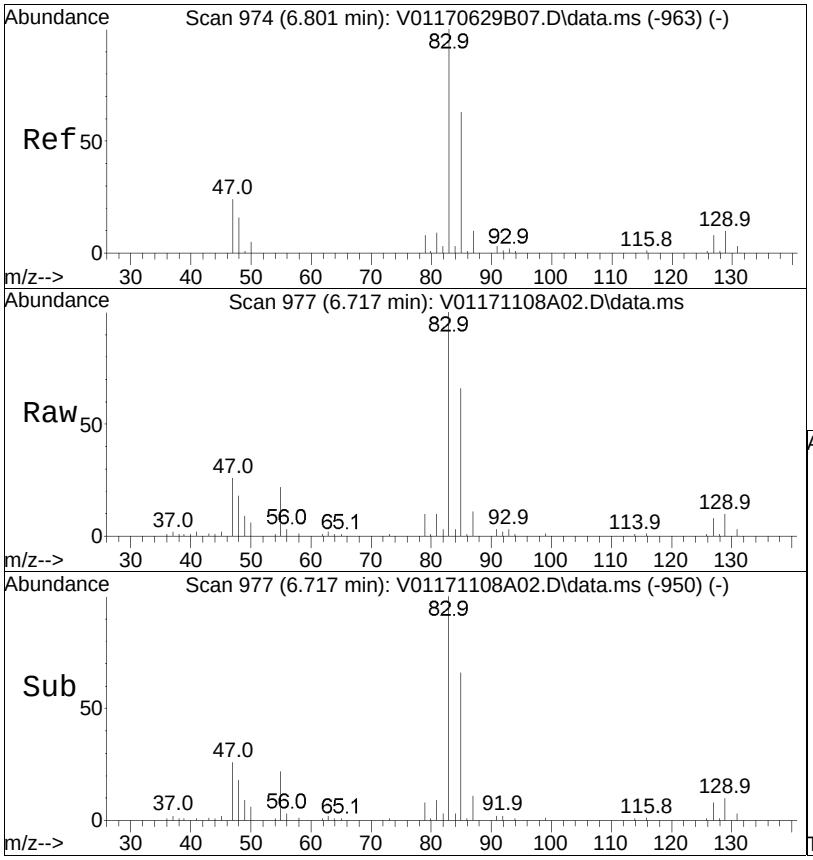


#51
1,2-Dichloropropane
Concen: 9.49 ug/L
RT: 6.636 min Scan# 962
Delta R.T. -0.001 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 63 Resp: 73103

Ion	Ratio	Lower	Upper
63	100		
62	73.3	57.1	85.7
76	35.4	35.3	52.9

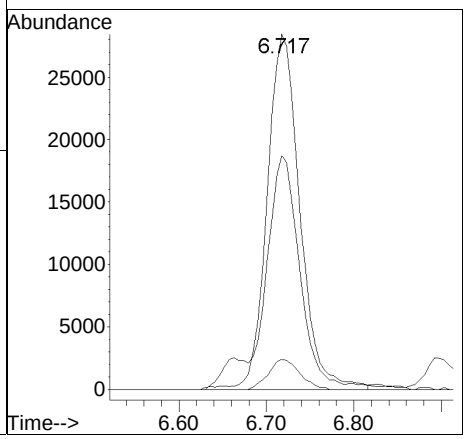


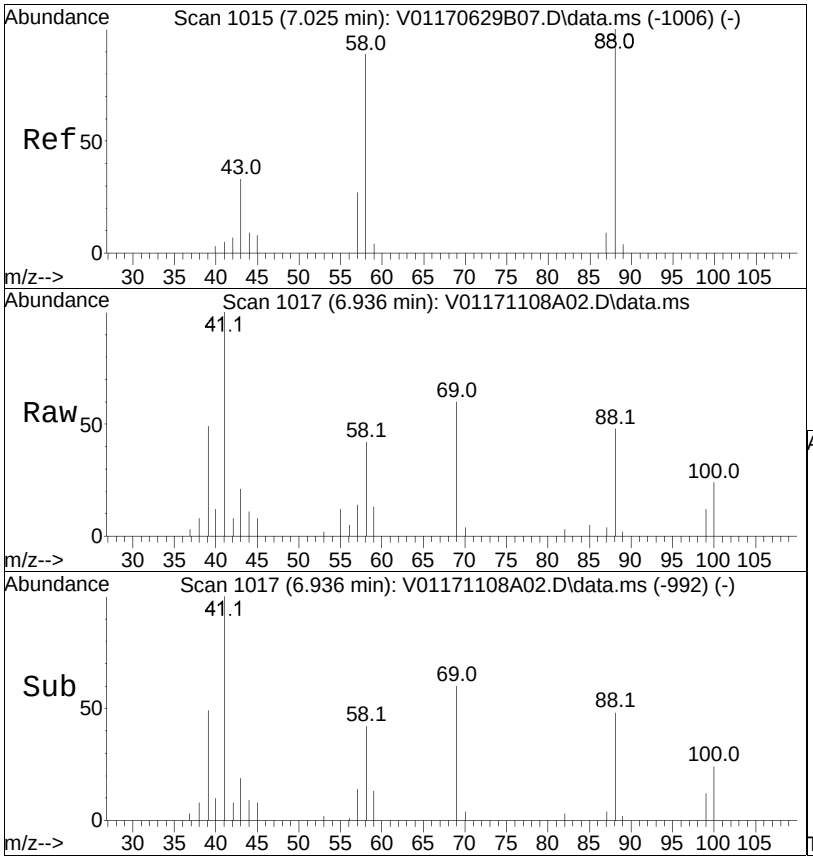


#54
Bromodichloromethane
Concen: 9.46 ug/L
RT: 6.717 min Scan# 977
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 83 Resp: 74188

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.7	76.1
127	8.0	6.3	9.5

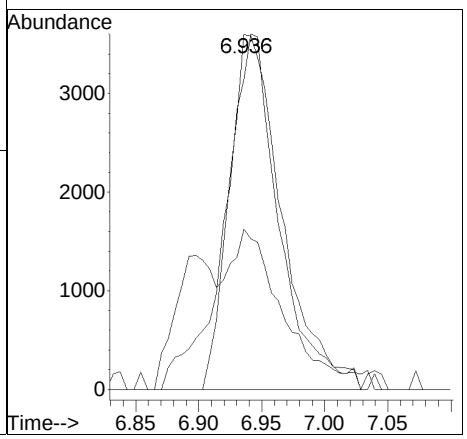


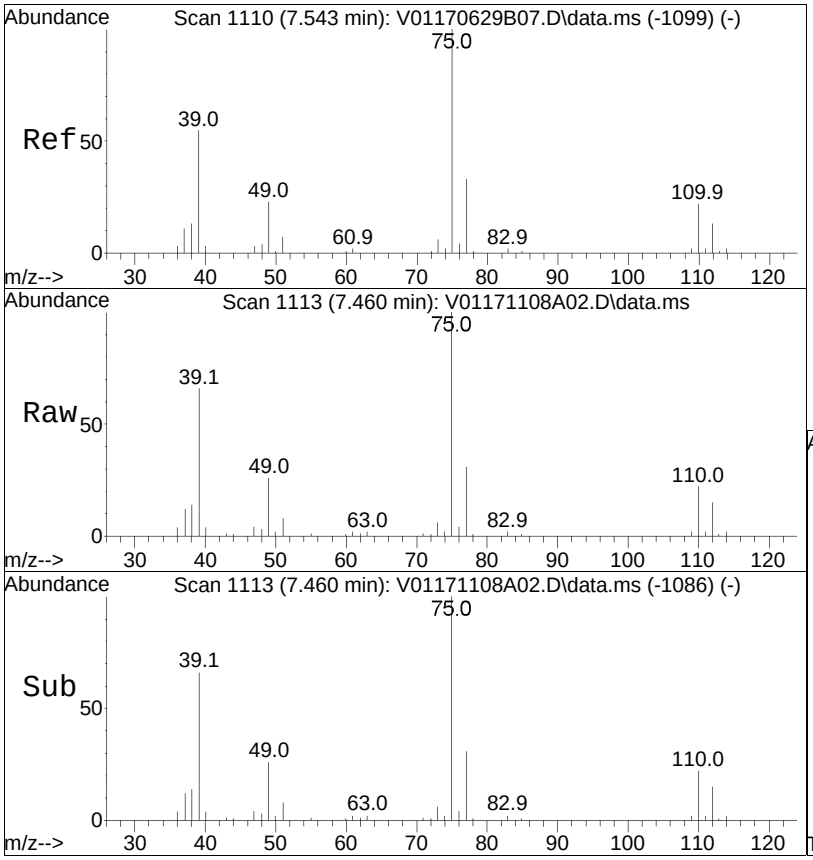


#57
1,4-Dioxane
Concen: 409.63 ug/L
RT: 6.936 min Scan# 1017
Delta R.T. -0.012 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 88 Resp: 10439

Ion	Ratio	Lower	Upper
88	100		
58	103.9	53.5	80.3#
43	36.9	28.6	42.8

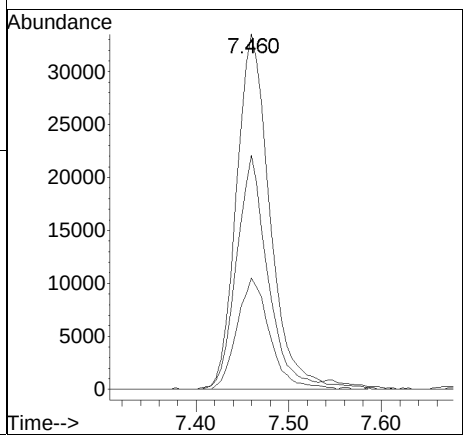


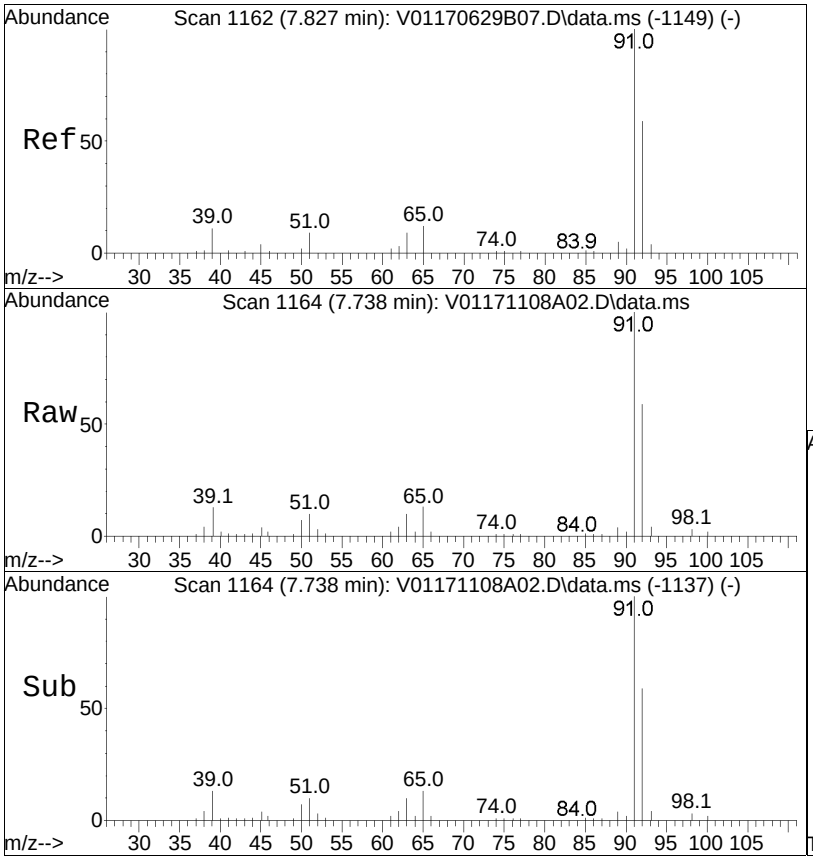


#58
cis-1,3-Dichloropropene
Concen: 8.93 ug/L
RT: 7.460 min Scan# 1113
Delta R.T. -0.001 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 75 Resp: 85250

Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.4	38.2
39	62.3	42.1	63.1

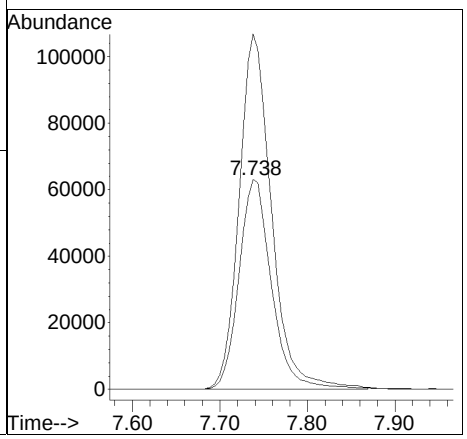


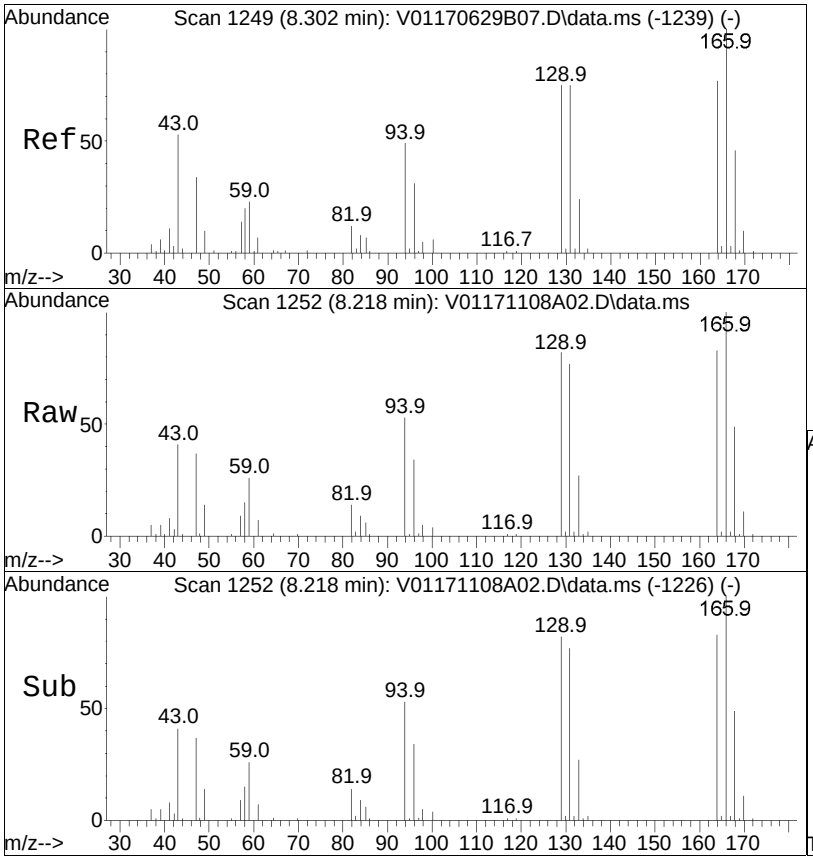


#61
Toluene
Concen: 8.90 ug/L
RT: 7.738 min Scan# 1164
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 92 Resp: 163493

Ion	Ratio	Lower	Upper
92	100		
91	168.0	138.6	207.8

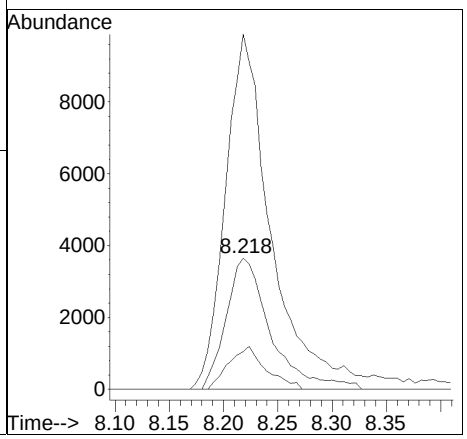


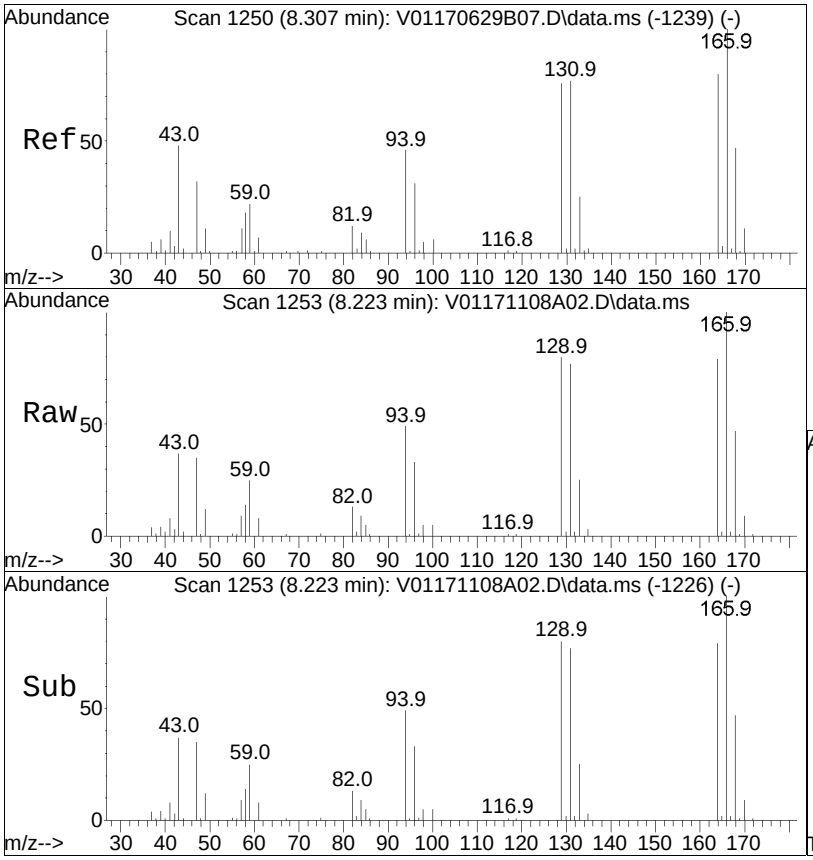


#62
4-Methyl-2-pentanone
Concen: 8.80 ug/L
RT: 8.218 min Scan# 1252
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 58 Resp: 10439

Ion	Ratio	Lower	Upper
58	100		
100	27.5	31.1	46.7#
43	278.3	217.6	326.4

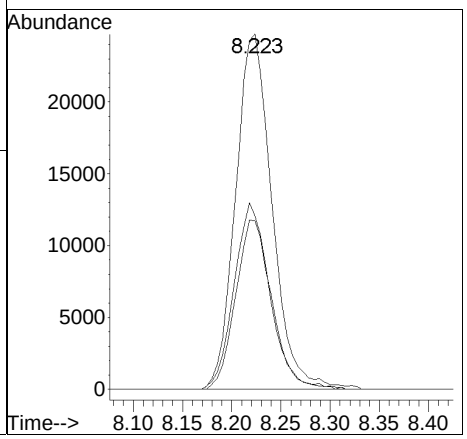


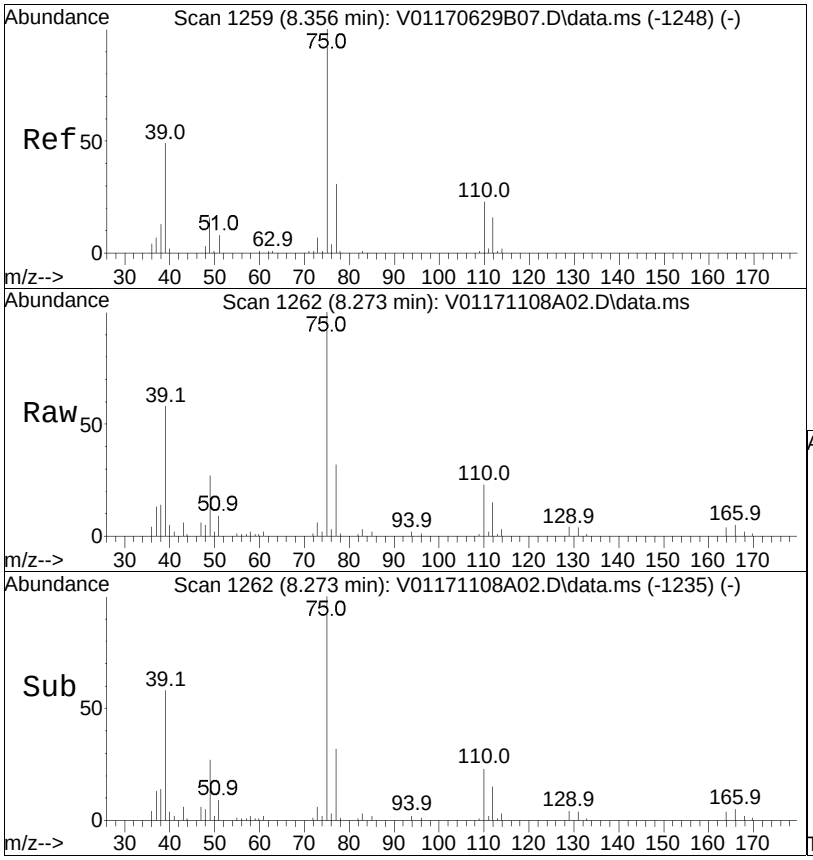


#63
Tetrachloroethene
Concen: 9.05 ug/L
RT: 8.223 min Scan# 1253
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:166 Resp: 63943

Ion	Ratio	Lower	Upper
166	100		
168	47.3	26.8	66.8
94	51.3	33.1	73.1

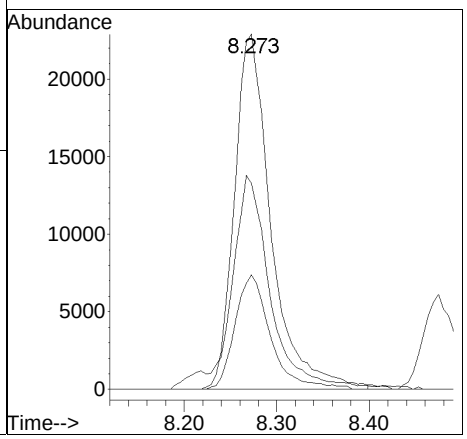


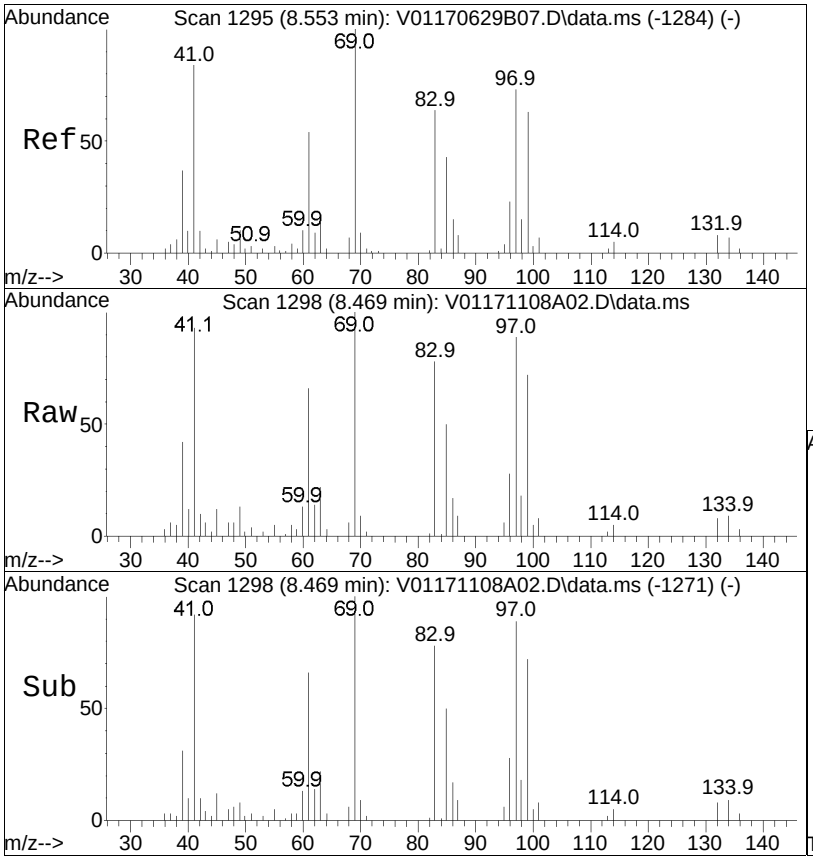


#65
trans-1,3-Dichloropropene
Concen: 8.35 ug/L
RT: 8.273 min Scan# 1262
Delta R.T. -0.001 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 75 Resp: 63096

Ion	Ratio	Lower	Upper
75	100		
77	31.4	11.8	51.8
39	63.9	34.7	74.7

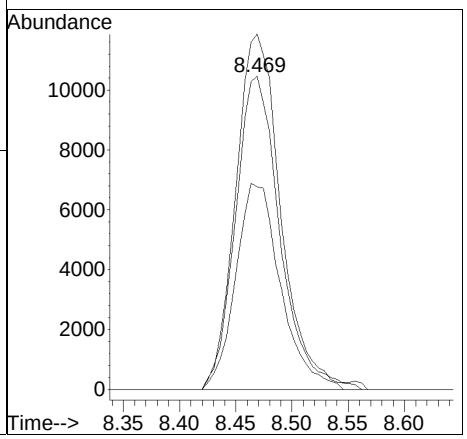


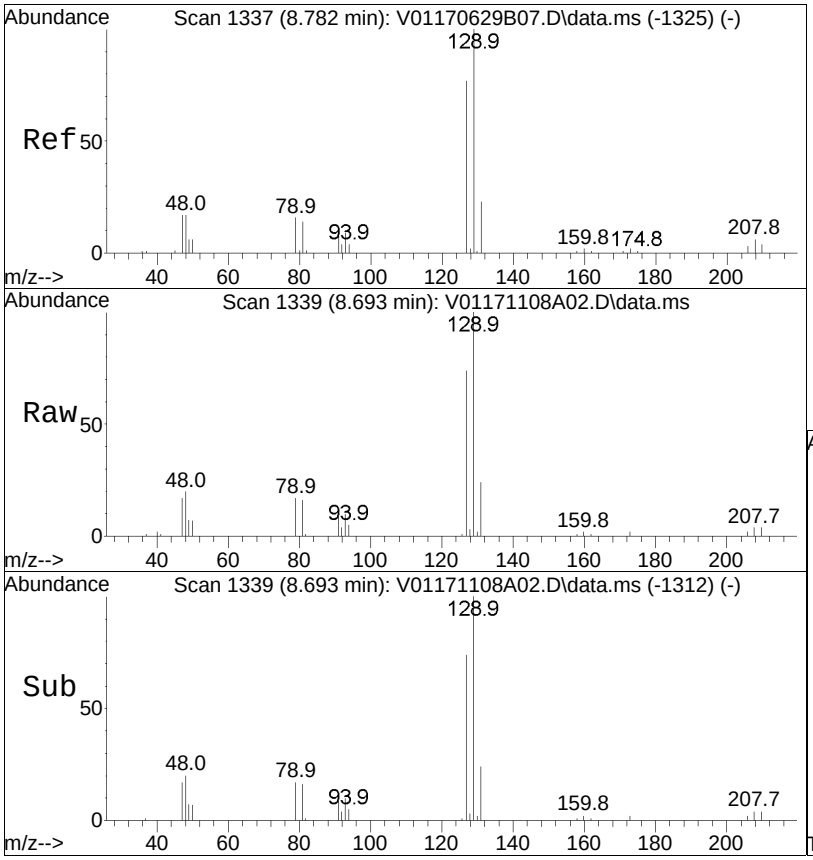


#68
1,1,2-Trichloroethane
Concen: 8.84 ug/L
RT: 8.469 min Scan# 1298
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 83 Resp: 28776

Ion	Ratio	Lower	Upper
83	100		
97	114.7	99.6	139.6
85	66.5	46.7	86.7

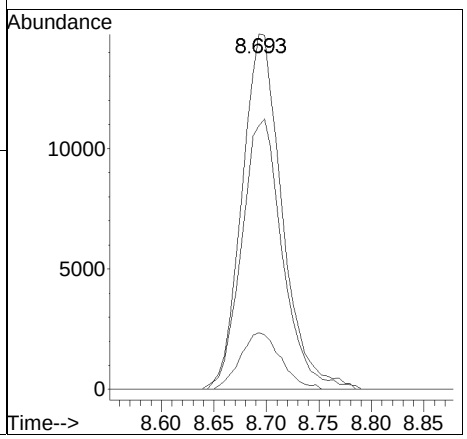


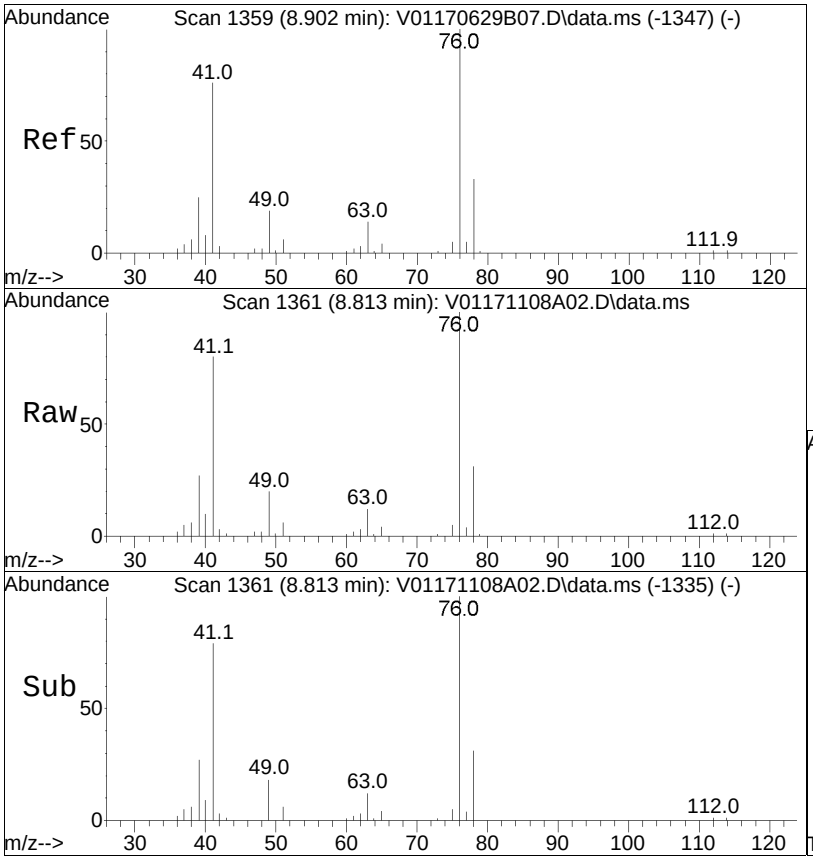


#69
Chlorodibromomethane
Concen: 8.61 ug/L
RT: 8.693 min Scan# 1339
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:129 Resp: 39326

Ion	Ratio	Lower	Upper
129	100		
81	16.1	0.7	40.7
127	77.4	59.8	99.8

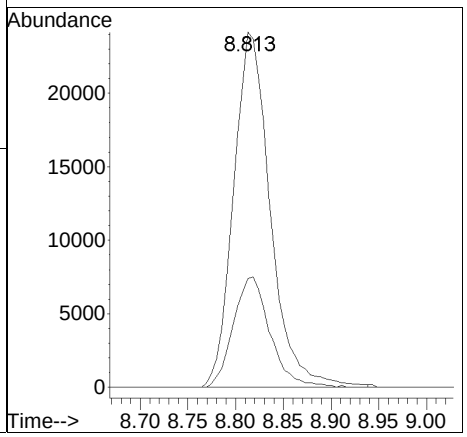


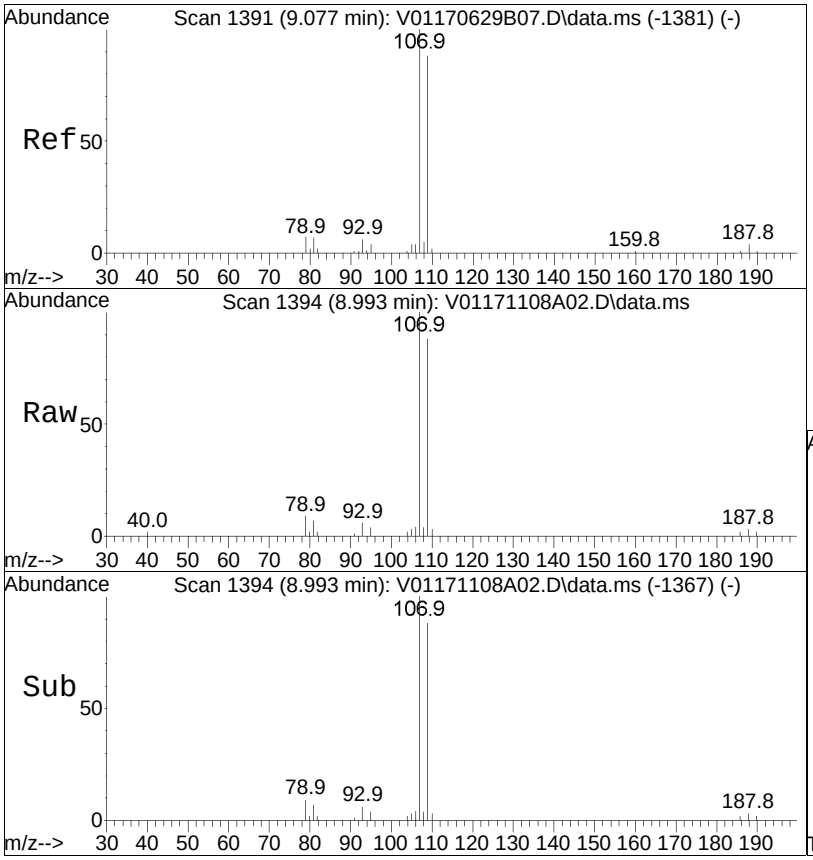


#70
1,3-Dichloropropane
Concen: 9.05 ug/L
RT: 8.813 min Scan# 1361
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 76 Resp: 64771

Ion	Ratio	Lower	Upper
76	100		
78	31.2	25.6	38.4

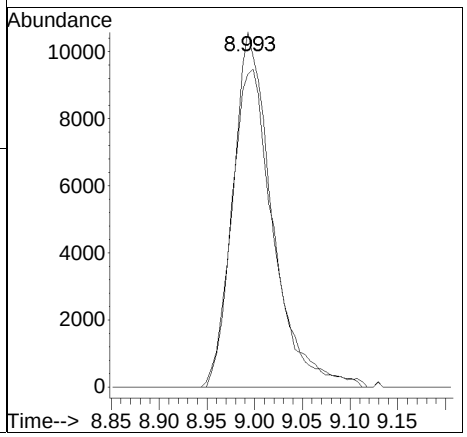


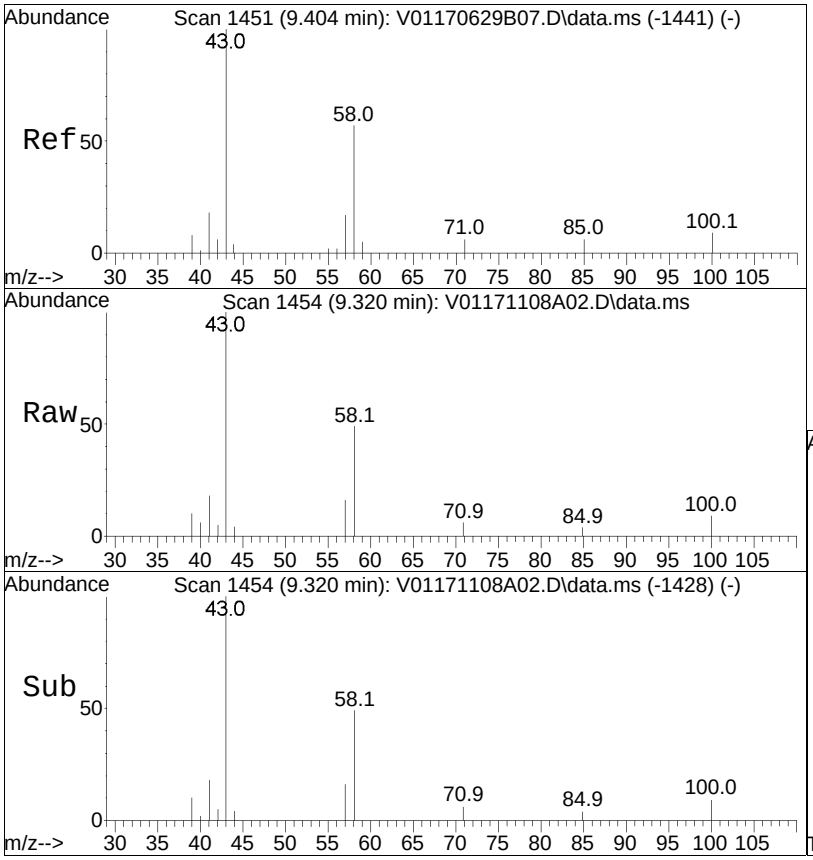


#71
1,2-Dibromoethane
Concen: 8.68 ug/L
RT: 8.993 min Scan# 1394
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:107 Resp: 30569

Ion	Ratio	Lower	Upper
107	100		
109	94.7	74.3	111.5

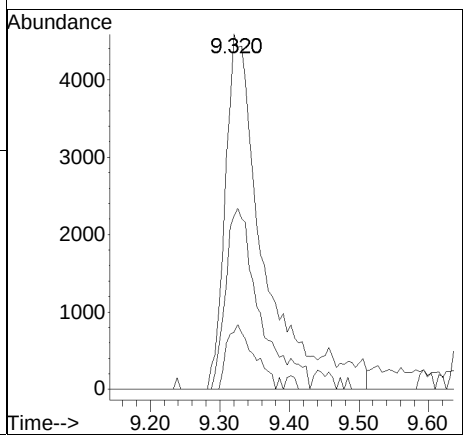


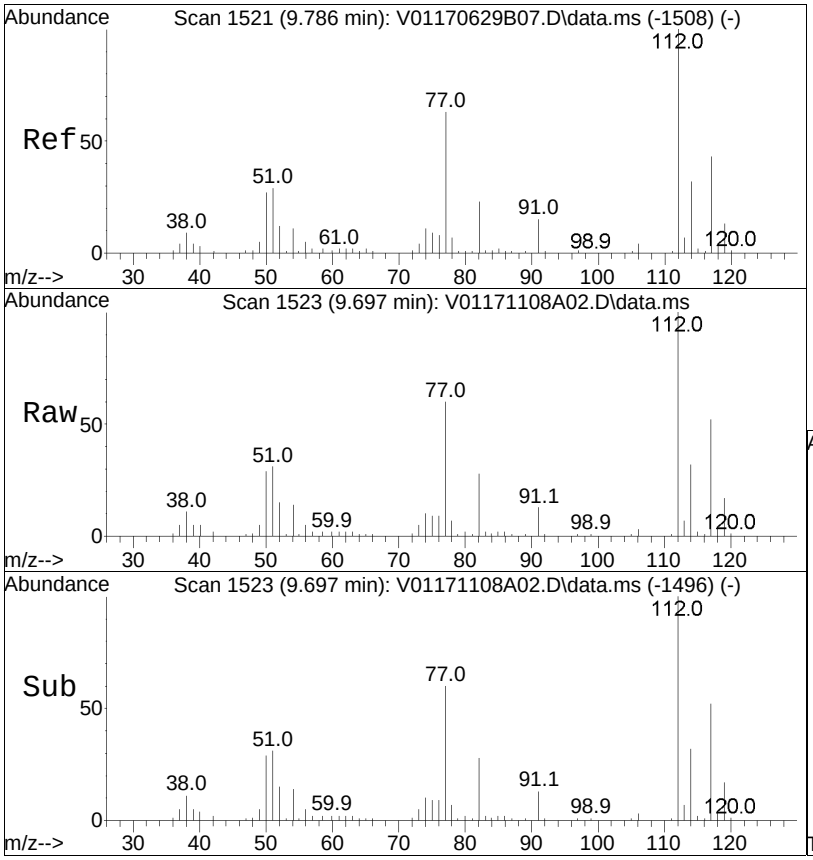


#72
2-Hexanone
Concen: 9.19 ug/L M1
RT: 9.320 min Scan# 1454
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 43 Resp: 17833

Ion	Ratio	Lower	Upper
43	100		
58	44.7	38.9	58.3
57	12.8	14.5	21.7#

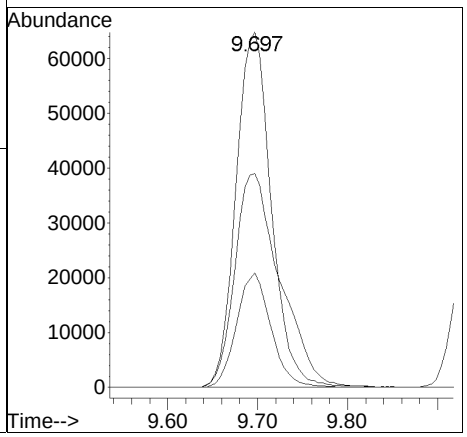


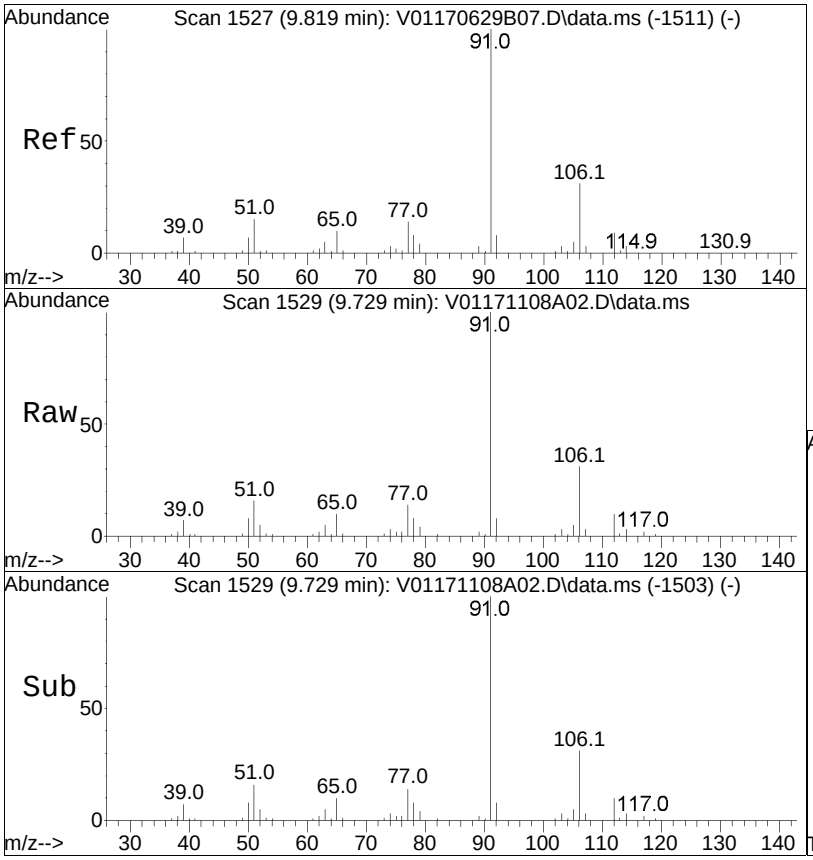


#73
Chlorobenzene
Concen: 9.22 ug/L
RT: 9.697 min Scan# 1523
Delta R.T. -0.001 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:112 Resp: 176734

Ion	Ratio	Lower	Upper
112	100		
77	77.1	62.7	94.1
114	31.4	25.6	38.4

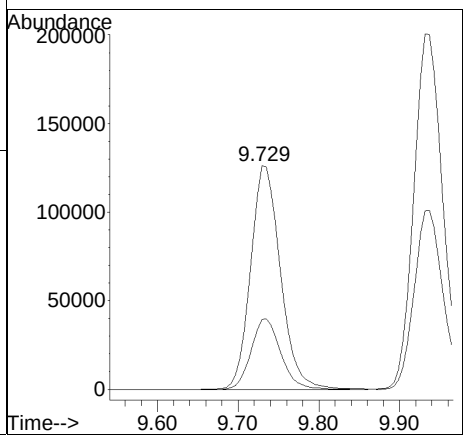


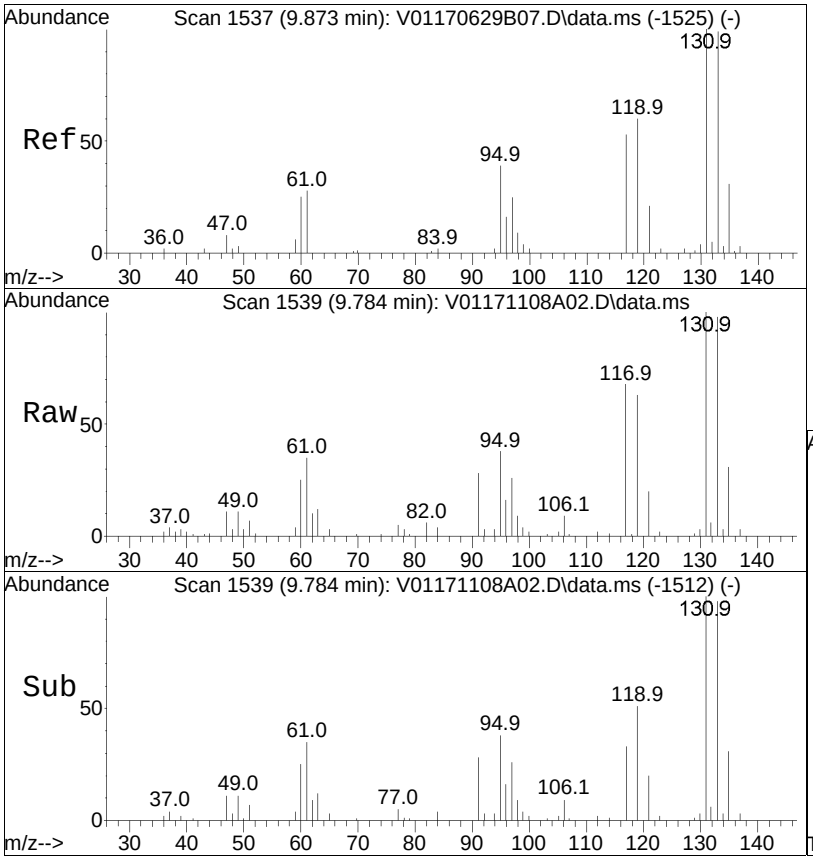


#74
Ethylbenzene
Concen: 9.36 ug/L
RT: 9.729 min Scan# 1529
Delta R.T. -0.008 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 91 Resp: 325643

Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.5	35.3

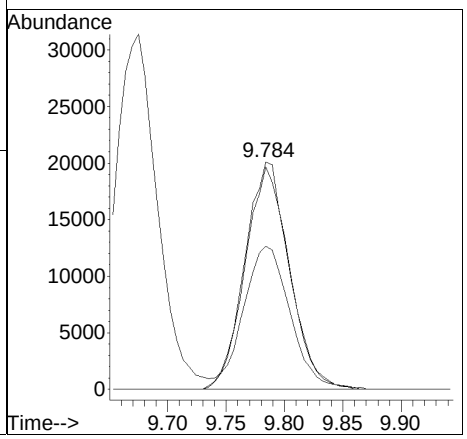


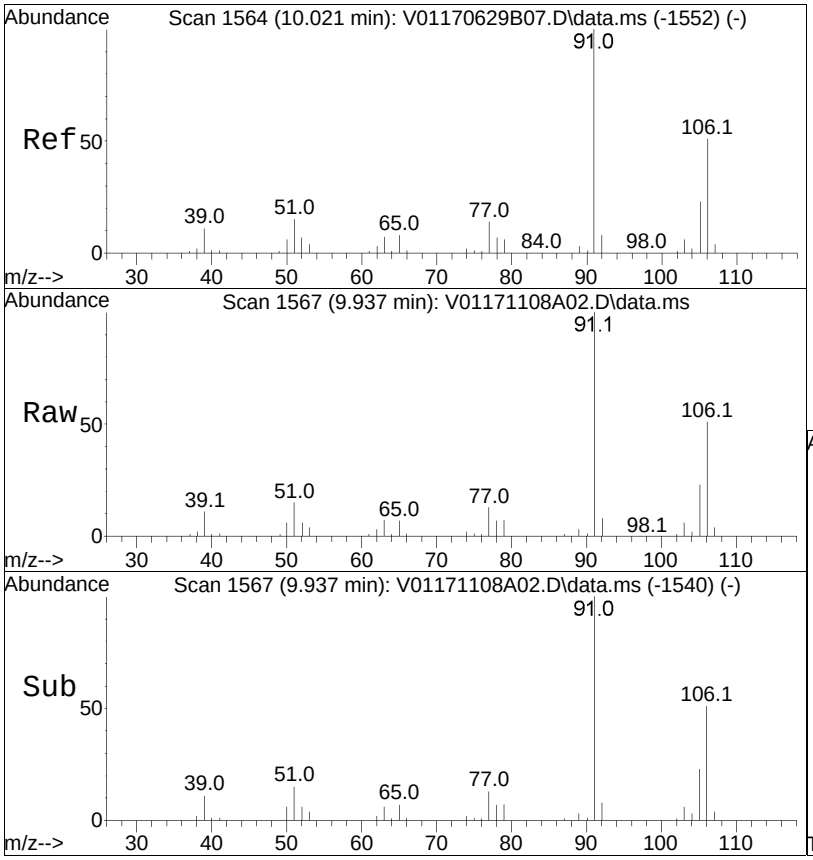


#75
1,1,1,2-Tetrachloroethane
Concen: 8.88 ug/L
RT: 9.784 min Scan# 1539
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:131 Resp: 54009

Ion	Ratio	Lower	Upper
131	100		
133	96.1	77.6	117.6
119	65.3	47.4	87.4

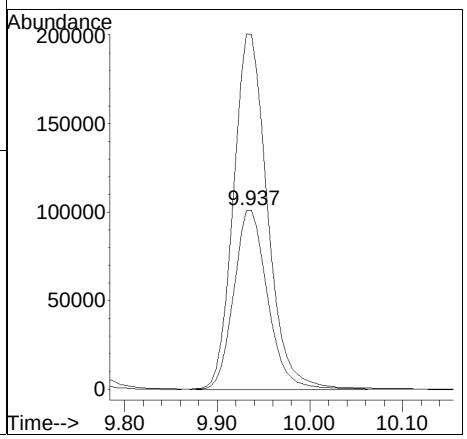


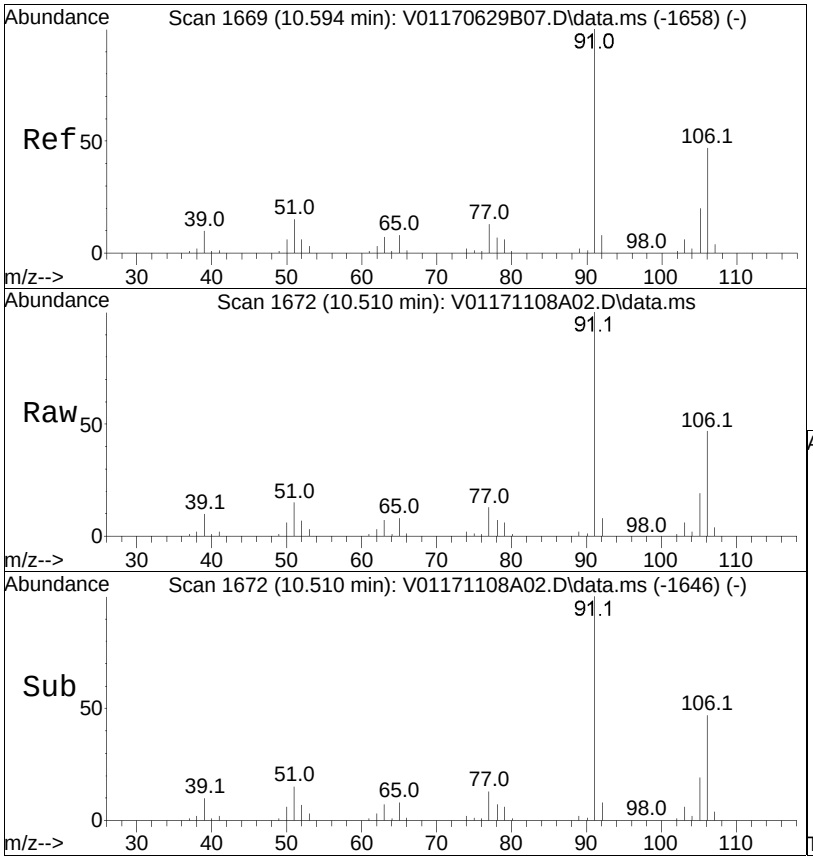


#76
p/m Xylene
Concen: 19.28 ug/L
RT: 9.937 min Scan# 1567
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:106 Resp: 256867

Ion	Ratio	Lower	Upper
106	100		
91	197.5	174.8	262.2

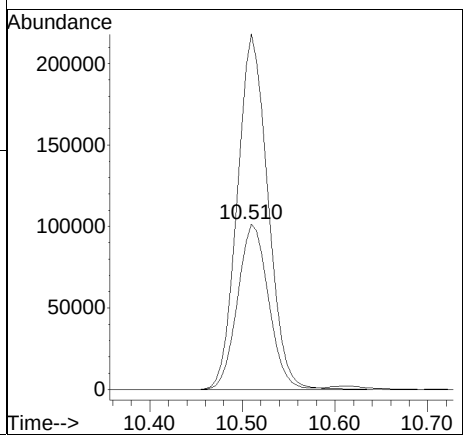


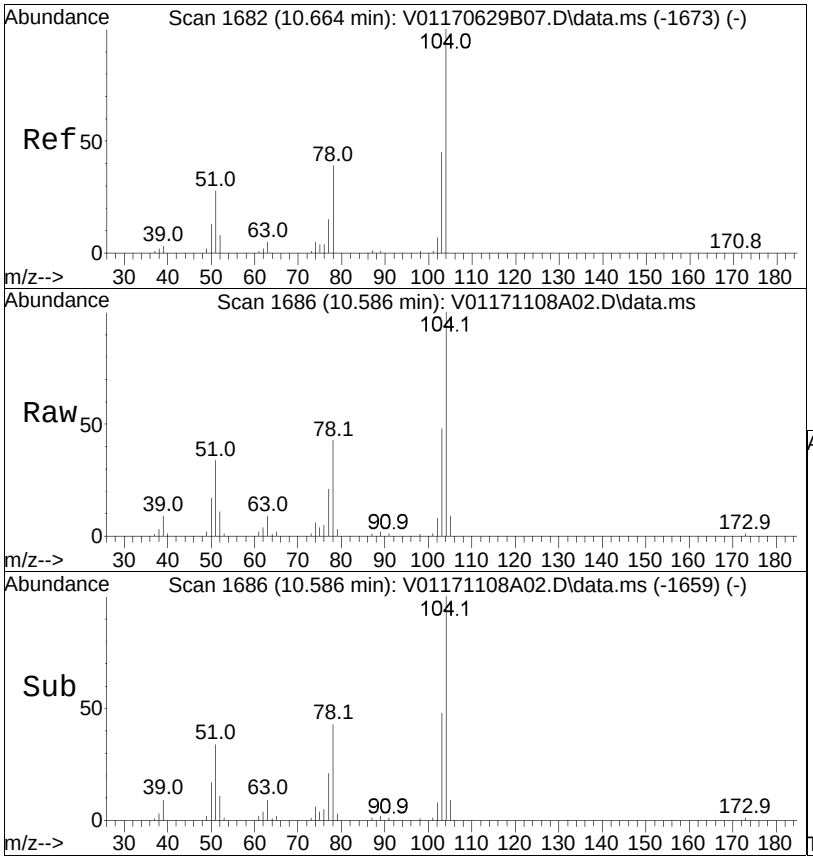


#77
o Xylene
Concen: 19.68 ug/L
RT: 10.510 min Scan# 1672
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:106 Resp: 237250

Ion	Ratio	Lower	Upper
106	100		
91	210.3	184.5	276.7

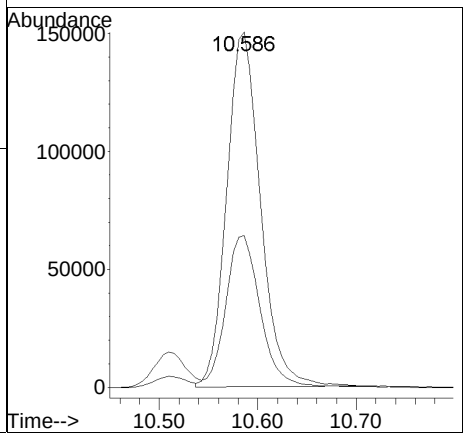


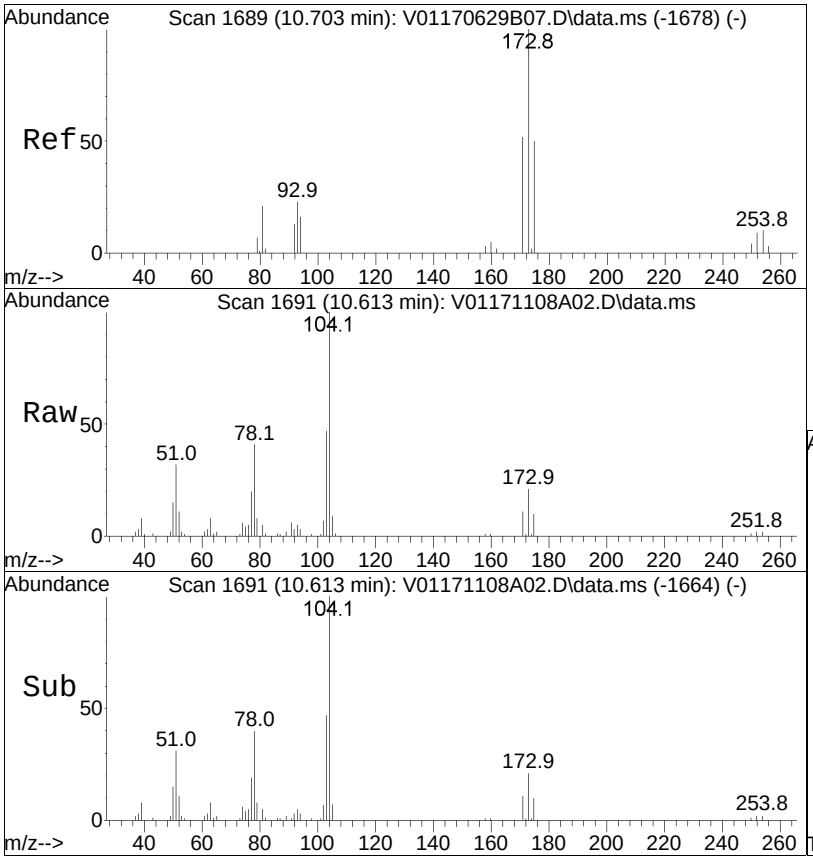


#78
Styrene
Concen: 19.17 ug/L
RT: 10.586 min Scan# 1686
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:104 Resp: 358944

Ion	Ratio	Lower	Upper
104	100		
78	43.3	36.4	54.6

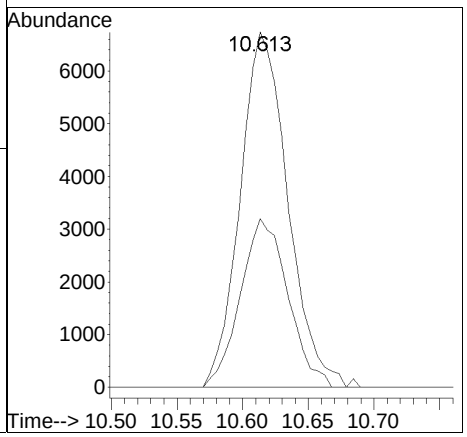


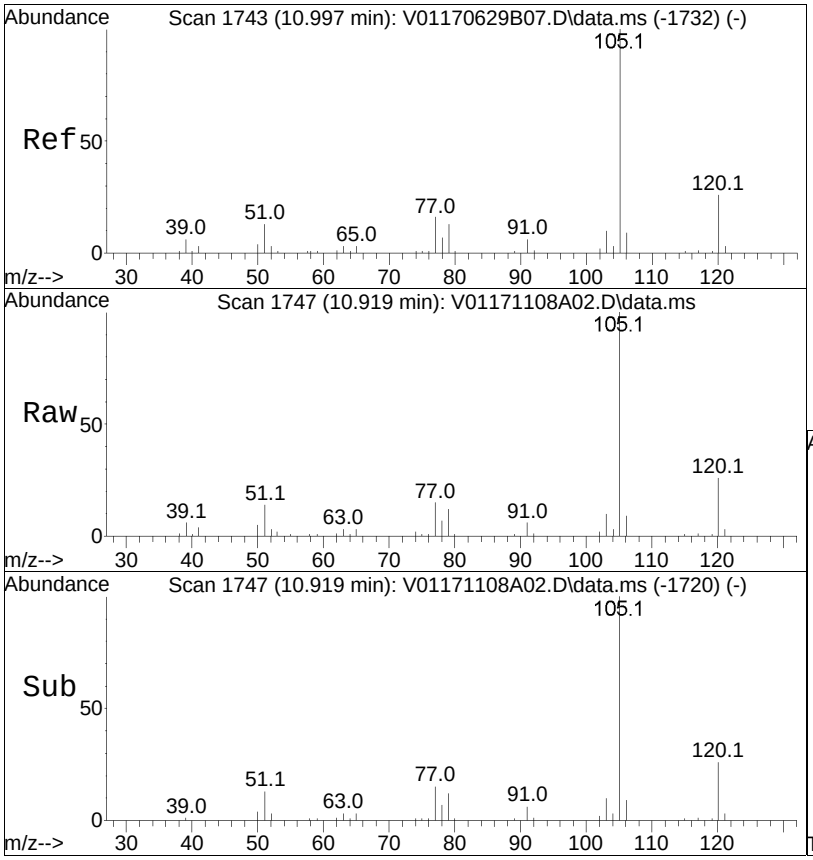


#80
Bromoform
Concen: 8.51 ug/L
RT: 10.613 min Scan# 1691
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:173 Resp: 17085

Ion	Ratio	Lower	Upper
173	100		
175	47.2	27.8	67.8

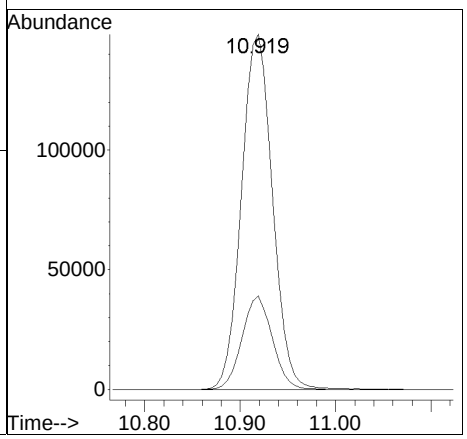


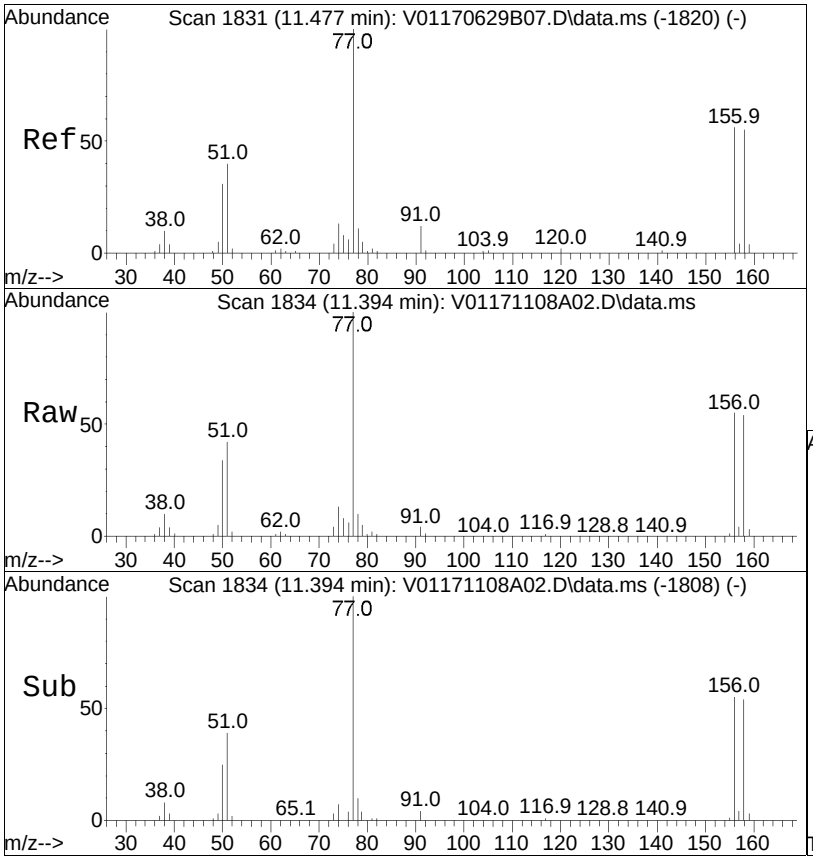


#82
Isopropylbenzene
Concen: 9.34 ug/L
RT: 10.919 min Scan# 1747
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:105 Resp: 335135

Ion	Ratio	Lower	Upper
105	100		
120	25.6	6.1	46.1

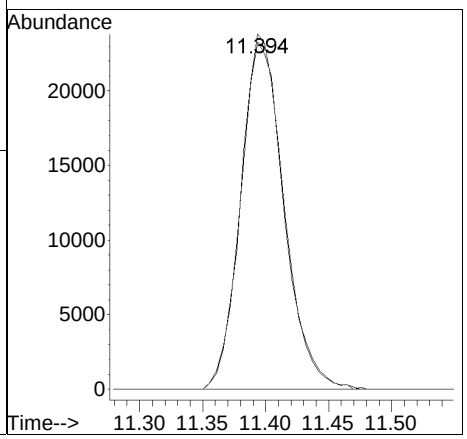


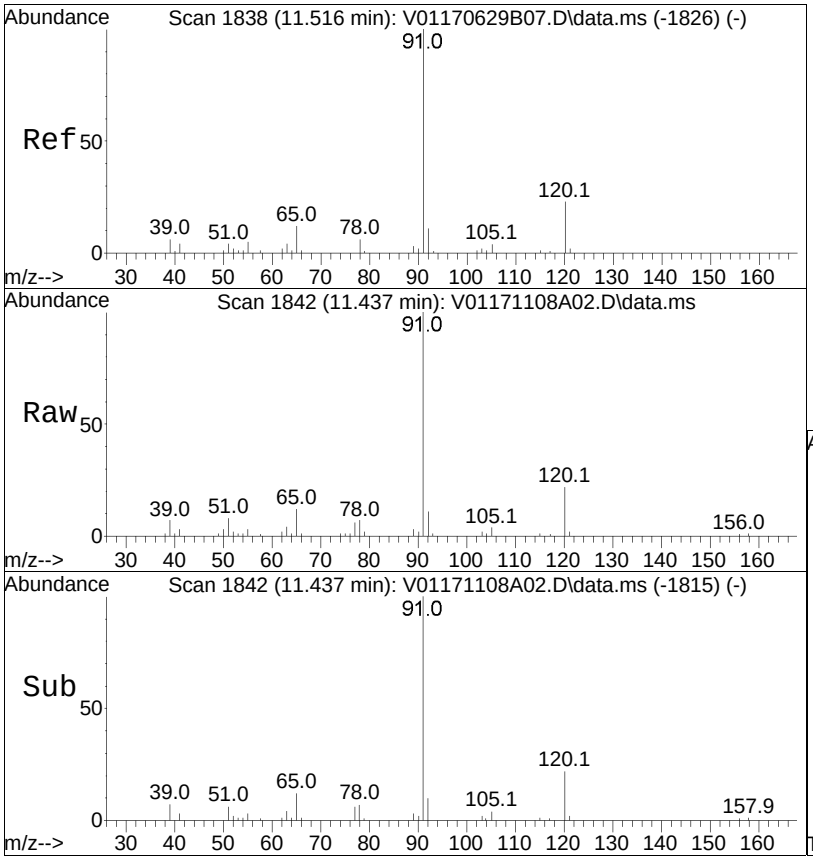


#84
Bromobenzene
Concen: 8.89 ug/L
RT: 11.394 min Scan# 1834
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:156 Resp: 56643

Ion	Ratio	Lower	Upper
156	100		
158	98.4	76.9	115.3

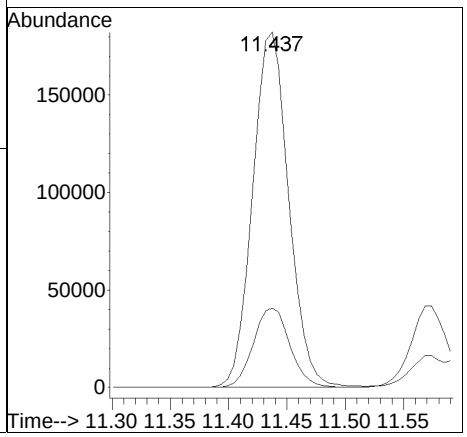


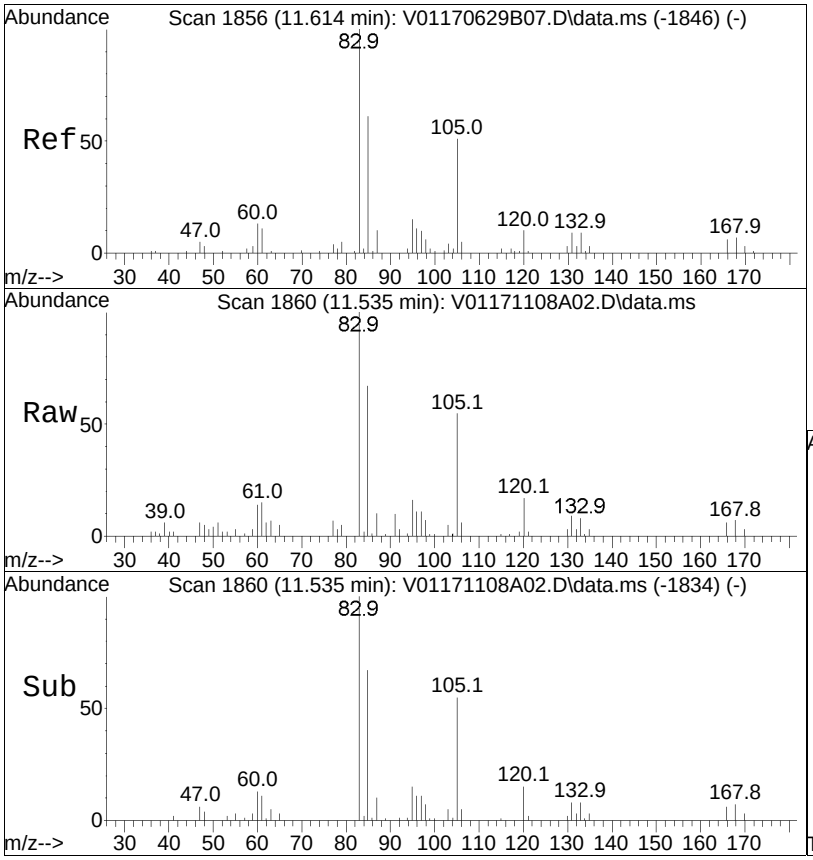


#85
n-Propylbenzene
Concen: 9.48 ug/L
RT: 11.437 min Scan# 1842
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 91 Resp: 392279

Ion	Ratio	Lower	Upper
91	100		
120	22.7	16.6	25.0

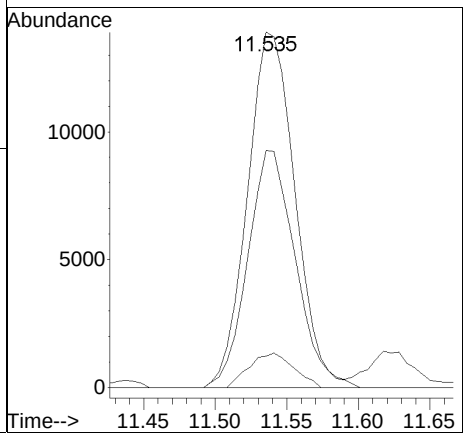


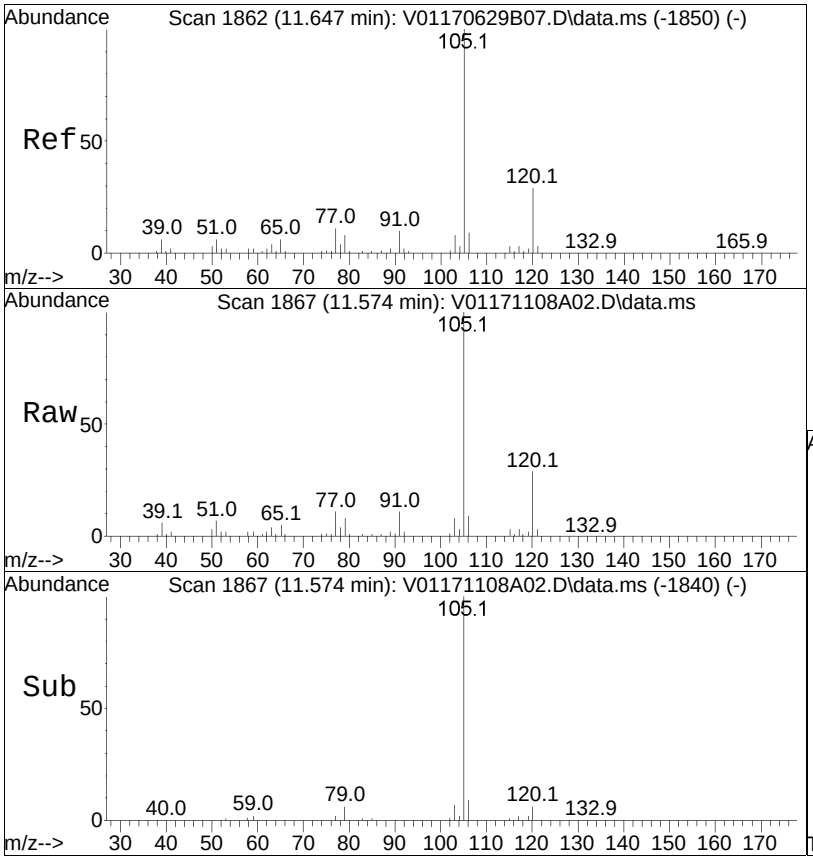


#87
1,1,2,2-Tetrachloroethane
Concen: 8.65 ug/L
RT: 11.535 min Scan# 1860
Delta R.T. -0.008 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 83 Resp: 32070

Ion	Ratio	Lower	Upper
83	100		
131	9.0	0.0	29.5
85	66.6	44.9	84.9

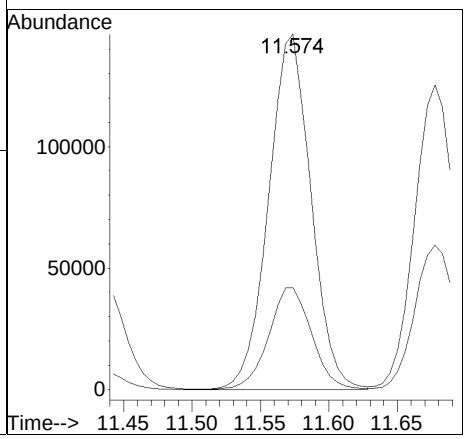


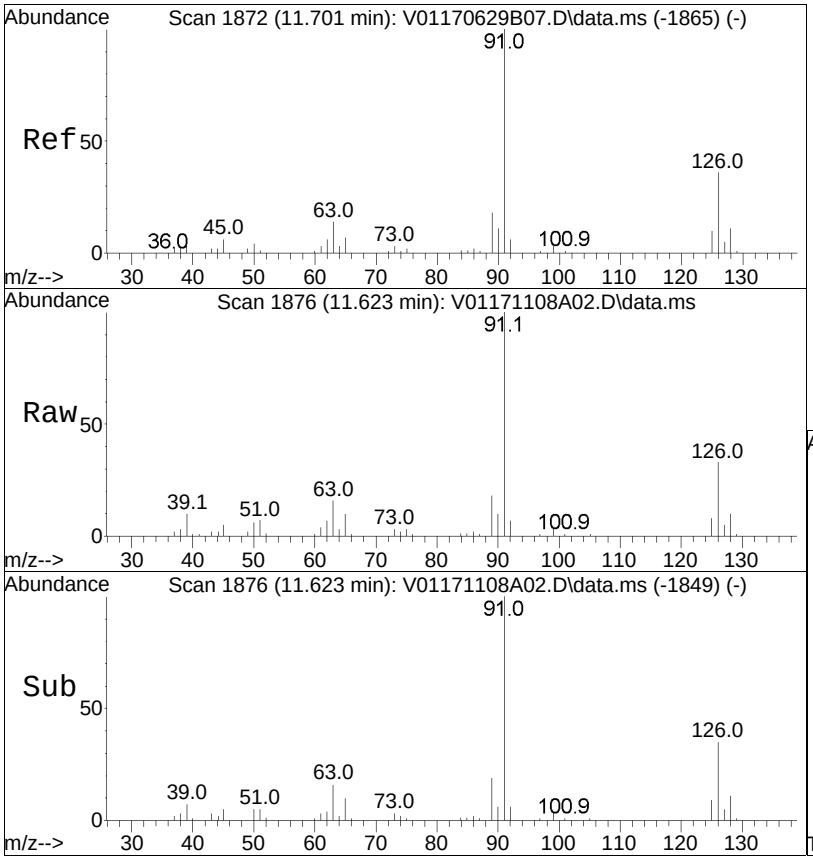


#88
4-Ethyltoluene
Concen: 9.48 ug/L
RT: 11.574 min Scan# 1867
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:105 Resp: 314447

Ion	Ratio	Lower	Upper
105	100		
120	28.7	18.9	39.1

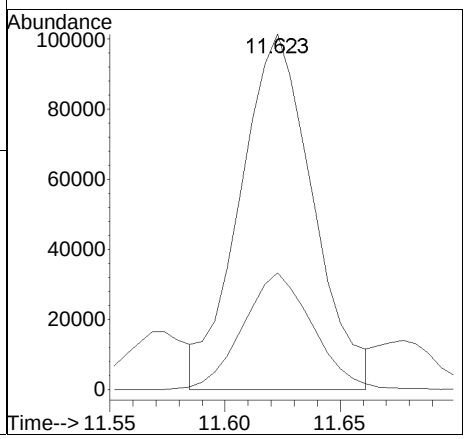


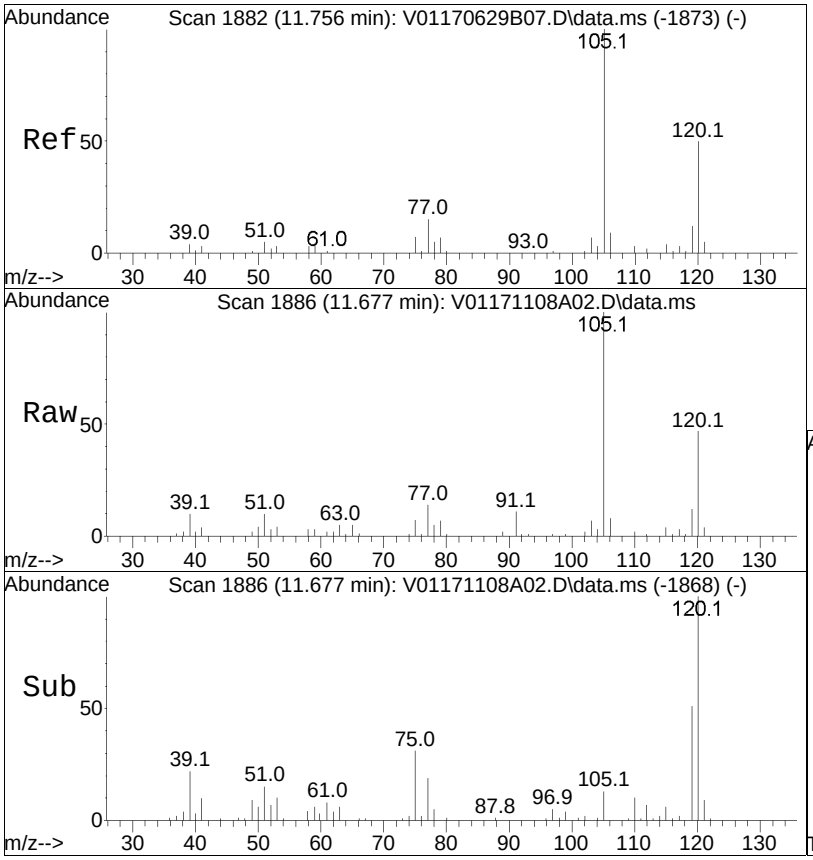


#89
2-Chlorotoluene
Concen: 9.35 ug/L M1
RT: 11.623 min Scan# 1876
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 91 Resp: 222574

Ion	Ratio	Lower	Upper
91	100		
126	31.4	22.9	34.3

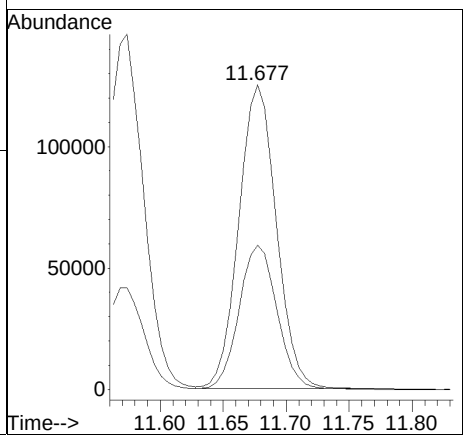


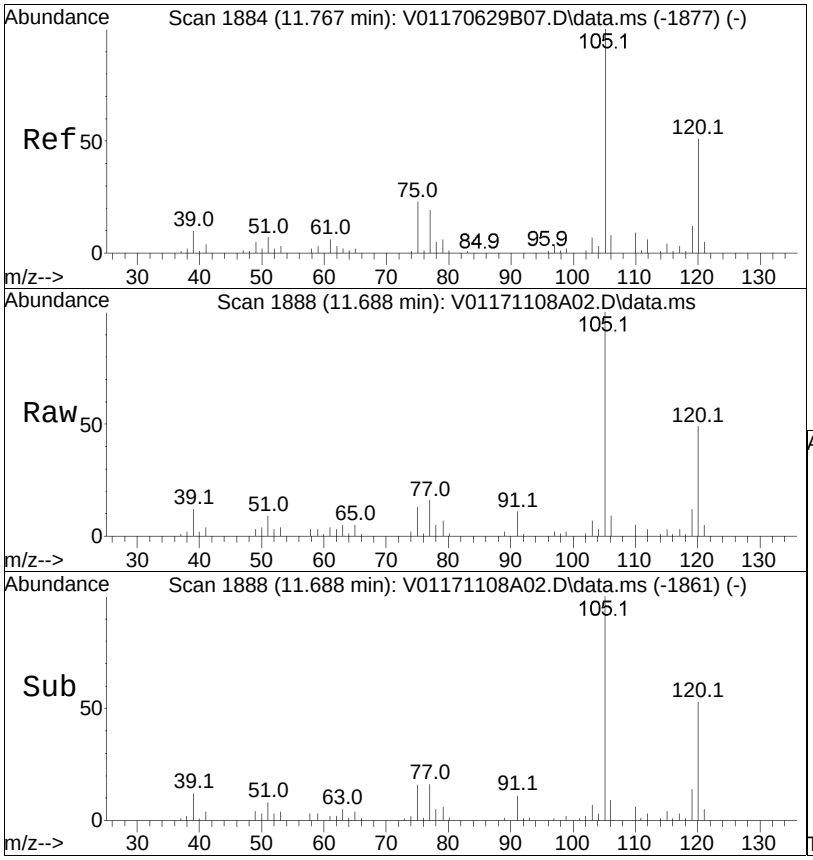


#90
1,3,5-Trimethylbenzene
Concen: 9.20 ug/L
RT: 11.677 min Scan# 1886
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:105 Resp: 259743

Ion	Ratio	Lower	Upper
105	100		
120	48.3	37.8	56.8

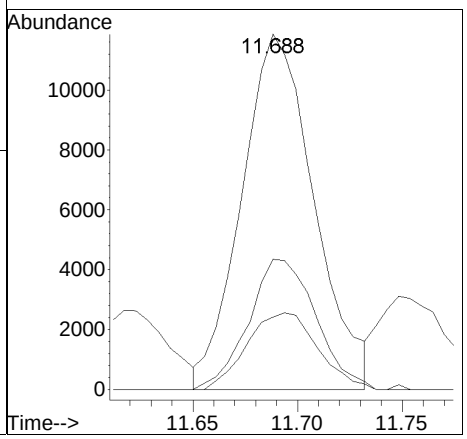


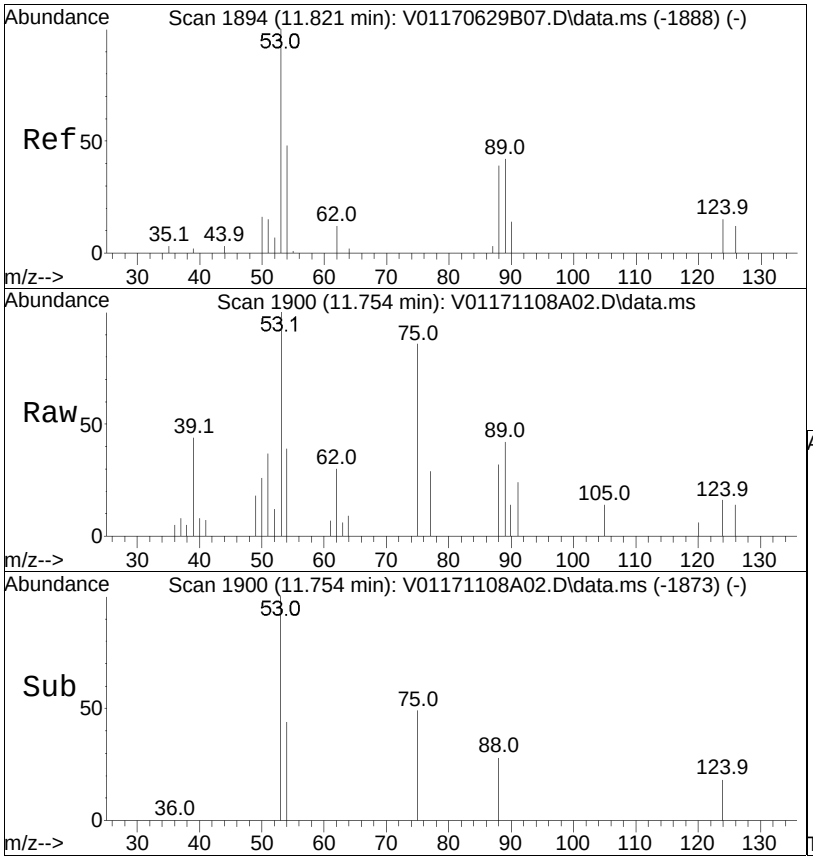


#91
1,2,3-Trichloropropane
Concen: 9.16 ug/L M1
RT: 11.688 min Scan# 1888
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 75 Resp: 28540

Ion	Ratio	Lower	Upper
75	100		
110	34.0	22.0	45.8
112	21.1	14.2	29.6

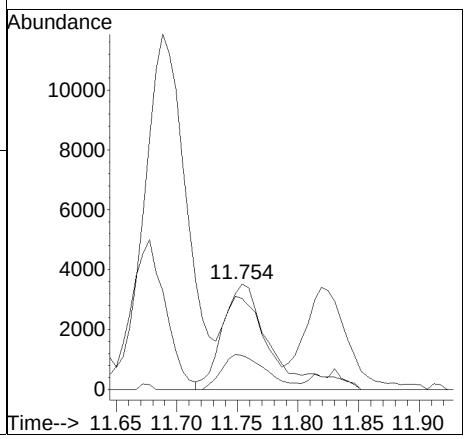


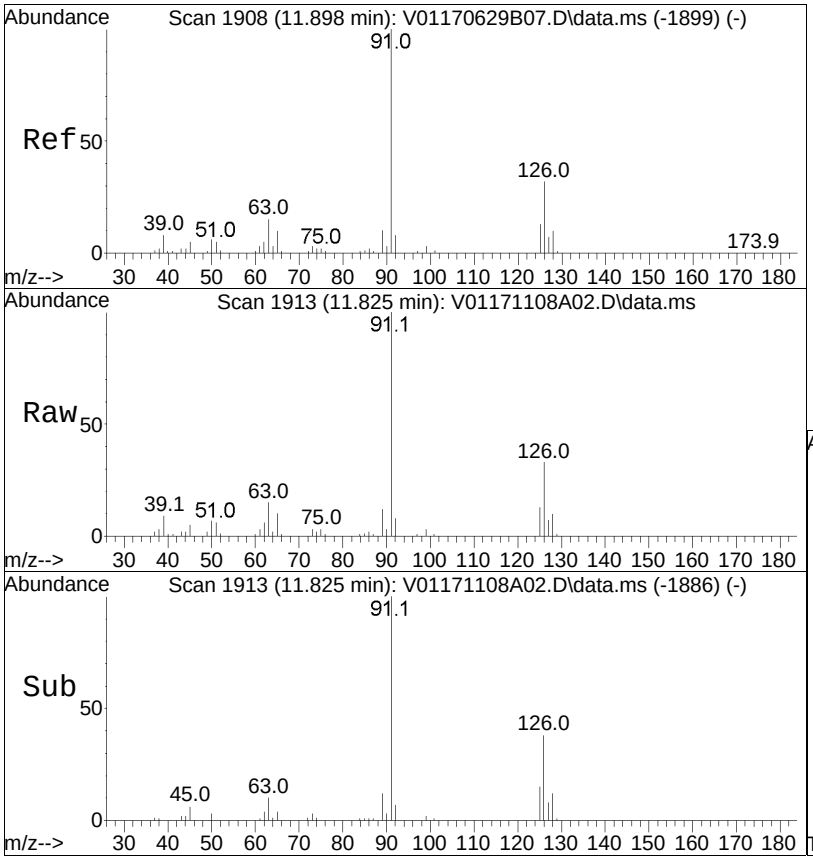


#92
trans-1,4-Dichloro-2-butene
Concen: 8.64 ug/L
RT: 11.754 min Scan# 1900
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 53 Resp: 9781

Ion	Ratio	Lower	Upper
53	100		
88	30.8	41.7	62.5#
75	56.9	81.3	121.9#

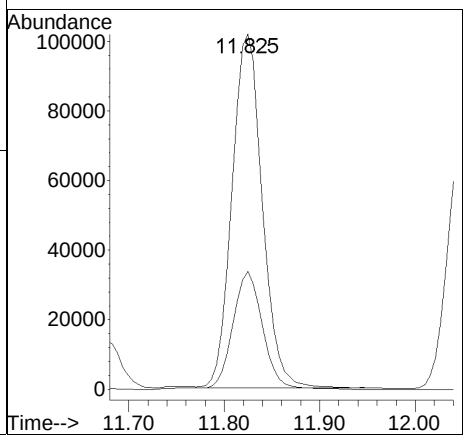


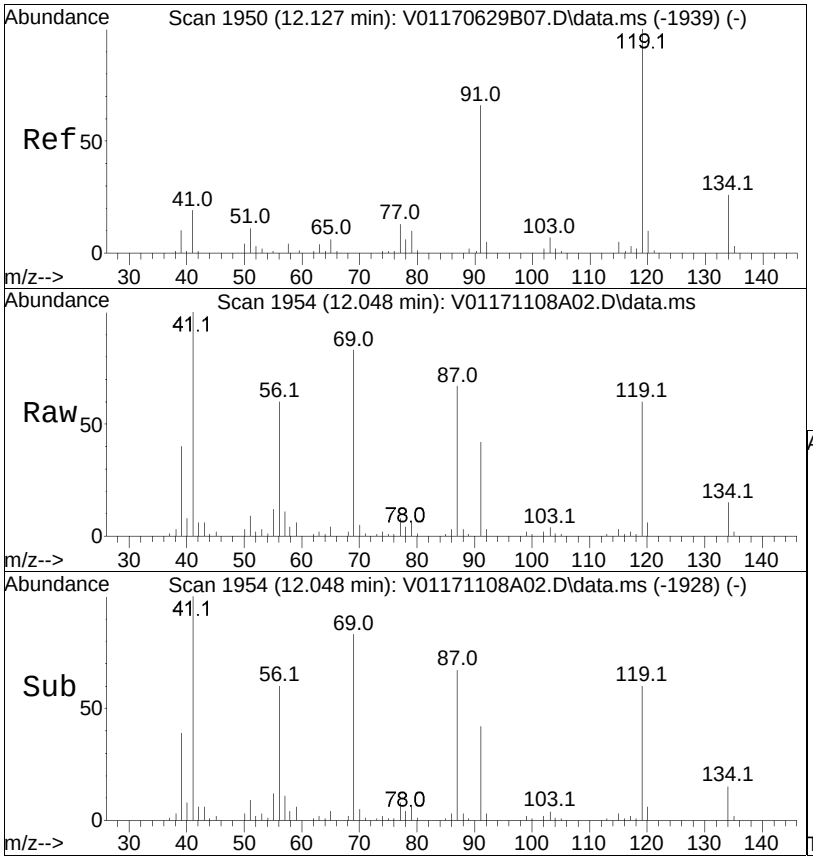


#93
4-Chlorotoluene
Concen: 9.32 ug/L
RT: 11.825 min Scan# 1913
Delta R.T. -0.001 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 91 Resp: 224357

Ion	Ratio	Lower	Upper
91	100		
126	32.8	23.7	35.5

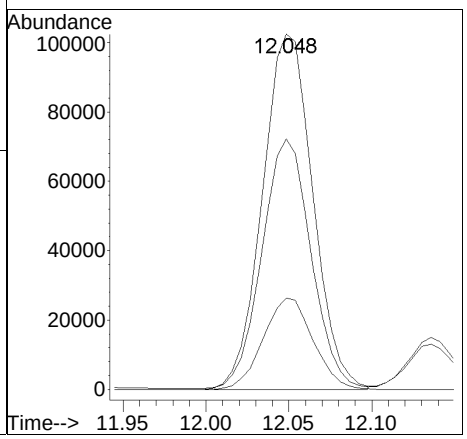


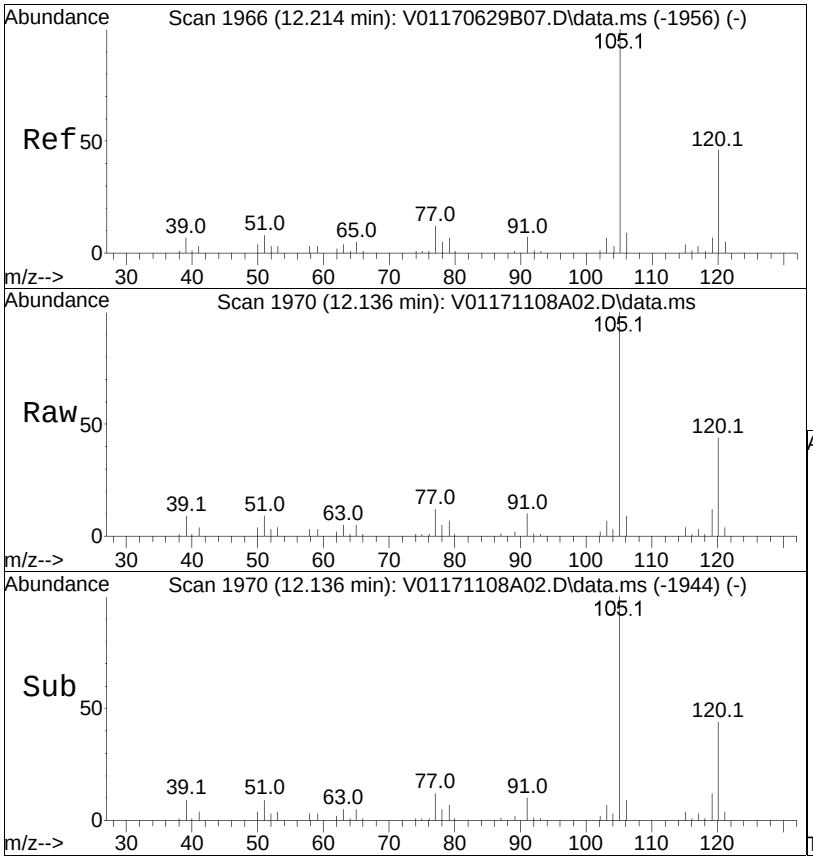


#94
tert-Butylbenzene
Concen: 9.17 ug/L
RT: 12.048 min Scan# 1954
Delta R.T. -0.008 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:119 Resp: 216777

Ion	Ratio	Lower	Upper
119	100		
91	68.4	60.2	90.4
134	25.3	19.9	29.9

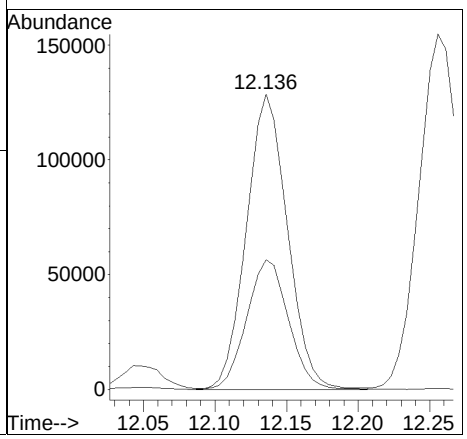


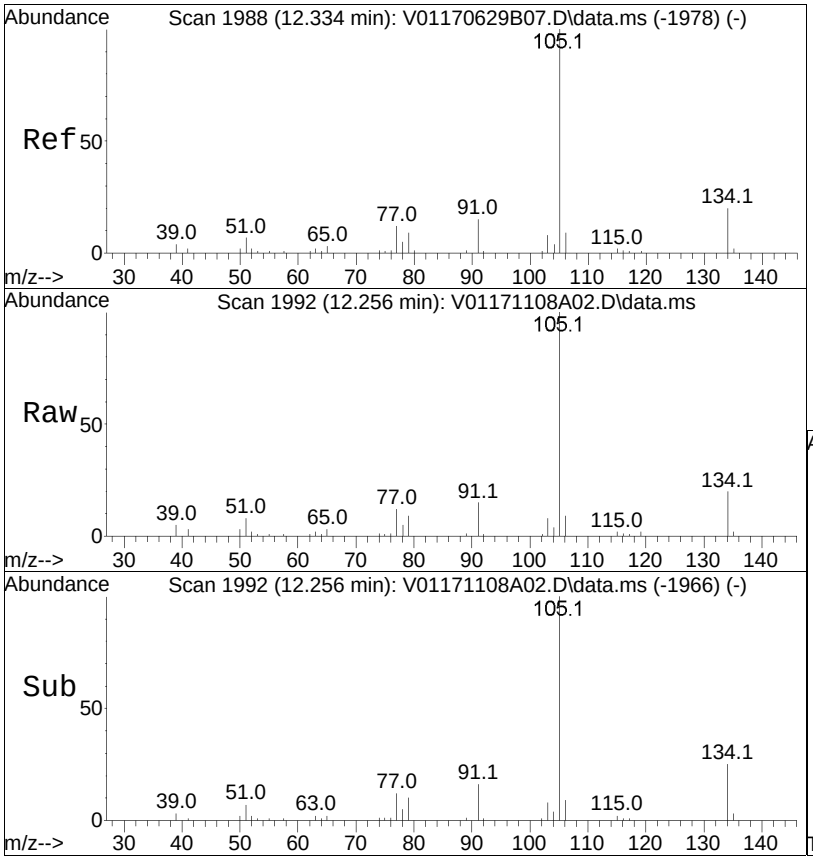


#97
1,2,4-Trimethylbenzene
Concen: 9.27 ug/L
RT: 12.136 min Scan# 1970
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:105 Resp: 256495

Ion	Ratio	Lower	Upper
105	100		
120	44.2	35.0	52.6

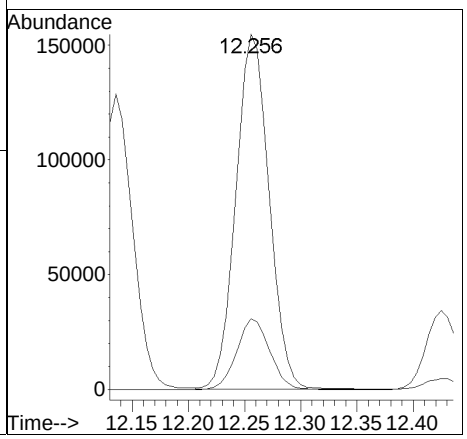


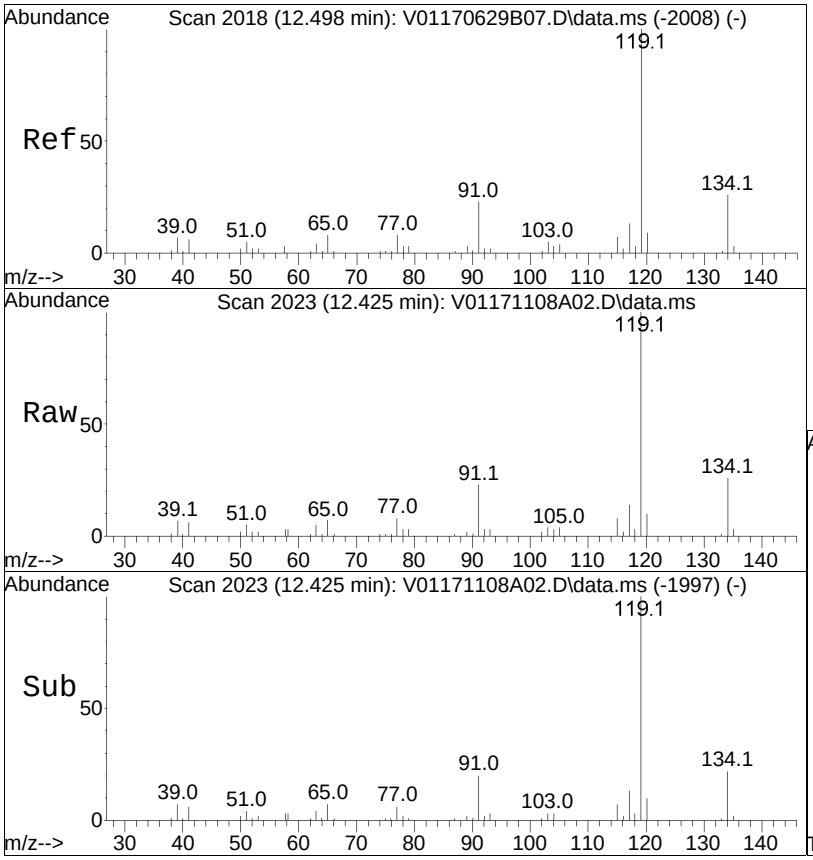


#98
sec-Butylbenzene
Concen: 9.51 ug/L
RT: 12.256 min Scan# 1992
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:105 Resp: 317169

Ion	Ratio	Lower	Upper
105	100		
134	19.7	12.5	26.1

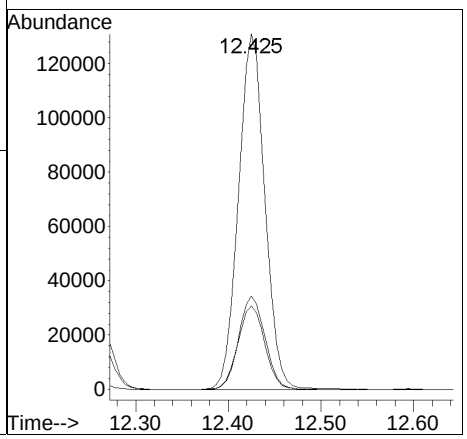


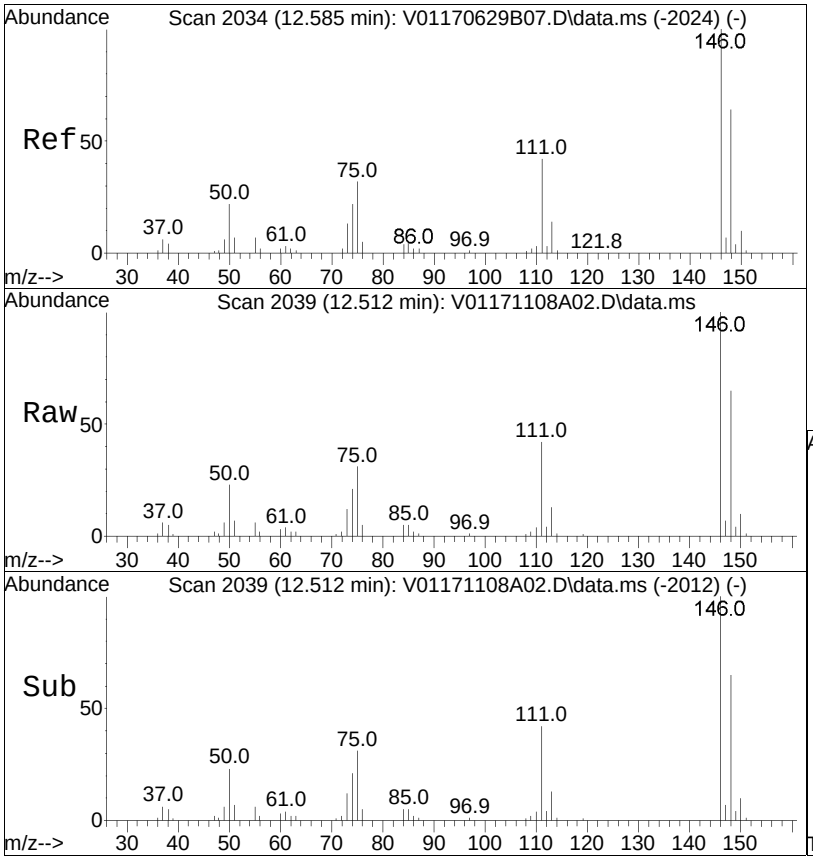


#99
p-Isopropyltoluene
Concen: 9.41 ug/L
RT: 12.425 min Scan# 2023
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:119 Resp: 259253

Ion	Ratio	Lower	Upper
119	100		
134	26.1	17.2	35.6
91	23.9	17.7	36.9

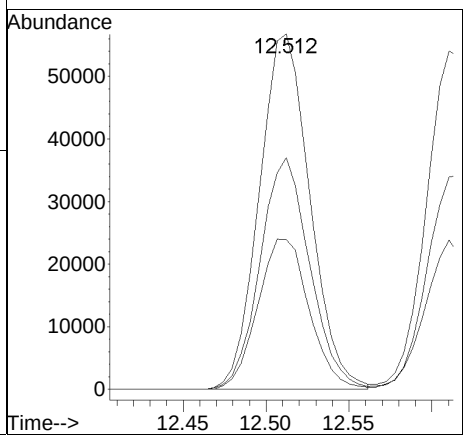


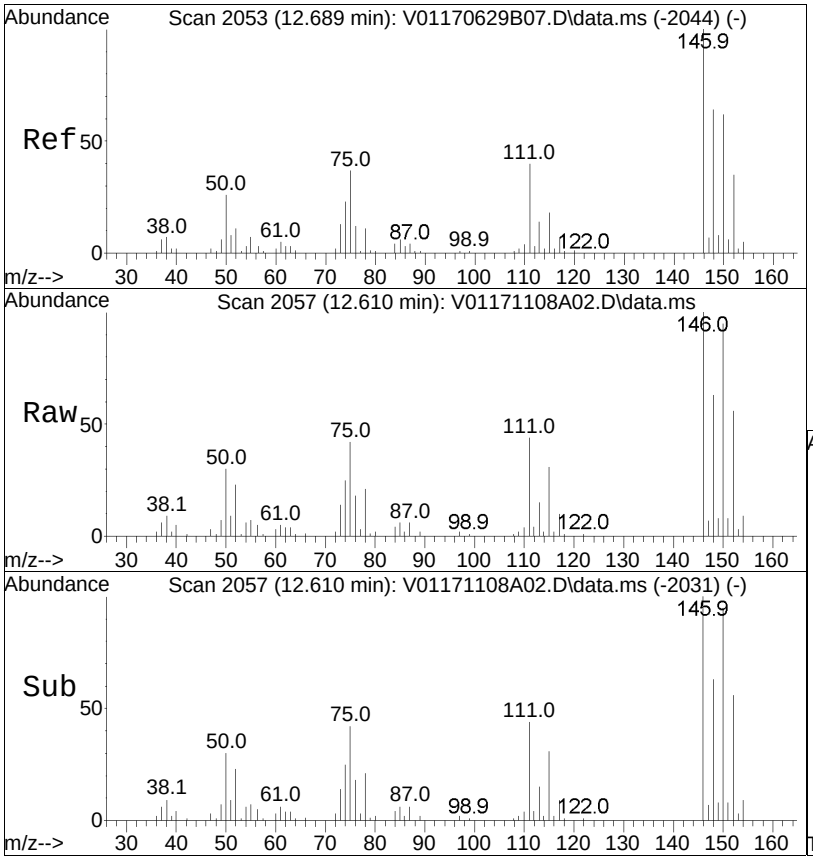


#100
1,3-Dichlorobenzene
Concen: 9.30 ug/L
RT: 12.512 min Scan# 2039
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:146 Resp: 120638

Ion	Ratio	Lower	Upper
146	100		
111	43.0	28.7	59.5
148	64.0	41.1	85.5

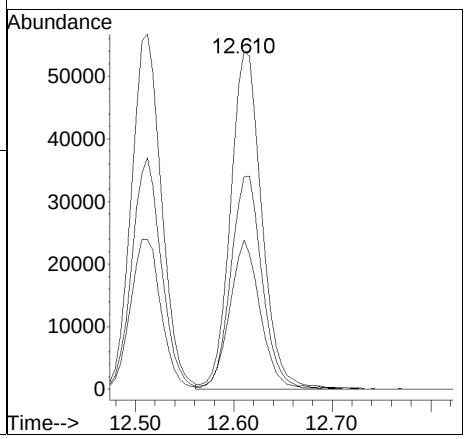


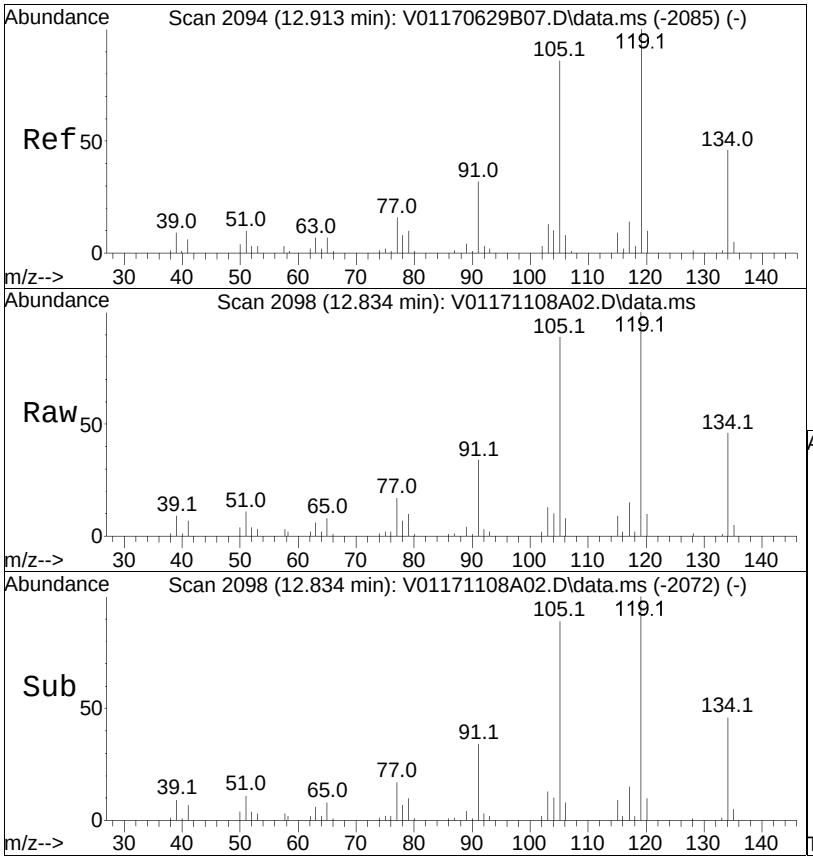


#101
1,4-Dichlorobenzene
Concen: 9.30 ug/L
RT: 12.610 min Scan# 2057
Delta R.T. -0.008 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:146 Resp: 119957

Ion	Ratio	Lower	Upper
146	100		
111	43.2	35.0	52.4
148	63.5	51.0	76.6

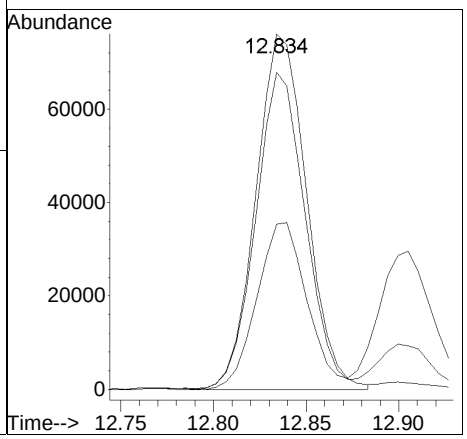


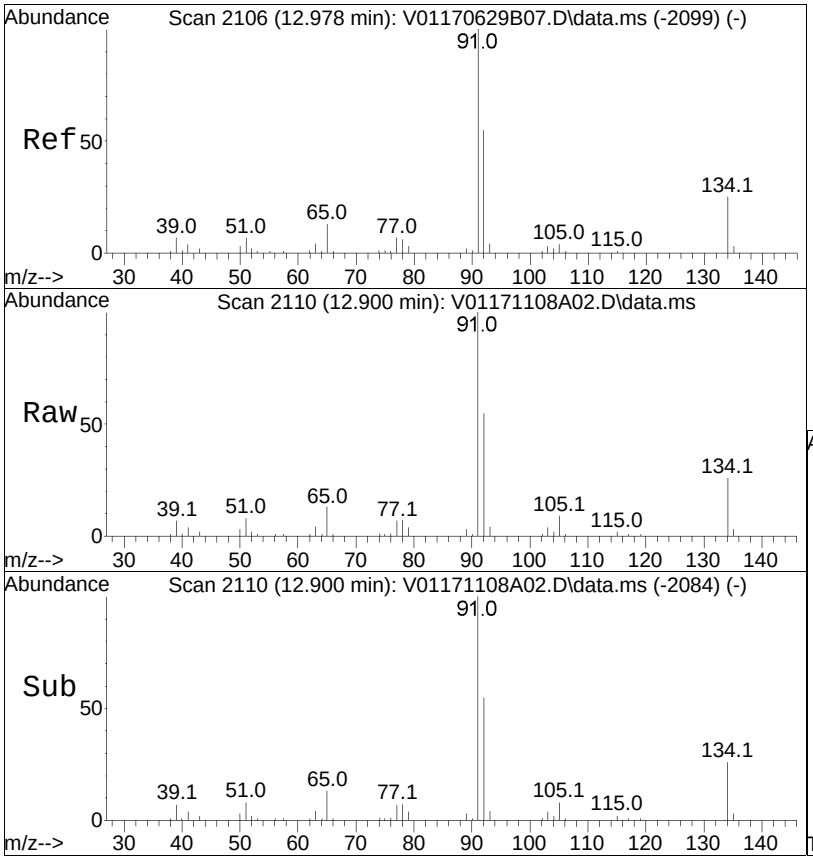


#102
p-Diethylbenzene
Concen: 9.52 ug/L
RT: 12.834 min Scan# 2098
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:119 Resp: 144553

Ion	Ratio	Lower	Upper
119	100		
105	86.4	57.7	119.9
134	46.5	30.0	62.2

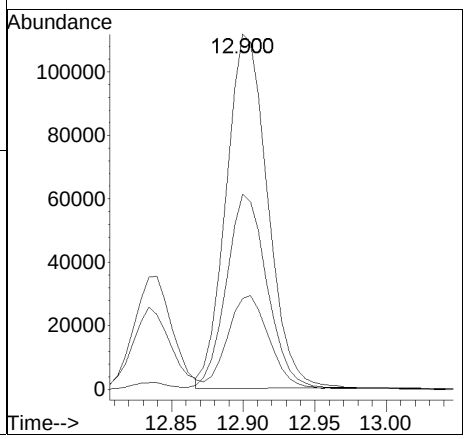


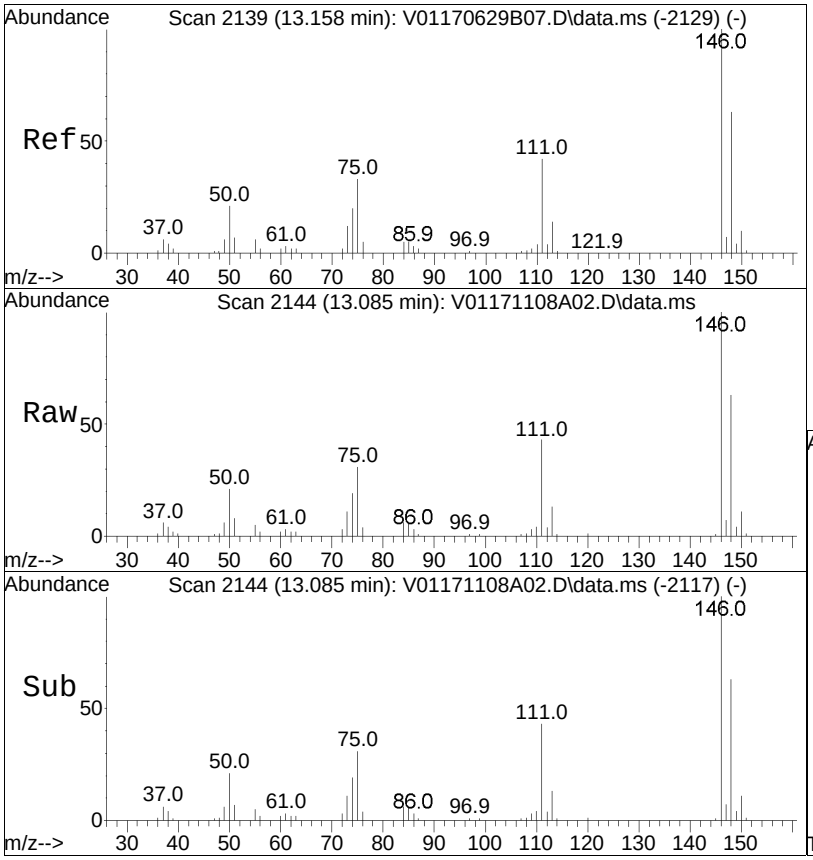


#103
n-Butylbenzene
Concen: 9.56 ug/L
RT: 12.900 min Scan# 2110
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion: 91 Resp: 224492

Ion	Ratio	Lower	Upper
91	100		
92	55.1	43.4	65.0
134	26.3	19.0	28.4

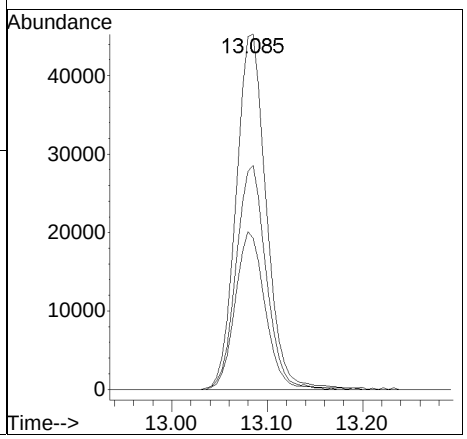


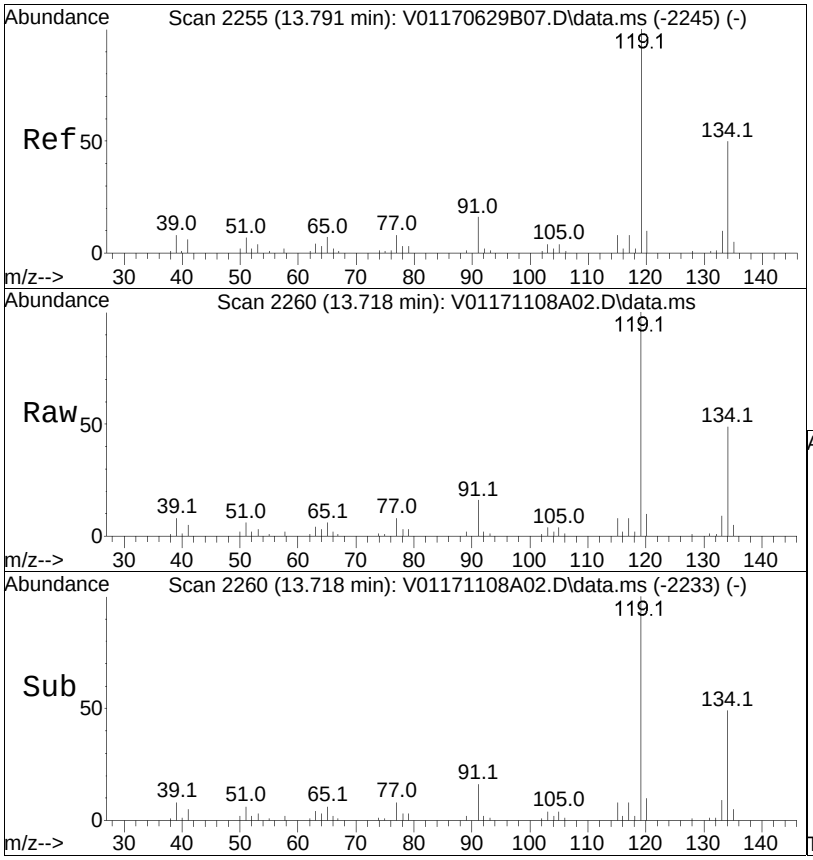


#104
1,2-Dichlorobenzene
Concen: 9.22 ug/L
RT: 13.085 min Scan# 2144
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:146 Resp: 99663

Ion	Ratio	Lower	Upper
146	100		
111	44.0	29.1	60.3
148	62.8	40.8	84.8

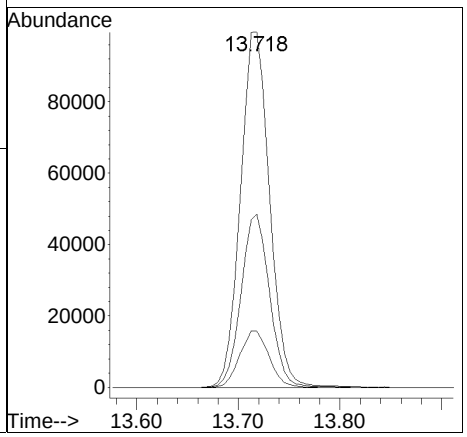


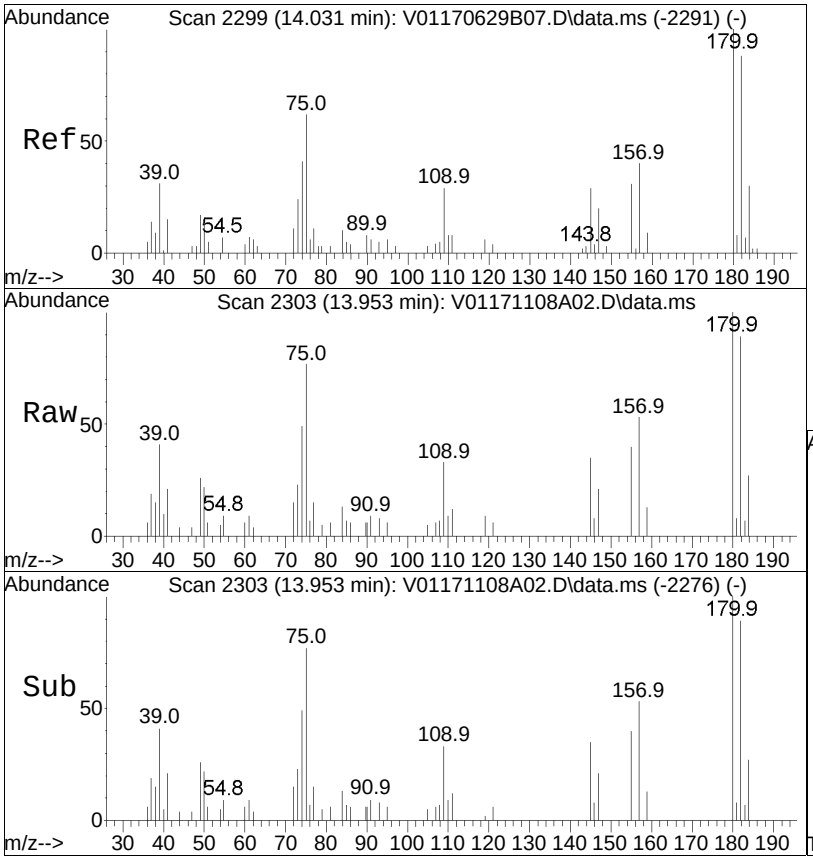


#105
1,2,4,5-Tetramethylbenzene
Concen: 9.40 ug/L
RT: 13.718 min Scan# 2260
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:119 Resp: 198614

Ion	Ratio	Lower	Upper
119	100		
134	47.7	29.3	60.9
91	16.0	11.8	24.4

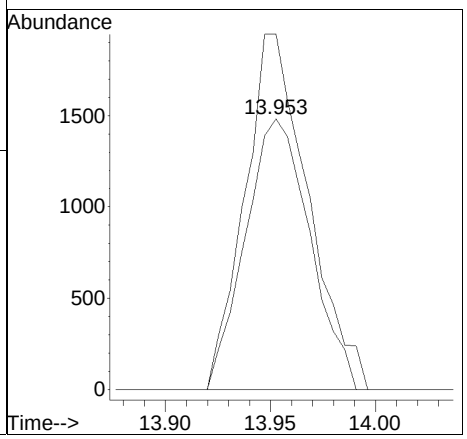


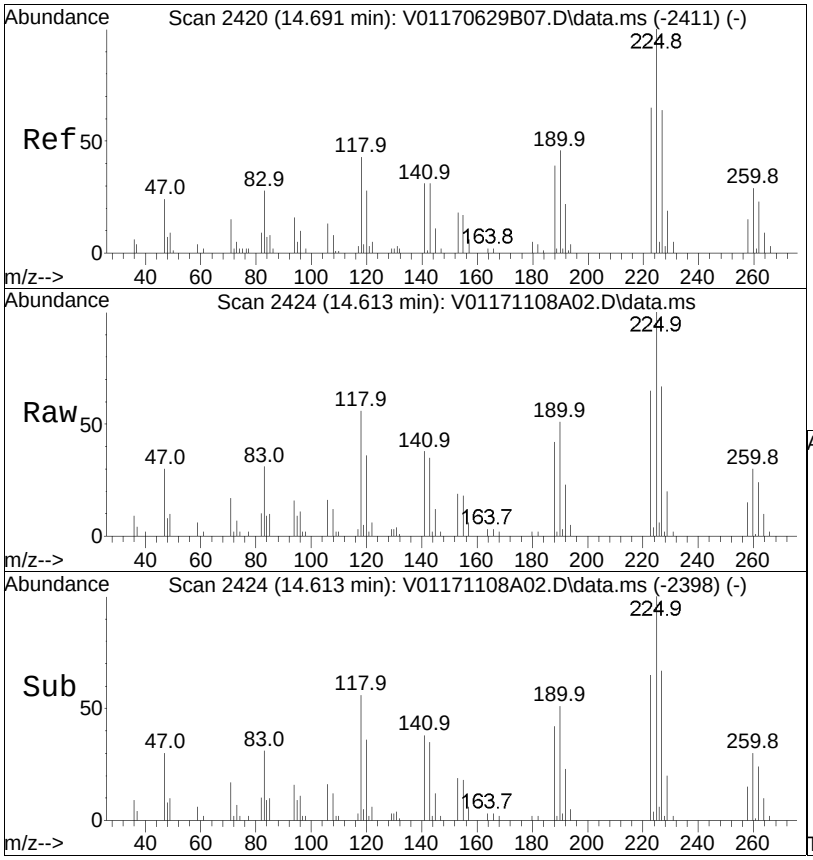


#106
1,2-Dibromo-3-chloropropane
Concen: 7.78 ug/L
RT: 13.953 min Scan# 2303
Delta R.T. -0.001 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:155 Resp: 3174

Ion	Ratio	Lower	Upper
155	100		
157	129.1	99.2	148.8

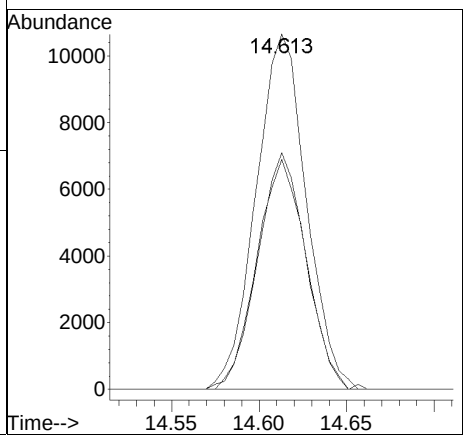


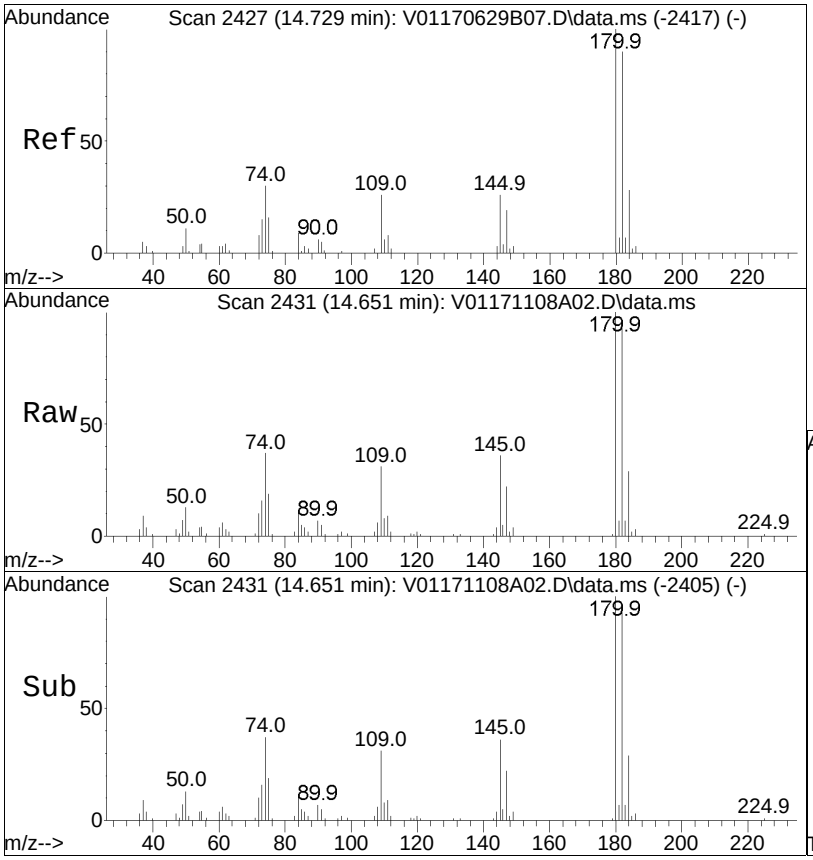


#108
Hexachlorobutadiene
Concen: 9.46 ug/L
RT: 14.613 min Scan# 2424
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:225 Resp: 21312

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.7	76.1
227	64.1	53.5	80.3

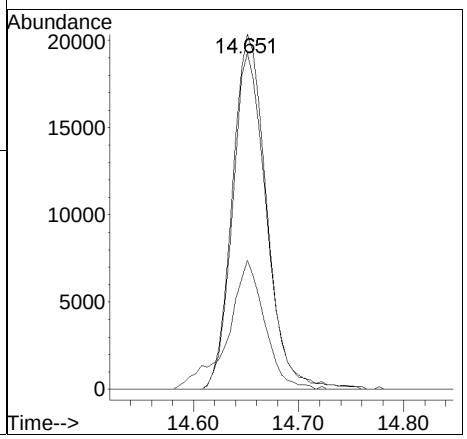


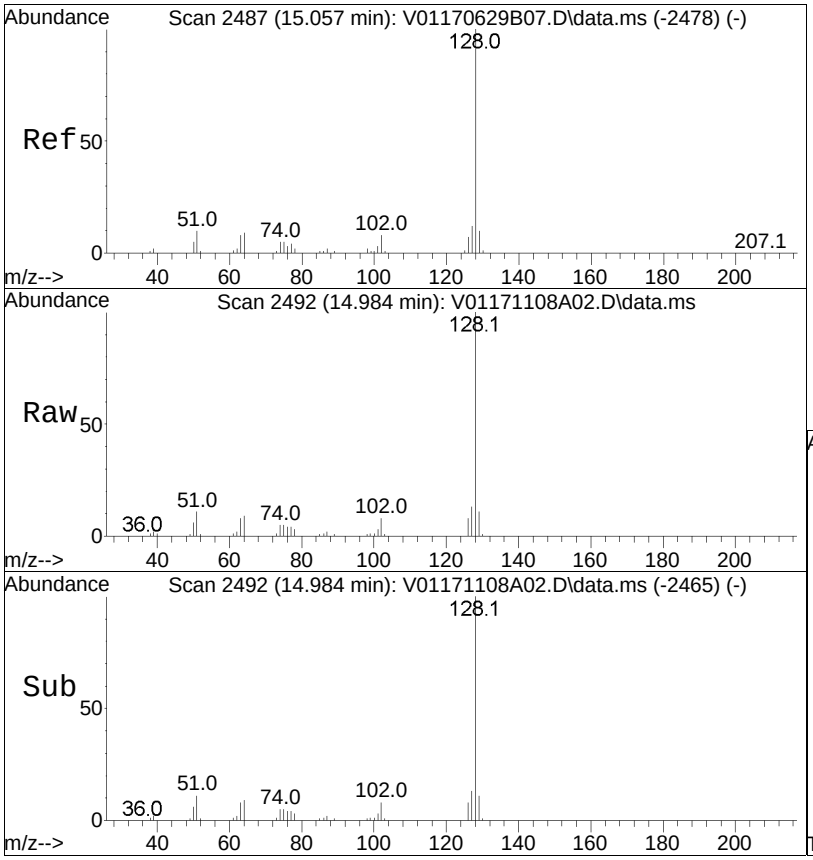


#109
1,2,4-Trichlorobenzene
Concen: 9.14 ug/L
RT: 14.651 min Scan# 2431
Delta R.T. -0.007 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:180 Resp: 46187

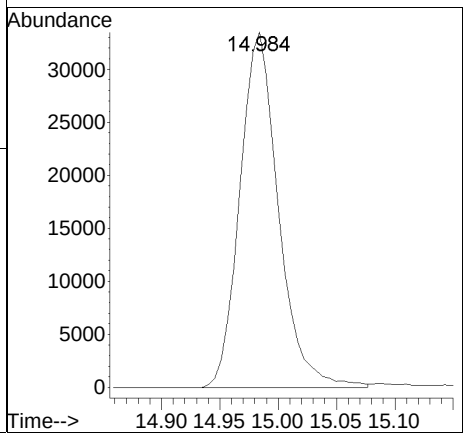
Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.0	112.4
145	39.2	28.5	42.7

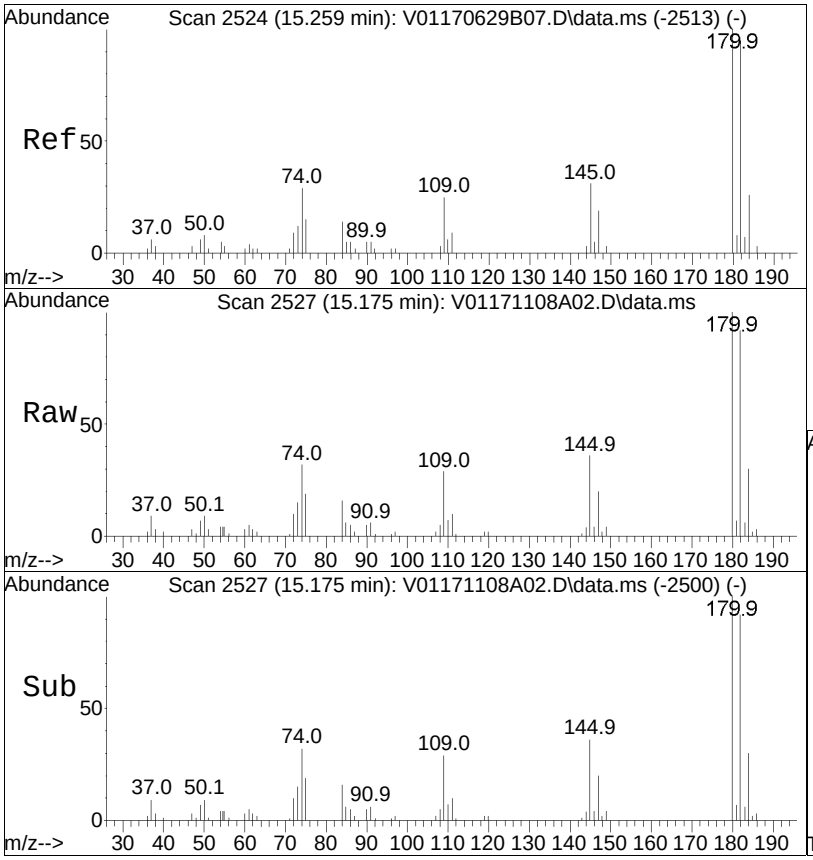




#110
Naphthalene
Concen: 8.97 ug/L
RT: 14.984 min Scan# 2492
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:128 Resp: 77066

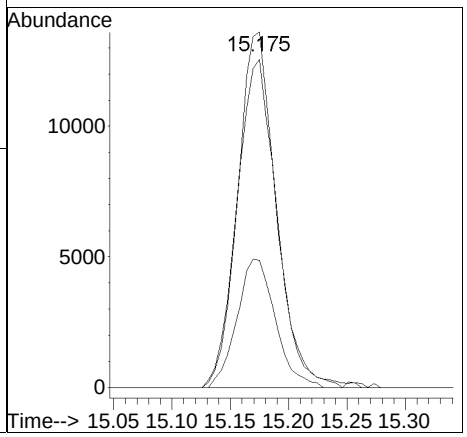




#111
1,2,3-Trichlorobenzene
Concen: 9.23 ug/L
RT: 15.175 min Scan# 2527
Delta R.T. -0.002 min
Lab File: V01171108A02.D
Acq: 8 Nov 2017 8:38 am

Tgt Ion:180 Resp: 31632

Ion	Ratio	Lower	Upper
180	100		
182	93.3	73.3	109.9
145	35.6	26.2	39.4

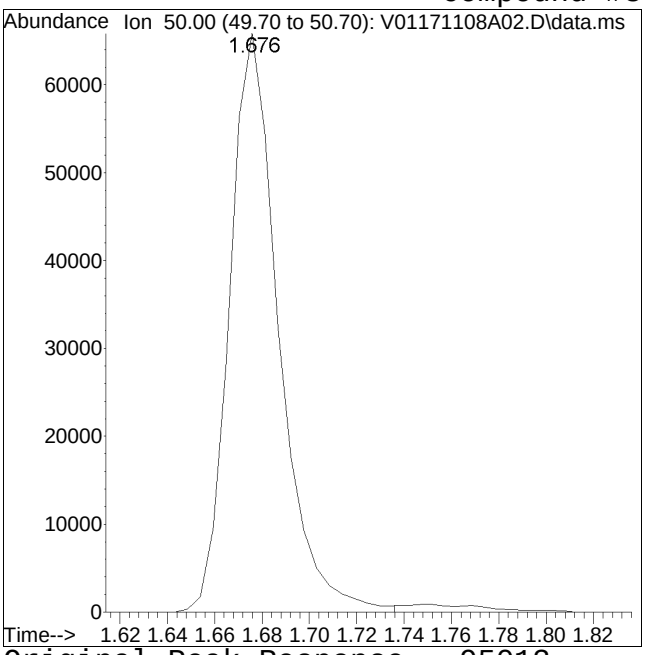


Manual Integration Report

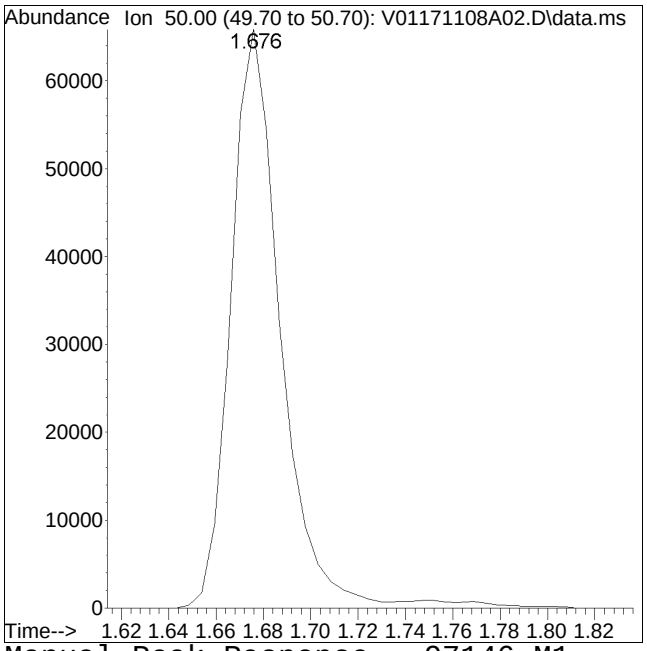
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A02.D
Date Inj'd : 11/8/2017 8:38 am
Sample : WG1060957-4,31,10,10

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 9:07 am

Compound #3: Chloromethane



Original Peak Response = 95013



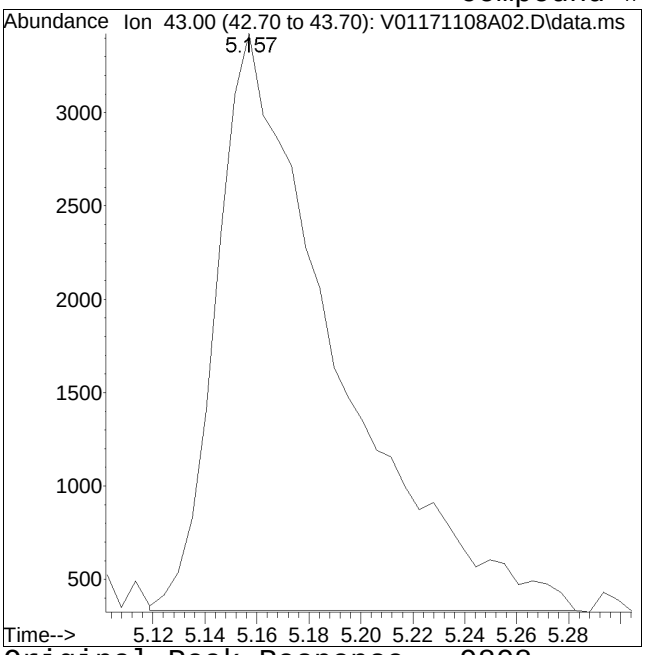
Manual Peak Response = 97146 M1

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

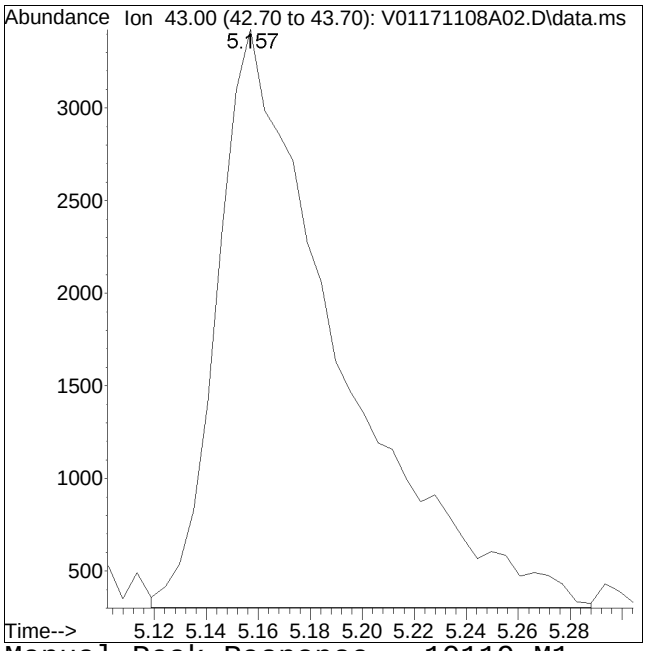
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A02.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:38 am Instrument : VOA 101
Sample : WG1060957-4,31,10,10 Quant Date : 11/8/2017 9:07 am

Compound #39: 2-Butanone



Original Peak Response = 9808



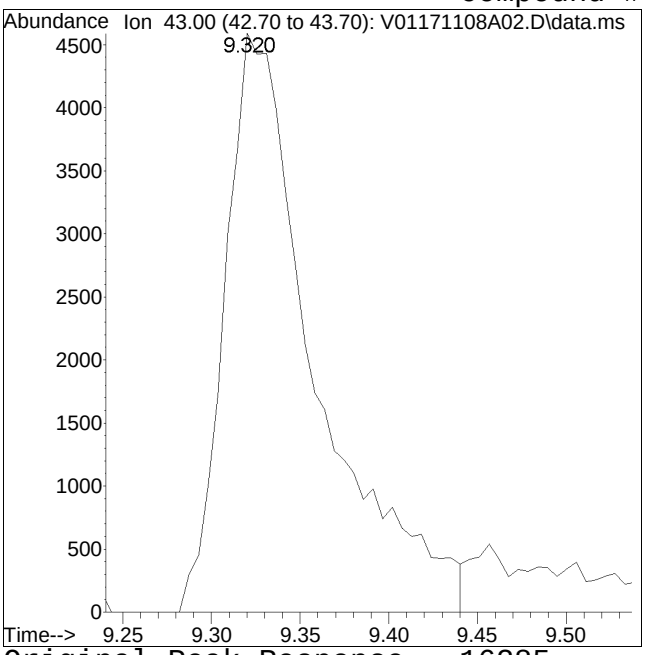
Manual Peak Response = 10119 M1

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

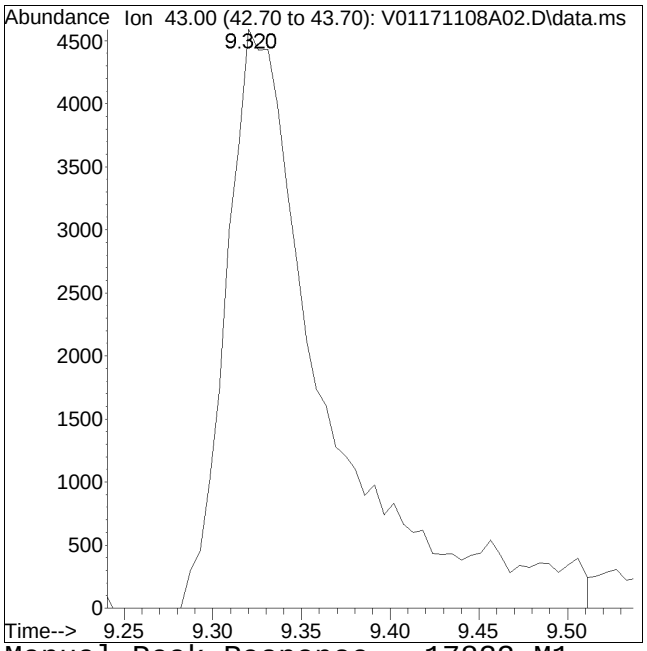
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A02.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:38 am Instrument : VOA 101
Sample : WG1060957-4,31,10,10 Quant Date : 11/8/2017 9:07 am

Compound #72: 2-Hexanone



Original Peak Response = 16285



Manual Peak Response = 17833 M1

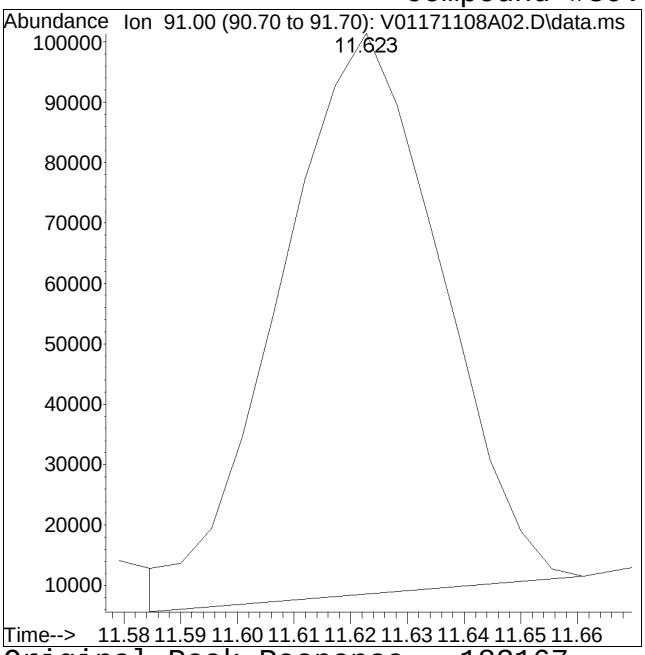
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

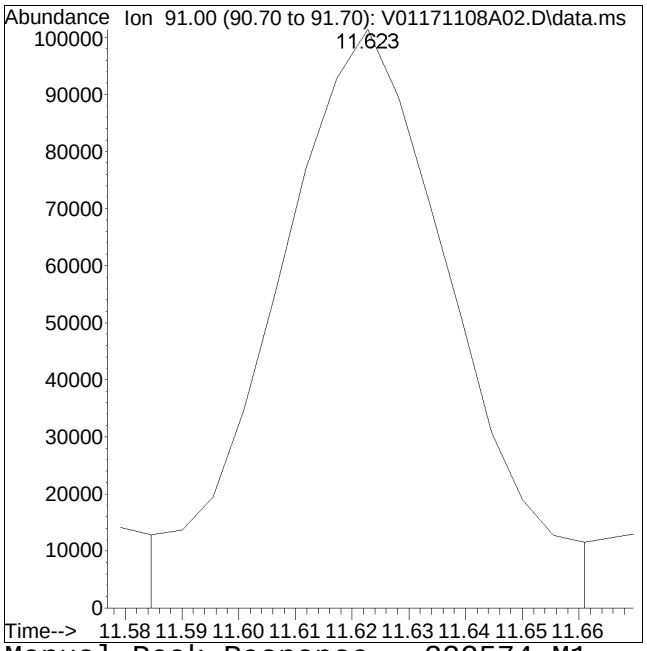
Data Path : I:\VOLATILES\VOA101\2017\1Q
Data File : V01171108A02.D
Date Inj'd : 11/8/2017 8:38 am
Sample : WG1060957-4,31,10,10

Method : V101_170928_8260.m
Operator : VOA101:PD
Instrument : VOA 101
Quant Date : 11/8/2017 9:07 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 183167



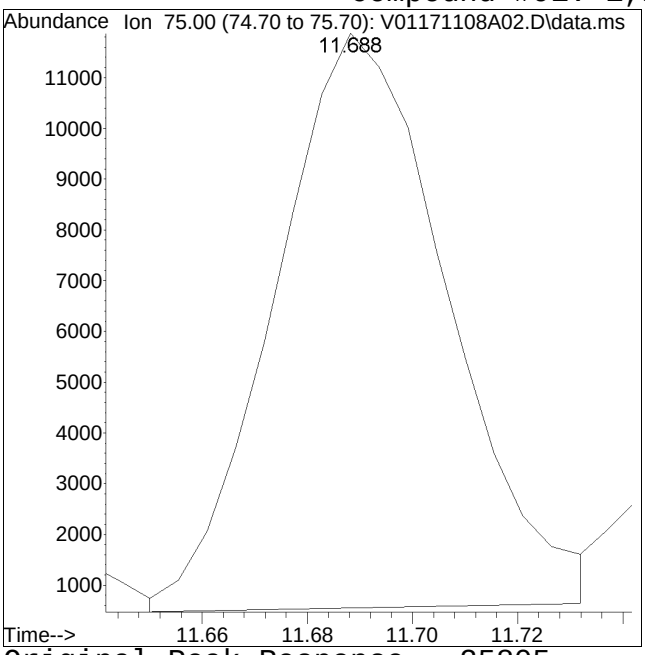
Manual Peak Response = 222574 M1

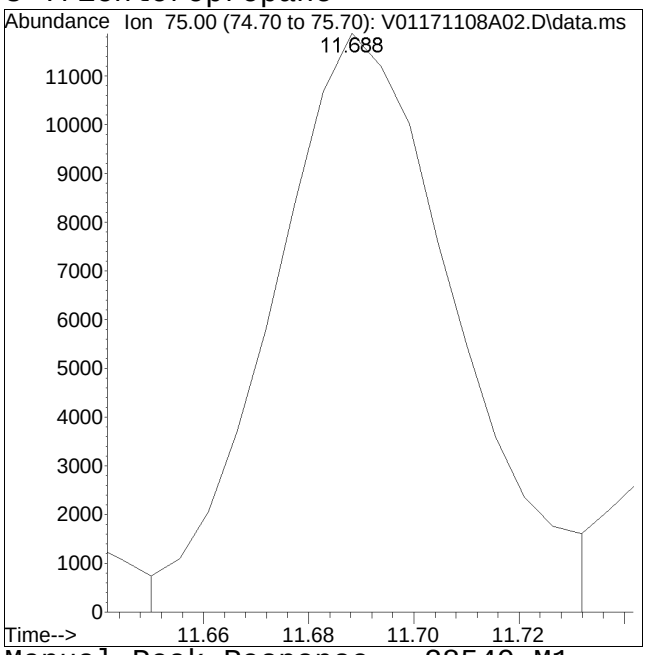
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2017\1QMethod : V101_170928_8260.m
Data File : V01171108A02.D Operator : VOA101:PD
Date Inj'd : 11/8/2017 8:38 am Instrument : VOA 101
Sample : WG1060957-4,31,10,10 Quant Date : 11/8/2017 9:07 am

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 25805 Manual Peak Response = 28540 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A20.D
Acq On : 08 Nov 2017 04:24 pm
Operator : VOA122:MKS
Sample : WG1060967-6,31,10,10,,a1 (Sig #1); l1739725-01MS,31,10,10,,a1 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 08 17:28:37 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	238426	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery = 88.61%			
62) Chlorobenzene-d5	9.646	117	183934	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery = 87.55%			
83) 1,4-Dichlorobenzene-d4	12.341	152	94581	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery = 88.32%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.266	113	59098	9.591	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.91%			
46) 1,2-Dichloroethane-d4	5.802	65	62089	10.886	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.86%			
63) Toluene-d8	7.790	98	240251	10.866	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.66%			
87) 4-Bromofluorobenzene	11.133	95	87537	10.714	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.629	85	58779	12.308	ug/L	98
3) Chloromethane	1.827	50	54148	9.953	ug/L	100
4) Vinyl chloride	1.894	62	83232	12.224	ug/L	99
5) Bromomethane	2.216	94	15880	3.562	ug/L	96
6) Chloroethane	2.348	64	56321	13.752	ug/L	98
7) Trichlorofluoromethane	2.490	101	100381	10.704	ug/L	99
8) Ethyl ether	2.794	74	25087	8.618	ug/L #	1
10) 1,1-Dichloroethene	2.992	96	54576	9.427	ug/L	86
11) Carbon disulfide	3.011	76	141884	9.541	ug/L	100
15) Methylene chloride	3.551	84	57849	9.377	ug/L	87
17) Acetone	3.599	43	8138	10.921	ug/L	100
18) trans-1,2-Dichloroethene	3.703	96	62632	9.365	ug/L	93
21) Methyl tert-butyl ether	3.807	73	123472	8.633	ug/L	94
25) 1,1-Dichloroethane	4.299	63	112867	10.672	ug/L	98
27) Acrylonitrile	4.347	53	10508	9.934	ug/L	95
29) Vinyl acetate	4.546	43	92597	9.510	ug/L #	93
30) cis-1,2-Dichloroethene	4.820	96	67248	9.373	ug/L	91
31) 2,2-Dichloropropane	4.934	77	84889	9.279	ug/L	91
32) Bromochloromethane	5.010	128	28349	9.386	ug/L #	87

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A20.D
Acq On : 08 Nov 2017 04:24 pm
Operator : VOA122:MKS
Sample : WG1060967-6,31,10,10,,a1 (Sig #1); l1739725-01MS,31,10,10,,a1 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 08 17:28:37 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Chloroform	5.086	83	111132	10.111	ug/L		97
36) Carbon tetrachloride	5.228	117	91787	10.580	ug/L		99
39) 1,1,1-Trichloroethane	5.294	97	104899	10.041	ug/L		97
41) 2-Butanone	5.398	43	11216	10.298	ug/L		97
42) 1,1-Dichloropropene	5.417	75	85148	9.869	ug/L		98
44) Benzene	5.668	78	269040	10.433	ug/L		94
47) 1,2-Dichloroethane	5.864	62	69714	10.416	ug/L		98
51) Trichloroethene	6.256	95	75618	11.349	ug/L		97
53) Dibromomethane	6.700	93	29476	11.876	ug/L	#	83
54) 1,2-Dichloropropane	6.813	63	58813	10.508	ug/L		99
57) Bromodichloromethane	6.875	83	78816	9.432	ug/L		99
60) 1,4-Dioxane	7.102	88	1848	183.760	ug/L	#	84
61) cis-1,3-Dichloropropene	7.582	75	82894	8.621	ug/L		92
64) Toluene	7.856	92	156592	10.478	ug/L		100
65) 4-Methyl-2-pentanone	8.301	58	10956	10.026	ug/L	#	90
66) Tetrachloroethene	8.292	166	952523	123.188	ug/L		93
68) trans-1,3-Dichloropropene	8.330	75	69762	9.442	ug/L		93
71) 1,1,2-Trichloroethane	8.519	83	35870	10.147	ug/L		96
72) Chlorodibromomethane	8.728	129	51913	9.310	ug/L		99
73) 1,3-Dichloropropane	8.851	76	72019	10.042	ug/L		99
74) 1,2-Dibromoethane	9.012	107	40021	8.931	ug/L		100
76) 2-Hexanone	9.315	43	16314	10.272	ug/L		92
77) Chlorobenzene	9.665	112	172284	9.911	ug/L		97
78) Ethylbenzene	9.712	91	301956	10.280	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.750	131	60422	9.968	ug/L		97
80) p/m Xylene	9.902	106	239347	20.343	ug/L		98
81) o Xylene	10.442	106	257210	23.825	ug/L		88
82) Styrene	10.517	104	122975	7.060	ug/L		92
84) Bromoform	10.517	173	21706	5.983	ug/L		100
86) Isopropylbenzene	10.820	105	320582	10.850	ug/L		98
88) Bromobenzene	11.247	156	67660	9.463	ug/L		100
89) n-Propylbenzene	11.294	91	375186	11.154	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.370	83	44993	10.257	ug/L		100
92) 4-Ethyltoluene	11.427	105	300433	11.086	ug/L		100
93) 2-Chlorotoluene	11.455	91	246255	11.334	ug/L		97
94) 1,3,5-Trimethylbenzene	11.521	105	254384	10.990	ug/L		99
95) 1,2,3-Trichloropropane	11.521	75	37310	10.597	ug/L		98
96) trans-1,4-Dichloro-2-b...	11.569	53	7719	6.982	ug/L		81

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A20.D
Acq On : 08 Nov 2017 04:24 pm
Operator : VOA122:MKS
Sample : WG1060967-6,31,10,10,,a1 (Sig #1); l1739725-01MS,31,10,10,,a1 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 08 17:28:37 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 4-Chlorotoluene	11.645	91	220759	11.154	ug/L	98
98) tert-Butylbenzene	11.863	119	274853	12.955	ug/L	91
101) 1,2,4-Trimethylbenzene	11.936	105	305153	13.168	ug/L	99
102) sec-Butylbenzene	12.048	105	331706	11.043	ug/L	98
103) p-Isopropyltoluene	12.203	119	283572	10.878	ug/L	98
104) 1,3-Dichlorobenzene	12.264	146	142045	10.259	ug/L	97
105) 1,4-Dichlorobenzene	12.358	146	139276	10.183	ug/L	96
106) p-Diethylbenzene	12.574	119	160667	10.626	ug/L	98
107) n-Butylbenzene	12.635	91	260683	11.444	ug/L	98
108) 1,2-Dichlorobenzene	12.781	146	122836	9.875	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.368	119	206216	9.231	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.558	155	5482	7.566	ug/L	99
112) Hexachlorobutadiene	14.162	225	29702	6.371	ug/L	98
113) 1,2,4-Trichlorobenzene	14.188	180	70900	7.742	ug/L	97
114) Naphthalene	14.490	128	135994	8.406	ug/L	100
115) 1,2,3-Trichlorobenzene	14.653	180	61293	7.434	ug/L	98

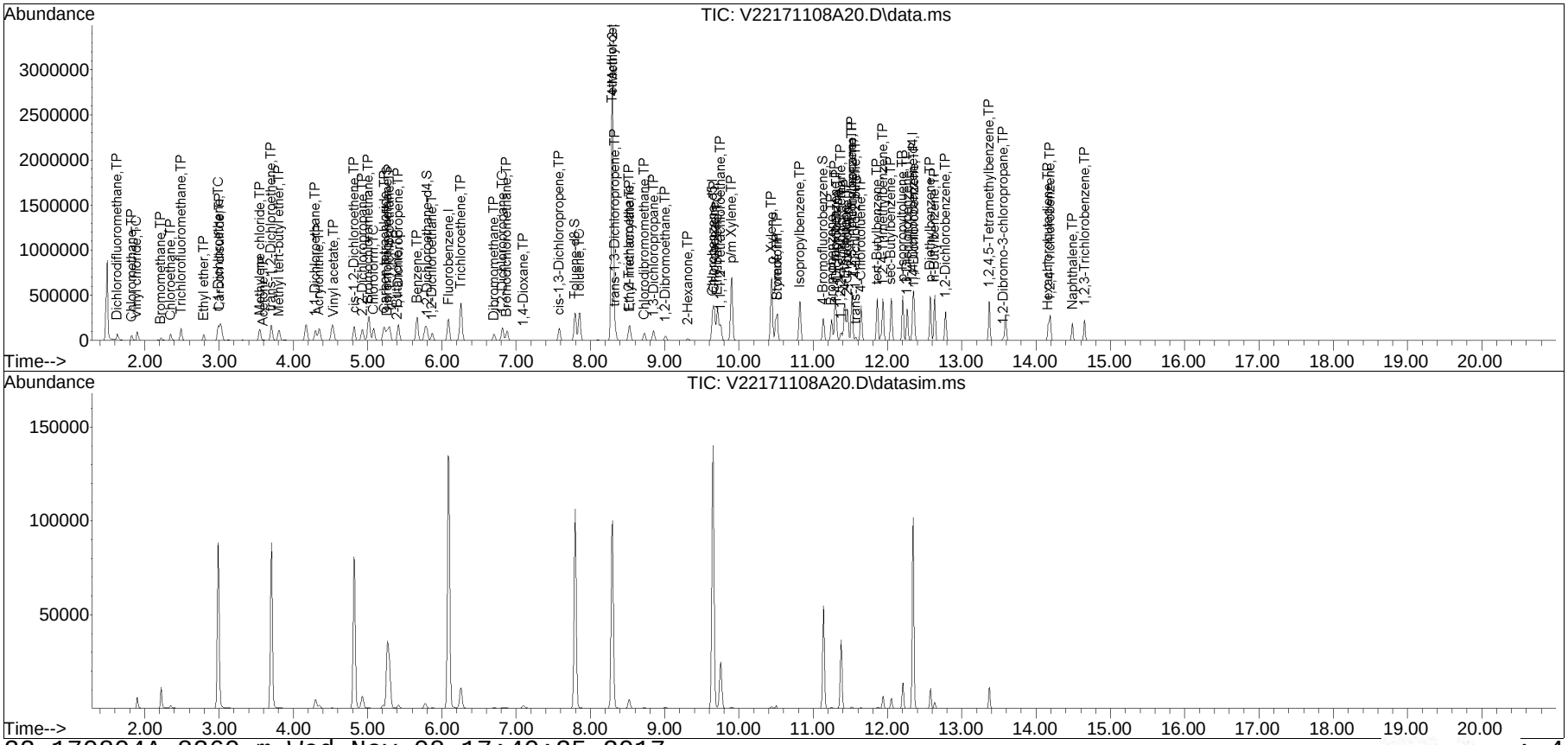
(#) = qualifier out of range (m) = manual integration (+) = signals summed

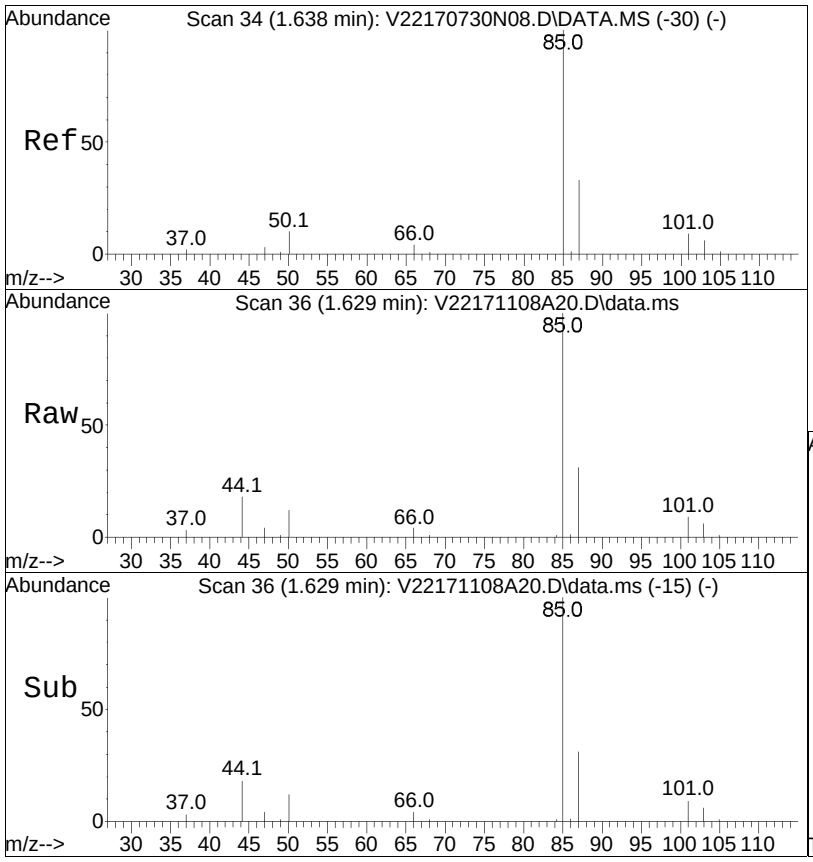
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A20.D
Acq On : 08 Nov 2017 04:24 pm
Operator : VOA122:MKS
Sample : WG1060967-6,31,10,10,,a1 (Sig #1); l1739725-01MS,31,10,10,,a1 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 08 17:28:37 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V22171108A02.D•

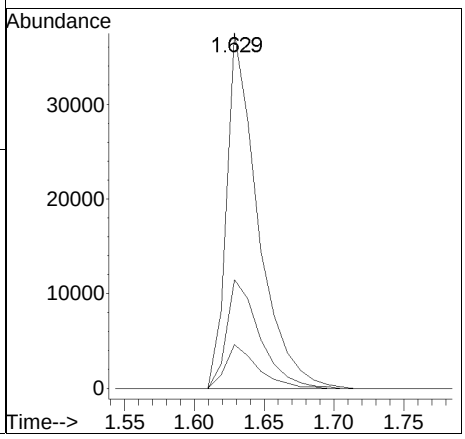


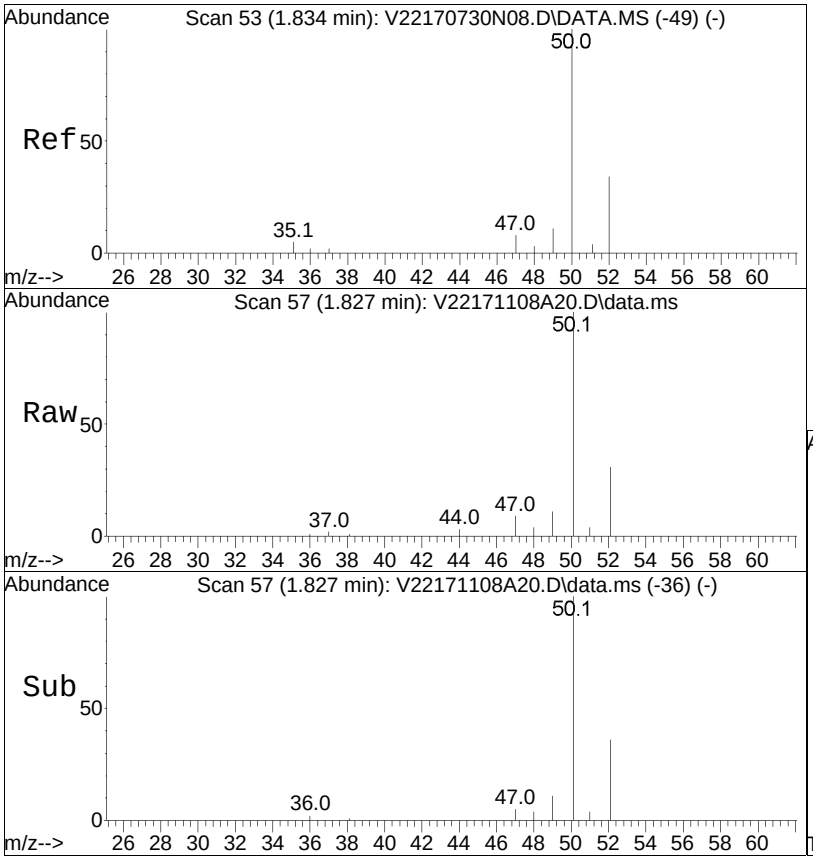


#2
Dichlorodifluoromethane
Concen: 12.31 ug/L
RT: 1.629 min Scan# 36
Delta R.T. 0.001 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 85 Resp: 58779

Ion	Ratio	Lower	Upper
85	100		
87	32.4	20.7	42.9
50	12.7	6.8	14.2

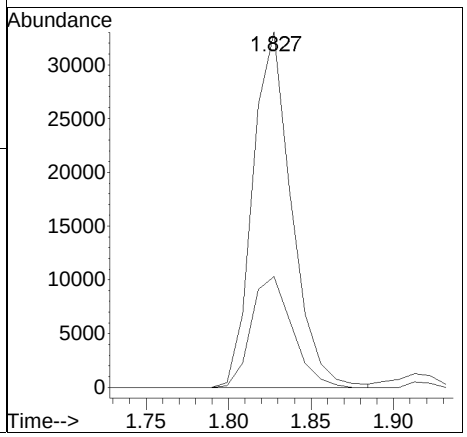


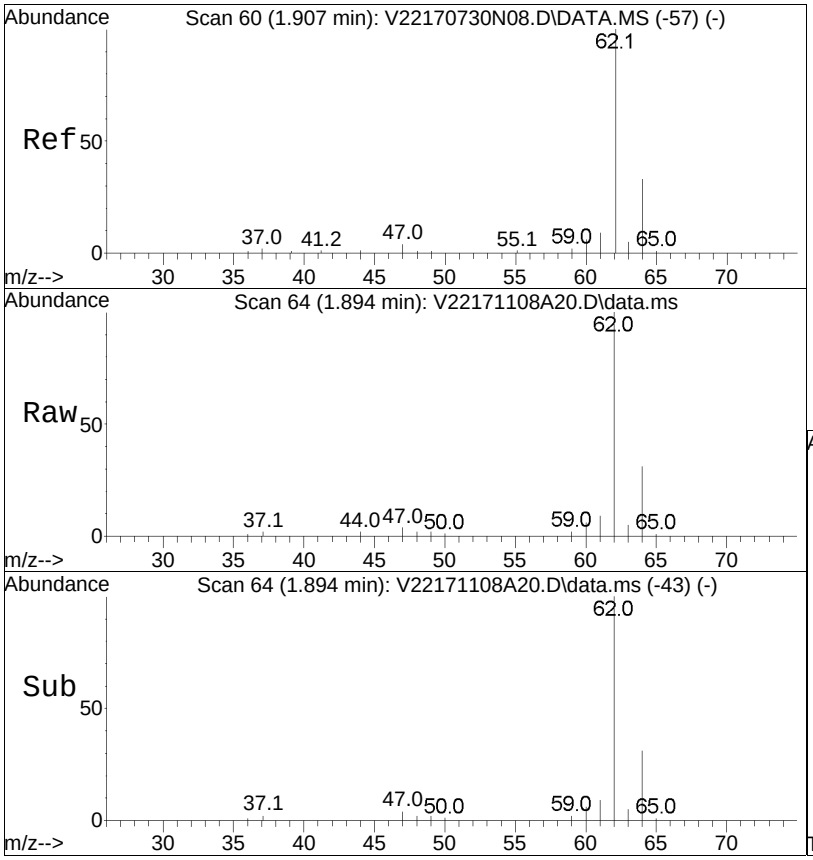


#3
Chloromethane
Concen: 9.95 ug/L
RT: 1.827 min Scan# 57
Delta R.T. 0.003 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 50 Resp: 54148

Ion	Ratio	Lower	Upper
50	100		
52	32.9	12.8	52.8

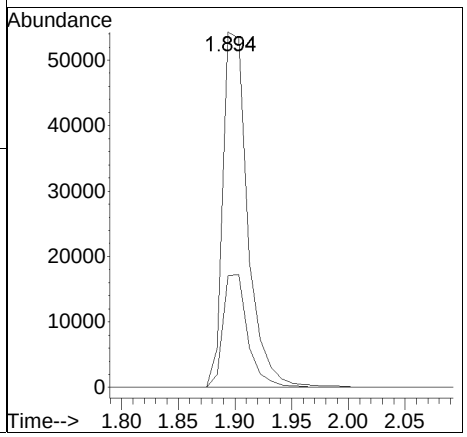


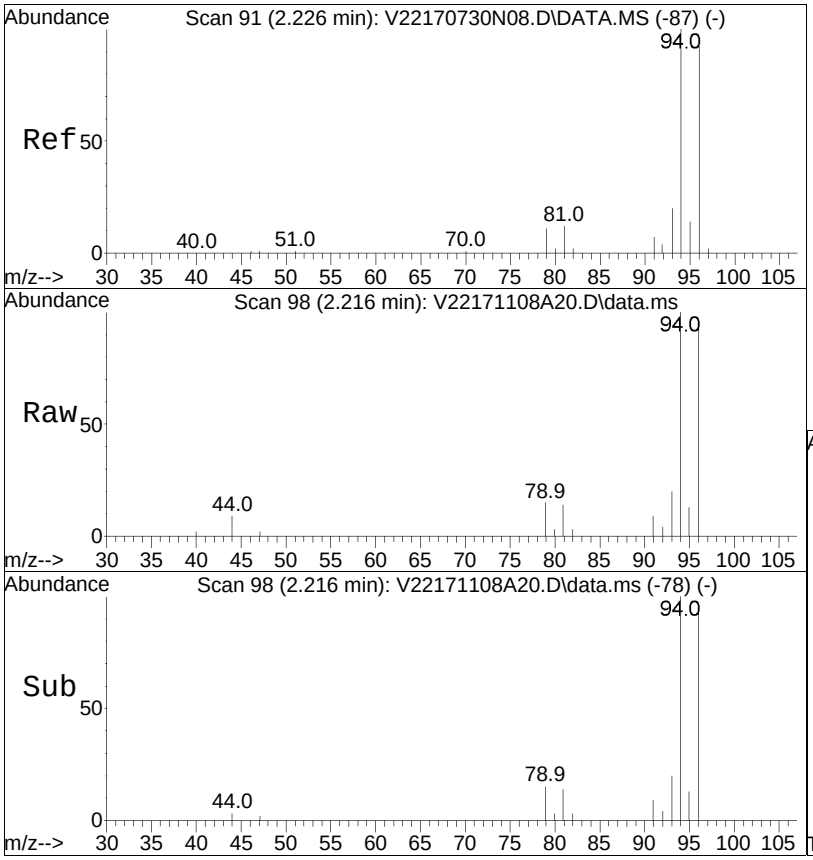


#4
Vinyl chloride
Concen: 12.22 ug/L
RT: 1.894 min Scan# 64
Delta R.T. -0.002 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 62 Resp: 83232

Ion	Ratio	Lower	Upper
62	100		
64	31.5	12.0	52.0

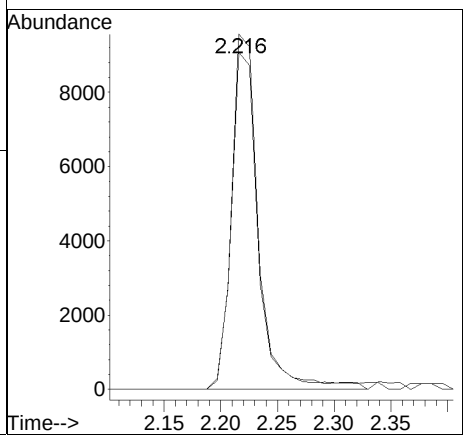


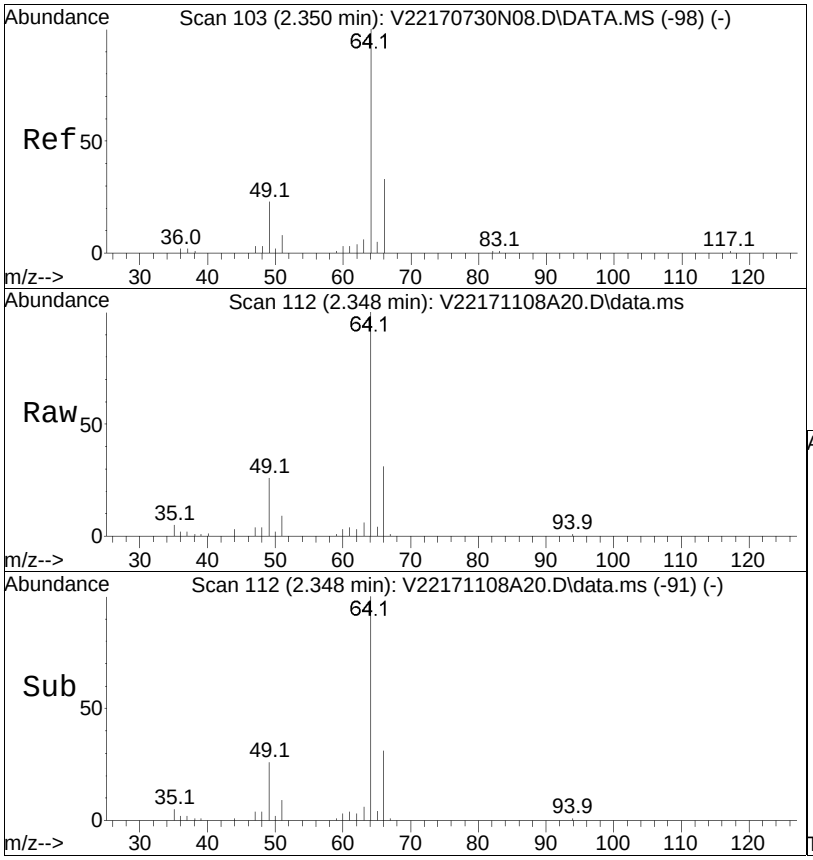


#5
Bromomethane
Concen: 3.56 ug/L
RT: 2.216 min Scan# 98
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 94 Resp: 15880

Ion	Ratio	Lower	Upper
94	100		
96	96.2	72.8	112.8

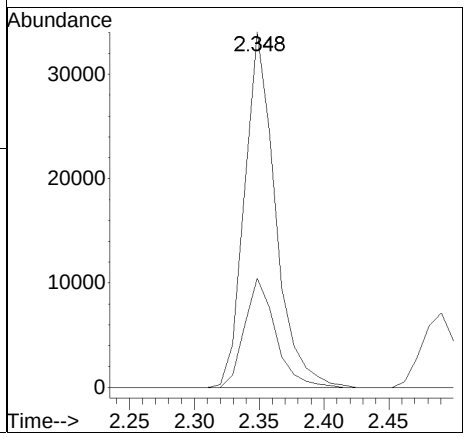


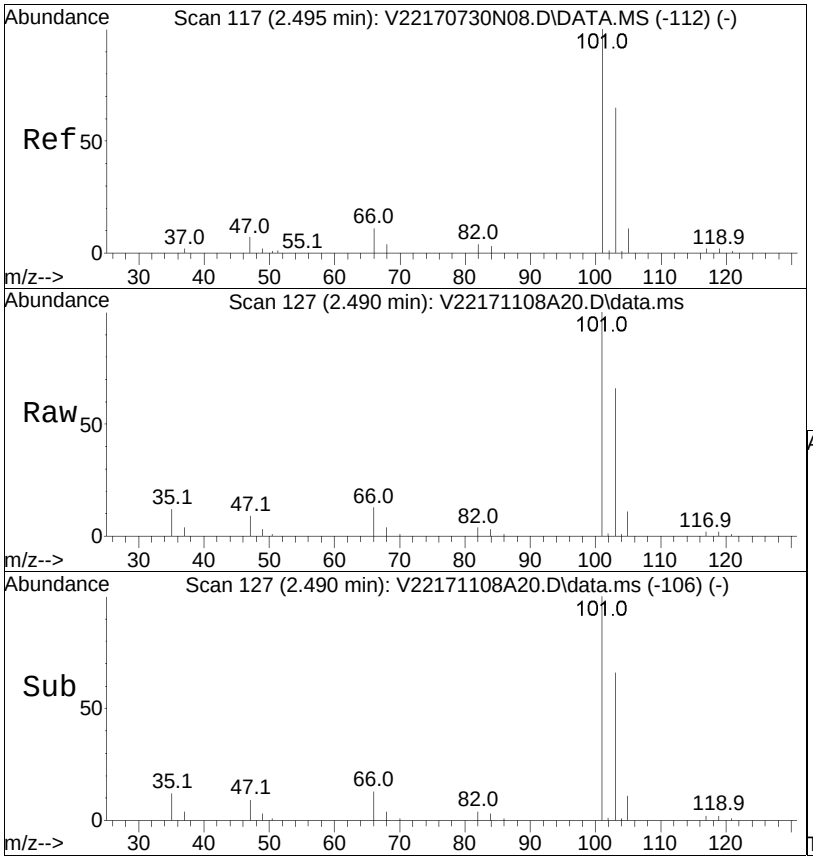


#6
Chloroethane
Concen: 13.75 ug/L
RT: 2.348 min Scan# 112
Delta R.T. -0.002 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 64 Resp: 56321

Ion	Ratio	Lower	Upper
64	100		
66	30.8	12.2	52.2

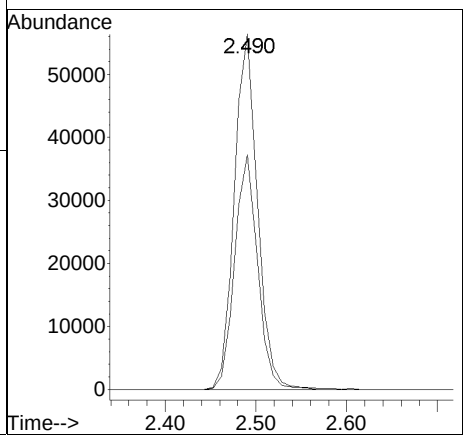


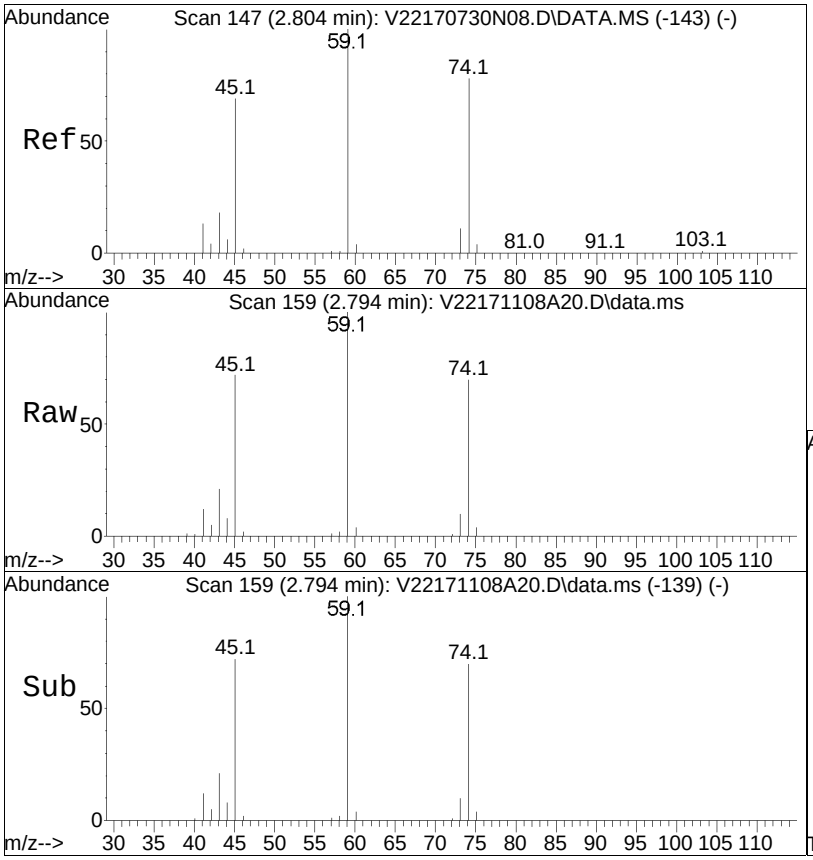


#7
Trichlorofluoromethane
Concen: 10.70 ug/L
RT: 2.490 min Scan# 127
Delta R.T. -0.005 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:101 Resp: 100381

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.6	77.4

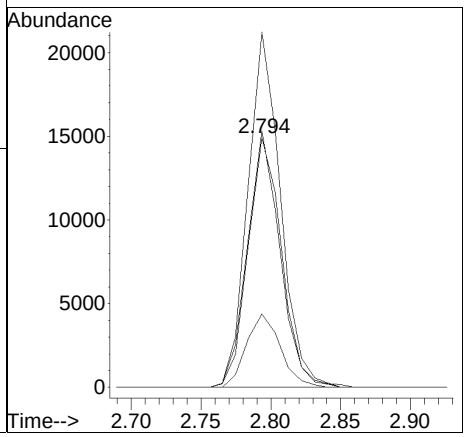


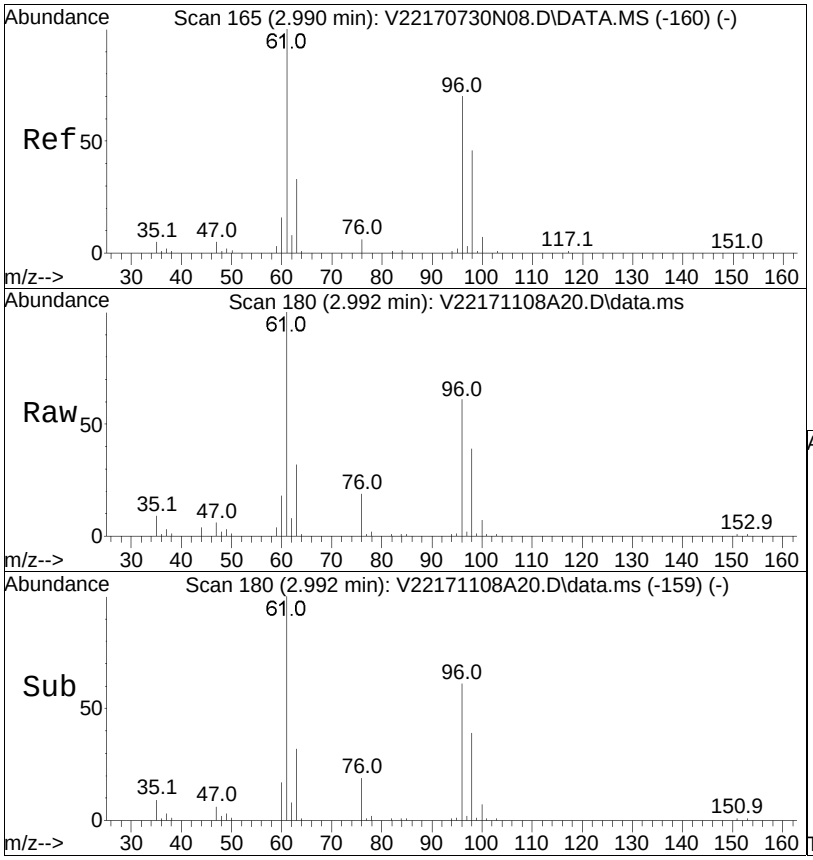


#8
Ethyl ether
Concen: 8.62 ug/L
RT: 2.794 min Scan# 159
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 74 Resp: 25087

Ion	Ratio	Lower	Upper
74	100		
59	137.4	2122.4	4408.0#
45	98.9	1435.1	2980.5#
43	29.7	407.9	847.3#

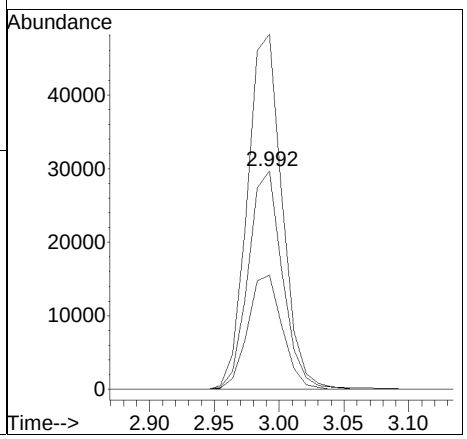


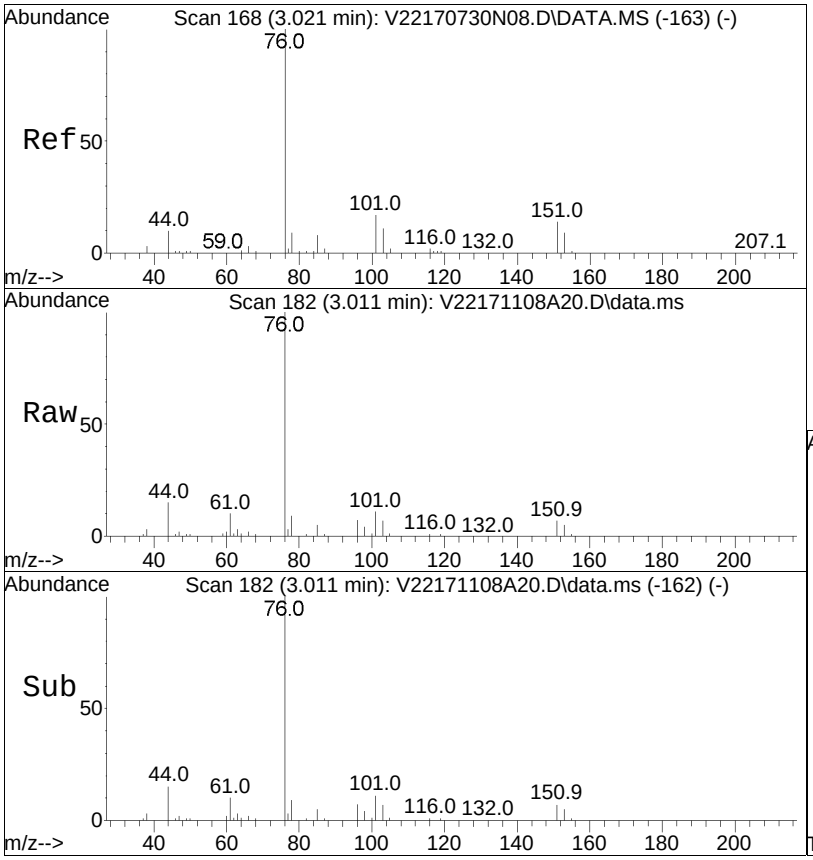


#10
1,1-Dichloroethene
Concen: 9.43 ug/L
RT: 2.992 min Scan# 180
Delta R.T. 0.002 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 96 Resp: 54576

Ion	Ratio	Lower	Upper
96	100		
61	166.0	117.0	175.4
63	53.0	37.8	56.6

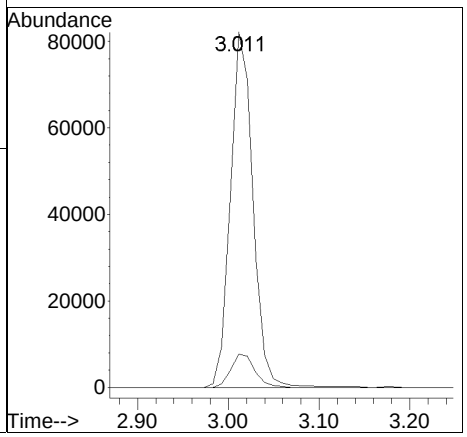


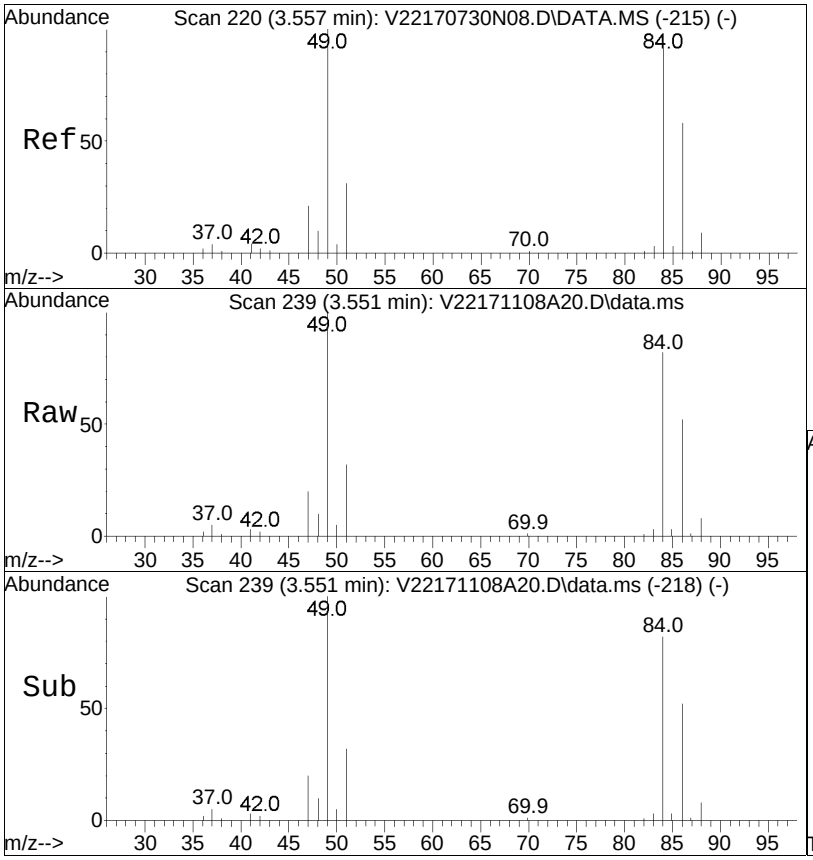


#11
Carbon disulfide
Concen: 9.54 ug/L
RT: 3.011 min Scan# 182
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 76 Resp: 141884

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

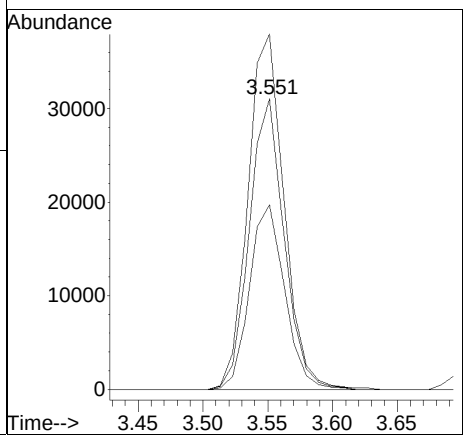


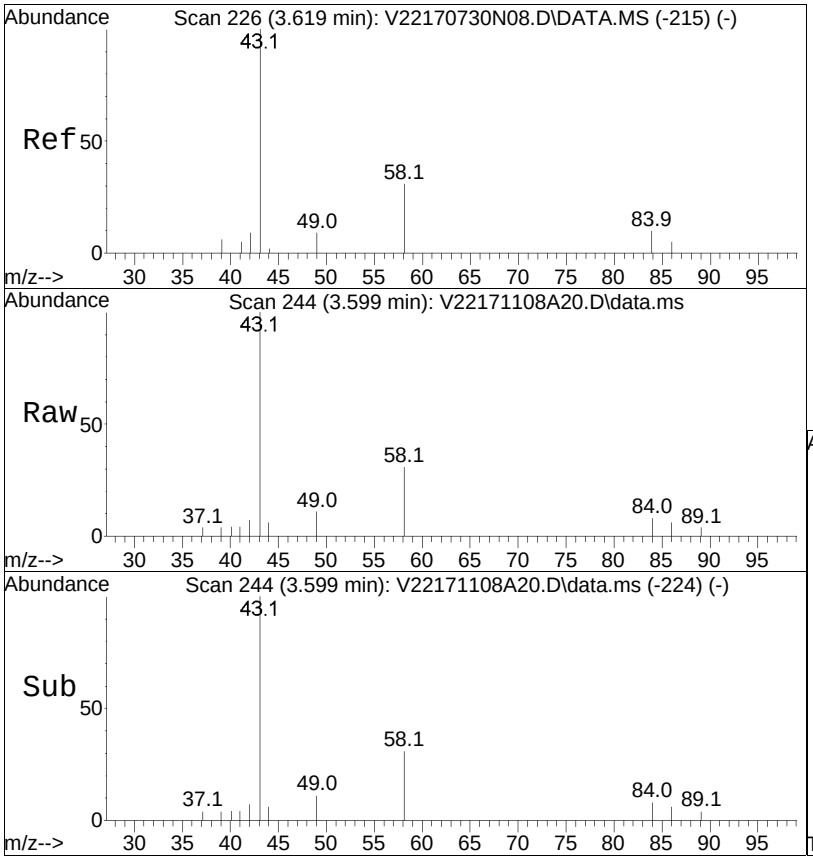


#15
Methylene chloride
Concen: 9.38 ug/L
RT: 3.551 min Scan# 239
Delta R.T. -0.006 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 84 Resp: 57849

Ion	Ratio	Lower	Upper
84	100		
86	64.5	41.5	86.3
49	126.9	68.8	143.0

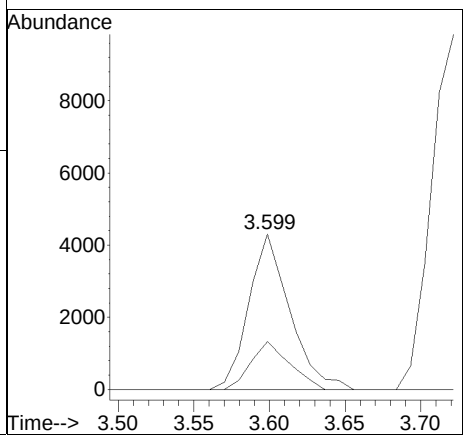


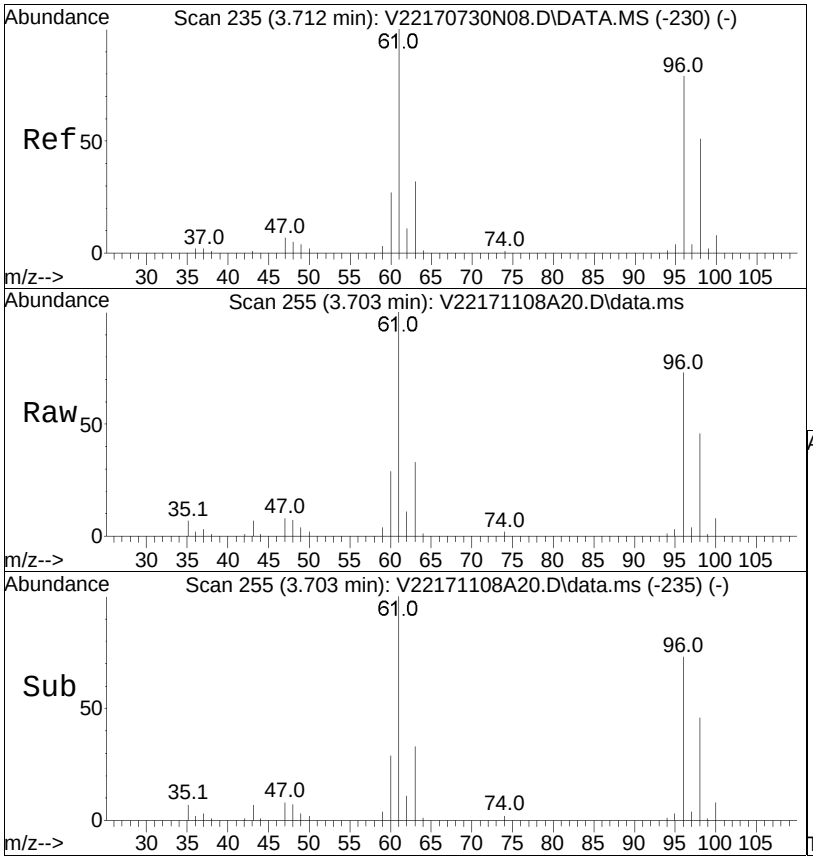


#17
Acetone
Concen: 10.92 ug/L
RT: 3.599 min Scan# 244
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 43 Resp: 8138

Ion	Ratio	Lower	Upper
43	100		
58	29.0	23.1	34.7

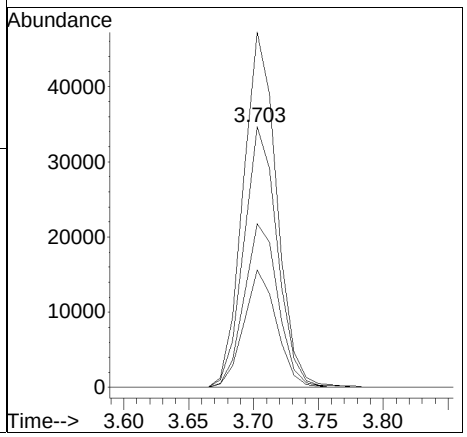


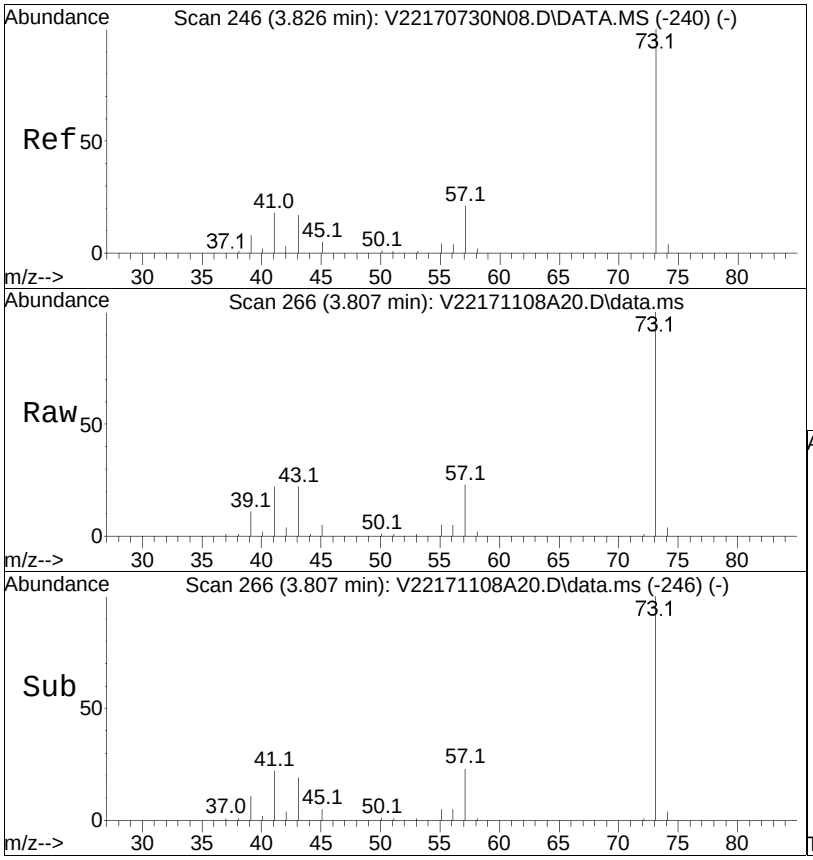


#18
trans-1,2-Dichloroethene
Concen: 9.37 ug/L
RT: 3.703 min Scan# 255
Delta R.T. -0.009 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 96 Resp: 62632

Ion	Ratio	Lower	Upper
96	100		
61	136.7	81.6	169.6
98	63.5	41.8	86.8
63	44.0	26.3	54.7

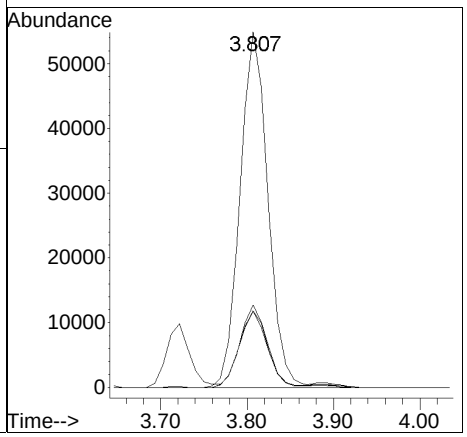


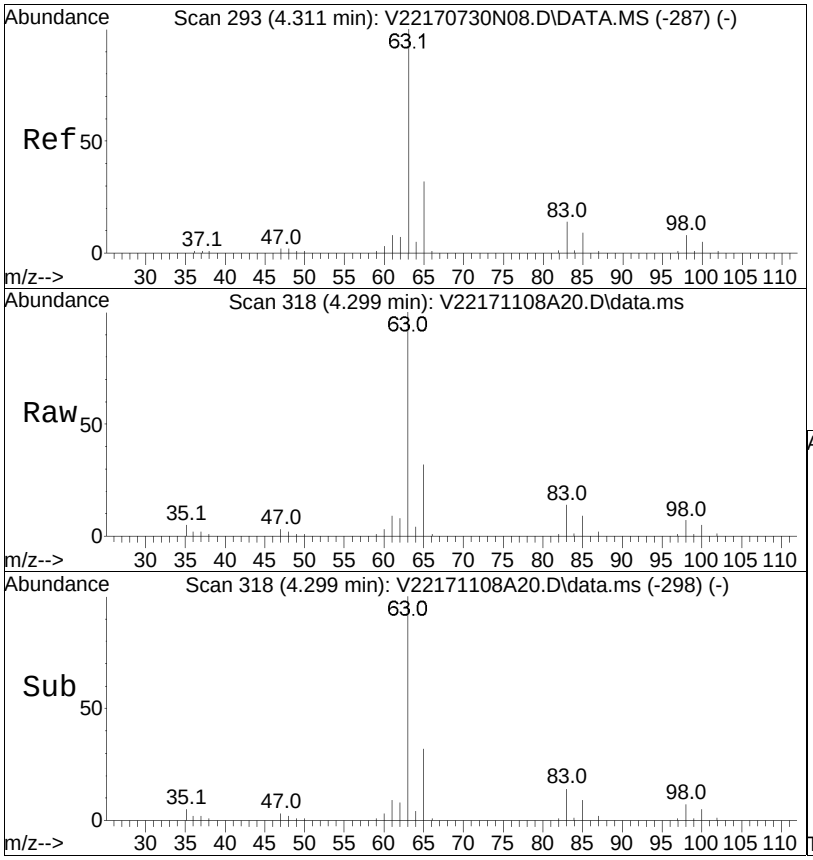


#21
Methyl tert-butyl ether
Concen: 8.63 ug/L
RT: 3.807 min Scan# 266
Delta R.T. -0.008 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 73 Resp: 123472

Ion	Ratio	Lower	Upper
73	100		
57	22.8	13.6	28.2
43	21.8	12.7	26.5
41	21.5	11.4	23.8

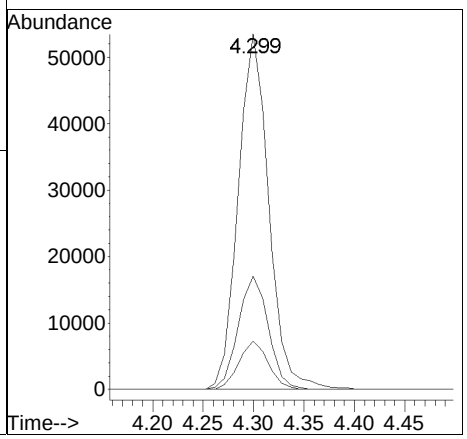


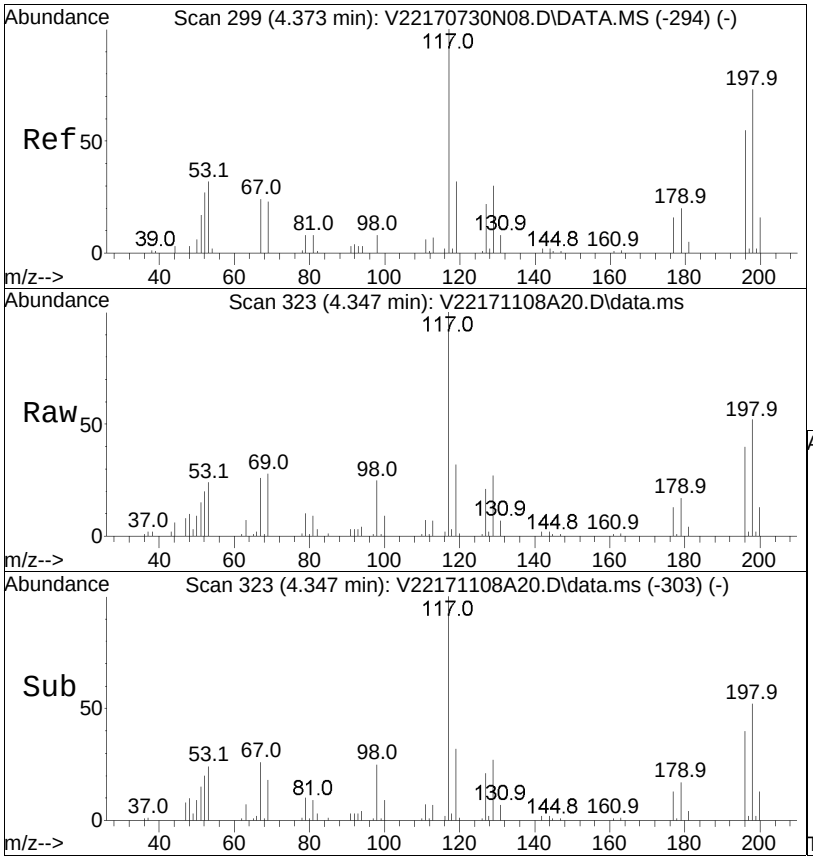


#25
1,1-Dichloroethane
Concen: 10.67 ug/L
RT: 4.299 min Scan# 318
Delta R.T. -0.012 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 63 Resp: 112867

Ion	Ratio	Lower	Upper
63	100		
65	31.3	11.9	51.9
83	13.0	0.0	34.2

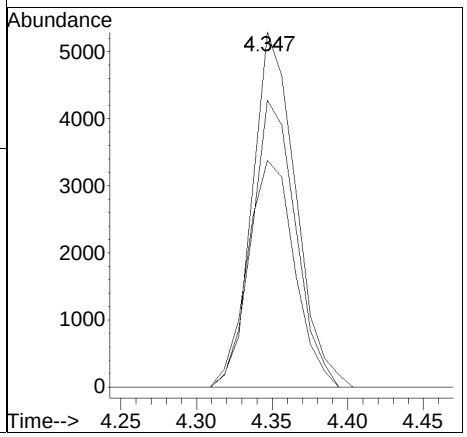


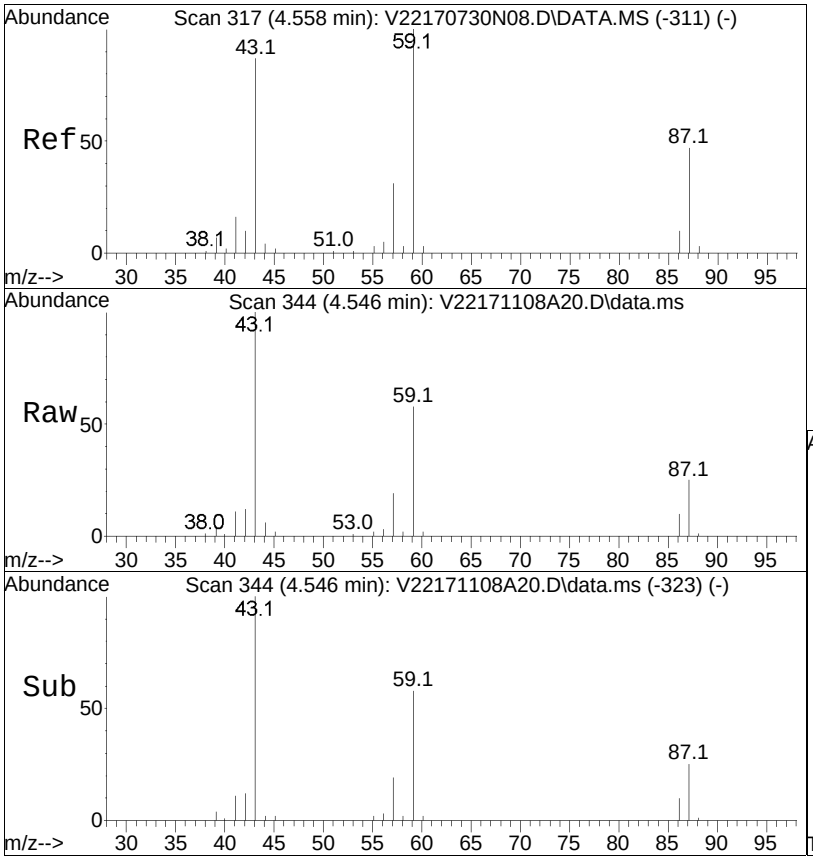


#27
Acrylonitrile
Concen: 9.93 ug/L
RT: 4.347 min Scan# 323
Delta R.T. -0.015 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 53 Resp: 10508

Ion	Ratio	Lower	Upper
53	100		
52	82.1	63.8	95.8
51	69.6	50.2	75.4

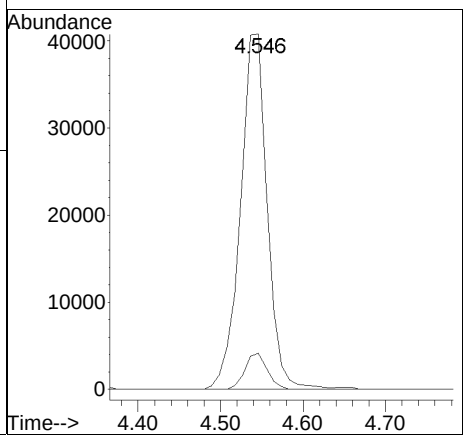


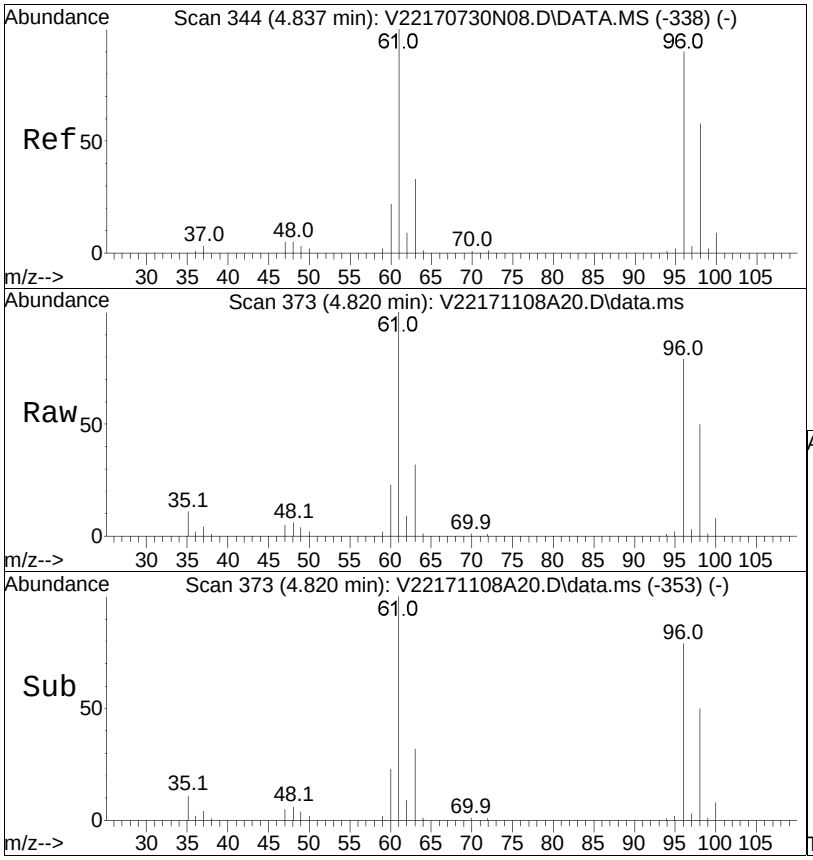


#29
Vinyl acetate
Concen: 9.51 ug/L
RT: 4.546 min Scan# 344
Delta R.T. -0.002 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 43 Resp: 92597

Ion	Ratio	Lower	Upper
43	100		
86	8.5	8.9	13.3#

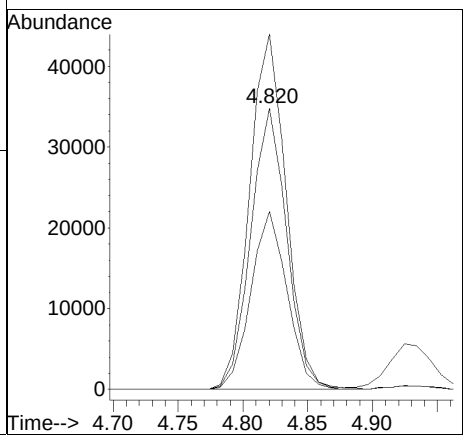


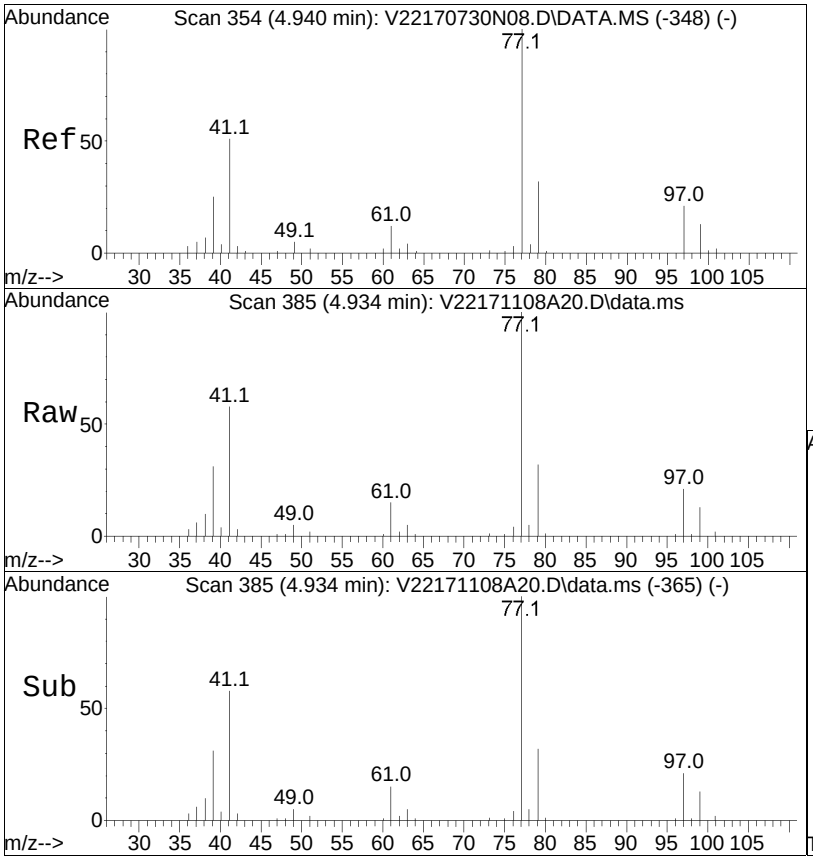


#30
cis-1,2-Dichloroethene
Concen: 9.37 ug/L
RT: 4.820 min Scan# 373
Delta R.T. -0.007 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 96 Resp: 67248

Ion	Ratio	Lower	Upper
96	100		
61	128.6	90.3	135.5
98	63.8	50.8	76.2

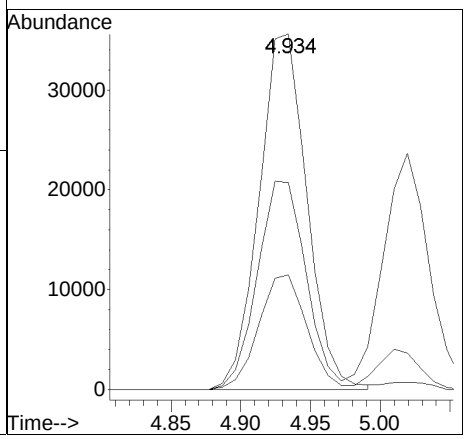


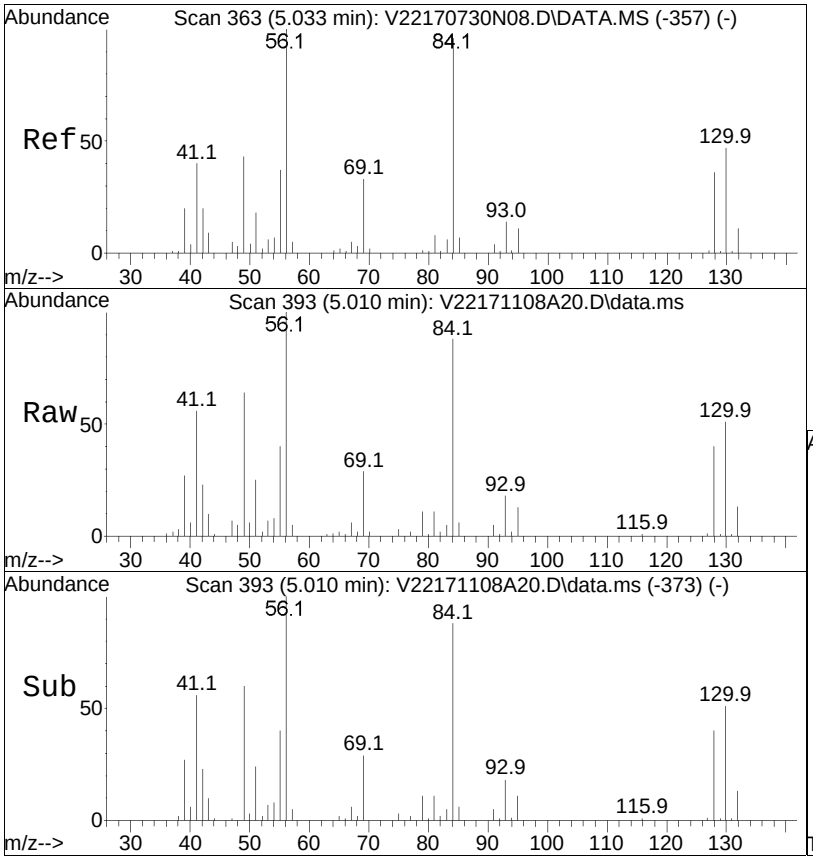


#31
2,2-Dichloropropane
Concen: 9.28 ug/L
RT: 4.934 min Scan# 385
Delta R.T. -0.006 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 77 Resp: 84889

Ion	Ratio	Lower	Upper
77	100		
41	59.5	32.3	67.1
79	32.6	21.1	43.7

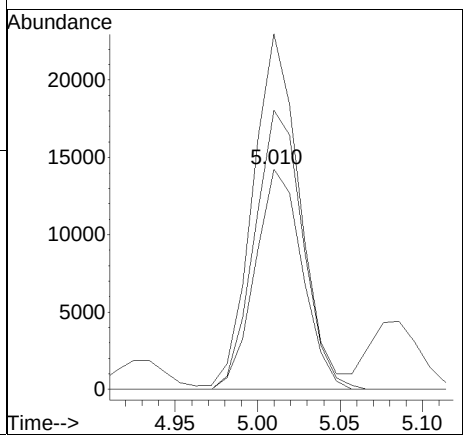


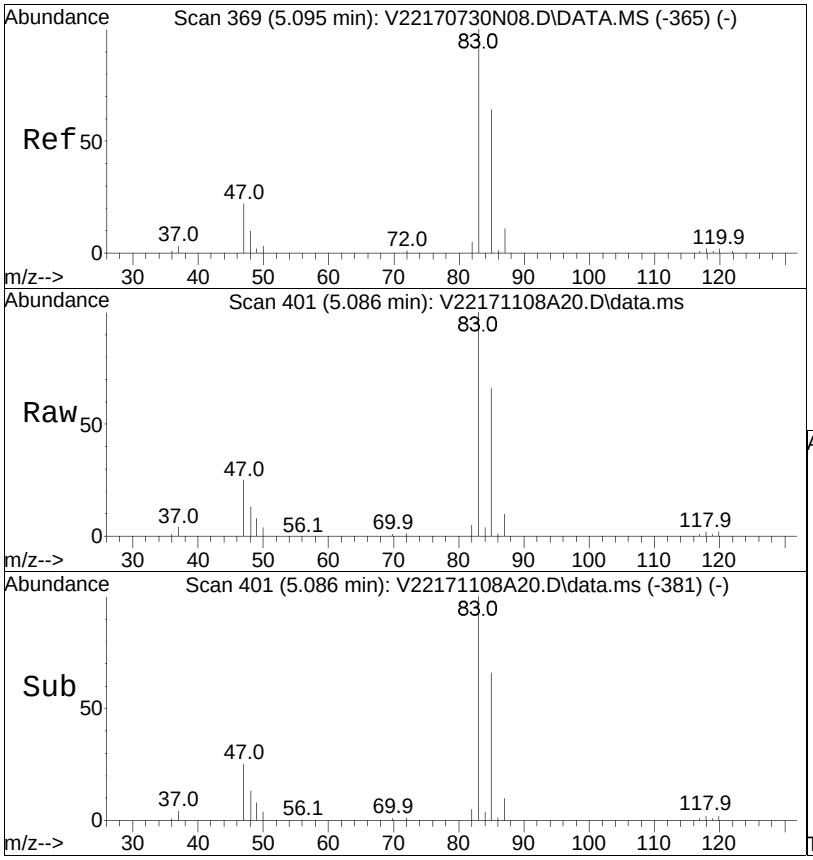


#32
Bromochloromethane
Concen: 9.39 ug/L
RT: 5.010 min Scan# 393
Delta R.T. -0.013 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:128 Resp: 28349

Ion	Ratio	Lower	Upper
128	100		
49	159.9	104.4	156.6#
130	128.8	103.9	155.9

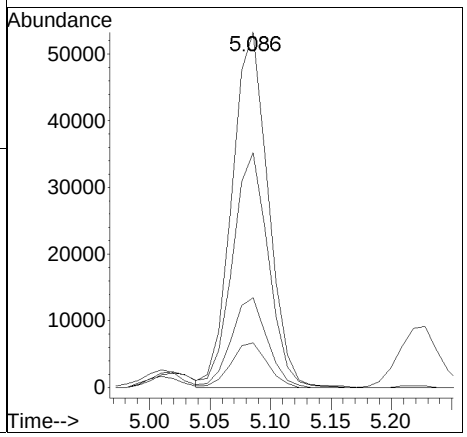


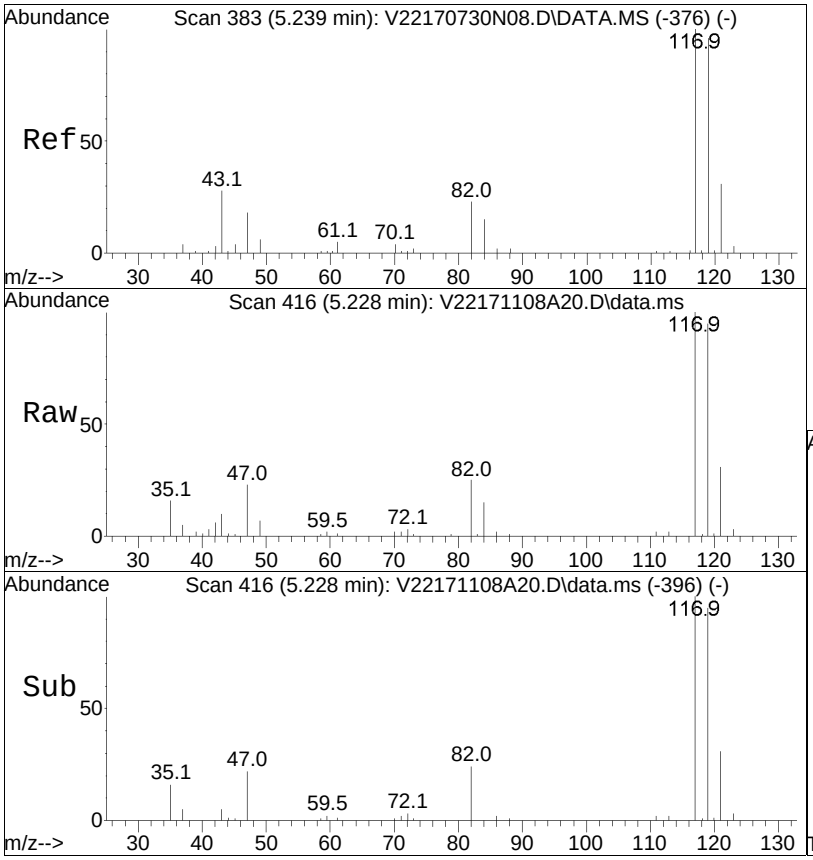


#34
Chloroform
Concen: 10.11 ug/L
RT: 5.086 min Scan# 401
Delta R.T. -0.009 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 83 Resp: 111132

Ion	Ratio	Lower	Upper
83	100		
85	65.9	42.4	88.2
47	25.1	14.0	29.0
48	12.5	6.9	14.3

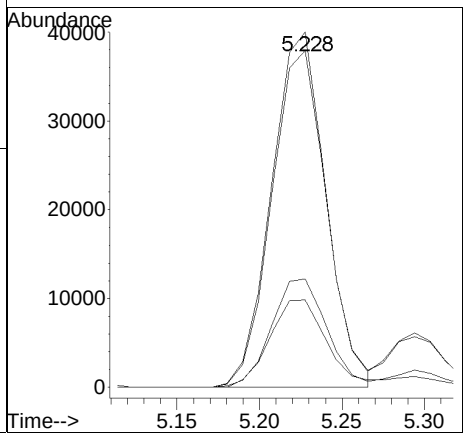


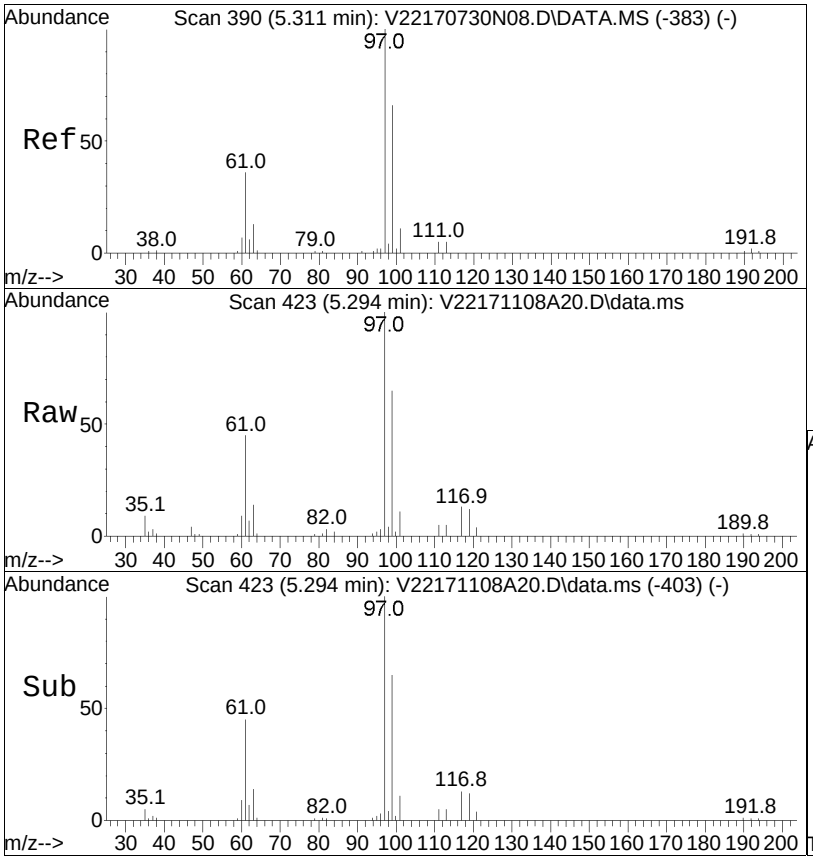


#36
Carbon tetrachloride
Concen: 10.58 ug/L
RT: 5.228 min Scan# 416
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:117 Resp: 91787

Ion	Ratio	Lower	Upper
117	100		
119	95.9	62.1	129.1
121	31.2	20.3	42.3
82	26.3	15.4	32.0

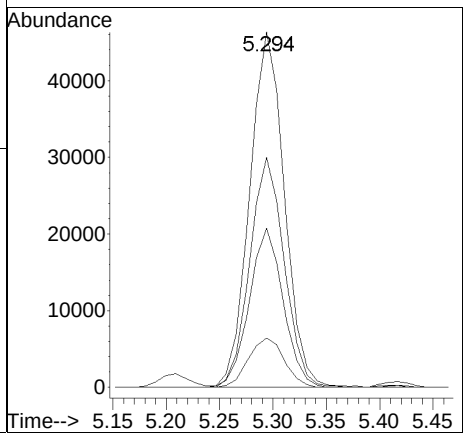


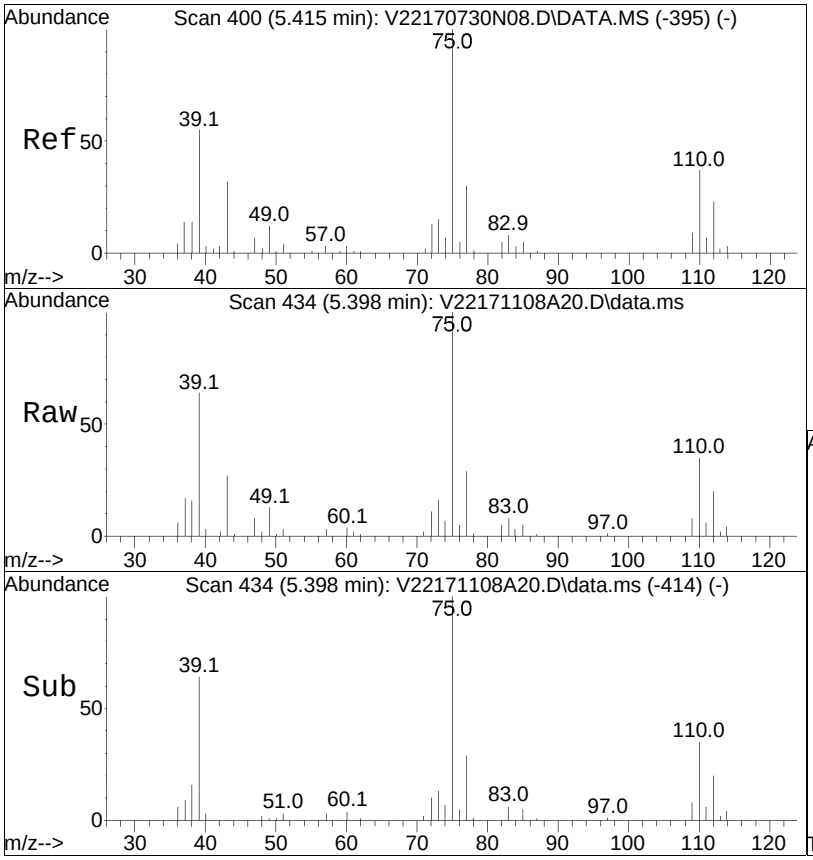


#39
1,1,1-Trichloroethane
Concen: 10.04 ug/L
RT: 5.294 min Scan# 423
Delta R.T. -0.007 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 97 Resp: 104899

Ion	Ratio	Lower	Upper
97	100		
99	64.2	42.4	88.0
61	43.8	26.0	54.0
63	14.4	8.3	17.3

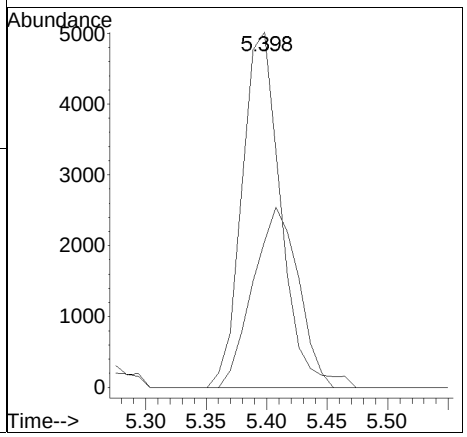


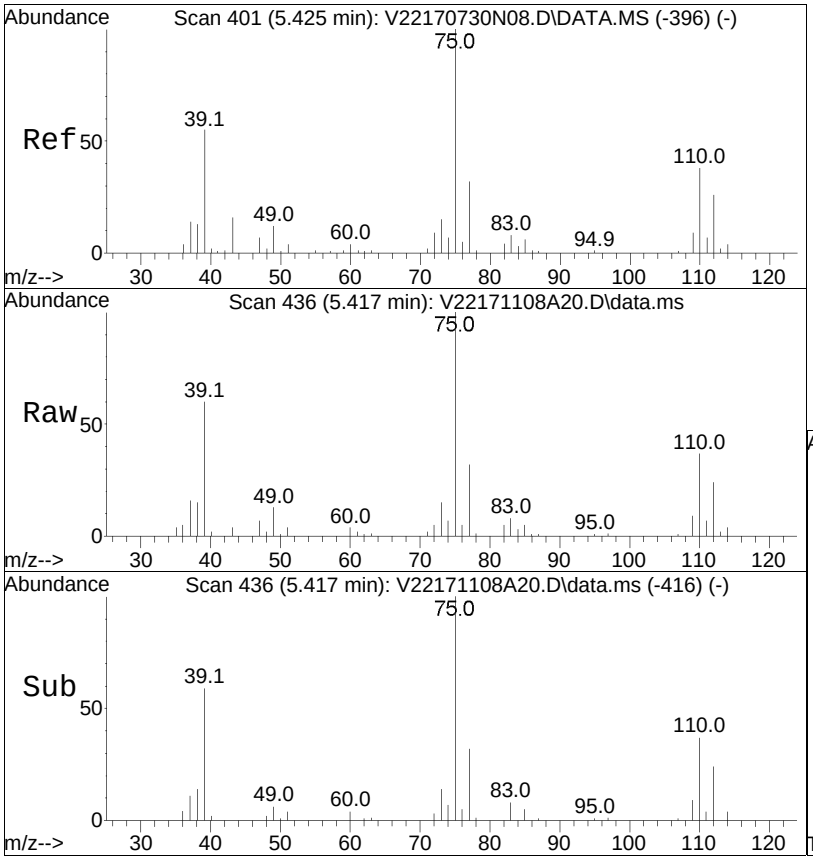


#41
2-Butanone
Concen: 10.30 ug/L
RT: 5.398 min Scan# 434
Delta R.T. -0.006 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 43 Resp: 11216

Ion	Ratio	Lower	Upper
43	100		
72	59.2	45.8	68.8

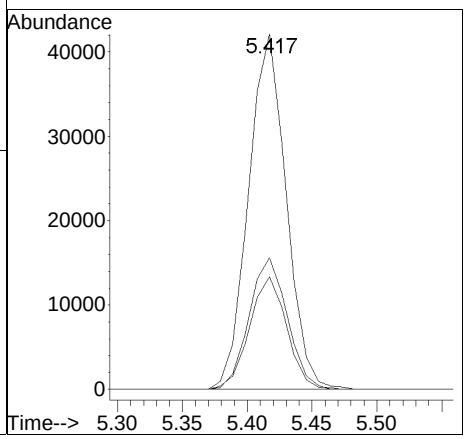


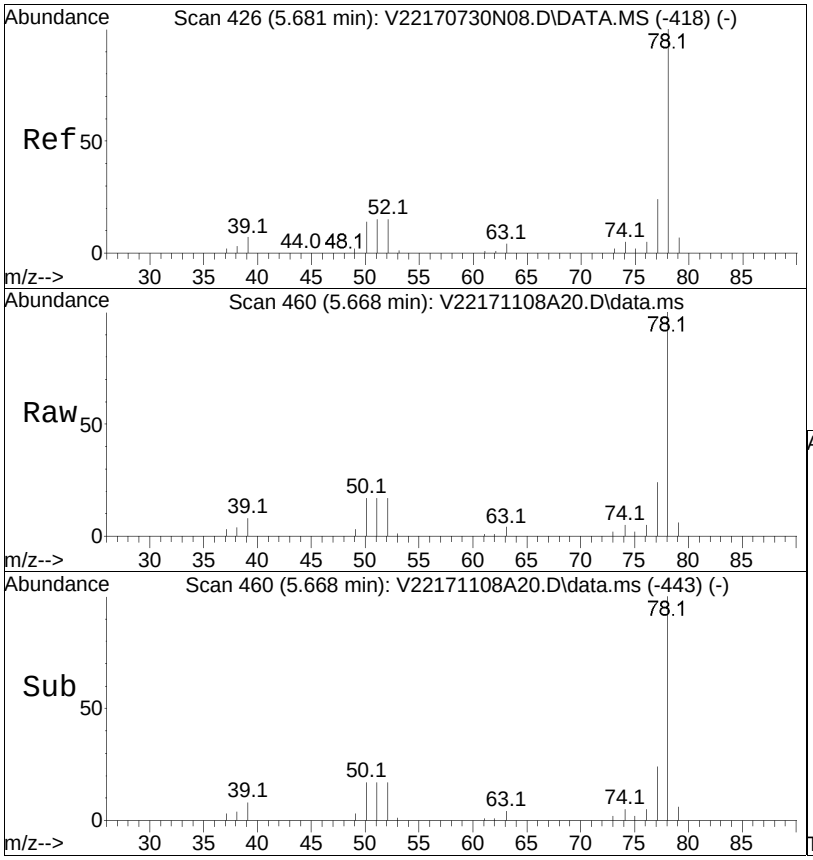


#42
1,1-Dichloropropene
Concen: 9.87 ug/L
RT: 5.417 min Scan# 436
Delta R.T. -0.008 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 75 Resp: 85148

Ion	Ratio	Lower	Upper
75	100		
110	37.4	25.4	52.8
77	31.4	20.3	42.1

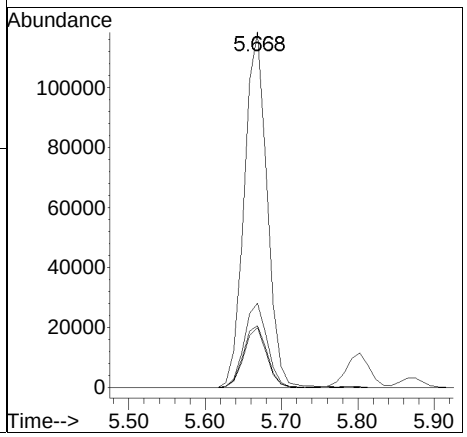


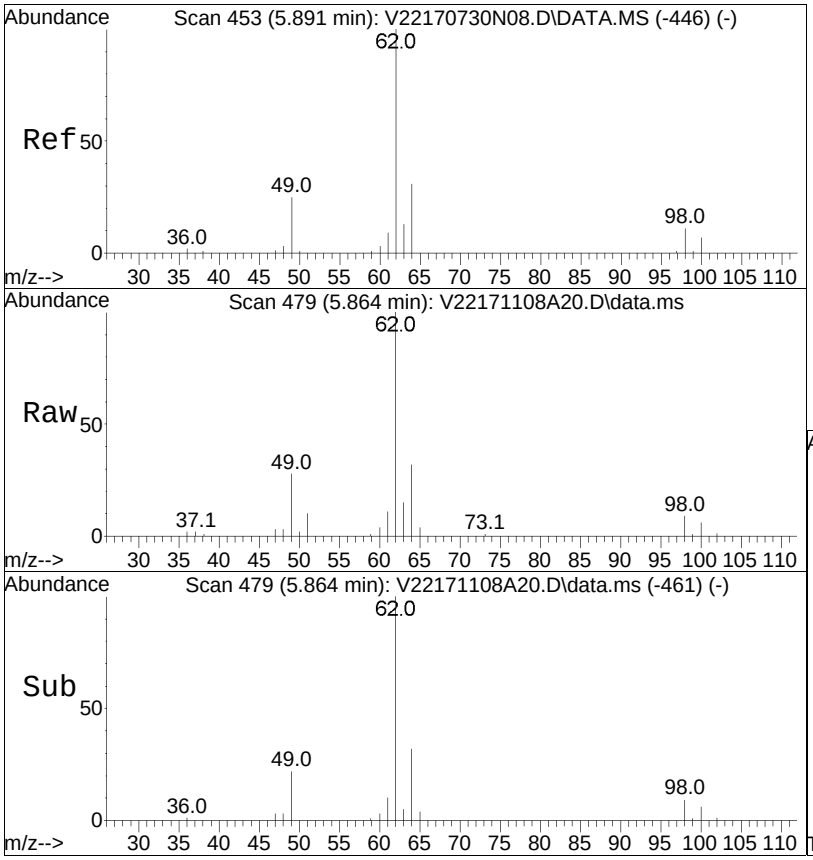


#44
Benzene
Concen: 10.43 ug/L
RT: 5.668 min Scan# 460
Delta R.T. -0.013 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 78 Resp: 269040

Ion	Ratio	Lower	Upper
78	100		
77	24.9	15.4	32.0
51	18.9	9.8	20.4
52	17.5	9.2	19.2

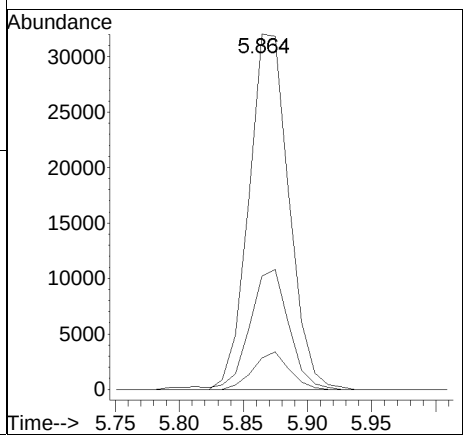


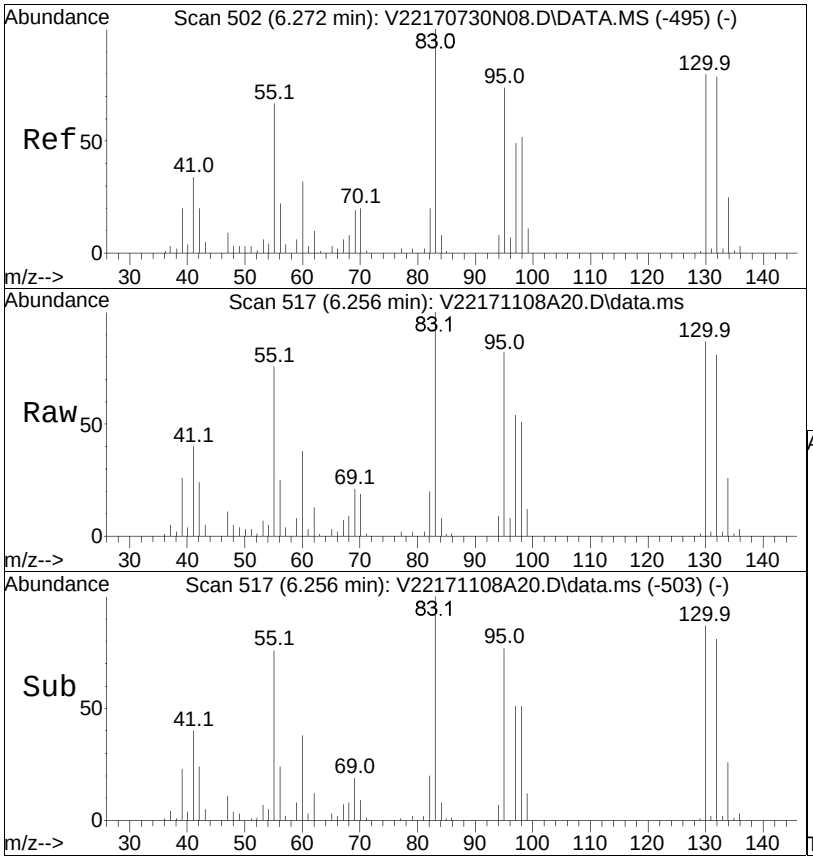


#47
1,2-Dichloroethane
Concen: 10.42 ug/L
RT: 5.864 min Scan# 479
Delta R.T. -0.019 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 62 Resp: 69714

Ion	Ratio	Lower	Upper
62	100		
64	33.3	12.3	52.3
98	9.5	0.0	30.3

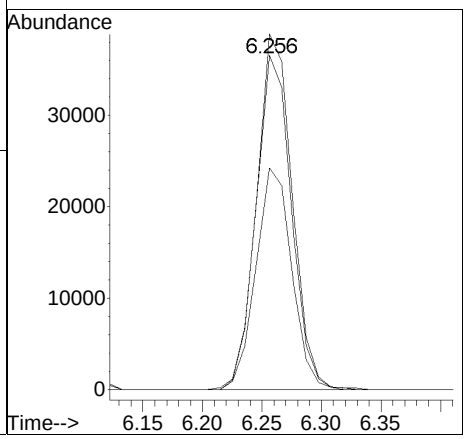


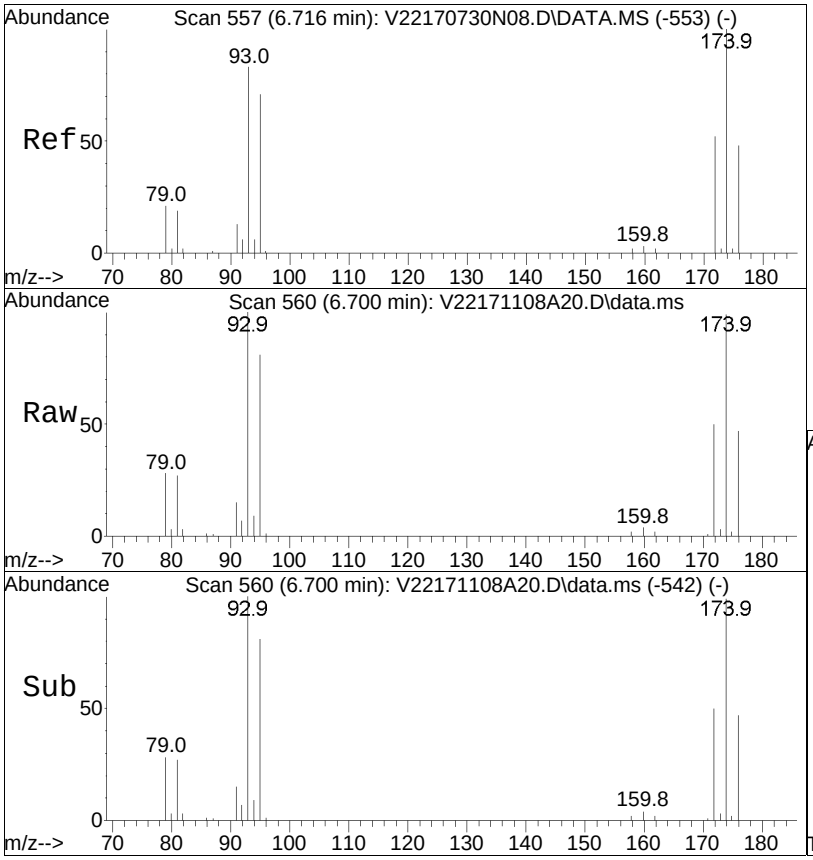


#51
Trichloroethene
Concen: 11.35 ug/L
RT: 6.256 min Scan# 517
Delta R.T. -0.016 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 95 Resp: 75618

Ion	Ratio	Lower	Upper
95	100		
97	67.2	55.0	82.4
130	106.9	89.2	133.8

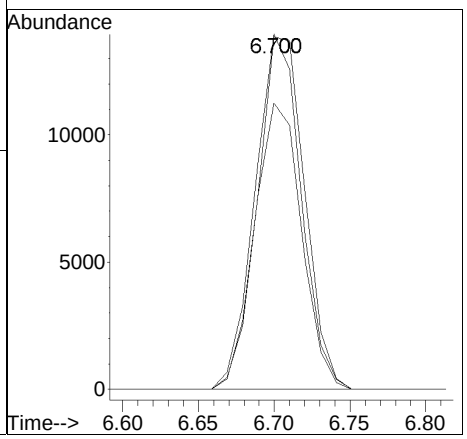


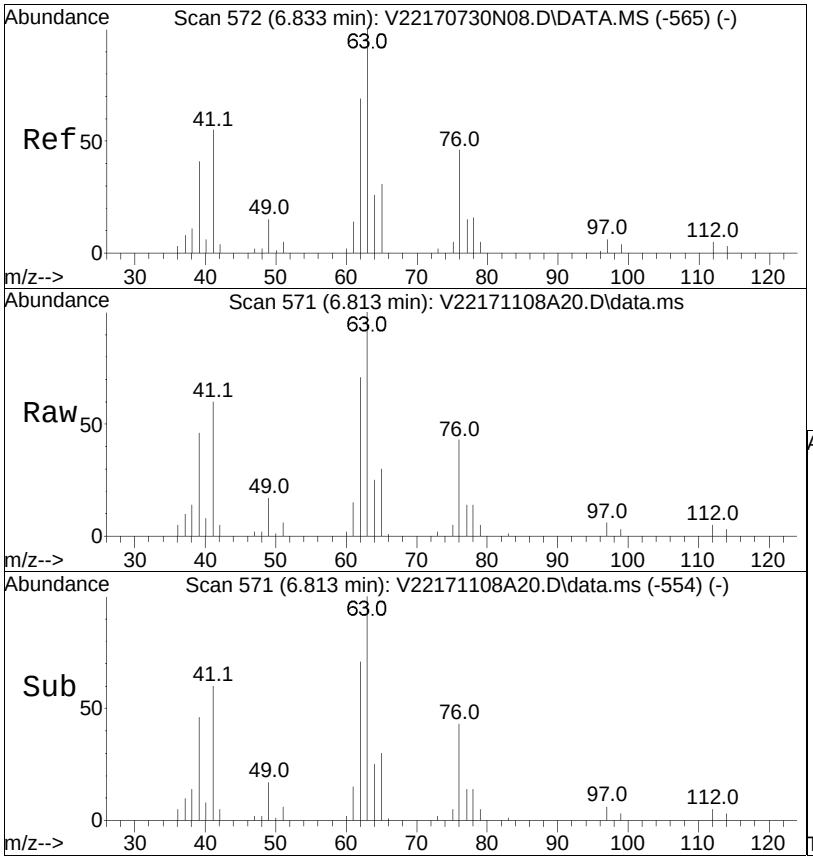


#53
Dibromomethane
Concen: 11.88 ug/L
RT: 6.700 min Scan# 560
Delta R.T. -0.016 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 93 Resp: 29476

Ion	Ratio	Lower	Upper
93	100		
95	82.4	68.0	102.0
174	102.1	106.1	159.1#

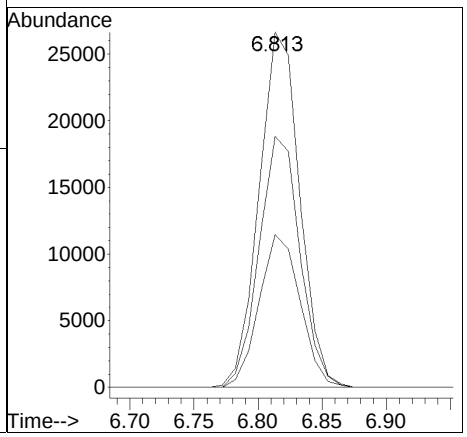


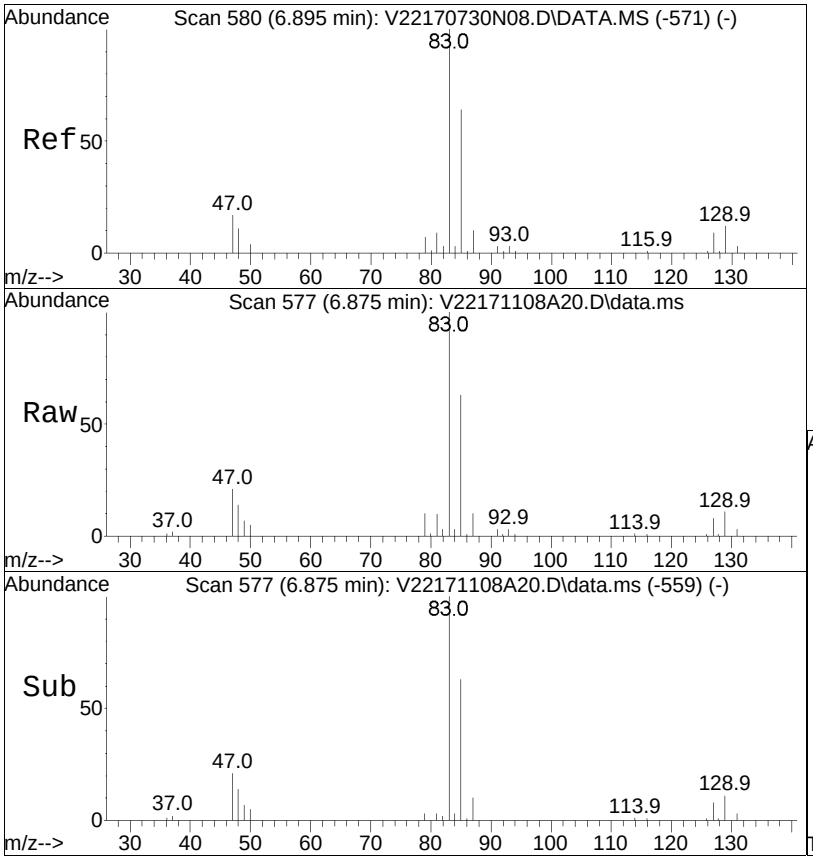


#54
1,2-Dichloropropane
Concen: 10.51 ug/L
RT: 6.813 min Scan# 571
Delta R.T. -0.020 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 63 Resp: 58813

Ion	Ratio	Lower	Upper
63	100		
62	71.1	56.9	85.3
76	43.5	35.8	53.8

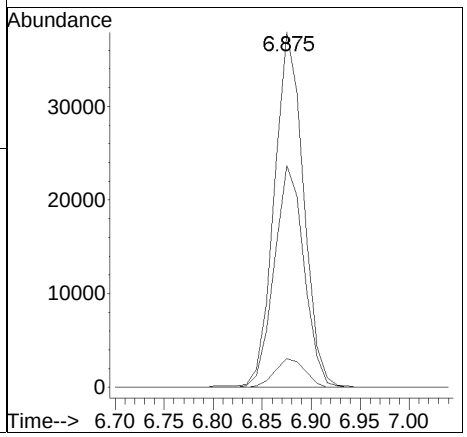


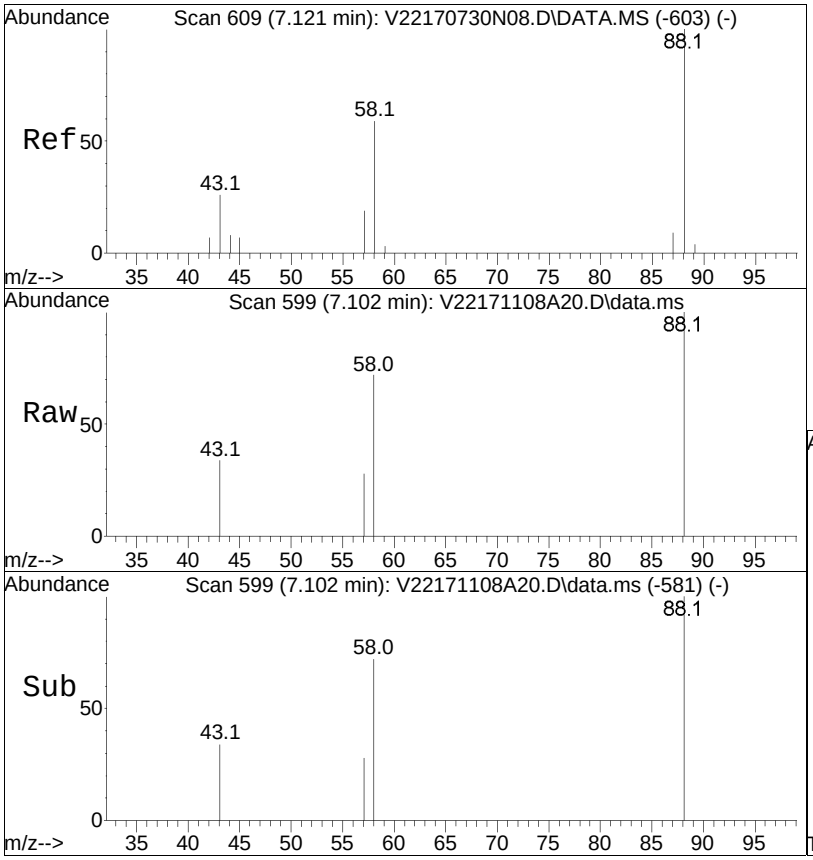


#57
Bromodichloromethane
Concen: 9.43 ug/L
RT: 6.875 min Scan# 577
Delta R.T. -0.012 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 83 Resp: 78816

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.6	77.4
127	8.4	7.4	11.0

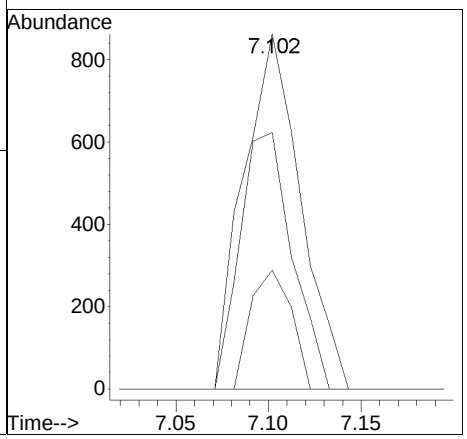


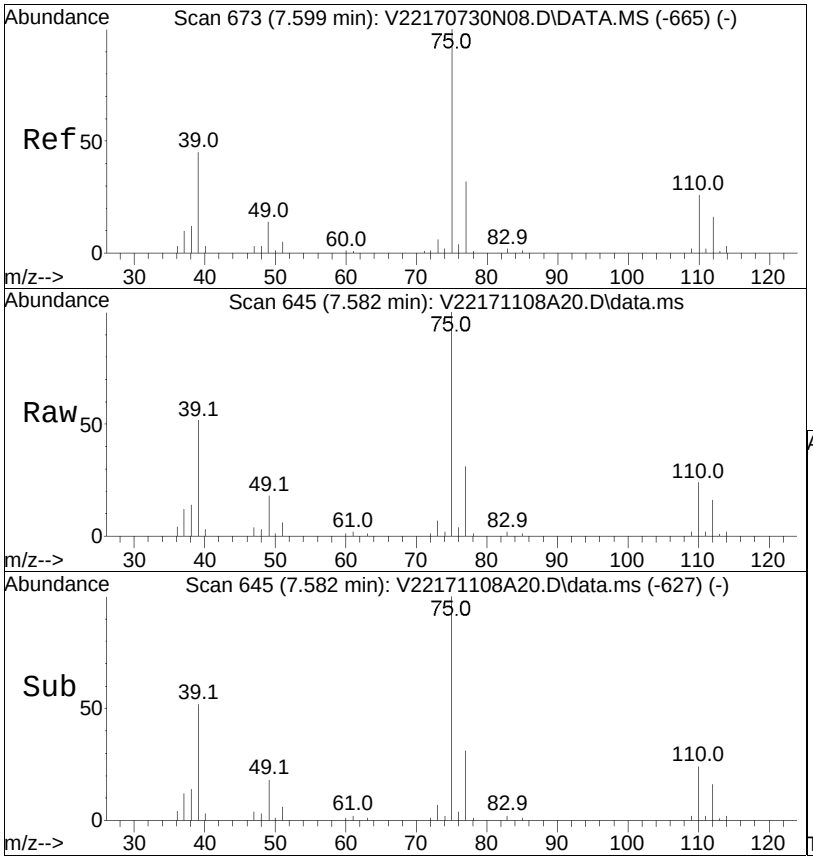


#60
1,4-Dioxane
Concen: 183.76 ug/L
RT: 7.102 min Scan# 599
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 88 Resp: 1848

Ion	Ratio	Lower	Upper
88	100		
58	66.3	43.3	64.9#
43	24.0	15.1	22.7#

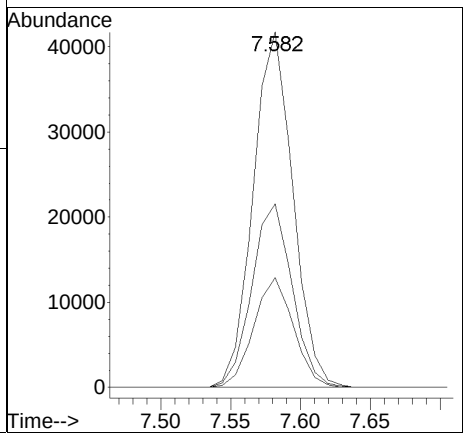


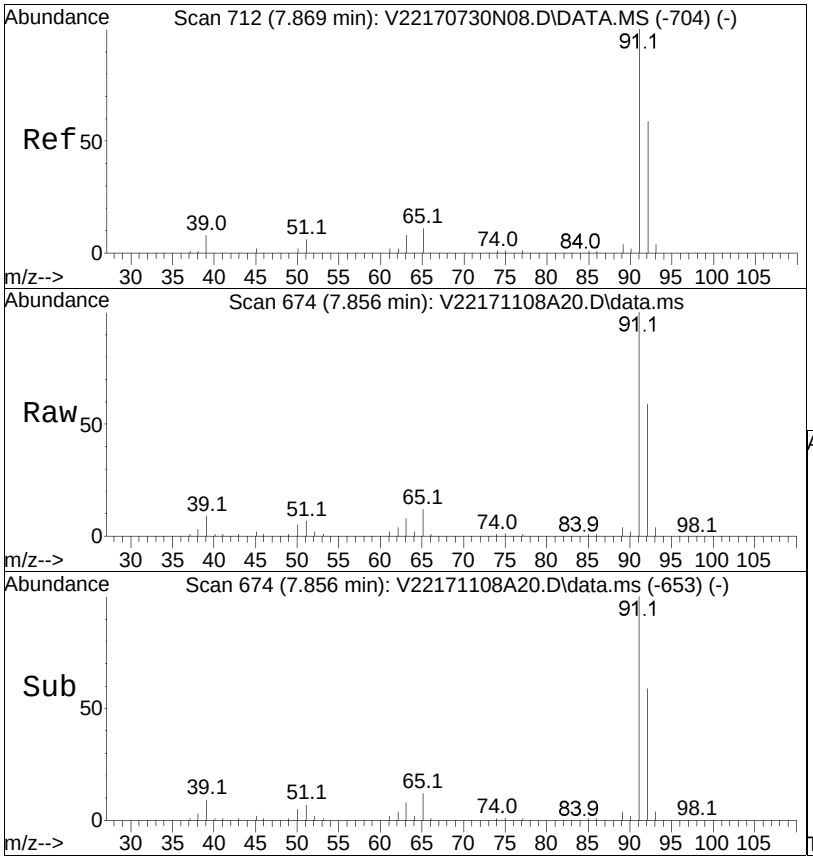


#61
cis-1,3-Dichloropropene
Concen: 8.62 ug/L
RT: 7.582 min Scan# 645
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 75 Resp: 82894

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.6	38.4
39	52.5	35.4	53.0

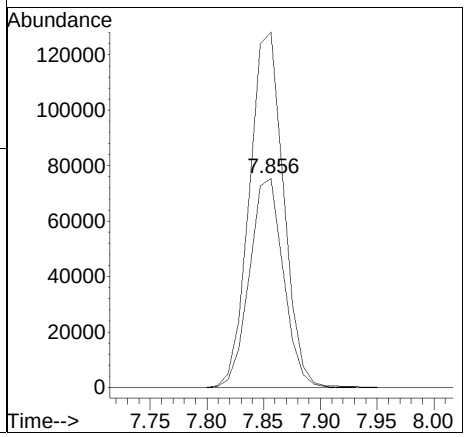


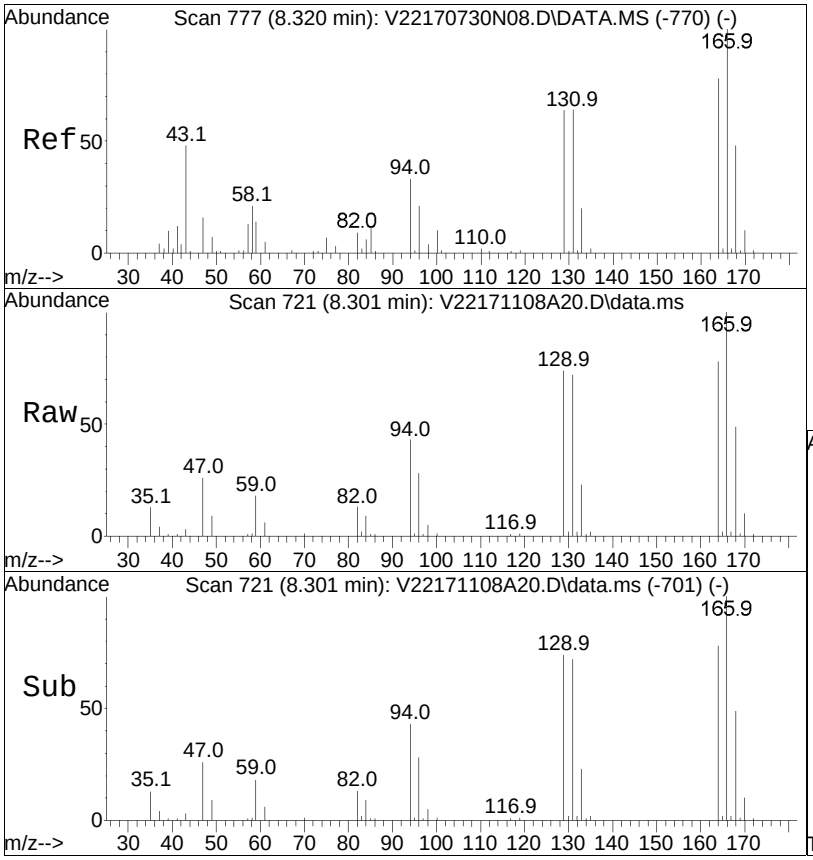


#64
Toluene
Concen: 10.48 ug/L
RT: 7.856 min Scan# 674
Delta R.T. -0.006 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 92 Resp: 156592

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.0	205.6

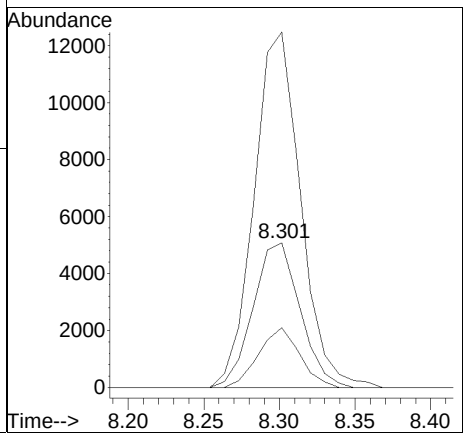


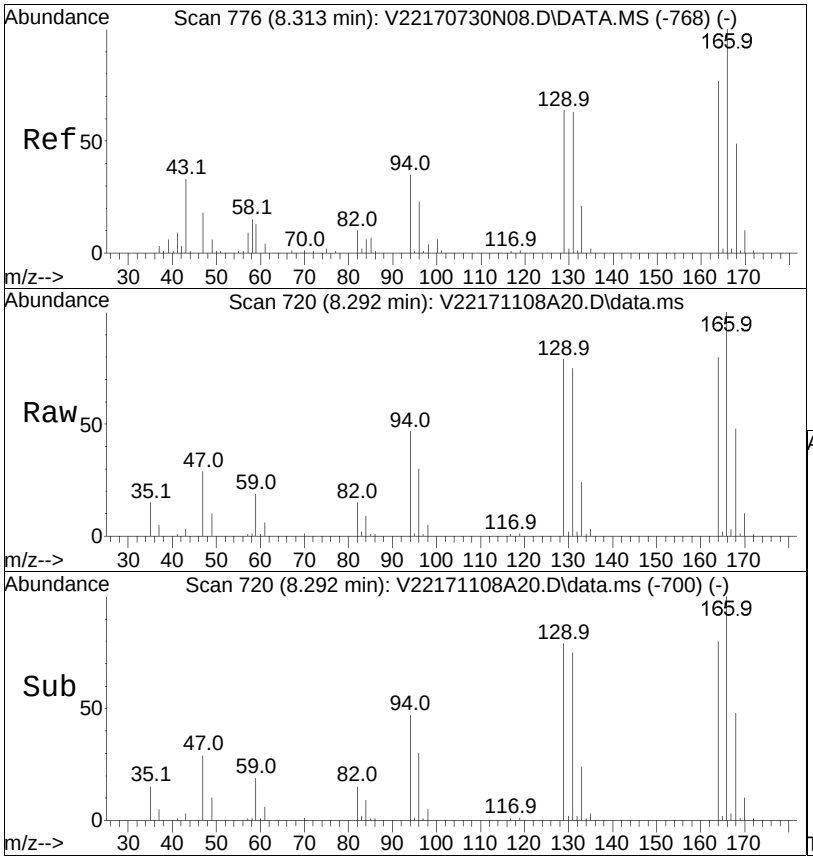


#65
4-Methyl-2-pentanone
Concen: 10.03 ug/L
RT: 8.301 min Scan# 721
Delta R.T. -0.012 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 58 Resp: 10956

Ion	Ratio	Lower	Upper
58	100		
100	36.2	36.2	54.4#
43	243.2	181.8	272.8

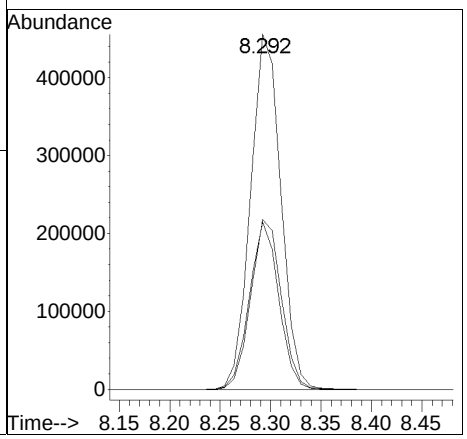


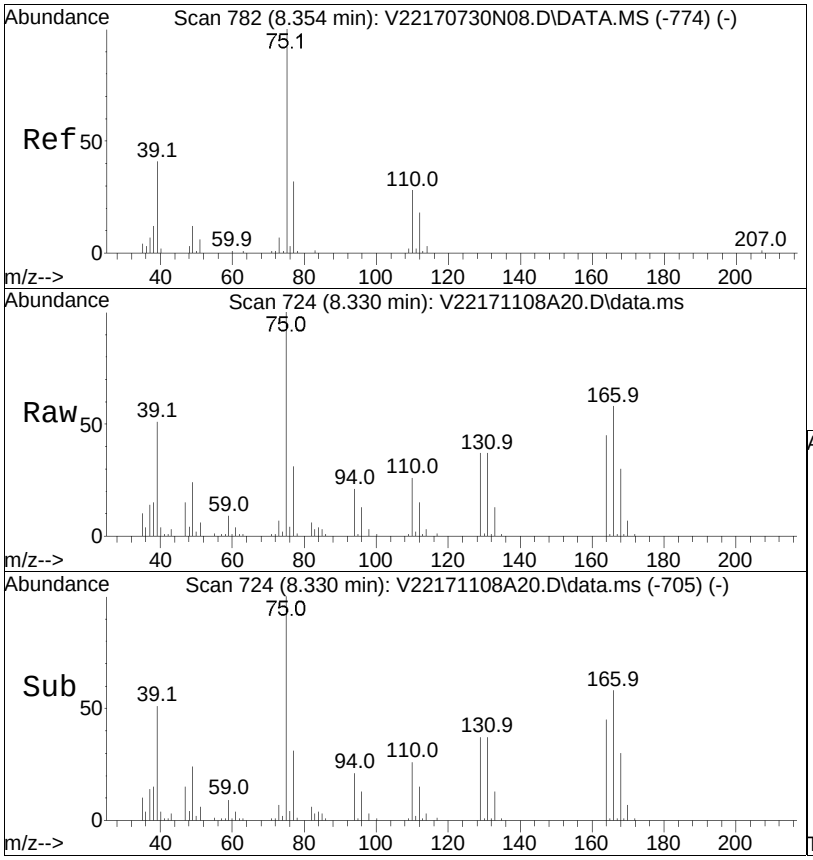


#66
Tetrachloroethene
Concen: 123.19 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:166 Resp: 952523

Ion	Ratio	Lower	Upper
166	100		
168	48.1	27.8	67.8
94	45.7	16.7	56.7

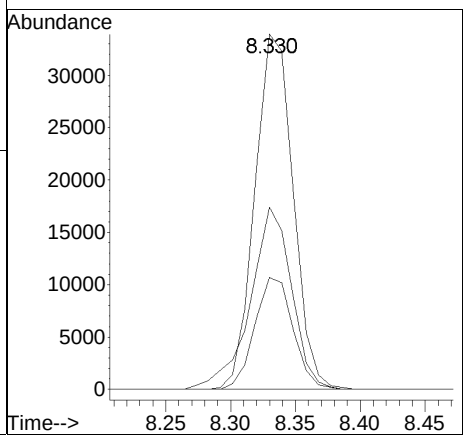


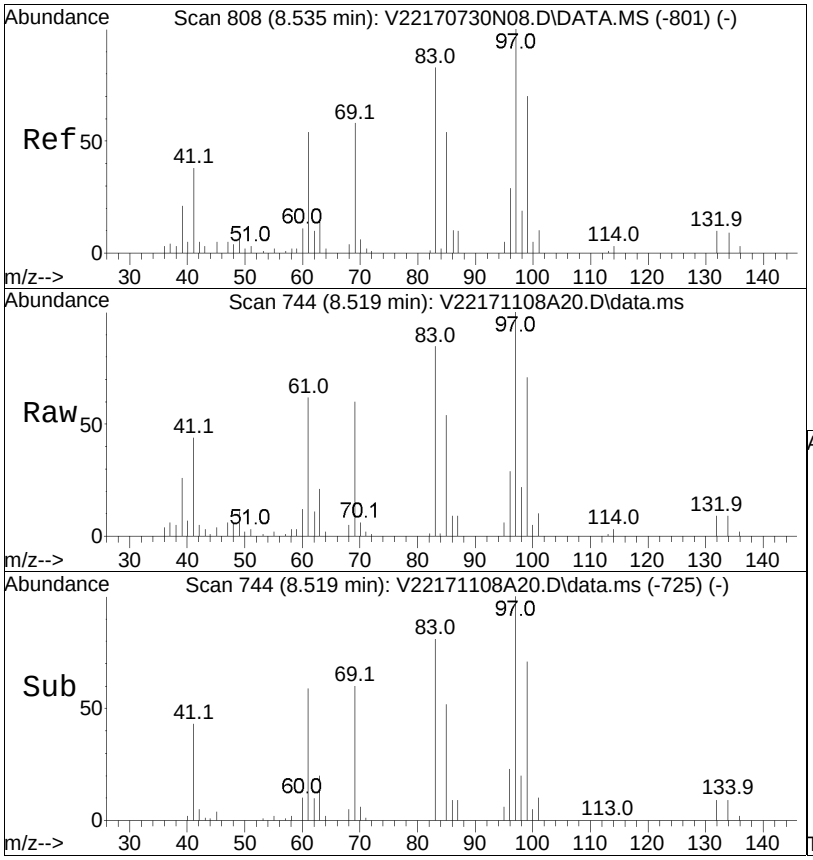


#68
trans-1,3-Dichloropropene
Concen: 9.44 ug/L
RT: 8.330 min Scan# 724
Delta R.T. -0.018 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 75 Resp: 69762

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.9	51.9
39	55.2	27.4	67.4

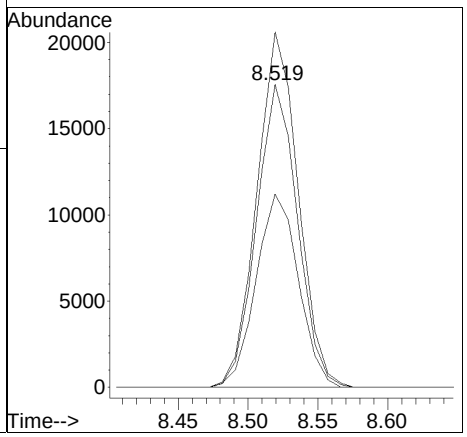


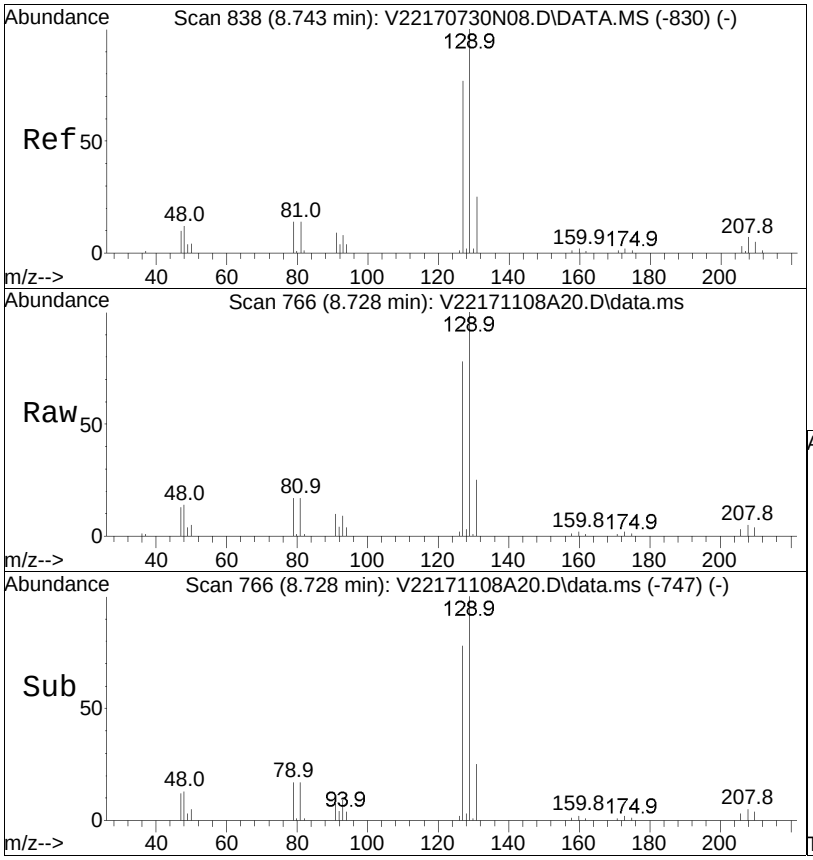


#71
1,1,2-Trichloroethane
Concen: 10.15 ug/L
RT: 8.519 min Scan# 744
Delta R.T. -0.016 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 83 Resp: 35870

Ion	Ratio	Lower	Upper
83	100		
97	118.4	103.4	143.4
85	66.1	47.9	87.9

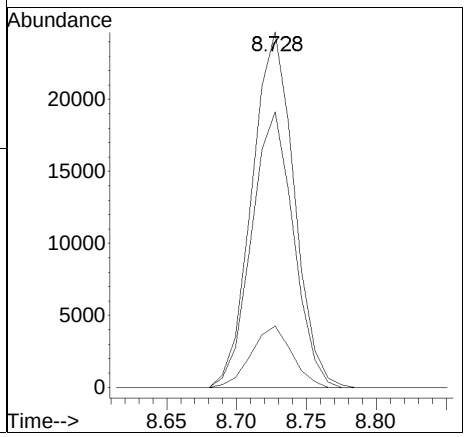


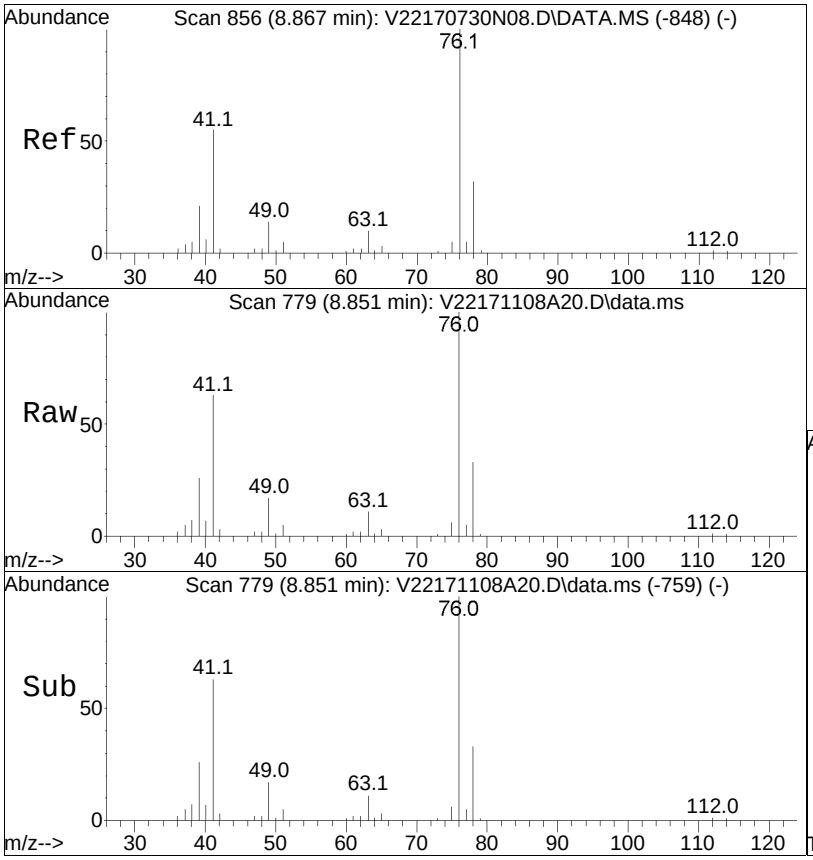


#72
Chlorodibromomethane
Concen: 9.31 ug/L
RT: 8.728 min Scan# 766
Delta R.T. -0.015 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:129 Resp: 51913

Ion	Ratio	Lower	Upper
129	100		
81	16.7	0.0	33.8
127	77.0	57.1	97.1

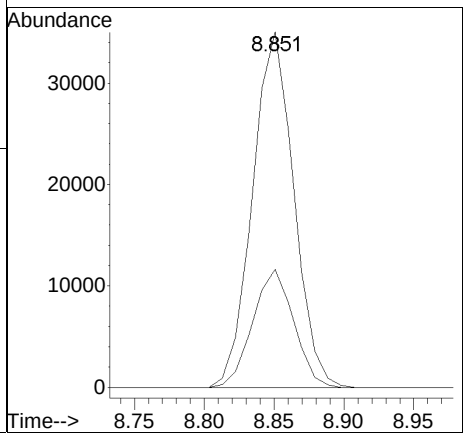


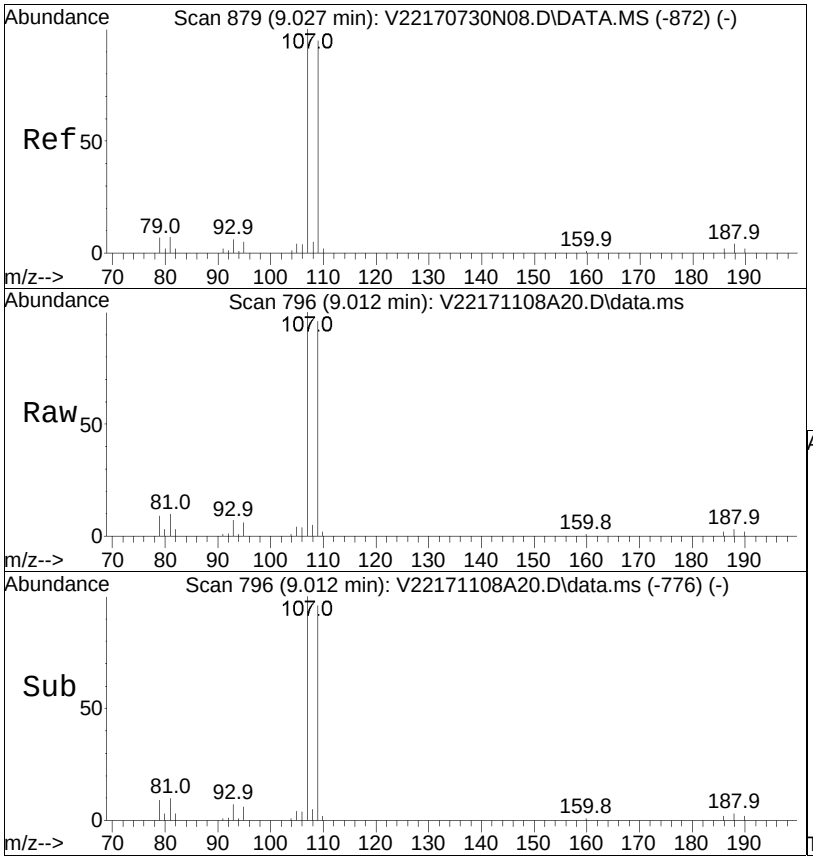


#73
1,3-Dichloropropane
Concen: 10.04 ug/L
RT: 8.851 min Scan# 779
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 76 Resp: 72019

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.7	38.5

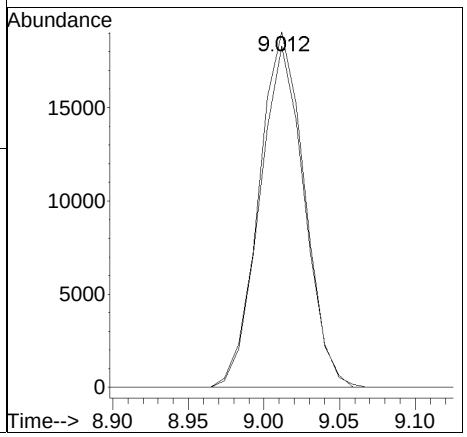


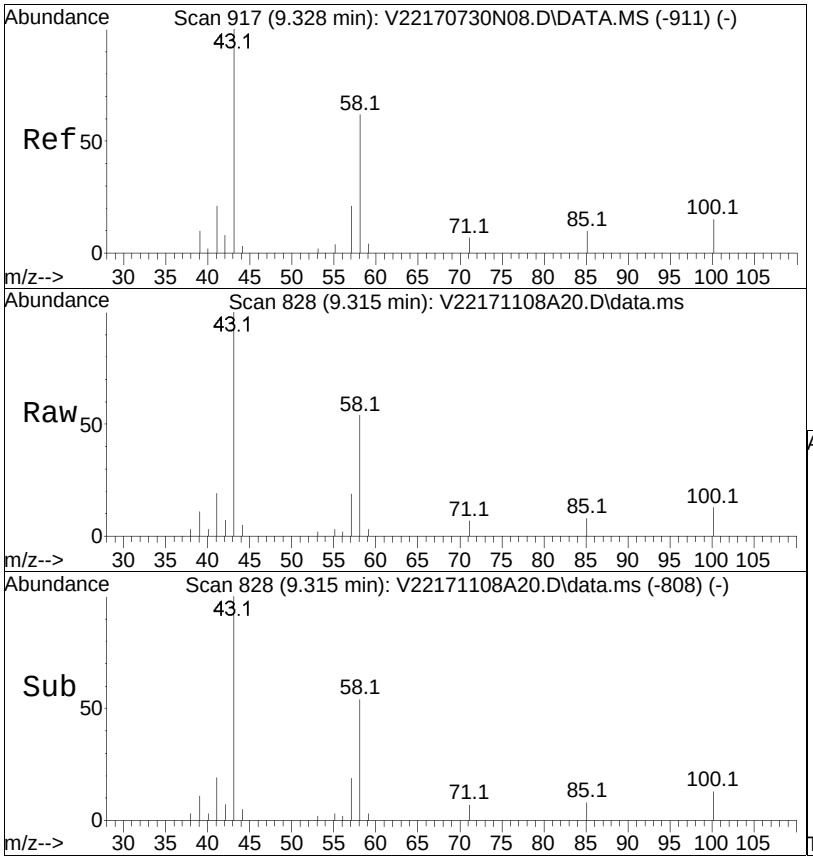


#74
1,2-Dibromoethane
Concen: 8.93 ug/L
RT: 9.012 min Scan# 796
Delta R.T. -0.015 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:107 Resp: 40021

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.1	112.7

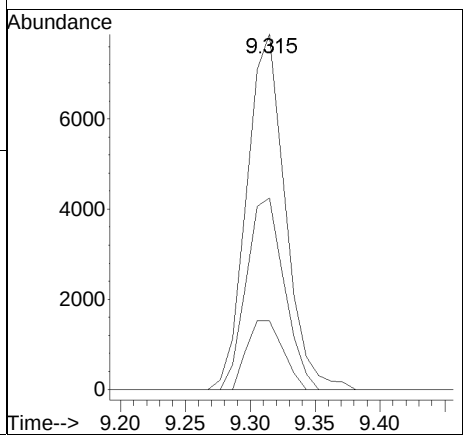


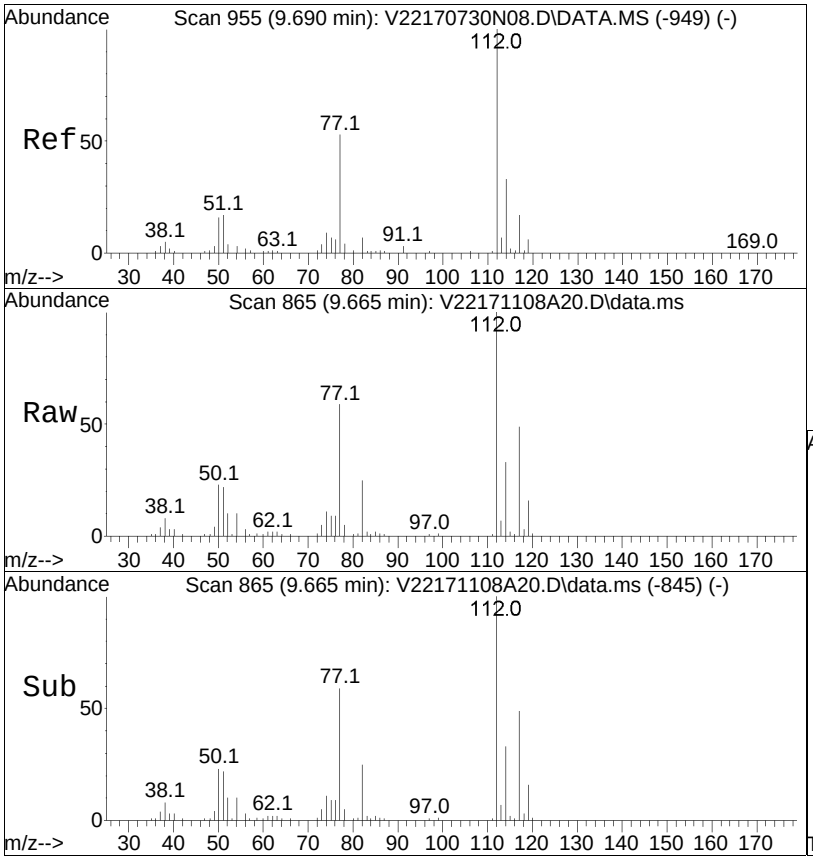


#76
2-Hexanone
Concen: 10.27 ug/L
RT: 9.315 min Scan# 828
Delta R.T. -0.013 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 43 Resp: 16314

Ion	Ratio	Lower	Upper
43	100		
58	53.0	47.6	71.4
57	18.0	16.6	24.8

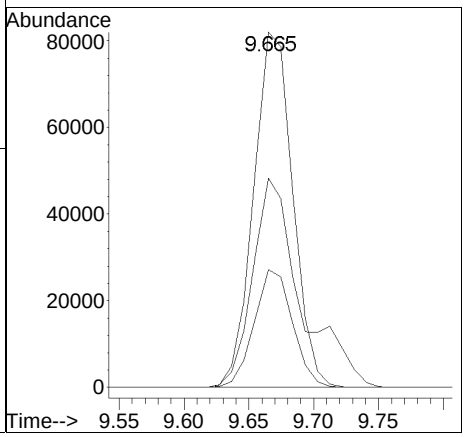


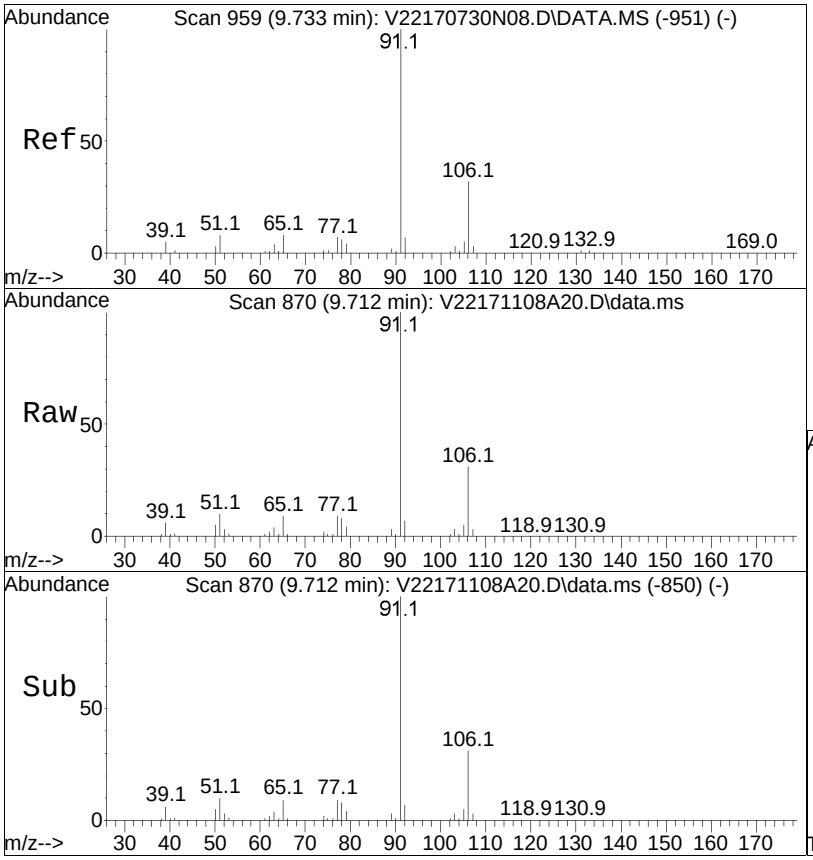


#77
Chlorobenzene
Concen: 9.91 ug/L
RT: 9.665 min Scan# 865
Delta R.T. -0.015 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:112 Resp: 172284

Ion	Ratio	Lower	Upper
112	100		
77	72.6	55.4	83.0
114	32.5	26.2	39.4

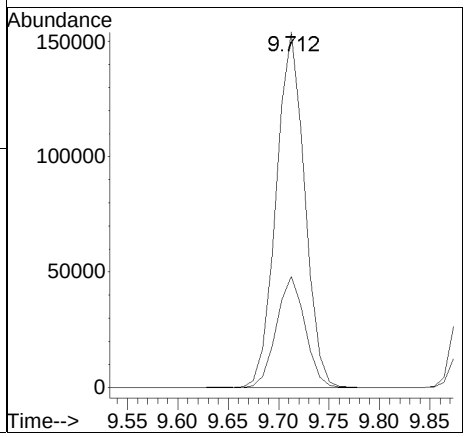


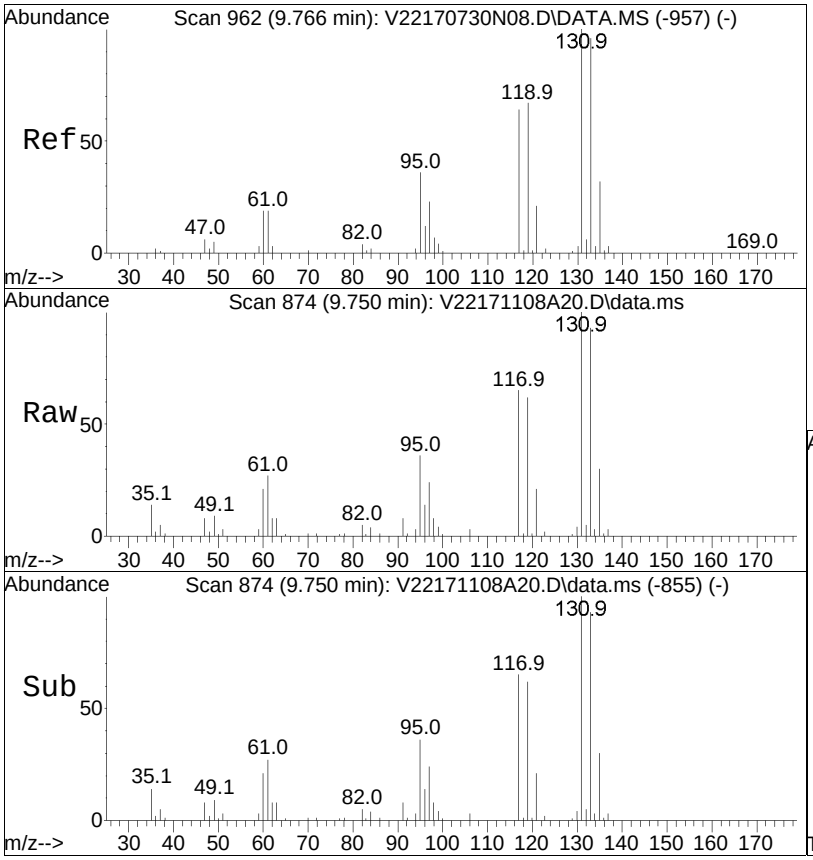


#78
Ethylbenzene
Concen: 10.28 ug/L
RT: 9.712 min Scan# 870
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 91 Resp: 301956

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.8	38.6

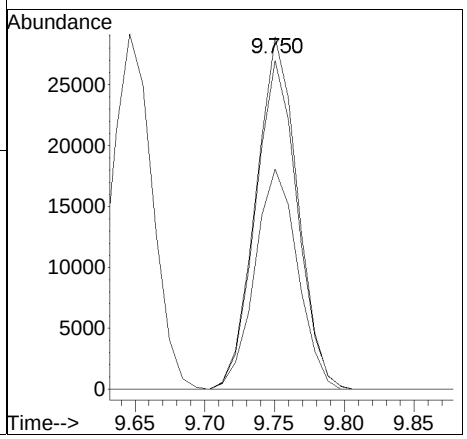


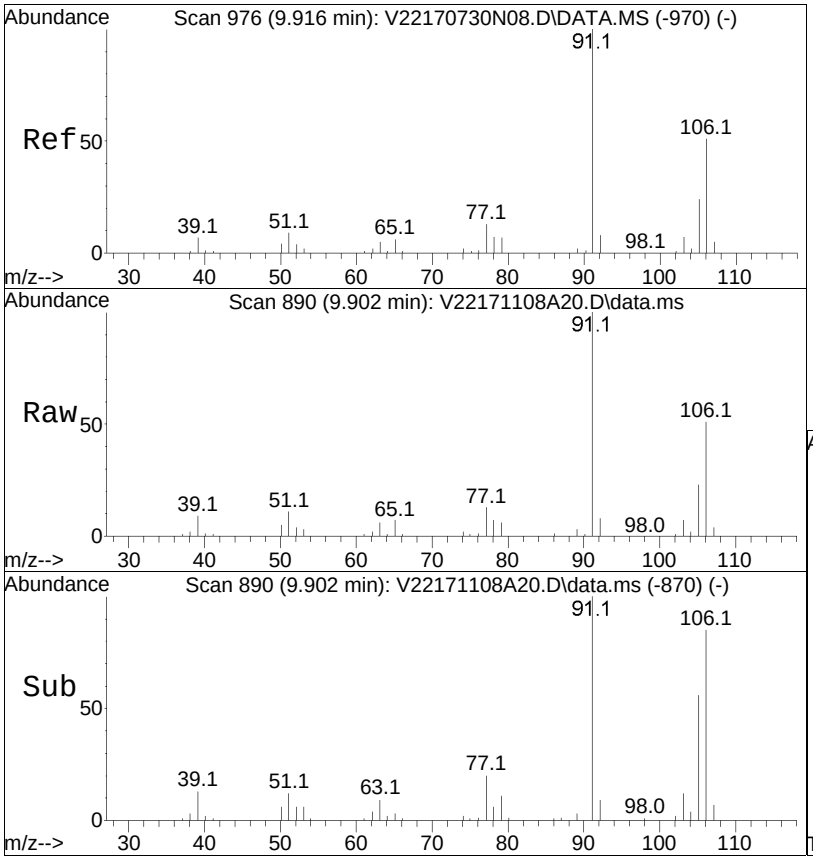


#79
1,1,1,2-Tetrachloroethane
Concen: 9.97 ug/L
RT: 9.750 min Scan# 874
Delta R.T. -0.016 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:131 Resp: 60422

Ion	Ratio	Lower	Upper
131	100		
133	93.8	75.3	115.3
119	64.2	49.3	89.3

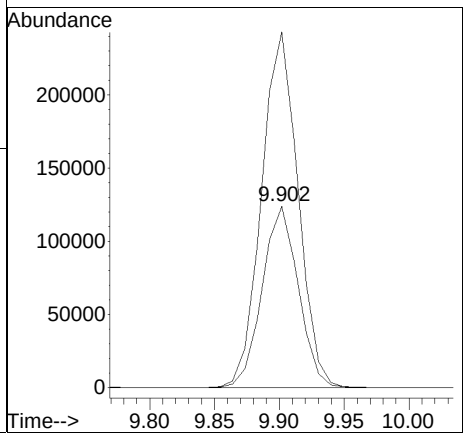


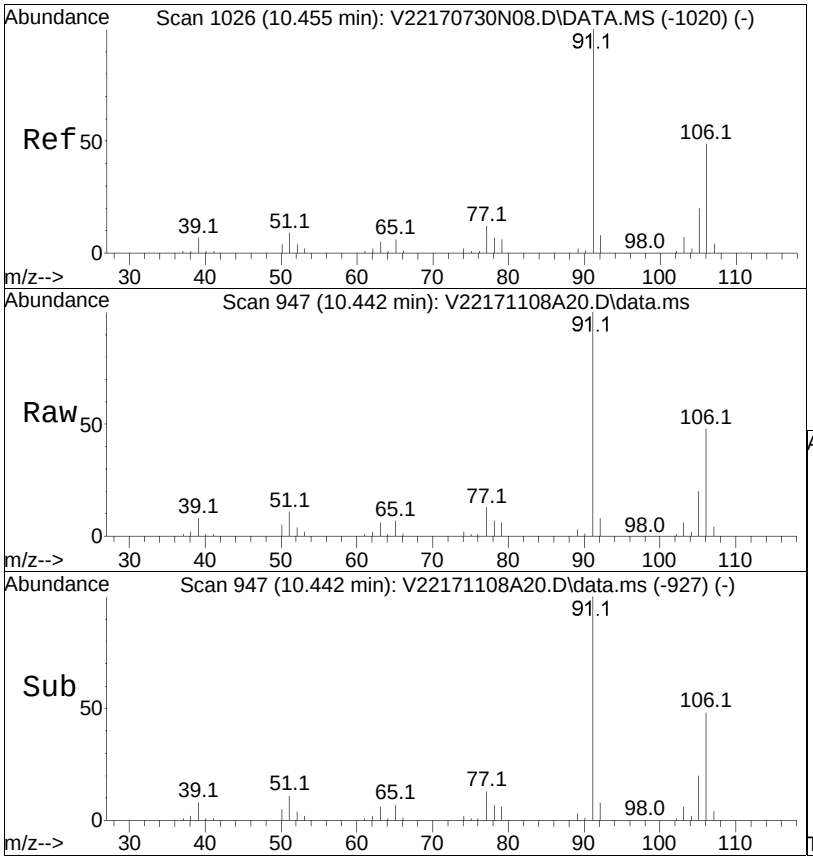


#80
p/m Xylene
Concen: 20.34 ug/L
RT: 9.902 min Scan# 890
Delta R.T. -0.014 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:106 Resp: 239347

Ion	Ratio	Lower	Upper
106	100		
91	198.1	156.0	234.0

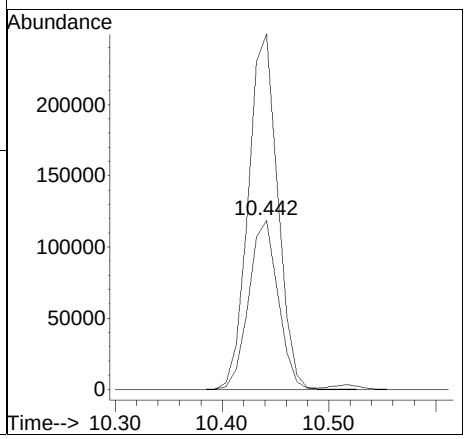


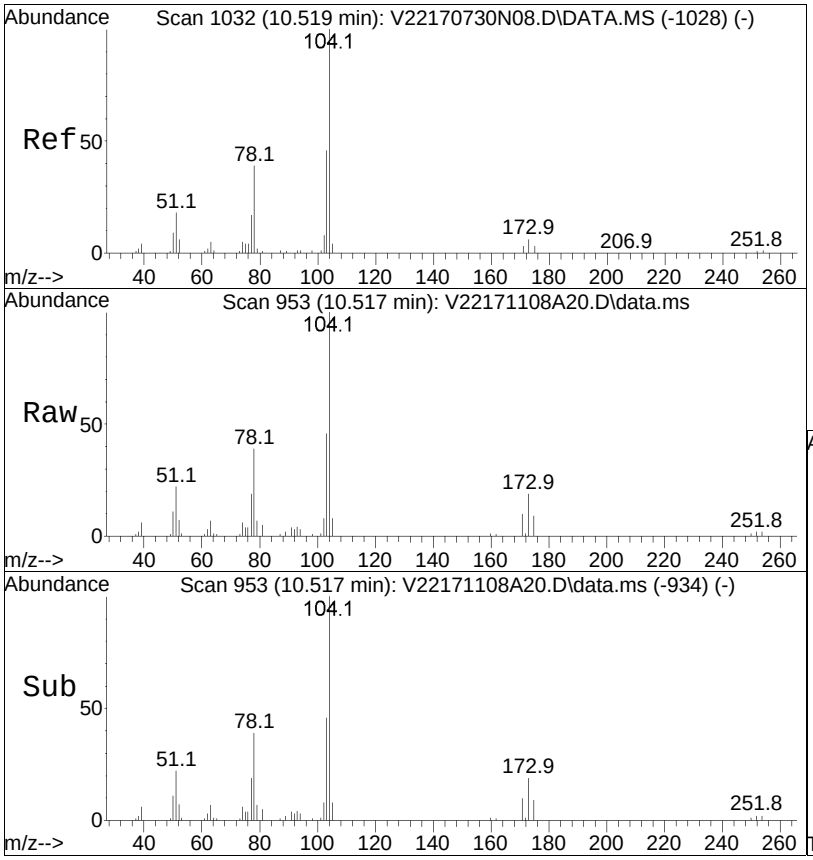


#81
o Xylene
Concen: 23.82 ug/L
RT: 10.442 min Scan# 947
Delta R.T. -0.013 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:106 Resp: 257210

Ion	Ratio	Lower	Upper
106	100		
91	185.9	164.0	246.0

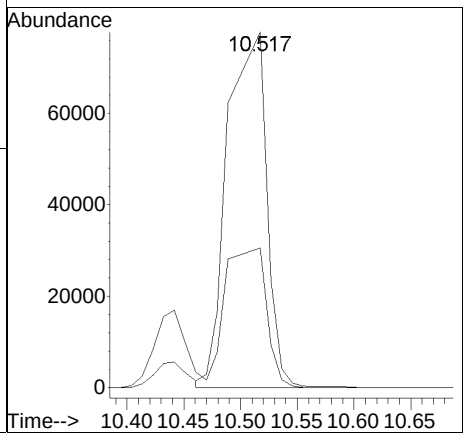


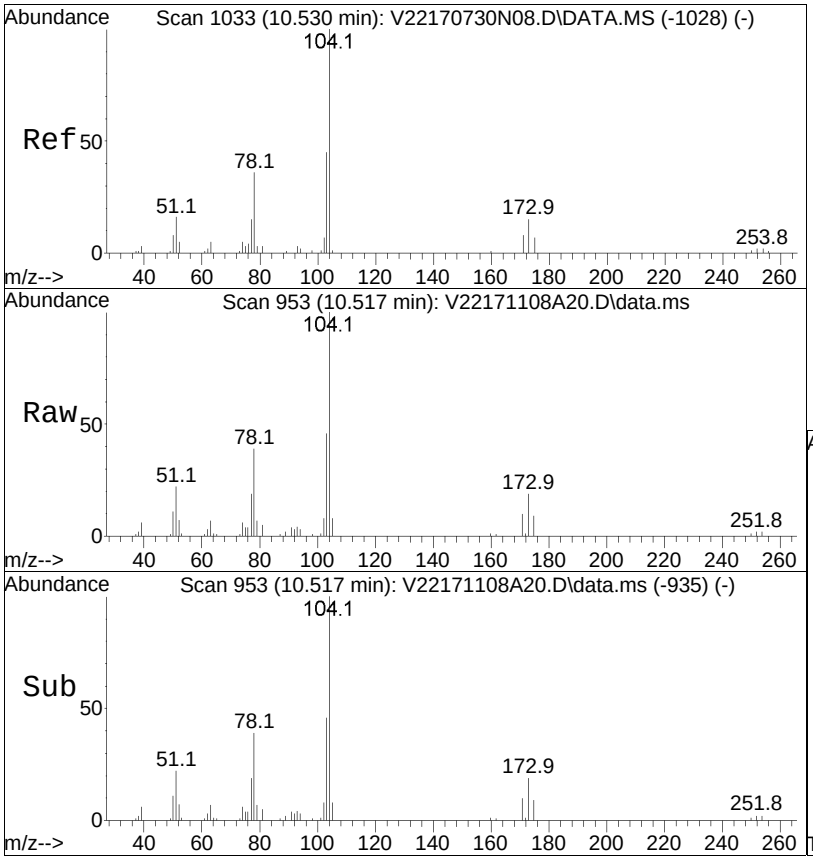


#82
Styrene
Concen: 7.06 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.002 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:104 Resp: 122975

Ion	Ratio	Lower	Upper
104	100		
78	44.9	32.1	48.1

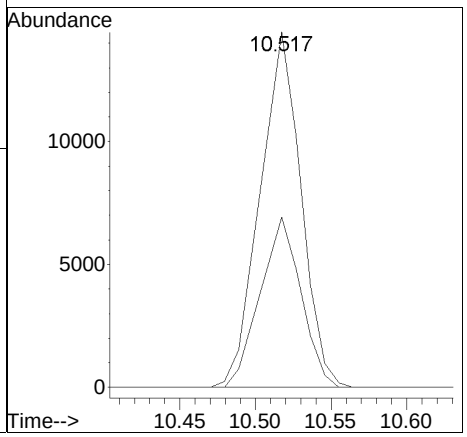


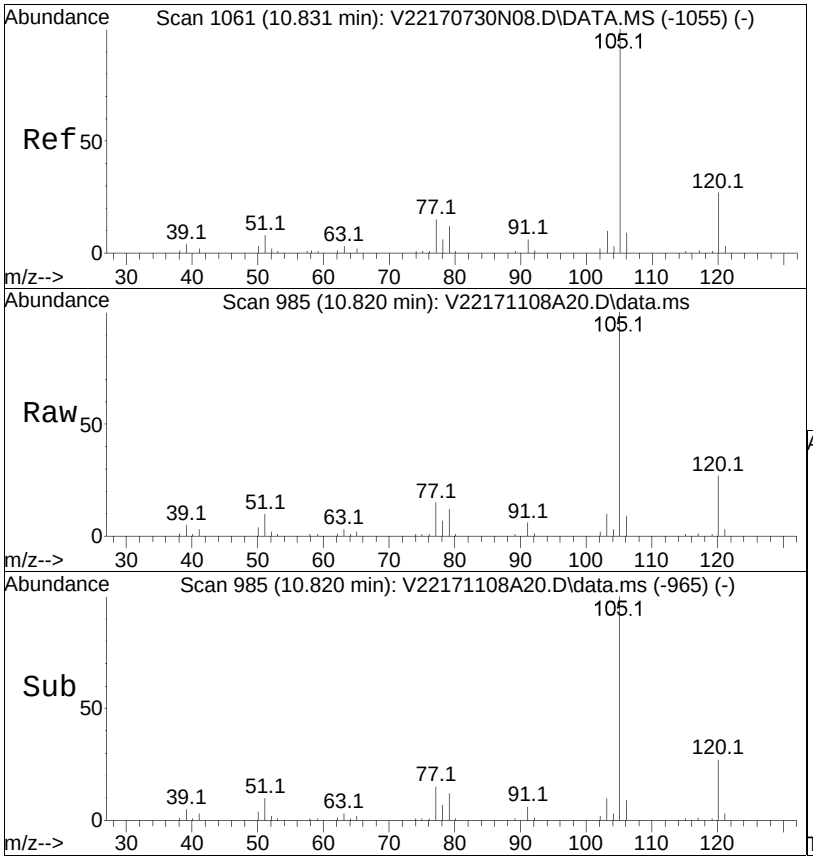


#84
Bromoform
Concen: 5.98 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.013 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:173 Resp: 21706

Ion	Ratio	Lower	Upper
173	100		
175	49.5	29.3	69.3

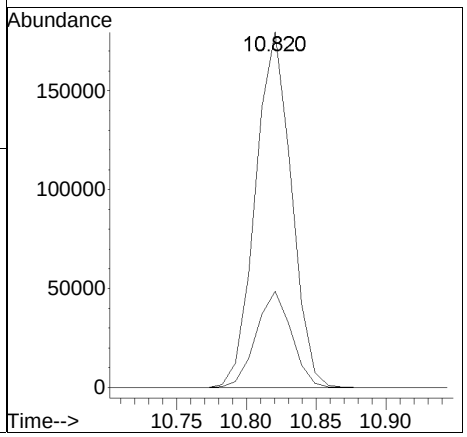


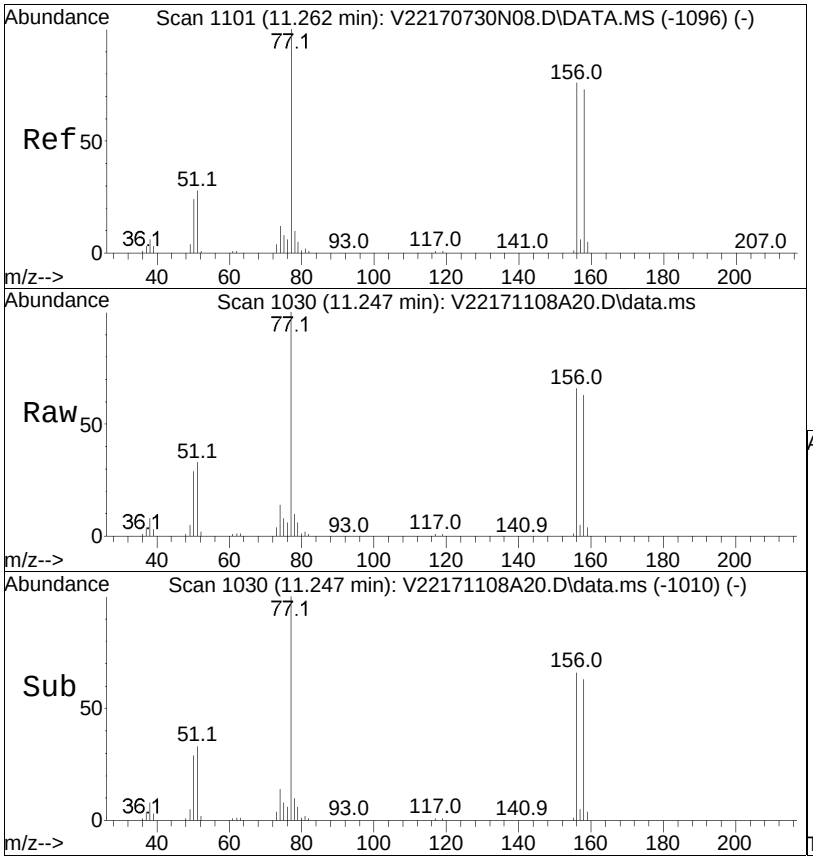


#86
Isopropylbenzene
Concen: 10.85 ug/L
RT: 10.820 min Scan# 985
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:105 Resp: 320582

Ion	Ratio	Lower	Upper
105	100		
120	26.6	7.7	47.7

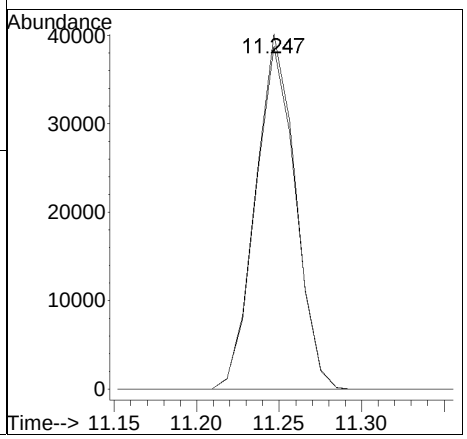


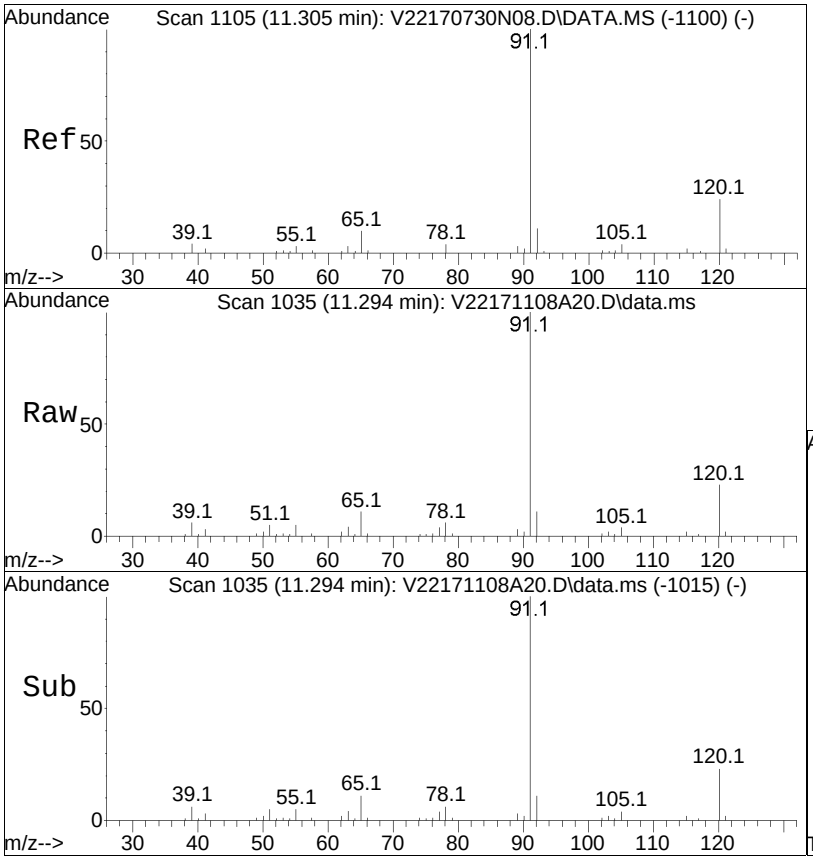


#88
Bromobenzene
Concen: 9.46 ug/L
RT: 11.247 min Scan# 1030
Delta R.T. -0.015 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:156 Resp: 67660

Ion	Ratio	Lower	Upper
156	100		
158	97.2	77.9	116.9

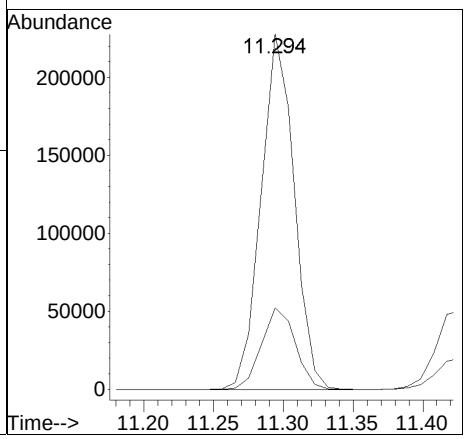


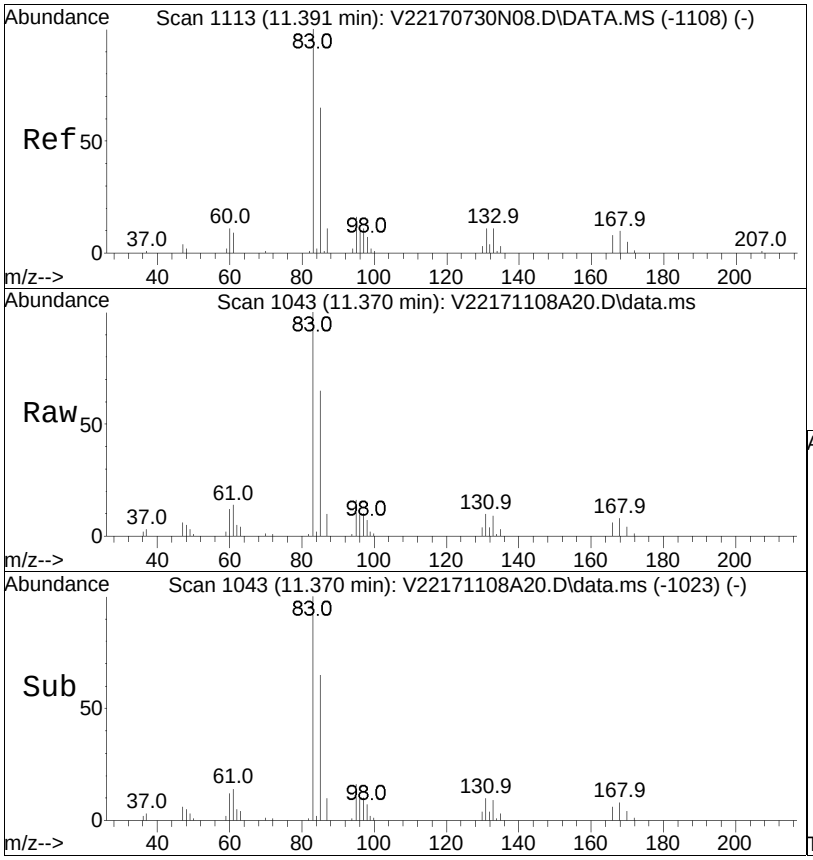


#89
n-Propylbenzene
Concen: 11.15 ug/L
RT: 11.294 min Scan# 1035
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 91 Resp: 375186

Ion	Ratio	Lower	Upper
91	100		
120	23.4	19.5	29.3

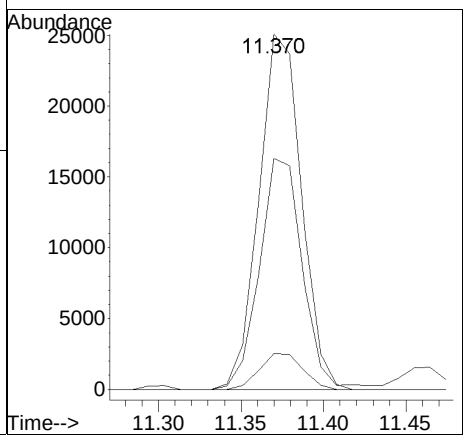


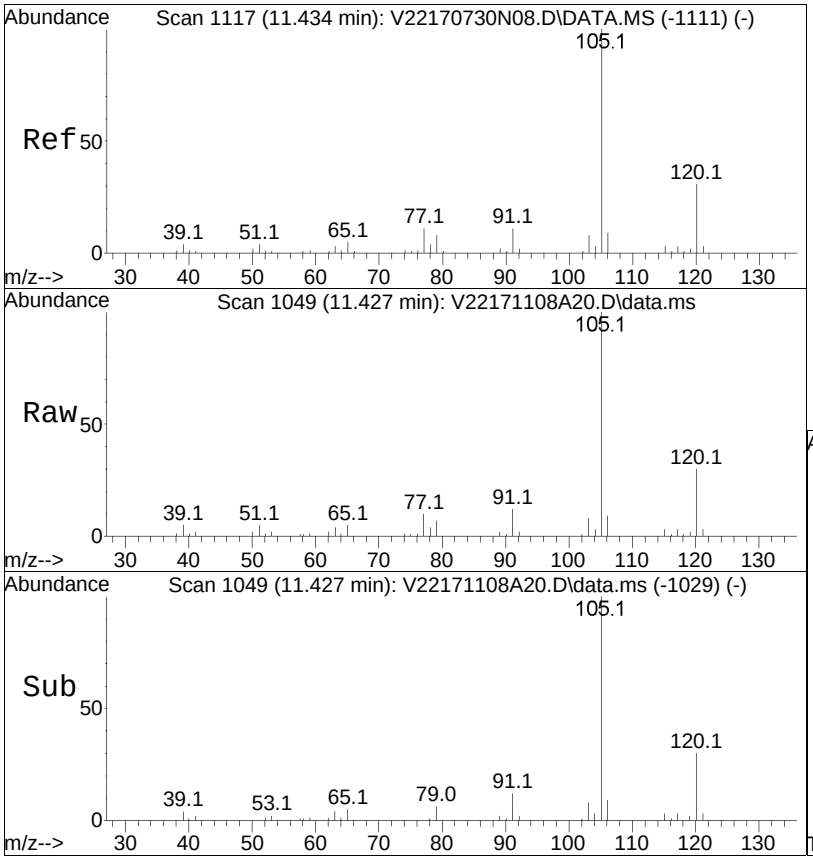


#91
1,1,2,2-Tetrachloroethane
Concen: 10.26 ug/L
RT: 11.370 min Scan# 1043
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 83 Resp: 44993

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	30.8
85	65.6	45.4	85.4

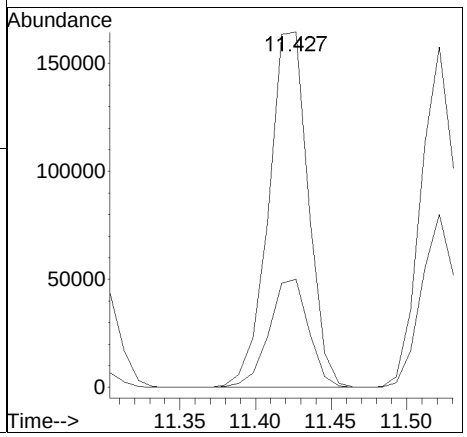


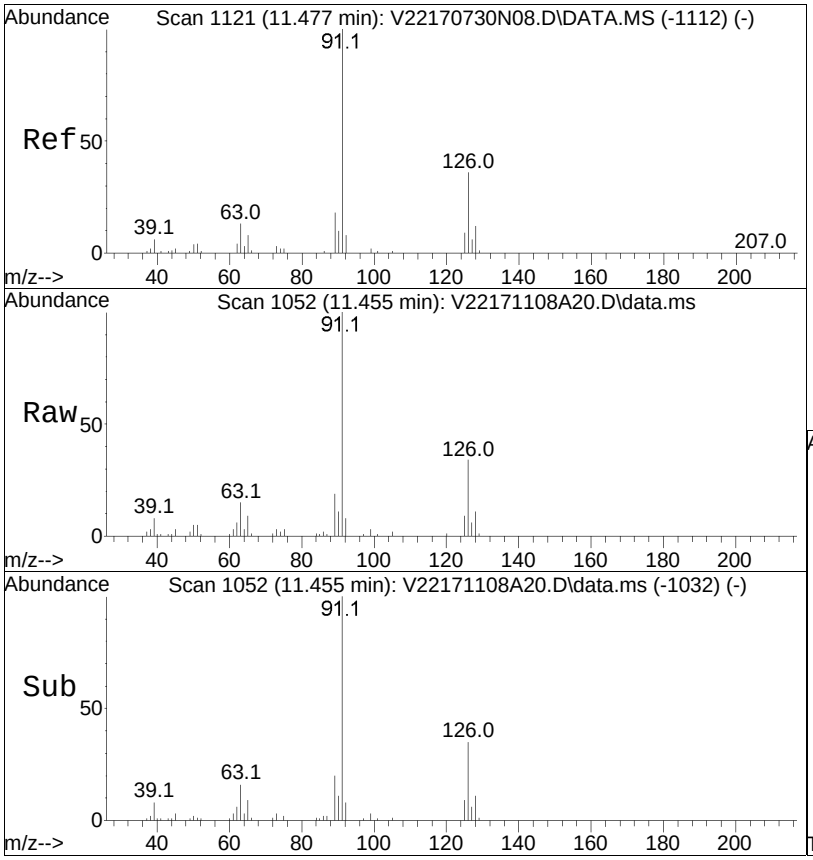


#92
4-Ethyltoluene
Concen: 11.09 ug/L
RT: 11.427 min Scan# 1049
Delta R.T. -0.007 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:105 Resp: 300433

Ion	Ratio	Lower	Upper
105	100		
120	30.3	19.8	41.0

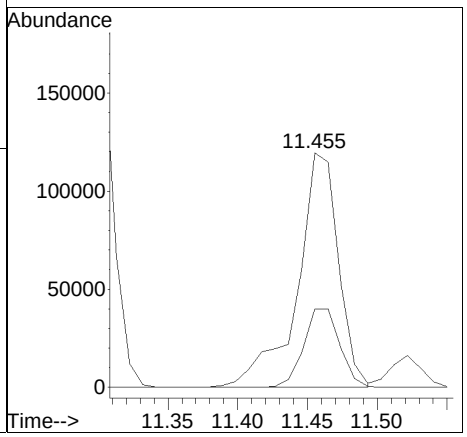


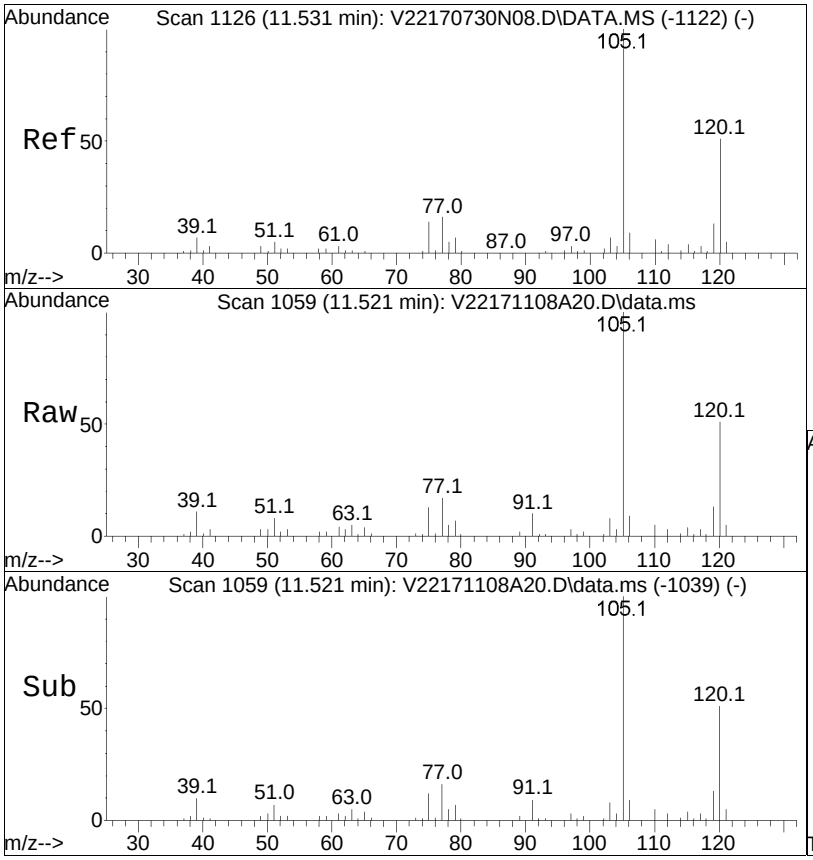


#93
2-Chlorotoluene
Concen: 11.33 ug/L
RT: 11.455 min Scan# 1052
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 91 Resp: 246255

Ion	Ratio	Lower	Upper
91	100		
126	29.3	24.6	37.0

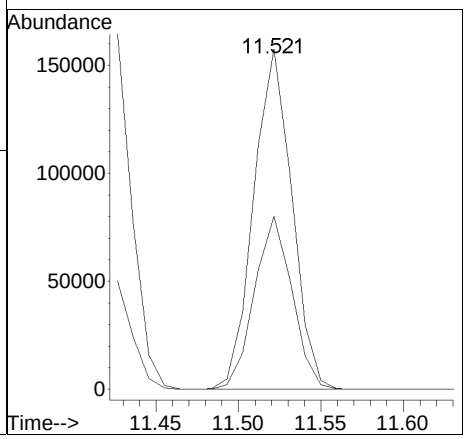


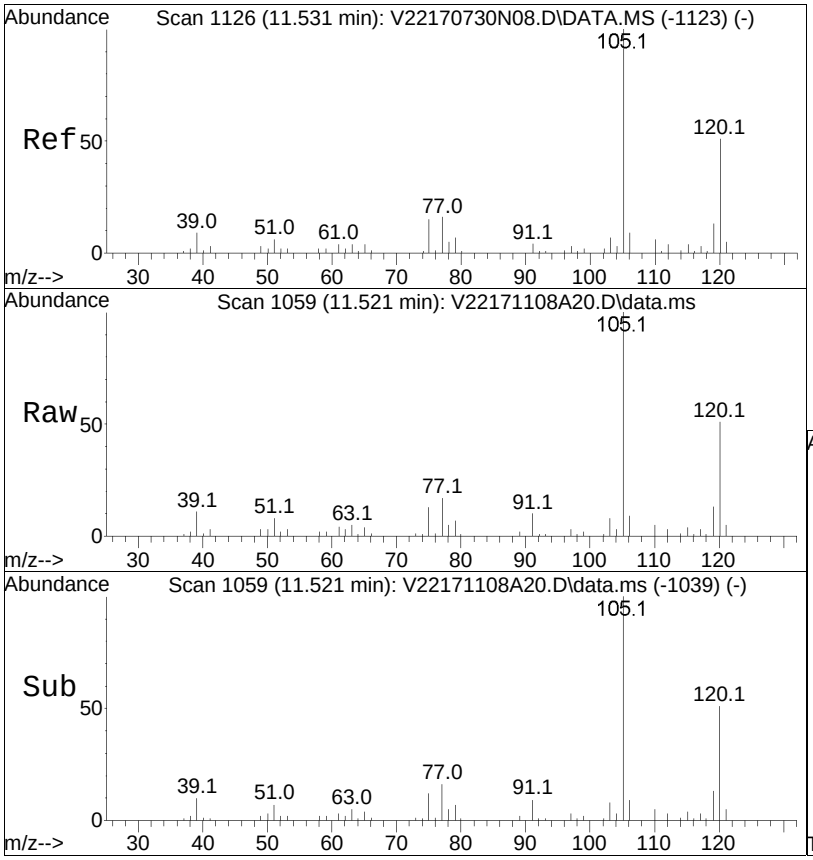


#94
1,3,5-Trimethylbenzene
Concen: 10.99 ug/L
RT: 11.521 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:105 Resp: 254384

Ion	Ratio	Lower	Upper
105	100		
120	50.2	40.9	61.3

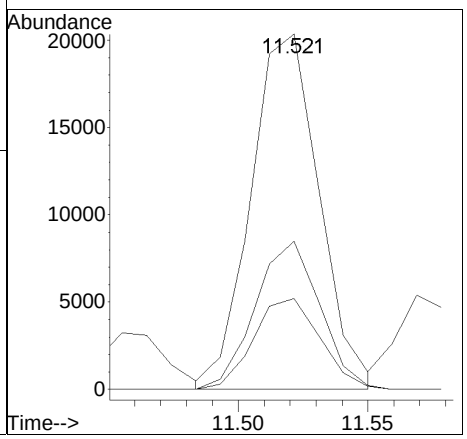


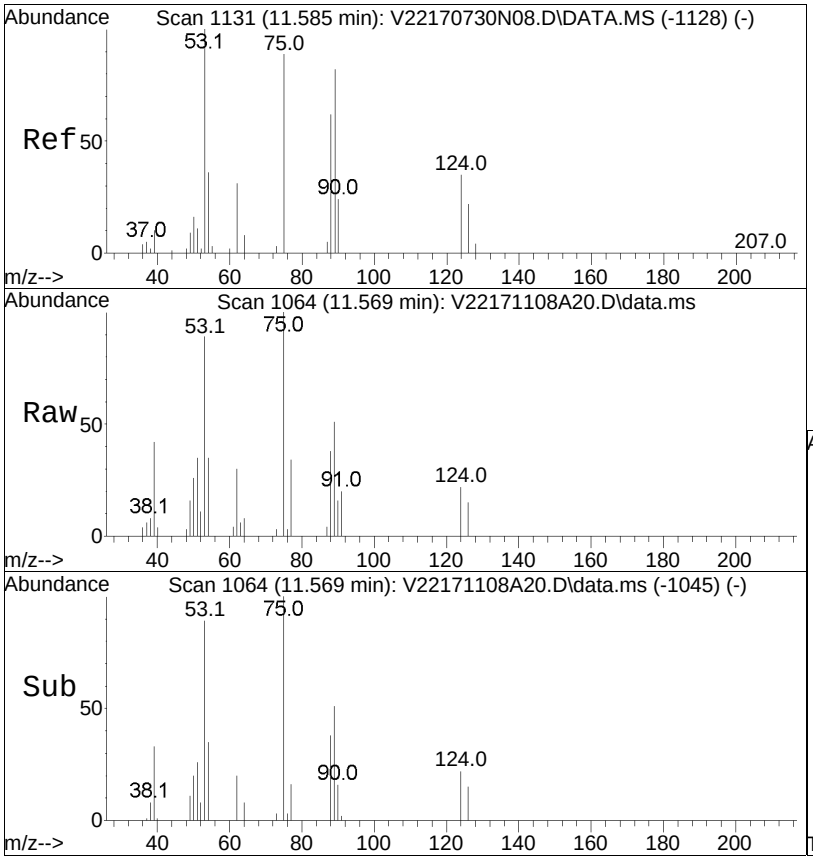


#95
1,2,3-Trichloropropane
Concen: 10.60 ug/L
RT: 11.521 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 75 Resp: 37310

Ion	Ratio	Lower	Upper
75	100		
110	39.5	26.3	54.7
112	25.0	16.8	35.0

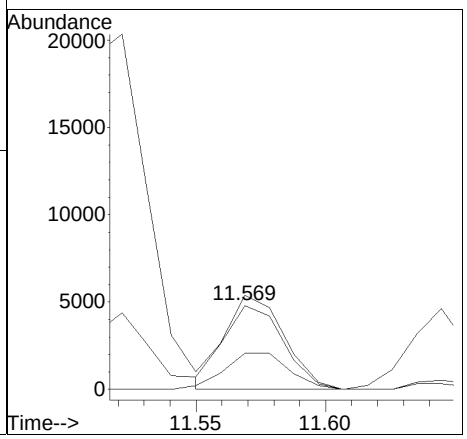


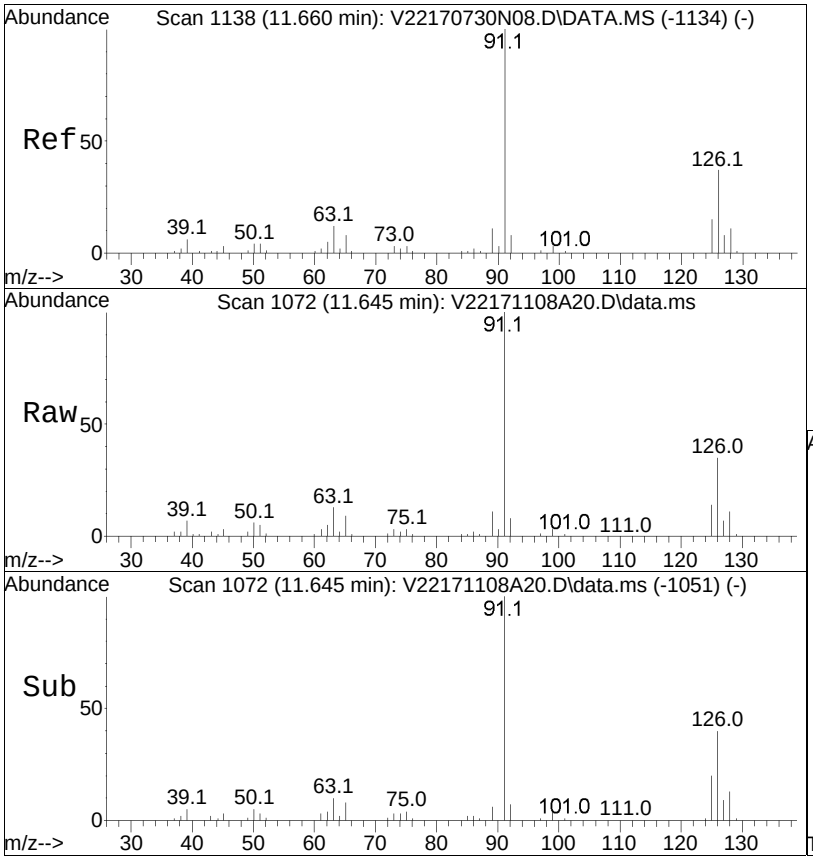


#96
trans-1,4-Dichloro-2-butene
Concen: 6.98 ug/L
RT: 11.569 min Scan# 1064
Delta R.T. -0.016 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 53 Resp: 7719

Ion	Ratio	Lower	Upper
53	100		
88	47.2	46.3	69.5
75	111.3	109.0	163.4

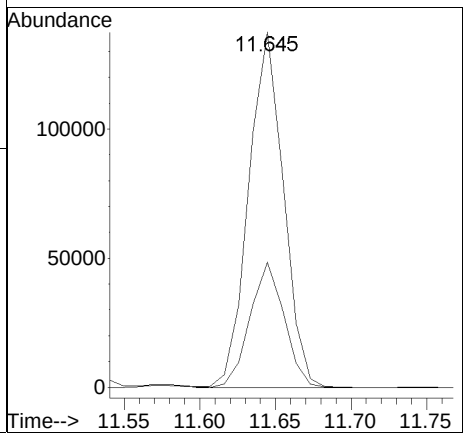


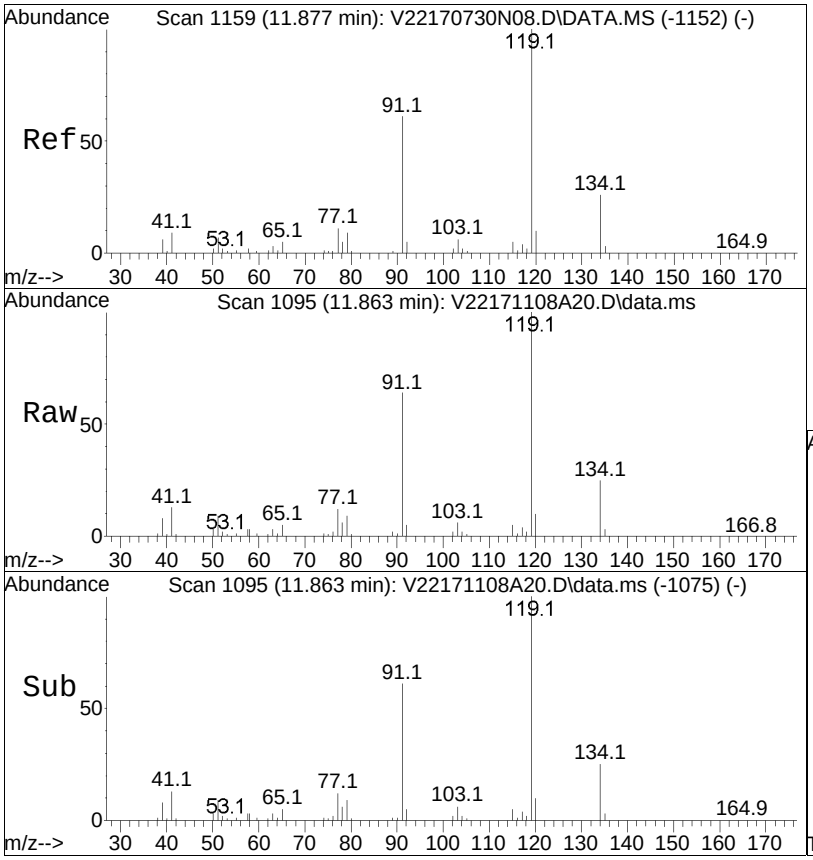


#97
4-Chlorotoluene
Concen: 11.15 ug/L
RT: 11.645 min Scan# 1072
Delta R.T. -0.004 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 91 Resp: 220759

Ion	Ratio	Lower	Upper
91	100		
126	34.5	28.5	42.7

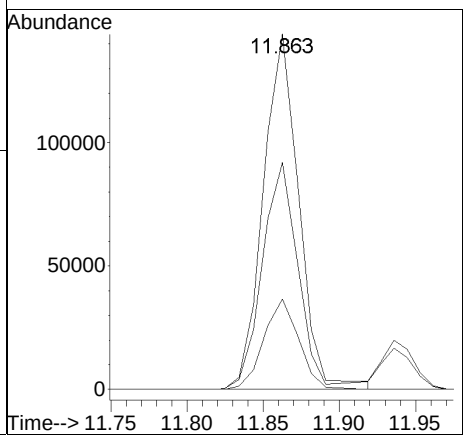


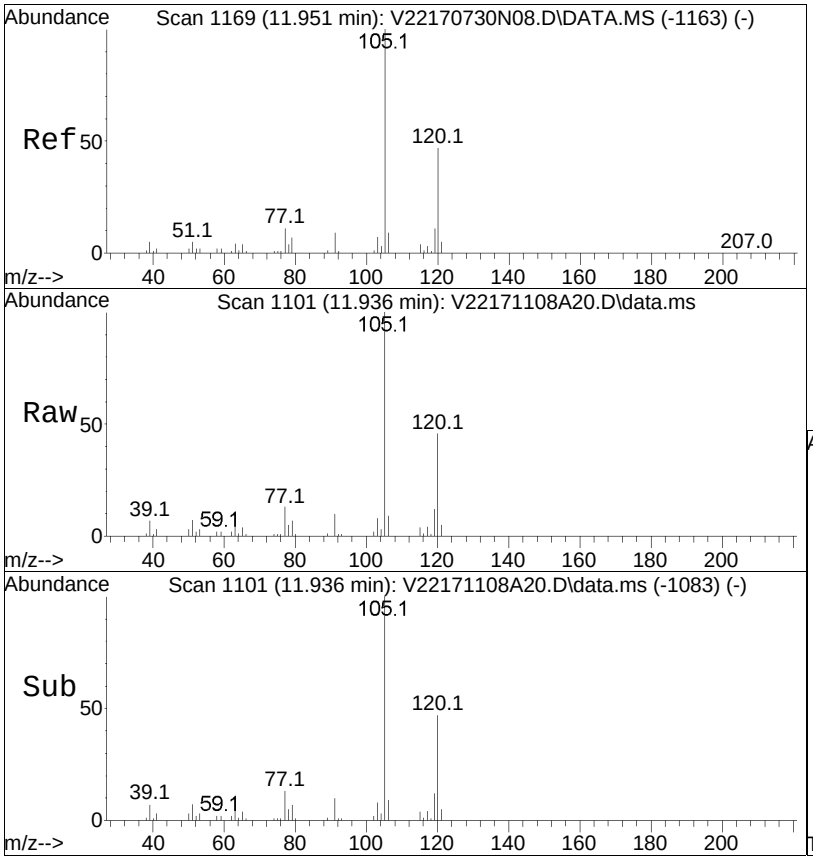


#98
tert-Butylbenzene
Concen: 12.95 ug/L
RT: 11.863 min Scan# 1095
Delta R.T. -0.007 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:119 Resp: 274853

Ion	Ratio	Lower	Upper
119	100		
91	53.7	50.2	75.4
134	25.0	20.8	31.2

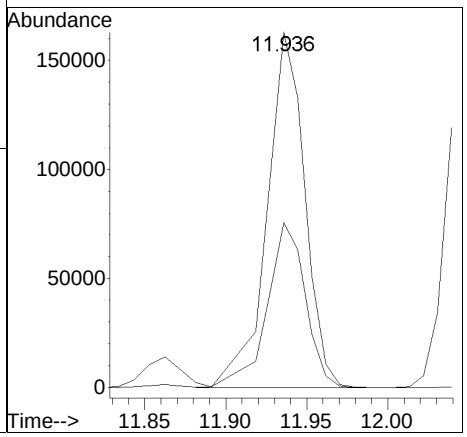


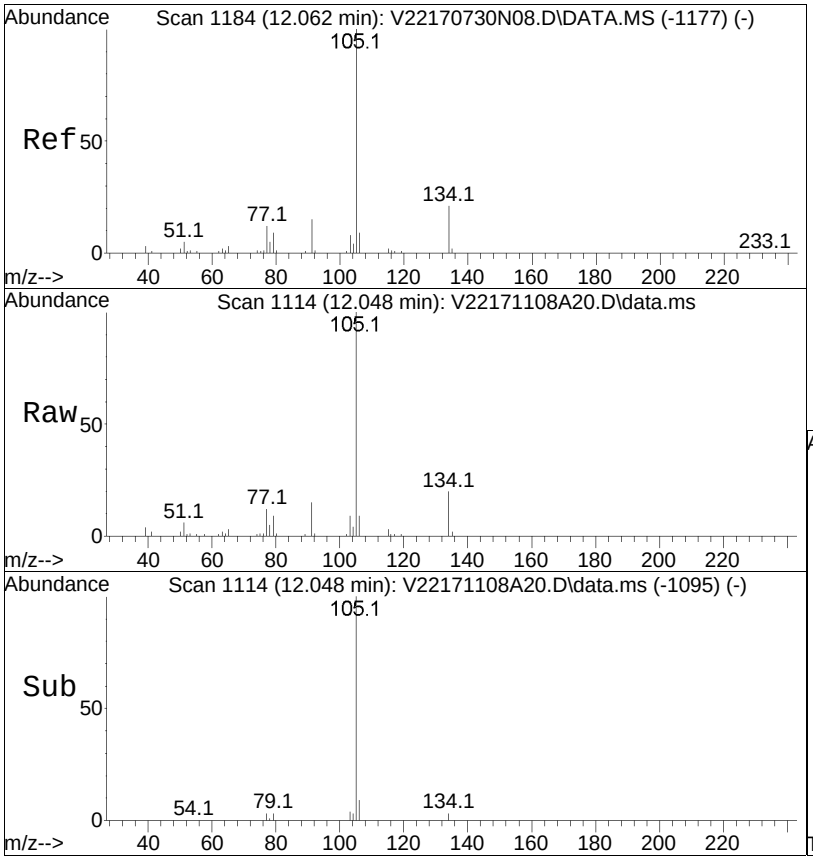


#101
1,2,4-Trimethylbenzene
Concen: 13.17 ug/L
RT: 11.936 min Scan# 1101
Delta R.T. -0.015 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:105 Resp: 305153

Ion	Ratio	Lower	Upper
105	100		
120	47.4	38.5	57.7

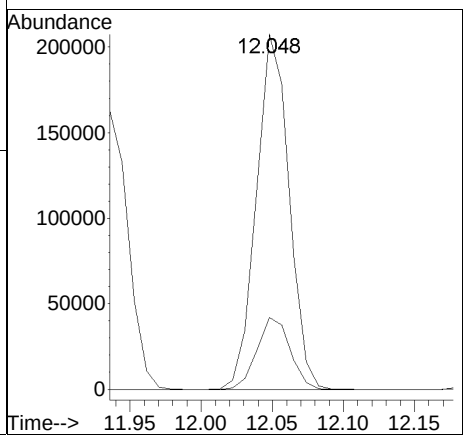


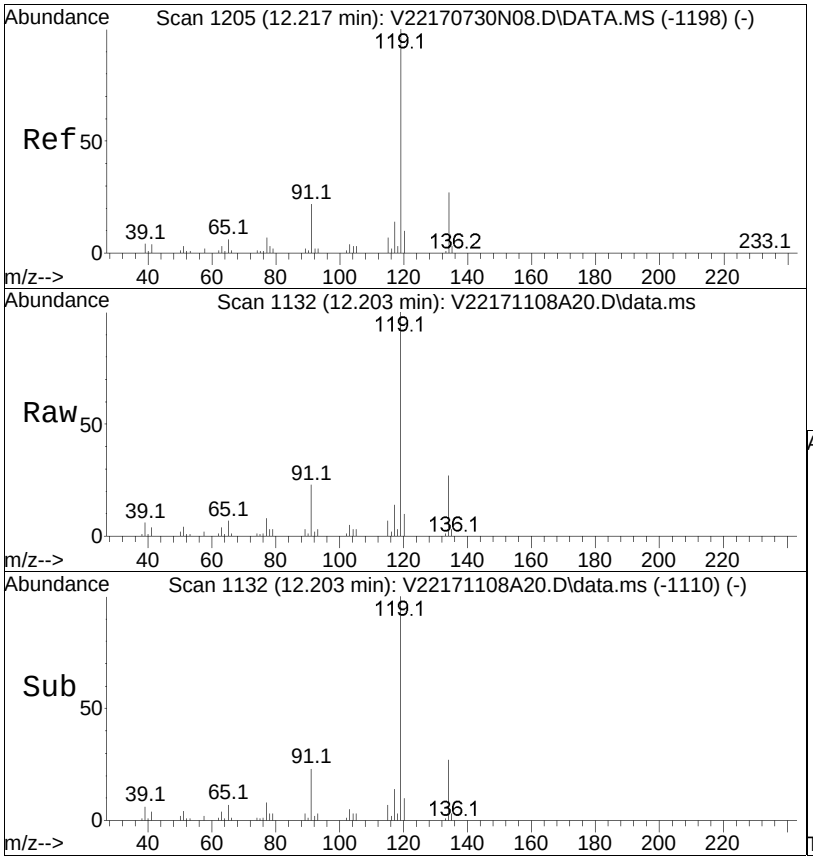


#102
sec-Butylbenzene
Concen: 11.04 ug/L
RT: 12.048 min Scan# 1114
Delta R.T. -0.014 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:105 Resp: 331706

Ion	Ratio	Lower	Upper
105	100		
134	20.5	13.9	28.9

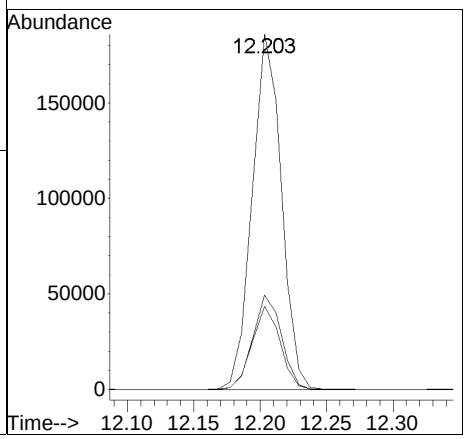


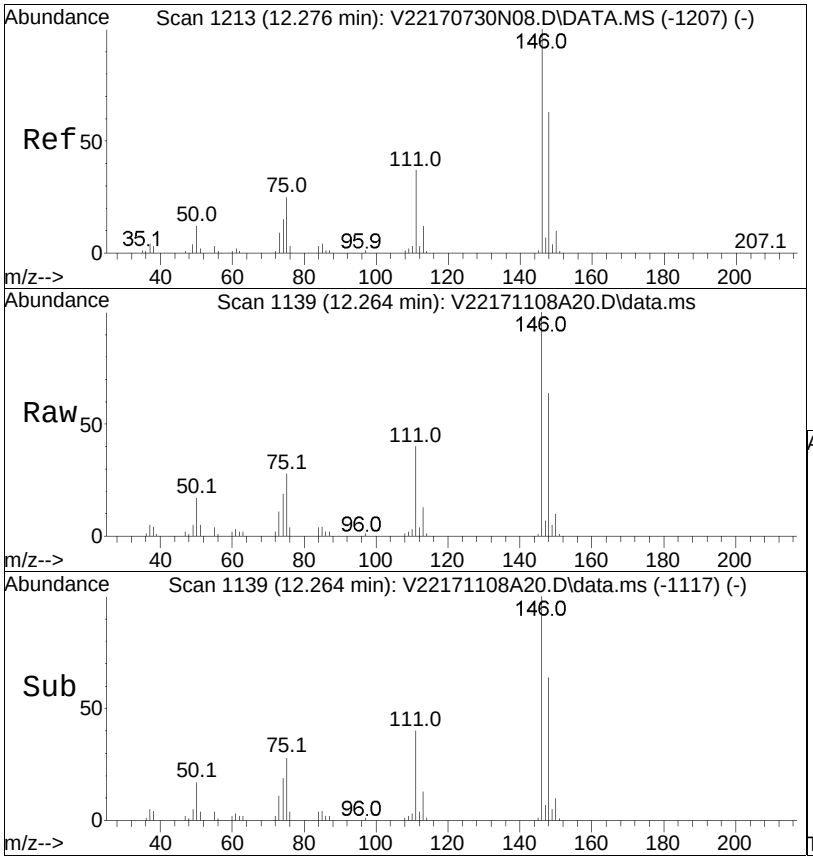


#103
p-Isopropyltoluene
Concen: 10.88 ug/L
RT: 12.203 min Scan# 1132
Delta R.T. -0.014 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:119 Resp: 283572

Ion	Ratio	Lower	Upper
119	100		
134	26.1	17.7	36.7
91	22.7	14.1	29.3

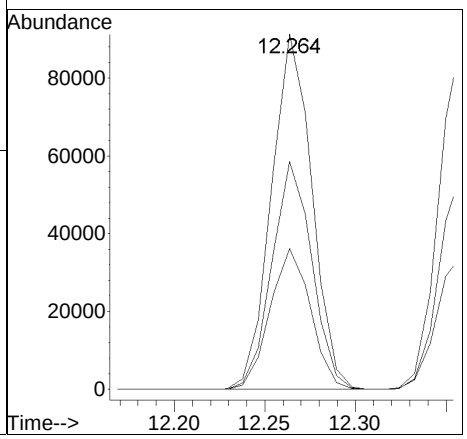


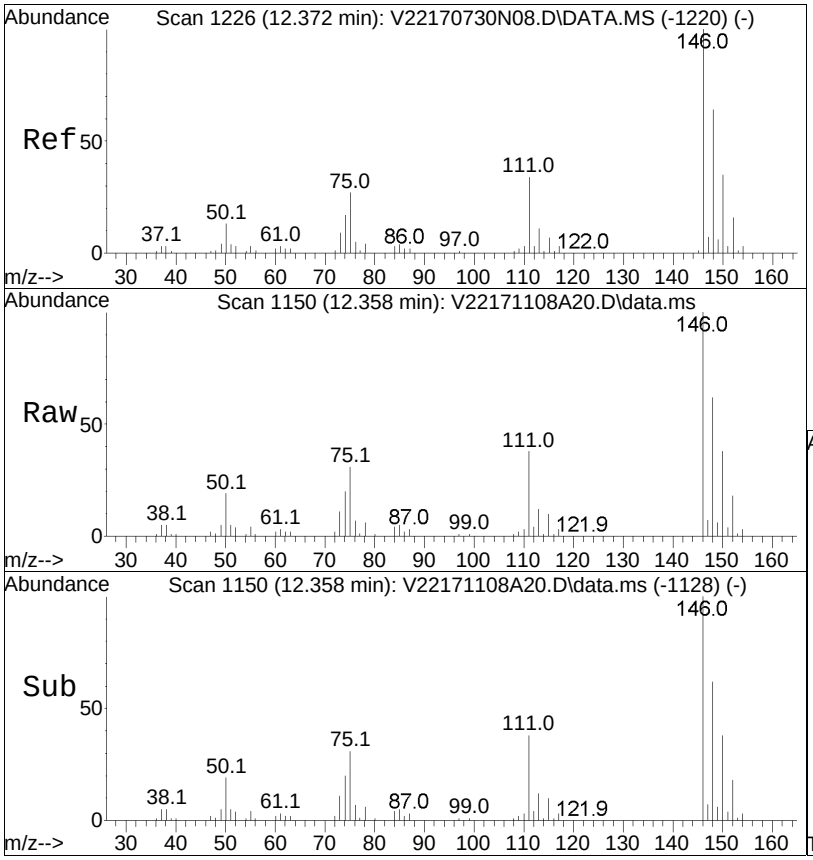


#104
1,3-Dichlorobenzene
Concen: 10.26 ug/L
RT: 12.264 min Scan# 1139
Delta R.T. -0.012 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:146 Resp: 142045

Ion	Ratio	Lower	Upper
146	100		
111	39.8	24.0	49.8
148	63.3	41.8	86.8

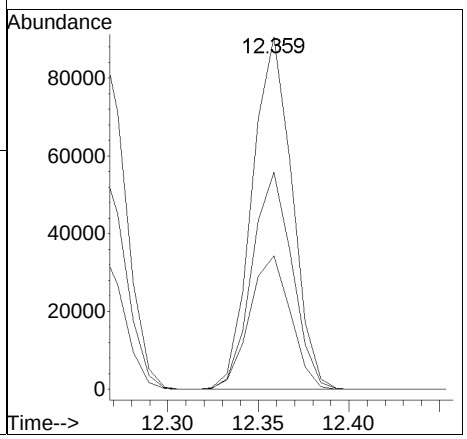


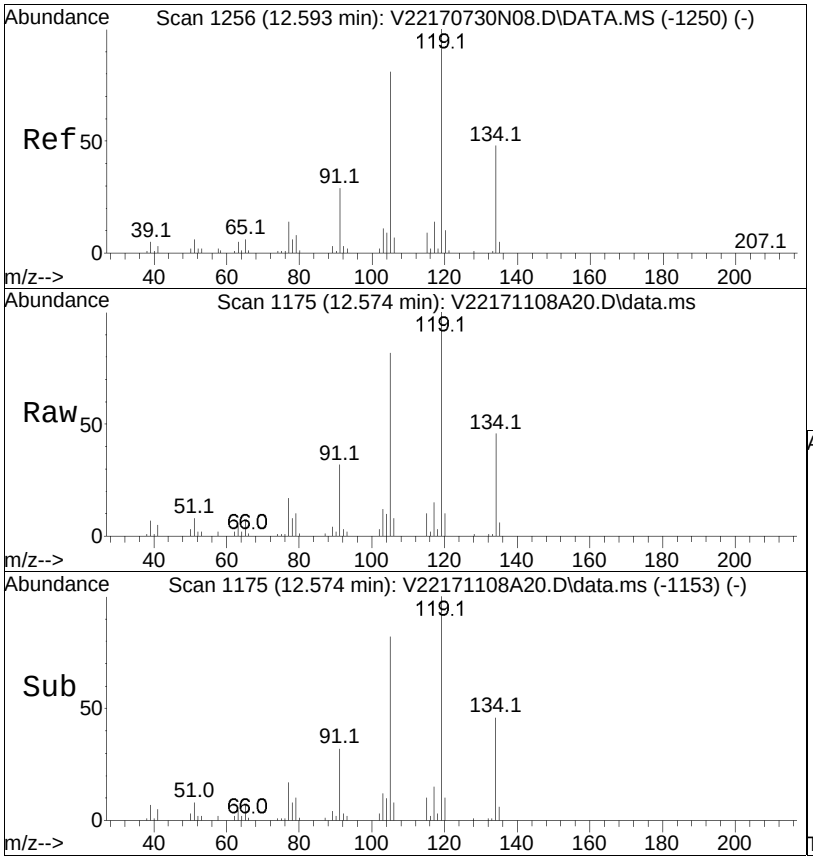


#105
1,4-Dichlorobenzene
Concen: 10.18 ug/L
RT: 12.358 min Scan# 1150
Delta R.T. -0.014 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:146 Resp: 139276

Ion	Ratio	Lower	Upper
146	100		
111	39.0	28.9	43.3
148	62.0	51.4	77.2

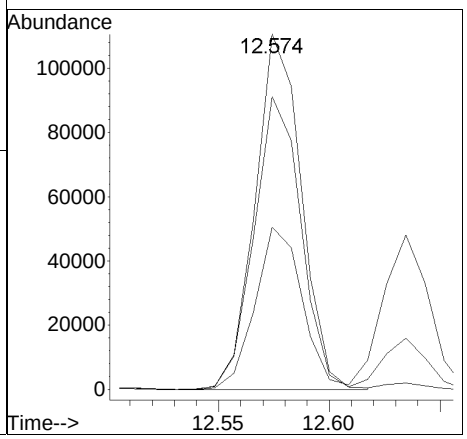


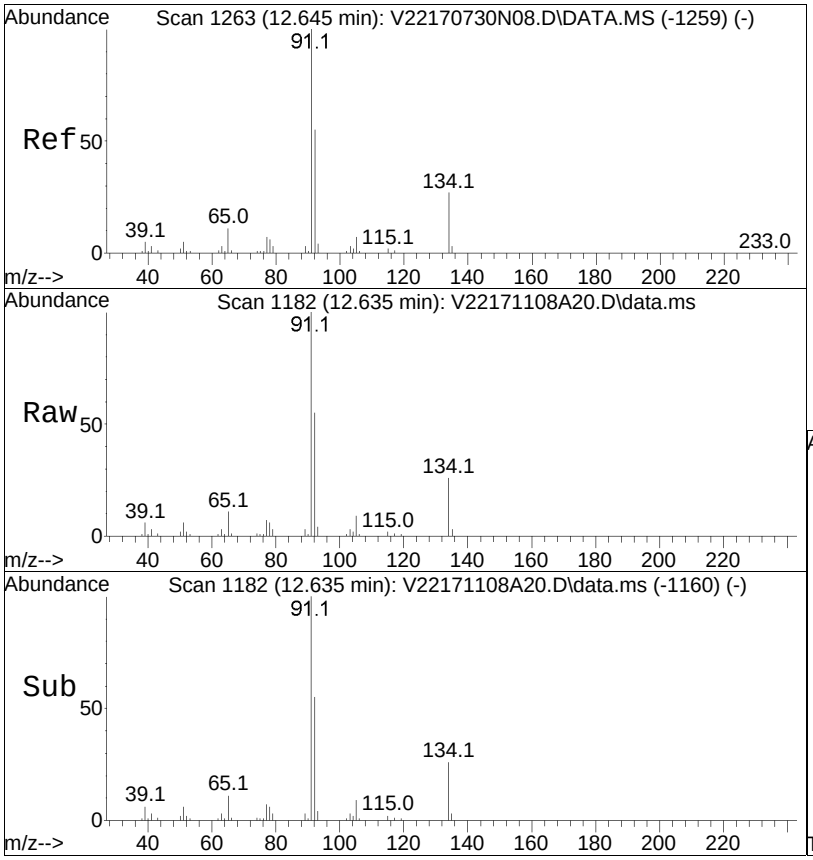


#106
p-Diethylbenzene
Concen: 10.63 ug/L
RT: 12.574 min Scan# 1175
Delta R.T. -0.012 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:119 Resp: 160667

Ion	Ratio	Lower	Upper
119	100		
105	83.7	53.4	110.8
134	46.7	30.9	64.1

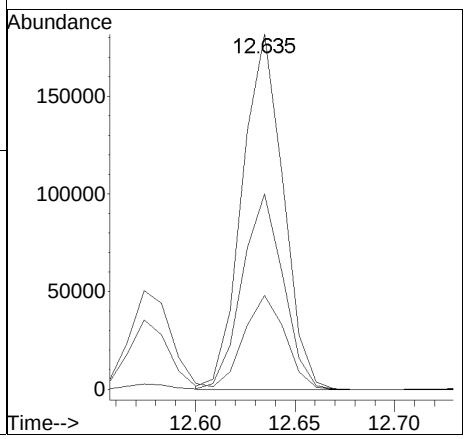


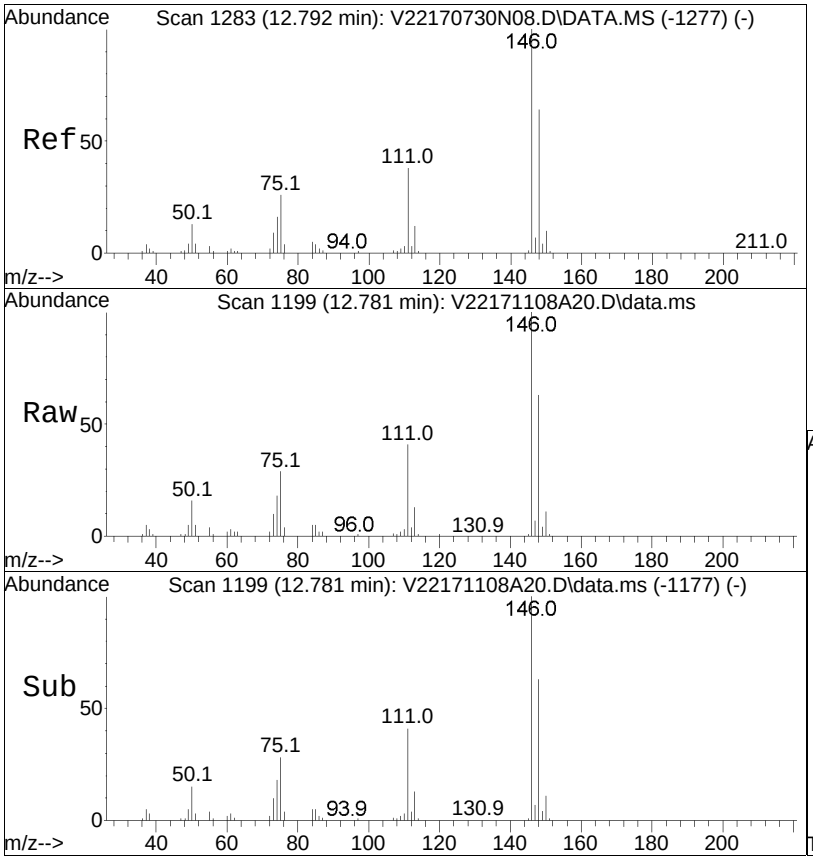


#107
n-Butylbenzene
Concen: 11.44 ug/L
RT: 12.635 min Scan# 1182
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion: 91 Resp: 260683

Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.6	66.8
134	26.5	22.9	34.3

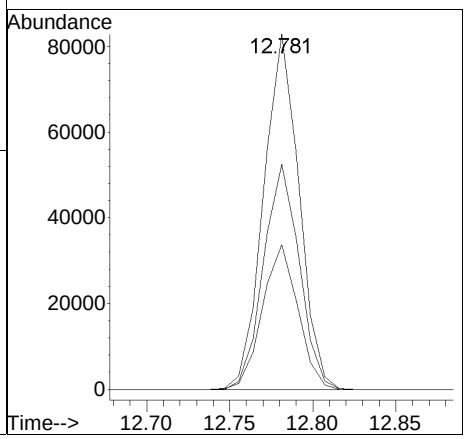


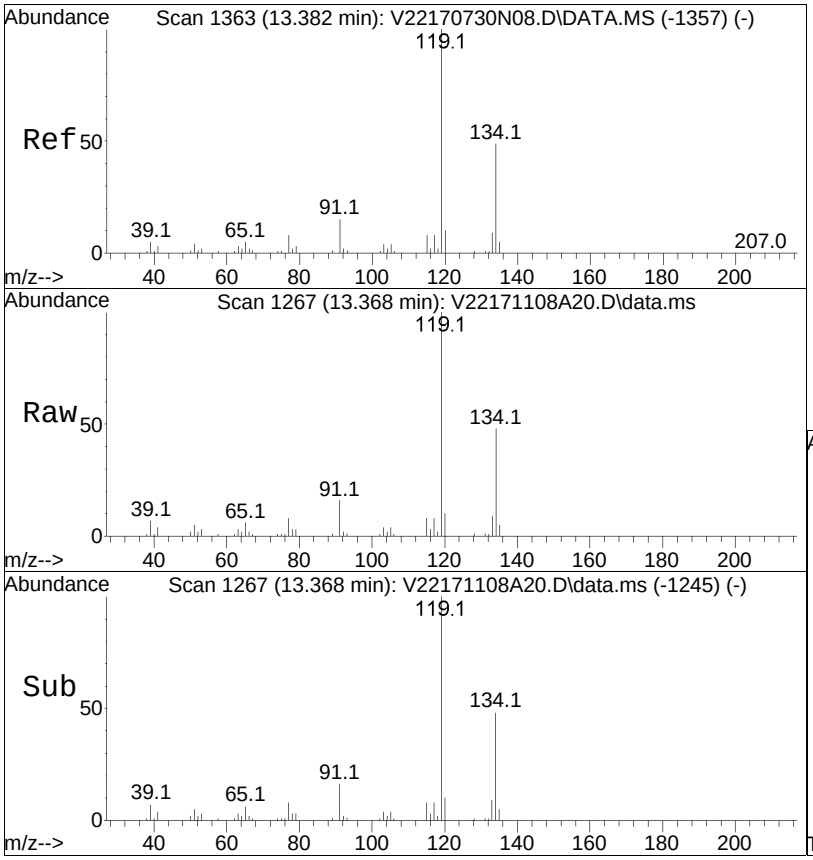


#108
1,2-Dichlorobenzene
Concen: 9.88 ug/L
RT: 12.781 min Scan# 1199
Delta R.T. -0.011 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:146 Resp: 122836

Ion	Ratio	Lower	Upper
146	100		
111	40.9	24.8	51.6
148	64.0	42.2	87.6

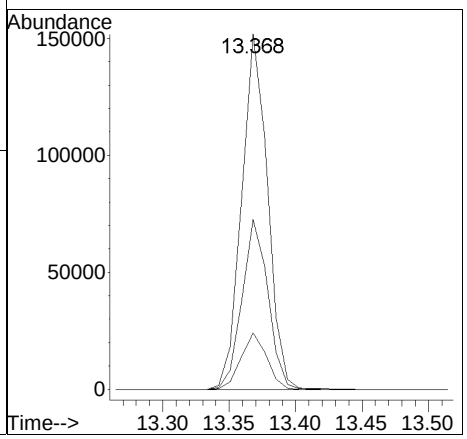


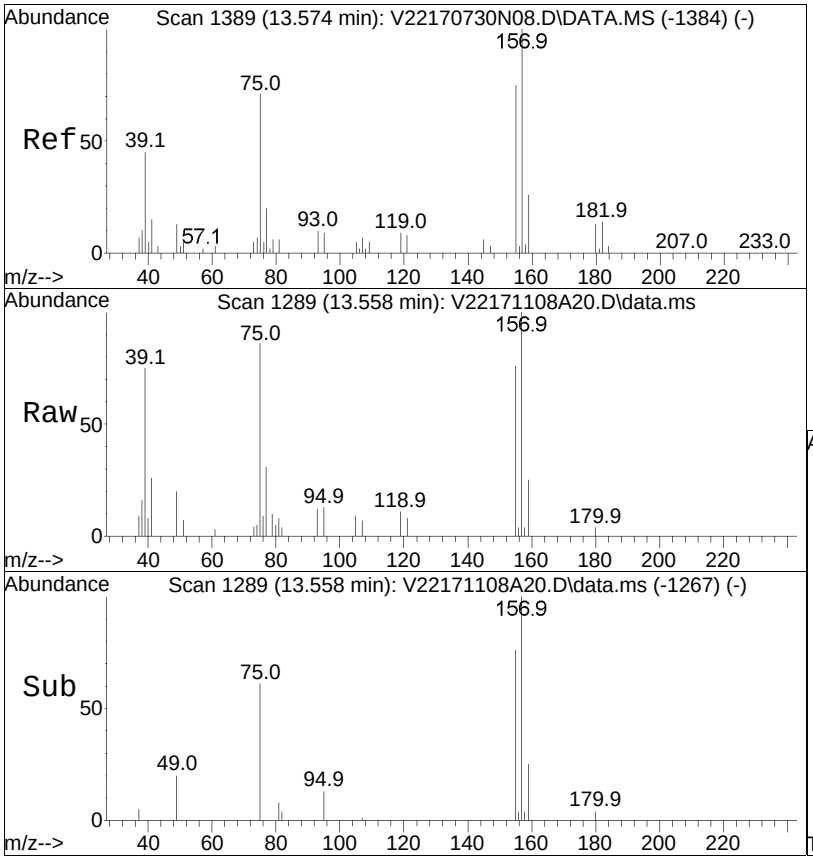


#109
1,2,4,5-Tetramethylbenzene
Concen: 9.23 ug/L
RT: 13.368 min Scan# 1267
Delta R.T. -0.014 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:119 Resp: 206216

Ion	Ratio	Lower	Upper
119	100		
134	47.9	31.9	66.1
91	15.8	9.8	20.3

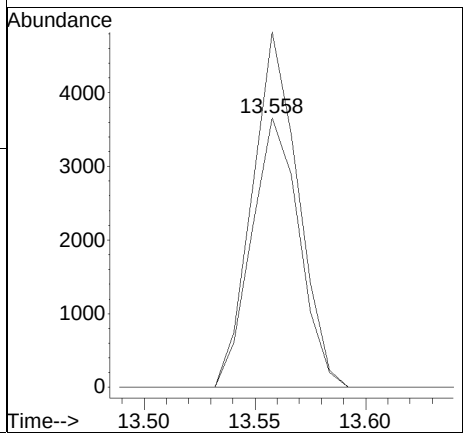


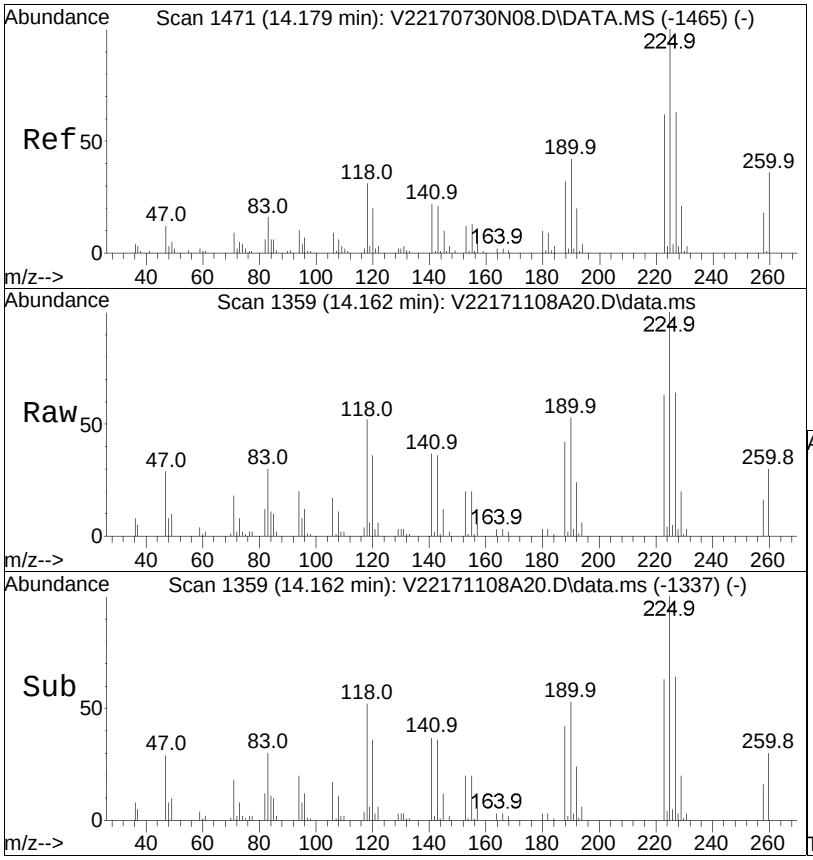


#110
1,2-Dibromo-3-chloropropane
Concen: 7.57 ug/L
RT: 13.558 min Scan# 1289
Delta R.T. -0.009 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:155 Resp: 5482

Ion	Ratio	Lower	Upper
155	100		
157	126.6	102.3	153.5

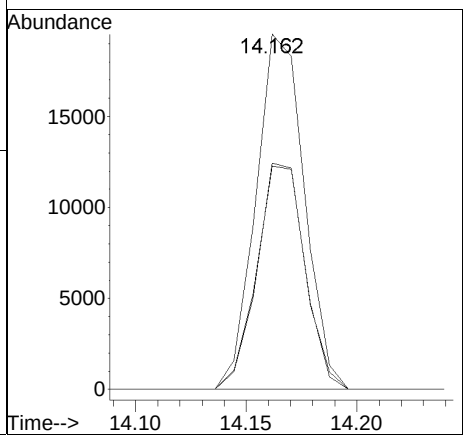


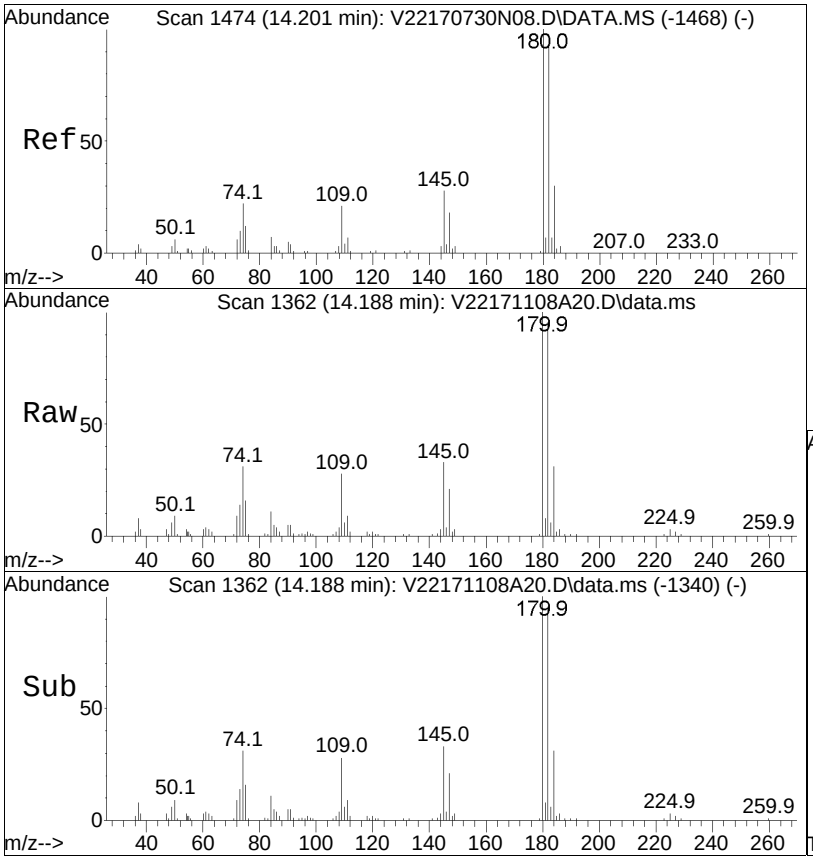


#112
Hexachlorobutadiene
Concen: 6.37 ug/L
RT: 14.162 min Scan# 1359
Delta R.T. -0.010 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:225 Resp: 29702

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.8	74.8
227	63.1	52.2	78.4

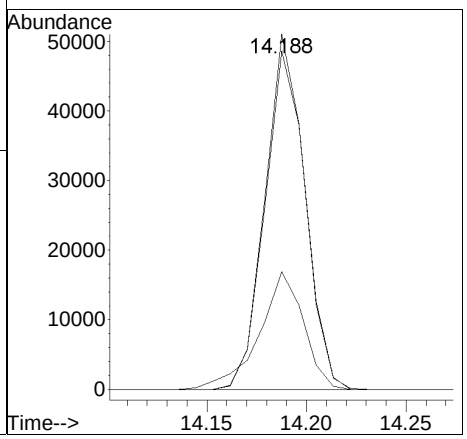


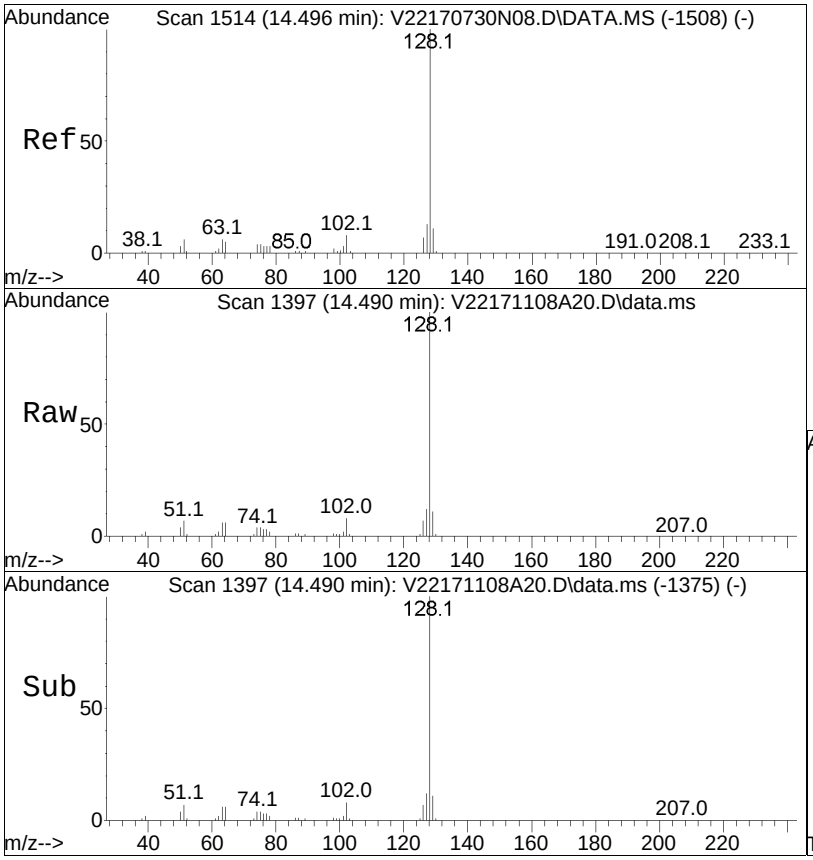


#113
1,2,4-Trichlorobenzene
Concen: 7.74 ug/L
RT: 14.188 min Scan# 1362
Delta R.T. -0.013 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:180 Resp: 70900

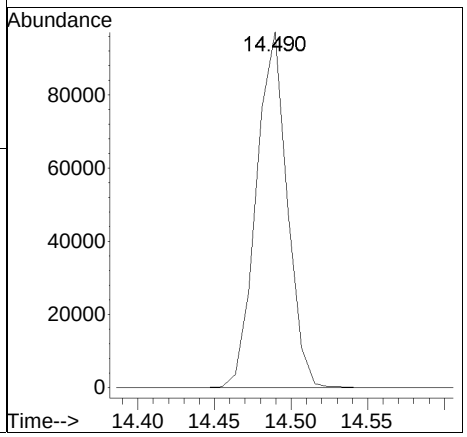
Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.6	114.8
145	36.8	25.5	38.3

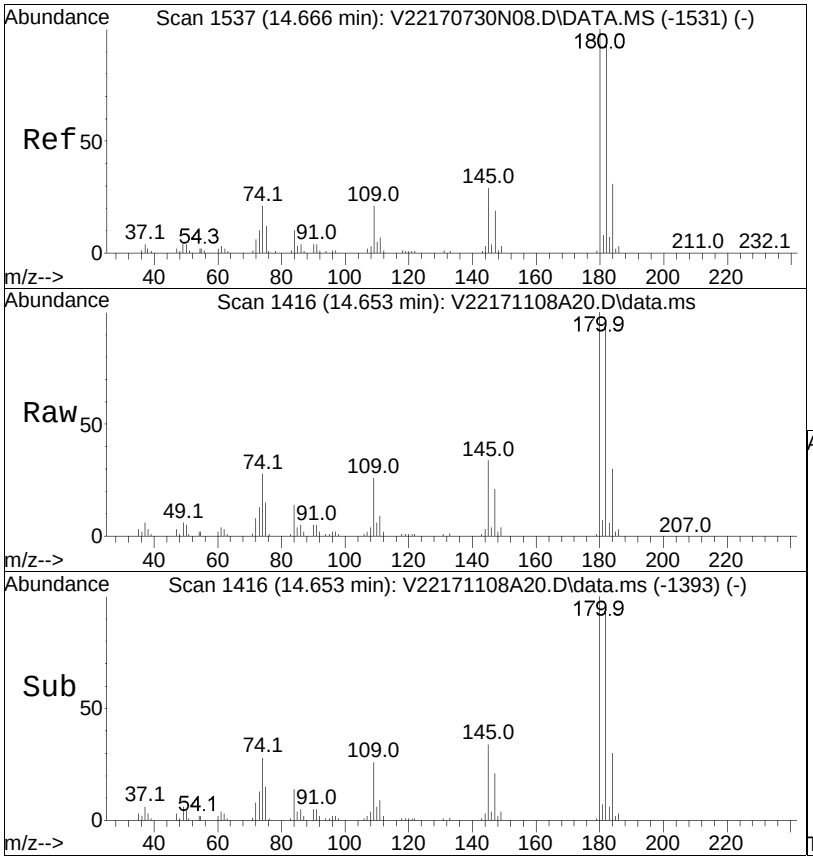




#114
Naphthalene
Concen: 8.41 ug/L
RT: 14.490 min Scan# 1397
Delta R.T. -0.006 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:128 Resp: 135994

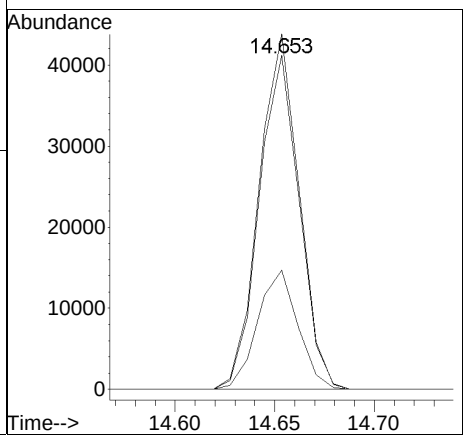




#115
1,2,3-Trichlorobenzene
Concen: 7.43 ug/L
RT: 14.653 min Scan# 1416
Delta R.T. -0.006 min
Lab File: V22171108A20.D
Acq: 08 Nov 2017 04:24 pm

Tgt Ion:180 Resp: 61293

Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.0	114.0
145	33.9	23.8	35.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22171108A20.D	Operator	: VOA122:MKS
Date Inj'd	: 11/8/2017 4:24 pm	Instrument	: VOA122
Sample	: WG1060967-6,31,10,10,,a1	Quant Date	: 11/8/2017 5:28 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A21.D
Acq On : 08 Nov 2017 04:51 pm
Operator : VOA122:MKS
Sample : WG1060967-7,31,10,10,,a2 (Sig #1); l1739725-01MSD,31,10,10,,a2 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 17:28:44 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.091	96	245763	10.000	ug/L	0.00
Standard Area 1 = 269066			Recovery =	91.34%		
62) Chlorobenzene-d5	9.646	117	191903	10.000	ug/L	-0.01
Standard Area 1 = 210100			Recovery =	91.34%		
83) 1,4-Dichlorobenzene-d4	12.341	152	98697	10.000	ug/L	0.00
Standard Area 1 = 107092			Recovery =	92.16%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.266	113	59877	9.427	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.27%		
46) 1,2-Dichloroethane-d4	5.802	65	63124	10.737	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.37%		
63) Toluene-d8	7.790	98	248493	10.772	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.72%		
87) 4-Bromofluorobenzene	11.133	95	91565	10.739	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.39%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.629	85	60271	12.244	ug/L	97
3) Chloromethane	1.828	50	57369	10.230	ug/L	99
4) Vinyl chloride	1.903	62	86670	12.349	ug/L	99
5) Bromomethane	2.216	94	19088	4.154	ug/L	97
6) Chloroethane	2.348	64	57575	13.638	ug/L	98
7) Trichlorofluoromethane	2.490	101	105447	10.908	ug/L	100
8) Ethyl ether	2.794	74	26162	8.719	ug/L #	1
10) 1,1-Dichloroethene	2.992	96	57707	9.670	ug/L	86
11) Carbon disulfide	3.011	76	152312	9.937	ug/L	100
15) Methylene chloride	3.551	84	60187	9.465	ug/L	88
17) Acetone	3.599	43	7804	10.160	ug/L	99
18) trans-1,2-Dichloroethene	3.703	96	65860	9.554	ug/L	93
21) Methyl tert-butyl ether	3.807	73	123882	8.403	ug/L	94
25) 1,1-Dichloroethane	4.300	63	117179	10.749	ug/L	98
27) Acrylonitrile	4.347	53	10622	9.742	ug/L	93
29) Vinyl acetate	4.546	43	93750	9.341	ug/L #	94
30) cis-1,2-Dichloroethene	4.820	96	70712	9.561	ug/L	92
31) 2,2-Dichloropropane	4.934	77	88682	9.404	ug/L	92
32) Bromochloromethane	5.010	128	29118	9.353	ug/L #	88

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A21.D
Acq On : 08 Nov 2017 04:51 pm
Operator : VOA122:MKS
Sample : WG1060967-7,31,10,10,,a2 (Sig #1); l1739725-01MSD,31,10,10,,a2 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 17:28:44 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Chloroform	5.086	83	113275	9.998	ug/L		98
36) Carbon tetrachloride	5.228	117	96452	10.786	ug/L		98
39) 1,1,1-Trichloroethane	5.294	97	109806	10.197	ug/L		97
41) 2-Butanone	5.398	43	11230	10.003	ug/L		99
42) 1,1-Dichloropropene	5.417	75	90251	10.149	ug/L		99
44) Benzene	5.668	78	280857	10.566	ug/L		94
47) 1,2-Dichloroethane	5.875	62	71998	10.436	ug/L		99
51) Trichloroethene	6.256	95	77271	11.250	ug/L		96
53) Dibromomethane	6.700	93	30719	12.007	ug/L	#	82
54) 1,2-Dichloropropane	6.813	63	59649	10.340	ug/L		99
57) Bromodichloromethane	6.875	83	81021	9.407	ug/L		99
60) 1,4-Dioxane	7.102	88	3619	349.121	ug/L	#	90
61) cis-1,3-Dichloropropene	7.582	75	86361	8.714	ug/L		93
64) Toluene	7.856	92	165933	10.642	ug/L		100
65) 4-Methyl-2-pentanone	8.302	58	11363	9.966	ug/L		95
66) Tetrachloroethene	8.292	166	835917	103.618	ug/L		94
68) trans-1,3-Dichloropropene	8.330	75	71242	9.242	ug/L		92
71) 1,1,2-Trichloroethane	8.519	83	35866	9.725	ug/L		97
72) Chlorodibromomethane	8.728	129	53136	9.133	ug/L		99
73) 1,3-Dichloropropane	8.851	76	74750	9.990	ug/L		98
74) 1,2-Dibromoethane	9.012	107	41043	8.779	ug/L		99
76) 2-Hexanone	9.315	43	16249	9.807	ug/L		94
77) Chlorobenzene	9.665	112	181892	10.029	ug/L		97
78) Ethylbenzene	9.712	91	318826	10.403	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.750	131	61608	9.741	ug/L		98
80) p/m Xylene	9.902	106	252066	20.534	ug/L		97
81) o Xylene	10.442	106	267954	23.789	ug/L		88
82) Styrene	10.517	104	132429	7.287	ug/L		98
84) Bromoform	10.517	173	21523	5.686	ug/L		96
86) Isopropylbenzene	10.820	105	337555	10.948	ug/L		97
88) Bromobenzene	11.247	156	70102	9.396	ug/L		100
89) n-Propylbenzene	11.294	91	403356	11.492	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.370	83	46339	10.124	ug/L		99
92) 4-Ethyltoluene	11.417	105	318694	11.269	ug/L		99
93) 2-Chlorotoluene	11.455	91	260898	11.507	ug/L		98
94) 1,3,5-Trimethylbenzene	11.522	105	268844	11.131	ug/L		98
95) 1,2,3-Trichloropropane	11.522	75	37470	10.198	ug/L		97
96) trans-1,4-Dichloro-2-b...	11.569	53	8070	6.995	ug/L		84

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A21.D
Acq On : 08 Nov 2017 04:51 pm
Operator : VOA122:MKS
Sample : WG1060967-7,31,10,10,,a2 (Sig #1); l1739725-01MSD,31,10,10,,a2 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 17:28:44 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171108A\V22171108A02.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	4-Chlorotoluene	11.645	91	231930	11.230	ug/L	98
98)	tert-Butylbenzene	11.863	119	291914	13.185	ug/L	92
101)	1,2,4-Trimethylbenzene	11.936	105	316506	13.089	ug/L	100
102)	sec-Butylbenzene	12.048	105	351498	11.214	ug/L	98
103)	p-Isopropyltoluene	12.203	119	297106	10.922	ug/L	98
104)	1,3-Dichlorobenzene	12.264	146	149492	10.347	ug/L	98
105)	1,4-Dichlorobenzene	12.359	146	144009	10.090	ug/L	98
106)	p-Diethylbenzene	12.574	119	169576	10.747	ug/L	98
107)	n-Butylbenzene	12.635	91	272091	11.447	ug/L	97
108)	1,2-Dichlorobenzene	12.781	146	129434	9.971	ug/L	97
109)	1,2,4,5-Tetramethylben...	13.368	119	211520	9.073	ug/L	99
110)	1,2-Dibromo-3-chloropr...	13.558	155	5616	7.428	ug/L	99
112)	Hexachlorobutadiene	14.162	225	30922	6.356	ug/L	98
113)	1,2,4-Trichlorobenzene	14.188	180	75410	7.891	ug/L	97
114)	Naphthalene	14.490	128	137615	8.152	ug/L	100
115)	1,2,3-Trichlorobenzene	14.653	180	63654	7.399	ug/L	98

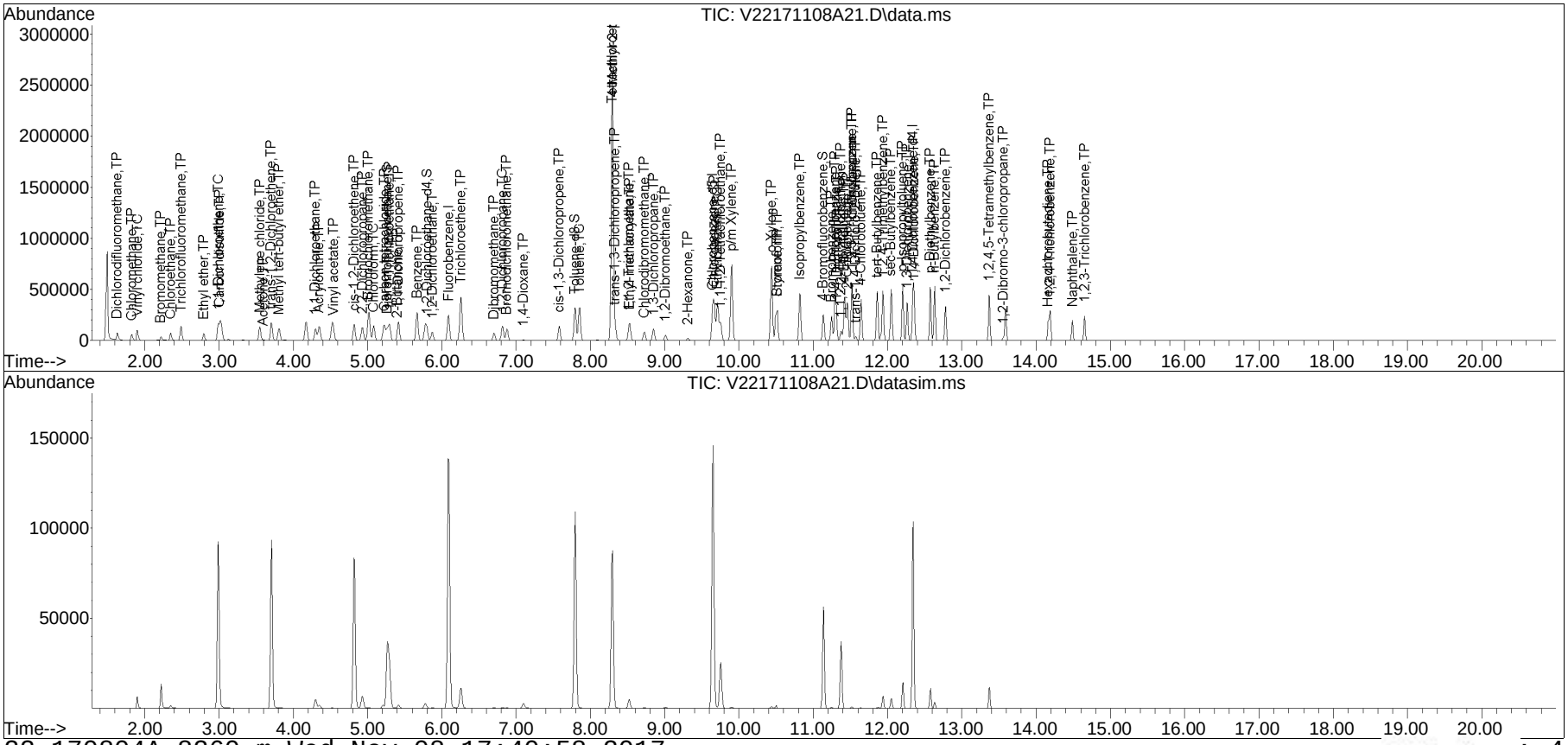
(#) = qualifier out of range (m) = manual integration (+) = signals summed

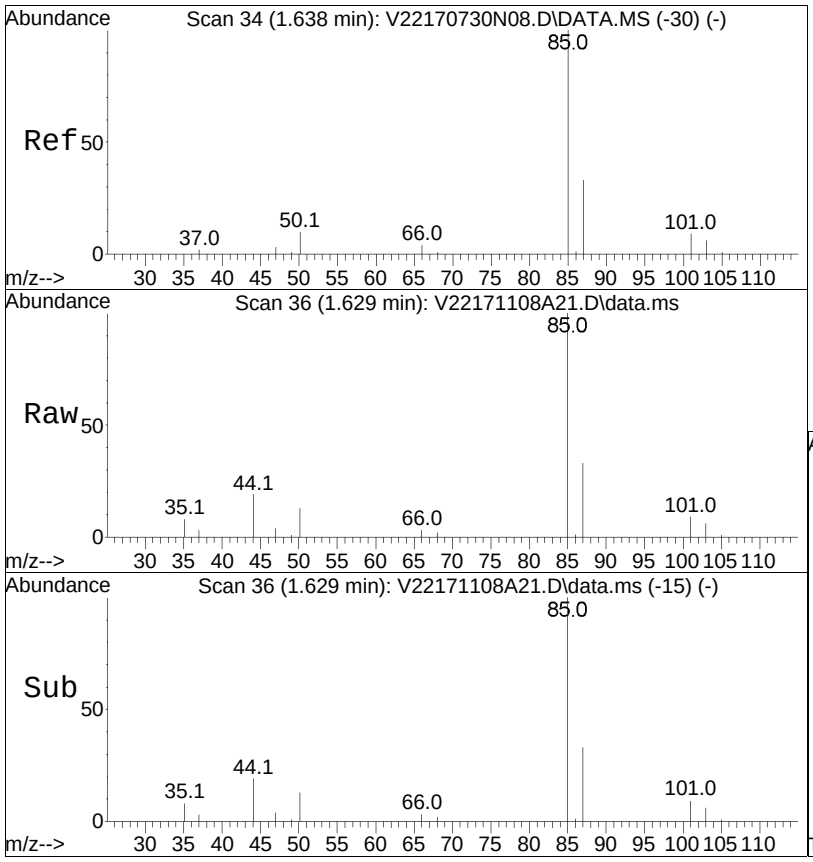
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171108A\
Data File : V22171108A21.D
Acq On : 08 Nov 2017 04:51 pm
Operator : VOA122:MKS
Sample : WG1060967-7,31,10,10,,a2 (Sig #1); l1739725-01MSD,31,10,10,,a2 (Sig #2)
Misc : WG1060967,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 17:28:44 2017
Quant Method : I:\VOLATILES\VOA122\2017\171108A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox71108A\V22171108A02.D•

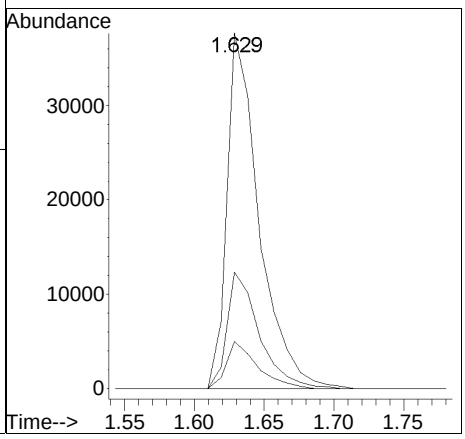


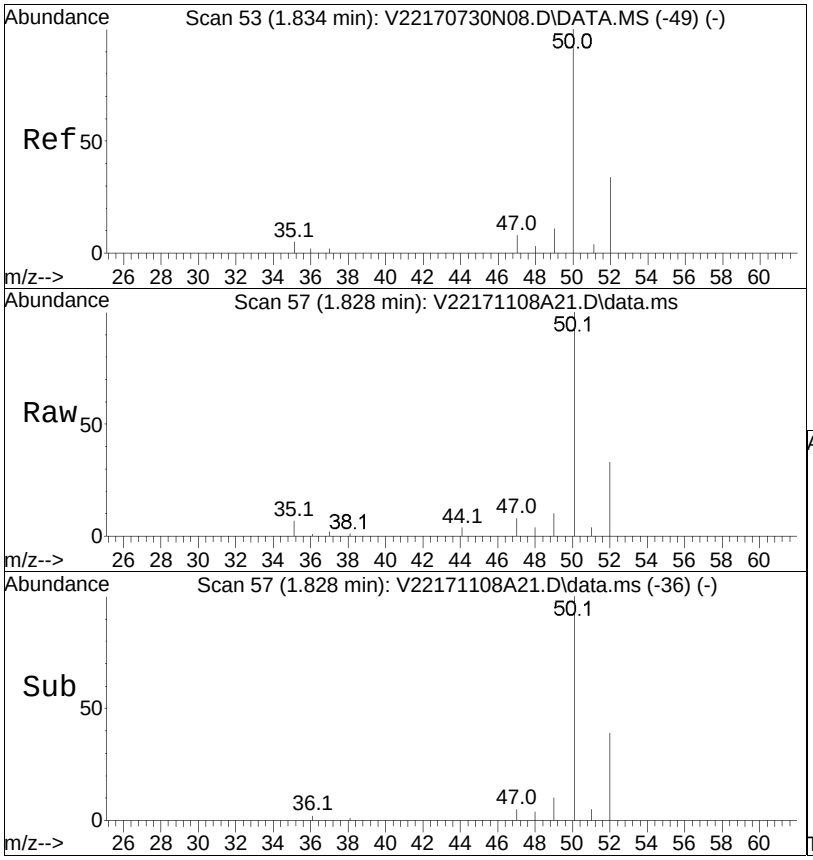


#2
Dichlorodifluoromethane
Concen: 12.24 ug/L
RT: 1.629 min Scan# 36
Delta R.T. 0.001 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 85 Resp: 60271

Ion	Ratio	Lower	Upper
85	100		
87	32.7	20.7	42.9
50	12.7	6.8	14.2

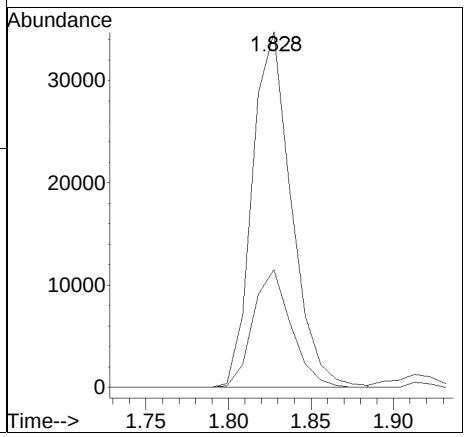


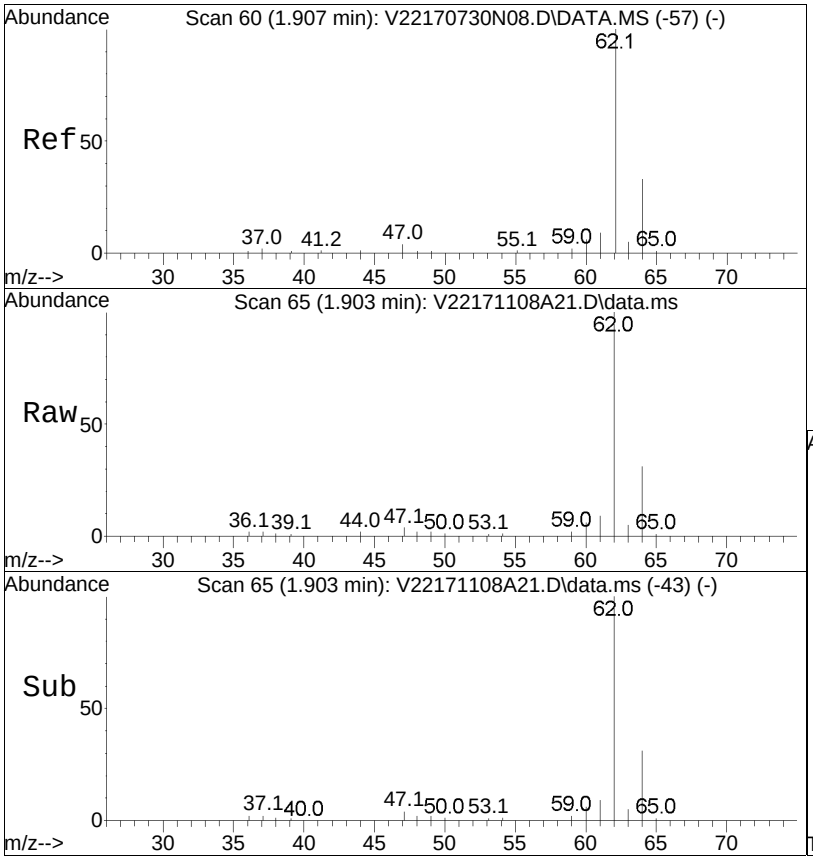


#3
Chloromethane
Concen: 10.23 ug/L
RT: 1.828 min Scan# 57
Delta R.T. 0.004 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 50 Resp: 57369

Ion	Ratio	Lower	Upper
50	100		
52	32.4	12.8	52.8

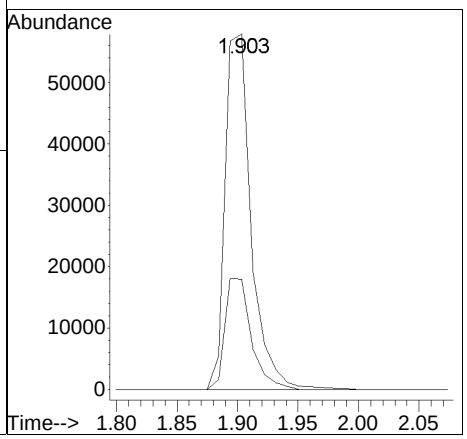


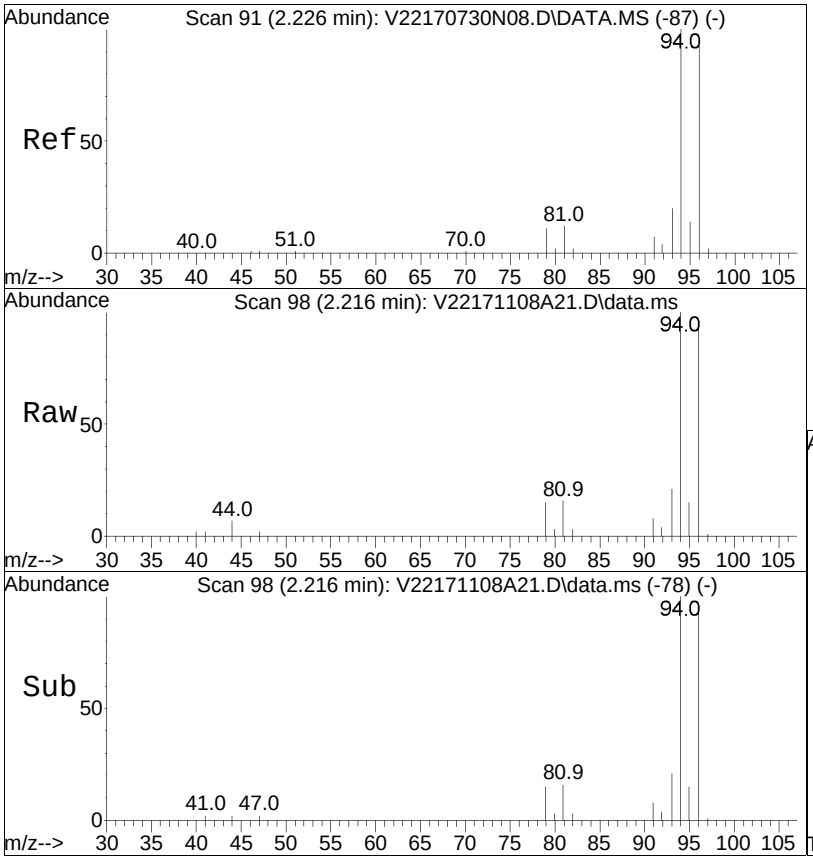


#4
Vinyl chloride
Concen: 12.35 ug/L
RT: 1.903 min Scan# 65
Delta R.T. 0.007 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 62 Resp: 86670

Ion	Ratio	Lower	Upper
62	100		
64	31.6	12.0	52.0

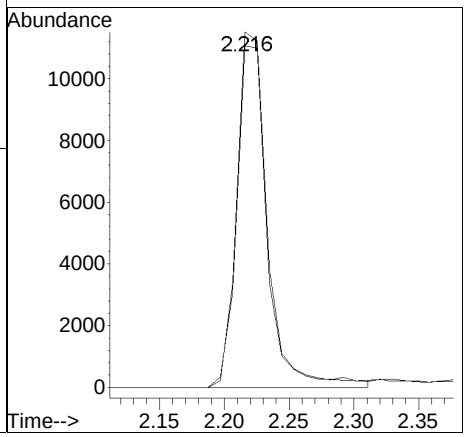


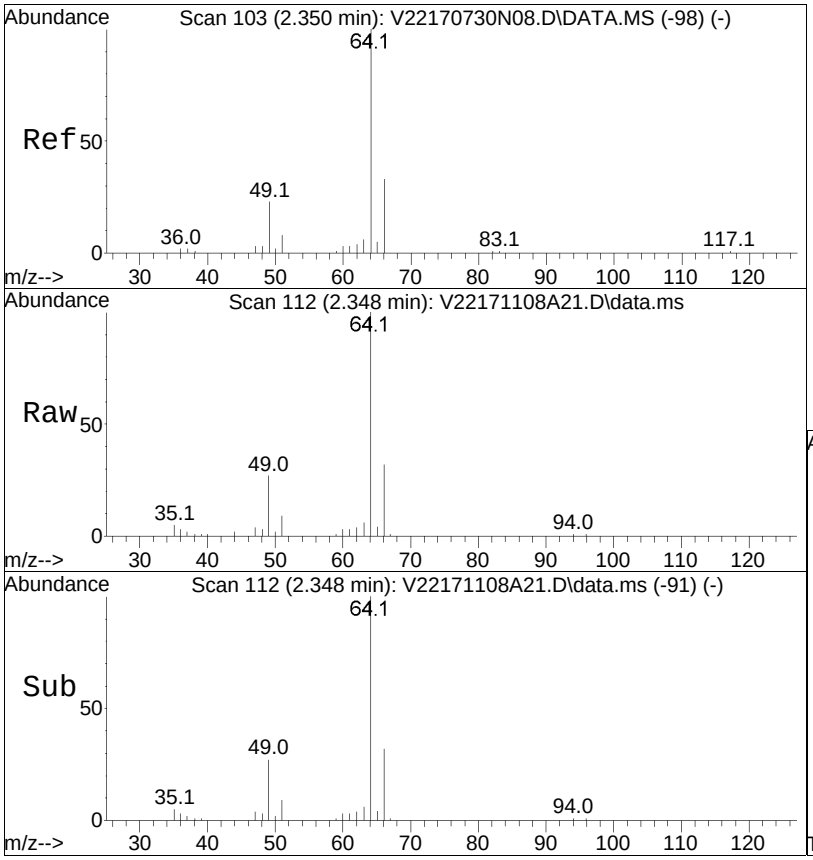


#5
Bromomethane
Concen: 4.15 ug/L
RT: 2.216 min Scan# 98
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 94 Resp: 19088

Ion	Ratio	Lower	Upper
94	100		
96	95.2	72.8	112.8

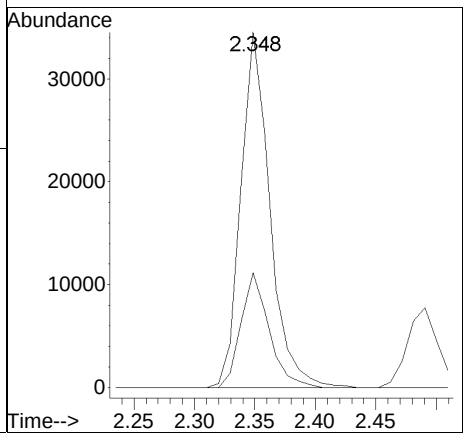


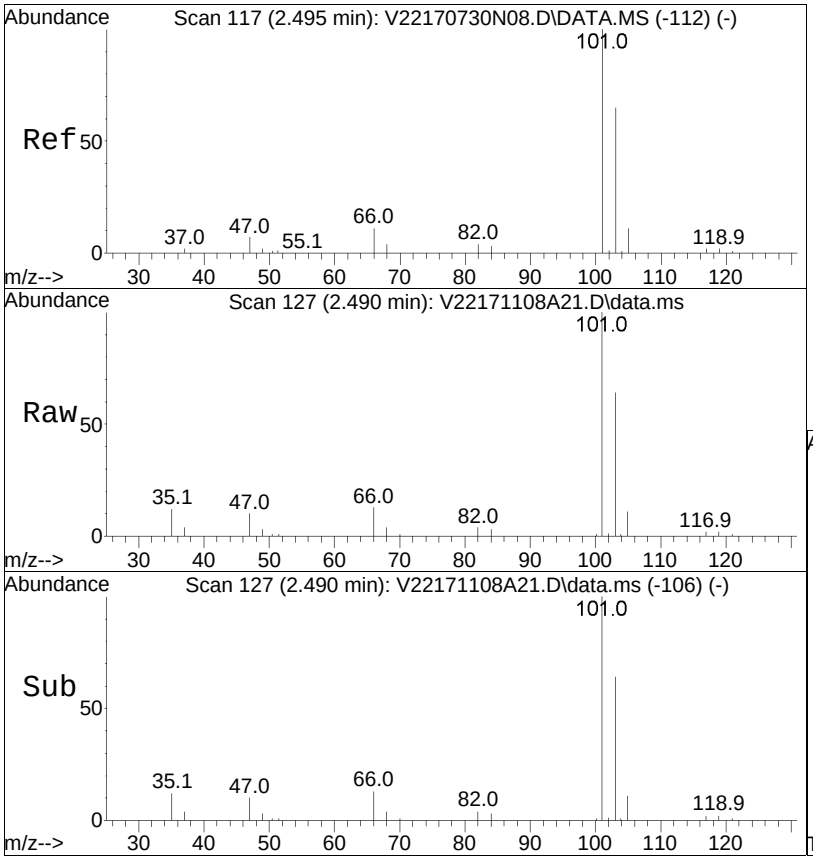


#6
Chloroethane
Concen: 13.64 ug/L
RT: 2.348 min Scan# 112
Delta R.T. -0.002 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 64 Resp: 57575

Ion	Ratio	Lower	Upper
64	100		
66	31.3	12.2	52.2

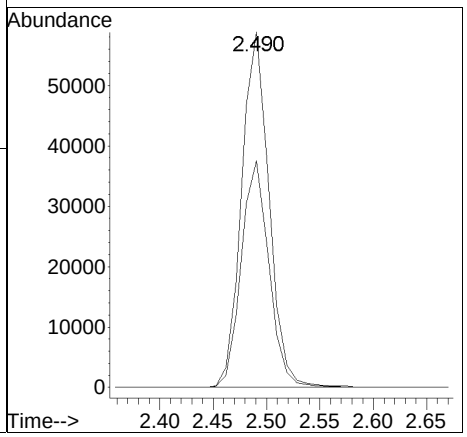


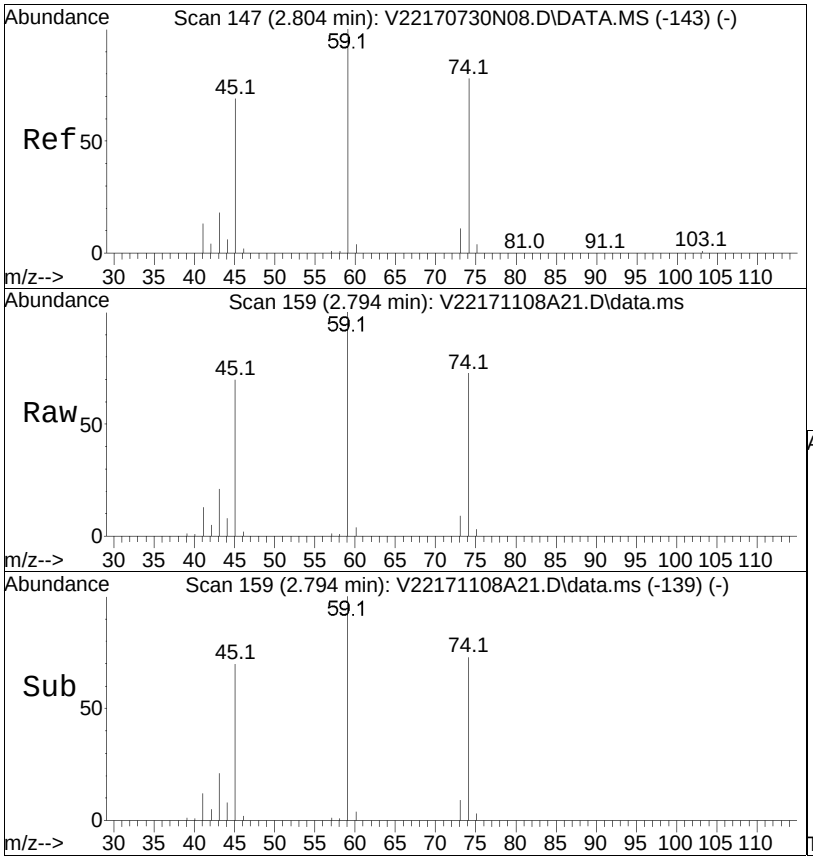


#7
Trichlorofluoromethane
Concen: 10.91 ug/L
RT: 2.490 min Scan# 127
Delta R.T. -0.005 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:101 Resp: 105447

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.6	77.4

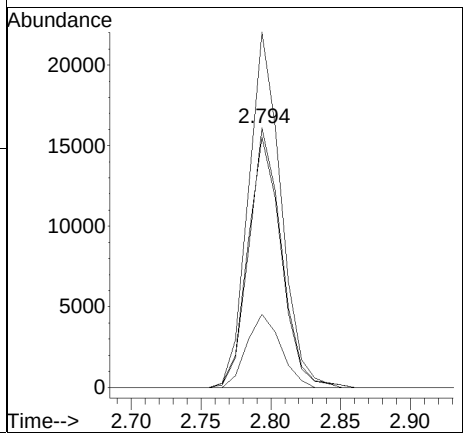


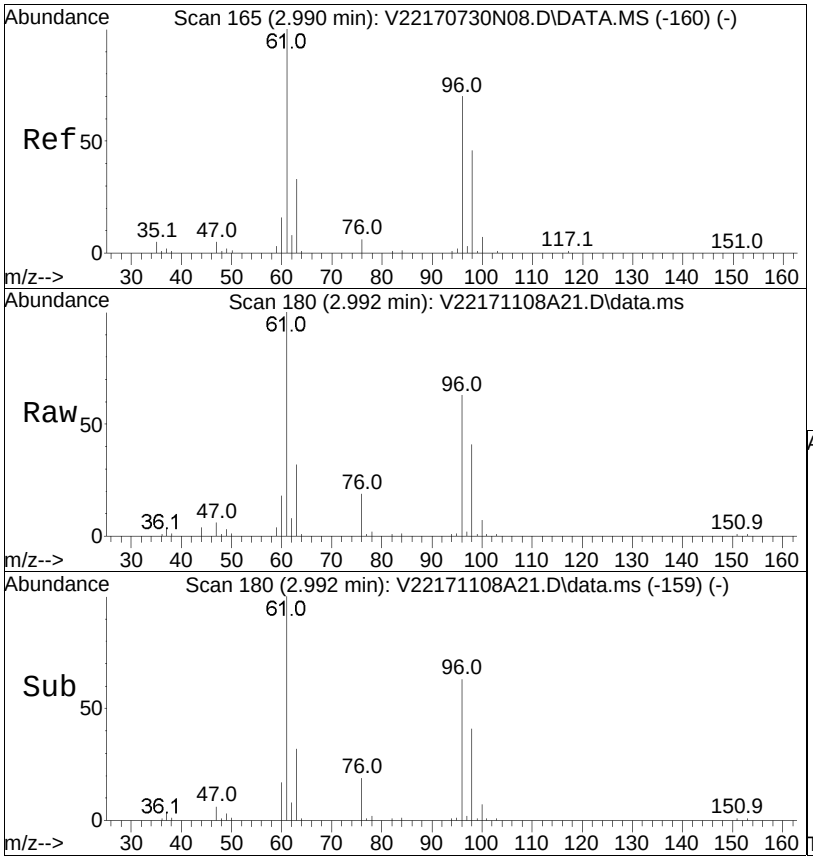


#8
Ethyl ether
Concen: 8.72 ug/L
RT: 2.794 min Scan# 159
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 74 Resp: 26162

Ion	Ratio	Lower	Upper
74	100		
59	137.2	2122.4	4408.0#
45	98.2	1435.1	2980.5#
43	29.4	407.9	847.3#

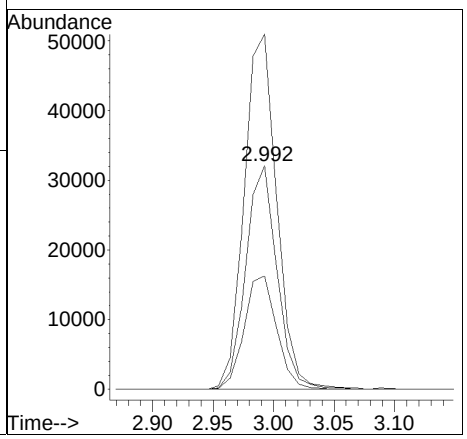


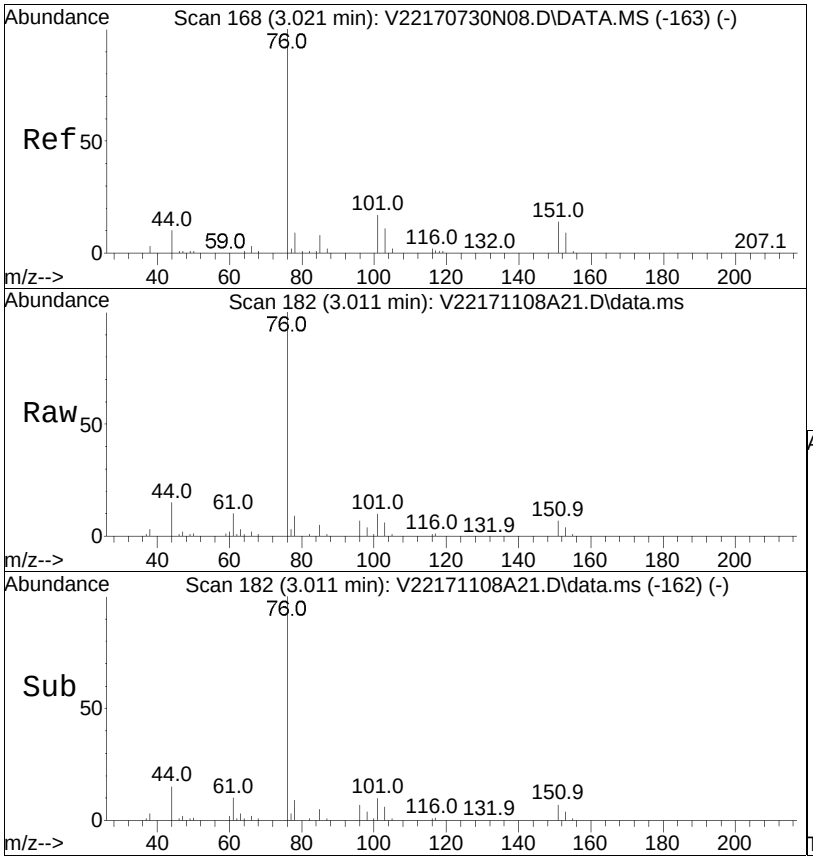


#10
1,1-Dichloroethene
Concen: 9.67 ug/L
RT: 2.992 min Scan# 180
Delta R.T. 0.002 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 96 Resp: 57707

Ion	Ratio	Lower	Upper
96	100		
61	165.6	117.0	175.4
63	52.8	37.8	56.6

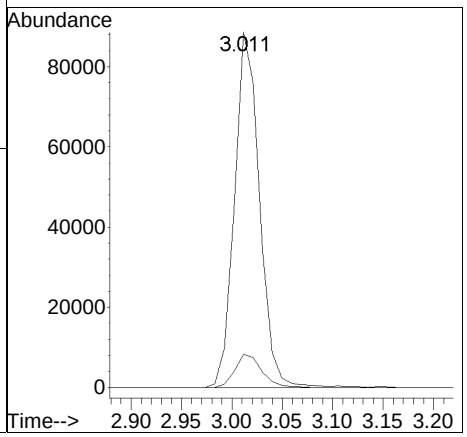


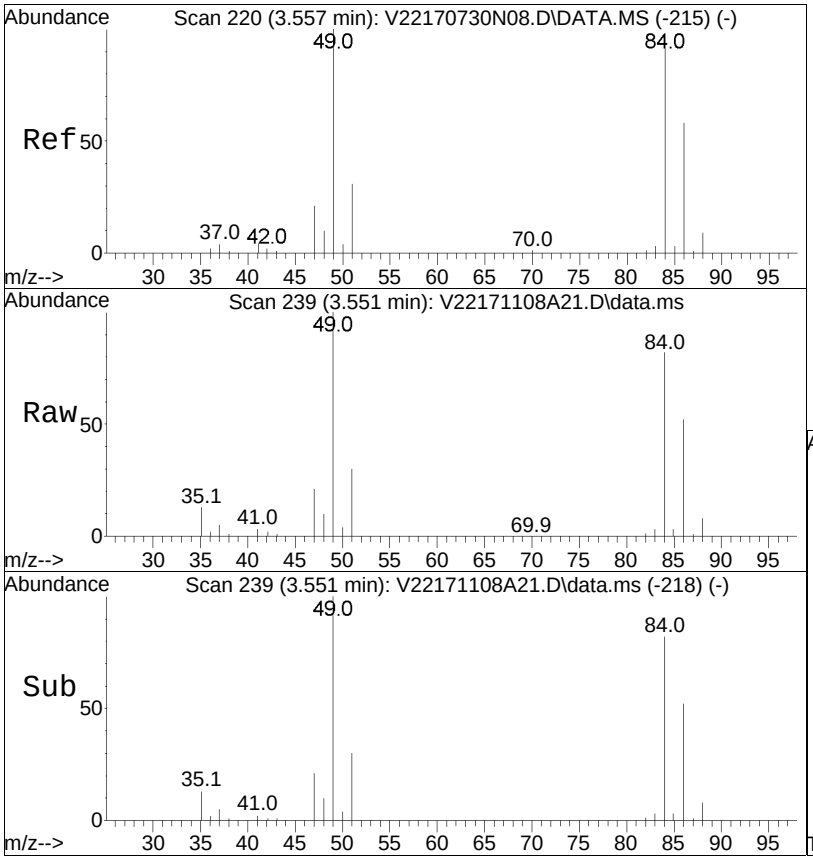


#11
Carbon disulfide
Concen: 9.94 ug/L
RT: 3.011 min Scan# 182
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 76 Resp: 152312

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

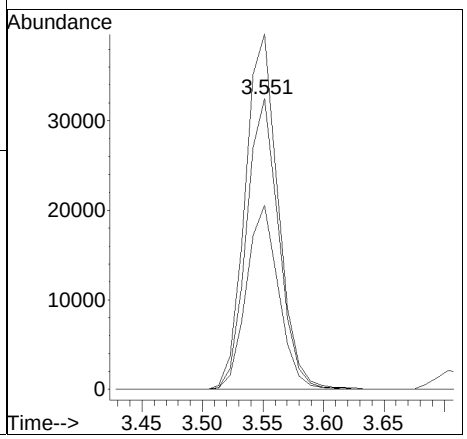


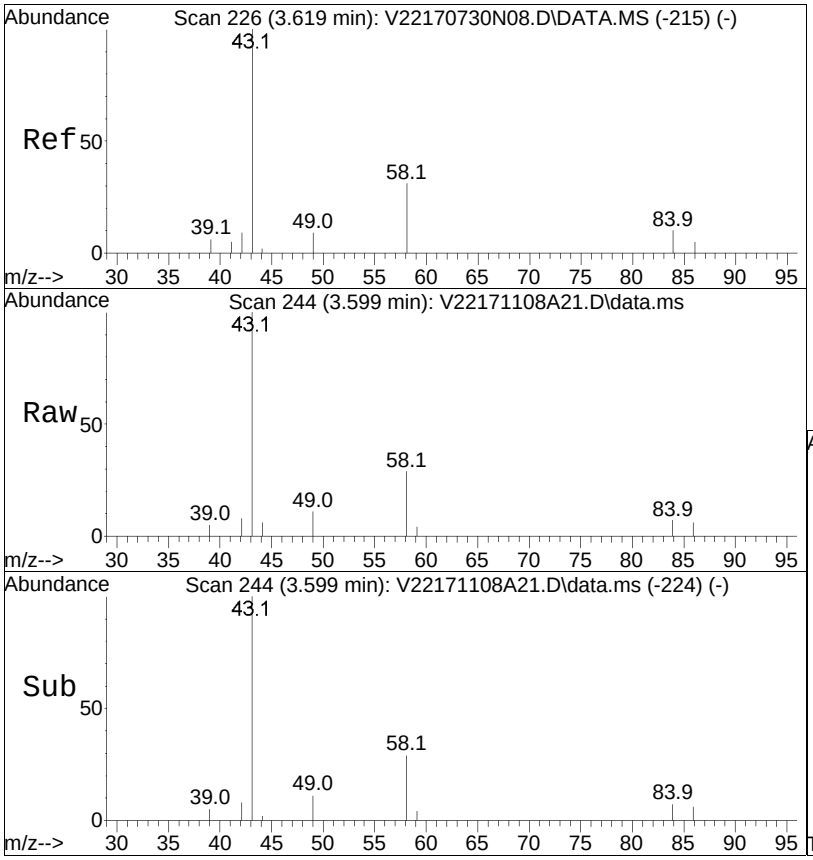


#15
Methylene chloride
Concen: 9.46 ug/L
RT: 3.551 min Scan# 239
Delta R.T. -0.006 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 84 Resp: 60187

Ion	Ratio	Lower	Upper
84	100		
86	63.6	41.5	86.3
49	125.6	68.8	143.0

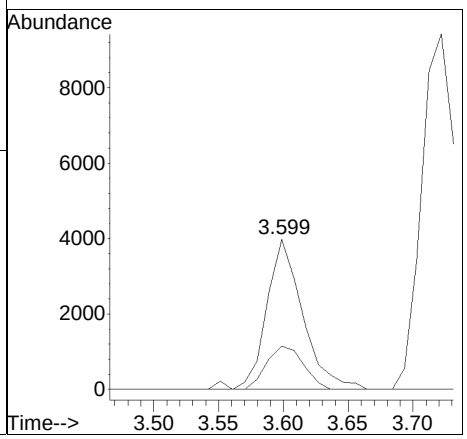


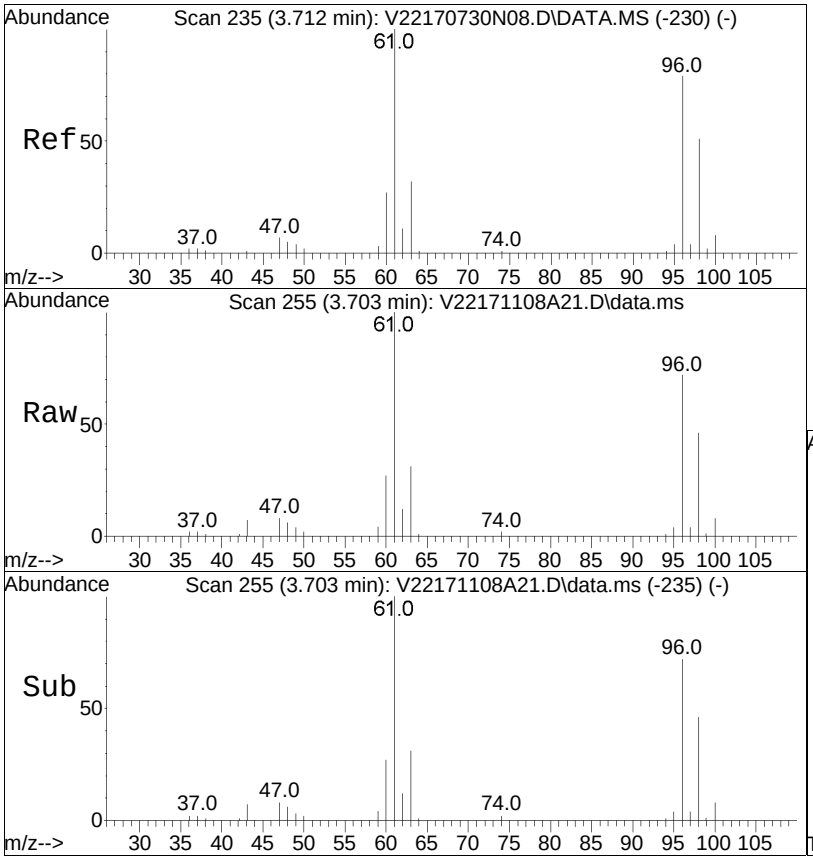


#17
Acetone
Concen: 10.16 ug/L
RT: 3.599 min Scan# 244
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 43 Resp: 7804

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.1	34.7

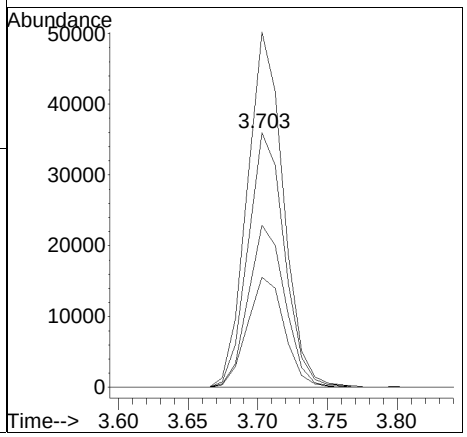


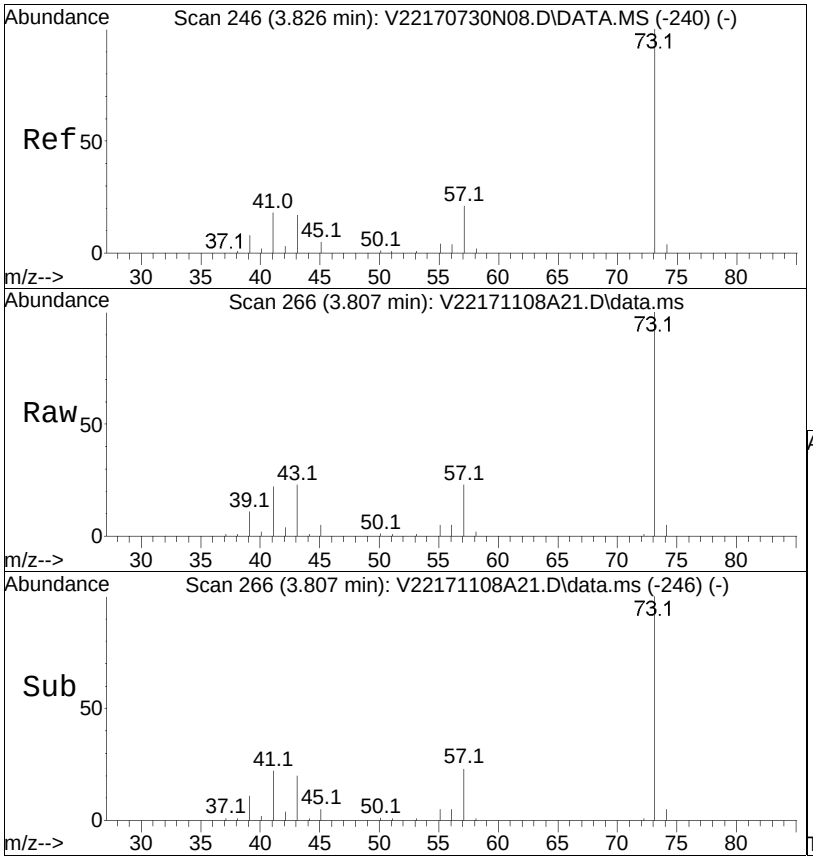


#18
trans-1,2-Dichloroethene
Concen: 9.55 ug/L
RT: 3.703 min Scan# 255
Delta R.T. -0.009 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 96 Resp: 65860

Ion	Ratio	Lower	Upper
96	100		
61	138.2	81.6	169.6
98	64.1	41.8	86.8
63	43.9	26.3	54.7

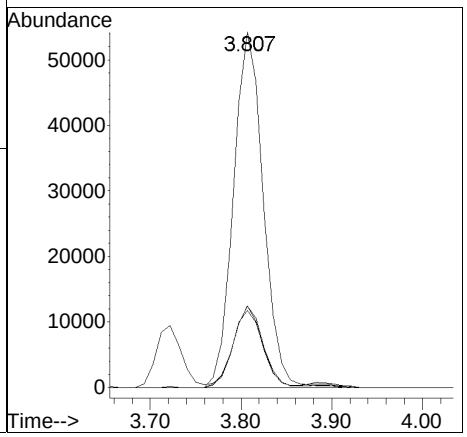


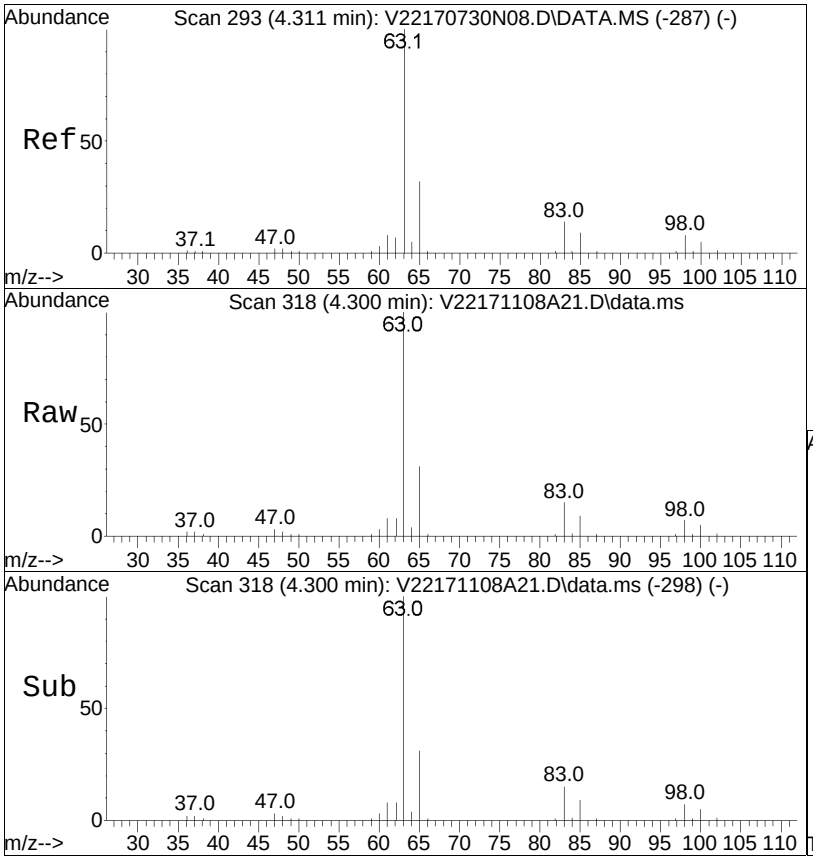


#21
Methyl tert-butyl ether
Concen: 8.40 ug/L
RT: 3.807 min Scan# 266
Delta R.T. -0.008 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 73 Resp: 123882

Ion	Ratio	Lower	Upper
73	100		
57	22.7	13.6	28.2
43	22.4	12.7	26.5
41	21.8	11.4	23.8

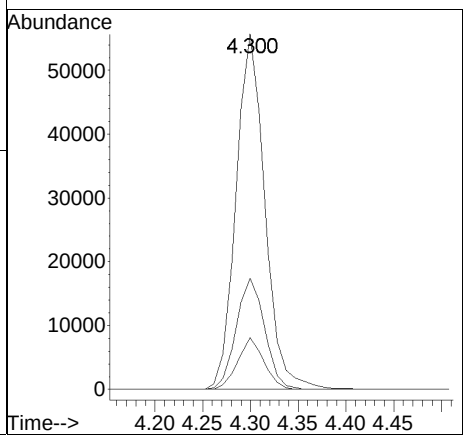


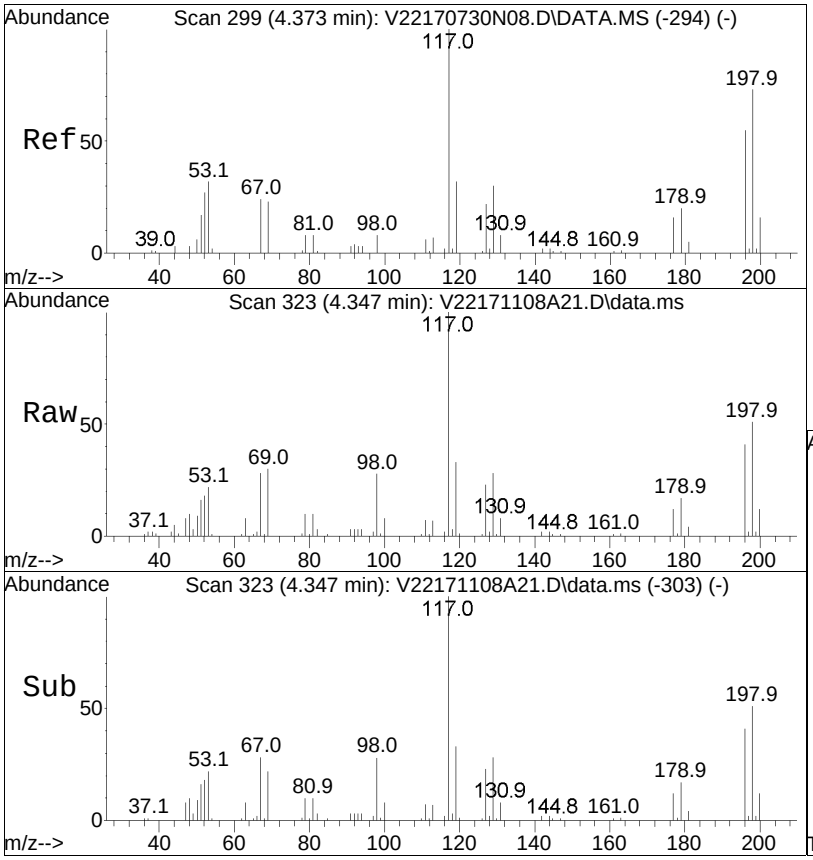


#25
1,1-Dichloroethane
Concen: 10.75 ug/L
RT: 4.300 min Scan# 318
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 63 Resp: 117179

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.9	51.9
83	13.2	0.0	34.2

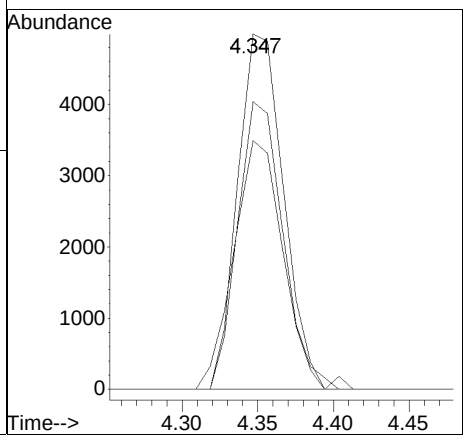


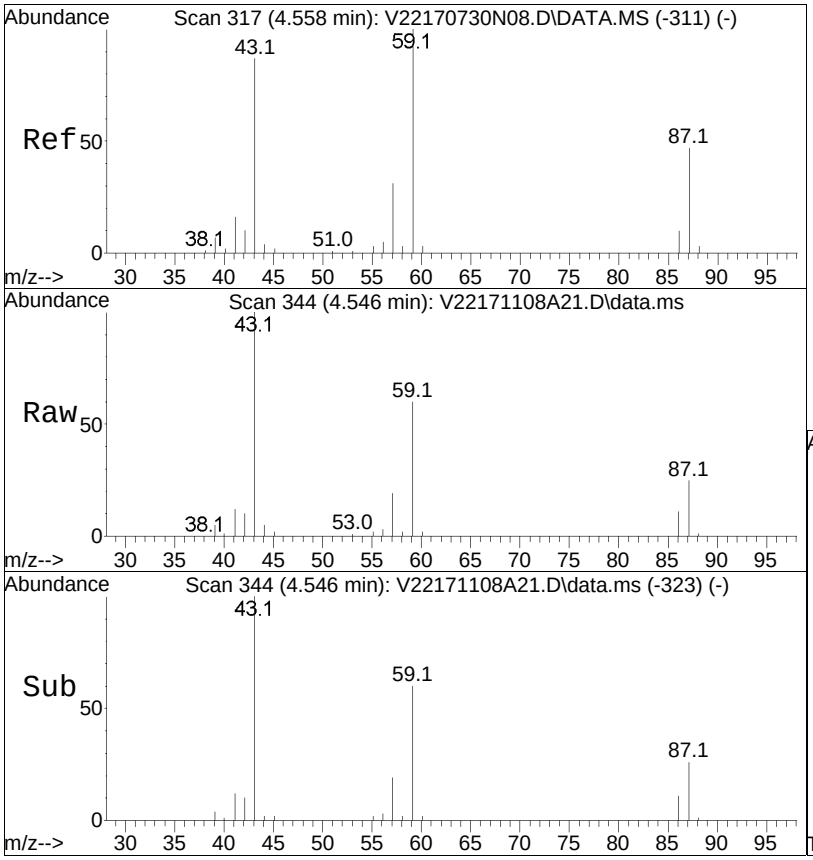


#27
Acrylonitrile
Concen: 9.74 ug/L
RT: 4.347 min Scan# 323
Delta R.T. -0.015 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 53 Resp: 10622

Ion	Ratio	Lower	Upper
53	100		
52	79.4	63.8	95.8
51	73.9	50.2	75.4

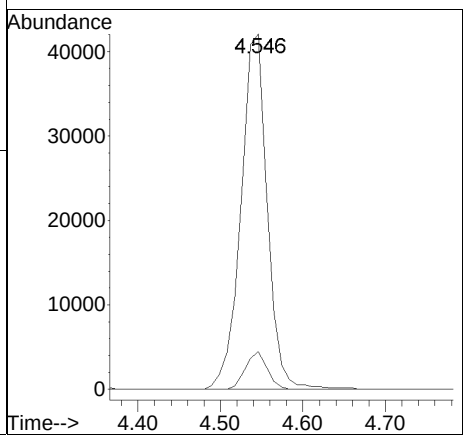


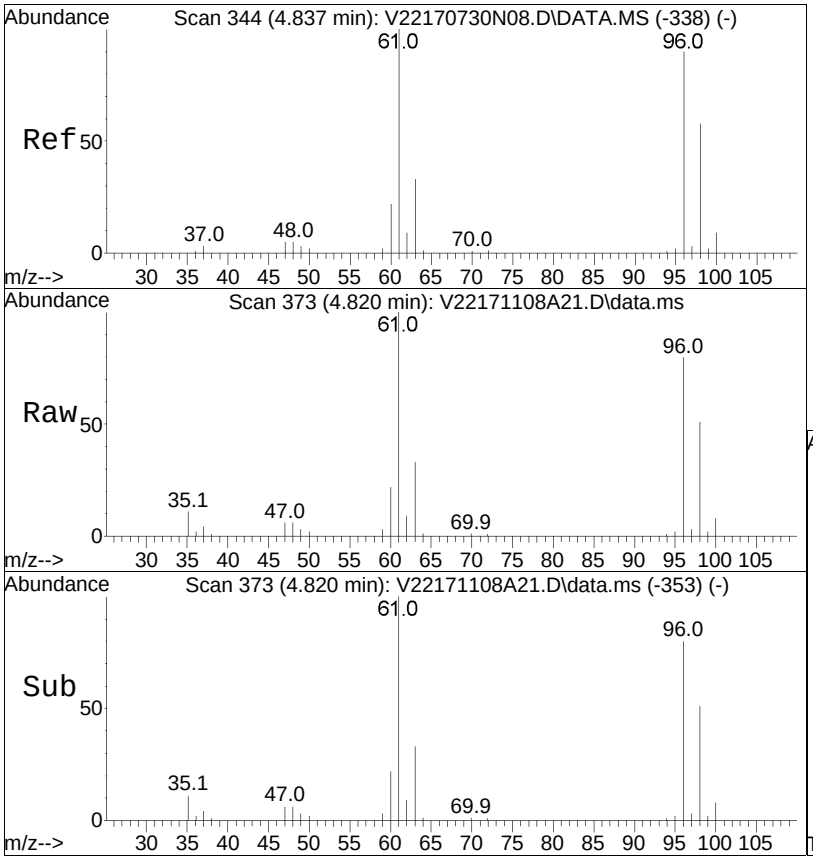


#29
Vinyl acetate
Concen: 9.34 ug/L
RT: 4.546 min Scan# 344
Delta R.T. -0.002 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 43 Resp: 93750

Ion	Ratio	Lower	Upper
43	100		
86	8.8	8.9	13.3#

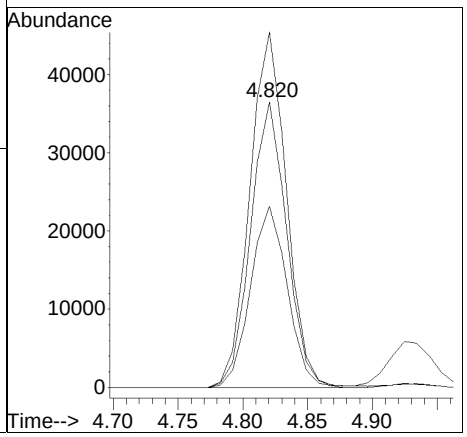


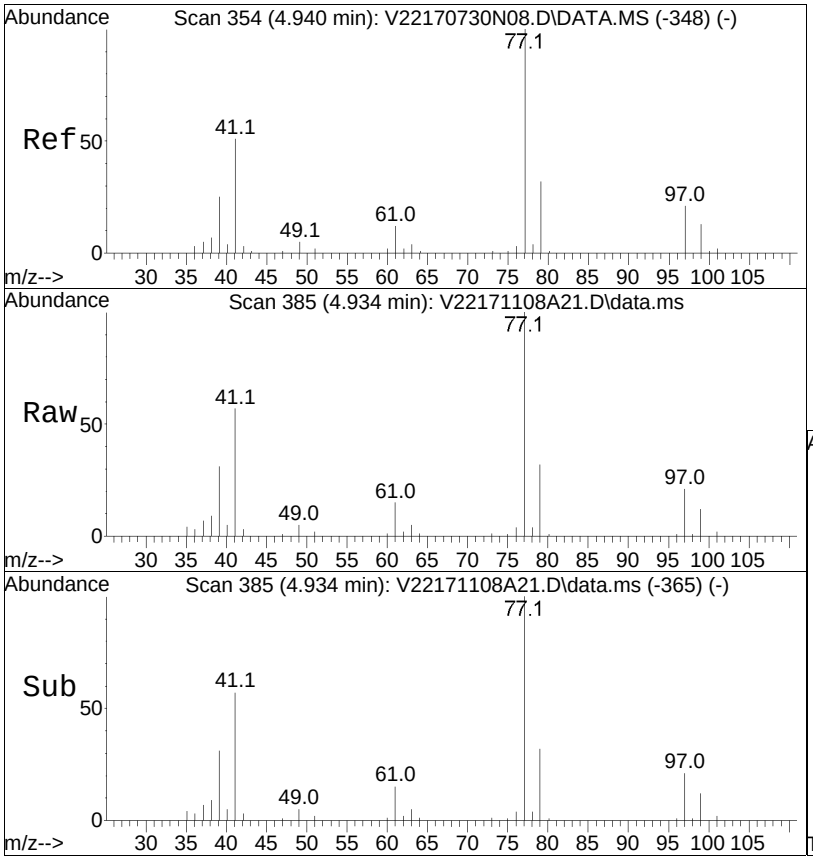


#30
cis-1,2-Dichloroethene
Concen: 9.56 ug/L
RT: 4.820 min Scan# 373
Delta R.T. -0.007 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 96 Resp: 70712

Ion	Ratio	Lower	Upper
96	100		
61	126.3	90.3	135.5
98	64.6	50.8	76.2

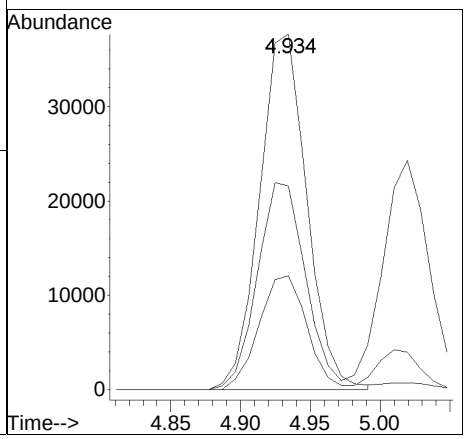


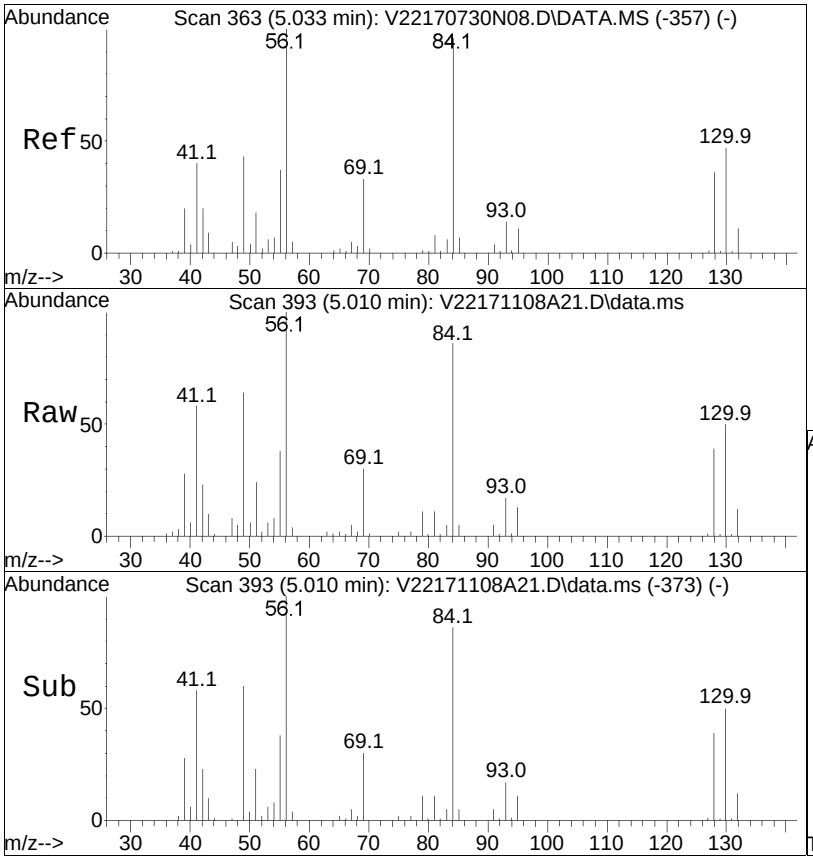


#31
2,2-Dichloropropane
Concen: 9.40 ug/L
RT: 4.934 min Scan# 385
Delta R.T. -0.006 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 77 Resp: 88682

Ion	Ratio	Lower	Upper
77	100		
41	59.2	32.3	67.1
79	32.3	21.1	43.7

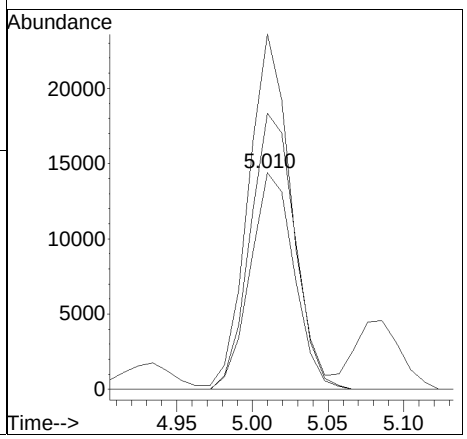


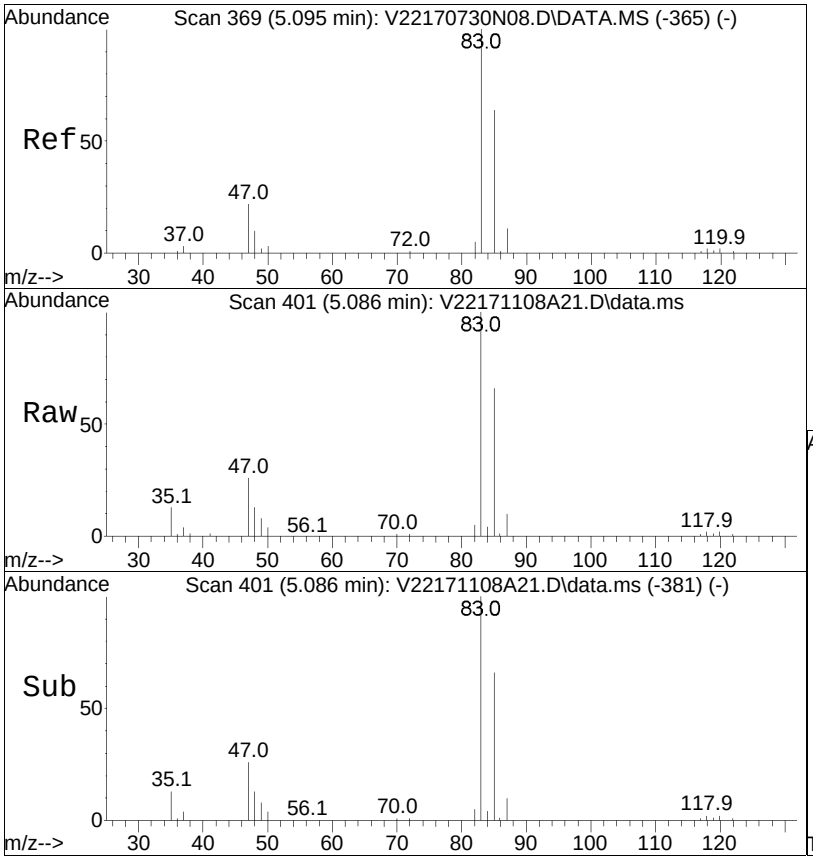


#32
Bromochloromethane
Concen: 9.35 ug/L
RT: 5.010 min Scan# 393
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:128 Resp: 29118

Ion	Ratio	Lower	Upper
128	100		
49	158.9	104.4	156.6#
130	129.5	103.9	155.9

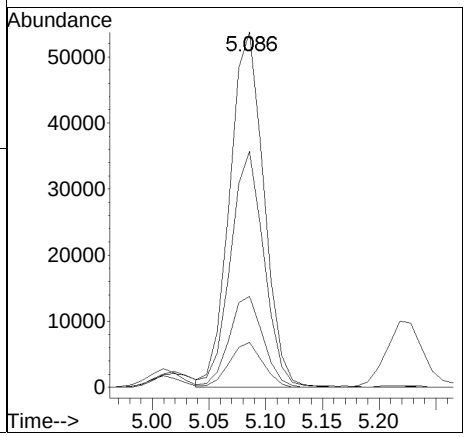


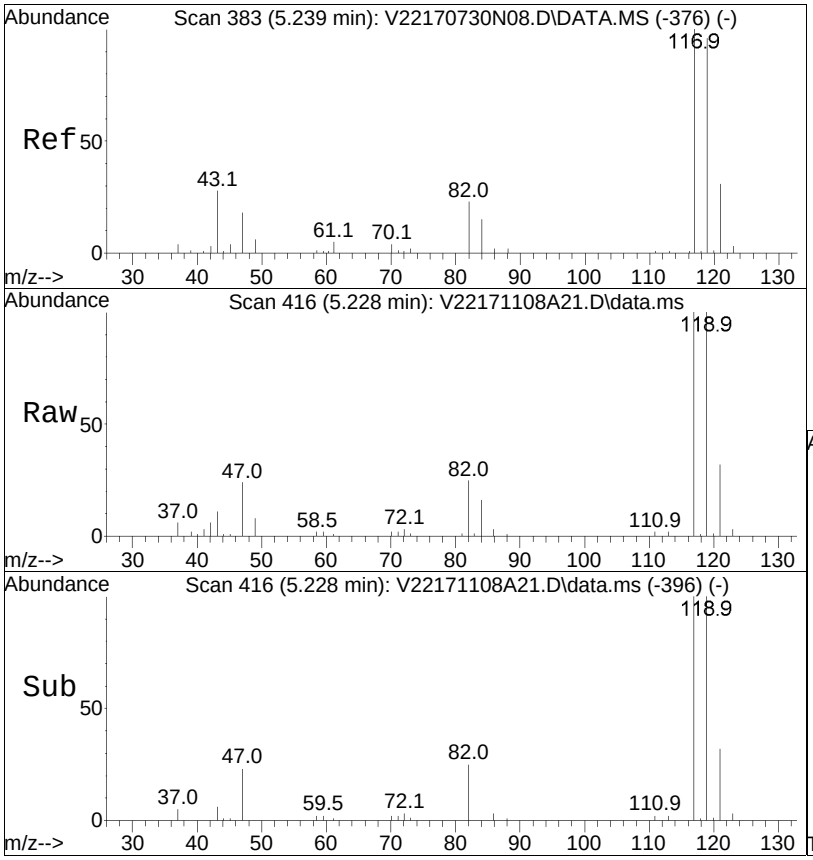


#34
Chloroform
Concen: 10.00 ug/L
RT: 5.086 min Scan# 401
Delta R.T. -0.009 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 83 Resp: 113275

Ion	Ratio	Lower	Upper
83	100		
85	65.1	42.4	88.2
47	25.4	14.0	29.0
48	12.4	6.9	14.3

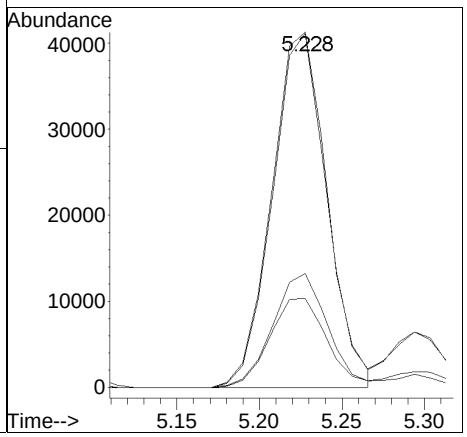


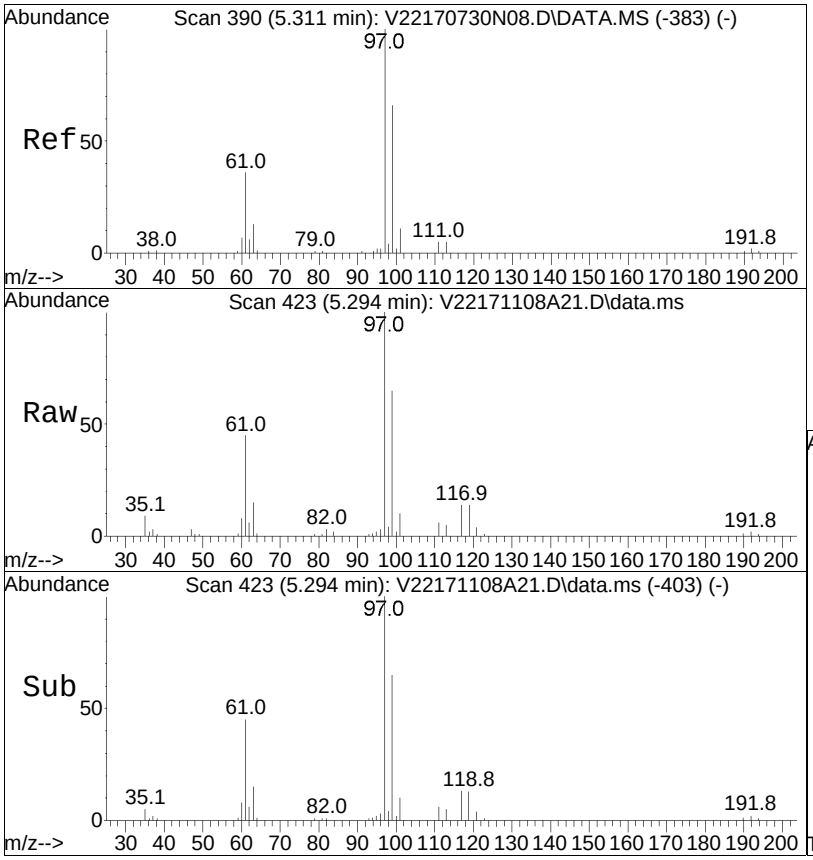


#36
Carbon tetrachloride
Concen: 10.79 ug/L
RT: 5.228 min Scan# 416
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:117 Resp: 96452

Ion	Ratio	Lower	Upper
117	100		
119	97.3	62.1	129.1
121	31.6	20.3	42.3
82	25.9	15.4	32.0

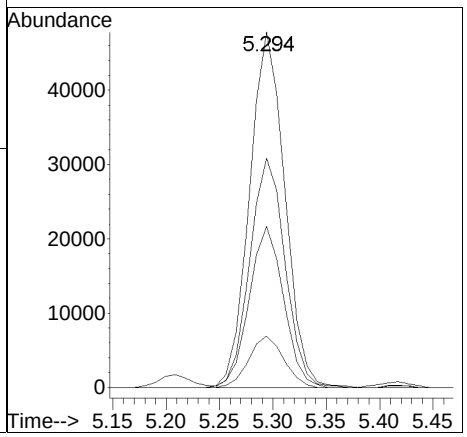


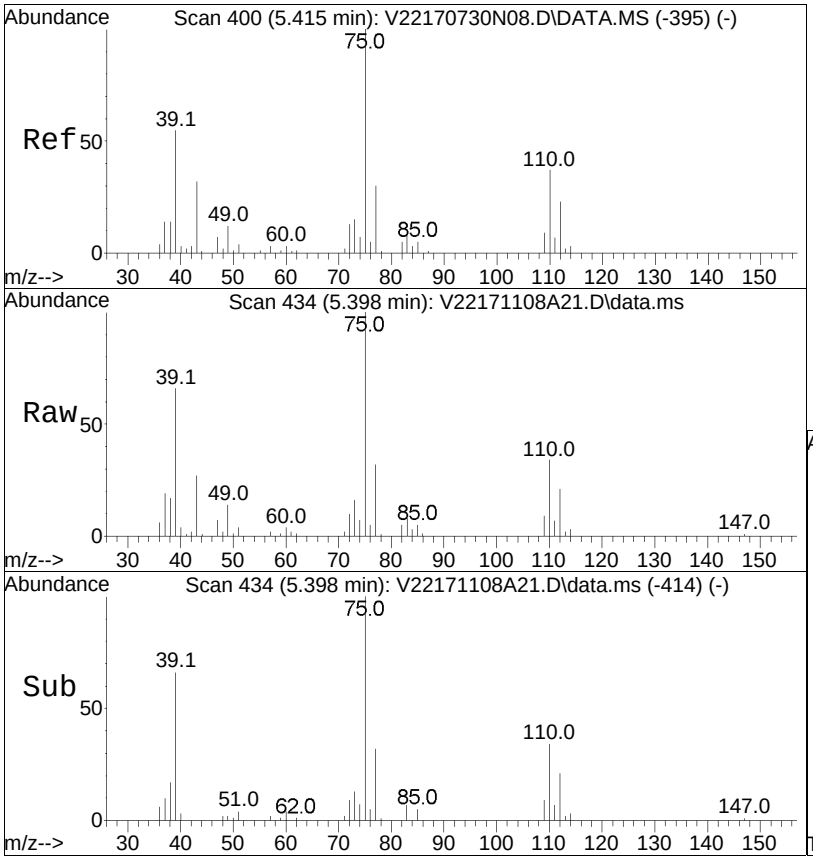


#39
1,1,1-Trichloroethane
Concen: 10.20 ug/L
RT: 5.294 min Scan# 423
Delta R.T. -0.007 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 97 Resp: 109806

Ion	Ratio	Lower	Upper
97	100		
99	64.6	42.4	88.0
61	44.2	26.0	54.0
63	14.3	8.3	17.3

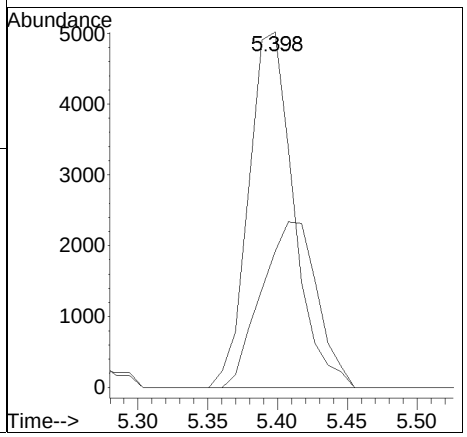


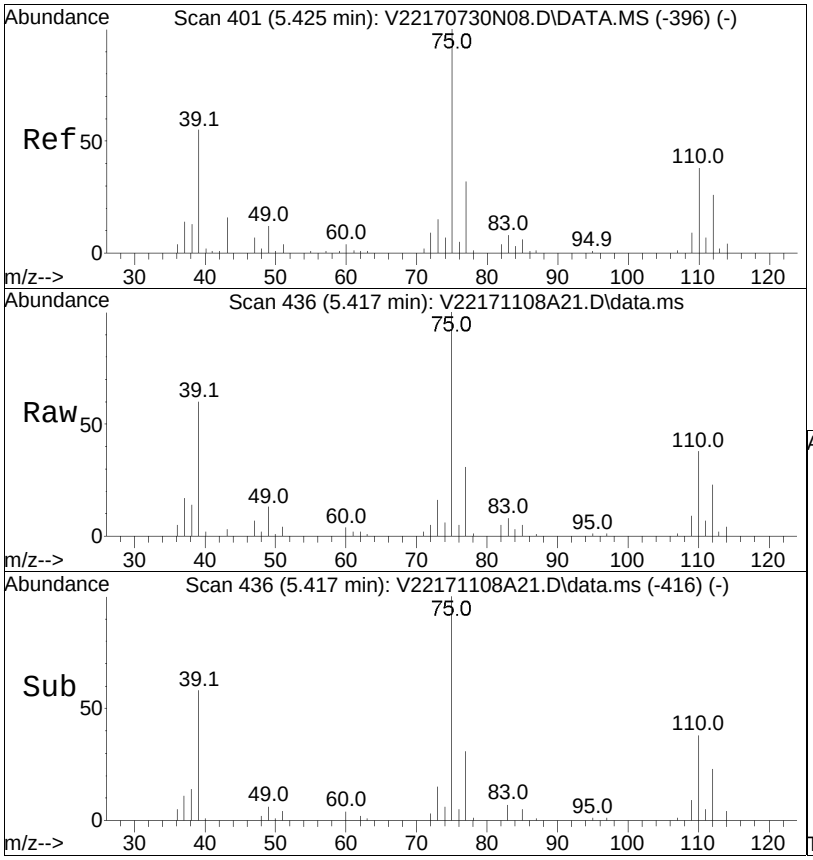


#41
2-Butanone
Concen: 10.00 ug/L
RT: 5.398 min Scan# 434
Delta R.T. -0.006 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 43 Resp: 11230

Ion	Ratio	Lower	Upper
43	100		
72	57.8	45.8	68.8

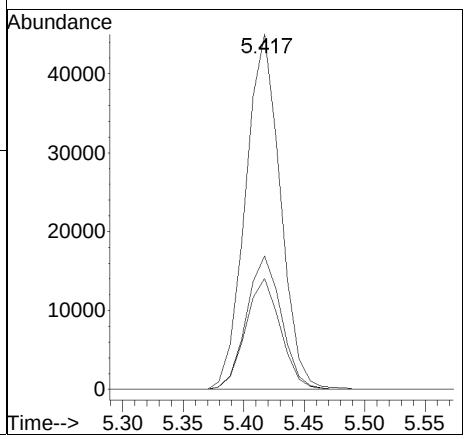


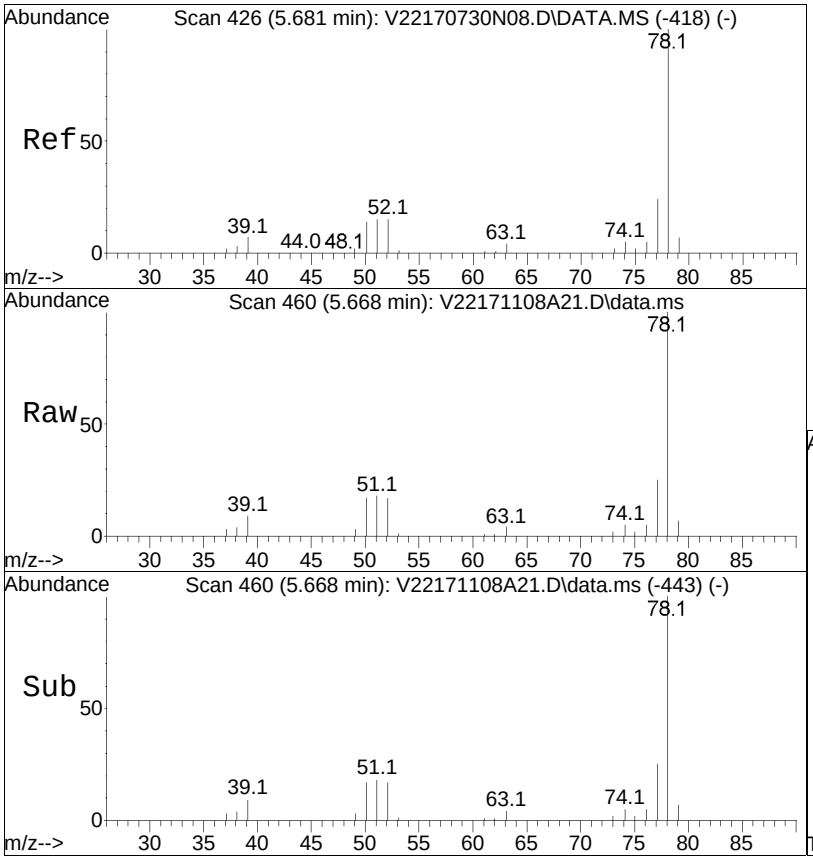


#42
1,1-Dichloropropene
Concen: 10.15 ug/L
RT: 5.417 min Scan# 436
Delta R.T. -0.008 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 75 Resp: 90251

Ion	Ratio	Lower	Upper
75	100		
110	37.6	25.4	52.8
77	31.4	20.3	42.1

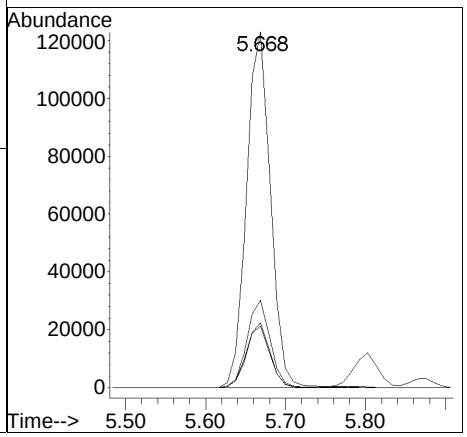


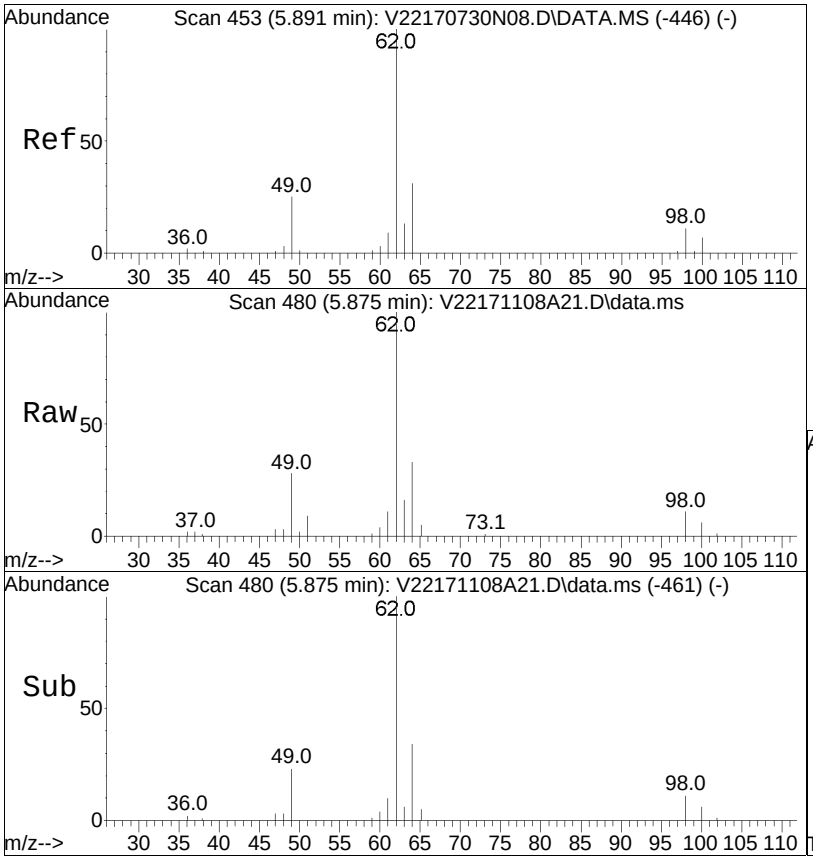


#44
Benzene
Concen: 10.57 ug/L
RT: 5.668 min Scan# 460
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 78 Resp: 280857

Ion	Ratio	Lower	Upper
78	100		
77	24.5	15.4	32.0
51	18.7	9.8	20.4
52	17.8	9.2	19.2

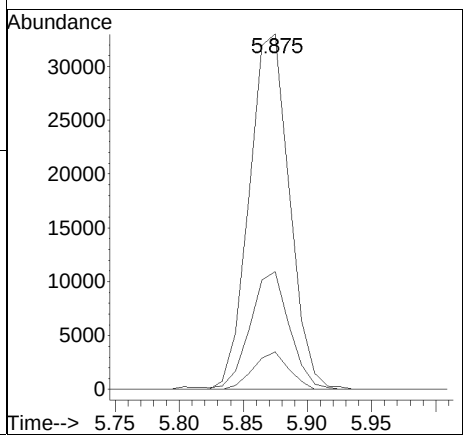


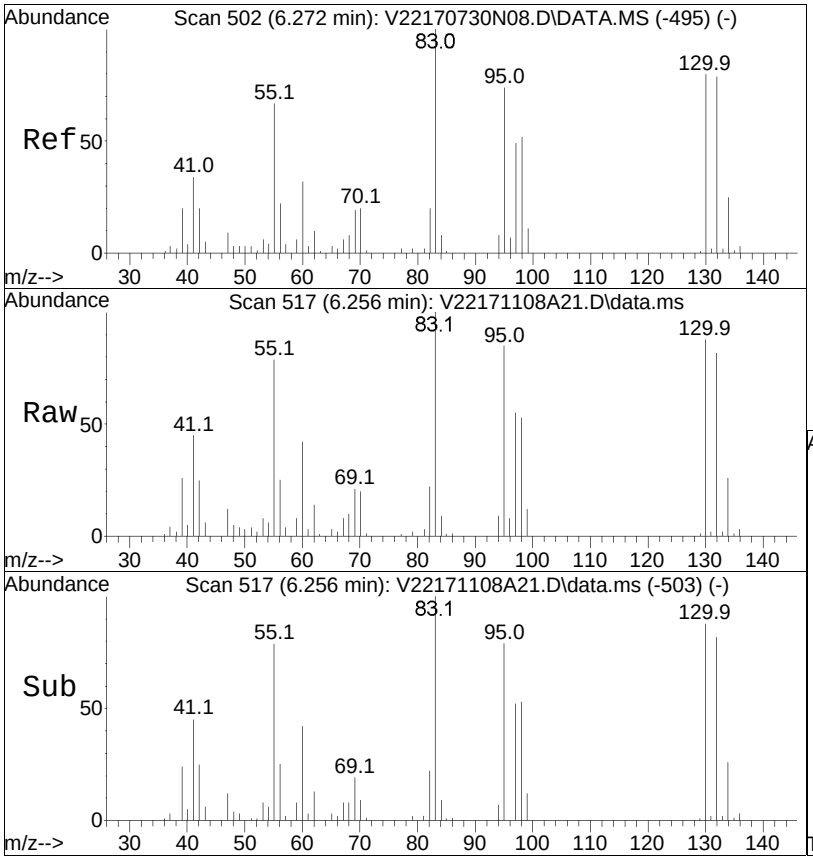


#47
1,2-Dichloroethane
Concen: 10.44 ug/L
RT: 5.875 min Scan# 480
Delta R.T. -0.008 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 62 Resp: 71998

Ion	Ratio	Lower	Upper
62	100		
64	32.9	12.3	52.3
98	9.4	0.0	30.3

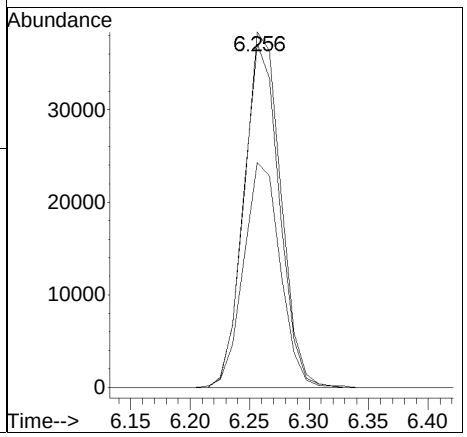


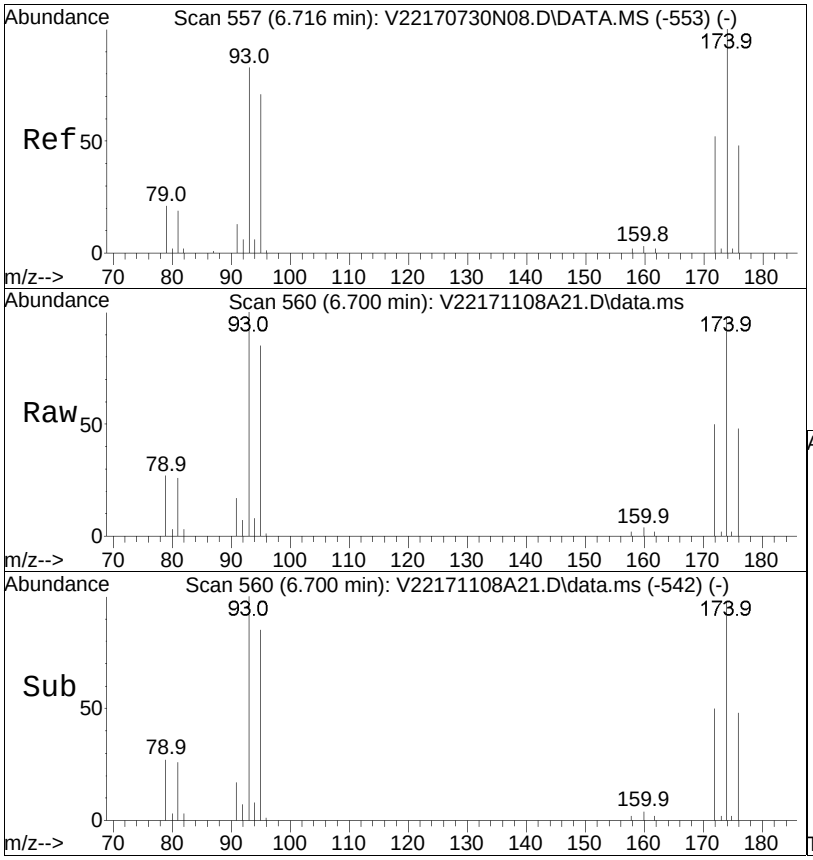


#51
Trichloroethene
Concen: 11.25 ug/L
RT: 6.256 min Scan# 517
Delta R.T. -0.016 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 95 Resp: 77271

Ion	Ratio	Lower	Upper
95	100		
97	67.4	55.0	82.4
130	105.9	89.2	133.8

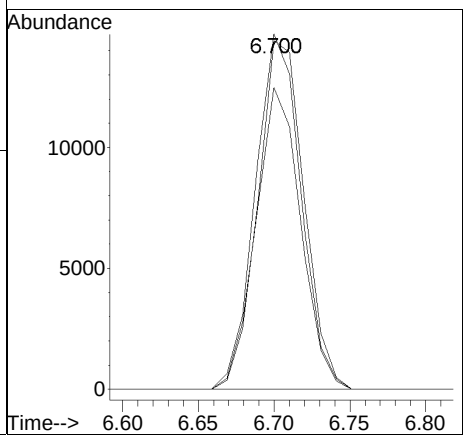


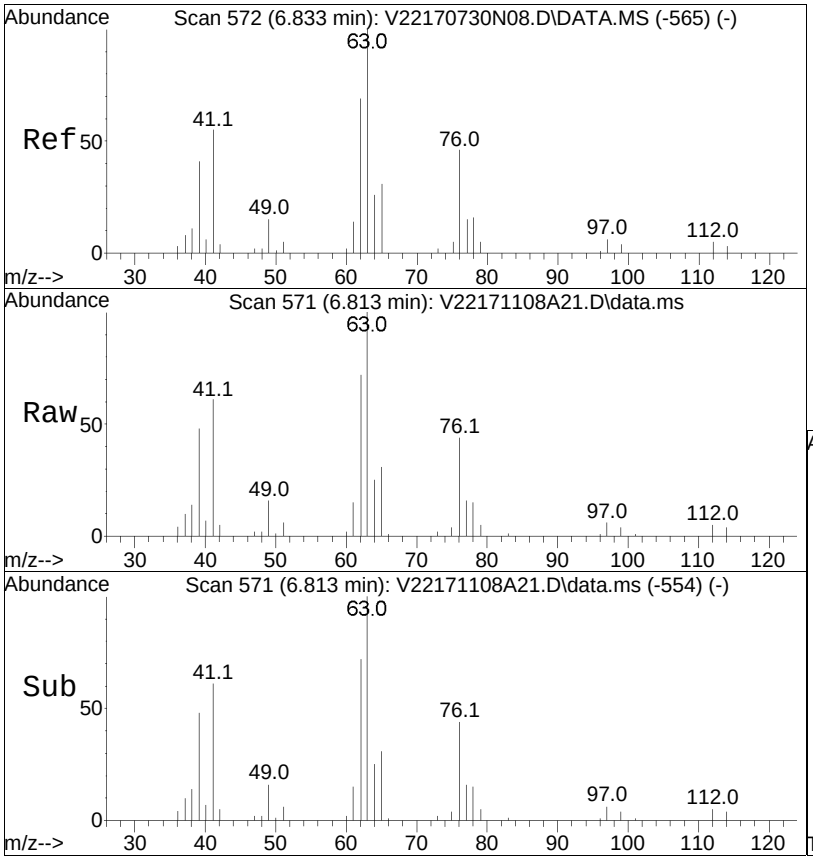


#53
Dibromomethane
Concen: 12.01 ug/L
RT: 6.700 min Scan# 560
Delta R.T. -0.016 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 93 Resp: 30719

Ion	Ratio	Lower	Upper
93	100		
95	83.9	68.0	102.0
174	99.6	106.1	159.1#

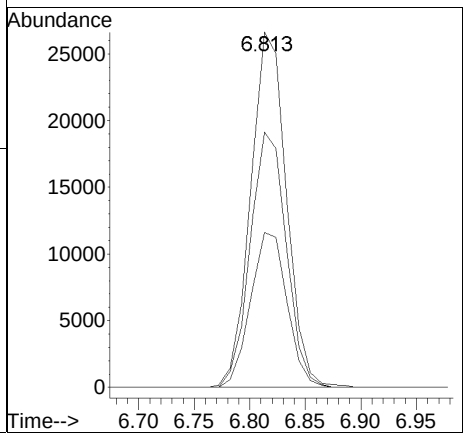


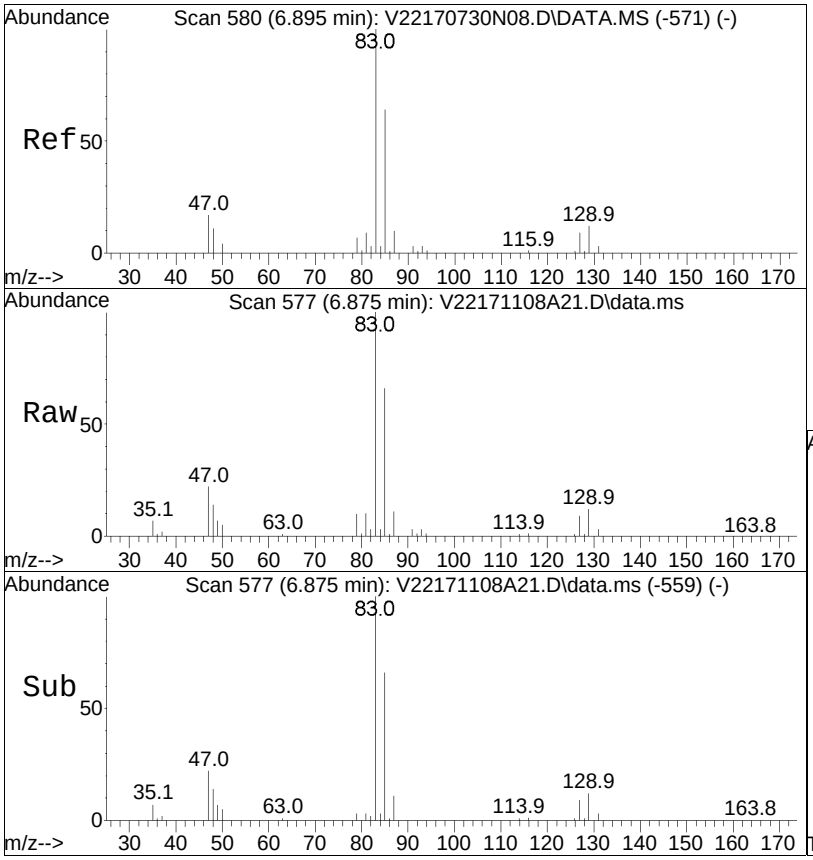


#54
1,2-Dichloropropane
Concen: 10.34 ug/L
RT: 6.813 min Scan# 571
Delta R.T. -0.020 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 63 Resp: 59649

Ion	Ratio	Lower	Upper
63	100		
62	72.3	56.9	85.3
76	44.5	35.8	53.8

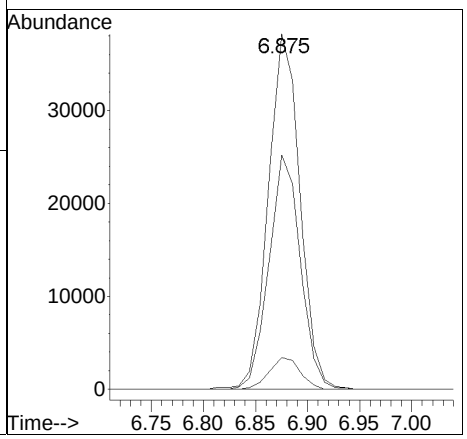


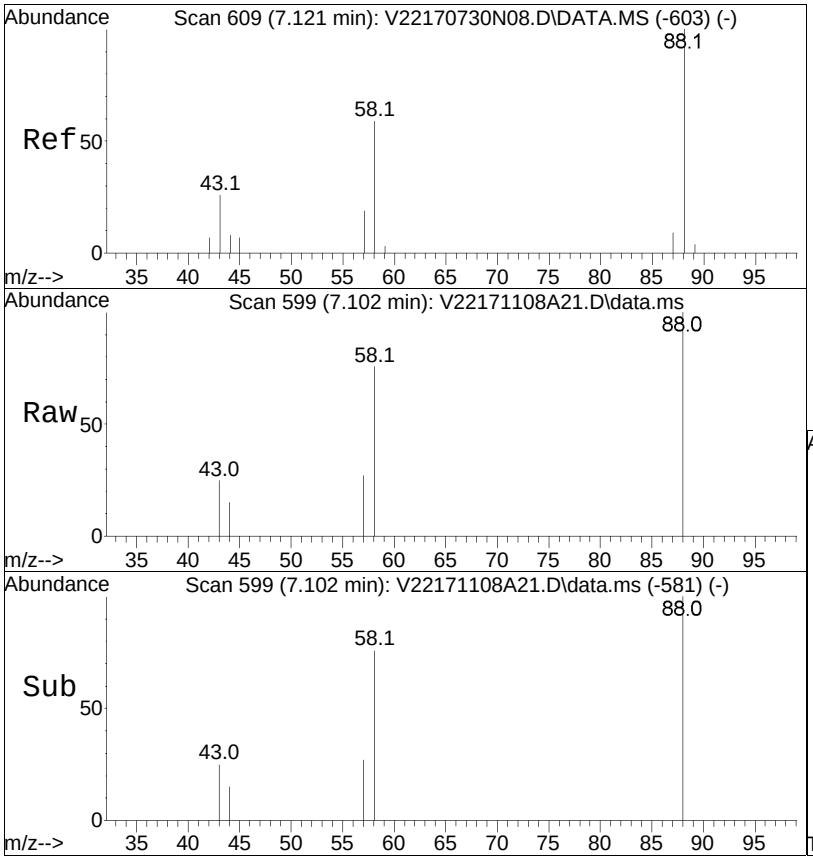


#57
Bromodichloromethane
Concen: 9.41 ug/L
RT: 6.875 min Scan# 577
Delta R.T. -0.012 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 83 Resp: 81021

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.6	77.4
127	8.8	7.4	11.0

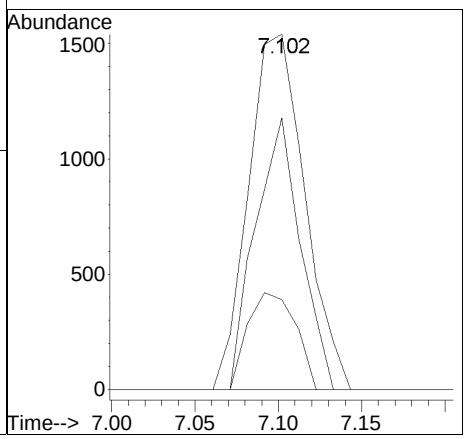


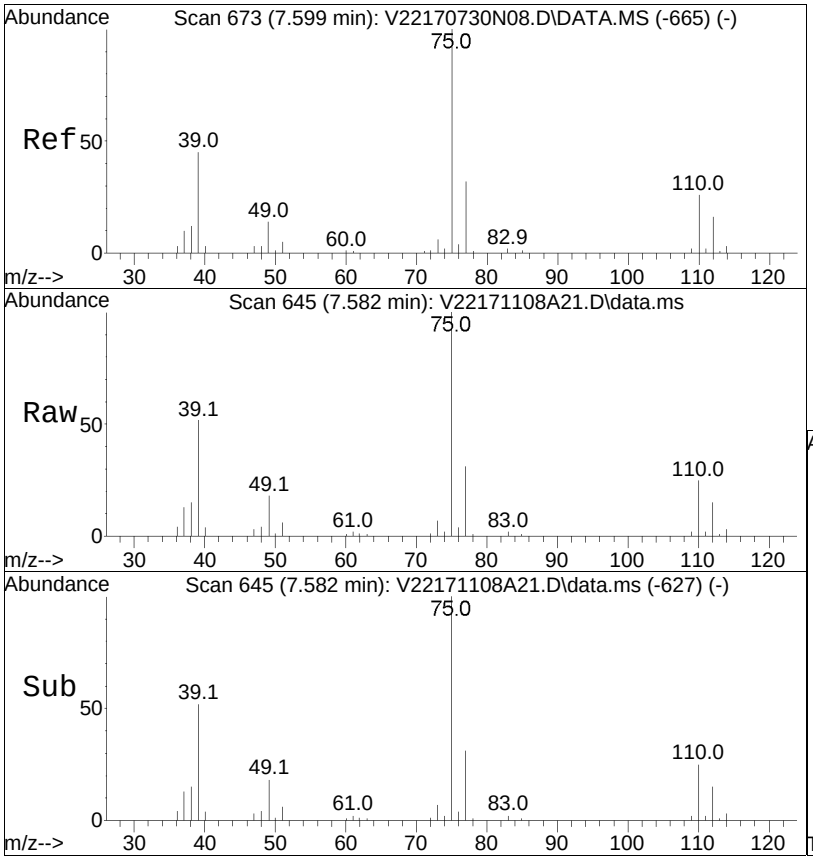


#60
1,4-Dioxane
Concen: 349.12 ug/L
RT: 7.102 min Scan# 599
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 88 Resp: 3619

Ion	Ratio	Lower	Upper
88	100		
58	61.2	43.3	64.9
43	23.2	15.1	22.7#

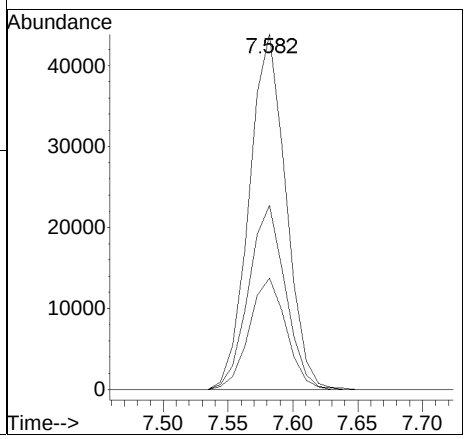


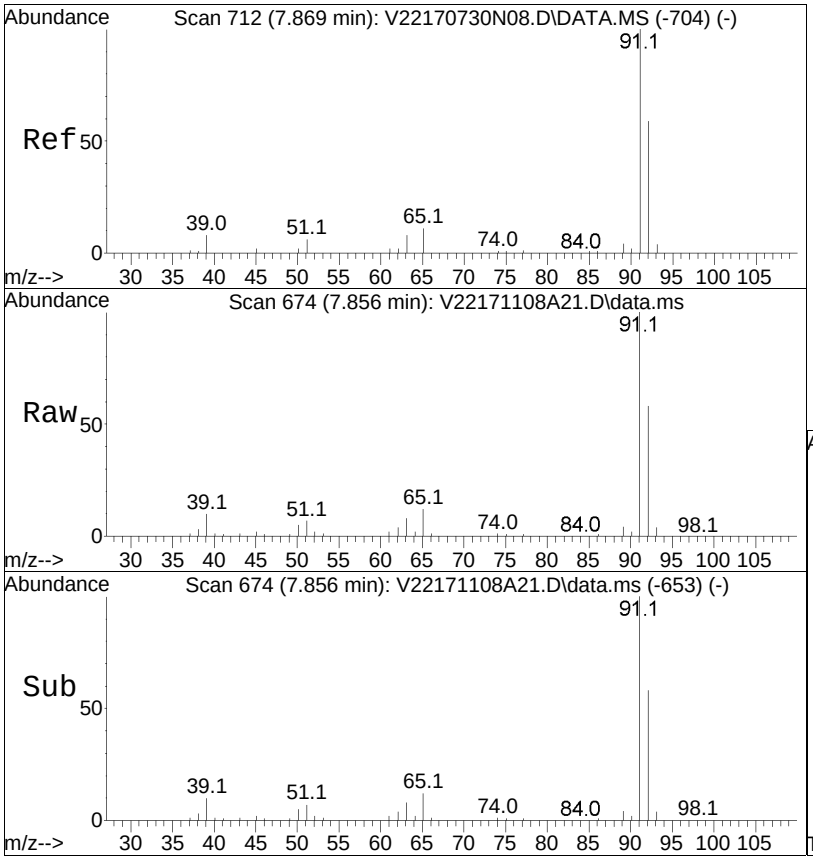


#61
cis-1,3-Dichloropropene
Concen: 8.71 ug/L
RT: 7.582 min Scan# 645
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 75 Resp: 86361

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4
39	52.0	35.4	53.0

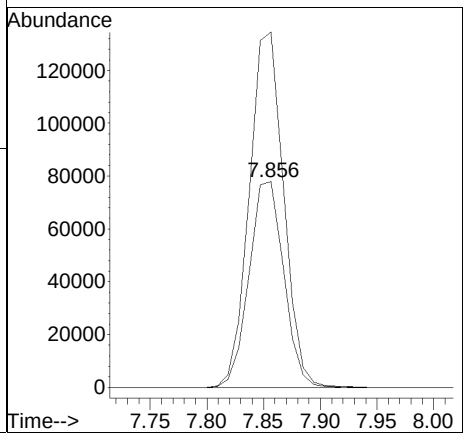


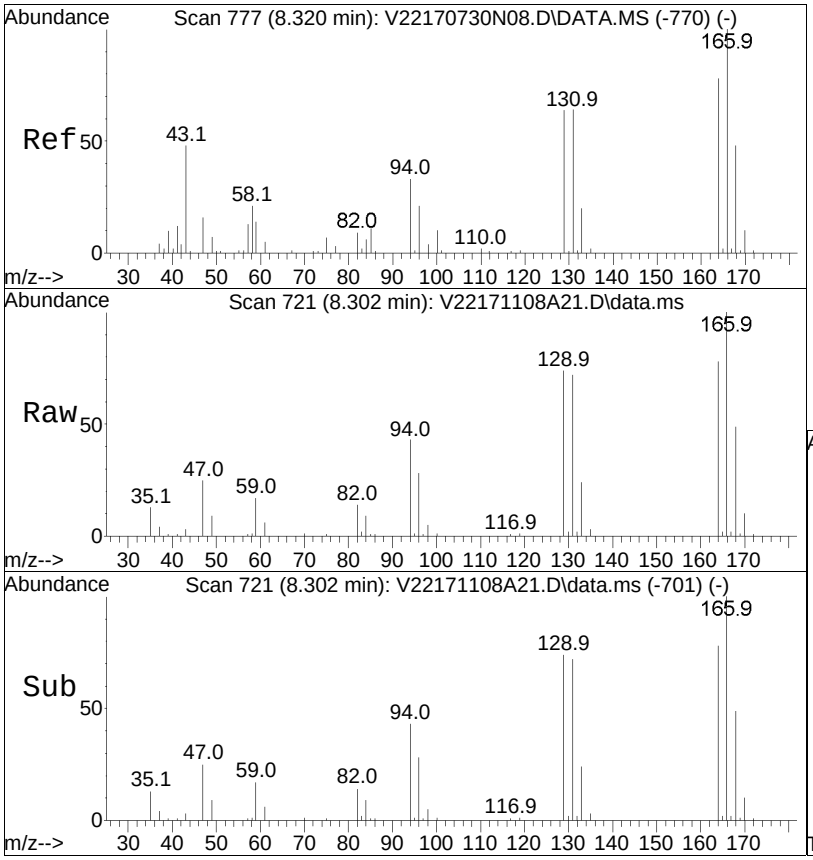


#64
Toluene
Concen: 10.64 ug/L
RT: 7.856 min Scan# 674
Delta R.T. -0.006 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 92 Resp: 165933

Ion	Ratio	Lower	Upper
92	100		
91	170.6	137.0	205.6

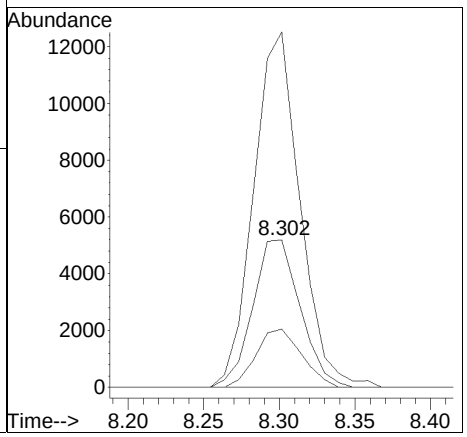


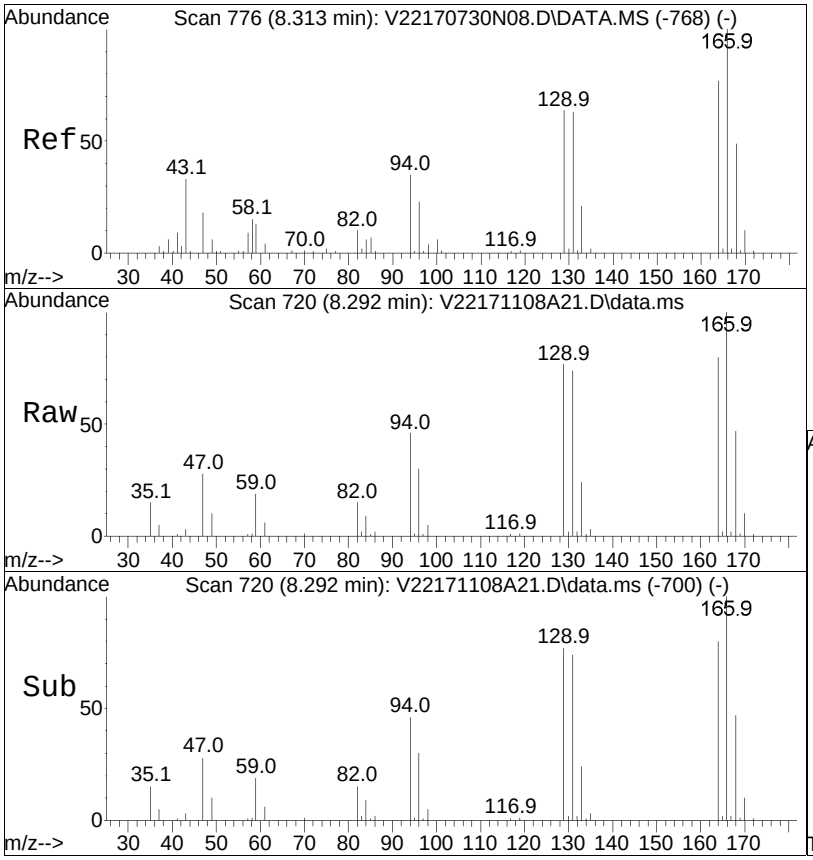


#65
4-Methyl-2-pentanone
Concen: 9.97 ug/L
RT: 8.302 min Scan# 721
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 58 Resp: 11363

Ion	Ratio	Lower	Upper
58	100		
100	38.2	36.2	54.4
43	234.4	181.8	272.8

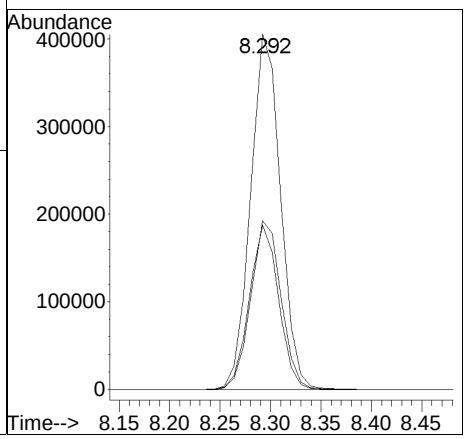


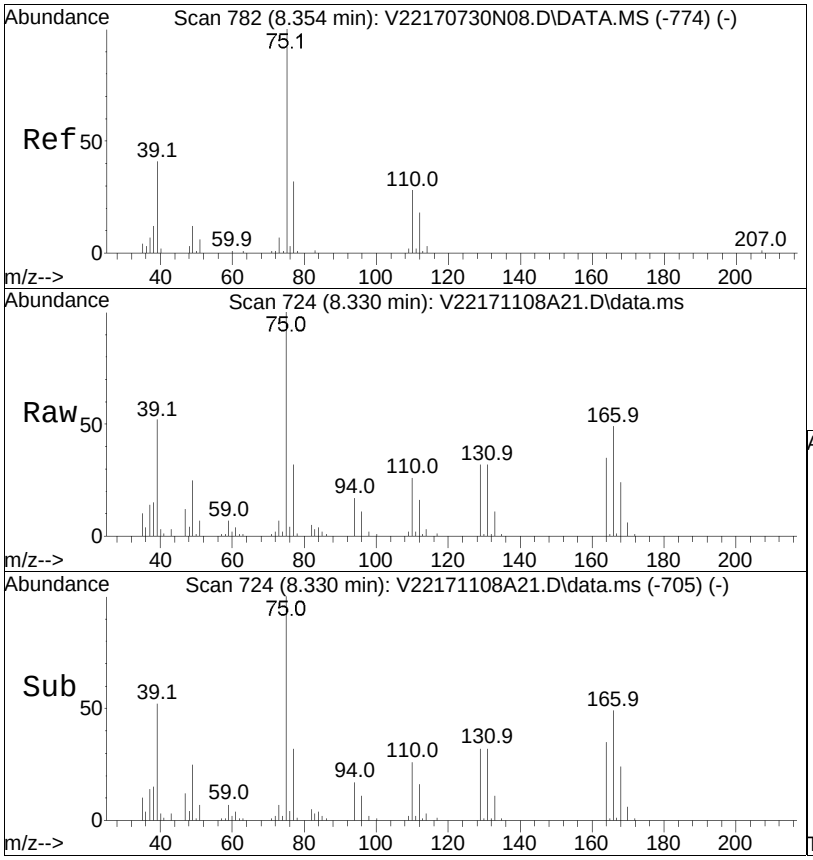


#66
Tetrachloroethene
Concen: 103.62 ug/L
RT: 8.292 min Scan# 720
Delta R.T. -0.014 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:166 Resp: 835917

Ion	Ratio	Lower	Upper
166	100		
168	47.9	27.8	67.8
94	45.3	16.7	56.7

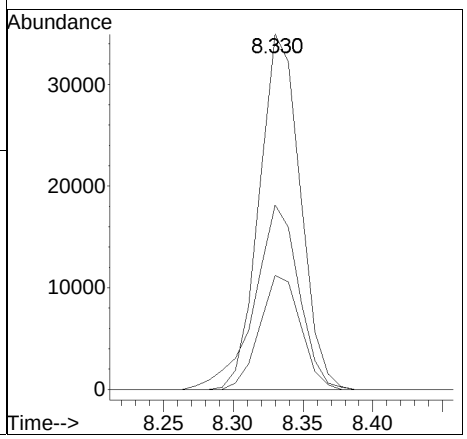


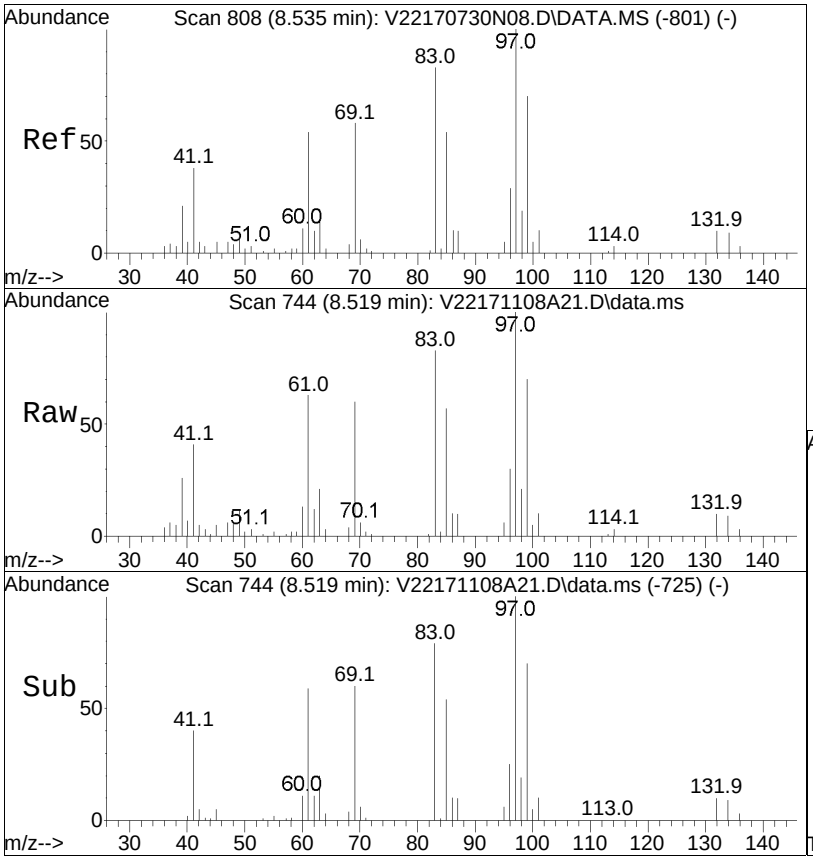


#68
trans-1,3-Dichloropropene
Concen: 9.24 ug/L
RT: 8.330 min Scan# 724
Delta R.T. -0.018 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 75 Resp: 71242

Ion	Ratio	Lower	Upper
75	100		
77	32.0	11.9	51.9
39	56.3	27.4	67.4

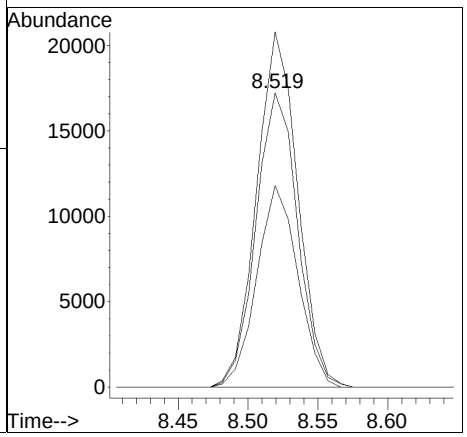


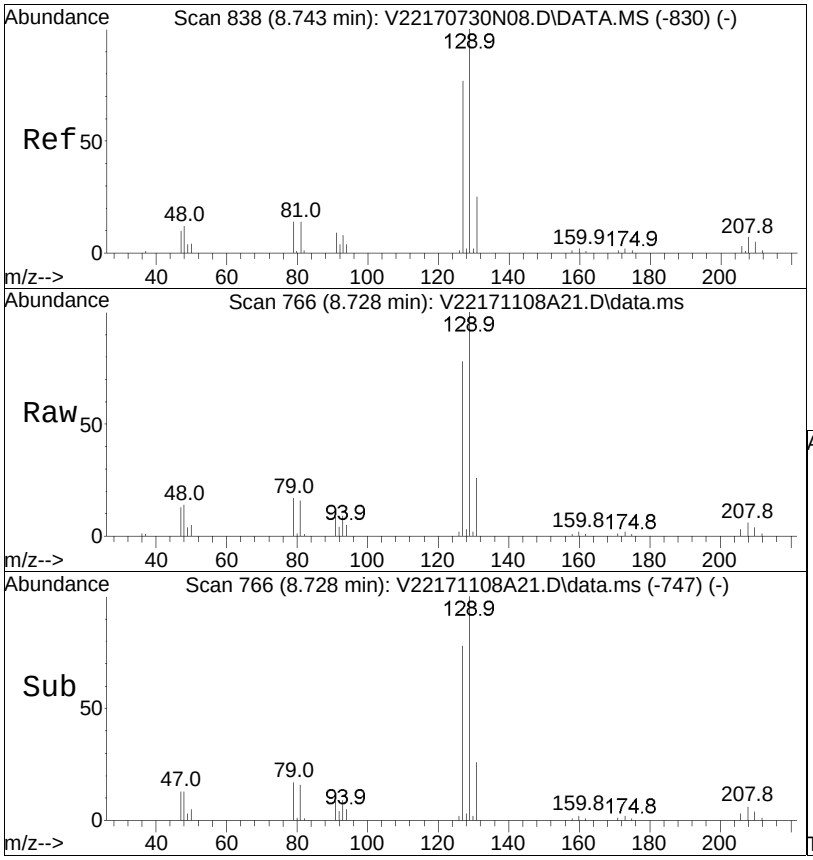


#71
1,1,2-Trichloroethane
Concen: 9.72 ug/L
RT: 8.519 min Scan# 744
Delta R.T. -0.016 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 83 Resp: 35866

Ion	Ratio	Lower	Upper
83	100		
97	119.1	103.4	143.4
85	67.6	47.9	87.9

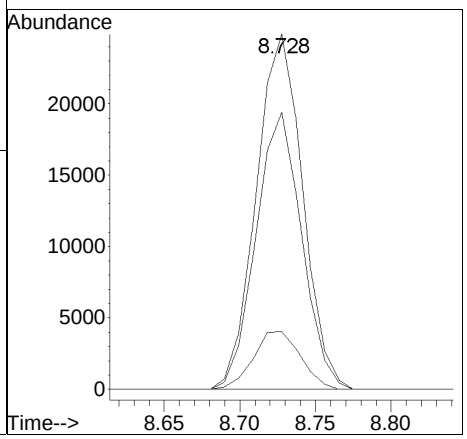


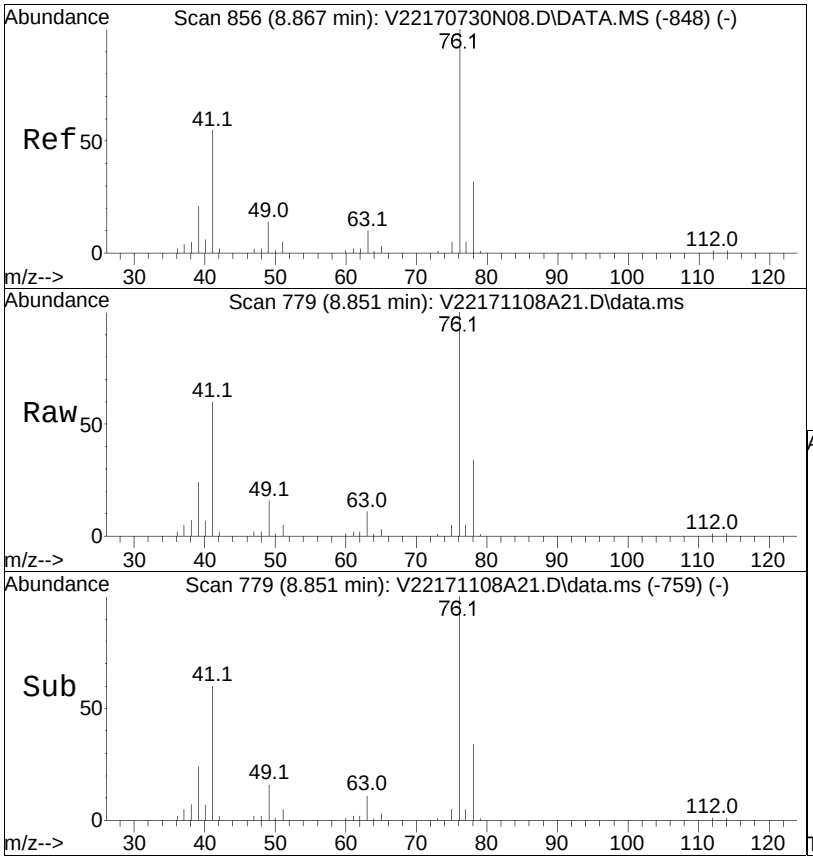


#72
Chlorodibromomethane
Concen: 9.13 ug/L
RT: 8.728 min Scan# 766
Delta R.T. -0.015 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:129 Resp: 53136

Ion	Ratio	Lower	Upper
129	100		
81	16.7	0.0	33.8
127	76.8	57.1	97.1

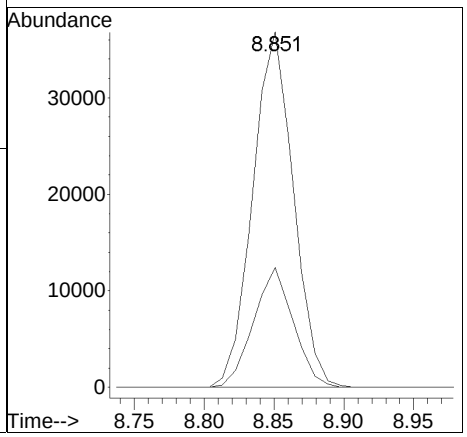


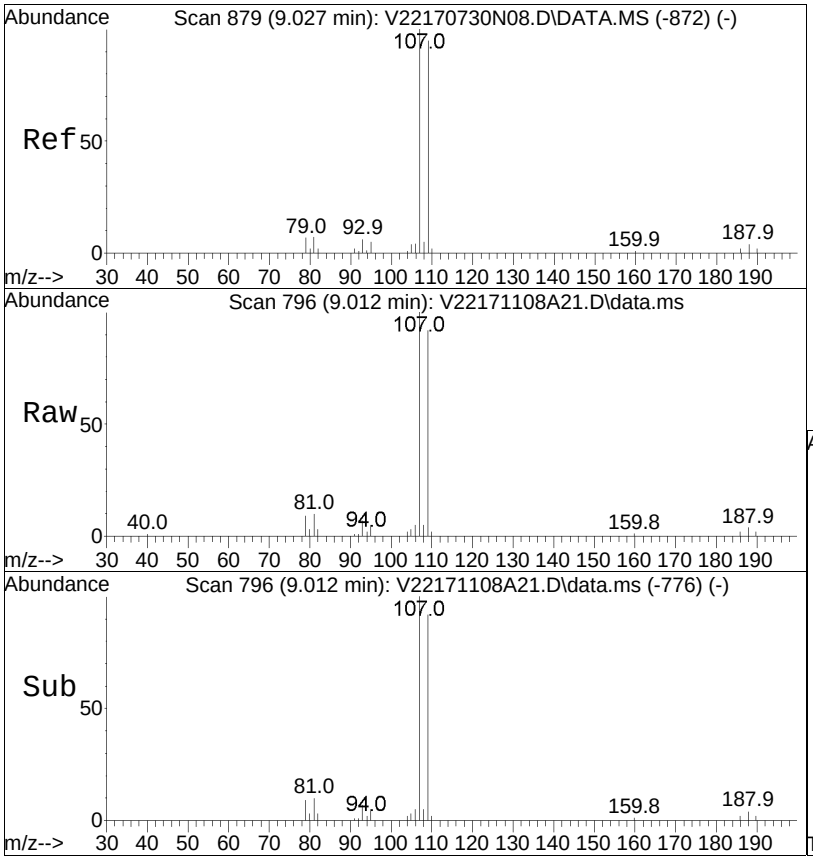


#73
1,3-Dichloropropane
Concen: 9.99 ug/L
RT: 8.851 min Scan# 779
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 76 Resp: 74750

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.7	38.5

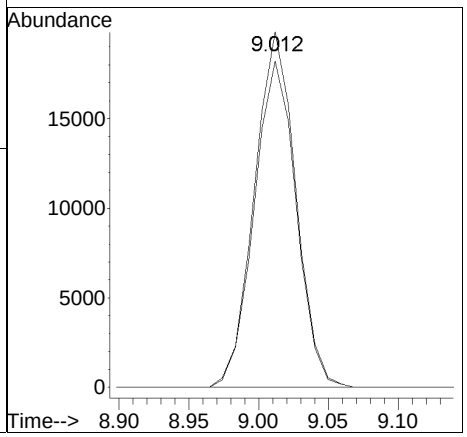


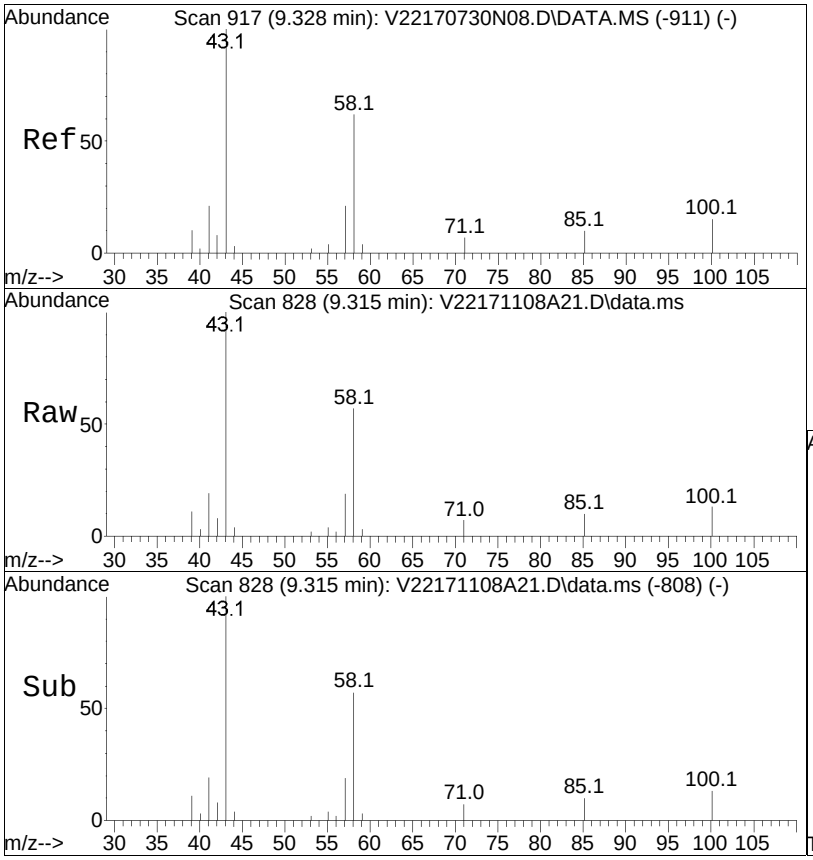


#74
1,2-Dibromoethane
Concen: 8.78 ug/L
RT: 9.012 min Scan# 796
Delta R.T. -0.015 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:107 Resp: 41043

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.1	112.7

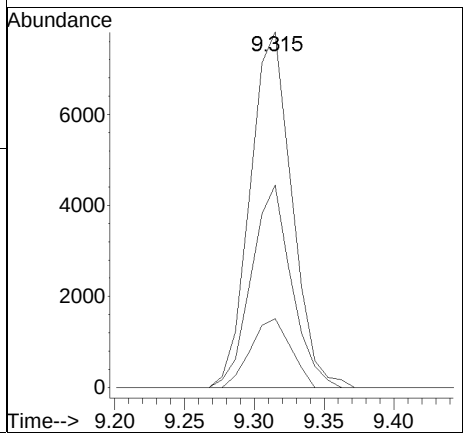


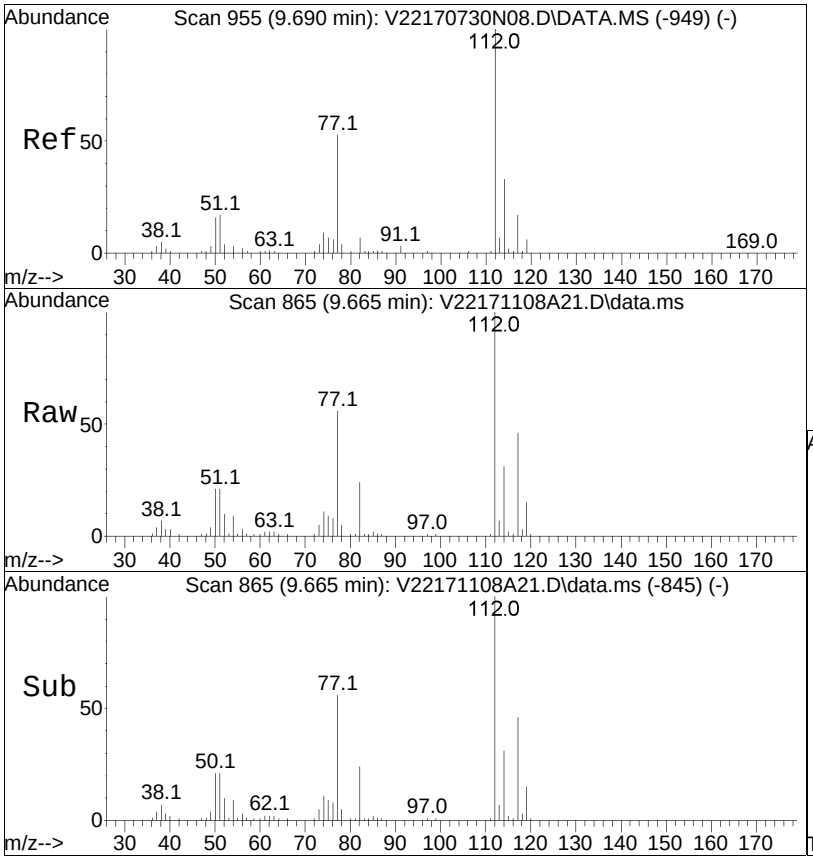


#76
2-Hexanone
Concen: 9.81 ug/L
RT: 9.315 min Scan# 828
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 43 Resp: 16249

Ion	Ratio	Lower	Upper
43	100		
58	54.9	47.6	71.4
57	18.5	16.6	24.8

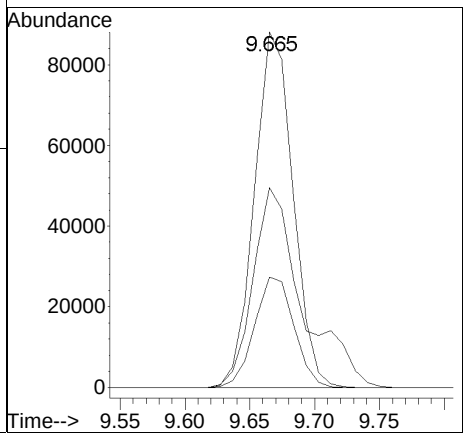


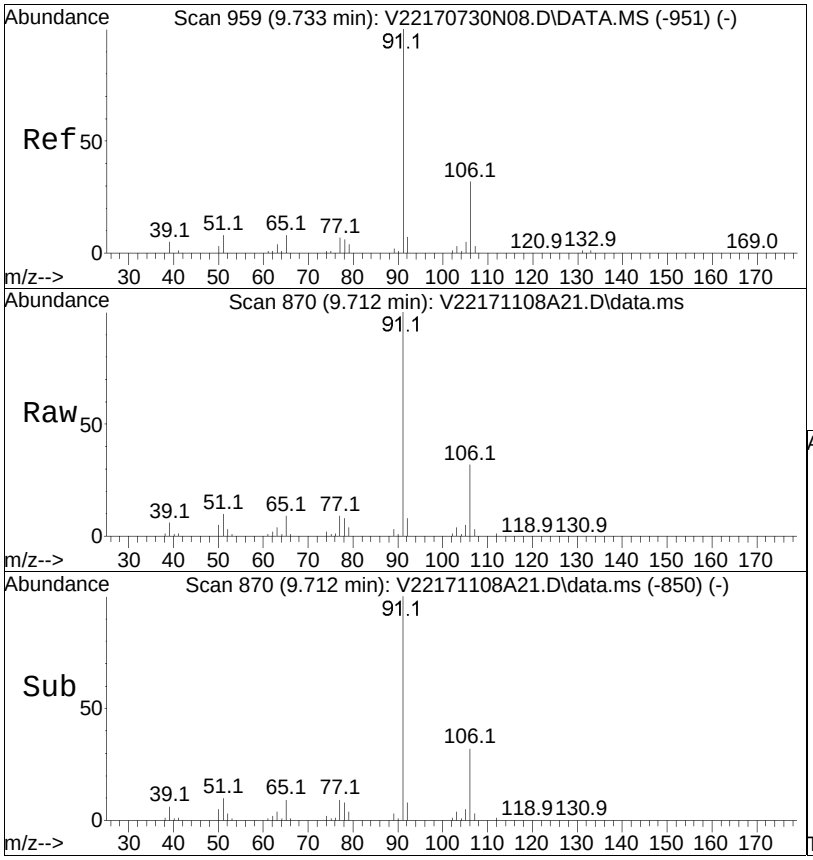


#77
Chlorobenzene
Concen: 10.03 ug/L
RT: 9.665 min Scan# 865
Delta R.T. -0.015 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:112 Resp: 181892

Ion	Ratio	Lower	Upper
112	100		
77	71.7	55.4	83.0
114	31.8	26.2	39.4

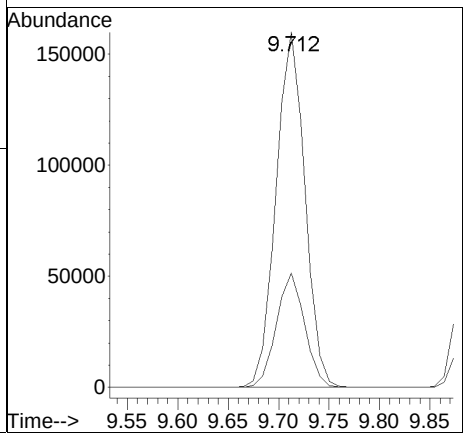


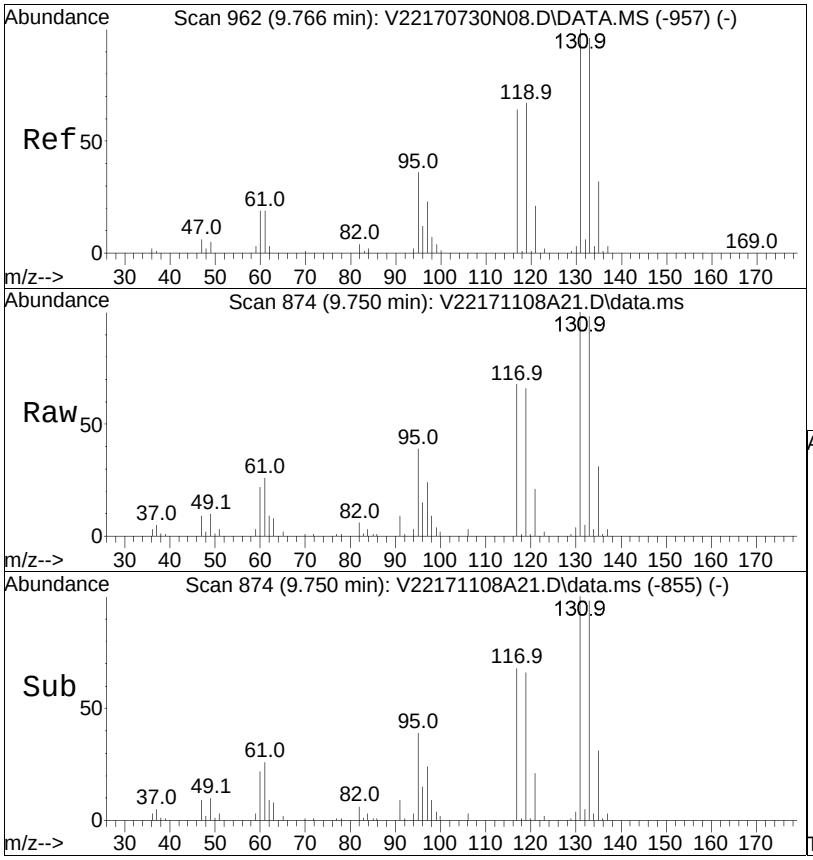


#78
Ethylbenzene
Concen: 10.40 ug/L
RT: 9.712 min Scan# 870
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 91 Resp: 318826

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.8	38.6

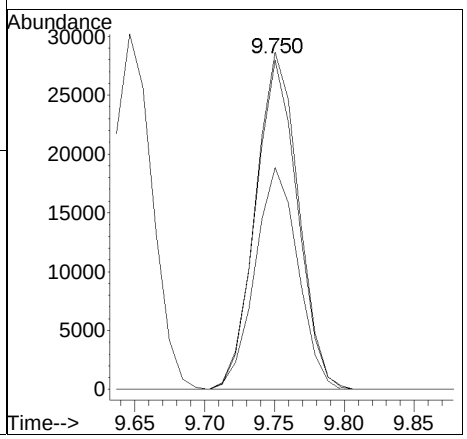


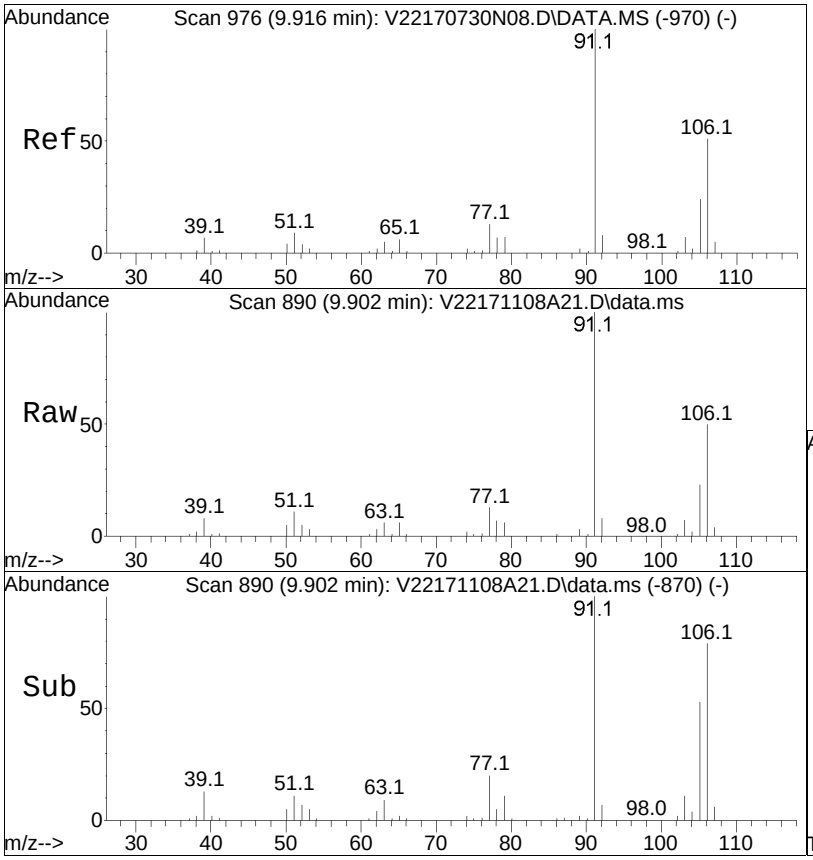


#79
1,1,1,2-Tetrachloroethane
Concen: 9.74 ug/L
RT: 9.750 min Scan# 874
Delta R.T. -0.016 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:131 Resp: 61608

Ion	Ratio	Lower	Upper
131	100		
133	95.3	75.3	115.3
119	65.5	49.3	89.3

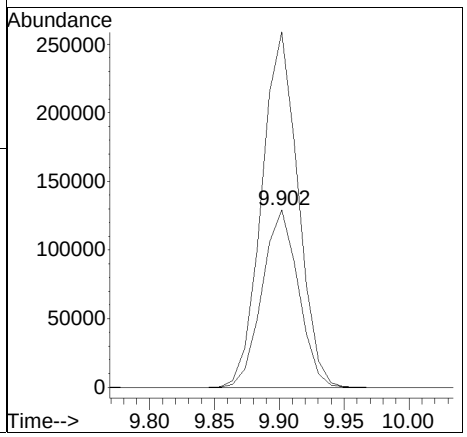


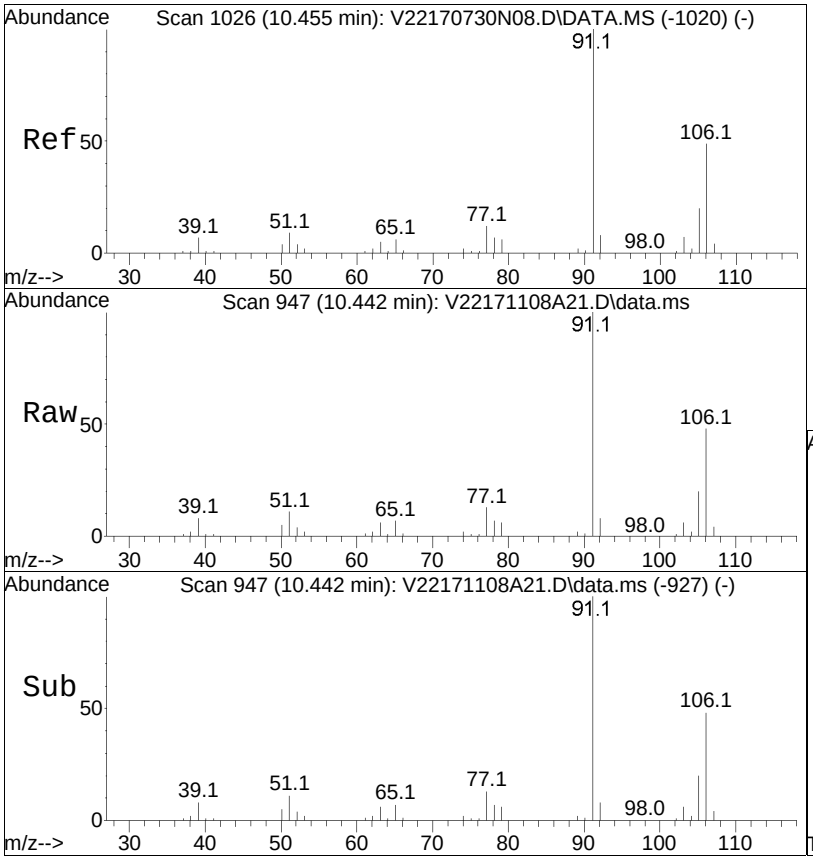


#80
p/m Xylene
Concen: 20.53 ug/L
RT: 9.902 min Scan# 890
Delta R.T. -0.014 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:106 Resp: 252066

Ion	Ratio	Lower	Upper
106	100		
91	199.8	156.0	234.0

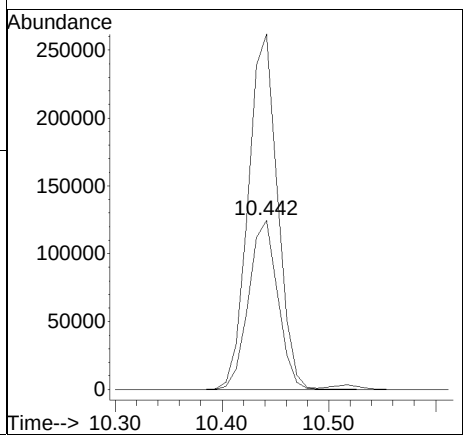


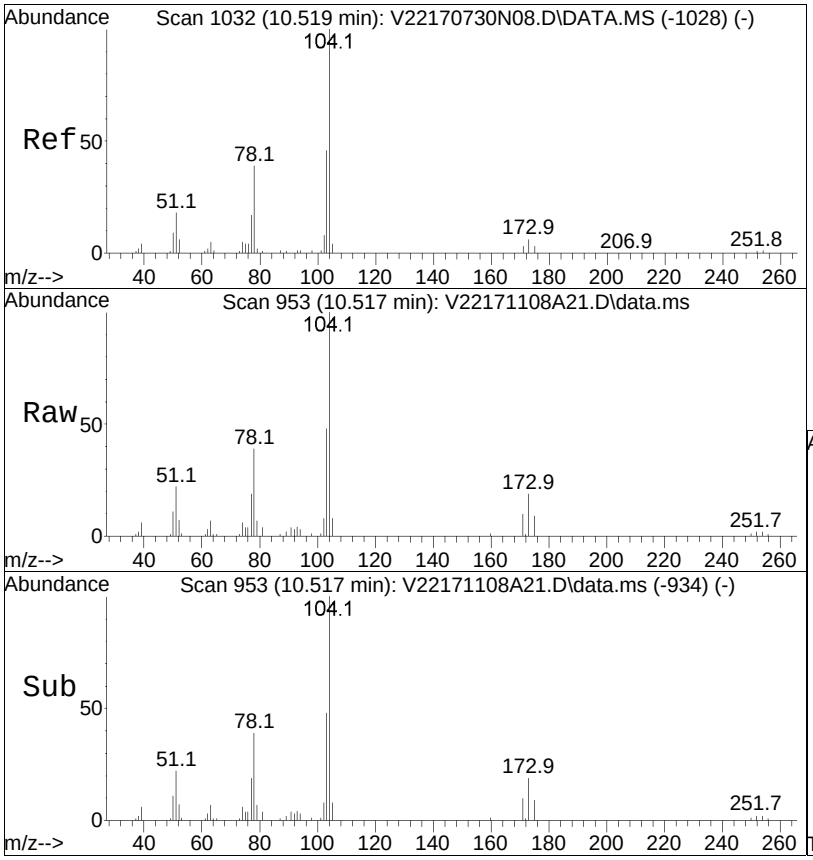


#81
o Xylene
Concen: 23.79 ug/L
RT: 10.442 min Scan# 947
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:106 Resp: 267954

Ion	Ratio	Lower	Upper
106	100		
91	186.1	164.0	246.0

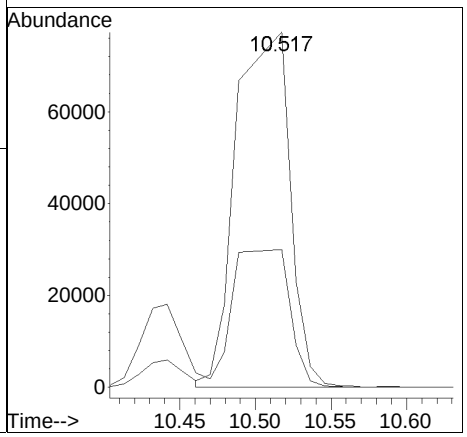


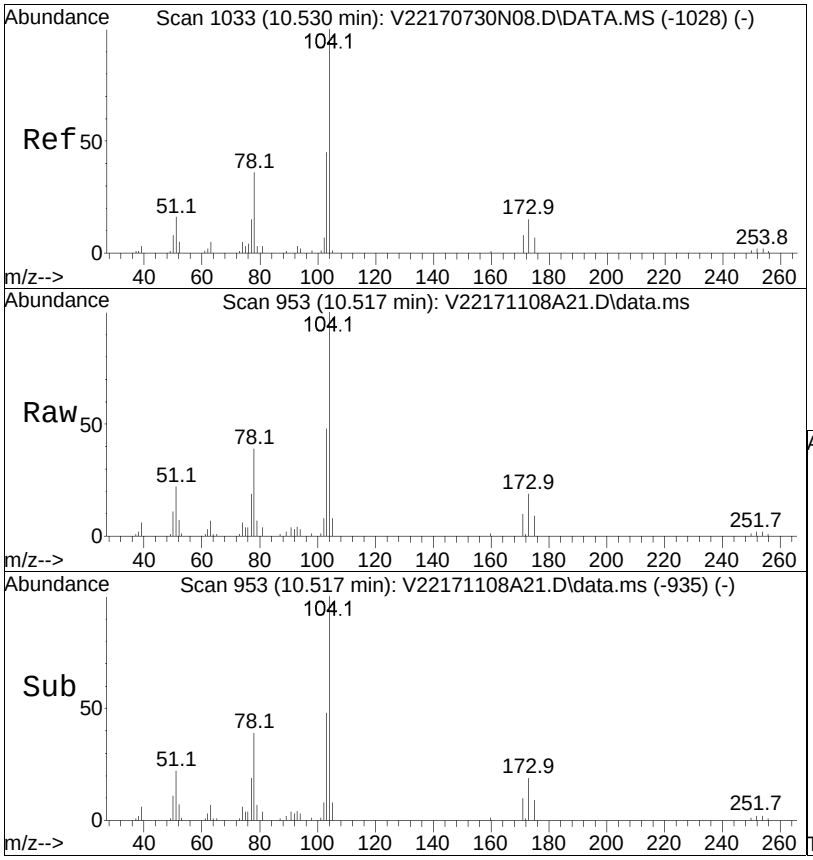


#82
Styrene
Concen: 7.29 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.002 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:104 Resp: 132429

Ion	Ratio	Lower	Upper
104	100		
78	41.1	32.1	48.1

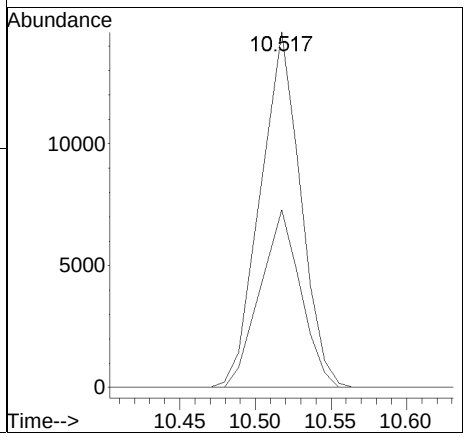


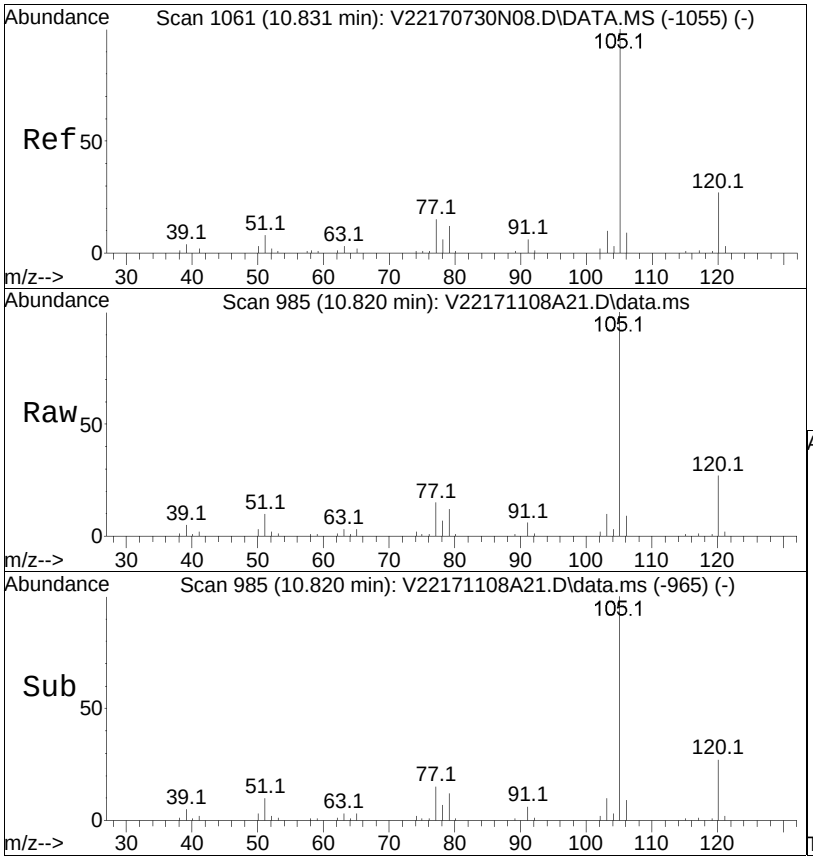


#84
Bromoform
Concen: 5.69 ug/L
RT: 10.517 min Scan# 953
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:173 Resp: 21523

Ion	Ratio	Lower	Upper
173	100		
175	52.1	29.3	69.3

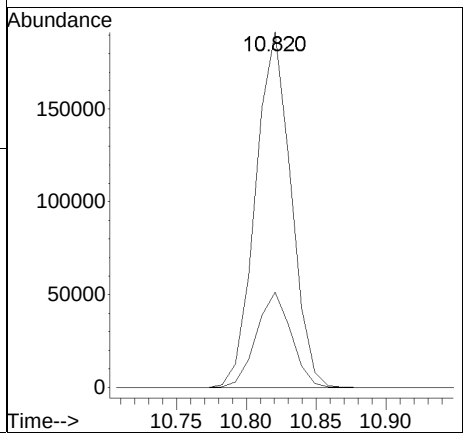


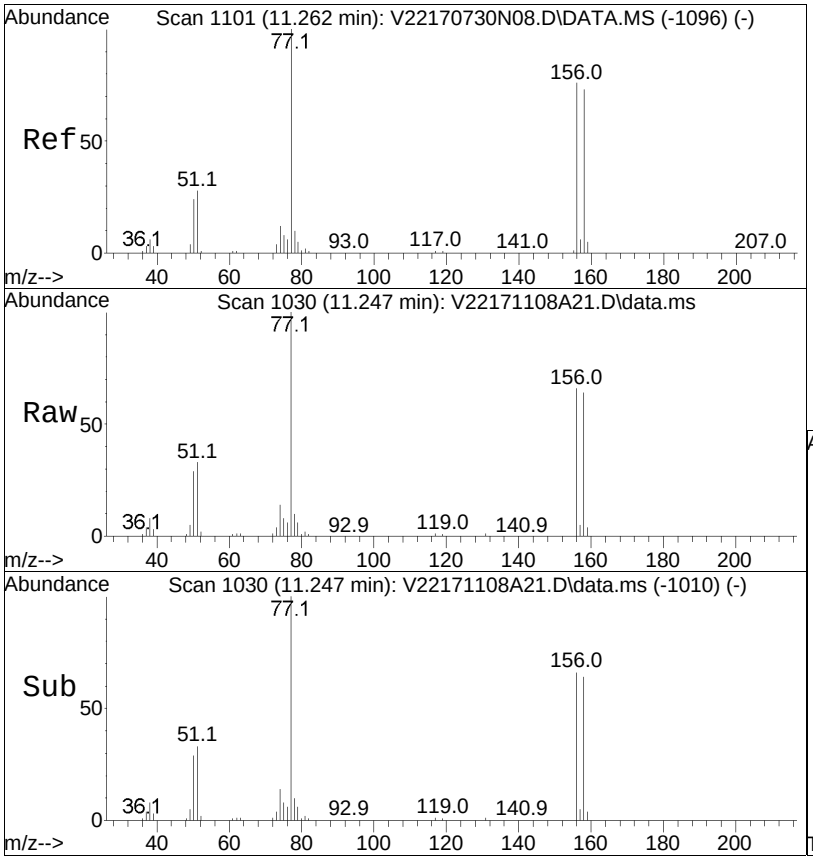


#86
Isopropylbenzene
Concen: 10.95 ug/L
RT: 10.820 min Scan# 985
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:105 Resp: 337555

Ion	Ratio	Lower	Upper
105	100		
120	26.4	7.7	47.7

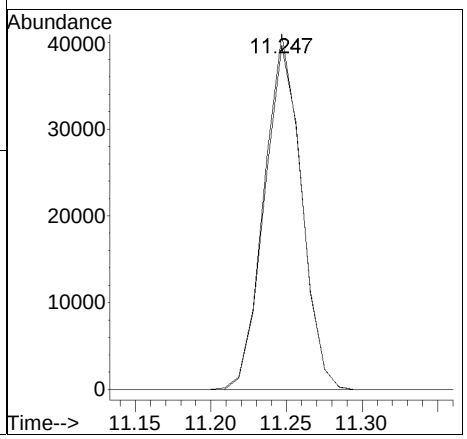


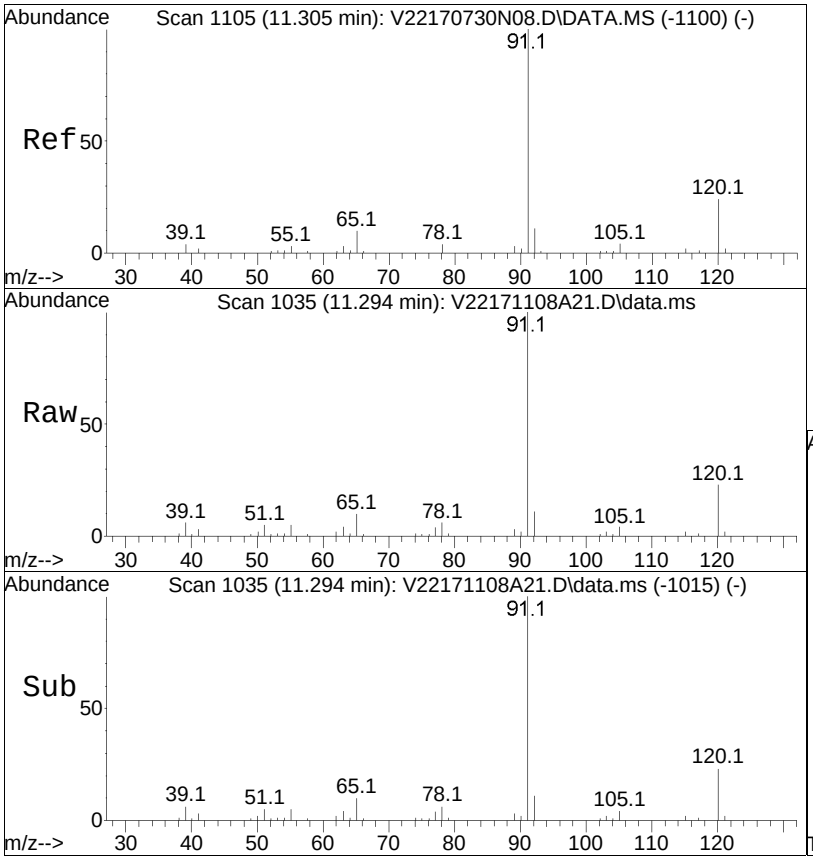


#88
Bromobenzene
Concen: 9.40 ug/L
RT: 11.247 min Scan# 1030
Delta R.T. -0.015 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:156 Resp: 70102

Ion	Ratio	Lower	Upper
156	100		
158	97.2	77.9	116.9

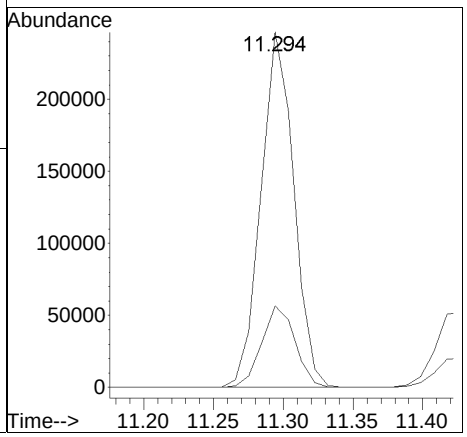


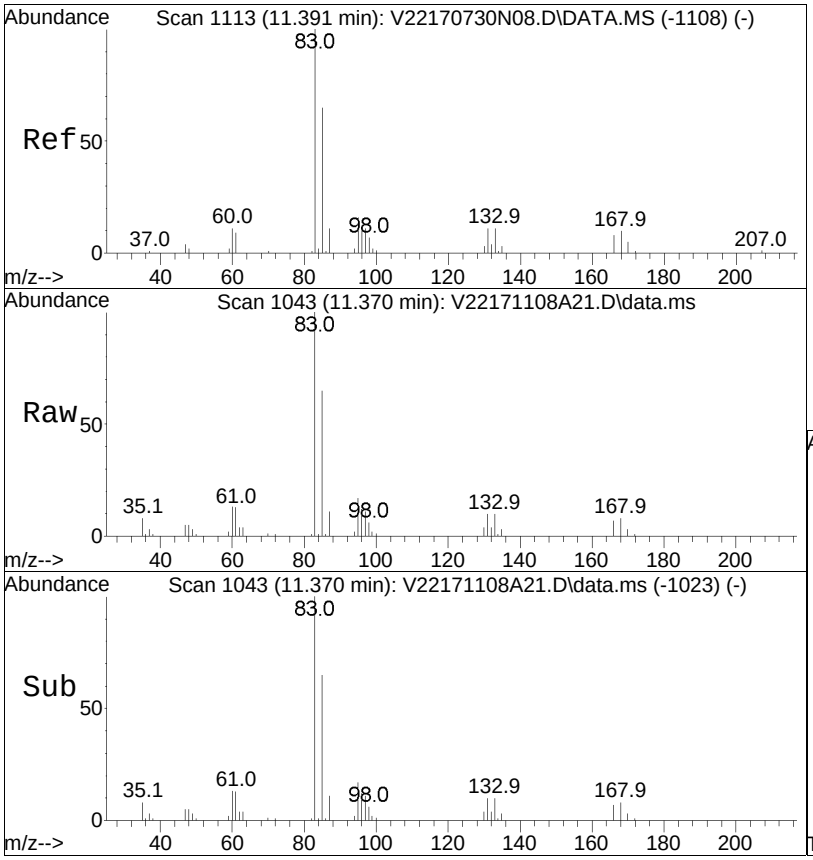


#89
n-Propylbenzene
Concen: 11.49 ug/L
RT: 11.294 min Scan# 1035
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 91 Resp: 403356

Ion	Ratio	Lower	Upper
91	100		
120	23.3	19.5	29.3

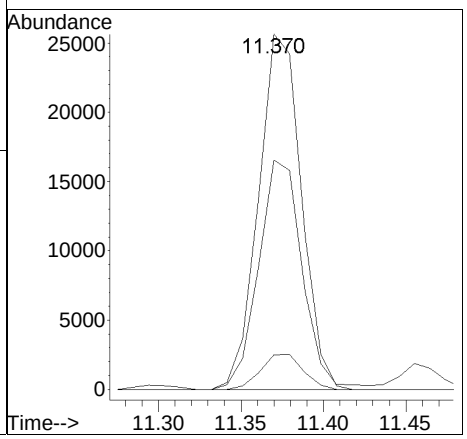


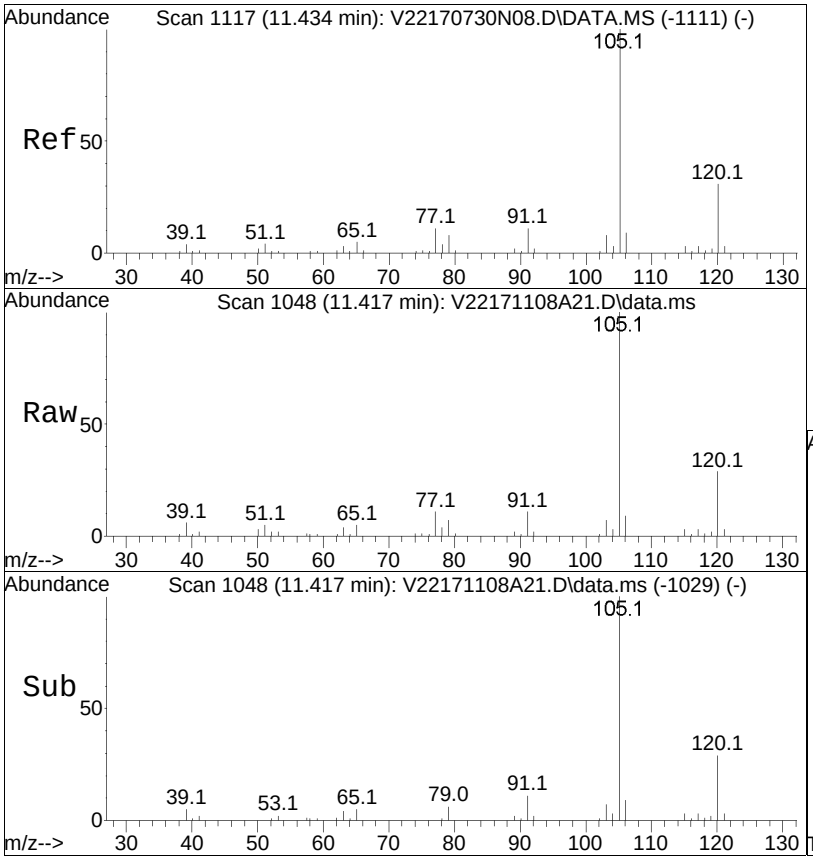


#91
1,1,2,2-Tetrachloroethane
Concen: 10.12 ug/L
RT: 11.370 min Scan# 1043
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 83 Resp: 46339

Ion	Ratio	Lower	Upper
83	100		
131	9.8	0.0	30.8
85	65.8	45.4	85.4

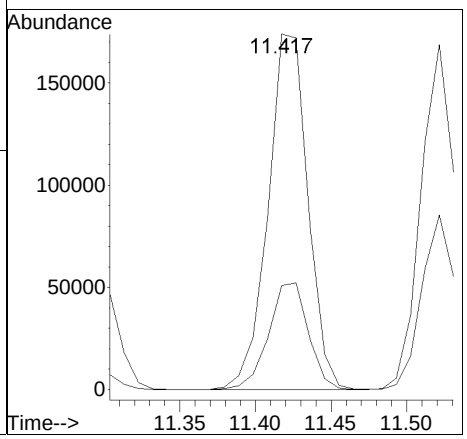


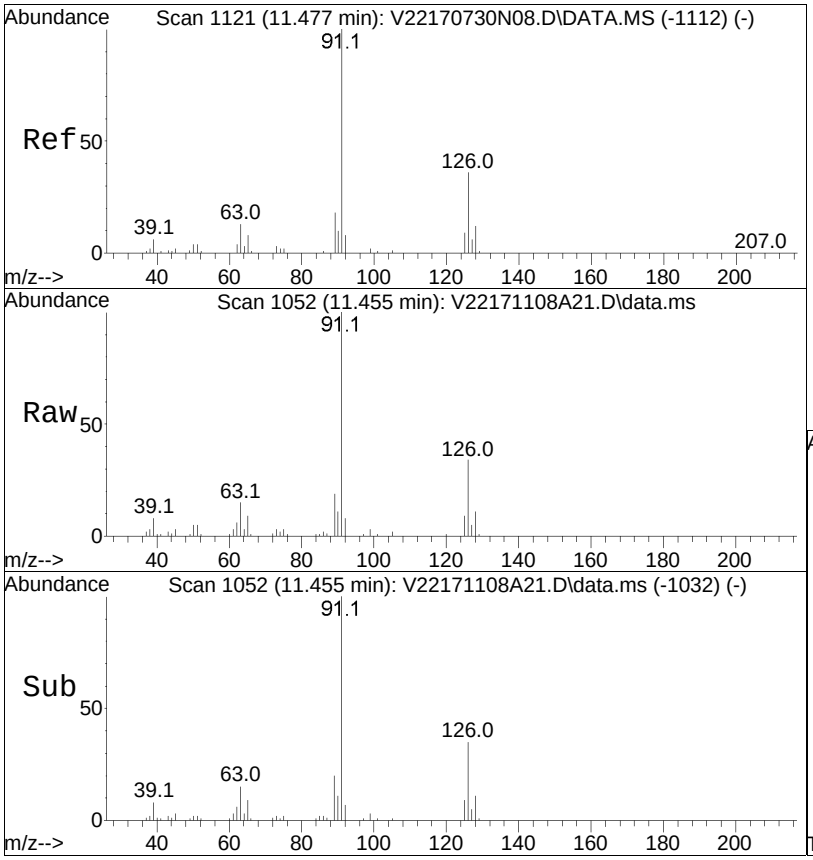


#92
4-Ethyltoluene
Concen: 11.27 ug/L
RT: 11.417 min Scan# 1048
Delta R.T. -0.017 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:105 Resp: 318694

Ion	Ratio	Lower	Upper
105	100		
120	29.8	19.8	41.0

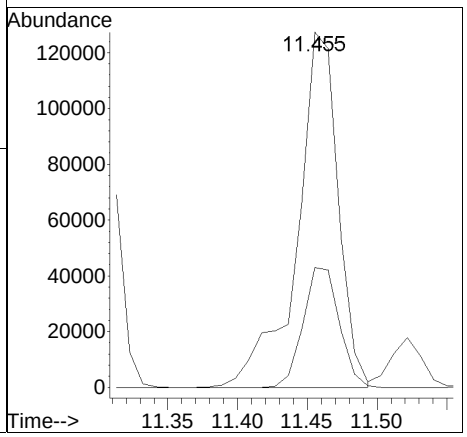


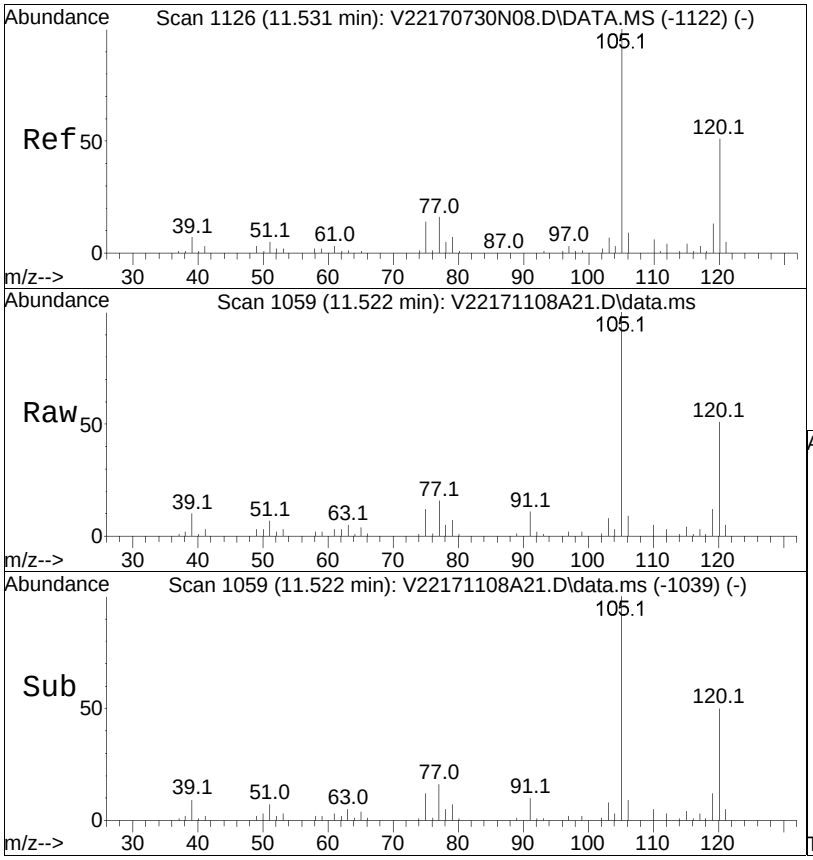


#93
2-Chlorotoluene
Concen: 11.51 ug/L
RT: 11.455 min Scan# 1052
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 91 Resp: 260898

Ion	Ratio	Lower	Upper
91	100		
126	29.6	24.6	37.0

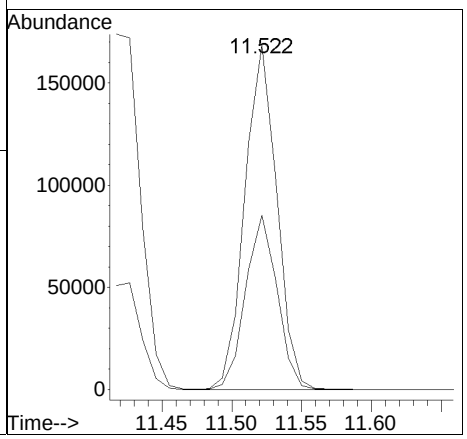


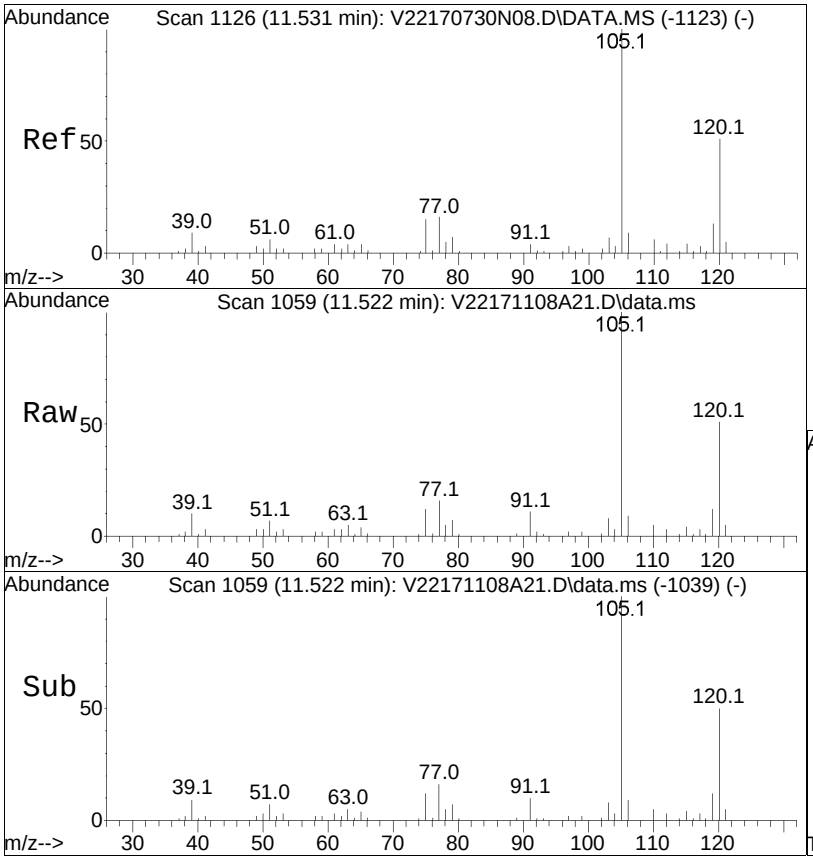


#94
1,3,5-Trimethylbenzene
Concen: 11.13 ug/L
RT: 11.522 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:105 Resp: 268844

Ion	Ratio	Lower	Upper
105	100		
120	50.0	40.9	61.3

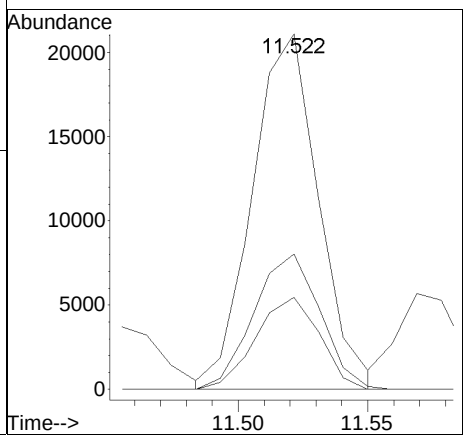


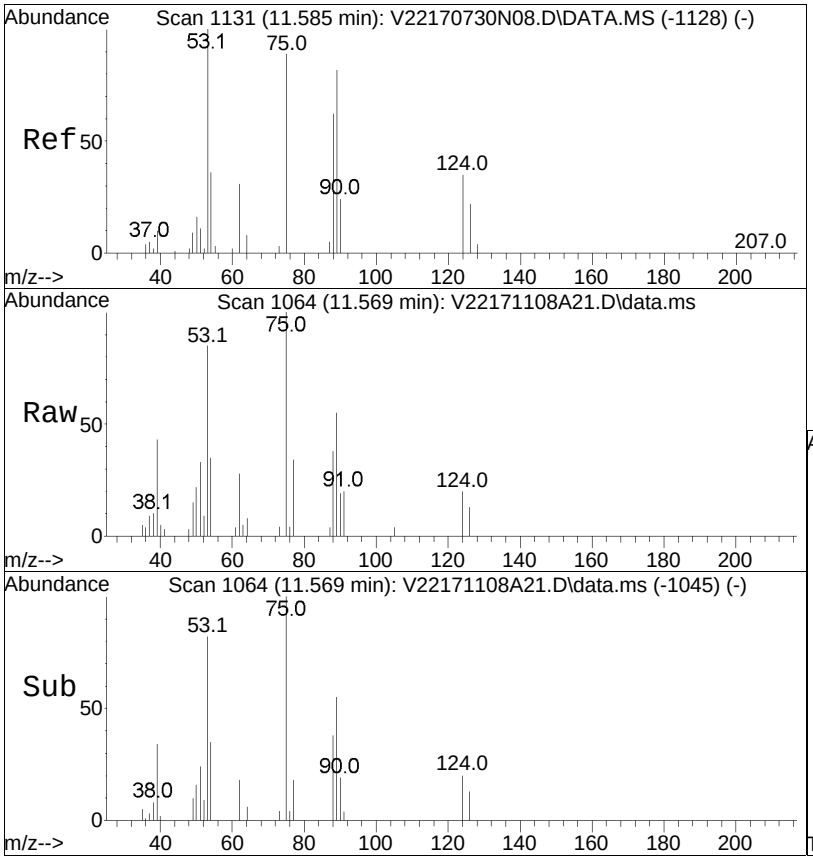


#95
1,2,3-Trichloropropane
Concen: 10.20 ug/L
RT: 11.522 min Scan# 1059
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 75 Resp: 37470

Ion	Ratio	Lower	Upper
75	100		
110	38.2	26.3	54.7
112	25.0	16.8	35.0

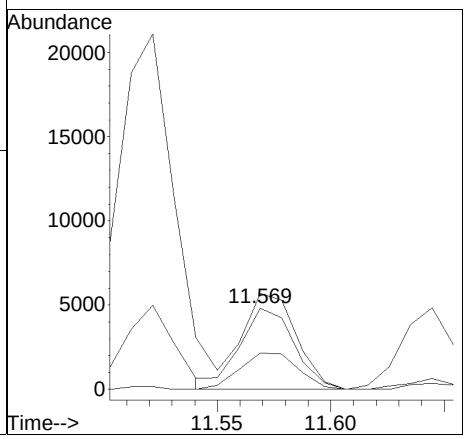


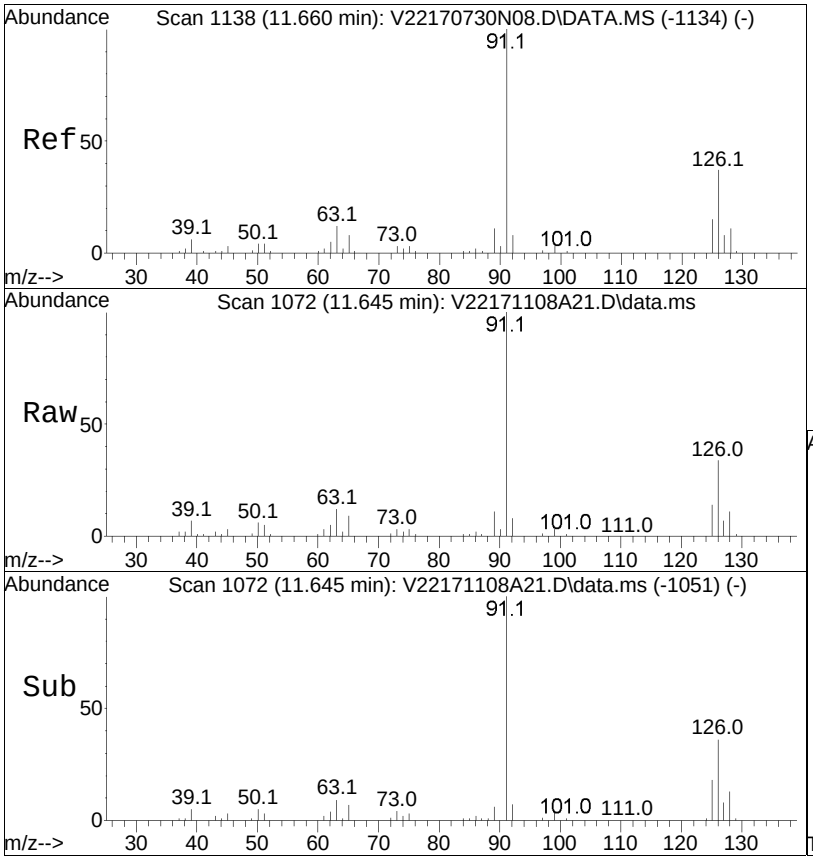


#96
trans-1,4-Dichloro-2-butene
Concen: 6.99 ug/L
RT: 11.569 min Scan# 1064
Delta R.T. -0.016 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 53 Resp: 8070

Ion	Ratio	Lower	Upper
53	100		
88	48.1	46.3	69.5
75	115.5	109.0	163.4

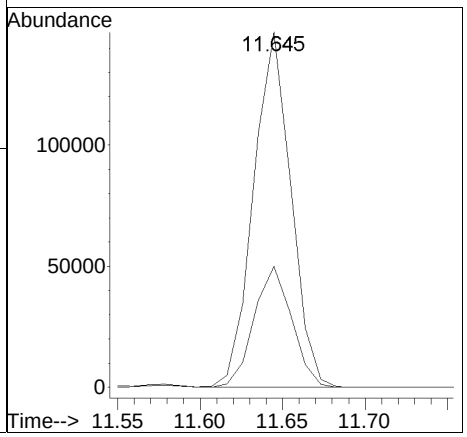


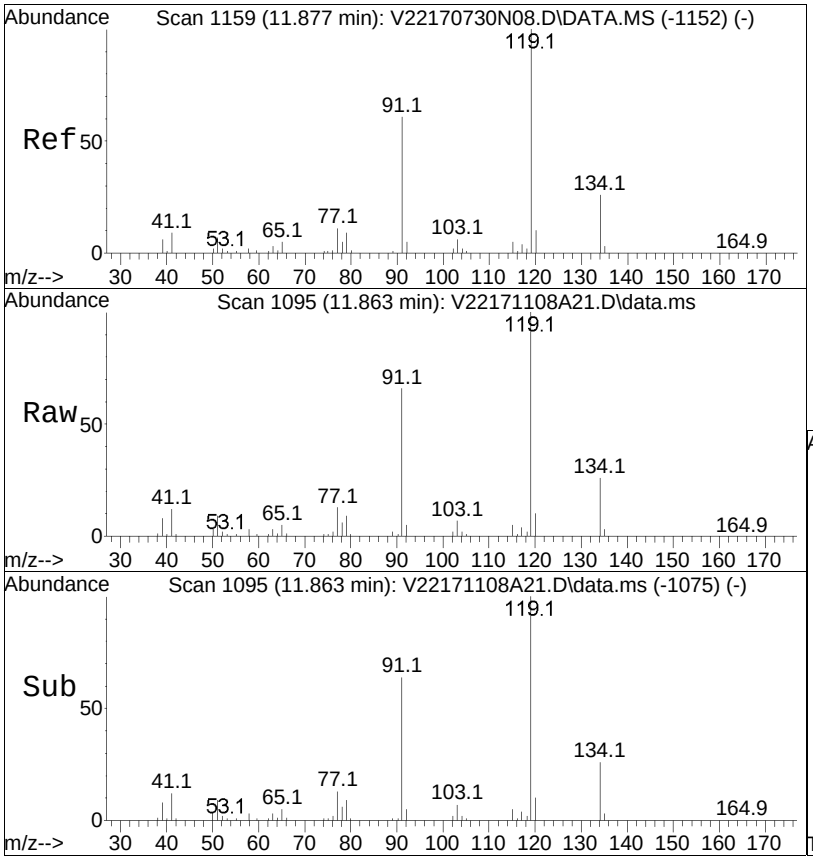


#97
4-Chlorotoluene
Concen: 11.23 ug/L
RT: 11.645 min Scan# 1072
Delta R.T. -0.004 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 91 Resp: 231930

Ion	Ratio	Lower	Upper
91	100		
126	34.3	28.5	42.7

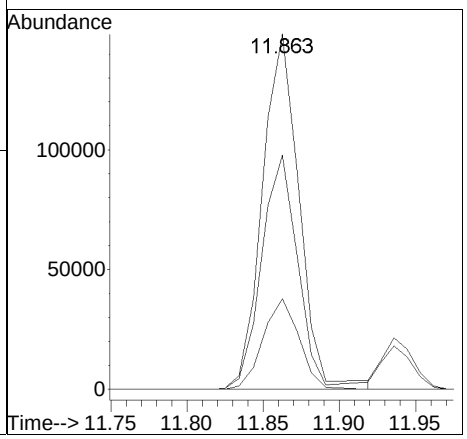


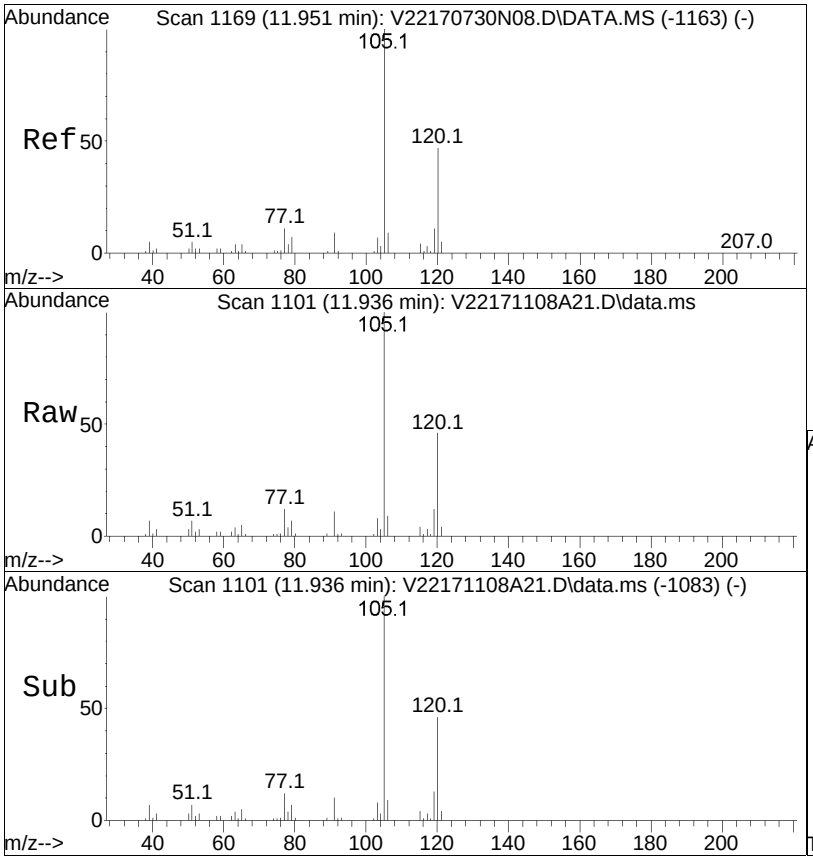


#98
tert-Butylbenzene
Concen: 13.19 ug/L
RT: 11.863 min Scan# 1095
Delta R.T. -0.007 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:119 Resp: 291914

Ion	Ratio	Lower	Upper
119	100		
91	54.5	50.2	75.4
134	25.0	20.8	31.2

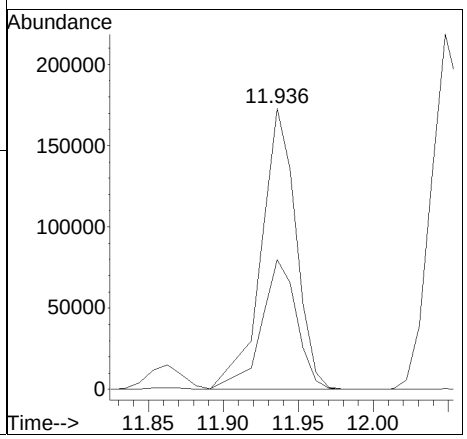


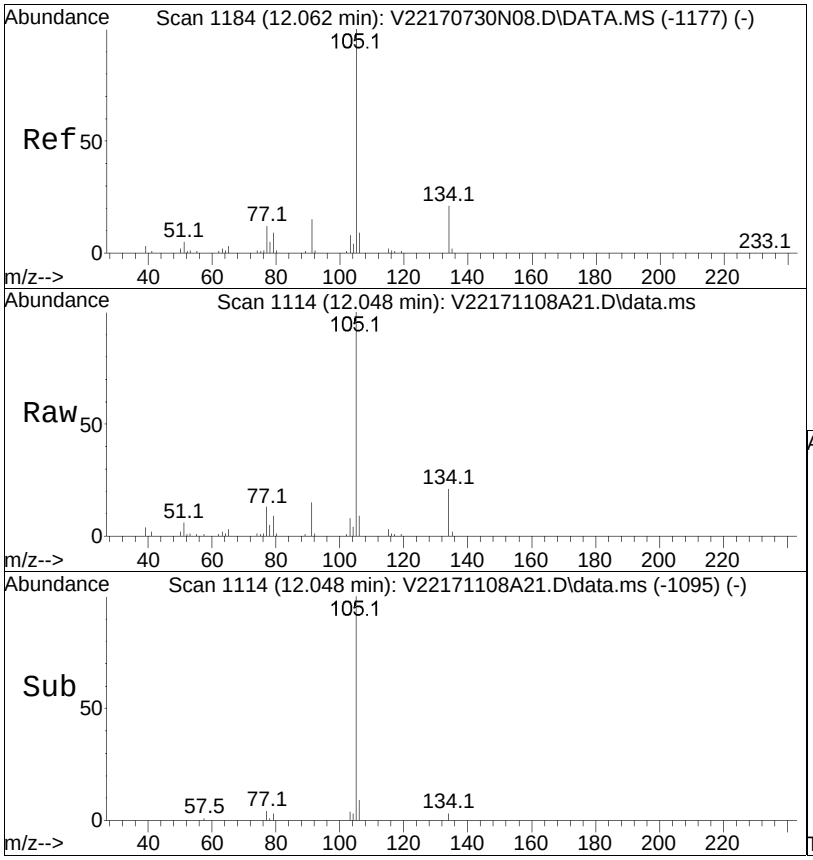


#101
1,2,4-Trimethylbenzene
Concen: 13.09 ug/L
RT: 11.936 min Scan# 1101
Delta R.T. -0.015 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:105 Resp: 316506

Ion	Ratio	Lower	Upper
105	100		
120	48.4	38.5	57.7

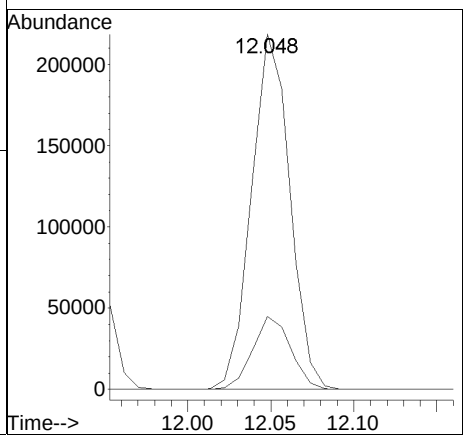


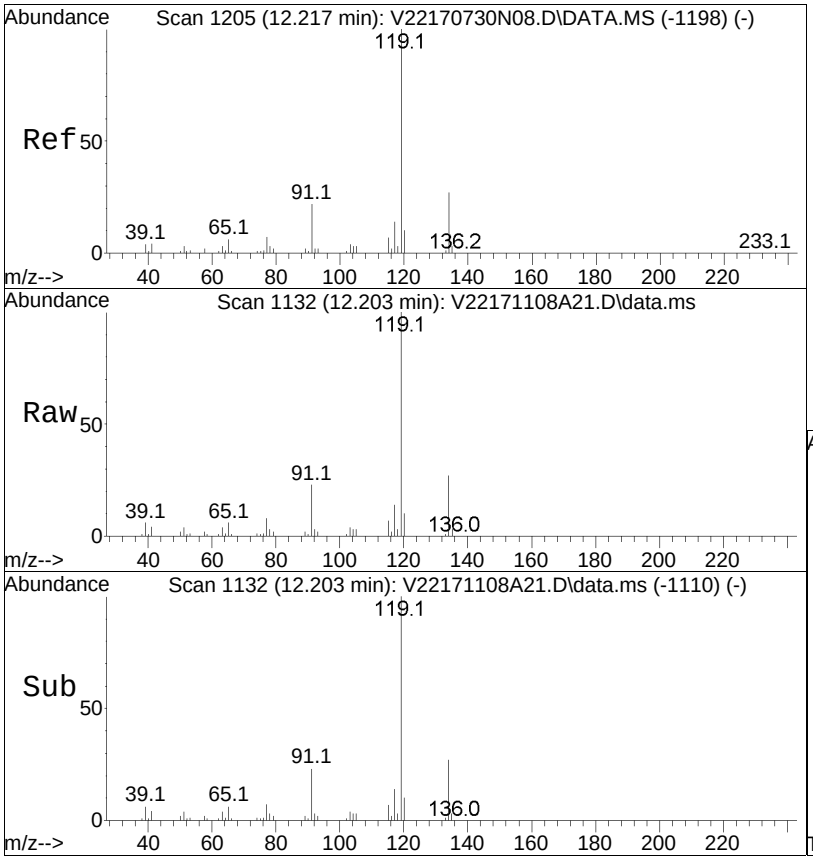


#102
sec-Butylbenzene
Concen: 11.21 ug/L
RT: 12.048 min Scan# 1114
Delta R.T. -0.014 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:105 Resp: 351498

Ion	Ratio	Lower	Upper
105	100		
134	20.4	13.9	28.9

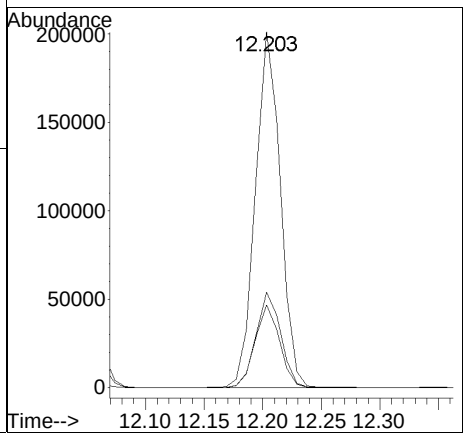


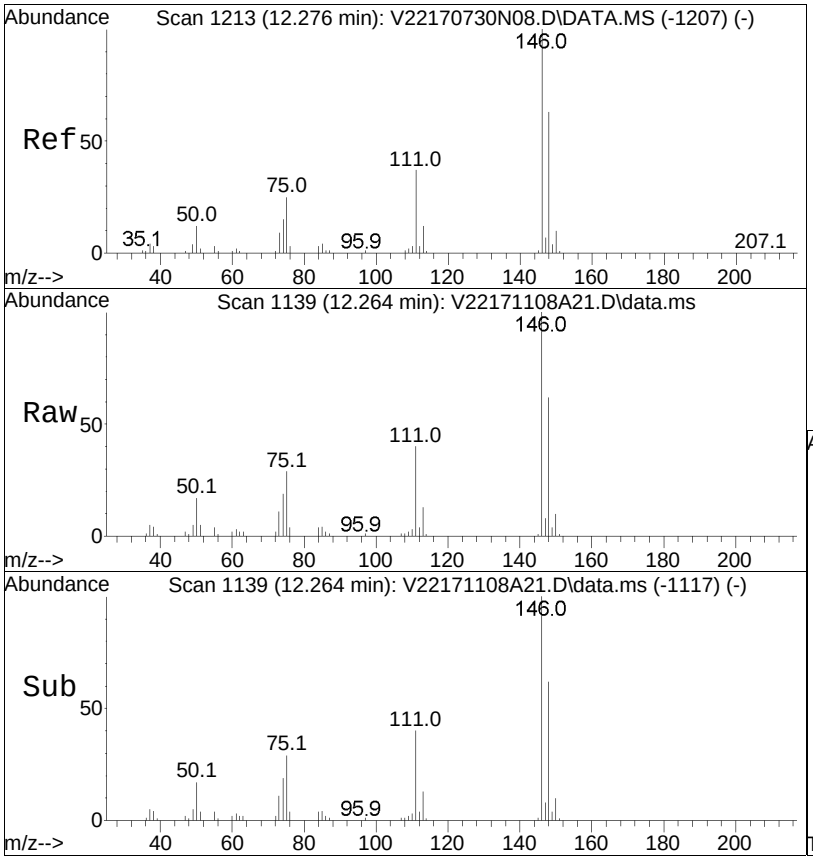


#103
p-Isopropyltoluene
Concen: 10.92 ug/L
RT: 12.203 min Scan# 1132
Delta R.T. -0.014 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:119 Resp: 297106

Ion	Ratio	Lower	Upper
119	100		
134	26.4	17.7	36.7
91	22.8	14.1	29.3

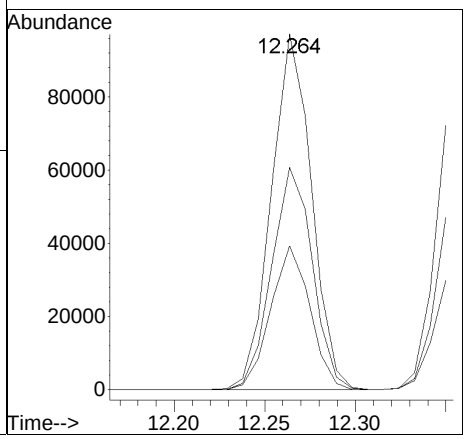


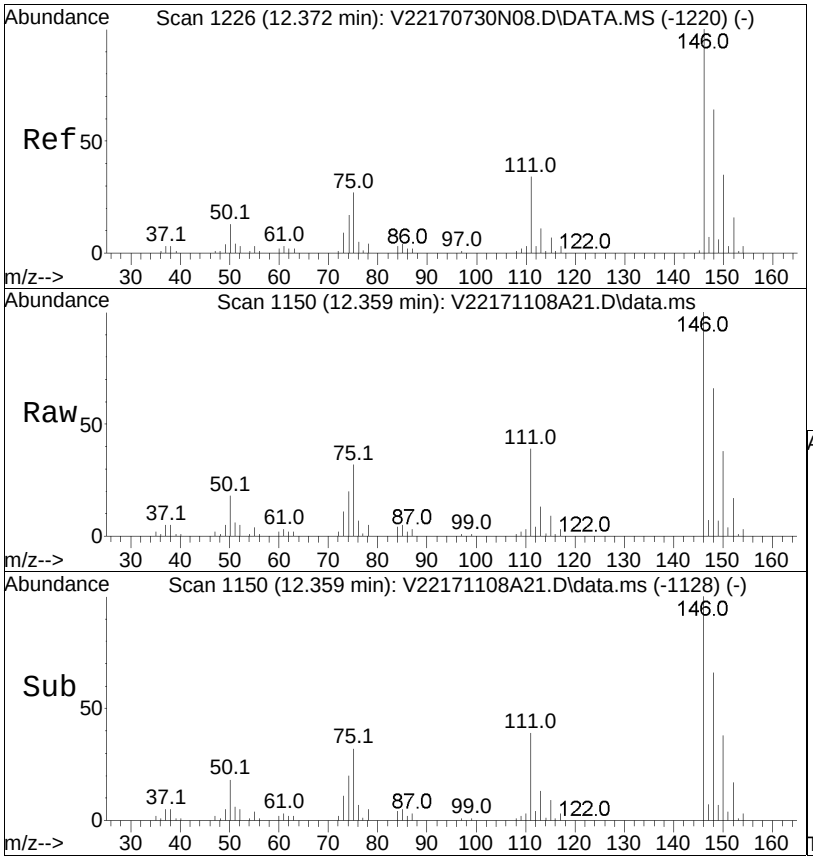


#104
1,3-Dichlorobenzene
Concen: 10.35 ug/L
RT: 12.264 min Scan# 1139
Delta R.T. -0.012 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:146 Resp: 149492

Ion	Ratio	Lower	Upper
146	100		
111	39.6	24.0	49.8
148	63.3	41.8	86.8

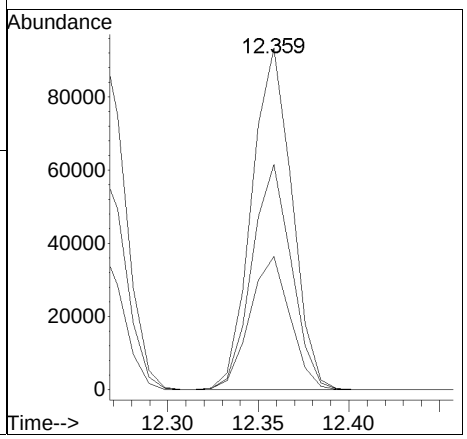


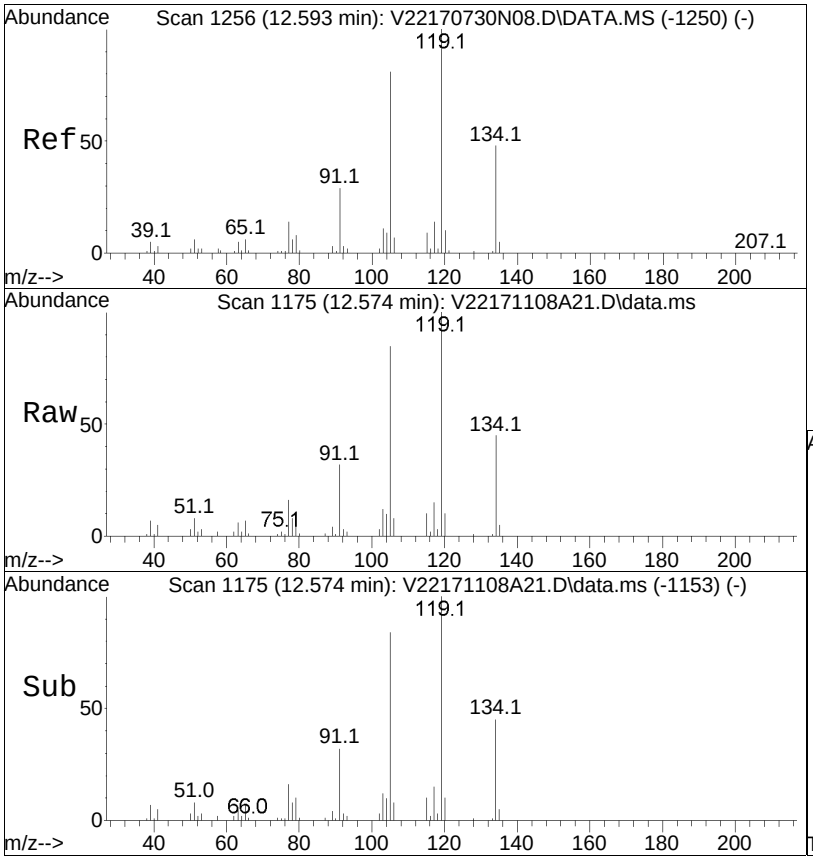


#105
1,4-Dichlorobenzene
Concen: 10.09 ug/L
RT: 12.359 min Scan# 1150
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:146 Resp: 144009

Ion	Ratio	Lower	Upper
146	100		
111	39.1	28.9	43.3
148	64.9	51.4	77.2

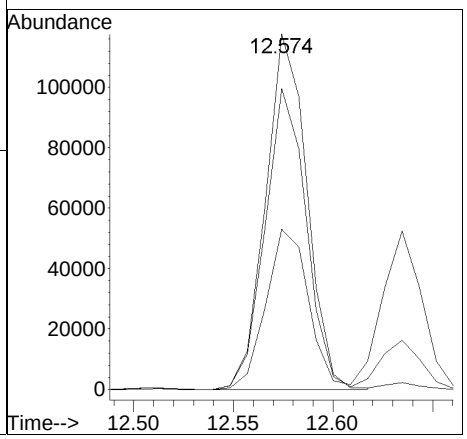


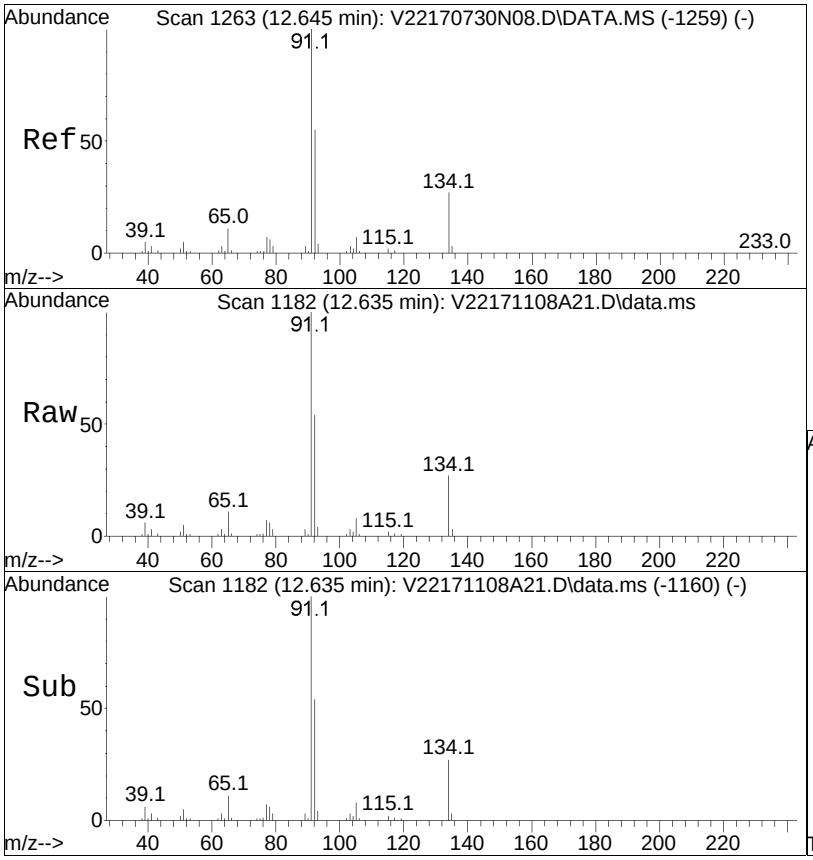


#106
p-Diethylbenzene
Concen: 10.75 ug/L
RT: 12.574 min Scan# 1175
Delta R.T. -0.012 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:119 Resp: 169576

Ion	Ratio	Lower	Upper
119	100		
105	84.3	53.4	110.8
134	46.8	30.9	64.1

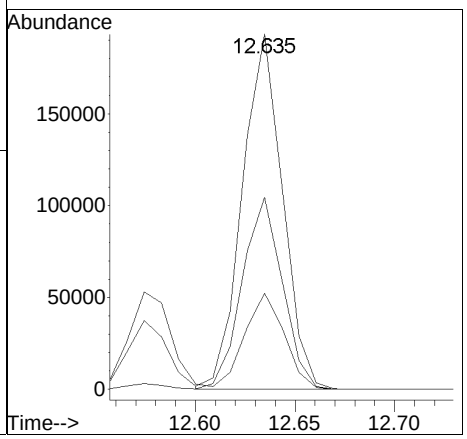


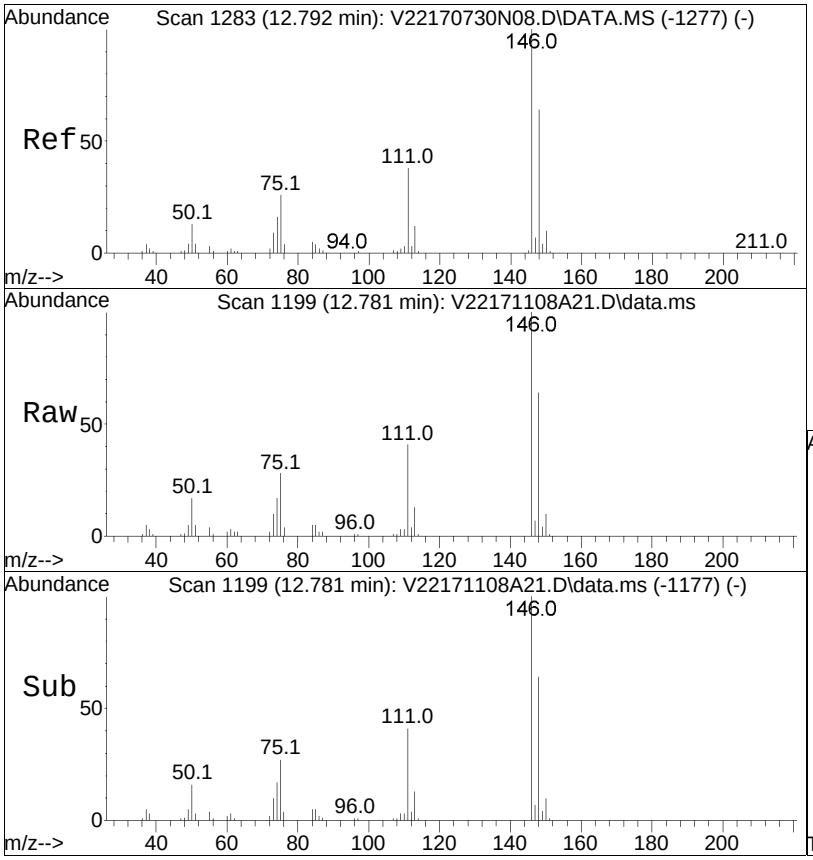


#107
n-Butylbenzene
Concen: 11.45 ug/L
RT: 12.635 min Scan# 1182
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion: 91 Resp: 272091

Ion	Ratio	Lower	Upper
91	100		
92	54.1	44.6	66.8
134	26.6	22.9	34.3

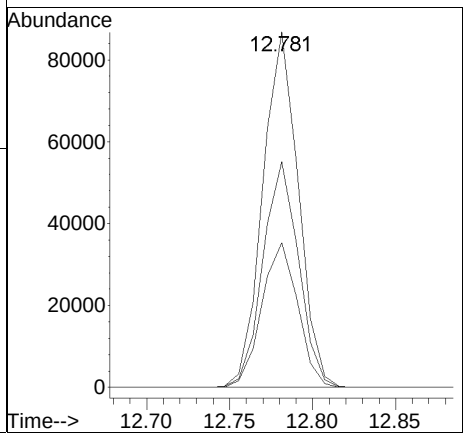


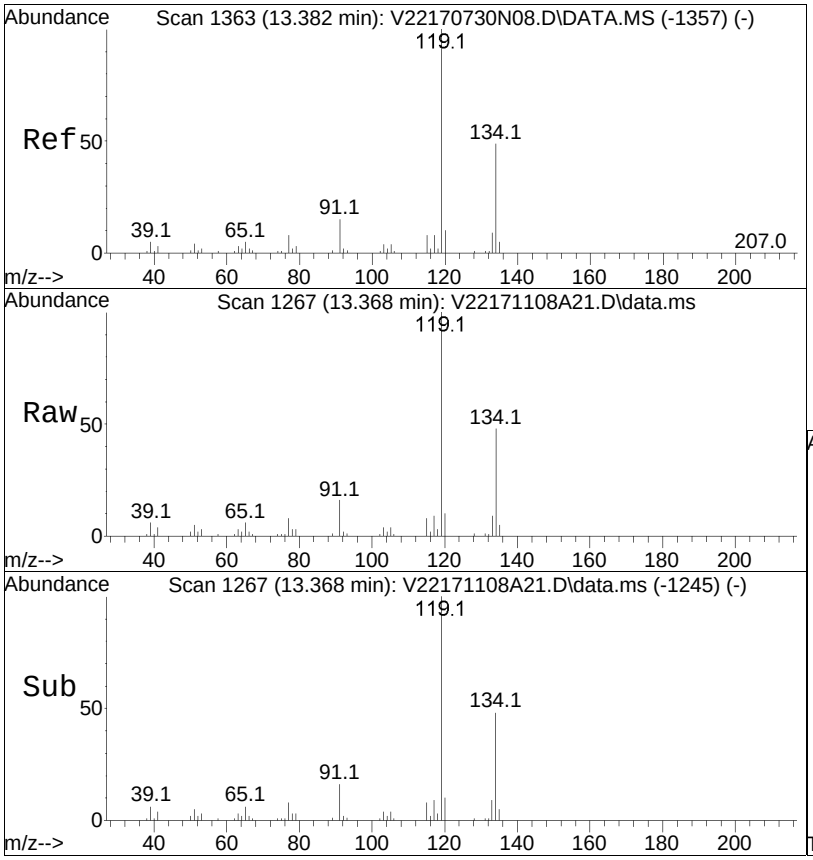


#108
1,2-Dichlorobenzene
Concen: 9.97 ug/L
RT: 12.781 min Scan# 1199
Delta R.T. -0.011 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:146 Resp: 129434

Ion	Ratio	Lower	Upper
146	100		
111	41.2	24.8	51.6
148	63.6	42.2	87.6

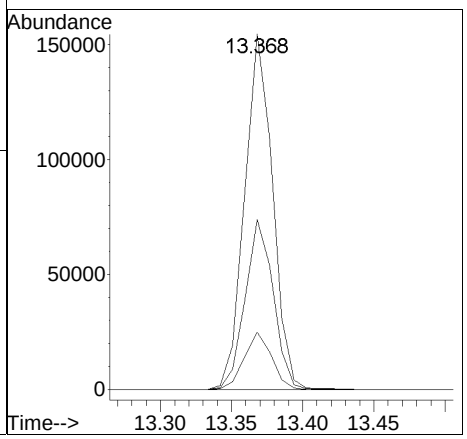


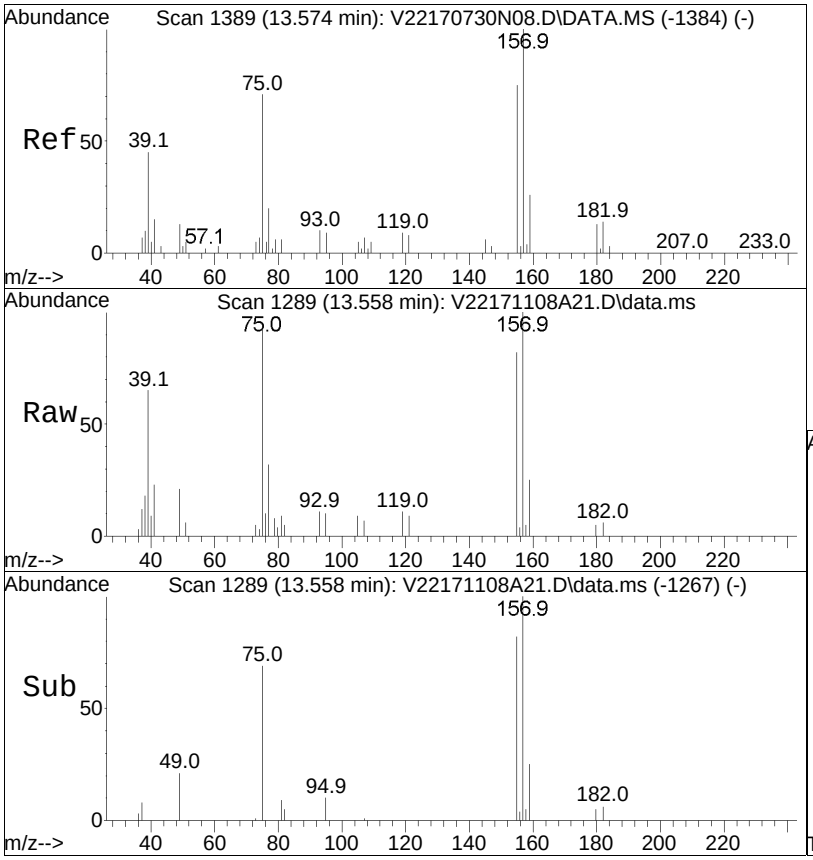


#109
1,2,4,5-Tetramethylbenzene
Concen: 9.07 ug/L
RT: 13.368 min Scan# 1267
Delta R.T. -0.014 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:119 Resp: 211520

Ion	Ratio	Lower	Upper
119	100		
134	48.0	31.9	66.1
91	15.7	9.8	20.3

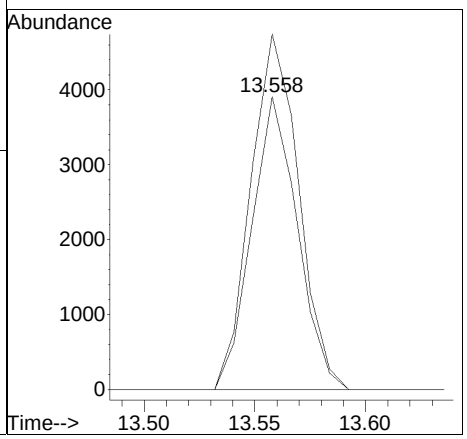


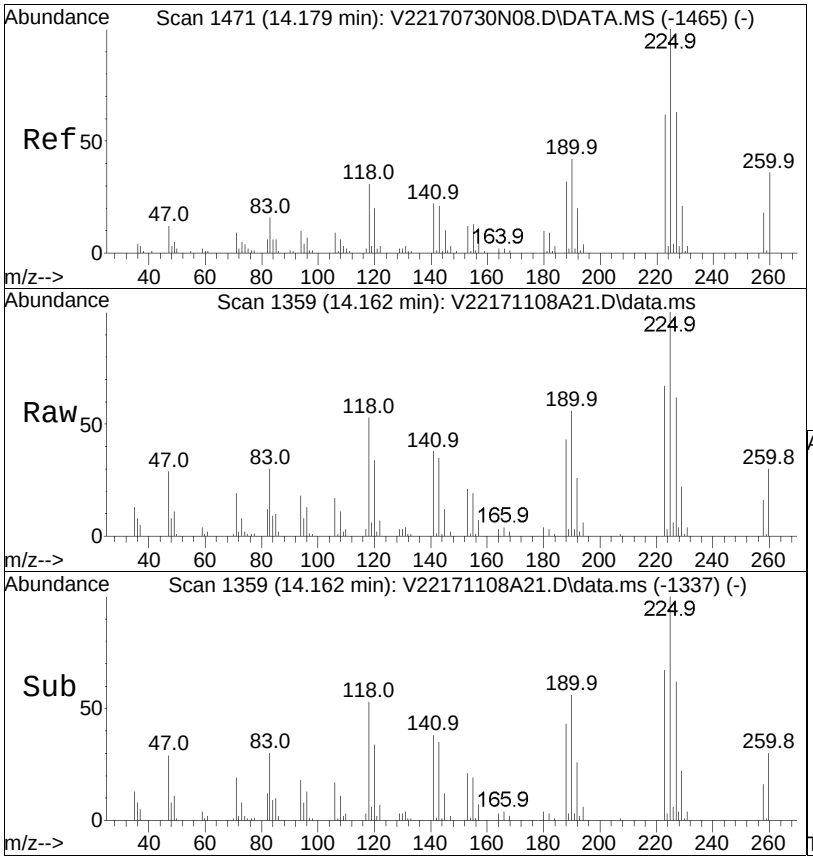


#110
1,2-Dibromo-3-chloropropane
Concen: 7.43 ug/L
RT: 13.558 min Scan# 1289
Delta R.T. -0.009 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:155 Resp: 5616

Ion	Ratio	Lower	Upper
155	100		
157	127.0	102.3	153.5

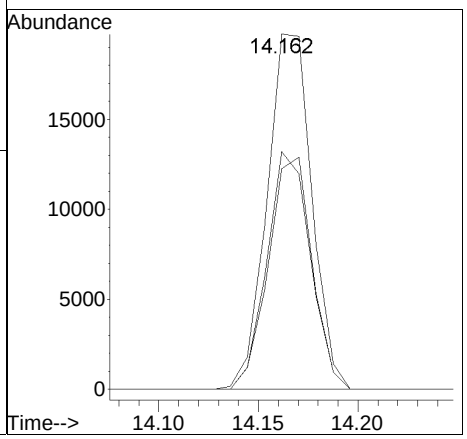


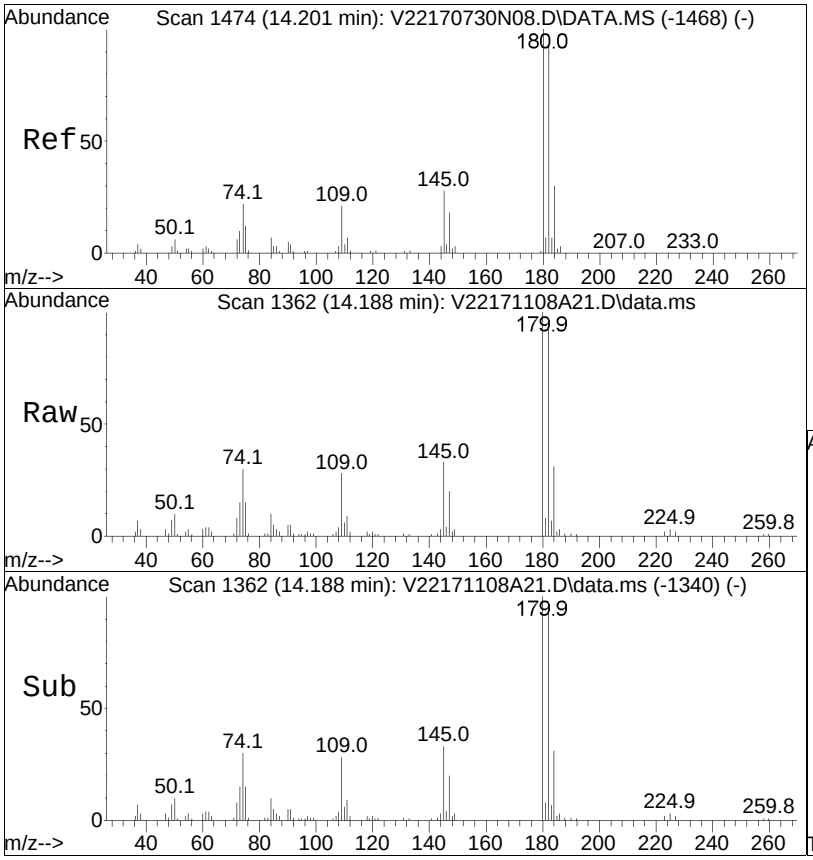


#112
Hexachlorobutadiene
Concen: 6.36 ug/L
RT: 14.162 min Scan# 1359
Delta R.T. -0.010 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:225 Resp: 30922

Ion	Ratio	Lower	Upper
225	100		
223	64.8	49.8	74.8
227	63.9	52.2	78.4

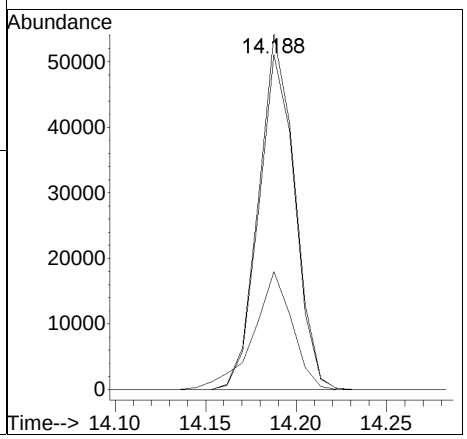


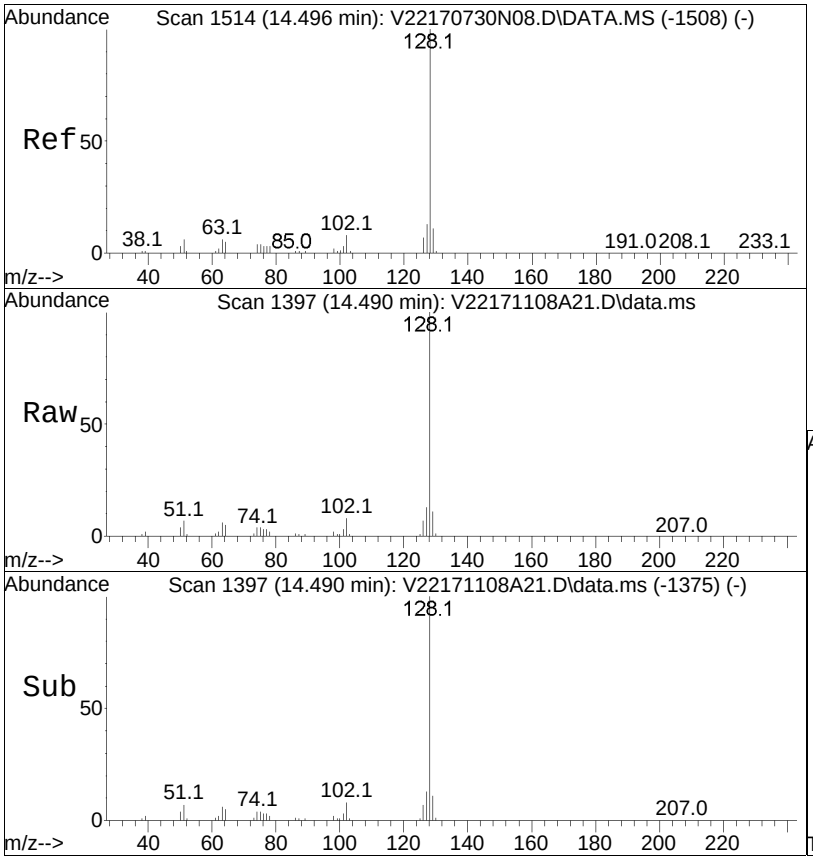


#113
1,2,4-Trichlorobenzene
Concen: 7.89 ug/L
RT: 14.188 min Scan# 1362
Delta R.T. -0.013 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:180 Resp: 75410

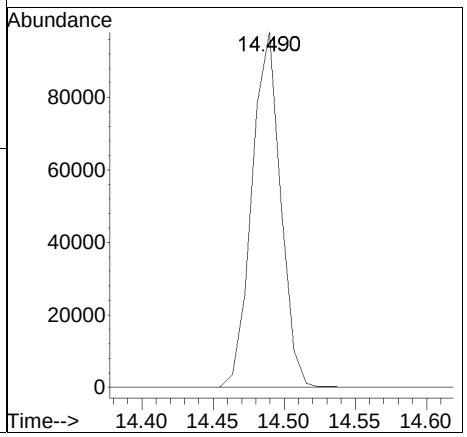
Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.6	114.8
145	35.5	25.5	38.3

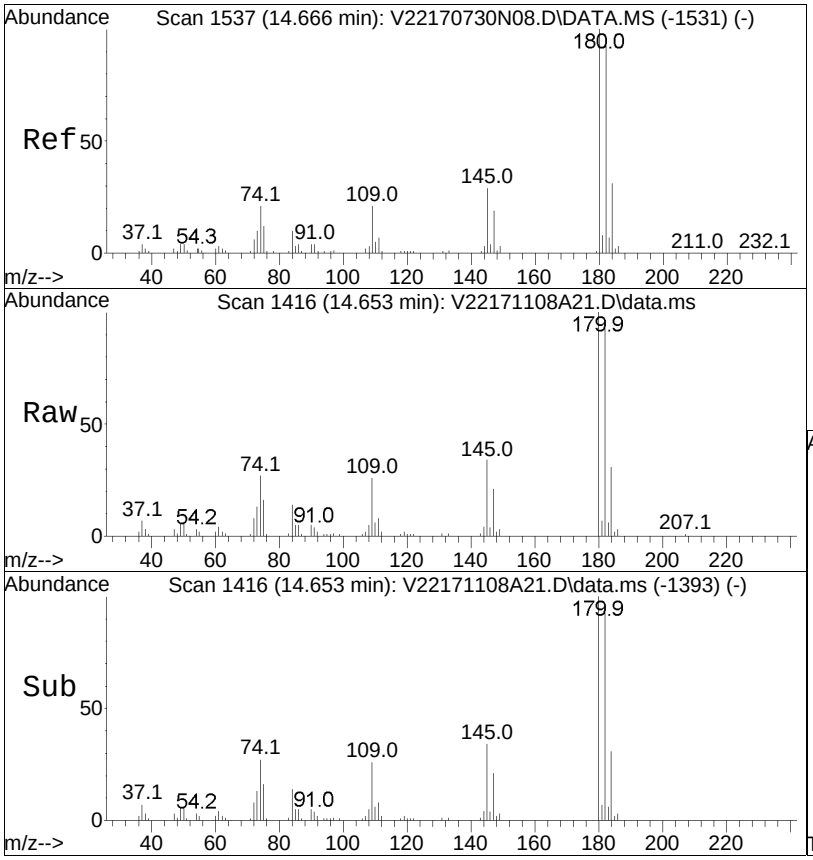




#114
Naphthalene
Concen: 8.15 ug/L
RT: 14.490 min Scan# 1397
Delta R.T. -0.006 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:128 Resp: 137615

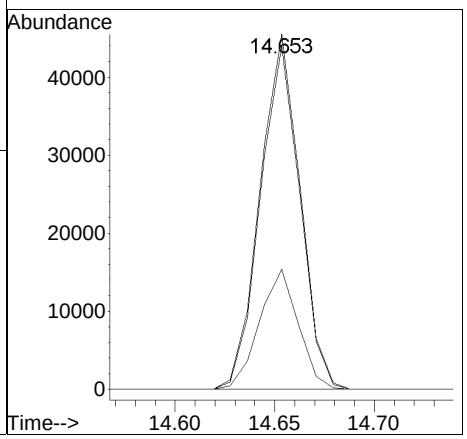




#115
1,2,3-Trichlorobenzene
Concen: 7.40 ug/L
RT: 14.653 min Scan# 1416
Delta R.T. -0.006 min
Lab File: V22171108A21.D
Acq: 08 Nov 2017 04:51 pm

Tgt Ion:180 Resp: 63654

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.0	114.0
145	32.8	23.8	35.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2017\1Q	Method	: V122_170804A_8260.m
Data File	: V22171108A21.D	Operator	: VOA122:MKS
Date Inj'd	: 11/8/2017 4:51 pm	Instrument	: VOA122
Sample	: WG1060967-7,31,10,10,,a2	Quant Date	: 11/8/2017 5:28 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)

Nov 09 2017, 08:59 am

Work Group: WG1060957 for Department: 31 GC/MS - Volatiles

Created: 08-NOV-17 Due: Operator: MKS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1739725-04	MW-10	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-05	MW-9	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-06	MW-9D	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-07	MW-2	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-08	MW-4	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-09	MW-5	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-10	MW-3	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-11	MW-11	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-12	DUPE	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1739725-13	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
L1740026-01	MW-15	S	NYTCL-8260	WATER	DONE	U	1115	1109	S0	Vial-B
L1740026-02	MW-16	S	NYTCL-8260	WATER	DONE	U	1114	1109	S0	Vial-B
WG1060957-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1060957-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1060957-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1060957-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1060957-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1060957-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1060957-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1060957-4	WG1060957-3
WG1060957-6	L1740026-01
WG1060957-7	L1740026-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 09 2017, 08:59 am

Work Group: WG1060967 for Department: 31 GC/MS - Volatiles

Created: 08-NOV-17 Due: Operator: KD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1739725-01	MW-7	S	NYTCL-8260	WATER	DONE	U	1113	1109	S0	Vial-B
L1739725-02	MW-8	S	NYTCL-8260	WATER	DONE	U	1113	1109	S0	Vial-B
L1739725-03	MW-8D	S	NYTCL-8260	WATER	DONE	U	1113	1109	S0	Vial-B
L1740407-01	RMW-2	S	NYTCL-8260	WATER	DONE	U	1117	1109	S0	Vial-B
L1740407-02	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1117	1109	S0	Vial-B
L1740407-03	FB-110317	S	NYTCL-8260	WATER	DONE	U	1117	1109	S0	Vial-B
WG1060967-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1060967-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1060967-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1060967-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1060967-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1060967-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1060967-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1060967-4	WG1060967-3
WG1060967-6	L1739725-01
WG1060967-7	L1739725-01

Inst: VOA122 BFB: 6213 Method GC: 8260_WATER
Initials: NL IS/SS: 6230 Autosampler: 8260WATER
Date: **08/04/17** ICAL: V6266, V6264 Concentrator: 8260
Run: **A** ICV: V6233, V6257, V6255, V6231, V6256, V6232 QC:_____ Seq:_____

Vial	Data File	Sample	obs
1	V22170804ABF1	BFB	
1	V22170804A01	BLK	
2	V22170804A02	BLK	
3	V22170804A03	ISTDL11	
4	V22170804A04	ISTDL1	
5	V22170804A05	ISTDL1	
6	V22170804A06	ISTDL2	
7	V22170804A07	ISTDL2	
8	V22170804A08	ISTDL3	
9	V22170804A09	ISTDL4	
10	V22170804A10	ISTDL6	
11	V22170804A11	ISTDL8	
12	V22170804A12	ISTDL10	
13	V22170804A13	BLK	
14	V22170804A14	BLK	
15	V22170804A15	BLK	
16	V22170804A16	BLK	
17	V22170804A17	BLK	
18	V22170804A18	CSTDL3	
19	V22170804A19	CSTDL3	
20	V22170804A20	BLK	

170928A **2017**

Inst: VOA101 BFB: V6275 Method GC: 8260
Initials: PK IS/SS: V6314 Autosampler: 8260 liquid IS2
Date: **09/28/17** ICAL: V6339, V6345, V6258 Concentrator: 8260water
Run: **A** ICV: V6316, V6346, V6317, V6347, V6315, V6348, V6258 QC: _____

Vial	Data File	Sample
1	V01170928BF1	BFB TUNE
1	V01170928A01	BLK
2	V01170928A02	BLK
3	V01170928A03	I8260 L11
4	V01170928A04	I8260 L1
5	V01170928A05	I8260 L1
6	V01170928A06	I8260 L2
7	V01170928A07	I8260 L2
8	V01170928A08	I8260 L3
9	V01170928A09	I8260 L4
10	V01170928A10	I8260 L6
11	V01170928A11	I8260 L8
12	V01170928A12	I8260 L10
13	V01170928A13	BLK
14	V01170928A14	BLK
15	V01170928A15	BLK
16	V01170928A16	BLK
17	V01170928A17	BLK
18	V01170928A18	C8260 L3
19	V01170928A19	C8260 L3
20	V01170928A20	BLK

VOA101

Seq: _____

obs

Inst: VOA101 BFB: V6372 Method GC: 8260
Initials: PD IS/SS: V6383 Autosampler: 8260 liquid IS2
Date: **11/08/17** ICAL: V6339, V6345, V6258 Concentrator: 8260water
Run: **A** ICV: V6316, V6346, V6317, V6347, V6315, V6348, V6258 QC:_____ Seq:_____

Vial	Data File	Sample		obs
1	V01171108ABF1	BFB TUNE 07:50		
1	V01171108A01	8260 CCAL LCS		
2	V01171108A02	8260 CCAL LCSD		
3	V01171108A03	BLK		
4	V01171108A04	METHOD BLK		
5	V01171108A05	I1739920-06,31,10,10,,a	NJ/15	pH<2
6	V01171108A06	I1739725-04,31,10,10,,a	NYTCL	pH<2
7	V01171108A07	I1739725-05D,31,5,10,,a	NYTCL	pH<2
8	V01171108A08	I1740702-01D,31,0.05,10,,a2	8260MM	pH<2
9	V01171108A09	I1739725-06,31,10,10,,a	NYTCL	pH<2
10	V01171108A10	I1740702-01D,31,1,10,,a2	8260MM	pH<2
11	V01171108A11	I1739725-07,31,10,10,,a	NYTCL	pH<2
12	V01171108A12	I1739725-08,31,10,10,,a	NYTCL	pH<2
13	V01171108A13	I1739725-09,31,10,10,,a	NYTCL	pH<2
14	V01171108A14	I1739725-10,31,10,10,,a	NYTCL	pH<2
15	V01171108A15	I1739725-11,31,10,10,,a	NYTCL	pH<2
16	V01171108A16	I1739725-12,31,10,10,,a	NYTCL	pH<2
17	V01171108A17	I1739725-13,31,10,10,,a	NYTCL	pH<2
18	V01171108A18	I1740026-02D,31,5,10,,a	NYTCL	pH<2
19	V01171108A19	I1740026-01,31,10,10,,a	NYTCL	pH<2
20	V01171108A20	I1740026-01MS,31,10,10,,a1	NYTCL	pH<2
21	V01171108A21	I1740026-01MSD,31,10,10,,a2	NYTCL	pH<2

Inst: VOA122 BFB: V6372 Method GC: 8260_WATER
Initials: PD IS/SS: V6383 Autosampler: 8260WATER
Date: **11/08/17** ICAL: V6266, V6264 Concentrator: 8260
Run: **A** ICV: V6233, V6257, V6255, V6231, V6256, V6232 QC:_____ Seq:_____

Vial	Data File	Sample		obs
1	V22171108ABF1	BFB TUNE 07:21		
1	V22171108A01	8260 CCAL		
2	V22171108A02	8260 CCAL LCS		
3	V22171108A03	8260 CCAL LCSD		
4	V22171108A04	BLK		
5	V22171108A05	METHOD BLK		
6	V22171108A06	I1740711-01,31,10,10,,a2	8260MM	pH<2
7	V22171108A07	I1739863-07,31,10,10,,a	NJ/15	pH<2
8	V22171108A08	I1739863-01,31,10,10,,a	NJ/15	pH<2
9	V22171108A09	I1739863-02,31,10,10,,a	NJ/15	pH<2
10	V22171108A10	I1739863-03,31,10,10,,a	NJ/15	pH<2
11	V22171108A11	I1739863-04D,31,1,10,,a	NJ/15	pH<2
12	V22171108A12	I1739863-05D,31,0.05,10,,a	NJ/15	pH<2
13	V22171108A13	I1739863-06D,31,0.2,10,,a	NJ/15	pH<2
14	V22171108A14	I1740407-01,31,10,10,,a	NYTCL	pH<2
15	V22171108A15	I1740407-02,31,10,10,,a	NYTCL	pH<2
16	V22171108A16	I1740407-03,31,10,10,,a	NYTCL	pH<2
17	V22171108A17	I1739725-02,31,10,10,,a	NYTCL	pH<2
18	V22171108A18	I1739725-03,31,10,10,,a	NYTCL	pH<2
19	V22171108A19	I1739725-01,31,10,10,,a	NYTCL	pH<2
20	V22171108A20	I1739725-01MS,31,10,10,,a1	NYTCL	pH<2
21	V22171108A21	I1739725-01MSD,31,10,10,,a2	NYTCL	pH<2

ANALYTICAL REPORT

Lab Number:	L1713505
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	John Eichler
Phone:	(631) 589-6353
Project Name:	PENETREX
Project Number:	PEN1101
Report Date:	05/03/17

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1713505-01	IA001	AIR	1 SHORE RD, GLENWOOD LANDING, NY	04/27/17 09:55	04/27/17
L1713505-02	IA002	AIR	1 SHORE RD, GLENWOOD LANDING, NY	04/27/17 10:00	04/27/17
L1713505-03	IA003	AIR	1 SHORE RD, GLENWOOD LANDING, NY	04/27/17 09:50	04/27/17
L1713505-04	IA004	AIR	1 SHORE RD, GLENWOOD LANDING, NY	04/27/17 09:52	04/27/17
L1713505-05	IA005	AIR	1 SHORE RD, GLENWOOD LANDING, NY	04/27/17 09:08	04/27/17
L1713505-06	OA001	AIR	1 SHORE RD, GLENWOOD LANDING, NY	04/27/17 09:30	04/27/17

Project Name: PENETREX **Lab Number:** L1713505
Project Number: PEN1101 **Report Date:** 05/03/17

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: PENETREX **Lab Number:** L1713505
Project Number: PEN1101 **Report Date:** 05/03/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 25, 2017. The canister certification results are provided as an addendum.

Sample L1713505-01 and -05 The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

Sample L1713505-06 results for Acetone should be considered estimated due to co-elution with a non-target peak.

The WG999559-5 Laboratory Duplicate RPD, performed on L1713505-03, is above the acceptance criteria for Dichlorodifluoromethane (39%); however, the sample and duplicate results are less than five times the reporting limit therefore no further action is 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: Christopher J. Anderson

Title: Technical Director/Representative Date: 05/03/17

AIR

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-01
Client ID: IA001
Sample Location: 1 SHORE RD, GLENWOOD LANDING,
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 17:26
Analyst: MB

Date Collected: 04/27/17 09:55
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.278	0.200	--	1.37	0.989	--		1
Chloromethane	0.545	0.200	--	1.13	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.064	0.020	--	0.142	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	16.4	5.00	--	30.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.211	0.050	--	1.19	0.281	--		1
Isopropanol	3.83	0.500	--	9.41	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	1.90	0.500	--	6.60	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.063	0.050	--	0.483	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.546	0.500	--	1.61	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	2.91	0.500	--	10.5	1.80	--		1
Chloroform	0.056	0.020	--	0.273	0.098	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-01
Client ID: IA001
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:55
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	1.99	0.200	--	7.01	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.757	0.100	--	2.42	0.319	--		1
Carbon tetrachloride	0.070	0.020	--	0.440	0.126	--		1
Cyclohexane	0.516	0.200	--	1.78	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	0.921	0.200	--	4.30	0.934	--		1
Heptane	0.994	0.200	--	4.07	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	3.89	0.050	--	14.7	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.326	0.020	--	2.21	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.303	0.020	--	1.32	0.087	--		1
p/m-Xylene	1.13	0.040	--	4.91	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.048	0.020	--	0.204	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-01
Client ID: IA001
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:55
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
o-Xylene	0.412	0.020	--	1.79	0.087	--		1
4-Ethyltoluene	0.119	0.020	--	0.585	0.098	--		1
1,3,5-Trimethybenzene	0.143	0.020	--	0.703	0.098	--		1
1,2,4-Trimethylbenzene	0.466	0.020	--	2.29	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-02
Client ID: IA002
Sample Location: 1 SHORE RD, GLENWOOD LANDING,
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 17:59
Analyst: MB

Date Collected: 04/27/17 10:00
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.326	0.200	--	1.61	0.989	--		1
Chloromethane	0.599	0.200	--	1.24	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.055	0.020	--	0.122	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	5.92	5.00	--	11.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.1	1.00	--	43.0	2.38	--		1
Trichlorofluoromethane	0.225	0.050	--	1.26	0.281	--		1
Isopropanol	1.65	0.500	--	4.06	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	1.29	0.500	--	4.48	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.068	0.050	--	0.521	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.854	0.500	--	2.52	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.046	0.020	--	0.225	0.098	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-02
Client ID: IA002
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 10:00
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrahydrofuran	0.691	0.500	--	2.04	1.47	--		1
1,2-Dichloroethane	0.020	0.020	--	0.081	0.081	--		1
n-Hexane	0.474	0.200	--	1.67	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.358	0.100	--	1.14	0.319	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	0.230	0.200	--	1.07	0.934	--		1
Heptane	0.223	0.200	--	0.914	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	0.058	0.020	--	0.316	0.109	--		1
Toluene	1.25	0.050	--	4.71	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.088	0.020	--	0.597	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.207	0.020	--	0.899	0.087	--		1
p/m-Xylene	1.49	0.040	--	6.47	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.042	0.020	--	0.179	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-02
Client ID: IA002
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 10:00
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
o-Xylene	0.710	0.020	--	3.08	0.087	--		1
4-Ethyltoluene	0.794	0.020	--	3.90	0.098	--		1
1,3,5-Trimethybenzene	1.84	0.020	--	9.05	0.098	--		1
1,2,4-Trimethylbenzene	4.19	0.020	--	20.6	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	91		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-03
Client ID: IA003
Sample Location: 1 SHORE RD, GLENWOOD LANDING,
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 18:32
Analyst: MB

Date Collected: 04/27/17 09:50
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.469	0.200	--	2.32	0.989	--		1
Chloromethane	0.552	0.200	--	1.14	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.052	0.020	--	0.115	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.0	1.00	--	38.0	2.38	--		1
Trichlorofluoromethane	0.212	0.050	--	1.19	0.281	--		1
Isopropanol	1.16	0.500	--	2.85	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	1.01	0.500	--	3.51	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.064	0.050	--	0.491	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.844	0.500	--	2.49	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.043	0.020	--	0.210	0.098	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-03
Client ID: IA003
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:50
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrahydrofuran	0.870	0.500	--	2.57	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.437	0.200	--	1.54	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.328	0.100	--	1.05	0.319	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.062	0.020	--	0.333	0.107	--		1
2,2,4-Trimethylpentane	0.216	0.200	--	1.01	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	0.047	0.020	--	0.256	0.109	--		1
Toluene	1.29	0.050	--	4.86	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.071	0.020	--	0.481	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.187	0.020	--	0.812	0.087	--		1
p/m-Xylene	1.35	0.040	--	5.86	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.040	0.020	--	0.170	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-03
Client ID: IA003
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:50
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
o-Xylene	0.656	0.020	--	2.85	0.087	--		1
4-Ethyltoluene	0.772	0.020	--	3.80	0.098	--		1
1,3,5-Trimethybenzene	1.83	0.020	--	9.00	0.098	--		1
1,2,4-Trimethylbenzene	4.25	0.020	--	20.9	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-04
Client ID: IA004
Sample Location: 1 SHORE RD, GLENWOOD LANDING,
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 19:38
Analyst: MB

Date Collected: 04/27/17 09:52
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.329	0.200	--	1.63	0.989	--		1
Chloromethane	0.560	0.200	--	1.16	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.068	0.020	--	0.150	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.208	0.050	--	1.17	0.281	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.064	0.050	--	0.491	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.028	0.020	--	0.137	0.098	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-04
Client ID: IA004
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:52
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.308	0.200	--	1.09	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.296	0.100	--	0.946	0.319	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	0.208	0.200	--	0.972	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.669	0.050	--	2.52	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.080	0.020	--	0.542	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.094	0.020	--	0.408	0.087	--		1
p/m-Xylene	0.349	0.040	--	1.52	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.042	0.020	--	0.179	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-04
Client ID: IA004
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:52
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
o-Xylene	0.135	0.020	--	0.586	0.087	--		1
4-Ethyltoluene	0.054	0.020	--	0.265	0.098	--		1
1,3,5-Trimethybenzene	0.099	0.020	--	0.487	0.098	--		1
1,2,4-Trimethylbenzene	0.251	0.020	--	1.23	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-05
Client ID: IA005
Sample Location: 1 SHORE RD, GLENWOOD LANDING,
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 20:11
Analyst: MB

Date Collected: 04/27/17 09:08
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.279	0.200	--	1.38	0.989	--		1
Chloromethane	0.522	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.069	0.020	--	0.153	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.229	0.050	--	1.29	0.281	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.063	0.050	--	0.483	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.031	0.020	--	0.151	0.098	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-05
Client ID: IA005
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:08
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.793	0.200	--	2.79	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.527	0.100	--	1.68	0.319	--		1
Carbon tetrachloride	0.070	0.020	--	0.440	0.126	--		1
Cyclohexane	0.271	0.200	--	0.933	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.123	0.020	--	0.661	0.107	--		1
2,2,4-Trimethylpentane	0.670	0.200	--	3.13	0.934	--		1
Heptane	0.721	0.200	--	2.95	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	2.27	0.050	--	8.55	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	3.04	0.020	--	20.6	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.402	0.020	--	1.75	0.087	--		1
p/m-Xylene	1.64	0.040	--	7.12	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.042	0.020	--	0.179	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-05
Client ID: IA005
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:08
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
o-Xylene	0.790	0.020	--	3.43	0.087	--		1
4-Ethyltoluene	0.323	0.020	--	1.59	0.098	--		1
1,3,5-Trimethybenzene	0.347	0.020	--	1.71	0.098	--		1
1,2,4-Trimethylbenzene	1.36	0.020	--	6.69	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-06
Client ID: OA001
Sample Location: 1 SHORE RD, GLENWOOD LANDING,
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 16:53
Analyst: MB

Date Collected: 04/27/17 09:30
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.320	0.200	--	1.58	0.989	--		1
Chloromethane	0.545	0.200	--	1.13	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.053	0.020	--	0.117	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.21	1.00	--	5.25	2.38	--		1
Trichlorofluoromethane	0.216	0.050	--	1.21	0.281	--		1
Isopropanol	0.597	0.500	--	1.47	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.063	0.050	--	0.483	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.024	0.020	--	0.117	0.098	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-06
Client ID: OA001
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:30
Date Received: 04/27/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.216	0.200	--	0.761	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.248	0.100	--	0.792	0.319	--		1
Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.540	0.050	--	2.03	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.076	0.020	--	0.515	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.086	0.020	--	0.374	0.087	--		1
p/m-Xylene	0.288	0.040	--	1.25	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.027	0.020	--	0.115	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

SAMPLE RESULTS

Lab ID: L1713505-06
Client ID: OA001
Sample Location: 1 SHORE RD, GLENWOOD LANDING,

Date Collected: 04/27/17 09:30
Date Received: 04/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
o-Xylene	0.105	0.020	--	0.456	0.087	--		1
4-Ethyltoluene	0.025	0.020	--	0.123	0.098	--		1
1,3,5-Trimethybenzene	0.023	0.020	--	0.113	0.098	--		1
1,2,4-Trimethylbenzene	0.082	0.020	--	0.403	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 13:01

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG999559-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 13:01

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG999559-4								
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 05/02/17 13:01

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG999559-4								
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG999559-3								
Propylene	110		-		70-130	-		25
Dichlorodifluoromethane	98		-		70-130	-		25
Chloromethane	101		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	100		-		70-130	-		25
Vinyl chloride	101		-		70-130	-		25
1,3-Butadiene	108		-		70-130	-		25
Bromomethane	98		-		70-130	-		25
Chloroethane	100		-		70-130	-		25
Ethyl Alcohol	98		-		70-130	-		25
Vinyl bromide	94		-		70-130	-		25
Acetone	113		-		70-130	-		25
Trichlorofluoromethane	102		-		70-130	-		25
iso-Propyl Alcohol	102		-		70-130	-		25
Acrylonitrile	95		-		70-130	-		25
1,1-Dichloroethene	100		-		70-130	-		25
tert-Butyl Alcohol[1]	86		-		70-130	-		25
Methylene chloride	104		-		70-130	-		25
3-Chloropropene	111		-		70-130	-		25
Carbon disulfide	91		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		-		70-130	-		25
Halothane	106		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG999559-3								
trans-1,2-Dichloroethene	103		-		70-130	-		25
1,1-Dichloroethane	106		-		70-130	-		25
Methyl tert butyl ether	103		-		70-130	-		25
Vinyl acetate	118		-		70-130	-		25
2-Butanone	99		-		70-130	-		25
cis-1,2-Dichloroethene	97		-		70-130	-		25
Ethyl Acetate	104		-		70-130	-		25
Chloroform	98		-		70-130	-		25
Tetrahydrofuran	95		-		70-130	-		25
1,2-Dichloroethane	97		-		70-130	-		25
n-Hexane	102		-		70-130	-		25
1,1,1-Trichloroethane	103		-		70-130	-		25
Benzene	102		-		70-130	-		25
Carbon tetrachloride	102		-		70-130	-		25
Cyclohexane	103		-		70-130	-		25
Dibromomethane[1]	85		-		70-130	-		25
1,2-Dichloropropane	104		-		70-130	-		25
Bromodichloromethane	103		-		70-130	-		25
1,4-Dioxane	105		-		70-130	-		25
Trichloroethene	97		-		70-130	-		25
2,2,4-Trimethylpentane	105		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: PENETREX

Project Number: PEN1101

Lab Number: L1713505

Report Date: 05/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG999559-3								
cis-1,3-Dichloropropene	111		-		70-130	-		25
4-Methyl-2-pentanone	113		-		70-130	-		25
trans-1,3-Dichloropropene	95		-		70-130	-		25
1,1,2-Trichloroethane	105		-		70-130	-		25
Toluene	96		-		70-130	-		25
2-Hexanone	108		-		70-130	-		25
Dibromochloromethane	98		-		70-130	-		25
1,2-Dibromoethane	99		-		70-130	-		25
Tetrachloroethene	94		-		70-130	-		25
1,1,1,2-Tetrachloroethane	86		-		70-130	-		25
Chlorobenzene	97		-		70-130	-		25
Ethylbenzene	96		-		70-130	-		25
p/m-Xylene	97		-		70-130	-		25
Bromoform	91		-		70-130	-		25
Styrene	99		-		70-130	-		25
1,1,2,2-Tetrachloroethane	101		-		70-130	-		25
o-Xylene	96		-		70-130	-		25
1,2,3-Trichloropropane[1]	92		-		70-130	-		25
Isopropylbenzene	92		-		70-130	-		25
Bromobenzene[1]	92		-		70-130	-		25
4-Ethyltoluene	96		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG999559-3								
1,3,5-Trimethylbenzene	95		-		70-130	-		25
1,2,4-Trimethylbenzene	100		-		70-130	-		25
Benzyl chloride	97		-		70-130	-		25
1,3-Dichlorobenzene	100		-		70-130	-		25
1,4-Dichlorobenzene	98		-		70-130	-		25
sec-Butylbenzene	91		-		70-130	-		25
p-Isopropyltoluene	85		-		70-130	-		25
1,2-Dichlorobenzene	99		-		70-130	-		25
n-Butylbenzene	99		-		70-130	-		25
1,2,4-Trichlorobenzene	118		-		70-130	-		25
Naphthalene	100		-		70-130	-		25
1,2,3-Trichlorobenzene	113		-		70-130	-		25
Hexachlorobutadiene	111		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG999559-5 QC Sample: L1713505-03 Client ID: IA003						
Dichlorodifluoromethane	0.469	0.317	ppbV	**39**	Q	25
Chloromethane	0.552	0.563	ppbV	2		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	0.052	0.054	ppbV	4		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	16.0	16.5	ppbV	3		25
Trichlorofluoromethane	0.212	0.214	ppbV	1		25
Isopropanol	1.16	1.20	ppbV	3		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	1.01	0.992	ppbV	2		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	0.064	0.065	ppbV	2		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG999559-5 QC Sample: L1713505-03 Client ID: IA003						
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.844	0.751	ppbV	12		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	0.043	0.044	ppbV	2		25
Tetrahydrofuran	0.870	0.899	ppbV	3		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.437	0.454	ppbV	4		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.328	0.334	ppbV	2		25
Carbon tetrachloride	0.068	0.070	ppbV	3		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	0.062	0.064	ppbV	3		25
2,2,4-Trimethylpentane	0.216	0.222	ppbV	3		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG999559-5 QC Sample: L1713505-03 Client ID: IA003						
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	0.047	0.047	ppbV	0		25
Toluene	1.29	1.31	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.071	0.071	ppbV	0		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.187	0.187	ppbV	0		25
p/m-Xylene	1.35	1.36	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.040	0.041	ppbV	2		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.656	0.662	ppbV	1		25
4-Ethyltoluene	0.772	0.778	ppbV	1		25
1,3,5-Trimethybenzene	1.83	1.87	ppbV	2		25
1,2,4-Trimethylbenzene	4.25	4.28	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG999559-5 QC Sample: L1713505-03 Client ID: IA003						
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: PENETREX

Project Number: PEN1101

Lab Number: L1713505

Report Date: 05/03/17

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1713505-01	IA001	0646	Flow 4	04/25/17	240282		-	-	-	Pass	36.0	34.8	3
L1713505-01	IA001	414	2.7L Can	04/25/17	240282	L1712422-02	Pass	-30.0	-7.7	-	-	-	-
L1713505-02	IA002	0355	Flow 3	04/25/17	240282		-	-	-	Pass	34.2	54.9	46
L1713505-02	IA002	514	2.7L Can	04/25/17	240282	L1712422-02	Pass	-30.0	-9.7	-	-	-	-
L1713505-03	IA003	0151	Flow 3	04/25/17	240282		-	-	-	Pass	35.9	39.3	9
L1713505-03	IA003	547	2.7L Can	04/25/17	240282	L1712422-02	Pass	-30.0	-4.0	-	-	-	-
L1713505-04	IA004	0747	Flow 3	04/25/17	240282		-	-	-	Pass	35.1	54.9	44
L1713505-04	IA004	104	2.7L Can	04/25/17	240282	L1712422-02	Pass	-30.0	-2.6	-	-	-	-
L1713505-05	IA005	0797	Flow 3	04/25/17	240282		-	-	-	Pass	36.0	21.7	50
L1713505-05	IA005	375	2.7L Can	04/25/17	240282	L1712422-02	Pass	-30.0	-10.8	-	-	-	-
L1713505-06	OA001	0744	Flow 3	04/25/17	240282		-	-	-	Pass	36.0	36.8	2
L1713505-06	OA001	1732	2.7L Can	04/25/17	240282	L1712422-02	Pass	-30.0	-7.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712422
Report Date: 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02
Client ID: CAN 338 SHELF 2
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/20/17 10:36
Analyst: RY

Date Collected: 04/19/17 16:00
Date Received: 04/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1712422

Project Number: CANISTER QC BAT **Report Date:** 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02 Date Collected: 04/19/17 16:00

Client ID: CAN 338 SHELF 2 Date Received: 04/20/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712422
Report Date: 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02
Client ID: CAN 338 SHELF 2
Sample Location:
Date Collected: 04/19/17 16:00
Date Received: 04/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1712422

Project Number: CANISTER QC BAT **Report Date:** 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02 Date Collected: 04/19/17 16:00

Client ID: CAN 338 SHELF 2 Date Received: 04/20/17

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712422
Report Date: 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02
Client ID: CAN 338 SHELF 2
Sample Location:
Date Collected: 04/19/17 16:00
Date Received: 04/20/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	109		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	102		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1712422

Project Number: CANISTER QC BAT **Report Date:** 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02
Client ID: CAN 338 SHELF 2
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/17 10:36
Analyst: RY

Date Collected: 04/19/17 16:00
Date Received: 04/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712422
Report Date: 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02
Client ID: CAN 338 SHELF 2
Sample Location:
Date Collected: 04/19/17 16:00
Date Received: 04/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712422
Report Date: 05/03/17

Air Canister Certification Results

Lab ID: L1712422-02
Client ID: CAN 338 SHELF 2
Sample Location:
Date Collected: 04/19/17 16:00
Date Received: 04/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	114		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	109		60-140

Project Name: PENETREX
Project Number: PEN1101

Lab Number: L1713505
Report Date: 05/03/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**

Cooler

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1713505-01A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-SIM(30)
L1713505-02A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-SIM(30)
L1713505-03A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-SIM(30)
L1713505-04A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-SIM(30)
L1713505-05A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-SIM(30)
L1713505-06A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	PENETREX	**Lab Number:**	L1713505
Project Number:	PEN1101	**Report Date:**	05/03/17

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

Report Format: Data Usability Report

Project Name:	PENETREX	**Lab Number:**	L1713505
Project Number:	PEN1101	**Report Date:**	05/03/17

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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

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 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
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.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/28/17

ALPHA Job #: L1713505

Client Information

Client: PWGC
Address: 630 Johnson Ave
Bohemia, NY 11716
Phone: 631-589-6353
Fax:
Email: Johne@pwgrosser.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Penetrex
Project Location: 1 Shore Rd, Glenwood Landing, NY
Project #: PEN1101
Project Manager: John Eichler
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☒ Additional Deliverables: ASP-B
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS: TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
3505-01	IA001	4-27-17	0905	0955	-29.95	-8.27	AA	KC	2.7L	414	0646		X						
-02	IA002		0855	1000	-30.32	-10.63				514	0355								
-03	IA003		0850	0950	-30.02	-4.98				547	0151								
-04	IA004		0900	0952	-29.71	-3.08				104	0747								
-05	IA005		0812	0908	-29.98	-11.55				3750	797								
-06	OAC01		0835	0930	-30.19	-8.11				1732	0744								

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: S

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:
	4-27-17 14:00	BOB DAL	4-27-17 - 14:00
BOB	4-27-17 20:35	Anthony Krueger (AAL)	4/28/17 09:34
Anthony Krueger (AAL)	4/28/17 04:14		4/28/17 04:14

APPENDIX E
Data Usability Summary Report

APPENDIX F
Site-Wide Inspection Form

Annual Inspection Checklist

FORMER PENETREX PROCESSING FACILITY

1 SHORE ROAD

GLENWOOD LANDING, NEW YORK

Date/time: 11/1/17

Inspector (name/organization): John Eichler / P.W. Grosser Consulting, Inc.

Detail the condition of the first floor concrete slab, make note of any significant penetrations through the concrete slab: The condition of the slabs are good. No significant penetrations were observed.

Detail the condition of sub-slab depressurization system, including, above grade piping, two blowers, and two pressure alarms: No damage was observed in the above-grade piping and the two blowers. The pressure readings indicated that the blowers were functioning as intended. The pressure alarms were tested by deactivating the SSDS, at which time the alarms sounded, indicating that the alarms were functioning properly.

Are any repairs and/or maintenance needed at this time? If so, conduct another inspection following repairs.

No repairs are needed at this time. There were no signs of development or ground-intrusive activities having been performed since the implementation of the SMP. No damage was observed for the monitoring wells.

John Eichler		11/1/17
Name	Signature	Date