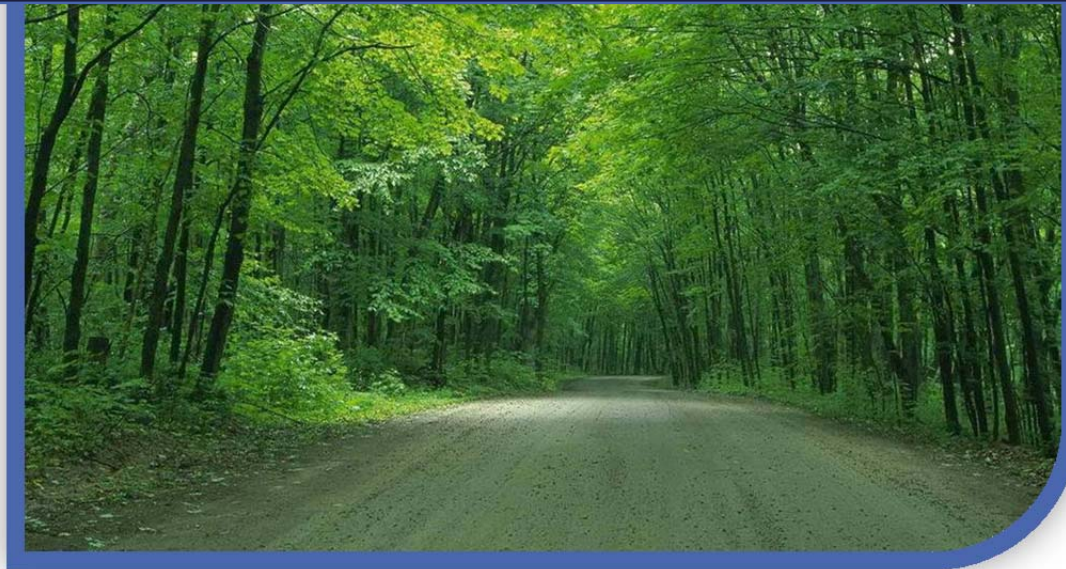




2018 REMEDIAL ACTION PROGRESS REPORT

FORMER BINGHAMTON PLASTICS FACILITY
BINGHAMTON, NEW YORK
NYSDEC SITE NO. 7-04-024



**Verina Engineering, P.C.
1011 U.S. Highway 22, Suite 302
Bridgewater, New Jersey 08807**

January 2019

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INTRODUCTION

This Remedial Action Progress Report (RAPR) was prepared by Verina Engineering, P.C. (VERINA), on behalf of Dover Corporation (Dover), for the remedial activities implemented in 2018 at the former Binghamton Plastics site in Binghamton, Broome County, New York, and New York State Department of Conservation (NYSDEC) Site No. 7-04-024.

The activities implemented in 2018 include:

- Quarterly in-situ chemical oxidation (ISCO) injections;
- Semi-annual groundwater monitoring; and
- Monthly monitoring of the Active Sub-Slab Depressurization (ASD) System.

The project was implemented in accordance with the executed Order on Consent between Dover and the New York State of Environmental Conservation (NYSDEC), dated January 19, 2001, and subsequent approvals from the NYSDEC.

SITE HISTORY AND BACKGROUND

The former Binghamton Plastics site is located at 498 Conklin Avenue in Binghamton, Broome County, New York. The site occupies approximately two acres and consists of a one-story industrial building (approximately 44,800 square feet [ft²]) with associated parking, landscaping, and storage areas. The site is located in a combined industrial and residential setting. Figure 1 shows the site location. A site map is presented on Figure 2.

Binghamton Plastics operated the facility until the early 1980s when Universal Instruments Corporation (UIC), a former subsidiary of Dover, purchased the property and converted the facility into a circuit board manufacturing plant. UIC operated the facility until it was taken over by Dover Electronics Corporation in the late 1980s. Manufacturing activities ceased at the site in the early 1990s. In 1993 Dover Electronics was separated from Dover and re-named Dovatron, Inc. In 1996, Dovatron, Inc. changed its name to DII Group.

In the early 1990s, the property was transferred to Flextronics International, Inc. but UIC retained responsibilities for the remediation of pre-existing environmental conditions. From the early 1990s until August 2001, the facility was leased to and used by McIntosh Laboratories for electronics repair operations. The site was then sold to TeamWorld, Inc., and the building is now used for silk screening, embroidery, packaging of clothing, and storage.

REMEDIAL ACTIVITIES

Remedial actions were implemented following the approval of the Remedial Design (RD) Package (BBL 2002) by the NYSDEC on June 29, 2002. The remedial action consisted of excavating the main source areas of constituents of concern (COCs) within the perched groundwater zone. Excavation and groundwater extraction activities were conducted to remove residual contamination in the form of

phase-separated hydrocarbons (PSH), adsorbed volatile organic compounds (VOCs), and impacted groundwater. Groundwater that drained from the excavated perched-zone soil during the remedial action or that accumulated in the open excavations was removed for offsite treatment and disposal.

Since 2004, the groundwater monitoring program has been implemented to assess the effectiveness of the remedial action in remediating COC concentrations within the perched groundwater at the site. The groundwater monitoring program consists of a baseline groundwater monitoring event that was conducted on April 1, 2002 prior to remedial activities and subsequent post-remedial quarterly groundwater monitoring events. The groundwater monitoring frequency was reduced from a quarterly to a semi-annual basis in 2011 based on the NYSDEC approval on December 23, 2010.

Pursuant to approval from NYSDEC in its letter dated November 14, 2008, the ISCO injection program was initiated in June 2009 to further reduce the residual COCs in groundwater. The injection of sodium permanganate solution has been conducted in the upgradient monitoring wells (MW-9, MW-10, and MW-17) as well as in the source area (MW-8, MW-11, and MW-16). The injection frequency was reduced from quarterly to semi-annual basis in 2011, yet returned to a quarterly injection schedule in 2012. Additionally, one direct-push injection event within the plume area was conducted at the site in May 2013. Based upon a comparison of the March and September 2017 groundwater data, elevated levels of COCs in groundwater were still observed within several site monitoring wells and therefore VERINA continued the quarterly manual injection schedule in 2018. Since June 2009, a total of 36 rounds of sodium permanganate manual injections have been conducted at the site.

In accordance with the 2012 Remedial Design Work Plan - Active Sub-slab Depressurization (ASD) System (VERINA 2012), an ASD system was installed at the site in July 2012 to mitigate the degradation of indoor air quality at the site. Monthly inspections of the ASD system were implemented since its full-time operation in July 2012.

GROUNDWATER MONITORING AND ISCO INJECTION PROGRAM

GROUNDWATER MONITORING AND SAMPLING

Groundwater monitoring events were conducted semi-annually in 2018 to monitor site groundwater conditions and to assess the effectiveness of the ISCO injection program to remediate COCs at the site. The first-round groundwater sampling event was conducted between March 20 and 22, 2018 and the second-round groundwater sampling event was conducted on September 20, 2018.

Prior to each sampling event, the depth to groundwater was measured from all 14 monitoring wells (DMW-3, DMW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17, and TMP-A) on site and recorded on VERINA's groundwater gauging logs in order to establish groundwater elevations and groundwater flow direction at the site. Water level measurements were taken with a Solinst® brand laser-marked water level meter equipped with a stainless steel probe and measuring tape graduated in units of 0.01 foot. Groundwater elevation measurements from March 2018 and September 2018 are summarized in Tables 1 and 2, respectively. A map showing the perched groundwater elevation isocontours and groundwater flow direction is included as Figure 3 for the March 2018 event and as Figure 4 for the September 2018 event.

After well gauging was completed, select monitoring wells including MW-8, MW-9, MW-10, MW-16, and MW-17 were sampled in March 2018. In addition to these wells, monitoring wells DMW-3, TMP-A, MW-11, and MW-13 were also included during the September 2018 sampling event in accordance with VERINA'S 2017 Remedial Action Progress Report. Groundwater quality parameters, including pH, dissolved oxygen (DO), conductivity, temperature, turbidity, and oxidation-reduction potential (ORP), were measured via a YSI® 600XL or 556 water quality instrument coupled with a flow-through cell. In addition to measuring field parameters, the purged groundwater from each well was visually inspected for the presence of a purple or pink color, which would indicate the presence of un-reacted permanganate within the groundwater. A change in color of the water in the wells from dark purple to light pink (i.e., > visual concentration of 0.5 milligrams per liter [mg/L]) or clear (i.e., < visual concentration of 0.5 mg/L) indicates that the permanganate would have been consumed, diluted, or transported with groundwater.

Groundwater samples from monitoring wells that exhibited residual permanganate, as indicated by a pink or purple color of the purge water, were collected in laboratory-provided unpreserved vials pre-charged in the field with sodium thiosulfate. The sodium thiosulfate was added to neutralize the residual permanganate in the groundwater sample as it may influence the performance of the laboratory's analytical instruments. During the March 2018 sampling event, monitoring wells MW-8, MW-9, MW-16, and MW-17 exhibited residual permanganate while monitoring wells MW-8, MW-9, MW-11, MW-16, and MW-17 exhibited residual permanganate during the September 2018 sampling event. These wells had their residual sodium permanganate concentration analyzed for in the field immediately subsequent to site-specific parameter list (SSPL) VOC sampling using a Hach® DR890 or DR2800 colorimeter. A summary of the residual sodium permanganate groundwater concentrations is presented in Table 3.

As part of the QA/QC procedures, one duplicate sample, one matrix spike sample, one matrix spike duplicate sample, and one equipment blank sample per sampling date were also collected during each sampling event. All samples were collected in laboratory-supplied glassware, packaged on ice, and shipped to ALS Environmental (formerly Columbia Analytical Services, Inc.), of Rochester, New York (New York Laboratory Certification 10145) for analysis. All samples were analyzed for SSPL VOCs using United States Environmental Protection Agency (USEPA) Method 8260C. The SSPL VOCs analyzed for were: tetrachloroethylene (PCE); trichloroethylene (TCE); 1,1,1-trichloroethane (TCA); 1,1-dichloroethane (1,1-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); and vinyl chloride (VC).

ISCO INJECTION PROGRAM

As approved by the NYSDEC, sodium permanganate is injected manually at six monitoring wells including MW-8, MW-9, MW-10, MW-11, MW-16, and MW-17 on a quarterly basis to further reduce the dissolved COC mass present in the groundwater. The ISCO injection program was initiated in June 2009. For 2018, manual injections occurred in the months of March, June, September and December. The manual injections were performed at the above mentioned wells, via gravity feed, to deliver a 10 percent by weight sodium permanganate solution during each of the 2018 injection events. A total of 60 gallons were injected during each injection event. The ISCO injection events occurring in March and September were conducted following that month's respective groundwater monitoring activities. A manual injection summary is presented in Table 4.

GROUNDWATER ELEVATION AND FLOW DIRECTION

The groundwater elevation data from March and September 2018 are summarized in Tables 1 and 2, respectively. The groundwater elevation contour map for the March and September 2018 events are provided as Figure 3 and Figure 4, respectively.

The groundwater elevation contour maps indicate that the hydraulic gradient is slight across the site and the groundwater flow within the perched groundwater zone is to the northwest, consistent with historical groundwater flow data. Although the groundwater flow is to the northwest, the slight hydraulic gradient as well as the fact that the groundwater plume has not migrated from the site supports the perched groundwater conceptual model for the site.

GROUNDWATER MONITORING ANALYTICAL RESULTS

The groundwater analytical data for the March and September 2018 monitoring events are summarized in Tables 5 and 6, respectively. The historical distribution of SSPL VOCs, including pre-full scale ISCO injection initiation sampling results, is summarized in Table 7. An isoconcentration map comparing the total molar concentration of PCE and its daughter products as chloride equivalents from June 2009, prior to the start of injection at the site, through September 2018 is presented as Figure 5. A graphical depiction of the decreasing trend of TCE concentrations, the site contaminant of concern with the highest observed historic concentrations, is presented as Figure 6. The groundwater sampling field logs for both the March and September 2018 sampling events are provided in Appendix A. The complete

laboratory data reports for the groundwater sampling events are presented in Appendix B. The electronic data deliverables (EDDs) for each groundwater sampling event have previously been submitted to the NYSDEC via the EQUIS Data Processor application and are also included under separate submission.

Based on the information collected during injection and 2018 semi-annual groundwater monitoring events, VERINA made the following conclusions:

- In comparing the September 2018 to the June 2009 total molar concentration of PCE and its daughter products, the plume size of the highest molar concentration as chloride equivalent observed within the source zone near MW-8 and MW-16 has decreased significantly. This indicates an overall COC mass reduction (as represented by both PCE and daughter products) within the perched groundwater beneath the site. Approximately 99% mass reduction of COCs in groundwater was estimated since the ISCO injection was implemented in 2009.
- Contaminant concentrations within the source zone continue to decline since the initiation of ISCO injections.
- The plume of PCE and its daughter products continue to be contained within the perched groundwater on site.
- Several VOCs were detected above their respective NYSDEC groundwater quality standards in wells MW-8, MW-9, and MW-16 during the March 2018 sampling event. These VOCs consist of 1,1-DCA, cis-1,2-DCE and/or TCE. PCE was only detected in well MW-10 and with concentration well below its NYSDEC groundwater quality standard in March 2018.
- During the September 2018 sampling event, 1,1-DCA, cis-1,2-DCE, PCE and/or TCE were detected above their respective NYSDEC groundwater quality standards in wells MW-8, MW-9, MW-10, MW-16 and/or MW-17. PCE was detected above its NYSDEC groundwater quality standard in well MW-16 sampled in September 2018.

ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) OM&M

ASD SYSTEM INSPECTIONS

In accordance with the approved 2012 Remedial Design Work Plan – Active Sub-Slab Depressurization System (VERINA 2012), an ASD system was installed at the site. This system, shown on Figure 7, was installed in July 2012 to serve as a mitigation measure for elevated COC concentrations (specifically PCE and TCE) detected in the indoor air at the facility. Since installation and start-up, the ASD system has been operated continuously without disruption until December 2017 (see discussion below). Two rounds of indoor air sampling were conducted following implementation of the ASD system, on December 19, 2012 and December 10, 2013.

The ASD system has been effective at reducing the indoor air concentrations of COCs when comparing the December 2012 and December 2013 indoor air sampling results to the indoor air sampling results collected in March 2009 prior to the installation of the ASD system. Since no site specific COC concentrations in the indoor air samples exceeded the New York State Department of Health (NYSDOH)'s Indoor Air Guidance Values during the 2013 indoor air sampling event, VERINA proposed that no additional indoor air sampling events being conducted unless changes or modifications to the ASD system and/or to the building are identified during the monthly ASD system inspections in the January 2014 Periodic Review Report (PRP). NYSDEC approved the PRP on August 1, 2014.

During 2018, monthly inspections of the ASD system were implemented including observing and documenting the conditions of ASD system components and any structural changes or modifications to the building, as well as recording the pressure gauge measurements at each of the four vapor extraction points. Monthly ASD inspection logs are included as Appendix C.

INDOOR AIR SAMPLING AND ANALYSIS

During the December 2017 ASD system inspection event, the ASD system fan was found to not be operating properly and was therefore replaced in January 2018. To confirm that the repaired ASD system was working properly and effectively reducing indoor air concentrations of site COCs, VERINA collected indoor air samples at the site building in March 2018. VERINA collected five indoor air samples along with one outdoor ambient air sample over an 8-hour period. The air samples were collected in stainless steel Summa canisters and shipped to ALS Environmental of Rochester, New York. The locations of the air samples are shown on Figure 7 and the air sampling log is provided in Appendix D.

A review of the laboratory analytical results indicated only one compound, methylene chloride, had exceeded its respective New York State Department of Health (NYSDOH)'s Indoor Air Guidance Value in several of the indoor air samples. This compound is not a site COC and therefore the results indicate the ASD system is still effectively reducing indoor air concentrations of site COCs. The analytical results are summarized on Table 8 and the laboratory report is provided in Appendix E. The EDDs for the indoor air sampling event have previously been submitted to the NYSDEC via the EQUIS Data Processor application and are also included under separate submission.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings and conclusions of the groundwater monitoring program, field observation of the ISCO injection events, and ASD System OM&M results, VERINA has drawn the following conclusions:

- Based on the analytical results of the historic and current groundwater sampling events, COCs have not been detected in monitoring wells DMW-3, TMP-A, MW-11, MW-13, and MW-14 during several of the recent sampling events. This data supports the conclusion that the COC plume is contained at the site.
- A comparison of the 2018 groundwater sampling results to the historical sampling results indicates that the total VOC mass in the groundwater at the site has decreased by 99%. The overall total mass of COCs in groundwater have decreased significantly since the remedial action was implemented in June 2009.
- The 2018 groundwater monitoring results indicated several COCs still exceed their respective NYSDEC groundwater quality standards. However, the concentrations of these COCs are within one order of magnitude to the NYSDEC groundwater quality standards, except for PCE in well MW-16 during the September 2018 groundwater sampling event.
- The ASD system fan was replaced in early January 2018 and has been operating continuously since that time. The monthly ASD system inspections conducted in 2018 along with the indoor air sampling conducted in March 2018 confirm the system is now functioning properly.

Based on these conclusions, we recommend the following:

- VERINA will continue the semi-annual groundwater sampling program in March and September 2019. In March 2019, the wells to be sampled will include MW-8, MW-9, MW-10, MW-16, and MW-17. In addition to these wells, monitoring wells DMW-3, TMP-A, MW-11, and MW-13 will also be sampled during the September 2019 event, as shown on Table 9.
- As stated in VERINA'S 2017 RAPR and on the approval of the NYSDEC, VERINA will suspend sodium permanganate injections in 2019. Based upon the analytical results of the semi-annual groundwater sampling program in 2019, VERINA will assess the need for additional ISCO injections in the future.
- VERINA will continue monthly inspections of the ASD system. Additionally, since the ASD system fan was replaced in January 2018, VERINA collected indoor air samples in March 2018 which confirmed the ASD system is operating properly as all site COC were below the are below the NYSDOH Indoor Air Guidance Values.

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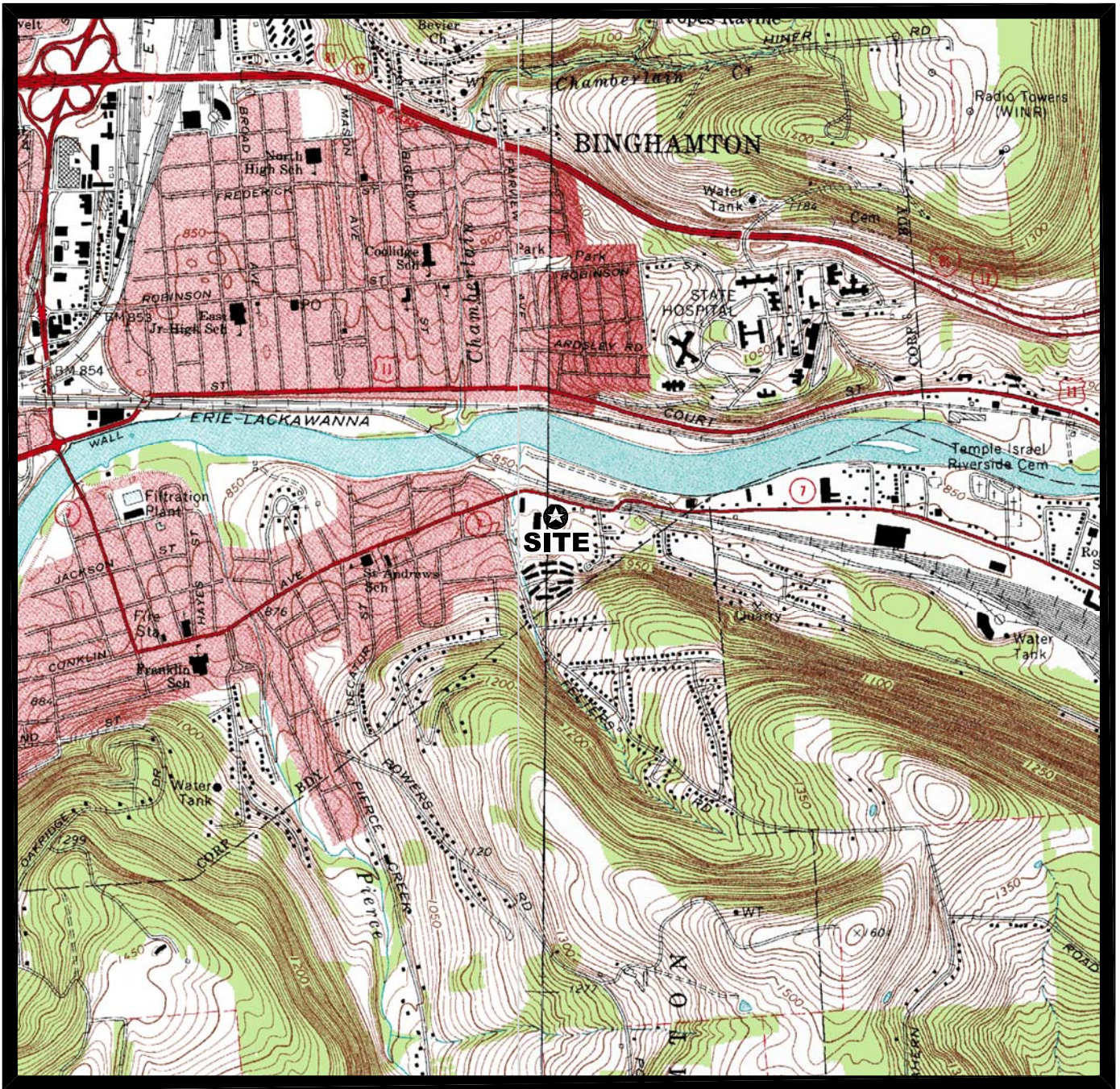
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Figures



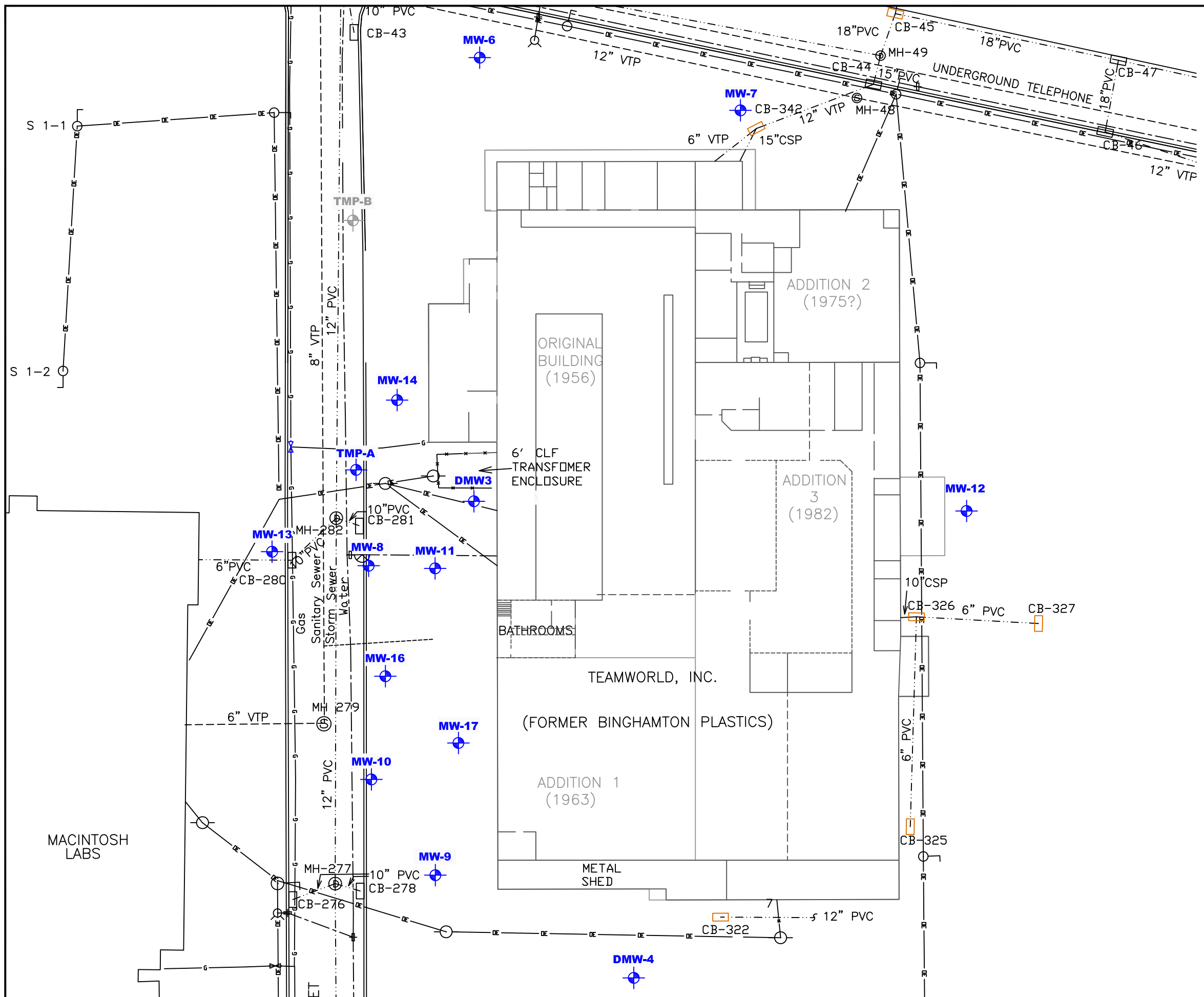
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7.5-MINUTE SERIES















FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

REGIONAL LOCATION MAP





EXPLANATION

-  **MW-6** DESIGNATION AND LOCATION OF MONITORING WELL
-  **TMP-B** DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
-  UTILITY POLE
-  UTILITY POLE W/LIGHT
-  STORM MANHOLE
-  CATCH BASIN
-  SANITARY MANHOLE
-  POST INDICATOR VALVE
-  HYDRANT
-  WATER VALVE
-  GAS VALVE
-  FORMER WALL

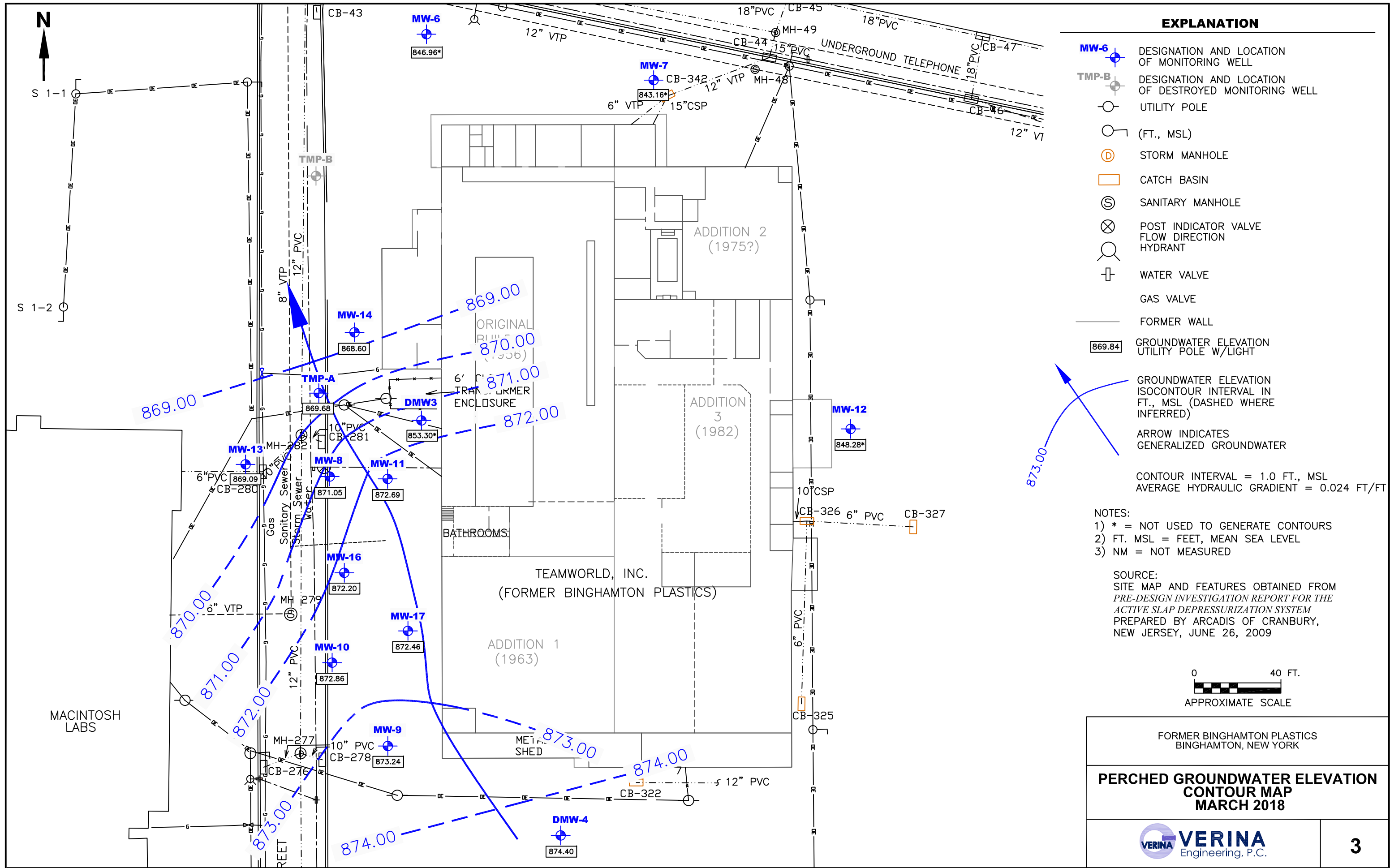
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 SITE MAP AND FEATURES OBTAINED FROM
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 ACTIVE SLAP DEPRESSURIZATION SYSTEM
 PREPARED BY ARCADIS OF CRANBURY,
 NEW JERSEY, JUNE 26, 2009



FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

**SITE MAP WITH
MONITORING WELL LOCATIONS**


2



EXPLANATION

- MW-6 DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
- (FT., MSL)
- STORM MANHOLE
- CATCH BASIN
- ⊙ SANITARY MANHOLE
- ⊗ POST INDICATOR VALVE
- FLOW DIRECTION
- HYDRANT
- ⊕ WATER VALVE
- GAS VALVE
- FORMER WALL
- 869.84 GROUNDWATER ELEVATION UTILITY POLE W/LIGHT
- GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)
- ARROW INDICATES GENERALIZED GROUNDWATER
- CONTOUR INTERVAL = 1.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.024 FT/FT

- NOTES:
- 1) * = NOT USED TO GENERATE CONTOURS
 - 2) FT. MSL = FEET, MEAN SEA LEVEL
 - 3) NM = NOT MEASURED

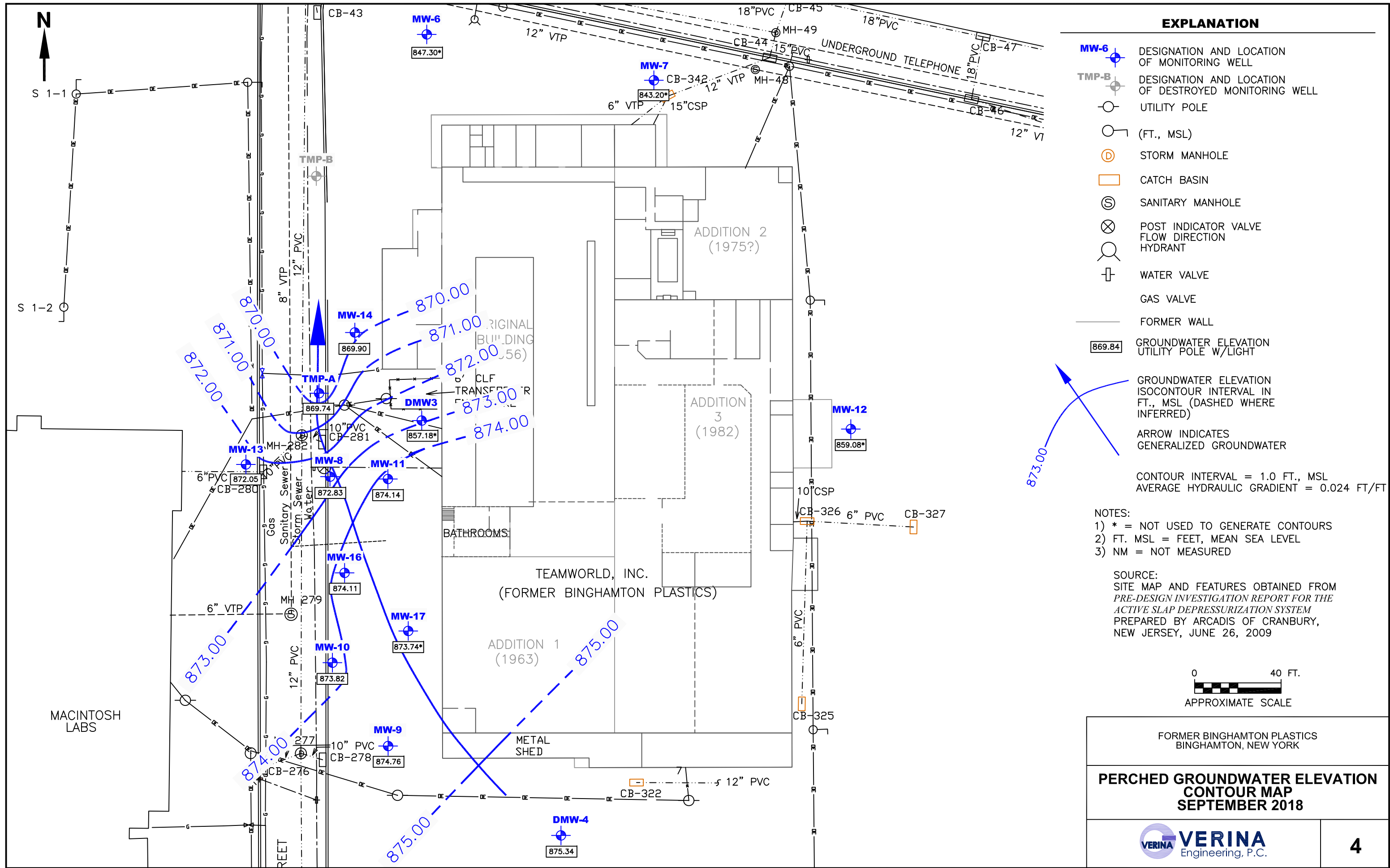
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 NEW JERSEY, JUNE 26, 2009



FORMER BINGHAMTON PLASTICS
 BINGHAMTON, NEW YORK

**PERCHED GROUNDWATER ELEVATION
 CONTOUR MAP
 MARCH 2018**

3



EXPLANATION

- MW-6** DESIGNATION AND LOCATION OF MONITORING WELL
- TMP-B** DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
- (FT., MSL)
- ⊙ STORM MANHOLE
- CATCH BASIN
- ⊙ SANITARY MANHOLE
- ⊗ POST INDICATOR VALVE
- FLOW DIRECTION
- HYDRANT
- ⊕ WATER VALVE
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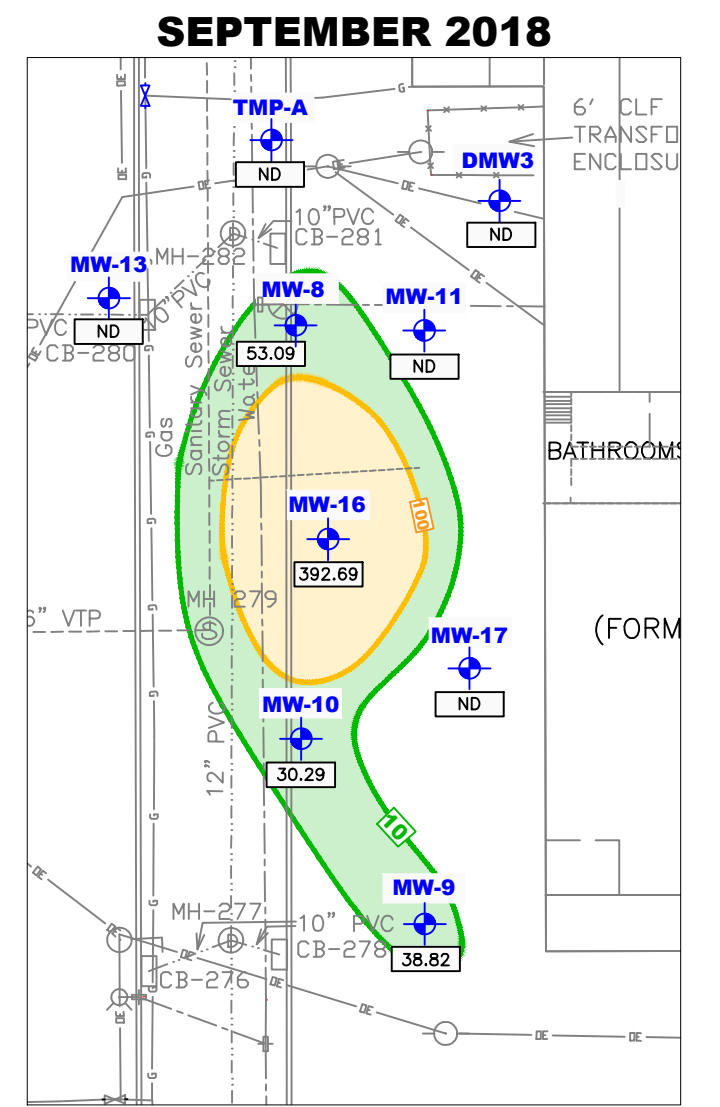
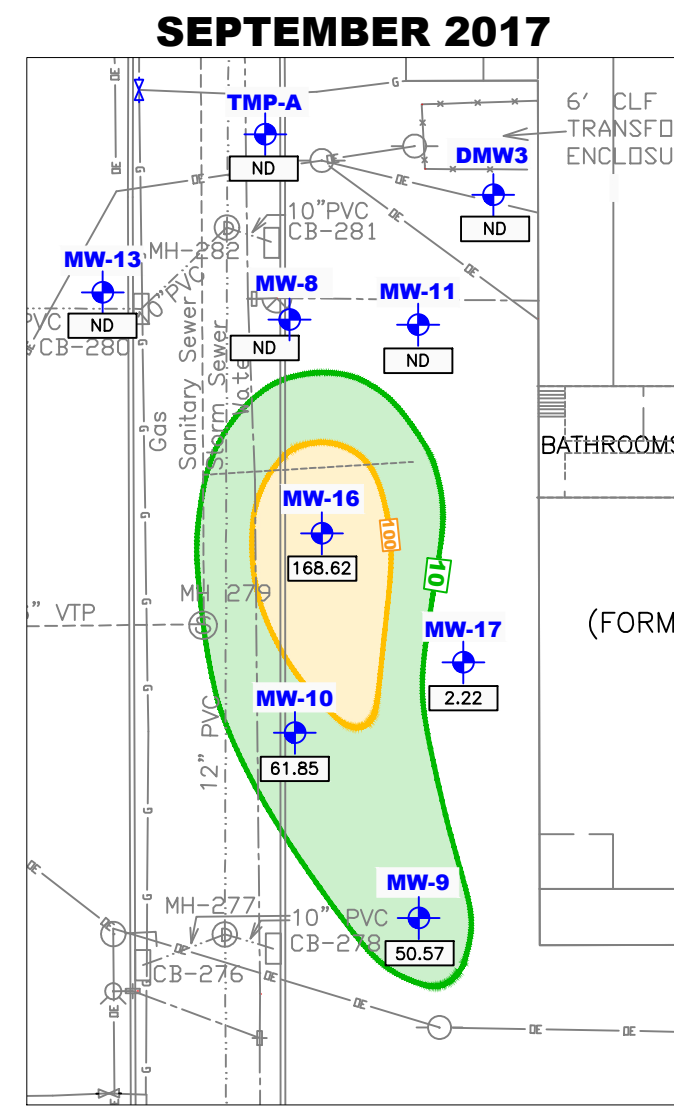
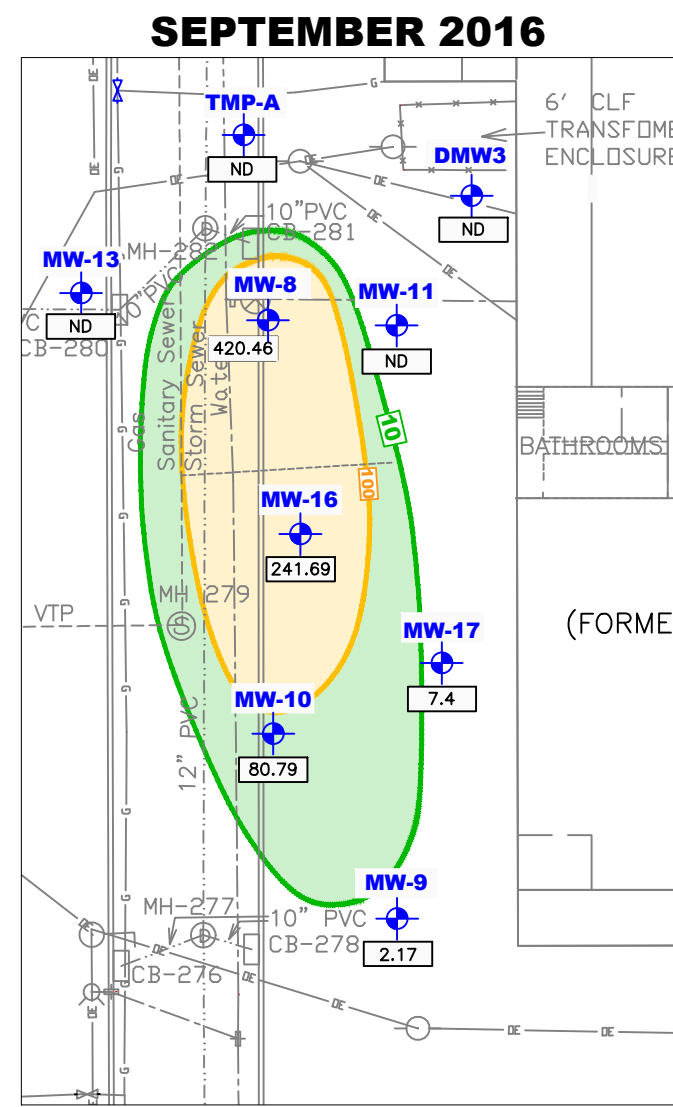
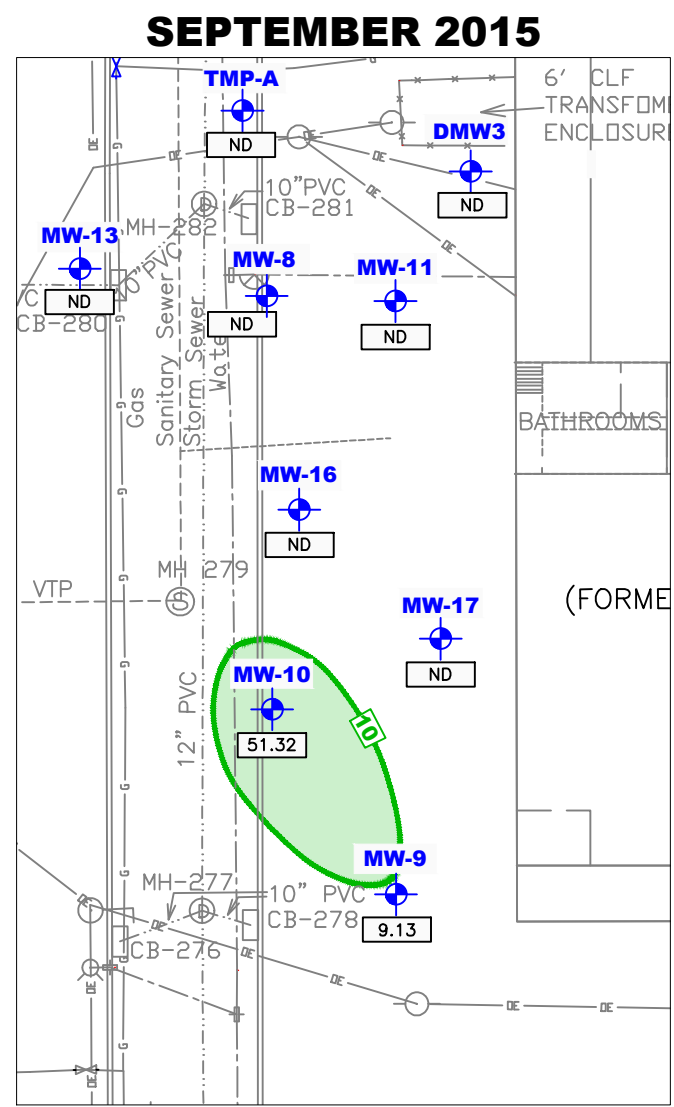
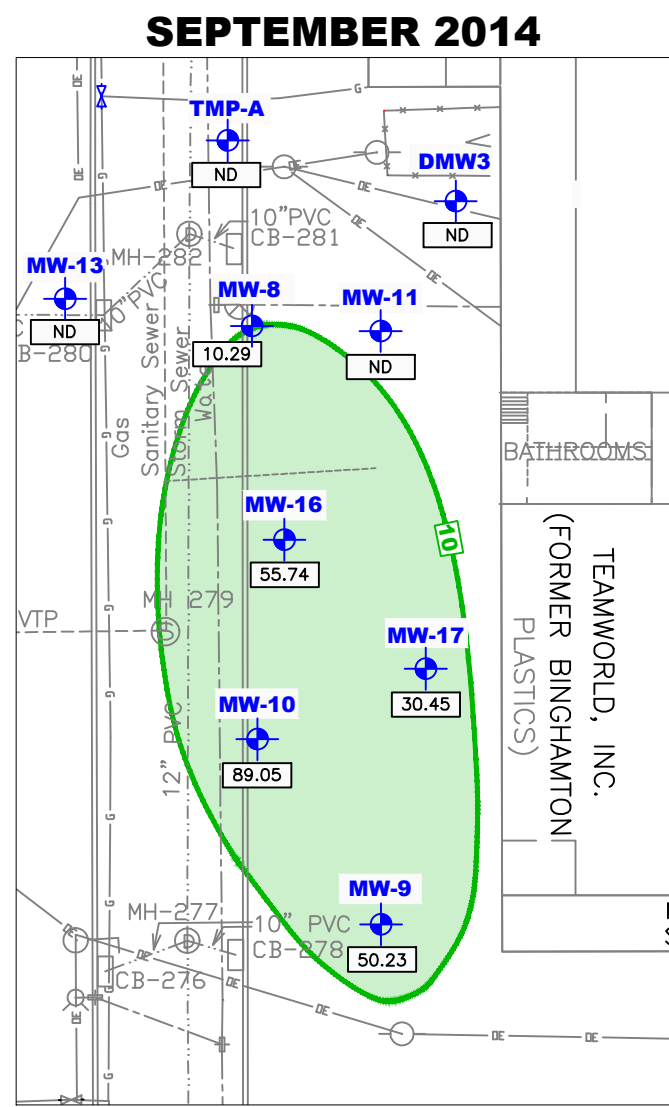
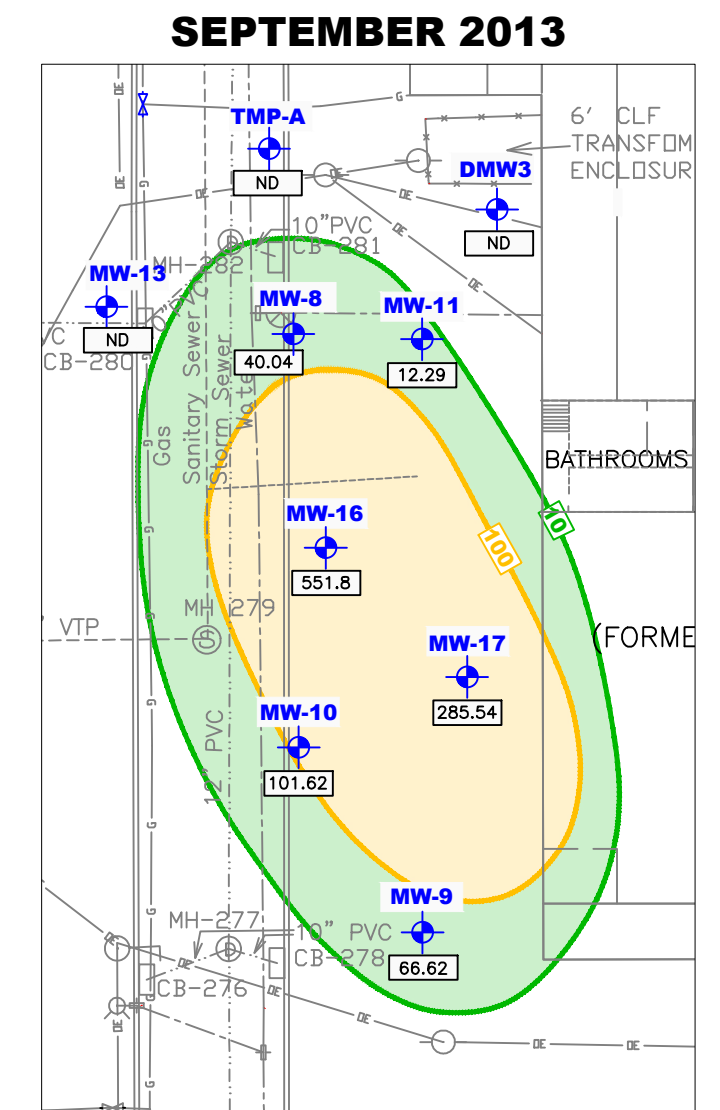
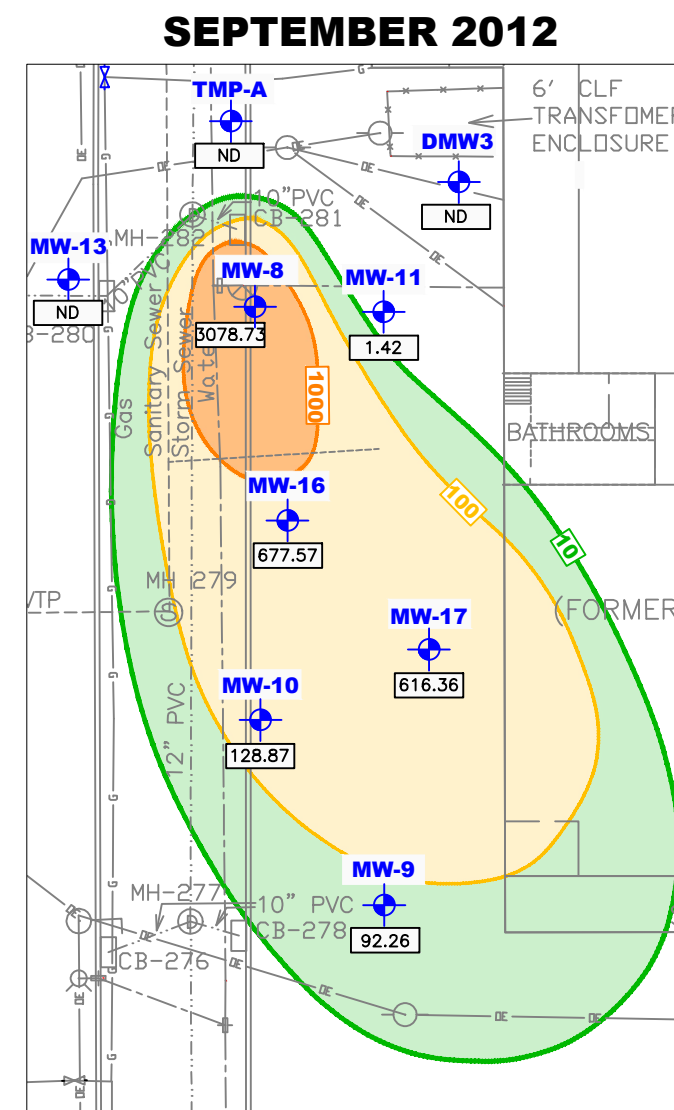
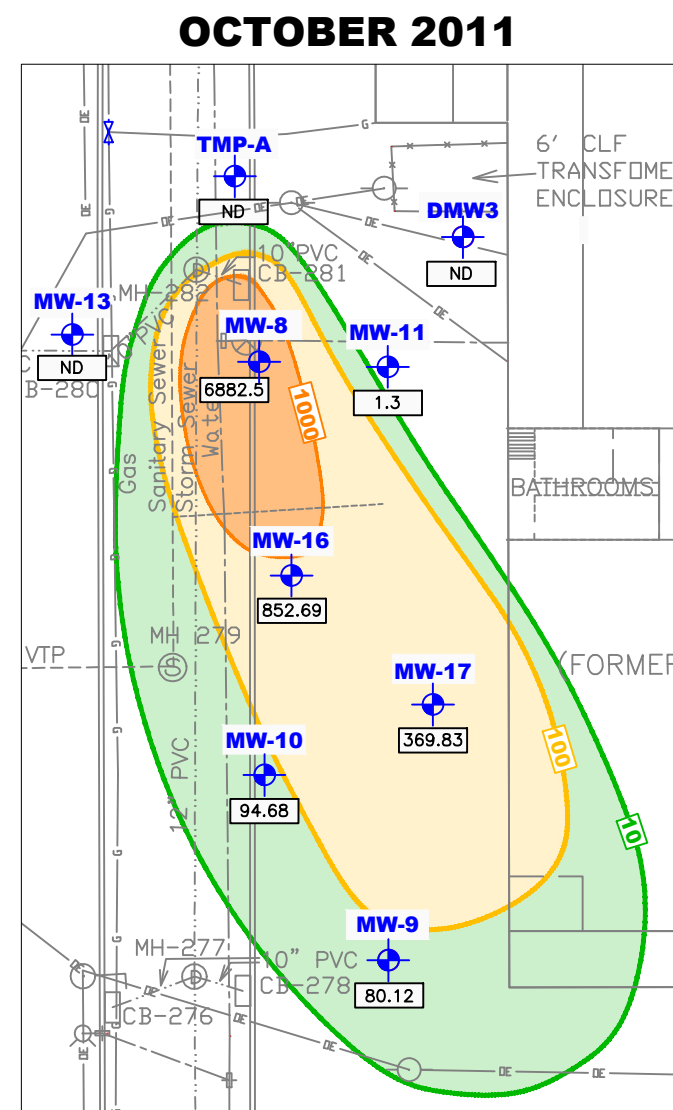
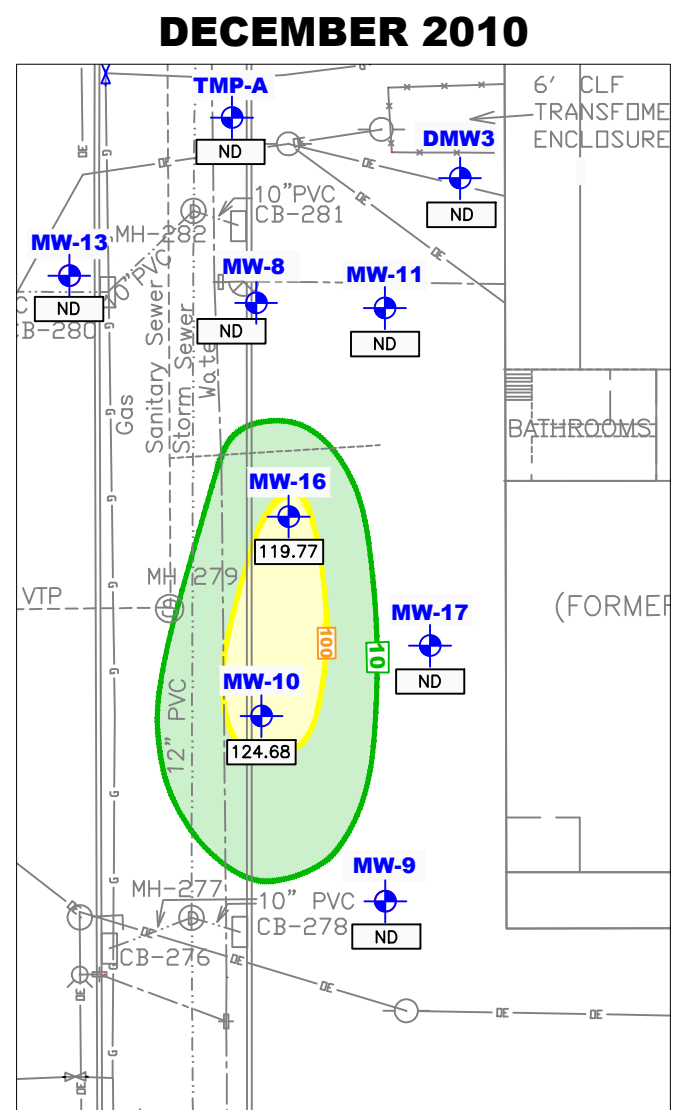
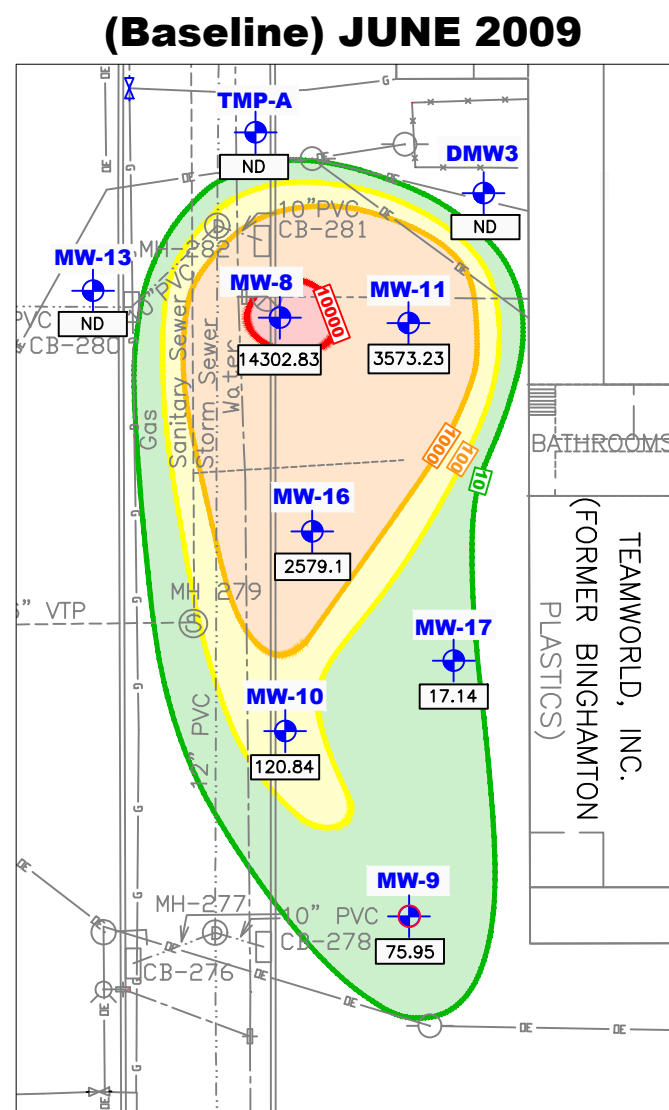


FORMER BINGHAMTON PLASTICS
 BINGHAMTON, NEW YORK

**PERCHED GROUNDWATER ELEVATION
 CONTOUR MAP
 SEPTEMBER 2018**

VERINA
 Engineering, P.C.

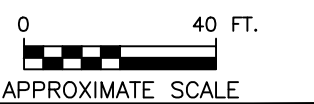
4



EXPLANATION

| | |
|--|--|
| | MOLAR CONCENTRATION > 10 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS) |
| | MOLAR CONCENTRATION > 100 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS) |
| | MOLAR CONCENTRATION > 1000 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS) |
| | MOLAR CONCENTRATION > 10000 (mol x 10 ⁸)/L (AS CHLORIDE EQUIVALENTS) |

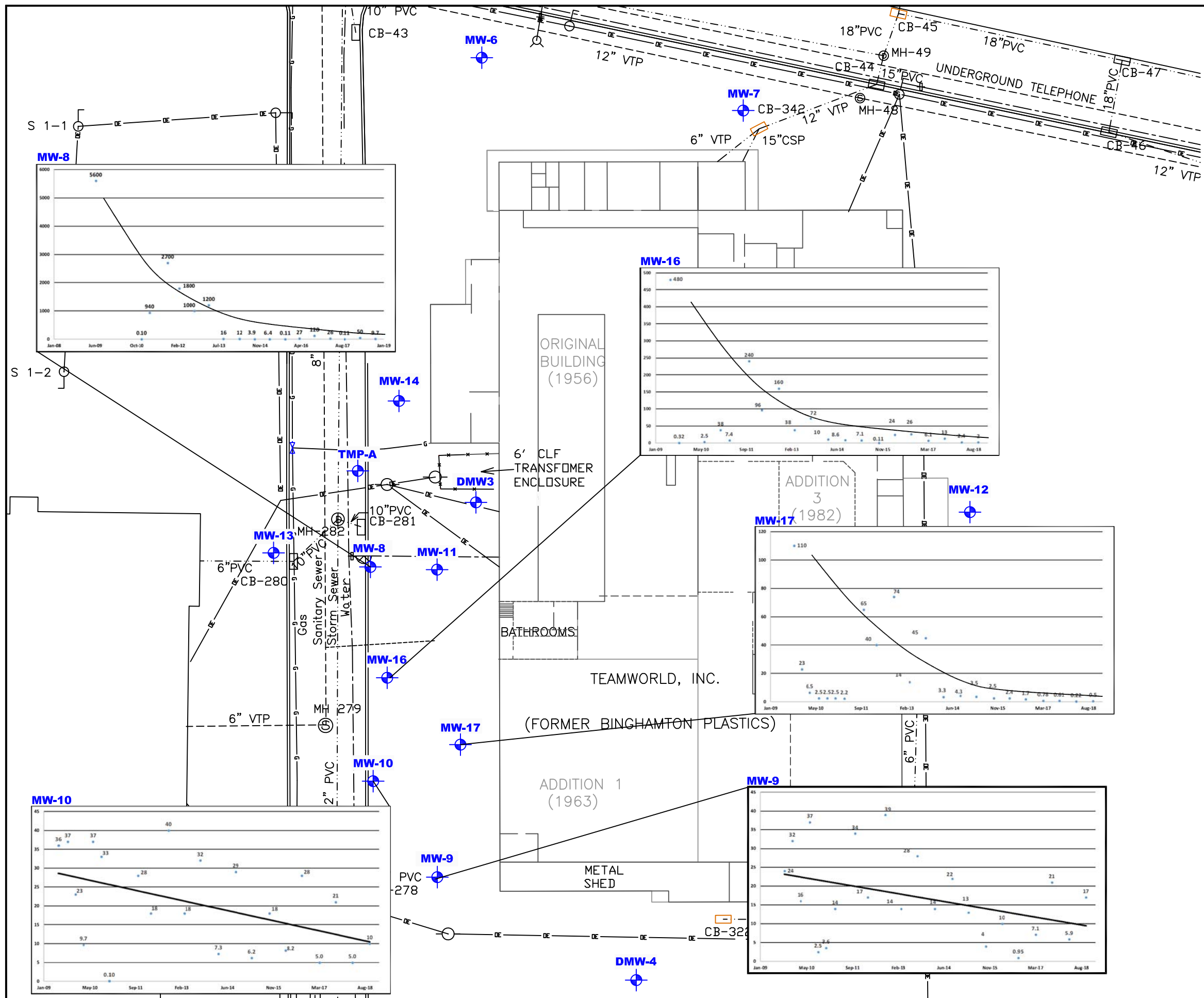
SOURCE:
SITE MAP AND FEATURES OBTAINED FROM
PRE-DESIGN INVESTIGATION REPORT FOR THE
ACTIVE SLAP DEPRESSURIZATION SYSTEM
PREPARED BY ARCADIS OF CRANBURY,
NEW JERSEY, JUNE 26, 2009



FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

**ESTIMATED PCE AND DAUGHTER
PRODUCTS TOTAL MOLAR ISOCONCENTRATION
PLUME MAPS AS CHLORIDE EQUIVALENTS,
BASELINE TO SEPTEMBER 2018**

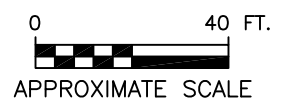
VERINA
Engineering, P.C.



EXPLANATION

- DESIGNATION AND LOCATION OF MONITORING WELL
- DESIGNATION AND LOCATION OF DESTROYED MONITORING WELL
- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL

SOURCE:
 SITE MAP AND FEATURES OBTAINED FROM
 PRE-DESIGN INVESTIGATION REPORT FOR THE
 ACTIVE SLAP DEPRESSURIZATION SYSTEM
 PREPARED BY ARCADIS OF CRANBURY,
 NEW JERSEY, JUNE 26, 2009

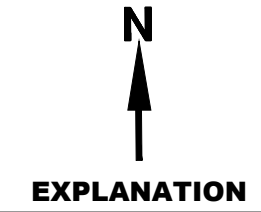
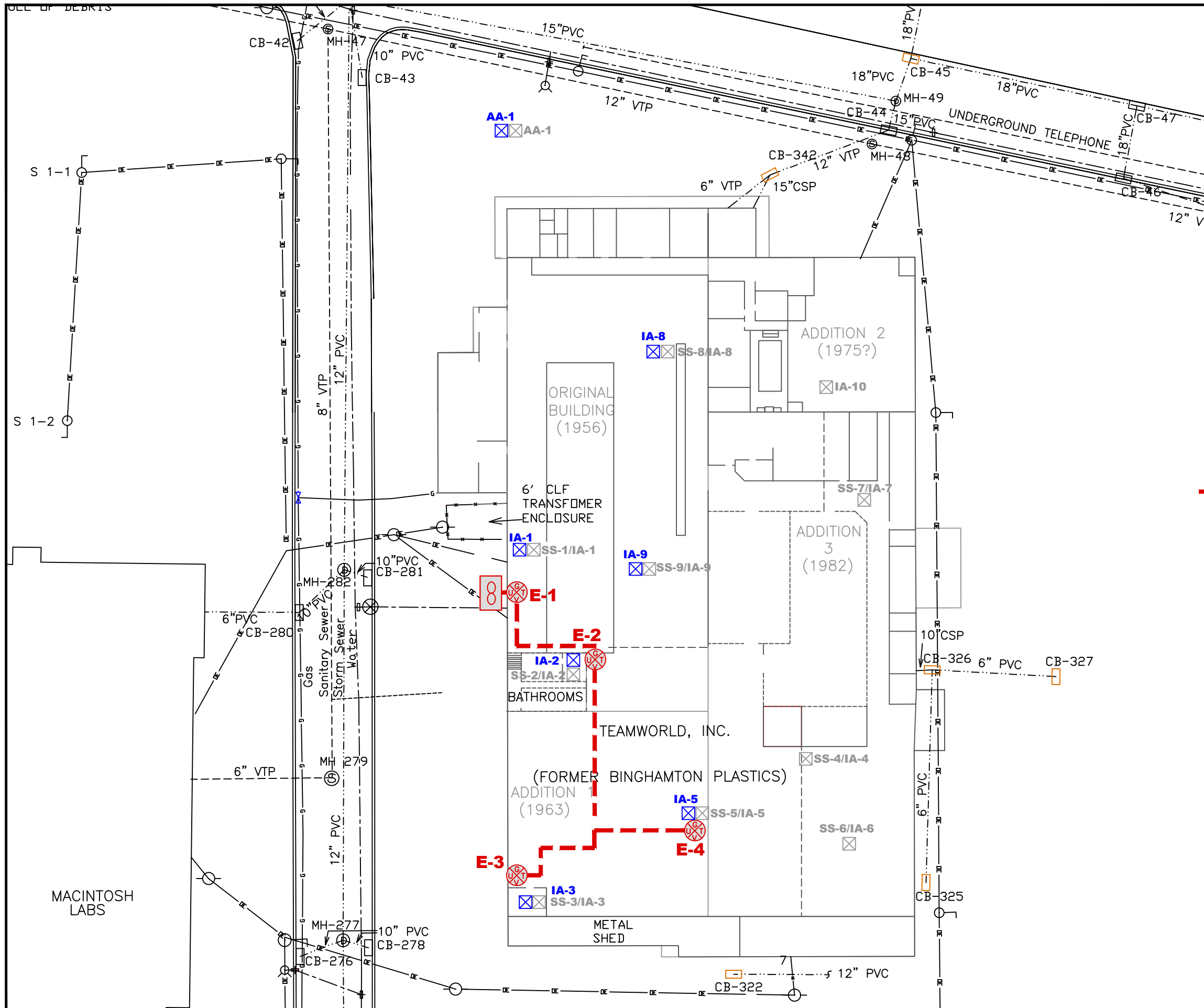


FORMER BINGHAMTON PLASTICS
 BINGHAMTON, NEW YORK

TCE TREND ANALYSIS AT SELECT WELLS

VERINA
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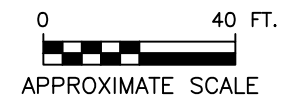
Tables



EXPLANATION

- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL
- DESIGNATION AND APPROXIMATE LOCATION OF SUCTION POINT WITH GATE VALVE AND VACUUM GAUGE
- APPROXIMATE LOCATION OF EXHAUST FAN
- APPROXIMATE LOCATION OF PIPE ROUTE
- LOCATION OF INDOOR OR AMBIENT AIR SAMPLING LOCATION (DECEMBER 2012)
- APPROXIMATE LOCATION OF SUB-SLAB SOIL GAS, INDOOR AND AMBIENT AIR SAMPLING LOCATION (MARCH 2009)

SOURCE:
 1) SITE MAP AND FEATURES OBTAINED FROM PRE-DESIGN INVESTIGATION REPORT FOR THE ACTIVE SLAP DEPRESSURIZATION SYSTEM PREPARED BY ARCADIS OF CRANBURY, NEW JERSEY, JUNE 26, 2009
 2) ASD SYSTEM LAYOUT OBTAINED FROM SUB SLAB DEPRESSURIZATION AS BUILT SKETCH PREPARED BY KEYSTONE MATERIAL TESTING, LLC OF BINGHAMTON, NEW YORK, AUGUST 1, 2012



FORMER BINGHAMTON PLASTICS
 BINGHAMTON, NEW YORK

**ASD SYSTEM LAYOUT AND
 INDOOR AIR SAMPLING LOCATIONS**

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 Engineering, P.C.

7

Table 1 - Groundwater Elevation Data - March 2018, Former Binghamton Plastics, Binghamton, New York

| Monitoring Well | Well Diameter (in) | Total Depth (ft, bg) | Screened Interval (ft, bg) | Surface Elevation (ft, msl) | Top of Casing Elevation (ft, msl) | Top of PVC Elevation (ft, msl) | Depth to Water (ft, TOC) | Groundwater Elevation (ft, msl) |
|-----------------|--------------------|----------------------|----------------------------|-----------------------------|-----------------------------------|--------------------------------|--------------------------|---------------------------------|
| DMW-1 | 4 | 15 | 5-15 | 876.19 | 876.44 | 874.21 | Abandoned | NA |
| DMW-3 | 2 | 48.36 | 41-48 | 875.16 | 875.16 | 874.22 | 20.92 | 853.30 |
| DMW-4 | 2 | 15.59 | 4-14 | 878.32 | 878.38 | 877.91 | 3.51 | 874.40 |
| MW-5 | 2 | 20 | 10-20 | 874.18 | 874.17 | 873.83 | Abandoned | NA |
| MW-6 | 2 | 39.95 | 30-40 | 869.62 | 869.63 | 869.37 | 22.41 | 846.96 |
| MW-7 | 2 | 40.31 | 30-40 | 869.96 | 869.99 | 869.60 | 26.44 | 843.16 |
| MW-8 | 2 | 14.24 | 5-15 | 873.22 | 873.18 | 872.83 | 1.78 | 871.05 |
| MW-9 | 2 | 14.63 | 5-15 | 875.02 | 875.04 | 874.76 | 1.52 | 873.24 |
| MW-10 | 2 | 14.46 | 5-15 | 875.70 | 875.71 | 875.47 | 2.61 | 872.86 |
| MW-11 | 2 | 19.31 | 10-20 | 874.53 | 874.52 | 874.14 | 1.45 | 872.69 |
| MW-12 | 2 | 44.10 | 35-45 | 873.70 | 873.70 | 873.38 | 25.10 | 848.28 |
| MW-13 | 2 | 13.97 | 5-15 | 874.08 | 874.09 | 873.60 | 4.51 | 869.09 |
| MW-14 | 2 | 14.38 | 5-15 | 871.06 | 871.07 | 870.57 | 1.97 | 868.60 |
| MW-15 | 2 | 15 | 5-15 | 874.06 | 874.16 | 873.69 | Abandoned | NA |
| MW-16 | 2 | 13.27 | 5-15 | 874.56 | NS | 874.11 | 1.91 | 872.20 |
| MW-17 | 2 | 15.11 | 5-15 | 874.03 | NS | 873.74 | 1.28 | 872.46 |
| TMP-A | 1 | 7.36 | 3-8 | 871.59 | NS | 871.39 | 1.71 | 869.68 |
| TMP-B | 1 | 10 | 5-10 | 869.57 | NS | 869.36 | Abandoned | NA |

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NM = Not measured

NS = Not surveyed

Groundwater elevation measured on March 21, 2017

Table 2 - Groundwater Elevation Data - September 2018, Former Binghamton Plastics, Binghamton, New York

| Monitoring Well | Well Diameter (in) | Total Depth (ft, bg) | Screened Interval (ft, bg) | Surface Elevation (ft, msl) | Top of Casing Elevation (ft, msl) | Top of PVC Elevation (ft, msl) | Depth to Water (ft, TOC) | Groundwater Elevation (ft, msl) |
|-----------------|--------------------|----------------------|----------------------------|-----------------------------|-----------------------------------|--------------------------------|--------------------------|---------------------------------|
| DMW-1 | 4 | 15 | 5-15 | 876.19 | 876.44 | 874.21 | Abandoned | NA |
| DMW-3 | 2 | 48.02 | 41-48 | 875.16 | 875.16 | 874.22 | 17.98 | 857.18 |
| DMW-4 | 2 | 15.32 | 4-14 | 878.32 | 878.38 | 877.91 | 2.57 | 875.34 |
| MW-5 | 2 | 20 | 10-20 | 874.18 | 874.17 | 873.83 | Abandoned | NA |
| MW-6 | 2 | 39.43 | 30-40 | 869.62 | 869.63 | 869.37 | 21.44 | 847.93 |
| MW-7 | 2 | 39.90 | 30-40 | 869.96 | 869.99 | 869.60 | 26.40 | 843.20 |
| MW-8 | 2 | 14.11 | 5-15 | 873.22 | 873.18 | 872.83 | 0.00 | 872.83 |
| MW-9 | 2 | 14.63 | 5-15 | 875.02 | 875.04 | 874.76 | 0.00 | 874.76 |
| MW-10 | 2 | 14.43 | 5-15 | 875.70 | 875.71 | 875.47 | 1.65 | 873.82 |
| MW-11 | 2 | 19.05 | 10-20 | 874.53 | 874.52 | 874.14 | 0.00 | 874.14 |
| MW-12 | 2 | 44.30 | 35-45 | 873.70 | 873.70 | 873.38 | 14.30 | 859.08 |
| MW-13 | 2 | 14.00 | 5-15 | 874.08 | 874.09 | 873.60 | 1.35 | 872.25 |
| MW-14 | 2 | 14.18 | 5-15 | 871.06 | 871.07 | 870.57 | 0.67 | 869.90 |
| MW-15 | 2 | 15 | 5-15 | 874.06 | 874.16 | 873.69 | Abandoned | NA |
| MW-16 | 2 | 13.90 | 5-15 | 874.56 | NS | 874.11 | 0.00 | 874.11 |
| MW-17 | 2 | 14.83 | 5-15 | 874.03 | NS | 873.74 | 0.00 | 873.74 |
| TMP-A | 1 | 7.35 | 3-8 | 871.59 | NS | 871.39 | 1.65 | 869.74 |
| TMP-B | 1 | 10 | 5-10 | 869.57 | NS | 869.36 | Abandoned | NA |

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NM = Not measured

NS = Not surveyed

Groundwater elevation measured on September 14, 2017

Table 3 - Summary of Residual Sodium Permanganate Results, Former Binghamton Plastics, Binghamton, New York

| Well ID No. | Residual Sodium Permanganate by Permanganate Ion Analysis (ppm) | | | | | |
|-------------|---|------------|-----------|----------------|---------------|------------|
| | December 2009 | March 2010 | June 2010 | September 2010 | December 2010 | March 2011 |
| MW-8 | 131.5 | 149 | 105.50 | 9.56 | >19.8 | 3.74 |
| MW-9 | 0.30 | 1.736 | 1.47 | 10.04 | NS | 18.91 |
| MW-10 | 3.07 | 4.268 | NS | 3.57 | >19.8 | 156.34 |
| MW-11 | 132.2 | 149.1 | 151.70 | 120.80 | >19.8 | 155.98 |
| MW-16 | 29.71 | 95.1 | 76.99 | 105.60 | >19.8 | 0.835 |
| MW-17 | NS | NS | 103.00 | 11.21 | >19.8 | 155.98 |

| Well ID No. | Residual Sodium Permanganate by Permanganate Ion Analysis (ppm) | | | | | |
|-------------|---|------------|----------------|------------|----------------|------------|
| | October 2011 | March 2012 | September 2012 | March 2013 | September 2013 | March 2014 |
| MW-8 | 0.16 | 17.2 | 1.3 | 0.5 | 70 | 14 |
| MW-9 | NS | 7.3 | NS | 0.2 | NS | 3.0 |
| MW-10 | NS | 2.4 | NS | NS | NS | NS |
| MW-11 | 35.80 | 26.1 | 10.7 | 30 | 34 | 20 |
| MW-16 | 146.46 | 4.6 | 1.7 | 1.1 | 1.3 | 3.1 |
| MW-17 | NS | NS | 4.7 | 2.5 | 1.0 | 2.9 |

| Well ID No. | Residual Sodium Permanganate by Permanganate Ion Analysis (ppm) | | | | | |
|-------------|---|----------------|------------|----------------|------------|----------------|
| | March 2014 | September 2014 | March 2015 | September 2015 | March 2016 | September 2016 |
| MW-8 | 14.0 | 10.0 | 10.3 | 164 | 102 | 35.1 |
| MW-9 | 3.0 | 1.1 | 1.0 | 24 | 29 | 93.8 |
| MW-10 | NS | NS | NS | 0.8 | NS | NS |
| MW-11 | 20.0 | 11.1 | NS | 6.0 | NS | 221.2 |
| MW-16 | 3.1 | 114 | 110.8 | 8.0 | 12 | 67 |
| MW-17 | 2.9 | 24.4 | 23.7 | 104 | 99 | 112 |

| Well ID No. | Residual Sodium Permanganate by Permanganate Ion Analysis (ppm) | | | | | |
|-------------|---|----------------|------------|----------------|--|--|
| | March 2017 | September 2017 | March 2018 | September 2018 | | |
| MW-8 | 81.9 | 68.6 | 93.6 | 1.2 | | |
| MW-9 | 13.7 | 8.7 | 16.8 | 0.1 | | |
| MW-10 | NS | NS | NS | NS | | |
| MW-11 | NS | 315.2 | NS | 22.7 | | |
| MW-16 | 160.0 | 302.4 | 93 | 0.1 | | |
| MW-17 | 12.0 | 238.5 | 84.6 | 2.4 | | |

NOTES:

ppm = parts per million

NS = Not sampled due to no pink or purple color in water

A Hach DR890 or DR2800 colorimeter was used to measure the concentration of residual sodium permanganate

Table 4 - Summary of Sodium Permanganate Manual Injection Events, Former Binghamton Plastics, Binghamton, New York

| Well ID No. | Injection Date | | | | |
|-------------|----------------|------------|-------------|---------------------|------------|
| | 6/11/2009* | 9/18/2009* | 12/10/2009* | 3/9/2010-3/10/2010* | 6/23/2010* |
| MW-8 | 5 | 11 | 11 | 12.125 | 11 |
| MW-9 | 5 | 11 | 11 | 11 | 11 |
| MW-10 | 7 | 11 | 11 | 11 | 11 |
| MW-11 | 3 | 5 | 5 | 2.75 | 5 |
| MW-16 | 5 | 11 | 11 | 12.125 | 11 |
| MW-17 | 5 | 11 | 11 | 11 | 11 |
| Total | 30 | 60 | 60 | 60 | 60 |

| Well ID No. | Injection Date | | | | |
|-------------|----------------|-------------|-------------|-------------|-------------|
| | 9/22/2010* | 12/16/2010* | 3/24/2011** | 11/4/2011** | 3/22/2012** |
| MW-8 | 11 | 11 | 11 | 5 | 1.25 |
| MW-9 | 11 | 11 | 11 | 22 | 35 |
| MW-10 | 11 | 11 | 11 | 13 | 4.5 |
| MW-11 | 5 | 5 | 5 | 2 | 1.25 |
| MW-16 | 11 | 11 | 11 | 13 | 4.5 |
| MW-17 | 11 | 11 | 11 | 5 | 1.5 |
| Total | 60 | 60 | 60 | 60 | 48 |

| Well ID No. | Injection Date | | | | |
|-------------|----------------|-----------------------|-------------|-------------|--------------------|
| | 6/22/2012** | 9/17/2012-9/18/2012** | 3/12/2013** | 6/12/2013** | 9/2/2013-9/6/2013* |
| MW-8 | 11 | 12 | 10 | 13 | 12.5 |
| MW-9 | 11 | 12 | 13 | 10 | 11 |
| MW-10 | 12 | 10 | 13 | 10 | 11 |
| MW-11 | 3 | 4 | 2 | 4 | 4.5 |
| MW-16 | 12 | 11 | 13 | 13 | 11 |
| MW-17 | 11 | 11 | 9 | 10 | 10 |
| Total | 60 | 60 | 60 | 60 | 60 |

| Well ID No. | Injection Date | | | | |
|-------------|----------------|----------------------|------------|----------------------|-------------|
| | 12/10/2013* | 3/20/2014-3/21/2014* | 6/16/2014* | 9/25/2014-9/26/2014* | 12/17/2014* |
| MW-8 | 10 | 10 | 12 | 6 | 6.5 |
| MW-9 | 10 | 10 | 10 | 18 | 13 |
| MW-10 | 12 | 10 | 10 | 15 | 15.5 |
| MW-11 | 2 | 1.5 | 3 | 5 | 2 |
| MW-16 | 15 | 12.5 | 15 | 13 | 13 |
| MW-17 | 11 | 16 | 10 | 10 | 10 |
| Total | 60 | 60 | 60 | 67 | 60 |

NOTES:

All units are presented in gallons.

* A 10% of sodium permanganate solution was injected during this event .

** A 5% of sodium permanganate solution was injected during this event .

Table 4 (Continued) - Summary of Sodium Permanganate Manual Injection Events, Former Binghamton Plastics, Binghamton, New York

| Well ID No. | Injection Date | | | | |
|-------------|----------------------|-------------|-------------|--------------|-------------|
| | 3/18/2015-3/19/2015* | 6/26/2015 * | 8/27/2015 * | 12/17/2015 * | 3/17/2016 * |
| MW-8 | 14.5 | 10 | 10 | 10 | 10 |
| MW-9 | 10 | 13 | 10 | 10 | 12 |
| MW-10 | 10 | 11 | 10 | 10 | 12 |
| MW-11 | 2 | 2 | 10 | 10 | 8 |
| MW-16 | 13.5 | 17 | 10 | 10 | 10 |
| MW-17 | 10 | 7 | 10 | 10 | 8 |
| Total | 60 | 60 | 60 | 60 | 60 |

| Well ID No. | Injection Date | | | | |
|-------------|----------------|-------------|-------------|-------------|-------------|
| | 6/23/2016 * | 9/29/2016 * | 1/10/2017 * | 3/22/2017 * | 6/21/2017 * |
| MW-8 | 12 | 10 | 10 | 10 | 10 |
| MW-9 | 10 | 10 | 10 | 10 | 10 |
| MW-10 | 10 | 10 | 10 | 10 | 10 |
| MW-11 | 6 | 10 | 10 | 10 | 10 |
| MW-16 | 12 | 10 | 10 | 10 | 10 |
| MW-17 | 10 | 10 | 10 | 10 | 10 |
| Total | 60 | 60 | 60 | 60 | 60 |

| Well ID No. | Injection Date | | | | |
|-------------|----------------|--------------|-------------|-------------|-------------|
| | 9/18/2017 * | 12/11/2017 * | 3/22/2018 * | 6/20/2018 * | 9/21/2018 * |
| MW-8 | 10 | 10 | 10 | 10 | 12.5 |
| MW-9 | 10 | 10 | 10 | 10 | 12.5 |
| MW-10 | 10 | 10 | 10 | 10 | 7.5 |
| MW-11 | 10 | 10 | 10 | 10 | 2.5 |
| MW-16 | 10 | 10 | 10 | 10 | 12.5 |
| MW-17 | 10 | 10 | 10 | 10 | 12.5 |
| Total | 60 | 60 | 60 | 60 | 60 |

| Well ID No. | Injection Date | | | | |
|-------------|----------------|--|--|--|--|
| | 12/20/2018 * | | | | |
| MW-8 | 10 | | | | |
| MW-9 | 10 | | | | |
| MW-10 | 10 | | | | |
| MW-11 | 10 | | | | |
| MW-16 | 10 | | | | |
| MW-17 | 10 | | | | |
| Total | 60 | | | | |

NOTES:

All units are presented in gallons.

* A 10% of sodium permanganate solution was injected during this event .

** A 5% of sodium permanganate solution was injected during this event .

Table 5 - Groundwater Analytical Data - March 2018, Former Binghamton Plastics, Binghamton, New York

| Sample ID | | MW-8 | MW-9 | MW-10 | MW-16 | DUP-032217 |
|--------------------------|--------|--------------|--------------|--------------|--------------|--------------|
| Laboratory ID | | R1802551-004 | R1802551-006 | R1802551-002 | R1802551-005 | R1802551-009 |
| Date Sampled | NYSDEC | 3/22/2018 | 3/22/2018 | 3/20/2018 | 3/22/2018 | 3/22/2018 |
| Units | GWQS | µg/l | µg/l | µg/l | µg/l | µg/l |
| 1,1-Dichloroethane | 5 | 2.2 | 0.20 U | 0.72 J | 7.7 | 7.3 |
| 1,1-Dichloroethene | 5 | 0.57 U | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| cis-1,2-Dichloroethene | 5 | 67 | 0.30 U | 2.2 | 15 | 14 |
| trans-1,2-Dichloroethene | 5 | 0.33 J | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| Tetrachloroethene | 5 | 0.30 U | 0.30 U | 0.52 J | 0.30 U | 0.30 U |
| 1,1,1-Trichloroethane | 5 | 1.9 | 0.36 U | 0.54 J | 2.8 | 2.5 |
| Trichloroethene | 5 | 50 | 5.9 | 5.0 | 2.4 | 2.3 |
| Vinyl Chloride | 2 | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |

| Sample ID | | MW-17 | EB-032018 | EB-032218 | TRIP BLANK |
|--------------------------|--------|--------------|--------------|--------------|--------------|
| Laboratory ID | | R1802551-003 | R1802551-007 | R1802551-008 | R1802551-001 |
| Date Sampled | NYSDEC | 3/22/2018 | 3/20/2018 | 3/22/2018 | 3/20/2018 |
| Units | GWQS | µg/l | µg/l | µg/l | µg/l |
| 1,1-Dichloroethane | 5 | 2.8 | 0.20 U | 0.20 U | 0.20 U |
| 1,1-Dichloroethene | 5 | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| cis-1,2-Dichloroethene | 5 | 0.30 U | 0.30 U | 0.30 U | 0.30 U |
| trans-1,2-Dichloroethene | 5 | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| Tetrachloroethene | 5 | 0.30 U | 0.30 U | 0.30 U | 0.30 U |
| 1,1,1-Trichloroethane | 5 | 0.53 J | 0.36 U | 0.36 U | 0.36 U |
| Trichloroethene | 5 | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| Vinyl Chloride | 2 | 0.32 U | 0.32 U | 0.32 U | 0.32 U |

Notes:

J = Estimated value

µg/l = micrograms per liter

Bold = concentration exceeds NYSDEC GWQS

U = Compound analyzed for but not detected above method reporting limit given

"DUP" indicates the sample is a duplicate sample of that sample immediately preceding the duplicate sample on this table

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"EB" indicates the sample is an equipment blank sample

Table 6 - Groundwater Analytical Data - September 2018, Former Binghamton Plastics, Binghamton, New York

| Sample ID | | TMP-A | MW-8 | DUP-092018 | MW-9 | MW-10 | MW-11 |
|--------------------------|--------|--------------|--------------|--------------|--------------|--------------|--------------|
| Laboratory ID | | R1809120-007 | R1809120-009 | R1809120-012 | R1809120-008 | R1809120-002 | R1809120-010 |
| Date Sampled | NYSDEC | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1-Dichloroethane | 5 | 1.0 U | 2.1 | 2.0 | 1.0 U | 0.79 J | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 11 | 15 | 1.0 U | 2.6 | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.87 J | 1.0 U |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 0.62 J | 0.51 J | 0.42 J | 1.3 | 1.0 U |
| Trichloroethene | 5 | 1.0 U | 8.7 | 9.7 | 17 | 10 | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

| Sample ID | | MW-13 | MW-16 | MW-17 | DMW-3 | FB-092018 | TRIP BLANK |
|--------------------------|--------|--------------|--------------|--------------|--------------|--------------|--------------|
| Laboratory ID | | R1809120-003 | R1809120-006 | R1809120-005 | R1809120-004 | R1809120-011 | R1809120-001 |
| Date Sampled | NYSDEC | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 | 9/20/2018 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 7.1 | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 1.5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.0 U | 160 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.5 | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 1.0 U | 1.6 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

Notes:

J = Estimated value

µg/l = micrograms per liter

U = Compound analyzed for but not detected above method reporting limit given

"DUP" indicates the sample is a duplicate sample of that sample immediately preceding the duplicate sample on this table

Bold = concentration exceeds NYSDEC GWQS

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"FB" indicates the sample is an equipment blank sample

Table 7 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

| Sample Location Units: | Sampling Date | cis-1,2-Dichloroethene µg/l | trans-1,2-Dichloroethene µg/l | Tetrachloroethene µg/l | Trichloroethene µg/l | Vinyl Chloride µg/l |
|------------------------|---------------|-----------------------------|-------------------------------|------------------------|----------------------|---------------------|
| DMW-1 | 2/8/1999 | 1000 | < 180 | < 360 | 8200 | 71 |
| DMW-3 | 12/10/1998 | <2.5 | <2.5 | <0.5 | 1.1 J | <10 |
| | 9/18/2001 | < 0.5 | < 0.5 | < 0.5 | 0.5 J | < 0.5 |
| | 4/1/2002 | 0.03 J | < 0.5 | < 0.5 | 0.3 J | < 0.5 |
| | 9/19/2002 | 0.2 J | <0.5 | 0.07 J | 0.3 J | <0.5 |
| | 3/28/2003 | <0.5 | <0.5 | 0.2 J | 0.1 J | <0.5 |
| | 6/19/2003 | 0.8 | <0.5 | 0.3 J | 0.8 | <0.5 |
| | 9/16/2003 | <0.5 | <0.5 | 0.3 J | 0.08 J | <0.5 |
| | 1/6/2004 | <0.5 | 0.091 J | 0.31 J | 0.16 J | <0.5 |
| | 4/6/2004 | 0.2 J | <0.5 | 0.25 J | 0.15 J | <0.5 |
| | 6/24/2004 | <0.5 | <0.5 | 0.17 | <0.5 | <0.5 |
| | 9/20/2004 | <0.5 | <0.5 | 0.23 J | 0.13 J | <0.5 |
| | 3/23/2005 | <0.5 | <0.5 | <0.5 | 0.13J | <0.5 |
| | 9/27/2005 | <2 | <2 | <1 | <1 | <2 |
| | 3/7/2006 | <5 | <5 | 0.43J | <5 | <5 |
| | 5/25/2006 | <5 | <5 | <5 | <5 | <5 |
| | 9/19/2006 | <5 | <5 | <5 | <5 | <5 |
| | 4/2/2007 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 8/28/2007 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/15/2007 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/24/2008 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 7/22/2008 | <5.0 | <5.0 | <5.0 | 0.88 J | <5.0 |
| | 10/7/2008 | <5.0 | <5.0 | <5.0 | 0.40 J | <5.0 |
| | 12/2/2008 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/11/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/9/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/15/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/9/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/9/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/21/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 9/21/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 12/14/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/21/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 10/27/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/14/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/18/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/6/2013 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/20/2014 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/15/2016 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/14/2017 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/20/2018 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| DMW-4 | 12/9/1998 | < 2.5 | < 2.5 | < 5 | 1.2J | < 10 |
| TMP-A | 3/22/2005 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/27/2005 | <2 | <2 | <1 | <2 | <2 |
| | 3/7/2006 | <5 | <5 | <5 | <5 | <5 |
| | 5/25/2006 | <5 | <5 | <5 | <5 | <5 |
| | 9/19/2006 | <5 | <5 | <5 | <5 | <5 |
| | 4/2/2007 | <5 | <5 | <5 | <5 | <5 |
| | 7/23/2008 | <5 | <5 | <5 | <5 | <5 |
| | 10/7/2008 | <5 | <5 | <5 | <5 | <5 |
| | 3/9/2009 | <5 | <5 | <5 | <5 | <5 |
| | 6/9/2009 | <5 | <5 | <5 | <5 | <5 |
| | 9/16/2009 | <5 | <5 | <5 | <5 | <5 |
| | 3/8/2010 | <5 | <5 | <5 | <5 | <5 |
| | 10/27/2011 | <5 | <5 | <5 | <5 | <5 |
| | 3/13/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/18/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/11/2013 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/5/2013 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 9/20/2014 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/15/2016 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/14/2017 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/20/2018 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-2 | 12/10/1998 | 7.9 | < 2.5 | 1.3 J | 86 | < 10 |
| MW-5 | 12/10/1998 | 480 | 11 | 1 | 17,000 | 20 |
| | 9/18/2001 | 370 J | < 500 | <500 | 23,000 | < 500 |
| | 4/1/2002 | 0.3 J | < 0.5 | 0.06 J | 48 | < 0.5 |
| MW-6 | 12/9/1998 | < 2.5 | < 2.5 | < 5 | < 5 | < 10 |
| MW-7 | 12/8/1998 | < 2.5 | < 2.5 | < 5 | < 5 | < 10 |

See notes on last page.

Table 7 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

| Sample Location Units: | Sampling Date | cis-1,2-Dichloroethene µg/l | trans-1,2-Dichloroethene µg/l | Tetrachloroethene µg/l | Trichloroethene µg/l | Vinyl Chloride µg/l |
|------------------------|---------------|-----------------------------|-------------------------------|------------------------|----------------------|---------------------|
| MW-8 | 12/10/1998 | 0.25 | < 5 | < 0.01 | 0.35 | <20 |
| | 9/18/2001 | 650 | < 25 | < 25 | 100 | 44 |
| | 4/1/2002 | 170 | 2 | 6 | 230 | 6 |
| | 9/18/2002 | 240 | 3 J | <6 | 560 | <6 |
| | 3/28/2003 | 370 | 4 | 0.4 J | 420 | 16 |
| | 6/19/2003 | 1,000 | 19 | <13 | 810 | 36 |
| | 9/16/2003 | 960 | 14 J | <31 | 250 | 240 |
| | 1/6/2004 | 670 | 7.3 J | <18 | 500 | 7.7 J |
| | 4/6/2004 | 1,900 | 12 J | <50 | 420 | 300 |
| | 6/24/2004 | 2,500 | 27 | 83 | 170 | 430 |
| | 9/20/2004 | 6,200 | 75 | <210 | 380 | 740 |
| | 3/23/2005 | 4,000 | 44 J | <0.5 | 930 | 490 |
| | 6/14/2005 | <2 | <2 | <1 | <1 | <2 |
| | 9/27/2005 | <2 | <2 | <1 | <1 | <2 |
| | 3/7/2006 | <50 | <50 | <50 | <50 | <50 |
| | 4/2/2007 | 110 | 0.69J | <5.0 | 360D | <5.0 |
| | 10/15/2007 | 640 D | 9.8 J | <13 | 2700 D | 66 |
| | 3/24/2008 | 170 | 3.3 J | <13 | 790 D | 4.2 J |
| | 7/22/2008 | 900 | 14 J | <100 | 3400 | 120 |
| | 10/7/2008 | 640 | 18 J | <100 | 3200 | 82 J |
| | 12/2/2008 | 440 | 6.4 J | <25 | 2200 D | 3.6 J |
| | 3/10/2009 | 450 | <100 | <100 | 2200 | 38 J |
| | 6/9/2009 | 680 | 14 J | <50 | 5600 D | 53 |
| | 9/14/2009 | NS | NS | NS | NS | NS |
| | 12/8/2009 | NS | NS | NS | NS | NS |
| | 3/8/2010 | NS | NS | NS | NS | NS |
| | 6/21/2010 | NS | NS | NS | NS | NS |
| | 9/20/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/15/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/23/2011 | 100 | 0.43 J | <5.0 | 940 D | 3.9 J |
| | 10/27/2011 | 330 D | 1.6 J | <5.0 | 2700 D | 21 |
| | 3/13/2012 | 290 | 3.2 J | <50 | 1800 | 32 J |
| | 9/17/2012 | 360 | <50 | <50 | 1000 | 33 J |
| | 3/11/2013 | 210 | 11 J | <50 | 1200 | 5.3 J |
| | 9/2/2013 | 1.7 J | <5.0 | <5.0 | 16 | <5.0 |
| | 3/17/2014 | 0.85 J | <5.0 | <5.0 | 12 | <5.0 |
| 9/20/2014 | 0.67 J | <5.0 | <5.0 | 3.9 J | <5.0 | |
| 3/18/2015 | 0.75 J | <5.0 | <5.0 | 6.4 | <5.0 | |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/17/2016 | 9.1 | <1.0 | <1.0 | 27 | <1.0 | |
| 9/15/2016 | 71 | <1.0 | <1.0 | 120 | <1.0 | |
| 3/22/2017 | 29 | <1.0 | <1.0 | 26 | <1.0 | |
| 9/14/2017 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 3/22/2018 | 67 | 0.33 J | <1.0 | <1.0 | <1.0 | |
| 9/20/2018 | 11 (15) | <1.0 | <1.0 (<1.0) | <1.0 (<1.0) | 8.7 (9.7) | <1.0 (<1.0) |
| MW-9 | 12/10/1998 | 7.3 | < 2.5 | 1.2J | 77 | < 10 |
| | 4/1/2002 | 0.6 | < 0.5 | 0.2 J | 20 | < 0.5 |
| | 9/18/2002 | 7 | 0.08 J | 1 | 57 J | 0.9 J |
| | 3/28/2003 | 1 | <0.5 | 0.4 J | 16 | <0.5 |
| | 6/19/2003 | 3 | 0.04 J | 0.5 | 26 | 0.09 J |
| | 9/16/2003 | 4.1 | <1.3 | 0.61 J | 40 | <1.3 |
| | 1/6/2004 | 2.4 | 0.083 J | 0.48 J | 23 | <0.5 |
| | 4/6/2004 | 0.8 J | <1 | 0.61 J | 30 | <1 |
| | 6/24/2004 | 4.7 | <0.5 | 0.53 | 27 | 0.52 |
| | 9/20/2004 | 6.2 | <2.0 | 0.79 J | 57 | <2.0 |
| | 3/23/2005 | 0.78 | <0.5 | 0.23 J | 17 | <0.5 |
| | 9/27/2005 | 5.5 | <2 | <2 | 46 | <2 |
| | 3/7/2006 | <5 | <5 | <5 | <5 | <5 |
| | 4/2/2007 | 0.85J | <5.0 | <5.0 | 24 | <5.0 |
| | 8/28/2007 | 8.4 | <5.0 | 0.88 J | 55 | 0.67 J |
| | 10/15/2007 | 10 | <5.0 | 0.81 J | 55 | <5.0 |
| | 3/24/2008 | 0.44 J | <5.0 | <5.0 | 19 | <5.0 |
| | 7/21/2008 | 12 | <5.0 | 0.55 J | 45 | 0.55 J |
| | 10/8/2008 | 7.1 | <5.0 | 0.59 J | 49 | <5.0 |
| | 12/2/2008 | 5.8 | <5.0 | 0.47 J | 49 | <5.0 |
| | 3/10/2009 | 2.1 J | <5.0 | <5.0 | 24 | <5.0 |
| | 6/10/2009 | 1.4 J | <5.0 | <5.0 | 32 | <5.0 |
| | 9/16/2009 | 1.9 J | <5.0 | 0.83 J | 24 | <5.0 |
| | 12/8/2009 | 2.2 J | <5.0 | 0.43 J | 32 | <5.0 |
| | 3/8/2010 | 0.78 J | <5.0 | <5.0 | 16 | <5.0 |
| | 6/21/2010 | 1.60 J | <5.0 | <5.0 | 37 | <5.0 |
| | 9/20/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/16/2010 | <5.0 | <5.0 | <5.0 | 3.6 J | <5.0 |
| 3/23/2011 | <5.0 | <5.0 | <5.0 | 14 | <5.0 | |
| 10/26/2011 | 0.76 J | <5.0 | 0.38 J | 34 | <5.0 | |
| 3/13/2012 | 0.21 J | <5.0 | <5.0 | 17 | <5.0 | |
| 9/18/2012 | 1.1 J | <5.0 | 0.39 J | 39 | <5.0 | |
| 3/11/2013 | <5.0 | <5.0 | <5.0 | 14 | <5.0 | |
| 9/5/2013 | 0.94 J | <5.0 | 0.31 J | 28 | <5.0 | |
| 3/17/2014 | 0.41 J | <5.0 | <5.0 | 14 | <5.0 | |
| 9/21/2014 | <5.0 | <5.0 | <5.0 | 22 | <5.0 | |
| 3/19/2015 | 0.92 J | <5.0 | <5.0 | 13 | <5.0 | |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | 4.0 J | <5.0 | |
| 3/17/2016 | 0.31 J | <1.0 | <1.0 | 10 | <1.0 | |
| 9/15/2016 | <1.0 (<1.0) | <1.0 (<1.0) | <1.0 (<1.0) | 0.95 J (0.91 J) | <1.0 (<1.0) | |
| 3/21/2017 | <1.0 | <1.0 | <1.0 | 7.1 | <1.0 | |
| 9/14/2017 | 0.92 J | <1.0 | 0.30 J | 21 | <1.0 | |
| 3/22/2018 | <1.0 | <1.0 | <1.0 | 5.9 | <1.0 | |
| 9/20/2018 | <1.0 | <1.0 | <1.0 | 17 | <1.0 | |

See notes on last page.

Table 7 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

| Sample Location Units: | Sampling Date | cis-1,2-Dichloroethene µg/l | trans-1,2-Dichloroethene µg/l | Tetrachloroethene µg/l | Trichloroethene µg/l | Vinyl Chloride µg/l |
|------------------------|---------------|-----------------------------|-------------------------------|------------------------|----------------------|---------------------|
| MW-10 | 12/10/1998 | 18 | < 2.5 | 54 | 64 | 2.3 J |
| | 9/18/2001 | 10 | < 1.4 | 2 | 21 | 18 |
| | 4/1/2002 | 11 | 0.3 J | 1 | 16 | 2 |
| | 9/18/2002 | 14 | 0.4 J | 4 | 53 J | 21 |
| | 3/28/2003 | 11 | 0.2 J | 2 | 25 | 2 |
| | 6/19/2003 | 13 | 0.5 J | 3 | 32 | 9 |
| | 9/16/2003 | 15 | 0.39 J | 2.4 | 42 | 12 |
| | 1/6/2004 | 4.3 | 0.26 J | 1.6 | 13 | 0.43 J |
| | 4/6/2004 | 4.7 | <0.5 | 0.89 | 13 | 0.38 J |
| | 6/24/2004 | 16 | 0.65 | 2.6 | 45 | 8.6 |
| | 9/20/2004 | 3.4 | 0.15 J | 2.7 | 16 | 0.9 |
| | 3/23/2005 | 3.8 | 0.11 J | 1.1 | 12 | 0.57 |
| | 9/27/2005 | 13 | <2 | 3 | 50 | 6.6 |
| | 3/7/2006 | 9.3 | <5 | 1.6J | 27 | 2.5J |
| | 9/19/2006 | 17 | 0.48J | 2.2J | 32 | 5.9 |
| | 8/28/2007 | 12 | 0.33 J | 2.2 J | 31 | 5.9 |
| | 10/15/2007 | 4.8 J | <5.0 | 2.1 J | 16 | 1.7 J |
| | 3/24/2008 | 3.9 J | <5.0 | 0.53 J | 6.6 | <5.0 |
| | 7/21/2008 | 3.7 J | <5.0 | 0.45 J | 5.3 | 0.72 J |
| | 10/8/2008 | 12 | 0.26 J | 1.4 J | 25 | 5.3 |
| | 12/2/2008 | 4.4 J | <5.0 | 1.2 J | 9.4 | <5.0 |
| | 3/10/2009 | 4.3 J | <5.0 | 0.77 J | 9.2 | <5.0 |
| | 6/8/2009 | 15 | <5.0 | 1.6 J | 36 | 2.4 J |
| | 9/14/2009 | 18 | <5.0 | 2.0 J | 37 | 4.8 J |
| | 12/9/2009 | 13 | <5.0 | 1.3 J | 23 | 1.1 J |
| | 3/8/2010 | 5.3 | <5.0 | 0.71 J | 9.7 | <5.0 |
| | 6/22/2010 | 19 | 0.29 J | 1.6 J | 37 | 3.5 J |
| | 9/21/2010 | 18 | 0.32 J | 1.8 J | 33 | 4.5 J |
| | 12/15/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/23/2011 | 86 | <5.0 | 0.67 J | 180 | 1.8 J |
| | 10/26/2011 | 11 | 0.21 J | 1.7 J | 28 | 2.2 J |
| | 3/13/2012 | 6 | <5.0 | 0.81 J | 18 | 0.46 J |
| | 9/17/2012 | 14 | <5.0 | 1.8 J | 40 | 2.7 J |
| | 3/11/2013 | 7.9 | <5.0 | 0.72 J | 18 | 0.49 J |
| | 9/2/2013 | 11 | <5.0 | 1.7 J | 32 | 1.1 J |
| | 3/17/2014 | 3.4 J | <5.0 | 0.63 J | 7.3 | <5.0 |
| | 9/21/2014 | 8.9 | <5.0 | 1.4 J | 29 | 0.69 J |
| | 3/18/2015 | 2.1 J | <5.0 | 0.66 J | 6.2 | <5.0 |
| | 9/23/2015 | 3.2 J (3.1 J) | <5.0 (<5.0) | 1.5 J (1.3 J) | 18 (17) | <5.0 (<5.0) |
| | 3/17/2016 | 2.9 | <1.0 | 0.76 J | 8.2 | <1.0 |
| 9/15/2016 | 6.3 | <1.0 | 1.6 | 28 | 0.36 J | |
| 3/21/2017 | 2.6 | <1.0 | 0.70 J | 5.0 | <1.0 | |
| 9/14/2017 | 5.1 (4.9) | <1.0 (<1.0) | 1.3 (1.4) | 21 (21) | 0.38 J (<1.0) | |
| 3/20/2018 | 2.2 | <1.0 | 0.52 J | 5.0 | <1.0 | |
| 9/20/2018 | 2.6 | <1.0 | 0.87 J | 10 | <1.0 | |
| MW-11 | 12/9/1998 | 1,100 | 11 | < 5 | 1,400 | 140 |
| | 9/18/2001 | 850 | < 31 | <31 | 700 | 77 |
| | 4/1/2002 | 1,100 | 12 | <50 | 1,500 | 23 |
| | 9/19/2002 | 1,600 | 12 J | <25 | 2,100 | 82 |
| | 3/28/2003 | 1,200 | 11 | 0.2 J | 2,400 | 58 |
| | 6/19/2003 | 1,300 | 10 J | <25 | 2,500 | 24 J |
| | 9/16/2003 | 1,700 | 13 J | <83 | 2,500 | 170 |
| | 1/6/2004 | 1,200 | 31 J | <53 | 1,500 | 28 J |
| | 4/6/2004 | 1,700 | 17 | <83 | 2,300 | 6.8 |
| | 6/24/2004 | 1,600 | 18 | <63 | 1,900 | 29 |
| | 9/20/2004 | 2,300 D | 26 DJ | <63 | 2,200 D | 58 DJ |
| | 3/23/2005 | 1,500 D | 21 | <0.5 | 1,300 D | 7.8 |
| | 6/14/2005 | <2 | <2 | <1 | <1 | <2 |
| | 9/27/2005 | <2 | <2 | <1 | <1 | <2 |
| | 3/7/2006 | <500 | <500 | <500 | <500 | <500 |
| | 10/15/2007 | <5.0 | <5.0 | <5.0 | <5.0 | < 5.0 |
| | 3/24/2008 | 130 | <25 | <25 | 520 | 5.2 J |
| | 7/22/2008 | 1900 | 15 J | <100 | 2900 | 140 |
| | 10/7/2008 | NS | NS | NS | NS | NS |
| | 12/2/2008 | NS | NS | NS | NS | NS |
| | 3/11/2009 | 990 | 9.1 J | <25 | 3200 D | 67 |
| | 6/8/2009 | NS | NS | NS | NS | NS |
| | 9/14/2009 | NS | NS | NS | NS | NS |
| | 12/8/2009 | NS | NS | NS | NS | NS |
| | 3/9/2010 | NS | NS | NS | NS | NS |
| | 6/21/2010 | NS | NS | NS | NS | NS |
| | 9/20/2010 | NS | NS | NS | NS | NS |
| | 12/16/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/23/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/27/2011 | <5.0 | <5.0 | <5.0 | 0.57 J | <5.0 |
| | 3/14/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/17/2012 | <5.0 | <5.0 | <5.0 | 0.62 J | <5.0 |
| | 3/11/2013 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 9/2/2013 | 1.2 J | <5.0 | <5.0 | 4.3 J | <5.0 | |
| 3/18/2014 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/20/2014 | <25 | <25 | <25 | <25 | <25 | |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/15/2016 | <10 | <10 | <10 | <10 | <10 | |
| 9/14/2017 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/20/2018 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |

See notes on last page.

Table 7 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

| Sample Location Units: | Sampling Date | cis-1,2-Dichloroethene µg/l | trans-1,2-Dichloroethene µg/l | Tetrachloroethene µg/l | Trichloroethene µg/l | Vinyl Chloride µg/l |
|------------------------|---------------|-----------------------------|-------------------------------|------------------------|----------------------|---------------------|
| MW-12 | 12/7/1998 | < 2.5 | < 2.5 | < 5 | < 5 | < 10 |
| MW-13 | 12/9/1998 | < 2.5 | < 2.5 | < 5 | < 5 | < 10 |
| | 3/24/2008 | NS | NS | NS | NS | NS |
| | 7/23/2008 | NS | NS | NS | NS | NS |
| | 10/9/2008 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/2/2008 | <5.0 | <5.0 | <5.0 | 0.96 J | <5.0 |
| | 3/9/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/10/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/15/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/7/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/9/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/22/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/21/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/16/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/23/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/26/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/14/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/18/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/6/2013 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/20/2014 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 9/15/2016 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/14/2017 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/20/2018 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| MW-14 | 12/9/1998 | < 2.5 | < 2.5 | < 5 | < 5 | < 10 |
| | 9/18/2001 | < 0.5 | < 0.5 | < 0.5 | 0.2J | < 0.5 |
| | 3/28/2003 | <0.5 | <0.5 | 0.08 J | <0.5 | <0.5 |
| | 6/19/2003 | <0.5 | <0.5 | 0.3 J | 0.04 J | <0.5 |
| | 9/16/2003 | <0.5 | <0.5 | 0.087 J | <0.5 | <0.5 |
| | 1/6/2004 | <0.5 | <0.5 | <0.5 | 0.064 J | <0.5 |
| | 4/6/2004 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/24/2004 | 2.1 | <0.5 | 0.27 J | 6.5 | <0.5 |
| | 9/20/2004 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/23/2005 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/7/2006 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 5/25/2006 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/19/2006 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 4/2/2007 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 8/28/2007 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/15/2007 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/24/2008 | <5.0 | <5.0 | <5.0 | 0.62 J | <5.0 |
| | 7/23/2008 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/7/2008 | <5.0 | <5.0 | <5.0 | 0.32 J | <5.0 |
| | 12/3/2008 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/11/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/10/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/15/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/9/2009 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/9/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/22/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/21/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 12/14/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/21/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 10/26/2011 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/13/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/18/2012 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/6/2013 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/20/2014 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| MW-15 | 12/10/1998 | 960 | 11 | 14 | 6,900 | 23 |
| | 9/18/2001 | 790 | < 84 | < 84 | 4,000 | 68 J |
| | 4/1/2002 | 510 | 10 | 17 | 3,400 | 34 |

See notes on last page.

Table 7 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

| Sample Location Units: | Sampling Date | cis-1,2-Dichloroethene µg/l | trans-1,2-Dichloroethene µg/l | Tetrachloroethene µg/l | Trichloroethene µg/l | Vinyl Chloride µg/l |
|------------------------|---------------|-----------------------------|-------------------------------|------------------------|----------------------|---------------------|
| MW-16 | 9/19/2002 | 1,500 | 11 J | <32 | 340 | 38 |
| | 3/28/2003 | 440 | 7 | 0.2 J | 15 | 59 |
| | 6/19/2003 | 400 | 12 | 0.3 J | 48 | 58 |
| | 9/16/2003 | 87 | 4.8 | 0.323 J | 9 | 24 |
| | 1/6/2004 | 68 | 3.3 | <2.5 | 6.6 | 20 |
| | 4/6/2004 | 22 | 1.1 | 0.23 J | 2.6 | 5.6 |
| | 6/24/2004 | 6.8 | 2 | 0.23 J | 4.1 | 2.3 |
| | 9/20/2004 | 78 D | 5.2 D | <2.5 | 17 | 27 D |
| | 3/23/2005 | 9.3 | 5.4 | <0.5 | 0.95 | 4.4 |
| | 9/25/2005 | 12 | 5.4 | <1 | 6.2 | 11 |
| | 3/7/2006 | <500 | <500 | <500 | <500 | <500 |
| | 10/15/2007 | 240 D | 13 | 0.64 J | 110 | 140 |
| | 3/24/2008 | NS | NS | NS | NS | NS |
| | 7/22/2008 | 240 | 8.7 J | <13 | 69 | 87 |
| | 10/8/2008 | 710 | 13 J | 1.1 J | 330 | 180 |
| | 12/2/2008 | 450 D | 10 | 0.94 J | 320 | 88 |
| | 3/10/2009 | 270 | 4.6 J | 1.1 J | 280 | 42 |
| | 6/10/2009 | 650 | 10 J | <25 | 480 | 76 |
| | 9/15/2009 | <5 | <5 | 0.55 J | <5 | <5 |
| | 12/8/2009 | NS | NS | NS | NS | NS |
| | 3/9/2010 | NS | NS | NS | NS | NS |
| | 6/22/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/20/2010 | NS | NS | NS | NS | NS |
| | 12/16/2010 | 16 | <5.0 | <5.0 | 38 | <5.0 |
| | 3/23/2011 | 4.1 J | <5.0 | 0.70 J | 7.4 | <5.0 |
| | 10/27/2011 | 140 | 5.6 | 1.8 J | 240 D | <5.0 |
| | 3/13/2012 | 94 | 2.7 J | 0.44 J | 96 | 10 |
| | 9/17/2012 | 140 | 2.0 J | 0.71 J | 160 | 11 |
| | 3/11/2013 | 96 | 7.5 | 0.34 J | 38 | 1.9 J |
| | 9/5/2013 | 170 | 10 | 0.50 J | 72 | 9.3 |
| | 3/17/2014 | 49 | 1.4 J | <5.0 | 10 | 14 |
| | 9/21/2014 | 17 | <5.0 | 0.43 J | 8.6 | <5.0 |
| | 3/18/2015 | 31 | 0.35 J | <5.0 | 7.1 | 15 |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/17/2016 | 87 (88) | 1.4 (1.7) | 0.89 J (0.70 J) | 24 (24) | 1.2 (0.96 J) | |
| 9/15/2016 | 83 | 0.87 J | 0.61 J | 26 | 4.9 | |
| 3/22/2017 | 30 (40) | <1.0 (<1.0) | <1.0 (<1.0) | 6.1 (7.3) | 8.1 (8.7) | |
| 9/14/2017 | 67 | <1.0 | 0.30 J | 13 | 2.7 | |
| 3/22/2018 | 15 (14) | <1.0 (<1.0) | <1.0 (<1.0) | 2.4 (2.3) | <1.0 (<1.0) | |
| 9/20/2018 | 1.5 | <1.0 | 160 | 1.6 | <1.0 | |
| MW-17 | 9/19/2002 | 1,800 | 18 J | <42 | 2,800 | 38 J |
| | 3/28/2003 | 280 | 11 | 0.3 J | 2 | 180 |
| | 6/19/2003 | 50 | 13 | <6 | 1 | 65 |
| | 9/16/2003 | 4 | 11 | 1.6 J | 0.74 J | 9.1 |
| | 1/6/2004 | 3.3 J | 6.4 | <4.2 | 0.81 J | 2.4 J |
| | 4/6/2004 | 3 J | 6.8 | <5 | 1.6 J | 4.5 J |
| | 6/24/2004 | <4.2 | 9.8 | 2.2 | 1.1 | 1.5 |
| | 9/20/2004 | 3.3 J | 11 | 2.1 J | <5.0 | 6.7 |
| | 3/25/2005 | 7.9 | 7.3 | <0.5 | 0.8 | 5.9 |
| | 9/27/2005 | 150 | 8 | <1 | 71 | 24 |
| | 3/7/2006 | <50 | <50 | <50 | <50 | <50 |
| | 9/19/2006 | 0.33 | 24 | 3.2 | 31 | 17 |
| | 8/28/2007 | 55 | 2.4 J | 0.82 J | 110 | 82 |
| | 10/15/2007 | 37 | 1.5 J | 0.38 J | 73 | 6.6 |
| | 3/24/2008 | 3.0 J | 0.33 J | <5.0 | 1.2 J | 0.93 J |
| | 7/21/2008 | 2.4 J | 0.94 J | <5.0 | 0.66 J | 1.1 J |
| | 10/8/2008 | 16 | 1.6 J | 0.21 J | 35 | 5.7 |
| | 12/2/2008 | 6.6 | 0.46 J | <5.0 | 15 | 1.3 J |
| | 3/10/2009 | 3.7 J | 0.46 J | <5.0 | 4.4 J | 1.9 J |
| | 6/9/2009 | 2.8 J | 0.78 J | <5.0 | 3.5 J | 1.1 J |
| | 9/14/2009 | 38 | 2.5 J | 0.60 J | 110 | 9.1 |
| | 12/8/2009 | 7.4 | 0.61 J | <5.0 | 23 | 2.1 J |
| | 3/9/2010 | 4.5 J | <5.0 | <5.0 | 6.5 | 1.1 J |
| | 6/21/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/20/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/15/2010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/23/2011 | 5.6 | <5.0 | <5.0 | 2.2 J | <5.0 |
| | 10/26/2011 | 87 | 4.2 J | 0.53 J | 65 | 20 |
| | 3/14/2012 | 77 | 3.3 J | 0.27 J | 40 | 18 |
| | 9/17/2012 | 200 | 10 | 0.44 J | 74 | 8.2 |
| | 3/11/2013 | 53 | 2.8 J | <5.0 | 14 | 0.41 J |
| | 9/5/2013 | 84 | 3.6 J | <5.0 | 45 | 1.3 J |
| | 3/17/2014 | 18 | 1.0 J | <5.0 | 3.3 J | <5.0 |
| 9/21/2014 | 10 | <5.0 | <5.0 | 4.3 J | <5.0 | |
| 3/18/2015 | 5.8 (7.8) | <5.0 (<5.0) | <5.0 (<5.0) | 3.5 J (4.6 J) | <5.0 (<5.0) | |
| 9/23/2015 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 3/17/2016 | 3.7 | <1.0 | <1.0 | 2.4 | <1.0 | |
| 9/15/2016 | 1.4 | <1.0 | 0.30 J | 1.7 | <1.0 | |
| 3/21/2017 | 0.78 J | <1.0 | <1.0 | 0.78 J | <1.0 | |
| 9/14/2017 | 0.40 J | <1.0 | <1.0 | 0.61 J | <1.0 | |
| 3/22/2018 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/20/2018 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |

NOTES:

J = Estimated value; compound detected below Detection Limit.

D = Compound identified in an analysis at a secondary dilution factor

= Baseline result

NS=Not sampled

µg/l = Micrograms per liter

< = Not detected above laboratory reporting limit given

Table 8 Indoor Air Sampling Analytical Results - March 2018, Former Binghamton Plastics Site, Binghamton, New York

| Sample ID Sampling Date Laboratory ID Units | NYSDOH Indoor Air Guidance Values (µg/m³) | IA-2 3/21/2018 P1801538-003 | | | | IA-3 3/21/2018 P1801538-005 | | | | IA-5 3/21/2018 P1801538-004 | | | |
|--|---|-----------------------------------|---|-------|---|-----------------------------------|---|-------|---|-----------------------------------|---|-------|---|
| | | ppbv | | µg/m³ | | ppbv | | µg/m³ | | ppbv | | µg/m³ | |
| | | Q | | Q | | Q | | Q | | Q | | Q | |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| Dichlorodifluoromethane (CFC 12) | NA | 0.42 | U | 2.1 | U | 0.45 | U | 2.2 | U | 0.43 | U | 2.1 | U |
| Chloromethane | NA | 0.37 | U | 0.77 | U | 0.31 | U | 0.63 | U | 0.46 | U | 0.95 | U |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | NA | 0.11 | U | 0.77 | U | 0.090 | U | 0.63 | U | 0.14 | U | 0.95 | U |
| Vinyl Chloride | NA | 0.30 | U | 0.77 | U | 0.25 | U | 0.63 | U | 0.37 | U | 0.95 | U |
| 1,3-Butadiene | NA | 0.35 | U | 0.77 | U | 0.28 | U | 0.63 | U | 0.43 | U | 0.95 | U |
| Bromomethane | NA | 0.20 | U | 0.77 | U | 0.16 | U | 0.63 | U | 0.24 | U | 0.95 | U |
| Chloroethane | NA | 0.29 | U | 0.77 | U | 0.24 | U | 0.63 | U | 0.36 | U | 0.95 | U |
| Ethanol | NA | 100 | | 190 | | 100 | | 200 | | 94 | | 180 | |
| Acetonitrile | NA | 0.46 | U | 0.77 | U | 0.38 | U | 0.63 | U | 0.57 | U | 0.95 | U |
| Acrolein | NA | 1.3 | U | 3.1 | U | 1.1 | U | 2.5 | U | 1.7 | U | 3.8 | U |
| Acetone | NA | 480 | D | 1100 | D | 160 | | 370 | | 380 | | 910 | |
| Trichlorofluoromethane | NA | 0.39 | U | 2.2 | U | 0.36 | U | 2.0 | U | 0.35 | U | 2.0 | U |
| 2-Propanol (Isopropyl Alcohol) | NA | 3.8 | | 9.3 | | 4.2 | | 10 | | 3.9 | U | 9.5 | U |
| Acrylonitrile | NA | 0.35 | U | 0.77 | U | 0.29 | U | 0.63 | U | 0.44 | U | 0.95 | U |
| 1,1-Dichloroethene | NA | 0.19 | U | 0.77 | U | 0.16 | U | 0.63 | U | 0.24 | U | 0.95 | U |
| Methylene Chloride | 60 | 33 | | 120 | | 29 | | 100 | | 30 | | 100 | |
| 3-Chloro-1-propene (Allyl Chloride) | NA | 0.24 | U | 0.77 | U | 0.20 | U | 0.63 | U | 0.30 | U | 0.95 | U |
| Trichlorotrifluoroethane | NA | 0.11 | U | 0.82 | U | 0.13 | U | 1.0 | U | 0.12 | U | 0.95 | U |
| Carbon Disulfide | NA | 2.5 | U | 7.7 | U | 2.0 | U | 6.3 | U | 3.1 | U | 9.5 | U |
| trans-1,2-Dichloroethene | NA | 0.19 | U | 0.77 | U | 0.16 | U | 0.63 | U | 0.24 | U | 0.95 | U |
| 1,1-Dichloroethane | NA | 0.19 | U | 0.77 | U | 0.16 | U | 0.63 | U | 0.23 | U | 0.95 | U |
| Methyl tert-Butyl Ether | NA | 0.21 | U | 0.77 | U | 0.17 | U | 0.63 | U | 0.26 | U | 0.95 | U |
| Vinyl Acetate | NA | 2.2 | U | 7.7 | U | 1.8 | U | 6.3 | U | 2.7 | U | 9.5 | U |
| 2-Butanone (MEK) | NA | 2.6 | U | 7.7 | U | 2.1 | U | 6.3 | U | 3.2 | U | 9.5 | U |
| cis-1,2-Dichloroethene | NA | 0.19 | U | 0.77 | U | 0.16 | U | 0.63 | U | 0.24 | U | 0.95 | U |
| n-Hexane | NA | 2.8 | | 9.7 | | 1.1 | | 4.0 | | 2.6 | | 9.2 | |
| Chloroform | NA | 0.16 | U | 0.77 | U | 0.13 | U | 0.63 | U | 0.19 | U | 0.95 | U |
| 1,2-Dichloroethane | NA | 0.19 | U | 0.77 | U | 0.16 | U | 0.63 | U | 0.23 | U | 0.95 | U |
| 1,1,1-Trichloroethane | NA | 0.15 | U | 0.84 | U | 0.24 | U | 1.3 | U | 0.17 | U | 0.95 | U |
| Benzene | NA | 0.28 | U | 0.89 | U | 0.25 | U | 0.81 | U | 0.35 | U | 1.1 | U |
| Carbon Tetrachloride | NA | 0.072 | U | 0.45 | U | 0.063 | U | 0.40 | U | 0.030 | U | 0.19 | U |
| 1,2-Dichloropropane | NA | 0.17 | U | 0.77 | U | 0.14 | U | 0.63 | U | 0.21 | U | 0.95 | U |
| Bromodichloromethane | NA | 0.11 | U | 0.77 | U | 0.094 | U | 0.63 | U | 0.14 | U | 0.95 | U |
| Trichloroethene (TCE) | 5 | 0.71 | | 3.8 | | 0.85 | | 4.5 | | 0.70 | | 3.8 | |
| 1,4-Dioxane | NA | 0.21 | U | 0.77 | U | 0.17 | U | 0.63 | U | 0.26 | U | 0.95 | U |
| cis-1,3-Dichloropropene | NA | 0.17 | U | 0.77 | U | 0.14 | U | 0.63 | U | 0.21 | U | 0.95 | U |
| 4-Methyl-2-pentanone | NA | 0.19 | U | 0.77 | U | 0.15 | U | 0.63 | U | 0.23 | U | 0.95 | U |
| trans-1,3-Dichloropropene | NA | 0.17 | U | 0.77 | U | 0.14 | U | 0.63 | U | 0.21 | U | 0.95 | U |
| 1,1,2-Trichloroethane | NA | 0.14 | U | 0.77 | U | 0.12 | U | 0.63 | U | 0.17 | U | 0.95 | U |
| Toluene | NA | 3.0 | | 11 | | 3.8 | | 14 | | 3.8 | | 14 | |
| 2-Hexanone | NA | 0.19 | U | 0.77 | U | 0.15 | U | 0.63 | U | 0.23 | U | 0.95 | U |
| Dibromochloromethane | NA | 0.090 | U | 0.77 | U | 0.074 | U | 0.63 | U | 0.11 | U | 0.95 | U |
| 1,2-Dibromoethane | NA | 0.10 | U | 0.77 | U | 0.082 | U | 0.63 | U | 0.12 | U | 0.95 | U |
| n-Butyl Acetate | NA | 2.5 | | 12 | | 3.8 | | 18 | | 2.1 | | 9.9 | |
| Tetrachloroethene (PCE) | 100 | 2.4 | | 17 | | 1.8 | | 12 | | 2.2 | | 15 | |
| Chlorobenzene | NA | 0.17 | U | 0.77 | U | 0.14 | U | 0.63 | U | 0.21 | U | 0.95 | U |
| Ethylbenzene | NA | 0.51 | U | 2.2 | U | 0.66 | U | 2.9 | U | 0.56 | U | 2.4 | U |
| m,p-Xylenes | NA | 2.1 | | 8.9 | | 2.5 | | 11 | | 2.1 | | 8.9 | |
| Bromoform | NA | 0.074 | U | 0.77 | U | 0.061 | U | 0.63 | U | 0.092 | U | 0.95 | U |
| Styrene | NA | 0.18 | U | 0.77 | U | 0.15 | U | 0.63 | U | 0.22 | U | 0.95 | U |
| o-Xylene | NA | 3.1 | | 13 | | 2.6 | | 11 | | 2.8 | | 12 | |
| n-Nonane | NA | 15 | | 77 | | 11 | | 57 | | 13 | | 68 | |
| 1,1,2,2-Tetrachloroethane | NA | 0.11 | U | 0.77 | U | 0.092 | U | 0.63 | U | 0.14 | U | 0.95 | U |
| Cumene | NA | 5.4 | | 26 | | 4.2 | | 21 | | 4.7 | | 23 | |
| alpha-Pinene | NA | 1.5 | | 8.4 | | 0.80 | | 4.5 | | 1.6 | | 8.9 | |
| 4-Ethyltoluene | NA | 31 | | 150 | | 24 | | 120 | | 28 | | 140 | |
| 1,3,5-Trimethylbenzene | NA | 32 | | 160 | | 25 | | 120 | | 27 | | 130 | |
| 1,2,4-Trimethylbenzene | NA | 62 | D | 310 | D | 49 | D | 240 | D | 53 | D | 260 | D |
| Benzyl Chloride | NA | 0.30 | U | 1.5 | U | 0.24 | U | 1.3 | U | 0.37 | U | 1.9 | U |
| 1,3-Dichlorobenzene | NA | 0.13 | U | 0.77 | U | 0.10 | U | 0.63 | U | 0.16 | U | 0.95 | U |
| 1,4-Dichlorobenzene | NA | 0.13 | U | 0.77 | U | 0.10 | U | 0.63 | U | 0.16 | U | 0.95 | U |
| 1,2-Dichlorobenzene | NA | 0.13 | U | 0.77 | U | 0.10 | U | 0.63 | U | 0.16 | U | 0.95 | U |
| d-Limonene | NA | 14 | | 76 | | 11 | | 61 | | 12 | | 68 | |
| 1,2-Dibromo-3-chloropropane | NA | 0.079 | U | 0.77 | U | 0.065 | U | 0.63 | U | 0.098 | U | 0.95 | U |
| 1,2,4-Trichlorobenzene | NA | 0.10 | U | 0.77 | U | 0.085 | U | 0.63 | U | 0.13 | U | 0.95 | U |
| Naphthalene | NA | 0.15 | U | 0.77 | U | 0.12 | U | 0.63 | U | 0.18 | U | 0.95 | U |
| Hexachlorobutadiene | NA | 0.072 | U | 0.77 | U | 0.059 | U | 0.63 | U | 0.089 | U | 0.95 | U |

Notes:

Bold = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

D = Result obtained from sample dilution

Sample AA-1 is an outdoor ambient air sample

Samples analyzed by ALS Environmental of Rochester, NY

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 60

PCE - 100

TCE - 5

Table 8 Indoor Air Sampling Analytical Results - March 2018, Former Binghamton Plastics Site, Binghamton, New York

| Sample ID Sampling Date Laboratory ID Units | NYSDOH Indoor Air Guidance Values (µg/m³) | IA-8 3/21/2018 P1801538-001 | | | | IA-9 3/21/2018 P1801538-002 | | | | AA-1 3/21/2018 P1801538-006 | | | |
|--|---|-----------------------------------|---|-------|---|-----------------------------------|---|-------|---|-----------------------------------|---|-------|---|
| | | ppbv | | µg/m³ | | ppbv | | µg/m³ | | ppbv | | µg/m³ | |
| | | Q | | Q | | Q | | Q | | Q | | Q | |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| Dichlorodifluoromethane (CFC 12) | NA | 0.49 | | 2.4 | | 0.44 | | 2.2 | | 0.33 | | 1.6 | |
| Chloromethane | NA | 0.37 | U | 0.76 | U | 0.36 | U | 0.74 | U | 0.36 | U | 0.74 | U |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | NA | 0.11 | U | 0.76 | U | 0.11 | U | 0.74 | U | 0.11 | U | 0.74 | U |
| Vinyl Chloride | NA | 0.30 | U | 0.76 | U | 0.29 | U | 0.74 | U | 0.29 | U | 0.74 | U |
| 1,3-Butadiene | NA | 0.34 | U | 0.76 | U | 0.33 | U | 0.74 | U | 0.33 | U | 0.74 | U |
| Bromomethane | NA | 0.20 | U | 0.76 | U | 0.19 | U | 0.74 | U | 0.19 | U | 0.74 | U |
| Chloroethane | NA | 0.29 | U | 0.76 | U | 0.28 | U | 0.74 | U | 0.28 | U | 0.74 | U |
| Ethanol | NA | 120 | | 230 | | 110 | | 200 | | 3.9 | U | 7.4 | U |
| Acetonitrile | NA | 0.45 | U | 0.76 | U | 0.44 | U | 0.74 | U | 0.44 | U | 0.74 | U |
| Acrolein | NA | 1.3 | U | 3.0 | U | 1.3 | U | 3.0 | U | 1.3 | U | 3.0 | U |
| Acetone | NA | 390 | D | 920 | D | 420 | D | 1,000 | D | 3.1 | U | 7.4 | U |
| Trichlorofluoromethane | NA | 0.35 | | 2.0 | | 0.35 | | 1.9 | | 0.17 | | 0.95 | |
| 2-Propanol (Isopropyl Alcohol) | NA | 4.4 | | 11 | | 4.5 | | 11 | | 3.0 | U | 7.4 | U |
| Acrylonitrile | NA | 0.35 | U | 0.76 | U | 0.34 | U | 0.74 | U | 0.34 | U | 0.74 | U |
| 1,1-Dichloroethene | NA | 0.19 | U | 0.76 | U | 0.19 | U | 0.74 | U | 0.19 | U | 0.74 | U |
| Methylene Chloride | 60 | 29 | | 99 | | 29 | | 100 | | 0.21 | U | 0.74 | U |
| 3-Chloro-1-propene (Allyl Chloride) | NA | 0.24 | U | 0.76 | U | 0.24 | U | 0.74 | U | 0.24 | U | 0.74 | U |
| Trichlorotrifluoroethane | NA | 0.099 | U | 0.76 | U | 0.10 | U | 0.78 | U | 0.097 | U | 0.74 | U |
| Carbon Disulfide | NA | 2.4 | U | 7.6 | U | 2.4 | U | 7.4 | U | 2.4 | U | 7.4 | U |
| trans-1,2-Dichloroethene | NA | 0.19 | U | 0.76 | U | 0.19 | U | 0.74 | U | 0.19 | U | 0.74 | U |
| 1,1-Dichloroethane | NA | 0.19 | U | 0.76 | U | 0.18 | U | 0.74 | U | 0.18 | U | 0.74 | U |
| Methyl tert-Butyl Ether | NA | 0.21 | U | 0.76 | U | 0.21 | U | 0.74 | U | 0.21 | U | 0.74 | U |
| Vinyl Acetate | NA | 2.2 | U | 7.6 | U | 2.1 | U | 7.4 | U | 2.1 | U | 7.4 | U |
| 2-Butanone (MEK) | NA | 2.6 | U | 7.6 | U | 2.5 | U | 7.4 | U | 2.5 | U | 7.4 | U |
| cis-1,2-Dichloroethene | NA | 0.19 | U | 0.76 | U | 0.19 | U | 0.74 | U | 0.19 | U | 0.74 | U |
| n-Hexane | NA | 2.4 | | 8.4 | | 3.1 | | 11 | | 0.21 | U | 0.74 | U |
| Chloroform | NA | 0.16 | U | 0.76 | U | 0.15 | U | 0.74 | U | 0.15 | U | 0.74 | U |
| 1,2-Dichloroethane | NA | 0.19 | U | 0.76 | U | 0.18 | U | 0.74 | U | 0.18 | U | 0.74 | U |
| 1,1,1-Trichloroethane | NA | 0.14 | U | 0.76 | U | 0.14 | U | 0.77 | U | 0.14 | U | 0.74 | U |
| Benzene | NA | 0.32 | | 1.0 | | 0.33 | | 1.1 | | 0.23 | U | 0.74 | U |
| Carbon Tetrachloride | NA | 0.066 | | 0.41 | | 0.068 | | 0.43 | | 0.055 | | 0.34 | |
| 1,2-Dichloropropane | NA | 0.16 | U | 0.76 | U | 0.16 | U | 0.74 | U | 0.16 | U | 0.74 | U |
| Bromodichloromethane | NA | 0.11 | U | 0.76 | U | 0.11 | U | 0.74 | U | 0.11 | U | 0.74 | U |
| Trichloroethene (TCE) | 5 | 0.83 | | 4.5 | | 0.70 | | 3.8 | | 0.028 | U | 0.15 | U |
| 1,4-Dioxane | NA | 0.21 | U | 0.76 | U | 0.21 | U | 0.74 | U | 0.21 | U | 0.74 | U |
| cis-1,3-Dichloropropene | NA | 0.17 | U | 0.76 | U | 0.16 | U | 0.74 | U | 0.16 | U | 0.74 | U |
| 4-Methyl-2-pentanone | NA | 0.19 | U | 0.76 | U | 0.18 | U | 0.74 | U | 0.18 | U | 0.74 | U |
| trans-1,3-Dichloropropene | NA | 0.17 | U | 0.76 | U | 0.16 | U | 0.74 | U | 0.16 | U | 0.74 | U |
| 1,1,2-Trichloroethane | NA | 0.14 | U | 0.76 | U | 0.14 | U | 0.74 | U | 0.14 | U | 0.74 | U |
| Toluene | NA | 2.6 | | 9.7 | | 4.7 | | 18 | | 0.45 | | 1.7 | |
| 2-Hexanone | NA | 0.19 | U | 0.76 | U | 0.18 | U | 0.74 | U | 0.18 | U | 0.74 | U |
| Dibromochloromethane | NA | 0.089 | U | 0.76 | U | 0.087 | U | 0.74 | U | 0.087 | U | 0.74 | U |
| 1,2-Dibromoethane | NA | 0.099 | U | 0.76 | U | 0.096 | U | 0.74 | U | 0.096 | U | 0.74 | U |
| n-Butyl Acetate | NA | 2.4 | | 11 | | 2.6 | | 12 | | 0.16 | U | 0.74 | U |
| Tetrachloroethene (PCE) | 100 | 2.5 | | 17 | | 2.0 | | 13 | | 0.11 | U | 0.74 | U |
| Chlorobenzene | NA | 0.17 | U | 0.76 | U | 0.16 | U | 0.74 | U | 0.16 | U | 0.74 | U |
| Ethylbenzene | NA | 0.42 | | 1.8 | | 0.69 | | 3.0 | | 0.17 | U | 0.74 | U |
| m,p-Xylenes | NA | 1.7 | | 7.5 | | 2.5 | | 11 | | 0.34 | U | 1.5 | U |
| Bromoform | NA | 0.074 | U | 0.76 | U | 0.072 | U | 0.74 | U | 0.072 | U | 0.74 | U |
| Styrene | NA | 0.18 | U | 0.76 | U | 0.61 | | 2.6 | | 0.17 | U | 0.74 | U |
| o-Xylene | NA | 2.5 | | 11 | | 2.9 | | 12 | | 0.17 | U | 0.74 | U |
| n-Nonane | NA | 13 | | 66 | | 12 | | 64 | | 0.14 | U | 0.74 | U |
| 1,1,2,2-Tetrachloroethane | NA | 0.11 | U | 0.76 | U | 0.11 | U | 0.74 | U | 0.11 | U | 0.74 | U |
| Cumene | NA | 4.2 | | 20 | | 4.4 | | 21 | | 0.15 | U | 0.74 | U |
| alpha-Pinene | NA | 1.8 | | 10 | | 1.6 | | 8.9 | | 0.13 | U | 0.74 | U |
| 4-Ethyltoluene | NA | 26 | | 130 | | 27 | | 130 | | 0.15 | U | 0.74 | U |
| 1,3,5-Trimethylbenzene | NA | 25 | | 120 | | 26 | | 130 | | 0.15 | U | 0.74 | U |
| 1,2,4-Trimethylbenzene | NA | 48 | D | 230 | D | 50 | D | 240 | D | 0.15 | U | 0.74 | U |
| Benzyl Chloride | NA | 0.29 | U | 1.5 | U | 0.29 | U | 1.5 | U | 0.29 | U | 1.5 | U |
| 1,3-Dichlorobenzene | NA | 0.13 | U | 0.76 | U | 0.12 | U | 0.74 | U | 0.12 | U | 0.74 | U |
| 1,4-Dichlorobenzene | NA | 0.13 | U | 0.76 | U | 0.12 | U | 0.74 | U | 0.12 | U | 0.74 | U |
| 1,2-Dichlorobenzene | NA | 0.13 | U | 0.76 | U | 0.12 | U | 0.74 | U | 0.12 | U | 0.74 | U |
| d-Limonene | NA | 11 | | 59 | | 12 | | 66 | | 0.13 | U | 0.74 | U |
| 1,2-Dibromo-3-chloropropane | NA | 0.079 | U | 0.76 | U | 0.077 | U | 0.74 | U | 0.077 | U | 0.74 | U |
| 1,2,4-Trichlorobenzene | NA | 0.10 | U | 0.76 | U | 0.10 | U | 0.74 | U | 0.10 | U | 0.74 | U |
| Naphthalene | NA | 0.15 | U | 0.76 | U | 0.14 | U | 0.74 | U | 0.14 | U | 0.74 | U |
| Hexachlorobutadiene | NA | 0.071 | U | 0.76 | U | 0.069 | U | 0.74 | U | 0.069 | U | 0.74 | U |

Bold = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

D = Result obtained from sample dilution

Sample AA-1 is an outdoor ambient air sample

Samples analyzed by ALS Environmental of Rochester, NY

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 60

PCE - 100

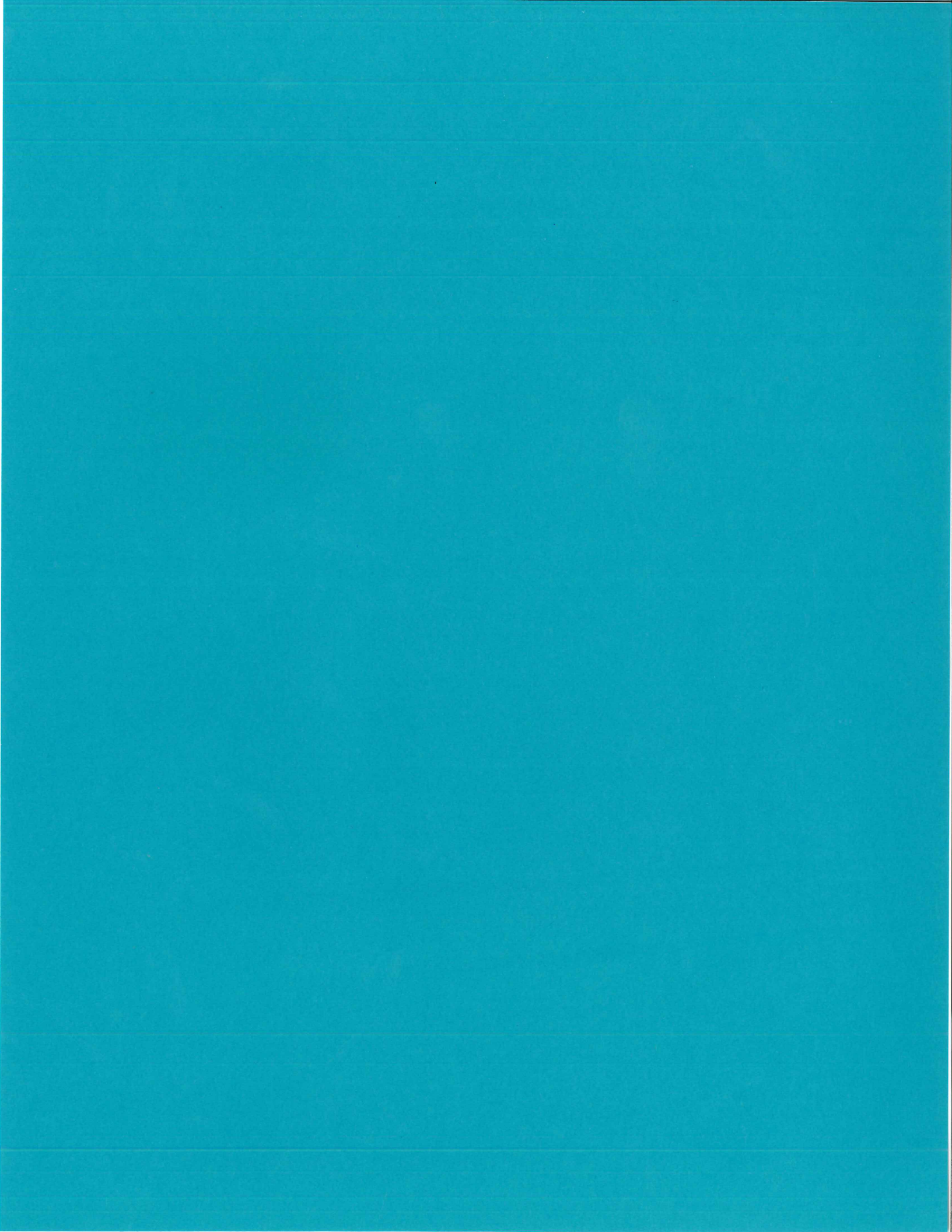
TCE - 5

Table 9 - Proposed 2019 Groundwater Monitoring Matrix, Former Binghamton Plactics, Binghamton, New York

| Implemented Monitoring Matrix in 2018 | | |
|---------------------------------------|---------------------|-----------|
| Well ID | Monitoring Schedule | Analysis |
| DMW-3 | Annual | SSPL VOCs |
| TMP-A | Annual | SSPL VOCs |
| MW-8 | Semiannual | SSPL VOCs |
| MW-9 | Semiannual | SSPL VOCs |
| MW-10 | Semiannual | SSPL VOCs |
| MW-11 | Annual | SSPL VOCs |
| MW-13 | Annual | SSPL VOCs |
| MW-16 | Semiannual | SSPL VOCs |
| MW-17 | Semiannual | SSPL VOCs |

| Proposed Monitoring Matrix to be Implemented in 2019 | | |
|--|---------------------|-----------|
| Well ID | Monitoring Schedule | Analysis |
| DMW-3 | Annual | SSPL VOCs |
| TMP-A | Annual | SSPL VOCs |
| MW-8 | Semiannual | SSPL VOCs |
| MW-9 | Semiannual | SSPL VOCs |
| MW-10 | Semiannual | SSPL VOCs |
| MW-11 | Annual | SSPL VOCs |
| MW-13 | Annual | SSPL VOCs |
| MW-16 | Semiannual | SSPL VOCs |
| MW-17 | Semiannual | SSPL VOCs |

Appendix A



Appendix B



April 12, 2018

Service Request No:R1802551

Ms. Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

Laboratory Results for: Dover-Binghamton

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory March 23, 2018
For your reference, these analyses have been assigned our service request number **R1802551**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
For
Janice Jaeger
Project Manager

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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Verina Consulting Group, LLC
Project: Dover-Binghamton
Sample Matrix: Water

Service Request: R1802551
Date Received: 03/23/2018

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 03/23/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 03/30/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10 **Lab ID: R1802551-002**

| Analyte | Results | Flag | MDL | PQL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 0.54 | J | 0.36 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 0.72 | J | 0.20 | 1.0 | ug/L | 8260C |
| Tetrachloroethene (PCE) | 0.52 | J | 0.30 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 5.0 | | 0.22 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 2.2 | | 0.30 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-17 **Lab ID: R1802551-003**

| Analyte | Results | Flag | MDL | PQL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 0.53 | J | 0.36 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 2.8 | | 0.20 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-8 **Lab ID: R1802551-004**

| Analyte | Results | Flag | MDL | PQL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 1.9 | | 0.36 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 2.2 | | 0.20 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 50 | | 0.22 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 67 | | 0.30 | 1.0 | ug/L | 8260C |
| trans-1,2-Dichloroethene | 0.33 | J | 0.33 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-16 **Lab ID: R1802551-005**

| Analyte | Results | Flag | MDL | PQL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 2.8 | | 0.36 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 7.7 | | 0.20 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 2.4 | | 0.22 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 15 | | 0.30 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-9 **Lab ID: R1802551-006**

| Analyte | Results | Flag | MDL | PQL | Units | Method |
|-----------------------|---------|------|------|-----|-------|--------|
| Trichloroethene (TCE) | 5.9 | | 0.22 | 1.0 | ug/L | 8260C |

CLIENT ID: DUP-032218 **Lab ID: R1802551-009**

| Analyte | Results | Flag | MDL | PQL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 2.5 | | 0.36 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 7.3 | | 0.20 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 2.3 | | 0.22 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 14 | | 0.30 | 1.0 | ug/L | 8260C |



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551

SAMPLE CROSS-REFERENCE

| <u>SAMPLE #</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-----------------|-------------------------|-------------|-------------|
| R1802551-001 | Trip Blank | 3/20/2018 | |
| R1802551-002 | MW-10 | 3/20/2018 | 1235 |
| R1802551-003 | MW-17 | 3/22/2018 | 0945 |
| R1802551-004 | MW-8 | 3/22/2018 | 1035 |
| R1802551-005 | MW-16 | 3/22/2018 | 1125 |
| R1802551-006 | MW-9 | 3/22/2018 | 1225 |
| R1802551-007 | EB-032018 | 3/20/2018 | 1240 |
| R1802551-008 | EB-032218 | 3/22/2018 | 1220 |
| R1802551-009 | DUP-032218 | 3/22/2018 | |



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

50277

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

| Project Name Dover - Binghamton | | Project Number 5101.0003 | | ANALYSIS REQUESTED (Include Method Number and Container Preservative) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|---|---|--|---|--------------|--|--------------|--|---|--|--------------|-------------|--------------|--|----------------------|----------------------------------|-----------------------------|-----------------------------|----------------------------|----------------------|---|---|------------|--|--|------------------|--|--|--|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------|--|
| Project Manager Sarah MacCarter | | Report CC | | PRESERVATIVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company/Address Verina Consulting Group, LLC, 1011 US Highway 22, Suite 302 Bridgewater, NJ 08807 | | Phone # 908-864-4400 | | Email smaccarter@vcg-llc.com | | <table border="1"> <tr> <td rowspan="12">NUMBER OF CONTAINERS</td> <td>GC/MS VOAs ◦ 8260 ◦ 824 ◦ CLP</td> <td>GC/MS SVOAs ◦ 8270 ◦ 825</td> <td>GC VOAs ◦ 8021 ◦ 801/802</td> <td>PESTICIDES ◦ 8081 ◦ 808</td> <td>PCBs ◦ 8082 ◦ 808</td> <td>METALS, TOTAL (List in comments below)</td> <td>METALS, DISSOLVED (List in comments below)</td> <td colspan="5">SSPL VOC's</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | | | NUMBER OF CONTAINERS | GC/MS VOAs ◦ 8260 ◦ 824 ◦ CLP | GC/MS SVOAs ◦ 8270 ◦ 825 | GC VOAs ◦ 8021 ◦ 801/802 | PESTICIDES ◦ 8081 ◦ 808 | PCBs ◦ 8082 ◦ 808 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | SSPL VOC's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Sampler's Signature <i>[Signature]</i> | | Sampler's Printed Name Matthew Gandy | | <table border="1"> <tr> <td colspan="12"></td> <td>Preservative Key</td> </tr> <tr> <td colspan="12"></td> <td>0. NONE</td> </tr> <tr> <td colspan="12"></td> <td>1. HCL</td> </tr> <tr> <td colspan="12"></td> <td>2. HNO₃</td> </tr> <tr> <td colspan="12"></td> <td>3. H₂SO₄</td> </tr> <tr> <td colspan="12"></td> <td>4. NaOH</td> </tr> <tr> <td colspan="12"></td> <td>5. Zn. Acetate</td> </tr> <tr> <td colspan="12"></td> <td>6. MeOH</td> </tr> <tr> <td colspan="12"></td> <td>7. NaHSO₄</td> </tr> <tr> <td colspan="12"></td> <td>8. Other <u>sodium</u> <u>thiosulfate</u></td> </tr> <tr> <td colspan="12"></td> <td>REMARKS/ ALTERNATE DESCRIPTION</td> </tr> </table> | | | | | | | | | | | | | | | | | | | | | | | | Preservative Key | | | | | | | | | | | | | 0. NONE | | | | | | | | | | | | | 1. HCL | | | | | | | | | | | | | 2. HNO ₃ | | | | | | | | | | | | | 3. H ₂ SO ₄ | | | | | | | | | | | | | 4. NaOH | | | | | | | | | | | | | 5. Zn. Acetate | | | | | | | | | | | | | 6. MeOH | | | | | | | | | | | | | 7. NaHSO ₄ | | | | | | | | | | | | | 8. Other <u>sodium</u> <u>thiosulfate</u> | | | | | | | | | | | | | REMARKS/ ALTERNATE DESCRIPTION | |
| | | | | | | | | | | | | | Preservative Key | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0. NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1. HCL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 2. HNO ₃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 3. H ₂ SO ₄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 4. NaOH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 5. Zn. Acetate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 6. MeOH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 7. NaHSO ₄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 8. Other <u>sodium</u> <u>thiosulfate</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | REMARKS/ ALTERNATE DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | DATE | TIME | MATRIX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trip Blank | | | | TB | 3 | | | | | | | | | | | | | Trip blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-10 (MS/MSD) | | 3/20/18 | 12:35 | GW | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-17 | | 3/22/18 | 9:45 | GW | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-8 | | 3/22/18 | 10:35 | GW | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-16 | | 3/22/18 | 11:25 | GW | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-9 | | 3/22/18 | 12:25 | GW | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EB-032018 | | 3/20/18 | 12:40 | EB | 3 | | | | | | | | | | | | | Equipment Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EB-032218 | | 3/22/18 | 12:20 | EB | 3 | | | | | | | | | | | | | Equipment Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DUP-032218 | | 3/22/18 | | GW | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS Metals SSPL VOC's; PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,1-DCA, 1,1,1-TCA, and VC * = HCL | | | | | | TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE <u>Standard</u> | | | REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata <input checked="" type="checkbox"/> Yes ___ No | | | INVOICE INFORMATION PO # BILL TO: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE WHERE SAMPLES WERE COLLECTED | | | | | | RELINQUISHED BY | | | RECEIVED BY | | | RELINQUISHED BY | | | RECEIVED BY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature <i>[Signature]</i> | | Signature <i>[Signature]</i> | | Signature | | Signature | | Signature | | Signature | | Signature | | Signature | | Signature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed Name Matthew Gandy | | Printed Name Grayson C. Esmerian | | Printed Name | | Printed Name | | Printed Name | | Printed Name | | Printed Name | | Printed Name | | Printed Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Firm Verina | | Firm ALS | | Firm | | Firm | | Firm | | Firm | | Firm | | Firm | | Firm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date/Time 3/22/18 | | Date/Time | | Date/Time | | Date/Time | | Date/Time | | Date/Time | | Date/Time | | Date/Time | | Date/Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 Verina Consulting Group, LLC
 Dover-Binghamton

5



Cooler Receipt and Preservation Check Form

R1802551

Verina Consulting Group, LLC
Dover-Binghamton

5



Project/Client Verina Consulting

Folder Number _____

Cooler received on 3-23-18 by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

| | | |
|---|---|--|
| 1 | Were Custody seals on outside of cooler? | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| 2 | Custody papers properly completed (ink, signed)? | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| 3 | Did all bottles arrive in good condition (unbroken)? | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| 4 | Circle: <u>Wet Ice</u> Dry Ice Gel packs present? | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |

| | | |
|----|---|--|
| 5a | Perchlorate samples have required headspace? | Y N <input checked="" type="checkbox"/> NA |
| 5b | Did VOA vials, Alk, or Sulfide have sig* bubbles ? | Y N NA |
| 6 | Where did the bottles originate? | ALS/ROC CLIENT |
| 7 | Soil VOA received as: | Bulk Encore 5035set NA |

8. Temperature Readings Date: 3-23-18 Time: 09:51 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

| | | | | | | | | |
|-------------------------------|--|--|-----|-----|-----|-----|-----|-----|
| Observed Temp (°C) | <u>6.2</u> | <u>7.1</u> | | | | | | |
| Correction Factor (°C) | <u>+1.0</u> | <u>+0.7</u> | | | | | | |
| Corrected Temp (°C) | <u>7.2</u> | <u>7.8</u> | | | | | | |
| Temp from: Type of bottle | <u>cent tubes</u> | <u>VOA vial</u> | | | | | | |
| Within 0-6°C? | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> | Y N | Y N | Y N | Y N | Y N | Y N |
| If <0°C, were samples frozen? | Y N | Y N | Y N | Y N | Y N | Y N | Y N | Y N |

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) * Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by md 3/20/18

All samples held in storage location: R-002 by KE on 3-23-18 at 09:58
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 3/23/18 Time: 1335 by: @

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized N/A Tedlar® Bags Inflated N/A

| pH | Lot of test paper | Reagent | Preserved? | | Lot Received | Exp | Sample ID Adjusted | Vol. Added | Lot Added | Final pH |
|-----------------------|-------------------|---|------------|----|--|-----|--------------------|------------|-----------|----------|
| | | | Yes | No | | | | | | |
| ≥12 | | NaOH | | | | | | | | |
| ∩ | | HNO ₃ | | | | | | | | |
| ∩ | | H ₂ SO ₄ | | | | | | | | |
| <4 | | NaHSO ₄ | | | | | | | | |
| 5-9 | | For 608pest | | | No=Notify for 3day | | | | | |
| Residual Chlorine (-) | | For CN, Phenol, 625, 608pest, 522 | | | If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). | | | | | |
| | | Na ₂ S ₂ O ₃ | | | | | | | | |
| | | ZnAcetate | - | - | | | | | | |
| | | HCl | ** | ** | <u>4115/20</u> | | | | | |

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 7-249-002, 7-254-004

Explain all Discrepancies/ Other Comments:
* 1 bag of ice set on top of bubble wrapped VOA sets.

| | |
|-------|--------|
| CLRES | BULK |
| DO | FLDT |
| HPROD | HGFB |
| HTR | LL3541 |
| PH | SUB |
| SO3 | MARRS |
| ALS | REV |

Labels secondary reviewed by: @
PC Secondary Review: md 3/20/18 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|---------|-----------|------|------------------------|-------------|
| R1802551-001.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1134 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-001.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-001.03 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-002.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1134 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-002.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-002.03 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-002.04 | | 3/23/2018 | 1347 | SMO / DWARD | |
| R1802551-002.05 | | 3/23/2018 | 1347 | SMO / DWARD | |
| R1802551-002.06 | | 3/23/2018 | 1347 | SMO / DWARD | |
| R1802551-002.07 | | | | | |

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| | | 3/23/2018 | 1347 | SMO / DWARD | |
| R1802551-002.08 | | 3/23/2018 | 1347 | SMO / DWARD | |
| R1802551-002.09 | | 3/23/2018 | 1347 | SMO / DWARD | |
| R1802551-003.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1135 | In Lab / KRUEST | |
| | | 3/26/2018 | 1155 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-003.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-003.03 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-004.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1135 | In Lab / KRUEST | |
| | | 3/26/2018 | 1155 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-004.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-004.03 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|---------|-----------|------|------------------------|-------------|
| R1802551-005.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1135 | In Lab / KRUEST | |
| | | 3/26/2018 | 1155 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-005.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-005.03 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-006.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1135 | In Lab / KRUEST | |
| | | 3/26/2018 | 1155 | R-001-S12 / KRUEST | |
| R1802551-006.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-006.03 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-007.01 | 8260C | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1134 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-007.02 | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| R1802551-007.03 | | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-008.01 | | | | | |
| | 8260C | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1134 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-008.02 | | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-008.03 | | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-009.01 | | | | | |
| | 8260C | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| | | 3/26/2018 | 1136 | In Lab / KRUEST | |
| | | 3/26/2018 | 1155 | R-001-S12 / KRUEST | |
| | | 3/27/2018 | 1207 | In Lab / KRUEST | |
| | | 3/27/2018 | 1338 | R-001-S12 / KRUEST | |
| R1802551-009.02 | | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |
| R1802551-009.03 | | | | | |
| | | 3/23/2018 | 1336 | SMO / DWARD | |
| | | 3/23/2018 | 1337 | R-001 / DWARD | |



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>100% Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|---|



Rochester Lab ID # for State Certifications¹

| | | |
|-------------------------|-----------------------|-------------------------|
| Connecticut ID # PH0556 | Maine ID #NY0032 | New Hampshire ID # |
| Delaware Approved | New Jersey ID # NY004 | 294100 A/B |
| DoD ELAP #65817 | New York ID # 10145 | Pennsylvania ID# 68-786 |
| Florida ID # E87674 | North Carolina #676 | Rhode Island ID # 158 |
| | | Virginia #460167 |

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

| | |
|------------|--|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551

Sample Name: Trip Blank
Lab Code: R1802551-001
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-10
Lab Code: R1802551-002
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-17
Lab Code: R1802551-003
Sample Matrix: Water

Date Collected: 03/22/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-8
Lab Code: R1802551-004
Sample Matrix: Water

Date Collected: 03/22/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-16
Lab Code: R1802551-005
Sample Matrix: Water

Date Collected: 03/22/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551

Sample Name: MW-9
Lab Code: R1802551-006
Sample Matrix: Water

Date Collected: 03/22/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: EB-032018
Lab Code: R1802551-007
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: EB-032218
Lab Code: R1802551-008
Sample Matrix: Water

Date Collected: 03/22/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: DUP-032218
Lab Code: R1802551-009
Sample Matrix: Water

Date Collected: 03/22/18
Date Received: 03/23/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

| Analytical Method | Preparation Method |
|-------------------------------|--------------------|
| 200.7 | 200.2 |
| 200.8 | 200.2 |
| 6010C | 3005A/3010A |
| 6020A | ILM05.3 |
| 9014 Cyanide Reactivity | SW846 Ch7, 7.3.4.2 |
| 9034 Sulfide Reactivity | SW846 Ch7, 7.3.4.2 |
| 9034 Sulfide Acid Soluble | 9030B |
| 9056A Bomb (Halogens) | 5050A |
| 9066 Manual Distillation | 9065 |
| SM 4500-CN-E Residual Cyanide | SM 4500-CN-G |
| SM 4500-CN-E WAD Cyanide | SM 4500-CN-I |

Solid/Soil/Non-Aqueous Matrix

| Analytical Method | Preparation Method |
|--|--------------------|
| 6010C | 3050B |
| 6020A | 3050B |
| 6010C TCLP (1311) extract | 3005A/3010A |
| 6010 SPLP (1312) extract | 3005A/3010A |
| 7196A | 3060A |
| 7199 | 3060A |
| 9056A Halogens/Halides | 5050 |
| 300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions | DI extraction |

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18
Date Received: 03/23/18 09:40

Sample Name: Trip Blank
Lab Code: R1802551-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 16:10 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 16:10 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 16:10 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:10 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 16:10 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 16:10 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:10 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 16:10 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 16:10 | |
| Dibromofluoromethane | 89 | 89 - 119 | 03/27/18 16:10 | |
| Toluene-d8 | 98 | 87 - 121 | 03/27/18 16:10 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18 12:35
Date Received: 03/23/18 09:40

Sample Name: MW-10
Lab Code: R1802551-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.54 J | 1.0 | 0.36 | 1 | 03/27/18 15:05 | |
| 1,1-Dichloroethane (1,1-DCA) | 0.72 J | 1.0 | 0.20 | 1 | 03/27/18 15:05 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 15:05 | |
| Tetrachloroethene (PCE) | 0.52 J | 1.0 | 0.30 | 1 | 03/27/18 15:05 | |
| Trichloroethene (TCE) | 5.0 | 1.0 | 0.22 | 1 | 03/27/18 15:05 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 15:05 | |
| cis-1,2-Dichloroethene | 2.2 | 1.0 | 0.30 | 1 | 03/27/18 15:05 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 15:05 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 15:05 | |
| Dibromofluoromethane | 93 | 89 - 119 | 03/27/18 15:05 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 15:05 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18 12:40
Date Received: 03/23/18 09:40

Sample Name: EB-032018
Lab Code: R1802551-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 16:32 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 16:32 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 16:32 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:32 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 16:32 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 16:32 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:32 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 16:32 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 03/27/18 16:32 | |
| Dibromofluoromethane | 91 | 89 - 119 | 03/27/18 16:32 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 16:32 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 12:20
Date Received: 03/23/18 09:40

Sample Name: EB-032218
Lab Code: R1802551-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 16:54 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 16:54 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 16:54 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:54 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 16:54 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 16:54 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:54 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 16:54 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 03/27/18 16:54 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 16:54 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 16:54 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 09:45
Date Received: 03/23/18 09:40

Sample Name: MW-17
Lab Code: R1802551-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.53 J | 1.0 | 0.36 | 1 | 03/27/18 13:15 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.8 | 1.0 | 0.20 | 1 | 03/27/18 13:15 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 13:15 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:15 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 13:15 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 13:15 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:15 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 13:15 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 13:15 | |
| Dibromofluoromethane | 91 | 89 - 119 | 03/27/18 13:15 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 13:15 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 10:35
Date Received: 03/23/18 09:40

Sample Name: MW-8
Lab Code: R1802551-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.9 | 1.0 | 0.36 | 1 | 03/27/18 13:37 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.2 | 1.0 | 0.20 | 1 | 03/27/18 13:37 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 13:37 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:37 | |
| Trichloroethene (TCE) | 50 | 1.0 | 0.22 | 1 | 03/27/18 13:37 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 13:37 | |
| cis-1,2-Dichloroethene | 67 | 1.0 | 0.30 | 1 | 03/27/18 13:37 | |
| trans-1,2-Dichloroethene | 0.33 J | 1.0 | 0.33 | 1 | 03/27/18 13:37 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 13:37 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 13:37 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 13:37 | |

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 11:25
Date Received: 03/23/18 09:40

Sample Name: MW-16
Lab Code: R1802551-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 2.8 | 1.0 | 0.36 | 1 | 03/27/18 13:59 | |
| 1,1-Dichloroethane (1,1-DCA) | 7.7 | 1.0 | 0.20 | 1 | 03/27/18 13:59 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 13:59 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:59 | |
| Trichloroethene (TCE) | 2.4 | 1.0 | 0.22 | 1 | 03/27/18 13:59 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 13:59 | |
| cis-1,2-Dichloroethene | 15 | 1.0 | 0.30 | 1 | 03/27/18 13:59 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 13:59 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 03/27/18 13:59 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 13:59 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 13:59 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 12:25
Date Received: 03/23/18 09:40

Sample Name: MW-9
Lab Code: R1802551-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 14:21 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 14:21 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 14:21 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 14:21 | |
| Trichloroethene (TCE) | 5.9 | 1.0 | 0.22 | 1 | 03/27/18 14:21 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 14:21 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 14:21 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 14:21 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 95 | 85 - 122 | 03/27/18 14:21 | |
| Dibromofluoromethane | 90 | 89 - 119 | 03/27/18 14:21 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 14:21 | |

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18
Date Received: 03/23/18 09:40

Sample Name: DUP-032218
Lab Code: R1802551-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 2.5 | 1.0 | 0.36 | 1 | 03/27/18 14:43 | |
| 1,1-Dichloroethane (1,1-DCA) | 7.3 | 1.0 | 0.20 | 1 | 03/27/18 14:43 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 14:43 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 14:43 | |
| Trichloroethene (TCE) | 2.3 | 1.0 | 0.22 | 1 | 03/27/18 14:43 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 14:43 | |
| cis-1,2-Dichloroethene | 14 | 1.0 | 0.30 | 1 | 03/27/18 14:43 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 14:43 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 03/27/18 14:43 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 14:43 | |
| Toluene-d8 | 99 | 87 - 121 | 03/27/18 14:43 | |



QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

| Sample Name | Lab Code | 4-Bromofluorobenzene | Dibromofluoromethane | Toluene-d8 |
|--------------------|--------------|----------------------|----------------------|------------|
| | | 85 - 122 | 89 - 119 | 87 - 121 |
| Trip Blank | R1802551-001 | 92 | 89 | 98 |
| MW-10 | R1802551-002 | 92 | 93 | 100 |
| EB-032018 | R1802551-007 | 94 | 91 | 100 |
| EB-032218 | R1802551-008 | 94 | 92 | 100 |
| Lab Control Sample | RQ1802745-03 | 94 | 96 | 99 |
| Method Blank | RQ1802745-04 | 91 | 92 | 99 |
| MW-10 MS | RQ1802745-05 | 97 | 98 | 102 |
| MW-10 DMS | RQ1802745-06 | 97 | 100 | 100 |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18
Date Received: 03/23/18
Date Analyzed: 03/27/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-10
Lab Code: R1802551-002
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

| Analyte Name | Sample Result | Matrix Spike RQ1802745-05 | | | Duplicate Matrix Spike RQ1802745-06 | | | % Rec Limits | RPD | RPD Limit |
|------------------------------|---------------|------------------------------|--------------|-------|--|--------------|-------|--------------|-----|-----------|
| | | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| 1,1,1-Trichloroethane (TCA) | 0.54 J | 53.7 | 50.0 | 106 | 54.3 | 50.0 | 108 | 74-127 | 1 | 30 |
| 1,1-Dichloroethane (1,1-DCA) | 0.72 J | 66.5 | 50.0 | 132 | 67.5 | 50.0 | 134 * | 74-132 | 1 | 30 |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 57.8 | 50.0 | 116 | 57.8 | 50.0 | 116 | 74-139 | <1 | 30 |
| Tetrachloroethene (PCE) | 0.52 J | 57.2 | 50.0 | 113 | 58.5 | 50.0 | 116 | 67-137 | 2 | 30 |
| Trichloroethene (TCE) | 5.0 | 60.9 | 50.0 | 112 | 61.3 | 50.0 | 113 | 62-142 | <1 | 30 |
| Vinyl Chloride | 1.0 U | 63.6 | 50.0 | 127 | 65.8 | 50.0 | 132 | 60-157 | 3 | 30 |
| cis-1,2-Dichloroethene | 2.2 | 60.8 | 50.0 | 117 | 62.3 | 50.0 | 120 | 72-133 | 2 | 30 |
| trans-1,2-Dichloroethene | 1.0 U | 59.8 | 50.0 | 120 | 62.2 | 50.0 | 124 | 77-125 | 4 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Analyzed: 03/27/18 12:22
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1802745-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\032718\P16698.D\
Analysis Lot:585036

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|--|----------------------|
| Lab Control Sample | RQ1802745-03 | I:\ACQUADATA\msvoa12\Data\032718\P16696.D\ | 03/27/18 11:30 |
| MW-10 | R1802551-002 | I:\ACQUADATA\msvoa12\Data\032718\P16705.D\ | 03/27/18 15:05 |
| Trip Blank | R1802551-001 | I:\ACQUADATA\msvoa12\Data\032718\P16708.D\ | 03/27/18 16:10 |
| EB-032018 | R1802551-007 | I:\ACQUADATA\msvoa12\Data\032718\P16709.D\ | 03/27/18 16:32 |
| EB-032218 | R1802551-008 | I:\ACQUADATA\msvoa12\Data\032718\P16710.D\ | 03/27/18 16:54 |
| MW-10 | RQ1802745-05 | I:\ACQUADATA\msvoa12\Data\032718\P16719.D\ | 03/27/18 20:11 |
| MW-10 | RQ1802745-06 | I:\ACQUADATA\msvoa12\Data\032718\P16720.D\ | 03/27/18 20:33 |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802745-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 12:22 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 12:22 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 12:22 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 12:22 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 12:22 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 12:22 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 12:22 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 12:22 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 03/27/18 12:22 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 12:22 | |
| Toluene-d8 | 99 | 87 - 121 | 03/27/18 12:22 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Analyzed: 03/27/18 11:30
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ1802745-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\032718\P16696.D\
Analysis Lot:585036

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|--|----------------------|
| Method Blank | RQ1802745-04 | I:\ACQUADATA\msvoa12\Data\032718\P16698.D\ | 03/27/18 12:22 |
| MW-10 | R1802551-002 | I:\ACQUADATA\msvoa12\Data\032718\P16705.D\ | 03/27/18 15:05 |
| Trip Blank | R1802551-001 | I:\ACQUADATA\msvoa12\Data\032718\P16708.D\ | 03/27/18 16:10 |
| EB-032018 | R1802551-007 | I:\ACQUADATA\msvoa12\Data\032718\P16709.D\ | 03/27/18 16:32 |
| EB-032218 | R1802551-008 | I:\ACQUADATA\msvoa12\Data\032718\P16710.D\ | 03/27/18 16:54 |
| MW-10 | RQ1802745-05 | I:\ACQUADATA\msvoa12\Data\032718\P16719.D\ | 03/27/18 20:11 |
| MW-10 | RQ1802745-06 | I:\ACQUADATA\msvoa12\Data\032718\P16720.D\ | 03/27/18 20:33 |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Analyzed: 03/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802745-03

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------------------------|---------------|---------------------|--------------|---------------------|
| 1,1,1-Trichloroethane (TCA) | 8260C | 17.2 | 20.0 | 86 | 74-120 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 22.9 | 20.0 | 114 | 78-117 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 19.3 | 20.0 | 96 | 74-135 |
| Tetrachloroethene (PCE) | 8260C | 17.3 | 20.0 | 86 | 78-124 |
| Trichloroethene (TCE) | 8260C | 18.8 | 20.0 | 94 | 78-123 |
| Vinyl Chloride | 8260C | 21.5 | 20.0 | 108 | 69-133 |
| cis-1,2-Dichloroethene | 8260C | 21.0 | 20.0 | 105 | 80-121 |
| trans-1,2-Dichloroethene | 8260C | 20.7 | 20.0 | 103 | 80-120 |

ALS Group USA, Corp.
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QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551
Date Analyzed:03/27/18 10:03

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\032718\P16693.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 585036

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|---------------|---------------|----------------------|---------------|------------------|
| 50 | 95 | 15 | 40 | 20.24 | 30995 | Pass |
| 75 | 95 | 30 | 60 | 50.14 | 76771 | Pass |
| 95 | 95 | 100 | 100 | 100.00 | 153101 | Pass |
| 96 | 95 | 5 | 9 | 6.89 | 10555 | Pass |
| 173 | 174 | 0 | 2 | 0.00 | 0 | Pass |
| 174 | 95 | 50 | 120 | 70.91 | 108565 | Pass |
| 175 | 174 | 5 | 9 | 7.23 | 7848 | Pass |
| 176 | 174 | 95 | 101 | 96.80 | 105096 | Pass |
| 177 | 176 | 5 | 9 | 7.53 | 7909 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|-------------------------------------|--------------|--|----------------|---|
| Continuing Calibration Verification | RQ1802745-02 | I:\ACQUADATA\msvoa12\Data\032718\P16694.D\ | 03/27/18 10:32 | |
| Lab Control Sample | RQ1802745-03 | I:\ACQUADATA\msvoa12\Data\032718\P16696.D\ | 03/27/18 11:30 | |
| Method Blank | RQ1802745-04 | I:\ACQUADATA\msvoa12\Data\032718\P16698.D\ | 03/27/18 12:22 | |
| MW-10 | R1802551-002 | I:\ACQUADATA\msvoa12\Data\032718\P16705.D\ | 03/27/18 15:05 | |
| Trip Blank | R1802551-001 | I:\ACQUADATA\msvoa12\Data\032718\P16708.D\ | 03/27/18 16:10 | |
| EB-032018 | R1802551-007 | I:\ACQUADATA\msvoa12\Data\032718\P16709.D\ | 03/27/18 16:32 | |
| EB-032218 | R1802551-008 | I:\ACQUADATA\msvoa12\Data\032718\P16710.D\ | 03/27/18 16:54 | |
| MW-10 | RQ1802745-05 | I:\ACQUADATA\msvoa12\Data\032718\P16719.D\ | 03/27/18 20:11 | |
| MW-10 | RQ1802745-06 | I:\ACQUADATA\msvoa12\Data\032718\P16720.D\ | 03/27/18 20:33 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551
Date Analyzed:03/27/18 10:32

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa12\Data\032718\P16694.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ1802745-02
Analysis Lot:585036
Signal ID:

| | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---------------------------|------------------------|-------|---------------------|------|------------------|-------|
| | Area | RT | Area | RT | Area | RT |
| ICAL Result ==> | 234,637 | 11.84 | 530,528 | 6.47 | 459,768 | 9.78 |
| Upper Limit ==> | 469,274 | 12.34 | 1,061,056 | 6.97 | 919,536 | 10.28 |
| Lower Limit ==> | 117,319 | 11.34 | 265,264 | 5.97 | 229,884 | 9.28 |

Associated Analyses

| Lab Control Sample | RQ1802745-03 | 225614 | 11.84 | 517963 | 6.47 | 456652 | 9.78 |
|--------------------|--------------|--------|-------|--------|------|--------|------|
| Method Blank | RQ1802745-04 | 202807 | 11.84 | 478787 | 6.47 | 414857 | 9.78 |
| MW-10 | R1802551-002 | 209468 | 11.84 | 482698 | 6.47 | 424525 | 9.78 |
| Trip Blank | R1802551-001 | 204404 | 11.84 | 475796 | 6.47 | 410509 | 9.78 |
| EB-032018 | R1802551-007 | 210915 | 11.84 | 474659 | 6.47 | 421343 | 9.78 |
| EB-032218 | R1802551-008 | 208421 | 11.84 | 487658 | 6.47 | 425042 | 9.78 |
| MW-10 | RQ1802745-05 | 215946 | 11.84 | 472299 | 6.47 | 422527 | 9.78 |
| MW-10 | RQ1802745-06 | 210824 | 11.84 | 471508 | 6.47 | 415628 | 9.78 |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551
Date Analyzed:03/27/18 10:32

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\032718\P16694.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ1802745-02
Analysis Lot:585036
Signal ID:

| | Pentafluorobenzene | |
|---------------------------|--------------------|------|
| | Area | RT |
| ICAL Result ==> | 315,594 | 5.38 |
| Upper Limit ==> | 631,188 | 5.88 |
| Lower Limit ==> | 157,797 | 4.88 |

Associated Analyses

| Lab Control Sample | RQ1802745-03 | 302355 | 5.38 |
|--------------------|--------------|--------|------|
| Method Blank | RQ1802745-04 | 285373 | 5.38 |
| MW-10 | R1802551-002 | 285631 | 5.38 |
| Trip Blank | R1802551-001 | 281048 | 5.38 |
| EB-032018 | R1802551-007 | 280405 | 5.38 |
| EB-032218 | R1802551-008 | 288147 | 5.38 |
| MW-10 | RQ1802745-05 | 284362 | 5.38 |
| MW-10 | RQ1802745-06 | 280872 | 5.38 |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Extraction Method: EPA 5030C

| Sample Name | Lab Code | 4-Bromofluorobenzene | Dibromofluoromethane | Toluene-d8 |
|--------------------|--------------|----------------------|----------------------|------------|
| | | 85 - 122 | 89 - 119 | 87 - 121 |
| MW-17 | R1802551-003 | 92 | 91 | 100 |
| MW-8 | R1802551-004 | 92 | 92 | 100 |
| MW-16 | R1802551-005 | 93 | 92 | 100 |
| MW-9 | R1802551-006 | 95 | 90 | 100 |
| DUP-032218 | R1802551-009 | 93 | 92 | 99 |
| Lab Control Sample | RQ1802745-03 | 94 | 96 | 99 |
| Method Blank | RQ1802745-04 | 91 | 92 | 99 |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Analyzed: 03/27/18 12:22
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Method Blank
Lab Code: RQ1802745-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\032718\P16698.D\
Analysis Lot:585036

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|--|----------------------|
| Lab Control Sample | RQ1802745-03 | I:\ACQUADATA\msvoa12\Data\032718\P16696.D\ | 03/27/18 11:30 |
| MW-17 | R1802551-003 | I:\ACQUADATA\msvoa12\Data\032718\P16700.D\ | 03/27/18 13:15 |
| MW-8 | R1802551-004 | I:\ACQUADATA\msvoa12\Data\032718\P16701.D\ | 03/27/18 13:37 |
| MW-16 | R1802551-005 | I:\ACQUADATA\msvoa12\Data\032718\P16702.D\ | 03/27/18 13:59 |
| MW-9 | R1802551-006 | I:\ACQUADATA\msvoa12\Data\032718\P16703.D\ | 03/27/18 14:21 |
| DUP-032218 | R1802551-009 | I:\ACQUADATA\msvoa12\Data\032718\P16704.D\ | 03/27/18 14:43 |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802745-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 12:22 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 12:22 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 12:22 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 12:22 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 12:22 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 12:22 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 12:22 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 12:22 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 03/27/18 12:22 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 12:22 | |
| Toluene-d8 | 99 | 87 - 121 | 03/27/18 12:22 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Analyzed: 03/27/18 11:30
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Lab Control Sample
Lab Code: RQ1802745-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-12
File ID:I:\ACQUADATA\msvoa12\Data\032718\P16696.D\
Analysis Lot:585036

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|--|----------------------|
| Method Blank | RQ1802745-04 | I:\ACQUADATA\msvoa12\Data\032718\P16698.D\ | 03/27/18 12:22 |
| MW-17 | R1802551-003 | I:\ACQUADATA\msvoa12\Data\032718\P16700.D\ | 03/27/18 13:15 |
| MW-8 | R1802551-004 | I:\ACQUADATA\msvoa12\Data\032718\P16701.D\ | 03/27/18 13:37 |
| MW-16 | R1802551-005 | I:\ACQUADATA\msvoa12\Data\032718\P16702.D\ | 03/27/18 13:59 |
| MW-9 | R1802551-006 | I:\ACQUADATA\msvoa12\Data\032718\P16703.D\ | 03/27/18 14:21 |
| DUP-032218 | R1802551-009 | I:\ACQUADATA\msvoa12\Data\032718\P16704.D\ | 03/27/18 14:43 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Analyzed: 03/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802745-03

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------------------------|---------------|---------------------|--------------|---------------------|
| 1,1,1-Trichloroethane (TCA) | 8260C | 17.2 | 20.0 | 86 | 74-120 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 22.9 | 20.0 | 114 | 78-117 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 19.3 | 20.0 | 96 | 74-135 |
| Tetrachloroethene (PCE) | 8260C | 17.3 | 20.0 | 86 | 78-124 |
| Trichloroethene (TCE) | 8260C | 18.8 | 20.0 | 94 | 78-123 |
| Vinyl Chloride | 8260C | 21.5 | 20.0 | 108 | 69-133 |
| cis-1,2-Dichloroethene | 8260C | 21.0 | 20.0 | 105 | 80-121 |
| trans-1,2-Dichloroethene | 8260C | 20.7 | 20.0 | 103 | 80-120 |

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551
Date Analyzed:03/27/18 10:03

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa12\Data\032718\P16693.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 585036

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|---------------|---------------|----------------------|---------------|------------------|
| 50 | 95 | 15 | 40 | 20.24 | 30995 | Pass |
| 75 | 95 | 30 | 60 | 50.14 | 76771 | Pass |
| 95 | 95 | 100 | 100 | 100.00 | 153101 | Pass |
| 96 | 95 | 5 | 9 | 6.89 | 10555 | Pass |
| 173 | 174 | 0 | 2 | 0.00 | 0 | Pass |
| 174 | 95 | 50 | 120 | 70.91 | 108565 | Pass |
| 175 | 174 | 5 | 9 | 7.23 | 7848 | Pass |
| 176 | 174 | 95 | 101 | 96.80 | 105096 | Pass |
| 177 | 176 | 5 | 9 | 7.53 | 7909 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|-------------------------------------|--------------|--|----------------|---|
| Continuing Calibration Verification | RQ1802745-02 | I:\ACQUADATA\msvoa12\Data\032718\P16694.D\ | 03/27/18 10:32 | |
| Lab Control Sample | RQ1802745-03 | I:\ACQUADATA\msvoa12\Data\032718\P16696.D\ | 03/27/18 11:30 | |
| Method Blank | RQ1802745-04 | I:\ACQUADATA\msvoa12\Data\032718\P16698.D\ | 03/27/18 12:22 | |
| MW-17 | R1802551-003 | I:\ACQUADATA\msvoa12\Data\032718\P16700.D\ | 03/27/18 13:15 | |
| MW-8 | R1802551-004 | I:\ACQUADATA\msvoa12\Data\032718\P16701.D\ | 03/27/18 13:37 | |
| MW-16 | R1802551-005 | I:\ACQUADATA\msvoa12\Data\032718\P16702.D\ | 03/27/18 13:59 | |
| MW-9 | R1802551-006 | I:\ACQUADATA\msvoa12\Data\032718\P16703.D\ | 03/27/18 14:21 | |
| DUP-032218 | R1802551-009 | I:\ACQUADATA\msvoa12\Data\032718\P16704.D\ | 03/27/18 14:43 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551
Date Analyzed:03/27/18 10:32

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa12\Data\032718\P16694.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ1802745-02
Analysis Lot:585036
Signal ID:

| | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---------------------------|------------------------|-------|---------------------|------|------------------|-------|
| | Area | RT | Area | RT | Area | RT |
| ICAL Result ==> | 234,637 | 11.84 | 530,528 | 6.47 | 459,768 | 9.78 |
| Upper Limit ==> | 469,274 | 12.34 | 1,061,056 | 6.97 | 919,536 | 10.28 |
| Lower Limit ==> | 117,319 | 11.34 | 265,264 | 5.97 | 229,884 | 9.28 |

Associated Analyses

| Sample Name | Lab Code | Area | RT | Area | RT | Area | RT |
|--------------------|--------------|--------|-------|--------|------|--------|------|
| Lab Control Sample | RQ1802745-03 | 225614 | 11.84 | 517963 | 6.47 | 456652 | 9.78 |
| Method Blank | RQ1802745-04 | 202807 | 11.84 | 478787 | 6.47 | 414857 | 9.78 |
| MW-17 | R1802551-003 | 236506 | 11.84 | 554963 | 6.47 | 484861 | 9.78 |
| MW-8 | R1802551-004 | 207194 | 11.84 | 486905 | 6.47 | 428671 | 9.78 |
| MW-16 | R1802551-005 | 206108 | 11.84 | 484154 | 6.47 | 423298 | 9.78 |
| MW-9 | R1802551-006 | 213624 | 11.84 | 488979 | 6.47 | 427171 | 9.78 |
| DUP-032218 | R1802551-009 | 201775 | 11.84 | 479735 | 6.47 | 422035 | 9.78 |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551
Date Analyzed:03/27/18 10:32

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa12\Data\032718\P16694.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ1802745-02
Analysis Lot:585036
Signal ID:

| | Pentafluorobenzene | |
|---------------------------|--------------------|------|
| | Area | RT |
| ICAL Result ==> | 315,594 | 5.38 |
| Upper Limit ==> | 631,188 | 5.88 |
| Lower Limit ==> | 157,797 | 4.88 |

Associated Analyses

| Lab Control Sample | RQ1802745-03 | 302355 | 5.38 |
|--------------------|--------------|--------|------|
| Method Blank | RQ1802745-04 | 285373 | 5.38 |
| MW-17 | R1802551-003 | 326286 | 5.38 |
| MW-8 | R1802551-004 | 289539 | 5.38 |
| MW-16 | R1802551-005 | 285139 | 5.38 |
| MW-9 | R1802551-006 | 289167 | 5.38 |
| DUP-032218 | R1802551-009 | 282631 | 5.38 |



Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18
Date Received: 03/23/18 09:40

Sample Name: Trip Blank
Lab Code: R1802551-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 16:10 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 16:10 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 16:10 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:10 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 16:10 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 16:10 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:10 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 16:10 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 16:10 | |
| Dibromofluoromethane | 89 | 89 - 119 | 03/27/18 16:10 | |
| Toluene-d8 | 98 | 87 - 121 | 03/27/18 16:10 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18 12:35
Date Received: 03/23/18 09:40

Sample Name: MW-10
Lab Code: R1802551-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.54 J | 1.0 | 0.36 | 1 | 03/27/18 15:05 | |
| 1,1-Dichloroethane (1,1-DCA) | 0.72 J | 1.0 | 0.20 | 1 | 03/27/18 15:05 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 15:05 | |
| Tetrachloroethene (PCE) | 0.52 J | 1.0 | 0.30 | 1 | 03/27/18 15:05 | |
| Trichloroethene (TCE) | 5.0 | 1.0 | 0.22 | 1 | 03/27/18 15:05 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 15:05 | |
| cis-1,2-Dichloroethene | 2.2 | 1.0 | 0.30 | 1 | 03/27/18 15:05 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 15:05 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 15:05 | |
| Dibromofluoromethane | 93 | 89 - 119 | 03/27/18 15:05 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 15:05 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/20/18 12:40
Date Received: 03/23/18 09:40

Sample Name: EB-032018
Lab Code: R1802551-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 16:32 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 16:32 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 16:32 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:32 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 16:32 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 16:32 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:32 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 16:32 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 03/27/18 16:32 | |
| Dibromofluoromethane | 91 | 89 - 119 | 03/27/18 16:32 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 16:32 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 12:20
Date Received: 03/23/18 09:40

Sample Name: EB-032218
Lab Code: R1802551-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

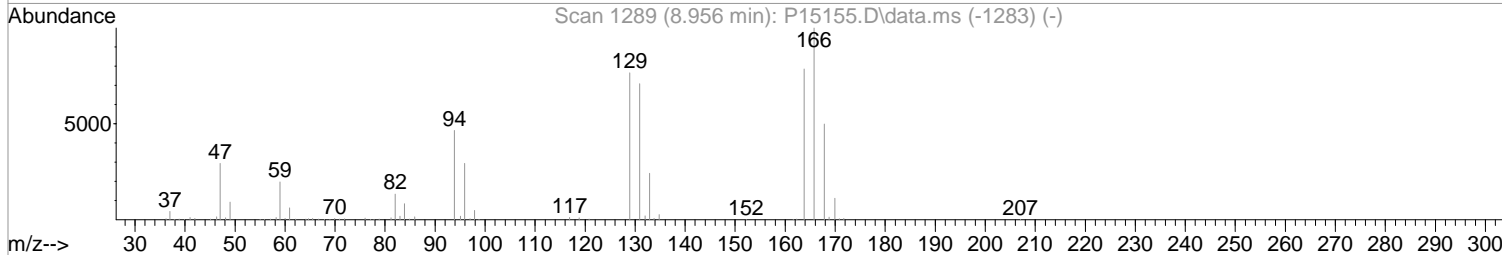
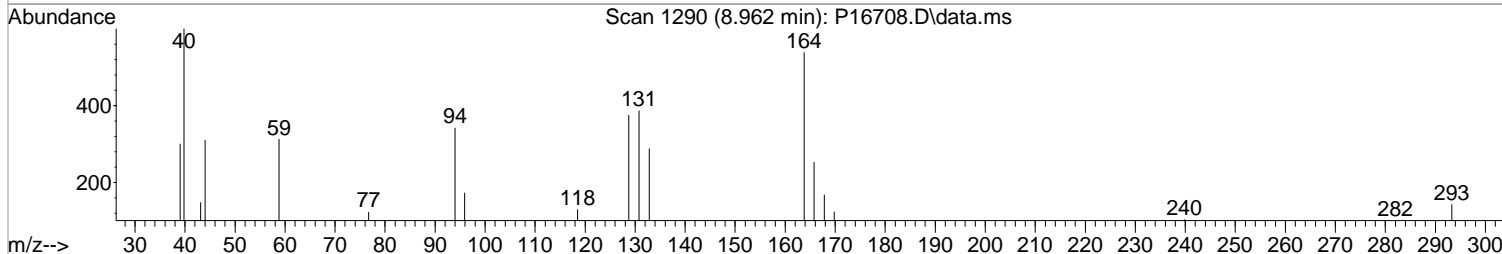
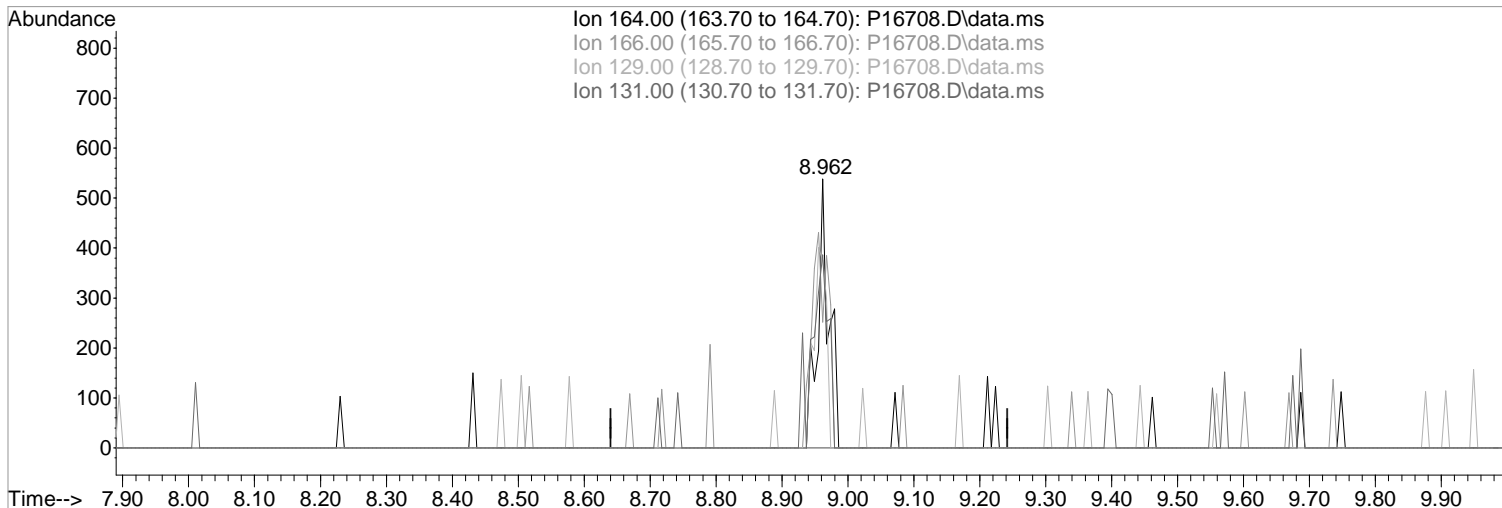
| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 16:54 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 16:54 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 16:54 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:54 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 16:54 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 16:54 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 16:54 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 16:54 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 03/27/18 16:54 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 16:54 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 16:54 | |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16708.D
Acq On : 27 Mar 2018 4:10 pm
Operator : K.Ruest
Sample : R1802551-001|1.0
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 16:43:01 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16708.D\data.ms

(72) Tetrachloroethene (P)
8.962min (-0.006) 0.29 ppb m
response 661

Manual Integration:
After
Peak not found.

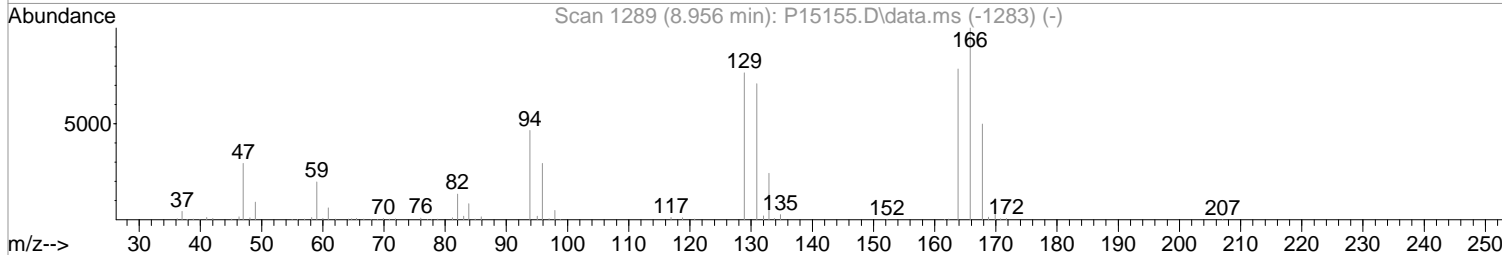
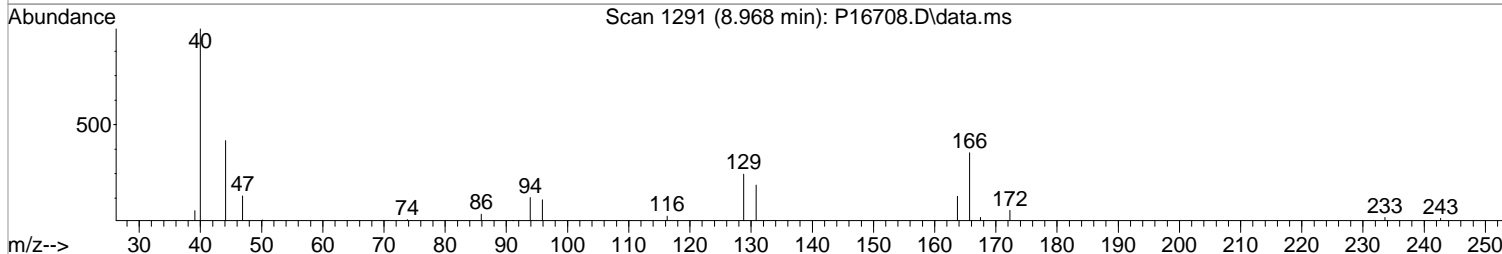
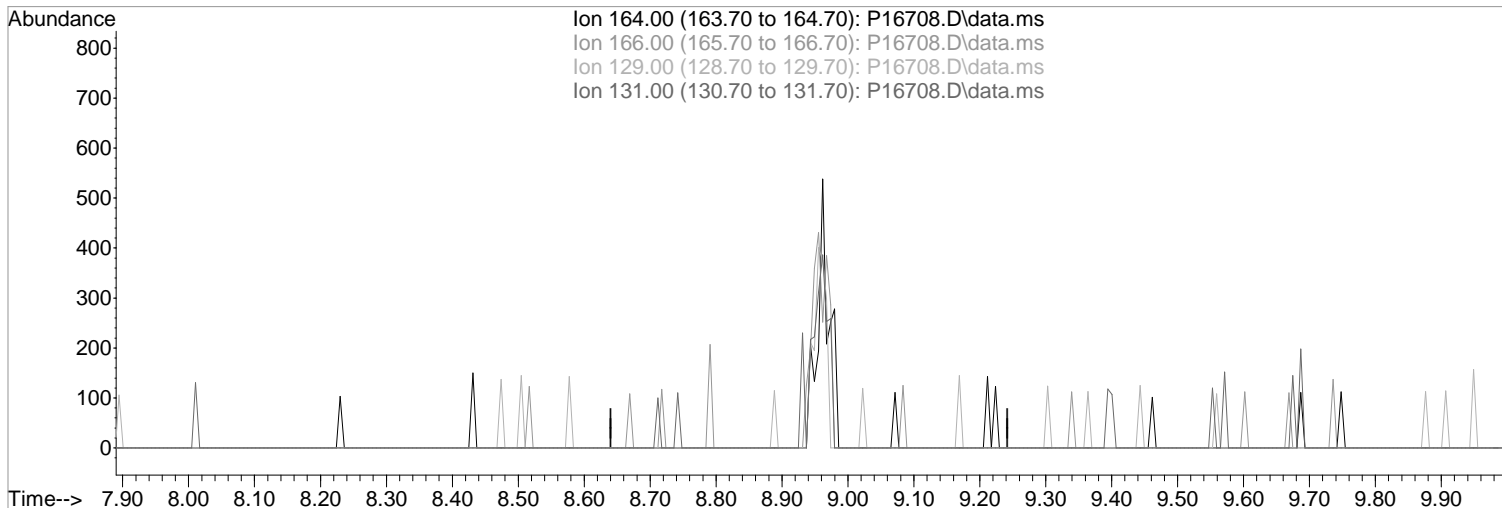
| Ion | Exp% | Act% |
|--------|--------|--------|
| 164.00 | 100 | 100 |
| 166.00 | 127.20 | 46.84# |
| 129.00 | 97.50 | 69.70# |
| 131.00 | 90.20 | 71.75 |

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16708.D
Acq On : 27 Mar 2018 4:10 pm
Operator : K.Ruest
Sample : R1802551-001|1.0
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 16:43:01 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



(72) Tetrachloroethene (P)
8.968min (-8.968) 0.00 ppb
response 0

Manual Integration:
Before

| Ion | Exp% | Act% |
|--------|--------|-------|
| 164.00 | 100 | 0.00 |
| 166.00 | 127.20 | 0.00# |
| 129.00 | 97.50 | 0.00# |
| 131.00 | 90.20 | 0.00# |

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16708.D
 Acq On : 27 Mar 2018 4:10 pm
 Operator : K.Ruest
 Sample : R1802551-001|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 17:08:03 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|-------------------------------|--------|----------------|----------|-------|---------|----------|-----------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 281048 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 475796 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 410509 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 204404 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 125562 | 44.45 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 88.90%# | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 186420 | 48.15 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 96.30% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 619979 | 49.15 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.30% | | |
| 70) SURR2,BFB | 10.864 | 95 | 224336 | 45.96 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 91.92% | | |
| Target Compounds | | | | | | | |
| 15) Acetone | 2.347 | 43 | 1530 | 0.89 | ppb | | Qvalue 93 |
| 16) 2-Propanol | 2.481 | 45 | 2839 | 8.63 | ppb | | 97 |
| 72) Tetrachloroethene | 8.962 | 164 | 661m | 0.29 | ppb | | < MRL |

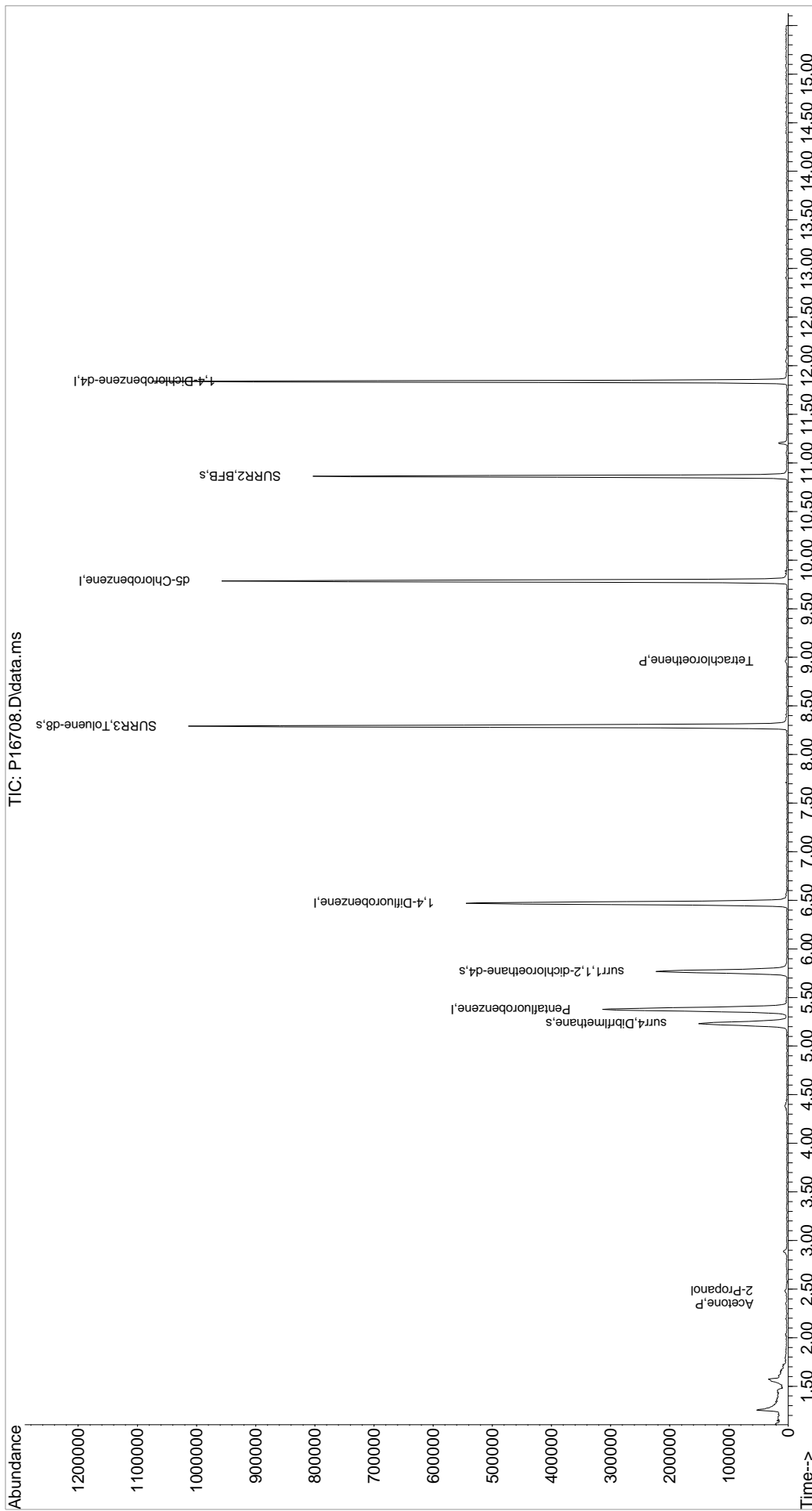
(#) = qualifier out of range (m) = manual integration (+) = signals summed

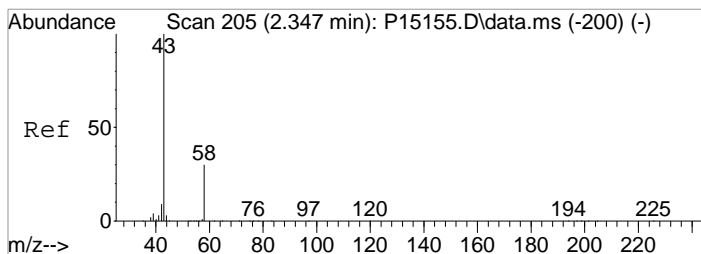
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa12\Data\032718\
Data File : P16708.D
Acq On : 27 Mar 2018 4:10 pm
Operator : K.Ruest
Sample : R1802551-001|1.0
Misc : VERINA 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

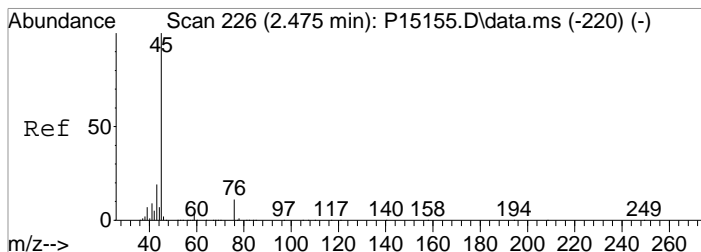
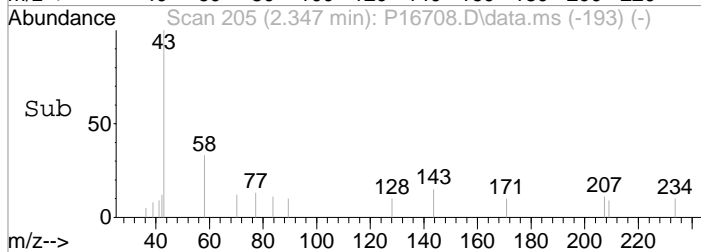
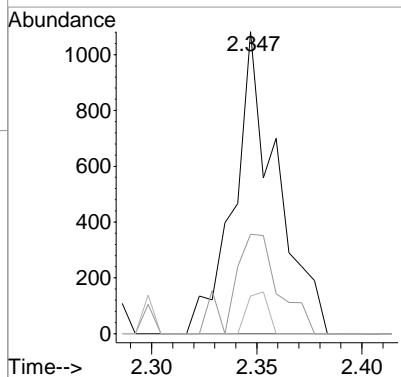
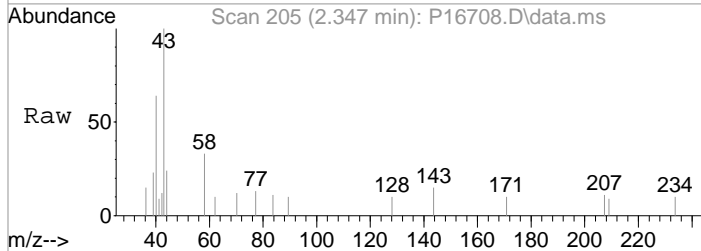
Quant Time: Mar 27 17:08:03 2018
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration





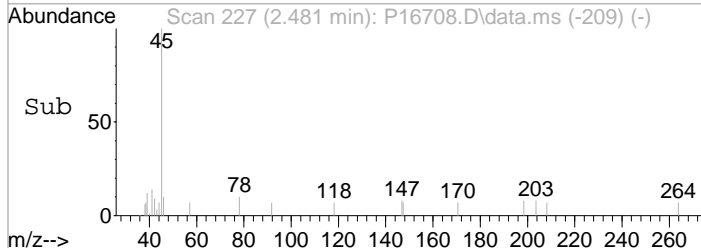
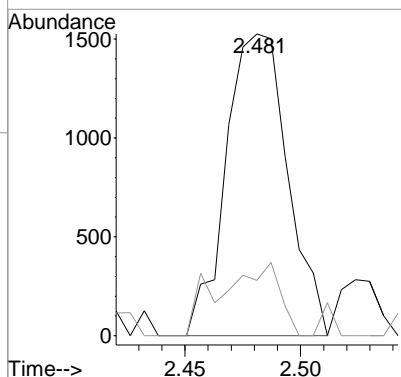
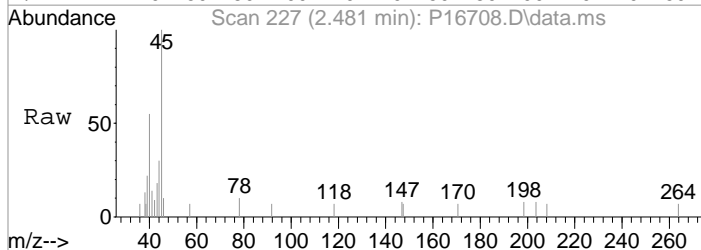
#15
 Acetone
 Concen: 0.89 ppb
 RT: 2.347 min Scan# 205
 Delta R.T. -0.000 min
 Lab File: P16708.D
 Acq: 27 Mar 2018 4:10 pm

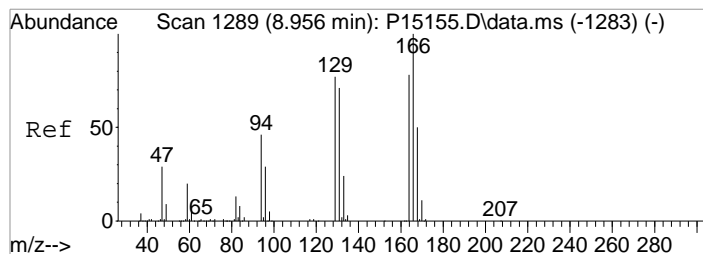
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1530 | | |
| 58 | 32.9 | 9.7 | 49.7 |
| 42 | 12.5 | 0.0 | 29.2 |



#16
 2-Propanol
 Concen: 8.63 ppb
 RT: 2.481 min Scan# 227
 Delta R.T. -0.000 min
 Lab File: P16708.D
 Acq: 27 Mar 2018 4:10 pm

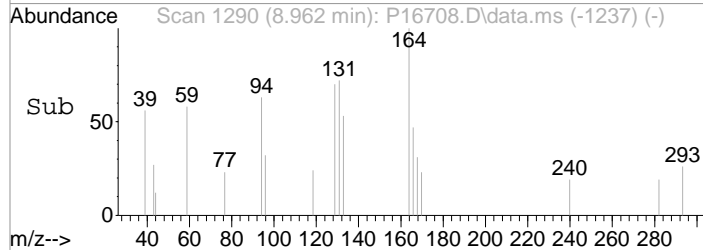
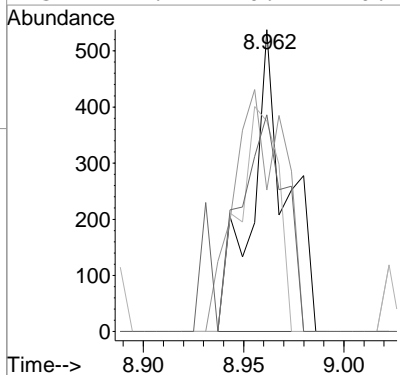
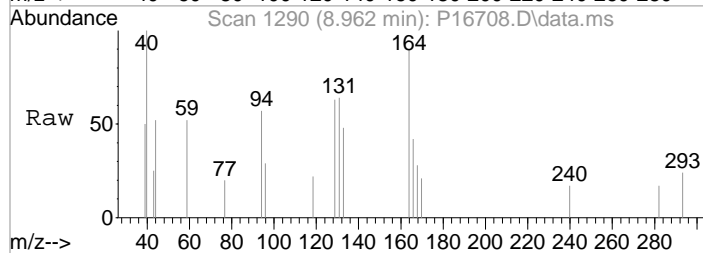
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 2839 | | |
| 43 | 18.3 | 0.0 | 39.6 |





#72
 Tetrachloroethene
 Concen: 0.29 ppb m
 RT: 8.962 min Scan# 1290
 Delta R.T. -0.006 min
 Lab File: P16708.D
 Acq: 27 Mar 2018 4:10 pm

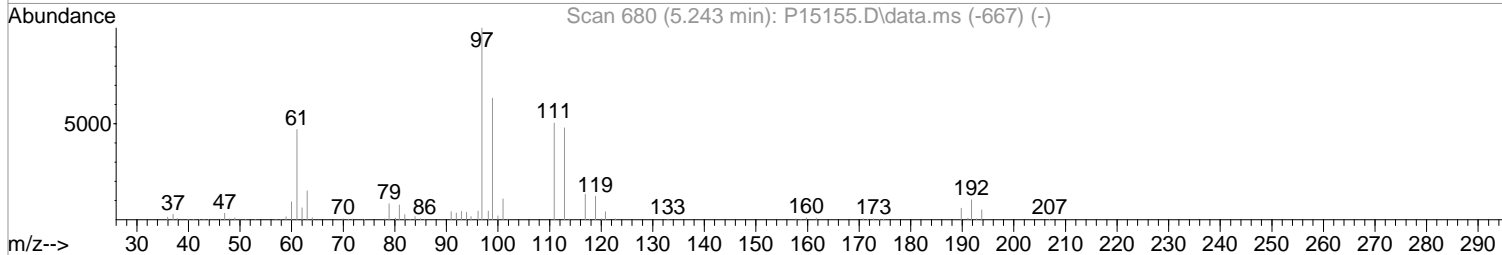
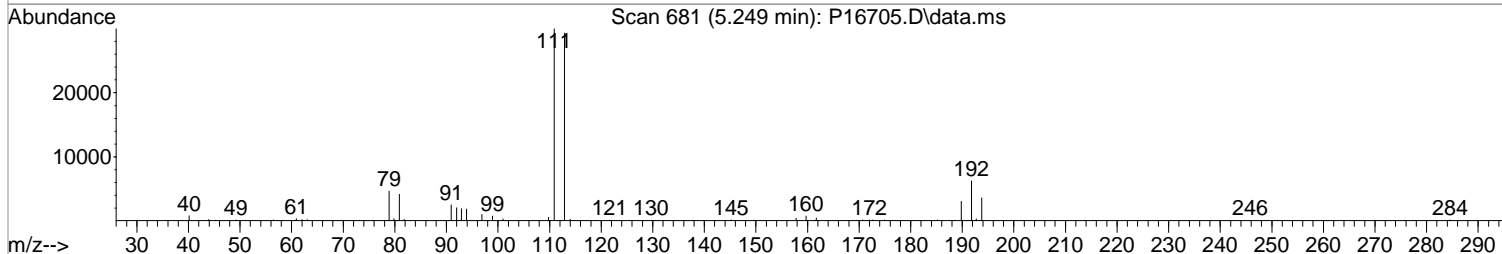
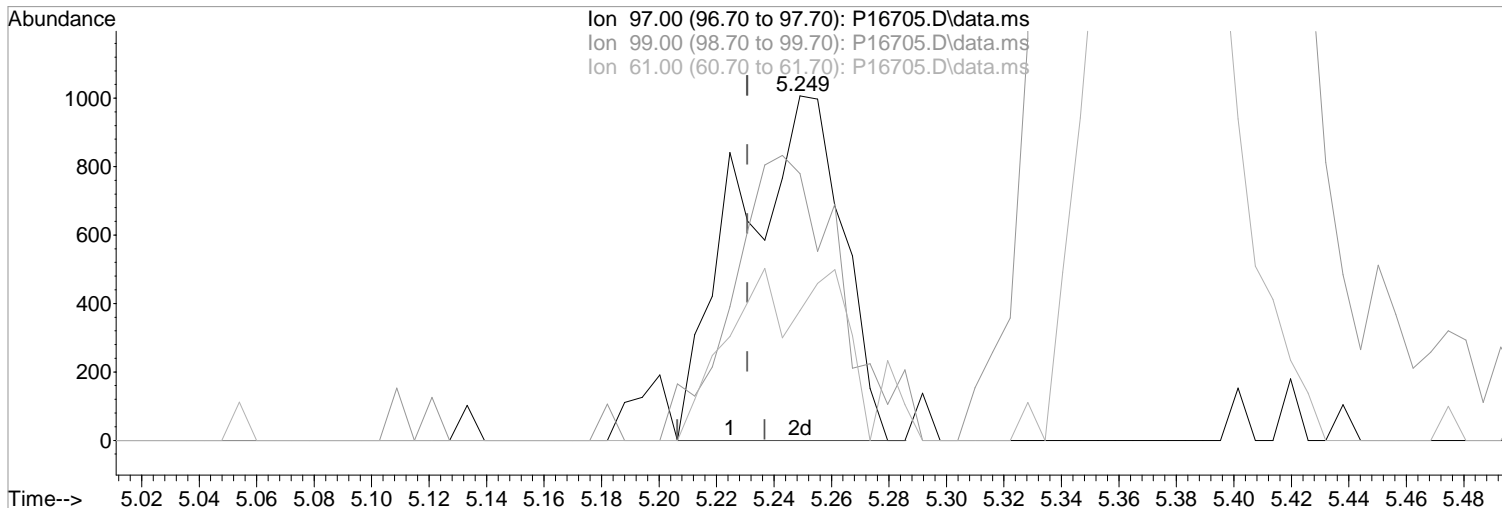
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 164 | 100 | | |
| 166 | 46.8 | 107.2 | 147.2# |
| 129 | 69.7 | 77.5 | 117.5# |
| 131 | 71.7 | 70.2 | 110.2 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16705.D
Acq On : 27 Mar 2018 3:05 pm
Operator : K.Ruest
Sample : R1802551-002|1.0
Misc : VERINA 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 15:34:02 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16705.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.249min (+0.018) 0.54 ppb m

response 2539

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 63.10 | 77.36 |
| 61.00 | 46.90 | 37.64 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

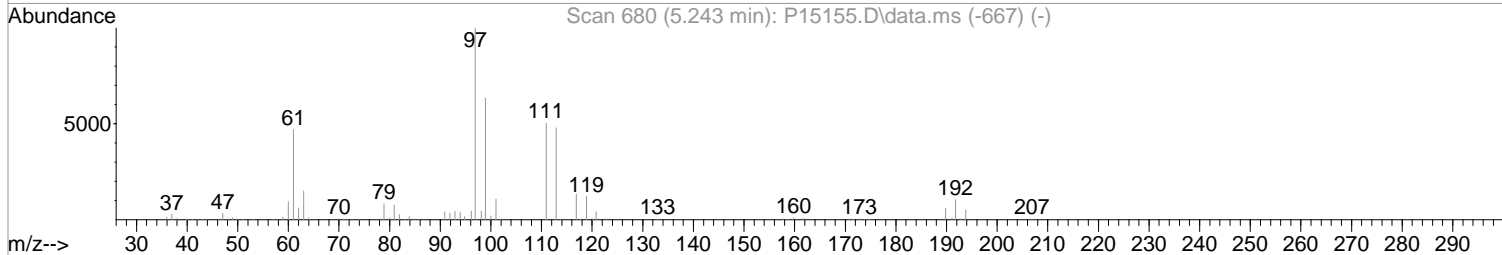
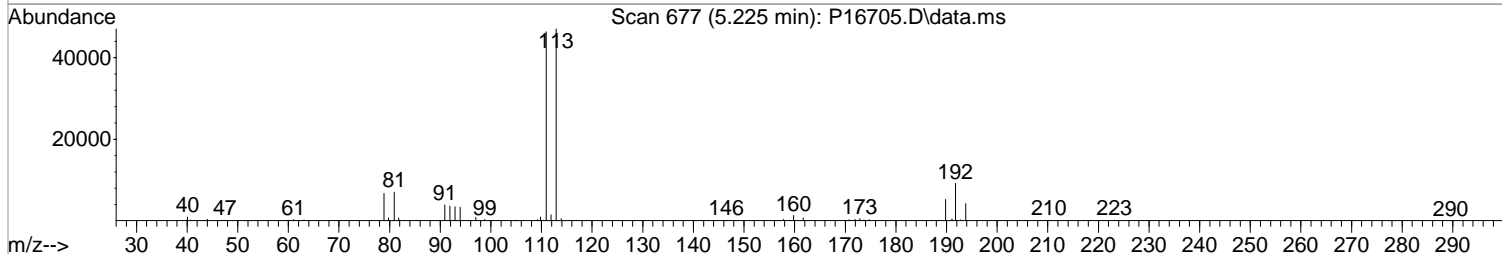
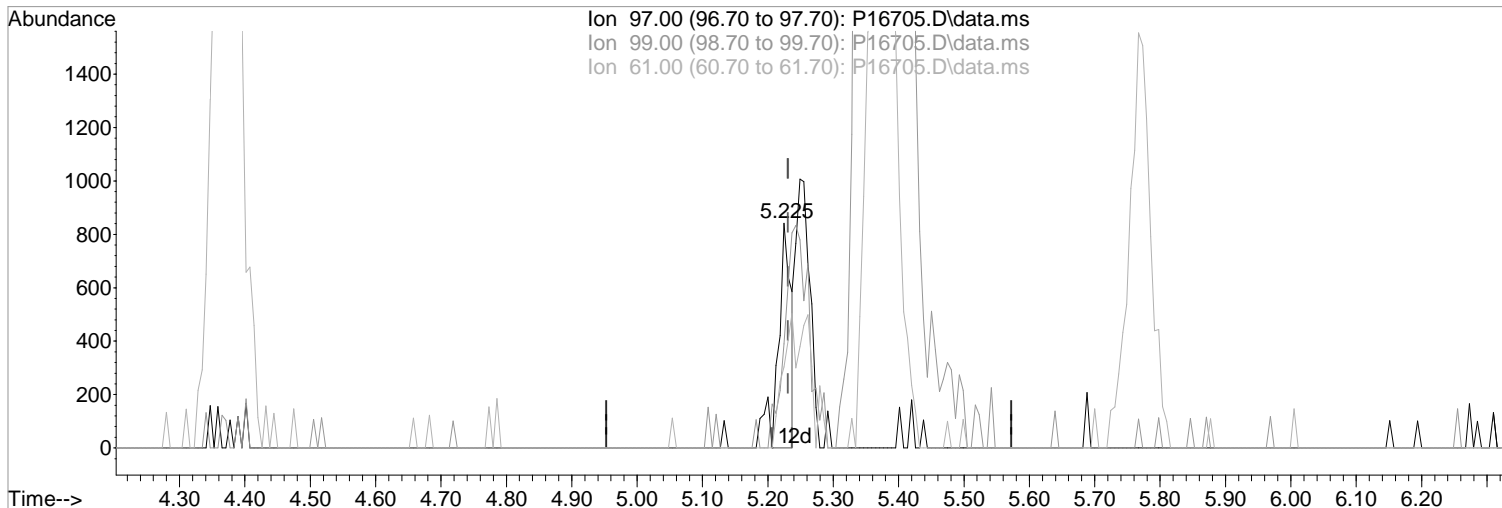
After

Split Peak

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16705.D
Acq On : 27 Mar 2018 3:05 pm
Operator : K.Ruest
Sample : R1802551-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:34:02 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16705.D\data.ms

(41) 1,1,1-Trichloroethane (P)

Manual Integration:

5.225min (-0.006) 0.22 ppb

Before

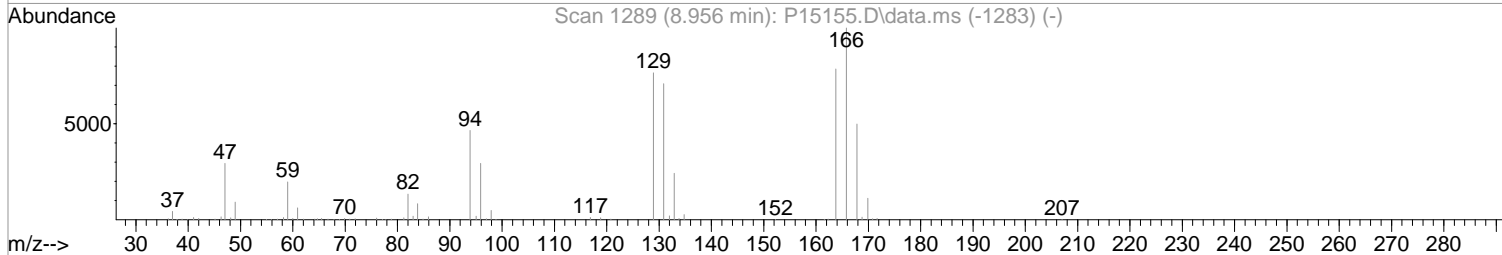
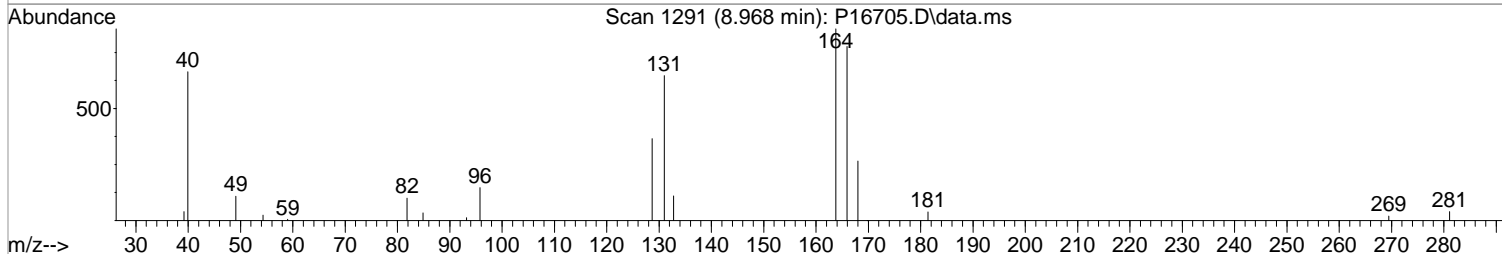
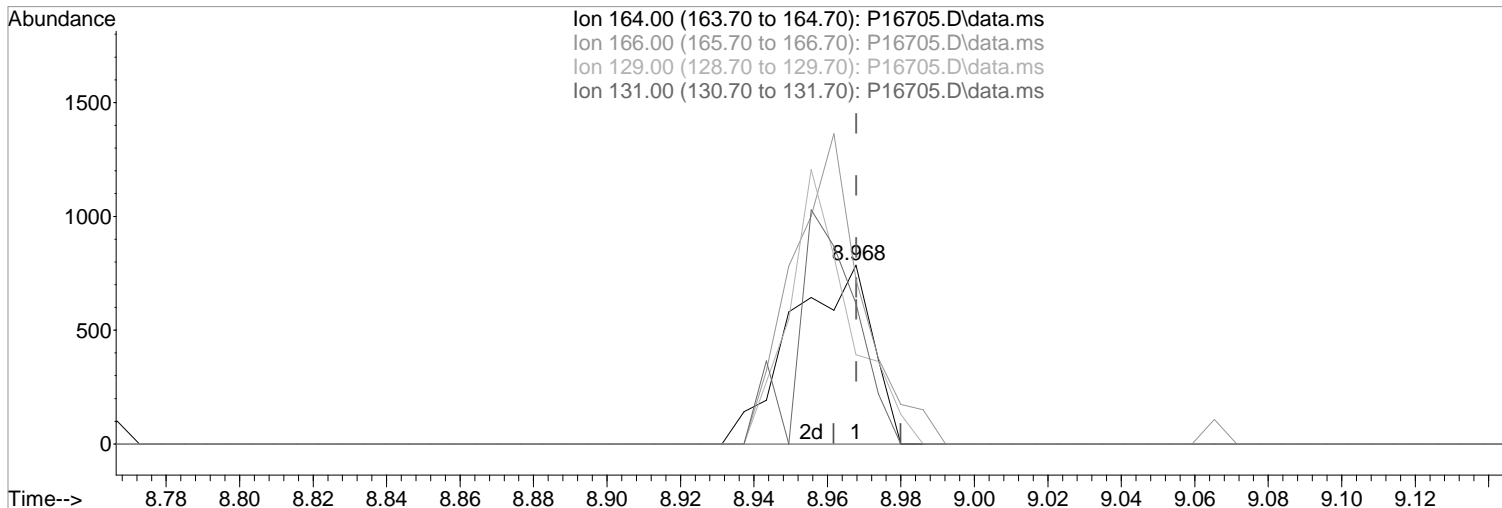
response 1023

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 63.10 | 46.37 |
| 61.00 | 46.90 | 36.03 |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16705.D
 Acq On : 27 Mar 2018 3:05 pm
 Operator : K.Ruest
 Sample : R1802551-002|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:34:02 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration



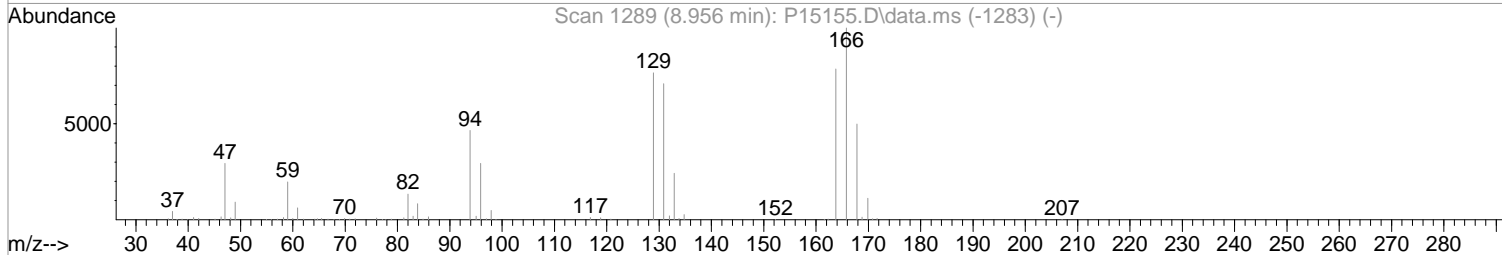
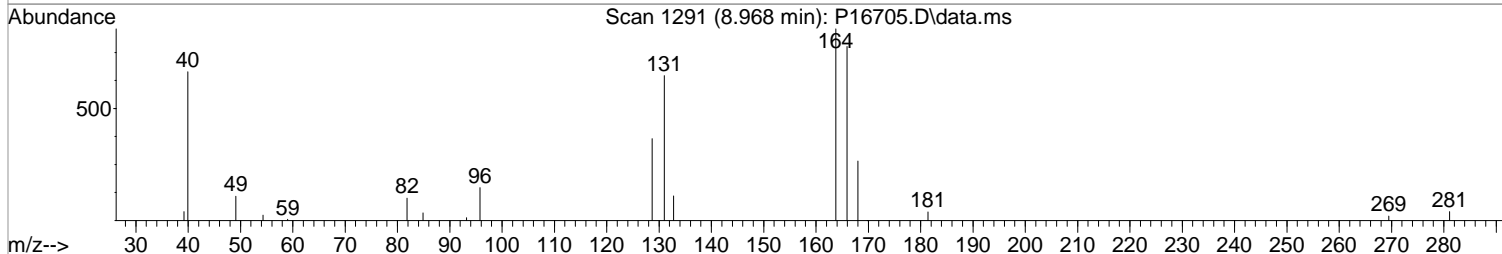
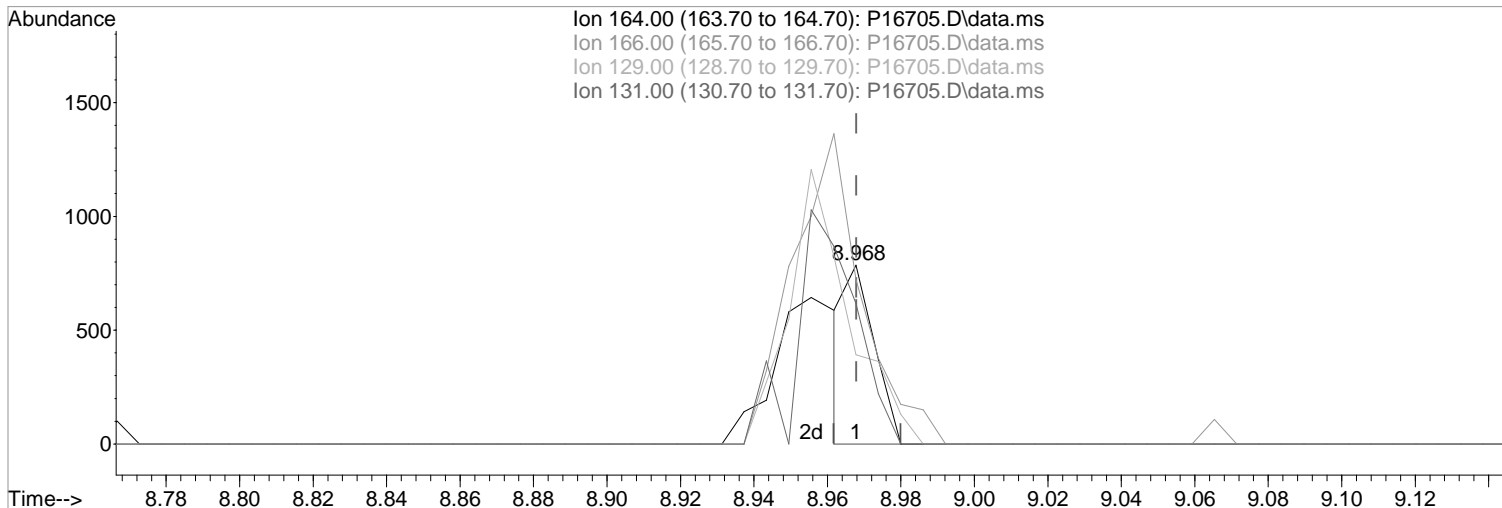
(72) Tetrachloroethene (P)
 8.968min (-0.000) 0.52 ppb m
 response 1207

| Ion | Exp% | Act% |
|--------|--------|--------|
| 164.00 | 100 | 100 |
| 166.00 | 127.20 | 91.97# |
| 129.00 | 97.50 | 49.94# |
| 131.00 | 90.20 | 78.60 |

Manual Integration:
 After
 Split Peak
 03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16705.D
Acq On : 27 Mar 2018 3:05 pm
Operator : K.Ruest
Sample : R1802551-002|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:34:02 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



(72) Tetrachloroethene (P)

8.968min (-0.000) 0.18 ppb
response 423

Manual Integration:

Before

| Ion | Exp% | Act% |
|--------|--------|--------|
| 164.00 | 100 | 100 |
| 166.00 | 127.20 | 91.97# |
| 129.00 | 97.50 | 49.94# |
| 131.00 | 90.20 | 78.60 |

03/27/18

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16705.D
 Acq On : 27 Mar 2018 3:05 pm
 Operator : K.Ruest
 Sample : R1802551-002|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 17:03:45 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

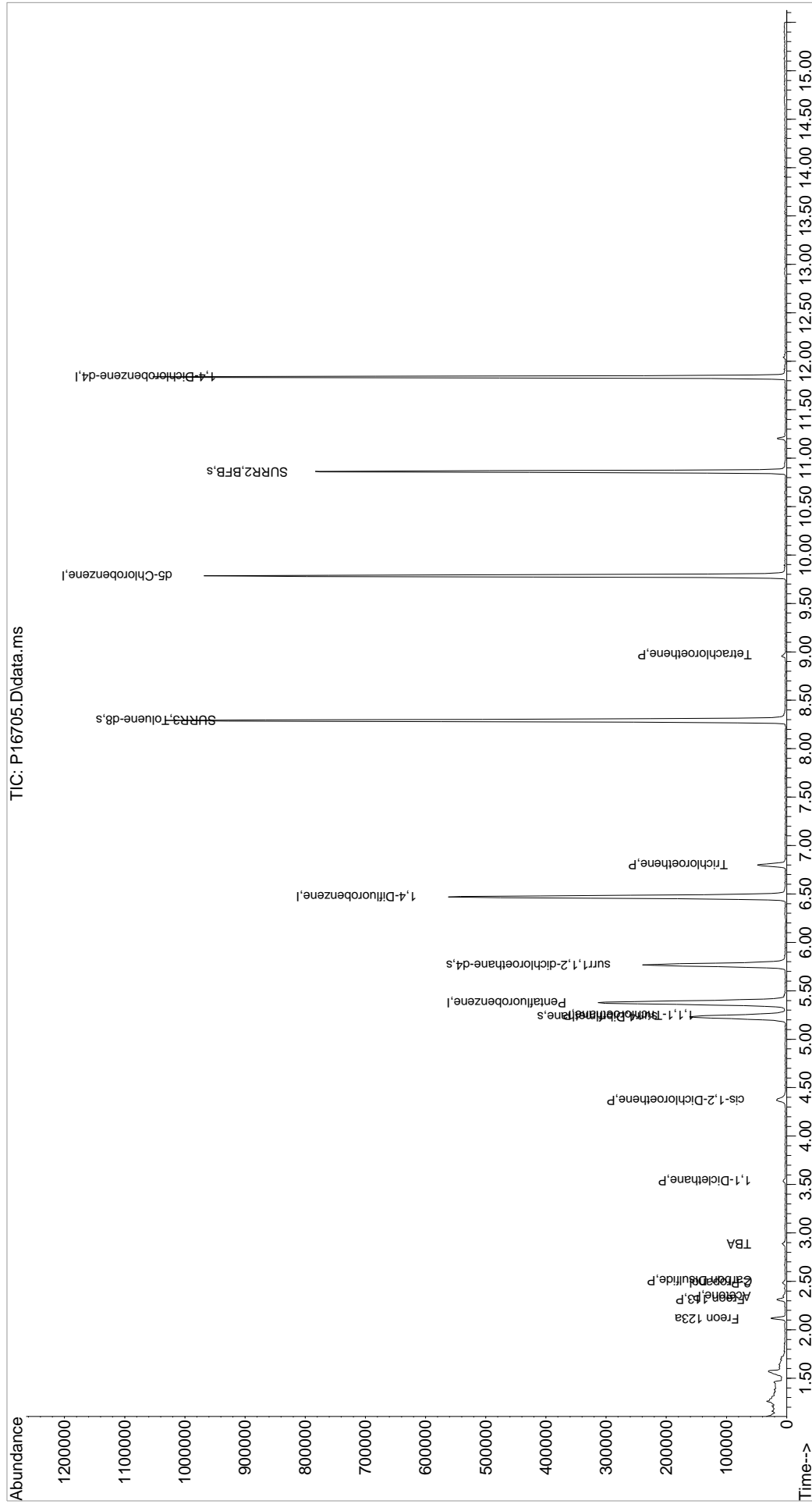
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|---------|-----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 285631 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 482698 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 424525 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 209468 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 133809 | 46.69 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 93.38% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 197579 | 50.31 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 100.62% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 641524 | 50.13 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 100.26% | |
| 70) SURR2,BFB | 10.858 | 95 | 228757 | 46.20 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 92.40% | |
| Target Compounds | | | | | | |
| 10) Freon 123a | 2.115 | 67 | 9651 | 2.80 | ppb | Qvalue 96 |
| 14) Freon 113 | 2.311 | 101 | 4565 | 1.65 | ppb | 81 |
| 15) Acetone | 2.347 | 43 | 3526 | 2.02 | ppb | 95 |
| 16) 2-Propanol | 2.481 | 45 | 3161 | 9.46 | ppb | 91 |
| 18) Carbon Disulfide | 2.506 | 76 | 1973 | 0.23 | ppb | 95 |
| 23) TBA | 2.884 | 59 | 2110 | 3.66 | ppb | 79 |
| 28) 1,1-Dicethane | 3.536 | 63 | 3976 | 0.72 | ppb | 92 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 7420 | 2.17 | ppb # | 73 |
| 41) 1,1,1-Trichloroethane | 5.249 | 97 | 2539m | 0.54 | ppb | |
| 54) Trichloroethene | 6.804 | 130 | 16292 | 5.04 | ppb | 94 |
| 72) Tetrachloroethene | 8.968 | 164 | 1207m | 0.52 | ppb | |

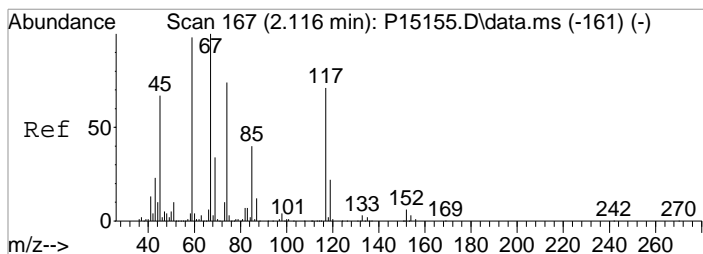
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16705.D
 Acq On : 27 Mar 2018 3:05 pm
 Operator : K.Ruest
 Sample : R1802551-002|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

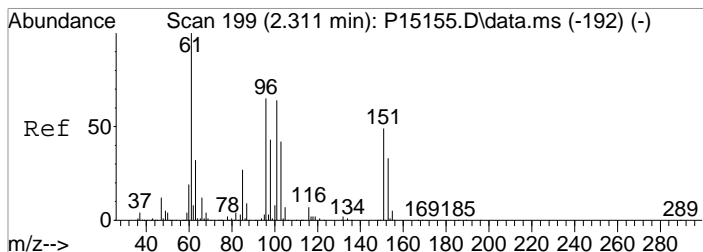
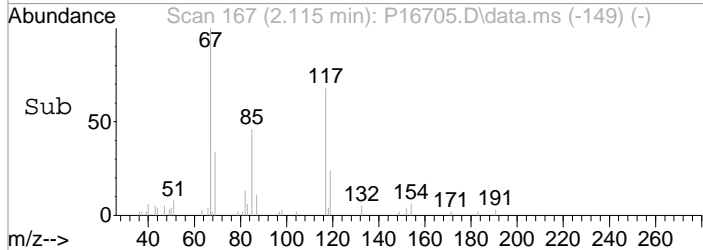
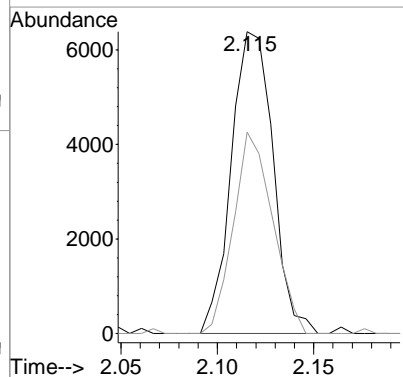
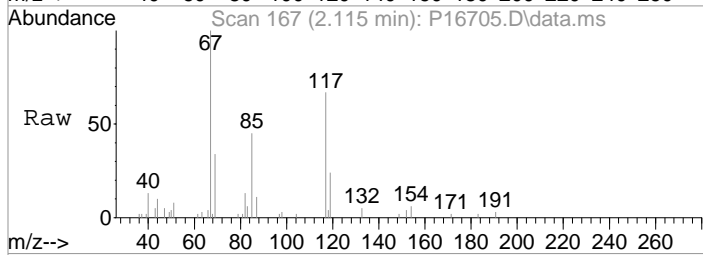
Quant Time: Mar 27 17:03:45 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





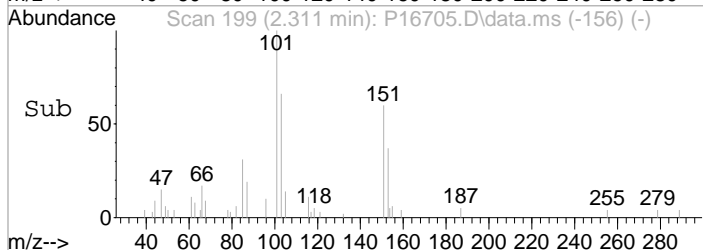
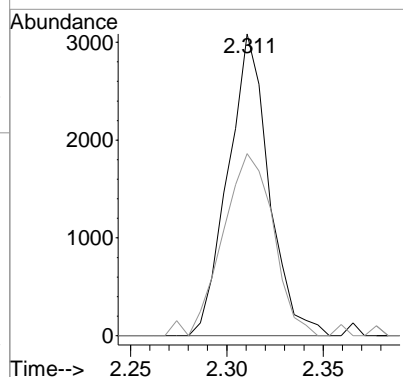
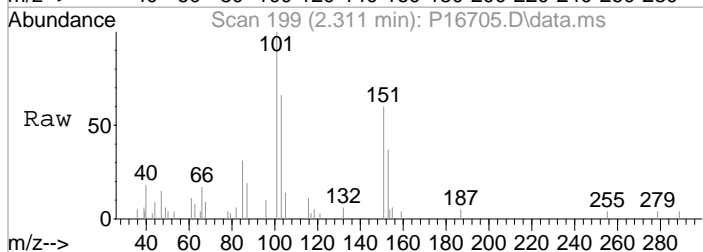
#10
 Freon 123a
 Concen: 2.80 ppb
 RT: 2.115 min Scan# 167
 Delta R.T. -0.006 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

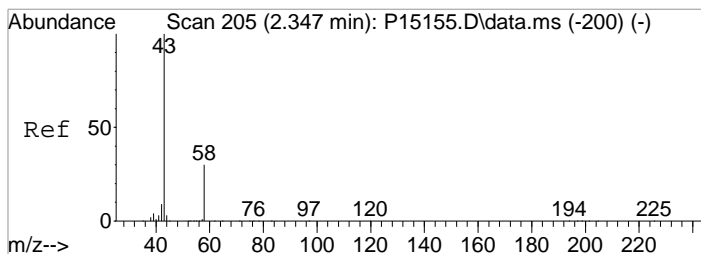
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 67 | 100 | | |
| 117 | 66.6 | 50.3 | 90.3 |



#14
 Freon 113
 Concen: 1.65 ppb
 RT: 2.311 min Scan# 199
 Delta R.T. 0.006 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

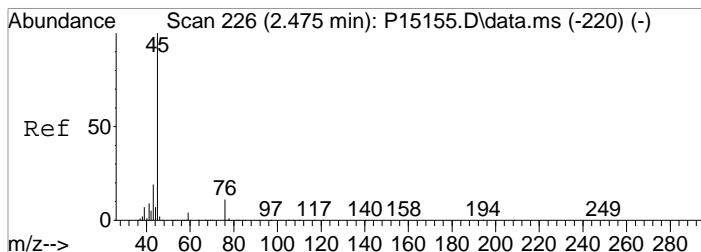
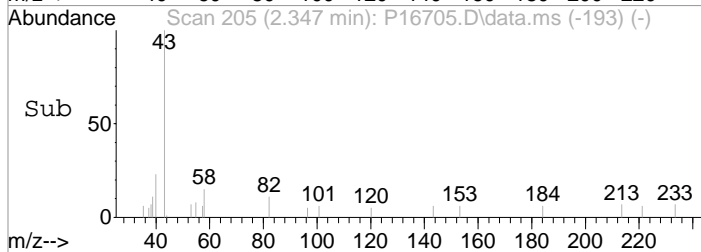
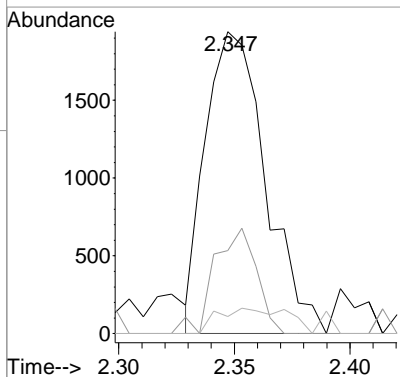
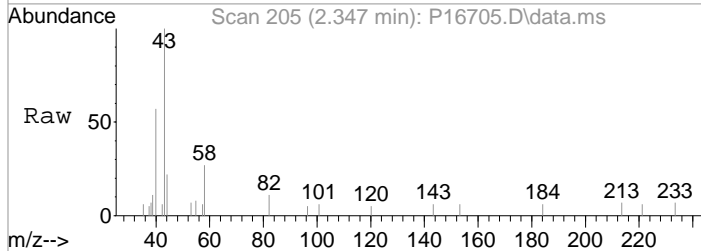
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 100 | | |
| 151 | 60.3 | 56.3 | 96.3 |





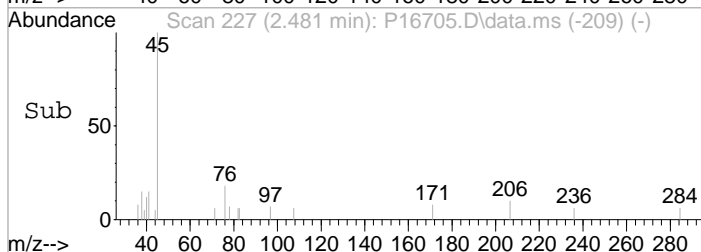
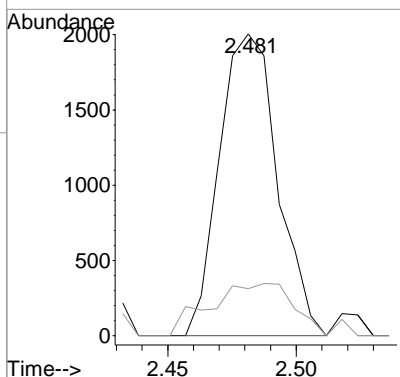
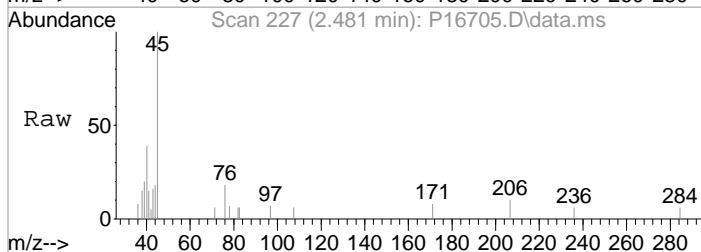
#15
 Acetone
 Concen: 2.02 ppb
 RT: 2.347 min Scan# 205
 Delta R.T. 0.000 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

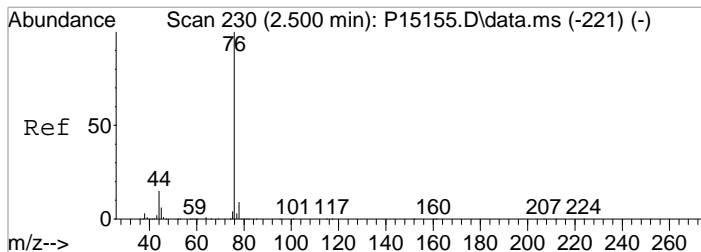
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 3526 | | |
| 58 | 27.5 | 9.7 | 49.7 |
| 42 | 5.6 | 0.0 | 29.2 |



#16
 2-Propanol
 Concen: 9.46 ppb
 RT: 2.481 min Scan# 227
 Delta R.T. -0.000 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

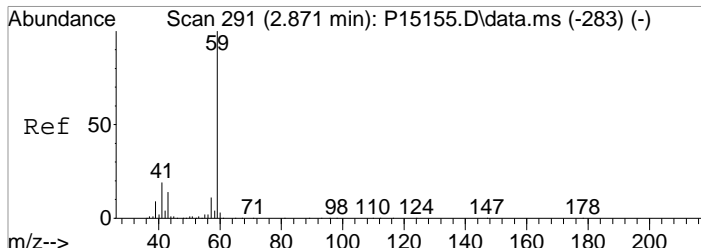
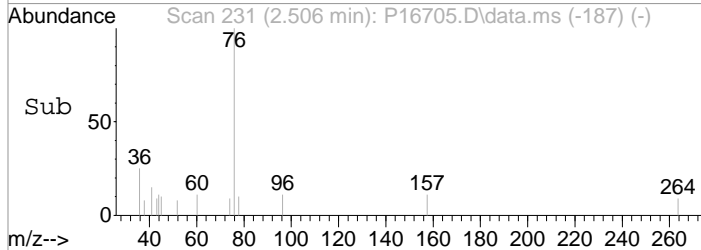
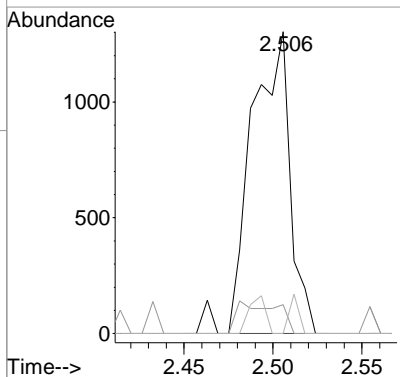
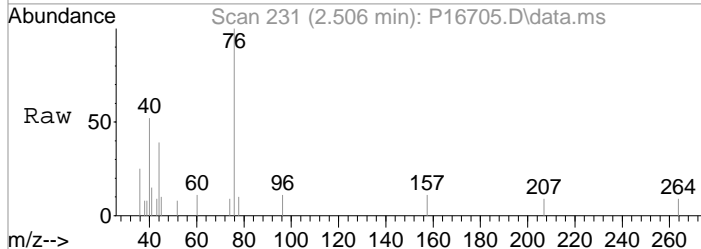
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 3161 | | |
| 43 | 15.6 | 0.0 | 39.6 |





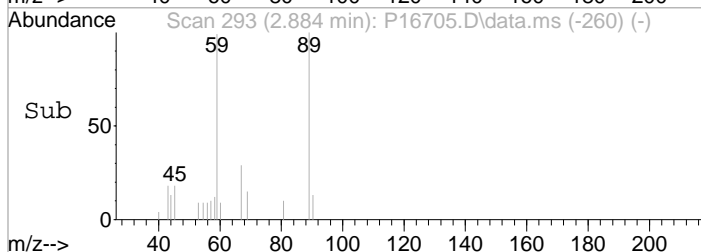
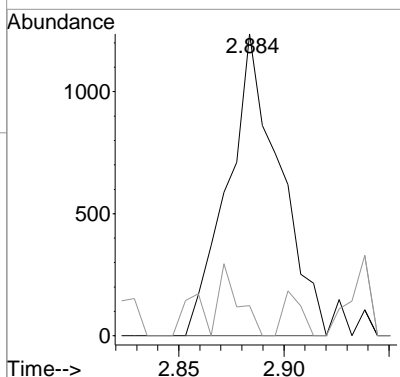
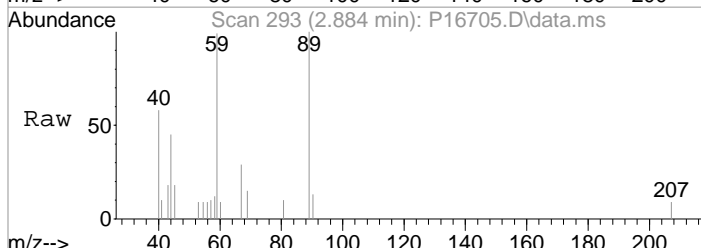
#18
 Carbon Disulfide
 Concen: 0.23 ppb
 RT: 2.506 min Scan# 231
 Delta R.T. 0.012 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

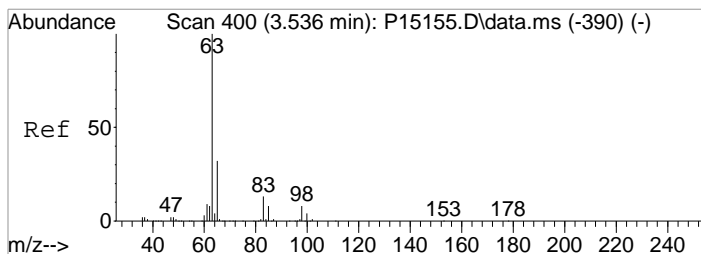
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 76 | 100 | | |
| 78 | 9.6 | 0.0 | 29.5 |
| 77 | 9.6 | 0.0 | 23.1 |



#23
 TBA
 Concen: 3.66 ppb
 RT: 2.884 min Scan# 293
 Delta R.T. 0.012 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

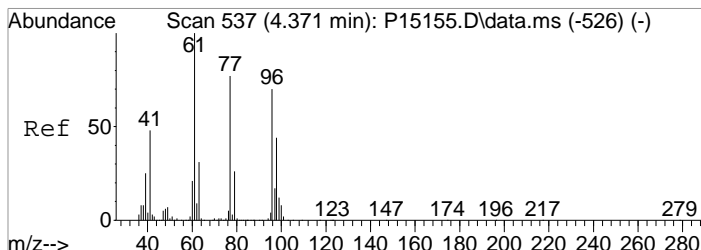
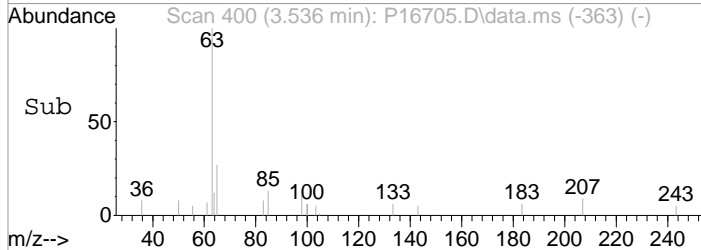
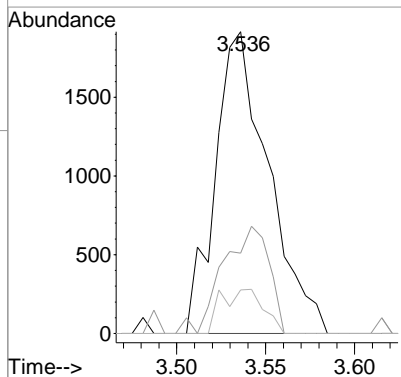
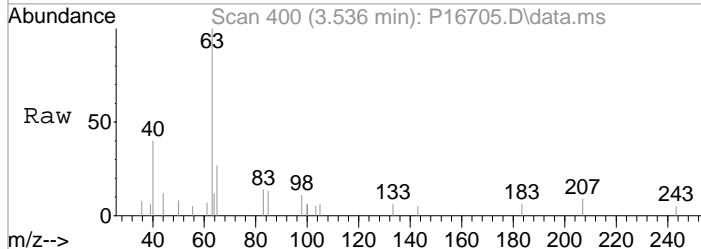
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 100 | | |
| 41 | 9.9 | 0.0 | 39.4 |





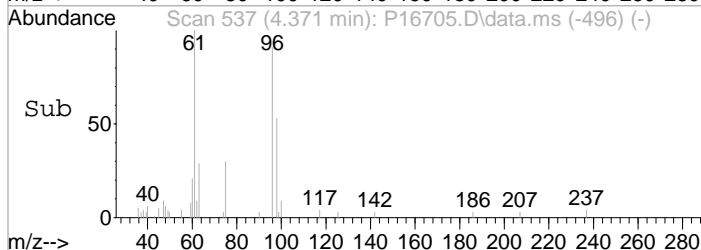
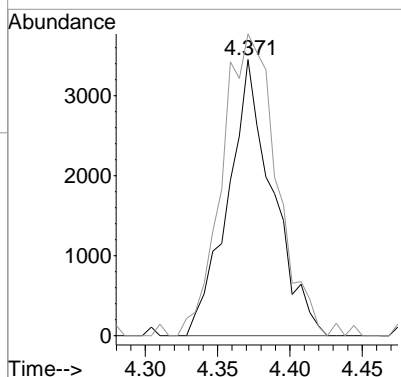
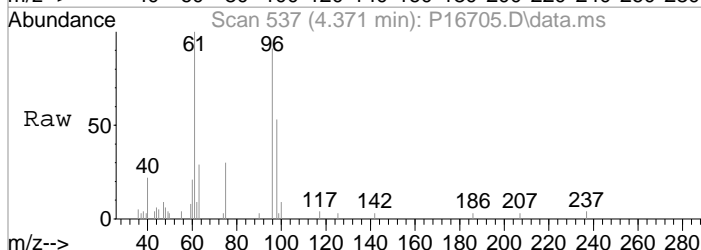
#28
 1,1-Dicylethane
 Concen: 0.72 ppb
 RT: 3.536 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

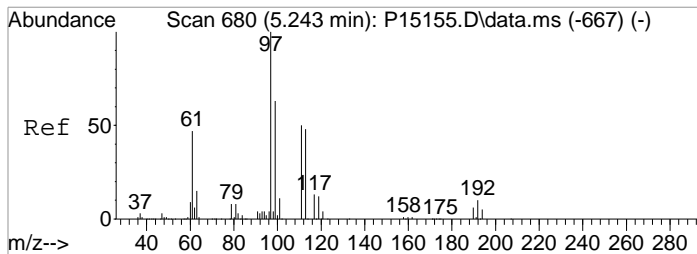
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 63 | 3976 | | |
| 65 | 26.6 | 12.3 | 52.3 |
| 83 | 14.4 | 0.0 | 33.4 |



#34
 cis-1,2-Dichloroethene
 Concen: 2.17 ppb
 RT: 4.371 min Scan# 537
 Delta R.T. -0.006 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

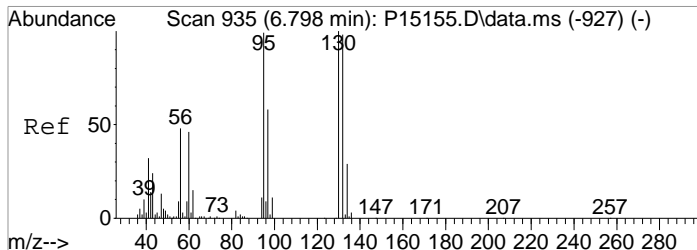
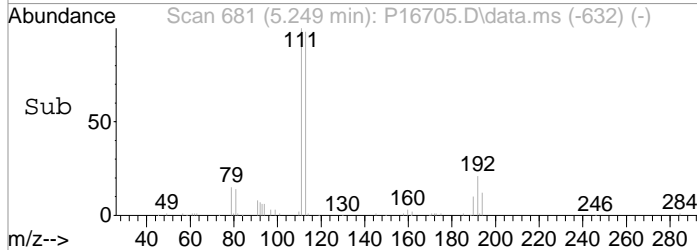
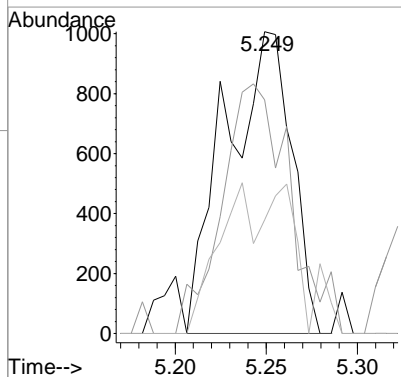
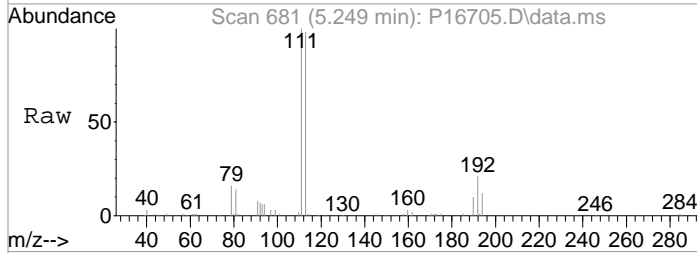
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 96 | 7420 | | |
| 96 | 100 | | |
| 61 | 109.3 | 122.8 | 162.8# |





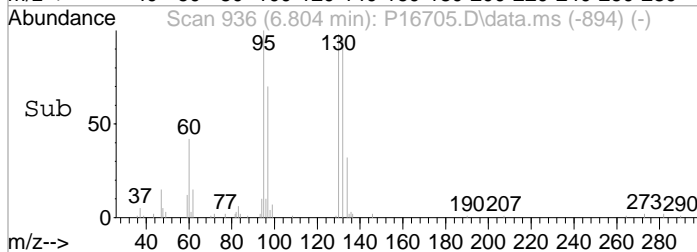
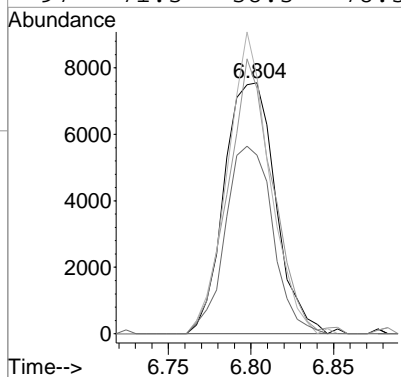
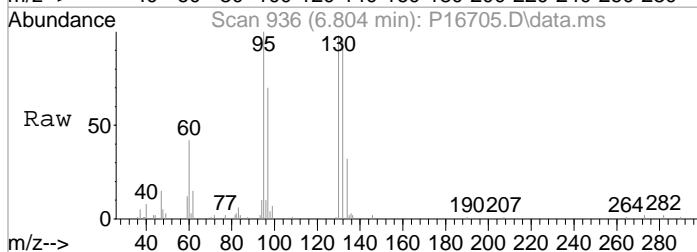
#41
 1,1,1-Trichloroethane
 Concen: 0.54 ppb m
 RT: 5.249 min Scan# 681
 Delta R.T. 0.018 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

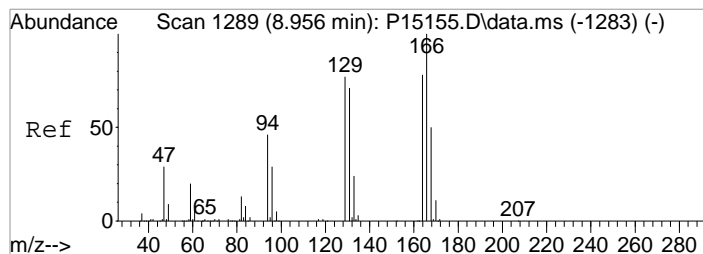
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 100 | | |
| 99 | 77.4 | 43.1 | 83.1 |
| 61 | 37.6 | 26.9 | 66.9 |



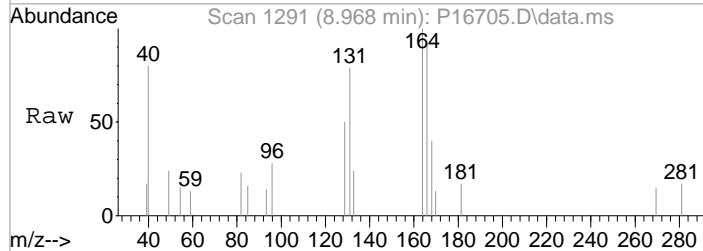
#54
 Trichloroethene
 Concen: 5.04 ppb
 RT: 6.804 min Scan# 936
 Delta R.T. 0.006 min
 Lab File: P16705.D
 Acq: 27 Mar 2018 3:05 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 130 | 100 | | |
| 132 | 97.9 | 78.3 | 118.3 |
| 95 | 102.4 | 78.7 | 118.7 |
| 97 | 71.3 | 38.3 | 78.3 |

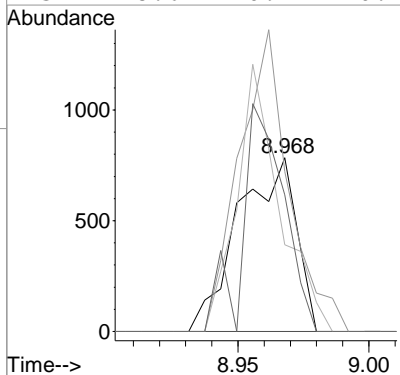
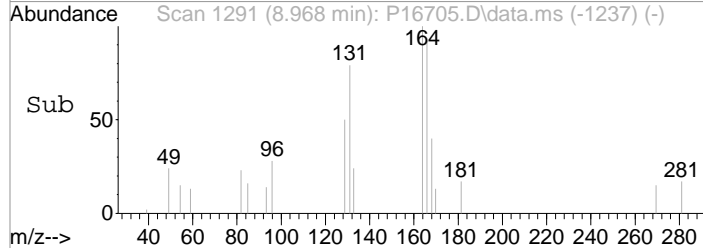




#72
Tetrachloroethene
Concen: 0.52 ppb m
RT: 8.968 min Scan# 1291
Delta R.T. -0.000 min
Lab File: P16705.D
Acq: 27 Mar 2018 3:05 pm



| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 164 | 100 | | |
| 166 | 92.0 | 107.2 | 147.2# |
| 129 | 49.9 | 77.5 | 117.5# |
| 131 | 78.6 | 70.2 | 110.2 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16709.D
 Acq On : 27 Mar 2018 4:32 pm
 Operator : K.Ruest
 Sample : R1802551-007|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 17:09:19 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

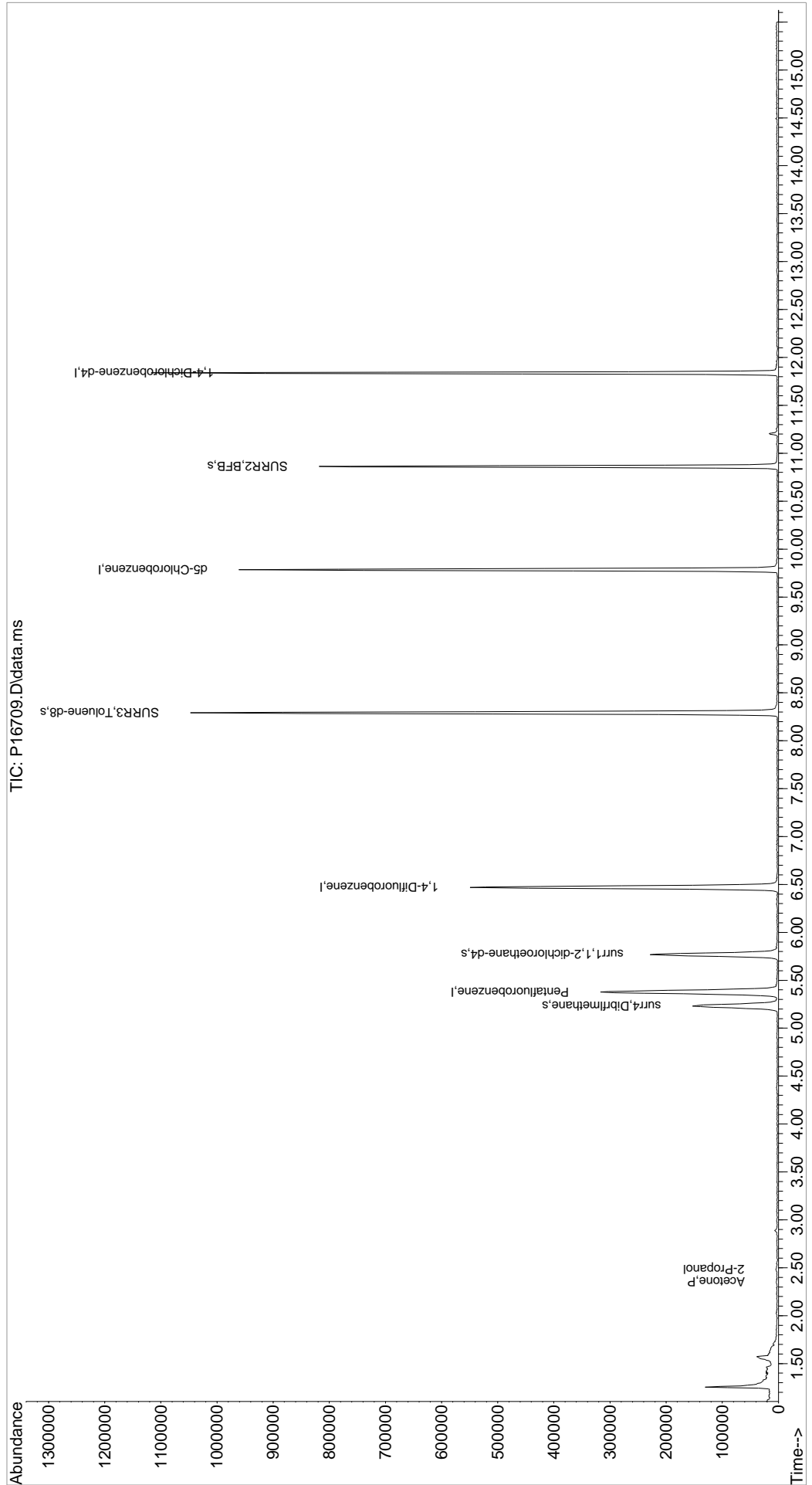
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|--------|-----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 280405 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 474659 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 421343 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 210915 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 128412 | 45.56 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 91.12% | |
| 48) surr1,1,2-dichloroetha... | 5.773 | 65 | 191309 | 49.54 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 99.08% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 627621 | 49.87 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 99.74% | |
| 70) SURR2,BFB | 10.864 | 95 | 228204 | 46.87 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 93.74% | |
| Target Compounds | | | | | | |
| 15) Acetone | 2.353 | 43 | 1957 | 1.14 | ppb | Qvalue 83 |
| 16) 2-Propanol | 2.481 | 45 | 2361 | 7.20 | ppb | 95 |

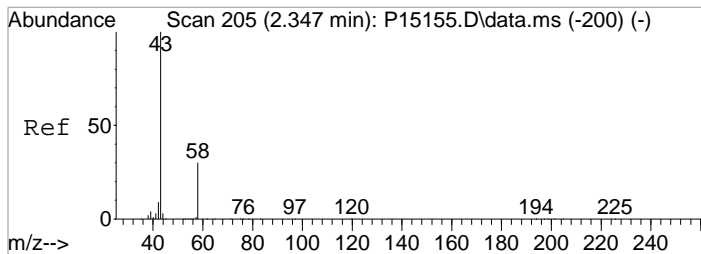
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16709.D
Acq On : 27 Mar 2018 4:32 pm
Operator : K.Ruest
Sample : R1802551-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA-12

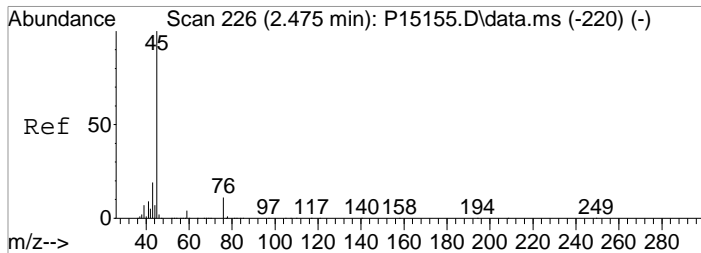
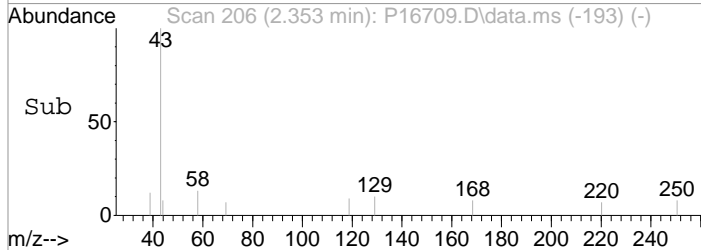
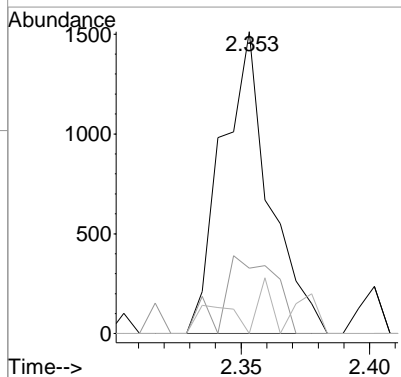
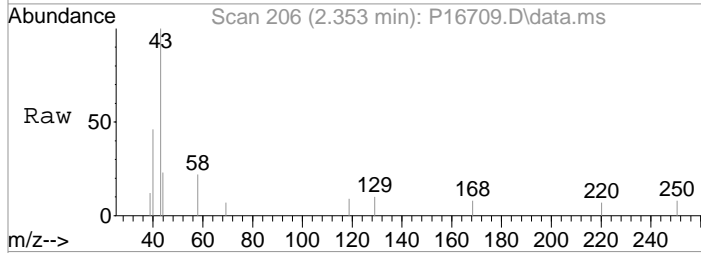
Quant Time: Mar 27 17:09:19 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration





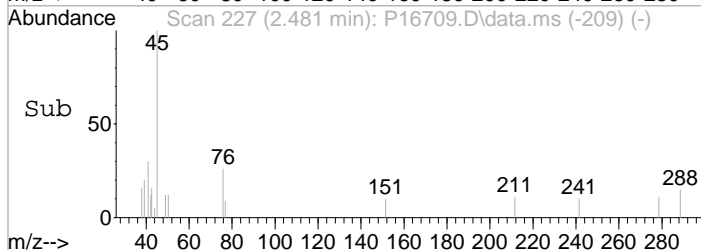
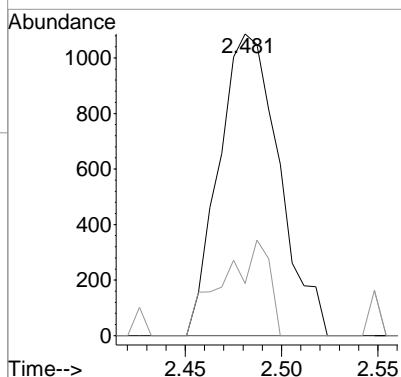
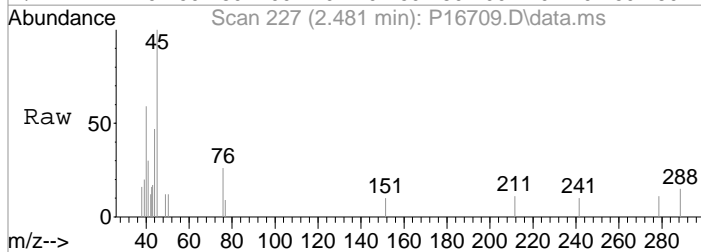
#15
 Acetone
 Concen: 1.14 ppb
 RT: 2.353 min Scan# 206
 Delta R.T. 0.006 min
 Lab File: P16709.D
 Acq: 27 Mar 2018 4:32 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1957 | | |
| 58 | 21.7 | 9.7 | 49.7 |
| 42 | 0.0 | 0.0 | 29.2 |



#16
 2-Propanol
 Concen: 7.20 ppb
 RT: 2.481 min Scan# 227
 Delta R.T. -0.000 min
 Lab File: P16709.D
 Acq: 27 Mar 2018 4:32 pm

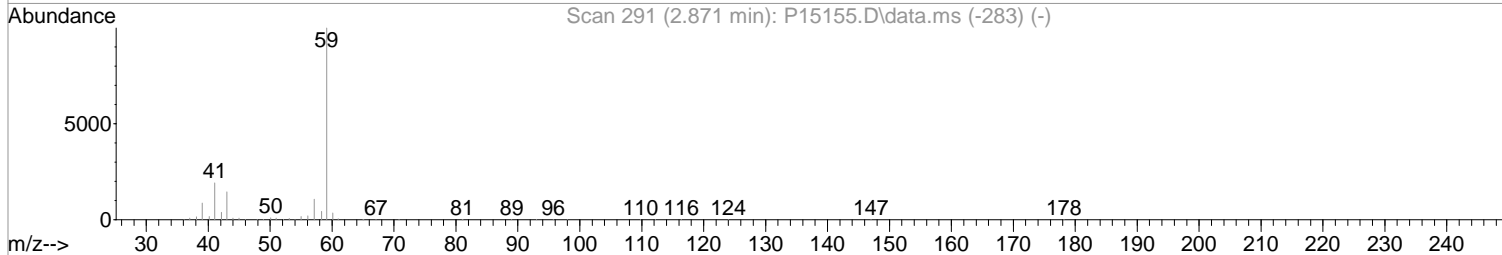
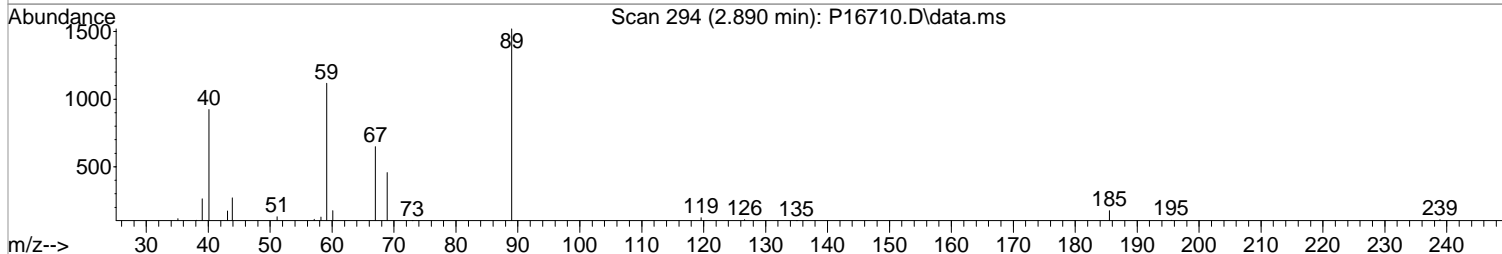
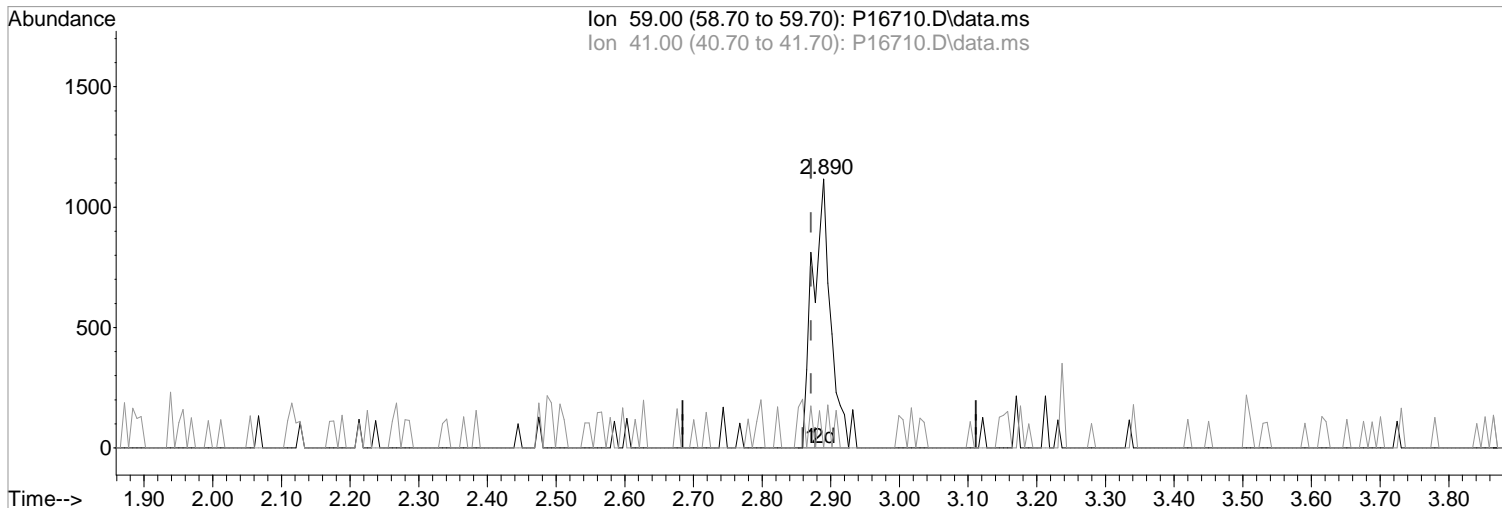
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 2361 | | |
| 43 | 17.3 | 0.0 | 39.6 |



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16710.D
Acq On : 27 Mar 2018 4:54 pm
Operator : K.Ruest
Sample : R1802551-008|1.0
Misc : VERINA 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 17:10:30 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16710.D\data.ms

(23) TBA
2.890min (+0.018) 3.42 ppb m
response 1985

Manual Integration:

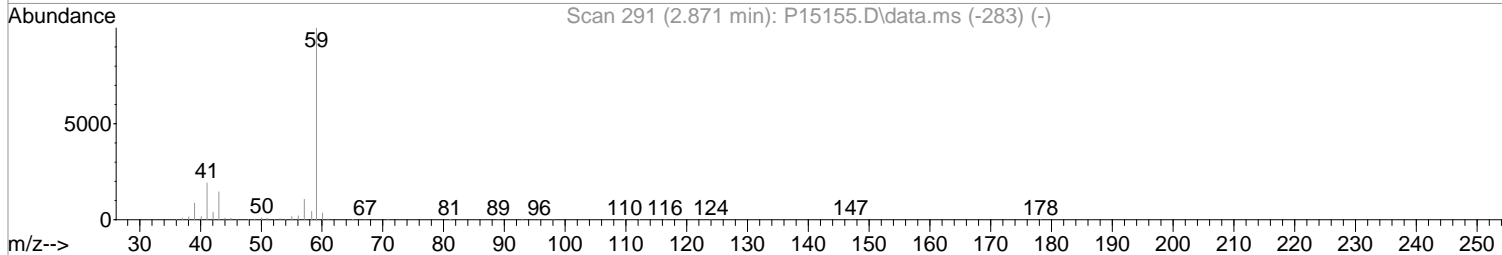
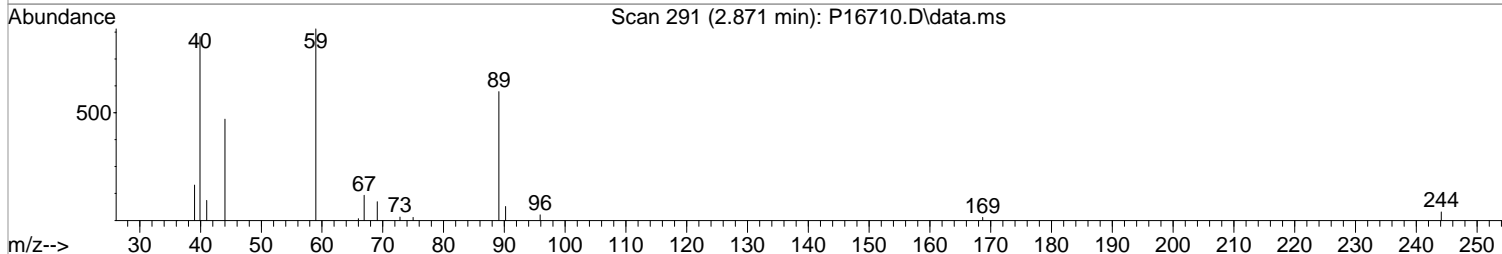
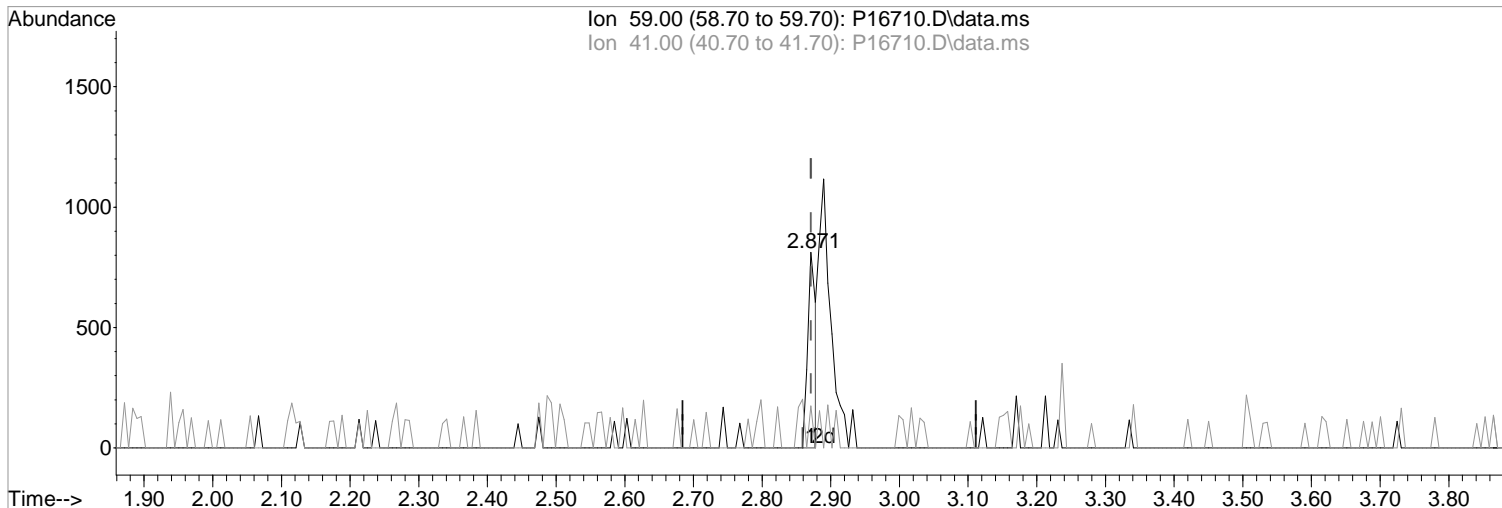
After
Split Peak

| Ion | Exp% | Act% |
|-------|-------|------|
| 59.00 | 100 | 100 |
| 41.00 | 19.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16710.D
Acq On : 27 Mar 2018 4:54 pm
Operator : K.Ruest
Sample : R1802551-008|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 17:10:30 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



(23) TBA Manual Integration:
2.871min (-0.000) 1.09 ppb Before
response 636

| Ion | Exp% | Act% | |
|-------|-------|-------|----------|
| 59.00 | 100 | 100 | 03/27/18 |
| 41.00 | 19.40 | 21.43 | |
| 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16710.D
 Acq On : 27 Mar 2018 4:54 pm
 Operator : K.Ruest
 Sample : R1802551-008|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 17:11:37 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

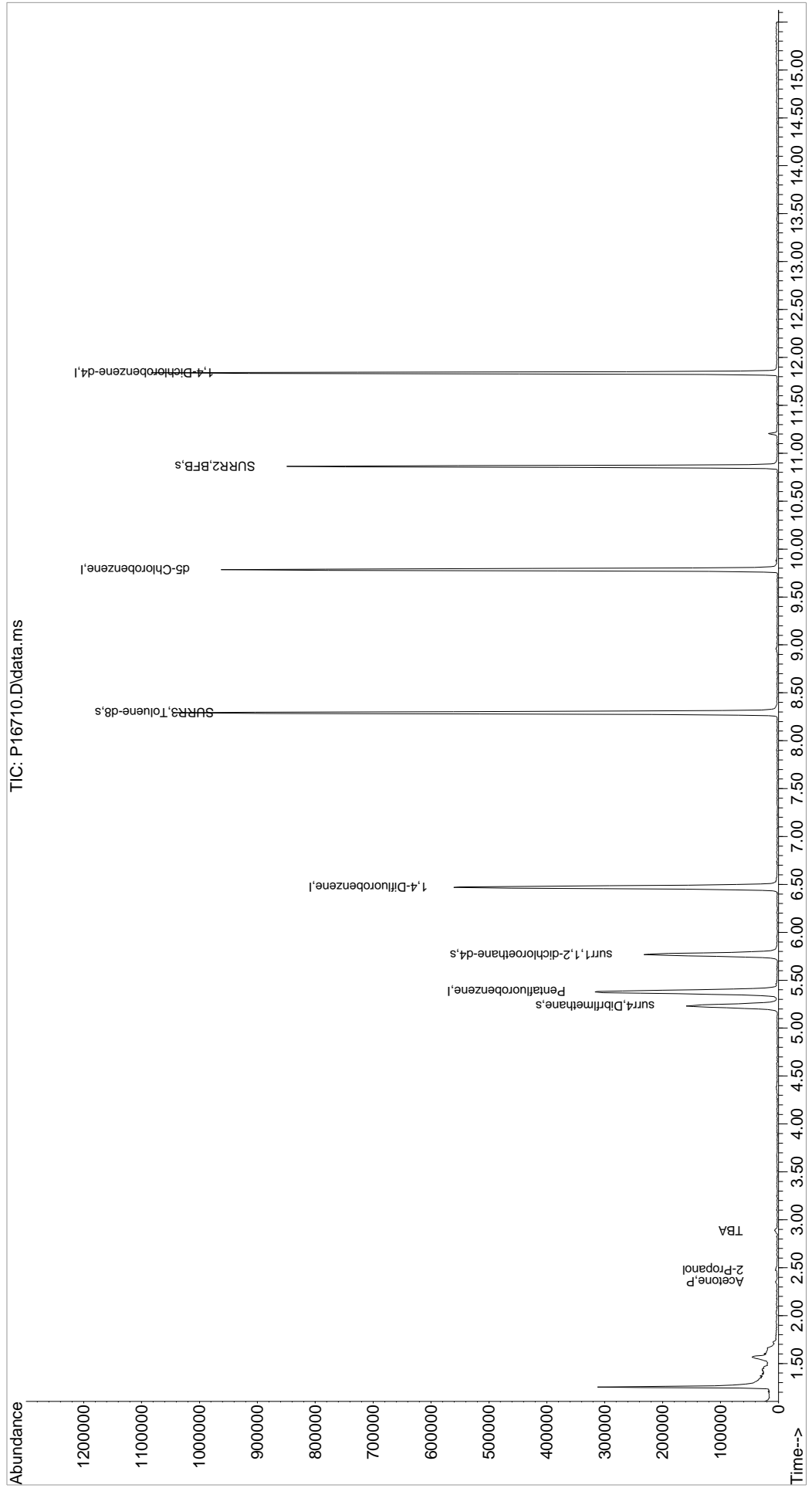
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.383 | 168 | 288147 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.474 | 114 | 487658 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 425042 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 208421 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 133691 | 46.17 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 92.34% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 196474 | 49.52 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 99.04% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 646117 | 49.97 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 99.94% | |
| 70) SURR2,BFB | 10.864 | 95 | 234326 | 46.84 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 93.68% | |
| Target Compounds | | | | | | |
| 15) Acetone | 2.353 | 43 | 1897 | 1.08 | ppb | 84 |
| 16) 2-Propanol | 2.475 | 45 | 2427 | 7.20 | ppb | 89 |
| 23) TBA | 2.890 | 59 | 1985m | 3.42 | ppb | |

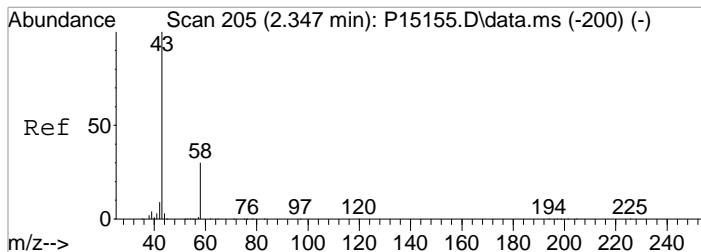
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16710.D
 Acq On : 27 Mar 2018 4:54 pm
 Operator : K.Ruest
 Sample : R1802551-008|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

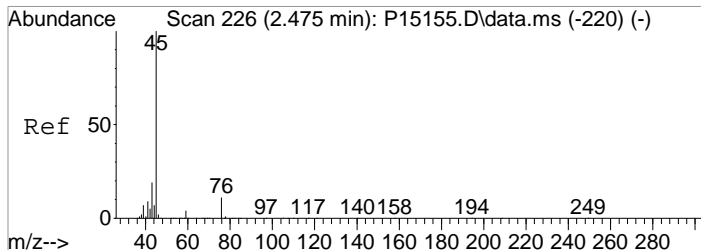
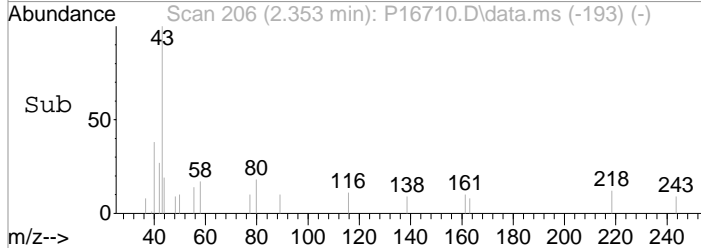
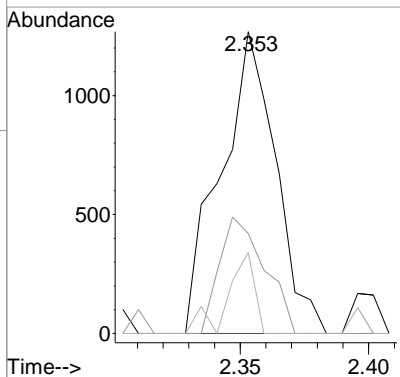
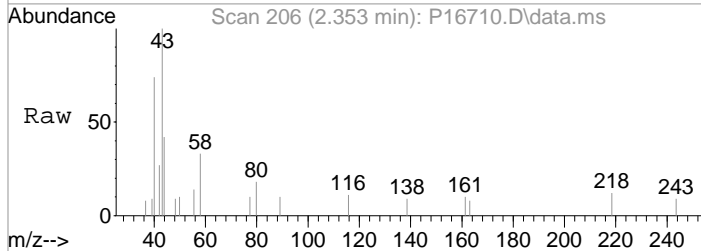
Quant Time: Mar 27 17:11:37 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





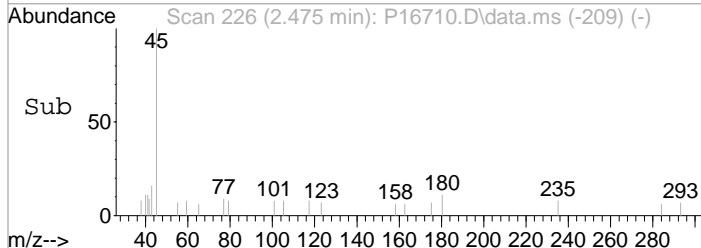
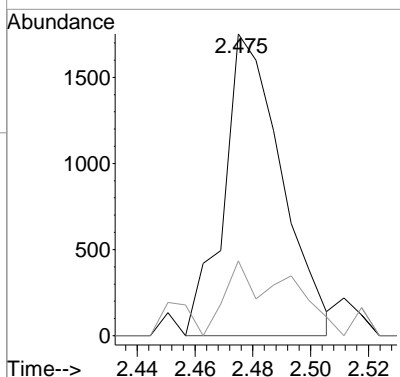
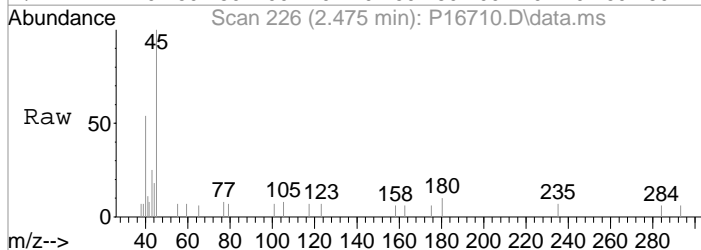
#15
 Acetone
 Concen: 1.08 ppb
 RT: 2.353 min Scan# 206
 Delta R.T. 0.006 min
 Lab File: P16710.D
 Acq: 27 Mar 2018 4:54 pm

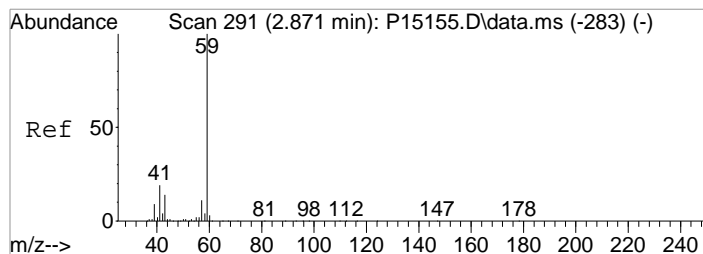
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1897 | | |
| 58 | 33.1 | 9.7 | 49.7 |
| 42 | 26.9 | 0.0 | 29.2 |



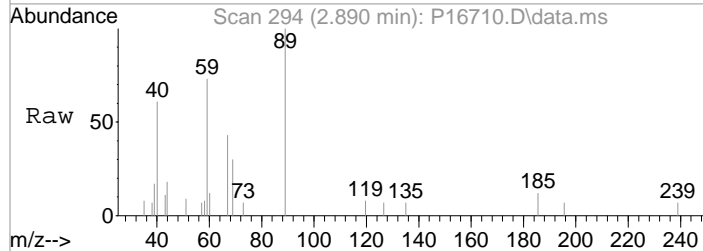
#16
 2-Propanol
 Concen: 7.20 ppb
 RT: 2.475 min Scan# 226
 Delta R.T. -0.006 min
 Lab File: P16710.D
 Acq: 27 Mar 2018 4:54 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 2427 | | |
| 43 | 24.8 | 0.0 | 39.6 |

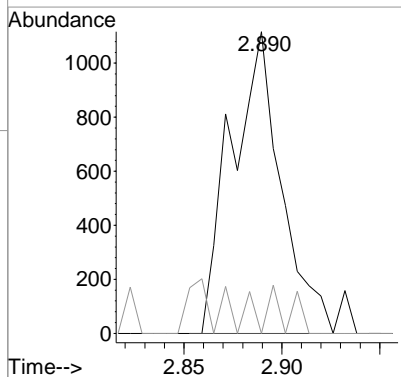
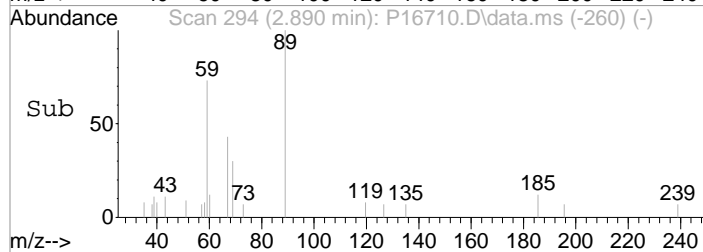




#23
TBA
Concen: 3.42 ppb m
RT: 2.890 min Scan# 294
Delta R.T. 0.018 min
Lab File: P16710.D
Acq: 27 Mar 2018 4:54 pm



| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 1985 | | |
| 59 | 100 | | |
| 41 | 0.0 | 0.0 | 39.4 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16698.D
 Acq On : 27 Mar 2018 12:22 pm
 Operator : K.Ruest
 Sample : VBLK Inst : MSVOA-12
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:17:59 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

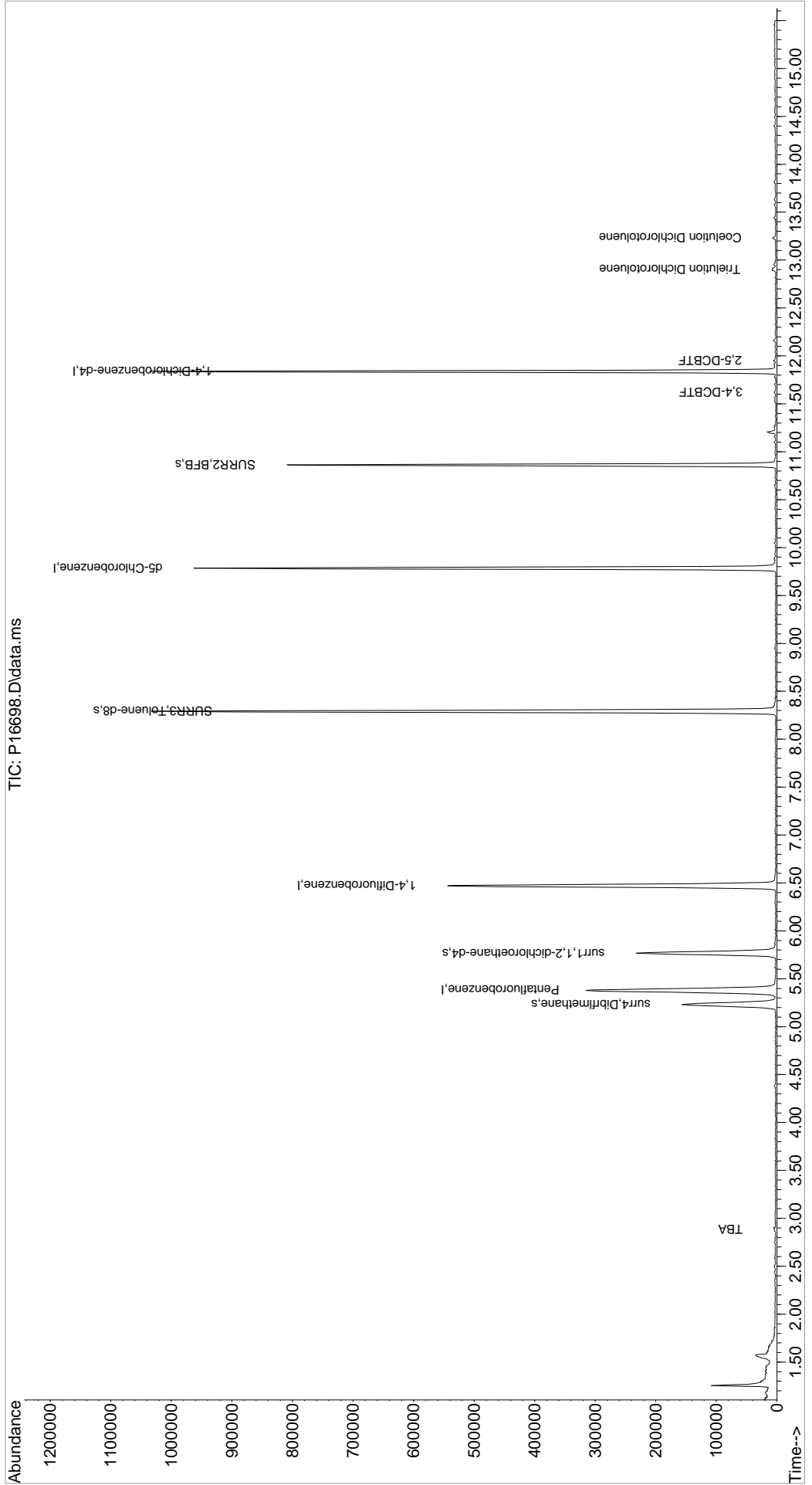
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|-------|------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.383 | 168 | 285373 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 478787 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 414857 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 202807 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 130735 | 45.99 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 91.98% |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 191415 | 49.14 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 98.28% |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 627976 | 49.47 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 98.94% |
| 70) SURR2,BFB | 10.864 | 95 | 223476 | 45.50 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 91.00% |
| Target Compounds | | | | | | |
| 23) TBA | 2.884 | 59 | 1084 | 1.88 | ppb | Qvalue 100 |
| 102) 3,4-DCBTF | 11.620 | 214 | 668 | 0.21 | ppb | # 61 |
| 108) 2,5-DCBTF | 11.949 | 214 | 662 | 0.21 | ppb | # 76 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 2786 | 0.46 | ppb | # 81 |
| 114) Coelution Dichlorotoluene | 13.235 | 125 | 1667 | 0.26 | ppb | # 89 |

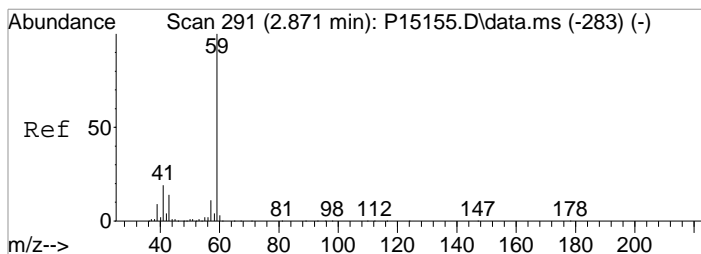
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\032718\
Data File : P16698.D
Acq On : 27 Mar 2018 12:22 pm
Operator : K.Ruest
Sample : VBLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

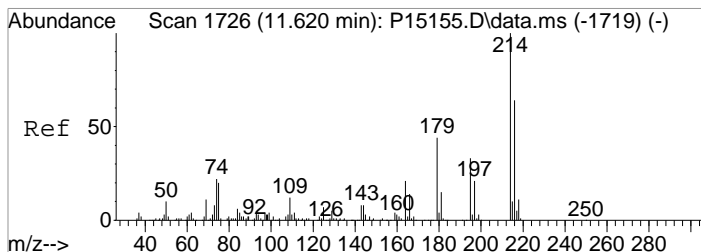
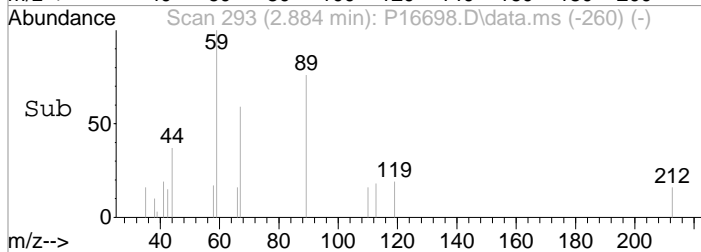
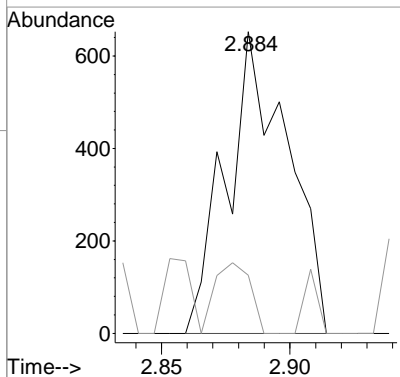
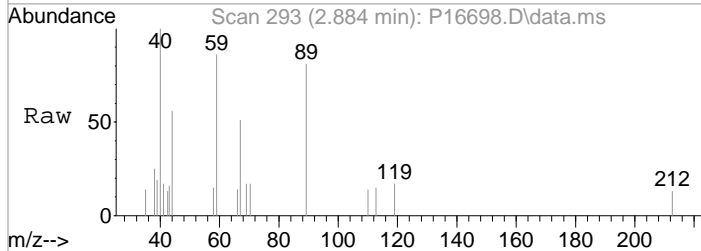
Quant Time: Mar 27 14:17:59 2018
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration





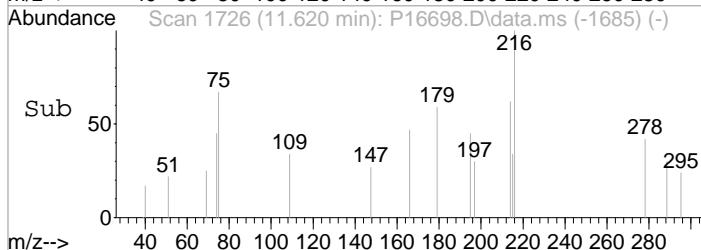
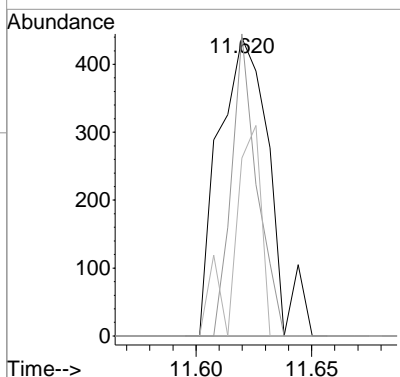
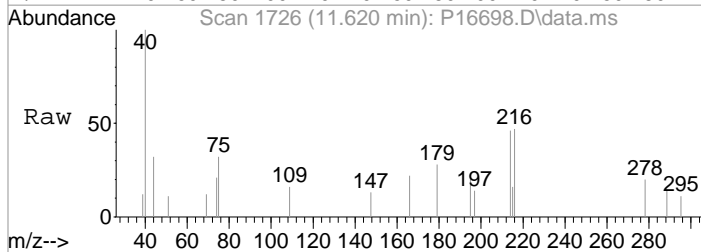
#23
 TBA
 Concen: 1.88 ppb
 RT: 2.884 min Scan# 293
 Delta R.T. 0.012 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

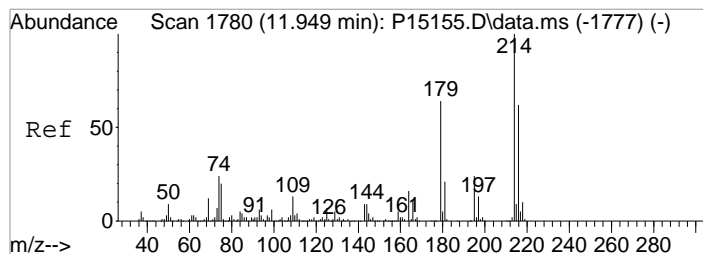
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 1084 | | |
| 41 | 19.3 | 0.0 | 39.4 |



#102
 3,4-DCBTF
 Concen: 0.21 ppb
 RT: 11.620 min Scan# 1726
 Delta R.T. 0.000 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

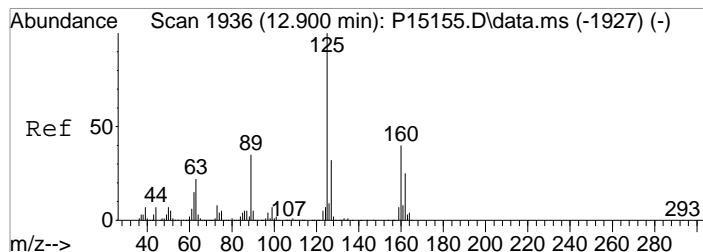
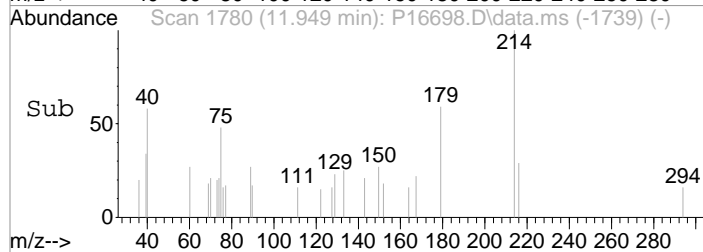
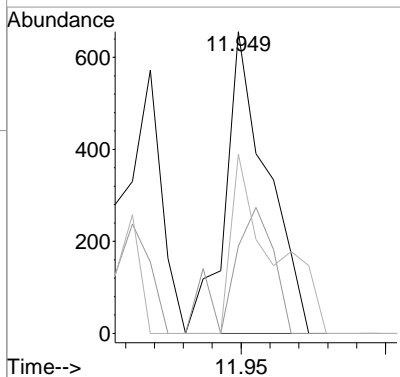
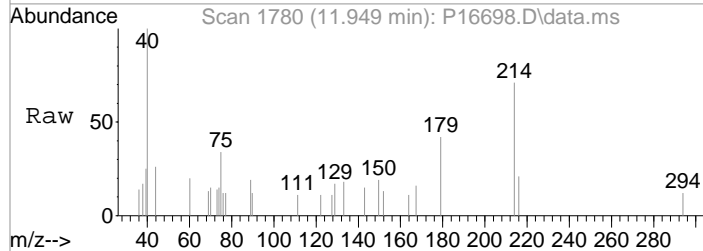
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 214 | 668 | | |
| 216 | 101.4 | 51.0 | 76.6# |
| 179 | 59.7 | 34.9 | 52.3# |





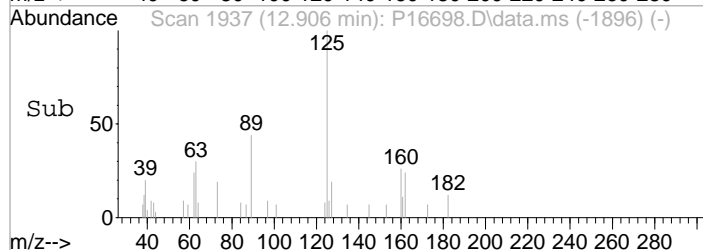
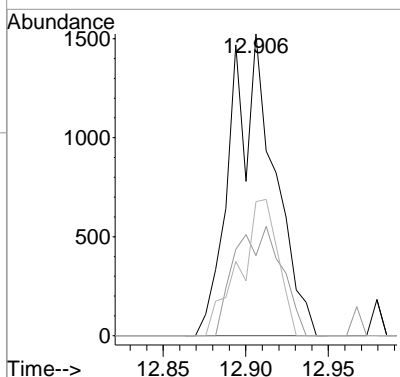
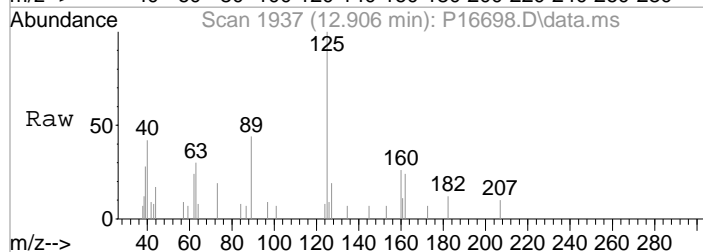
#108
 2,5-DCBTF
 Concen: 0.21 ppb
 RT: 11.949 min Scan# 1780
 Delta R.T. 0.000 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

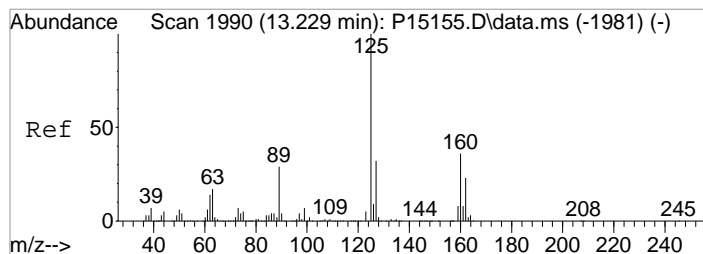
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 214 | 100 | | |
| 216 | 29.0 | 49.6 | 74.4# |
| 179 | 59.3 | 51.6 | 77.4 |



#112
 Trielution Dichlorotoluene
 Concen: 0.46 ppb
 RT: 12.906 min Scan# 1937
 Delta R.T. 0.000 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

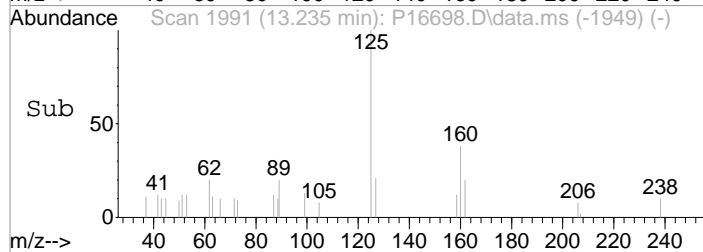
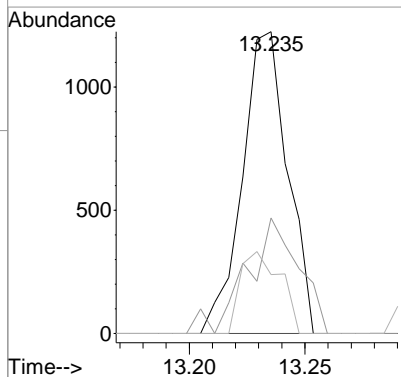
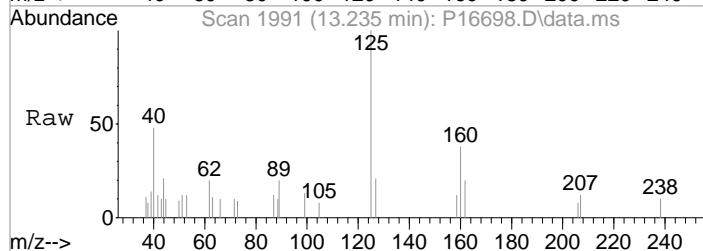
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 100 | | |
| 160 | 26.5 | 32.2 | 48.2# |
| 89 | 44.5 | 28.3 | 42.5# |





#114
 Coelution Dichlorotoluene
 Concen: 0.26 ppb
 RT: 13.235 min Scan# 1991
 Delta R.T. 0.006 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

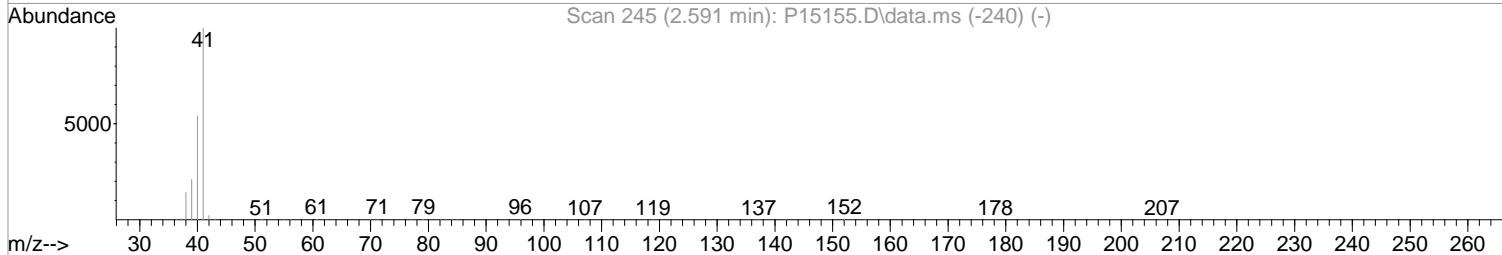
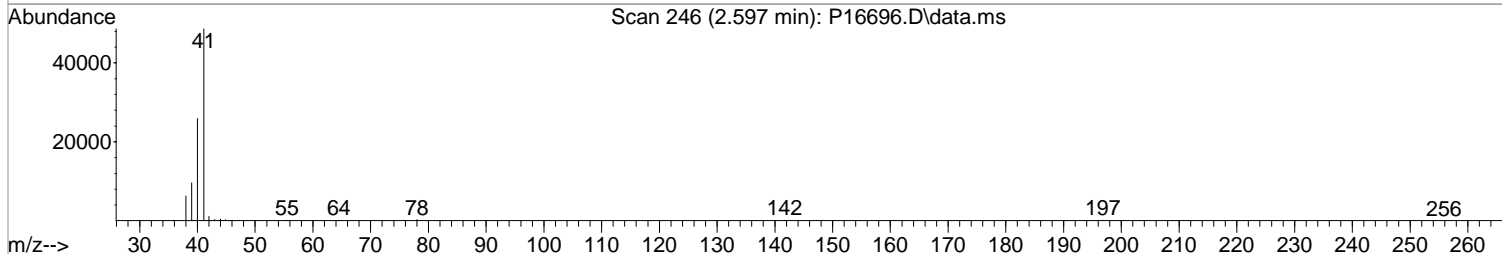
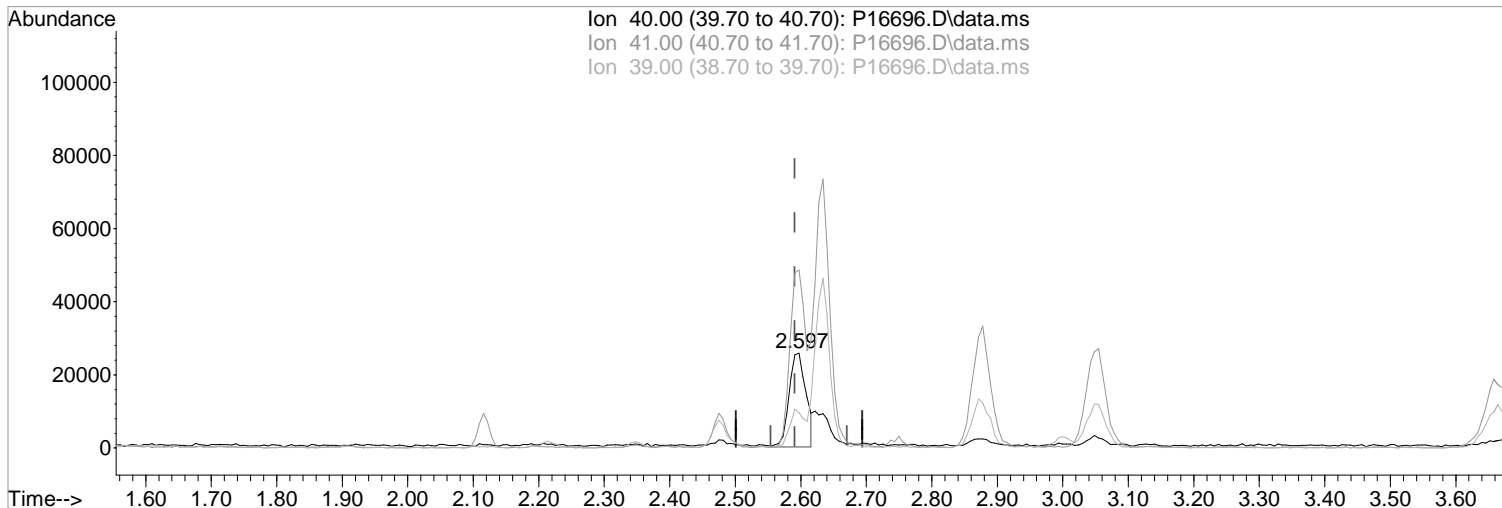
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 100 | | |
| 160 | 38.3 | 28.4 | 42.6 |
| 89 | 19.5 | 23.2 | 34.8# |



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16696.D
Acq On : 27 Mar 2018 11:30 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:54:53 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16696.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 145.74 ppb m
response 45873

Manual Integration:

After

Poor integration.

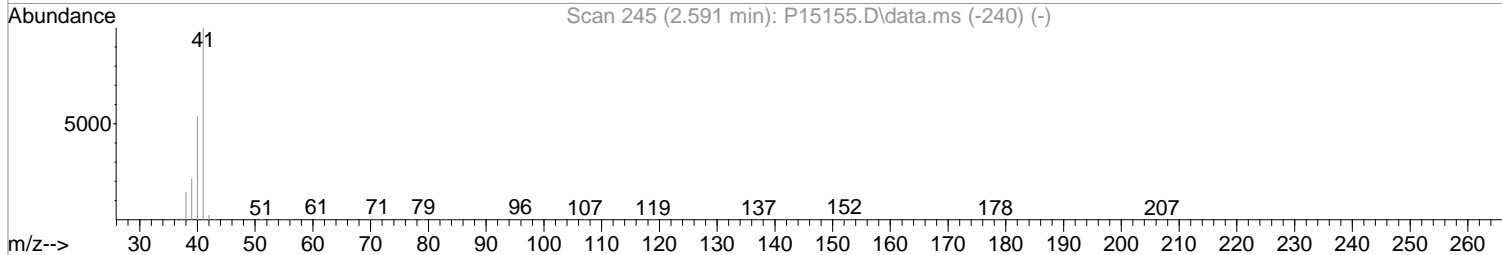
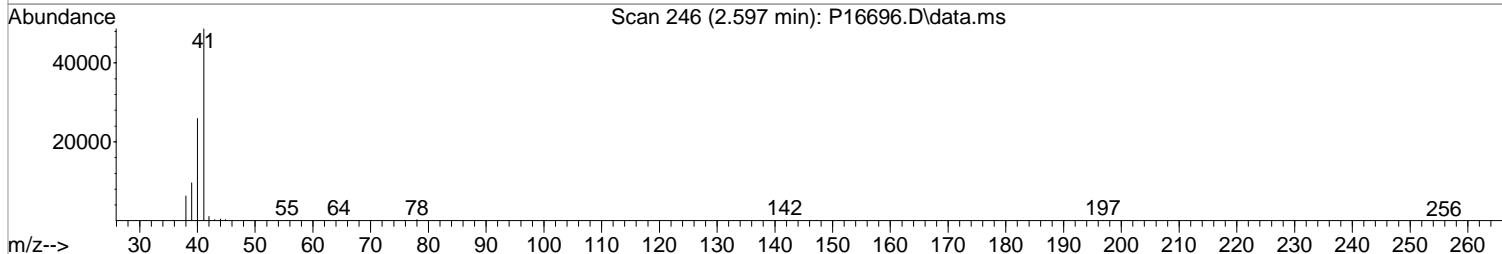
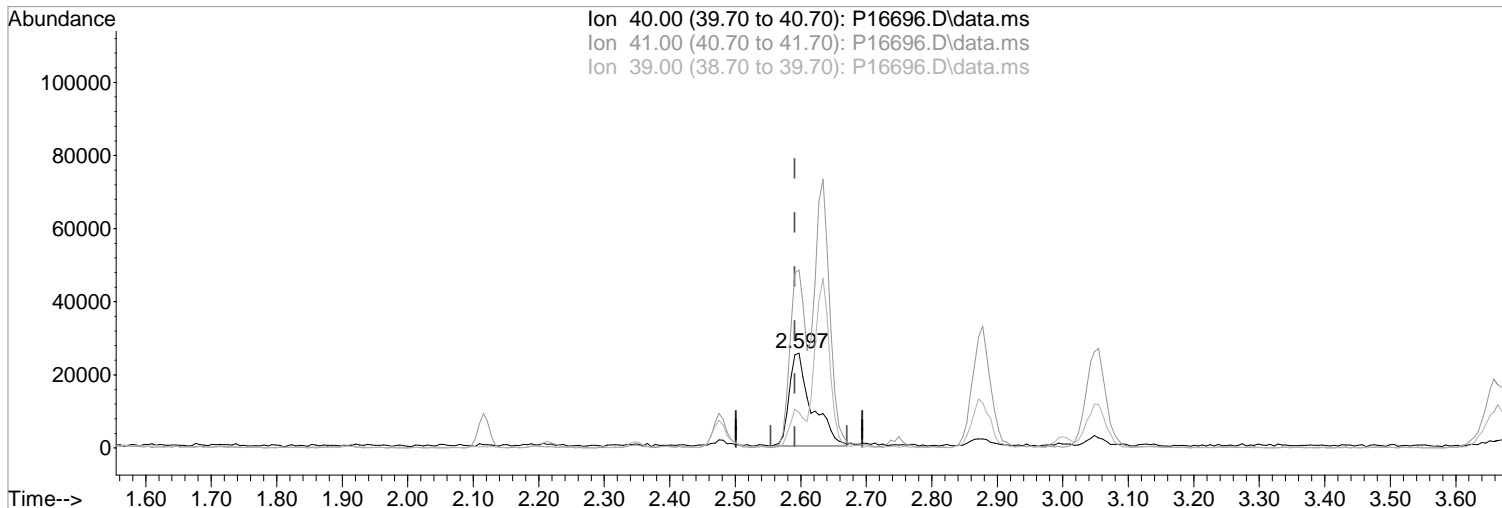
03/27/18

| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 187.54 |
| 39.00 | 40.10 | 37.20 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16696.D
Acq On : 27 Mar 2018 11:30 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:54:53 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16696.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 192.49 ppb
response 60588

Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 187.54 |
| 39.00 | 40.10 | 37.20 |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------|----------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 302355 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 517963 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 456652 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 225614 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 147394 | 47.93 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 | - 119 | Recovery | = | 95.86% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 203758 | 48.35 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 | - 125 | Recovery | = | 96.70% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 680879 | 49.58 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 | - 121 | Recovery | = | 99.16% | |
| 70) SURR2,BFB | 10.864 | 95 | 250737 | 47.19 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 | - 122 | Recovery | = | 94.38% | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 93570 | 25.44 | ppb | | 98 |
| 3) Chloromethane | 1.311 | 50 | 93421 | 20.32 | ppb | | 97 |
| 4) Vinyl Chloride | 1.384 | 62 | 96363 | 21.52 | ppb | | 100 |
| 5) Bromomethane | 1.610 | 94 | 40494 | 10.87 | ppb | | 96 |
| 6) Chloroethane | 1.689 | 64 | 56153 | 20.08 | ppb | | 93 |
| 7) Freon 21 | 1.835 | 67 | 122560 | 21.20 | ppb | | 98 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 87306 | 20.23 | ppb | | 99 |
| 9) Diethyl Ether | 2.116 | 59 | 78786 | 26.23 | ppb | | 93 |
| 10) Freon 123a | 2.116 | 67 | 82500 | 22.59 | ppb | | 89 |
| 11) Freon 123 | 2.170 | 83 | 118901 | 28.14 | ppb | | 97 |
| 12) Acrolein | 2.219 | 56 | 34358 | 38.44 | ppb | | 96 |
| 13) 1,1-Dicethene | 2.305 | 96 | 59830 | 19.26 | ppb | | 98 |
| 14) Freon 113 | 2.311 | 101 | 50554 | 17.23 | ppb | | 98 |
| 15) Acetone | 2.347 | 43 | 52193 | 28.31 | ppb | | 96 |
| 16) 2-Propanol | 2.475 | 45 | 172752 | 488.38 | ppb | | 97 |
| 17) Iodomethane | 2.433 | 142 | 71435 | 21.97 | ppb | | 96 |
| 18) Carbon Disulfide | 2.500 | 76 | 195126 | 21.54 | ppb | | 97 |
| 19) Acetonitrile | 2.597 | 40 | 45873m | 145.74 | ppb | | |
| 20) Allyl Chloride | 2.634 | 76 | 36536 | 22.09 | ppb | # | 90 |
| 21) Methyl Acetate | 2.658 | 43 | 86315 | 26.22 | ppb | | 99 |
| 22) Methylene Chloride | 2.750 | 84 | 77580 | 23.68 | ppb | | 94 |
| 23) TBA | 2.878 | 59 | 290482 | 476.41 | ppb | | 91 |
| 24) Acrylonitrile | 3.000 | 53 | 240626 | 135.97 | ppb | | 100 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 265325 | 23.83 | ppb | | 97 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 65556 | 20.66 | ppb | | 90 |
| 28) 1,1-Dicethane | 3.536 | 63 | 133024 | 22.85 | ppb | | 98 |
| 29) Vinyl Acetate | 3.627 | 86 | 20417 | 21.96 | ppb | | 99 |
| 30) DIPE | 3.664 | 45 | 277248 | 25.01 | ppb | | 94 |
| 31) 2-Chloro-1,3-Butadiene | 3.664 | 53 | 124595 | 22.13 | ppb | | 100 |
| 32) ETBE | 4.188 | 59 | 269012 | 24.06 | ppb | | 98 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 95167 | 18.38 | ppb | | 99 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 75813 | 20.99 | ppb | | 97 |
| 35) 2-Butanone | 4.408 | 43 | 58853 | 25.41 | ppb | | 97 |
| 36) Propionitrile | 4.493 | 54 | 97752 | 129.97 | ppb | | 99 |
| 37) Bromochloromethane | 4.761 | 130 | 45791 | 21.91 | ppb | | 90 |
| 38) Methacrylonitrile | 4.761 | 67 | 48712 | 27.30 | ppb | | 90 |
| 39) Tetrahydrofuran | 4.853 | 42 | 40156 | 29.71 | ppb | | 92 |
| 40) Chloroform | 4.944 | 83 | 118205 | 20.17 | ppb | | 98 |
| 41) 1,1,1-Trichloroethane | 5.237 | 97 | 85282 | 17.19 | ppb | | 94 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.090 | 73 | 259480 | 23.78 | ppb | 96 |
| 44) Cyclohexane | 5.334 | 41 | 70550 | 20.85 | ppb | 90 |
| 46) Carbontetrachloride | 5.523 | 117 | 59737 | 15.36 | ppb | 91 |
| 47) 1,1-Dichloropropene | 5.536 | 75 | 88834 | 19.47 | ppb | 97 |
| 49) Benzene | 5.847 | 78 | 285890 | 21.13 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 109177 | 21.97 | ppb | 96 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 126847 | 462.20 | ppb | 97 |
| 52) n-Heptane | 6.340 | 43 | 93059 | 20.04 | ppb | 94 |
| 53) 1-Butanol | 6.822 | 56 | 212197 | 1168.57 | ppb | 99 |
| 54) Trichloroethene | 6.798 | 130 | 65337 | 18.83 | ppb | 93 |
| 55) Methylcyclohexane | 7.041 | 55 | 101785 | 22.55 | ppb | 86 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 80438 | 22.29 | ppb | 98 |
| 57) Dibromomethane | 7.218 | 93 | 46022 | 21.36 | ppb | 96 |
| 58) 1,4-Dioxane | 7.279 | 88 | 36159 | 507.53 | ppb | 89 |
| 59) Methyl Methacrylate | 7.304 | 69 | 75719 | 22.71 | ppb | 96 |
| 60) Bromodichloromethane | 7.450 | 83 | 85102 | 18.73 | ppb | 98 |
| 61) 2-Nitropropane | 7.730 | 41 | 42958 | 30.62 | ppb | 99 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 48564 | 58.22 | ppb | 89 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 121609 | 21.21 | ppb | 97 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 104812 | 23.80 | ppb | 96 |
| 66) Toluene | 8.364 | 91 | 291927 | 19.86 | ppb | 97 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 108569 | 20.33 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.779 | 69 | 127736 | 23.43 | ppb | 99 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 72042 | 21.58 | ppb | 97 |
| 72) Tetrachloroethene | 8.956 | 164 | 43529 | 17.27 | ppb | 95 |
| 73) 2-Hexanone | 9.114 | 43 | 77525 | 23.06 | ppb | 92 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 137501 | 23.43 | ppb | 100 |
| 75) Dibromochloromethane | 9.218 | 129 | 58891 | 19.23 | ppb | 99 |
| 76) N-Butyl Acetate | 9.273 | 43 | 158618 | 25.07 | ppb | 94 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 71145 | 21.87 | ppb | 92 |
| 78) Chlorobenzene | 9.809 | 112 | 183970 | 20.56 | ppb | 96 |
| 79) 3-CBTF | 9.828 | 180 | 100492 | 21.07 | ppb | 94 |
| 80) 4-CBTF | 9.882 | 180 | 90890 | 20.85 | ppb | 98 |
| 81) 1,1,1,2-Tetrachloroethane | 9.901 | 131 | 60134 | 18.91 | ppb | 97 |
| 82) Ethylbenzene | 9.931 | 106 | 95321 | 19.30 | ppb | 98 |
| 83) (m+p)Xylene | 10.047 | 106 | 233361 | 39.03 | ppb | 99 |
| 84) o-Xylene | 10.401 | 106 | 117466 | 19.62 | ppb | 97 |
| 85) Styrene | 10.419 | 104 | 202943 | 20.14 | ppb | 98 |
| 87) Bromoform | 10.565 | 173 | 38206 | 19.41 | ppb | 97 |
| 88) 2-CBTF | 10.651 | 180 | 94593 | 21.65 | ppb | 89 |
| 89) Isopropylbenzene | 10.736 | 105 | 279655 | 18.87 | ppb | 99 |
| 90) Cyclohexanone | 10.797 | 55 | 406229 | 360.25 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 28385 | 24.16 | ppb | 83 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 109435 | 24.46 | ppb | 99 |
| 93) Bromobenzene | 10.986 | 156 | 77089 | 21.23 | ppb | # 87 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 34313 | 23.61 | ppb | 94 |
| 95) n-Propylbenzene | 11.096 | 91 | 337491 | 19.58 | ppb | 98 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 216766 | 20.28 | ppb | 97 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 249989 | 22.18 | ppb | 94 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 244667 | 19.82 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 234435 | 18.91 | ppb | 99 |
| 100) tert-Butylbenzene | 11.522 | 119 | 195781 | 18.29 | ppb | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 249111 | 20.06 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 81298 | 23.43 | ppb | 98 |
| 103) sec-Butylbenzene | 11.705 | 105 | 290893 | 18.47 | ppb | 98 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 245832 | 18.55 | ppb | 97 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

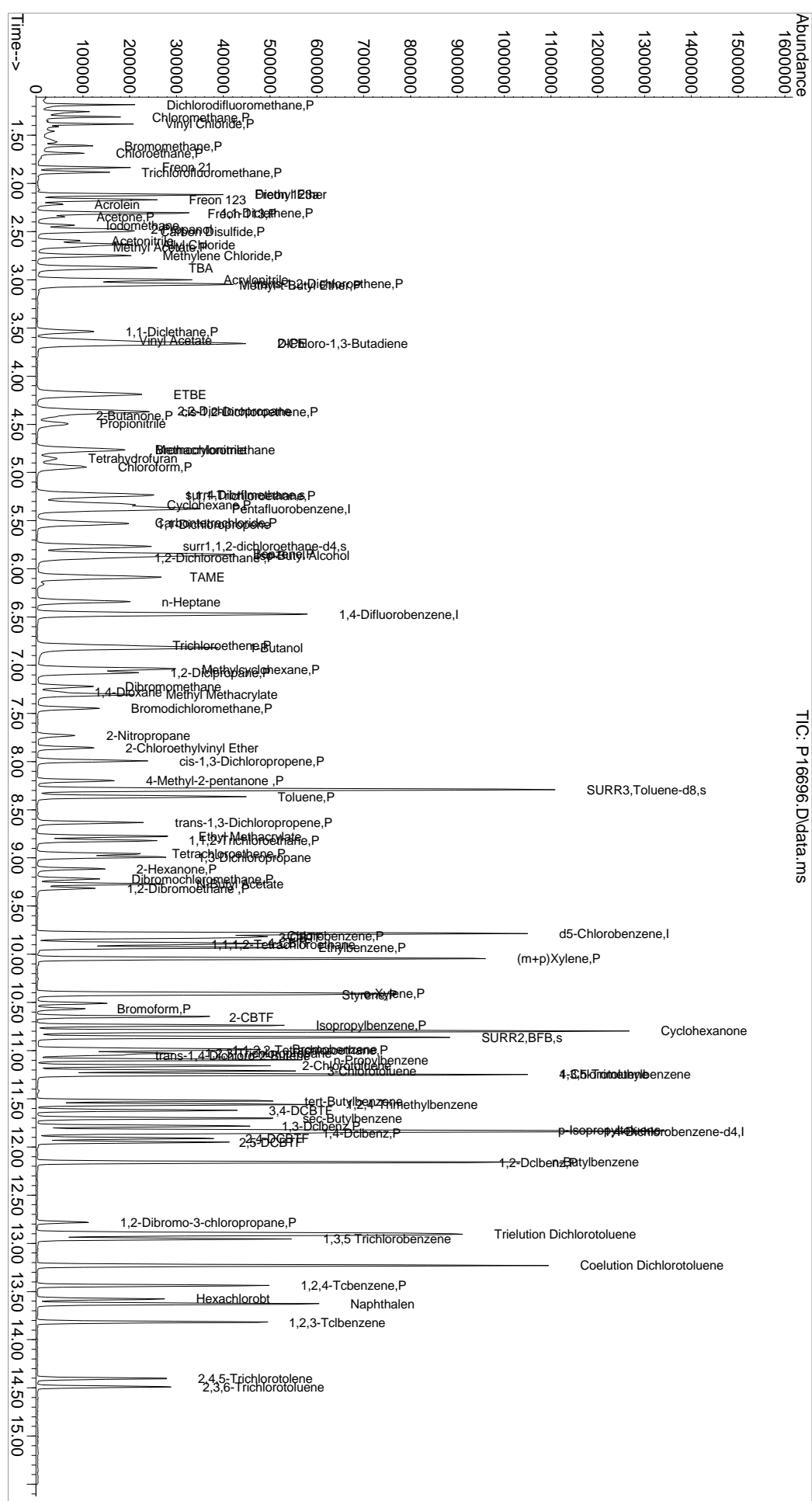
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 144467 | 20.93 | ppb | 97 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 145267 | 20.06 | ppb | 99 |
| 107) 2,4-DCBTF | 11.912 | 214 | 73333 | 22.16 | ppb | 95 |
| 108) 2,5-DCBTF | 11.955 | 214 | 83967 | 23.73 | ppb | 92 |
| 109) n-Butylbenzene | 12.156 | 91 | 242955 | 19.65 | ppb | 99 |
| 110) 1,2-Dclbenz | 12.162 | 146 | 146675 | 21.30 | ppb | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 21962 | 18.97 | ppb | 91 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 458332 | 67.65 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 124523 | 23.22 | ppb | 97 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 338033 | 47.05 | ppb | 99 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 116296 | 23.23 | ppb | 95 |
| 116) Hexachlorobt | 13.577 | 225 | 39623 | 17.05 | ppb | 98 |
| 117) Naphthalen | 13.626 | 128 | 357379 | 25.87 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.821 | 180 | 117709 | 24.20 | ppb | 97 |
| 119) 2,4,5-Trichlorotolene | 14.406 | 159 | 56947 | 19.17 | ppb | 95 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 52609 | 18.81 | ppb | 94 |

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

1st 03/27/18

Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Sample Vial : 1 Sample Multiplier: 1
 Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

Inst : MSVOA-12



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16719.D
 Acq On : 27 Mar 2018 8:11 pm
 Operator : K.Ruest 2551
 Sample : R1802550-002MS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 28 13:51:29 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|----------|---------|---------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 284362 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 472299 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 422527 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 215946 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 137775 | 49.13 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 98.26% | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 194576 | 50.63 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 101.26% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 640378 | 51.14 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 102.28% | | |
| 70) SURR2,BFB | 10.864 | 95 | 234414 | 48.39 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 96.78% | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 271871 | 78.59 | ppb | | 98 |
| 3) Chloromethane | 1.311 | 50 | 257152 | 59.48 | ppb | | 99 |
| 4) Vinyl Chloride | 1.384 | 62 | 267849 | 63.60 | ppb | | 80 |
| 5) Bromomethane | 1.603 | 94 | 92611 | 28.09 | ppb | | 99 |
| 6) Chloroethane | 1.683 | 64 | 149857 | 56.99 | ppb | | 98 |
| 7) Freon 21 | 1.835 | 67 | 326155 | 59.99 | ppb | | 98 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 256319 | 63.16 | ppb | | 99 |
| 9) Diethyl Ether | 2.116 | 59 | 184644 | 65.37 | ppb | | 95 |
| 10) Freon 123a | 2.116 | 67 | 223997 | 65.22 | ppb | | 91 |
| 11) Freon 123 | 2.170 | 83 | 324499 | 81.66 | ppb | | 98 |
| 12) Acrolein | 2.213 | 56 | 65411 | 77.81 | ppb | | 94 |
| 13) 1,1-Dicethene | 2.305 | 96 | 168742 | 57.77 | ppb | | 94 |
| 14) Freon 113 | 2.311 | 101 | 157332 | 57.00 | ppb | | 98 |
| 15) Acetone | 2.347 | 43 | 93733 | 54.06 | ppb | | 94 |
| 16) 2-Propanol | 2.475 | 45 | 462748 | 1390.98 | ppb | | 99 |
| 17) Iodomethane | 2.433 | 142 | 198468 | 55.33 | ppb | | 95 |
| 18) Carbon Disulfide | 2.494 | 76 | 490553 | 57.58 | ppb | | 98 |
| 19) Acetonitrile | 2.591 | 40 | 119590 | 403.97 | ppb | | 99 |
| 20) Allyl Chloride | 2.634 | 76 | 99415 | 63.90 | ppb | # | 88 |
| 21) Methyl Acetate | 2.658 | 43 | 207082 | 66.88 | ppb | | 99 |
| 22) Methylene Chloride | 2.750 | 84 | 186333 | 60.48 | ppb | | 89 |
| 23) TBA | 2.878 | 59 | 773879 | 1349.53 | ppb | | 93 |
| 24) Acrylonitrile | 3.000 | 53 | 597665 | 359.08 | ppb | | 96 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 609995 | 58.26 | ppb | | 99 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 178445 | 59.81 | ppb | | 90 |
| 28) 1,1-Dicethane | 3.536 | 63 | 364250 | 66.53 | ppb | | 97 |
| 29) Vinyl Acetate | 3.627 | 86 | 50482 | 57.74 | ppb | # | 92 |
| 30) DIPE | 3.664 | 45 | 690811 | 66.26 | ppb | | 95 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 312799 | 59.07 | ppb | | 92 |
| 32) ETBE | 4.188 | 59 | 640800 | 60.95 | ppb | | 97 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 248067 | 50.95 | ppb | | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 206660 | 60.84 | ppb | | 100 |
| 35) 2-Butanone | 4.414 | 43 | 148313 | 68.08 | ppb | | 98 |
| 36) Propionitrile | 4.493 | 54 | 246671 | 348.72 | ppb | | 96 |
| 37) Bromochloromethane | 4.761 | 130 | 108753 | 55.33 | ppb | # | 83 |
| 38) Methacrylonitrile | 4.761 | 67 | 116265 | 69.29 | ppb | | 94 |
| 39) Tetrahydrofuran | 4.859 | 42 | 98379 | 77.41 | ppb | | 97 |
| 40) Chloroform | 4.944 | 83 | 304974 | 55.33 | ppb | | 99 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 250682 | 53.74 | ppb | | 98 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16719.D
 Acq On : 27 Mar 2018 8:11 pm
 Operator : K.Ruest
 Sample : R1802550-002MS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 28 13:51:29 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 609378 | 59.37 | ppb | 98 |
| 44) Cyclohexane | 5.328 | 41 | 188727 | 61.16 | ppb | 88 |
| 46) Carbontetrachloride | 5.523 | 117 | 186009 | 52.47 | ppb | 98 |
| 47) 1,1-Dichloropropene | 5.530 | 75 | 258655 | 62.17 | ppb | 99 |
| 49) Benzene | 5.847 | 78 | 780756 | 63.29 | ppb | 98 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 260247 | 57.42 | ppb | 98 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 349612 | 1397.08 | ppb | 98 |
| 52) n-Heptane | 6.340 | 43 | 271871 | 64.20 | ppb | 94 |
| 53) 1-Butanol | 6.822 | 56 | 577139 | 3485.61 | ppb | 96 |
| 54) Trichloroethene | 6.798 | 130 | 192616 | 60.88 | ppb | 95 |
| 55) Methylcyclohexane | 7.041 | 55 | 265571 | 64.53 | ppb | 93 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 210685 | 64.01 | ppb | 98 |
| 57) Dibromomethane | 7.218 | 93 | 113096 | 57.56 | ppb | 98 |
| 58) 1,4-Dioxane | 7.279 | 88 | 86725 | 1334.96 | ppb | 97 |
| 59) Methyl Methacrylate | 7.310 | 69 | 185870 | 61.15 | ppb | 98 |
| 60) Bromodichloromethane | 7.450 | 83 | 212352 | 51.26 | ppb | 96 |
| 61) 2-Nitropropane | 7.730 | 41 | 120822 | 94.44 | ppb | 100 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 303710 | 58.10 | ppb | 96 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 279525 | 69.62 | ppb | 99 |
| 66) Toluene | 8.364 | 91 | 808766 | 60.35 | ppb | 99 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 264697 | 54.36 | ppb | 98 |
| 68) Ethyl Methacrylate | 8.779 | 69 | 318252 | 64.02 | ppb | 99 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 170079 | 55.87 | ppb | 95 |
| 72) Tetrachloroethene | 8.962 | 164 | 133281 | 57.16 | ppb | 97 |
| 73) 2-Hexanone | 9.114 | 43 | 206429 | 66.36 | ppb | 98 |
| 74) 1,3-Dichloropropene | 8.992 | 76 | 325653 | 59.98 | ppb | 99 |
| 75) Dibromochloromethane | 9.218 | 129 | 147175 | 51.94 | ppb | 95 |
| 76) N-Butyl Acetate | 9.273 | 43 | 411105 | 70.21 | ppb | 97 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 172194 | 57.20 | ppb | 99 |
| 78) Chlorobenzene | 9.809 | 112 | 477556 | 57.69 | ppb | 96 |
| 79) 3-CBTF | 9.834 | 180 | 257605 | 58.36 | ppb | 93 |
| 80) 4-CBTF | 9.888 | 180 | 231885 | 57.49 | ppb | 94 |
| 81) 1,1,1,2-Tetrachloroethane | 9.901 | 131 | 155464 | 52.83 | ppb | 98 |
| 82) Ethylbenzene | 9.931 | 106 | 268995 | 58.86 | ppb | 95 |
| 83) (m+p)Xylene | 10.047 | 106 | 651618 | 117.80 | ppb | 95 |
| 84) o-Xylene | 10.401 | 106 | 326599 | 58.97 | ppb | 100 |
| 85) Styrene | 10.419 | 104 | 535492 | 57.43 | ppb | 98 |
| 87) Bromoform | 10.565 | 173 | 92806 | 49.27 | ppb | 100 |
| 88) 2-CBTF | 10.650 | 180 | 253301 | 60.56 | ppb | 89 |
| 89) Isopropylbenzene | 10.736 | 105 | 827477 | 58.32 | ppb | 100 |
| 90) Cyclohexanone | 10.797 | 55 | 271807 | 251.83 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 70933 | 63.09 | ppb | 88 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 278290 | 64.99 | ppb | 99 |
| 93) Bromobenzene | 10.986 | 156 | 195527 | 56.27 | ppb | 94 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 83536 | 60.06 | ppb | 92 |
| 95) n-Propylbenzene | 11.095 | 91 | 998390 | 60.52 | ppb | 100 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 589936 | 57.68 | ppb | 97 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 629589 | 58.36 | ppb | 98 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 658611 | 55.73 | ppb | 98 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 687269 | 57.92 | ppb | 99 |
| 100) tert-Butylbenzene | 11.522 | 119 | 592895 | 57.88 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 695598 | 58.53 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 205273 | 61.81 | ppb | 99 |
| 103) sec-Butylbenzene | 11.705 | 105 | 890685 | 59.09 | ppb | 97 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 741742 | 58.47 | ppb | 98 |
| 105) 1,3-Dclbenz | 11.784 | 146 | 364871 | 55.24 | ppb | 97 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16719.D
 Acq On : 27 Mar 2018 8:11 pm
 Operator : K.Ruest
 Sample : R1802550-002MS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 21 Sample Multiplier: 1

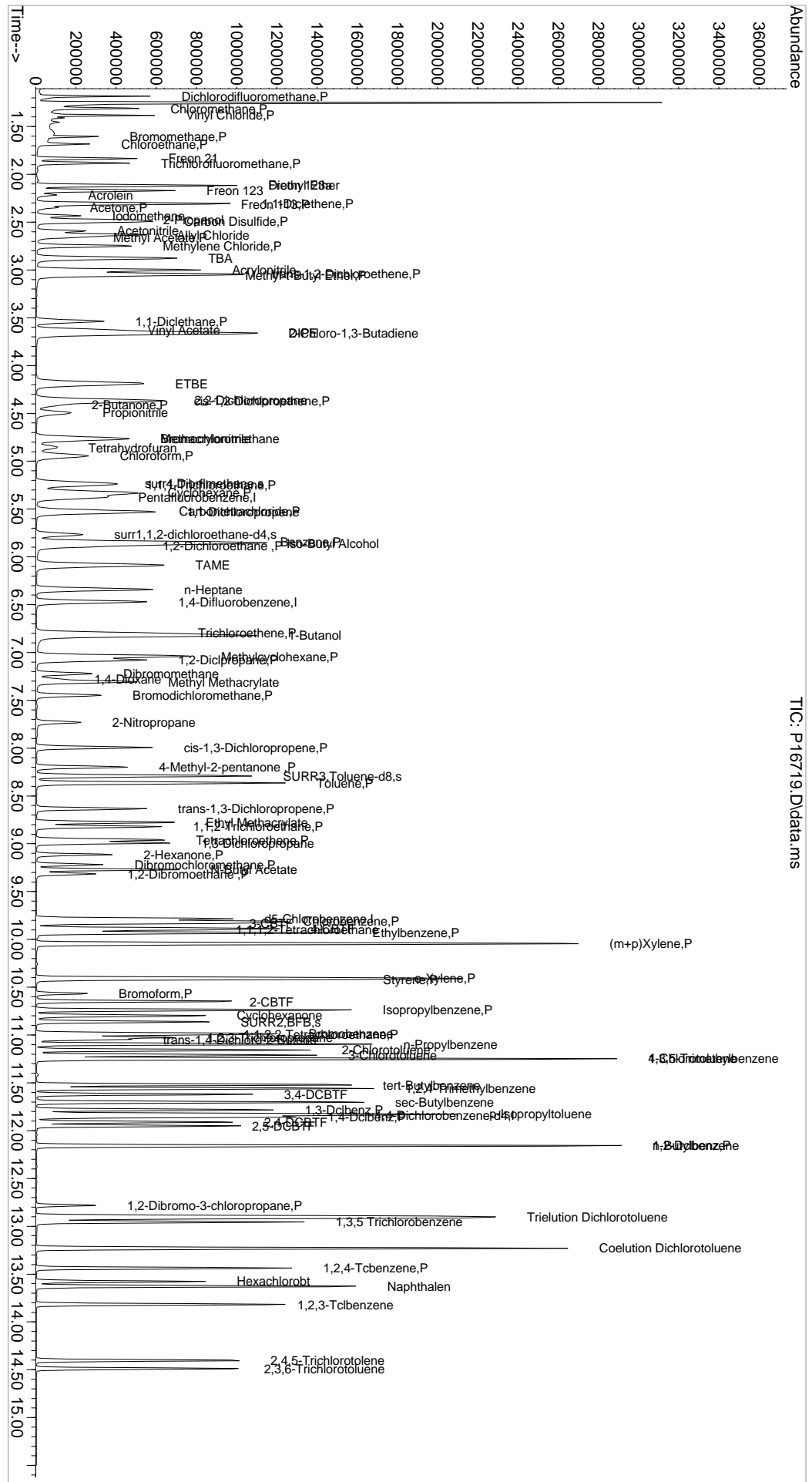
Quant Time: Mar 28 13:51:29 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 106) 1,4-Dclbenz | 11.858 | 146 | 368042 | 53.10 | ppb | 99 |
| 107) 2,4-DCBTF | 11.912 | 214 | 186864 | 59.00 | ppb | 97 |
| 108) 2,5-DCBTF | 11.955 | 214 | 211654 | 62.49 | ppb | 93 |
| 109) n-Butylbenzene | 12.156 | 91 | 720861 | 60.92 | ppb | 99 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 363414 | 55.13 | ppb | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 60328 | 54.43 | ppb | 93 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 1153527 | 177.89 | ppb | 100 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 305513 | 59.53 | ppb | 99 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 845795 | 122.98 | ppb | 99 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 293912 | 61.34 | ppb | 97 |
| 116) Hexachlorobt | 13.577 | 225 | 121394 | 54.57 | ppb | 96 |
| 117) Naphthalen | 13.626 | 128 | 927673 | 70.16 | ppb | 98 |
| 118) 1,2,3-Tclbenzene | 13.821 | 180 | 297846 | 63.99 | ppb | 99 |
| 119) 2,4,5-Trichlorotolene | 14.406 | 159 | 209851 | 67.11 | ppb | 97 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 184720 | 63.87 | ppb | 96 |

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

Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16719.D
 Acq On : 27 Mar 2018 8:11 pm
 Operator : K.Ruest
 Sample : R1802550-002MS|1.0
 Vial : 21 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Mar 28 13:51:29 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16720.D
 Acq On : 27 Mar 2018 8:33 pm
 Operator : K.Ruest 2551
 Sample : R1802550-002DMS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 13:53:07 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|----------|---------|---------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 280872 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 471508 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 415628 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 210824 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 140040 | 50.02 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 100.04% | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 191471 | 49.91 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 99.82% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 627507 | 50.20 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 100.40% | | |
| 70) SURR2,BFB | 10.864 | 95 | 233847 | 48.35 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 96.70% | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 268796 | 78.67 | ppb | | 97 |
| 3) Chloromethane | 1.311 | 50 | 257105 | 60.21 | ppb | | 99 |
| 4) Vinyl Chloride | 1.384 | 62 | 273610 | 65.77 | ppb | | 85 |
| 5) Bromomethane | 1.603 | 94 | 99053 | 30.69 | ppb | | 94 |
| 6) Chloroethane | 1.683 | 64 | 154799 | 59.60 | ppb | | 95 |
| 7) Freon 21 | 1.835 | 67 | 328110 | 61.10 | ppb | | 99 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 252244 | 62.93 | ppb | | 99 |
| 9) Diethyl Ether | 2.115 | 59 | 194687 | 69.78 | ppb | | 96 |
| 10) Freon 123a | 2.115 | 67 | 226521 | 66.78 | ppb | | 87 |
| 11) Freon 123 | 2.170 | 83 | 326407 | 83.16 | ppb | | 98 |
| 12) Acrolein | 2.213 | 56 | 67538 | 81.34 | ppb | | 98 |
| 13) 1,1-Diclcethene | 2.304 | 96 | 166877 | 57.84 | ppb | | 92 |
| 14) Freon 113 | 2.311 | 101 | 158305 | 58.07 | ppb | | 97 |
| 15) Acetone | 2.347 | 43 | 98728 | 57.65 | ppb | | 93 |
| 16) 2-Propanol | 2.475 | 45 | 483354 | 1470.98 | ppb | | 99 |
| 17) Iodomethane | 2.432 | 142 | 203445 | 57.23 | ppb | | 98 |
| 18) Carbon Disulfide | 2.493 | 76 | 488596 | 58.07 | ppb | | 99 |
| 19) Acetonitrile | 2.591 | 40 | 120744 | 412.94 | ppb | | 99 |
| 20) Allyl Chloride | 2.634 | 76 | 104656 | 68.11 | ppb | # | 89 |
| 21) Methyl Acetate | 2.658 | 43 | 209915 | 68.63 | ppb | | 97 |
| 22) Methylene Chloride | 2.749 | 84 | 185574 | 60.98 | ppb | | 88 |
| 23) TBA | 2.878 | 59 | 803394 | 1418.40 | ppb | | 95 |
| 24) Acrylonitrile | 2.999 | 53 | 596706 | 362.96 | ppb | | 98 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 616096 | 59.57 | ppb | | 97 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 183246 | 62.18 | ppb | | 92 |
| 28) 1,1-Diclcethane | 3.536 | 63 | 364915 | 67.48 | ppb | | 97 |
| 29) Vinyl Acetate | 3.633 | 86 | 50628 | 58.63 | ppb | # | 85 |
| 30) DIPE | 3.664 | 45 | 705447 | 68.50 | ppb | | 95 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 304736 | 58.27 | ppb | | 92 |
| 32) ETBE | 4.188 | 59 | 650310 | 62.62 | ppb | | 97 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 248840 | 51.75 | ppb | | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 209054 | 62.31 | ppb | | 92 |
| 35) 2-Butanone | 4.414 | 43 | 145523 | 67.63 | ppb | | 98 |
| 36) Propionitrile | 4.493 | 54 | 248990 | 356.38 | ppb | | 98 |
| 37) Bromochloromethane | 4.761 | 130 | 113152 | 58.29 | ppb | | 92 |
| 38) Methacrylonitrile | 4.767 | 67 | 116737 | 70.43 | ppb | | 97 |
| 39) Tetrahydrofuran | 4.859 | 42 | 99830 | 79.52 | ppb | | 90 |
| 40) Chloroform | 4.944 | 83 | 305638 | 56.14 | ppb | | 98 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 250321 | 54.33 | ppb | | 100 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16720.D
 Acq On : 27 Mar 2018 8:33 pm
 Operator : K.Ruest
 Sample : R1802550-002DMS|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 28 13:53:07 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 617277 | 60.89 | ppb | 97 |
| 44) Cyclohexane | 5.334 | 41 | 186955 | 60.69 | ppb | 86 |
| 46) Carbontetrachloride | 5.523 | 117 | 188779 | 53.34 | ppb | 94 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 258522 | 62.24 | ppb | 99 |
| 49) Benzene | 5.846 | 78 | 783728 | 63.63 | ppb | 97 |
| 50) 1,2-Dichloroethane | 5.889 | 62 | 263881 | 58.32 | ppb | 98 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 363157 | 1453.64 | ppb | 98 |
| 52) n-Heptane | 6.340 | 43 | 271672 | 64.26 | ppb | 95 |
| 53) 1-Butanol | 6.822 | 56 | 603864 | 3653.13 | ppb | 98 |
| 54) Trichloroethene | 6.797 | 130 | 193757 | 61.34 | ppb | 94 |
| 55) Methylcyclohexane | 7.041 | 55 | 263688 | 64.18 | ppb | 89 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 211336 | 64.32 | ppb | 98 |
| 57) Dibromomethane | 7.218 | 93 | 113051 | 57.63 | ppb | 96 |
| 58) 1,4-Dioxane | 7.279 | 88 | 85395 | 1316.69 | ppb | 90 |
| 59) Methyl Methacrylate | 7.310 | 69 | 186204 | 61.36 | ppb | 98 |
| 60) Bromodichloromethane | 7.450 | 83 | 219130 | 52.98 | ppb | 95 |
| 61) 2-Nitropropane | 7.730 | 41 | 125868 | 98.55 | ppb | 92 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 309256 | 59.26 | ppb | 96 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 278790 | 69.55 | ppb | 97 |
| 66) Toluene | 8.364 | 91 | 807961 | 60.39 | ppb | 98 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 274092 | 56.38 | ppb | 97 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 322907 | 65.06 | ppb | 95 |
| 69) 1,1,2-Trichloroethane | 8.821 | 97 | 172117 | 56.63 | ppb | 97 |
| 72) Tetrachloroethene | 8.962 | 164 | 134246 | 58.53 | ppb | 99 |
| 73) 2-Hexanone | 9.114 | 43 | 204154 | 66.72 | ppb | 95 |
| 74) 1,3-Dichloropropene | 8.992 | 76 | 337045 | 63.11 | ppb | 98 |
| 75) Dibromochloromethane | 9.218 | 129 | 149223 | 53.53 | ppb | 99 |
| 76) N-Butyl Acetate | 9.267 | 43 | 415149 | 72.08 | ppb | 98 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 170830 | 57.69 | ppb | 97 |
| 78) Chlorobenzene | 9.809 | 112 | 477189 | 58.60 | ppb | 95 |
| 79) 3-CBTF | 9.827 | 180 | 251421 | 57.91 | ppb | 98 |
| 80) 4-CBTF | 9.888 | 180 | 227182 | 57.26 | ppb | 93 |
| 81) 1,1,1,2-Tetrachloroethane | 9.901 | 131 | 161204 | 55.69 | ppb | 99 |
| 82) Ethylbenzene | 9.931 | 106 | 265919 | 59.15 | ppb | 99 |
| 83) (m+p)Xylene | 10.047 | 106 | 655498 | 120.46 | ppb | 94 |
| 84) o-Xylene | 10.400 | 106 | 321712 | 59.05 | ppb | 100 |
| 85) Styrene | 10.419 | 104 | 535715 | 58.41 | ppb | 97 |
| 87) Bromoform | 10.565 | 173 | 93523 | 50.86 | ppb | 98 |
| 88) 2-CBTF | 10.650 | 180 | 246961 | 60.48 | ppb | 92 |
| 89) Isopropylbenzene | 10.736 | 105 | 821083 | 59.28 | ppb | 100 |
| 90) Cyclohexanone | 10.797 | 55 | 281020 | 266.69 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 73266 | 66.74 | ppb | 91 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 278503 | 66.62 | ppb | 96 |
| 93) Bromobenzene | 10.986 | 156 | 195959 | 57.76 | ppb | 92 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 83402 | 61.42 | ppb | 95 |
| 95) n-Propylbenzene | 11.095 | 91 | 987104 | 61.29 | ppb | 99 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 592375 | 59.32 | ppb | 98 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 625298 | 59.37 | ppb | 98 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 660619 | 57.26 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 689472 | 59.51 | ppb | 98 |
| 100) tert-Butylbenzene | 11.522 | 119 | 593815 | 59.38 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 697043 | 60.08 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 204299 | 63.01 | ppb | 97 |
| 103) sec-Butylbenzene | 11.705 | 105 | 888255 | 60.36 | ppb | 99 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 733302 | 59.21 | ppb | 98 |
| 105) 1,3-Dclbenz | 11.784 | 146 | 371089 | 57.55 | ppb | 98 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16720.D
 Acq On : 27 Mar 2018 8:33 pm
 Operator : K.Ruest
 Sample : R1802550-002DMS|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 22 Sample Multiplier: 1

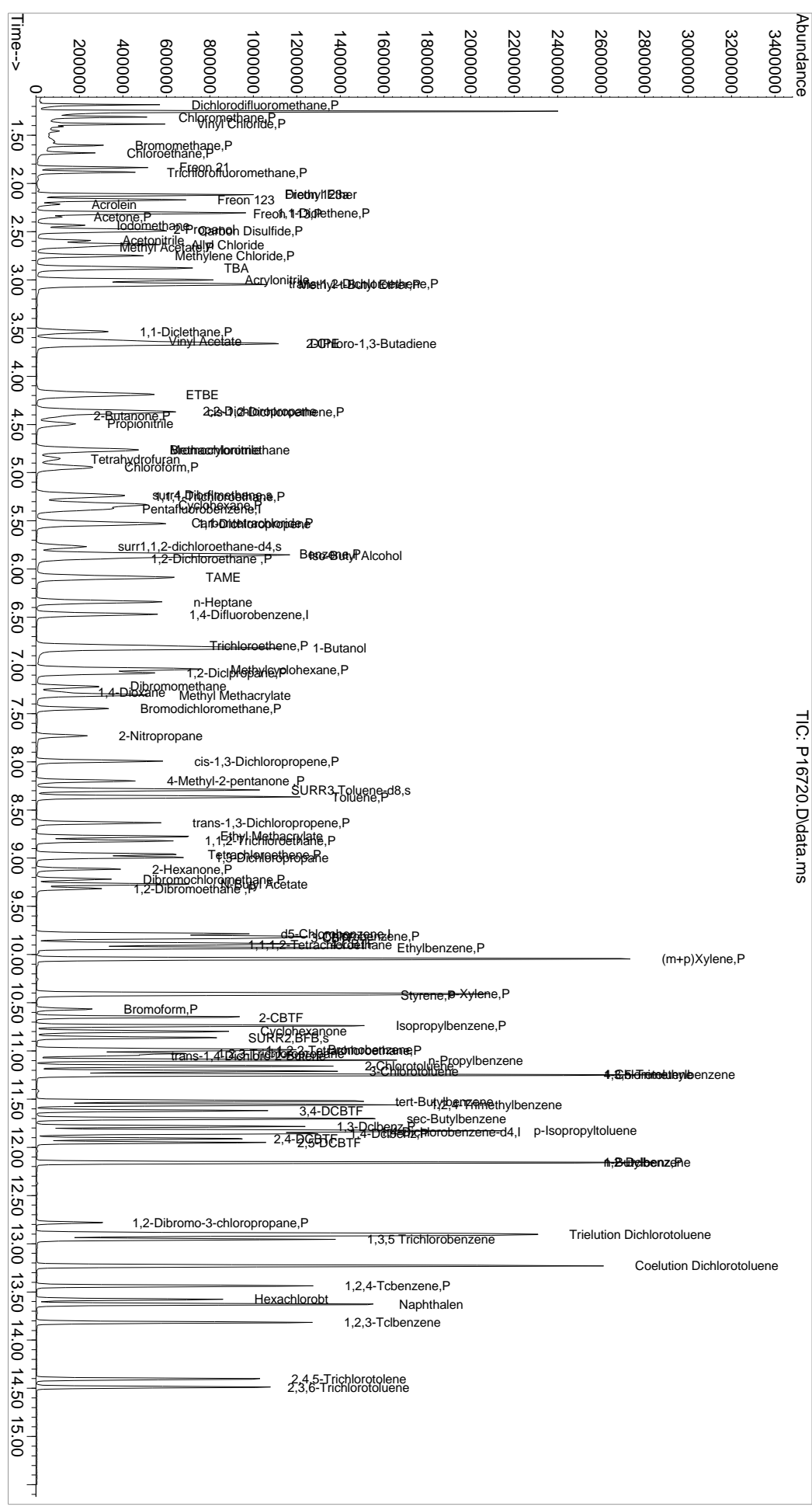
Quant Time: Mar 28 13:53:07 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 106) 1,4-Dclbenz | 11.857 | 146 | 368427 | 54.44 | ppb | 98 |
| 107) 2,4-DCBTF | 11.912 | 214 | 187350 | 60.59 | ppb | 96 |
| 108) 2,5-DCBTF | 11.949 | 214 | 209820 | 63.46 | ppb | 95 |
| 109) n-Butylbenzene | 12.156 | 91 | 732099 | 63.38 | ppb | 99 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 360746 | 56.05 | ppb | 98 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 59988 | 55.44 | ppb | 93 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 1146623 | 181.12 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 308892 | 61.65 | ppb | 99 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 851613 | 126.84 | ppb | 98 |
| 115) 1,2,4-Tcbenzene | 13.436 | 180 | 297957 | 63.69 | ppb | 97 |
| 116) Hexachlorobt | 13.577 | 225 | 124030 | 57.11 | ppb | 98 |
| 117) Naphthalen | 13.632 | 128 | 938382 | 72.70 | ppb | 98 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 305790 | 67.29 | ppb | 98 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 216562 | 70.55 | ppb | 95 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 194624 | 68.51 | ppb | 95 |

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

Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16720.D
 Acq On : 27 Mar 2018 8:33 pm
 Operator : K.Ruest
 Sample : R1802550-002DMS|1.0
 Inst : MSVOA-12
 PALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 13:53:07 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QIast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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 | Pentafluorobenzene | 1.0000 | 1.0000 | 0.0 | 111 | 0.00 | |
| 2 P | Dichlorodifluoromethane | 0.6083 | 0.6226 | -2.4 | 106 | 0.00 | |
| 3 P | Chloromethane | 0.7602 | 0.7017 | 7.7 | 106 | 0.00 | |
| 4 P | Vinyl Chloride | 0.7405 | 0.7573 | -2.3 | 112 | 0.00 | |
| 5 P | Bromomethane | 0.5812 | 0.2966 | 49.3 | 49.0 # | 70 | 0.00 |
| 6 P | Chloroethane | 0.4623 | 0.4754 | -2.8 | 114 | 0.00 | |
| 7 | Freon 21 | 0.9560 | 1.1266 | -17.8 | 129 | 0.00 | |
| 8 P | Trichlorofluoromethane | 0.7136 | 0.6744 | 5.5 | 105 | 0.00 | |
| 9 | Diethyl Ether | 0.4967 | 0.5865 | -18.1 | 138 | 0.00 | |
| 10 | Freon 123a | 0.6039 | 0.7041 | -16.6 | 131 | 0.00 | |
| 11 | Freon 123 | 0.6987 | 0.7902 | -13.1 | 126 | 0.00 | |
| 12 | Acrolein | 0.1478 | 0.1118 | NT | 24.4# | 86 | 0.00 |
| 13 P | 1,1-Dicethene | 0.5136 | 0.4806 | 6.4 | 113 | 0.00 | |
| 14 P | Freon 113 | 0.4853 | 0.4490 | 7.5 | 106 | 0.00 | |
| 15 P | Acetone | 0.3049 | 0.3539 | -16.1 | 128 | 0.00 | |
| 16 | 2-Propanol | 0.0585 | 0.0700 | -19.7 | 143 | 0.00 | |
| 17 | Iodomethane | 0.5271 | 0.6078 | 2.4 | 15.3 | 105 | 0.00 |
| 18 P | Carbon Disulfide | 1.4979 | 1.4889 | 0.6 | 109 | 0.00 | |
| 19 | Acetonitrile | 0.0521 | 0.0706 | NT | -35.5# | 162 | 0.00 |
| 20 | Allyl Chloride | 0.2735 | 0.3010 | -10.1 | 128 | 0.00 | |
| 21 P | Methyl Acetate | 0.5445 | 0.7300 | NT | -34.1# | 156 | 0.00 |
| 22 P | Methylene Chloride | 0.5417 | 0.5900 | -8.9 | 124 | 0.00 | |
| 23 | TBA | 0.1008 | 0.1091 | -8.2 | 128 | 0.00 | |
| 24 | Acrylonitrile | 0.2927 | 0.3544 | NT | -21.1# | 141 | 0.00 |
| 25 P | Methyl-t-Butyl Ether | 1.8411 | 1.9998 | -8.6 | 123 | 0.00 | |
| 26 P | trans-1,2-Dichloroethene | 0.5246 | 0.5226 | 0.4 | 113 | 0.00 | |
| 27 | Halothane | 0.0000 | 0.0000 | 0.0 | 0# | -4.00# | |
| 28 P | 1,1-Dicethane | 0.9627 | 1.0471 | -8.8 | 122 | 0.00 | |
| 29 | Vinyl Acetate | 0.1537 | 0.1397 | 9.1 | 104 | 0.00 | |
| 30 | DIPE | 1.8333 | 2.1616 | -17.9 | 134 | 0.00 | |
| 31 | 2-Chloro-1,3-Butadiene | 0.9310 | 0.9269 | 0.4 | 115 | 0.00 | |
| 32 | ETBE | 1.8488 | 2.0821 | -12.6 | 123 | 0.01 | |
| 33 | 2,2-Dichloropropane | 0.8561 | 0.7664 | 10.5 | 104 | 0.00 | |
| 34 P | cis-1,2-Dichloroethene | 0.5972 | 0.6142 | -2.8 | 118 | 0.00 | |
| 35 P | 2-Butanone | 0.3831 | 0.4559 | -19.0 | 135 | 0.00 | |
| 36 | Propionitrile | 0.1244 | 0.1442 | -15.9 | 139 | -0.01 | |
| 37 | Bromochloromethane | 0.3456 | 0.3550 | -2.7 | 121 | 0.02 | |
| 38 | Methacrylonitrile | 0.2950 | 0.3537 | -19.9 | 135 | 0.00 | |
| 39 | Tetrahydrofuran | 0.2235 | 0.2833 | NT | -26.8# | 143 | 0.00 |
| 40 P | Chloroform | 0.9692 | 0.9229 | 4.8 | 115 | 0.00 | |
| 41 P | 1,1,1-Trichloroethane | 0.8203 | 0.7055 | 14.0 | 103 | 0.01 | |
| 42 | TAME | 1.8047 | 1.9352 | -7.2 | 119 | 0.00 | |
| 43 I | 1,4-Difluorobenzene | 1.0000 | 1.0000 | 0.0 | 113 | 0.00 | |
| 44 P | Cyclohexane | 0.3267 | 0.3662 | -12.1 | 132 | 0.00 | |
| 45 s | surr4,Dibrflmethane | 0.2969 | 0.2784 | 6.2 | 106 | 0.00 | |
| 46 P | Carbontetrachloride | 0.3753 | 0.3070 | 18.2 | 92 | 0.00 | |
| 47 | 1,1-Dichloropropene | 0.4404 | 0.4376 | 0.6 | 114 | 0.02 | |
| 48 s | surr1,1,2-dichloroethane-d4 | 0.4068 | 0.3893 | 4.3 | 107 | 0.00 | |
| 49 P | Benzene | 1.3061 | 1.3628 | -4.3 | 120 | 0.00 | |
| 50 P | 1,2-Dichloroethane | 0.4798 | 0.4888 | -1.9 | 117 | 0.00 | |
| 51 | Iso-Butyl Alcohol | 0.0265 | 0.0296 | -11.7 | 133 | 0.00 | |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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) |
|------|-----------------------------|--------|--------|-------|---------|-----------|
| 52 | n-Heptane | 0.4483 | 0.4896 | -9.2 | 125 | 0.02 |
| 53 | 1-Butanol | 0.0175 | 0.0191 | -9.1 | 124 | -0.01 |
| 54 P | Trichloroethene | 0.3350 | 0.3113 | 7.1 | 105 | 0.00 |
| 55 P | Methylcyclohexane | 0.4357 | 0.5278 | NT | -21.1# | 134 0.00 |
| 56 P | 1,2-Diclp propane | 0.3484 | 0.3835 | -10.1 | 128 | 0.01 |
| 57 | Dibromomethane | 0.2080 | 0.2074 | 0.3 | 115 | 0.00 |
| 58 | 1,4-Dioxane | 0.0069 | 0.0074 | -7.2 | 129 | 0.00 |
| 59 | Methyl Methacrylate | 0.3218 | 0.3431 | -6.6 | 125 | 0.00 |
| 60 P | Bromodichloromethane | 0.4386 | 0.4044 | 7.8 | 111 | 0.00 |
| 61 | 2-Nitropropane | 0.1354 | 0.1046 | NT | 22.7# | 90 0.00 |
| 62 | 2-Chloroethylvinyl Ether | 0.0805 | 0.2341 | NT | -190.8# | 338# 0.00 |
| 63 P | cis-1,3-Dichloropropene | 0.5534 | 0.5717 | -3.3 | 114 | 0.00 |
| 64 P | 4-Methyl-2-pentanone | 0.4251 | 0.4858 | -14.3 | 131 | 0.00 |
| 65 s | SURR3,Toluene-d8 | 1.3256 | 1.3097 | 1.2 | 111 | 0.00 |
| 66 P | Toluene | 1.4187 | 1.4128 | 0.4 | 114 | 0.00 |
| 67 P | trans-1,3-Dichloropropene | 0.5155 | 0.5178 | -0.4 | 112 | 0.00 |
| 68 | Ethyl Methacrylate | 0.5263 | 0.5841 | -11.0 | 124 | 0.00 |
| 69 P | 1,1,2-Trichloroethane | 0.3223 | 0.3203 | 0.6 | 121 | 0.00 |
| 70 s | SURR2,BFB | 0.5129 | 0.4774 | 6.9 | 106 | 0.00 |
| 71 I | d5-Chlorobenzene | 1.0000 | 1.0000 | 0.0 | 110 | 0.00 |
| 72 P | Tetrachloroethene | 0.2759 | 0.2621 | 5.0 | 109 | 0.00 |
| 73 P | 2-Hexanone | 0.3681 | 0.4174 | -13.4 | 127 | 0.00 |
| 74 | 1,3-Dichloropropane | 0.6425 | 0.7305 | -13.7 | 127 | 0.00 |
| 75 P | Dibromochloromethane | 0.3353 | 0.3239 | 3.4 | 105 | 0.00 |
| 76 | N-Butyl Acetate | 0.6929 | 0.9429 | NT | -36.1# | 143 0.00 |
| 77 P | 1,2-Dibromoethane | 0.3562 | 0.3703 | -4.0 | 116 | 0.00 |
| 78 P | Chlorobenzene | 0.9796 | 1.0262 | -4.8 | 115 | 0.00 |
| 79 | 3-CBTF | 0.5223 | 0.5377 | -2.9 | 118 | 0.00 |
| 80 | 4-CBTF | 0.4773 | 0.4858 | -1.8 | 118 | 0.00 |
| 81 | 1,1,1,2-Tetrachloroethane | 0.3482 | 0.3243 | 6.9 | 105 | 0.00 |
| 82 P | Ethylbenzene | 0.5408 | 0.5310 | 1.8 | 110 | 0.00 |
| 83 P | (m+p)Xylene | 0.6546 | 0.6676 | -2.0 | 113 | 0.00 |
| 84 P | o-Xylene | 0.6554 | 0.6701 | -2.2 | 113 | 0.00 |
| 85 P | Styrene | 1.1033 | 1.1507 | -4.3 | 112 | 0.00 |
| 86 I | 1,4-Dichlorobenzene-d4 | 1.0000 | 1.0000 | 0.0 | 111 | 0.00 |
| 87 P | Bromoform | 0.4361 | 0.4079 | 6.5 | 104 | 0.00 |
| 88 | 2-CBTF | 0.9684 | 1.0295 | -6.3 | 118 | 0.00 |
| 89 P | Isopropylbenzene | 3.2851 | 3.2097 | 2.3 | 107 | 0.00 |
| 90 | Cyclohexanone | 0.2499 | 0.2593 | -3.8 | 118 | 0.00 |
| 91 | trans-1,4-Dichloro-2-Butene | 0.2603 | 0.2759 | -6.0 | 120 | 0.00 |
| 92 P | 1,1,2,2-Tetrachloroethane | 0.9914 | 1.1151 | -12.5 | 129 | 0.00 |
| 93 | Bromobenzene | 0.8046 | 0.8147 | -1.3 | 114 | 0.00 |
| 94 | 1,2,3-Trichloropropane | 0.3221 | 0.3363 | -4.4 | 118 | 0.00 |
| 95 | n-Propylbenzene | 3.8197 | 3.8884 | -1.8 | 109 | 0.00 |
| 96 | 2-Chlorotoluene | 2.3682 | 2.3701 | -0.1 | 112 | 0.00 |
| 97 | 3-Chlorotoluene | 2.4978 | 2.5840 | -3.5 | 113 | 0.00 |
| 98 | 4-Chlorotoluene | 2.7362 | 2.7524 | -0.6 | 111 | 0.00 |
| 99 | 1,3,5-Trimethylbenzene | 2.7476 | 2.7124 | 1.3 | 107 | 0.00 |
| 100 | tert-Butylbenzene | 2.3716 | 2.3040 | 2.9 | 106 | 0.00 |
| 101 | 1,2,4-Trimethylbenzene | 2.7517 | 2.7426 | 0.3 | 108 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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) |
|-------|-----------------------------|--------|--------|----------|------------------|----------|
| 102 | 3,4-DCBTF | 0.7689 | 0.8783 | -14.2 | 123 | 0.00 |
| 103 | sec-Butylbenzene | 3.4901 | 3.4051 | 2.4 | 105 | 0.00 |
| 104 | p-Isopropyltoluene | 2.9371 | 2.8614 | 2.6 | 106 | 0.00 |
| 105 P | 1,3-Dclbenz | 1.5293 | 1.5581 | -1.9 | 112 | 0.00 |
| 106 P | 1,4-Dclbenz | 1.6050 | 1.6208 | -1.0 | 115 | 0.00 |
| 107 | 2,4-DCBTF | 0.7333 | 0.7941 | -8.3 | 120 | 0.00 |
| 108 | 2,5-DCBTF | 0.7842 | 0.8992 | -14.7 | 127 | 0.00 |
| 109 | n-Butylbenzene | 2.7396 | 2.7978 | -2.1 | 108 | 0.00 |
| 110 P | 1,2-Dclbenz | 1.5264 | 1.5514 | -1.6 | 112 | 0.00 |
| 111 P | 1,2-Dibromo-3-chloropropane | 0.2566 | 0.2348 | 8.5 | 111 | 0.00 |
| 112 | Trielution Dichlorotoluene | 1.5014 | 1.6143 | -7.5 | 116 | 0.00 |
| 113 | 1,3,5 Trichlorobenzene | 1.1884 | 1.3332 | -12.2 | 121 | 0.00 |
| 114 | Coelution Dichlorotoluene | 1.5924 | 1.8072 | -13.5 | 118 | 0.00 |
| 115 P | 1,2,4-Tcbenzene | 1.1095 | 1.2841 | -15.7 | 122 | 0.00 |
| 116 | Hexachlorobt | 0.5150 | 0.4843 | 6.0 | 106 | 0.00 |
| 117 | Naphthalen | 3.0613 | 3.7736 | NT-23.3# | 125 | 0.00 |
| 118 | 1,2,3-Tclbenzene | 1.0777 | 1.2786 | -18.6 | 125 | 0.00 |
| 119 | 2,4,5-Trichlorotoluene | 0.6534 | 0.8015 | -12.7 | 22.7# | 112 0.00 |
| 120 | 2,3,6-Trichlorotoluene | 0.5941 | 0.7515 | -13.3 | 26.5# | 114 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 315594 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 530528 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 459768 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 234637 | 50.00 | ppb | 0.00 |

| | | | | | | |
|-------------------------------|--------|-------|----------|----------|-----|--------|
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 147702 | 46.89 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 93.78% |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 206540 | 47.85 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 95.70% |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 694846 | 49.40 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 98.80% |
| 70) SURR2,BFB | 10.864 | 95 | 253255 | 46.54 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 93.08% |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane | 1.183 | 85 | 196503 | 51.18 | ppb | 99 |
| 3) Chloromethane | 1.311 | 50 | 221463 | 46.15 | ppb | 100 |
| 4) Vinyl Chloride | 1.384 | 62 | 239014 | 51.13 | ppb | 98 |
| 5) Bromomethane | 1.610 | 94 | 93601 | 25.34 | ppb | 95 |
| 6) Chloroethane | 1.689 | 64 | 150039 | 51.41 | ppb | 98 |
| 7) Freon 21 | 1.835 | 67 | 355557 | 58.93 | ppb | 100 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 212824 | 47.25 | ppb | 97 |
| 9) Diethyl Ether | 2.116 | 59 | 185093 | 59.04 | ppb | 97 |
| 10) Freon 123a | 2.122 | 67 | 222202 | 58.30 | ppb | 89 |
| 11) Freon 123 | 2.170 | 83 | 249398 | 56.55 | ppb | 99 |
| 12) Acrolein | 2.213 | 56 | 176426 | 189.09 | ppb | 100 |
| 13) 1,1-Diclcethene | 2.305 | 96 | 151659 | 46.78 | ppb | 94 |
| 14) Freon 113 | 2.311 | 101 | 141691 | 46.26 | ppb | 96 |
| 15) Acetone | 2.347 | 43 | 111673 | 58.03 | ppb | 98 |
| 16) 2-Propanol | 2.475 | 45 | 442099 | 1197.40 | ppb | 100 |
| 17) Iodomethane | 2.433 | 142 | 191812 | 48.81 | ppb | 99 |
| 18) Carbon Disulfide | 2.500 | 76 | 469885 | 49.70 | ppb | 99 |
| 19) Acetonitrile | 2.591 | 40 | 111382 | 339.01 | ppb | 98 |
| 20) Allyl Chloride | 2.634 | 76 | 94988 | 55.02 | ppb | # 89 |
| 21) Methyl Acetate | 2.658 | 43 | 230389 | 67.04 | ppb | 98 |
| 22) Methylene Chloride | 2.750 | 84 | 186212 | 54.46 | ppb | 92 |
| 23) TBA | 2.878 | 59 | 688496 | 1081.81 | ppb | 94 |
| 24) Acrylonitrile | 3.000 | 53 | 559246 | 302.75 | ppb | 99 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 631124 | 54.31 | ppb | 97 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 164935 | 49.81 | ppb | 94 |
| 28) 1,1-Diclcethane | 3.536 | 63 | 330453 | 54.38 | ppb | 98 |
| 29) Vinyl Acetate | 3.627 | 86 | 44077 | 45.43 | ppb | 97 |
| 30) DIPE | 3.664 | 45 | 682201 | 58.95 | ppb | 91 |
| 31) 2-Chloro-1,3-Butadiene | 3.664 | 53 | 292534 | 49.78 | ppb | 92 |
| 32) ETBE | 4.188 | 59 | 657086 | 56.31 | ppb | 97 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 241875 | 44.76 | ppb | 97 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 193851 | 51.43 | ppb | 99 |
| 35) 2-Butanone | 4.414 | 43 | 143870 | 59.50 | ppb | 98 |
| 36) Propionitrile | 4.493 | 54 | 227508 | 289.80 | ppb | 94 |
| 37) Bromochloromethane | 4.767 | 130 | 112034 | 51.36 | ppb | 93 |
| 38) Methacrylonitrile | 4.767 | 67 | 111613 | 59.93 | ppb | 92 |
| 39) Tetrahydrofuran | 4.853 | 42 | 89393 | 63.37 | ppb | 91 |
| 40) Chloroform | 4.944 | 83 | 291259 | 47.61 | ppb | 99 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 222639 | 43.00 | ppb | 99 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 610728 | 53.61 | ppb | 98 |
| 44) Cyclohexane | 5.334 | 41 | 194295 | 56.06 | ppb | 89 |
| 46) Carbontetrachloride | 5.517 | 117 | 162861 | 40.90 | ppb | 99 |
| 47) 1,1-Dichloropropene | 5.536 | 75 | 232157 | 49.68 | ppb | 97 |
| 49) Benzene | 5.847 | 78 | 722988 | 52.17 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.889 | 62 | 259312 | 50.94 | ppb | 97 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 313673 | 1115.89 | ppb | 91 |
| 52) n-Heptane | 6.340 | 43 | 259728 | 54.60 | ppb | 94 |
| 53) 1-Butanol | 6.822 | 56 | 507629 | 2729.31 | ppb | 98 |
| 54) Trichloroethene | 6.798 | 130 | 165149 | 46.47 | ppb | 99 |
| 55) Methylcyclohexane | 7.035 | 55 | 280003 | 60.57 | ppb | 92 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 203449 | 55.03 | ppb | 98 |
| 57) Dibromomethane | 7.218 | 93 | 110008 | 49.84 | ppb | 95 |
| 58) 1,4-Dioxane | 7.279 | 88 | 78076 | 1069.92 | ppb | 96 |
| 59) Methyl Methacrylate | 7.310 | 69 | 182040 | 53.31 | ppb | 96 |
| 60) Bromodichloromethane | 7.450 | 83 | 214554 | 46.11 | ppb | 97 |
| 61) 2-Nitropropane | 7.730 | 41 | 110992 | 77.23 | ppb | 94 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 124194 | 145.36 | ppb | 94 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 303300 | 51.66 | ppb | 98 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 257737 | 57.14 | ppb | 99 |
| 66) Toluene | 8.364 | 91 | 749549 | 49.79 | ppb | 98 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 274700 | 50.22 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.779 | 69 | 309863 | 55.49 | ppb | 97 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 169914 | 49.69 | ppb | 96 |
| 72) Tetrachloroethene | 8.962 | 164 | 120500 | 47.49 | ppb | 97 |
| 73) 2-Hexanone | 9.114 | 43 | 191909 | 56.69 | ppb | 95 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 335854 | 56.85 | ppb | 99 |
| 75) Dibromochloromethane | 9.218 | 129 | 148936 | 48.30 | ppb | 98 |
| 76) N-Butyl Acetate | 9.273 | 43 | 433524 | 68.04 | ppb | 98 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 170254 | 51.98 | ppb | 97 |
| 78) Chlorobenzene | 9.809 | 112 | 471836 | 52.38 | ppb | 97 |
| 79) 3-CBTF | 9.834 | 180 | 247218 | 51.47 | ppb | 93 |
| 80) 4-CBTF | 9.888 | 180 | 223358 | 50.89 | ppb | 95 |
| 81) 1,1,1,2-Tetrachloroethane | 9.901 | 131 | 149107 | 46.57 | ppb | 96 |
| 82) Ethylbenzene | 9.931 | 106 | 244148 | 49.09 | ppb | 100 |
| 83) (m+p)Xylene | 10.047 | 106 | 613901 | 101.99 | ppb | 95 |
| 84) o-Xylene | 10.401 | 106 | 308098 | 51.12 | ppb | 96 |
| 85) Styrene | 10.419 | 104 | 529056 | 52.15 | ppb | 97 |
| 87) Bromoform | 10.565 | 173 | 95708 | 46.76 | ppb | 97 |
| 88) 2-CBTF | 10.650 | 180 | 241567 | 53.16 | ppb | 91 |
| 89) Isopropylbenzene | 10.736 | 105 | 753107 | 48.85 | ppb | 98 |
| 90) Cyclohexanone | 10.797 | 55 | 1216948 | 1037.69 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 64744 | 52.99 | ppb | 89 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 261639 | 56.24 | ppb | 96 |
| 93) Bromobenzene | 10.986 | 156 | 191151 | 50.63 | ppb | 94 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 78919 | 52.22 | ppb | 99 |
| 95) n-Propylbenzene | 11.095 | 91 | 912368 | 50.90 | ppb | 98 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 556114 | 50.04 | ppb | 95 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 606309 | 51.73 | ppb | 98 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 645821 | 50.30 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 636428 | 49.36 | ppb | 98 |
| 100) tert-Butylbenzene | 11.522 | 119 | 540603 | 48.57 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 643526 | 49.83 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 206090 | 57.11 | ppb | 97 |
| 103) sec-Butylbenzene | 11.705 | 105 | 798974 | 48.78 | ppb | 99 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 671384 | 48.71 | ppb | 98 |

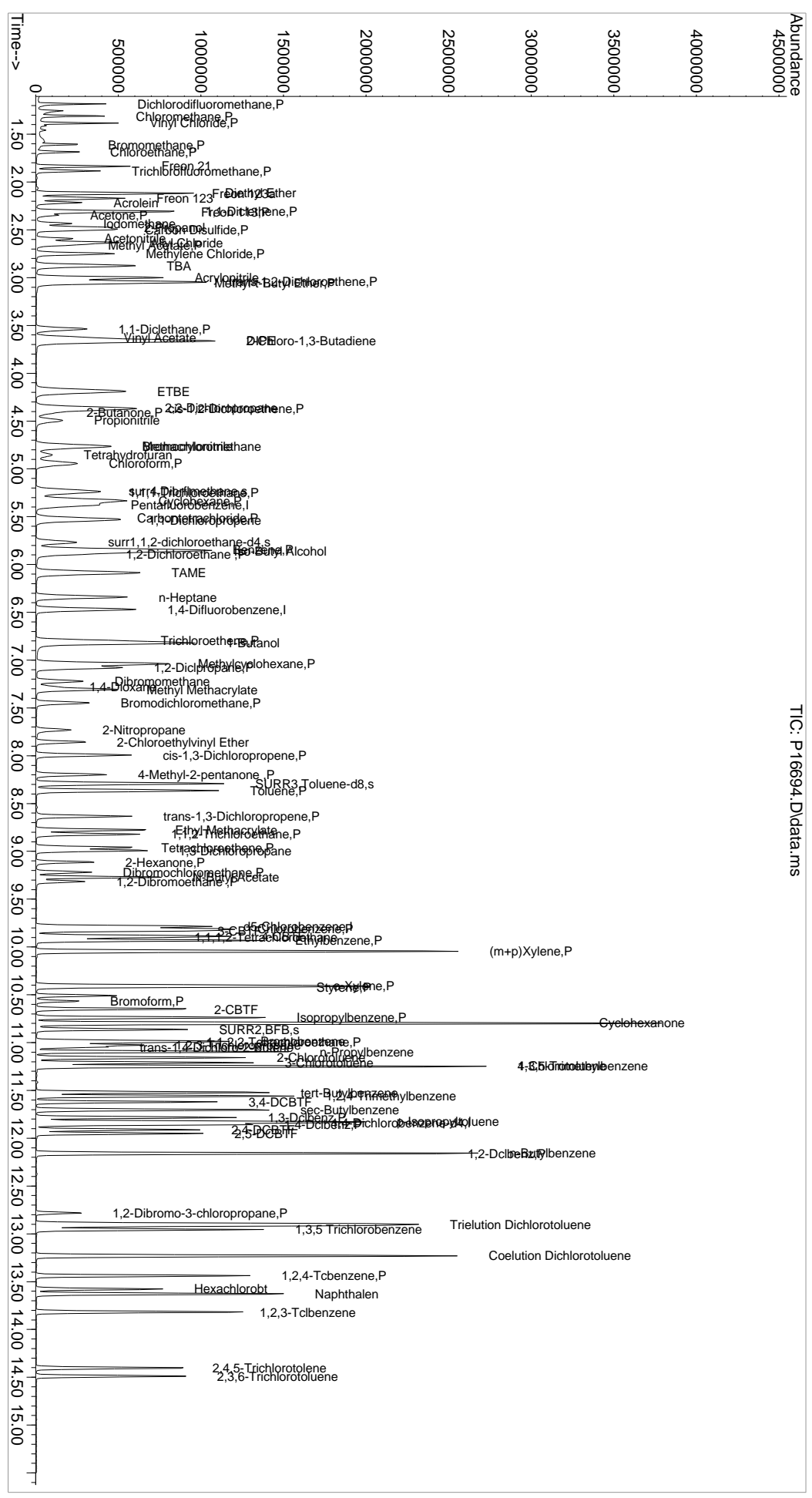
Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA-12
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 365587 | 50.94 | ppb | 98 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 380297 | 50.49 | ppb | 96 |
| 107) 2,4-DCBTF | 11.912 | 214 | 186326 | 54.15 | ppb | 97 |
| 108) 2,5-DCBTF | 11.949 | 214 | 210976 | 57.33 | ppb | 93 |
| 109) n-Butylbenzene | 12.156 | 91 | 656463 | 51.06 | ppb | 100 |
| 110) 1,2-Dclbenz | 12.162 | 146 | 364023 | 50.82 | ppb | 98 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 55088 | 45.75 | ppb | 90 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 1136342 | 161.28 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 312818 | 56.09 | ppb | 97 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 848065 | 113.49 | ppb | 100 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 301288 | 57.87 | ppb | 97 |
| 116) Hexachlorobt | 13.577 | 225 | 113643 | 47.02 | ppb | 96 |
| 117) Naphthalen | 13.626 | 128 | 885419 | 61.63 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.821 | 180 | 300018 | 59.32 | ppb | 98 |
| 119) 2,4,5-Trichlorotolene | 14.406 | 159 | 188060 | 56.36 | ppb | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 176322 | 56.66 | ppb | 98 |

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

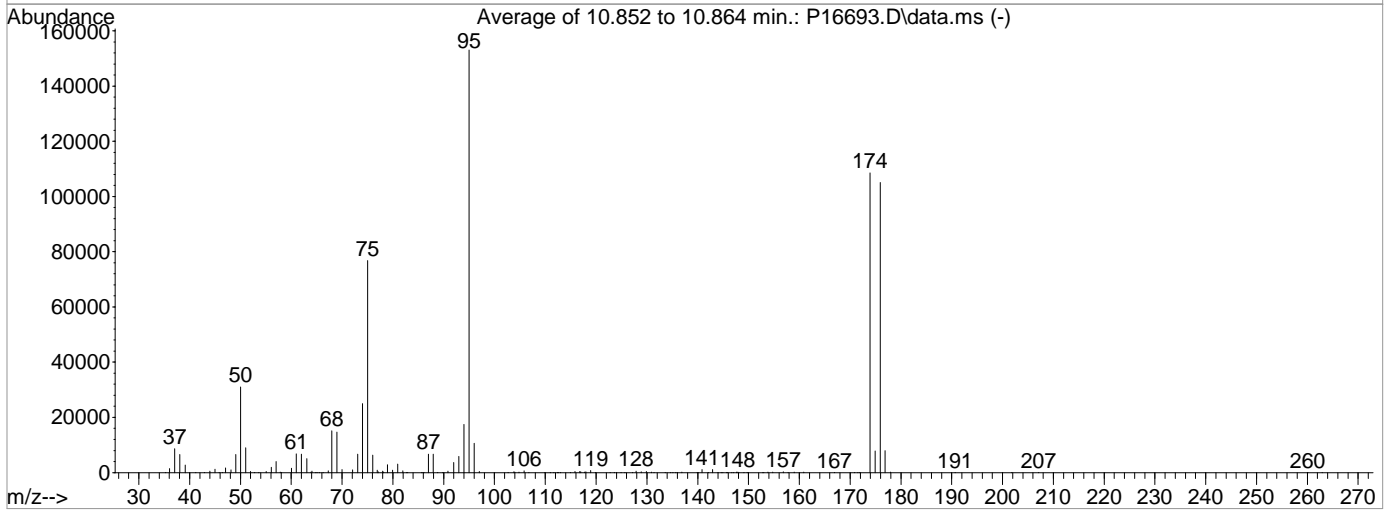
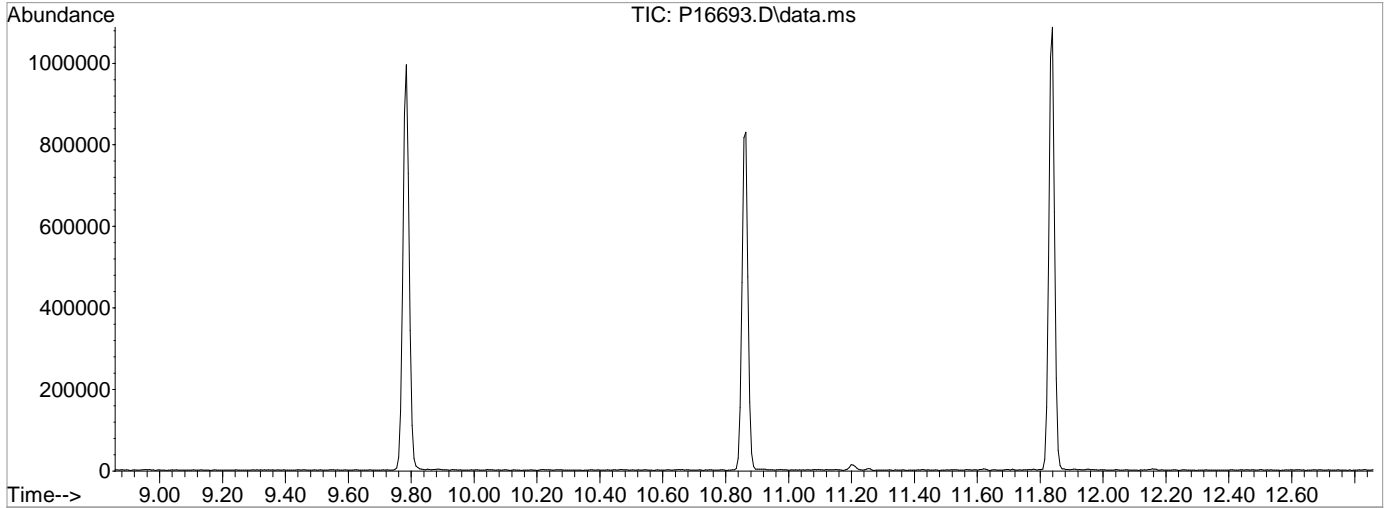
Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Sample Vial : 1
 Sample Multiplier: 1
 Inst : MSVOA-12
 Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QIast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16693.D
Acq On : 27 Mar 2018 10:03 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1
Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Jan 02 13:02:22 2018



AutoFind: Scans 1600, 1601, 1602; Background Corrected with Scan 1594

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 20.2 | 30995 | PASS |
| 75 | 95 | 30 | 60 | 50.1 | 76771 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 153101 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 10555 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 70.9 | 108565 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 7848 | PASS |
| 176 | 174 | 95 | 101 | 96.8 | 105096 | PASS |
| 177 | 176 | 5 | 9 | 7.5 | 7909 | PASS |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15162.D
 Acq On : 29 Dec 2017 9:43 pm
 Operator : K.Ruest
 Sample : ICV 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|------------|--------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 287947 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 479951 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 424833 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 218758 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.225 | 113 | 141452 | 49.64 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 99.28% | | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 193466 | 49.54 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 99.08% | | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 624876 | 49.11 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 98.22% | | | |
| 70) SURR2,BFB | 10.858 | 95 | 237241 | 48.19 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 96.38% | | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 134291 | 38.34 | ppb | | 98 |
| 3) Chloromethane | 1.305 | 50 | 190453 | 43.50 | ppb | | 99 |
| 4) Vinyl Chloride | 1.384 | 62 | 199400 | 46.76 | ppb | | 99 |
| 5) Bromomethane | 1.609 | 94 | 142716 | 45.39 | ppb | | 97 |
| 6) Chloroethane | 1.689 | 64 | 124204 | 46.65 | ppb | | 97 |
| 7) Freon 21 | 1.835 | 67 | 285350 | 51.83 | ppb | | 98 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 213052 | 51.84 | ppb | | 96 |
| 9) Diethyl Ether | 2.115 | 59 | 136922 | 47.87 | ppb | | 98 |
| 10) Freon 123a | 2.121 | 67 | 191670 | 55.12 | ppb | | 99 |
| 11) Freon 123 | 2.170 | 83 | 210567 | 52.33 | ppb | | 99 |
| 12) Acrolein | 2.213 | 56 | 54829 | 64.41 | ppb | | 94 |
| 13) 1,1-Dicethene | 2.304 | 96 | 133150 | 45.02 | ppb | | 99 |
| 14) Freon 113 | 2.310 | 101 | 130157 | 46.57 | ppb | | 95 |
| 15) Acetone | 2.347 | 43 | 85120 | 48.48 | ppb | | 99 |
| 16) 2-Propanol | 2.475 | 45 | 333226 | 989.18 | ppb | | 100 |
| 17) Iodomethane | 2.432 | 142 | 126267 | 36.58 | ppb | | 96 |
| 18) Carbon Disulfide | 2.499 | 76 | 396813 | 46.00 | ppb | | 98 |
| 19) Acetonitrile | 2.591 | 40 | 71030 | 236.95 | ppb | | 100 |
| 20) Allyl Chloride | 2.634 | 76 | 73512 | 46.67 | ppb | | 92 |
| 21) Methyl Acetate | 2.658 | 43 | 157488 | 50.23 | ppb | | 99 |
| 22) Methylene Chloride | 2.749 | 84 | 150486 | 48.24 | ppb | | 99 |
| 23) TBA | 2.877 | 59 | 560668 | 965.55 | ppb | | 99 |
| 24) Acrylonitrile | 2.999 | 53 | 402143 | 238.60 | ppb | | 99 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 507837 | 47.90 | ppb | | 99 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 144824 | 47.94 | ppb | | 97 |
| 28) 1,1-Dicethane | 3.536 | 63 | 274458 | 49.51 | ppb | | 97 |
| 29) Vinyl Acetate | 3.627 | 86 | 38188 | 43.14 | ppb | # | 92 |
| 30) DIPE | 3.664 | 45 | 492688 | 46.67 | ppb | | 97 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 243854 | 45.48 | ppb | | 94 |
| 32) ETBE | 4.188 | 59 | 513182 | 48.20 | ppb | | 97 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 227846 | 46.22 | ppb | | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 164996 | 47.97 | ppb | | 95 |
| 35) 2-Butanone | 4.408 | 43 | 103585 | 46.96 | ppb | | 98 |
| 36) Propionitrile | 4.493 | 54 | 164268 | 229.34 | ppb | | 95 |
| 37) Bromochloromethane | 4.761 | 130 | 97230 | 48.85 | ppb | | 96 |
| 38) Methacrylonitrile | 4.761 | 67 | 88251 | 51.94 | ppb | | 94 |
| 39) Tetrahydrofuran | 4.853 | 42 | 65186 | 50.65 | ppb | | 86 |
| 40) Chloroform | 4.944 | 83 | 263420 | 47.20 | ppb | | 98 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 228157 | 48.30 | ppb | | 98 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15162.D
 Acq On : 29 Dec 2017 9:43 pm
 Operator : K.Ruest
 Sample : ICV 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 507580 | 48.84 | ppb | 98 |
| 44) Cyclohexane | 5.334 | 41 | 144705 | 46.15 | ppb | 99 |
| 46) Carbontetrachloride | 5.523 | 117 | 183593 | 50.96 | ppb | 96 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 209652 | 49.59 | ppb | 98 |
| 49) Benzene | 5.846 | 78 | 620472 | 49.49 | ppb | 100 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 221444 | 48.08 | ppb | 98 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 240444 | 945.52 | ppb | 97 |
| 52) n-Heptane | 6.340 | 43 | 193642 | 45.00 | ppb | 96 |
| 53) 1-Butanol | 6.822 | 56 | 419687 | 2494.27 | ppb | 99 |
| 54) Trichloroethene | 6.797 | 130 | 162270 | 50.47 | ppb | 96 |
| 55) Methylcyclohexane | 7.035 | 55 | 205143 | 49.05 | ppb | 98 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 162105 | 48.47 | ppb | 96 |
| 57) Dibromomethane | 7.218 | 93 | 95483 | 47.82 | ppb | 98 |
| 58) 1,4-Dioxane | 7.279 | 88 | 64491 | 976.88 | ppb | 97 |
| 59) Methyl Methacrylate | 7.303 | 69 | 149451 | 48.38 | ppb | 99 |
| 60) Bromodichloromethane | 7.450 | 83 | 202525 | 48.11 | ppb | 95 |
| 61) 2-Nitropropane | 7.724 | 41 | 120257 | 92.50 | ppb | 98 |
| 62) 2-Chloroethylvinyl Ether | 7.852 | 63 | 38992 | 50.45 | ppb | 94 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 263518 | 49.61 | ppb | 97 |
| 64) 4-Methyl-2-pentanone | 8.193 | 43 | 188470 | 46.19 | ppb | 95 |
| 66) Toluene | 8.364 | 91 | 677037 | 49.72 | ppb | 98 |
| 67) trans-1,3-Dichloropropene | 8.632 | 75 | 248645 | 50.25 | ppb | 98 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 261322 | 51.73 | ppb | 99 |
| 69) 1,1,2-Trichloroethane | 8.821 | 97 | 145623 | 47.07 | ppb | 97 |
| 72) Tetrachloroethene | 8.956 | 164 | 111631 | 47.62 | ppb | 97 |
| 73) 2-Hexanone | 9.108 | 43 | 146355 | 46.79 | ppb | 94 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 265741 | 48.68 | ppb | 98 |
| 75) Dibromochloromethane | 9.218 | 129 | 143505 | 50.37 | ppb | 97 |
| 76) N-Butyl Acetate | 9.266 | 43 | 315825 | 53.65 | ppb | 96 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 147070 | 48.59 | ppb | 97 |
| 78) Chlorobenzene | 9.809 | 112 | 427179 | 51.32 | ppb | 99 |
| 79) 3-CBTF | 9.827 | 180 | 209132 | 47.12 | ppb | 95 |
| 80) 4-CBTF | 9.882 | 180 | 186198 | 45.91 | ppb | 96 |
| 81) 1,1,1,2-Tetrachloroethane | 9.894 | 131 | 146680 | 49.58 | ppb | 95 |
| 82) Ethylbenzene | 9.931 | 106 | 228973 | 49.83 | ppb | 98 |
| 83) (m+p)Xylene | 10.041 | 106 | 559632 | 100.62 | ppb | 100 |
| 84) o-Xylene | 10.400 | 106 | 276930 | 49.73 | ppb | 100 |
| 85) Styrene | 10.413 | 104 | 479273 | 51.13 | ppb | 98 |
| 87) Bromoform | 10.565 | 173 | 95178 | 49.88 | ppb | 99 |
| 88) 2-CBTF | 10.644 | 180 | 204322 | 48.23 | ppb | 94 |
| 89) Isopropylbenzene | 10.736 | 105 | 711427 | 49.50 | ppb | 98 |
| 90) Cyclohexanone | 10.797 | 55 | 836747 | 765.29 | ppb | 97 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 61025 | 53.58 | ppb | 99 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 207141 | 47.76 | ppb | 96 |
| 93) Bromobenzene | 10.979 | 156 | 172547 | 49.02 | ppb | 96 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 69365 | 49.23 | ppb | 94 |
| 95) n-Propylbenzene | 11.095 | 91 | 844300 | 50.52 | ppb | 100 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 532215 | 51.37 | ppb | 99 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 537133 | 49.15 | ppb | 97 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 589390 | 49.23 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 616952 | 51.32 | ppb | 98 |
| 100) tert-Butylbenzene | 11.516 | 119 | 520317 | 50.14 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 626900 | 52.07 | ppb | 98 |
| 102) 3,4-DCBTF | 11.620 | 214 | 161549 | 48.02 | ppb | 98 |
| 103) sec-Butylbenzene | 11.699 | 105 | 776457 | 50.85 | ppb | 99 |
| 104) p-Isopropyltoluene | 11.821 | 119 | 664383 | 51.70 | ppb | 100 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15162.D
 Acq On : 29 Dec 2017 9:43 pm
 Operator : K.Ruest
 Sample : ICV 50ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 02 15:22:52 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

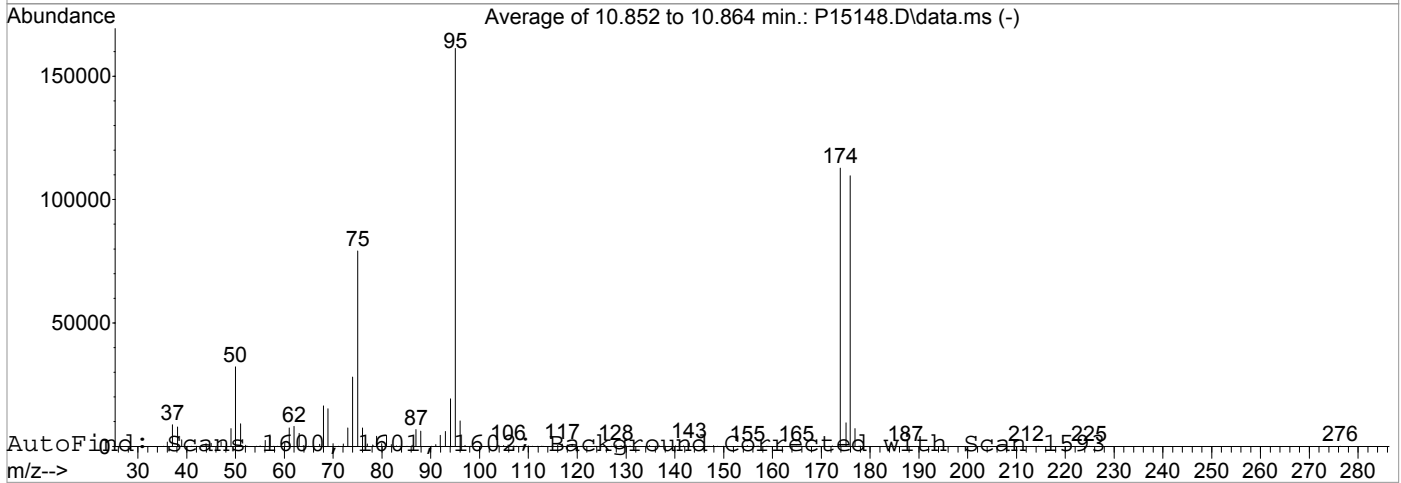
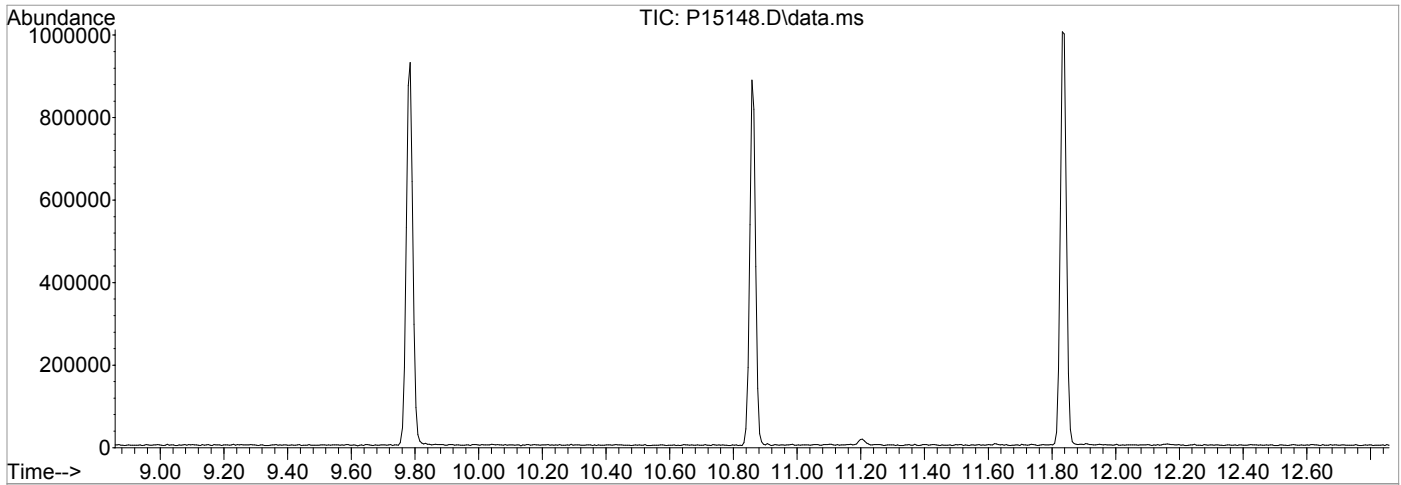
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 336727 | 50.32 | ppb | 97 |
| 106) 1,4-Dclbenz | 11.857 | 146 | 346237 | 49.31 | ppb | 99 |
| 107) 2,4-DCBTF | 11.912 | 214 | 153233 | 47.76 | ppb | 97 |
| 108) 2,5-DCBTF | 11.949 | 214 | 162889 | 47.48 | ppb | 98 |
| 109) n-Butylbenzene | 12.156 | 91 | 633806 | 52.88 | ppb | 99 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 339670 | 50.86 | ppb | 98 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 53218 | 47.40 | ppb | 93 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 973605 | 148.21 | ppb | 99 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 261939 | 50.38 | ppb | 96 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 720830 | 103.46 | ppb | 100 |
| 115) 1,2,4-Tcbenzene | 13.436 | 180 | 255427 | 52.62 | ppb | 96 |
| 116) Hexachlorobt | 13.577 | 225 | 110049 | 48.84 | ppb | 98 |
| 117) Naphthalen | 13.625 | 128 | 749449 | 55.96 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 255017 | 54.08 | ppb | 98 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 167006 | 53.91 | ppb | 99 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 158730 | 54.85 | ppb | 97 |

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

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15148.D
 Acq On : 29 Dec 2017 4:24 pm
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Dec 29 09:19:07 2017



| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 20.0 | 32261 | PASS |
| 75 | 95 | 30 | 60 | 49.1 | 79149 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 161277 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 10343 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 69.9 | 112739 | PASS |
| 175 | 174 | 5 | 9 | 8.5 | 9553 | PASS |
| 176 | 174 | 95 | 101 | 97.2 | 109600 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 7155 | PASS |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15149.D
 Acq On : 29 Dec 2017 5:01 pm
 Operator : K.Ruest
 Sample : IBLK
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:24:56 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 312401 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 516664 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 453641 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 224311 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 153044 | 49.89 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 99.78% | |
| 48) surr1,1,2-dichloroetha... | 5.761 | 65 | 209116 | 49.74 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 99.48% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 677259 | 49.44 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.88% | |
| 70) SURR2,BFB | 10.858 | 95 | 255019 | 48.12 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 96.24% | |

Target Compounds Qvalue

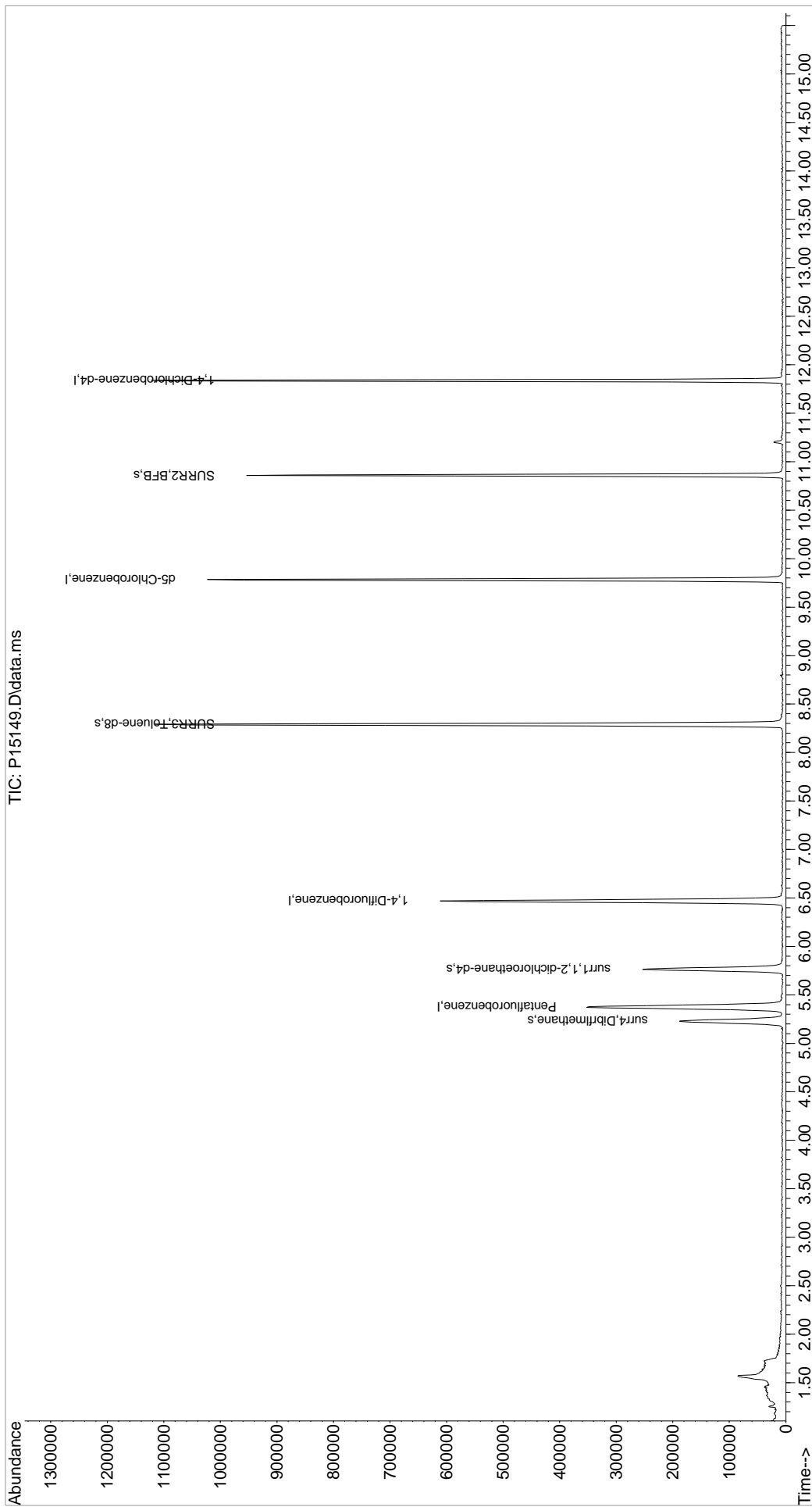
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa12\Data\122917\
Data File : P15149.D
Acq On : 29 Dec 2017 5:01 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

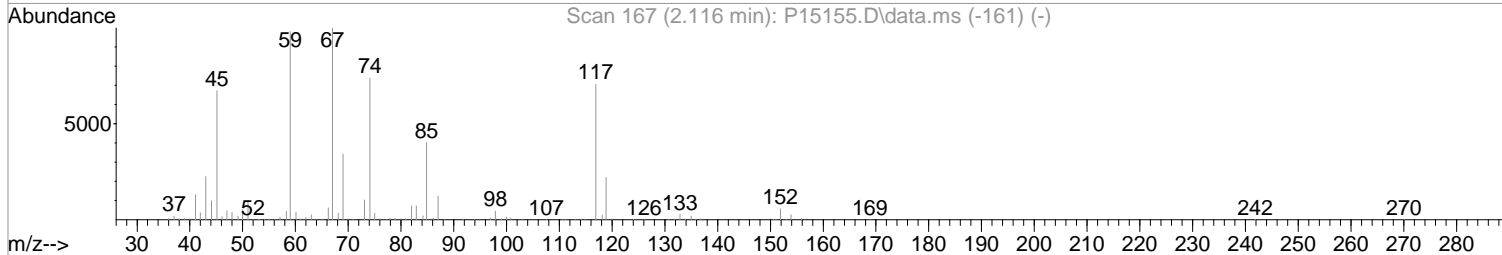
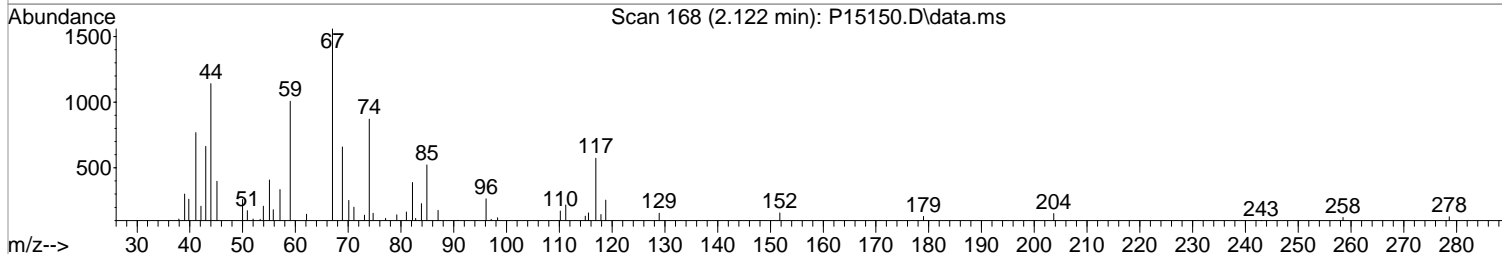
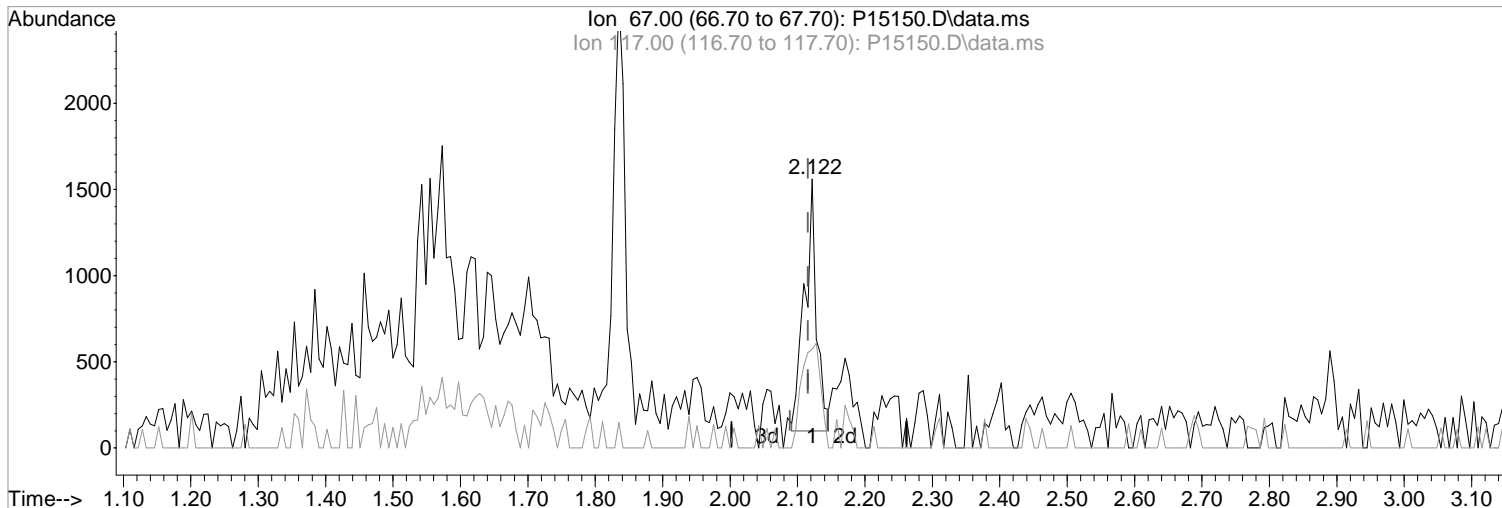
Inst : MSVOA-12

Quant Time: Jan 02 15:24:56 2018
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1
Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(10) Freon 123a
2.122min (+0.006) 0.54 ppb m
response 1826

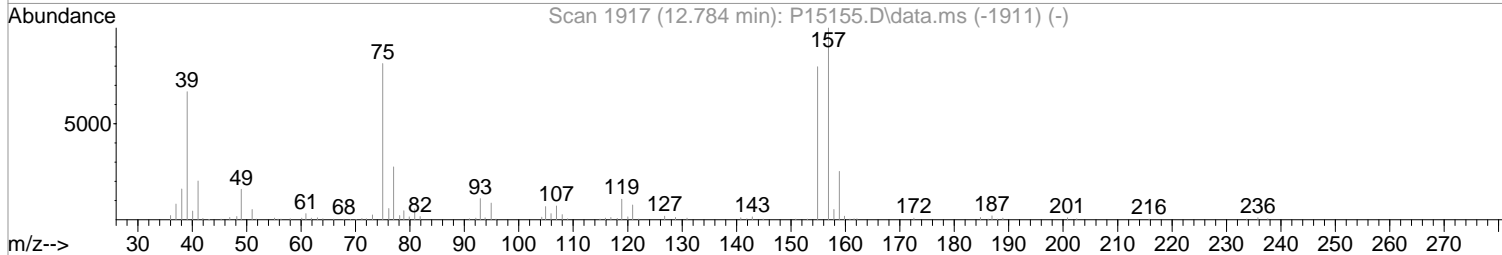
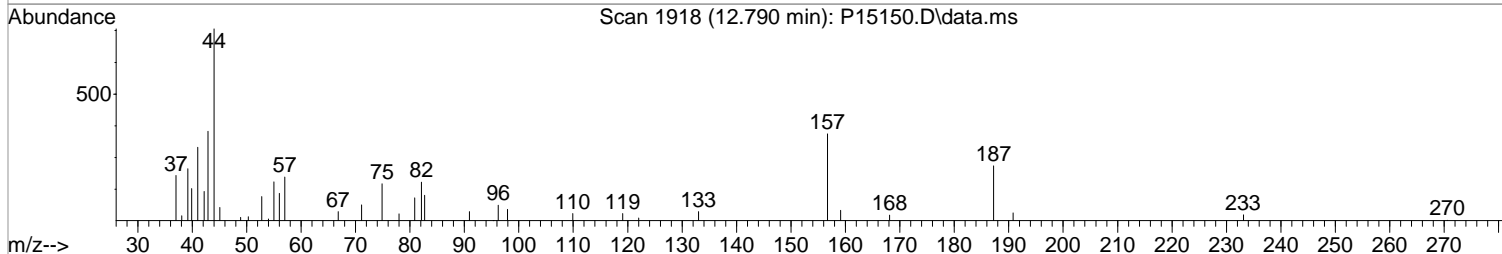
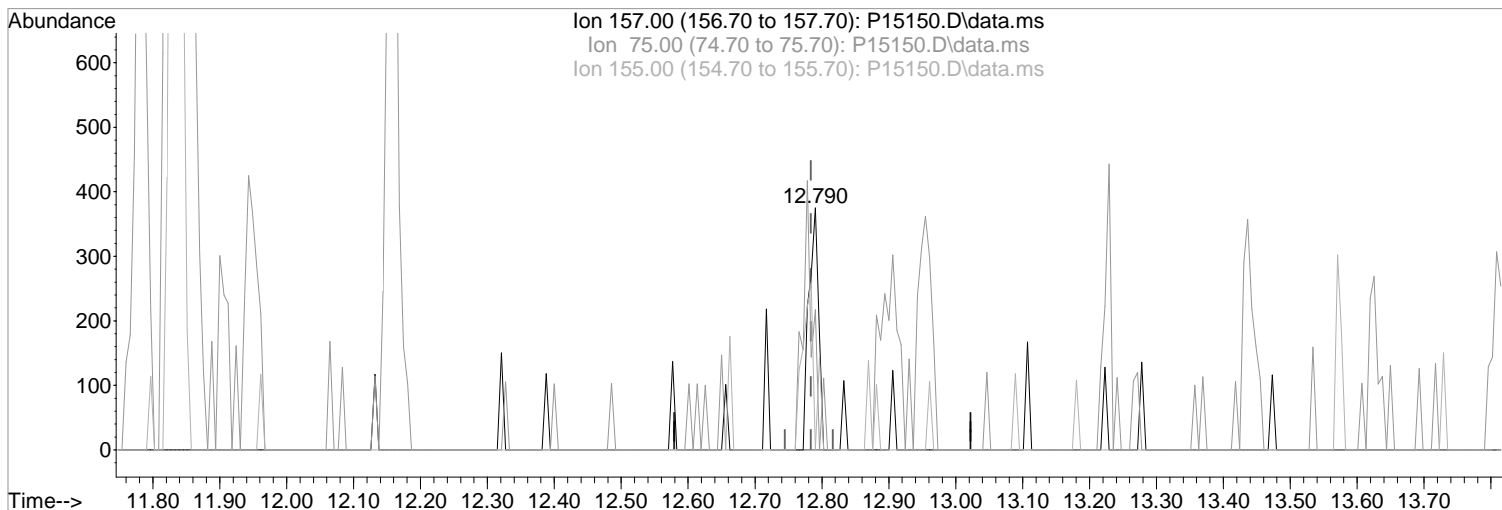
Manual Integration:
After
Poor integration.

| Ion | Exp% | Act% |
|--------|-------|--------|
| 67.00 | 100 | 100 |
| 117.00 | 70.30 | 36.73# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1
Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(111) 1,2-Dibromo-3-chloropropane (P)

12.790min (+0.006) 0.39 ppb m
response 383

| Ion | Exp% | Act% |
|--------|-------|--------|
| 157.00 | 100 | 100 |
| 75.00 | 81.40 | 57.87# |
| 155.00 | 79.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

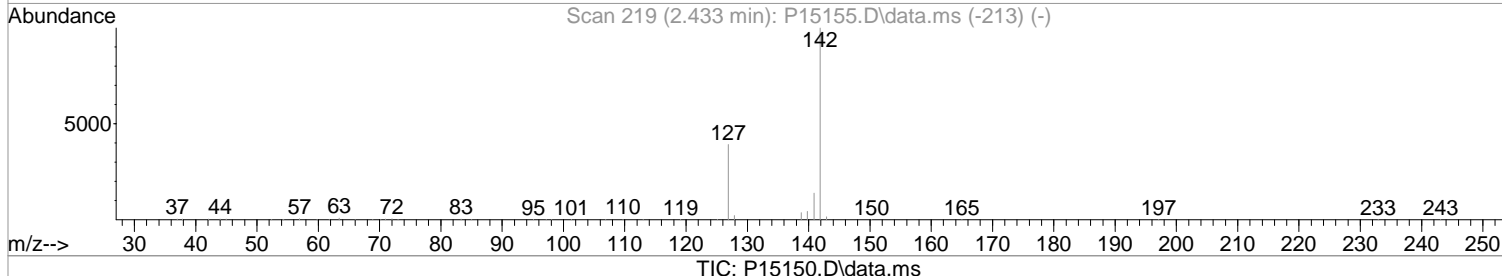
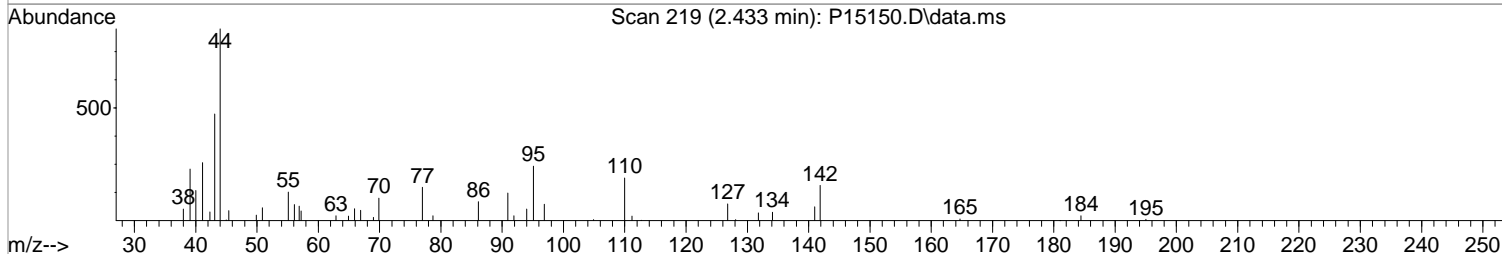
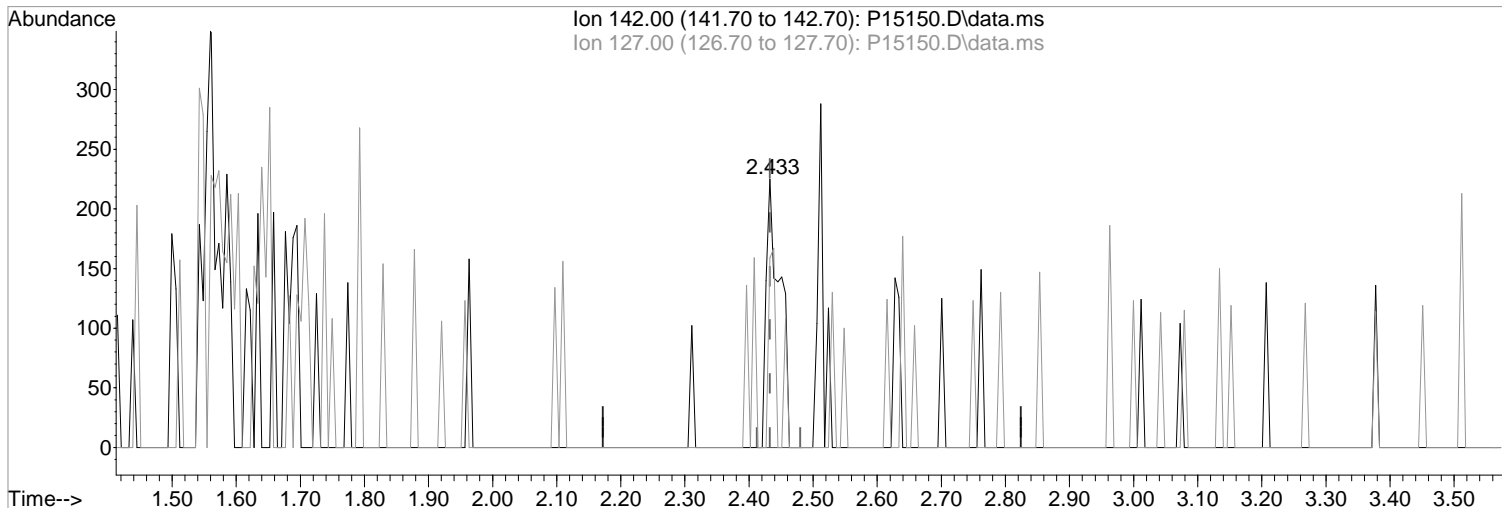
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(17) Iodomethane
2.433min (+0.000) 0.13 ppb m
response 336

Manual Integration:
After
Poor integration.

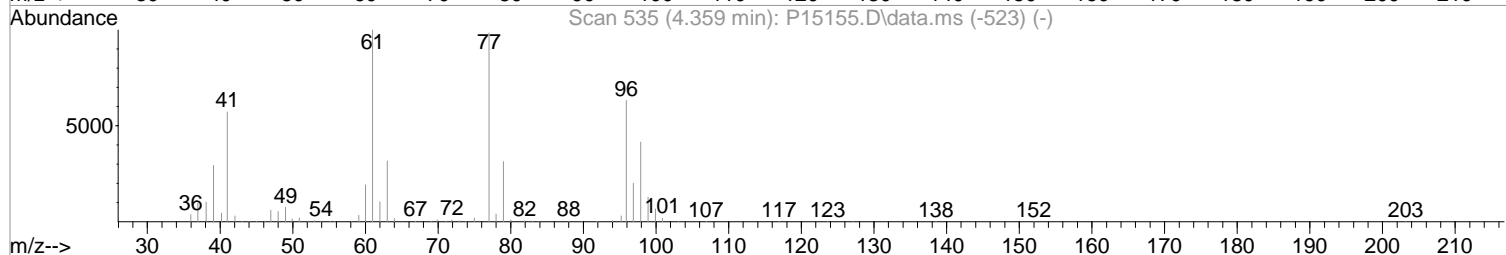
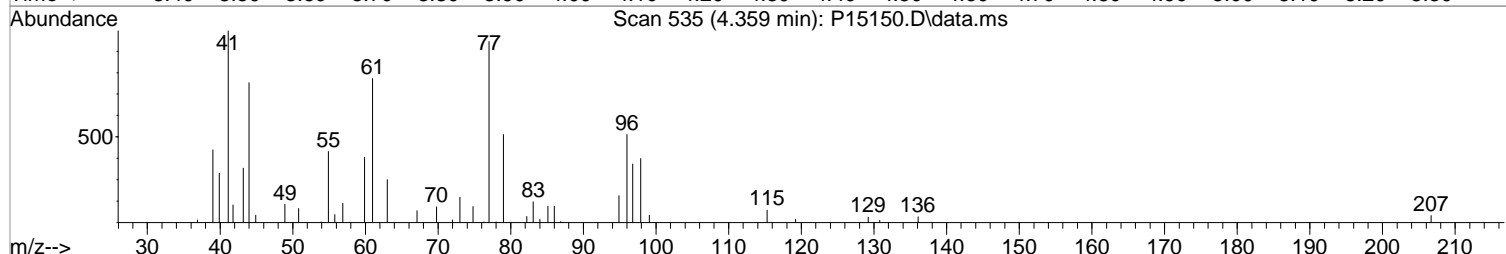
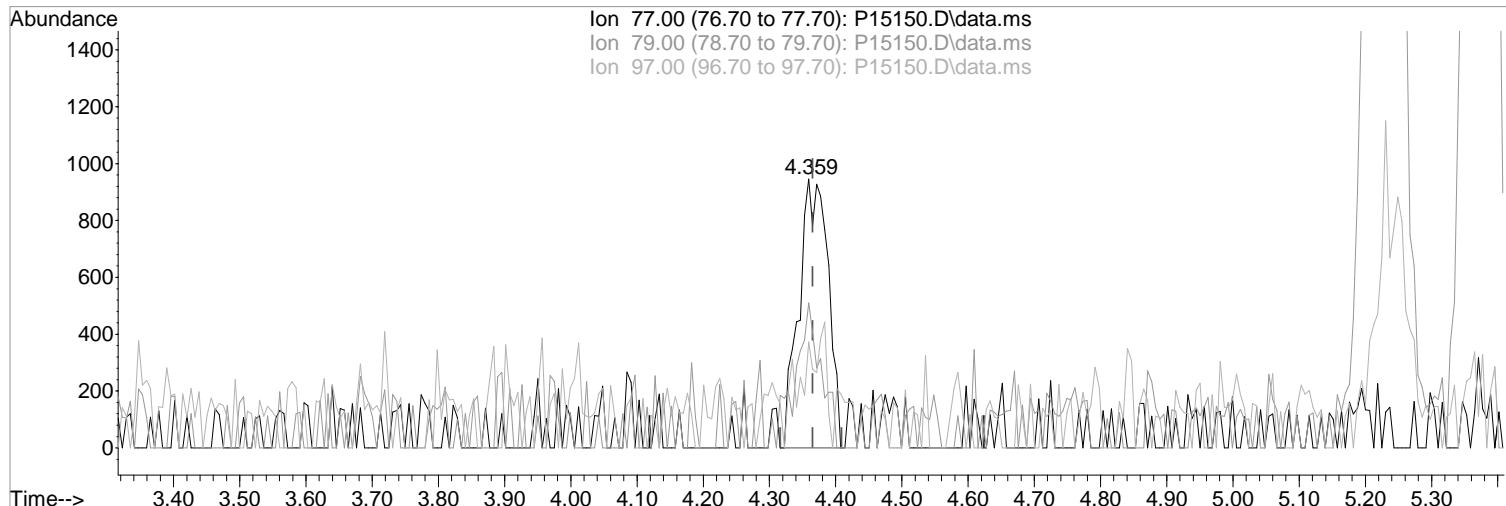
| Ion | Exp% | Act% |
|--------|-------|--------|
| 142.00 | 100 | 100 |
| 127.00 | 39.10 | 70.67# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15150.D\data.ms

(33) 2,2-Dichloropropane
4.359min (-0.006) 0.60 ppb m
response 2888

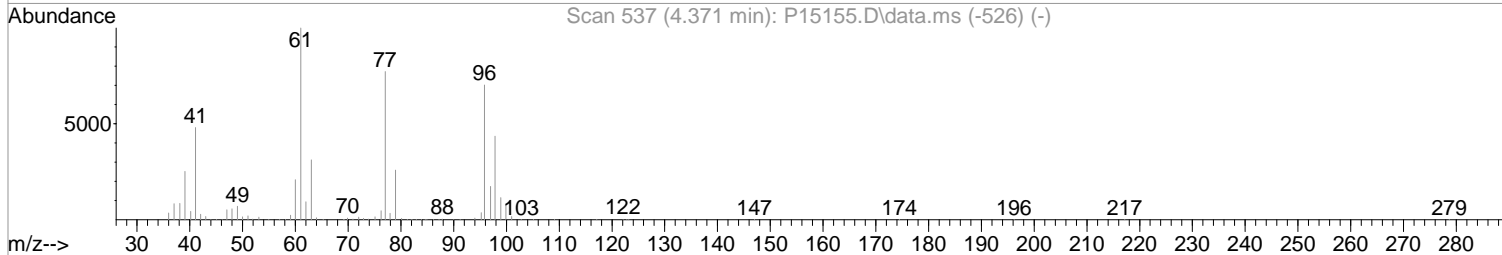
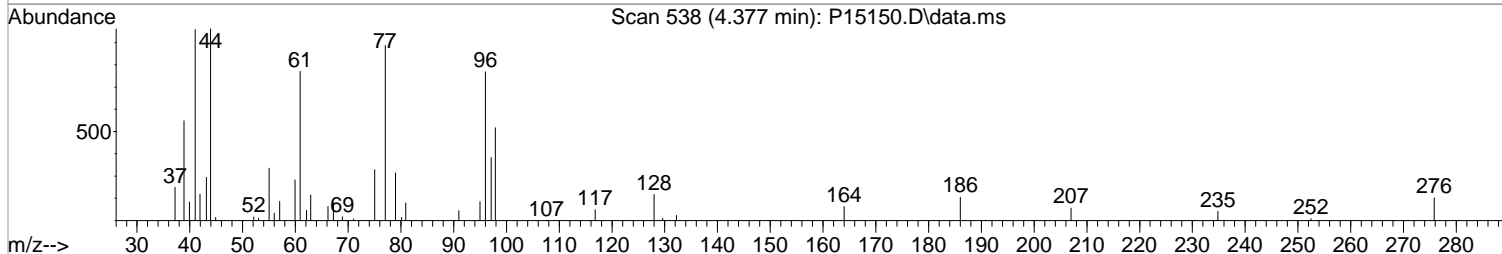
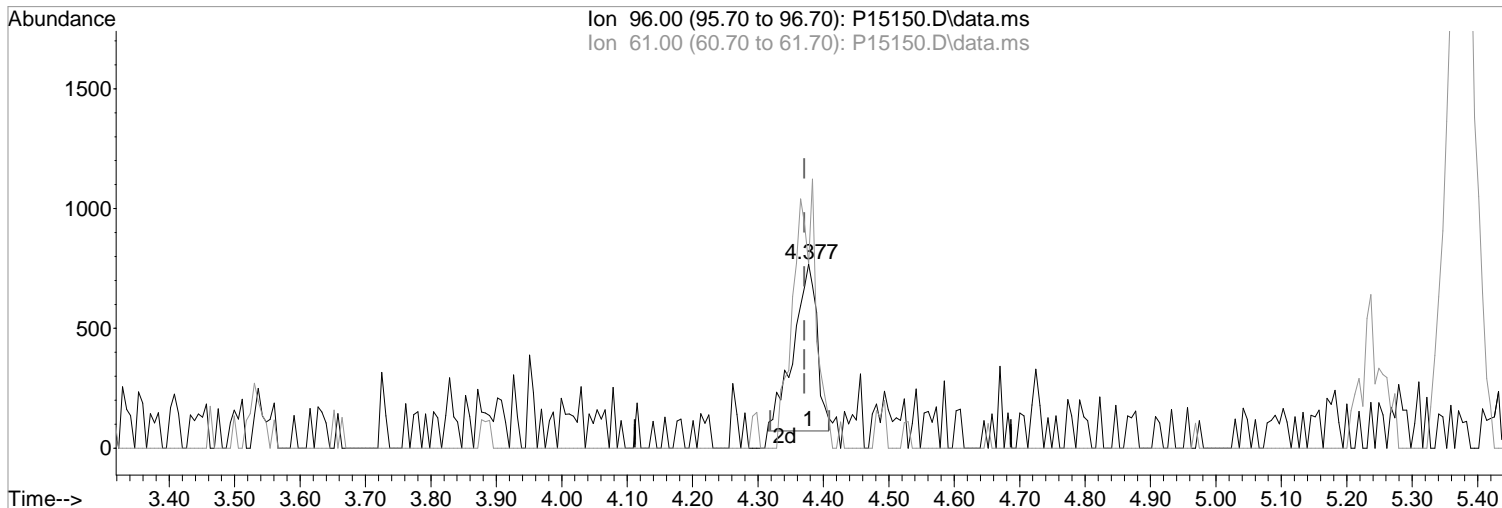
Manual Integration:
After
Poor integration.

| Ion | Exp% | Act% |
|-------|-------|--------|
| 77.00 | 100 | 100 |
| 79.00 | 32.10 | 53.91# |
| 97.00 | 20.60 | 39.43 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15150.D
 Acq On : 29 Dec 2017 5:22 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.49 ppb m
 response 1739

| Ion | Exp% | Act% |
|-------|--------|---------|
| 96.00 | 100 | 100 |
| 61.00 | 142.80 | 100.26# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

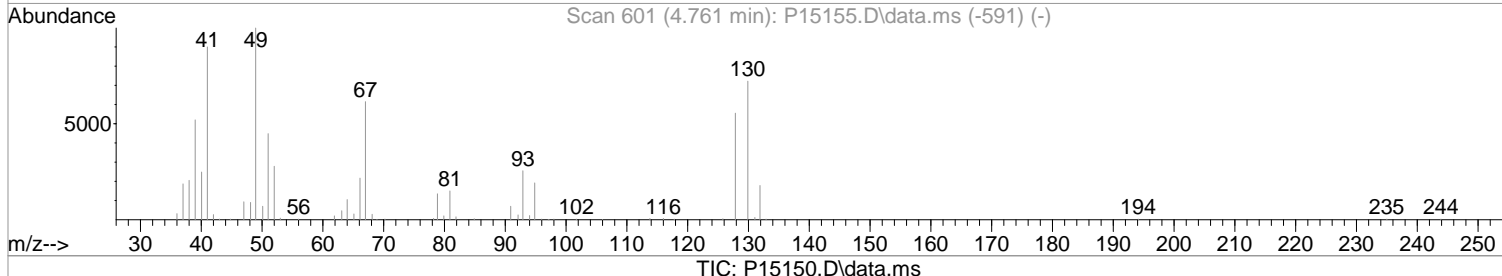
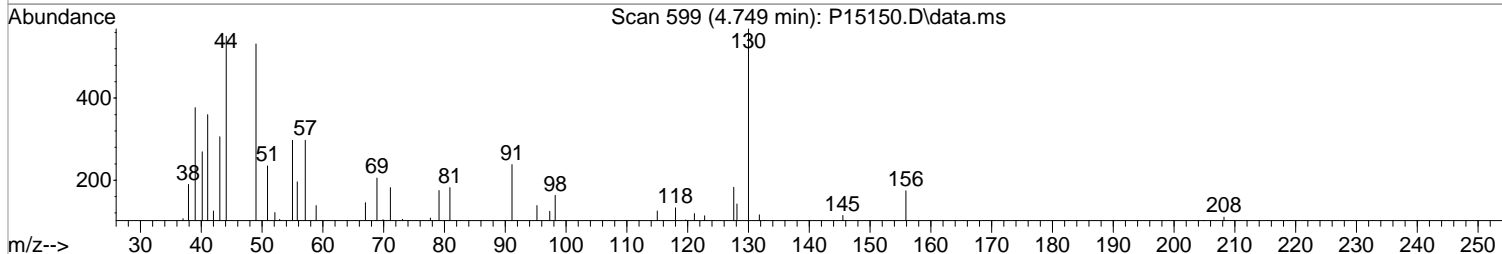
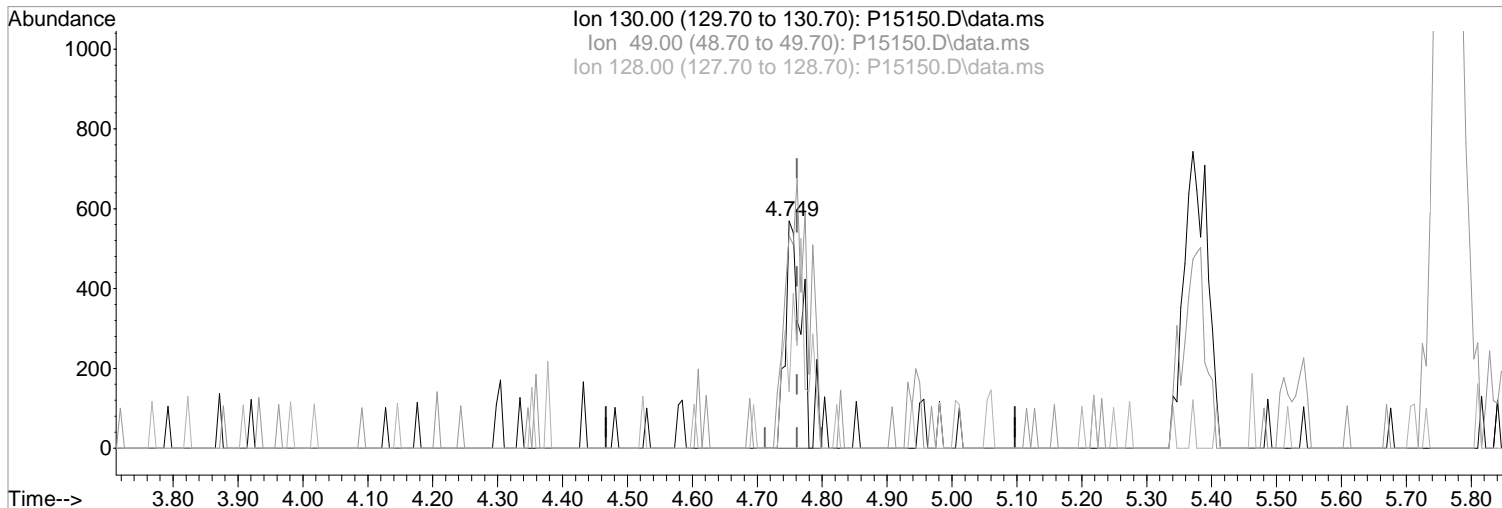
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(37) Bromochloromethane

4.749min (-0.012) 0.52 ppb m

response 1011

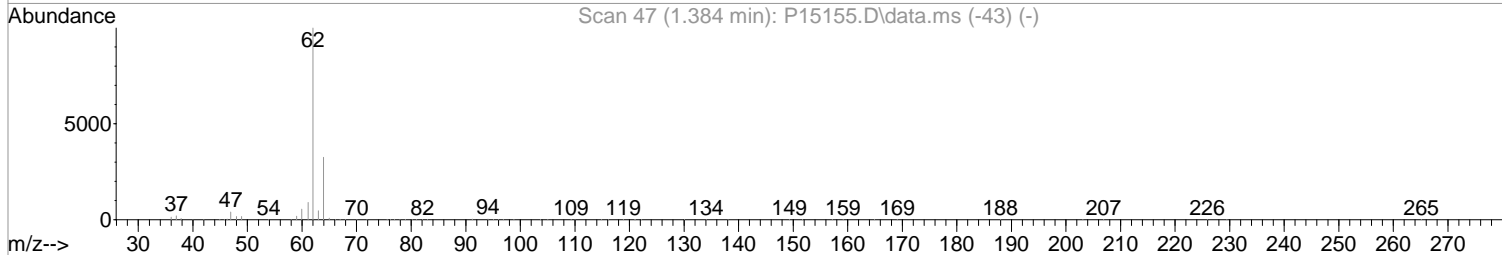
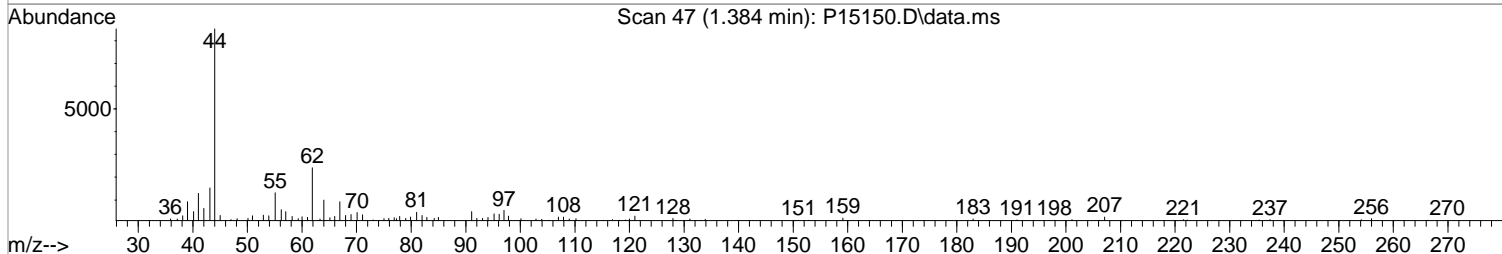
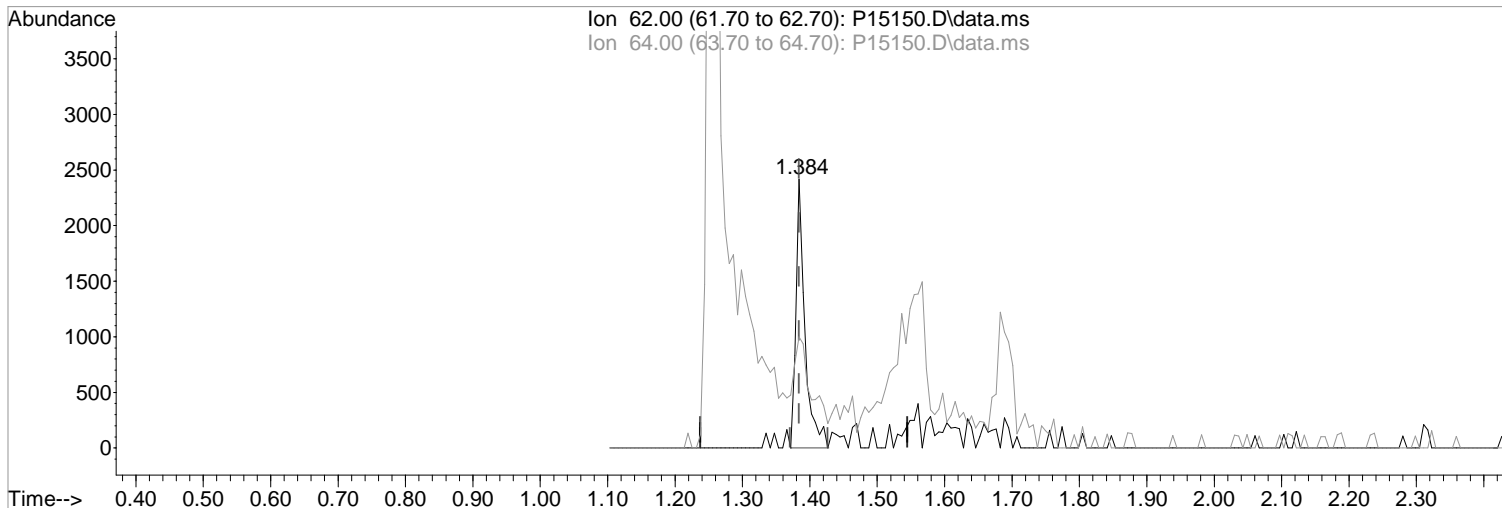
| Ion | Exp% | Act% |
|--------|--------|--------|
| 130.00 | 100 | 100 |
| 49.00 | 139.00 | 93.50# |
| 128.00 | 77.10 | 24.96# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Poor integration.
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15150.D\data.ms

(4) Vinyl Chloride (P)
1.384min (+0.000) 0.53 ppb m
response 2220

Manual Integration:

After

Poor integration.

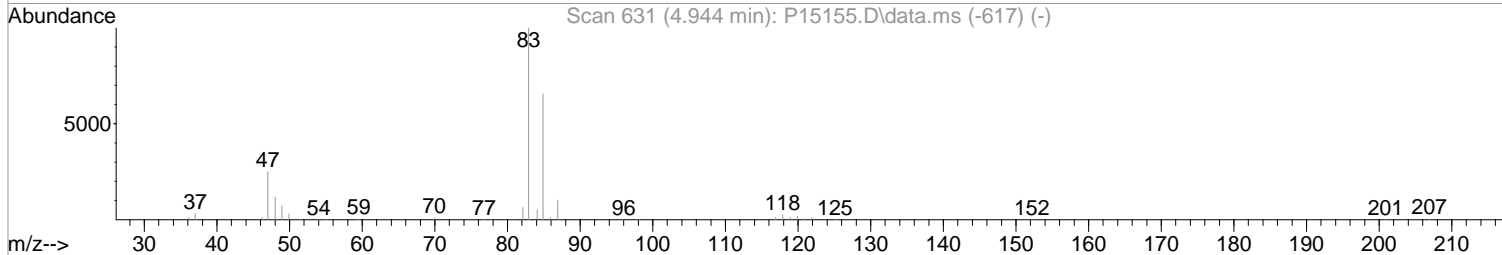
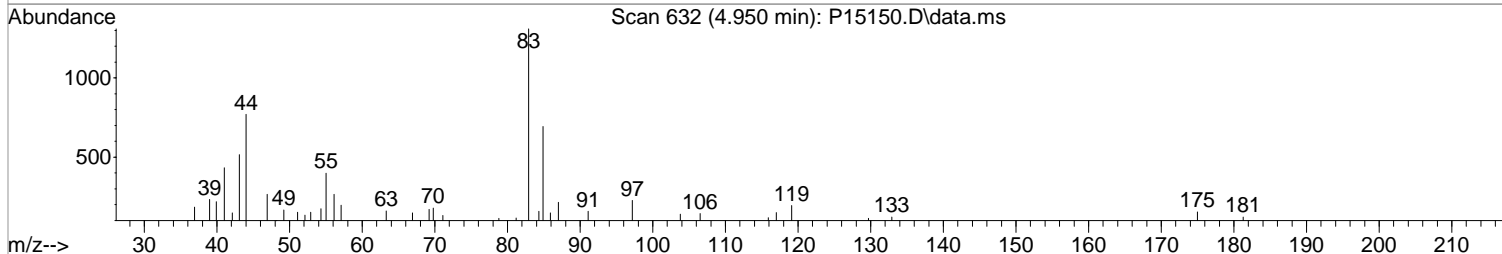
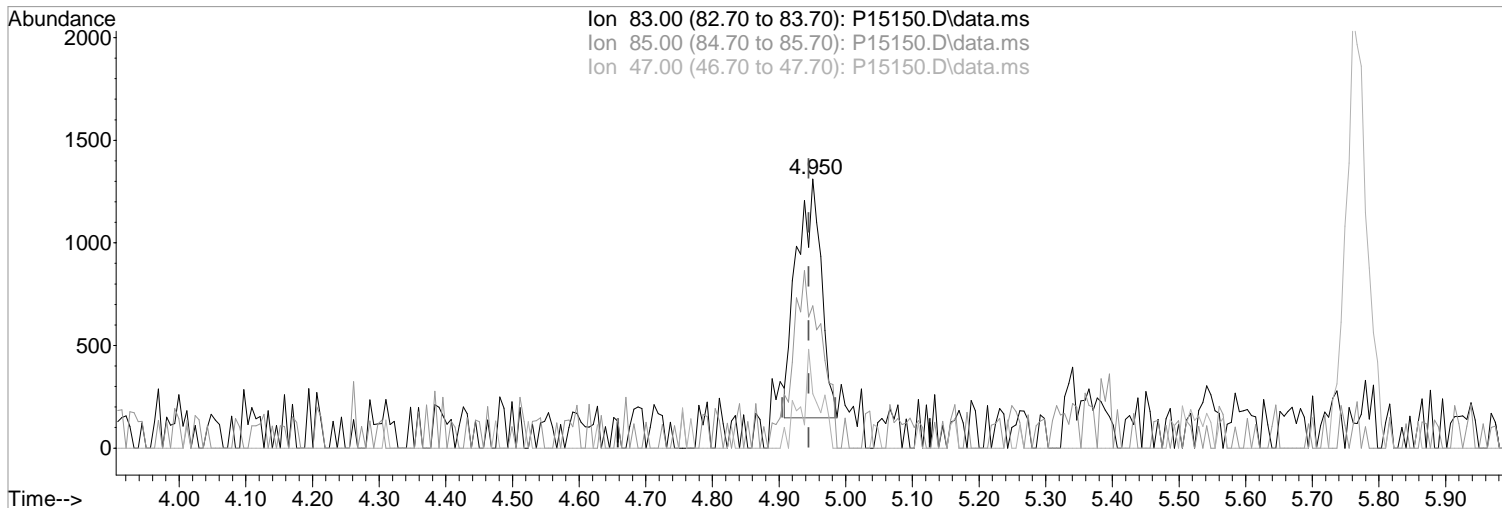
01/02/18

| Ion | Exp% | Act% |
|-------|-------|-------|
| 62.00 | 100 | 100 |
| 64.00 | 32.80 | 41.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15150.D\data.ms

(40) Chloroform (P)

4.950min (+0.006) 0.51 ppb m

response 2984

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 65.60 | 52.86 |
| 47.00 | 24.90 | 20.21 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

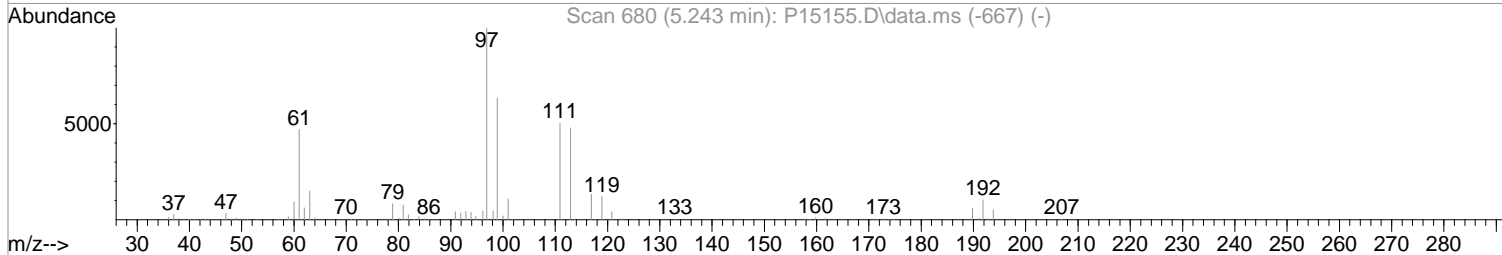
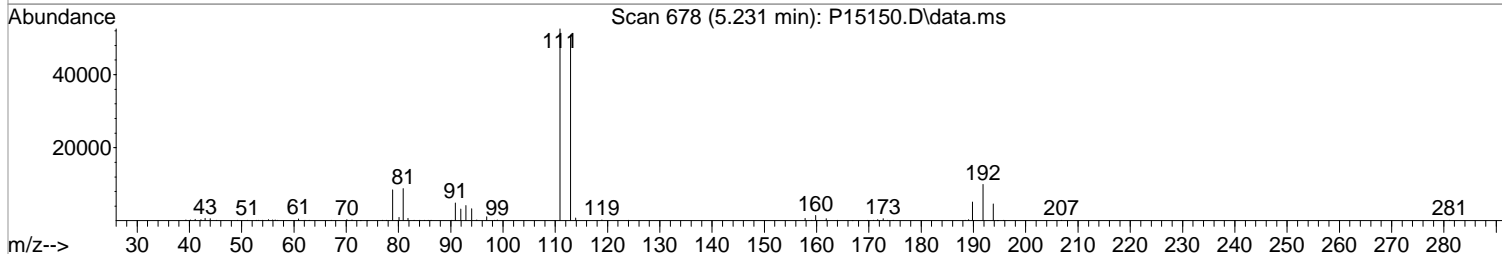
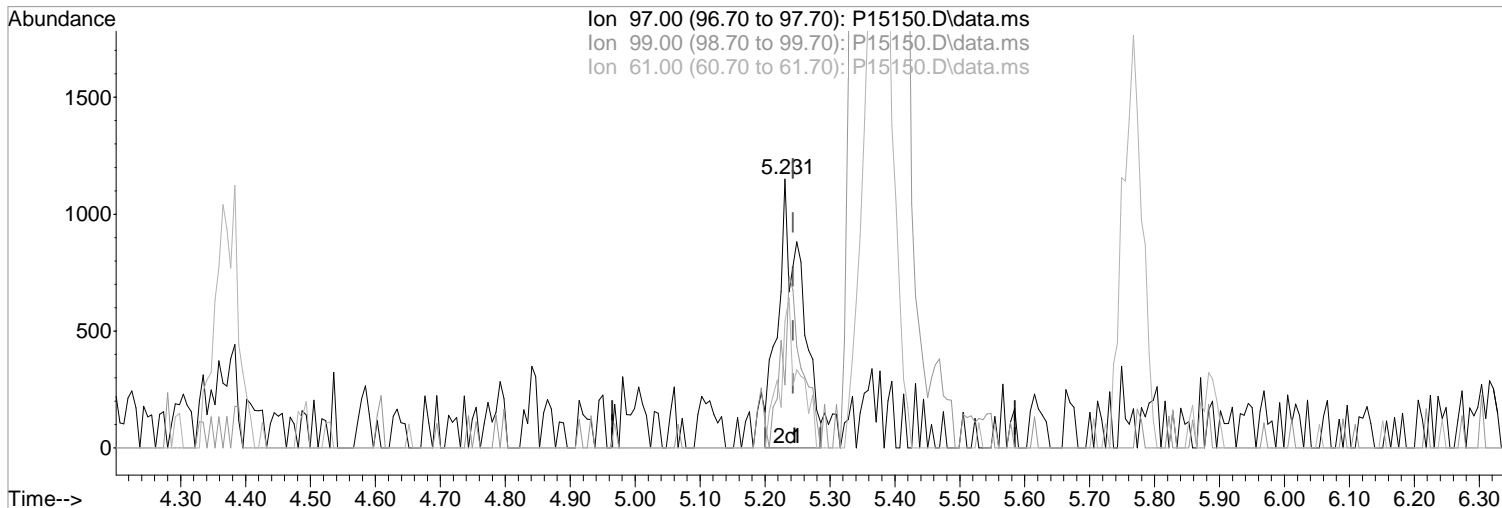
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



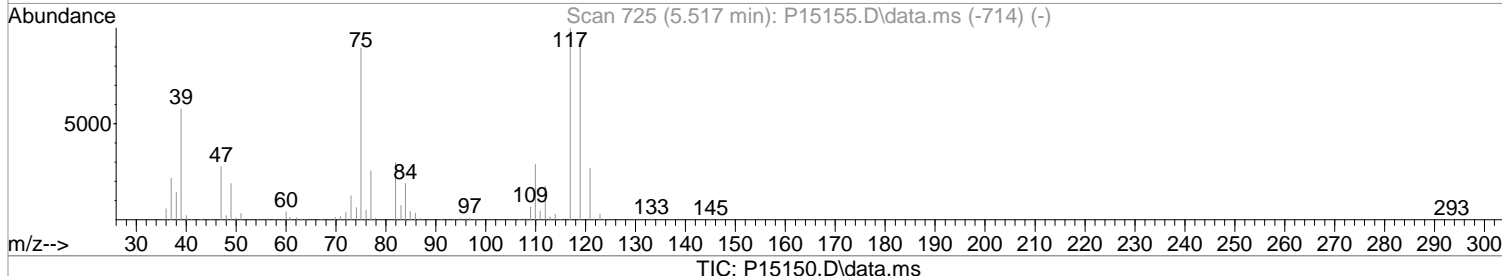
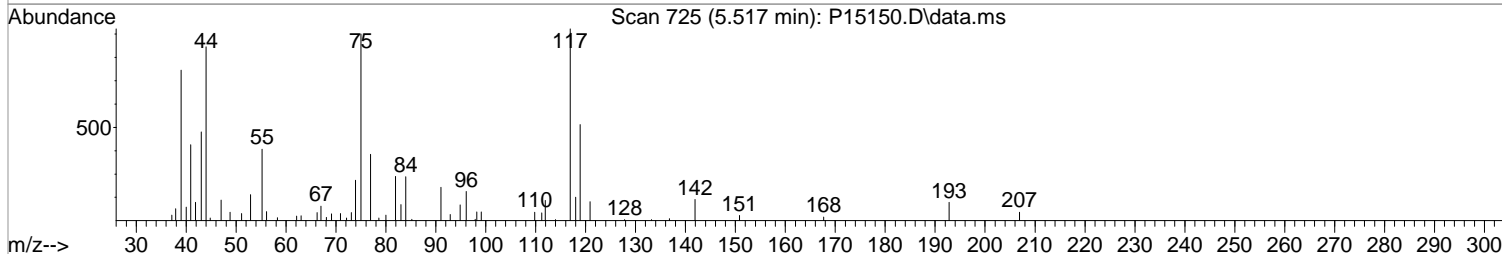
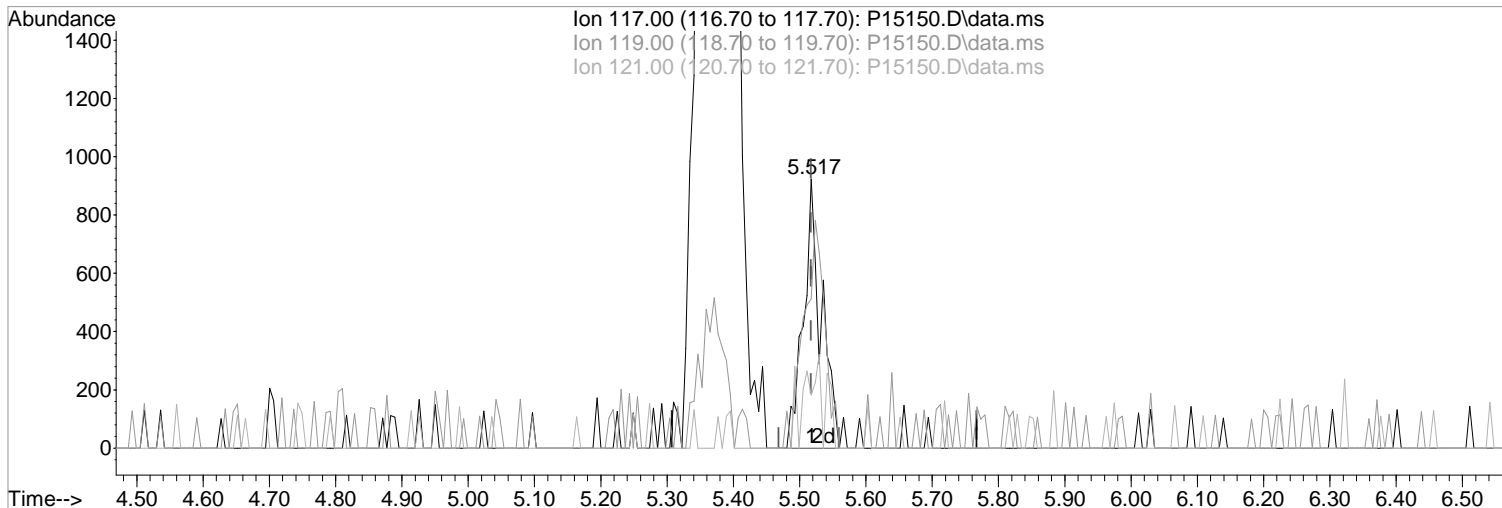
TIC: P15150.D\data.ms

| | | |
|--------------------------------|---------------------|--------|
| (41) 1,1,1-Trichloroethane (P) | Manual Integration: | |
| 5.231min (-0.012) 0.61 ppb m | After | |
| response 2844 | Poor integration. | |
| | 01/02/18 | |
| Ion | Exp% | Act% |
| 97.00 | 100 | 100 |
| 99.00 | 63.10 | 23.48# |
| 61.00 | 46.90 | 47.13 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(46) Carbontetrachloride (P)
5.517min (+0.000) 0.49 ppb m
response 1723

Manual Integration:
After
Poor integration.

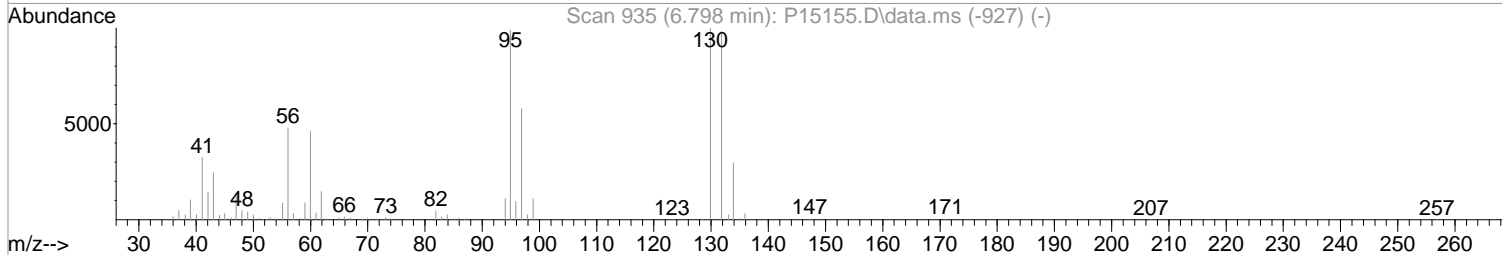
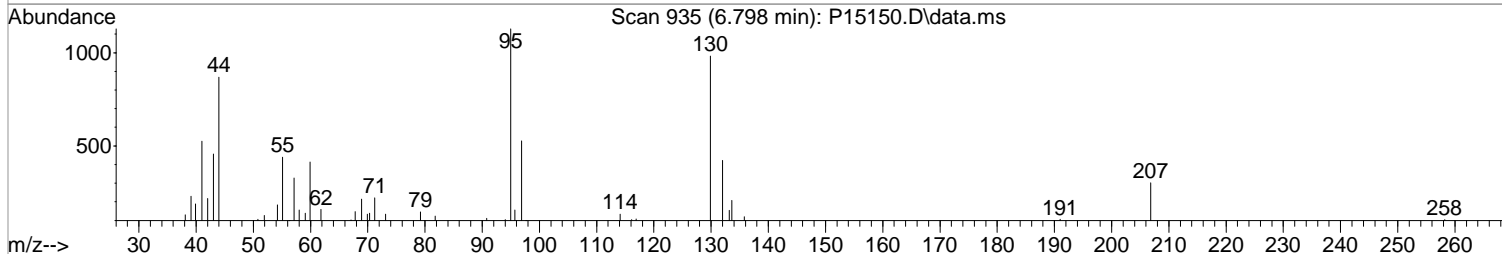
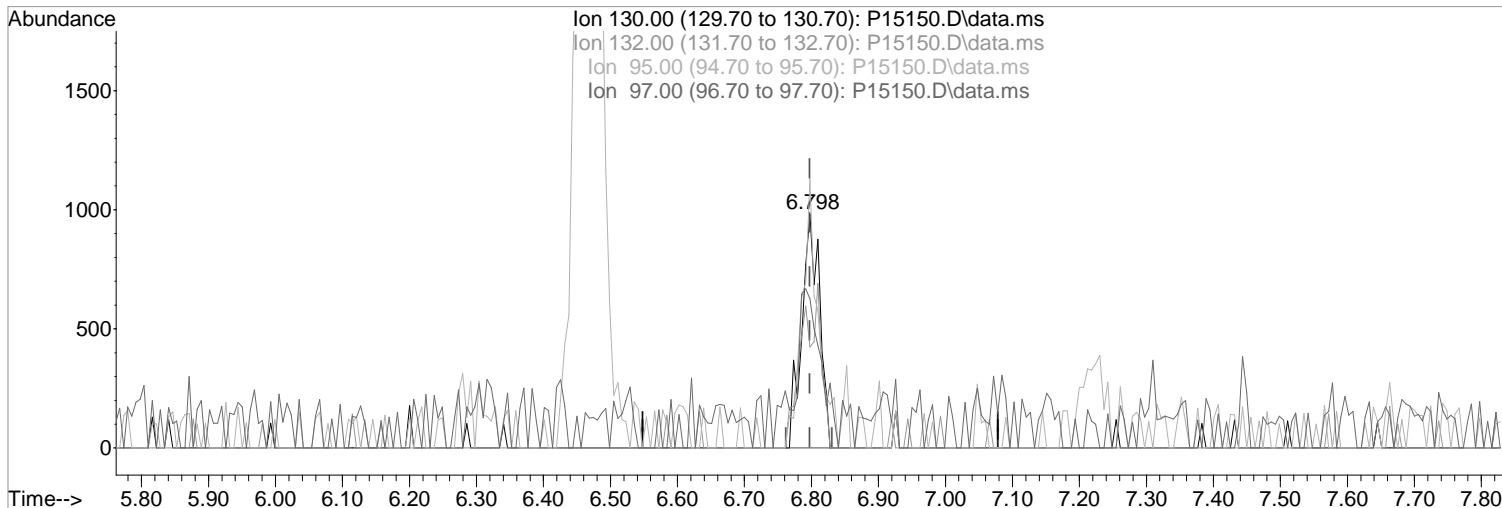
| Ion | Exp% | Act% |
|--------|-------|--------|
| 117.00 | 100 | 100 |
| 119.00 | 94.40 | 55.47# |
| 121.00 | 26.80 | 19.72 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(54) Trichloroethene (P)
6.798min (+0.000) 0.59 ppb m
response 1823

Manual Integration:
After
Poor integration.

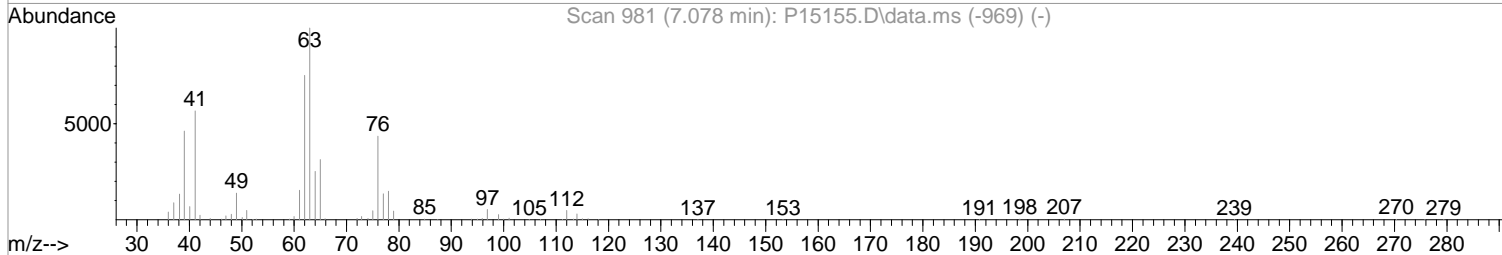
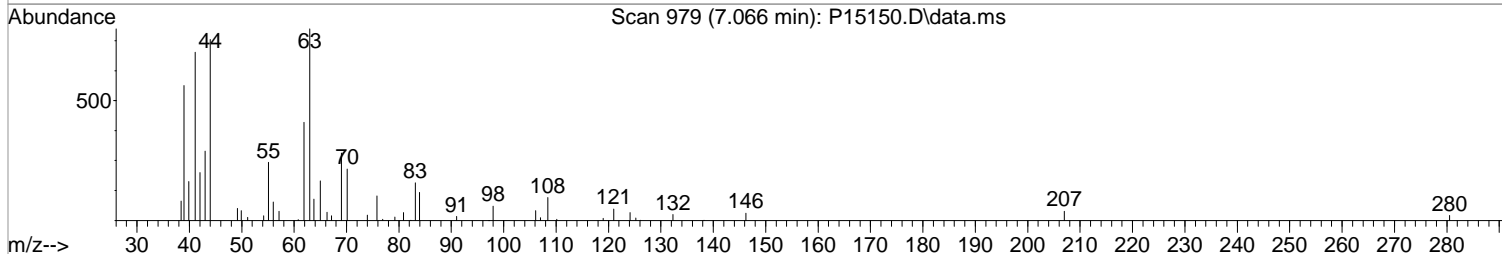
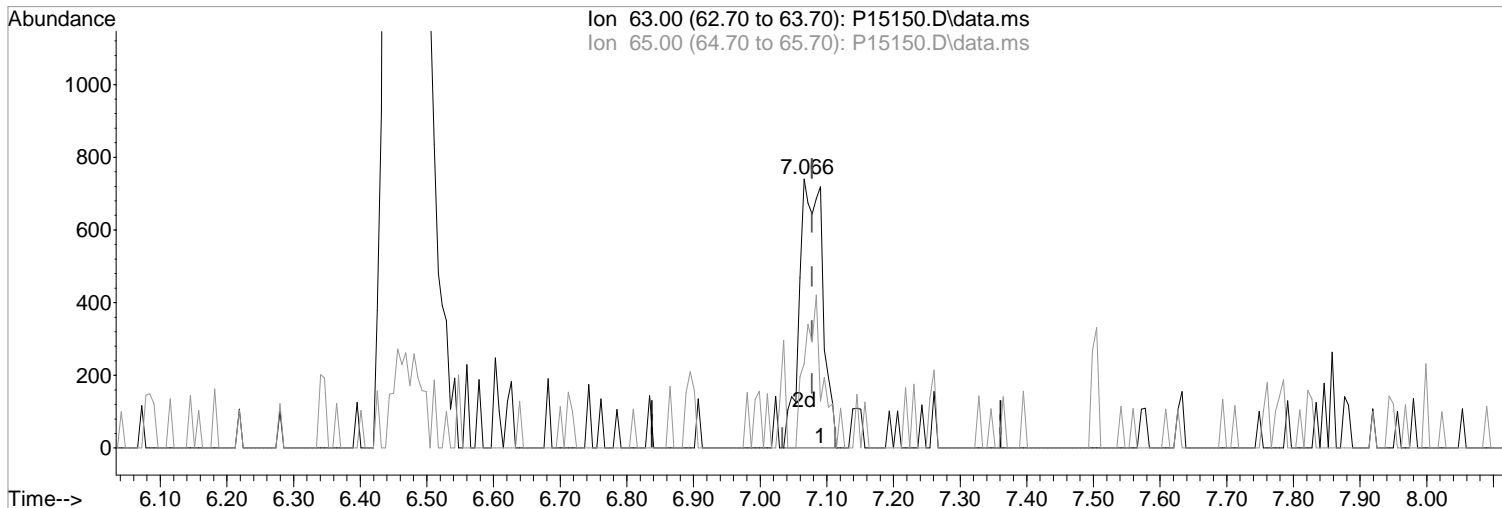
| Ion | Exp% | Act% |
|--------|-------|--------|
| 130.00 | 100 | 100 |
| 132.00 | 98.30 | 43.03# |
| 95.00 | 98.70 | 114.85 |
| 97.00 | 58.30 | 53.61 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(56) 1,2-Dicloropropane (P)
7.066min (-0.012) 0.55 ppb m
response 1790

Manual Integration:
After
Poor integration.

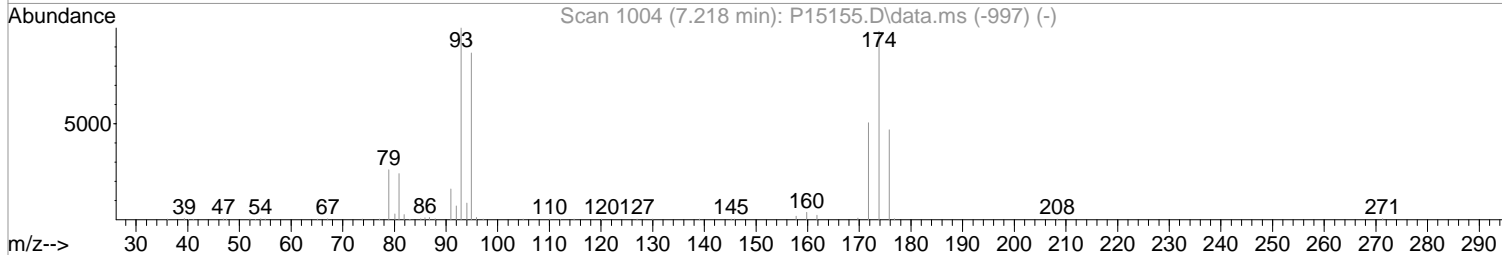
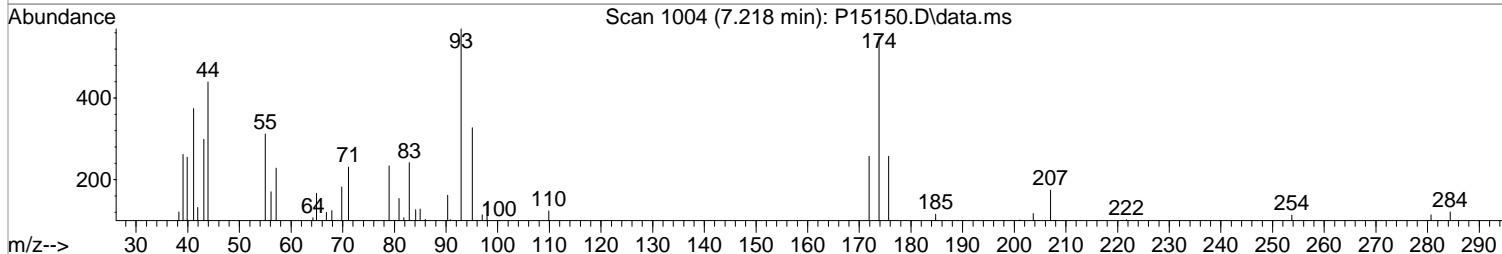
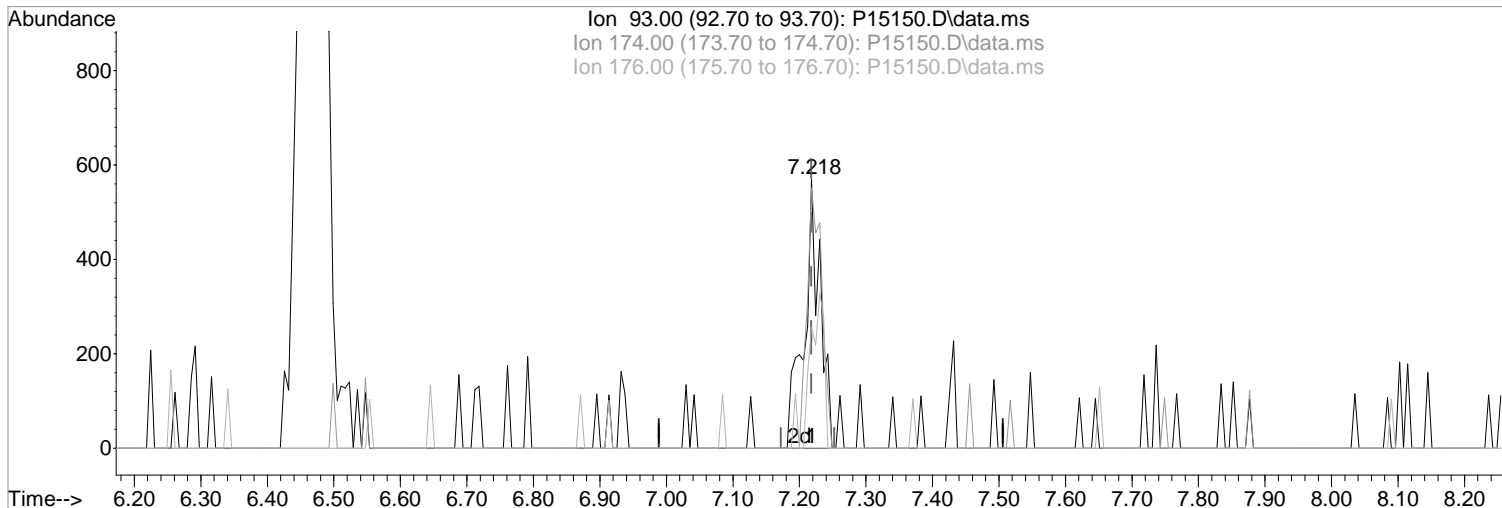
| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 31.70 | 31.35 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(57) Dibromomethane

7.218min (+0.000) 0.50 ppb m

response 969

| Ion | Exp% | Act% |
|--------|-------|-------|
| 93.00 | 100 | 100 |
| 174.00 | 98.30 | 96.67 |
| 176.00 | 46.90 | 45.09 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

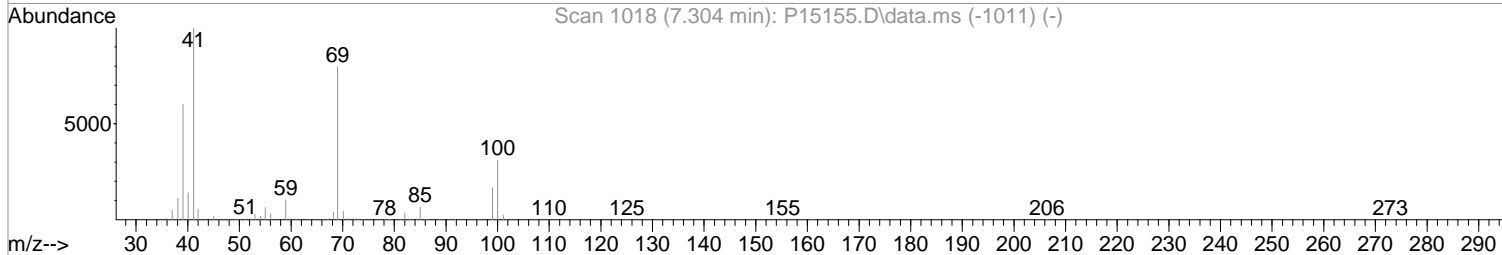
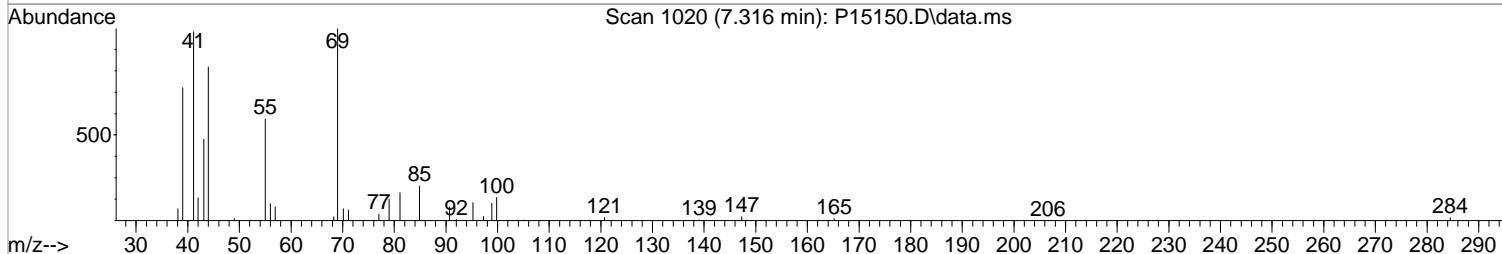
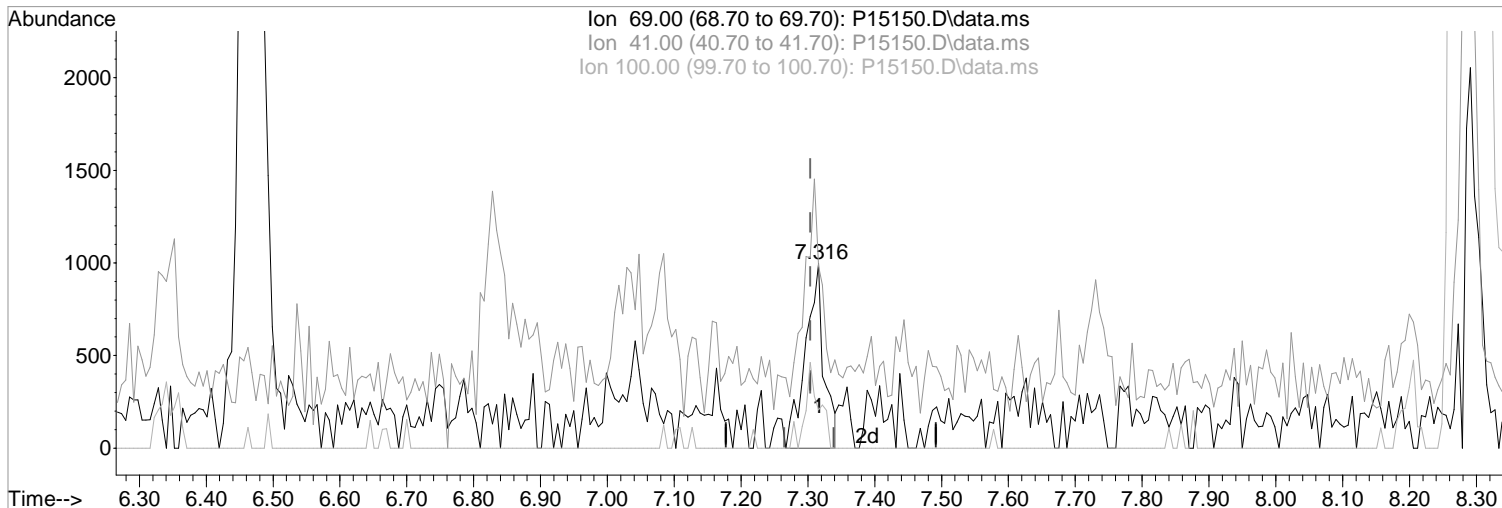
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15150.D\data.ms

(59) Methyl Methacrylate
7.316min (+0.012) 0.64 ppb m
response 1906

Manual Integration:
After
Poor integration.

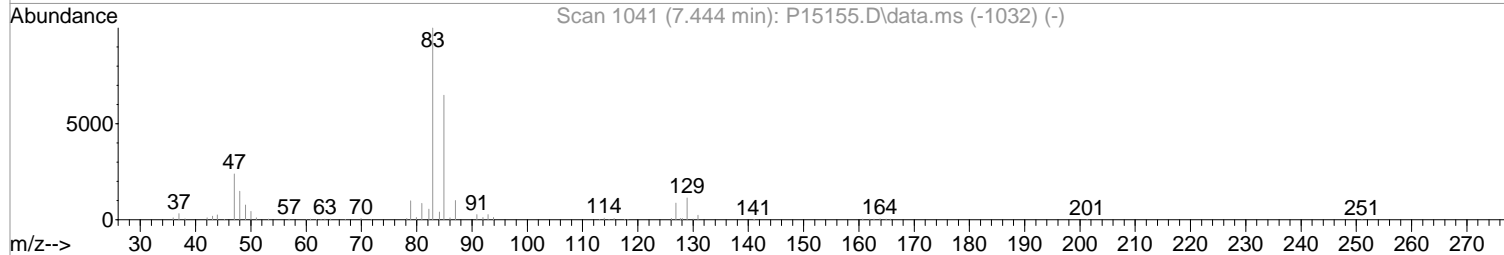
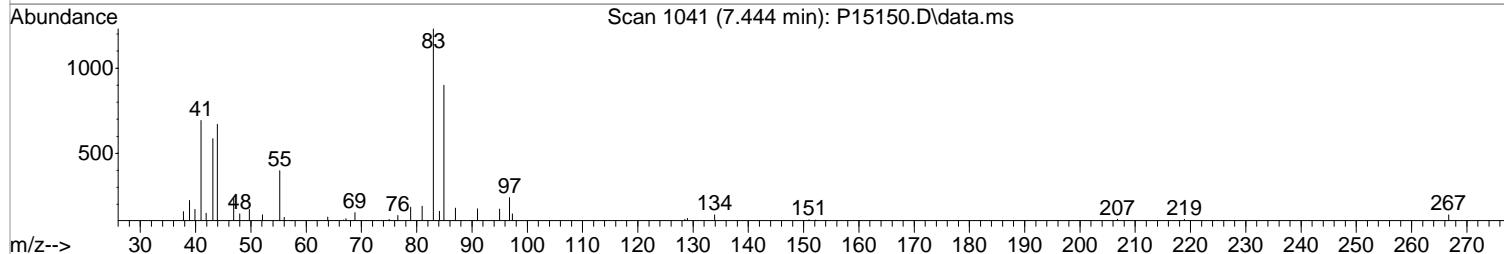
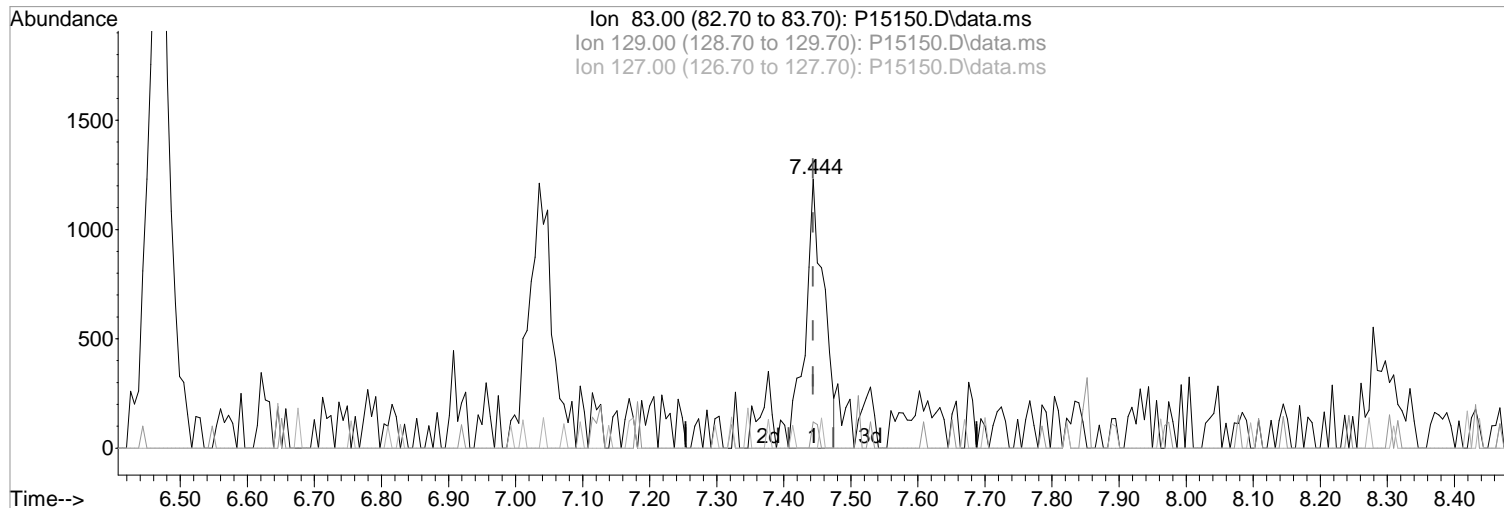
| Ion | Exp% | Act% |
|--------|--------|--------|
| 69.00 | 100 | 100 |
| 41.00 | 126.30 | 98.60# |
| 100.00 | 38.80 | 20.76 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15150.D\data.ms

(60) Bromodichloromethane (P)

7.444min (+0.000) 0.57 ppb m

response 2345

| Ion | Exp% | Act% |
|--------|-------|------|
| 83.00 | 100 | 100 |
| 129.00 | 11.20 | 9.67 |
| 127.00 | 9.20 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

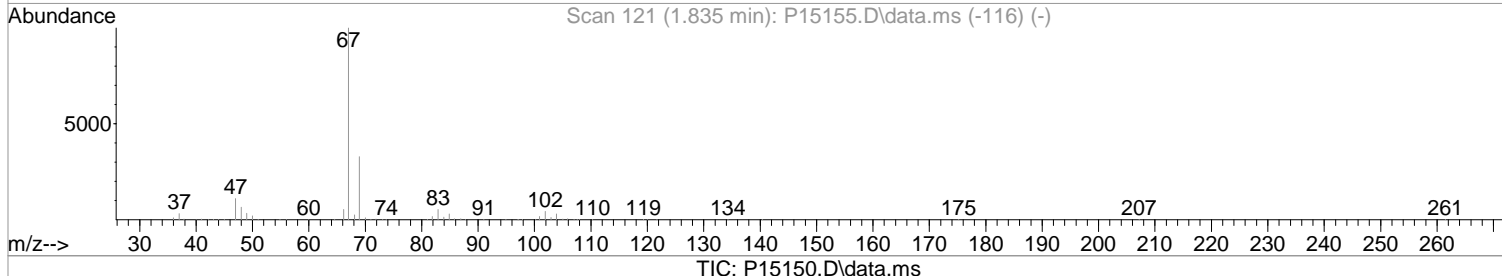
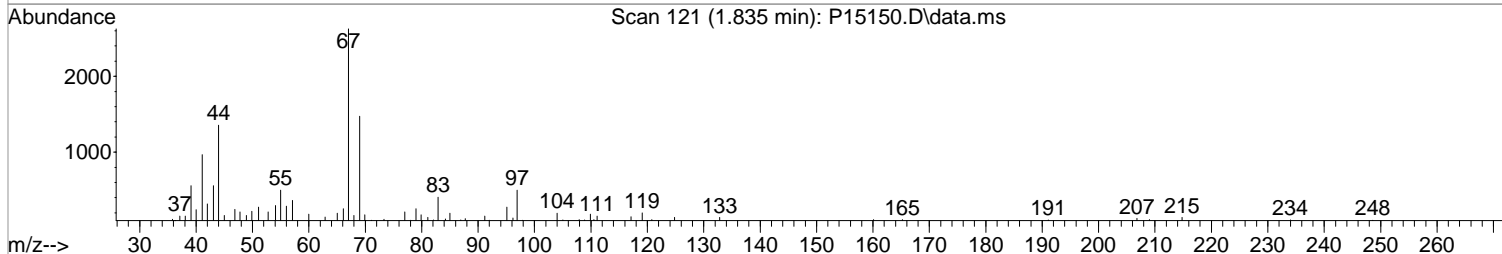
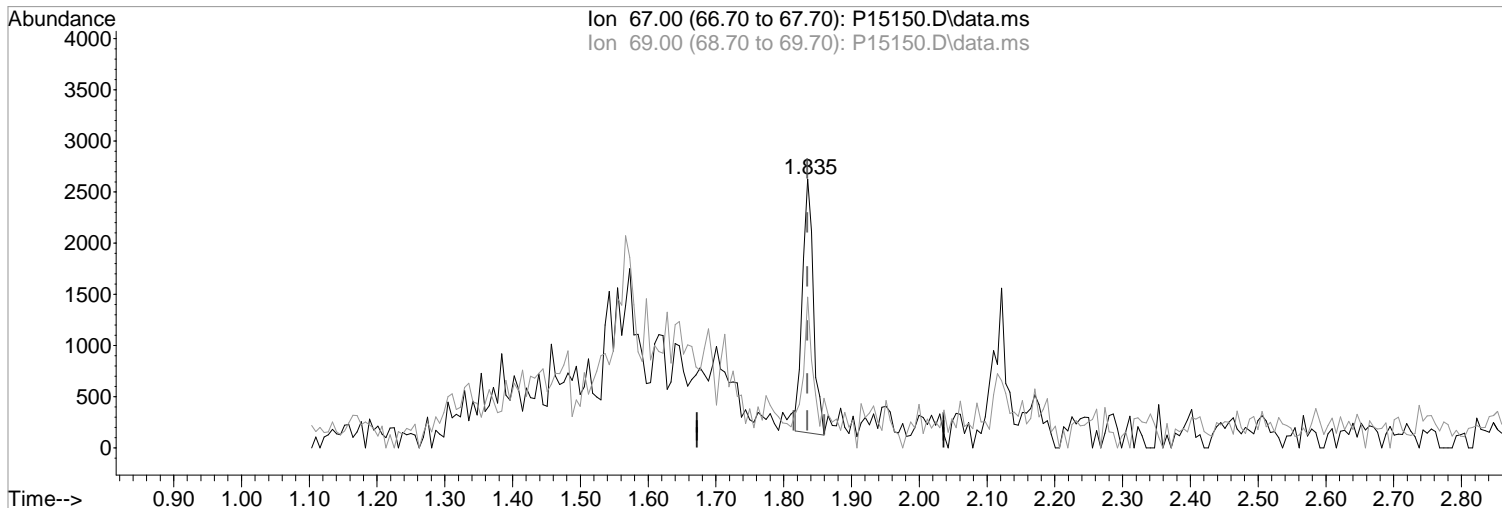
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(7) Freon 21
1.835min (+0.000) 0.52 ppb m
response 2803

Manual Integration:
After
Poor integration.

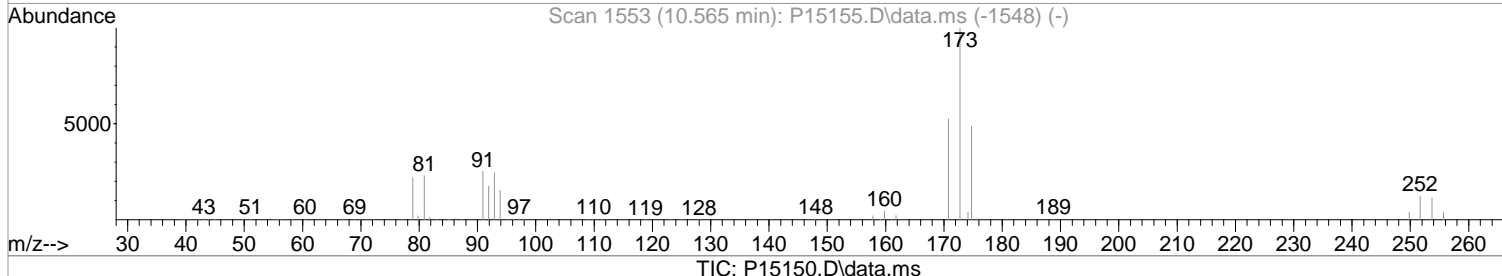
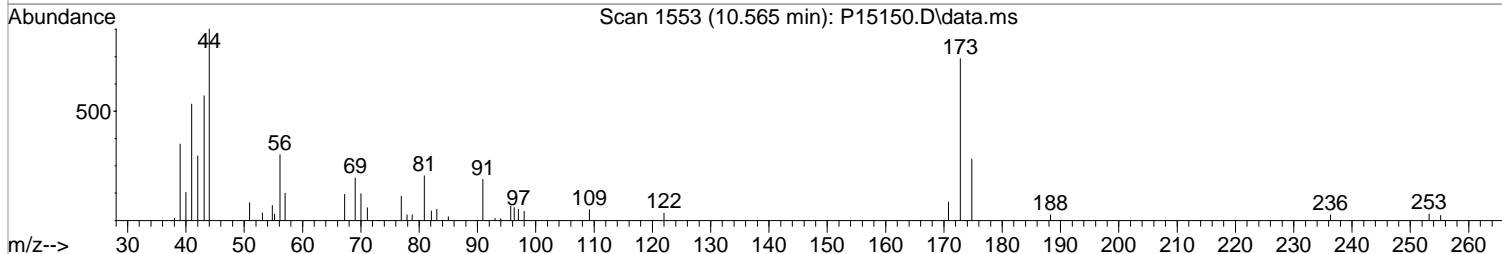
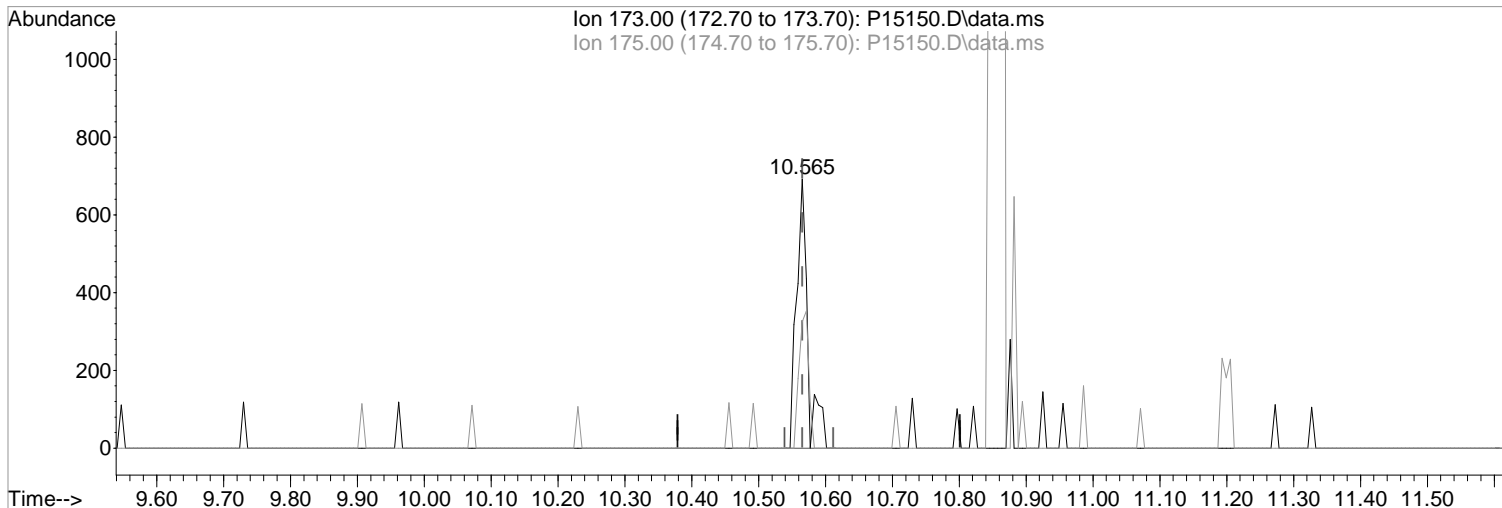
| Ion | Exp% | Act% |
|-------|-------|--------|
| 67.00 | 100 | 100 |
| 69.00 | 32.90 | 56.03# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15150.D
Acq On : 29 Dec 2017 5:22 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(87) Bromoform (P)

10.565min (+0.000) 0.48 ppb m
response 813

| Ion | Exp% | Act% |
|--------|-------|-------|
| 173.00 | 100 | 100 |
| 175.00 | 48.70 | 46.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15150.D
 Acq On : 29 Dec 2017 5:22 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|------------|---------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 282050 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 464403 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 412009 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.833 | 152 | 195900 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 138045 | 50.06 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 100.12% | | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 187998 | 49.75 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 99.50% | | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 605014 | 49.14 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 98.28% | | | |
| 70) SURR2,BFB | 10.858 | 95 | 229156 | 48.11 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 96.22% | | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 1810 | 0.52 | ppb | | 89 |
| 3) Chloromethane | 1.311 | 50 | 2458 | 0.57 | ppb | | 83 |
| 4) Vinyl Chloride | 1.384 | 62 | 2220m | 0.53 | ppb | | |
| 5) Bromomethane | 1.616 | 94 | 2064 | 0.65 | ppb | | 88 |
| 6) Chloroethane | 1.683 | 64 | 1545 | 0.59 | ppb | # | 46 |
| 7) Freon 21 | 1.835 | 67 | 2803m | 0.52 | ppb | | |
| 8) Trichlorofluoromethane | 1.884 | 101 | 2088 | 0.52 | ppb | | 93 |
| 9) Diethyl Ether | 2.122 | 59 | 1432 | 0.51 | ppb | # | 67 |
| 10) Freon 123a | 2.122 | 67 | 1826m | 0.54 | ppb | | |
| 11) Freon 123 | 2.170 | 83 | 2327 | 0.59 | ppb | | 87 |
| 12) Acrolein | 2.219 | 56 | 2121 | 2.54 | ppb | | 100 |
| 13) 1,1-Dicethene | 2.305 | 96 | 1971 | 0.68 | ppb | # | 84 |
| 14) Freon 113 | 2.305 | 101 | 1528 | 0.56 | ppb | # | 54 |
| 16) 2-Propanol | 2.481 | 45 | 3548 | 10.75 | ppb | # | 43 |
| 18) Carbon Disulfide | 2.494 | 76 | 4735 | 0.56 | ppb | | 97 |
| 20) Allyl Chloride | 2.634 | 76 | 939 | 0.61 | ppb | # | 92 |
| 21) Methyl Acetate | 2.658 | 43 | 1844 | 0.60 | ppb | | 88 |
| 22) Methylene Chloride | 2.750 | 84 | 1602 | 0.52 | ppb | | 95 |
| 23) TBA | 2.871 | 59 | 5850 | 10.29 | ppb | | 67 |
| 24) Acrylonitrile | 3.006 | 53 | 4397 | 2.66 | ppb | | 89 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 5166 | 0.50 | ppb | # | 59 |
| 26) trans-1,2-Dichloroethene | 3.048 | 96 | 1580 | 0.52 | ppb | | 97 |
| 28) 1,1-Dicethane | 3.536 | 63 | 2884 | 0.53 | ppb | | 83 |
| 29) Vinyl Acetate | 3.621 | 86 | 647 | 0.73 | ppb | # | 1 |
| 30) DIPE | 3.664 | 45 | 5558 | 0.54 | ppb | | 94 |
| 31) 2-Chloro-1,3-Butadiene | 3.670 | 53 | 3269 | 0.62 | ppb | | 78 |
| 32) ETBE | 4.176 | 59 | 5602 | 0.54 | ppb | | 87 |
| 33) 2,2-Dichloropropane | 4.359 | 77 | 2888m | 0.60 | ppb | | |
| 34) cis-1,2-Dichloroethene | 4.377 | 96 | 1739m | 0.49 | ppb | | |
| 36) Propionitrile | 4.505 | 54 | 1898 | 2.71 | ppb | # | 18 |
| 37) Bromochloromethane | 4.749 | 130 | 1011m | 0.52 | ppb | | |
| 38) Methacrylonitrile | 4.767 | 67 | 1026 | 0.56 | ppb | | 98 |
| 40) Chloroform | 4.950 | 83 | 2984m | 0.51 | ppb | | |
| 41) 1,1,1-Trichloroethane | 5.231 | 97 | 2844m | 0.61 | ppb | | |
| 42) TAME | 6.090 | 73 | 5239 | 0.51 | ppb | | 98 |
| 46) Carbontetrachloride | 5.517 | 117 | 1723m | 0.49 | ppb | | |
| 47) 1,1-Dichloropropene | 5.517 | 75 | 2124 | 0.52 | ppb | | 73 |
| 49) Benzene | 5.847 | 78 | 6936 | 0.57 | ppb | | 88 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 2410 | 0.54 | ppb | | 78 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15150.D
 Acq On : 29 Dec 2017 5:22 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 51) Iso-Butyl Alcohol | 5.853 | 43 | 2000 | 8.13 | ppb | 99 |
| 52) n-Heptane | 6.322 | 43 | 2697 | 0.64 | ppb # | 64 |
| 53) 1-Butanol | 6.834 | 56 | 3870 | 23.77 | ppb | 75 |
| 54) Trichloroethene | 6.798 | 130 | 1823m | 0.59 | ppb | |
| 55) Methylcyclohexane | 7.035 | 55 | 2009 | 0.50 | ppb # | 78 |
| 56) 1,2-Diclpropane | 7.066 | 63 | 1790m | 0.55 | ppb | |
| 57) Dibromomethane | 7.218 | 93 | 969m | 0.50 | ppb | |
| 58) 1,4-Dioxane | 7.279 | 88 | 665 | 10.41 | ppb # | 51 |
| 59) Methyl Methacrylate | 7.316 | 69 | 1906m | 0.64 | ppb | |
| 60) Bromodichloromethane | 7.444 | 83 | 2345m | 0.57 | ppb | |
| 61) 2-Nitropropane | 7.730 | 41 | 1314 | 1.05 | ppb # | 74 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 2789 | 0.54 | ppb # | 77 |
| 66) Toluene | 8.364 | 91 | 7308 | 0.55 | ppb | 81 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 2247 | 0.47 | ppb | 83 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 1834 | 0.38 | ppb | 96 |
| 69) 1,1,2-Trichloroethane | 8.815 | 97 | 1894 | 0.63 | ppb | 83 |
| 72) Tetrachloroethene | 8.968 | 164 | 1266 | 0.56 | ppb # | 36 |
| 74) 1,3-Dichloropropene | 8.986 | 76 | 2746 | 0.52 | ppb # | 68 |
| 75) Dibromochloromethane | 9.212 | 129 | 1244 | 0.45 | ppb | 93 |
| 76) N-Butyl Acetate | 9.279 | 43 | 2105 | 0.37 | ppb | 91 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 1446 | 0.49 | ppb | 94 |
| 78) Chlorobenzene | 9.809 | 112 | 3984 | 0.49 | ppb | 88 |
| 79) 3-CBTF | 9.827 | 180 | 2614 | 0.61 | ppb # | 80 |
| 80) 4-CBTF | 9.882 | 180 | 2335 | 0.59 | ppb | 92 |
| 81) 1,1,1,2-Tetrachloroethane | 9.895 | 131 | 1547 | 0.54 | ppb # | 77 |
| 82) Ethylbenzene | 9.931 | 106 | 2253 | 0.51 | ppb # | 63 |
| 83) (m+p)Xylene | 10.041 | 106 | 5183 | 0.96 | ppb # | 78 |
| 84) o-Xylene | 10.400 | 106 | 2802 | 0.52 | ppb # | 69 |
| 85) Styrene | 10.413 | 104 | 4502 | 0.50 | ppb | 88 |
| 87) Bromoform | 10.565 | 173 | 813m | 0.48 | ppb | |
| 88) 2-CBTF | 10.644 | 180 | 2277 | 0.59 | ppb | 91 |
| 89) Isopropylbenzene | 10.736 | 105 | 7002 | 0.54 | ppb | 93 |
| 90) Cyclohexanone | 10.797 | 55 | 9162 | 9.36 | ppb | 88 |
| 91) trans-1,4-Dichloro-2-B... | 11.041 | 53 | 754 | 0.74 | ppb | 90 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 2299 | 0.59 | ppb # | 77 |
| 93) Bromobenzene | 10.986 | 156 | 1549 | 0.49 | ppb | 95 |
| 94) 1,2,3-Trichloropropene | 11.022 | 110 | 607 | 0.48 | ppb # | 70 |
| 95) n-Propylbenzene | 11.089 | 91 | 7874 | 0.53 | ppb | 86 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 5026 | 0.54 | ppb | 90 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 5127 | 0.52 | ppb # | 94 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 5876 | 0.55 | ppb | 91 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 5889 | 0.55 | ppb | 97 |
| 100) tert-Butylbenzene | 11.516 | 119 | 5013 | 0.54 | ppb | 87 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 5745 | 0.53 | ppb | 76 |
| 102) 3,4-DCBTF | 11.620 | 214 | 1903 | 0.61 | ppb # | 85 |
| 103) sec-Butylbenzene | 11.699 | 105 | 7365 | 0.54 | ppb | 98 |
| 104) p-Isopropyltoluene | 11.821 | 119 | 6240 | 0.54 | ppb | 89 |
| 105) 1,3-Dclbenz | 11.784 | 146 | 3286 | 0.55 | ppb | 85 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 3509 | 0.56 | ppb | 96 |
| 107) 2,4-DCBTF | 11.906 | 214 | 1816 | 0.63 | ppb # | 65 |
| 108) 2,5-DCBTF | 11.949 | 214 | 1675 | 0.55 | ppb # | 87 |
| 109) n-Butylbenzene | 12.156 | 91 | 5699 | 0.53 | ppb # | 78 |
| 110) 1,2-Dclbenz | 12.162 | 146 | 2831 | 0.47 | ppb | 86 |
| 111) 1,2-Dibromo-3-chloropr... | 12.790 | 157 | 383m | 0.39 | ppb | |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 9592 | 1.63 | ppb | 94 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 2514 | 0.54 | ppb # | 88 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15150.D
 Acq On : 29 Dec 2017 5:22 pm
 Operator : K.Ruest
 Sample : 0.5ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

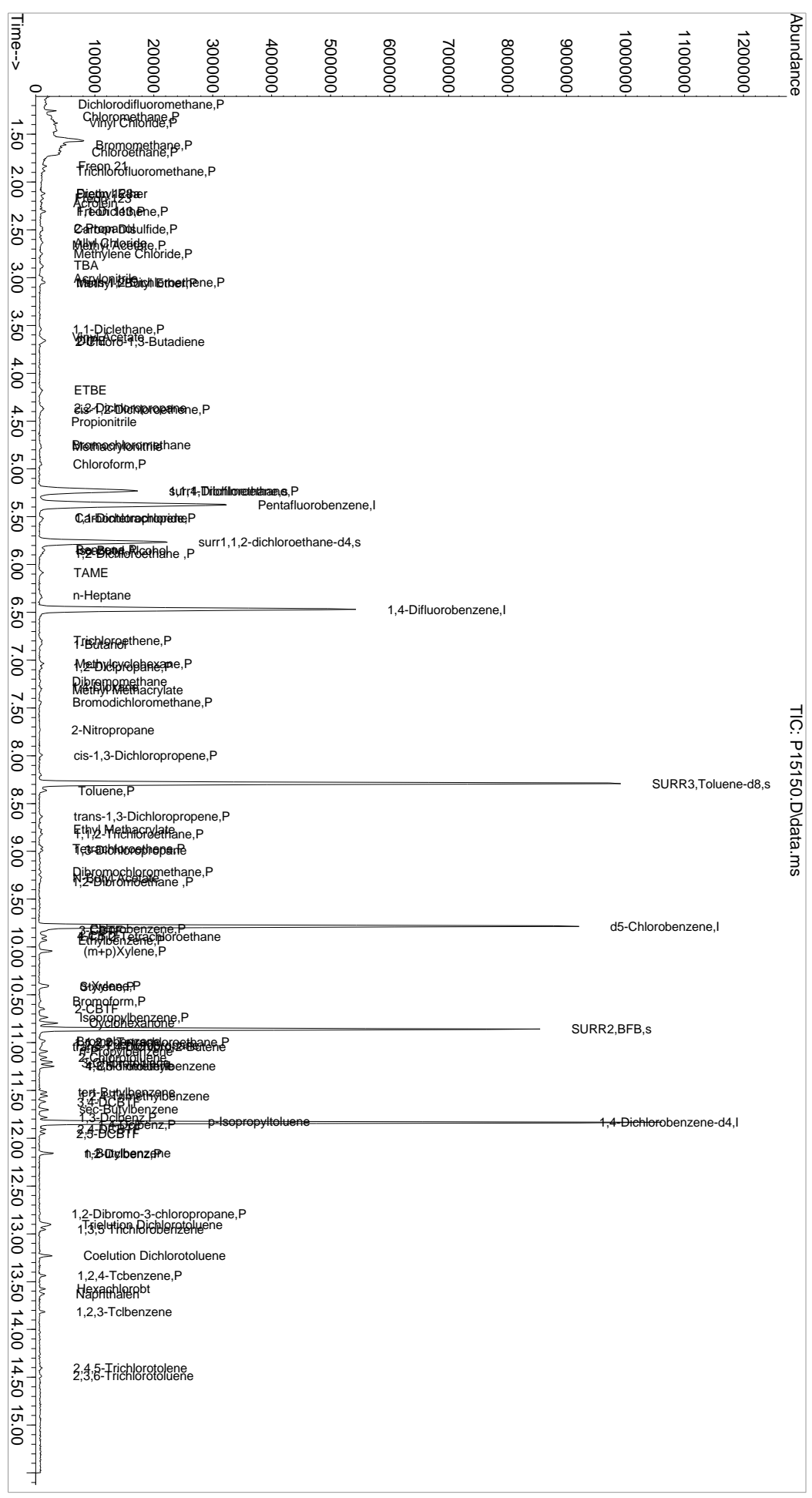
Quant Time: Jan 02 10:20:59 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 *N* 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|------|-------|----------|
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 5958 | 0.95 | ppb # | 87 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 2068 | 0.48 | ppb | 82 |
| 116) Hexachlorobt | 13.577 | 225 | 1216 | 0.60 | ppb # | 86 |
| 117) Naphthalen | 13.625 | 128 | 4879 | 0.41 | ppb | 95 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 1962 | 0.46 | ppb # | 74 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 747 | 0.29 | ppb # | 82 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 561 | 0.24 | ppb # | 73 |

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

Data Path : I:\ACQDATA\msvoa12\Data\122917\
 Data File : P15150.D
 Acq On : 29 Dec 2017 5:22 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Disc : 8260 WATER ICAL
 PALS Vial : 2 Sample Multiplier: 1
 Inst : MSVOA-12

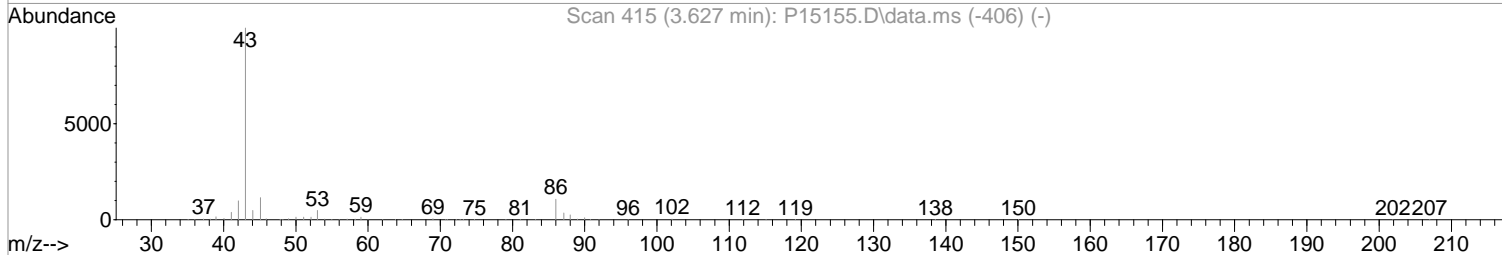
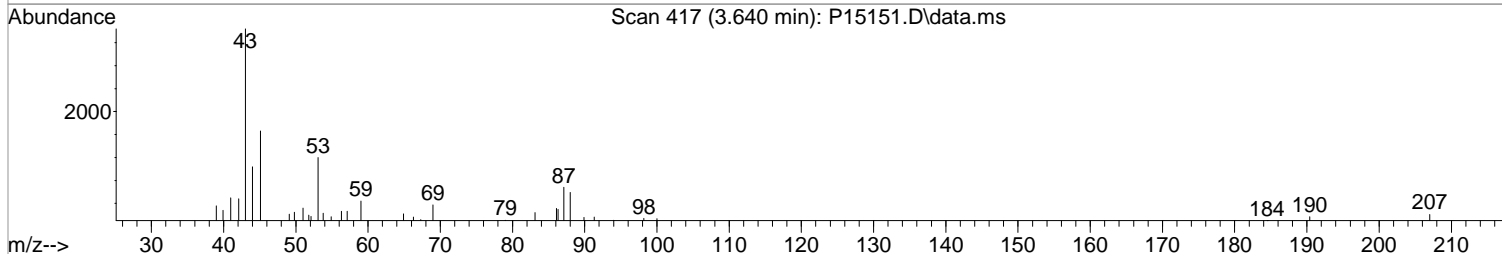
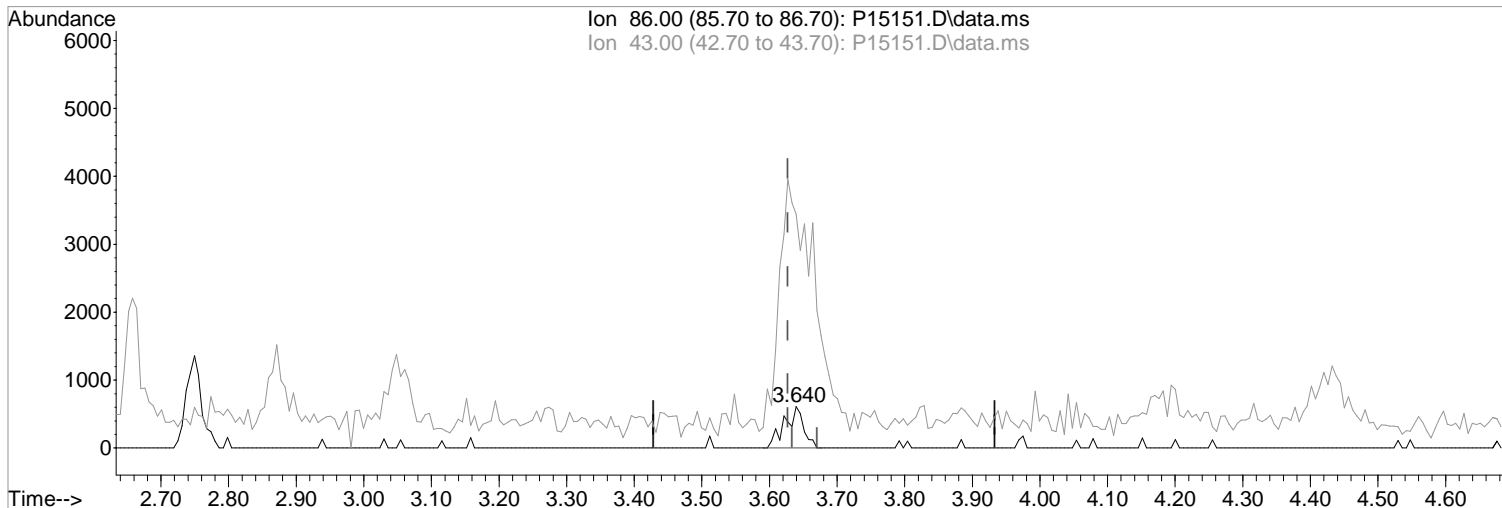
Quant Time: Jan 02 10:20:59 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(29) Vinyl Acetate
3.640min (+0.012) 1.32 ppb m
response 1198

Manual Integration:

After

Split Peak

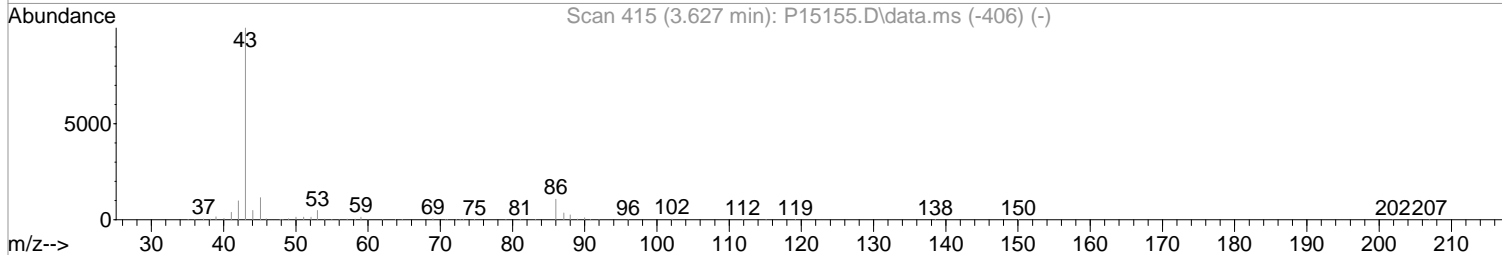
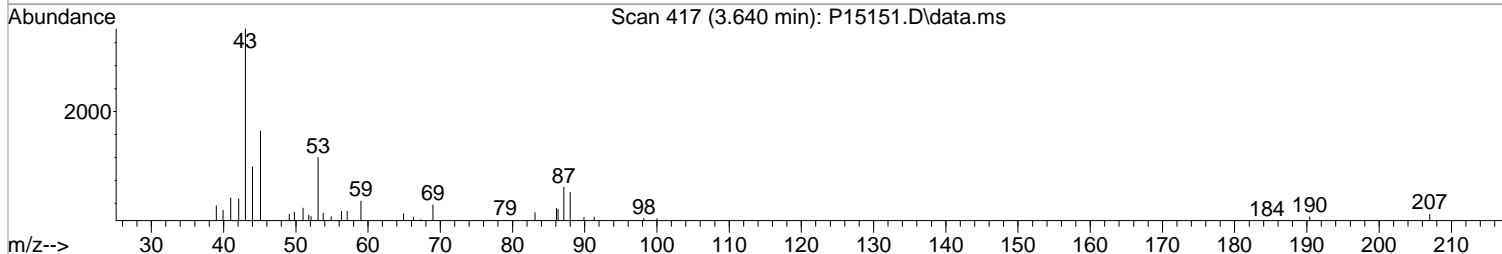
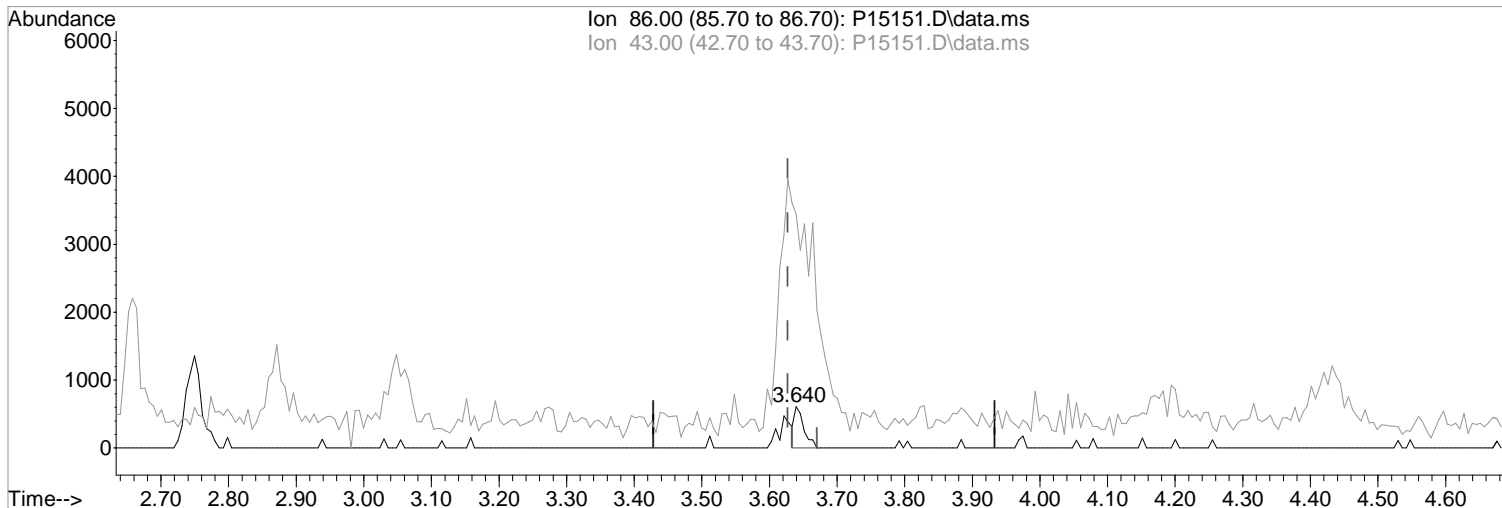
01/02/18

| Ion | Exp% | Act% |
|-------|--------|----------|
| 86.00 | 100 | 100 |
| 43.00 | 952.00 | 1096.50# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(29) Vinyl Acetate
3.640min (+0.012) 0.65 ppb
response 586

Manual Integration:
Before

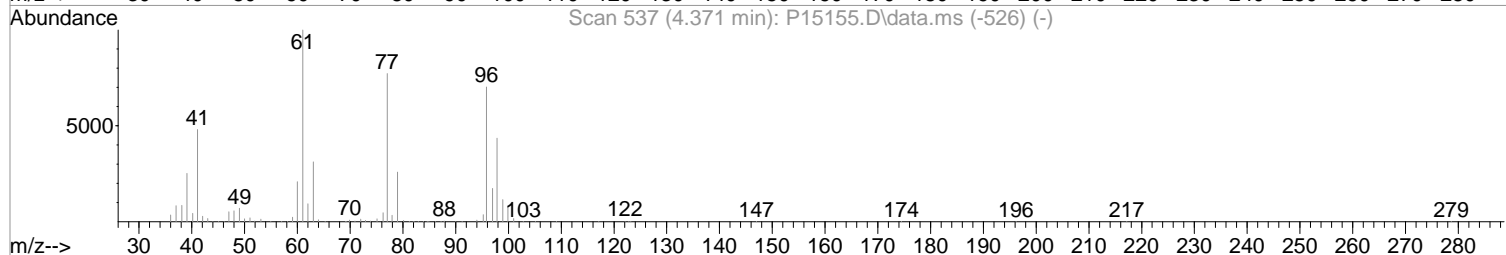
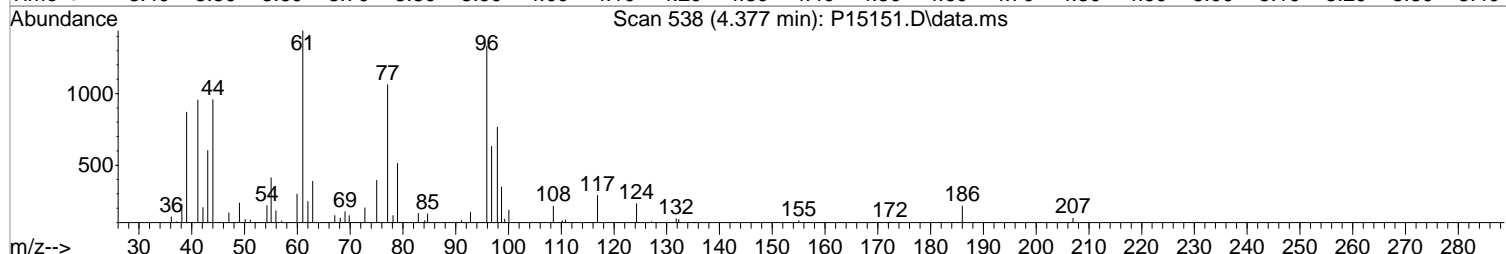
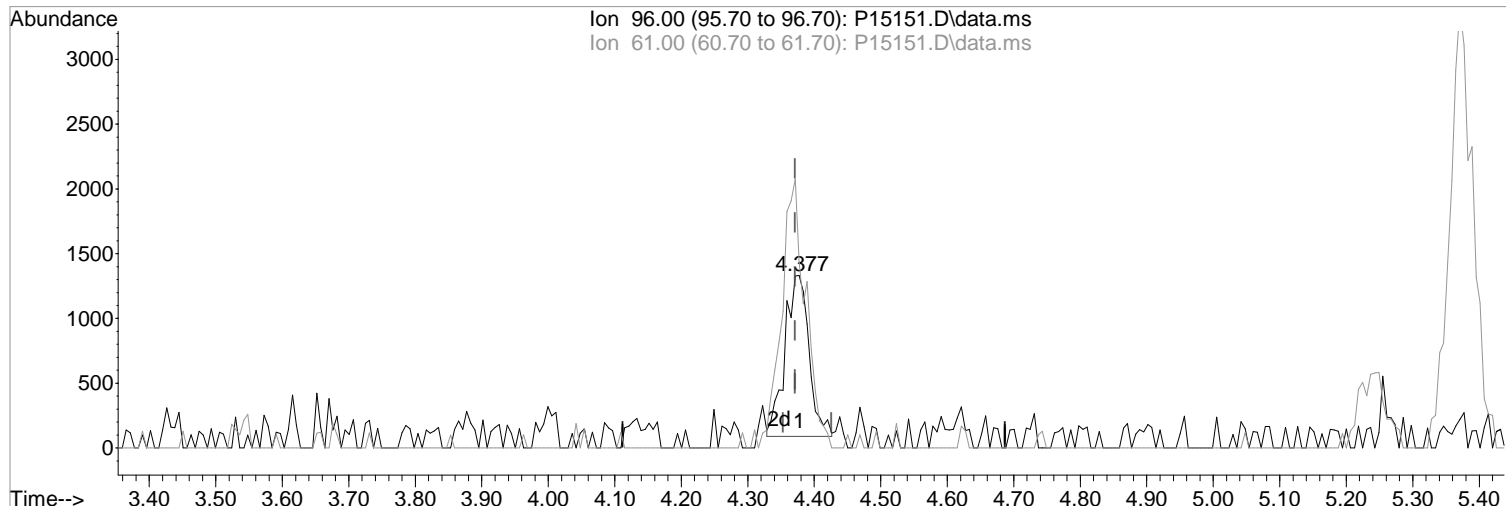
| Ion | Exp% | Act% |
|-------|--------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 952.00 | 565.35# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.86 ppb m

response 3133

| Ion | Exp% | Act% |
|-------|--------|---------|
| 96.00 | 100 | 100 |
| 61.00 | 142.80 | 107.95# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

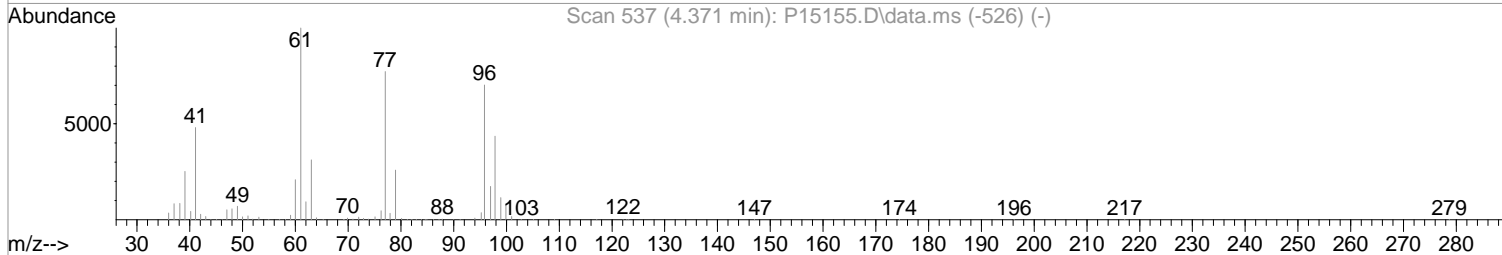
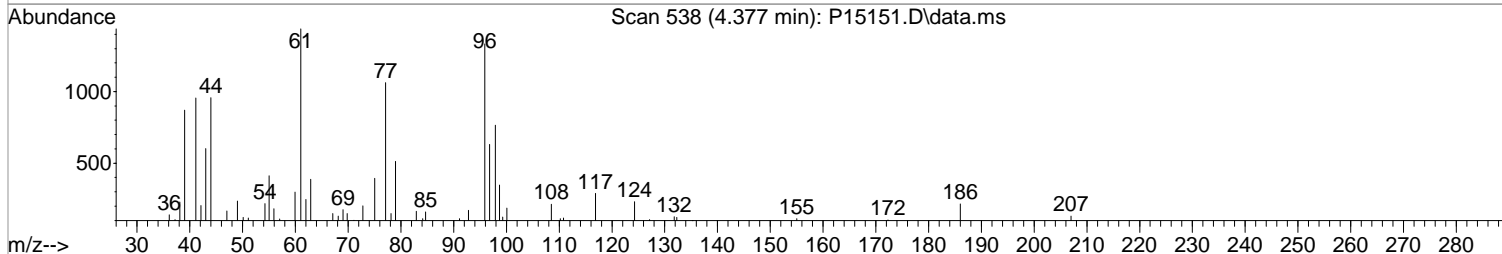
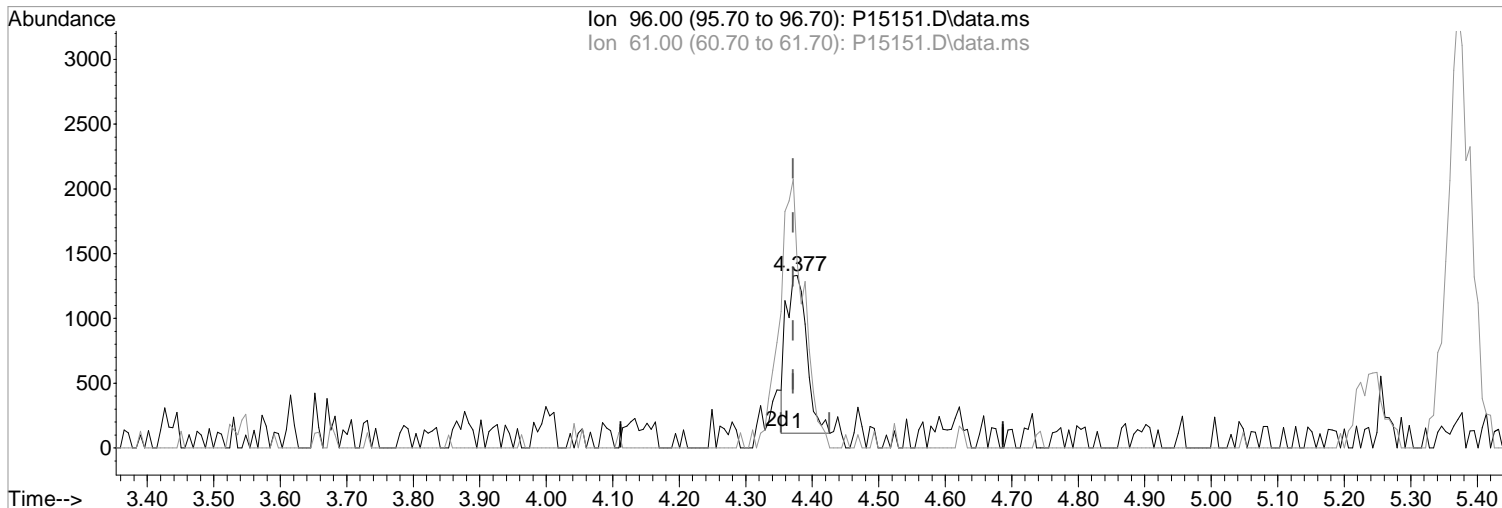
Split Peak

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.72 ppb

response 2622

Ion Exp% Act%

96.00 100 100

61.00 142.80 107.95#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

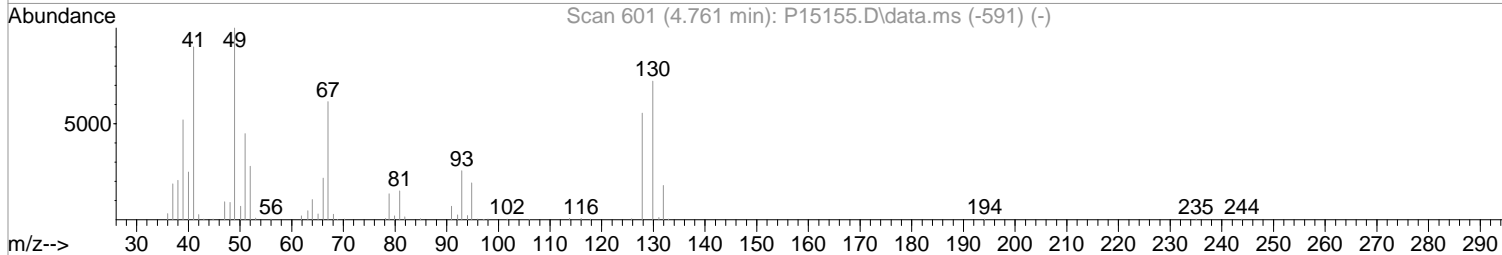
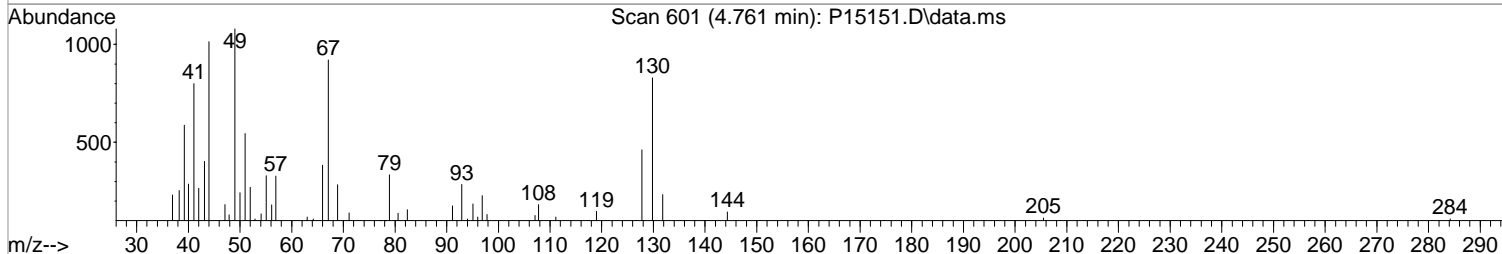
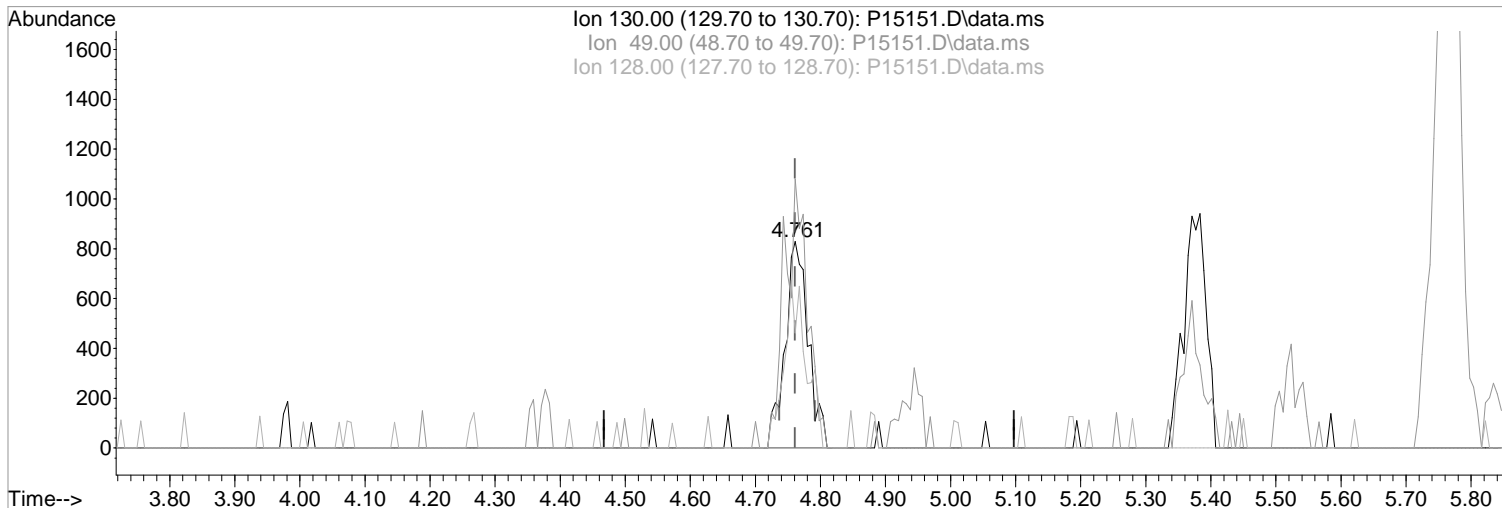
Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(37) Bromochloromethane
4.761min (+0.000) 1.02 ppb m
response 2044

Manual Integration:

After
Split Peak

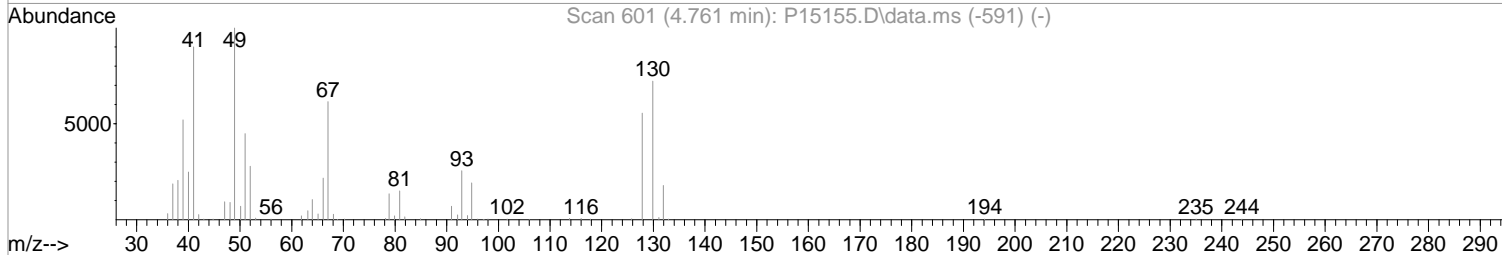
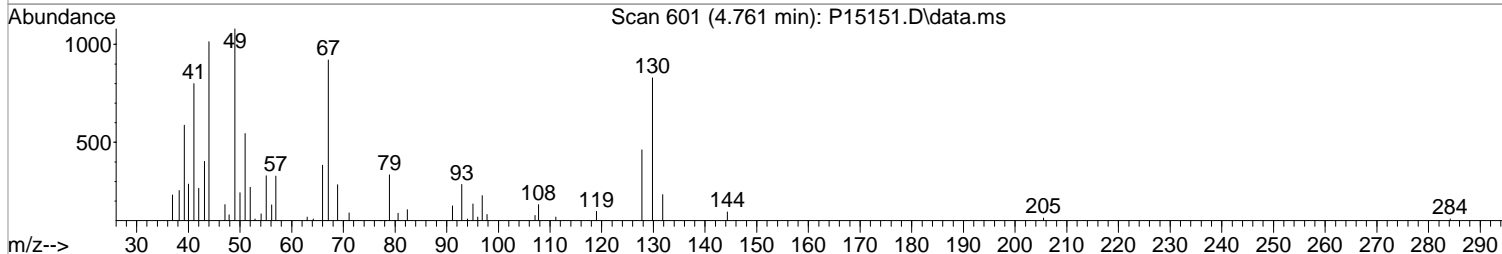
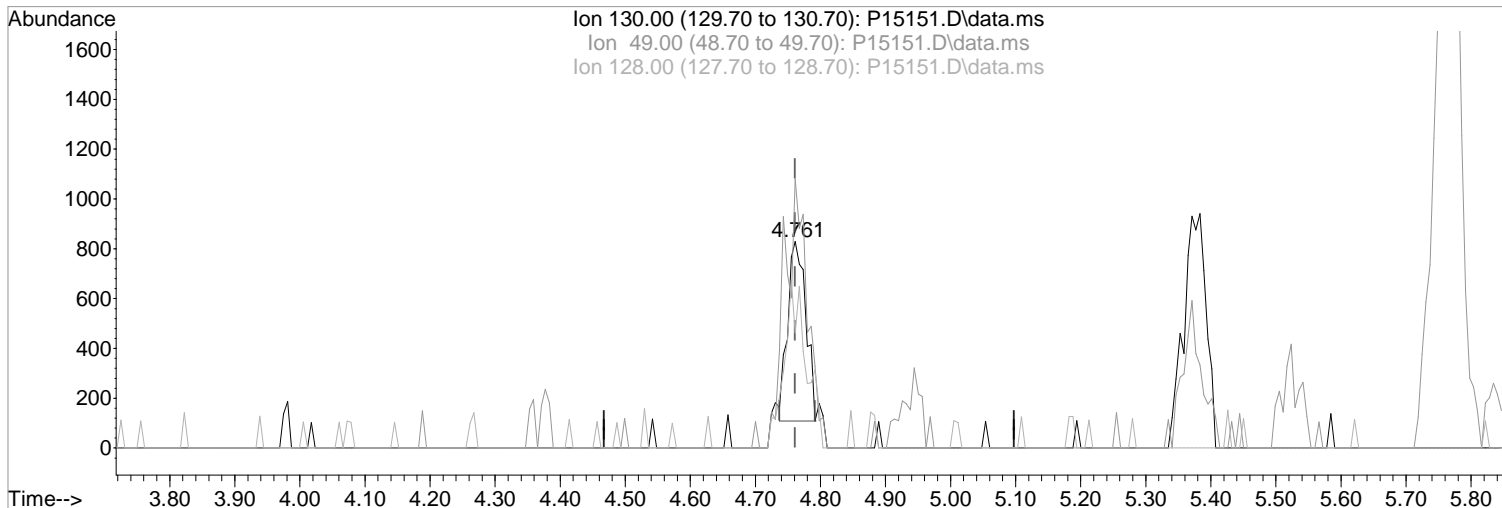
| Ion | Exp% | Act% |
|--------|--------|--------|
| 130.00 | 100 | 100 |
| 49.00 | 139.00 | 130.28 |
| 128.00 | 77.10 | 55.73# |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(37) Bromochloromethane

4.761min (+0.000) 0.70 ppb

response 1394

Ion Exp% Act%

130.00 100 100

49.00 139.00 130.28

128.00 77.10 55.73#

0.00 0.00 0.00

Manual Integration:

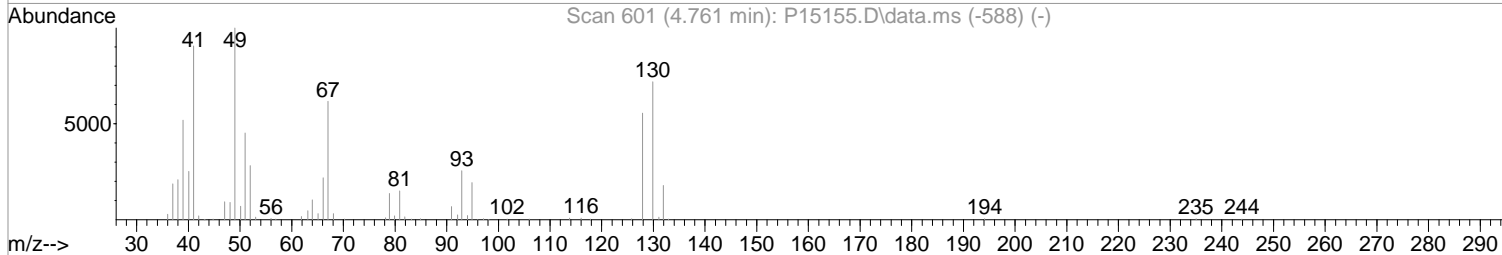
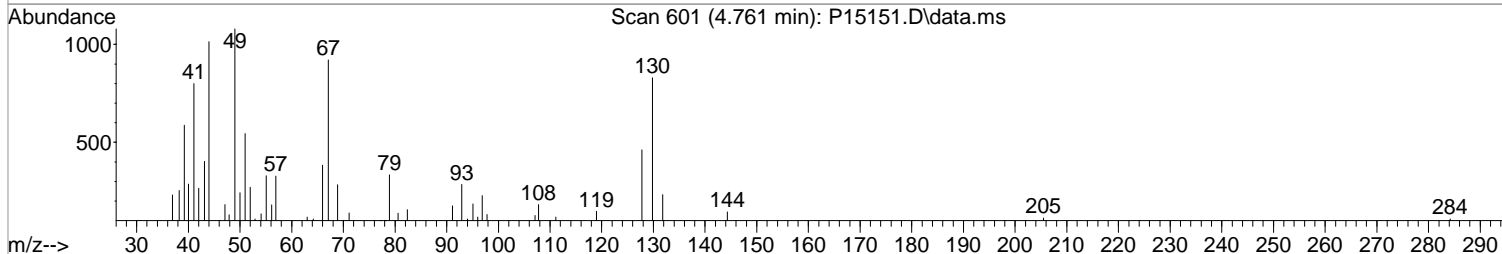
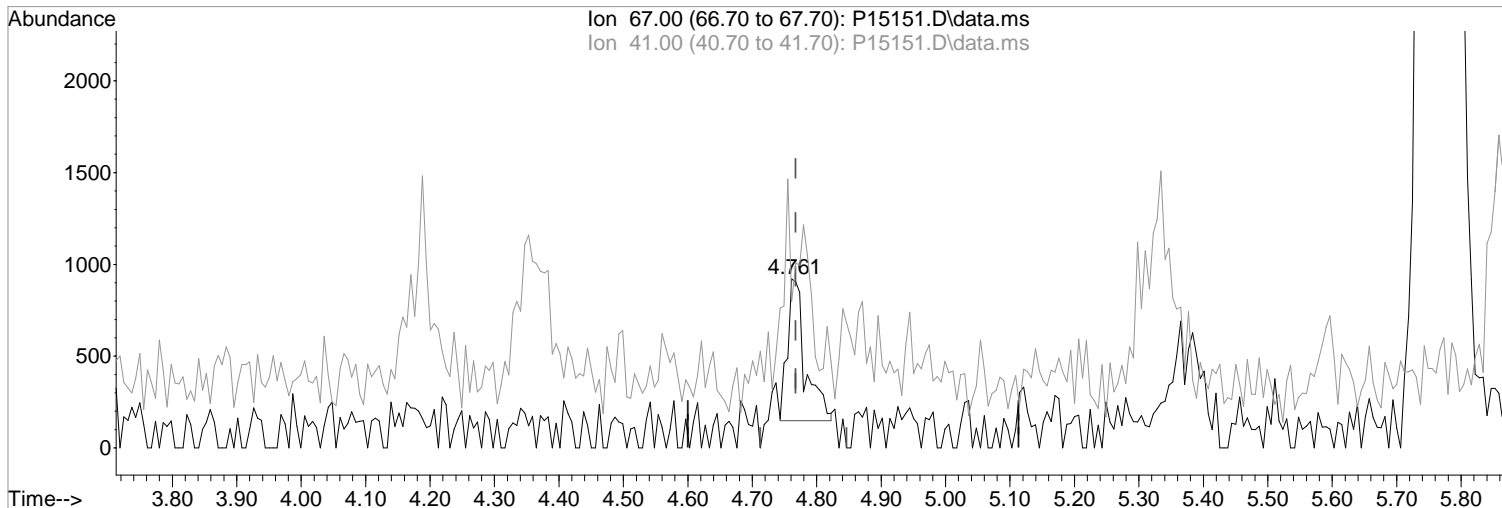
Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(38) Methacrylonitrile
4.761min (-0.006) 0.80 ppb m
response 1485

Manual Integration:
After
Poor integration.

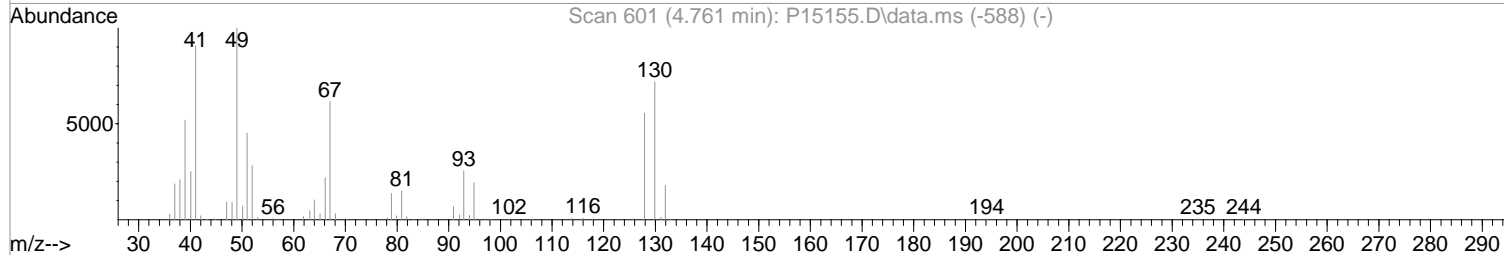
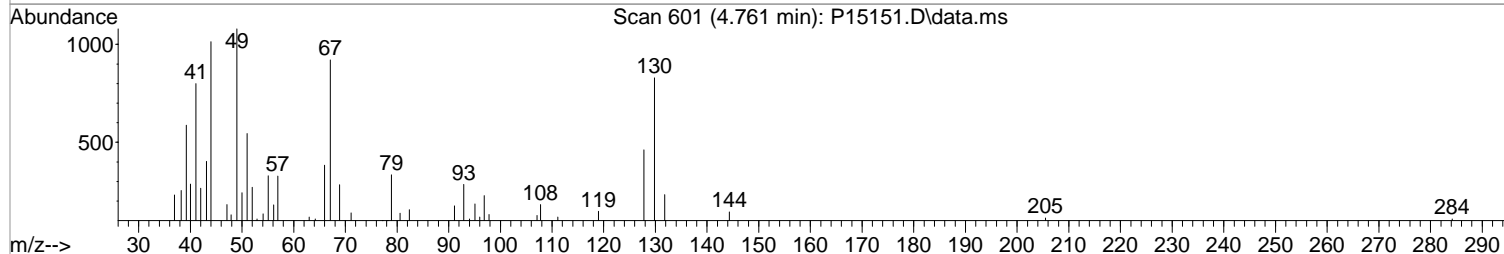
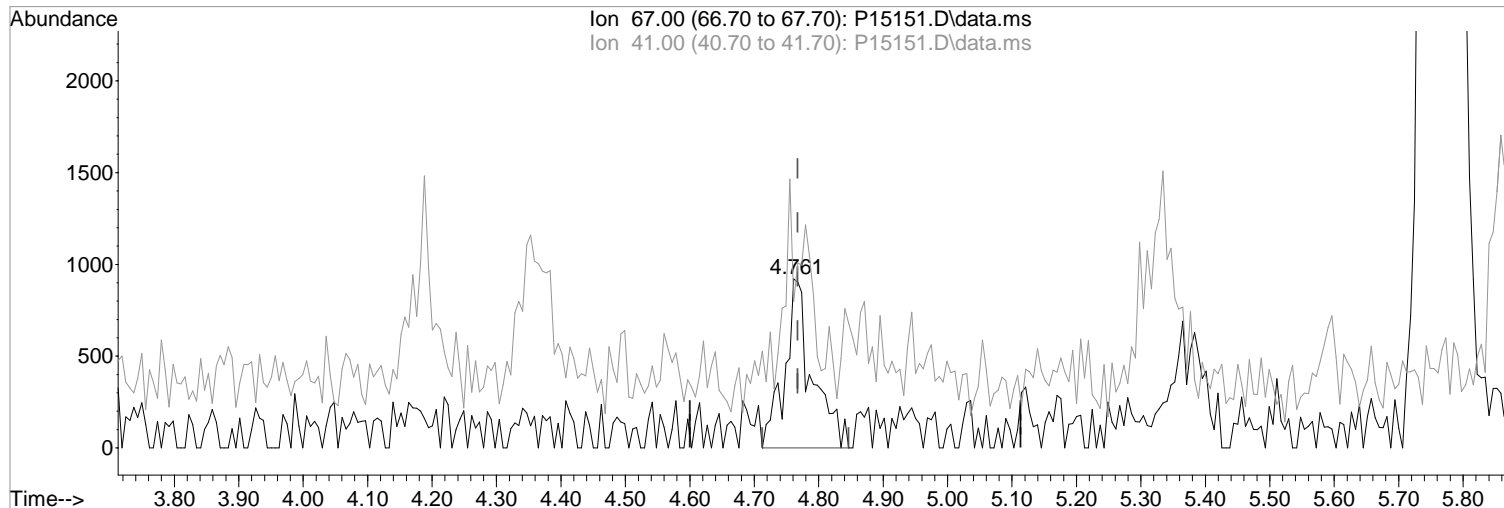
| Ion | Exp% | Act% |
|-------|--------|--------|
| 67.00 | 100 | 100 |
| 41.00 | 147.70 | 86.75# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



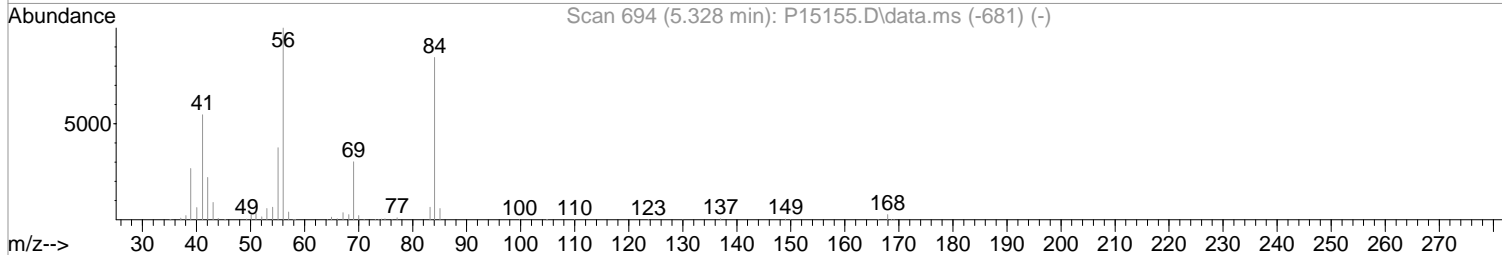
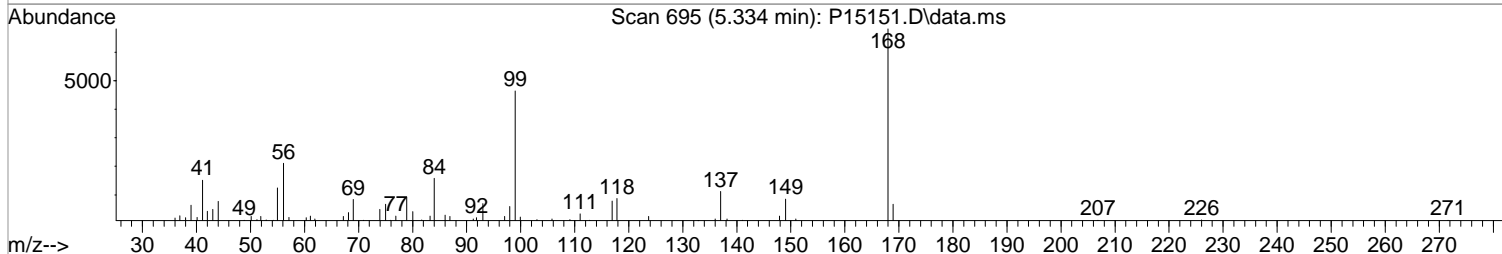
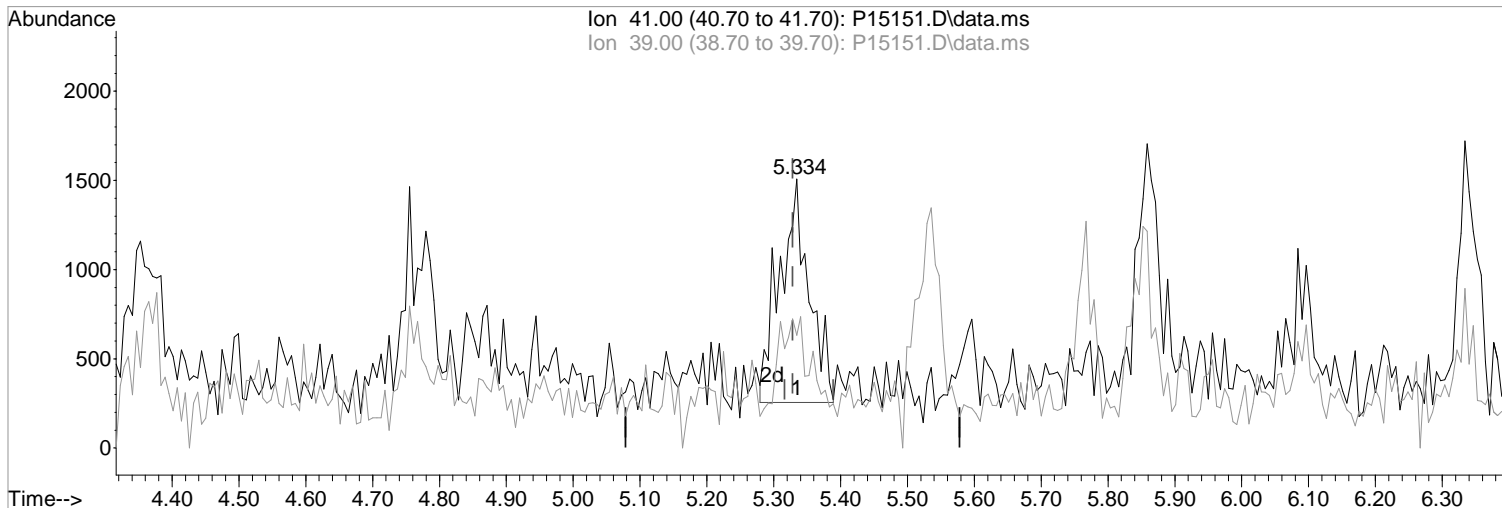
(38) Methacrylonitrile
4.761min (-0.006) 1.48 ppb
response 2730
Ion Exp% Act%
67.00 100 100
41.00 147.70 86.75#
0.00 0.00 0.00
0.00 0.00 0.00

Manual Integration:
Before
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(44) Cyclohexane (P)

5.334min (+0.006) 1.22 ppb m

response 3829

| Ion | Exp% | Act% |
|-------|-------|-------|
| 41.00 | 100 | 100 |
| 39.00 | 49.10 | 41.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

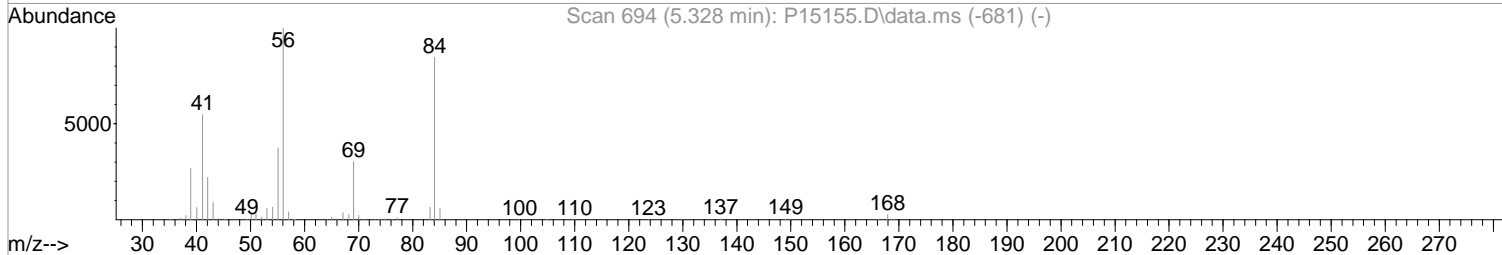
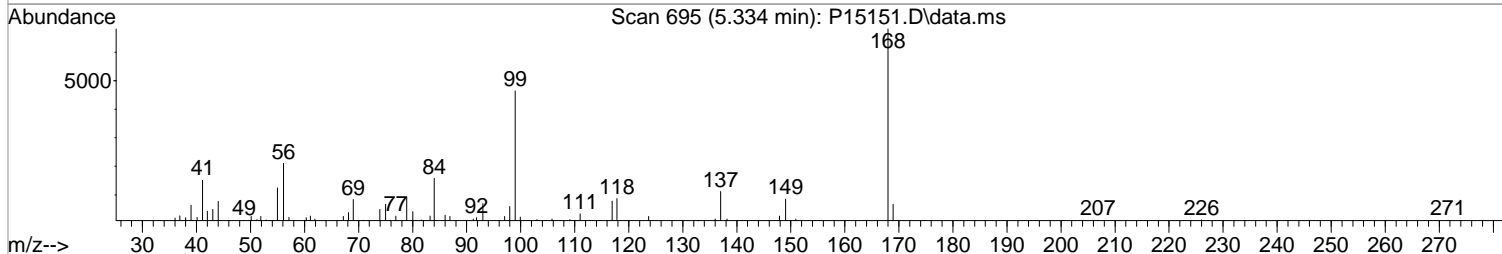
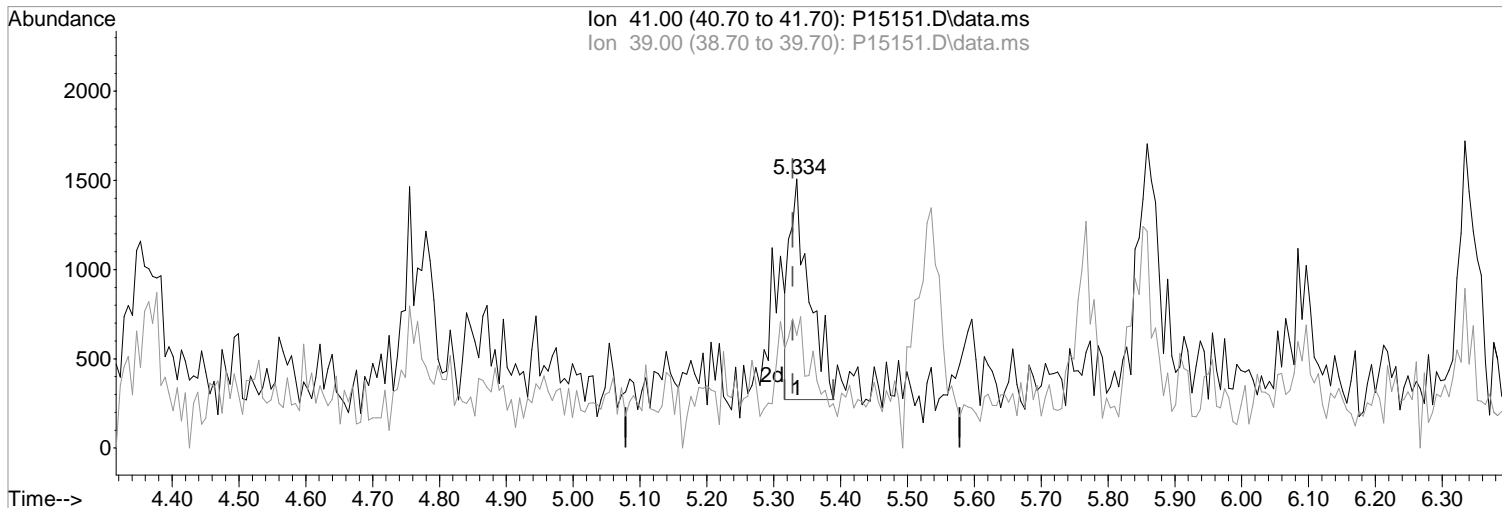
Split Peak

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(44) Cyclohexane (P)
5.334min (+0.006) 0.81 ppb
response 2539

Manual Integration:

Before

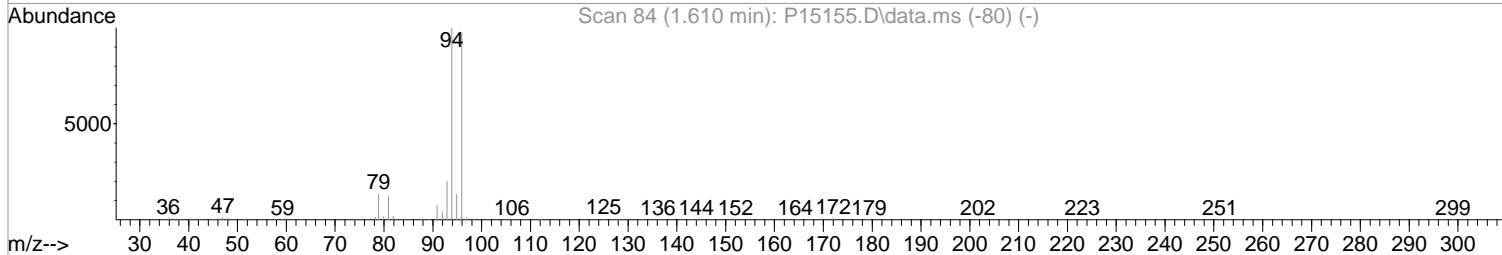
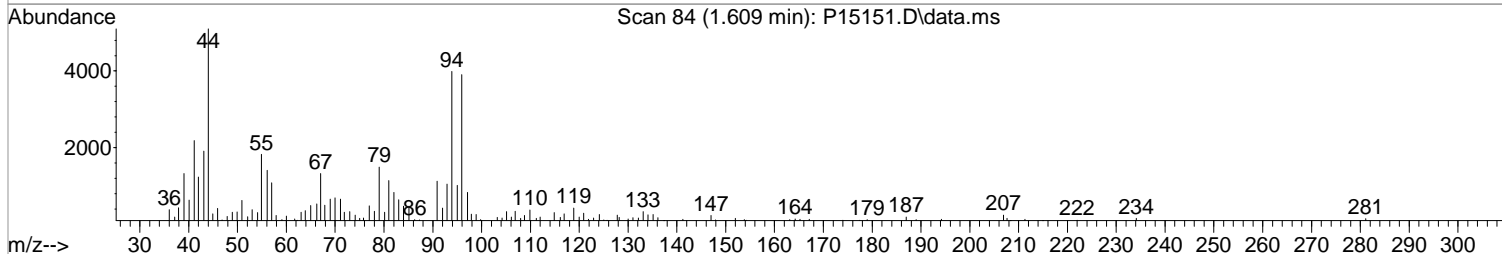
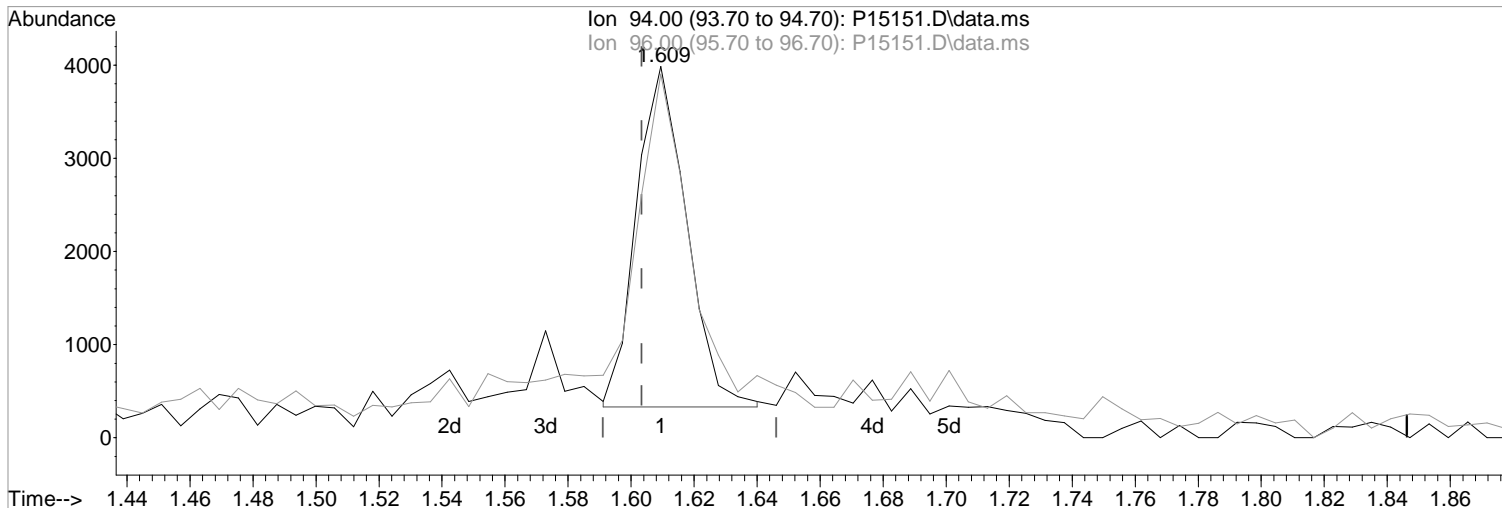
| Ion | Exp% | Act% |
|-------|-------|-------|
| 41.00 | 100 | 100 |
| 39.00 | 49.10 | 41.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(5) Bromomethane (P)
1.609min (+0.006) 1.25 ppb m
response 4038

Manual Integration:
After
Poor integration.

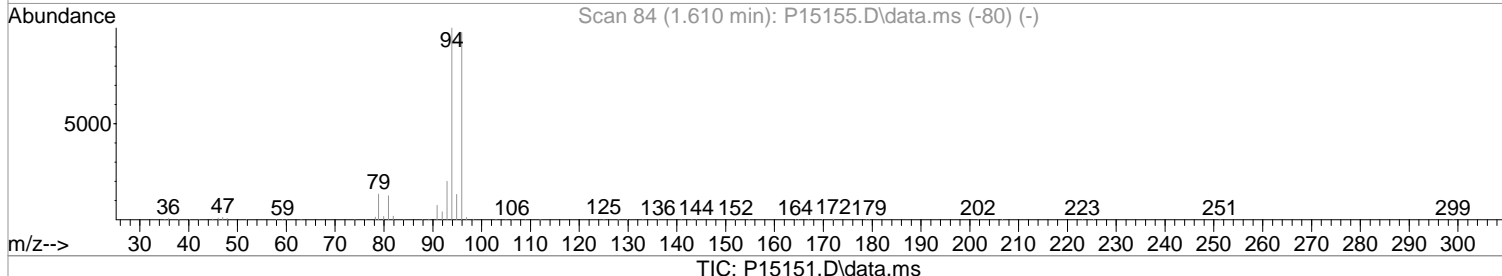
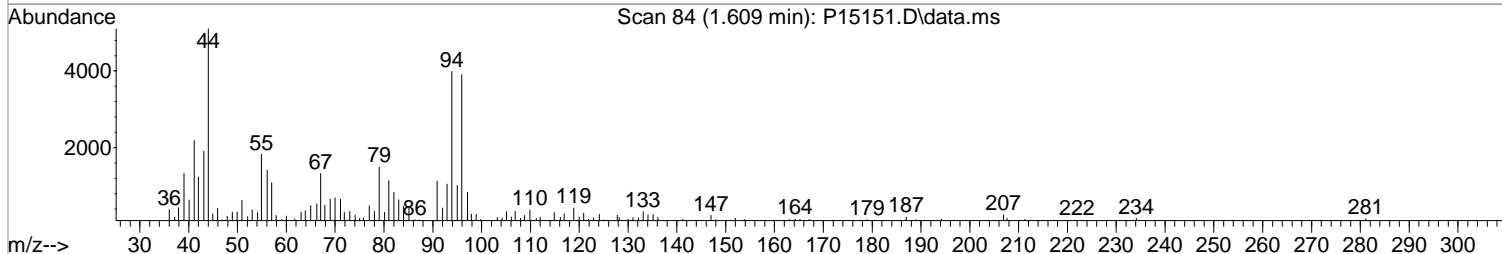
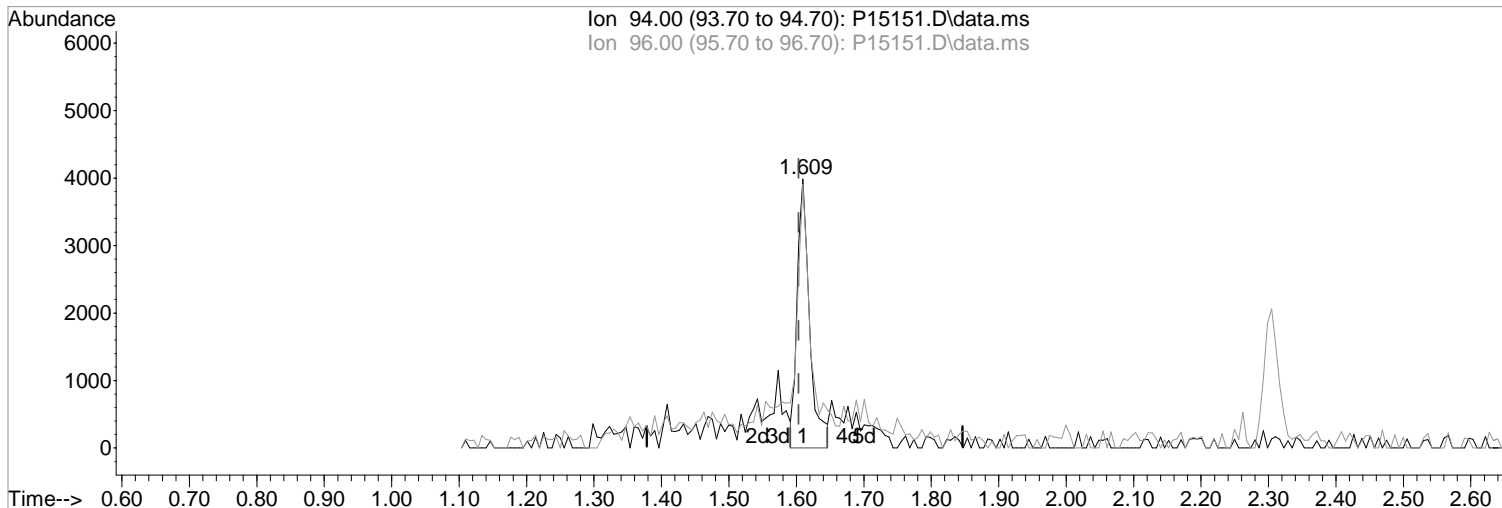
| Ion | Exp% | Act% |
|-------|-------|-------|
| 94.00 | 100 | 100 |
| 96.00 | 97.70 | 97.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(5) Bromomethane (P)
1.609min (+0.006) 1.59 ppb
response 5131

Manual Integration:

Before

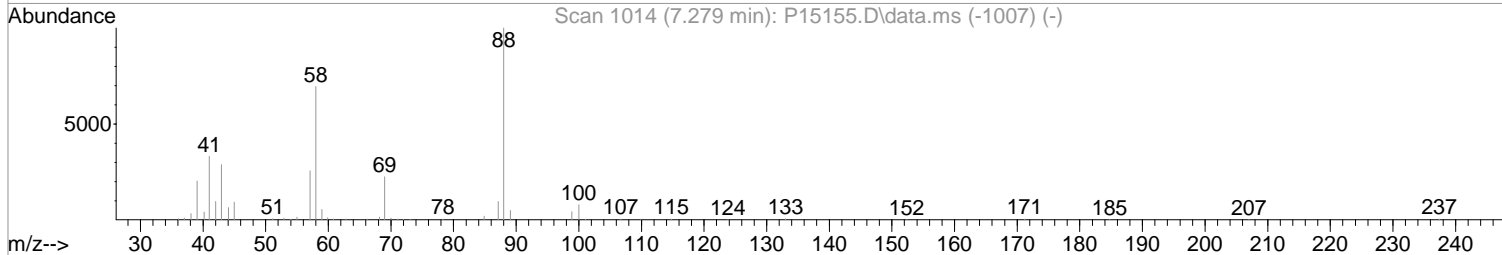
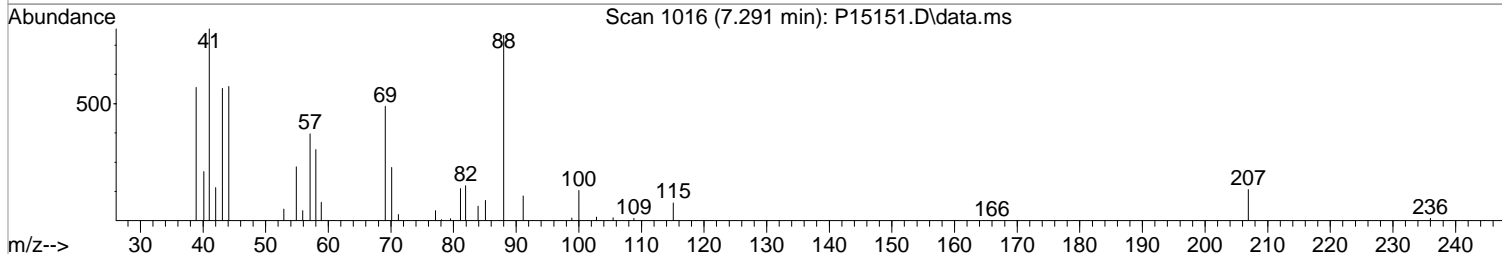
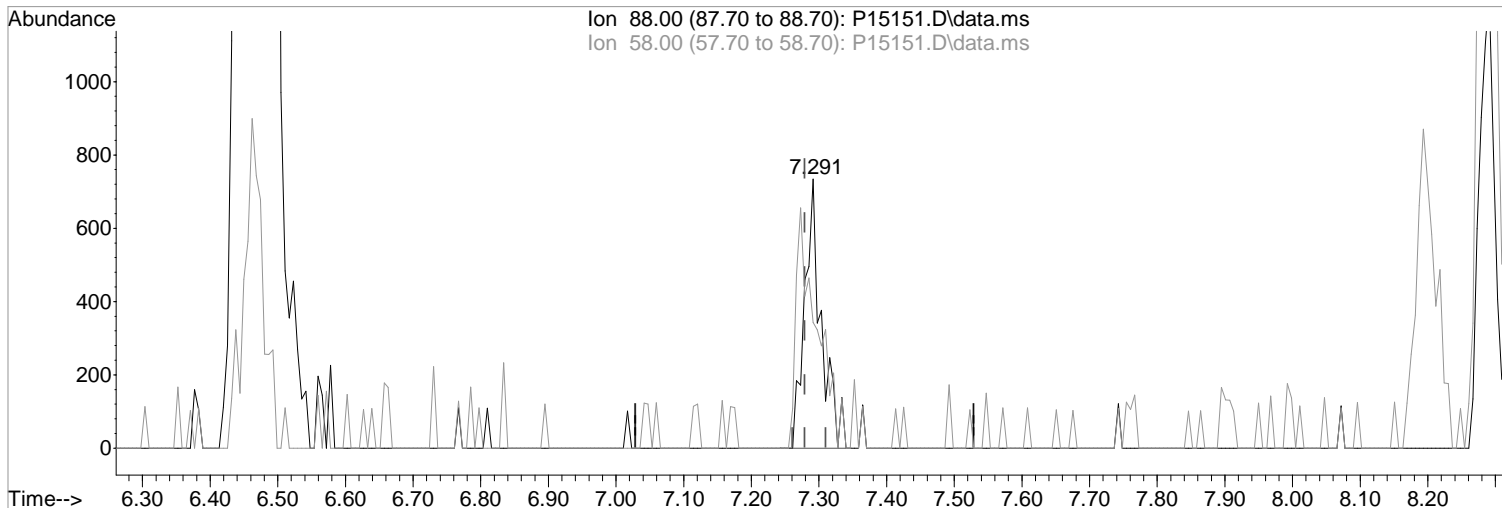
| Ion | Exp% | Act% |
|-------|-------|-------|
| 94.00 | 100 | 100 |
| 96.00 | 97.70 | 97.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(58) 1,4-Dioxane
7.291min (+0.012) 19.01 ppb m
response 1262

Manual Integration:

After

Split Peak

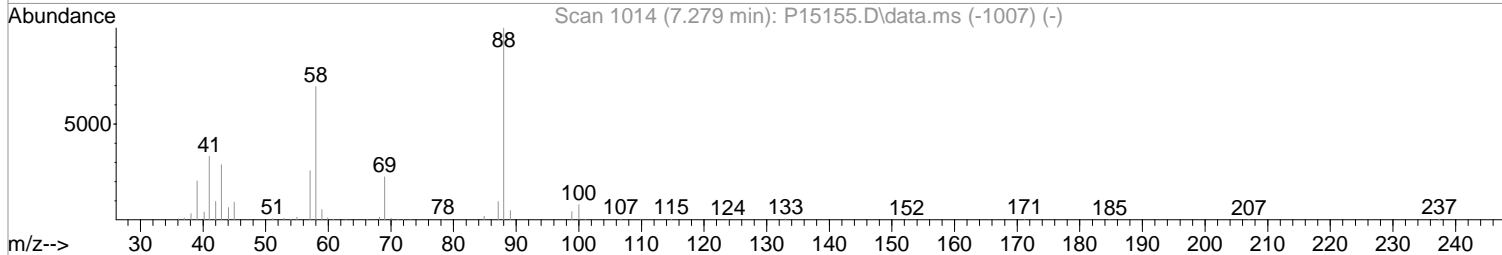
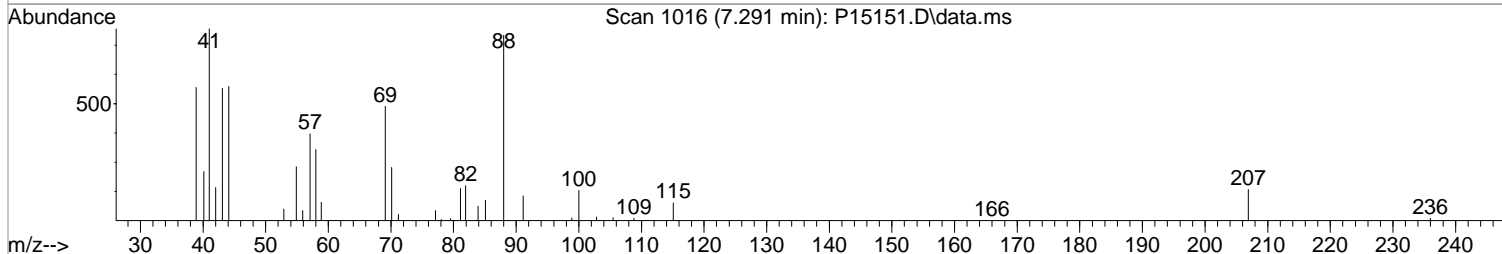
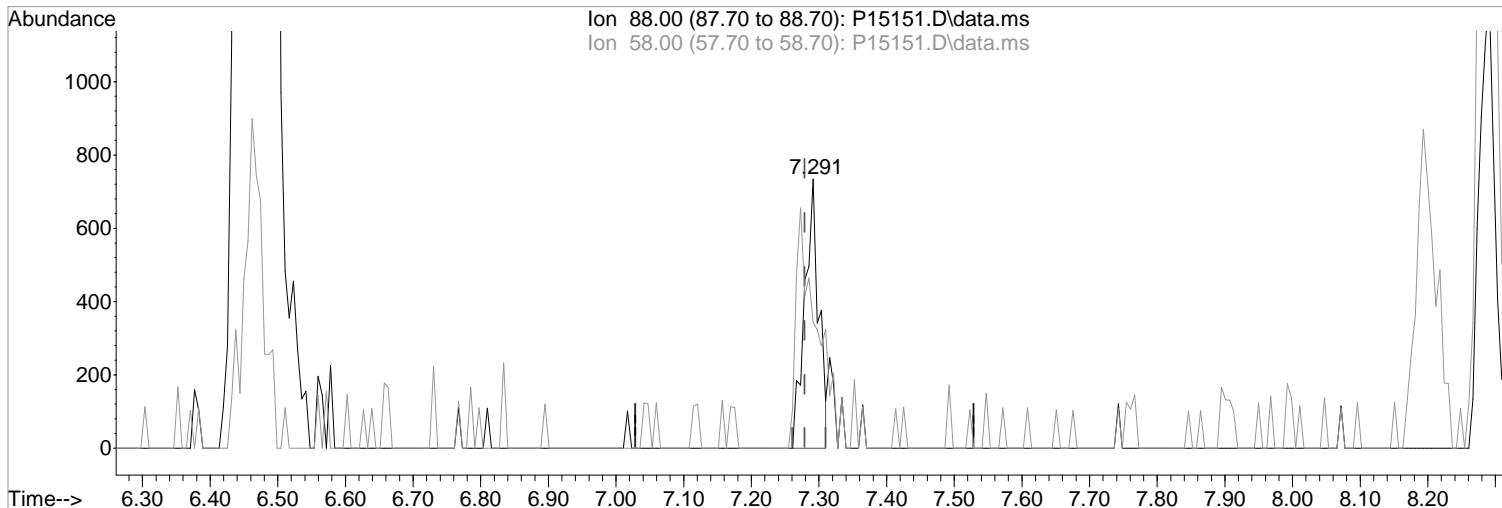
01/02/18

| Ion | Exp% | Act% |
|-------|-------|--------|
| 88.00 | 100 | 100 |
| 58.00 | 70.00 | 46.73# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(58) 1,4-Dioxane
7.291min (+0.012) 15.92 ppb
response 1057

Manual Integration:
Before

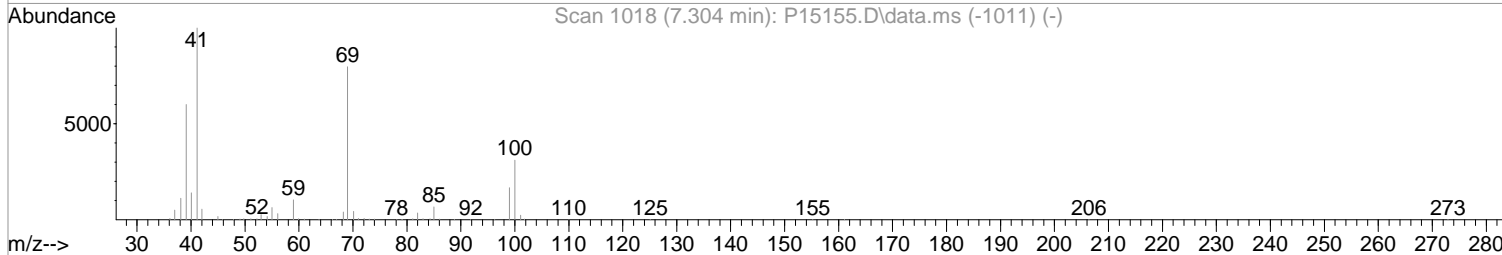
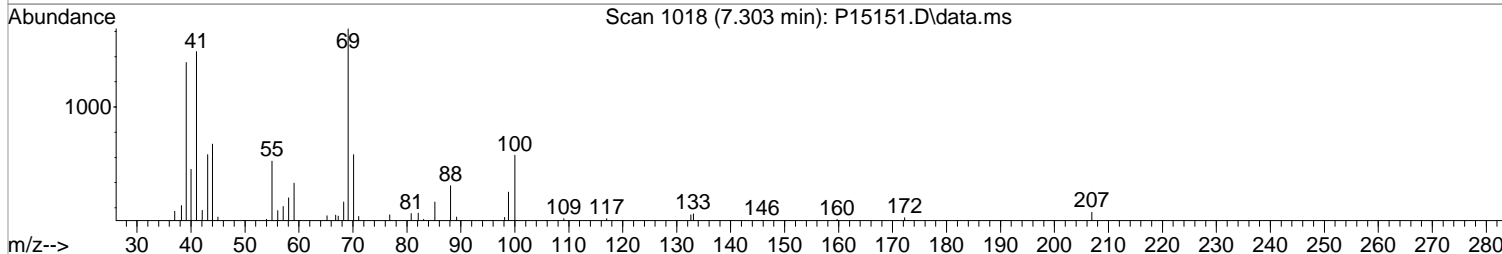
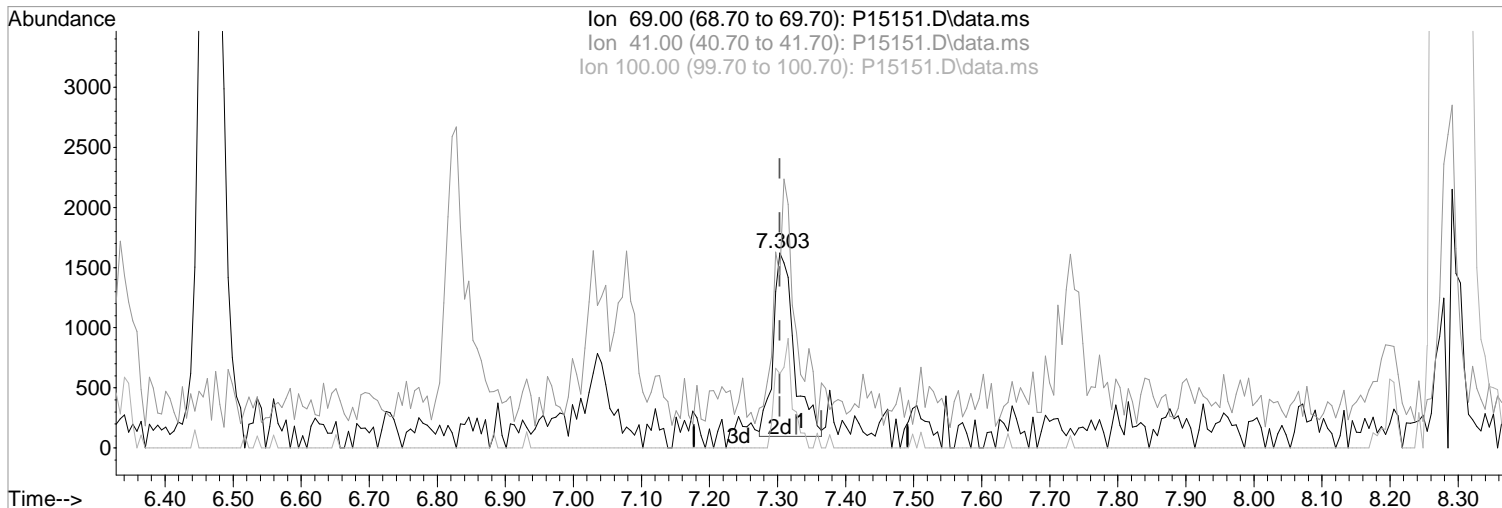
| Ion | Exp% | Act% |
|-------|-------|--------|
| 88.00 | 100 | 100 |
| 58.00 | 70.00 | 46.73# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



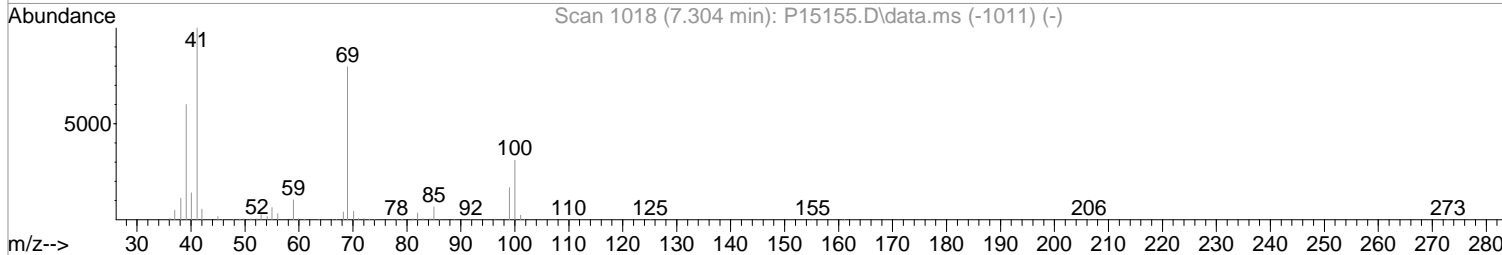
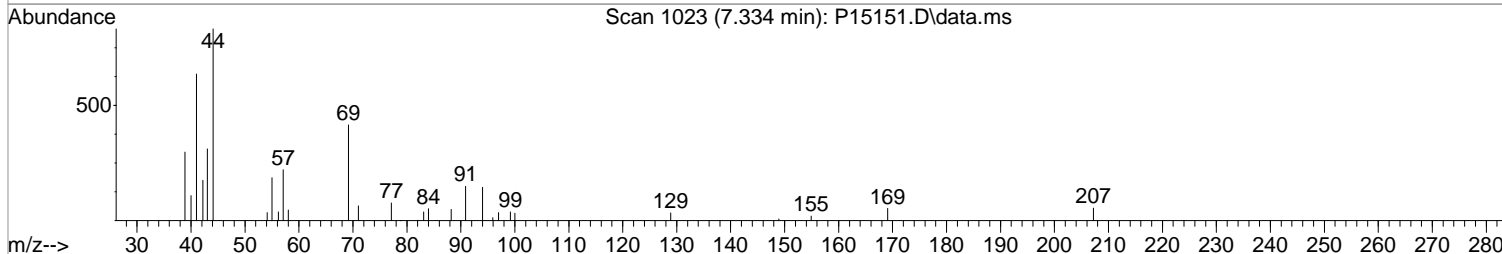
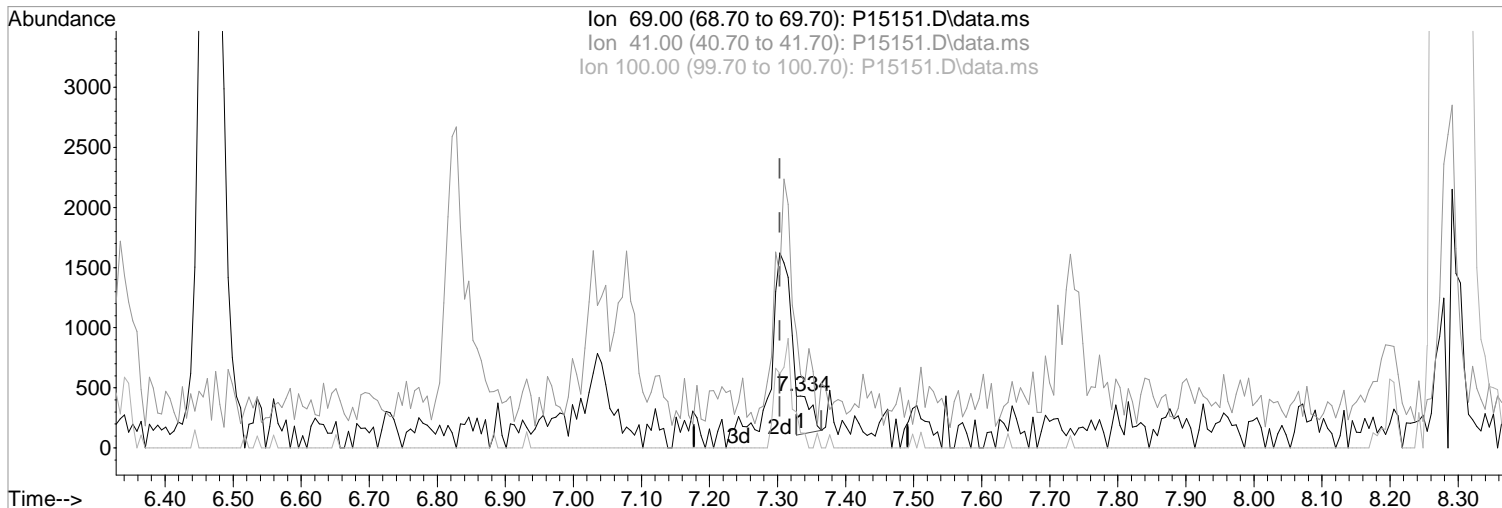
(59) Methyl Methacrylate
7.303min (+0.000) 1.05 ppb m
response 3248
Ion Exp% Act%
69.00 100 100
41.00 126.30 88.77#
100.00 38.80 38.06
0.00 0.00 0.00

Manual Integration:
After
Split Peak
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15151.D
 Acq On : 29 Dec 2017 5:44 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



TIC: P15151.D\data.ms

(59) Methyl Methacrylate
 7.334min (+0.031) 0.13 ppb
 response 403

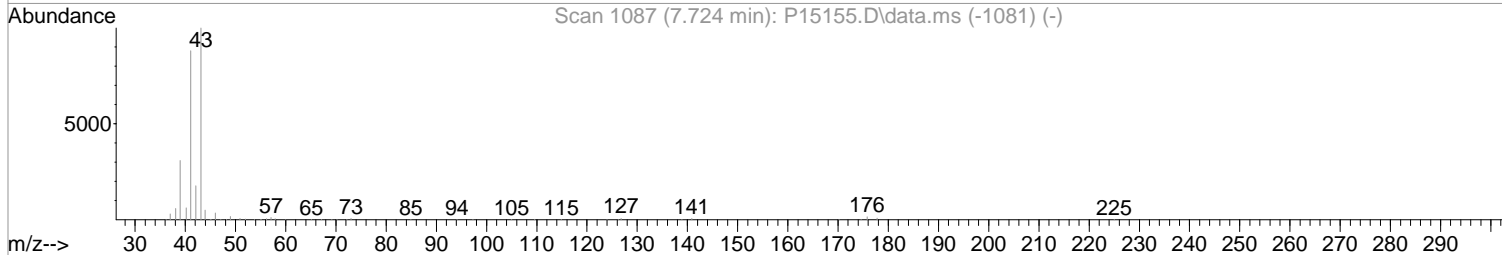
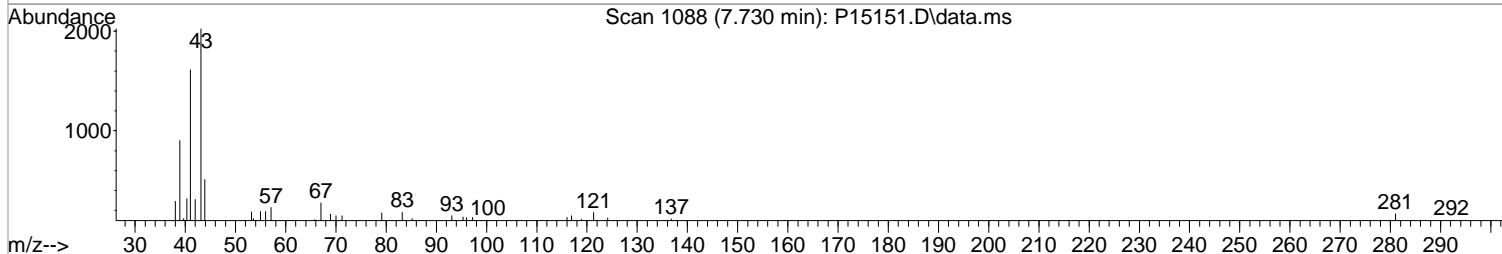
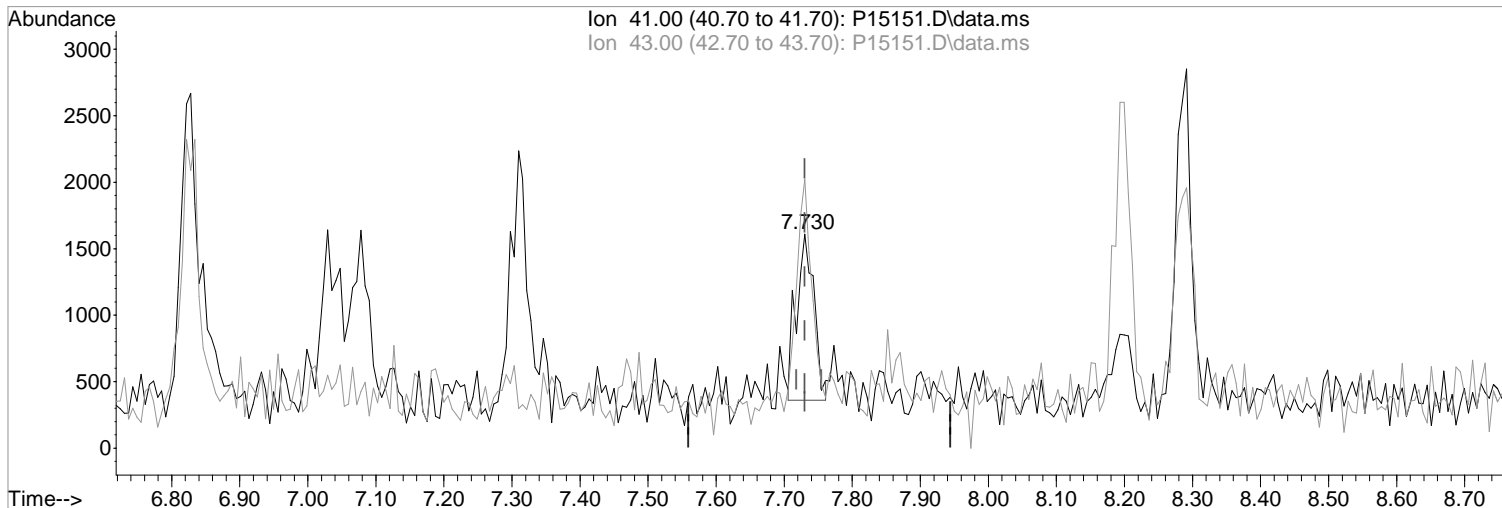
| Ion | Exp% | Act% |
|--------|--------|--------|
| 69.00 | 100 | 100 |
| 41.00 | 126.30 | 140.97 |
| 100.00 | 38.80 | 28.94 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
 Before
 01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(61) 2-Nitropropane

Manual Integration:

7.730min (+0.000) 1.74 ppb m

After

response 2254

Split Peak

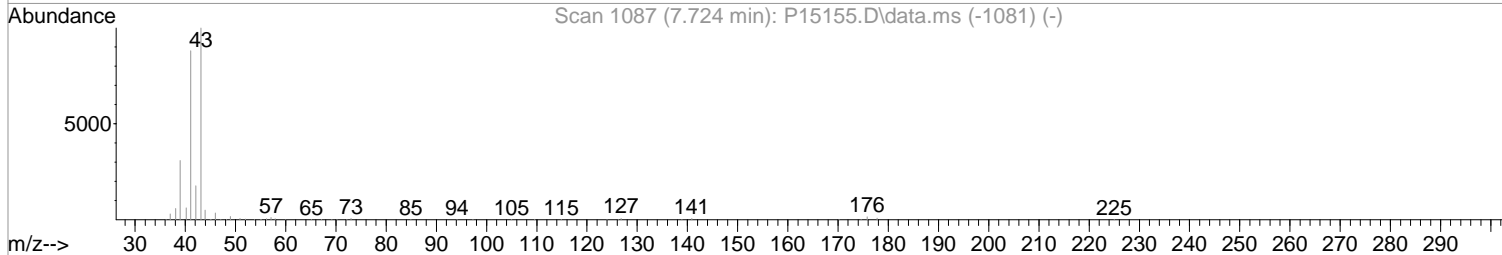
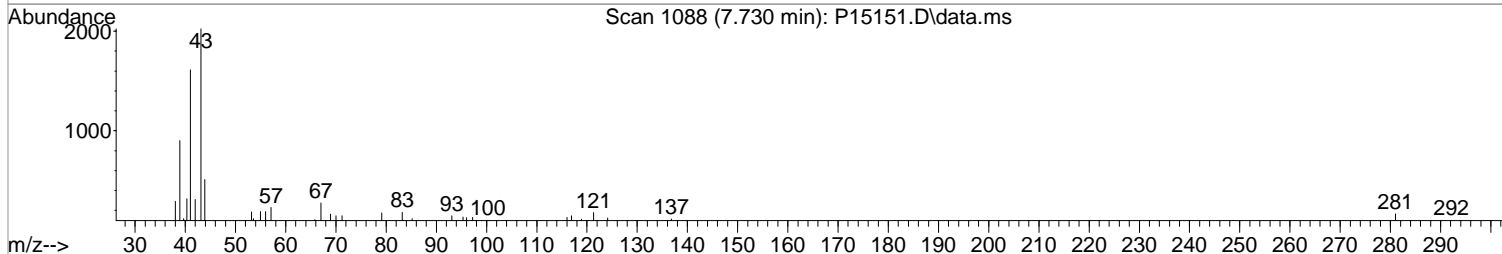
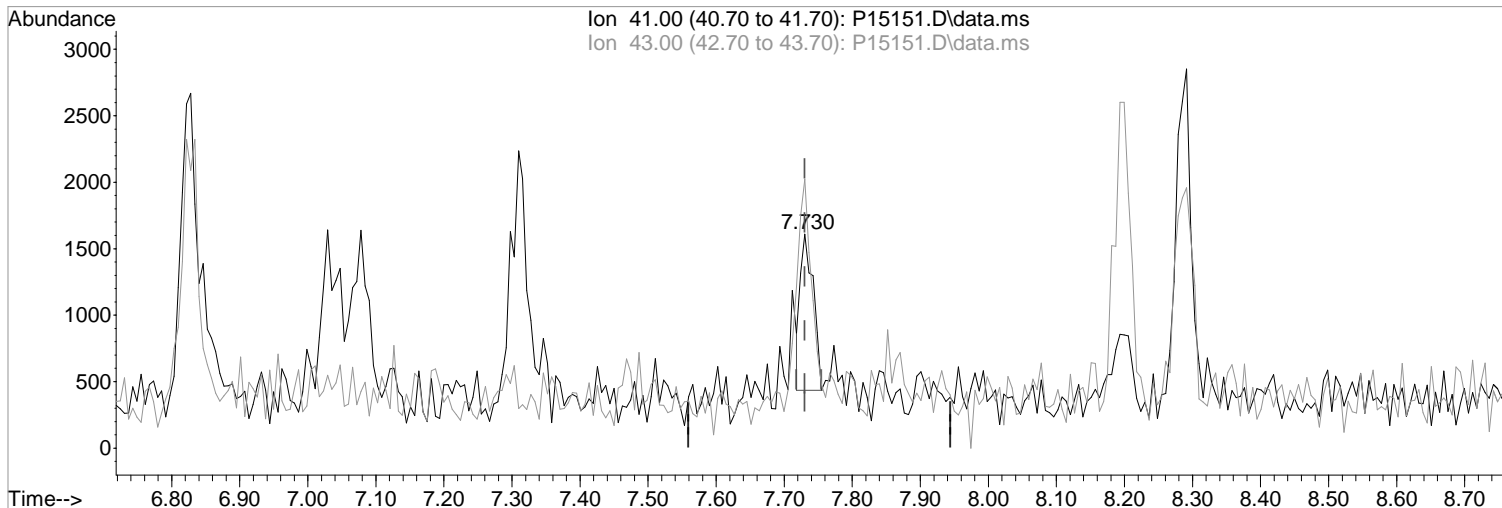
| Ion | Exp% | Act% |
|-------|--------|--------|
| 41.00 | 100 | 100 |
| 43.00 | 113.70 | 125.71 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(61) 2-Nitropropane
7.730min (+0.000) 1.19 ppb
response 1546

Manual Integration:

Before

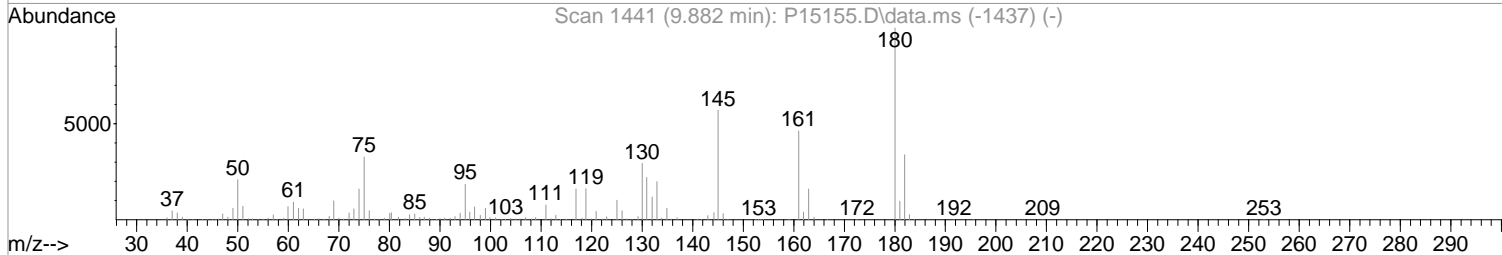
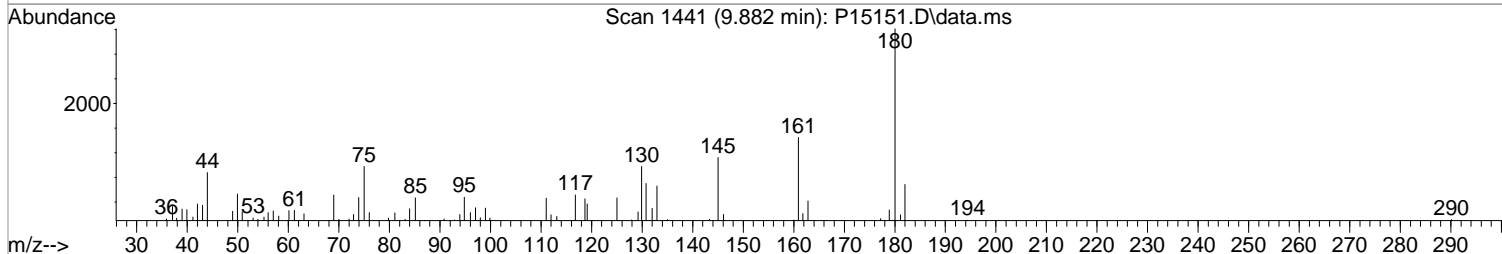
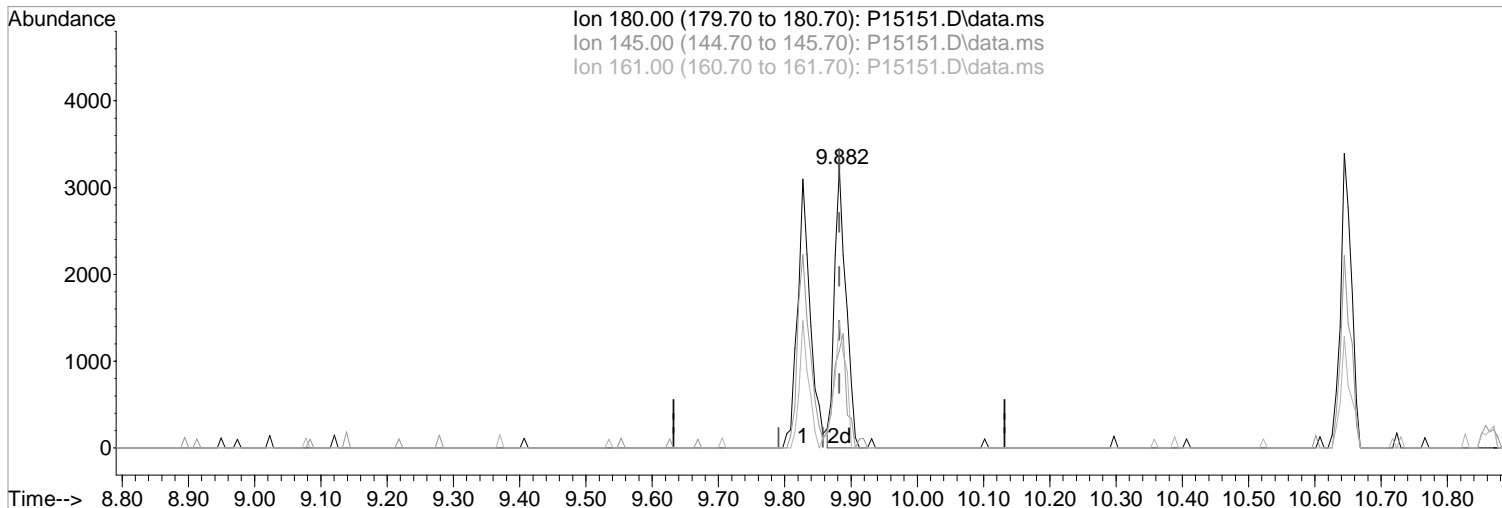
| Ion | Exp% | Act% |
|-------|--------|--------|
| 41.00 | 100 | 100 |
| 43.00 | 113.70 | 125.71 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(80) 4-CBTF
9.882min (+0.000) 0.96 ppb m
response 3872

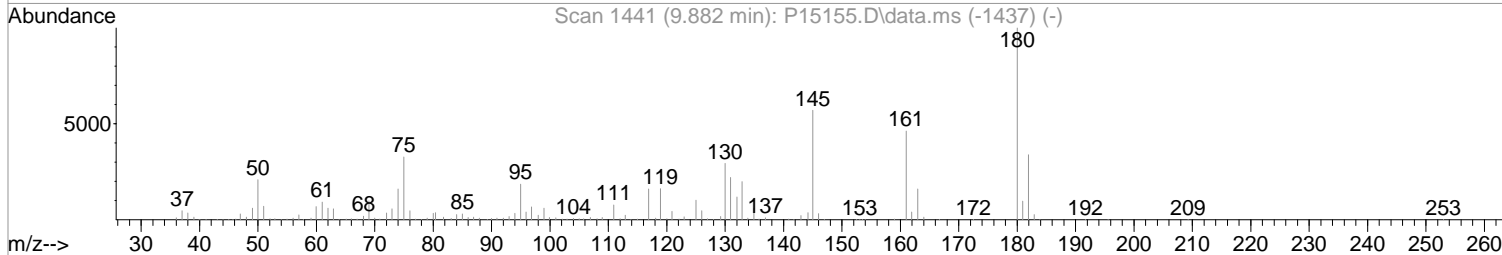
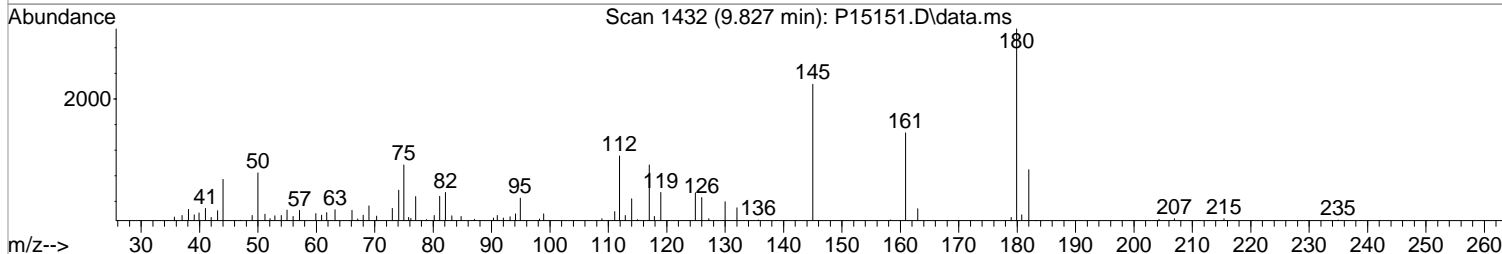
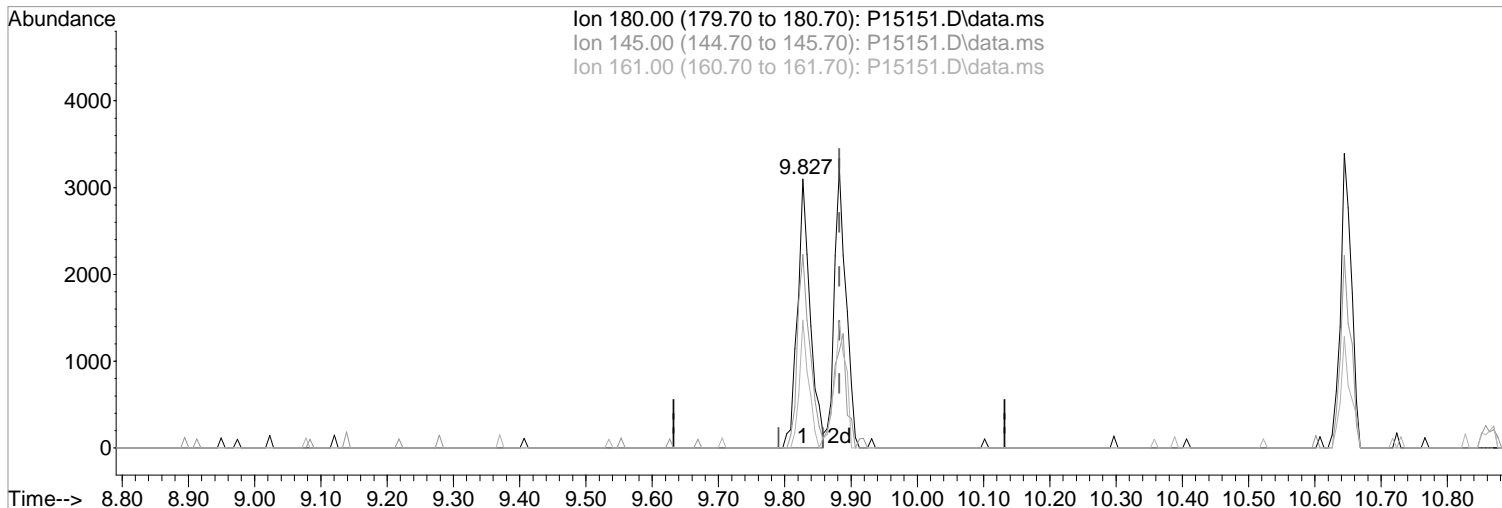
| Ion | Exp% | Act% |
|--------|-------|--------|
| 180.00 | 100 | 100 |
| 145.00 | 57.00 | 34.96# |
| 161.00 | 46.00 | 45.10 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Wrong peak selected.
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15151.D\data.ms

(80) 4-CBTF

9.827min (-0.055) 1.03 ppb
response 4151

Manual Integration:

Before

| Ion | Exp% | Act% |
|--------|-------|-------|
| 180.00 | 100 | 100 |
| 145.00 | 57.00 | 71.93 |
| 161.00 | 46.00 | 47.47 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15151.D
 Acq On : 29 Dec 2017 5:44 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:49:20 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|------------|---------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 287174 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 482641 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 421648 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 206696 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 140301 | 48.96 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 97.92% | | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 197838 | 50.38 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 100.76% | | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 626569 | 48.97 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 97.94% | | | |
| 70) SURR2,BFB | 10.858 | 95 | 234667 | 47.40 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 94.80% | | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 3092 | 0.87 | ppb | | 89 |
| 3) Chloromethane | 1.305 | 50 | 4661 | 1.07 | ppb | | 93 |
| 4) Vinyl Chloride | 1.384 | 62 | 3538 | 0.83 | ppb | # | 44 |
| 5) Bromomethane | 1.609 | 94 | 4038m | 1.25 | ppb | | |
| 6) Chloroethane | 1.689 | 64 | 1872 | 0.70 | ppb | # | 34 |
| 7) Freon 21 | 1.835 | 67 | 5264 | 0.95 | ppb | | 97 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 3531 | 0.86 | ppb | | 80 |
| 9) Diethyl Ether | 2.115 | 59 | 2717 | 0.96 | ppb | # | 60 |
| 10) Freon 123a | 2.115 | 67 | 3628 | 1.06 | ppb | | 95 |
| 11) Freon 123 | 2.170 | 83 | 3539 | 0.88 | ppb | | 90 |
| 12) Acrolein | 2.219 | 56 | 4284 | 5.05 | ppb | | 80 |
| 13) 1,1-Dicethene | 2.304 | 96 | 3164 | 1.07 | ppb | # | 79 |
| 14) Freon 113 | 2.311 | 101 | 2912 | 1.04 | ppb | | 100 |
| 15) Acetone | 2.353 | 43 | 2644 | 1.52 | ppb | | 91 |
| 16) 2-Propanol | 2.475 | 45 | 6693 | 19.92 | ppb | | 84 |
| 17) Iodomethane | 2.439 | 142 | 607 | 0.23 | ppb | | 92 |
| 18) Carbon Disulfide | 2.500 | 76 | 7689 | 0.89 | ppb | | 99 |
| 19) Acetonitrile | 2.597 | 40 | 1502 | 5.08 | ppb | # | 89 |
| 20) Allyl Chloride | 2.634 | 76 | 1334 | 0.85 | ppb | # | 54 |
| 21) Methyl Acetate | 2.658 | 43 | 2880 | 0.92 | ppb | | 95 |
| 22) Methylene Chloride | 2.743 | 84 | 3120 | 1.00 | ppb | | 90 |
| 23) TBA | 2.871 | 59 | 11158 | 19.27 | ppb | | 87 |
| 24) Acrylonitrile | 3.006 | 53 | 8428 | 5.01 | ppb | | 91 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 10288 | 0.97 | ppb | | 91 |
| 26) trans-1,2-Dichloroethene | 3.036 | 96 | 2908 | 0.95 | ppb | | 94 |
| 28) 1,1-Dicethane | 3.536 | 63 | 5387 | 0.97 | ppb | | 93 |
| 29) Vinyl Acetate | 3.640 | 86 | 1198m | 1.32 | ppb | | |
| 30) DIPE | 3.658 | 45 | 11357 | 1.08 | ppb | | 95 |
| 31) 2-Chloro-1,3-Butadiene | 3.664 | 53 | 5319 | 0.99 | ppb | | 97 |
| 32) ETBE | 4.176 | 59 | 9684 | 0.91 | ppb | | 95 |
| 33) 2,2-Dichloropropane | 4.353 | 77 | 4489 | 0.91 | ppb | | 88 |
| 34) cis-1,2-Dichloroethene | 4.377 | 96 | 3133m | 0.86 | ppb | | |
| 36) Propionitrile | 4.511 | 54 | 4096 | 5.73 | ppb | | 66 |
| 37) Bromochloromethane | 4.761 | 130 | 2044m | 1.02 | ppb | | |
| 38) Methacrylonitrile | 4.761 | 67 | 1485m | 0.80 | ppb | | |
| 40) Chloroform | 4.944 | 83 | 5941 | 0.99 | ppb | | 96 |
| 41) 1,1,1-Trichloroethane | 5.231 | 97 | 4781 | 1.01 | ppb | # | 83 |
| 42) TAME | 6.090 | 73 | 10018 | 0.97 | ppb | | 87 |
| 44) Cyclohexane | 5.334 | 41 | 3829m | 1.22 | ppb | | |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15151.D
 Acq On : 29 Dec 2017 5:44 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:49:20 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev | (Min) |
|-------------------------------|--------|------|----------|-------|-------|-----|-------|
| 46) Carbontetrachloride | 5.511 | 117 | 3082 | 0.85 | ppb | # | 81 |
| 47) 1,1-Dichloropropene | 5.536 | 75 | 3874 | 0.91 | ppb | | 83 |
| 49) Benzene | 5.840 | 78 | 11319 | 0.90 | ppb | | 86 |
| 50) 1,2-Dichloroethane | 5.889 | 62 | 4380 | 0.95 | ppb | | 91 |
| 51) Iso-Butyl Alcohol | 5.846 | 43 | 5135 | 20.08 | ppb | | 85 |
| 52) n-Heptane | 6.334 | 43 | 4453 | 1.02 | ppb | | 92 |
| 53) 1-Butanol | 6.828 | 56 | 6937 | 41.00 | ppb | | 85 |
| 54) Trichloroethene | 6.797 | 130 | 3367 | 1.04 | ppb | | 94 |
| 55) Methylcyclohexane | 7.035 | 55 | 3617 | 0.86 | ppb | | 88 |
| 56) 1,2-Diclpropane | 7.072 | 63 | 3310 | 0.98 | ppb | | 80 |
| 57) Dibromomethane | 7.212 | 93 | 2049 | 1.02 | ppb | # | 70 |
| 58) 1,4-Dioxane | 7.291 | 88 | 1262m | 19.01 | ppb | | |
| 59) Methyl Methacrylate | 7.303 | 69 | 3248m | 1.05 | ppb | | |
| 60) Bromodichloromethane | 7.444 | 83 | 4463 | 1.05 | ppb | | 97 |
| 61) 2-Nitropropane | 7.730 | 41 | 2254m | 1.74 | ppb | | |
| 63) cis-1,3-Dichloropropene | 7.998 | 75 | 4467 | 0.84 | ppb | | 80 |
| 64) 4-Methyl-2-pentanone | 8.194 | 43 | 4242 | 1.03 | ppb | | 86 |
| 66) Toluene | 8.364 | 91 | 12447 | 0.91 | ppb | | 94 |
| 67) trans-1,3-Dichloropropene | 8.632 | 75 | 4602 | 0.92 | ppb | | 93 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 5274 | 1.05 | ppb | | 82 |
| 69) 1,1,2-Trichloroethane | 8.815 | 97 | 3198 | 1.03 | ppb | | 92 |
| 72) Tetrachloroethene | 8.962 | 164 | 2460 | 1.06 | ppb | # | 79 |
| 73) 2-Hexanone | 9.114 | 43 | 2578 | 0.83 | ppb | # | 69 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 4841 | 0.89 | ppb | # | 80 |
| 75) Dibromochloromethane | 9.218 | 129 | 2631 | 0.93 | ppb | | 96 |
| 76) N-Butyl Acetate | 9.273 | 43 | 4723 | 0.81 | ppb | | 96 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 2980 | 0.99 | ppb | | 83 |
| 78) Chlorobenzene | 9.809 | 112 | 7570 | 0.92 | ppb | | 87 |
| 79) 3-CBTF | 9.827 | 180 | 4151 | 0.94 | ppb | # | 91 |
| 80) 4-CBTF | 9.882 | 180 | 3872m | 0.96 | ppb | | |
| 81) 1,1,1,2-Tetrachloroethane | 9.894 | 131 | 2802 | 0.95 | ppb | | 93 |
| 82) Ethylbenzene | 9.931 | 106 | 4390 | 0.96 | ppb | # | 87 |
| 83) (m+p)Xylene | 10.041 | 106 | 9803 | 1.78 | ppb | | 92 |
| 84) o-Xylene | 10.400 | 106 | 5138 | 0.93 | ppb | | 98 |
| 85) Styrene | 10.413 | 104 | 8086 | 0.87 | ppb | | 88 |
| 87) Bromoform | 10.565 | 173 | 1755 | 0.97 | ppb | | 84 |
| 88) 2-CBTF | 10.644 | 180 | 3906 | 0.95 | ppb | | 90 |
| 89) Isopropylbenzene | 10.736 | 105 | 13170 | 0.97 | ppb | | 93 |
| 90) Cyclohexanone | 10.797 | 55 | 20423 | 19.77 | ppb | | 95 |
| 91) trans-1,4-Dichloro-2-B... | 11.053 | 53 | 978 | 0.91 | ppb | # | 82 |
| 92) 1,1,2,2-Tetrachloroethane | 10.992 | 83 | 4102 | 1.00 | ppb | | 92 |
| 93) Bromobenzene | 10.980 | 156 | 3547 | 1.07 | ppb | # | 71 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 1416 | 1.06 | ppb | | 93 |
| 95) n-Propylbenzene | 11.095 | 91 | 15294 | 0.97 | ppb | | 98 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 9992 | 1.02 | ppb | | 95 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 9846 | 0.95 | ppb | | 97 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 10775 | 0.95 | ppb | | 97 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 10889 | 0.96 | ppb | | 89 |
| 100) tert-Butylbenzene | 11.516 | 119 | 8854 | 0.90 | ppb | | 90 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 9946 | 0.87 | ppb | | 92 |
| 102) 3,4-DCBTF | 11.620 | 214 | 2773 | 0.85 | ppb | # | 93 |
| 103) sec-Butylbenzene | 11.699 | 105 | 13514 | 0.94 | ppb | | 98 |
| 104) p-Isopropyltoluene | 11.821 | 119 | 10672 | 0.88 | ppb | | 93 |
| 105) 1,3-Dclbenz | 11.784 | 146 | 5907 | 0.93 | ppb | | 86 |
| 106) 1,4-Dclbenz | 11.857 | 146 | 6523 | 0.98 | ppb | | 89 |
| 107) 2,4-DCBTF | 11.912 | 214 | 3106 | 1.02 | ppb | # | 90 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15151.D
 Acq On : 29 Dec 2017 5:44 pm
 Operator : K.Ruest
 Sample : 1.0ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

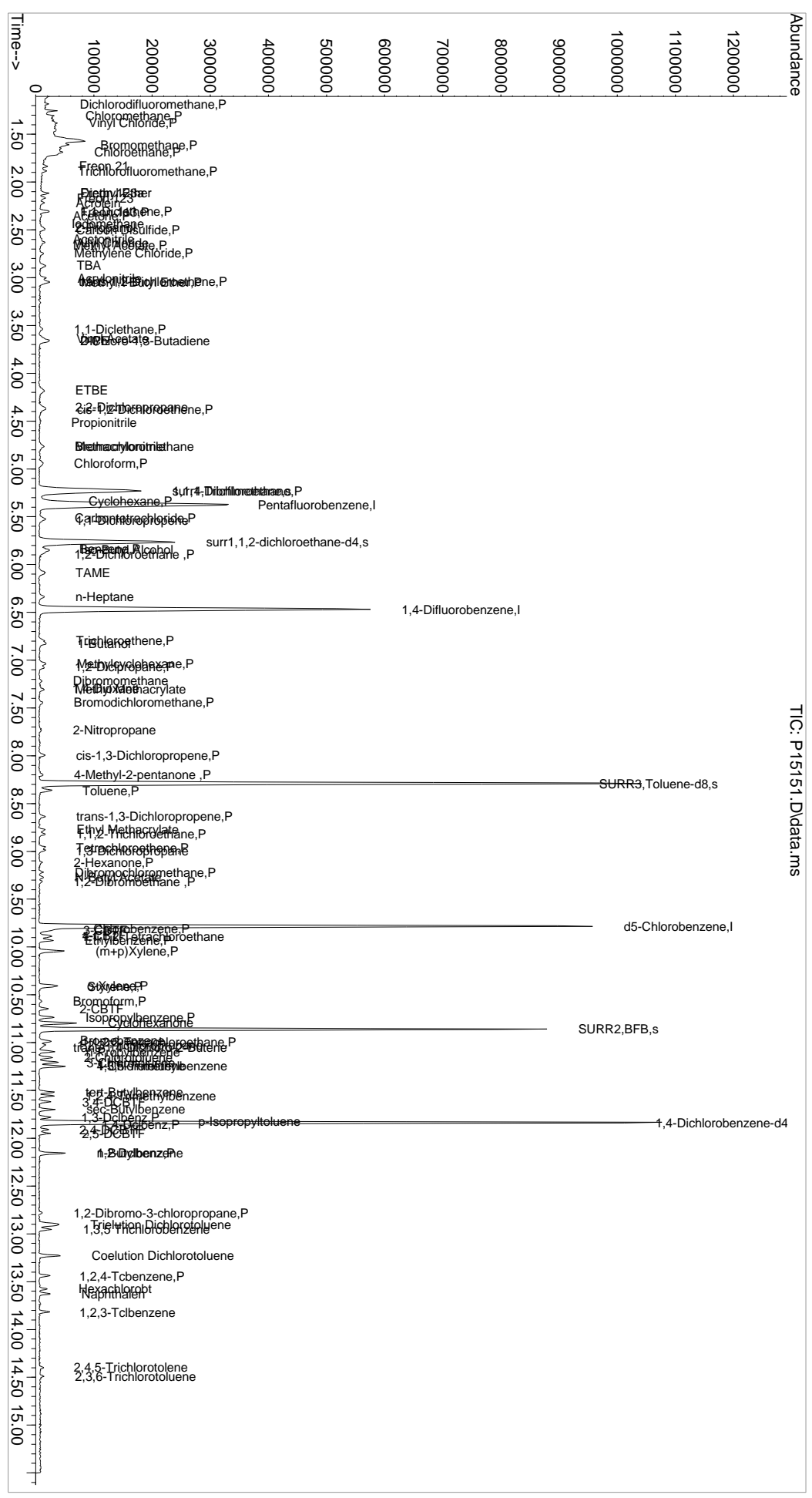
Quant Time: Jan 02 10:49:20 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|------|-------|----------|
| 108) 2,5-DCBTF | 11.949 | 214 | 2824 | 0.87 | ppb # | 81 |
| 109) n-Butylbenzene | 12.156 | 91 | 10165 | 0.90 | ppb | 96 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 5863 | 0.93 | ppb | 84 |
| 111) 1,2-Dibromo-3-chloropr... | 12.778 | 157 | 1271 | 1.23 | ppb | 81 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 16807 | 2.71 | ppb | 92 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 4049 | 0.82 | ppb # | 80 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 11563 | 1.76 | ppb | 97 |
| 115) 1,2,4-Tcbenzene | 13.443 | 180 | 3678 | 0.80 | ppb | 87 |
| 116) Hexachlorobt | 13.577 | 225 | 1668 | 0.78 | ppb | 91 |
| 117) Naphthalen | 13.625 | 128 | 10607 | 0.84 | ppb | 96 |
| 118) 1,2,3-Tclbenzene | 13.820 | 180 | 3810 | 0.86 | ppb | 90 |
| 119) 2,4,5-Trichlorotolene | 14.394 | 159 | 1480 | 0.55 | ppb # | 76 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 1149 | 0.47 | ppb # | 86 |

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

01/02/18
Data Path : I:\ACQDATA\msvoa12\Data\122917\
Data File : P15151.D
Acq On : 29 Dec 2017 5:44 pm
Operator : K.Ruest
Sample : 1.0ppb
Disc : 8260 WATER ICAL
PALS Vial : 3 Sample Multiplier: 1
Inst : MSVOA-12

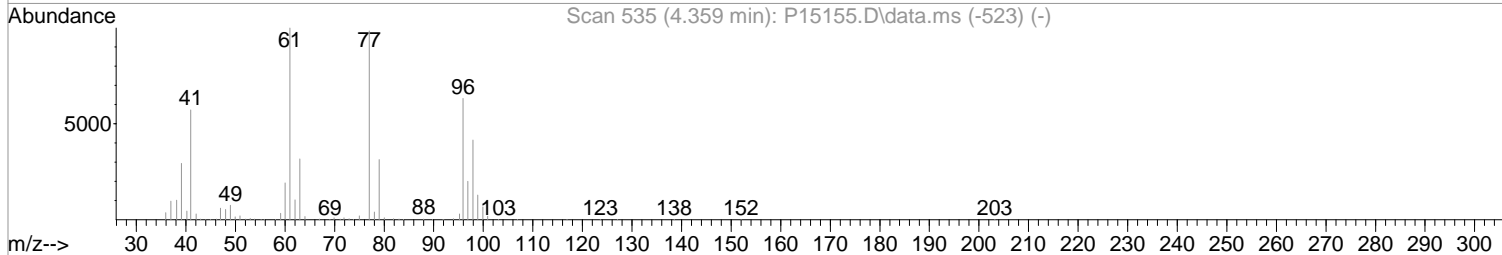
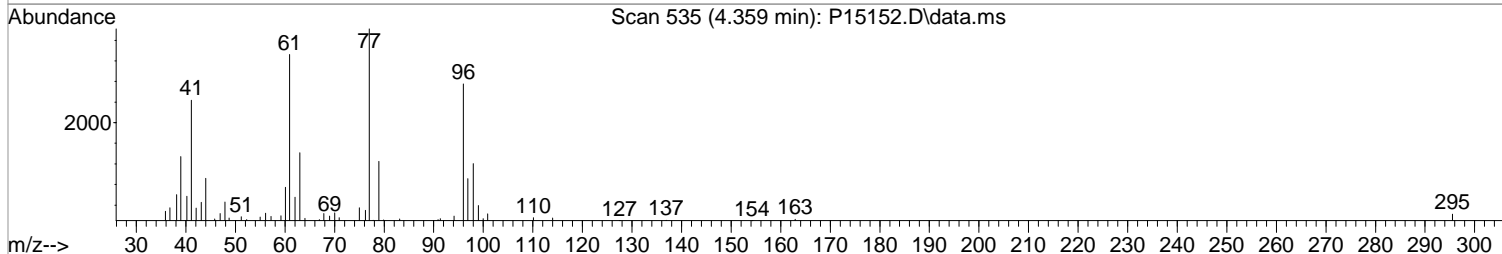
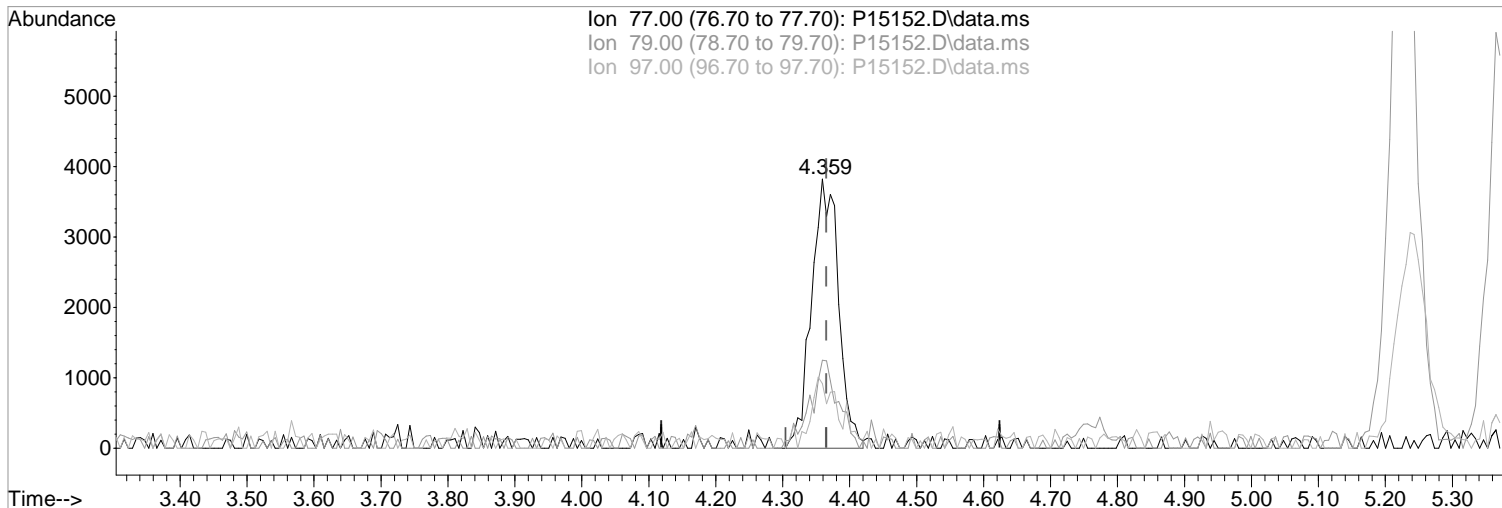
Quant Time: Jan 02 10:49:20 2018
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15152.D\data.ms

(33) 2,2-Dichloropropane
4.359min (-0.006) 2.15 ppb m
response 10714

Manual Integration:

After
Split Peak

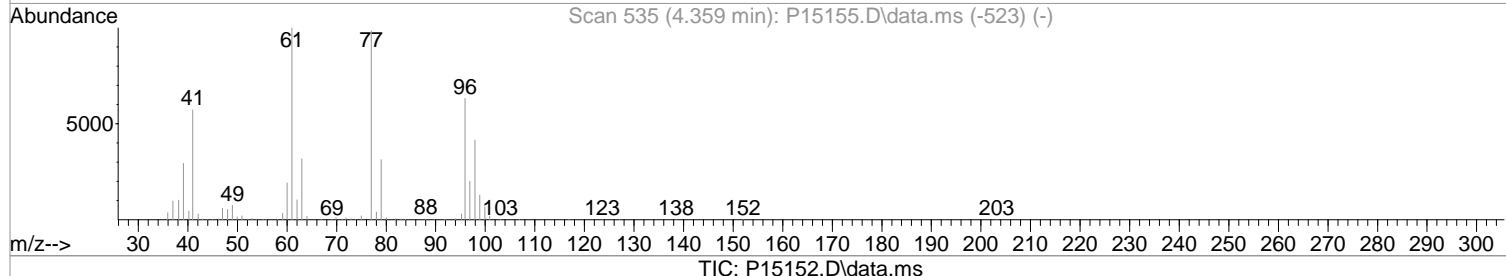
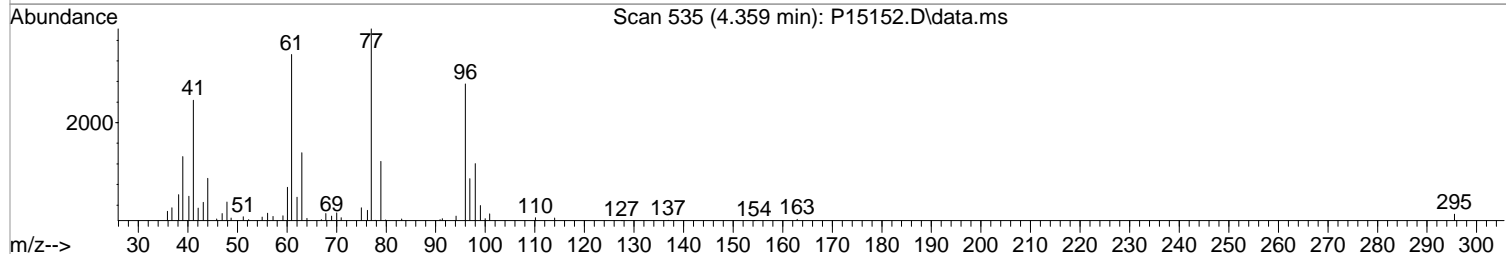
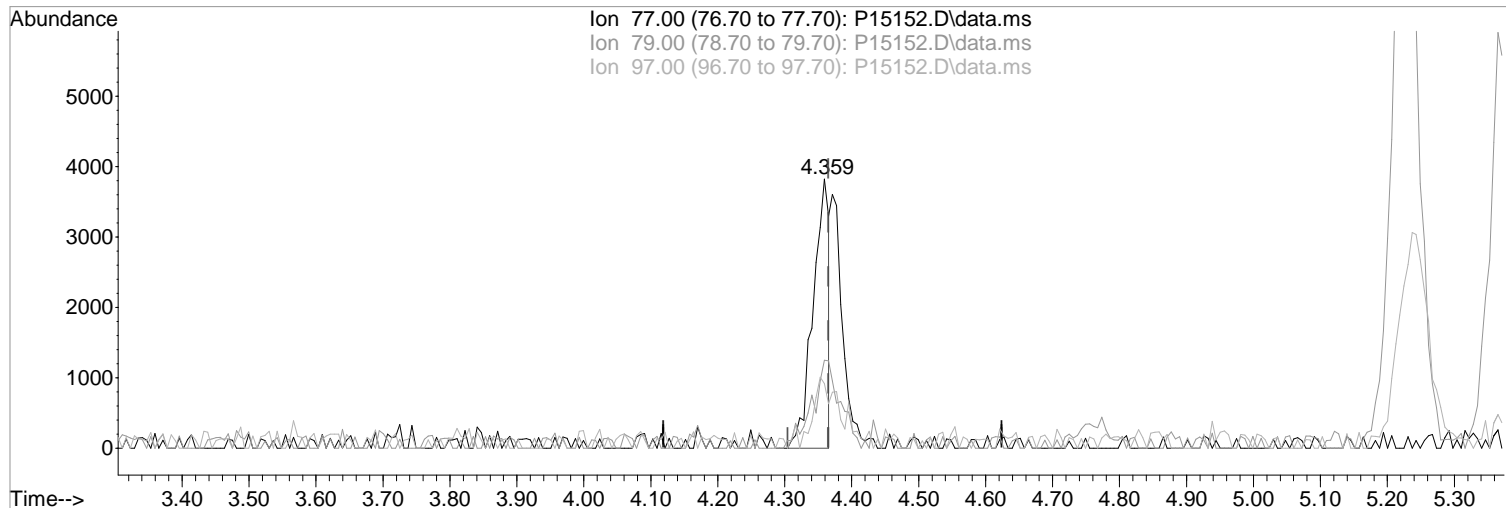
| Ion | Exp% | Act% |
|-------|-------|-------|
| 77.00 | 100 | 100 |
| 79.00 | 32.10 | 32.71 |
| 97.00 | 20.60 | 23.93 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(33) 2,2-Dichloropropane
4.359min (-0.006) 1.27 ppb
response 6313

Manual Integration:
Before

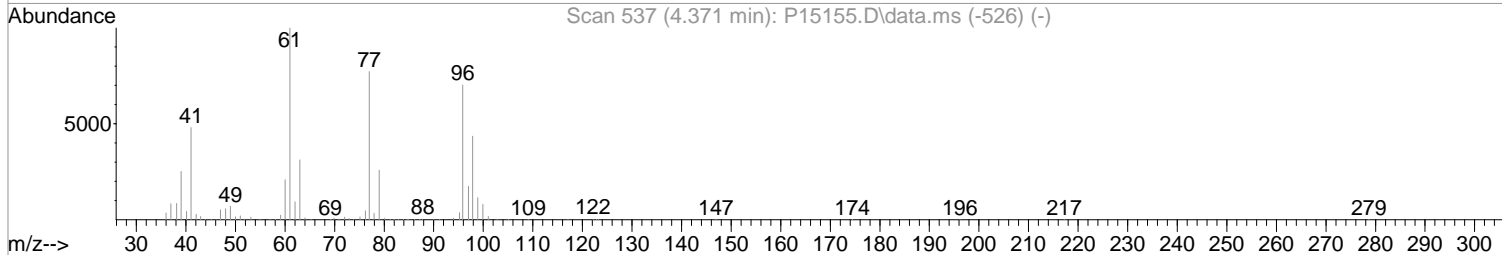
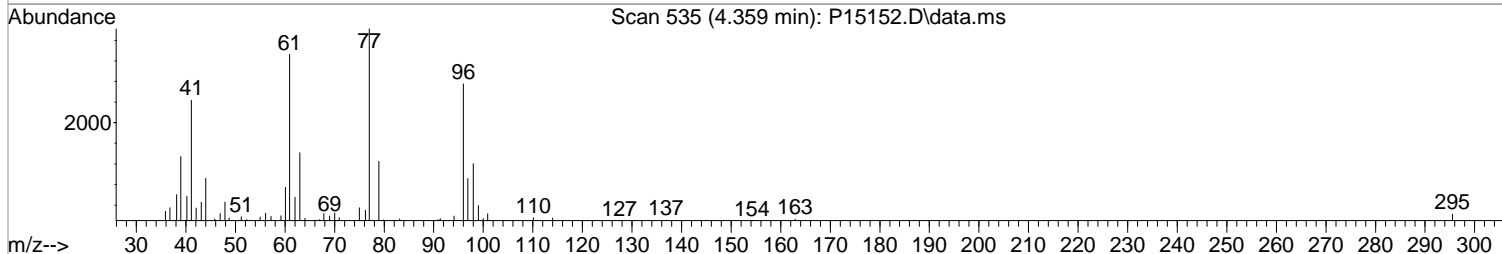
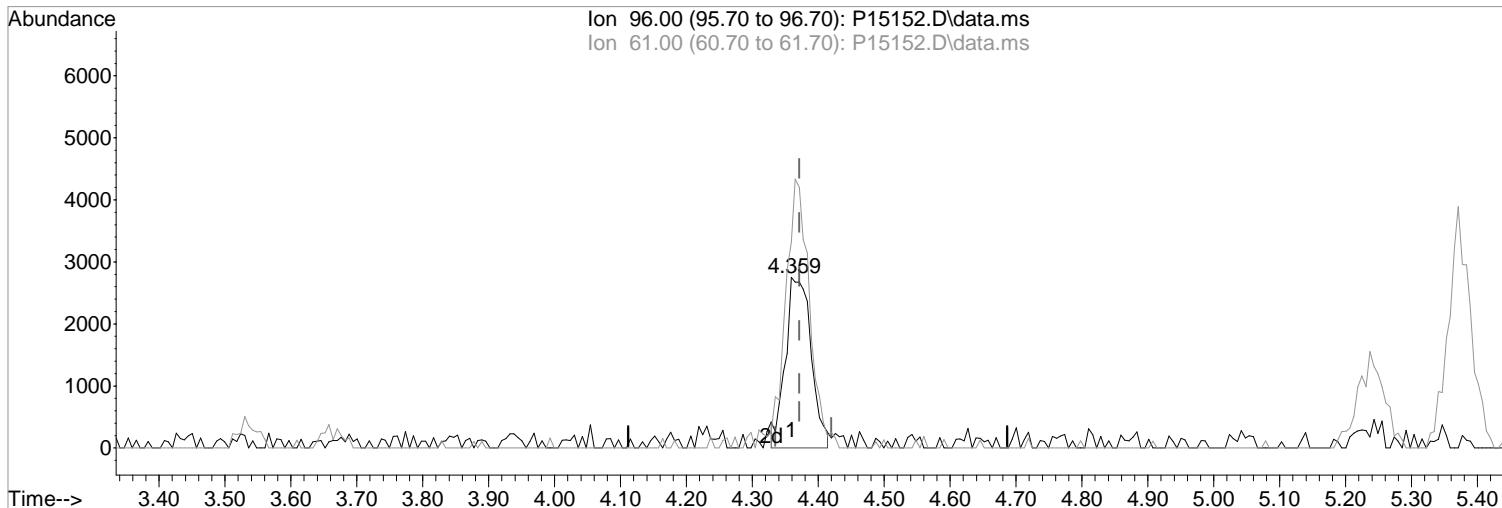
| Ion | Exp% | Act% |
|-------|-------|-------|
| 77.00 | 100 | 100 |
| 79.00 | 32.10 | 32.71 |
| 97.00 | 20.60 | 23.93 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.359min (-0.012) 2.01 ppb m
response 7407

| Ion | Exp% | Act% |
|-------|--------|---------|
| 96.00 | 100 | 100 |
| 61.00 | 142.80 | 120.72# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

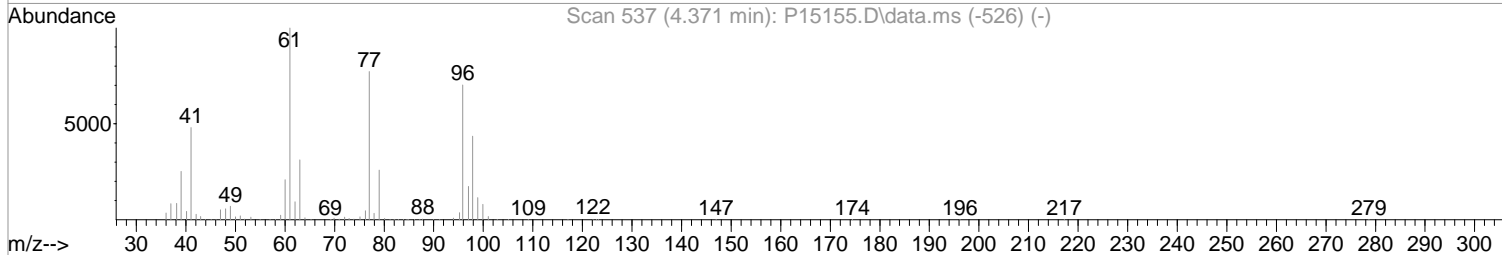
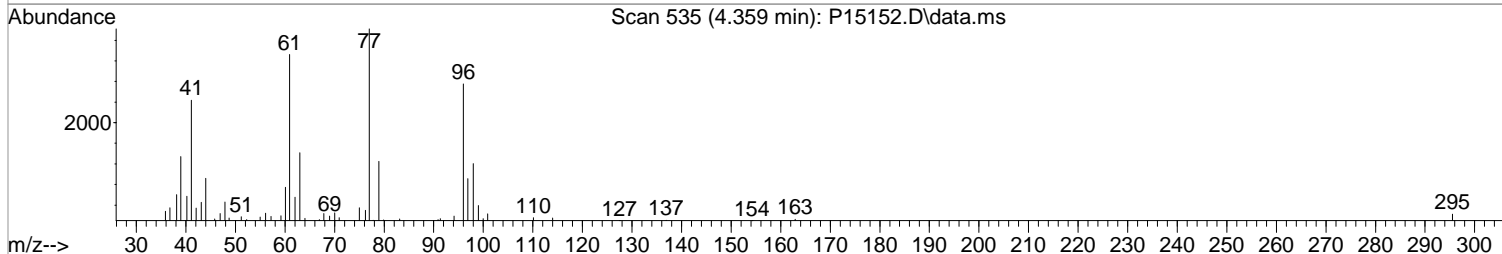
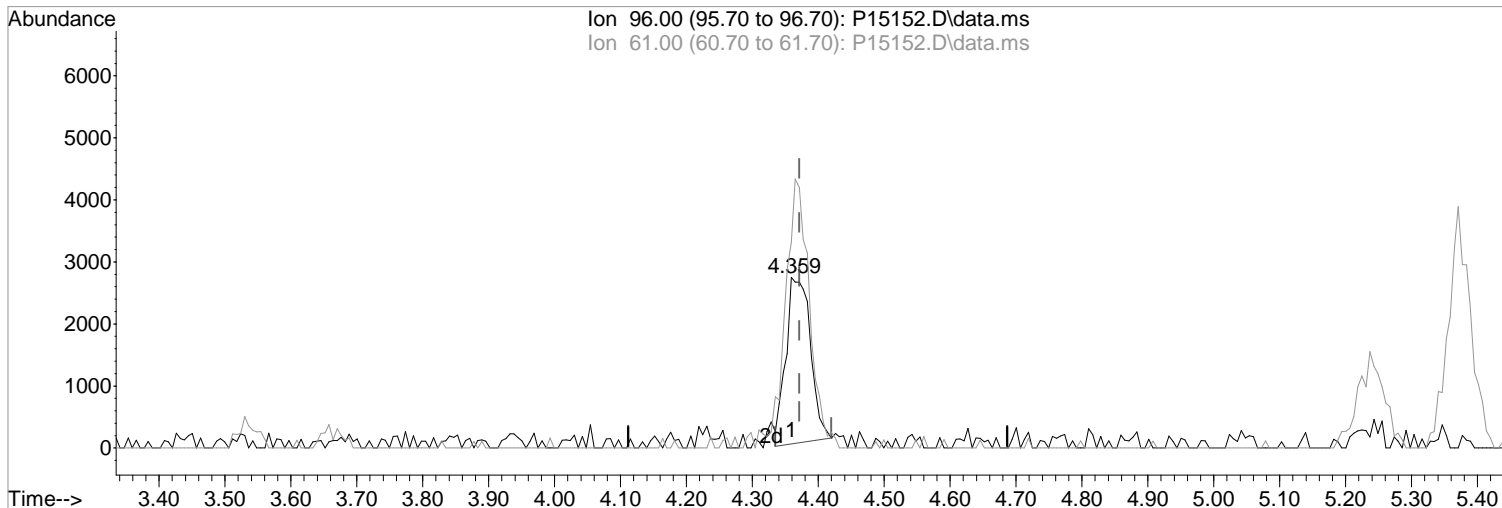
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.359min (-0.012) 1.87 ppb

response 6877

Ion Exp% Act%

96.00 100 100

61.00 142.80 120.72#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

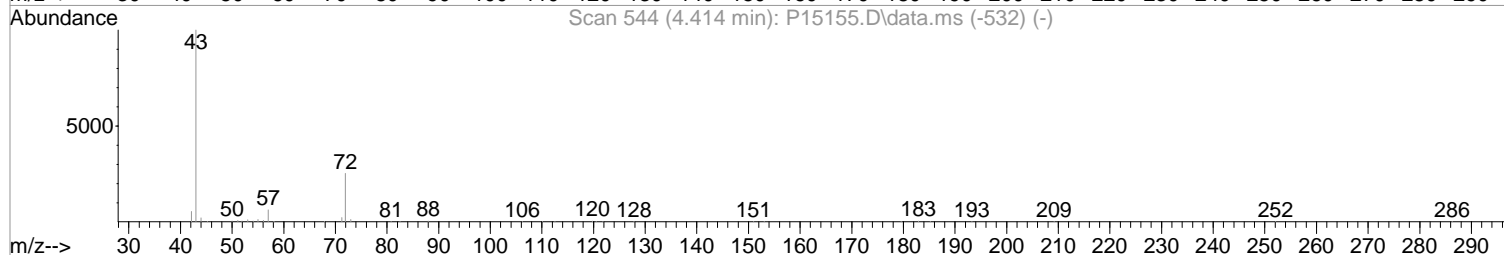
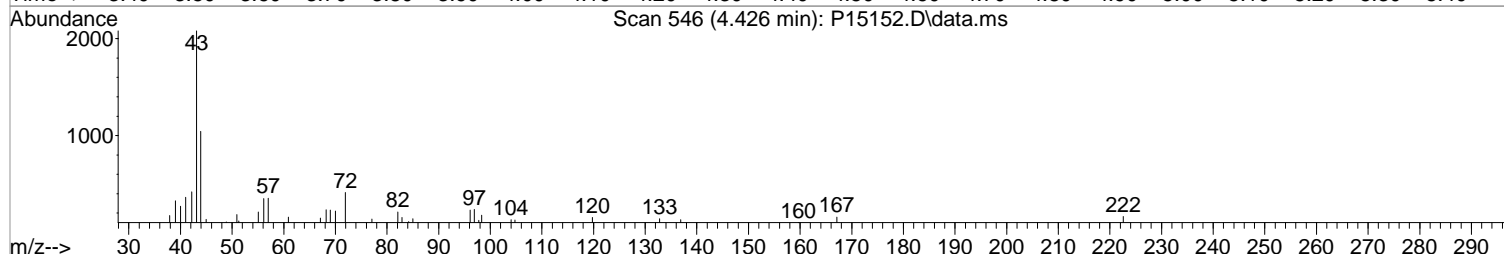
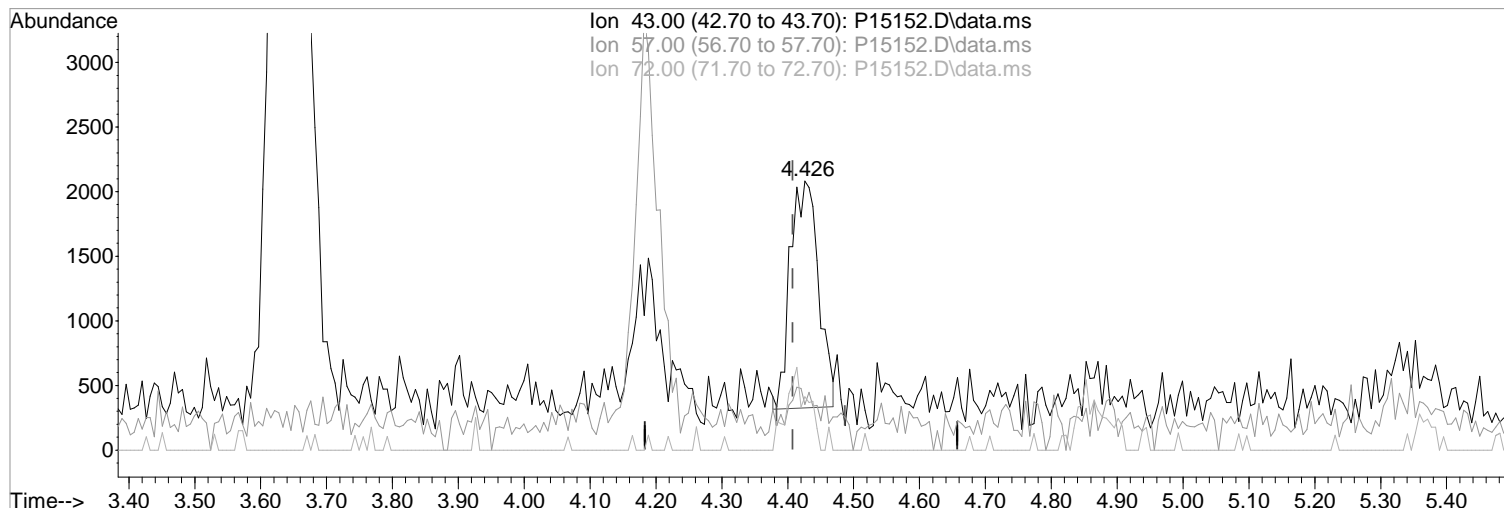
Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(35) 2-Butanone (P)

4.426min (+0.018) 2.34 ppb m

response 5215

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 57.00 | 6.70 | 17.00 |
| 72.00 | 26.10 | 19.84 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

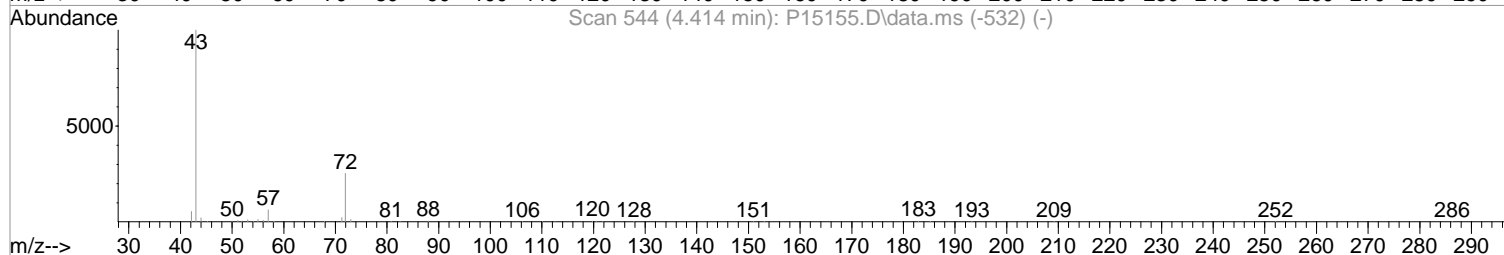
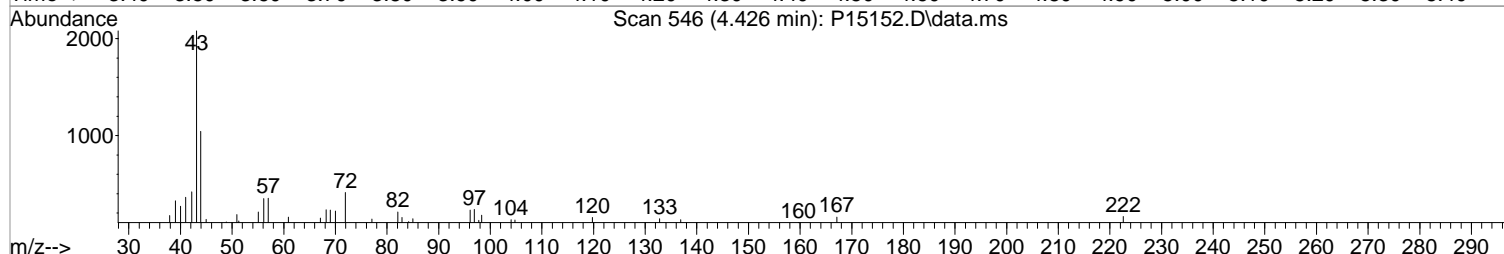
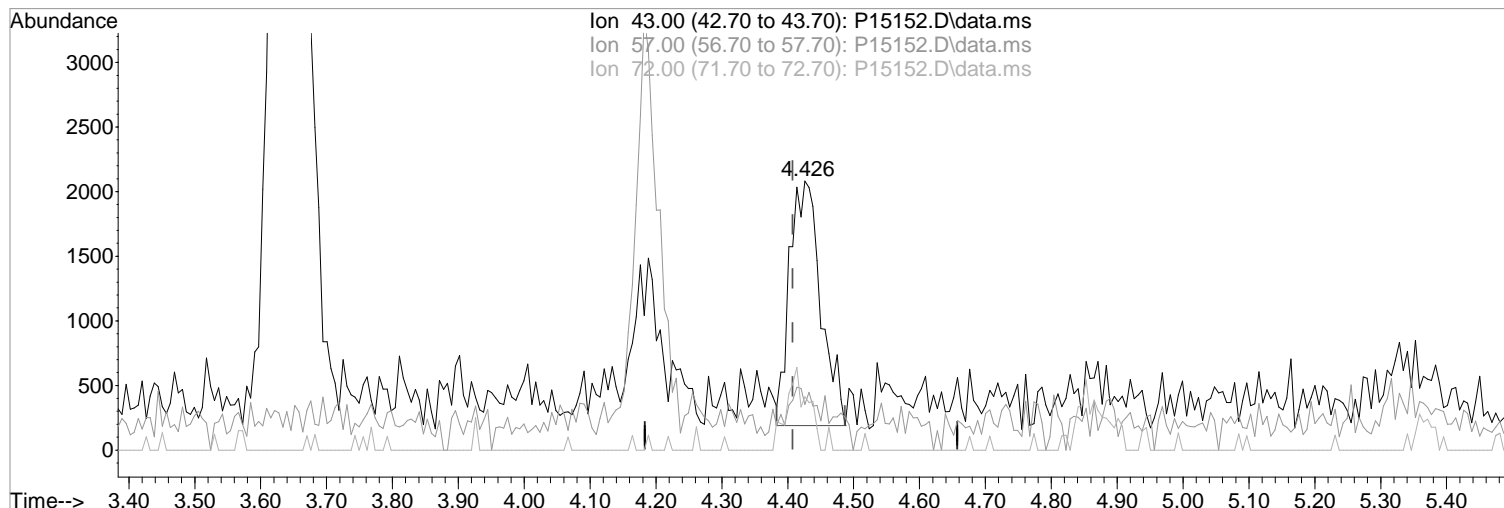
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(35) 2-Butanone (P)

Manual Integration:

4.426min (+0.018) 2.77 ppb

Before

response 6181

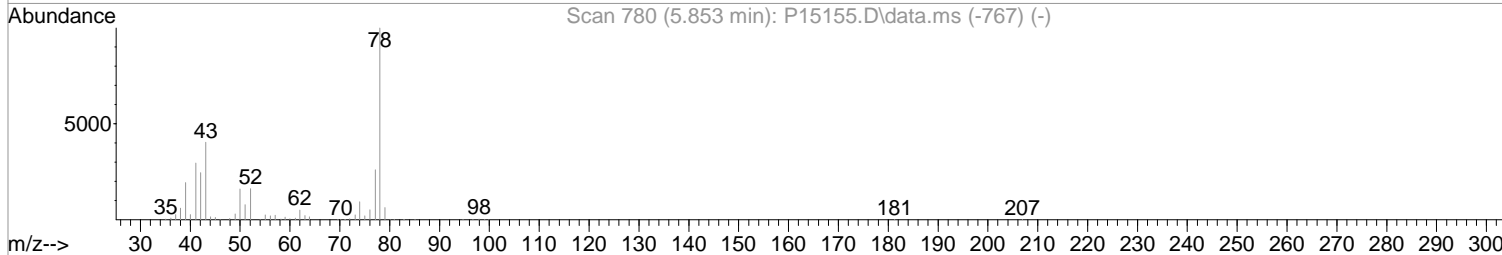
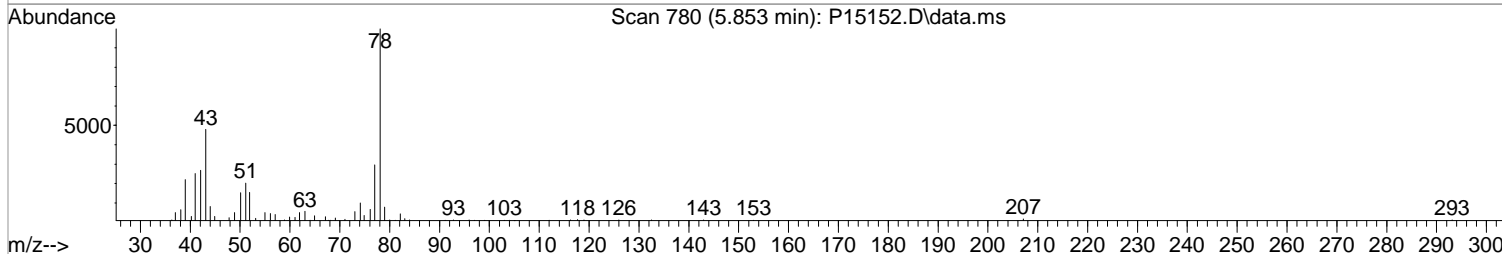
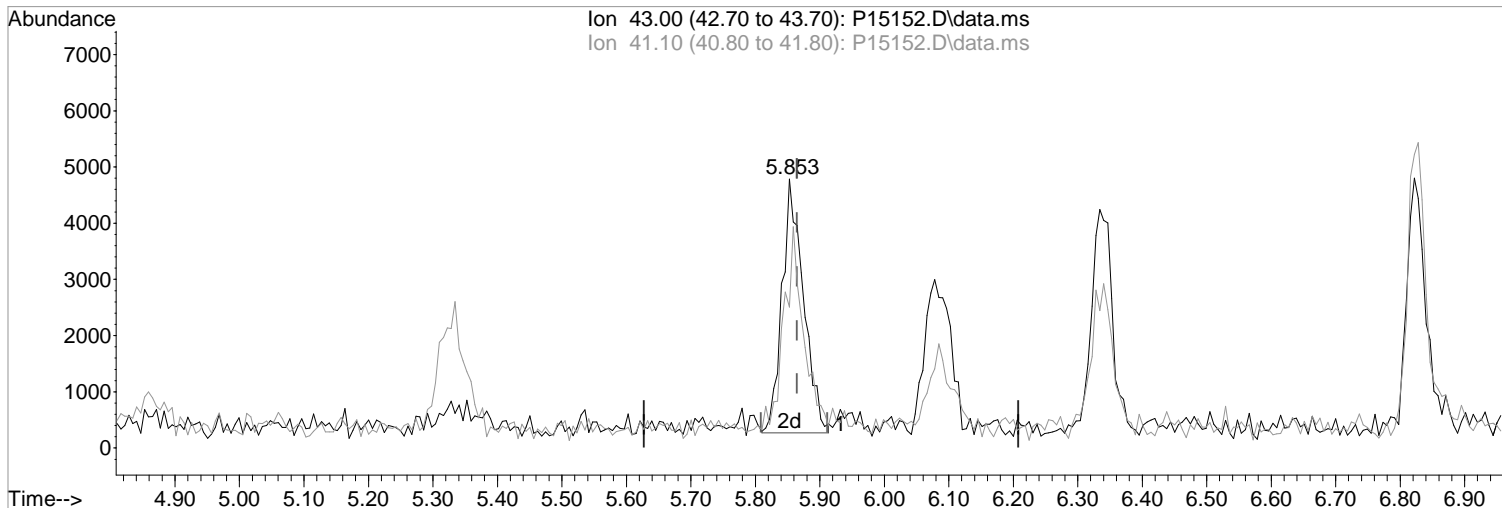
| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 57.00 | 6.70 | 17.00 |
| 72.00 | 26.10 | 19.84 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(51) Iso-Butyl Alcohol
5.853min (-0.012) 41.65 ppb m
response 10416

Manual Integration:

After

Peak not found.

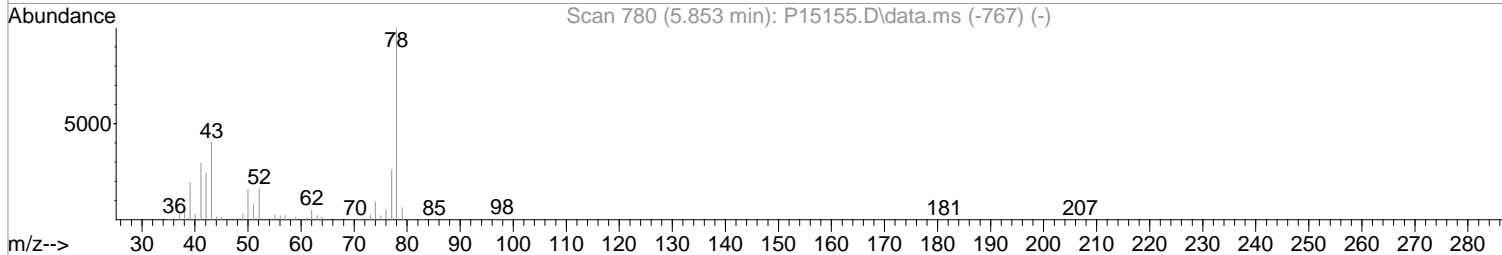
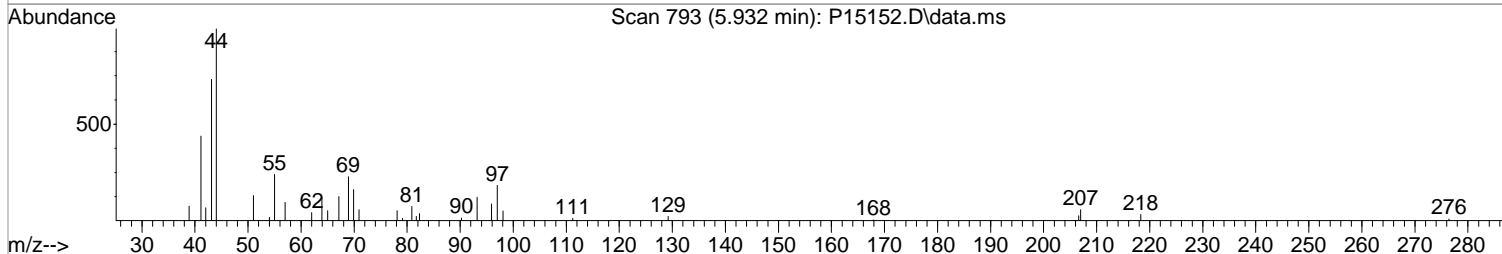
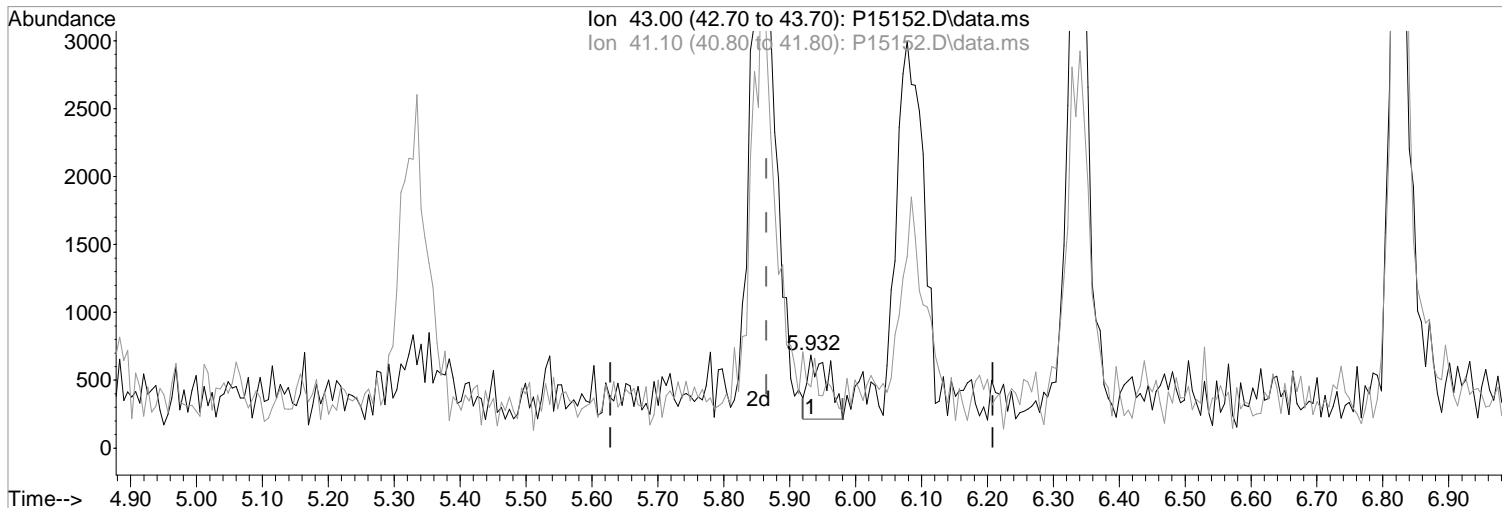
01/02/18

| Ion | Exp% | Act% |
|-------|-------|--------|
| 43.00 | 100 | 100 |
| 41.10 | 73.30 | 52.44# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(51) Iso-Butyl Alcohol
5.932min (+0.067) 4.12 ppb
response 1031

Manual Integration:
Before

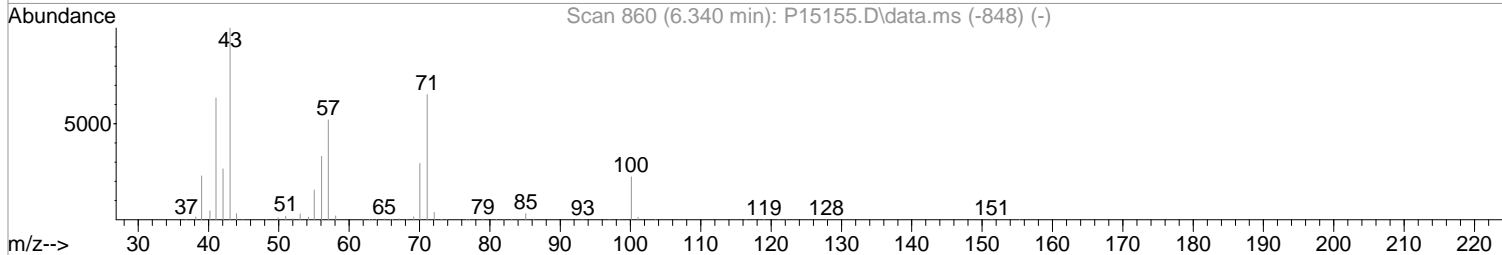
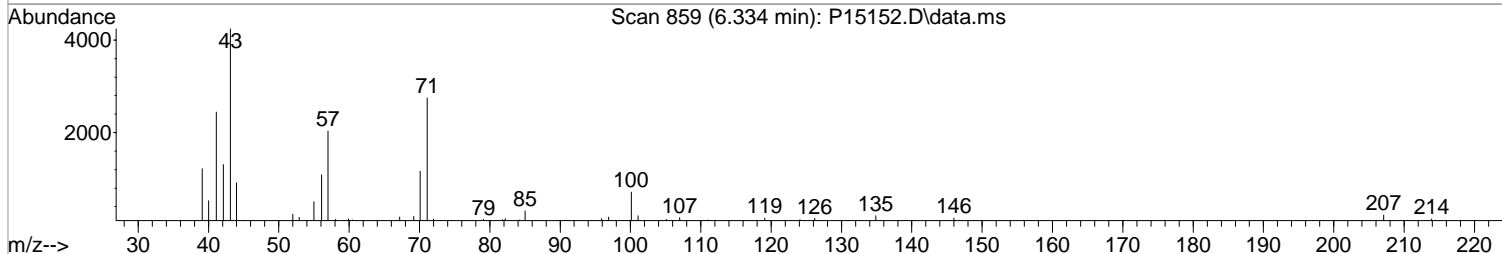
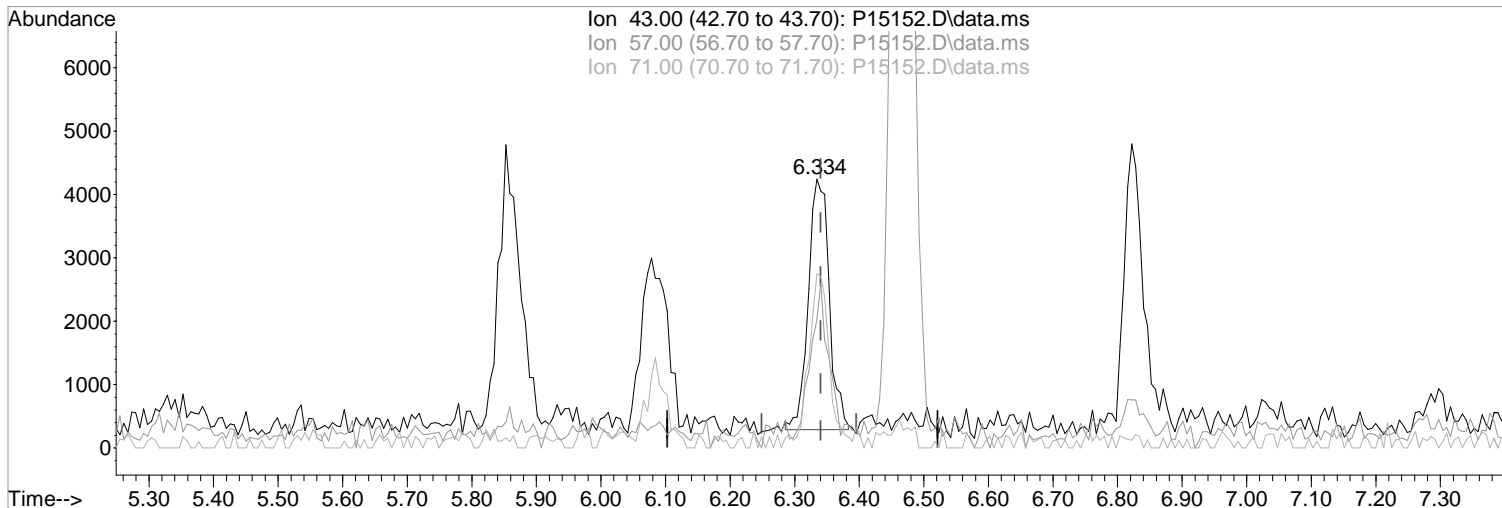
| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 41.10 | 73.30 | 65.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(52) n-Heptane
6.334min (-0.006) 2.08 ppb m
response 8868

Manual Integration:

After

Poor integration.

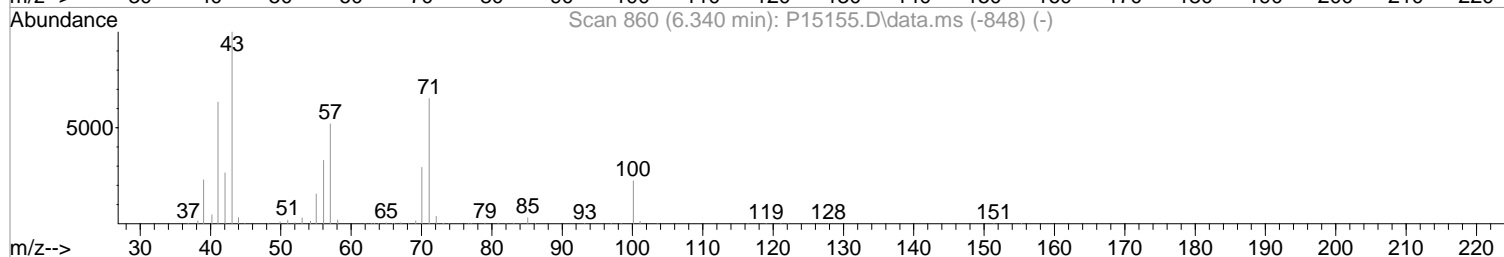
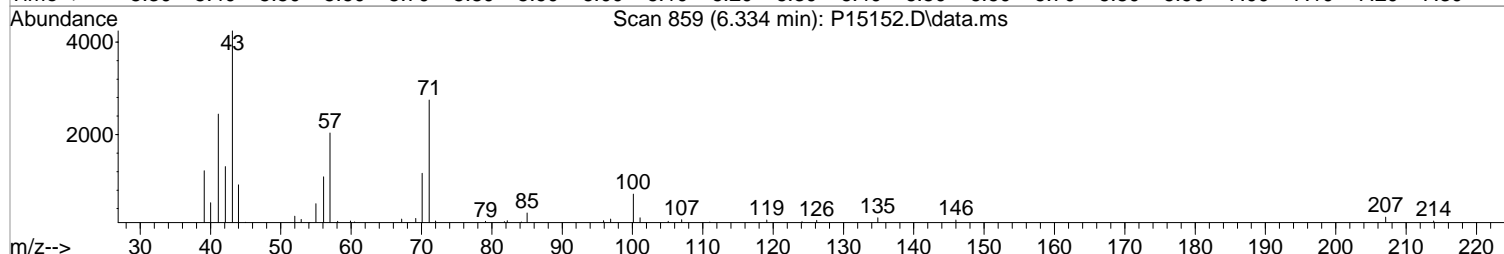
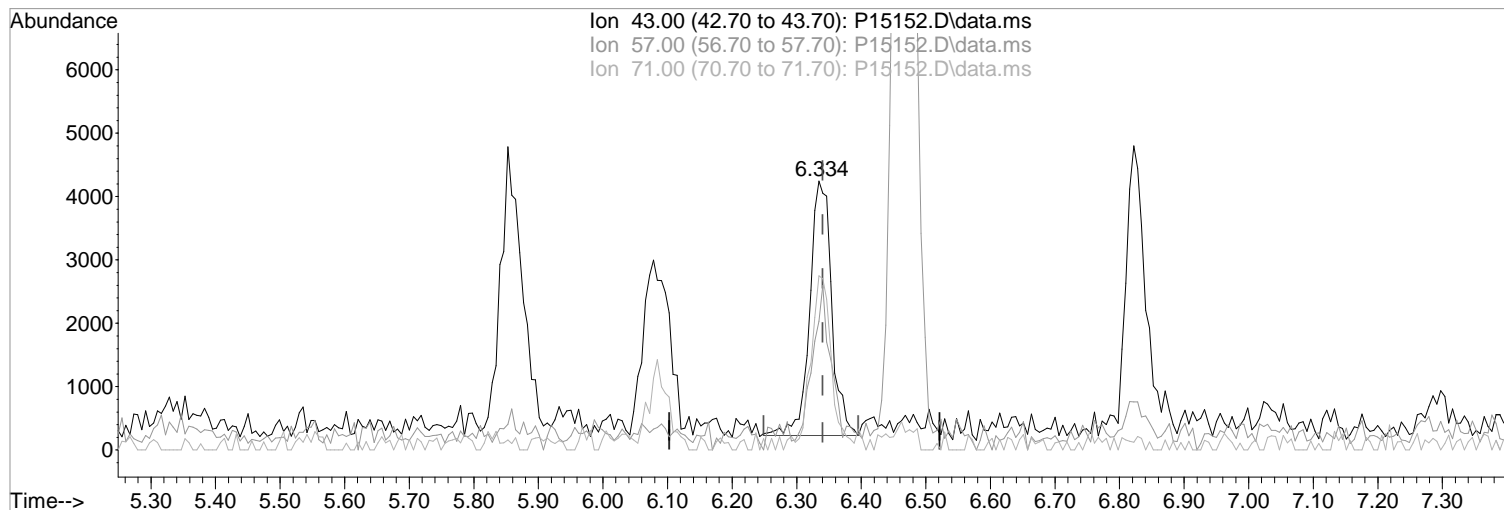
01/02/18

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 57.00 | 52.10 | 47.87 |
| 71.00 | 65.30 | 64.81 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15152.D
Acq On : 29 Dec 2017 6:06 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(52) n-Heptane

6.334min (-0.006) 2.21 ppb

response 9450

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 57.00 | 52.10 | 47.87 |
| 71.00 | 65.30 | 64.81 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15152.D
 Acq On : 29 Dec 2017 6:06 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|----------|-------|---------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.371 | 168 | 290921 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 471936 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 416493 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 202842 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 140691 | 50.21 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 100.42% | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 192694 | 50.18 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 100.36% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 616679 | 49.29 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.58% | | |
| 70) SURR2,BFB | 10.858 | 95 | 234627 | 48.47 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 96.94% | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 6164 | 1.72 | ppb | | 95 |
| 3) Chloromethane | 1.305 | 50 | 9252 | 2.09 | ppb | | 87 |
| 4) Vinyl Chloride | 1.384 | 62 | 8466 | 1.96 | ppb | | 76 |
| 5) Bromomethane | 1.610 | 94 | 7983 | 2.44 | ppb | | 92 |
| 6) Chloroethane | 1.683 | 64 | 6348 | 2.36 | ppb | | 81 |
| 7) Freon 21 | 1.835 | 67 | 10821 | 1.93 | ppb | | 88 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 8938 | 2.15 | ppb | | 92 |
| 9) Diethyl Ether | 2.116 | 59 | 6309 | 2.19 | ppb | | 90 |
| 10) Freon 123a | 2.116 | 67 | 6930 | 1.99 | ppb | | 92 |
| 11) Freon 123 | 2.170 | 83 | 7698 | 1.89 | ppb | | 94 |
| 12) Acrolein | 2.213 | 56 | 8734 | 10.15 | ppb | | 78 |
| 13) 1,1-Dicethene | 2.305 | 96 | 5689 | 1.90 | ppb | | 94 |
| 14) Freon 113 | 2.311 | 101 | 5879 | 2.08 | ppb | | 80 |
| 15) Acetone | 2.347 | 43 | 4395 | 2.49 | ppb | | 93 |
| 16) 2-Propanol | 2.475 | 45 | 14316 | 42.06 | ppb | | 97 |
| 17) Iodomethane | 2.445 | 142 | 891 | 0.33 | ppb | | 100 |
| 18) Carbon Disulfide | 2.494 | 76 | 17215 | 1.98 | ppb | | 99 |
| 19) Acetonitrile | 2.603 | 40 | 2940 | 9.82 | ppb | | 95 |
| 20) Allyl Chloride | 2.634 | 76 | 3647 | 2.29 | ppb | # | 86 |
| 21) Methyl Acetate | 2.658 | 43 | 6838 | 2.16 | ppb | | 93 |
| 22) Methylene Chloride | 2.743 | 84 | 6734 | 2.14 | ppb | | 93 |
| 23) TBA | 2.872 | 59 | 24620 | 41.97 | ppb | | 96 |
| 24) Acrylonitrile | 3.000 | 53 | 17097 | 10.04 | ppb | | 96 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 22969 | 2.14 | ppb | | 96 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 6244 | 2.00 | ppb | | 99 |
| 28) 1,1-Dicethane | 3.530 | 63 | 11380 | 2.03 | ppb | | 96 |
| 29) Vinyl Acetate | 3.627 | 86 | 1385 | 1.51 | ppb | # | 46 |
| 30) DIPE | 3.664 | 45 | 21975 | 2.06 | ppb | | 90 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 10830 | 2.00 | ppb | | 90 |
| 32) ETBE | 4.194 | 59 | 22402 | 2.08 | ppb | | 100 |
| 33) 2,2-Dichloropropane | 4.359 | 77 | 10714m | 2.15 | ppb | | |
| 34) cis-1,2-Dichloroethene | 4.359 | 96 | 7407m | 2.01 | ppb | | |
| 35) 2-Butanone | 4.426 | 43 | 5215m | 2.34 | ppb | | |
| 36) Propionitrile | 4.493 | 54 | 7461 | 10.31 | ppb | | 75 |
| 37) Bromochloromethane | 4.767 | 130 | 4174 | 2.06 | ppb | | 88 |
| 38) Methacrylonitrile | 4.767 | 67 | 3561 | 1.90 | ppb | | 97 |
| 39) Tetrahydrofuran | 4.871 | 42 | 2476 | 1.90 | ppb | | 69 |
| 40) Chloroform | 4.938 | 83 | 12891 | 2.12 | ppb | | 94 |
| 41) 1,1,1-Trichloroethane | 5.237 | 97 | 9664 | 2.02 | ppb | | 94 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15152.D
 Acq On : 29 Dec 2017 6:06 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 42) TAME | 6.084 | 73 | 21979 | 2.09 | ppb | 94 |
| 44) Cyclohexane | 5.334 | 41 | 6707 | 2.18 | ppb | 99 |
| 46) Carbontetrachloride | 5.517 | 117 | 7282 | 2.06 | ppb | 83 |
| 47) 1,1-Dichloropropene | 5.530 | 75 | 9048 | 2.18 | ppb | 85 |
| 49) Benzene | 5.847 | 78 | 25719 | 2.09 | ppb | 98 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 9372 | 2.07 | ppb | 96 |
| 51) Iso-Butyl Alcohol | 5.853 | 43 | 10416m | 41.65 | ppb | |
| 52) n-Heptane | 6.334 | 43 | 8868m | 2.08 | ppb | |
| 53) 1-Butanol | 6.828 | 56 | 17334 | 104.77 | ppb | 94 |
| 54) Trichloroethene | 6.798 | 130 | 5834 | 1.85 | ppb | # 71 |
| 55) Methylcyclohexane | 7.035 | 55 | 8960 | 2.18 | ppb | # 80 |
| 56) 1,2-Diclpropane | 7.072 | 63 | 7144 | 2.17 | ppb | 93 |
| 57) Dibromomethane | 7.218 | 93 | 4230 | 2.15 | ppb | 98 |
| 58) 1,4-Dioxane | 7.279 | 88 | 2348 | 36.17 | ppb | 91 |
| 59) Methyl Methacrylate | 7.310 | 69 | 5422 | 1.79 | ppb | 94 |
| 60) Bromodichloromethane | 7.444 | 83 | 8837 | 2.12 | ppb | 92 |
| 61) 2-Nitropropane | 7.730 | 41 | 6265 | 4.94 | ppb | 92 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 1336 | 1.79 | ppb | 74 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 9647 | 1.85 | ppb | 96 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 8444 | 2.10 | ppb | 87 |
| 66) Toluene | 8.364 | 91 | 28677 | 2.14 | ppb | 97 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 9847 | 2.02 | ppb | 93 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 9763 | 1.99 | ppb | 96 |
| 69) 1,1,2-Trichloroethane | 8.815 | 97 | 6436 | 2.12 | ppb | 84 |
| 72) Tetrachloroethene | 8.956 | 164 | 4879 | 2.12 | ppb | # 88 |
| 73) 2-Hexanone | 9.114 | 43 | 6125 | 2.00 | ppb | 100 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 11726 | 2.19 | ppb | 99 |
| 75) Dibromochloromethane | 9.218 | 129 | 5554 | 1.99 | ppb | 96 |
| 76) N-Butyl Acetate | 9.267 | 43 | 11696 | 2.03 | ppb | 91 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 5958 | 2.01 | ppb | 90 |
| 78) Chlorobenzene | 9.809 | 112 | 16904 | 2.07 | ppb | 95 |
| 79) 3-CBTF | 9.827 | 180 | 8895 | 2.04 | ppb | 96 |
| 80) 4-CBTF | 9.882 | 180 | 8674 | 2.18 | ppb | 94 |
| 81) 1,1,1,2-Tetrachloroethane | 9.895 | 131 | 5961 | 2.06 | ppb | 96 |
| 82) Ethylbenzene | 9.931 | 106 | 9782 | 2.17 | ppb | 99 |
| 83) (m+p)Xylene | 10.041 | 106 | 23814 | 4.37 | ppb | 91 |
| 84) o-Xylene | 10.401 | 106 | 11433 | 2.09 | ppb | 96 |
| 85) Styrene | 10.413 | 104 | 18180 | 1.98 | ppb | 96 |
| 87) Bromoform | 10.565 | 173 | 3828 | 2.16 | ppb | 85 |
| 88) 2-CBTF | 10.644 | 180 | 9285 | 2.31 | ppb | # 94 |
| 89) Isopropylbenzene | 10.736 | 105 | 28652 | 2.15 | ppb | 93 |
| 90) Cyclohexanone | 10.797 | 55 | 45829 | 45.20 | ppb | 96 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 2048 | 1.94 | ppb | 84 |
| 92) 1,1,2,2-Tetrachloroethane | 10.992 | 83 | 7917 | 1.97 | ppb | 89 |
| 93) Bromobenzene | 10.980 | 156 | 7311 | 2.24 | ppb | 94 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 2631 | 2.01 | ppb | # 87 |
| 95) n-Propylbenzene | 11.095 | 91 | 32706 | 2.11 | ppb | 95 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 20465 | 2.13 | ppb | 95 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 23266 | 2.30 | ppb | 97 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 24143 | 2.17 | ppb | 98 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 23960 | 2.15 | ppb | 94 |
| 100) tert-Butylbenzene | 11.516 | 119 | 21124 | 2.20 | ppb | 95 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 25245 | 2.26 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 7094 | 2.21 | ppb | 93 |
| 103) sec-Butylbenzene | 11.705 | 105 | 29905 | 2.11 | ppb | 96 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 26248 | 2.20 | ppb | 98 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15152.D
 Acq On : 29 Dec 2017 6:06 pm
 Operator : K.Ruest
 Sample : 2.0ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 02 11:27:18 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

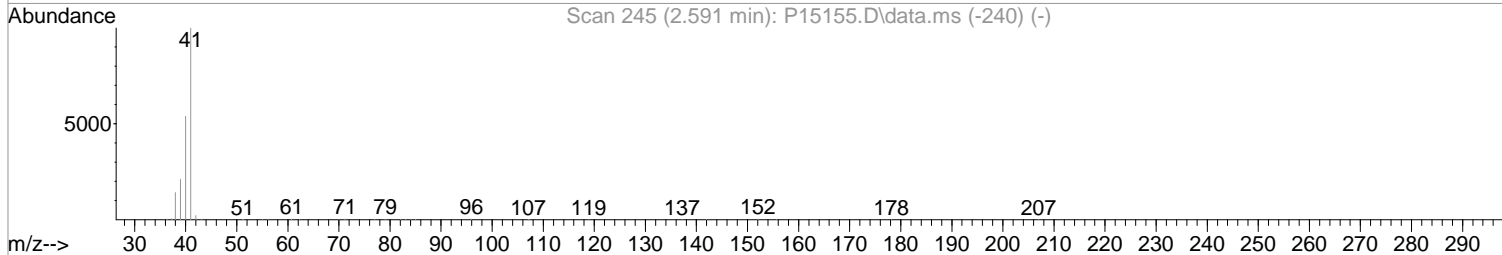
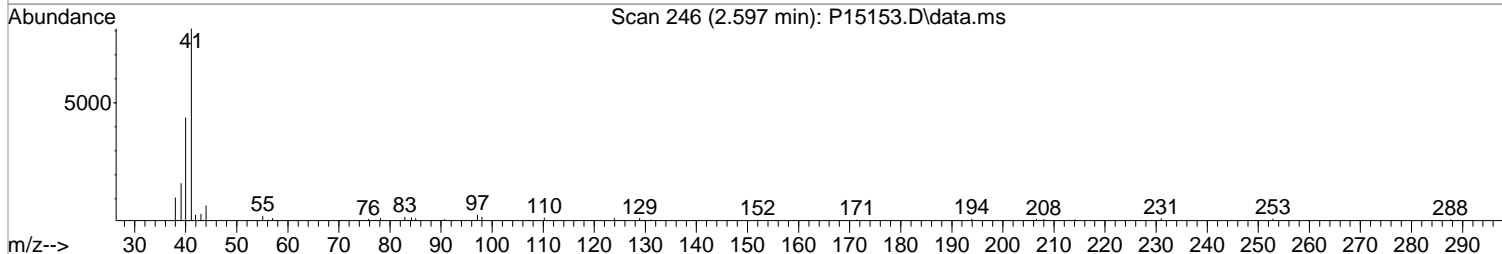
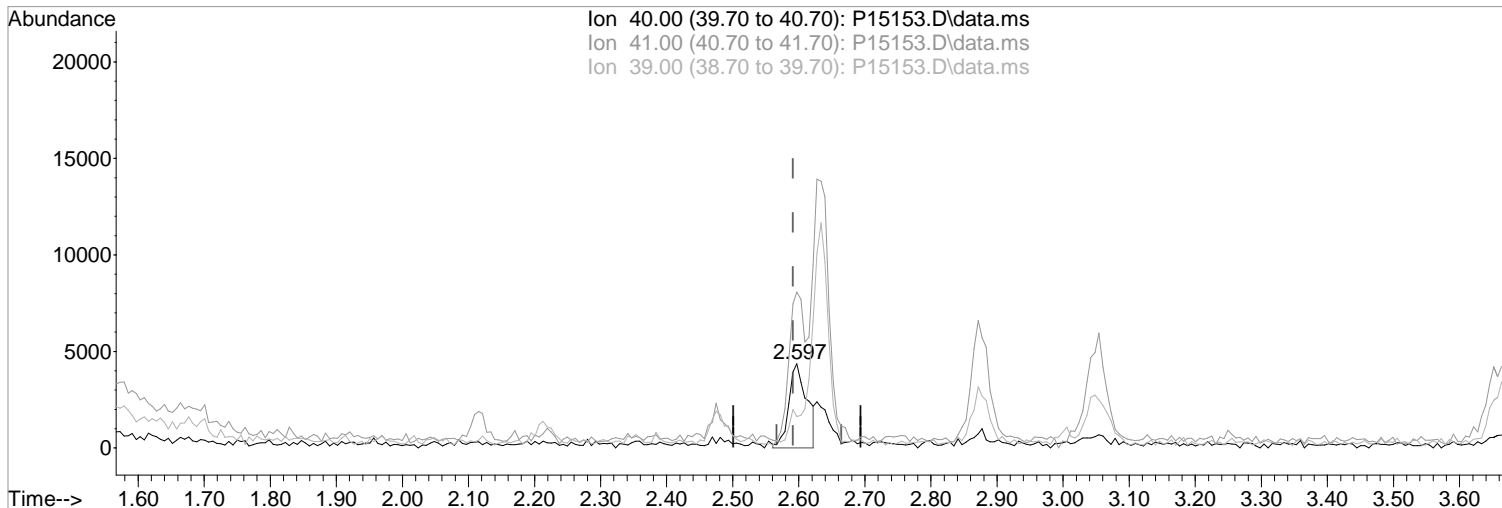
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 12674 | 2.04 | ppb | 98 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 13809 | 2.12 | ppb | 93 |
| 107) 2,4-DCBTF | 11.912 | 214 | 6322 | 2.13 | ppb # | 80 |
| 108) 2,5-DCBTF | 11.949 | 214 | 7133 | 2.24 | ppb | 88 |
| 109) n-Butylbenzene | 12.156 | 91 | 22604 | 2.03 | ppb | 98 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 12688 | 2.05 | ppb | 97 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 2165 | 2.14 | ppb | 95 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 37014 | 6.08 | ppb | 94 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 10137 | 2.10 | ppb | 91 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 25573 | 3.96 | ppb | 96 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 9011 | 2.00 | ppb | 99 |
| 116) Hexachlorobt | 13.577 | 225 | 4926 | 2.36 | ppb | 88 |
| 117) Naphthalen | 13.626 | 128 | 24217 | 1.95 | ppb | 98 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 9296 | 2.13 | ppb | 90 |
| 119) 2,4,5-Trichlorotolene | 14.406 | 159 | 3689 | 1.39 | ppb # | 91 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 3383 | 1.40 | ppb # | 86 |

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

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15153.D
Acq On : 29 Dec 2017 6:28 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15153.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 28.53 ppb m
response 8323

Manual Integration:
After
Poor integration.

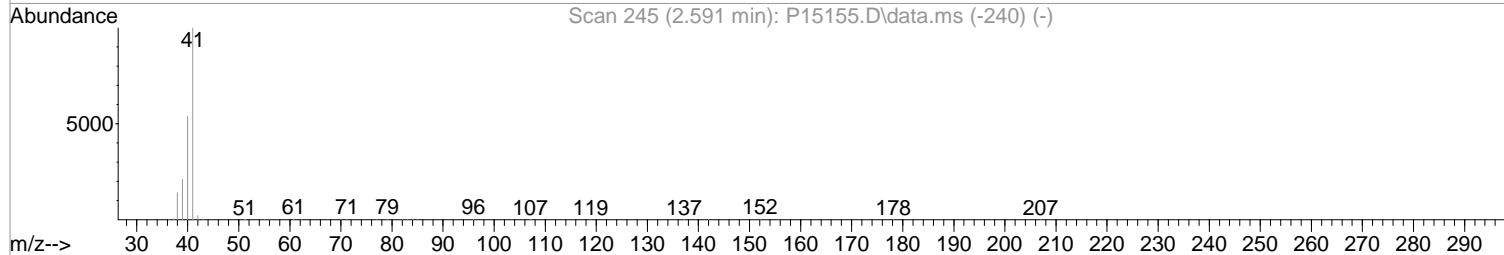
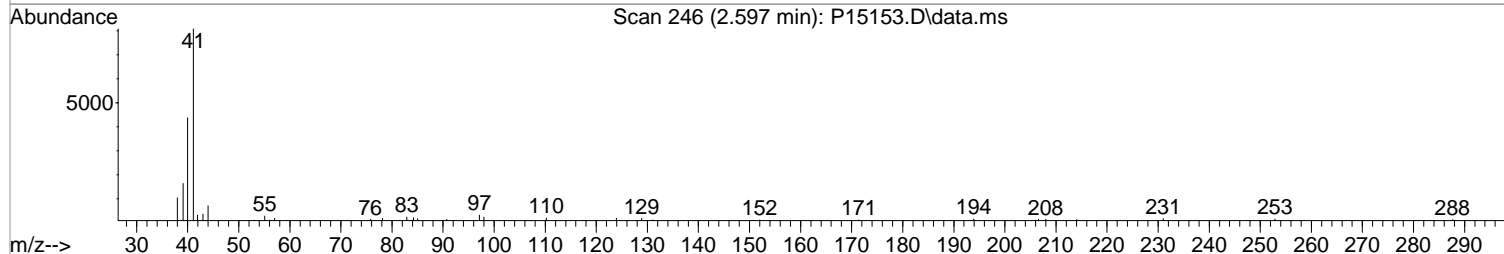
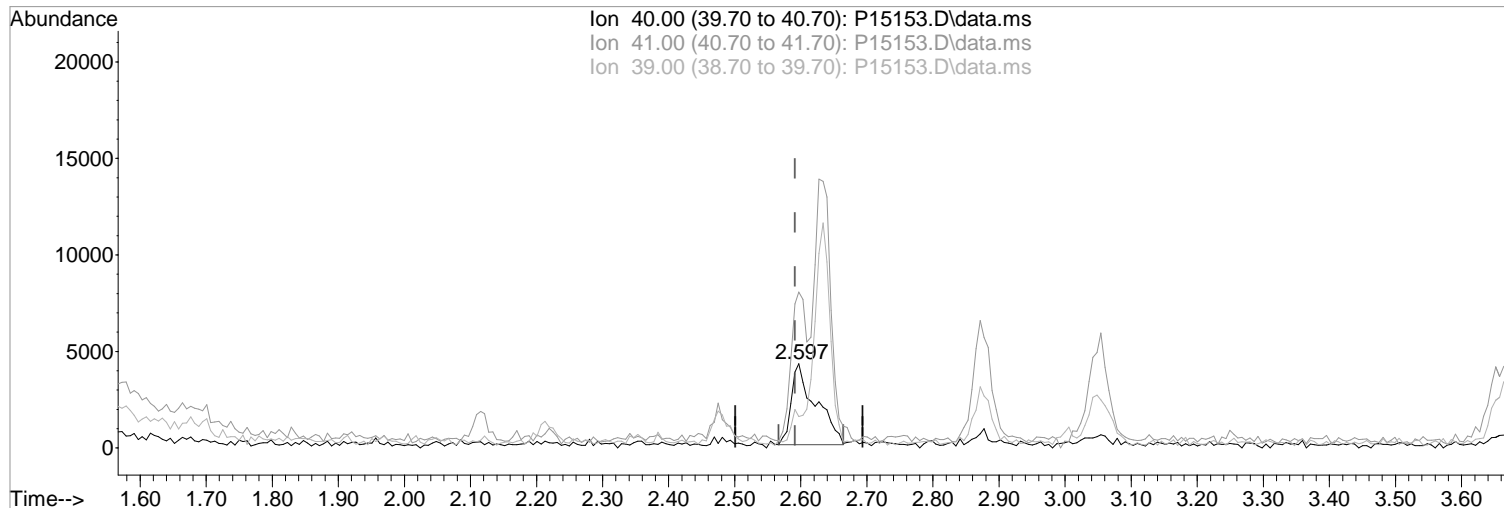
| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 184.90 |
| 39.00 | 40.10 | 37.44 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15153.D
Acq On : 29 Dec 2017 6:28 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15153.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 36.98 ppb
response 10787

Manual Integration:
Before

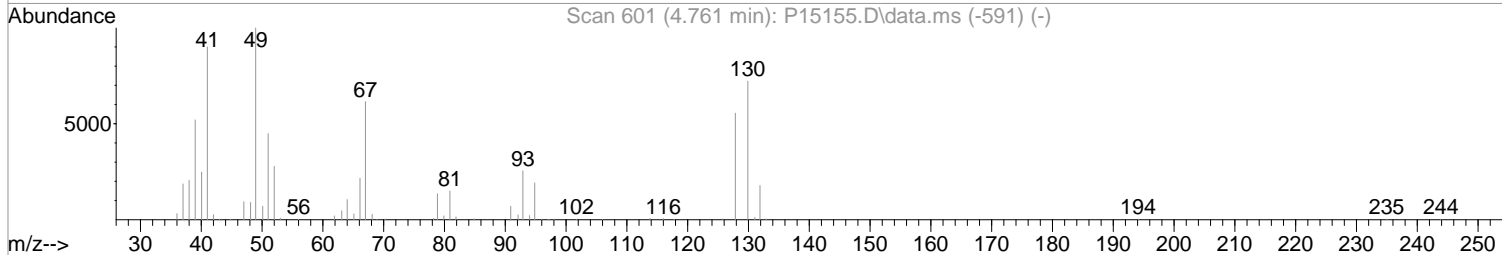
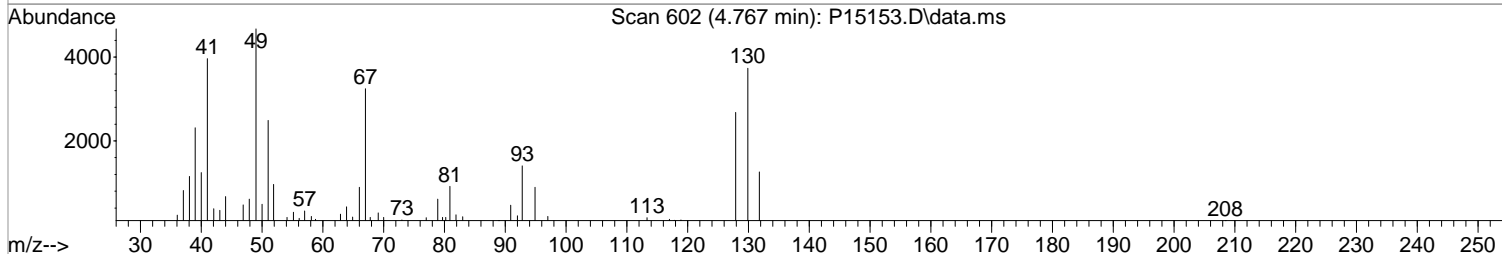
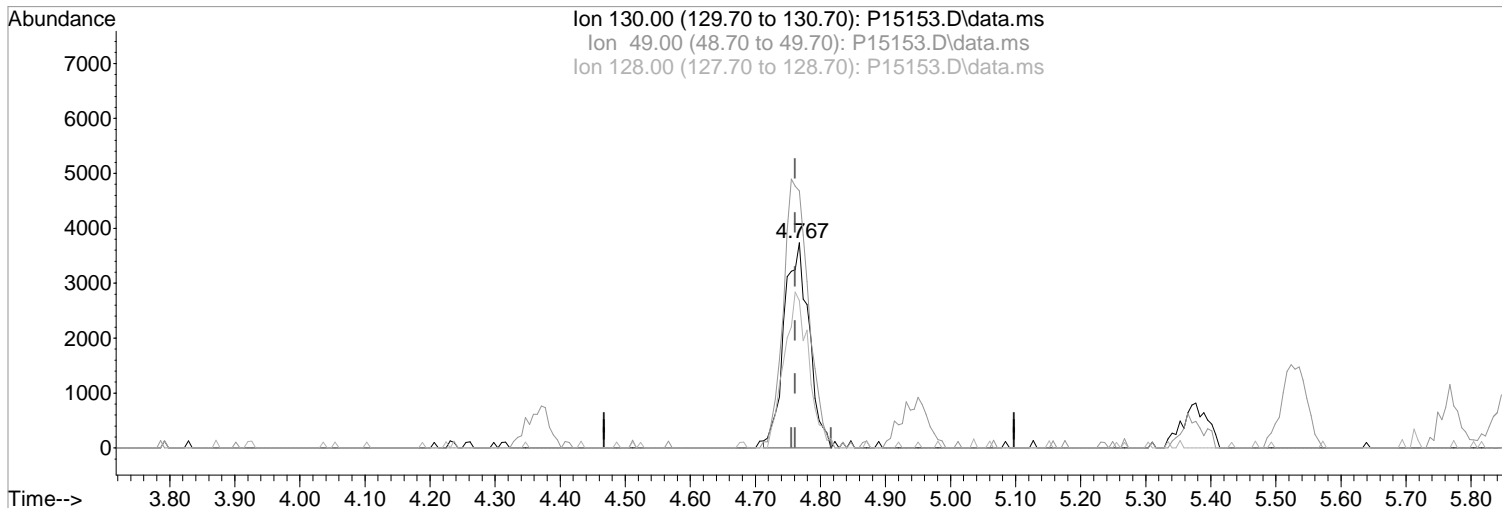
| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 184.90 |
| 39.00 | 40.10 | 37.44 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15153.D
Acq On : 29 Dec 2017 6:28 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



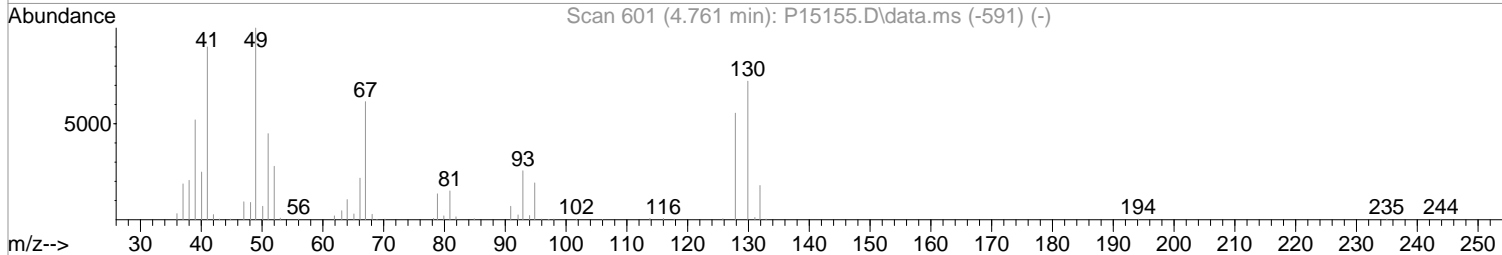
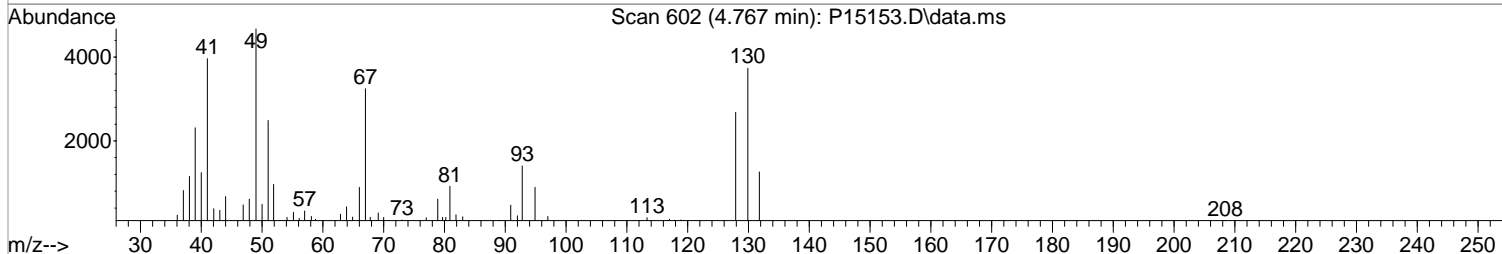
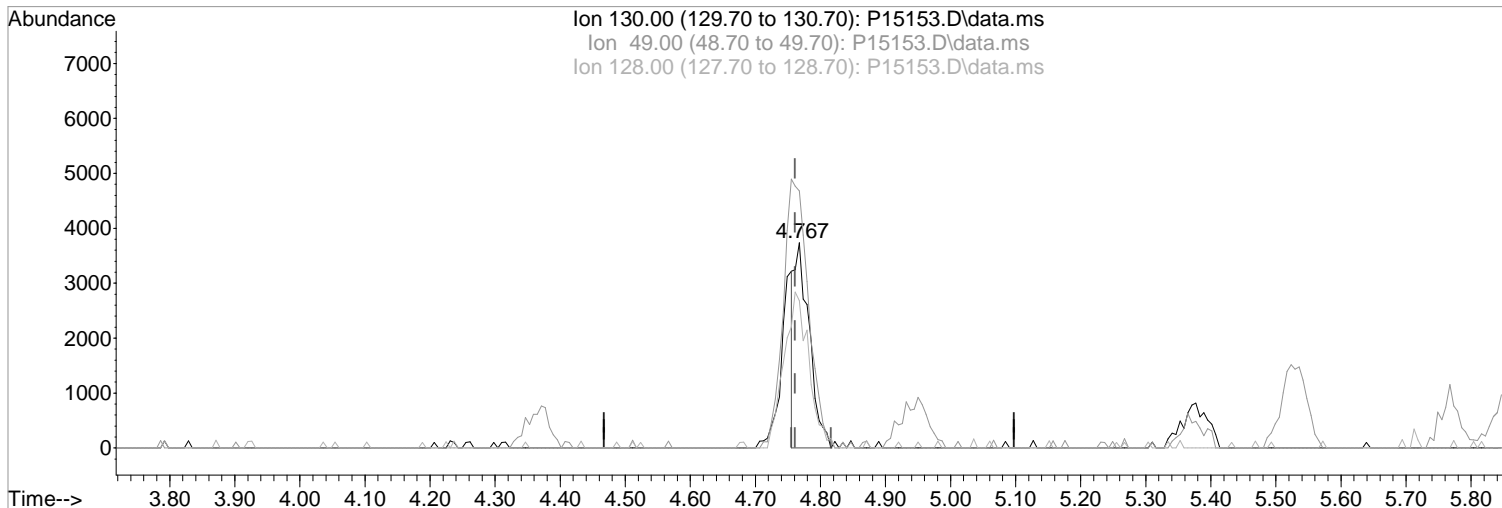
(37) Bromochloromethane
4.767min (+0.006) 5.02 ppb m
response 9891
Ion Exp% Act%
130.00 100 100
49.00 139.00 125.22
128.00 77.10 71.83
0.00 0.00 0.00

Manual Integration:
After
Split Peak
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15153.D
Acq On : 29 Dec 2017 6:28 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15153.D\data.ms

(37) Bromochloromethane

4.767min (+0.006) 3.03 ppb

response 5965

Ion Exp% Act%

| | | |
|--------|--------|--------|
| 130.00 | 100 | 100 |
| 49.00 | 139.00 | 125.22 |
| 128.00 | 77.10 | 71.83 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

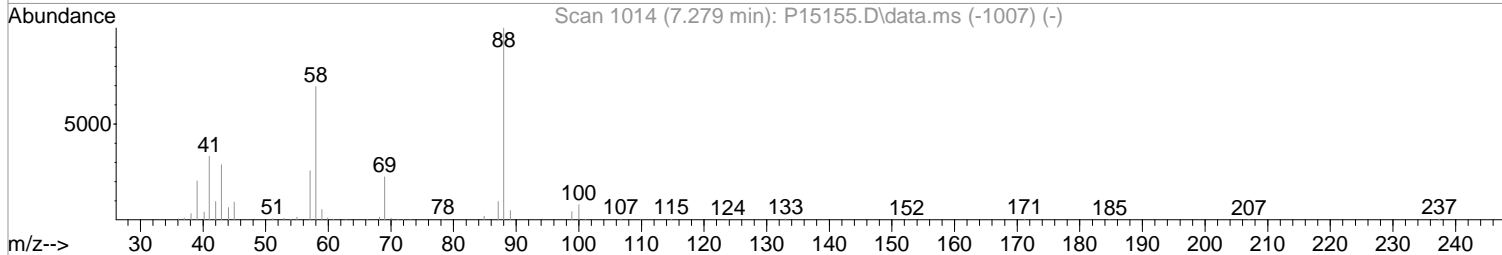
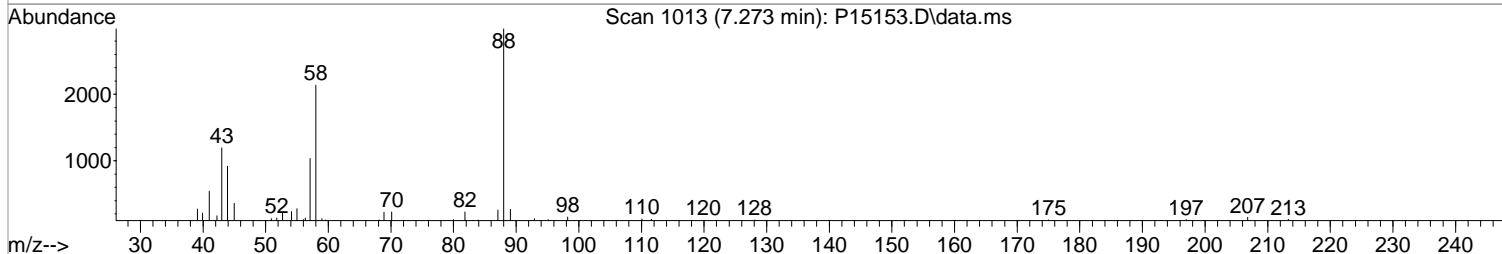
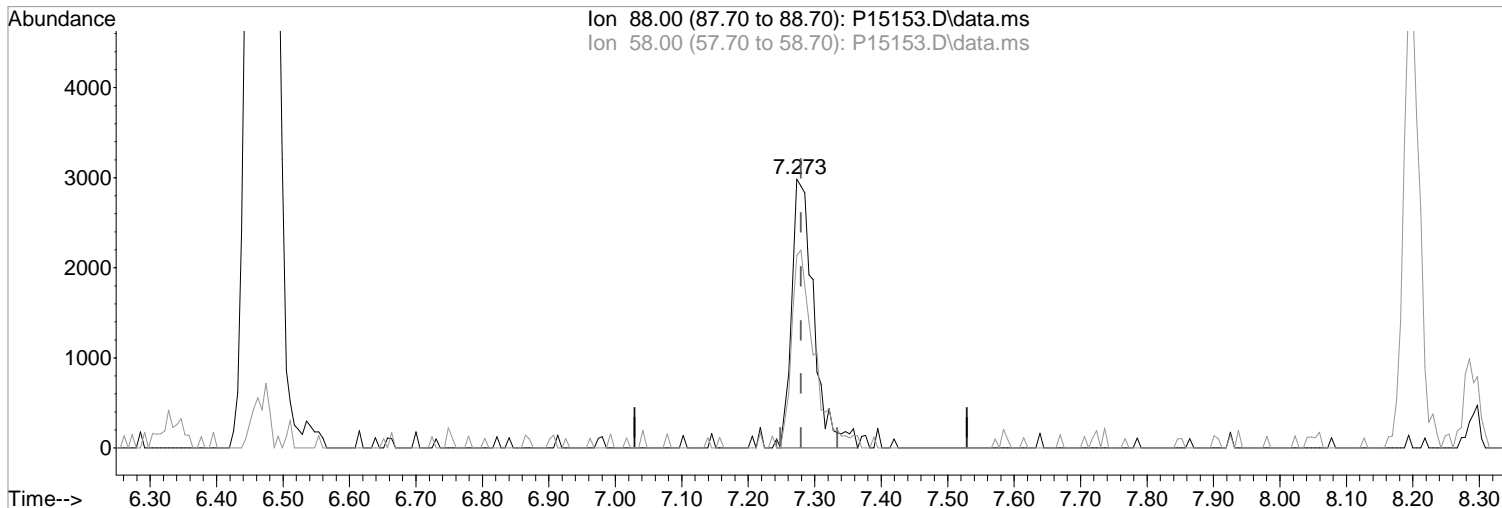
Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15153.D
Acq On : 29 Dec 2017 6:28 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(58) 1,4-Dioxane
7.273min (-0.006) 108.11 ppb m
response 6912

Manual Integration:

After

Poor integration.

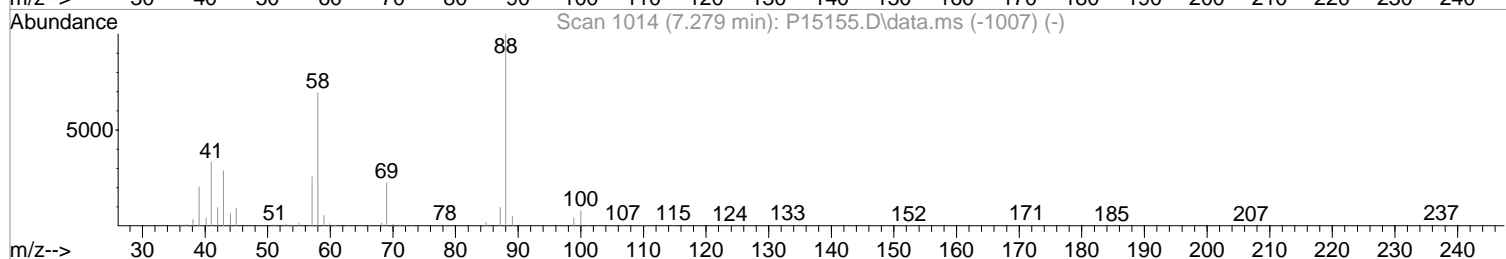
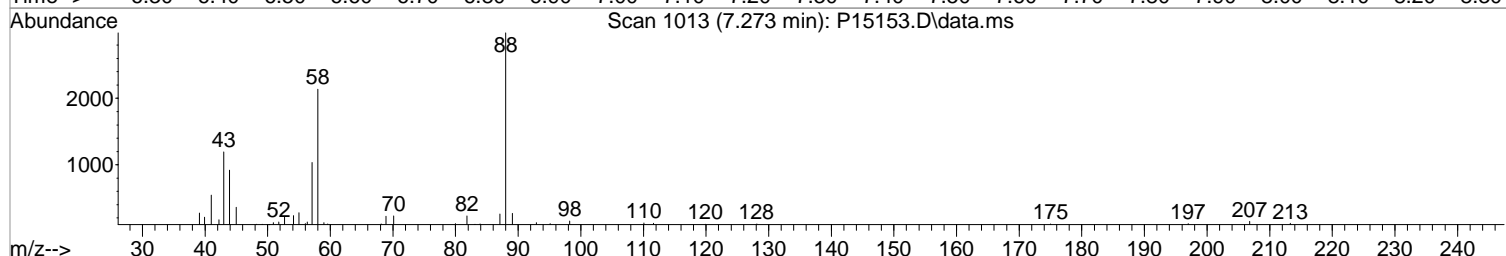
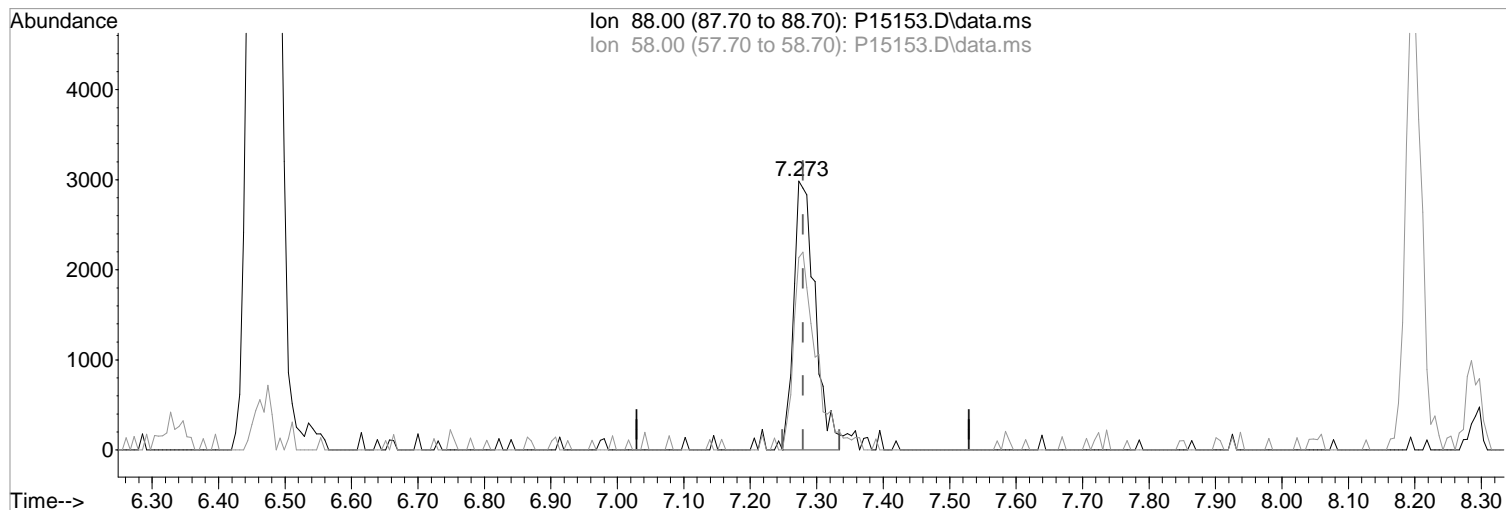
01/02/18

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 70.00 | 71.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15153.D
Acq On : 29 Dec 2017 6:28 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15153.D\data.ms

(58) 1,4-Dioxane
7.273min (-0.006) 104.03 ppb
response 6651

Manual Integration:

Before

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 70.00 | 71.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15153.D
 Acq On : 29 Dec 2017 6:28 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 283392 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 464816 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 405388 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 203033 | 50.00 | ppb | 0.00 |

| | | | | | | |
|-------------------------------|--------|-------|----------|----------|-----|---------|
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.225 | 113 | 31481 | 11.41 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 22.82%# |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 43811 | 11.58 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 23.16%# |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 146183 | 11.86 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 23.72%# |
| 70) SURR2,BFB | 10.858 | 95 | 55730 | 11.69 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 23.38%# |

| | | | | | | |
|------------------------------|-------|-----|-------|--------|-----|--------|
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 14887 | 4.26 | ppb | 96 |
| 3) Chloromethane | 1.305 | 50 | 19472 | 4.52 | ppb | 97 |
| 4) Vinyl Chloride | 1.384 | 62 | 21225 | 5.06 | ppb | 92 |
| 5) Bromomethane | 1.609 | 94 | 19391 | 6.08 | ppb | 99 |
| 6) Chloroethane | 1.689 | 64 | 13123 | 5.01 | ppb | 88 |
| 7) Freon 21 | 1.835 | 67 | 26792 | 4.91 | ppb | 95 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 20344 | 5.03 | ppb | 96 |
| 9) Diethyl Ether | 2.115 | 59 | 14851 | 5.29 | ppb | 91 |
| 10) Freon 123a | 2.122 | 67 | 17126 | 5.05 | ppb | 97 |
| 11) Freon 123 | 2.170 | 83 | 20299 | 5.12 | ppb | 96 |
| 12) Acrolein | 2.219 | 56 | 21665 | 25.86 | ppb | 87 |
| 13) 1,1-Dicethene | 2.304 | 96 | 14844 | 5.10 | ppb | 93 |
| 14) Freon 113 | 2.311 | 101 | 13449 | 4.89 | ppb | 93 |
| 15) Acetone | 2.347 | 43 | 9058 | 5.26 | ppb | 96 |
| 16) 2-Propanol | 2.475 | 45 | 32422 | 97.79 | ppb | 96 |
| 17) Iodomethane | 2.445 | 142 | 2790 | 1.06 | ppb | 89 |
| 18) Carbon Disulfide | 2.499 | 76 | 42597 | 5.02 | ppb | 99 |
| 19) Acetonitrile | 2.597 | 40 | 8323m | 28.53 | ppb | |
| 20) Allyl Chloride | 2.634 | 76 | 8487 | 5.47 | ppb | 89 |
| 21) Methyl Acetate | 2.658 | 43 | 15122 | 4.90 | ppb | 95 |
| 22) Methylene Chloride | 2.749 | 84 | 15458 | 5.03 | ppb | # 82 |
| 23) TBA | 2.877 | 59 | 60237 | 105.40 | ppb | 100 |
| 24) Acrylonitrile | 2.999 | 53 | 43295 | 26.10 | ppb | 96 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 52999 | 5.08 | ppb | 98 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 15100 | 4.98 | ppb | 98 |
| 28) 1,1-Dicethane | 3.536 | 63 | 26838 | 4.92 | ppb | 96 |
| 29) Vinyl Acetate | 3.627 | 86 | 4036 | 4.51 | ppb | # 93 |
| 30) DIPE | 3.658 | 45 | 52453 | 5.05 | ppb | 88 |
| 31) 2-Chloro-1,3-Butadiene | 3.664 | 53 | 26425 | 5.01 | ppb | 83 |
| 32) ETBE | 4.188 | 59 | 53172 | 5.07 | ppb | 98 |
| 33) 2,2-Dichloropropane | 4.359 | 77 | 23967 | 4.94 | ppb | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 18079 | 5.03 | ppb | 98 |
| 35) 2-Butanone | 4.420 | 43 | 11921 | 5.49 | ppb | 90 |
| 36) Propionitrile | 4.493 | 54 | 18077 | 25.64 | ppb | 86 |
| 37) Bromochloromethane | 4.767 | 130 | 9891m | 5.02 | ppb | |
| 38) Methacrylonitrile | 4.767 | 67 | 8723 | 4.78 | ppb | # 80 |
| 39) Tetrahydrofuran | 4.859 | 42 | 6134 | 4.84 | ppb | 98 |
| 40) Chloroform | 4.950 | 83 | 29677 | 5.01 | ppb | 93 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 23417 | 5.04 | ppb | 100 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15153.D
 Acq On : 29 Dec 2017 6:28 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 42) TAME | 6.084 | 73 | 52164 | 5.10 | ppb | 97 |
| 44) Cyclohexane | 5.322 | 41 | 14483 | 4.79 | ppb | 92 |
| 46) Carbontetrachloride | 5.523 | 117 | 18447 | 5.29 | ppb | 90 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 21281 | 5.20 | ppb | 94 |
| 49) Benzene | 5.846 | 78 | 61250 | 5.04 | ppb | 98 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 22893 | 5.13 | ppb | 97 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 23860 | 96.86 | ppb | 91 |
| 52) n-Heptane | 6.340 | 43 | 22156 | 5.27 | ppb | 96 |
| 53) 1-Butanol | 6.822 | 56 | 40479 | 248.41 | ppb | 90 |
| 54) Trichloroethene | 6.797 | 130 | 15019 | 4.82 | ppb | # 88 |
| 55) Methylcyclohexane | 7.035 | 55 | 21785 | 5.38 | ppb | 92 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 15535 | 4.80 | ppb | 100 |
| 57) Dibromomethane | 7.218 | 93 | 9298 | 4.81 | ppb | 91 |
| 58) 1,4-Dioxane | 7.273 | 88 | 6912m | 108.11 | ppb | |
| 59) Methyl Methacrylate | 7.303 | 69 | 14282 | 4.79 | ppb | 95 |
| 60) Bromodichloromethane | 7.444 | 83 | 20116 | 4.90 | ppb | 96 |
| 61) 2-Nitropropane | 7.730 | 41 | 12041 | 9.64 | ppb | 94 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 3483 | 4.74 | ppb | 91 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 26383 | 5.13 | ppb | 93 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 20060 | 5.08 | ppb | 98 |
| 66) Toluene | 8.364 | 91 | 68544 | 5.20 | ppb | 99 |
| 67) trans-1,3-Dichloropropene | 8.632 | 75 | 23633 | 4.93 | ppb | 94 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 25902 | 5.36 | ppb | 96 |
| 69) 1,1,2-Trichloroethane | 8.821 | 97 | 13951 | 4.66 | ppb | 91 |
| 72) Tetrachloroethene | 8.956 | 164 | 11519 | 5.15 | ppb | 85 |
| 73) 2-Hexanone | 9.114 | 43 | 15141 | 5.07 | ppb | 97 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 27611 | 5.30 | ppb | 97 |
| 75) Dibromochloromethane | 9.218 | 129 | 14239 | 5.24 | ppb | 99 |
| 76) N-Butyl Acetate | 9.266 | 43 | 31060 | 5.53 | ppb | 97 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 14526 | 5.03 | ppb | 91 |
| 78) Chlorobenzene | 9.809 | 112 | 42337 | 5.33 | ppb | 95 |
| 79) 3-CBTF | 9.827 | 180 | 22269 | 5.26 | ppb | # 89 |
| 80) 4-CBTF | 9.882 | 180 | 20165 | 5.21 | ppb | 97 |
| 81) 1,1,1,2-Tetrachloroethane | 9.894 | 131 | 14163 | 5.02 | ppb | 95 |
| 82) Ethylbenzene | 9.931 | 106 | 22757 | 5.19 | ppb | 99 |
| 83) (m+p)Xylene | 10.041 | 106 | 56709 | 10.68 | ppb | 96 |
| 84) o-Xylene | 10.400 | 106 | 27065 | 5.09 | ppb | 98 |
| 85) Styrene | 10.413 | 104 | 45533 | 5.09 | ppb | 97 |
| 87) Bromoform | 10.565 | 173 | 8444 | 4.77 | ppb | 96 |
| 88) 2-CBTF | 10.644 | 180 | 21787 | 5.42 | ppb | 94 |
| 89) Isopropylbenzene | 10.736 | 105 | 73755 | 5.53 | ppb | 95 |
| 90) Cyclohexanone | 10.797 | 55 | 108884 | 107.30 | ppb | 97 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 5580 | 5.28 | ppb | 82 |
| 92) 1,1,2,2-Tetrachloroethane | 10.992 | 83 | 19803 | 4.92 | ppb | 84 |
| 93) Bromobenzene | 10.986 | 156 | 17774 | 5.44 | ppb | # 90 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 6876 | 5.26 | ppb | 97 |
| 95) n-Propylbenzene | 11.095 | 91 | 84531 | 5.45 | ppb | 99 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 51609 | 5.37 | ppb | 95 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 53980 | 5.32 | ppb | 94 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 58405 | 5.26 | ppb | 95 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 57897 | 5.19 | ppb | 92 |
| 100) tert-Butylbenzene | 11.516 | 119 | 51279 | 5.32 | ppb | 97 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 57468 | 5.14 | ppb | 98 |
| 102) 3,4-DCBTF | 11.620 | 214 | 15851 | 4.93 | ppb | 96 |
| 103) sec-Butylbenzene | 11.699 | 105 | 74838 | 5.28 | ppb | 100 |
| 104) p-Isopropyltoluene | 11.821 | 119 | 62091 | 5.21 | ppb | 97 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15153.D
 Acq On : 29 Dec 2017 6:28 pm
 Operator : K.Ruest
 Sample : 5.0ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 02 11:30:54 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 32275 | 5.20 | ppb | 97 |
| 106) 1,4-Dclbenz | 11.857 | 146 | 34253 | 5.26 | ppb | 94 |
| 107) 2,4-DCBTF | 11.912 | 214 | 15481 | 5.20 | ppb | 95 |
| 108) 2,5-DCBTF | 11.949 | 214 | 15937 | 5.01 | ppb | 93 |
| 109) n-Butylbenzene | 12.156 | 91 | 55352 | 4.98 | ppb | 98 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 33230 | 5.36 | ppb | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 5017 | 4.95 | ppb | 88 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 92375 | 15.15 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 24138 | 5.00 | ppb | 92 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 66434 | 10.27 | ppb | 97 |
| 115) 1,2,4-Tcbenzene | 13.436 | 180 | 22876 | 5.08 | ppb | 98 |
| 116) Hexachlorobt | 13.577 | 225 | 10295 | 4.92 | ppb | 94 |
| 117) Naphthalen | 13.625 | 128 | 62322 | 5.01 | ppb | 97 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 20632 | 4.71 | ppb | 96 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 10252 | 3.86 | ppb | 91 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 10012 | 4.15 | ppb | 88 |

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

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15154.D
 Acq On : 29 Dec 2017 6:49 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|-------|----------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 291966 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 486988 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 432595 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.833 | 152 | 217884 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 52724 | 18.23 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 36.46%# | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 72765 | 18.36 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 36.72%# | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 239896 | 18.58 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 37.16%# | |
| 70) SURR2,BFB | 10.858 | 95 | 88358 | 17.69 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 35.38%# | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 73723 | 20.50 | ppb | | 97 |
| 3) Chloromethane | 1.305 | 50 | 84655 | 19.07 | ppb | | 97 |
| 4) Vinyl Chloride | 1.384 | 62 | 87767 | 20.30 | ppb | | 99 |
| 5) Bromomethane | 1.616 | 94 | 65257 | 19.87 | ppb | | 95 |
| 6) Chloroethane | 1.689 | 64 | 52850 | 19.58 | ppb | | 96 |
| 7) Freon 21 | 1.835 | 67 | 115862 | 20.59 | ppb | | 99 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 82363 | 19.77 | ppb | | 98 |
| 9) Diethyl Ether | 2.116 | 59 | 56515 | 19.54 | ppb | | 98 |
| 10) Freon 123a | 2.122 | 67 | 67133 | 19.21 | ppb | | 98 |
| 11) Freon 123 | 2.170 | 83 | 80114 | 19.63 | ppb | | 95 |
| 12) Acrolein | 2.213 | 56 | 91390 | 105.88 | ppb | | 99 |
| 13) 1,1-Dicethene | 2.305 | 96 | 53573 | 17.86 | ppb | | 97 |
| 14) Freon 113 | 2.311 | 101 | 53019 | 18.71 | ppb | | 94 |
| 15) Acetone | 2.347 | 43 | 36137 | 20.38 | ppb | | 98 |
| 16) 2-Propanol | 2.475 | 45 | 134988 | 395.20 | ppb | | 97 |
| 17) Iodomethane | 2.439 | 142 | 48129 | 17.81 | ppb | | 99 |
| 18) Carbon Disulfide | 2.500 | 76 | 180345 | 20.62 | ppb | | 98 |
| 19) Acetonitrile | 2.591 | 40 | 28858 | 96.02 | ppb | | 95 |
| 20) Allyl Chloride | 2.634 | 76 | 31637 | 19.81 | ppb | | 95 |
| 21) Methyl Acetate | 2.652 | 43 | 66029 | 20.77 | ppb | | 99 |
| 22) Methylene Chloride | 2.750 | 84 | 60822 | 19.23 | ppb | | 91 |
| 23) TBA | 2.872 | 59 | 230923 | 392.21 | ppb | | 99 |
| 24) Acrylonitrile | 3.000 | 53 | 170824 | 99.96 | ppb | | 99 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 214622 | 19.96 | ppb | | 99 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 58955 | 18.86 | ppb | | 97 |
| 28) 1,1-Dicethane | 3.536 | 63 | 109240 | 19.43 | ppb | | 99 |
| 29) Vinyl Acetate | 3.621 | 86 | 19750 | 21.42 | ppb | # | 84 |
| 30) DIPE | 3.658 | 45 | 210759 | 19.69 | ppb | | 96 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 108371 | 19.93 | ppb | | 94 |
| 32) ETBE | 4.182 | 59 | 218829 | 20.27 | ppb | | 96 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 96726 | 19.35 | ppb | | 96 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 67570 | 18.26 | ppb | | 96 |
| 35) 2-Butanone | 4.408 | 43 | 45812 | 20.46 | ppb | | 97 |
| 36) Propionitrile | 4.487 | 54 | 67409 | 92.82 | ppb | | 95 |
| 37) Bromochloromethane | 4.767 | 130 | 39264 | 19.33 | ppb | | 92 |
| 38) Methacrylonitrile | 4.767 | 67 | 35031 | 18.62 | ppb | | 98 |
| 39) Tetrahydrofuran | 4.853 | 42 | 26454 | 20.27 | ppb | | 94 |
| 40) Chloroform | 4.938 | 83 | 103219 | 16.93 | ppb | | 97 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 88142 | 18.40 | ppb | | 97 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15154.D
 Acq On : 29 Dec 2017 6:49 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 42) TAME | 6.084 | 73 | 213627 | 20.27 | ppb | 98 |
| 44) Cyclohexane | 5.328 | 41 | 59944 | 18.91 | ppb | 96 |
| 46) Carbontetrachloride | 5.523 | 117 | 71449 | 19.55 | ppb | 93 |
| 47) 1,1-Dichloropropene | 5.530 | 75 | 82271 | 19.18 | ppb | 98 |
| 49) Benzene | 5.847 | 78 | 247133 | 19.43 | ppb | 98 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 90128 | 19.29 | ppb | 95 |
| 51) Iso-Butyl Alcohol | 5.853 | 43 | 97223 | 376.70 | ppb | 98 |
| 52) n-Heptane | 6.334 | 43 | 83119 | 18.88 | ppb | 96 |
| 53) 1-Butanol | 6.816 | 56 | 168954 | 989.61 | ppb | 99 |
| 54) Trichloroethene | 6.798 | 130 | 61608 | 18.88 | ppb | 96 |
| 55) Methylcyclohexane | 7.035 | 55 | 82601 | 19.46 | ppb | 98 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 65021 | 19.16 | ppb | 95 |
| 57) Dibromomethane | 7.218 | 93 | 39938 | 19.71 | ppb | 97 |
| 58) 1,4-Dioxane | 7.279 | 88 | 25673 | 383.26 | ppb | 97 |
| 59) Methyl Methacrylate | 7.304 | 69 | 59811 | 19.16 | ppb | 96 |
| 60) Bromodichloromethane | 7.450 | 83 | 79062 | 18.36 | ppb | 97 |
| 61) 2-Nitropropane | 7.724 | 41 | 50922 | 38.91 | ppb | 94 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 13441 | 17.45 | ppb | 94 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 109564 | 20.33 | ppb | 98 |
| 64) 4-Methyl-2-pentanone | 8.194 | 43 | 83525 | 20.18 | ppb | 99 |
| 66) Toluene | 8.364 | 91 | 267628 | 19.37 | ppb | 97 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 100595 | 20.04 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 106139 | 20.96 | ppb | 97 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 58878 | 18.76 | ppb | 98 |
| 72) Tetrachloroethene | 8.956 | 164 | 42833 | 17.94 | ppb | 95 |
| 73) 2-Hexanone | 9.108 | 43 | 63596 | 19.97 | ppb | 88 |
| 74) 1,3-Dichloropropane | 8.986 | 76 | 109832 | 19.76 | ppb | 99 |
| 75) Dibromochloromethane | 9.218 | 129 | 56561 | 19.50 | ppb | 99 |
| 76) N-Butyl Acetate | 9.267 | 43 | 128752 | 21.48 | ppb | 97 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 63198 | 20.51 | ppb | 97 |
| 78) Chlorobenzene | 9.809 | 112 | 167284 | 19.74 | ppb | 98 |
| 79) 3-CBTF | 9.827 | 180 | 88226 | 19.52 | ppb | 99 |
| 80) 4-CBTF | 9.882 | 180 | 80584 | 19.51 | ppb | 96 |
| 81) 1,1,1,2-Tetrachloroethane | 9.895 | 131 | 56794 | 18.85 | ppb | 99 |
| 82) Ethylbenzene | 9.931 | 106 | 87997 | 18.81 | ppb | 96 |
| 83) (m+p)Xylene | 10.041 | 106 | 219646 | 38.78 | ppb | 100 |
| 84) o-Xylene | 10.401 | 106 | 108435 | 19.12 | ppb | 94 |
| 85) Styrene | 10.413 | 104 | 187928 | 19.69 | ppb | 97 |
| 87) Bromoform | 10.565 | 173 | 38186 | 20.09 | ppb | 96 |
| 88) 2-CBTF | 10.644 | 180 | 86163 | 19.97 | ppb | 98 |
| 89) Isopropylbenzene | 10.736 | 105 | 282882 | 19.76 | ppb | 99 |
| 90) Cyclohexanone | 10.797 | 55 | 429744 | 394.62 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 22558 | 19.88 | ppb | 95 |
| 92) 1,1,2,2-Tetrachloroethane | 10.992 | 83 | 83898 | 19.42 | ppb | 98 |
| 93) Bromobenzene | 10.980 | 156 | 67536 | 19.26 | ppb | 96 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 29041 | 20.69 | ppb | 100 |
| 95) n-Propylbenzene | 11.095 | 91 | 333066 | 20.01 | ppb | 100 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 200054 | 19.39 | ppb | 100 |
| 97) 3-Chlorotoluene | 11.205 | 91 | 224096 | 20.59 | ppb | 92 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 230591 | 19.34 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 232544 | 19.42 | ppb | 97 |
| 100) tert-Butylbenzene | 11.516 | 119 | 200065 | 19.36 | ppb | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 233419 | 19.47 | ppb | 98 |
| 102) 3,4-DCBTF | 11.620 | 214 | 68300 | 19.80 | ppb | 99 |
| 103) sec-Butylbenzene | 11.699 | 105 | 294650 | 19.37 | ppb | 99 |
| 104) p-Isopropyltoluene | 11.821 | 119 | 240243 | 18.77 | ppb | 99 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15154.D
 Acq On : 29 Dec 2017 6:49 pm
 Operator : K.Ruest
 Sample : 20ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

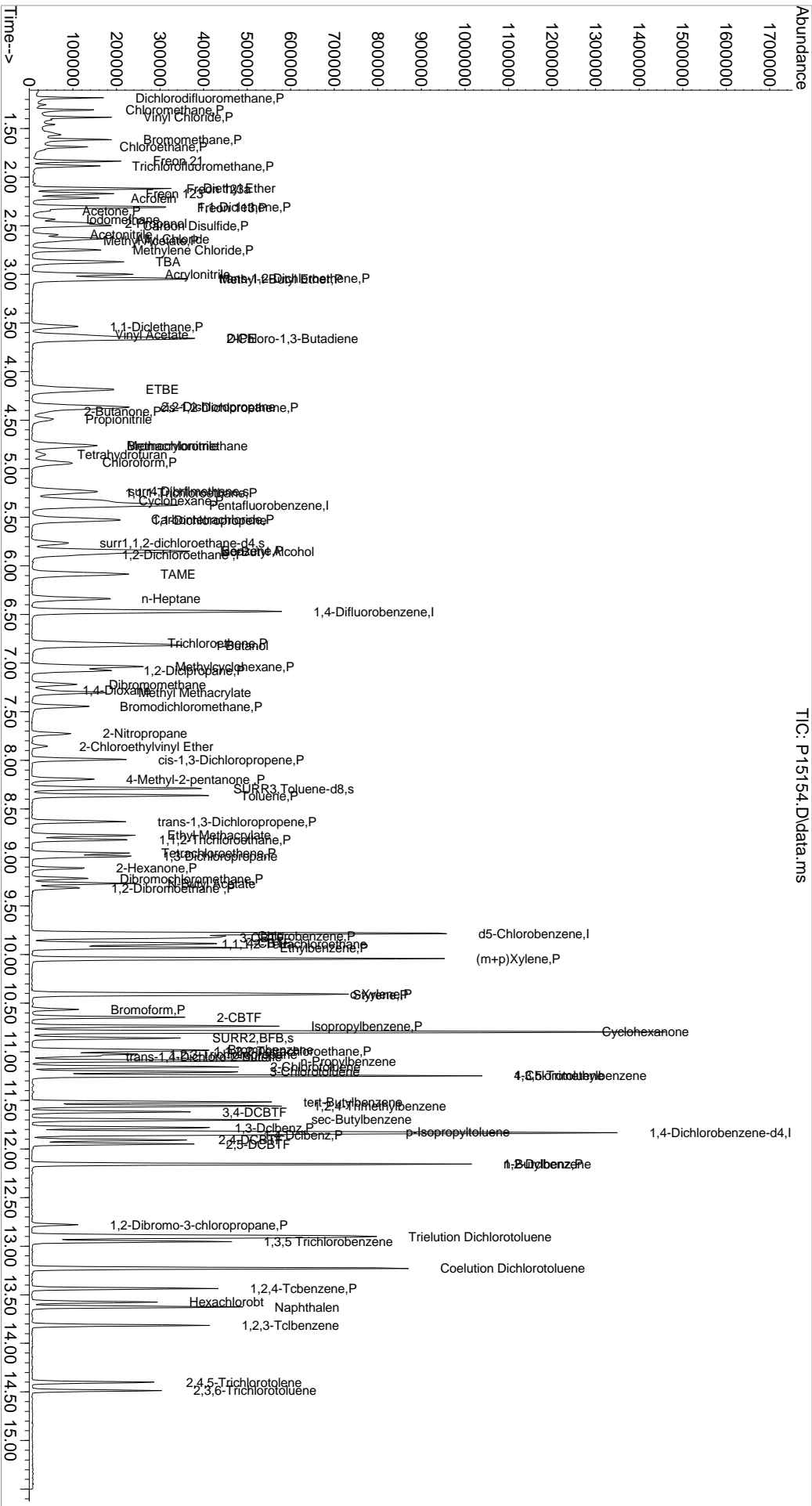
Quant Time: Jan 02 10:04:51 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 128325 | 19.26 | ppb | 99 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 132721 | 18.98 | ppb | 98 |
| 107) 2,4-DCBTF | 11.906 | 214 | 63318 | 19.82 | ppb | 98 |
| 108) 2,5-DCBTF | 11.949 | 214 | 68912 | 20.18 | ppb | 96 |
| 109) n-Butylbenzene | 12.156 | 91 | 223403 | 18.71 | ppb | 97 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 132338 | 19.90 | ppb | 98 |
| 111) 1,2-Dibromo-3-chloropr... | 12.778 | 157 | 20568 | 18.89 | ppb | 88 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 390759 | 59.72 | ppb | 99 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 103199 | 19.93 | ppb | 99 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 280855 | 40.47 | ppb | 99 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 92621 | 19.16 | ppb | 97 |
| 116) Hexachlorobt | 13.577 | 225 | 40099 | 17.87 | ppb | 97 |
| 117) Naphthalen | 13.626 | 128 | 274709 | 20.59 | ppb | 98 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 90401 | 19.25 | ppb | 95 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 55914 | 19.64 | ppb | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 52554 | 20.31 | ppb | 86 |

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

Data Path : I:\ACQDATA\msvoa12\Data\122917\
 Data File : P15154.D
 Acq On : 29 Dec 2017 6:49 pm
 Operator : K.Ruest
 Sample : 20ppb
 Conc : 8260 WATER ICAL
 PALS Vial : 6 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15155.D
 Acq On : 29 Dec 2017 7:11 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 285166 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 470666 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 417045 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 212180 | 50.00 | ppb | 0.00 |

| | | | | | | |
|-------------------------------|--------|----------------|------------|---------|-----|------|
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.225 | 113 | 139572 | 49.94 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 99.88% | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 193216 | 50.45 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 100.90% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 626059 | 50.17 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 100.34% | | |
| 70) SURR2,BFB | 10.858 | 95 | 238144 | 49.33 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 98.66% | | |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane | 1.183 | 85 | 185458 | 52.80 | ppb | 100 |
| 3) Chloromethane | 1.305 | 50 | 209194 | 48.25 | ppb | 100 |
| 4) Vinyl Chloride | 1.384 | 62 | 213326 | 50.51 | ppb | 100 |
| 5) Bromomethane | 1.610 | 94 | 132984 | 41.46 | ppb | 100 |
| 6) Chloroethane | 1.689 | 64 | 132064 | 50.08 | ppb | 100 |
| 7) Freon 21 | 1.835 | 67 | 274910 | 50.02 | ppb | 100 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 202491 | 49.75 | ppb | 100 |
| 9) Diethyl Ether | 2.116 | 59 | 133898 | 47.40 | ppb | 100 |
| 10) Freon 123a | 2.116 | 67 | 169452 | 49.64 | ppb | 100 |
| 11) Freon 123 | 2.170 | 83 | 197460 | 49.54 | ppb | 100 |
| 12) Acrolein | 2.213 | 56 | 205270 | 243.48 | ppb | 100 |
| 13) 1,1-Diclcethene | 2.305 | 96 | 133942 | 45.73 | ppb | 100 |
| 14) Freon 113 | 2.311 | 101 | 133342 | 48.17 | ppb | 100 |
| 15) Acetone | 2.347 | 43 | 87260 | 50.38 | ppb | 100 |
| 16) 2-Propanol | 2.475 | 45 | 309128 | 926.59 | ppb | 100 |
| 17) Iodomethane | 2.433 | 142 | 183051 | 69.36 | ppb | 100 |
| 18) Carbon Disulfide | 2.500 | 76 | 431946 | 50.56 | ppb | 100 |
| 19) Acetonitrile | 2.591 | 40 | 68723 | 234.11 | ppb | 100 |
| 20) Allyl Chloride | 2.634 | 76 | 74459 | 47.73 | ppb | 100 |
| 21) Methyl Acetate | 2.652 | 43 | 147727 | 47.57 | ppb | 100 |
| 22) Methylene Chloride | 2.750 | 84 | 149710 | 48.46 | ppb | 100 |
| 23) TBA | 2.871 | 59 | 538425 | 936.28 | ppb | 100 |
| 24) Acrylonitrile | 3.000 | 53 | 395382 | 236.88 | ppb | 100 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 511794 | 48.74 | ppb | 100 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 146262 | 47.90 | ppb | 100 |
| 28) 1,1-Diclcethane | 3.536 | 63 | 269876 | 49.15 | ppb | 100 |
| 29) Vinyl Acetate | 3.627 | 86 | 42409 | 47.10 | ppb | 100 |
| 30) DIPE | 3.658 | 45 | 509501 | 48.73 | ppb | 100 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 254374 | 47.89 | ppb | 100 |
| 32) ETBE | 4.188 | 59 | 532219 | 50.48 | ppb | 100 |
| 33) 2,2-Dichloropropane | 4.359 | 77 | 233299 | 47.78 | ppb | 100 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 164684 | 45.56 | ppb | 100 |
| 35) 2-Butanone | 4.414 | 43 | 106486 | 48.70 | ppb | 100 |
| 36) Propionitrile | 4.493 | 54 | 163133 | 229.97 | ppb | 100 |
| 37) Bromochloromethane | 4.761 | 130 | 92520 | 46.64 | ppb | 100 |
| 38) Methacrylonitrile | 4.761 | 67 | 82633 | 44.98 | ppb | 100 |
| 39) Tetrahydrofuran | 4.853 | 42 | 62628 | 49.14 | ppb | 100 |
| 40) Chloroform | 4.944 | 83 | 253260 | 42.52 | ppb | 100 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 216329 | 46.24 | ppb | 100 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15155.D
 Acq On : 29 Dec 2017 7:11 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 512669 | 49.81 | ppb | 100 |
| 44) Cyclohexane | 5.328 | 41 | 146746 | 47.90 | ppb | 100 |
| 46) Carbontetrachloride | 5.517 | 117 | 177487 | 50.24 | ppb | 100 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 204387 | 49.30 | ppb | 100 |
| 49) Benzene | 5.847 | 78 | 603170 | 49.06 | ppb | 100 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 221777 | 49.10 | ppb | 100 |
| 51) Iso-Butyl Alcohol | 5.853 | 43 | 235620 | 944.60 | ppb | 100 |
| 52) n-Heptane | 6.340 | 43 | 207731 | 48.81 | ppb | 100 |
| 53) 1-Butanol | 6.822 | 56 | 408921 | 2478.23 | ppb | 100 |
| 54) Trichloroethene | 6.798 | 130 | 157782 | 50.04 | ppb | 100 |
| 55) Methylcyclohexane | 7.035 | 55 | 209380 | 51.03 | ppb | 100 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 159102 | 48.51 | ppb | 100 |
| 57) Dibromomethane | 7.218 | 93 | 95701 | 48.87 | ppb | 100 |
| 58) 1,4-Dioxane | 7.279 | 88 | 60464 | 933.95 | ppb | 100 |
| 59) Methyl Methacrylate | 7.304 | 69 | 145402 | 48.19 | ppb | 100 |
| 60) Bromodichloromethane | 7.444 | 83 | 192925 | 46.36 | ppb | 100 |
| 61) 2-Nitropropane | 7.724 | 41 | 123250 | 97.43 | ppb | 100 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 36696 | 49.29 | ppb | 100 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 265008 | 50.88 | ppb | 100 |
| 64) 4-Methyl-2-pentanone | 8.194 | 43 | 197235 | 49.30 | ppb | 100 |
| 66) Toluene | 8.364 | 91 | 660262 | 49.44 | ppb | 100 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 246121 | 50.72 | ppb | 100 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 250836 | 51.26 | ppb | 100 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 140459 | 46.30 | ppb | 100 |
| 72) Tetrachloroethene | 8.956 | 164 | 110238 | 47.90 | ppb | 100 |
| 73) 2-Hexanone | 9.108 | 43 | 151603 | 49.37 | ppb | 100 |
| 74) 1,3-Dichloropropane | 8.986 | 76 | 264897 | 49.43 | ppb | 100 |
| 75) Dibromochloromethane | 9.218 | 129 | 141283 | 50.51 | ppb | 100 |
| 76) N-Butyl Acetate | 9.267 | 43 | 304141 | 52.63 | ppb | 100 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 147371 | 49.60 | ppb | 100 |
| 78) Chlorobenzene | 9.809 | 112 | 409247 | 50.09 | ppb | 100 |
| 79) 3-CBTF | 9.827 | 180 | 209587 | 48.11 | ppb | 100 |
| 80) 4-CBTF | 9.882 | 180 | 188719 | 47.40 | ppb | 100 |
| 81) 1,1,1,2-Tetrachloroethane | 9.895 | 131 | 142685 | 49.13 | ppb | 100 |
| 82) Ethylbenzene | 9.931 | 106 | 221739 | 49.16 | ppb | 100 |
| 83) (m+p)Xylene | 10.041 | 106 | 544255 | 99.68 | ppb | 100 |
| 84) o-Xylene | 10.400 | 106 | 273570 | 50.04 | ppb | 100 |
| 85) Styrene | 10.413 | 104 | 473047 | 51.40 | ppb | 100 |
| 87) Bromoform | 10.565 | 173 | 91728 | 49.56 | ppb | 100 |
| 88) 2-CBTF | 10.644 | 180 | 204437 | 48.67 | ppb | 100 |
| 89) Isopropylbenzene | 10.736 | 105 | 703200 | 50.44 | ppb | 100 |
| 90) Cyclohexanone | 10.797 | 55 | 1032485 | 973.58 | ppb | 100 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 54132 | 48.99 | ppb | 100 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 202168 | 48.05 | ppb | 100 |
| 93) Bromobenzene | 10.980 | 156 | 167317 | 49.01 | ppb | 100 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 67110 | 49.10 | ppb | 100 |
| 95) n-Propylbenzene | 11.095 | 91 | 837261 | 51.65 | ppb | 100 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 496293 | 49.38 | ppb | 100 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 535859 | 50.55 | ppb | 100 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 583666 | 50.27 | ppb | 100 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 592259 | 50.79 | ppb | 100 |
| 100) tert-Butylbenzene | 11.516 | 119 | 510291 | 50.70 | ppb | 100 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 598582 | 51.26 | ppb | 100 |
| 102) 3,4-DCBTF | 11.620 | 214 | 168206 | 50.08 | ppb | 100 |
| 103) sec-Butylbenzene | 11.699 | 105 | 758675 | 51.23 | ppb | 100 |
| 104) p-Isopropyltoluene | 11.821 | 119 | 636264 | 51.05 | ppb | 100 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15155.D
 Acq On : 29 Dec 2017 7:11 pm
 Operator : K.Ruest
 Sample : 50ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

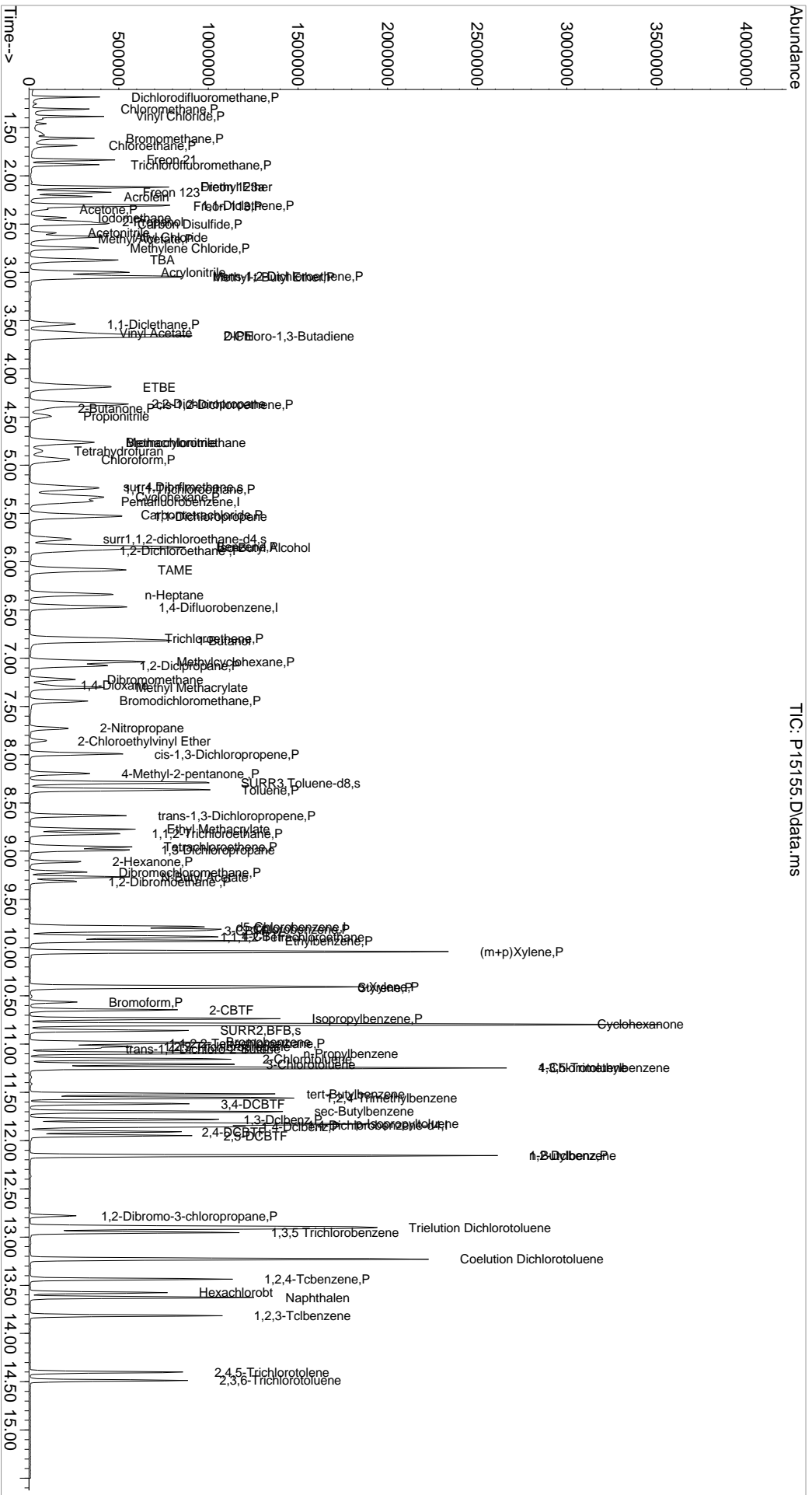
Quant Time: Jan 02 10:04:54 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 327576 | 50.47 | ppb | 100 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 330531 | 48.53 | ppb | 100 |
| 107) 2,4-DCBTF | 11.912 | 214 | 155261 | 49.89 | ppb | 100 |
| 108) 2,5-DCBTF | 11.949 | 214 | 166686 | 50.13 | ppb | 100 |
| 109) n-Butylbenzene | 12.156 | 91 | 606320 | 52.15 | ppb | 100 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 326328 | 50.38 | ppb | 100 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 49528 | 46.72 | ppb | 100 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 979295 | 153.70 | ppb | 100 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 258128 | 51.19 | ppb | 100 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 718040 | 106.26 | ppb | 100 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 247574 | 52.58 | ppb | 100 |
| 116) Hexachlorobt | 13.577 | 225 | 107495 | 49.18 | ppb | 100 |
| 117) Naphthalen | 13.625 | 128 | 706889 | 54.41 | ppb | 100 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 240331 | 52.55 | ppb | 100 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 168073 | 60.62 | ppb | 100 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 154183 | 61.18 | ppb | 100 |

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

Data Path : I:\ACQDATA\msvoa12\Data\122917\
 Data File : P15155.D
 Acq On : 29 Dec 2017 7:11 pm
 Operator : K.Ruest
 Sample : 50ppb
 Conc : 8260 WATER ICAL
 PALS Vial : 7 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15156.D
 Acq On : 29 Dec 2017 7:32 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:57 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------|----------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 291479 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 485941 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 437945 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 232083 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 291015 | 100.86 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 | - 119 | Recovery | = | 201.72%# | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 393053 | 99.41 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 | - 125 | Recovery | = | 198.82%# | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 1270821 | 98.64 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 | - 121 | Recovery | = | 197.28%# | |
| 70) SURR2,BFB | 10.858 | 95 | 503121 | 100.94 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 | - 122 | Recovery | = | 201.88%# | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 406406 | 113.20 | ppb | | 97 |
| 3) Chloromethane | 1.305 | 50 | 457343 | 103.19 | ppb | | 100 |
| 4) Vinyl Chloride | 1.384 | 62 | 471329 | 109.18 | ppb | | 98 |
| 5) Bromomethane | 1.603 | 94 | 267383 | 81.55 | ppb | | 98 |
| 6) Chloroethane | 1.683 | 64 | 281603 | 104.48 | ppb | | 98 |
| 7) Freon 21 | 1.835 | 67 | 570720 | 101.59 | ppb | | 100 |
| 8) Trichlorofluoromethane | 1.878 | 101 | 450983 | 108.41 | ppb | | 99 |
| 9) Diethyl Ether | 2.115 | 59 | 296654 | 102.75 | ppb | | 97 |
| 10) Freon 123a | 2.115 | 67 | 352884 | 101.14 | ppb | | 98 |
| 11) Freon 123 | 2.170 | 83 | 416503 | 102.22 | ppb | | 98 |
| 12) Acrolein | 2.213 | 56 | 420814 | 488.34 | ppb | | 99 |
| 13) 1,1-Dicethene | 2.304 | 96 | 295926 | 98.84 | ppb | | 96 |
| 14) Freon 113 | 2.310 | 101 | 295983 | 104.62 | ppb | | 99 |
| 15) Acetone | 2.347 | 43 | 173977 | 98.27 | ppb | | 98 |
| 16) 2-Propanol | 2.481 | 45 | 687919 | 2017.34 | ppb | | 99 |
| 17) Iodomethane | 2.432 | 142 | 397156 | 147.24 | ppb | | 96 |
| 18) Carbon Disulfide | 2.493 | 76 | 869002 | 99.52 | ppb | | 99 |
| 19) Acetonitrile | 2.591 | 40 | 152773 | 509.17 | ppb | | 99 |
| 20) Allyl Chloride | 2.634 | 76 | 159380 | 99.95 | ppb | | 98 |
| 21) Methyl Acetate | 2.652 | 43 | 314450 | 99.07 | ppb | | 99 |
| 22) Methylene Chloride | 2.749 | 84 | 327410 | 103.68 | ppb | | 98 |
| 23) TBA | 2.877 | 59 | 1208755 | 2056.41 | ppb | | 99 |
| 24) Acrylonitrile | 2.999 | 53 | 871837 | 511.02 | ppb | | 98 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 1106707 | 103.11 | ppb | | 100 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 321201 | 102.90 | ppb | | 96 |
| 28) 1,1-Dicethane | 3.536 | 63 | 596191 | 106.24 | ppb | | 99 |
| 29) Vinyl Acetate | 3.621 | 86 | 91108 | 99.00 | ppb | # | 88 |
| 30) DIPE | 3.658 | 45 | 1041698 | 97.47 | ppb | | 98 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 512752 | 94.45 | ppb | | 95 |
| 32) ETBE | 4.188 | 59 | 1081591 | 100.36 | ppb | | 98 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 515652 | 103.33 | ppb | | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 362470 | 98.11 | ppb | | 99 |
| 35) 2-Butanone | 4.408 | 43 | 216443 | 96.85 | ppb | | 96 |
| 36) Propionitrile | 4.493 | 54 | 359375 | 495.65 | ppb | | 98 |
| 37) Bromochloromethane | 4.761 | 130 | 207820 | 102.50 | ppb | | 97 |
| 38) Methacrylonitrile | 4.761 | 67 | 181165 | 96.47 | ppb | | 98 |
| 39) Tetrahydrofuran | 4.853 | 42 | 140292 | 107.69 | ppb | | 92 |
| 40) Chloroform | 4.944 | 83 | 552967 | 90.83 | ppb | | 99 |
| 41) 1,1,1-Trichloroethane | 5.237 | 97 | 489285 | 102.31 | ppb | | 98 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15156.D
 Acq On : 29 Dec 2017 7:32 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:57 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 1052920 | 100.08 | ppb | 99 |
| 44) Cyclohexane | 5.328 | 41 | 308776 | 97.62 | ppb | 97 |
| 46) Carbontetrachloride | 5.517 | 117 | 401975 | 110.20 | ppb | 97 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 450211 | 105.18 | ppb | 93 |
| 49) Benzene | 5.846 | 78 | 1326681 | 104.52 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 481513 | 103.26 | ppb | 98 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 537047 | 2085.33 | ppb | 98 |
| 52) n-Heptane | 6.334 | 43 | 458826 | 104.42 | ppb | 97 |
| 53) 1-Butanol | 6.828 | 56 | 896835 | 5264.34 | ppb | 99 |
| 54) Trichloroethene | 6.797 | 130 | 342516 | 105.22 | ppb | 97 |
| 55) Methylcyclohexane | 7.035 | 55 | 436058 | 102.94 | ppb | 95 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 349111 | 103.09 | ppb | 100 |
| 57) Dibromomethane | 7.218 | 93 | 210104 | 103.93 | ppb | 99 |
| 58) 1,4-Dioxane | 7.279 | 88 | 141678 | 2119.63 | ppb | 97 |
| 59) Methyl Methacrylate | 7.303 | 69 | 317131 | 101.80 | ppb | 96 |
| 60) Bromodichloromethane | 7.444 | 83 | 432910 | 100.77 | ppb | 96 |
| 61) 2-Nitropropane | 7.730 | 41 | 273028 | 209.06 | ppb | 97 |
| 62) 2-Chloroethylvinyl Ether | 7.852 | 63 | 89516 | 116.45 | ppb | 97 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 584323 | 108.65 | ppb | 97 |
| 64) 4-Methyl-2-pentanone | 8.193 | 43 | 408070 | 98.80 | ppb | 100 |
| 66) Toluene | 8.364 | 91 | 1433672 | 103.98 | ppb | 99 |
| 67) trans-1,3-Dichloropropene | 8.632 | 75 | 545723 | 108.92 | ppb | 100 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 557135 | 110.26 | ppb | 100 |
| 69) 1,1,2-Trichloroethane | 8.821 | 97 | 312299 | 99.70 | ppb | 98 |
| 72) Tetrachloroethene | 8.956 | 164 | 246661 | 102.06 | ppb | 99 |
| 73) 2-Hexanone | 9.108 | 43 | 318266 | 98.71 | ppb | 98 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 577284 | 102.58 | ppb | 97 |
| 75) Dibromochloromethane | 9.218 | 129 | 318785 | 108.54 | ppb | 99 |
| 76) N-Butyl Acetate | 9.266 | 43 | 649156 | 106.97 | ppb | 98 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 323633 | 103.73 | ppb | 96 |
| 78) Chlorobenzene | 9.809 | 112 | 904858 | 105.46 | ppb | 99 |
| 79) 3-CBTF | 9.827 | 180 | 437770 | 95.69 | ppb | 96 |
| 80) 4-CBTF | 9.882 | 180 | 397310 | 95.03 | ppb | 97 |
| 81) 1,1,1,2-Tetrachloroethane | 9.894 | 131 | 315863 | 103.56 | ppb | 99 |
| 82) Ethylbenzene | 9.931 | 106 | 493080 | 104.09 | ppb | 96 |
| 83) (m+p)Xylene | 10.047 | 106 | 1229191 | 214.38 | ppb | 91 |
| 84) o-Xylene | 10.400 | 106 | 604232 | 105.25 | ppb | 100 |
| 85) Styrene | 10.413 | 104 | 1053244 | 108.99 | ppb | 99 |
| 87) Bromoform | 10.565 | 173 | 216146 | 106.77 | ppb | 98 |
| 88) 2-CBTF | 10.644 | 180 | 430768 | 93.75 | ppb | 95 |
| 89) Isopropylbenzene | 10.736 | 105 | 1573603 | 103.20 | ppb | 100 |
| 90) Cyclohexanone | 10.797 | 55 | 2355466 | 2030.61 | ppb | 97 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 127881 | 105.82 | ppb | 97 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 463179 | 100.65 | ppb | 100 |
| 93) Bromobenzene | 10.986 | 156 | 379408 | 101.60 | ppb | # 85 |
| 94) 1,2,3-Trichloropropane | 11.022 | 110 | 150724 | 100.82 | ppb | 96 |
| 95) n-Propylbenzene | 11.095 | 91 | 1857463 | 104.76 | ppb | 99 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 1134081 | 103.17 | ppb | 99 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 1133645 | 97.76 | ppb | 98 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 1309812 | 103.13 | ppb | 98 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 1335384 | 104.71 | ppb | 97 |
| 100) tert-Butylbenzene | 11.522 | 119 | 1156415 | 105.05 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 1356626 | 106.21 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 364062 | 99.10 | ppb | 99 |
| 103) sec-Butylbenzene | 11.699 | 105 | 1721017 | 106.24 | ppb | 100 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 1462620 | 107.29 | ppb | 98 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15156.D
 Acq On : 29 Dec 2017 7:32 pm
 Operator : K.Ruest
 Sample : 100ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

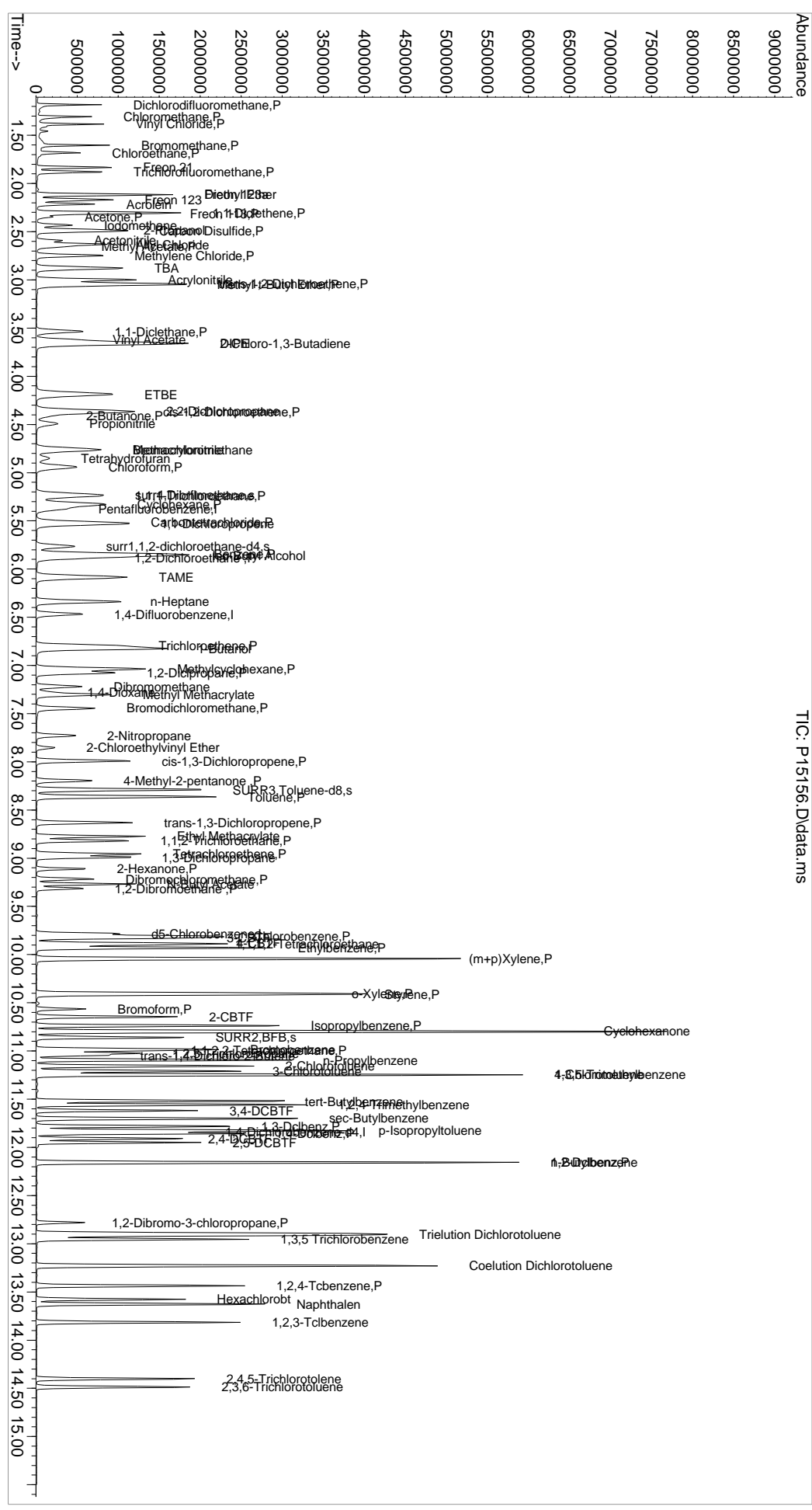
Quant Time: Jan 02 10:04:57 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 745361 | 105.00 | ppb | 99 |
| 106) 1,4-Dclbenz | 11.857 | 146 | 759898 | 102.00 | ppb | 100 |
| 107) 2,4-DCBTF | 11.912 | 214 | 342135 | 100.52 | ppb | 98 |
| 108) 2,5-DCBTF | 11.949 | 214 | 375116 | 103.14 | ppb | 96 |
| 109) n-Butylbenzene | 12.156 | 91 | 1412911 | 111.11 | ppb | 99 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 757996 | 106.99 | ppb | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 121453 | 104.74 | ppb | 97 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 2132804 | 306.04 | ppb | 99 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 566591 | 102.72 | ppb | 99 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 1564602 | 211.68 | ppb | 98 |
| 115) 1,2,4-Tcbenzene | 13.436 | 180 | 573904 | 111.44 | ppb | 97 |
| 116) Hexachlorobt | 13.577 | 225 | 253403 | 106.00 | ppb | 97 |
| 117) Naphthalen | 13.625 | 128 | 1624030 | 114.29 | ppb | 100 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 562316 | 112.41 | ppb | 98 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 389200 | 128.33 | ppb | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 350481 | 127.14 | ppb | 97 |

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

Data Path : I:\ACQDATA\msvoa12\Data\122917\
 Data File : P15156.D
 Acq On : 29 Dec 2017 7:32 pm
 Operator : K.Ruest
 Sample : 100ppb
 Conc : 8260 WATER ICAL
 PALS Vial : 8 Sample Multiplier: 1
 Inst : MSVOA-12

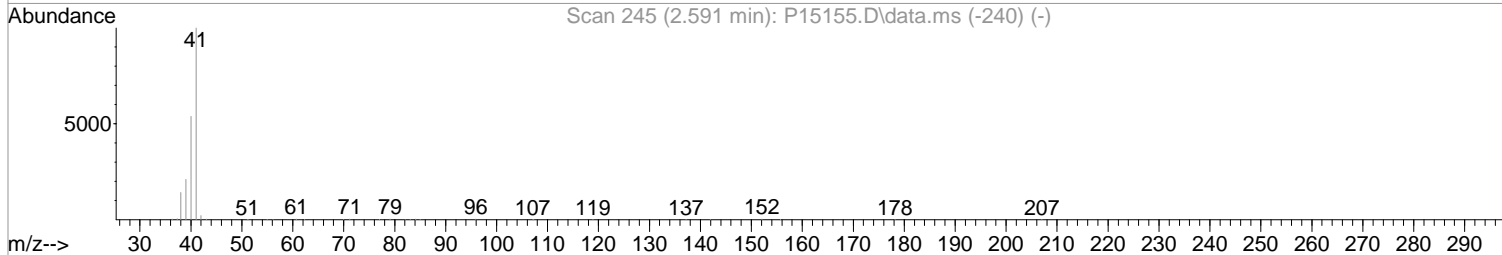
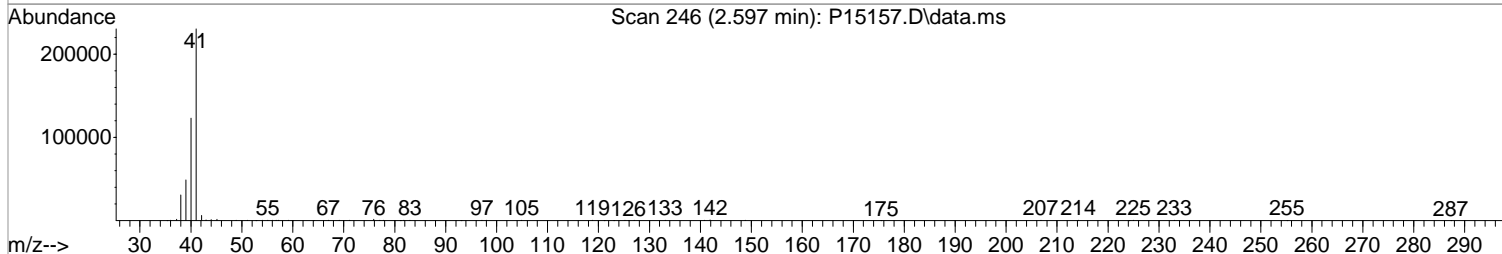
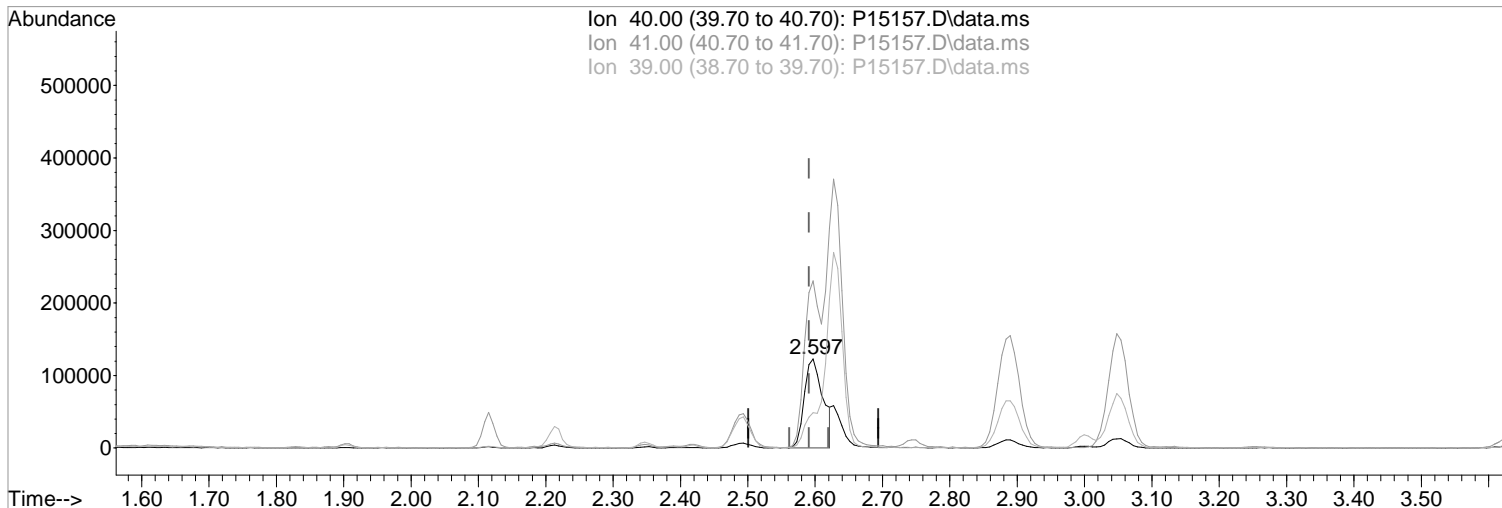
Quant Time: Jan 02 10:04:57 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15157.D
Acq On : 29 Dec 2017 7:54 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:00 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



TIC: P15157.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 790.36 ppb m
response 238029

Manual Integration:
After
Poor integration.

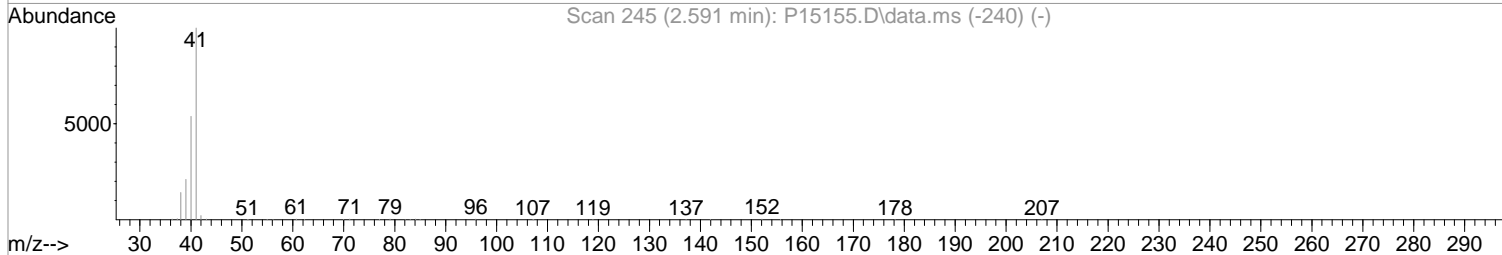
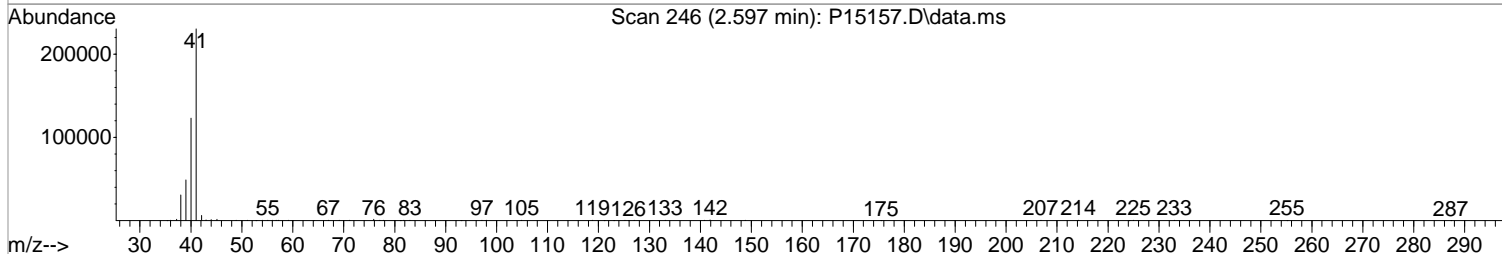
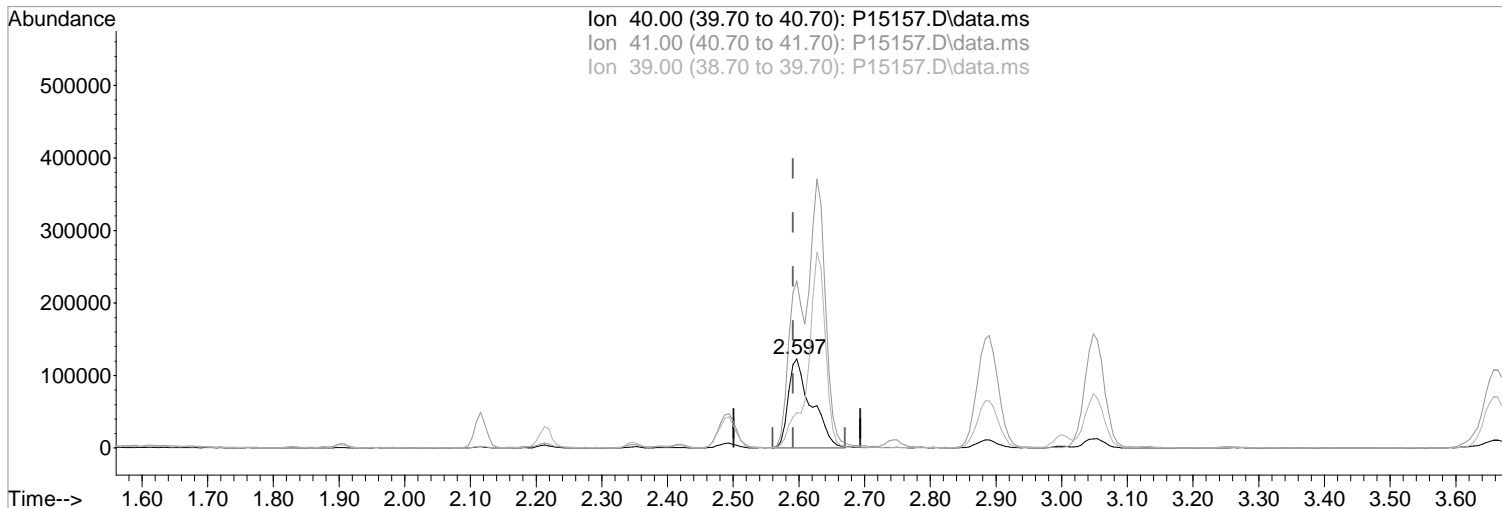
| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 187.65 |
| 39.00 | 40.10 | 39.75 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
Data File : P15157.D
Acq On : 29 Dec 2017 7:54 pm
Operator : K.Ruest
Sample : 150ppb
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:00 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 09:43:32 2018
Response via : Initial Calibration



(19) Acetonitrile
2.597min (+0.006) 989.46 ppb
response 297991

Manual Integration:

Before

| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 187.65 |
| 39.00 | 40.10 | 39.75 |
| 0.00 | 0.00 | 0.00 |

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15157.D
 Acq On : 29 Dec 2017 7:54 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------------|------------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 292569 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 490455 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 434110 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 247756 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 547527 | 188.02 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 376.04%# | | | |
| 48) surr1,1,2-dichloroetha... | 5.761 | 65 | 734391 | 184.03 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 368.06%# | | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 2327638 | 179.00 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 358.00%# | | | |
| 70) SURR2,BFB | 10.858 | 95 | 956833 | 190.21 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 380.42%# | | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 539738 | 149.77 | ppb | | 99 |
| 3) Chloromethane | 1.305 | 50 | 622907 | 140.03 | ppb | | 100 |
| 4) Vinyl Chloride | 1.384 | 62 | 641459 | 148.03 | ppb | | 98 |
| 5) Bromomethane | 1.603 | 94 | 316635 | 96.21 | ppb | | 96 |
| 6) Chloroethane | 1.670 | 64 | 374393 | 138.39 | ppb | | 97 |
| 7) Freon 21 | 1.829 | 67 | 814269 | 144.40 | ppb | | 100 |
| 8) Trichlorofluoromethane | 1.878 | 101 | 602038 | 144.19 | ppb | | 99 |
| 9) Diethyl Ether | 2.115 | 59 | 416000 | 143.54 | ppb | | 99 |
| 10) Freon 123a | 2.115 | 67 | 513832 | 146.71 | ppb | | 99 |
| 11) Freon 123 | 2.170 | 83 | 600366 | 146.80 | ppb | | 100 |
| 12) Acrolein | 2.213 | 56 | 615460 | 711.56 | ppb | | 99 |
| 13) 1,1-Dicethene | 2.298 | 96 | 397720 | 132.35 | ppb | | 99 |
| 14) Freon 113 | 2.304 | 101 | 392173 | 138.10 | ppb | | 99 |
| 15) Acetone | 2.347 | 43 | 258006 | 145.20 | ppb | | 99 |
| 16) 2-Propanol | 2.493 | 45 | 1065868 | 3114.04 | ppb | | 97 |
| 17) Iodomethane | 2.432 | 142 | 556437 | 205.52 | ppb | | 98 |
| 18) Carbon Disulfide | 2.493 | 76 | 1268697 | 144.75 | ppb | | 99 |
| 19) Acetonitrile | 2.597 | 40 | 238029m | 790.36 | ppb | | |
| 20) Allyl Chloride | 2.627 | 76 | 201357 | 125.80 | ppb | | 90 |
| 21) Methyl Acetate | 2.652 | 43 | 462488 | 145.17 | ppb | | 98 |
| 22) Methylene Chloride | 2.743 | 84 | 445429 | 140.53 | ppb | | 94 |
| 23) TBA | 2.890 | 59 | 1786989 | 3028.82 | ppb | | 100 |
| 24) Acrylonitrile | 2.999 | 53 | 1218100 | 711.32 | ppb | | 98 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 1557430 | 144.57 | ppb | | 99 |
| 26) trans-1,2-Dichloroethene | 3.036 | 96 | 440239 | 140.51 | ppb | | 96 |
| 28) 1,1-Dicethane | 3.536 | 63 | 815707 | 144.81 | ppb | | 99 |
| 29) Vinyl Acetate | 3.627 | 86 | 122751 | 132.88 | ppb | # | 85 |
| 30) DIPE | 3.658 | 45 | 1499391 | 139.77 | ppb | | 99 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 749401 | 137.52 | ppb | | 98 |
| 32) ETBE | 4.182 | 59 | 1553259 | 143.58 | ppb | | 99 |
| 33) 2,2-Dichloropropane | 4.359 | 77 | 693672 | 138.48 | ppb | | 99 |
| 34) cis-1,2-Dichloroethene | 4.365 | 96 | 506031 | 136.46 | ppb | | 99 |
| 35) 2-Butanone | 4.414 | 43 | 320247 | 142.76 | ppb | | 95 |
| 36) Propionitrile | 4.493 | 54 | 514127 | 706.44 | ppb | | 100 |
| 37) Bromochloromethane | 4.761 | 130 | 288792 | 141.90 | ppb | | 99 |
| 38) Methacrylonitrile | 4.761 | 67 | 256359 | 136.00 | ppb | | 97 |
| 39) Tetrahydrofuran | 4.853 | 42 | 194913 | 149.06 | ppb | | 95 |
| 40) Chloroform | 4.944 | 83 | 758817 | 124.18 | ppb | | 99 |
| 41) 1,1,1-Trichloroethane | 5.237 | 97 | 663489 | 138.22 | ppb | | 99 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15157.D
 Acq On : 29 Dec 2017 7:54 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 1515937 | 143.56 | ppb | 99 |
| 44) Cyclohexane | 5.328 | 41 | 445198 | 139.45 | ppb | 99 |
| 46) Carbontetrachloride | 5.517 | 117 | 544735 | 147.96 | ppb | 96 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 612237 | 141.71 | ppb | 96 |
| 49) Benzene | 5.846 | 78 | 1818984 | 141.98 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 682917 | 145.10 | ppb | 99 |
| 51) Iso-Butyl Alcohol | 5.871 | 43 | 821240 | 3159.49 | ppb | 98 |
| 52) n-Heptane | 6.334 | 43 | 595523 | 134.29 | ppb | 98 |
| 53) 1-Butanol | 6.834 | 56 | 1390226 | 8085.40 | ppb | 99 |
| 54) Trichloroethene | 6.797 | 130 | 462521 | 140.77 | ppb | 97 |
| 55) Methylcyclohexane | 7.035 | 55 | 614887 | 143.82 | ppb | 99 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 480907 | 140.71 | ppb | 99 |
| 57) Dibromomethane | 7.218 | 93 | 294803 | 144.48 | ppb | 100 |
| 58) 1,4-Dioxane | 7.279 | 88 | 212207 | 3145.58 | ppb | 99 |
| 59) Methyl Methacrylate | 7.303 | 69 | 446487 | 142.01 | ppb | 98 |
| 60) Bromodichloromethane | 7.444 | 83 | 595001 | 137.22 | ppb | 97 |
| 61) 2-Nitropropane | 7.730 | 41 | 391518 | 297.02 | ppb | 95 |
| 62) 2-Chloroethylvinyl Ether | 7.852 | 63 | 144721 | 186.53 | ppb | 96 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 810061 | 149.24 | ppb | 99 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 602146 | 144.44 | ppb | 97 |
| 66) Toluene | 8.364 | 91 | 1934015 | 138.98 | ppb | 100 |
| 67) trans-1,3-Dichloropropene | 8.632 | 75 | 759648 | 150.23 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 783521 | 153.64 | ppb | 98 |
| 69) 1,1,2-Trichloroethane | 8.821 | 97 | 437457 | 138.37 | ppb | 97 |
| 72) Tetrachloroethene | 8.955 | 164 | 332311 | 138.72 | ppb | 98 |
| 73) 2-Hexanone | 9.114 | 43 | 484165 | 151.49 | ppb | 96 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 791974 | 141.97 | ppb | 98 |
| 75) Dibromochloromethane | 9.218 | 129 | 445592 | 153.05 | ppb | 99 |
| 76) N-Butyl Acetate | 9.266 | 43 | 968879 | 161.06 | ppb | 98 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 451565 | 146.01 | ppb | 100 |
| 78) Chlorobenzene | 9.809 | 112 | 1238808 | 145.66 | ppb | 98 |
| 79) 3-CBTF | 9.827 | 180 | 622531 | 137.28 | ppb | 99 |
| 80) 4-CBTF | 9.882 | 180 | 562205 | 135.66 | ppb | 96 |
| 81) 1,1,1,2-Tetrachloroethane | 9.900 | 131 | 443581 | 146.72 | ppb | 97 |
| 82) Ethylbenzene | 9.931 | 106 | 673420 | 143.42 | ppb | # 91 |
| 83) (m+p)Xylene | 10.047 | 106 | 1644308 | 289.32 | ppb | 91 |
| 84) o-Xylene | 10.400 | 106 | 825179 | 145.01 | ppb | 99 |
| 85) Styrene | 10.413 | 104 | 1451842 | 151.56 | ppb | 98 |
| 87) Bromoform | 10.565 | 173 | 317619 | 146.97 | ppb | 99 |
| 88) 2-CBTF | 10.644 | 180 | 618636 | 126.12 | ppb | 97 |
| 89) Isopropylbenzene | 10.742 | 105 | 2092787 | 128.56 | ppb | 97 |
| 90) Cyclohexanone | 10.803 | 55 | 3524297 | 2846.05 | ppb | 97 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 197069 | 152.75 | ppb | 96 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 711154 | 144.76 | ppb | 97 |
| 93) Bromobenzene | 10.986 | 156 | 525400 | 131.79 | ppb | # 87 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 229053 | 143.53 | ppb | 92 |
| 95) n-Propylbenzene | 11.095 | 91 | 2472471 | 130.63 | ppb | 98 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 1540580 | 131.28 | ppb | 99 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 1619765 | 130.85 | ppb | 98 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 1816544 | 133.98 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 1806839 | 132.71 | ppb | 96 |
| 100) tert-Butylbenzene | 11.522 | 119 | 1573501 | 133.89 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 1867526 | 136.96 | ppb | 98 |
| 102) 3,4-DCBTF | 11.620 | 214 | 534041 | 136.18 | ppb | 98 |
| 103) sec-Butylbenzene | 11.705 | 105 | 2330647 | 134.77 | ppb | 97 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 2002602 | 137.60 | ppb | 97 |

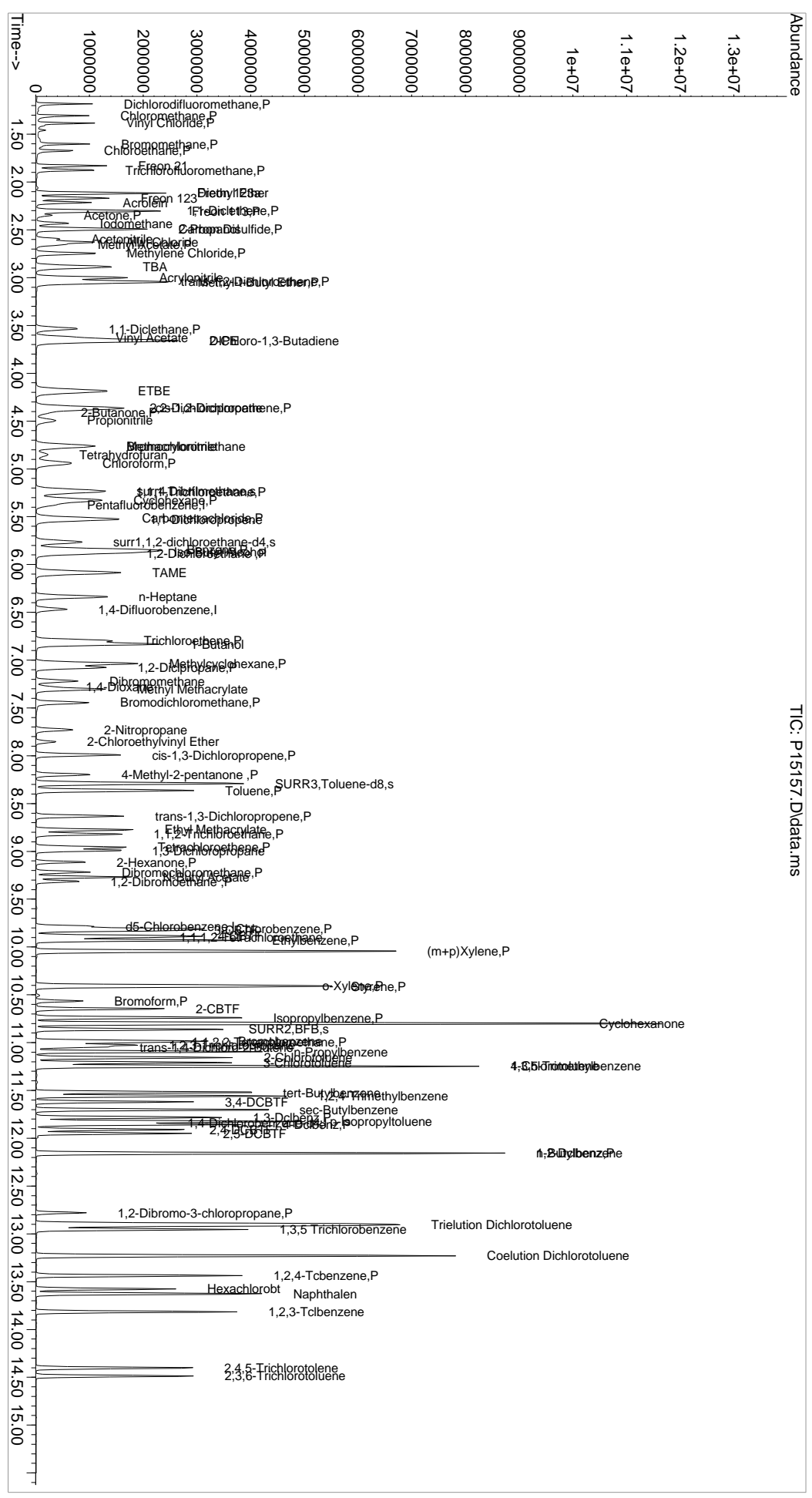
Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15157.D
 Acq On : 29 Dec 2017 7:54 pm
 Operator : K.Ruest
 Sample : 150ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 02 11:37:06 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 1067793 | 140.91 | ppb | 97 |
| 106) 1,4-Dclbenz | 11.857 | 146 | 1100174 | 138.34 | ppb | 100 |
| 107) 2,4-DCBTF | 11.912 | 214 | 504051 | 138.72 | ppb | 96 |
| 108) 2,5-DCBTF | 11.949 | 214 | 565452 | 145.64 | ppb | 98 |
| 109) n-Butylbenzene | 12.156 | 91 | 1957468 | 144.19 | ppb | 97 |
| 110) 1,2-Dclbenz | 12.156 | 146 | 1119097 | 147.96 | ppb | 97 |
| 111) 1,2-Dibromo-3-chloropr... | 12.778 | 157 | 188568 | 152.33 | ppb | 89 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 3274890 | 440.19 | ppb | 95 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 873495 | 148.34 | ppb | 99 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 2410195 | 305.46 | ppb | 98 |
| 115) 1,2,4-Tcbenzene | 13.436 | 180 | 872721 | 158.74 | ppb | 96 |
| 116) Hexachlorobt | 13.577 | 225 | 365403 | 143.18 | ppb | 99 |
| 117) Naphthalen | 13.625 | 128 | 2437047 | 160.66 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 838162 | 156.95 | ppb | 99 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 607215 | 187.55 | ppb | 99 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 543243 | 184.61 | ppb | 97 |

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

Data Path : I:\ACQDATA\msvoa12\Data\122917\
 Data File : P15157.D
 Acq On : 29 Dec 2017 7:54 pm
 Operator : K.Ruest
 Sample : 150ppb
 Disc : 8260 WATER ICAL
 PALS Vial : 9 Sample Multiplier: 1
 Inst : MSVOA-12
 Quant Time: Jan 02 11:37:06 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Qlast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15158.D
 Acq On : 29 Dec 2017 8:16 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 290912 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 487367 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 437596 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 247869 | 50.00 | ppb | 0.00 |

| | | | | | | |
|-------------------------------|--------|-------|----------|----------|-----|---------|
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.225 | 113 | 144272 | 49.86 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 99.72% |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 197998 | 49.93 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 99.86% |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 644017 | 49.84 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 99.68% |
| 70) SURR2,BFB | 10.858 | 95 | 257652 | 51.54 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 103.08% |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane | 1.183 | 85 | 751240 | 209.65 | ppb | 98 |
| 3) Chloromethane | 1.305 | 50 | 842475 | 190.47 | ppb | 99 |
| 4) Vinyl Chloride | 1.384 | 62 | 868455 | 201.56 | ppb | 100 |
| 5) Bromomethane | 1.603 | 94 | 461003 | 140.87 | ppb | 96 |
| 6) Chloroethane | 1.683 | 64 | 527822 | 196.21 | ppb | 97 |
| 7) Freon 21 | 1.835 | 67 | 1111626 | 198.26 | ppb | 100 |
| 8) Trichlorofluoromethane | 1.878 | 101 | 821925 | 197.97 | ppb | 99 |
| 9) Diethyl Ether | 2.115 | 59 | 566315 | 196.52 | ppb | 99 |
| 10) Freon 123a | 2.115 | 67 | 693482 | 199.14 | ppb | 98 |
| 11) Freon 123 | 2.170 | 83 | 806074 | 198.22 | ppb | 99 |
| 12) Acrolein | 2.213 | 56 | 845277 | 982.83 | ppb | 98 |
| 13) 1,1-Dicethene | 2.304 | 96 | 547719 | 183.30 | ppb | 96 |
| 14) Freon 113 | 2.311 | 101 | 538979 | 190.88 | ppb | 98 |
| 15) Acetone | 2.347 | 43 | 351188 | 198.76 | ppb | 98 |
| 16) 2-Propanol | 2.481 | 45 | 1373962 | 4037.03 | ppb | 100 |
| 17) Iodomethane | 2.432 | 142 | 808369 | 300.27 | ppb | 100 |
| 18) Carbon Disulfide | 2.493 | 76 | 1729359 | 198.43 | ppb | 99 |
| 19) Acetonitrile | 2.591 | 40 | 294271 | 982.67 | ppb | 99 |
| 20) Allyl Chloride | 2.634 | 76 | 289745 | 182.05 | ppb | 98 |
| 21) Methyl Acetate | 2.652 | 43 | 628591 | 198.43 | ppb | 98 |
| 22) Methylene Chloride | 2.749 | 84 | 610961 | 193.85 | ppb | 98 |
| 23) TBA | 2.884 | 59 | 2296991 | 3915.41 | ppb | 100 |
| 24) Acrylonitrile | 2.999 | 53 | 1645062 | 966.12 | ppb | 100 |
| 25) Methyl-t-Butyl Ether | 3.048 | 73 | 2091958 | 195.29 | ppb | 98 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 599623 | 192.48 | ppb | 98 |
| 28) 1,1-Dicethane | 3.536 | 63 | 1099476 | 196.30 | ppb | 100 |
| 29) Vinyl Acetate | 3.627 | 86 | 169659 | 184.71 | ppb | # 86 |
| 30) DIPE | 3.664 | 45 | 2008391 | 188.29 | ppb | 96 |
| 31) 2-Chloro-1,3-Butadiene | 3.658 | 53 | 1021309 | 188.49 | ppb | 98 |
| 32) ETBE | 4.188 | 59 | 2094666 | 194.73 | ppb | 99 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 944252 | 189.58 | ppb | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 679606 | 184.32 | ppb | 99 |
| 35) 2-Butanone | 4.408 | 43 | 437404 | 196.10 | ppb | 99 |
| 36) Propionitrile | 4.493 | 54 | 675244 | 933.11 | ppb | 99 |
| 37) Bromochloromethane | 4.761 | 130 | 397989 | 196.67 | ppb | 95 |
| 38) Methacrylonitrile | 4.767 | 67 | 343737 | 183.40 | ppb | 95 |
| 39) Tetrahydrofuran | 4.853 | 42 | 263268 | 202.48 | ppb | 95 |
| 40) Chloroform | 4.944 | 83 | 1035776 | 170.47 | ppb | 99 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 903387 | 189.27 | ppb | 99 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15158.D
 Acq On : 29 Dec 2017 8:16 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 42) TAME | 6.084 | 73 | 2037262 | 194.02 | ppb | 99 |
| 44) Cyclohexane | 5.328 | 41 | 604103 | 190.42 | ppb | 95 |
| 46) Carbontetrachloride | 5.517 | 117 | 735485 | 201.04 | ppb | 97 |
| 47) 1,1-Dichloropropene | 5.529 | 75 | 842599 | 196.27 | ppb | 97 |
| 49) Benzene | 5.846 | 78 | 2449784 | 192.43 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 902735 | 193.02 | ppb | 98 |
| 51) Iso-Butyl Alcohol | 5.865 | 43 | 1039787 | 4025.64 | ppb | 100 |
| 52) n-Heptane | 6.340 | 43 | 845487 | 191.86 | ppb | 97 |
| 53) 1-Butanol | 6.834 | 56 | 1754566 | 10269.01 | ppb | 99 |
| 54) Trichloroethene | 6.797 | 130 | 629327 | 192.75 | ppb | 96 |
| 55) Methylcyclohexane | 7.035 | 55 | 841747 | 198.13 | ppb | 99 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 656968 | 193.44 | ppb | 99 |
| 57) Dibromomethane | 7.218 | 93 | 394147 | 194.39 | ppb | 99 |
| 58) 1,4-Dioxane | 7.279 | 88 | 271954 | 4056.76 | ppb | 99 |
| 59) Methyl Methacrylate | 7.303 | 69 | 602614 | 192.88 | ppb | 99 |
| 60) Bromodichloromethane | 7.444 | 83 | 805927 | 187.04 | ppb | 97 |
| 61) 2-Nitropropane | 7.730 | 41 | 530882 | 405.30 | ppb | 96 |
| 62) 2-Chloroethylvinyl Ether | 7.852 | 63 | 197975 | 256.79 | ppb | 99 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 1093652 | 202.76 | ppb | 98 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 818222 | 197.52 | ppb | 98 |
| 66) Toluene | 8.364 | 91 | 2622312 | 189.63 | ppb | 99 |
| 67) trans-1,3-Dichloropropene | 8.632 | 75 | 1036667 | 206.31 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.773 | 69 | 1047414 | 206.69 | ppb | 100 |
| 69) 1,1,2-Trichloroethane | 8.821 | 97 | 587034 | 186.86 | ppb | 98 |
| 72) Tetrachloroethene | 8.956 | 164 | 452798 | 187.50 | ppb | 98 |
| 73) 2-Hexanone | 9.114 | 43 | 645998 | 200.51 | ppb | 95 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 1085040 | 192.96 | ppb | 96 |
| 75) Dibromochloromethane | 9.218 | 129 | 608537 | 207.35 | ppb | 100 |
| 76) N-Butyl Acetate | 9.266 | 43 | 1292182 | 213.09 | ppb | 98 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 614032 | 196.96 | ppb | 97 |
| 78) Chlorobenzene | 9.809 | 112 | 1680665 | 196.04 | ppb | 97 |
| 79) 3-CBTF | 9.827 | 180 | 876297 | 191.70 | ppb | 97 |
| 80) 4-CBTF | 9.882 | 180 | 784651 | 187.83 | ppb | 97 |
| 81) 1,1,1,2-Tetrachloroethane | 9.900 | 131 | 608273 | 199.59 | ppb | 97 |
| 82) Ethylbenzene | 9.931 | 106 | 929718 | 196.43 | ppb | # 89 |
| 83) (m+p)Xylene | 10.047 | 106 | 2264539 | 395.27 | ppb | # 84 |
| 84) o-Xylene | 10.400 | 106 | 1136660 | 198.16 | ppb | 96 |
| 85) Styrene | 10.413 | 104 | 1971122 | 204.13 | ppb | 97 |
| 87) Bromoform | 10.565 | 173 | 430898 | 199.29 | ppb | 99 |
| 88) 2-CBTF | 10.644 | 180 | 864752 | 176.21 | ppb | 98 |
| 89) Isopropylbenzene | 10.742 | 105 | 2851948 | 175.12 | ppb | 96 |
| 90) Cyclohexanone | 10.803 | 55 | 4382480 | 3537.46 | ppb | 93 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 262051 | 203.03 | ppb | 97 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 927526 | 188.72 | ppb | 97 |
| 93) Bromobenzene | 10.986 | 156 | 721898 | 180.99 | ppb | # 87 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 298297 | 186.83 | ppb | # 90 |
| 95) n-Propylbenzene | 11.095 | 91 | 3339751 | 176.37 | ppb | 96 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 2098787 | 178.77 | ppb | 99 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 2217961 | 179.09 | ppb | 99 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 2483738 | 183.11 | ppb | 97 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 2494924 | 183.17 | ppb | 95 |
| 100) tert-Butylbenzene | 11.522 | 119 | 2187207 | 186.03 | ppb | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 2528724 | 185.37 | ppb | 96 |
| 102) 3,4-DCBTF | 11.620 | 214 | 739979 | 188.61 | ppb | 98 |
| 103) sec-Butylbenzene | 11.705 | 105 | 3183145 | 183.98 | ppb | 95 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 2749131 | 188.81 | ppb | 97 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15158.D
 Acq On : 29 Dec 2017 8:16 pm
 Operator : K.Ruest
 Sample : 200ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

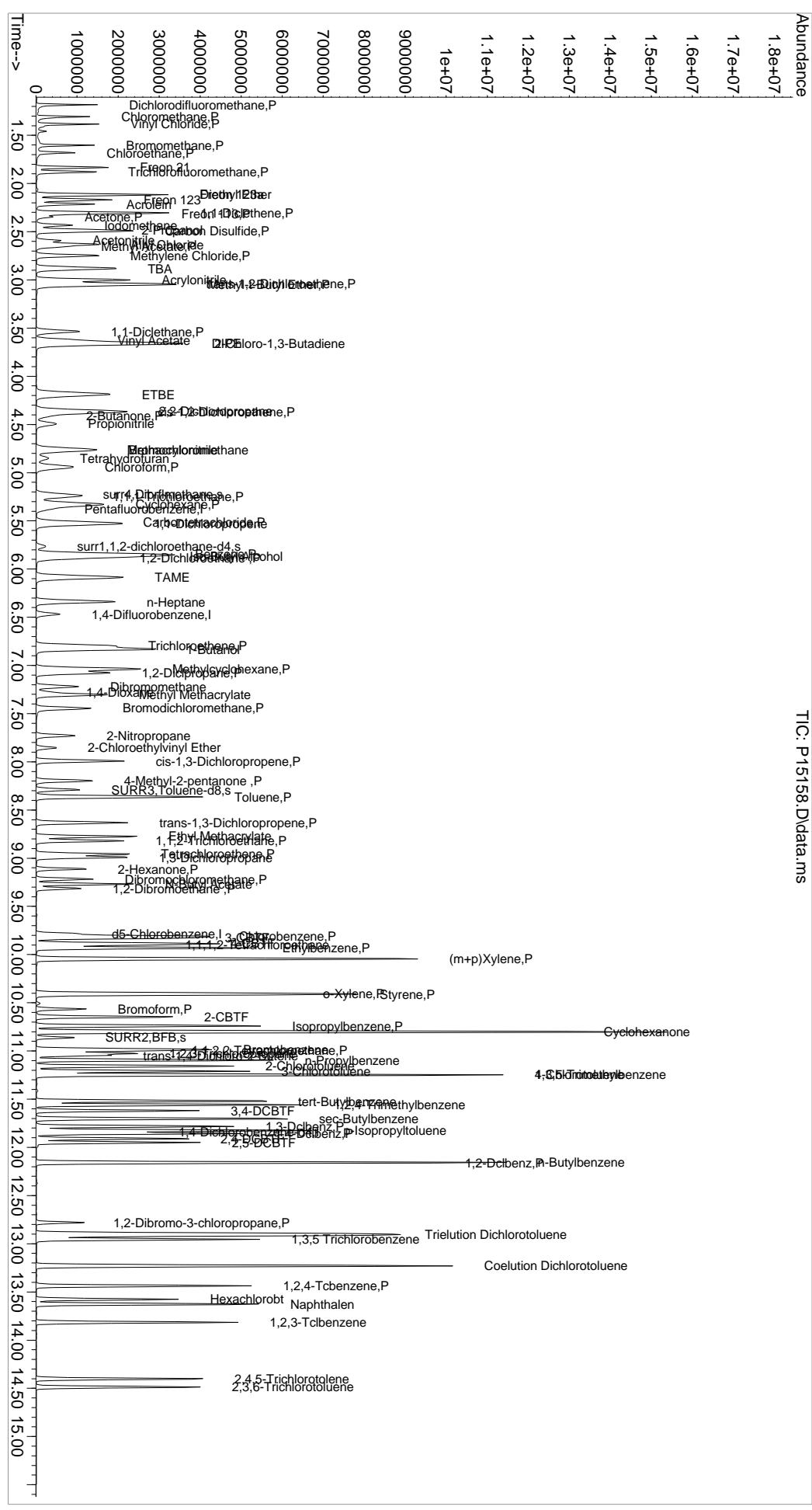
Quant Time: Jan 02 10:05:03 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 1435051 | 189.28 | ppb | 97 |
| 106) 1,4-Dclbenz | 11.857 | 146 | 1475977 | 185.51 | ppb | 98 |
| 107) 2,4-DCBTF | 11.912 | 214 | 693879 | 190.88 | ppb | 98 |
| 108) 2,5-DCBTF | 11.949 | 214 | 774579 | 199.41 | ppb | 97 |
| 109) n-Butylbenzene | 12.156 | 91 | 2655114 | 195.50 | ppb | 96 |
| 110) 1,2-Dclbenz | 12.162 | 146 | 1466109 | 193.75 | ppb | 97 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 244588 | 197.50 | ppb | 99 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 4327505 | 581.41 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 1187560 | 201.58 | ppb | 99 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 3153338 | 399.46 | ppb | 96 |
| 115) 1,2,4-Tcbenzene | 13.436 | 180 | 1152706 | 209.58 | ppb | 98 |
| 116) Hexachlorobt | 13.577 | 225 | 488363 | 191.28 | ppb | 98 |
| 117) Naphthalen | 13.625 | 128 | 3152851 | 207.75 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.814 | 180 | 1096108 | 205.16 | ppb | 98 |
| 119) 2,4,5-Trichlorotolene | 14.400 | 159 | 813315 | 251.10 | ppb | 99 |
| 120) 2,3,6-Trichlorotoluene | 14.485 | 159 | 743055 | 252.39 | ppb | 98 |

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

1st 01/02/18

Data Path : I:\ACQDATA\msvoa12\Data\122917\
 Data File : P15158.D
 Acq On : 29 Dec 2017 8:16 pm
 Operator : K.Ruest
 Sample : 200ppb
 Disc : 8260 WATER ICAL
 PALS Vial : 10 Sample Multiplier: 1
 Inst : MSVOA-12
 Quant Time: Jan 02 10:05:03 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QIast Update : Tue Jan 02 09:43:32 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15162.D
 Acq On : 29 Dec 2017 9:43 pm
 Operator : K.Ruest
 Sample : ICV 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|------|-----------------------------|-----------|----------|-------|-------|----------|
| 1 I | Pentafluorobenzene | 50.0000 | 50.0000 | 0.0 | 101 | 0.00 |
| 2 P | Dichlorodifluoromethane | 50.0000 | 38.3364 | 23.3# | 72 | 0.00 |
| 3 P | Chloromethane | 50.0000 | 43.5025 | 13.0 | 91 | 0.00 |
| 4 P | Vinyl Chloride | 50.0000 | 46.7558 | 6.5 | 93 | 0.00 |
| 5 P | Bromomethane | 50.0000 | 45.3858 | 9.2 | 107 | 0.00 |
| 6 P | Chloroethane | 50.0000 | 46.6469 | 6.7 | 94 | 0.00 |
| 7 | Freon 21 | 50.0000 | 51.8310 | -3.7 | 104 | 0.00 |
| 8 P | Trichlorofluoromethane | 50.0000 | 51.8442 | -3.7 | 105 | 0.00 |
| 9 | Diethyl Ether | 50.0000 | 47.8708 | 4.3 | 102 | 0.00 |
| 10 | Freon 123a | 50.0000 | 55.1162 | -10.2 | 113 | 0.00 |
| 11 | Freon 123 | 50.0000 | 52.3280 | -4.7 | 107 | 0.00 |
| 12 | Acrolein | 250.0000 | 64.4076 | 74.2# | 27 | 0.00 |
| 13 P | 1,1-Dicethene | 50.0000 | 45.0181 | 10.0 | 99 | 0.00 |
| 14 P | Freon 113 | 50.0000 | 46.5695 | 6.9 | 98 | 0.00 |
| 15 P | Acetone | 50.0000 | 48.4806 | 3.0 | 98 | 0.00 |
| 16 | 2-Propanol | 1000.0000 | 989.1796 | 1.1 | 108 | 0.00 |
| 17 | Iodomethane | 50.0000 | 36.5844 | 26.8# | 69 | 0.00 |
| 18 P | Carbon Disulfide | 50.0000 | 45.9999 | 8.0 | 92 | 0.00 |
| 19 | Acetonitrile | 250.0000 | 236.9515 | 5.2 | 103 | 0.00 |
| 20 | Allyl Chloride | 50.0000 | 46.6651 | 6.7 | 99 | 0.00 |
| 21 P | Methyl Acetate | 50.0000 | 50.2279 | -0.5 | 107 | 0.00 |
| 22 P | Methylene Chloride | 50.0000 | 48.2385 | 3.5 | 101 | 0.00 |
| 23 | TBA | 1000.0000 | 965.5453 | 3.4 | 104 | 0.00 |
| 24 | Acrylonitrile | 250.0000 | 238.6045 | 4.6 | 102 | 0.00 |
| 25 P | Methyl-t-Butyl Ether | 50.0000 | 47.8966 | 4.2 | 99 | 0.00 |
| 26 P | trans-1,2-Dichloroethene | 50.0000 | 47.9361 | 4.1 | 99 | 0.00 |
| 27 | Halothane | -1.0000 | 0.0000 | 0.0 | 0 | -4.00# |
| 28 P | 1,1-Dicethane | 50.0000 | 49.5055 | 1.0 | 102 | 0.00 |
| 29 | Vinyl Acetate | 50.0000 | 43.1364 | 13.7 | 90 | 0.00 |
| 30 | DIPE | 50.0000 | 46.6654 | 6.7 | 97 | 0.00 |
| 31 | 2-Chloro-1,3-Butadiene | 50.0000 | 45.4804 | 9.0 | 96 | -0.01 |
| 32 | ETBE | 50.0000 | 48.2001 | 3.6 | 96 | 0.01 |
| 33 | 2,2-Dichloropropane | 50.0000 | 46.2159 | 7.6 | 98 | 0.00 |
| 34 P | cis-1,2-Dichloroethene | 50.0000 | 47.9734 | 4.1 | 100 | 0.00 |
| 35 P | 2-Butanone | 50.0000 | 46.9551 | 6.1 | 97 | 0.00 |
| 36 | Propionitrile | 250.0000 | 229.3379 | 8.3 | 101 | -0.01 |
| 37 | Bromochloromethane | 50.0000 | 48.8549 | 2.3 | 105 | 0.01 |
| 38 | Methacrylonitrile | 50.0000 | 51.9388 | -3.9 | 107 | 0.00 |
| 39 | Tetrahydrofuran | 50.0000 | 50.6503 | -1.3 | 104 | 0.00 |
| 40 P | Chloroform | 50.0000 | 47.1963 | 5.6 | 104 | 0.00 |
| 41 P | 1,1,1-Trichloroethane | 50.0000 | 48.2984 | 3.4 | 105 | 0.01 |
| 42 | TAME | 50.0000 | 48.8381 | 2.3 | 99 | 0.00 |
| 43 I | 1,4-Difluorobenzene | 50.0000 | 50.0000 | 0.0 | 102 | 0.00 |
| 44 P | Cyclohexane | 50.0000 | 46.1498 | 7.7 | 99 | 0.00 |
| 45 s | surr4,Dibrflmethane | 50.0000 | 49.6375 | 0.7 | 101 | 0.00 |
| 46 P | Carbontetrachloride | 50.0000 | 50.9593 | -1.9 | 103 | 0.00 |
| 47 | 1,1-Dichloropropene | 50.0000 | 49.5886 | 0.8 | 103 | 0.01 |
| 48 s | surr1,1,2-dichloroethane-d4 | 50.0000 | 49.5422 | 0.9 | 100 | 0.00 |
| 49 P | Benzene | 50.0000 | 49.4920 | 1.0 | 103 | 0.00 |
| 50 P | 1,2-Dichloroethane | 50.0000 | 48.0812 | 3.8 | 100 | 0.00 |
| 51 | Iso-Butyl Alcohol | 1000.0000 | 945.5165 | 5.4 | 102 | 0.00 |

Data Path : I:\ACQUDATA\msvoal2\Data\122917\
 Data File : P15162.D
 Acq On : 29 Dec 2017 9:43 pm
 Operator : K.Ruest
 Sample : ICV 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|------|-----------------------------|-----------|-----------|-------|-------|----------|
| 52 | n-Heptane | 50.0000 | 44.9998 | 10.0 | 93 | 0.02 |
| 53 | 1-Butanol | 2500.0000 | 2494.2713 | 0.2 | 103 | -0.01 |
| 54 P | Trichloroethene | 50.0000 | 50.4687 | -0.9 | 103 | 0.00 |
| 55 P | Methylcyclohexane | 50.0000 | 49.0548 | 1.9 | 98 | 0.00 |
| 56 P | 1,2-Diclp propane | 50.0000 | 48.4676 | 3.1 | 102 | 0.01 |
| 57 | Dibromomethane | 50.0000 | 47.8199 | 4.4 | 100 | 0.00 |
| 58 | 1,4-Dioxane | 1000.0000 | 976.8829 | 2.3 | 107 | 0.00 |
| 59 | Methyl Methacrylate | 50.0000 | 48.3817 | 3.2 | 103 | -0.01 |
| 60 P | Bromodichloromethane | 50.0000 | 48.1066 | 3.8 | 105 | 0.00 |
| 61 | 2-Nitropropane | 100.0000 | 92.4985 | 7.5 | 98 | 0.00 |
| 62 | 2-Chloroethylvinyl Ether | 50.0000 | 50.4464 | -0.9 | 106 | 0.00 |
| 63 P | cis-1,3-Dichloropropene | 50.0000 | 49.6107 | 0.8 | 99 | 0.00 |
| 64 P | 4-Methyl-2-pentanone | 50.0000 | 46.1898 | 7.6 | 96 | 0.00 |
| 65 s | SURR3,Toluene-d8 | 50.0000 | 49.1066 | 1.8 | 100 | 0.00 |
| 66 P | Toluene | 50.0000 | 49.7158 | 0.6 | 103 | 0.00 |
| 67 P | trans-1,3-Dichloropropene | 50.0000 | 50.2479 | -0.5 | 101 | 0.00 |
| 68 | Ethyl Methacrylate | 50.0000 | 51.7282 | -3.5 | 104 | 0.00 |
| 69 P | 1,1,2-Trichloroethane | 50.0000 | 47.0703 | 5.9 | 104 | 0.00 |
| 70 s | SURR2,BFB | 50.0000 | 48.1879 | 3.6 | 100 | 0.00 |
| 71 I | d5-Chlorobenzene | 50.0000 | 50.0000 | 0.0 | 102 | 0.00 |
| 72 P | Tetrachloroethene | 50.0000 | 47.6152 | 4.8 | 101 | -0.01 |
| 73 P | 2-Hexanone | 50.0000 | 46.7916 | 6.4 | 97 | 0.00 |
| 74 | 1,3-Dichloropropane | 50.0000 | 48.6785 | 2.6 | 100 | 0.00 |
| 75 P | Dibromochloromethane | 50.0000 | 50.3673 | -0.7 | 102 | 0.00 |
| 76 | N-Butyl Acetate | 50.0000 | 53.6467 | -7.3 | 104 | -0.01 |
| 77 P | 1,2-Dibromoethane | 50.0000 | 48.5922 | 2.8 | 100 | 0.00 |
| 78 P | Chlorobenzene | 50.0000 | 51.3244 | -2.6 | 104 | 0.00 |
| 79 | 3-CBTF | 50.0000 | 47.1241 | 5.8 | 100 | 0.00 |
| 80 | 4-CBTF | 50.0000 | 45.9124 | 8.2 | 99 | 0.00 |
| 81 | 1,1,1,2-Tetrachloroethane | 50.0000 | 49.5753 | 0.8 | 103 | 0.00 |
| 82 P | Ethylbenzene | 50.0000 | 49.8294 | 0.3 | 103 | 0.00 |
| 83 P | (m+p)Xylene | 100.0000 | 100.6183 | -0.6 | 103 | 0.00 |
| 84 P | o-Xylene | 50.0000 | 49.7286 | 0.5 | 101 | 0.00 |
| 85 P | Styrene | 50.0000 | 51.1258 | -2.3 | 101 | 0.00 |
| 86 I | 1,4-Dichlorobenzene-d4 | 50.0000 | 50.0000 | 0.0 | 103 | 0.00 |
| 87 P | Bromoform | 50.0000 | 49.8785 | 0.2 | 104 | 0.00 |
| 88 | 2-CBTF | 50.0000 | 48.2256 | 3.5 | 100 | 0.00 |
| 89 P | Isopropylbenzene | 50.0000 | 49.4973 | 1.0 | 101 | 0.00 |
| 90 | Cyclohexanone | 1000.0000 | 765.2859 | 23.5# | 81 | 0.00 |
| 91 | trans-1,4-Dichloro-2-Butene | 50.0000 | 53.5761 | -7.2 | 113 | 0.00 |
| 92 P | 1,1,2,2-Tetrachloroethane | 50.0000 | 47.7556 | 4.5 | 102 | 0.00 |
| 93 | Bromobenzene | 50.0000 | 49.0177 | 2.0 | 103 | 0.00 |
| 94 | 1,2,3-Trichloropropane | 50.0000 | 49.2272 | 1.5 | 103 | 0.00 |
| 95 | n-Propylbenzene | 50.0000 | 50.5206 | -1.0 | 101 | 0.00 |
| 96 | 2-Chlorotoluene | 50.0000 | 51.3652 | -2.7 | 107 | 0.00 |
| 97 | 3-Chlorotoluene | 50.0000 | 49.1502 | 1.7 | 100 | 0.00 |
| 98 | 4-Chlorotoluene | 50.0000 | 49.2336 | 1.5 | 101 | 0.00 |
| 99 | 1,3,5-Trimethylbenzene | 50.0000 | 51.3216 | -2.6 | 104 | 0.00 |
| 100 | tert-Butylbenzene | 50.0000 | 50.1446 | -0.3 | 102 | 0.00 |
| 101 | 1,2,4-Trimethylbenzene | 50.0000 | 52.0713 | -4.1 | 105 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\122917\
 Data File : P15162.D
 Acq On : 29 Dec 2017 9:43 pm
 Operator : K.Ruest
 Sample : ICV 50ppb Inst : MSVOA-12
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 02 15:22:52 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 102 | 3,4-DCBTF | 50.0000 | 48.0202 | 4.0 | 96 | 0.00 |
| 103 | sec-Butylbenzene | 50.0000 | 50.8496 | -1.7 | 102 | 0.00 |
| 104 | p-Isopropyltoluene | 50.0000 | 51.7027 | -3.4 | 104 | 0.00 |
| 105 P | 1,3-Dclbenz | 50.0000 | 50.3245 | -0.6 | 103 | 0.00 |
| 106 P | 1,4-Dclbenz | 50.0000 | 49.3074 | 1.4 | 105 | 0.00 |
| 107 | 2,4-DCBTF | 50.0000 | 47.7617 | 4.5 | 99 | 0.00 |
| 108 | 2,5-DCBTF | 50.0000 | 47.4753 | 5.0 | 98 | 0.00 |
| 109 | n-Butylbenzene | 50.0000 | 52.8775 | -5.8 | 105 | 0.00 |
| 110 P | 1,2-Dclbenz | 50.0000 | 50.8620 | -1.7 | 104 | 0.00 |
| 111 P | 1,2-Dibromo-3-chloropropane | 50.0000 | 47.4017 | 5.2 | 107 | 0.00 |
| 112 | Trielution Dichlorotoluene | 150.0000 | 148.2131 | 1.2 | 99 | 0.00 |
| 113 | 1,3,5 Trichlorobenzene | 50.0000 | 50.3797 | -0.8 | 101 | 0.00 |
| 114 | Coelution Dichlorotoluene | 100.0000 | 103.4644 | -3.5 | 100 | 0.00 |
| 115 P | 1,2,4-Tcbenzene | 50.0000 | 52.6198 | -5.2 | 103 | 0.00 |
| 116 | Hexachlorobt | 50.0000 | 48.8387 | 2.3 | 102 | 0.00 |
| 117 | Naphthalen | 50.0000 | 55.9552 | -11.9 | 106 | 0.00 |
| 118 | 1,2,3-Tclbenzene | 50.0000 | 54.0830 | -8.2 | 106 | 0.00 |
| 119 | 2,4,5-Trichlorotolene | 50.0000 | 53.9078 | -7.8 | 99 | 0.00 |
| 120 | 2,3,6-Trichlorotoluene | 50.0000 | 54.8488 | -9.7 | 103 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|-------------|---|------------------|
| 01 | RC1800001-01 | 0.5ppb | I:\ACQUADATA\msvoa12\Data\122917\P15150.D | 12/29/2017 17:22 |
| 02 | RC1800001-02 | 1.0ppb | I:\ACQUADATA\msvoa12\Data\122917\P15151.D | 12/29/2017 17:44 |
| 03 | RC1800001-03 | 2.0ppb | I:\ACQUADATA\msvoa12\Data\122917\P15152.D | 12/29/2017 18:06 |
| 04 | RC1800001-04 | 5.0ppb | I:\ACQUADATA\msvoa12\Data\122917\P15153.D | 12/29/2017 18:28 |
| 05 | RC1800001-05 | 20ppb | I:\ACQUADATA\msvoa12\Data\122917\P15154.D | 12/29/2017 18:49 |
| 06 | RC1800001-06 | 50ppb | I:\ACQUADATA\msvoa12\Data\122917\P15155.D | 12/29/2017 19:11 |
| 07 | RC1800001-07 | 100ppb | I:\ACQUADATA\msvoa12\Data\122917\P15156.D | 12/29/2017 19:32 |
| 08 | RC1800001-08 | 150ppb | I:\ACQUADATA\msvoa12\Data\122917\P15157.D | 12/29/2017 19:54 |
| 09 | RC1800001-09 | 200ppb | I:\ACQUADATA\msvoa12\Data\122917\P15158.D | 12/29/2017 20:16 |

Analyte

1,1,1-Trichloroethane (TCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 1.008 | 02 | 1.000 | 0.8324 | 03 | 2.000 | 0.8305 | 04 | 5.000 | 0.8263 |
| 05 | 20.000 | 0.7547 | 06 | 50.000 | 0.7586 | 07 | 100.000 | 0.8393 | 08 | 150.000 | 0.7559 |
| 09 | 200.000 | 0.7763 | | | | | | | | | |

1,1-Dichloroethane (1,1-DCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 1.023 | 02 | 1.000 | 0.9379 | 03 | 2.000 | 0.9779 | 04 | 5.000 | 0.947 |
| 05 | 20.000 | 0.9354 | 06 | 50.000 | 0.9464 | 07 | 100.000 | 1.023 | 08 | 150.000 | 0.9294 |
| 09 | 200.000 | 0.9449 | | | | | | | | | |

1,1-Dichloroethene (1,1-DCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.6988 | 02 | 1.000 | 0.5509 | 03 | 2.000 | 0.4889 | 04 | 5.000 | 0.5238 |
| 05 | 20.000 | 0.4587 | 06 | 50.000 | 0.4697 | 07 | 100.000 | 0.5076 | 08 | 150.000 | 0.4531 |
| 09 | 200.000 | 0.4707 | | | | | | | | | |

4-Bromofluorobenzene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|-------|----|---------|--------|
| 04 | 10.000 | 0.5995 | 05 | 20.000 | 0.4536 | 06 | 50.000 | 0.506 | 07 | 100.000 | 0.5177 |
| 08 | 200.000 | 0.4877 | | | | | | | | | |

Dibromofluoromethane

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|--------|----|---------|--------|
| 04 | 10.000 | 0.3386 | 05 | 20.000 | 0.2707 | 06 | 50.000 | 0.2965 | 07 | 100.000 | 0.2994 |
| 08 | 200.000 | 0.2791 | | | | | | | | | |

Tetrachloroethene (PCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.3073 | 02 | 1.000 | 0.2917 | 03 | 2.000 | 0.2929 | 04 | 5.000 | 0.2841 |
| 05 | 20.000 | 0.2475 | 06 | 50.000 | 0.2643 | 07 | 100.000 | 0.2816 | 08 | 150.000 | 0.2552 |
| 09 | 200.000 | 0.2587 | | | | | | | | | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|-------|----|--------|-------|----|--------|------|----|---------|-------|
| 04 | 10.000 | 1.572 | 05 | 20.000 | 1.232 | 06 | 50.000 | 1.33 | 07 | 100.000 | 1.308 |
| 08 | 200.000 | 1.186 | | | | | | | | | |

Trichloroethene (TCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.3925 | 02 | 1.000 | 0.3488 | 03 | 2.000 | 0.309 | 04 | 5.000 | 0.3231 |
| 05 | 20.000 | 0.3163 | 06 | 50.000 | 0.3352 | 07 | 100.000 | 0.3524 | 08 | 150.000 | 0.3143 |
| 09 | 200.000 | 0.3228 | | | | | | | | | |

Vinyl Chloride

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.7871 | 02 | 1.000 | 0.616 | 03 | 2.000 | 0.7275 | 04 | 5.000 | 0.749 |
| 05 | 20.000 | 0.7515 | 06 | 50.000 | 0.7481 | 07 | 100.000 | 0.8085 | 08 | 150.000 | 0.7308 |
| 09 | 200.000 | 0.7463 | | | | | | | | | |

cis-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.6166 | 02 | 1.000 | 0.5455 | 03 | 2.000 | 0.6365 | 04 | 5.000 | 0.638 |
| 05 | 20.000 | 0.5786 | 06 | 50.000 | 0.5775 | 07 | 100.000 | 0.6218 | 08 | 150.000 | 0.5765 |
| 09 | 200.000 | 0.584 | | | | | | | | | |

trans-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.5602 | 02 | 1.000 | 0.5063 | 03 | 2.000 | 0.5366 | 04 | 5.000 | 0.5328 |
| 05 | 20.000 | 0.5048 | 06 | 50.000 | 0.5129 | 07 | 100.000 | 0.551 | 08 | 150.000 | 0.5016 |
| 09 | 200.000 | 0.5153 | | | | | | | | | |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

**Initial Calibration Summary
Volatile Organic Compounds by GC/MS**

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

| Analyte Name | Compound Type | Calibration Evaluation | | | | Calibration Evaluation | |
|------------------------------|---------------|------------------------|-------|-------------|------------------|------------------------|-------------|
| | | Fit Type | Eval | Eval Result | Control Criteria | Average RRF | Minimum RRF |
| 1,1,1-Trichloroethane (TCA) | TRG | Average RF | % RSD | 9.7 | 20 | 0.8203 | 0.100 |
| 1,1-Dichloroethane (1,1-DCA) | TRG | Average RF | % RSD | 3.8 | 20 | 0.9627 | 0.200 |
| 1,1-Dichloroethene (1,1-DCE) | TRG | Average RF | % RSD | 14.9 | 20 | 0.5136 | 0.100 |
| 4-Bromofluorobenzene | SURR | Average RF | % RSD | 10.6 | 20 | 0.5129 | |
| Dibromofluoromethane | SURR | Average RF | % RSD | 8.8 | 20 | 0.2969 | |
| Tetrachloroethene (PCE) | TRG | Average RF | % RSD | 7.3 | 20 | 0.2759 | 0.200 |
| Toluene-d8 | SURR | Average RF | % RSD | 11.3 | 20 | 1.326 | |
| Trichloroethene (TCE) | TRG | Average RF | % RSD | 7.9 | 20 | 0.335 | 0.200 |
| Vinyl Chloride | TRG | Average RF | % RSD | 7.2 | 20 | 0.7405 | 0.100 |
| cis-1,2-Dichloroethene | TRG | Average RF | % RSD | 5.4 | 20 | 0.5972 | 0.100 |
| trans-1,2-Dichloroethene | TRG | Average RF | % RSD | 4.1 | 20 | 0.5246 | 0.100 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|-------------|---|------------------|
| 11 | RC1800001-11 | ICV/LCS | I:\ACQUADATA\msvoa12\Data\010318\P15169.D | 01/03/2018 11:34 |
| 10 | RC1800001-10 | ICV 50ppb | I:\ACQUADATA\msvoa12\Data\122917\P15162.D | 12/29/2017 21:43 |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|----------|--------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 48.3 | 8.203E-1 | 7.924E-1 | -3.403 | ±30 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 49.5 | 9.627E-1 | 9.532E-1 | -0.989 | ±30 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 45.0 | 5.136E-1 | 4.624E-1 | -9.964 | ±30 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 47.6 | 2.759E-1 | 2.628E-1 | -4.770 | ±30 | Average RF |
| Trichloroethene (TCE) | 50.0 | 50.5 | 3.35E-1 | 3.381E-1 | 0.937 | ±30 | Average RF |
| Vinyl Chloride | 50.0 | 46.8 | 7.405E-1 | 6.925E-1 | -6.488 | ±30 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 48.0 | 5.972E-1 | 5.73E-1 | -4.053 | ±30 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 47.9 | 5.246E-1 | 5.03E-1 | -4.128 | ±30 | Average RF |
| 4-Bromofluorobenzene | 50.0 | 48.2 | 5.129E-1 | 4.943E-1 | -3.624 | ±30 | Average RF |
| Dibromofluoromethane | 50.0 | 49.6 | 2.969E-1 | 2.947E-1 | -0.725 | ±30 | Average RF |
| Toluene-d8 | 50.0 | 49.1 | 1.326E0 | 1.302E0 | -1.787 | ±30 | Average RF |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551
Date Analyzed: 03/27/18 10:32

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\032718\P16694.D\
Signal ID: 1

Calibration Date: 12/29/2017
Calibration ID: RC1800001
Analysis Lot: 585036
Units: ppb

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|-------|---------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 43.0 | 0.8203 | 0.7055 | -14.0 | NA | ±20 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 54.4 | 0.9627 | 1.0471 | 8.8 | NA | ±20 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 46.8 | 0.5136 | 0.4806 | -6.4 | NA | ±20 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 47.5 | 0.2759 | 0.2621 | -5.0 | NA | ±20 | Average RF |
| Trichloroethene (TCE) | 50.0 | 46.5 | 0.335 | 0.3113 | -7.1 | NA | ±20 | Average RF |
| Vinyl Chloride | 50.0 | 51.1 | 0.7405 | 0.7573 | 2.3 | NA | ±20 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 51.4 | 0.5972 | 0.6142 | 2.9 | NA | ±20 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 49.8 | 0.5246 | 0.5226 | -0.4 | NA | ±20 | Average RF |
| 4-Bromofluorobenzene | 50.0 | 46.5 | 0.5129 | 0.4774 | -6.9 | NA | ±20 | Average RF |
| Dibromofluoromethane | 50.0 | 46.9 | 0.2969 | 0.2784 | -6.2 | NA | ±20 | Average RF |
| Toluene-d8 | 50.0 | 49.4 | 1.3256 | 1.3097 | -1.2 | NA | ±20 | Average RF |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:585036
Instrument ID:R-MS-12

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|-------------------------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUADATA\msvoa12\Data\032718\P16693.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 10:03:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16694.D\ | Continuing Calibration Verification | RQ1802745-02 | 3/27/2018 | 10:32:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16696.D\ | Lab Control Sample | RQ1802745-03 | 3/27/2018 | 11:30:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16698.D\ | Method Blank | RQ1802745-04 | 3/27/2018 | 12:22:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16699.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 12:54:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16700.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 13:15:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16701.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 13:37:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16702.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 13:59:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16703.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 14:21:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16704.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 14:43:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16705.D\ | MW-10 | R1802551-002 | 3/27/2018 | 15:05:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16706.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 15:27:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16708.D\ | Trip Blank | R1802551-001 | 3/27/2018 | 16:10:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16709.D\ | EB-032018 | R1802551-007 | 3/27/2018 | 16:32:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16710.D\ | EB-032218 | R1802551-008 | 3/27/2018 | 16:54:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16711.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 17:16:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16712.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 17:38:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16713.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 18:00:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16714.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 18:21:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16715.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 18:43:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16716.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 19:05:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16717.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 19:27:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16718.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 19:49:00 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:585036
Instrument ID:R-MS-12

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|--------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUDATA\msvoa12\Data\032718 \P16719.D\ | MW-10 MS | RQ1802745-05 | 3/27/2018 | 20:11:00 | |
| I:\ACQUDATA\msvoa12\Data\032718 \P16720.D\ | MW-10 DMS | RQ1802745-06 | 3/27/2018 | 20:33:00 | |

Analysis: 82602020202 Analyst: V. Bueck pH strips: 206717 Tune Method: W122917
 Date: 3/27/18 Balance ID: N/A ResCl strips: 0/A Run Method: ↓
 Instr: 12 50 mL Class A used for dilution FV Syringes: 177916 LIMS Run#: 585036

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Tier | Vial | pH | File# | OK? | Comments |
|------|--------------|-------|------------------------|------|------|------|------|--------|-----|----------------|
| 1 | BUL | | | | | | | P16691 | | ↑ EMV |
| 2 | ↓ | | | | | | | P16692 | | |
| 3 | NVE | | P1502550-01 | | | | | P16693 | Y | (cont'd) 10:03 |
| 1 | CCV | | | | | | | P16694 | Y | |
| 1 | LC5 | | | | | | | P16695 | Y | NP - FT-SWIFT |
| 1 | LC5 | | | | | | | P16696 | Y | |
| 1 | VBUL | | | | | | | P16697 | Y | not c/o |
| 2 | ↓ | | | | | | | P16698 | Y | |
| 1 | P1502550.002 | 1.0 | | 6646 | 4 | 2 | (22) | P16699 | Y | |
| 2 | P1502551.003 | 1.0 | | 7979 | 1 | 8 | | P16700 | Y | |
| 3 | | 1.0 | | | | 8 | | P16701 | Y | |
| 4 | | 1.0 | | | | 8 | | P16702 | Y | |
| 5 | | 1.0 | | | | 8 | | P16703 | Y | |
| 6 | | 1.0 | | | | 8 | | P16704 | Y | |
| 7 | | 1.0 | | 6646 | 1 | 6 | (22) | P16705 | Y | |
| 8 | BUL (V) | 1.0 | 5/20mils P1502550 | 7979 | 1 | 6 | | P16706 | Y | |
| 9 | BUL | | | | | | | P16707 | - | |
| 10 | P1502551.001 | 1.0 | | 6646 | 4 | 1 | (22) | P16708 | Y | |
| 11 | | 1.0 | | | | 1 | (22) | P16709 | Y | |
| 12 | ↓ | 1.0 | | | | 1 | (22) | P16710 | Y | |
| 13 | P1502550.024 | 1.0 | | | | 1 | (22) | P16711 | Y | |
| 14 | | 1.0 | | | | 1 | (22) | P16712 | Y | |
| 15 | | 1.0 | | | | 1 | (22) | P16713 | Y | |
| 16 | | 1.0 | | | | 1 | (22) | P16714 | Y | |
| 17 | | 1.0 | | | | 1 | (22) | P16715 | Y | |
| 18 | | 1.0 | | | | 1 | (22) | P16716 | Y | |
| 19 | | 1.0 | | | | 1 | (22) | P16717 | Y | |
| 20 | | 1.0 | | | | 1 | (22) | P16718 | Y | |
| 21 | MS | 1.0 | P1502545.05 (2551) (V) | | | 2 | (22) | P16719 | Y | |
| 22 | MSD | 1.0 | ↓ | | | 3 | (22) | P16720 | Y | |
| 23 | BUL | | | | | | | P16721 | | |

All samples = 5 mL + 5 mL combined IS/Surr. 5 mL purged

500 Primary CC+ : 188712
 Primary FT+ : 188685
 Primary T6 : 188593
 Primary H2L : 188582

200 Secondary FT+ : 188211 - 5 mL
 Secondary CC+ : 188751
 Secondary H2L : 188309
 Secondary T6 : 188809

Surrogate SD : 188052
 Internal Std SD : 188051
 Reagents: _____
 Combined IS/Surr. _____
 Runlog-MSV0A4 1/17/17

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 09:45
Date Received: 03/23/18 09:40

Sample Name: MW-17
Lab Code: R1802551-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.53 J | 1.0 | 0.36 | 1 | 03/27/18 13:15 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.8 | 1.0 | 0.20 | 1 | 03/27/18 13:15 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 13:15 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:15 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.22 | 1 | 03/27/18 13:15 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 13:15 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:15 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 13:15 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 13:15 | |
| Dibromofluoromethane | 91 | 89 - 119 | 03/27/18 13:15 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 13:15 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 10:35
Date Received: 03/23/18 09:40

Sample Name: MW-8
Lab Code: R1802551-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.9 | 1.0 | 0.36 | 1 | 03/27/18 13:37 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.2 | 1.0 | 0.20 | 1 | 03/27/18 13:37 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 13:37 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:37 | |
| Trichloroethene (TCE) | 50 | 1.0 | 0.22 | 1 | 03/27/18 13:37 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 13:37 | |
| cis-1,2-Dichloroethene | 67 | 1.0 | 0.30 | 1 | 03/27/18 13:37 | |
| trans-1,2-Dichloroethene | 0.33 J | 1.0 | 0.33 | 1 | 03/27/18 13:37 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 03/27/18 13:37 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 13:37 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 13:37 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 11:25
Date Received: 03/23/18 09:40

Sample Name: MW-16
Lab Code: R1802551-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 2.8 | 1.0 | 0.36 | 1 | 03/27/18 13:59 | |
| 1,1-Dichloroethane (1,1-DCA) | 7.7 | 1.0 | 0.20 | 1 | 03/27/18 13:59 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 13:59 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 13:59 | |
| Trichloroethene (TCE) | 2.4 | 1.0 | 0.22 | 1 | 03/27/18 13:59 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 13:59 | |
| cis-1,2-Dichloroethene | 15 | 1.0 | 0.30 | 1 | 03/27/18 13:59 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 13:59 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 03/27/18 13:59 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 13:59 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 13:59 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18 12:25
Date Received: 03/23/18 09:40

Sample Name: MW-9
Lab Code: R1802551-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.36 | 1 | 03/27/18 14:21 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 03/27/18 14:21 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 14:21 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 14:21 | |
| Trichloroethene (TCE) | 5.9 | 1.0 | 0.22 | 1 | 03/27/18 14:21 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 14:21 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 14:21 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 14:21 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 95 | 85 - 122 | 03/27/18 14:21 | |
| Dibromofluoromethane | 90 | 89 - 119 | 03/27/18 14:21 | |
| Toluene-d8 | 100 | 87 - 121 | 03/27/18 14:21 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1802551
Date Collected: 03/22/18
Date Received: 03/23/18 09:40

Sample Name: DUP-032218
Lab Code: R1802551-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

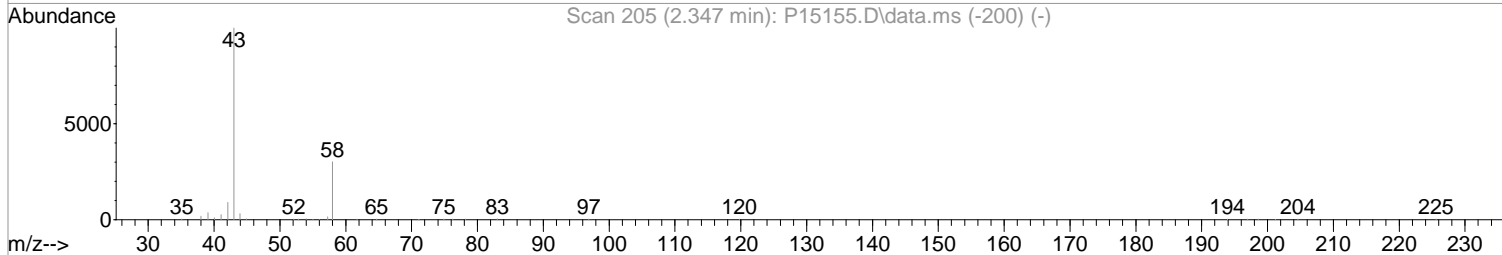
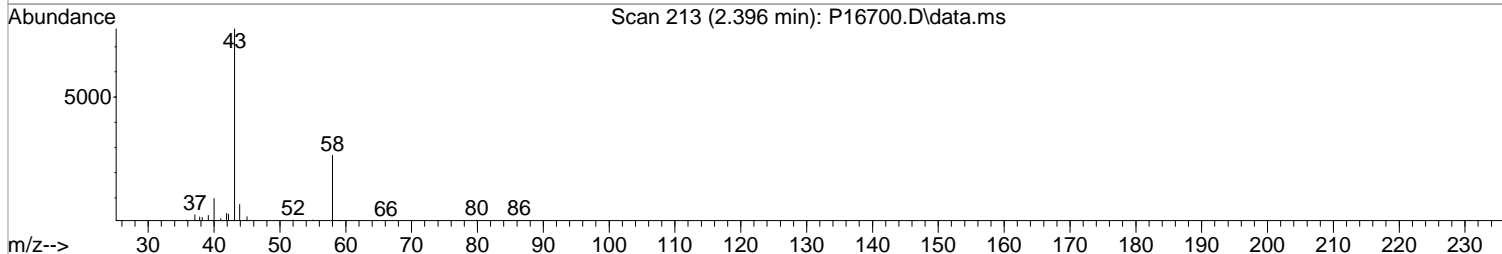
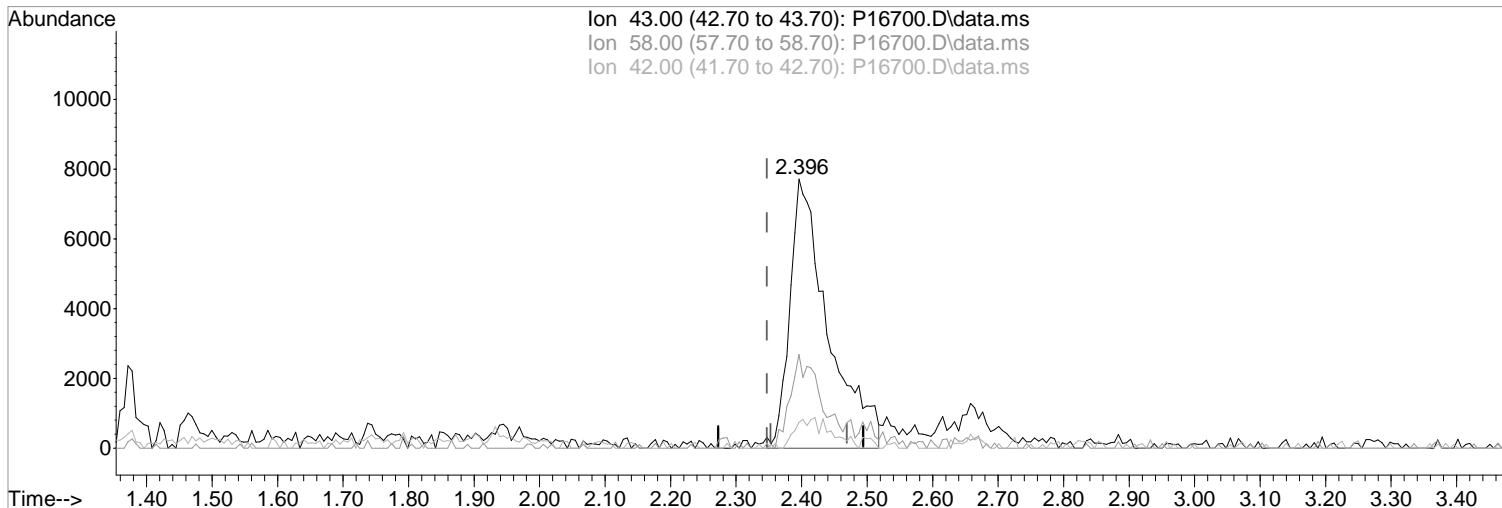
| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 2.5 | 1.0 | 0.36 | 1 | 03/27/18 14:43 | |
| 1,1-Dichloroethane (1,1-DCA) | 7.3 | 1.0 | 0.20 | 1 | 03/27/18 14:43 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.57 | 1 | 03/27/18 14:43 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.30 | 1 | 03/27/18 14:43 | |
| Trichloroethene (TCE) | 2.3 | 1.0 | 0.22 | 1 | 03/27/18 14:43 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.32 | 1 | 03/27/18 14:43 | |
| cis-1,2-Dichloroethene | 14 | 1.0 | 0.30 | 1 | 03/27/18 14:43 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.33 | 1 | 03/27/18 14:43 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 03/27/18 14:43 | |
| Dibromofluoromethane | 92 | 89 - 119 | 03/27/18 14:43 | |
| Toluene-d8 | 99 | 87 - 121 | 03/27/18 14:43 | |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16700.D
Acq On : 27 Mar 2018 1:15 pm
Operator : K.Ruest
Sample : R1802551-003|1.0
Misc : VERINA 8260 T4
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 13:39:29 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16700.D\data.ms

(15) Acetone (P)
2.396min (+0.049) 15.64 ppb m
response 31109

Manual Integration:

After

Poor integration.

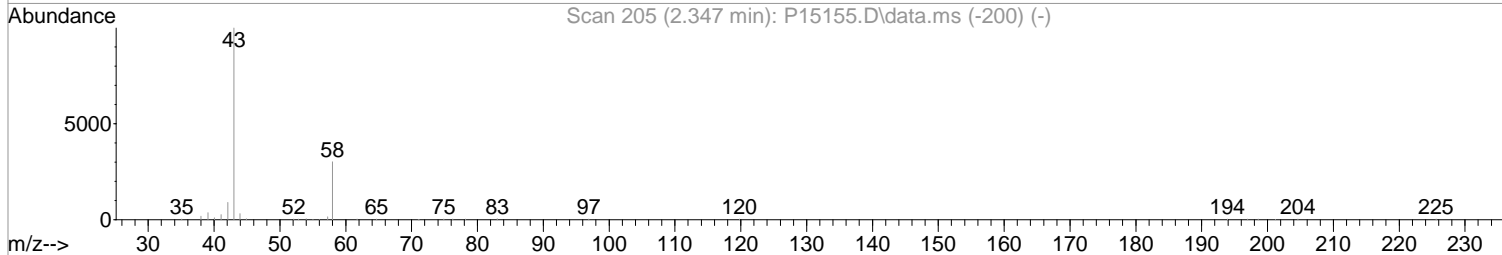
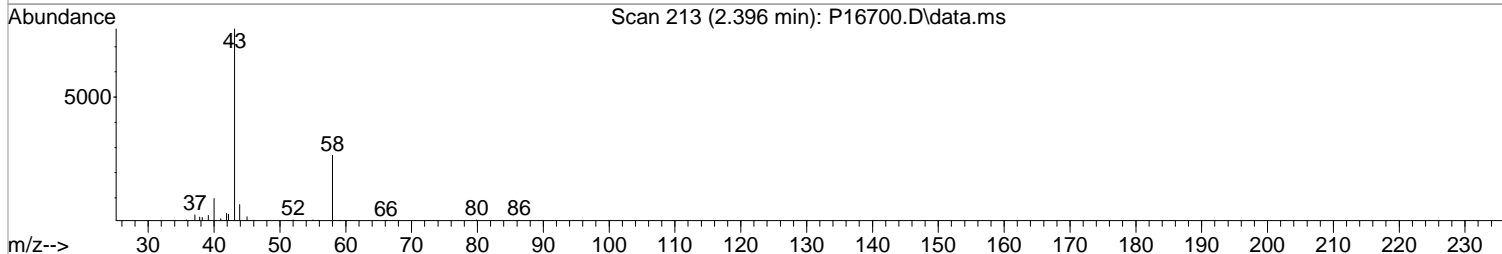
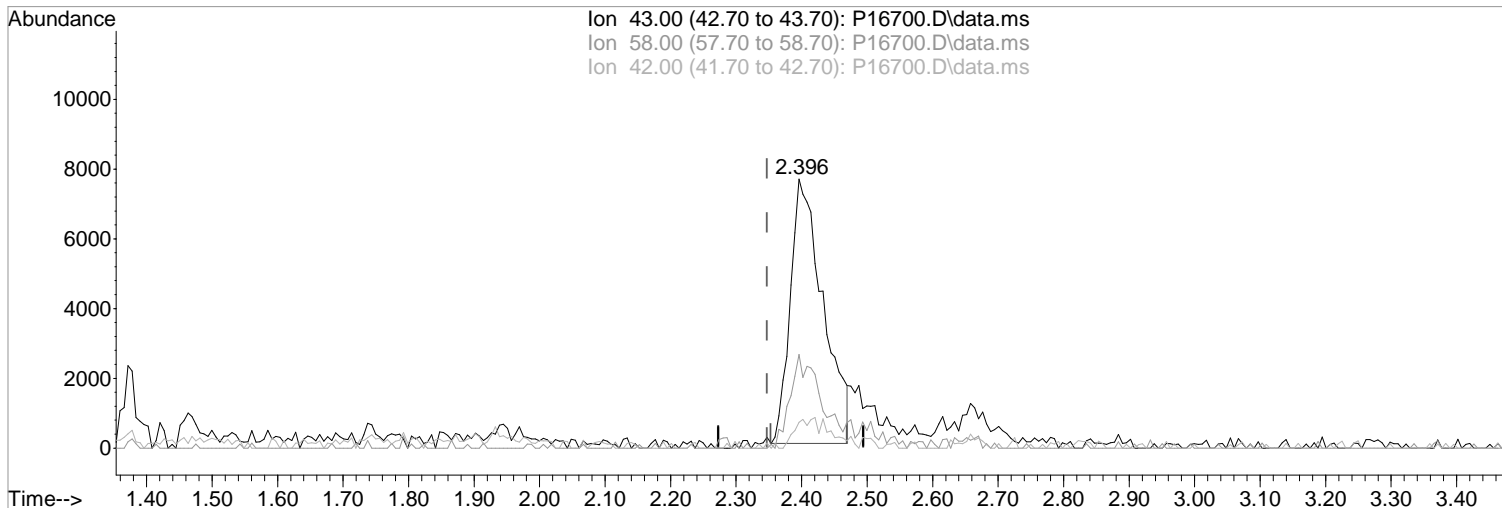
03/27/18

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 29.70 | 34.78 |
| 42.00 | 9.20 | 4.94 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16700.D
Acq On : 27 Mar 2018 1:15 pm
Operator : K.Ruest
Sample : R1802551-003|1.0
Misc : VERINA 8260 T4
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 13:39:29 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16700.D\data.ms

(15) Acetone (P)
2.396min (+0.049) 13.22 ppb
response 26298

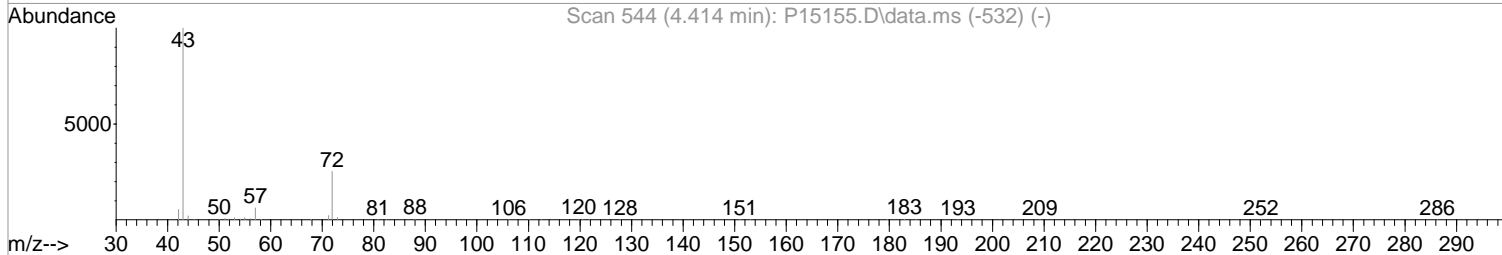
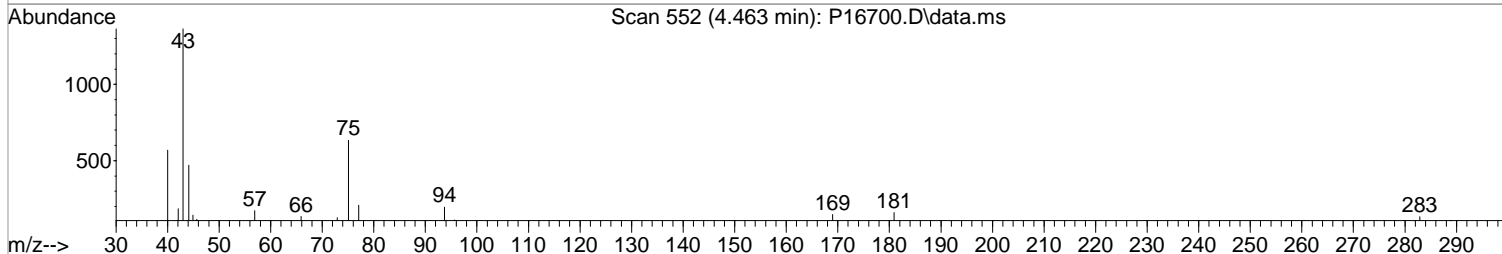
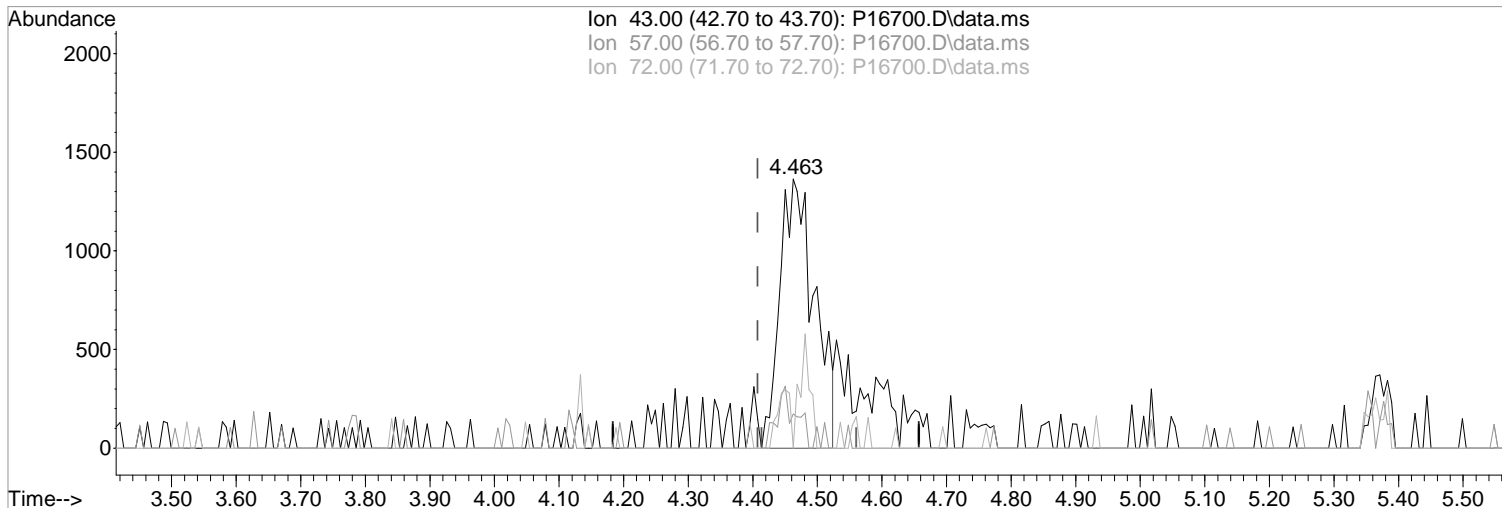
Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 29.70 | 34.78 |
| 42.00 | 9.20 | 9.57 |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16700.D
 Acq On : 27 Mar 2018 1:15 pm
 Operator : K.Ruest
 Sample : R1802551-003|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 13:39:29 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration



TIC: P16700.D\data.ms

(35) 2-Butanone (P)
 4.463min (+0.055) 2.04 ppb m
 response 5102

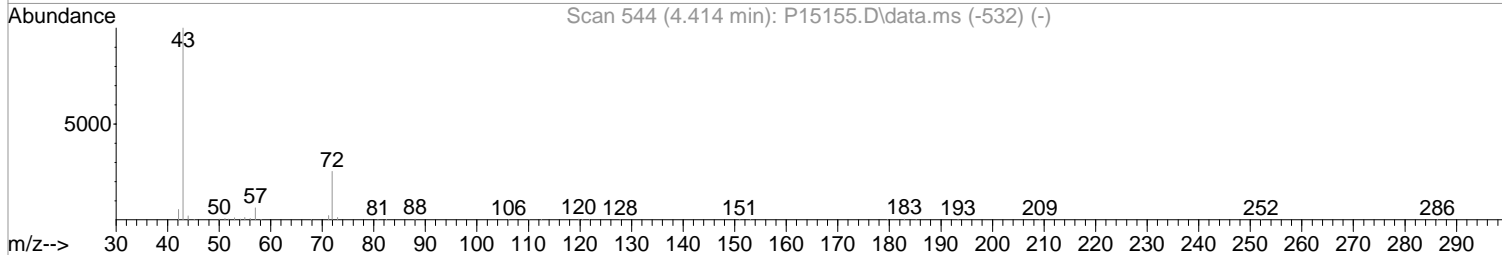
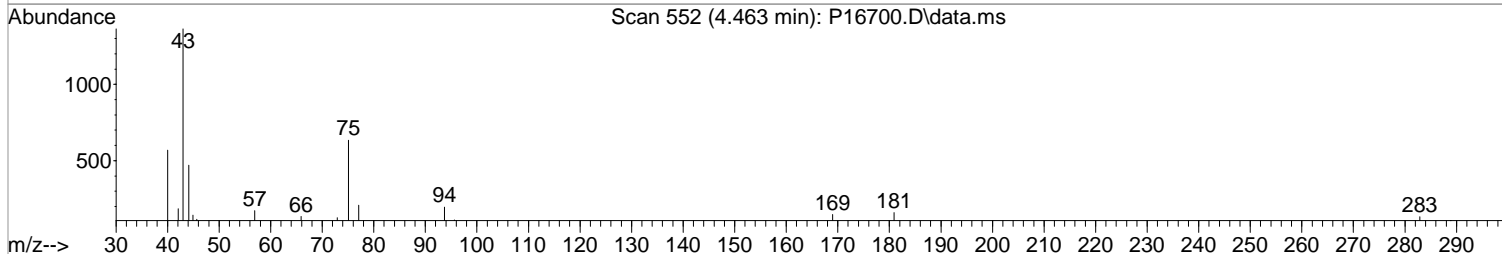
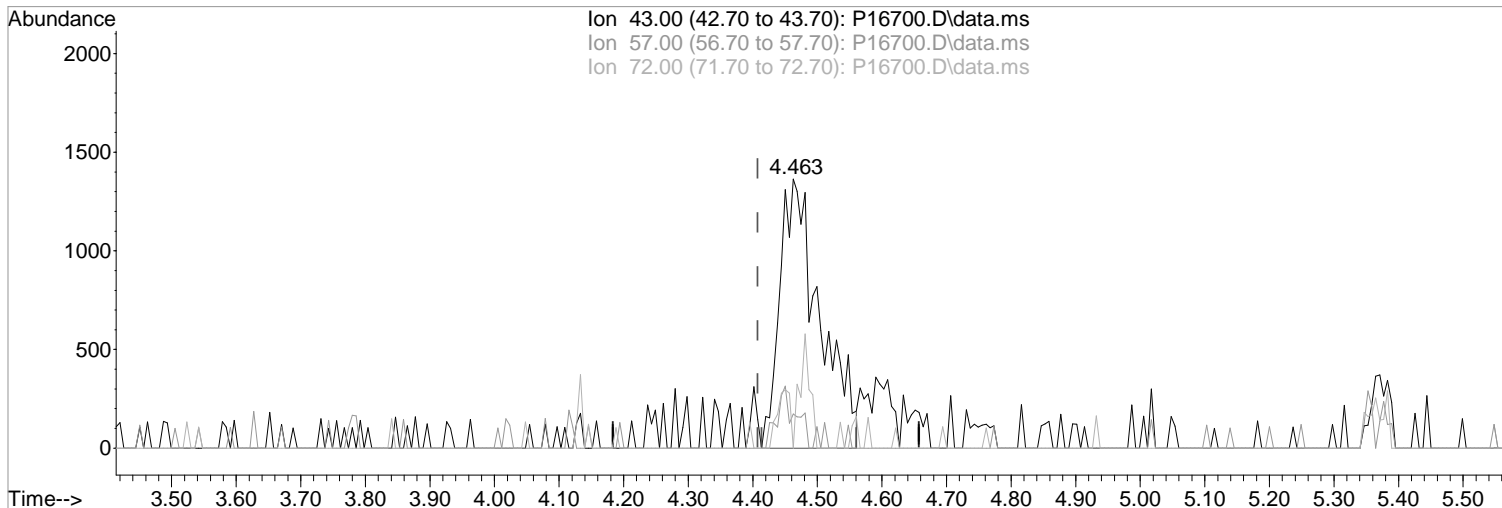
Manual Integration:
 After
 Poor integration.

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 57.00 | 6.70 | 12.68 |
| 72.00 | 26.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16700.D
Acq On : 27 Mar 2018 1:15 pm
Operator : K.Ruest
Sample : R1802551-003|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 13:39:29 2018
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16700.D\data.ms

(35) 2-Butanone (P)
4.463min (+0.055) 2.35 ppb
response 5864
Ion Exp% Act%
43.00 100 100
57.00 6.70 12.68
72.00 26.10 0.00#
0.00 0.00 0.00

Manual Integration:
Before
03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16700.D
 Acq On : 27 Mar 2018 1:15 pm
 Operator : K.Ruest
 Sample : R1802551-003|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 16:53:22 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

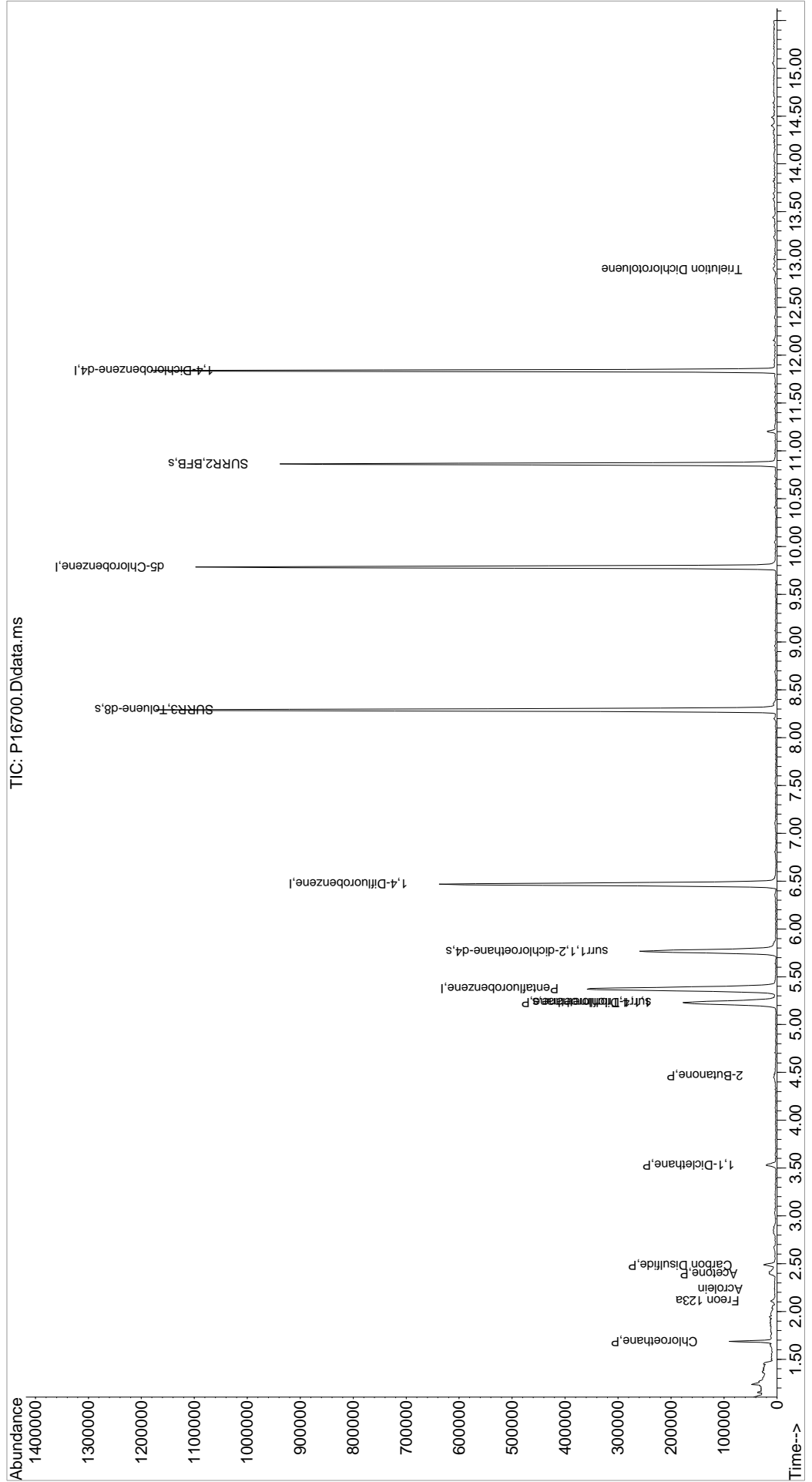
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|----------------|----------|-------|--------|-----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 326286 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 554963 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 484861 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 236506 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 149424 | 45.35 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 90.70% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 222605 | 49.30 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 98.60% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 732224 | 49.76 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 99.52% | |
| 70) SURR2,BFB | 10.864 | 95 | 263187 | 46.23 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 92.46% | |
| Target Compounds | | | | | | |
| 6) Chloroethane | 1.689 | 64 | 44718 | 14.82 | ppb | Qvalue 97 |
| 10) Freon 123a | 2.109 | 67 | 3347 | 0.85 | ppb | 86 |
| 12) Acrolein | 2.237 | 56 | 1073 | 1.11 | ppb | 87 |
| 15) Acetone | 2.396 | 43 | 31109m | 15.64 | ppb | |
| 18) Carbon Disulfide | 2.487 | 76 | 22321 | 2.28 | ppb | 95 |
| 28) 1,1-Dicethane | 3.530 | 63 | 17304 | 2.75 | ppb | 97 |
| 35) 2-Butanone | 4.463 | 43 | 5102m | 2.04 | ppb | |
| 41) 1,1,1-Trichloroethane | 5.231 | 97 | 2849 | 0.53 | ppb | # 79 |
| 112) Trielution Dichlorotol... | 12.894 | 125 | 1712 | 0.24 | ppb | 95 |

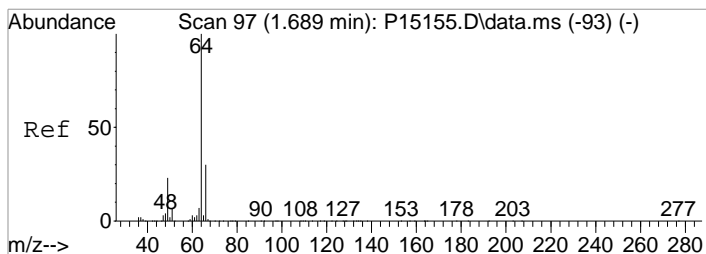
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16700.D
 Acq On : 27 Mar 2018 1:15 pm
 Operator : K.Ruest
 Sample : R1802551-003|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

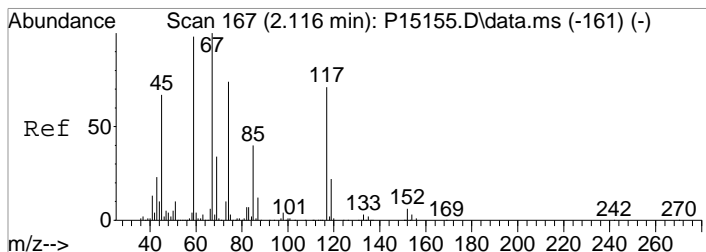
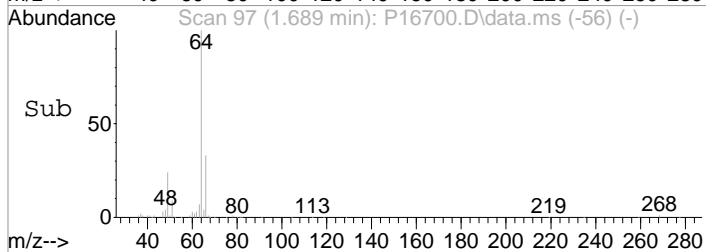
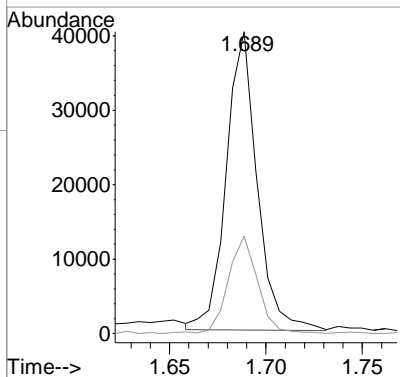
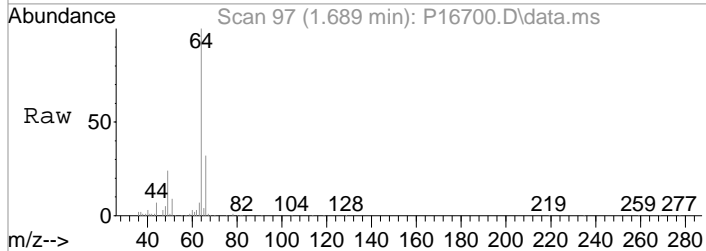
Quant Time: Mar 27 16:53:22 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





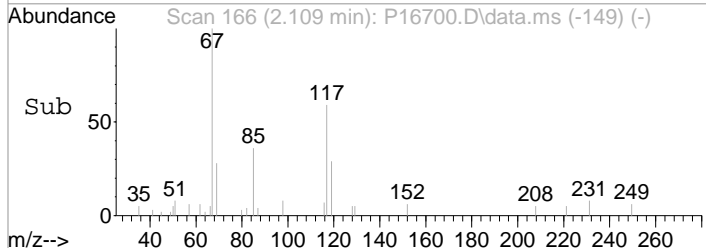
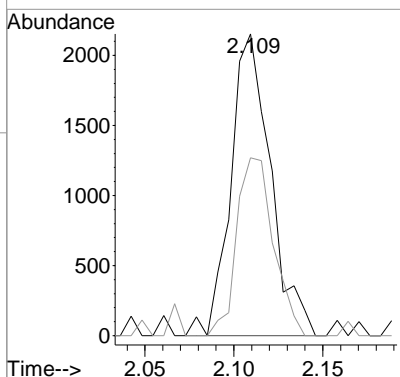
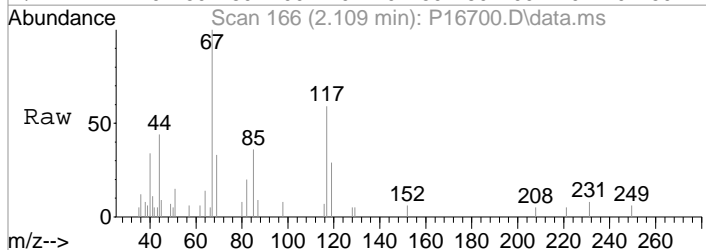
#6
 Chloroethane
 Concen: 14.82 ppb
 RT: 1.689 min Scan# 97
 Delta R.T. 0.006 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

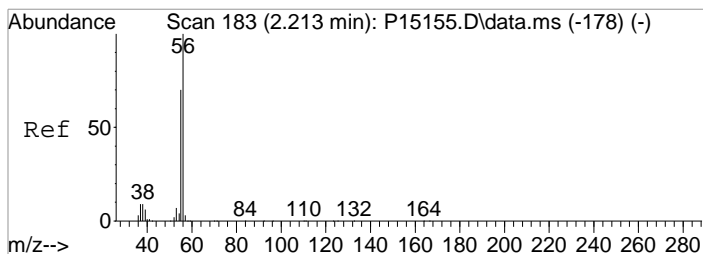
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 64 | 100 | | |
| 66 | 32.2 | 10.4 | 50.4 |



#10
 Freon 123a
 Concen: 0.85 ppb
 RT: 2.109 min Scan# 166
 Delta R.T. -0.012 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

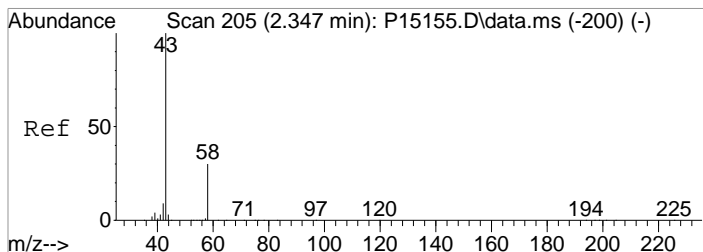
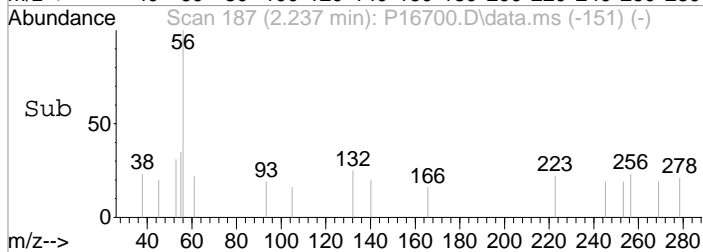
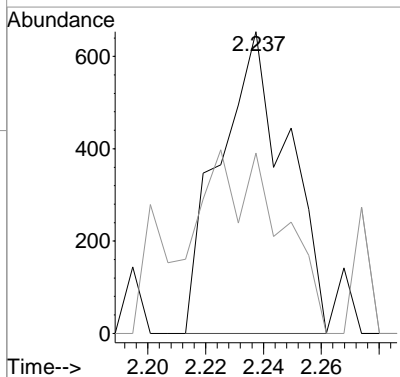
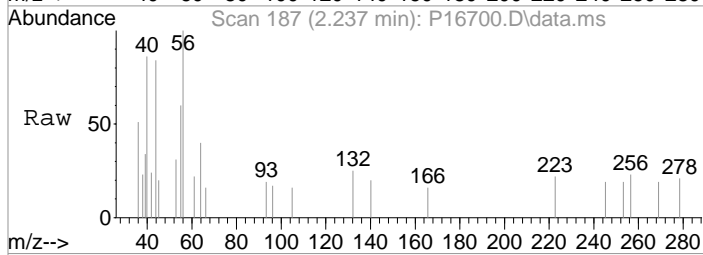
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 67 | 100 | | |
| 117 | 59.0 | 50.3 | 90.3 |





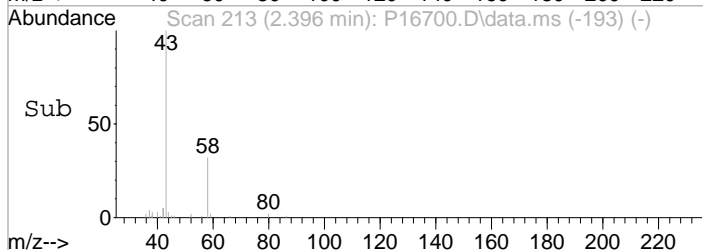
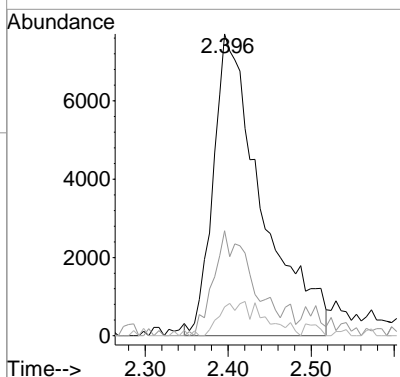
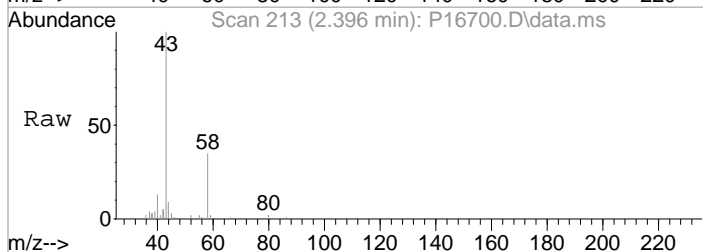
#12
 Acrolein
 Concen: 1.11 ppb
 RT: 2.237 min Scan# 187
 Delta R.T. 0.018 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

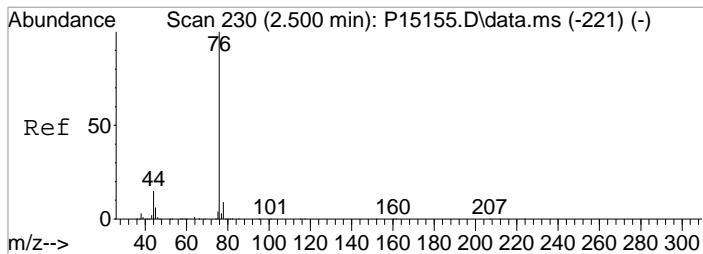
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 56 | 1073 | | |
| 55 | 59.8 | 50.5 | 90.5 |



#15
 Acetone
 Concen: 15.64 ppb m
 RT: 2.396 min Scan# 213
 Delta R.T. 0.049 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

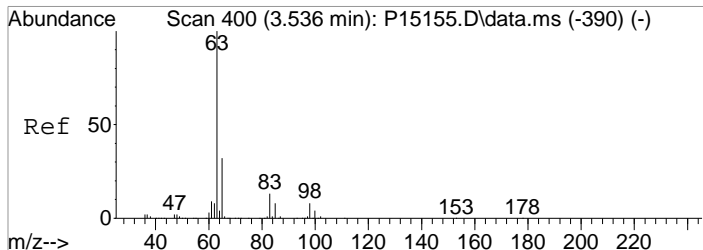
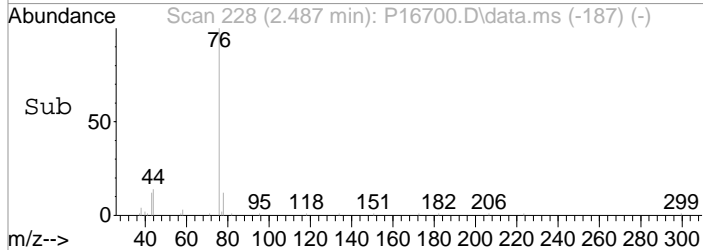
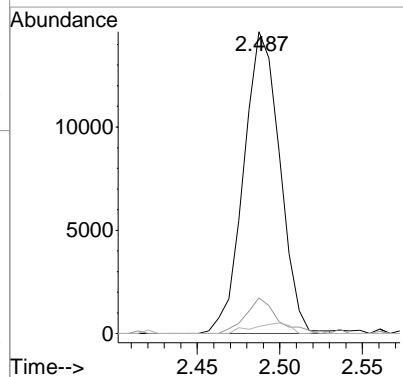
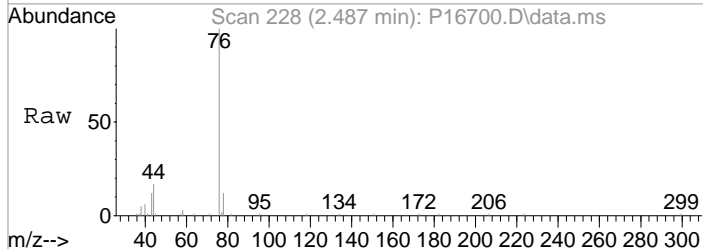
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 31109 | | |
| 58 | 34.8 | 9.7 | 49.7 |
| 42 | 4.9 | 0.0 | 29.2 |





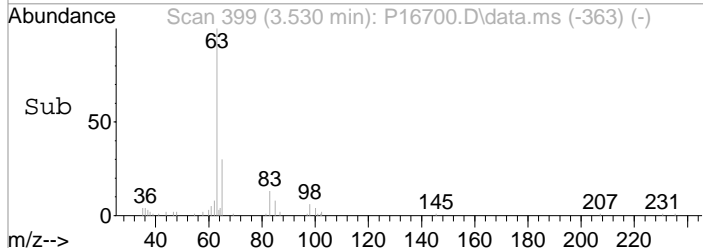
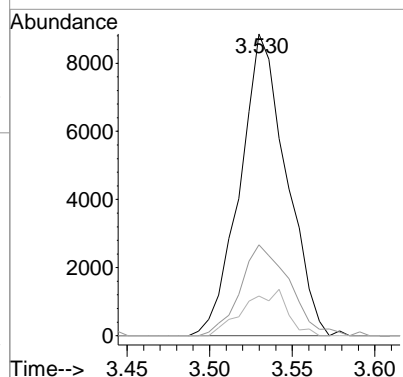
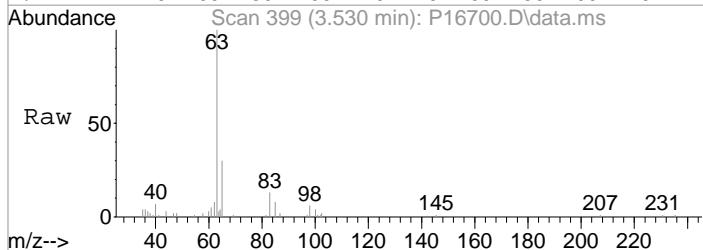
#18
 Carbon Disulfide
 Concen: 2.28 ppb
 RT: 2.487 min Scan# 228
 Delta R.T. -0.006 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

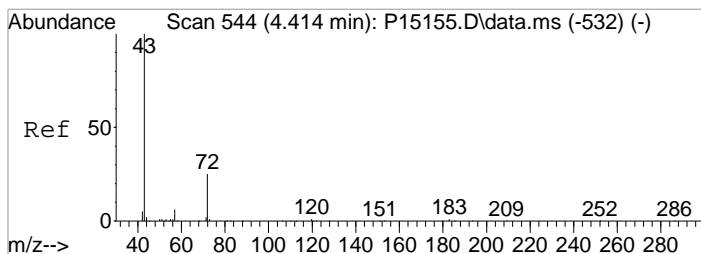
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 76 | 100 | | |
| 78 | 11.8 | 0.0 | 29.5 |
| 77 | 2.4 | 0.0 | 23.1 |



#28
 1,1-Dicylethane
 Concen: 2.75 ppb
 RT: 3.530 min Scan# 399
 Delta R.T. -0.006 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

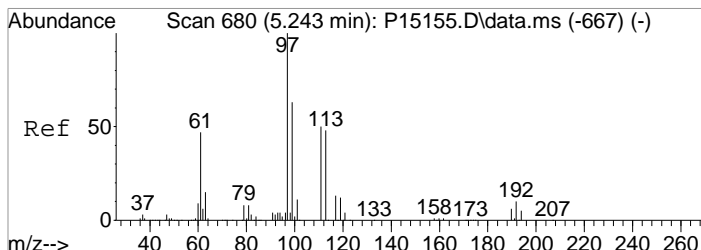
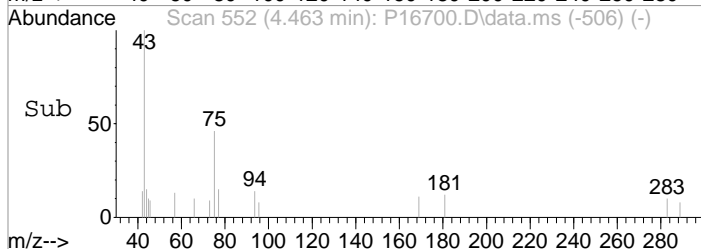
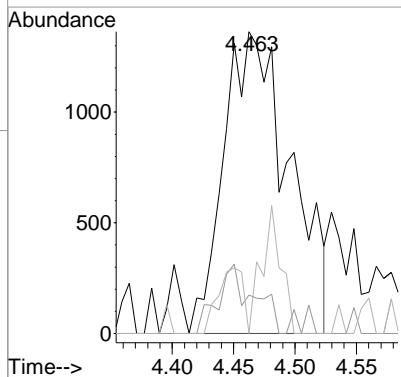
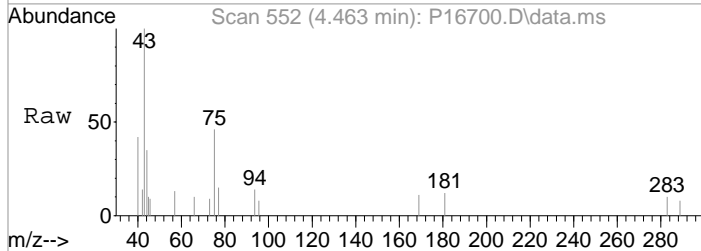
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 63 | 100 | | |
| 65 | 30.1 | 12.3 | 52.3 |
| 83 | 13.1 | 0.0 | 33.4 |





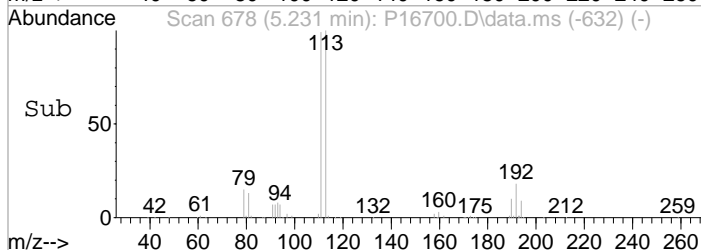
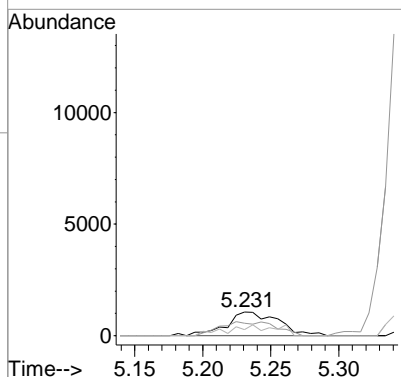
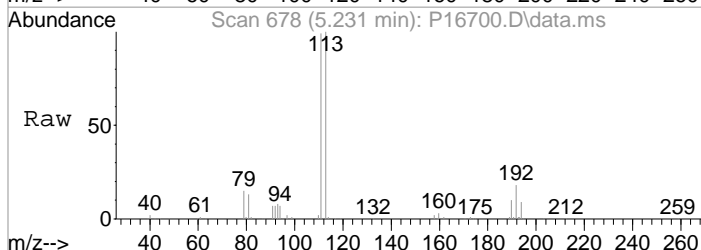
#35
 2-Butanone
 Concen: 2.04 ppb m
 RT: 4.463 min Scan# 552
 Delta R.T. 0.055 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

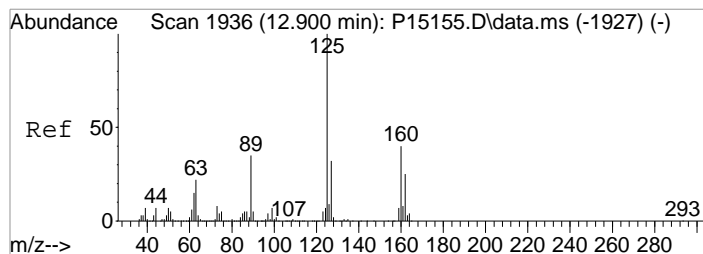
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 5102 | | |
| 57 | 12.7 | 0.0 | 26.7 |
| 72 | 0.0 | 6.1 | 46.1# |



#41
 1,1,1-Trichloroethane
 Concen: 0.53 ppb
 RT: 5.231 min Scan# 678
 Delta R.T. -0.000 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

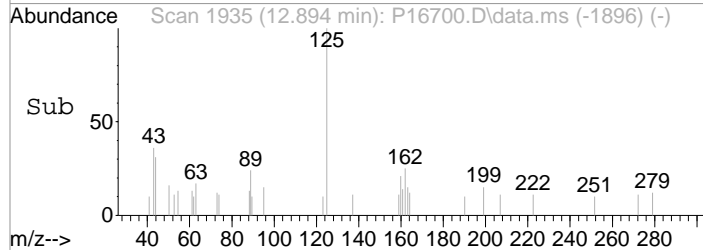
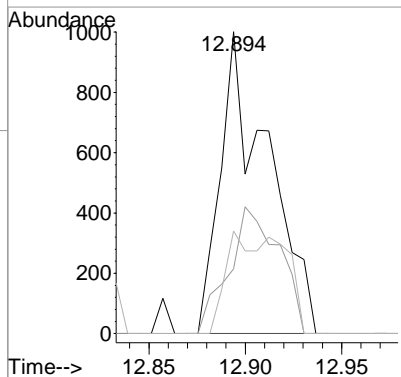
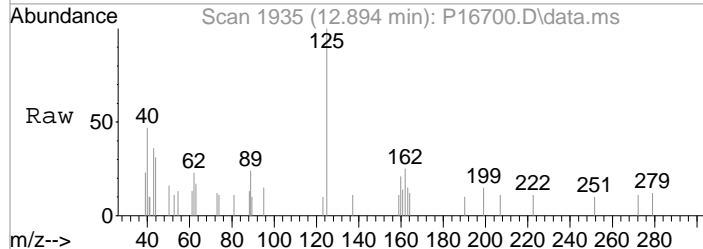
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 2849 | | |
| 99 | 52.5 | 43.1 | 83.1 |
| 61 | 26.5 | 26.9 | 66.9# |





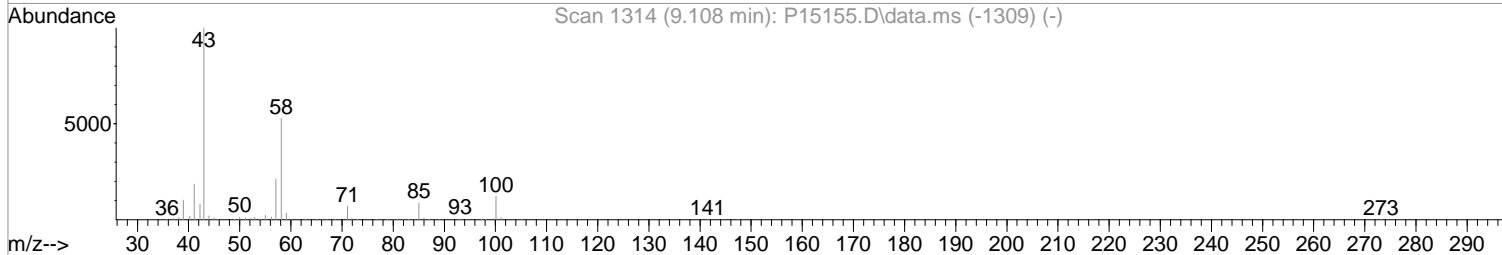
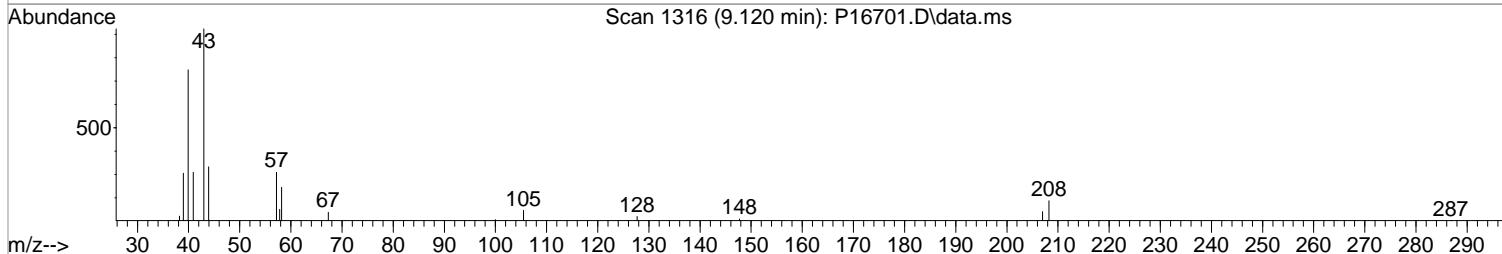
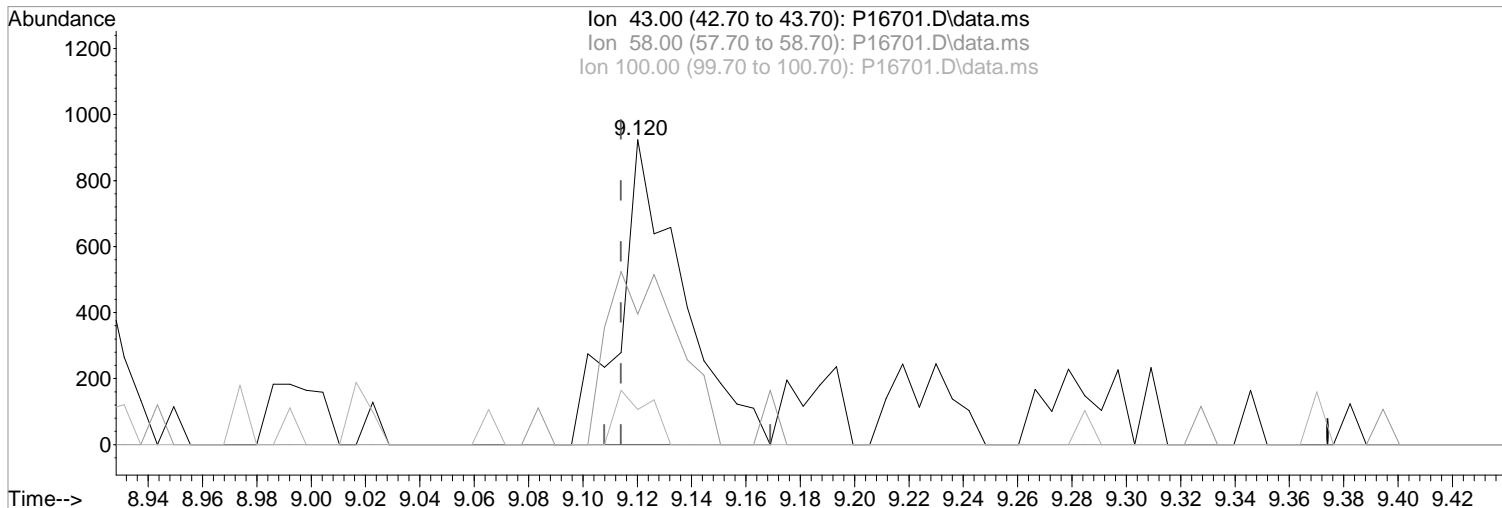
#112
 Trielution Dichlorotoluene
 Concen: 0.24 ppb
 RT: 12.894 min Scan# 1935
 Delta R.T. -0.012 min
 Lab File: P16700.D
 Acq: 27 Mar 2018 1:15 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 1712 | | |
| 125 | 100 | | |
| 160 | 35.8 | 32.2 | 48.2 |
| 89 | 33.9 | 28.3 | 42.5 |



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16701.D
Acq On : 27 Mar 2018 1:37 pm
Operator : K.Ruest
Sample : R1802551-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 14:16:21 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



(73) 2-Hexanone (P)

9.120min (+0.006) 0.47 ppb m

response 1499

| Ion | Exp% | Act% |
|--------|-------|--------|
| 43.00 | 100 | 100 |
| 58.00 | 52.50 | 26.52# |
| 100.00 | 12.00 | 11.47 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

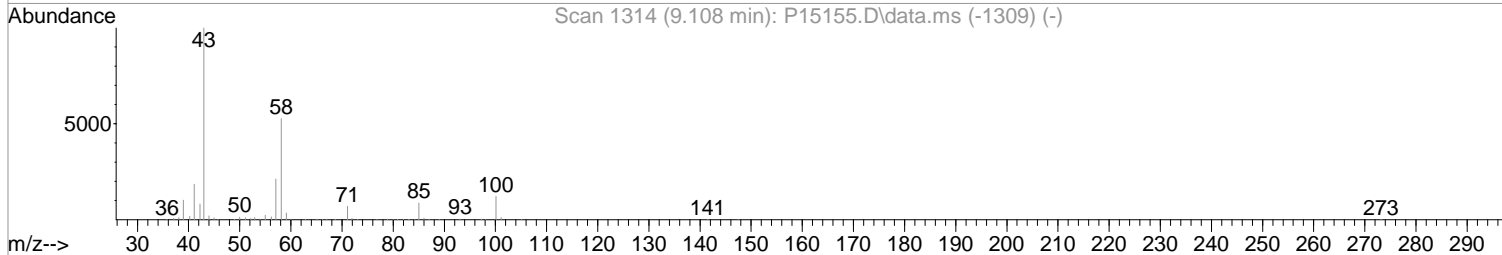
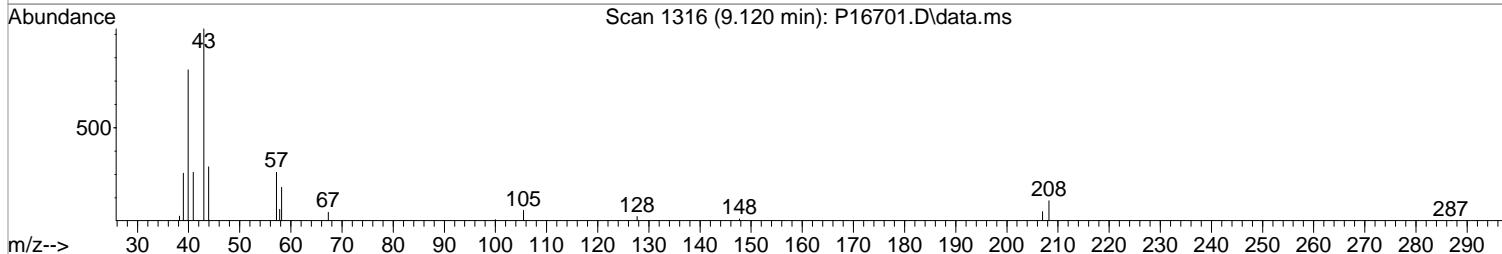
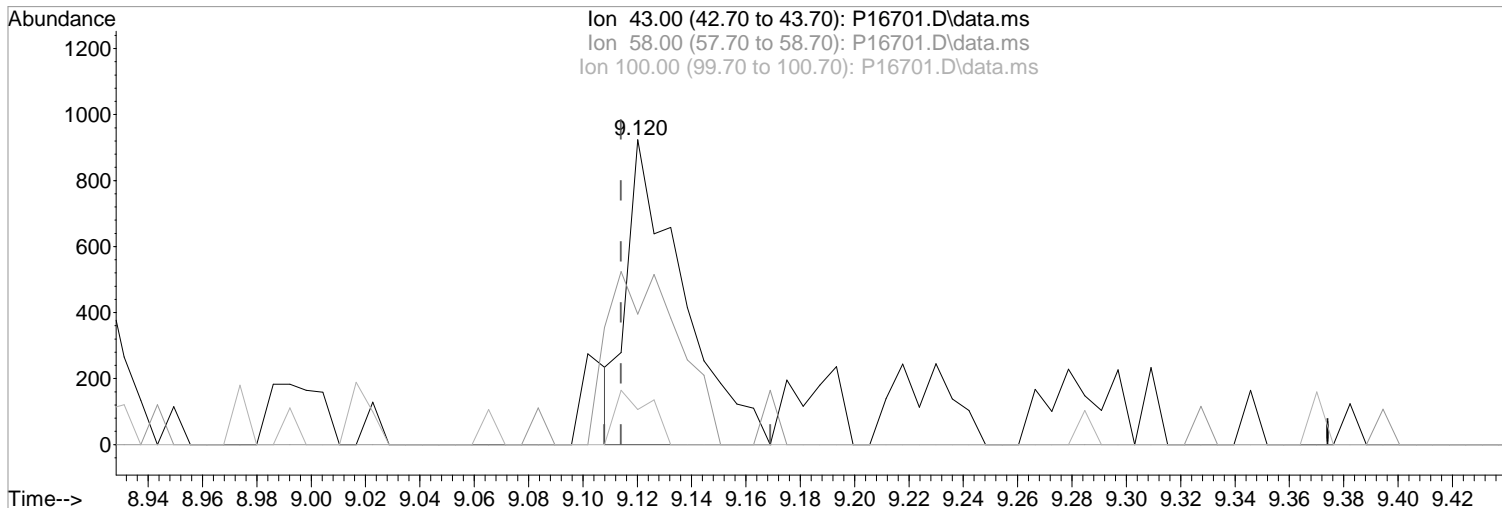
After

Split Peak

03/27/18

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16701.D
Acq On : 27 Mar 2018 1:37 pm
Operator : K.Ruest
Sample : R1802551-004|1.0 Inst : MSVOA-12
Misc : VERINA 8260 T4
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 14:16:21 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



(73) 2-Hexanone (P)
9.120min (+0.006) 0.42 ppb
response 1313

Manual Integration:
Before

| Ion | Exp% | Act% |
|--------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 52.50 | 42.75 |
| 100.00 | 12.00 | 11.47 |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16701.D
 Acq On : 27 Mar 2018 1:37 pm
 Operator : K.Ruest
 Sample : R1802551-004|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 27 16:55:02 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

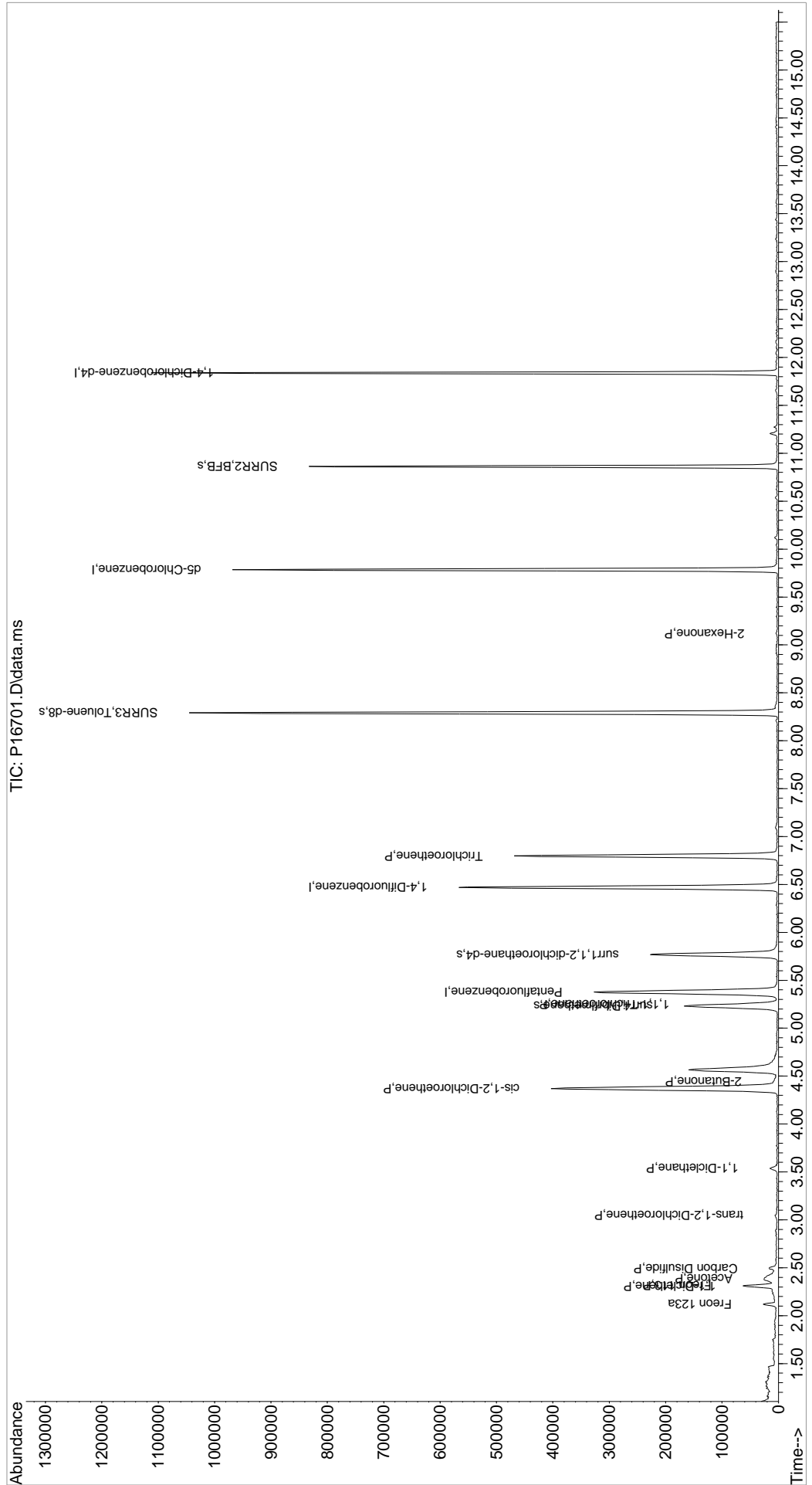
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|------------|--------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 289539 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 486905 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 428671 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 207194 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 132407 | 45.80 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 91.60% | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 197709 | 49.91 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 99.82% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 642366 | 49.76 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 99.52% | | |
| 70) SURR2,BFB | 10.864 | 95 | 229806 | 46.01 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 92.02% | | |
| Target Compounds | | | | | | |
| 10) Freon 123a | 2.122 | 67 | 9536 | 2.73 | ppb | 95 |
| 13) 1,1-Dicethene | 2.304 | 96 | 918 | 0.31 | ppb | # 63 |
| 14) Freon 113 | 2.311 | 101 | 19327 | 6.88 | ppb | 94 |
| 15) Acetone | 2.384 | 43 | 39012 | 22.10 | ppb | 96 |
| 18) Carbon Disulfide | 2.493 | 76 | 12765 | 1.47 | ppb | 98 |
| 26) trans-1,2-Dichloroethene | 3.048 | 96 | 1011 | 0.33 | ppb | 89 |
| 28) 1,1-Dicethane | 3.536 | 63 | 12298 | 2.21 | ppb | 100 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 232453 | 67.22 | ppb | 98 |
| 35) 2-Butanone | 4.444 | 43 | 6914 | 3.12 | ppb | 90 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 9142 | 1.92 | ppb | 88 |
| 54) Trichloroethene | 6.797 | 130 | 164305 | 50.37 | ppb | 94 |
| 73) 2-Hexanone | 9.120 | 43 | 1499m | 0.47 | ppb | |

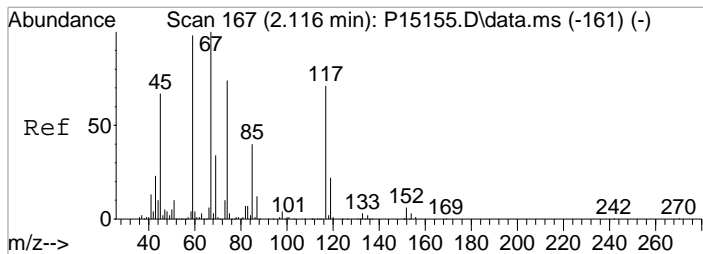
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\032718\
Data File : P16701.D
Acq On : 27 Mar 2018 1:37 pm
Operator : K.Ruest
Sample : R1802551-004|1.0
Misc : VERINA 8260 T4
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

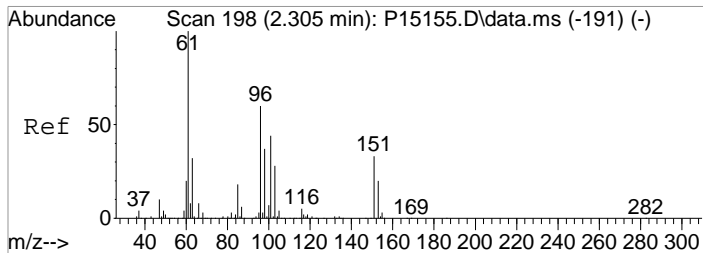
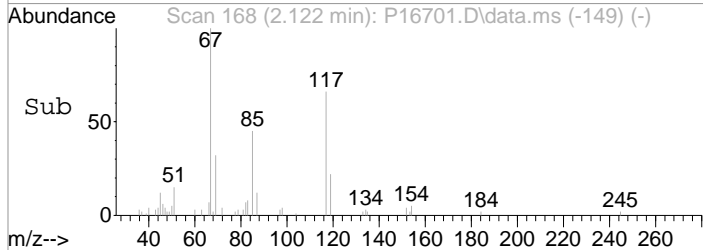
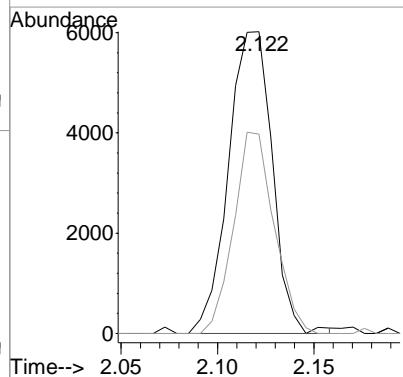
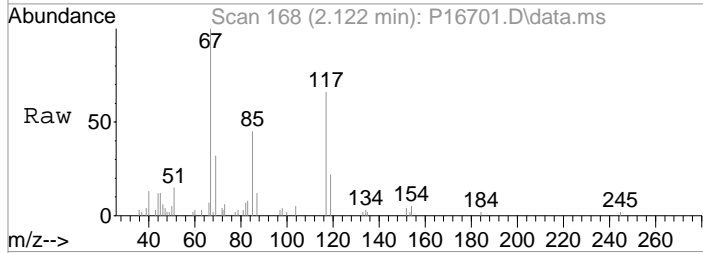
Quant Time: Mar 27 16:55:02 2018
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration





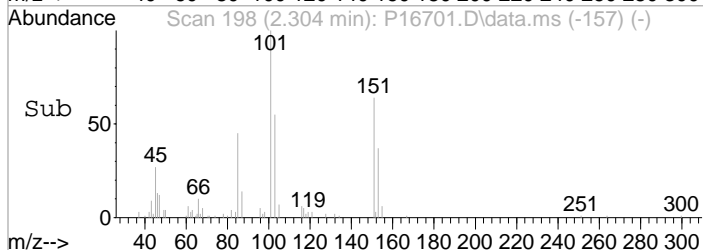
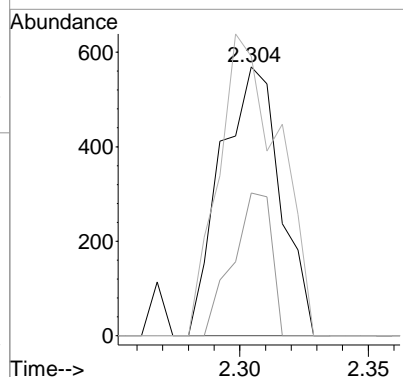
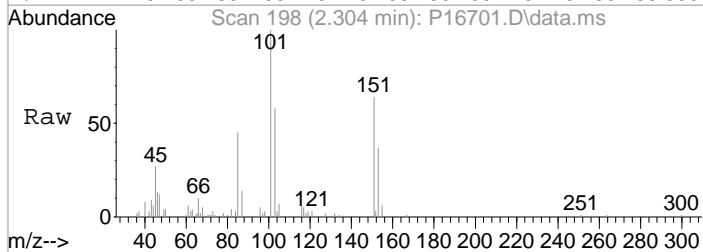
#10
 Freon 123a
 Concen: 2.73 ppb
 RT: 2.122 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

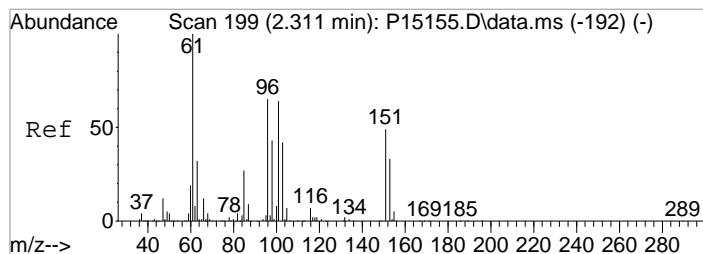
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 67 | 9536 | | |
| 117 | 66.0 | 50.3 | 90.3 |



#13
 1,1-Diclcethene
 Concen: 0.31 ppb
 RT: 2.304 min Scan# 198
 Delta R.T. -0.000 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

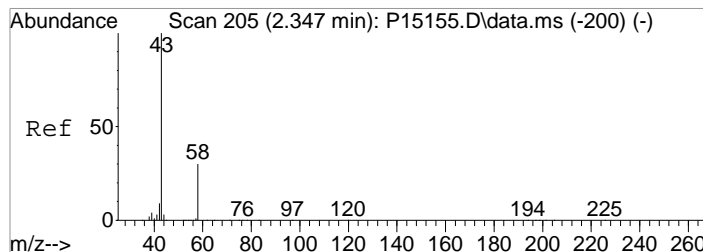
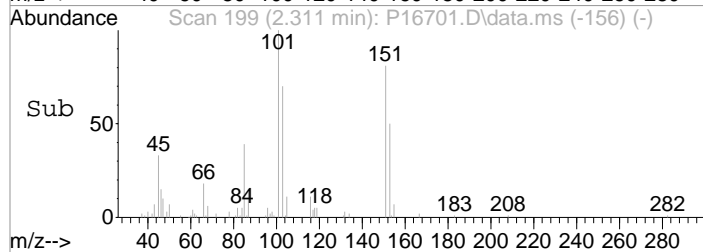
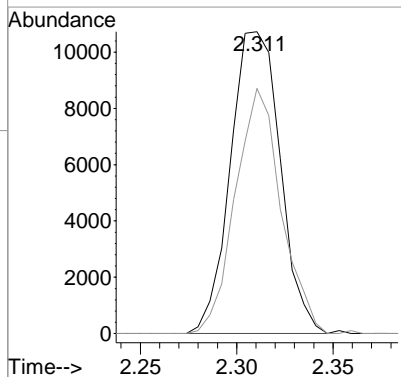
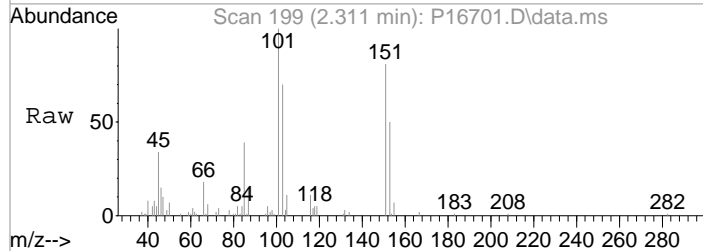
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 96 | 918 | | |
| 98 | 53.1 | 42.0 | 82.0 |
| 61 | 103.9 | 146.0 | 186.0# |





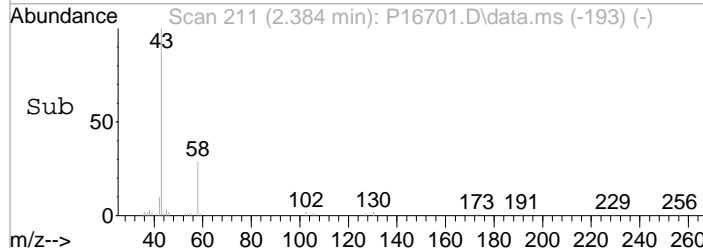
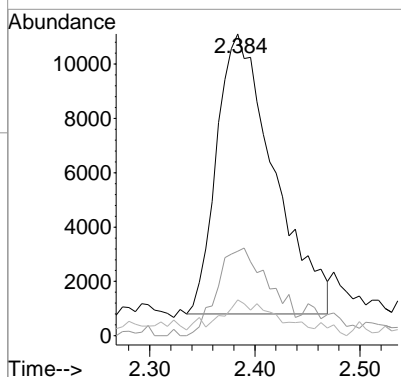
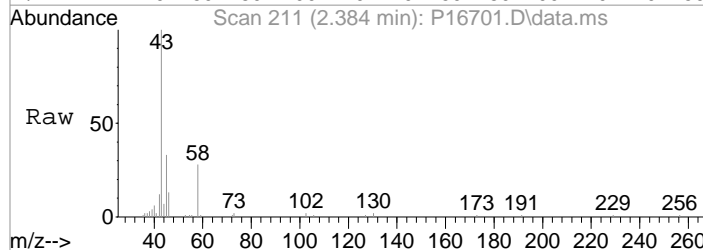
#14
 Freon 113
 Concen: 6.88 ppb
 RT: 2.311 min Scan# 199
 Delta R.T. 0.006 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

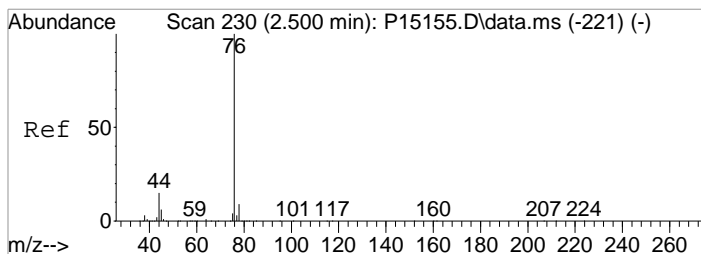
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 101 | 19327 | | |
| 101 | 100 | | |
| 151 | 81.2 | 56.3 | 96.3 |



#15
 Acetone
 Concen: 22.10 ppb
 RT: 2.384 min Scan# 211
 Delta R.T. 0.037 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

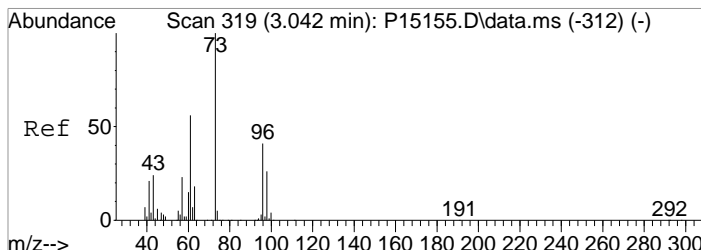
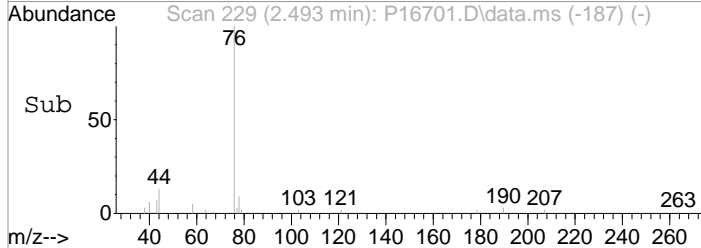
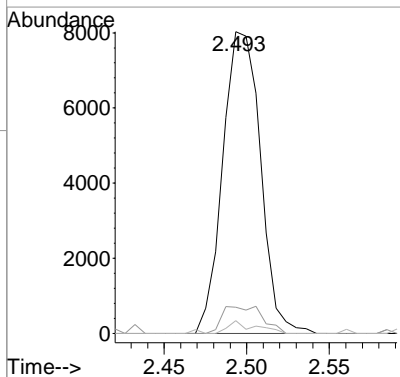
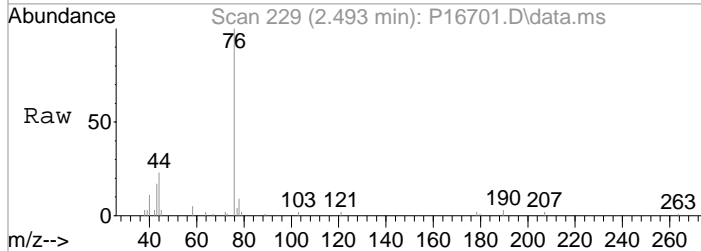
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 39012 | | |
| 43 | 100 | | |
| 58 | 27.9 | 9.7 | 49.7 |
| 42 | 11.9 | 0.0 | 29.2 |





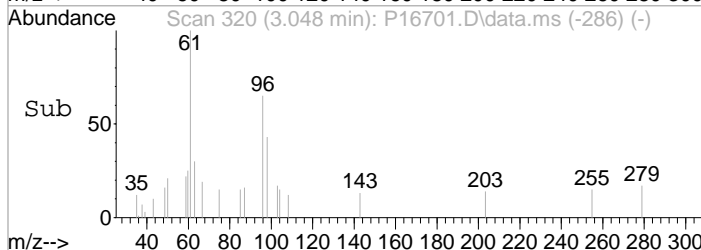
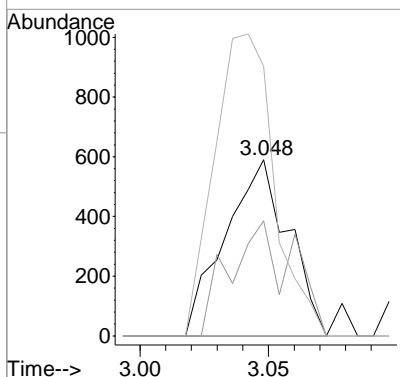
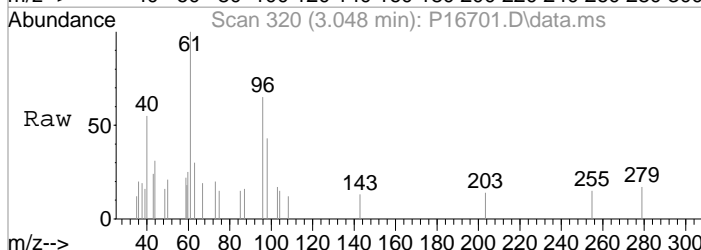
#18
 Carbon Disulfide
 Concen: 1.47 ppb
 RT: 2.493 min Scan# 229
 Delta R.T. -0.000 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

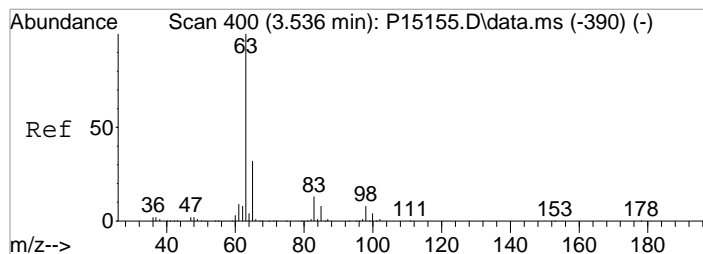
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 76 | 12765 | | |
| 78 | 8.7 | 0.0 | 29.5 |
| 77 | 4.3 | 0.0 | 23.1 |



#26
 trans-1,2-Dichloroethene
 Concen: 0.33 ppb
 RT: 3.048 min Scan# 320
 Delta R.T. -0.000 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

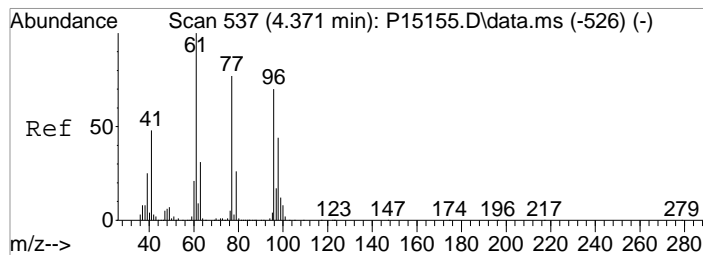
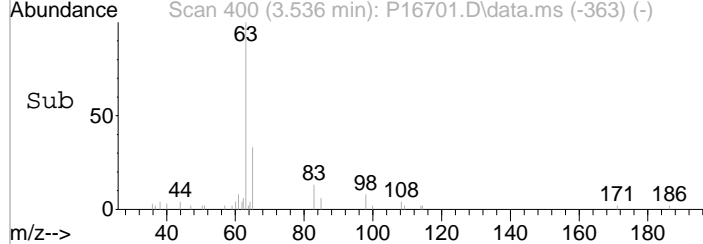
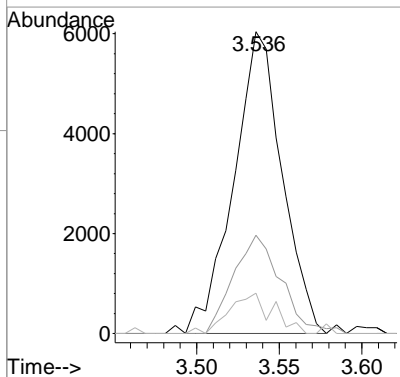
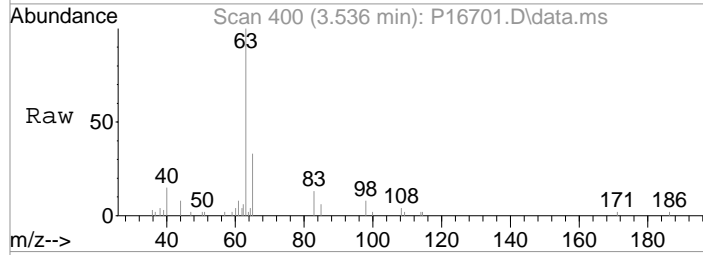
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 96 | 1011 | | |
| 98 | 65.3 | 42.7 | 82.7 |
| 61 | 153.1 | 116.4 | 156.4 |





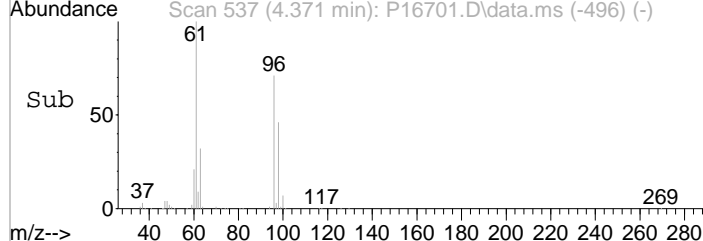
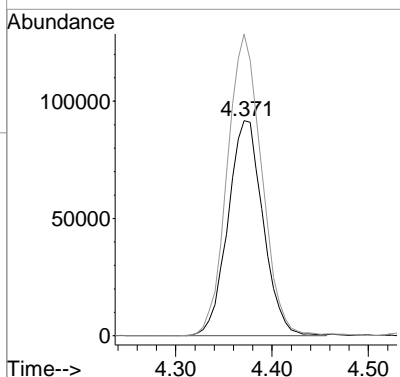
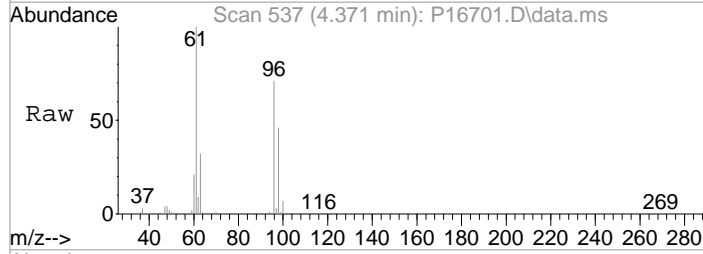
#28
 1,1-Dicloroethane
 Concen: 2.21 ppb
 RT: 3.536 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

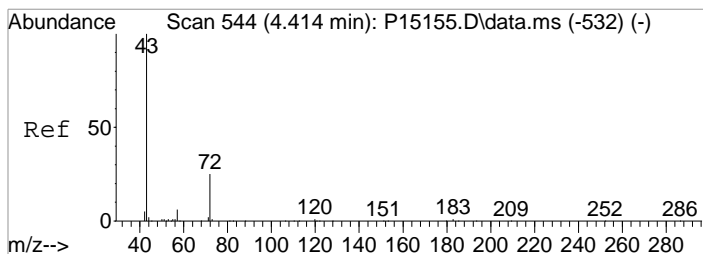
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 63 | 12298 | | |
| 65 | 32.5 | 12.3 | 52.3 |
| 83 | 13.4 | 0.0 | 33.4 |



#34
 cis-1,2-Dichloroethene
 Concen: 67.22 ppb
 RT: 4.371 min Scan# 537
 Delta R.T. -0.006 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

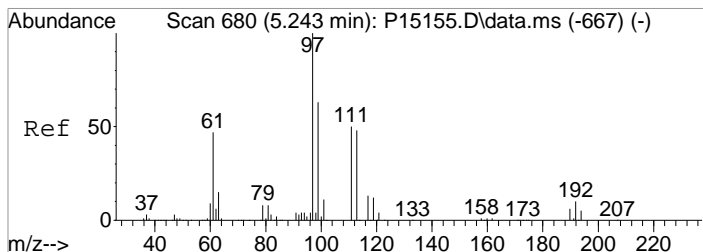
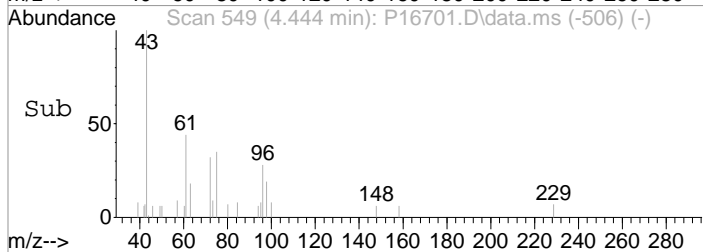
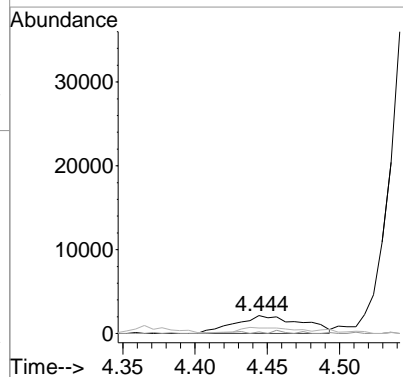
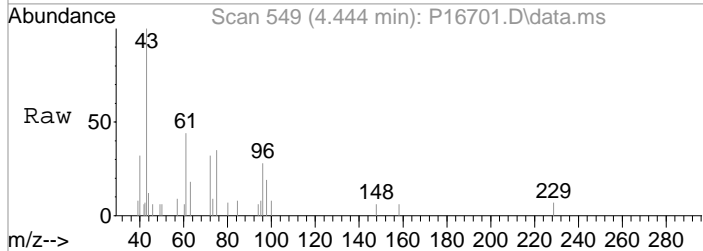
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 96 | 232453 | | |
| 96 | 100 | | |
| 61 | 140.3 | 122.8 | 162.8 |





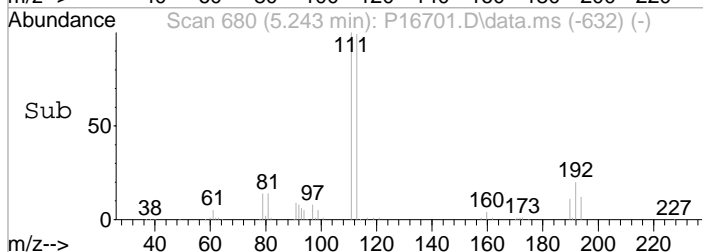
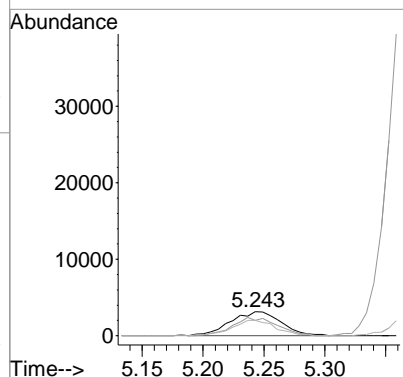
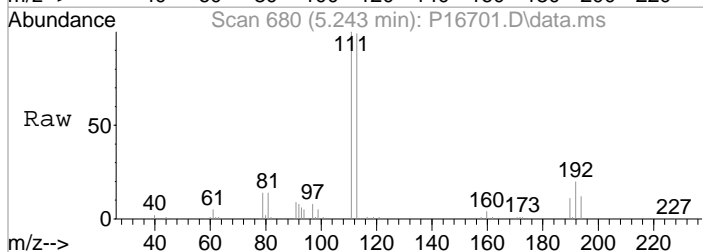
#35
 2-Butanone
 Concen: 3.12 ppb
 RT: 4.444 min Scan# 549
 Delta R.T. 0.037 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

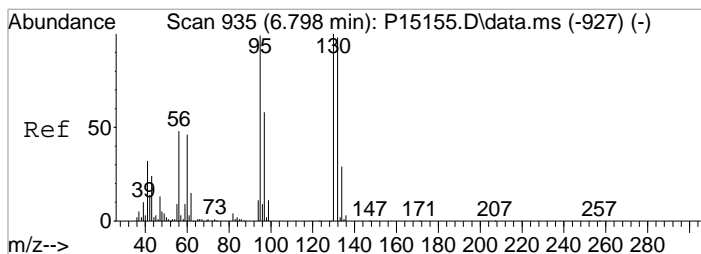
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 6914 | | |
| 57 | 8.9 | 0.0 | 26.7 |
| 72 | 31.7 | 6.1 | 46.1 |



#41
 1,1,1-Trichloroethane
 Concen: 1.92 ppb
 RT: 5.243 min Scan# 680
 Delta R.T. 0.012 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

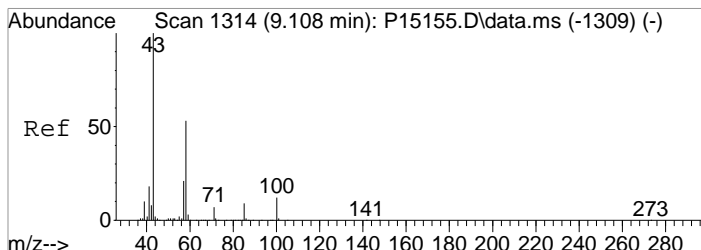
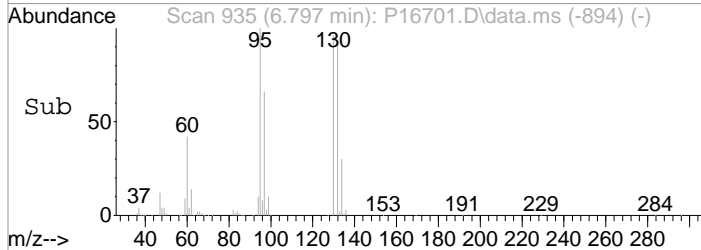
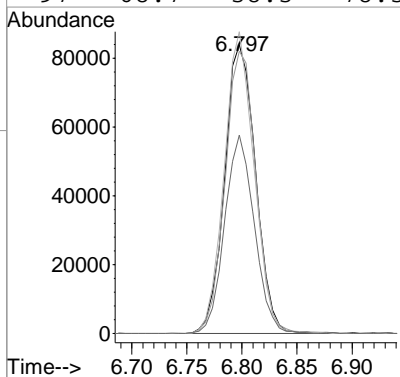
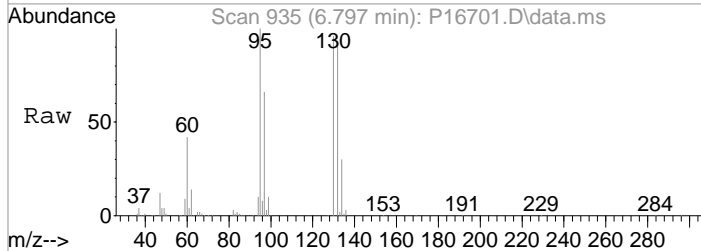
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 9142 | | |
| 99 | 64.2 | 43.1 | 83.1 |
| 61 | 63.9 | 26.9 | 66.9 |





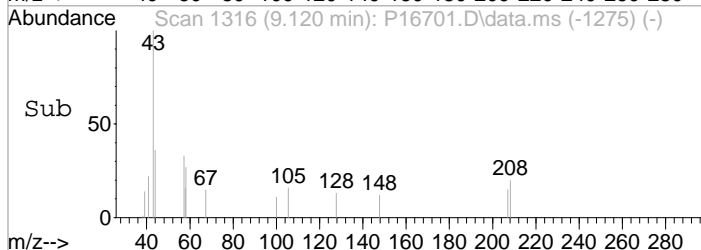
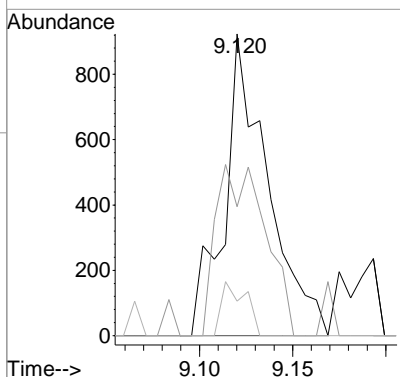
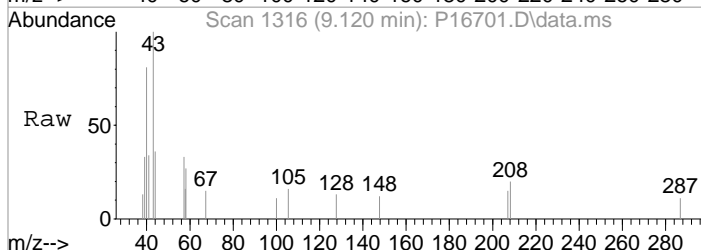
#54
 Trichloroethene
 Concen: 50.37 ppb
 RT: 6.797 min Scan# 935
 Delta R.T. -0.000 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 130 | 164305 | | |
| 130 | 100 | | |
| 132 | 97.7 | 78.3 | 118.3 |
| 95 | 104.6 | 78.7 | 118.7 |
| 97 | 68.7 | 38.3 | 78.3 |



#73
 2-Hexanone
 Concen: 0.47 ppb m
 RT: 9.120 min Scan# 1316
 Delta R.T. 0.006 min
 Lab File: P16701.D
 Acq: 27 Mar 2018 1:37 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1499 | | |
| 43 | 100 | | |
| 58 | 26.5 | 32.5 | 72.5# |
| 100 | 11.5 | 0.0 | 32.0 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16702.D
 Acq On : 27 Mar 2018 1:59 pm
 Operator : K.Ruest
 Sample : R1802551-005|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 27 16:57:05 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

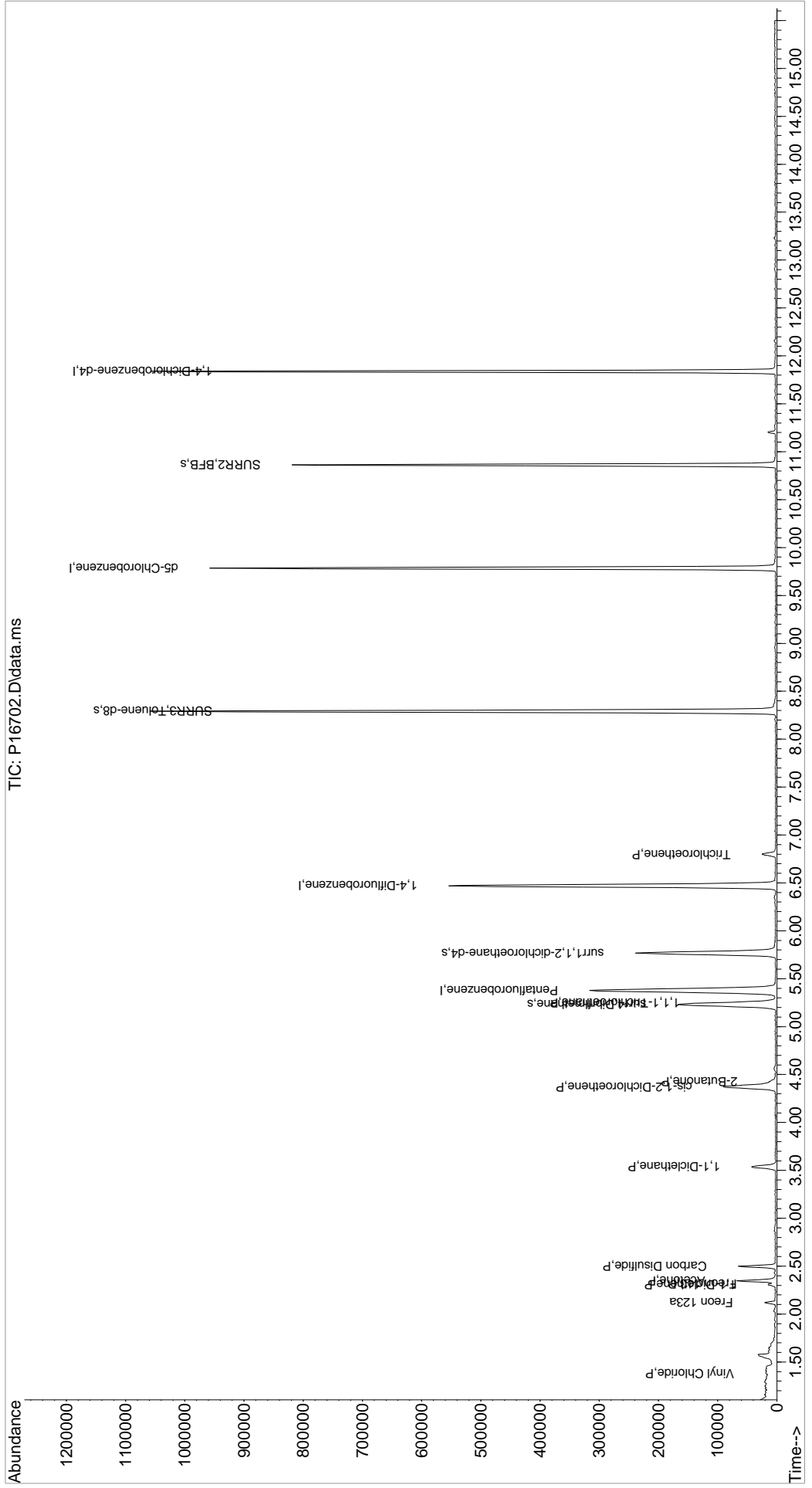
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|--------------------|-------|-------|------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 285139 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 484154 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 423298 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 206108 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 132245 | 46.00 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = 92.00% | | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 196954 | 50.00 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = 100.00% | | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 640069 | 49.86 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = 99.72% | | | |
| 70) SURR2,BFB | 10.864 | 95 | 230961 | 46.51 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = 93.02% | | | |
| Target Compounds | | | | | | |
| 4) Vinyl Chloride | 1.384 | 62 | 1123 | 0.27 | ppb | Qvalue # 1 |
| 10) Freon 123a | 2.122 | 67 | 7173 | 2.08 | ppb | 92 |
| 13) 1,1-Dicethene | 2.305 | 96 | 865 | 0.30 | ppb | # 81 |
| 14) Freon 113 | 2.311 | 101 | 3930 | 1.42 | ppb | 89 |
| 15) Acetone | 2.347 | 43 | 58374 | 33.57 | ppb | 97 |
| 18) Carbon Disulfide | 2.500 | 76 | 66256 | 7.76 | ppb | 98 |
| 28) 1,1-Dicethane | 3.536 | 63 | 42276 | 7.70 | ppb | 94 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 49698 | 14.59 | ppb | # 78 |
| 35) 2-Butanone | 4.426 | 43 | 17544 | 8.03 | ppb | 99 |
| 41) 1,1,1-Trichloroethane | 5.249 | 97 | 13087 | 2.80 | ppb | 95 |
| 54) Trichloroethene | 6.798 | 130 | 7889 | 2.43 | ppb | # 90 |

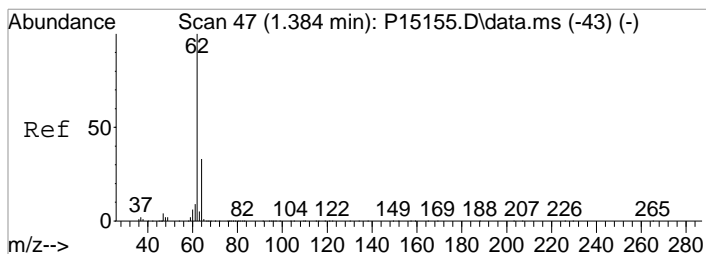
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16702.D
 Acq On : 27 Mar 2018 1:59 pm
 Operator : K.Ruest
 Sample : R1802551-005|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

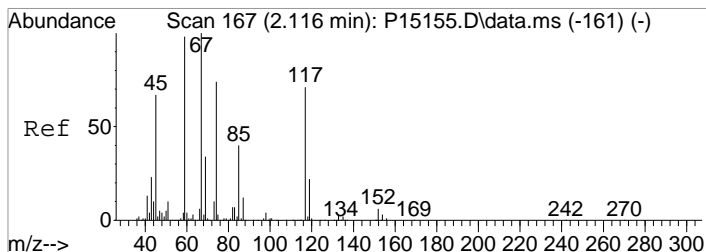
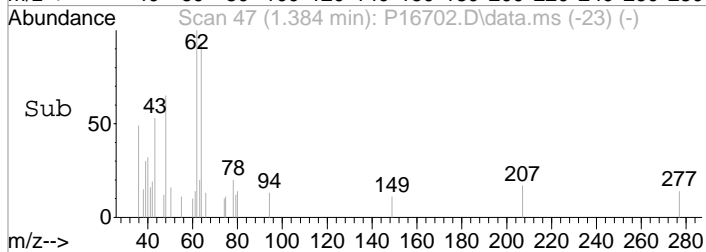
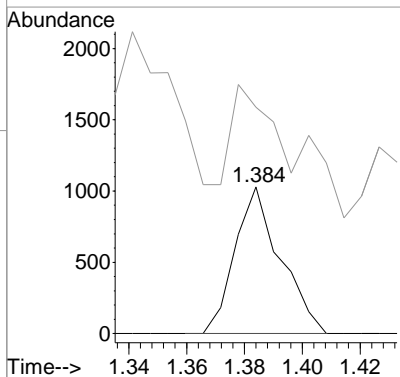
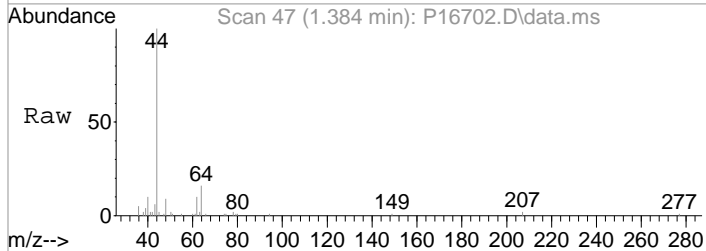
Quant Time: Mar 27 16:57:05 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





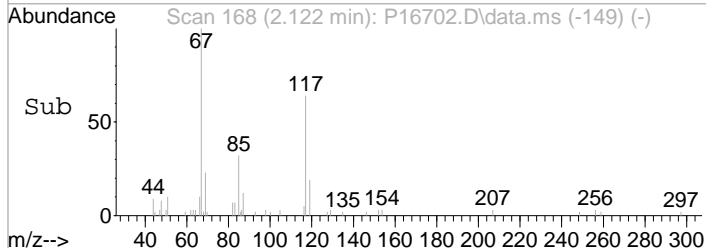
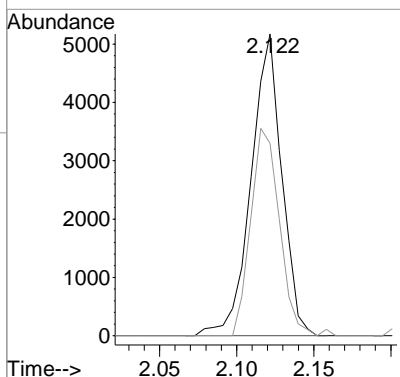
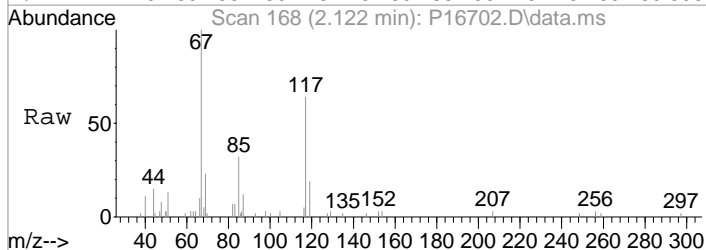
#4
 Vinyl Chloride
 Concen: 0.27 ppb
 RT: 1.384 min Scan# 47
 Delta R.T. 0.000 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

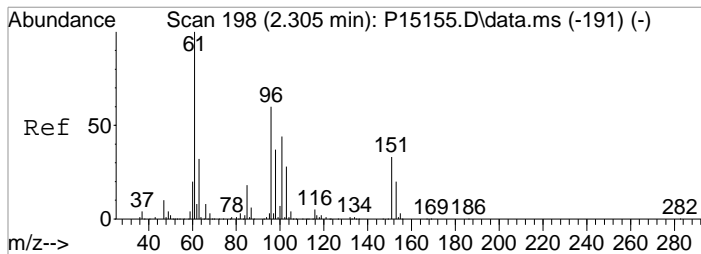
Tgt Ion: 62 Resp: 1123
 Ion Ratio Lower Upper
 62 100
 64 154.2 12.8 52.8#



#10
 Freon 123a
 Concen: 2.08 ppb
 RT: 2.122 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

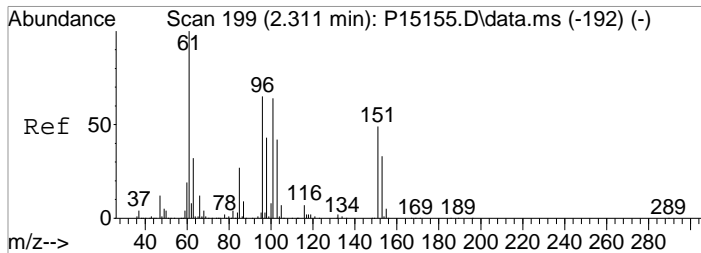
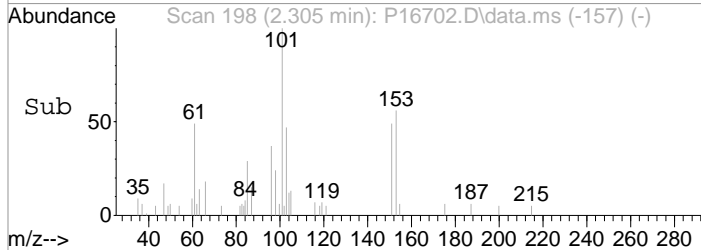
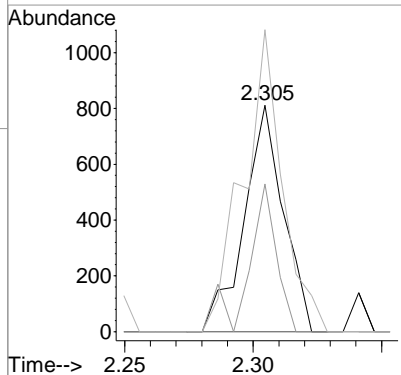
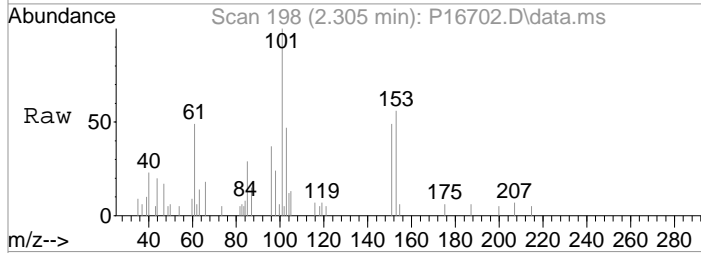
Tgt Ion: 67 Resp: 7173
 Ion Ratio Lower Upper
 67 100
 117 63.7 50.3 90.3





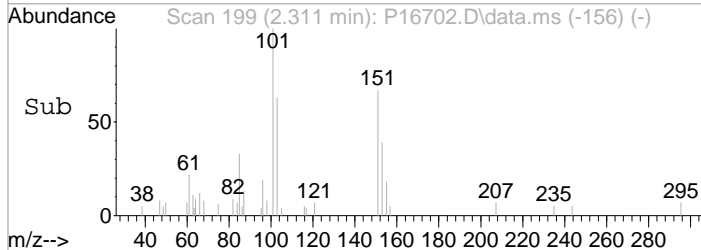
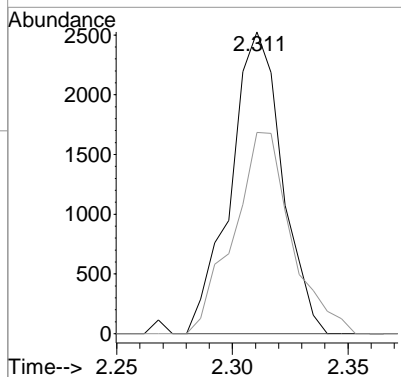
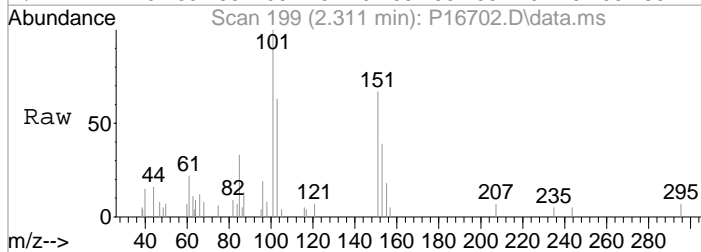
#13
 1,1-Dicylethene
 Concen: 0.30 ppb
 RT: 2.305 min Scan# 198
 Delta R.T. -0.000 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

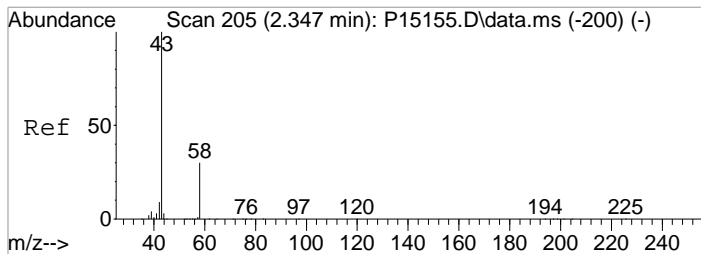
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 96 | 100 | | |
| 98 | 65.1 | 42.0 | 82.0 |
| 61 | 133.4 | 146.0 | 186.0# |



#14
 Freon 113
 Concen: 1.42 ppb
 RT: 2.311 min Scan# 199
 Delta R.T. 0.006 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

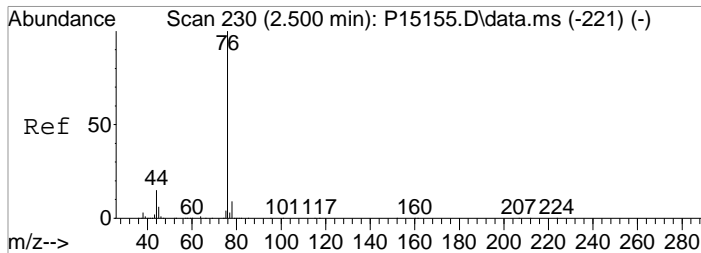
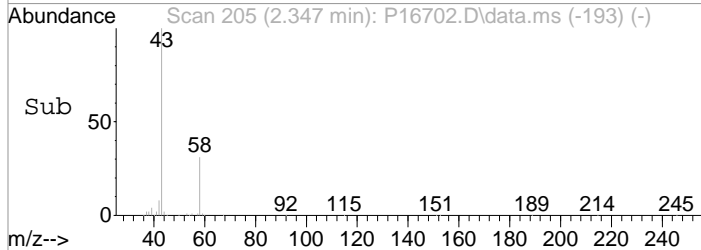
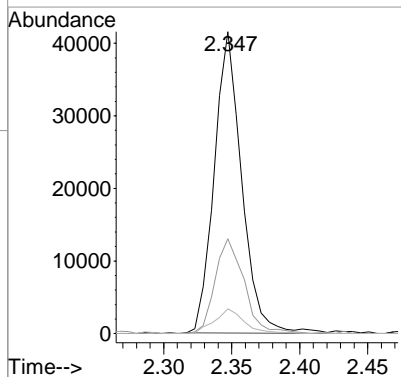
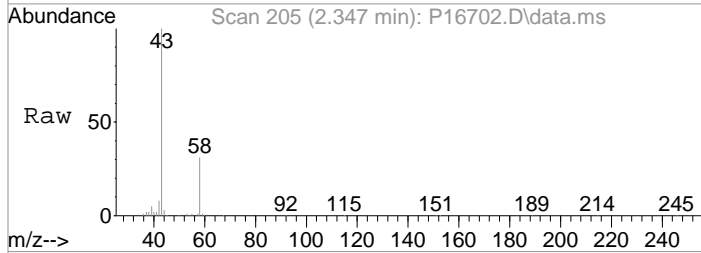
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 100 | | |
| 151 | 66.7 | 56.3 | 96.3 |





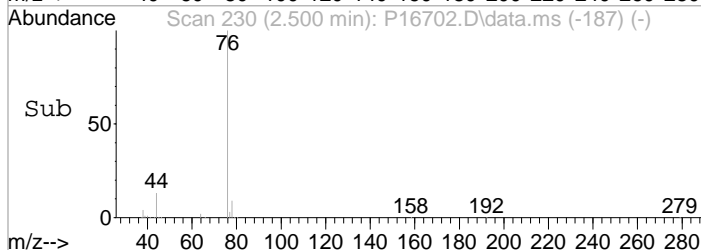
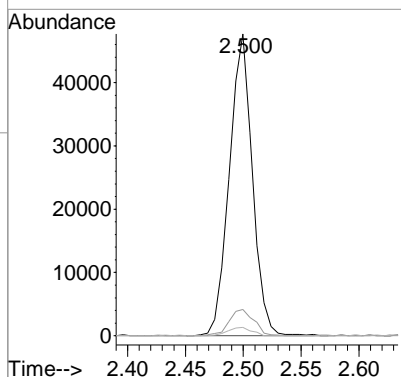
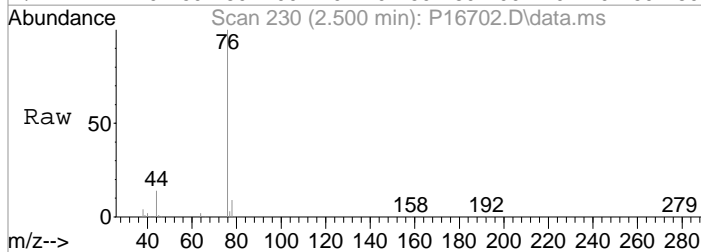
#15
 Acetone
 Concen: 33.57 ppb
 RT: 2.347 min Scan# 205
 Delta R.T. 0.000 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

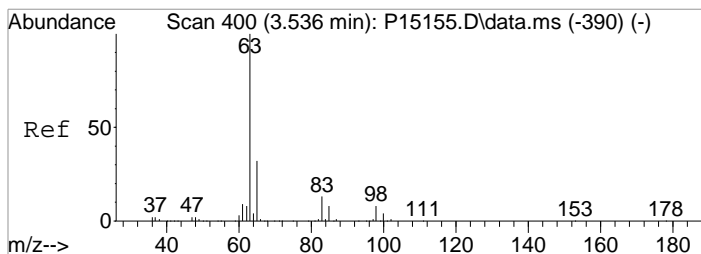
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 58374 | | |
| 58 | 31.4 | 9.7 | 49.7 |
| 42 | 8.2 | 0.0 | 29.2 |



#18
 Carbon Disulfide
 Concen: 7.76 ppb
 RT: 2.500 min Scan# 230
 Delta R.T. 0.006 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

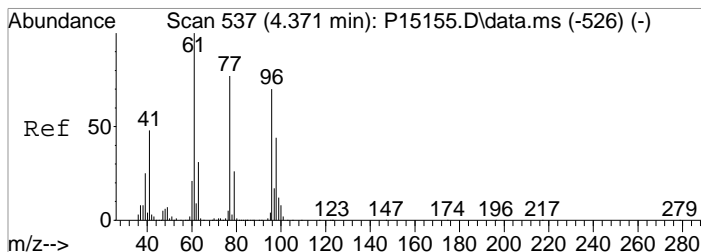
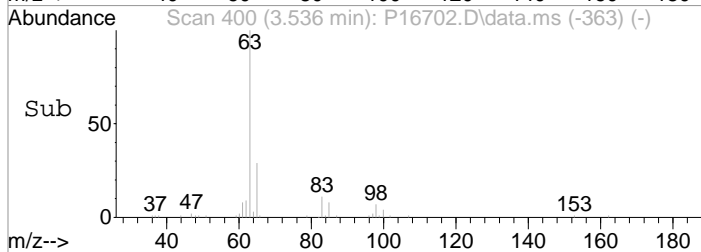
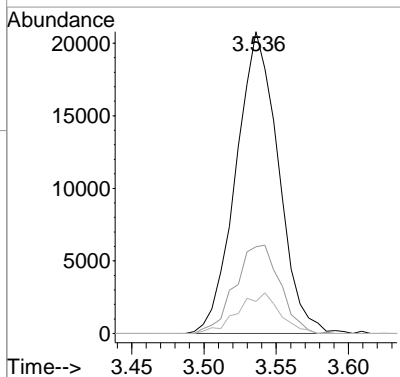
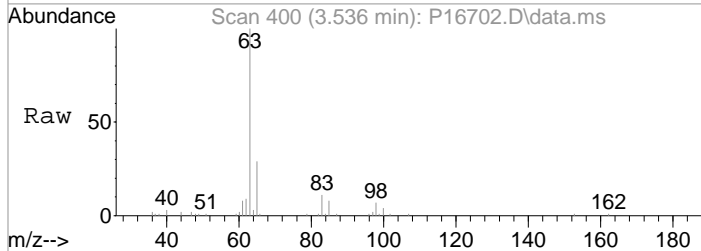
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 76 | 66256 | | |
| 78 | 8.7 | 0.0 | 29.5 |
| 77 | 2.8 | 0.0 | 23.1 |





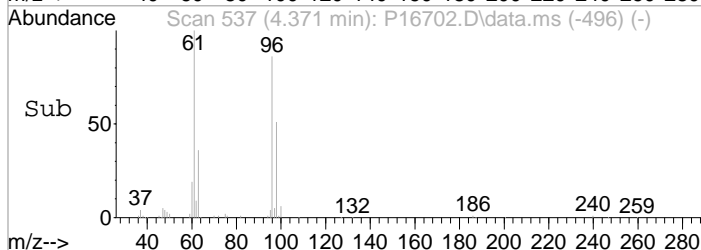
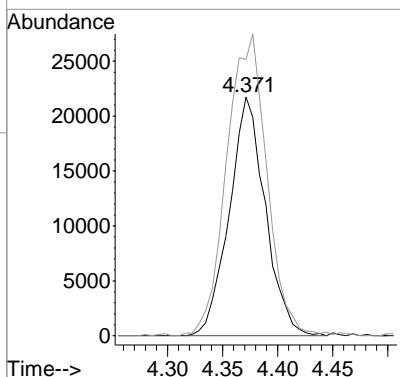
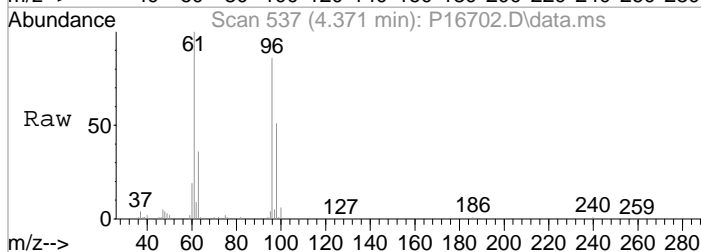
#28
 1,1-Dicloethane
 Concen: 7.70 ppb
 RT: 3.536 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

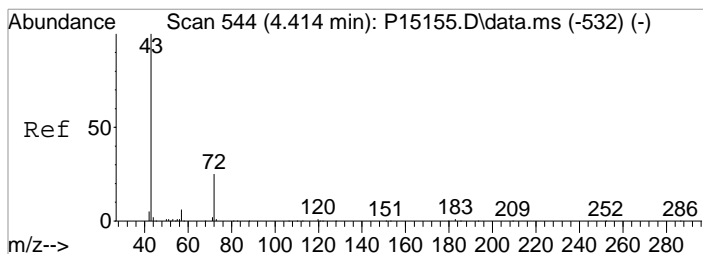
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 63 | 100 | | |
| 65 | 28.8 | 12.3 | 52.3 |
| 83 | 10.6 | 0.0 | 33.4 |



#34
 cis-1,2-Dichloroethene
 Concen: 14.59 ppb
 RT: 4.371 min Scan# 537
 Delta R.T. -0.006 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

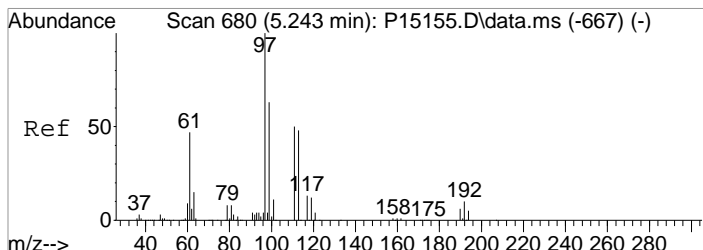
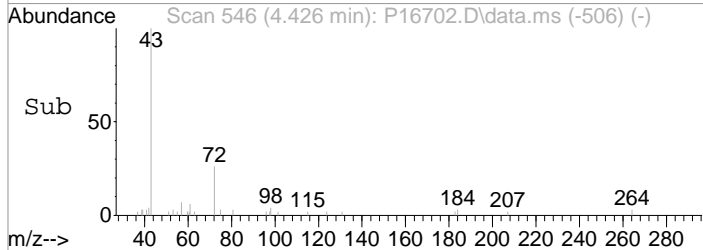
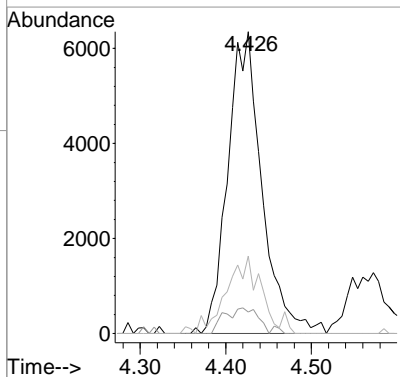
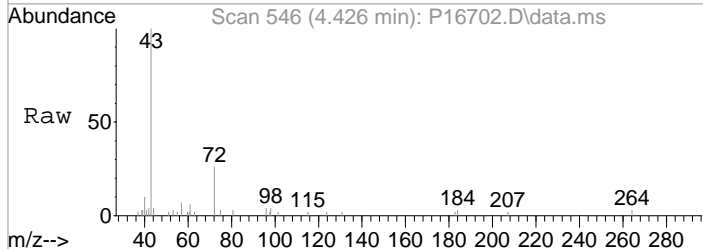
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 96 | 100 | | |
| 61 | 115.7 | 122.8 | 162.8# |





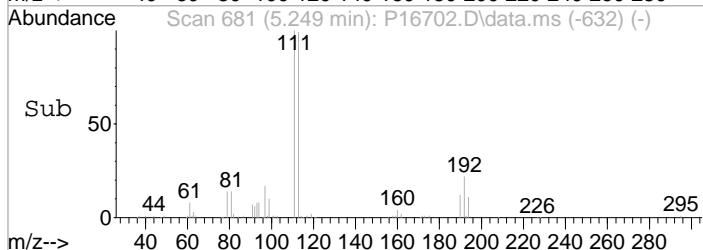
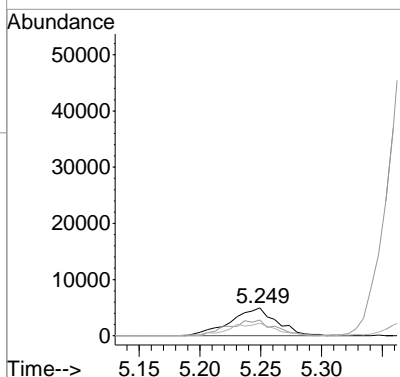
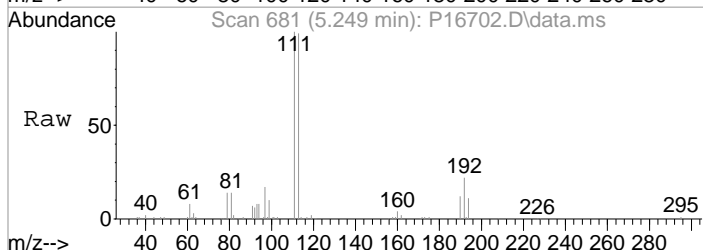
#35
 2-Butanone
 Concen: 8.03 ppb
 RT: 4.426 min Scan# 546
 Delta R.T. 0.018 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

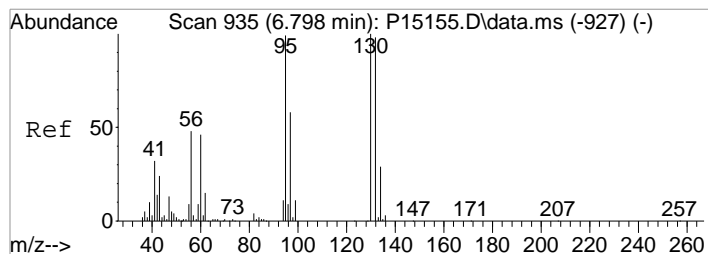
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 17544 | | |
| 57 | 7.1 | 0.0 | 26.7 |
| 72 | 25.7 | 6.1 | 46.1 |



#41
 1,1,1-Trichloroethane
 Concen: 2.80 ppb
 RT: 5.249 min Scan# 681
 Delta R.T. 0.018 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

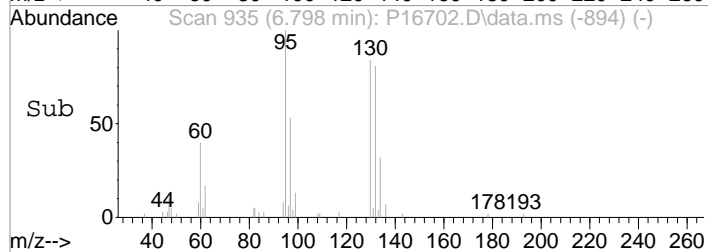
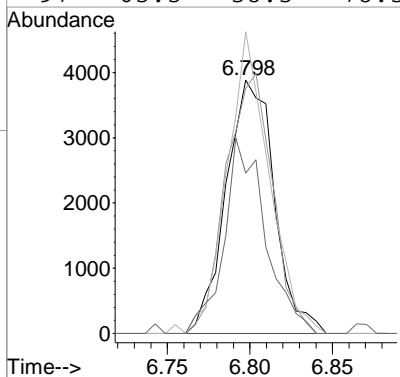
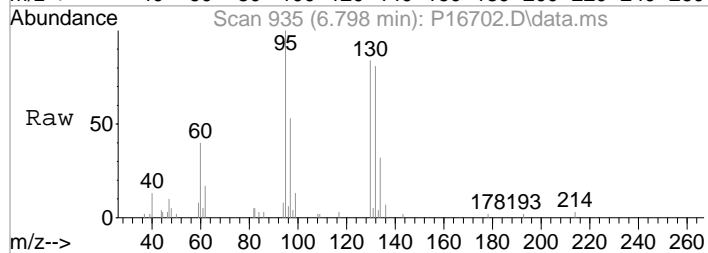
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 97 | 13087 | | |
| 99 | 57.0 | 43.1 | 83.1 |
| 61 | 45.5 | 26.9 | 66.9 |





#54
 Trichloroethene
 Concen: 2.43 ppb
 RT: 6.798 min Scan# 935
 Delta R.T. -0.000 min
 Lab File: P16702.D
 Acq: 27 Mar 2018 1:59 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 130 | 7889 | | |
| 130 | 100 | | |
| 132 | 96.8 | 78.3 | 118.3 |
| 95 | 119.2 | 78.7 | 118.7# |
| 97 | 63.3 | 38.3 | 78.3 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16703.D
 Acq On : 27 Mar 2018 2:21 pm
 Operator : K.Ruest
 Sample : R1802551-006|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 16:59:27 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

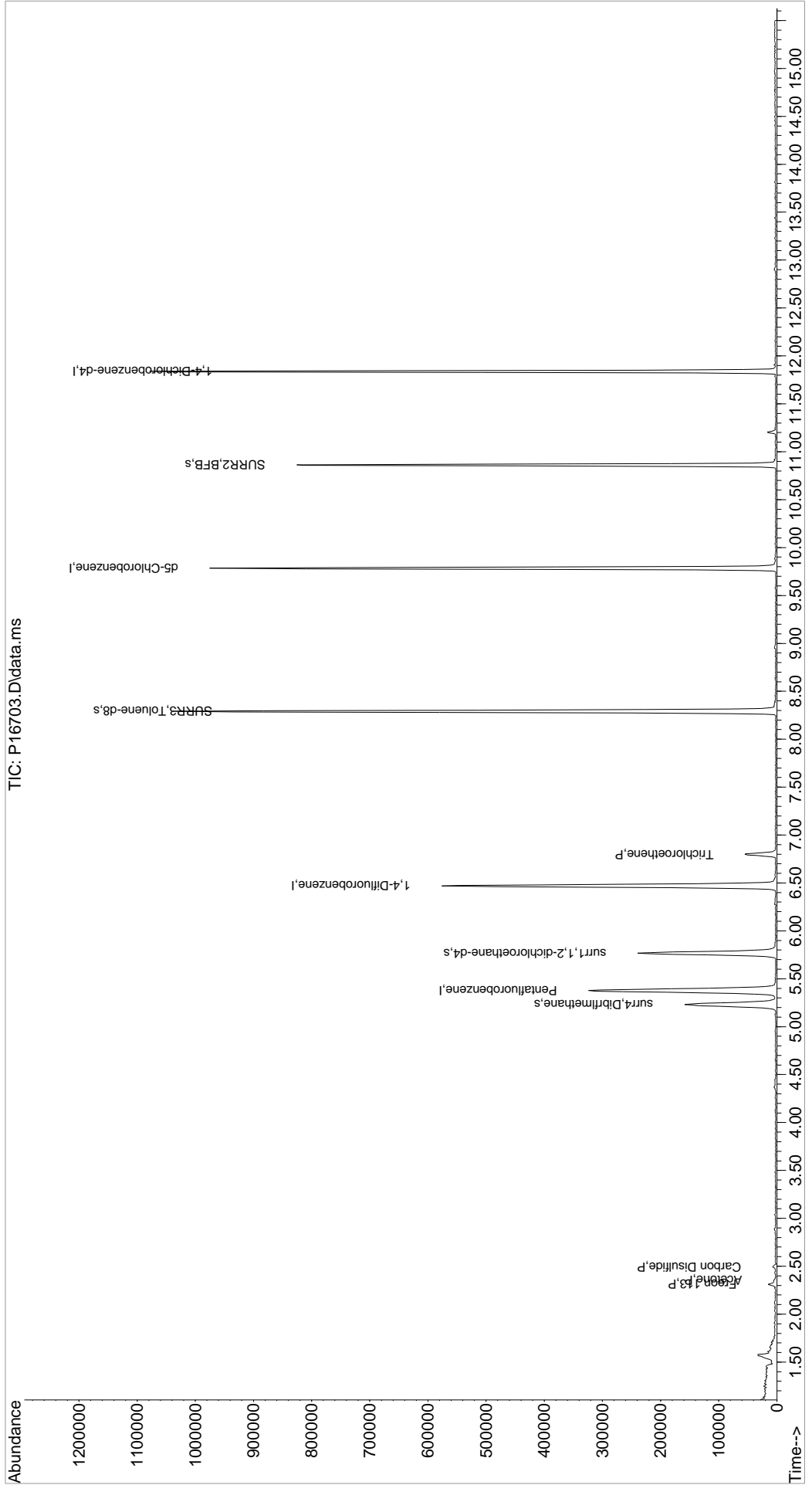
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|------------|---------|-------|-------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 289167 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 488979 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 427171 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 213624 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 130572 | 44.97 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 89.94% | | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 200864 | 50.49 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 100.98% | | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 645909 | 49.82 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 99.64% | | |
| 70) SURR2,BFB | 10.864 | 95 | 238265 | 47.50 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 95.00% | | |
| Target Compounds | | | | | | |
| 14) Freon 113 | 2.311 | 101 | 3716 | 1.32 | ppb | Qvalue # 68 |
| 15) Acetone | 2.353 | 43 | 3015 | 1.71 | ppb | 80 |
| 18) Carbon Disulfide | 2.494 | 76 | 4924 | 0.57 | ppb | 95 |
| 54) Trichloroethene | 6.798 | 130 | 19251 | 5.88 | ppb | 93 |

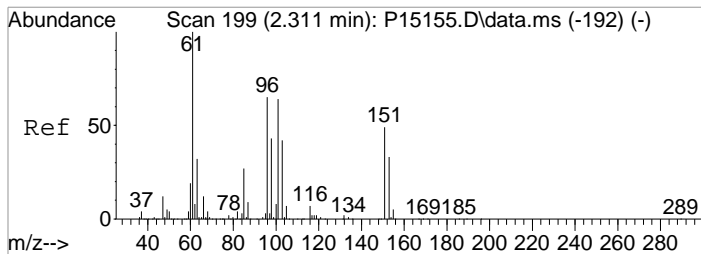
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16703.D
 Acq On : 27 Mar 2018 2:21 pm
 Operator : K.Ruest
 Sample : R1802551-006|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

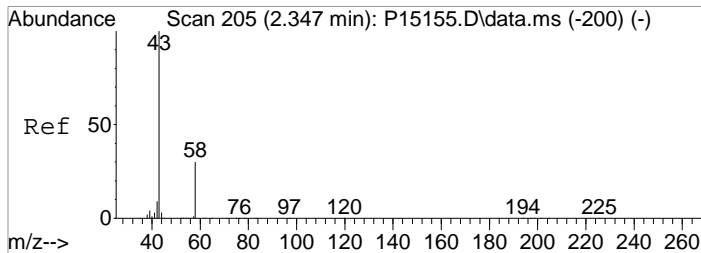
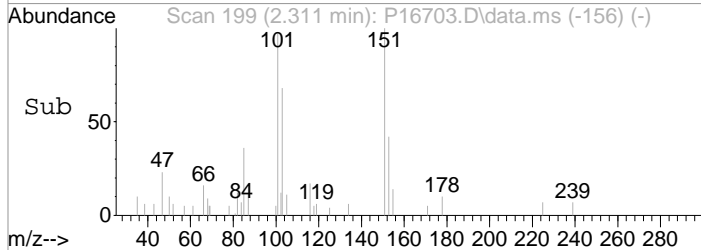
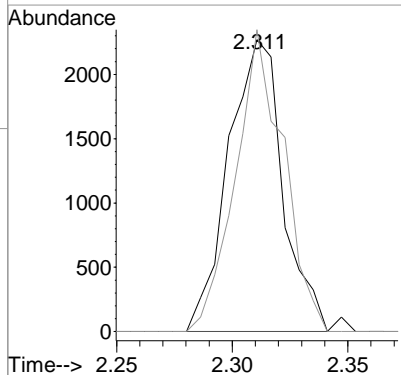
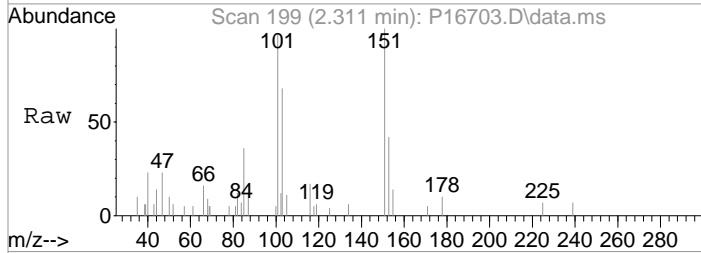
Quant Time: Mar 27 16:59:27 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





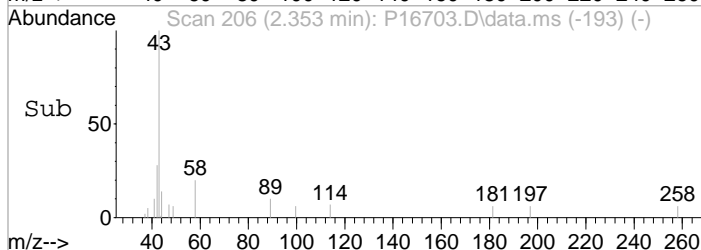
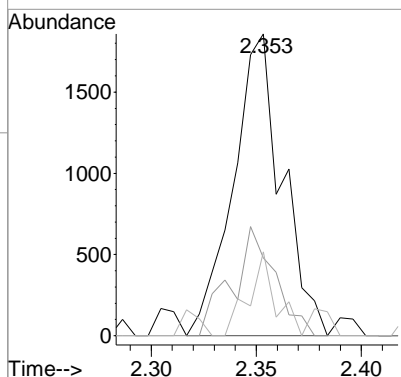
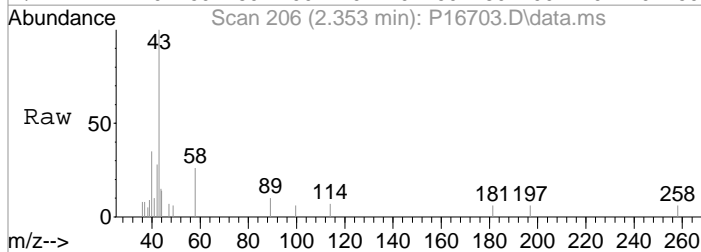
#14
 Freon 113
 Concen: 1.32 ppb
 RT: 2.311 min Scan# 199
 Delta R.T. 0.006 min
 Lab File: P16703.D
 Acq: 27 Mar 2018 2:21 pm

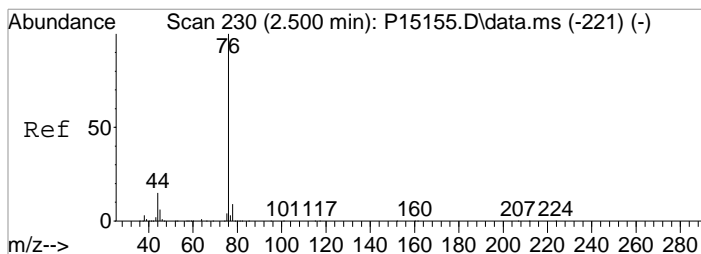
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 101 | 3716 | | |
| 101 | 100 | | |
| 151 | 103.5 | 56.3 | 96.3# |



#15
 Acetone
 Concen: 1.71 ppb
 RT: 2.353 min Scan# 206
 Delta R.T. 0.006 min
 Lab File: P16703.D
 Acq: 27 Mar 2018 2:21 pm

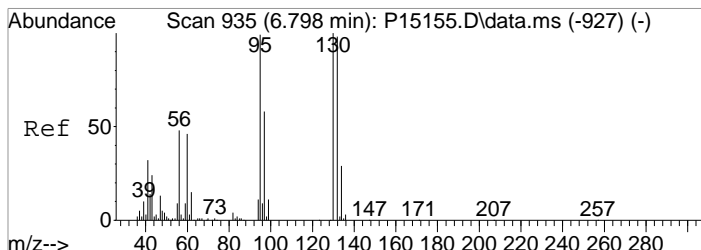
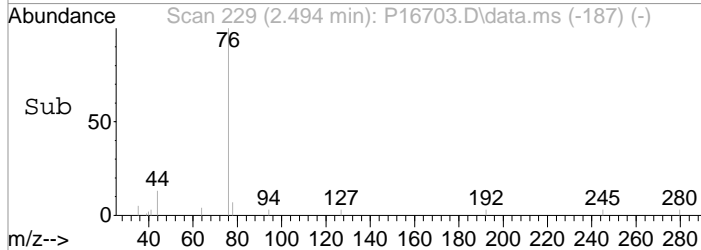
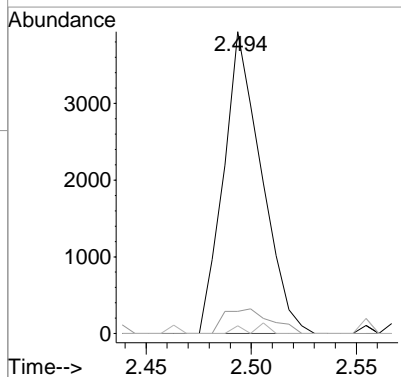
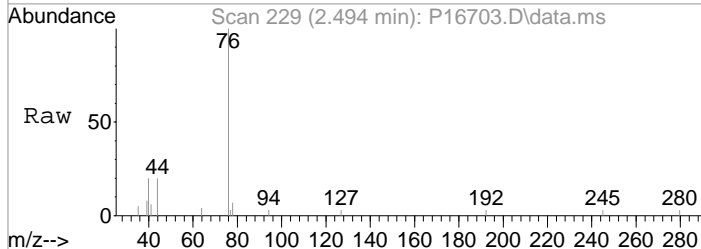
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 3015 | | |
| 43 | 100 | | |
| 58 | 22.3 | 9.7 | 49.7 |
| 42 | 24.1 | 0.0 | 29.2 |





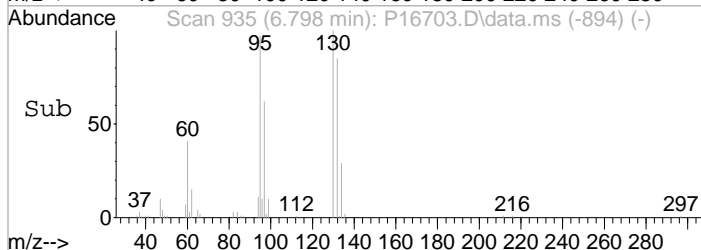
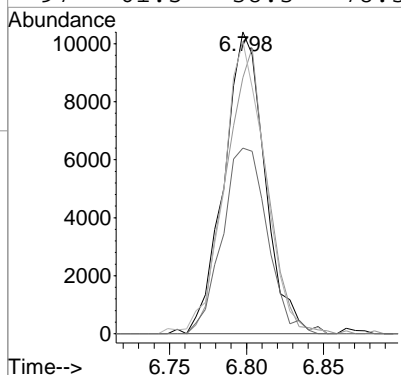
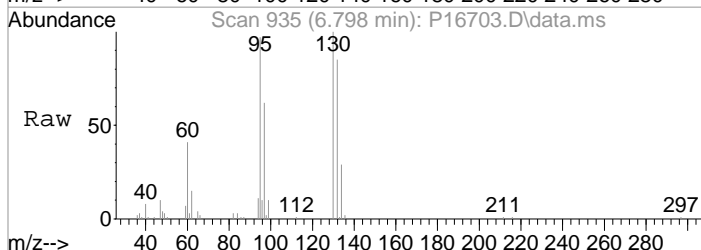
#18
 Carbon Disulfide
 Concen: 0.57 ppb
 RT: 2.494 min Scan# 229
 Delta R.T. 0.000 min
 Lab File: P16703.D
 Acq: 27 Mar 2018 2:21 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 76 | 4924 | | |
| 78 | 7.3 | 0.0 | 29.5 |
| 77 | 2.6 | 0.0 | 23.1 |



#54
 Trichloroethene
 Concen: 5.88 ppb
 RT: 6.798 min Scan# 935
 Delta R.T. 0.000 min
 Lab File: P16703.D
 Acq: 27 Mar 2018 2:21 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 130 | 19251 | | |
| 132 | 84.8 | 78.3 | 118.3 |
| 95 | 96.7 | 78.7 | 118.7 |
| 97 | 61.5 | 38.3 | 78.3 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16704.D
 Acq On : 27 Mar 2018 2:43 pm
 Operator : K.Ruest
 Sample : R1802551-009|1.0 Inst : MSVOA-12
 Misc : VERINA 8260 T4
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 17:01:02 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

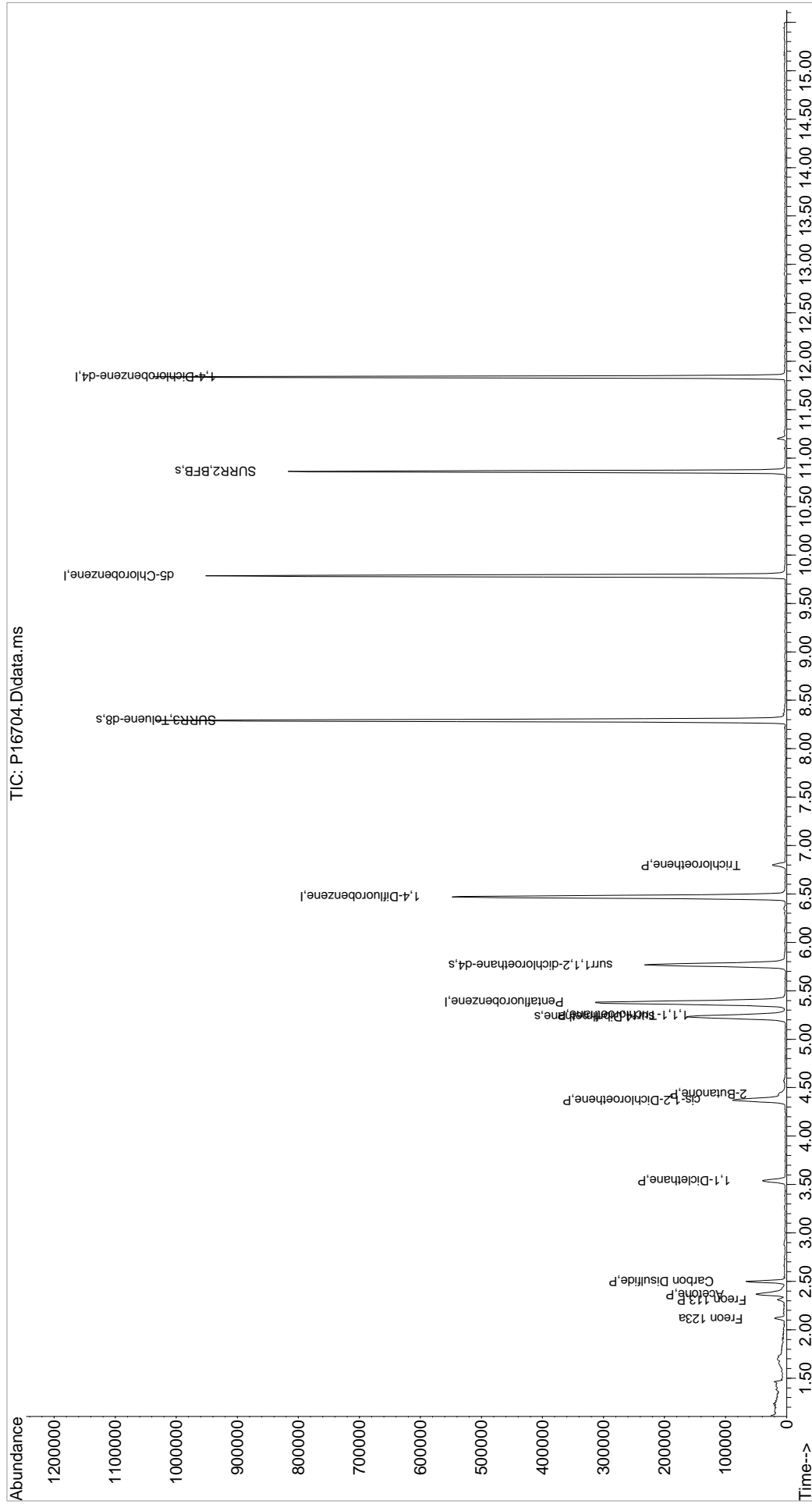
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|--------|-------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.383 | 168 | 282631 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 479735 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 422035 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 201775 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 130485 | 45.81 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 91.62% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 194853 | 49.92 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 99.84% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 630816 | 49.60 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 99.20% | |
| 70) SURR2,BFB | 10.864 | 95 | 228907 | 46.52 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 93.04% | |
| Target Compounds | | | | | | |
| 10) Freon 123a | 2.116 | 67 | 6480 | 1.90 | ppb | Qvalue # 72 |
| 14) Freon 113 | 2.305 | 101 | 4007 | 1.46 | ppb | # 73 |
| 15) Acetone | 2.366 | 43 | 71348 | 41.40 | ppb | 97 |
| 18) Carbon Disulfide | 2.500 | 76 | 69896 | 8.25 | ppb | 98 |
| 28) 1,1-Dicethane | 3.536 | 63 | 39537 | 7.27 | ppb | 98 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 48207 | 14.28 | ppb | 98 |
| 35) 2-Butanone | 4.432 | 43 | 19116 | 8.83 | ppb | 84 |
| 41) 1,1,1-Trichloroethane | 5.249 | 97 | 11540 | 2.49 | ppb | 94 |
| 54) Trichloroethene | 6.798 | 130 | 7462 | 2.32 | ppb | 93 |

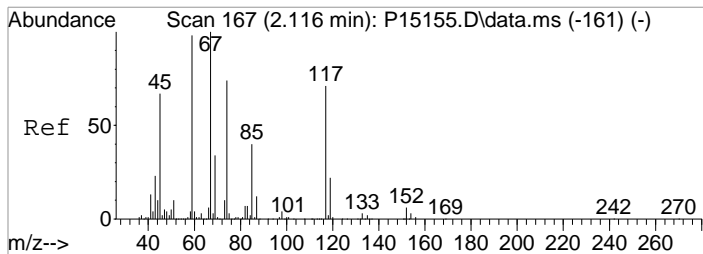
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16704.D
 Acq On : 27 Mar 2018 2:43 pm
 Operator : K.Ruest
 Sample : R1802551-009|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

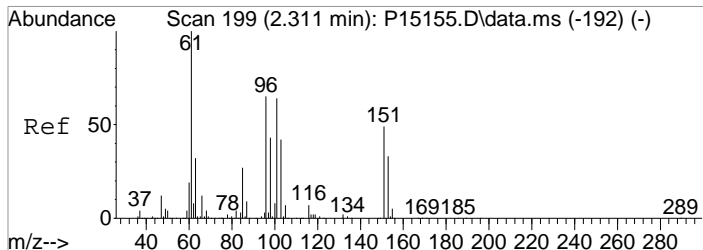
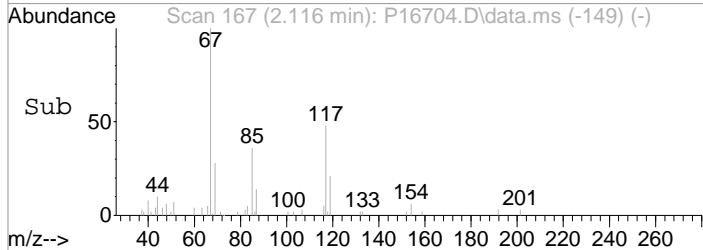
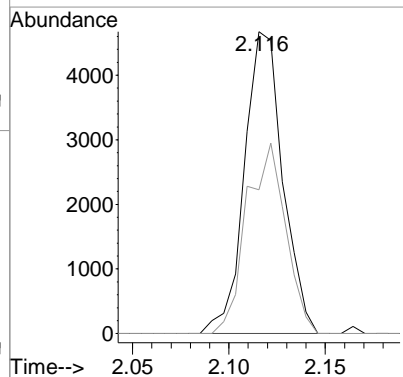
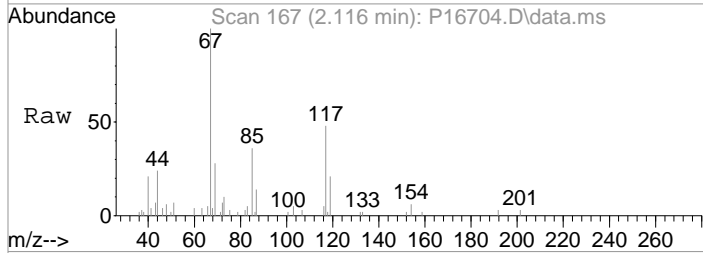
Quant Time: Mar 27 17:01:02 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





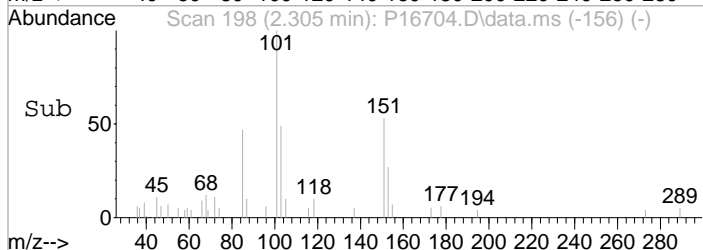
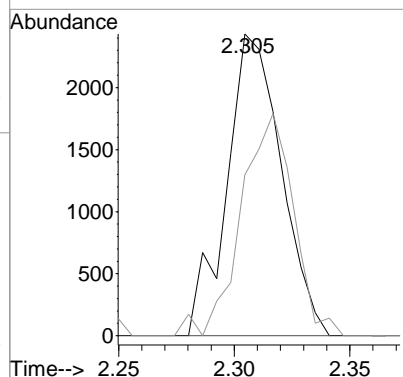
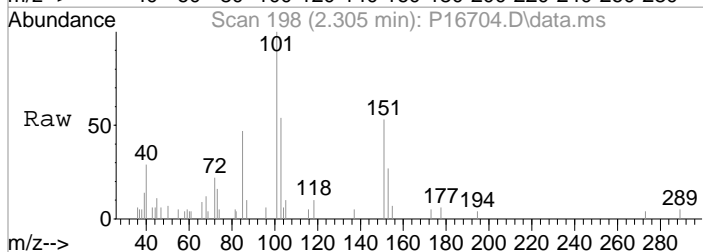
#10
 Freon 123a
 Concen: 1.90 ppb
 RT: 2.116 min Scan# 167
 Delta R.T. -0.006 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

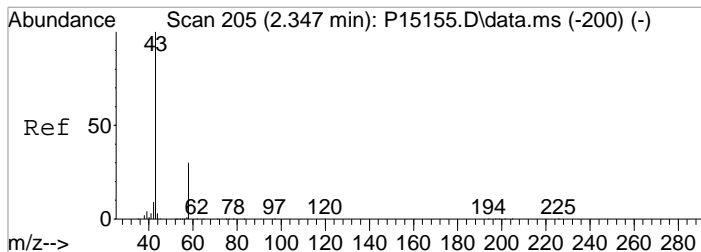
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 67 | 100 | | |
| 117 | 47.6 | 50.3 | 90.3# |



#14
 Freon 113
 Concen: 1.46 ppb
 RT: 2.305 min Scan# 198
 Delta R.T. 0.000 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

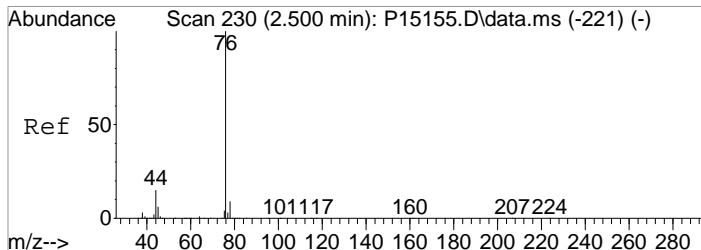
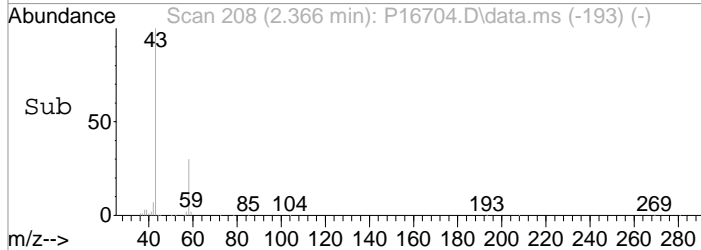
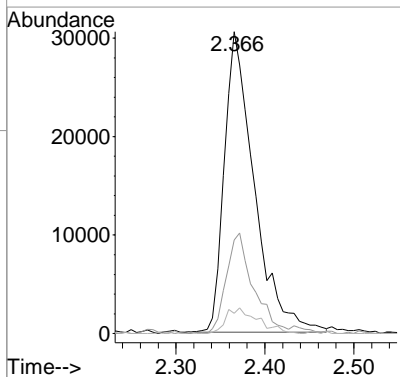
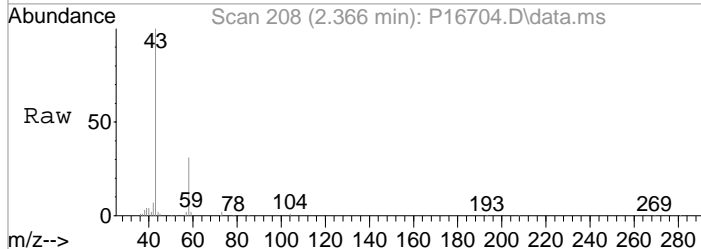
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 100 | | |
| 151 | 53.4 | 56.3 | 96.3# |





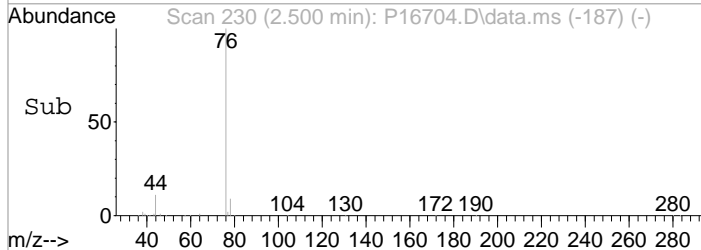
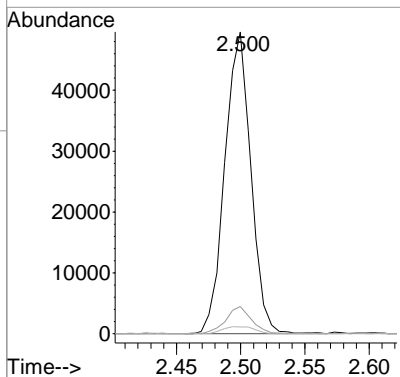
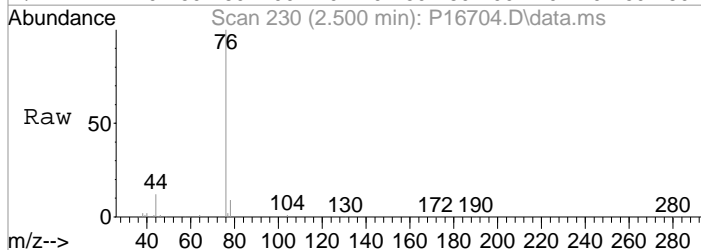
#15
 Acetone
 Concen: 41.40 ppb
 RT: 2.366 min Scan# 208
 Delta R.T. 0.018 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

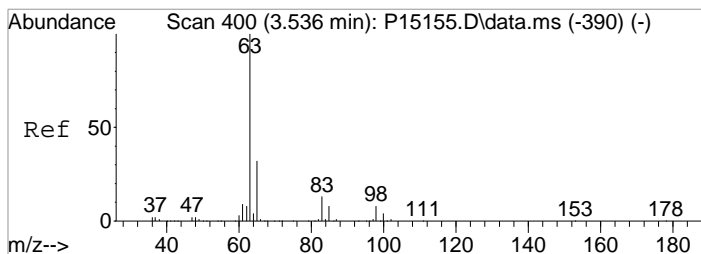
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 71348 | | |
| 58 | 31.0 | 9.7 | 49.7 |
| 42 | 6.7 | 0.0 | 29.2 |



#18
 Carbon Disulfide
 Concen: 8.25 ppb
 RT: 2.500 min Scan# 230
 Delta R.T. 0.006 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

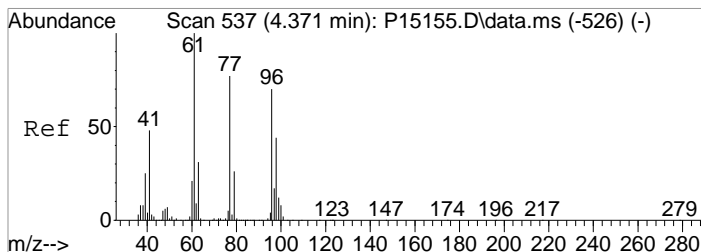
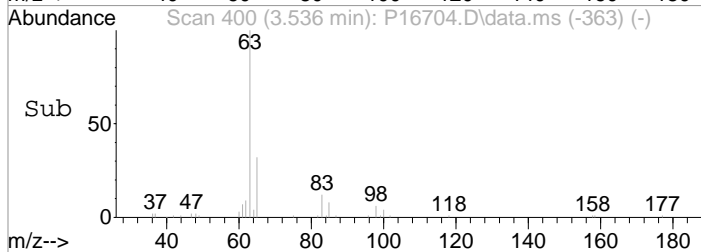
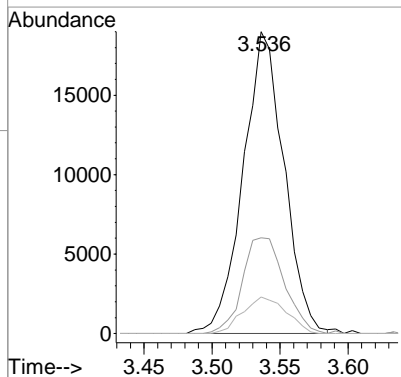
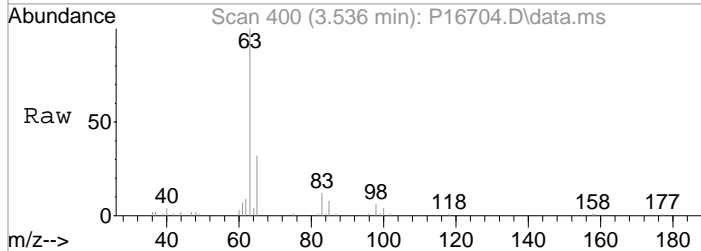
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 76 | 69896 | | |
| 78 | 9.0 | 0.0 | 29.5 |
| 77 | 2.2 | 0.0 | 23.1 |





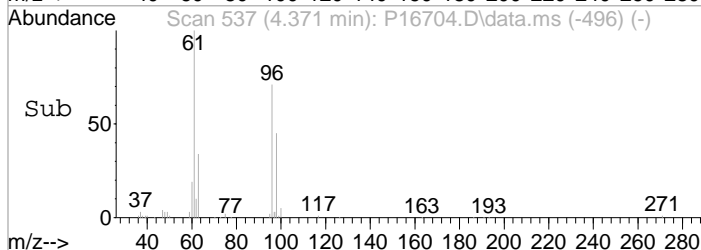
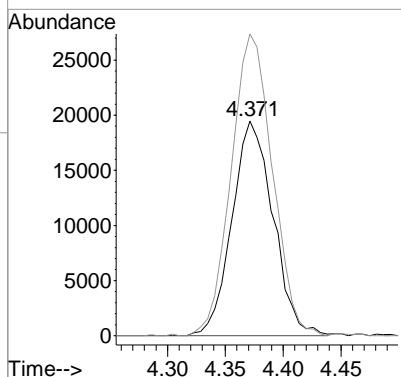
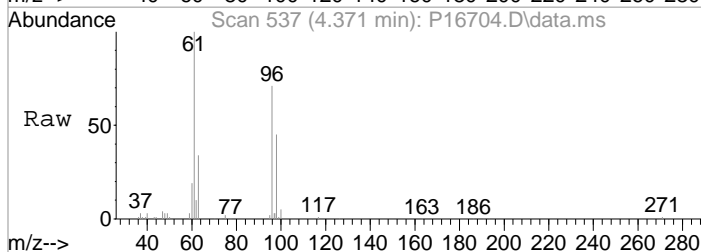
#28
 1,1-Dicylethane
 Concen: 7.27 ppb
 RT: 3.536 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

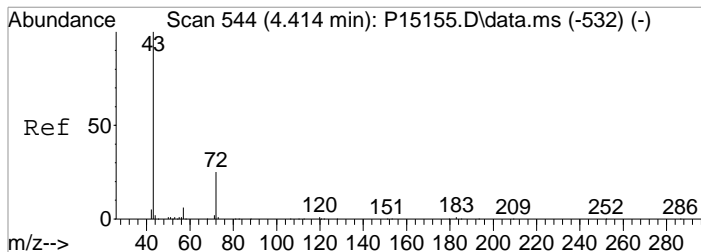
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 63 | 39537 | | |
| 65 | 31.7 | 12.3 | 52.3 |
| 83 | 12.1 | 0.0 | 33.4 |



#34
 cis-1,2-Dichloroethene
 Concen: 14.28 ppb
 RT: 4.371 min Scan# 537
 Delta R.T. -0.006 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

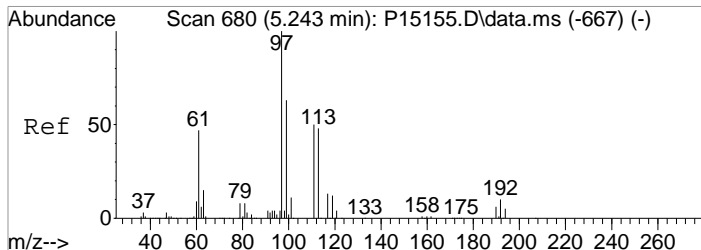
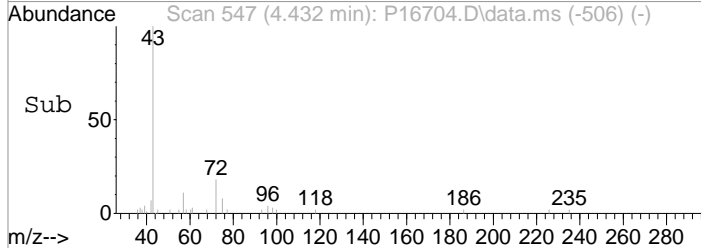
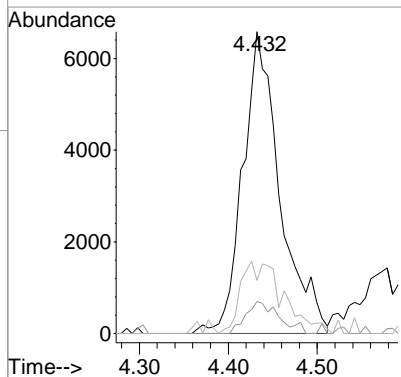
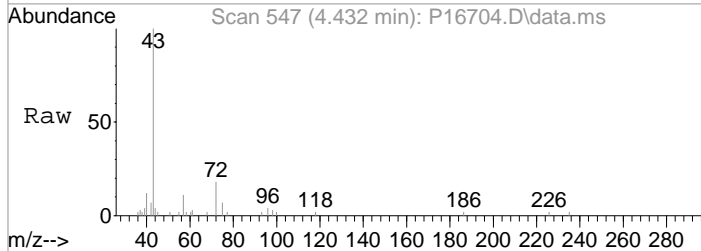
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 96 | 48207 | | |
| 96 | 100 | | |
| 61 | 140.6 | 122.8 | 162.8 |





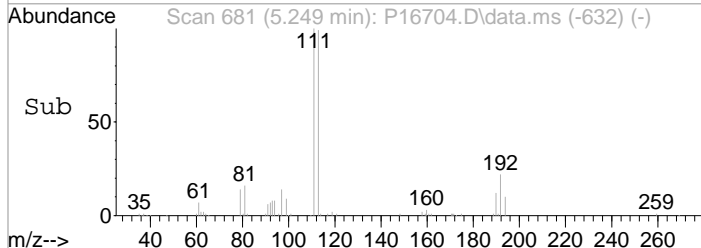
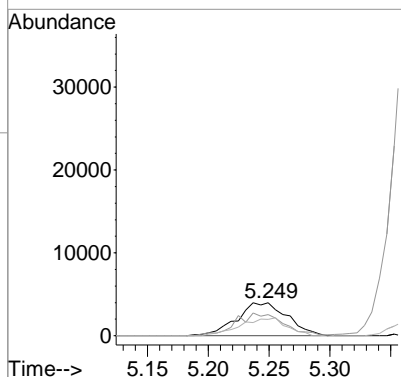
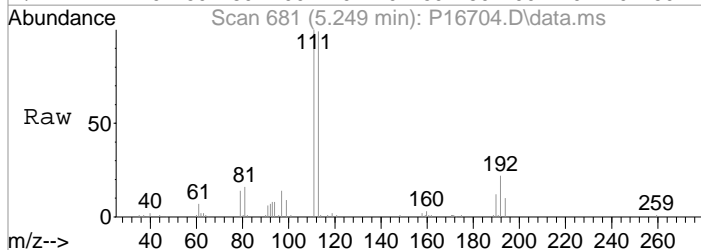
#35
 2-Butanone
 Concen: 8.83 ppb
 RT: 4.432 min Scan# 547
 Delta R.T. 0.025 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

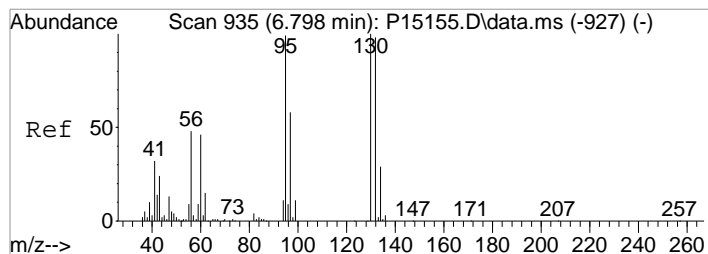
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 19116 | | |
| 57 | 10.6 | 0.0 | 26.7 |
| 72 | 17.6 | 6.1 | 46.1 |



#41
 1,1,1-Trichloroethane
 Concen: 2.49 ppb
 RT: 5.249 min Scan# 681
 Delta R.T. 0.018 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

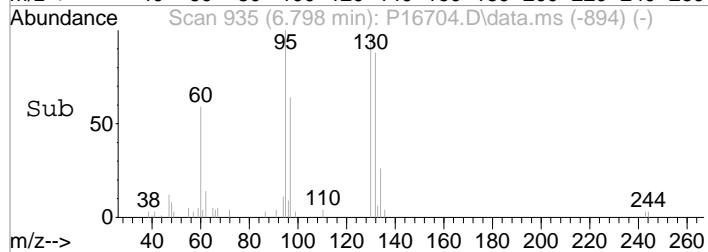
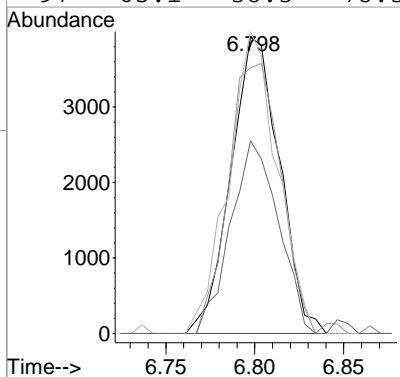
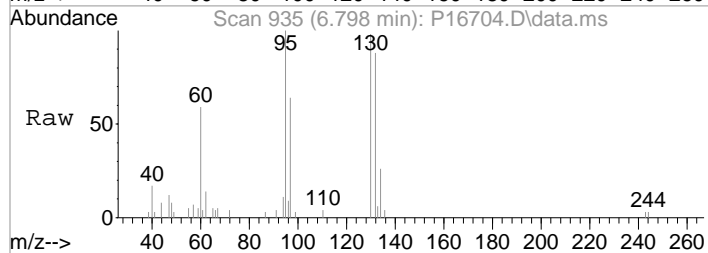
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 97 | 11540 | | |
| 99 | 67.8 | 43.1 | 83.1 |
| 61 | 50.2 | 26.9 | 66.9 |





#54
 Trichloroethene
 Concen: 2.32 ppb
 RT: 6.798 min Scan# 935
 Delta R.T. 0.000 min
 Lab File: P16704.D
 Acq: 27 Mar 2018 2:43 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 130 | 7462 | | |
| 130 | 100 | | |
| 132 | 89.7 | 78.3 | 118.3 |
| 95 | 101.9 | 78.7 | 118.7 |
| 97 | 65.1 | 38.3 | 78.3 |



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16698.D
 Acq On : 27 Mar 2018 12:22 pm
 Operator : K.Ruest
 Sample : VBLK Inst : MSVOA-12
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:17:59 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

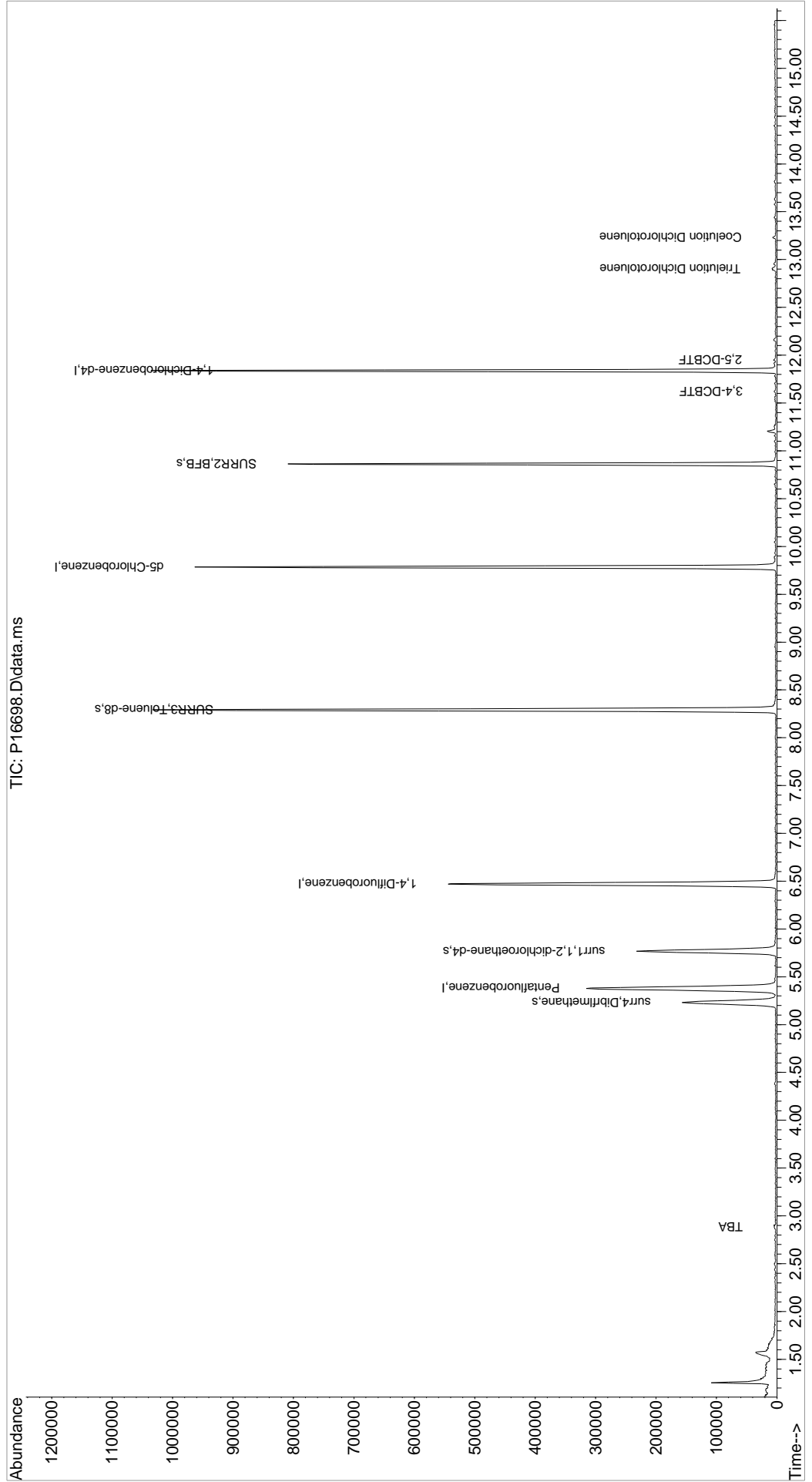
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|----------------|----------|-------|--------|------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.383 | 168 | 285373 | 50.00 | ppb | 0.00 |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 478787 | 50.00 | ppb | 0.00 |
| 71) d5-Chlorobenzene | 9.785 | 117 | 414857 | 50.00 | ppb | 0.00 |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 202807 | 50.00 | ppb | 0.00 |
| System Monitoring Compounds | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 130735 | 45.99 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 91.98% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 191415 | 49.14 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 98.28% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 627976 | 49.47 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.94% | |
| 70) SURR2,BFB | 10.864 | 95 | 223476 | 45.50 | ppb | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 91.00% | |
| Target Compounds | | | | | | |
| 23) TBA | 2.884 | 59 | 1084 | 1.88 | ppb | Qvalue 100 |
| 102) 3,4-DCBTF | 11.620 | 214 | 668 | 0.21 | ppb | # 61 |
| 108) 2,5-DCBTF | 11.949 | 214 | 662 | 0.21 | ppb | # 76 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 2786 | 0.46 | ppb | # 81 |
| 114) Coelution Dichlorotoluene | 13.235 | 125 | 1667 | 0.26 | ppb | # 89 |

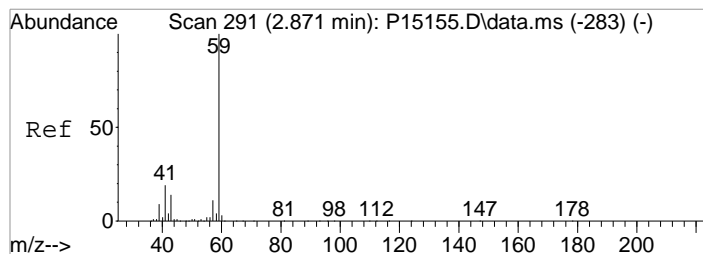
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16698.D
 Acq On : 27 Mar 2018 12:22 pm
 Operator : K.Ruest
 Sample : VBLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

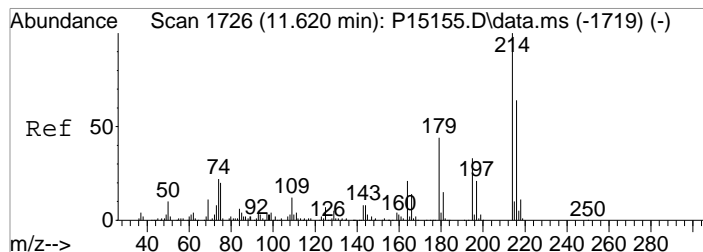
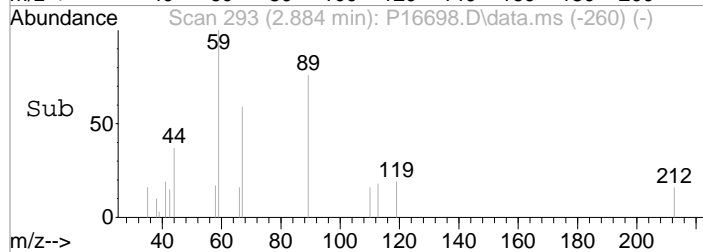
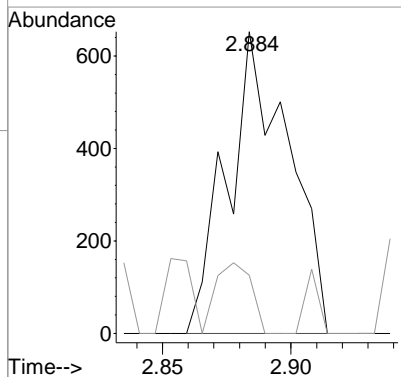
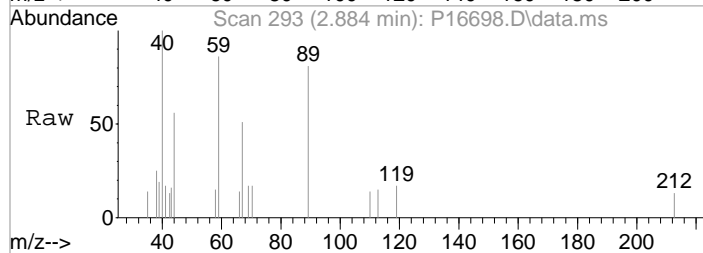
Quant Time: Mar 27 14:17:59 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration





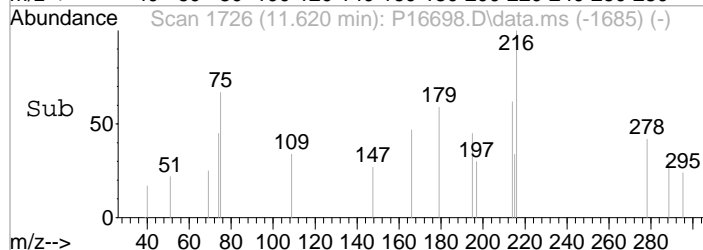
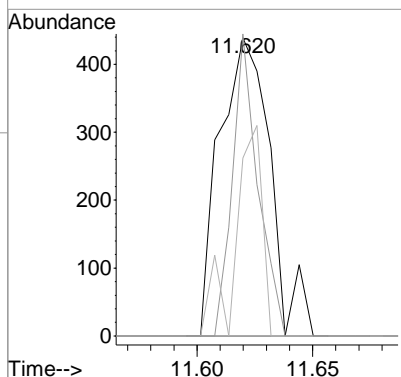
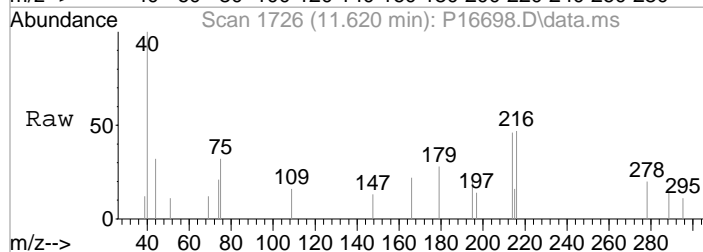
#23
 TBA
 Concen: 1.88 ppb
 RT: 2.884 min Scan# 293
 Delta R.T. 0.012 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

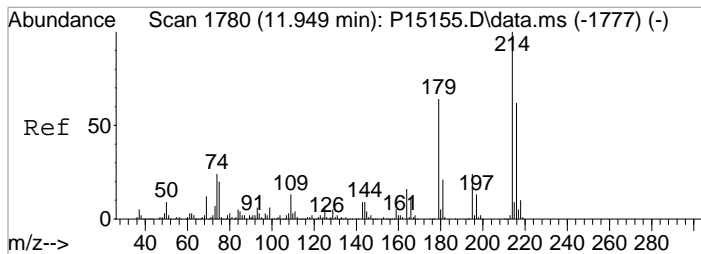
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 1084 | | |
| 41 | 19.3 | 0.0 | 39.4 |



#102
 3,4-DCBTF
 Concen: 0.21 ppb
 RT: 11.620 min Scan# 1726
 Delta R.T. 0.000 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

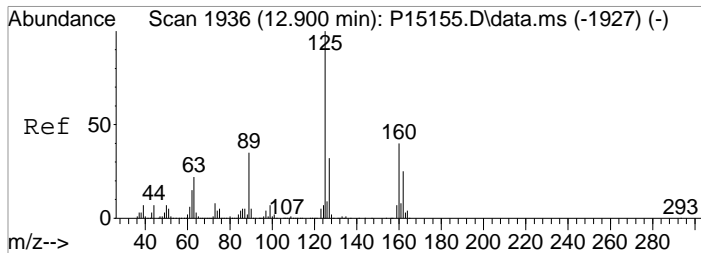
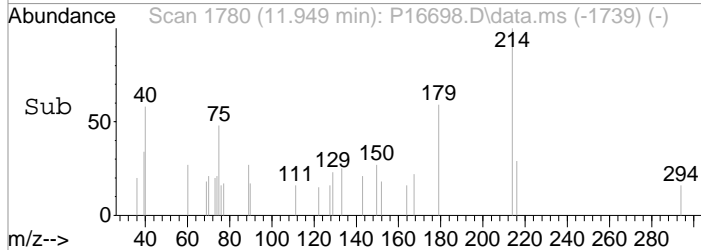
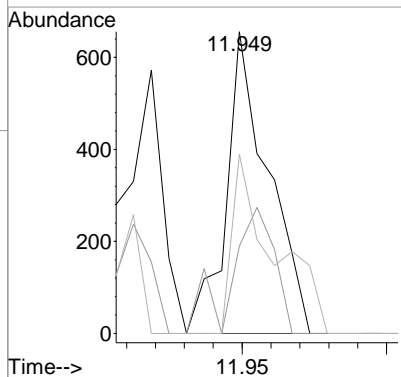
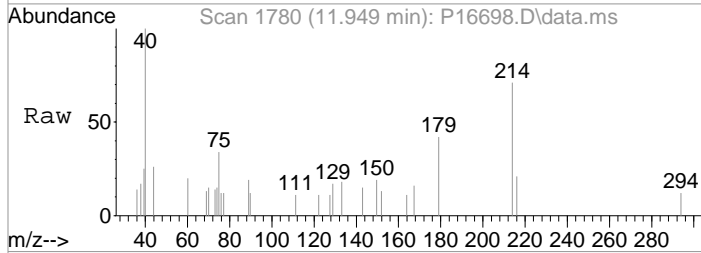
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 214 | 668 | | |
| 216 | 101.4 | 51.0 | 76.6# |
| 179 | 59.7 | 34.9 | 52.3# |





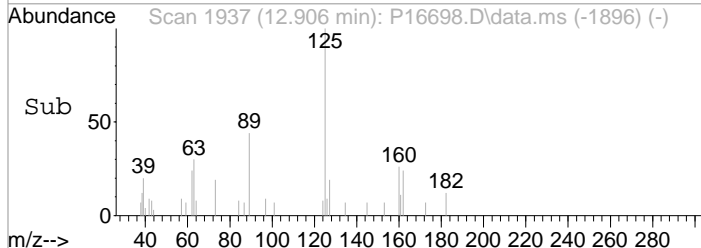
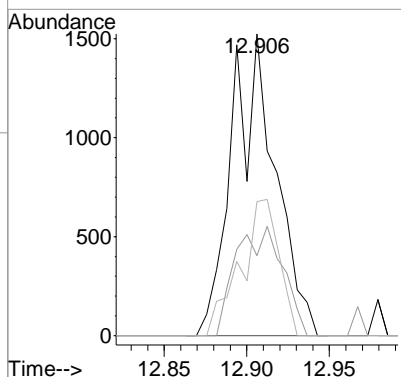
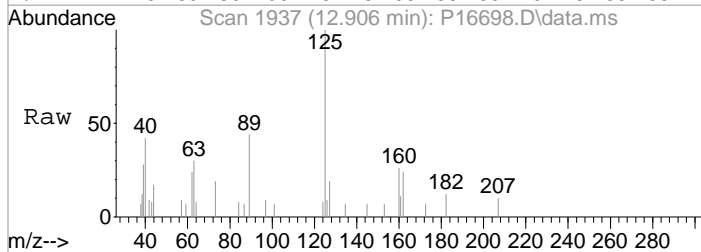
#108
 2,5-DCBTF
 Concen: 0.21 ppb
 RT: 11.949 min Scan# 1780
 Delta R.T. 0.000 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

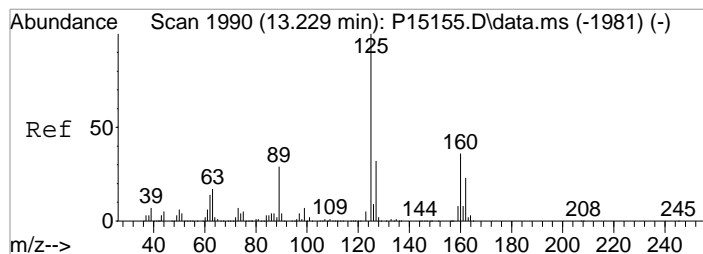
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 214 | 100 | | |
| 216 | 29.0 | 49.6 | 74.4# |
| 179 | 59.3 | 51.6 | 77.4 |



#112
 Trielution Dichlorotoluene
 Concen: 0.46 ppb
 RT: 12.906 min Scan# 1937
 Delta R.T. 0.000 min
 Lab File: P16698.D
 Acq: 27 Mar 2018 12:22 pm

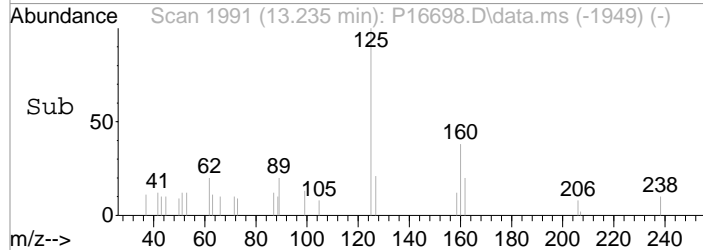
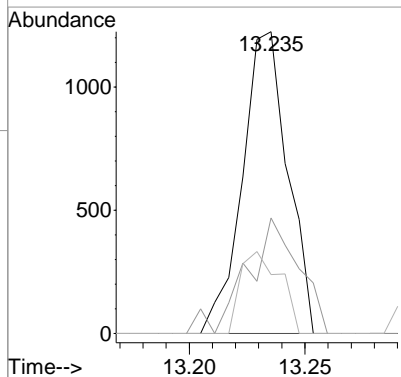
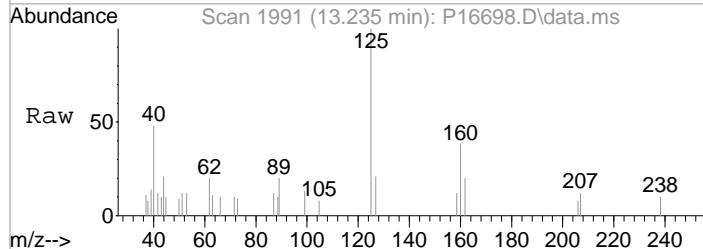
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 100 | | |
| 160 | 26.5 | 32.2 | 48.2# |
| 89 | 44.5 | 28.3 | 42.5# |





#114
Coelution Dichlorotoluene
Concen: 0.26 ppb
RT: 13.235 min Scan# 1991
Delta R.T. 0.006 min
Lab File: P16698.D
Acq: 27 Mar 2018 12:22 pm

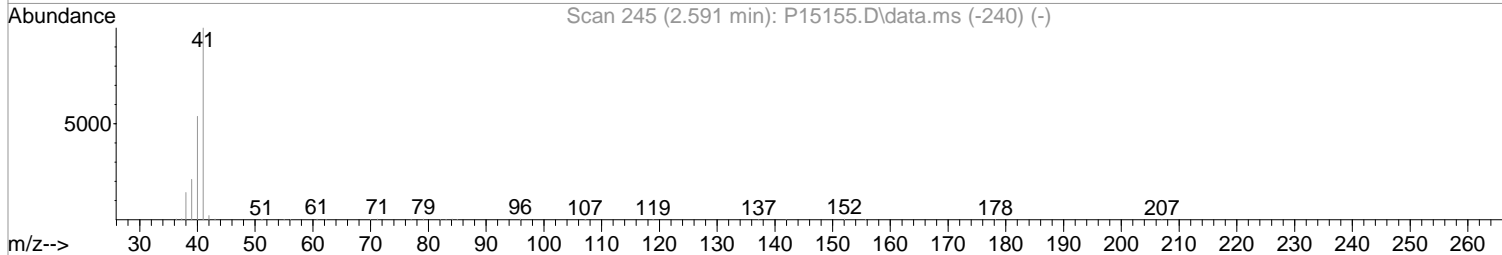
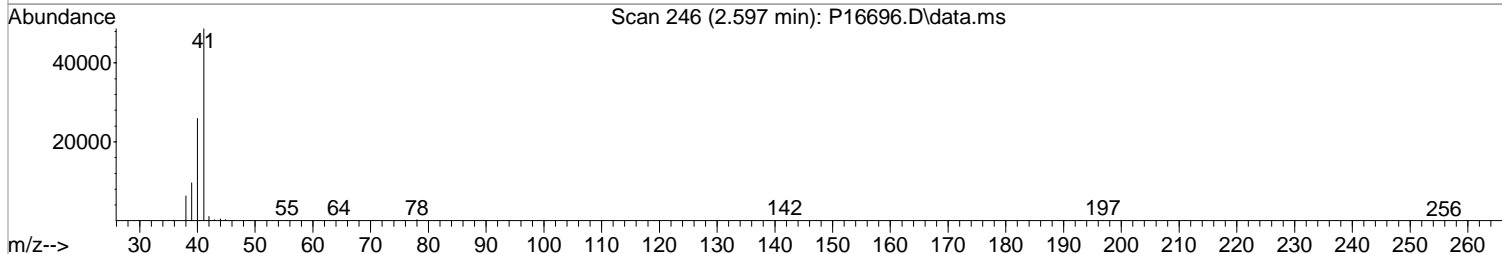
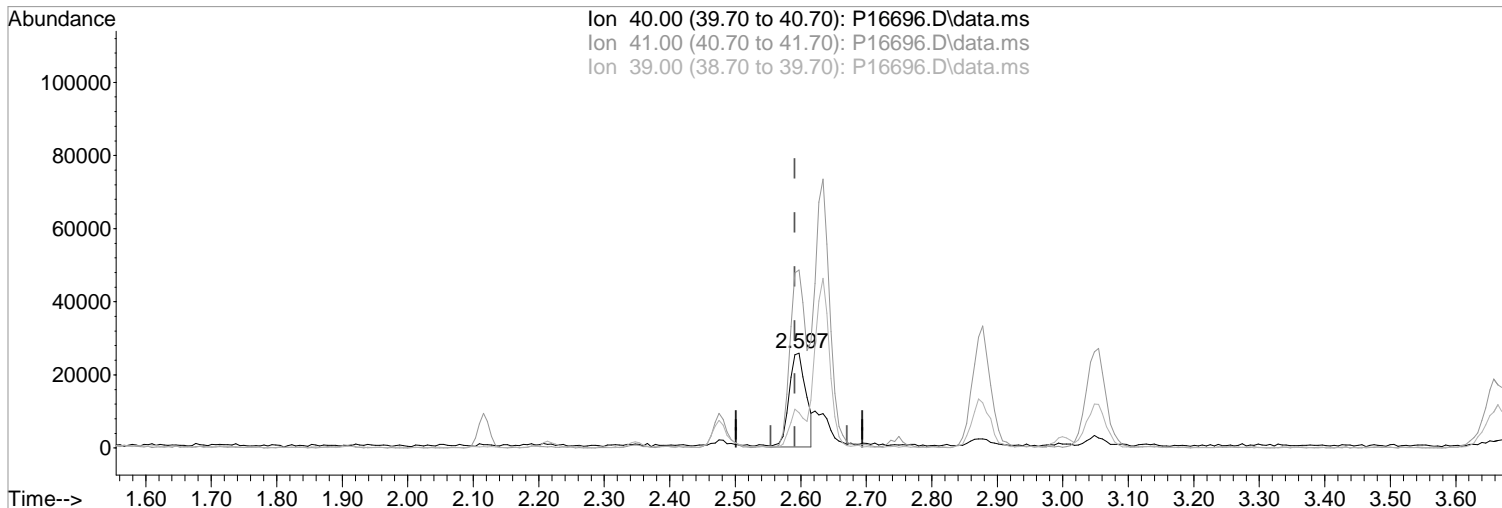
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 100 | | |
| 160 | 38.3 | 28.4 | 42.6 |
| 89 | 19.5 | 23.2 | 34.8# |



Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16696.D
Acq On : 27 Mar 2018 11:30 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:54:53 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16696.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 145.74 ppb m
response 45873

Manual Integration:

After

Poor integration.

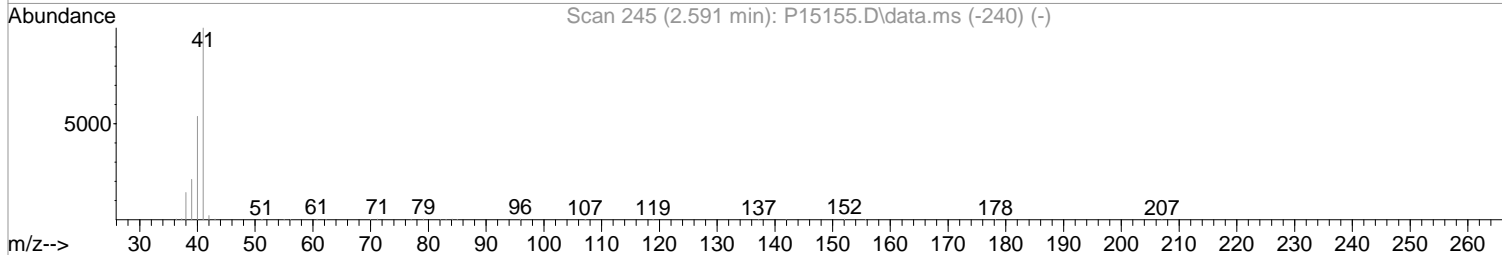
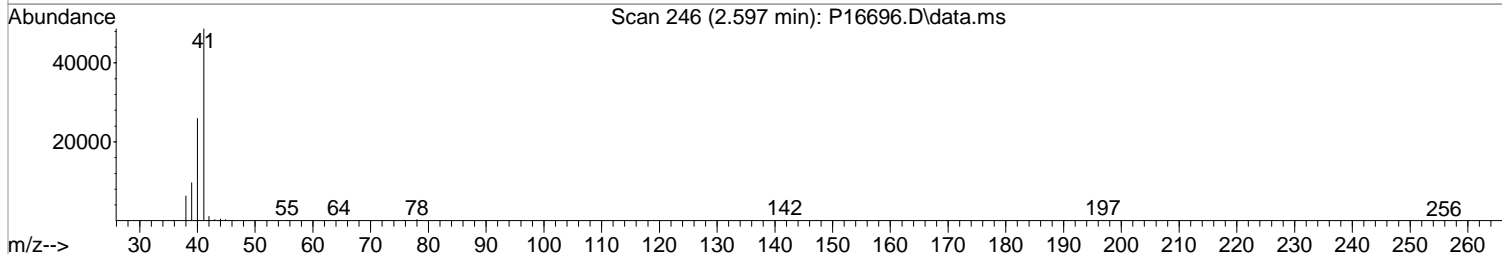
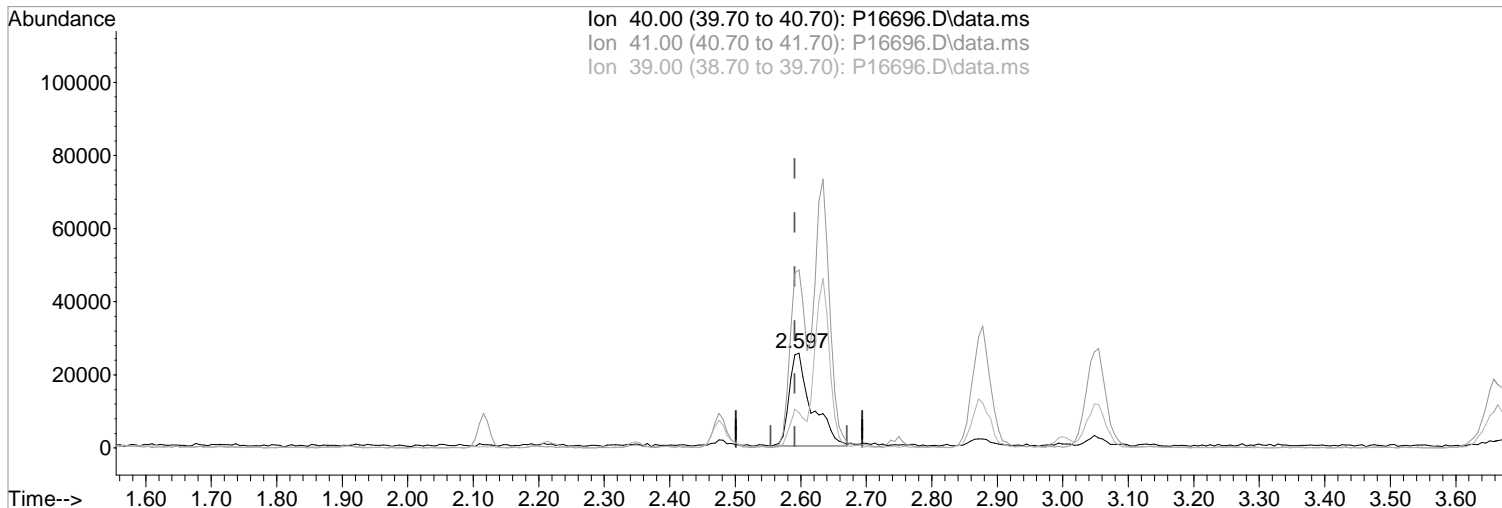
03/27/18

| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 187.54 |
| 39.00 | 40.10 | 37.20 |
| 0.00 | 0.00 | 0.00 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
Data File : P16696.D
Acq On : 27 Mar 2018 11:30 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:54:53 2018
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Jan 02 13:02:22 2018
Response via : Initial Calibration



TIC: P16696.D\data.ms

(19) Acetonitrile
2.597min (+0.006) 192.49 ppb
response 60588

Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|--------|--------|
| 40.00 | 100 | 100 |
| 41.00 | 186.50 | 187.54 |
| 39.00 | 40.10 | 37.20 |
| 0.00 | 0.00 | 0.00 |

03/27/18

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|-------|----------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 302355 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 517963 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 456652 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 225614 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 147394 | 47.93 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 95.86% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 203758 | 48.35 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 96.70% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 680879 | 49.58 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 99.16% | |
| 70) SURR2,BFB | 10.864 | 95 | 250737 | 47.19 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 94.38% | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 93570 | 25.44 | ppb | | 98 |
| 3) Chloromethane | 1.311 | 50 | 93421 | 20.32 | ppb | | 97 |
| 4) Vinyl Chloride | 1.384 | 62 | 96363 | 21.52 | ppb | | 100 |
| 5) Bromomethane | 1.610 | 94 | 40494 | 10.87 | ppb | | 96 |
| 6) Chloroethane | 1.689 | 64 | 56153 | 20.08 | ppb | | 93 |
| 7) Freon 21 | 1.835 | 67 | 122560 | 21.20 | ppb | | 98 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 87306 | 20.23 | ppb | | 99 |
| 9) Diethyl Ether | 2.116 | 59 | 78786 | 26.23 | ppb | | 93 |
| 10) Freon 123a | 2.116 | 67 | 82500 | 22.59 | ppb | | 89 |
| 11) Freon 123 | 2.170 | 83 | 118901 | 28.14 | ppb | | 97 |
| 12) Acrolein | 2.219 | 56 | 34358 | 38.44 | ppb | | 96 |
| 13) 1,1-Dicethene | 2.305 | 96 | 59830 | 19.26 | ppb | | 98 |
| 14) Freon 113 | 2.311 | 101 | 50554 | 17.23 | ppb | | 98 |
| 15) Acetone | 2.347 | 43 | 52193 | 28.31 | ppb | | 96 |
| 16) 2-Propanol | 2.475 | 45 | 172752 | 488.38 | ppb | | 97 |
| 17) Iodomethane | 2.433 | 142 | 71435 | 21.97 | ppb | | 96 |
| 18) Carbon Disulfide | 2.500 | 76 | 195126 | 21.54 | ppb | | 97 |
| 19) Acetonitrile | 2.597 | 40 | 45873m | 145.74 | ppb | | |
| 20) Allyl Chloride | 2.634 | 76 | 36536 | 22.09 | ppb | # | 90 |
| 21) Methyl Acetate | 2.658 | 43 | 86315 | 26.22 | ppb | | 99 |
| 22) Methylene Chloride | 2.750 | 84 | 77580 | 23.68 | ppb | | 94 |
| 23) TBA | 2.878 | 59 | 290482 | 476.41 | ppb | | 91 |
| 24) Acrylonitrile | 3.000 | 53 | 240626 | 135.97 | ppb | | 100 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 265325 | 23.83 | ppb | | 97 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 65556 | 20.66 | ppb | | 90 |
| 28) 1,1-Dicethane | 3.536 | 63 | 133024 | 22.85 | ppb | | 98 |
| 29) Vinyl Acetate | 3.627 | 86 | 20417 | 21.96 | ppb | | 99 |
| 30) DIPE | 3.664 | 45 | 277248 | 25.01 | ppb | | 94 |
| 31) 2-Chloro-1,3-Butadiene | 3.664 | 53 | 124595 | 22.13 | ppb | | 100 |
| 32) ETBE | 4.188 | 59 | 269012 | 24.06 | ppb | | 98 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 95167 | 18.38 | ppb | | 99 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 75813 | 20.99 | ppb | | 97 |
| 35) 2-Butanone | 4.408 | 43 | 58853 | 25.41 | ppb | | 97 |
| 36) Propionitrile | 4.493 | 54 | 97752 | 129.97 | ppb | | 99 |
| 37) Bromochloromethane | 4.761 | 130 | 45791 | 21.91 | ppb | | 90 |
| 38) Methacrylonitrile | 4.761 | 67 | 48712 | 27.30 | ppb | | 90 |
| 39) Tetrahydrofuran | 4.853 | 42 | 40156 | 29.71 | ppb | | 92 |
| 40) Chloroform | 4.944 | 83 | 118205 | 20.17 | ppb | | 98 |
| 41) 1,1,1-Trichloroethane | 5.237 | 97 | 85282 | 17.19 | ppb | | 94 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.090 | 73 | 259480 | 23.78 | ppb | 96 |
| 44) Cyclohexane | 5.334 | 41 | 70550 | 20.85 | ppb | 90 |
| 46) Carbontetrachloride | 5.523 | 117 | 59737 | 15.36 | ppb | 91 |
| 47) 1,1-Dichloropropene | 5.536 | 75 | 88834 | 19.47 | ppb | 97 |
| 49) Benzene | 5.847 | 78 | 285890 | 21.13 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.883 | 62 | 109177 | 21.97 | ppb | 96 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 126847 | 462.20 | ppb | 97 |
| 52) n-Heptane | 6.340 | 43 | 93059 | 20.04 | ppb | 94 |
| 53) 1-Butanol | 6.822 | 56 | 212197 | 1168.57 | ppb | 99 |
| 54) Trichloroethene | 6.798 | 130 | 65337 | 18.83 | ppb | 93 |
| 55) Methylcyclohexane | 7.041 | 55 | 101785 | 22.55 | ppb | 86 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 80438 | 22.29 | ppb | 98 |
| 57) Dibromomethane | 7.218 | 93 | 46022 | 21.36 | ppb | 96 |
| 58) 1,4-Dioxane | 7.279 | 88 | 36159 | 507.53 | ppb | 89 |
| 59) Methyl Methacrylate | 7.304 | 69 | 75719 | 22.71 | ppb | 96 |
| 60) Bromodichloromethane | 7.450 | 83 | 85102 | 18.73 | ppb | 98 |
| 61) 2-Nitropropane | 7.730 | 41 | 42958 | 30.62 | ppb | 99 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 48564 | 58.22 | ppb | 89 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 121609 | 21.21 | ppb | 97 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 104812 | 23.80 | ppb | 96 |
| 66) Toluene | 8.364 | 91 | 291927 | 19.86 | ppb | 97 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 108569 | 20.33 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.779 | 69 | 127736 | 23.43 | ppb | 99 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 72042 | 21.58 | ppb | 97 |
| 72) Tetrachloroethene | 8.956 | 164 | 43529 | 17.27 | ppb | 95 |
| 73) 2-Hexanone | 9.114 | 43 | 77525 | 23.06 | ppb | 92 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 137501 | 23.43 | ppb | 100 |
| 75) Dibromochloromethane | 9.218 | 129 | 58891 | 19.23 | ppb | 99 |
| 76) N-Butyl Acetate | 9.273 | 43 | 158618 | 25.07 | ppb | 94 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 71145 | 21.87 | ppb | 92 |
| 78) Chlorobenzene | 9.809 | 112 | 183970 | 20.56 | ppb | 96 |
| 79) 3-CBTF | 9.828 | 180 | 100492 | 21.07 | ppb | 94 |
| 80) 4-CBTF | 9.882 | 180 | 90890 | 20.85 | ppb | 98 |
| 81) 1,1,1,2-Tetrachloroethane | 9.901 | 131 | 60134 | 18.91 | ppb | 97 |
| 82) Ethylbenzene | 9.931 | 106 | 95321 | 19.30 | ppb | 98 |
| 83) (m+p)Xylene | 10.047 | 106 | 233361 | 39.03 | ppb | 99 |
| 84) o-Xylene | 10.401 | 106 | 117466 | 19.62 | ppb | 97 |
| 85) Styrene | 10.419 | 104 | 202943 | 20.14 | ppb | 98 |
| 87) Bromoform | 10.565 | 173 | 38206 | 19.41 | ppb | 97 |
| 88) 2-CBTF | 10.651 | 180 | 94593 | 21.65 | ppb | 89 |
| 89) Isopropylbenzene | 10.736 | 105 | 279655 | 18.87 | ppb | 99 |
| 90) Cyclohexanone | 10.797 | 55 | 406229 | 360.25 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 28385 | 24.16 | ppb | 83 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 109435 | 24.46 | ppb | 99 |
| 93) Bromobenzene | 10.986 | 156 | 77089 | 21.23 | ppb | # 87 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 34313 | 23.61 | ppb | 94 |
| 95) n-Propylbenzene | 11.096 | 91 | 337491 | 19.58 | ppb | 98 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 216766 | 20.28 | ppb | 97 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 249989 | 22.18 | ppb | 94 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 244667 | 19.82 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 234435 | 18.91 | ppb | 99 |
| 100) tert-Butylbenzene | 11.522 | 119 | 195781 | 18.29 | ppb | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 249111 | 20.06 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 81298 | 23.43 | ppb | 98 |
| 103) sec-Butylbenzene | 11.705 | 105 | 290893 | 18.47 | ppb | 98 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 245832 | 18.55 | ppb | 97 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16696.D
 Acq On : 27 Mar 2018 11:30 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Mar 27 11:55:27 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 144467 | 20.93 | ppb | 97 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 145267 | 20.06 | ppb | 99 |
| 107) 2,4-DCBTF | 11.912 | 214 | 73333 | 22.16 | ppb | 95 |
| 108) 2,5-DCBTF | 11.955 | 214 | 83967 | 23.73 | ppb | 92 |
| 109) n-Butylbenzene | 12.156 | 91 | 242955 | 19.65 | ppb | 99 |
| 110) 1,2-Dclbenz | 12.162 | 146 | 146675 | 21.30 | ppb | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 21962 | 18.97 | ppb | 91 |
| 112) Trielution Dichlorotol... | 12.906 | 125 | 458332 | 67.65 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 124523 | 23.22 | ppb | 97 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 338033 | 47.05 | ppb | 99 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 116296 | 23.23 | ppb | 95 |
| 116) Hexachlorobt | 13.577 | 225 | 39623 | 17.05 | ppb | 98 |
| 117) Naphthalen | 13.626 | 128 | 357379 | 25.87 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.821 | 180 | 117709 | 24.20 | ppb | 97 |
| 119) 2,4,5-Trichlorotolene | 14.406 | 159 | 56947 | 19.17 | ppb | 95 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 52609 | 18.81 | ppb | 94 |

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

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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 Pentafluorobenzene | 1.0000 | 1.0000 | 0.0 | 111 | 0.00 |
| 2 P Dichlorodifluoromethane | 0.6083 | 0.6226 | -2.4 | 106 | 0.00 |
| 3 P Chloromethane | 0.7602 | 0.7017 | 7.7 | 106 | 0.00 |
| 4 P Vinyl Chloride | 0.7405 | 0.7573 | -2.3 | 112 | 0.00 |
| 5 P Bromomethane | 0.5812 | 0.2966 | 49.3 | 49.0 # | 70 0.00 |
| 6 P Chloroethane | 0.4623 | 0.4754 | -2.8 | 114 | 0.00 |
| 7 Freon 21 | 0.9560 | 1.1266 | -17.8 | 129 | 0.00 |
| 8 P Trichlorofluoromethane | 0.7136 | 0.6744 | 5.5 | 105 | 0.00 |
| 9 Diethyl Ether | 0.4967 | 0.5865 | -18.1 | 138 | 0.00 |
| 10 Freon 123a | 0.6039 | 0.7041 | -16.6 | 131 | 0.00 |
| 11 Freon 123 | 0.6987 | 0.7902 | -13.1 | 126 | 0.00 |
| 12 Acrolein | 0.1478 | 0.1118 | NT | 24.4# | 86 0.00 |
| 13 P 1,1-Dicethene | 0.5136 | 0.4806 | 6.4 | 113 | 0.00 |
| 14 P Freon 113 | 0.4853 | 0.4490 | 7.5 | 106 | 0.00 |
| 15 P Acetone | 0.3049 | 0.3539 | -16.1 | 128 | 0.00 |
| 16 2-Propanol | 0.0585 | 0.0700 | -19.7 | 143 | 0.00 |
| 17 Iodomethane | 0.5271 | 0.6078 | 2.4 | 15.3 | 105 0.00 |
| 18 P Carbon Disulfide | 1.4979 | 1.4889 | 0.6 | 109 | 0.00 |
| 19 Acetonitrile | 0.0521 | 0.0706 | NT | -35.5# | 162 0.00 |
| 20 Allyl Chloride | 0.2735 | 0.3010 | -10.1 | 128 | 0.00 |
| 21 P Methyl Acetate | 0.5445 | 0.7300 | NT | -34.1# | 156 0.00 |
| 22 P Methylene Chloride | 0.5417 | 0.5900 | -8.9 | 124 | 0.00 |
| 23 TBA | 0.1008 | 0.1091 | -8.2 | 128 | 0.00 |
| 24 Acrylonitrile | 0.2927 | 0.3544 | NT | -21.1# | 141 0.00 |
| 25 P Methyl-t-Butyl Ether | 1.8411 | 1.9998 | -8.6 | 123 | 0.00 |
| 26 P trans-1,2-Dichloroethene | 0.5246 | 0.5226 | 0.4 | 113 | 0.00 |
| 27 Halothane | 0.0000 | 0.0000 | 0.0 | 0# | -4.00# |
| 28 P 1,1-Dicethane | 0.9627 | 1.0471 | -8.8 | 122 | 0.00 |
| 29 Vinyl Acetate | 0.1537 | 0.1397 | 9.1 | 104 | 0.00 |
| 30 DIPE | 1.8333 | 2.1616 | -17.9 | 134 | 0.00 |
| 31 2-Chloro-1,3-Butadiene | 0.9310 | 0.9269 | 0.4 | 115 | 0.00 |
| 32 ETBE | 1.8488 | 2.0821 | -12.6 | 123 | 0.01 |
| 33 2,2-Dichloropropane | 0.8561 | 0.7664 | 10.5 | 104 | 0.00 |
| 34 P cis-1,2-Dichloroethene | 0.5972 | 0.6142 | -2.8 | 118 | 0.00 |
| 35 P 2-Butanone | 0.3831 | 0.4559 | -19.0 | 135 | 0.00 |
| 36 Propionitrile | 0.1244 | 0.1442 | -15.9 | 139 | -0.01 |
| 37 Bromochloromethane | 0.3456 | 0.3550 | -2.7 | 121 | 0.02 |
| 38 Methacrylonitrile | 0.2950 | 0.3537 | -19.9 | 135 | 0.00 |
| 39 Tetrahydrofuran | 0.2235 | 0.2833 | NT | -26.8# | 143 0.00 |
| 40 P Chloroform | 0.9692 | 0.9229 | 4.8 | 115 | 0.00 |
| 41 P 1,1,1-Trichloroethane | 0.8203 | 0.7055 | 14.0 | 103 | 0.01 |
| 42 TAME | 1.8047 | 1.9352 | -7.2 | 119 | 0.00 |
| 43 I 1,4-Difluorobenzene | 1.0000 | 1.0000 | 0.0 | 113 | 0.00 |
| 44 P Cyclohexane | 0.3267 | 0.3662 | -12.1 | 132 | 0.00 |
| 45 s surr4,Dibrflmethane | 0.2969 | 0.2784 | 6.2 | 106 | 0.00 |
| 46 P Carbontetrachloride | 0.3753 | 0.3070 | 18.2 | 92 | 0.00 |
| 47 1,1-Dichloropropene | 0.4404 | 0.4376 | 0.6 | 114 | 0.02 |
| 48 s surr1,1,2-dichloroethane-d4 | 0.4068 | 0.3893 | 4.3 | 107 | 0.00 |
| 49 P Benzene | 1.3061 | 1.3628 | -4.3 | 120 | 0.00 |
| 50 P 1,2-Dichloroethane | 0.4798 | 0.4888 | -1.9 | 117 | 0.00 |
| 51 Iso-Butyl Alcohol | 0.0265 | 0.0296 | -11.7 | 133 | 0.00 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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) |
|------|-----------------------------|--------|--------|-------|---------|-----------|
| 52 | n-Heptane | 0.4483 | 0.4896 | -9.2 | 125 | 0.02 |
| 53 | 1-Butanol | 0.0175 | 0.0191 | -9.1 | 124 | -0.01 |
| 54 P | Trichloroethene | 0.3350 | 0.3113 | 7.1 | 105 | 0.00 |
| 55 P | Methylcyclohexane | 0.4357 | 0.5278 | NT | -21.1# | 134 0.00 |
| 56 P | 1,2-Diclp propane | 0.3484 | 0.3835 | -10.1 | 128 | 0.01 |
| 57 | Dibromomethane | 0.2080 | 0.2074 | 0.3 | 115 | 0.00 |
| 58 | 1,4-Dioxane | 0.0069 | 0.0074 | -7.2 | 129 | 0.00 |
| 59 | Methyl Methacrylate | 0.3218 | 0.3431 | -6.6 | 125 | 0.00 |
| 60 P | Bromodichloromethane | 0.4386 | 0.4044 | 7.8 | 111 | 0.00 |
| 61 | 2-Nitropropane | 0.1354 | 0.1046 | NT | 22.7# | 90 0.00 |
| 62 | 2-Chloroethylvinyl Ether | 0.0805 | 0.2341 | NT | -190.8# | 338# 0.00 |
| 63 P | cis-1,3-Dichloropropene | 0.5534 | 0.5717 | -3.3 | 114 | 0.00 |
| 64 P | 4-Methyl-2-pentanone | 0.4251 | 0.4858 | -14.3 | 131 | 0.00 |
| 65 s | SURR3,Toluene-d8 | 1.3256 | 1.3097 | 1.2 | 111 | 0.00 |
| 66 P | Toluene | 1.4187 | 1.4128 | 0.4 | 114 | 0.00 |
| 67 P | trans-1,3-Dichloropropene | 0.5155 | 0.5178 | -0.4 | 112 | 0.00 |
| 68 | Ethyl Methacrylate | 0.5263 | 0.5841 | -11.0 | 124 | 0.00 |
| 69 P | 1,1,2-Trichloroethane | 0.3223 | 0.3203 | 0.6 | 121 | 0.00 |
| 70 s | SURR2,BFB | 0.5129 | 0.4774 | 6.9 | 106 | 0.00 |
| 71 I | d5-Chlorobenzene | 1.0000 | 1.0000 | 0.0 | 110 | 0.00 |
| 72 P | Tetrachloroethene | 0.2759 | 0.2621 | 5.0 | 109 | 0.00 |
| 73 P | 2-Hexanone | 0.3681 | 0.4174 | -13.4 | 127 | 0.00 |
| 74 | 1,3-Dichloropropane | 0.6425 | 0.7305 | -13.7 | 127 | 0.00 |
| 75 P | Dibromochloromethane | 0.3353 | 0.3239 | 3.4 | 105 | 0.00 |
| 76 | N-Butyl Acetate | 0.6929 | 0.9429 | NT | -36.1# | 143 0.00 |
| 77 P | 1,2-Dibromoethane | 0.3562 | 0.3703 | -4.0 | 116 | 0.00 |
| 78 P | Chlorobenzene | 0.9796 | 1.0262 | -4.8 | 115 | 0.00 |
| 79 | 3-CBTF | 0.5223 | 0.5377 | -2.9 | 118 | 0.00 |
| 80 | 4-CBTF | 0.4773 | 0.4858 | -1.8 | 118 | 0.00 |
| 81 | 1,1,1,2-Tetrachloroethane | 0.3482 | 0.3243 | 6.9 | 105 | 0.00 |
| 82 P | Ethylbenzene | 0.5408 | 0.5310 | 1.8 | 110 | 0.00 |
| 83 P | (m+p)Xylene | 0.6546 | 0.6676 | -2.0 | 113 | 0.00 |
| 84 P | o-Xylene | 0.6554 | 0.6701 | -2.2 | 113 | 0.00 |
| 85 P | Styrene | 1.1033 | 1.1507 | -4.3 | 112 | 0.00 |
| 86 I | 1,4-Dichlorobenzene-d4 | 1.0000 | 1.0000 | 0.0 | 111 | 0.00 |
| 87 P | Bromoform | 0.4361 | 0.4079 | 6.5 | 104 | 0.00 |
| 88 | 2-CBTF | 0.9684 | 1.0295 | -6.3 | 118 | 0.00 |
| 89 P | Isopropylbenzene | 3.2851 | 3.2097 | 2.3 | 107 | 0.00 |
| 90 | Cyclohexanone | 0.2499 | 0.2593 | -3.8 | 118 | 0.00 |
| 91 | trans-1,4-Dichloro-2-Butene | 0.2603 | 0.2759 | -6.0 | 120 | 0.00 |
| 92 P | 1,1,2,2-Tetrachloroethane | 0.9914 | 1.1151 | -12.5 | 129 | 0.00 |
| 93 | Bromobenzene | 0.8046 | 0.8147 | -1.3 | 114 | 0.00 |
| 94 | 1,2,3-Trichloropropane | 0.3221 | 0.3363 | -4.4 | 118 | 0.00 |
| 95 | n-Propylbenzene | 3.8197 | 3.8884 | -1.8 | 109 | 0.00 |
| 96 | 2-Chlorotoluene | 2.3682 | 2.3701 | -0.1 | 112 | 0.00 |
| 97 | 3-Chlorotoluene | 2.4978 | 2.5840 | -3.5 | 113 | 0.00 |
| 98 | 4-Chlorotoluene | 2.7362 | 2.7524 | -0.6 | 111 | 0.00 |
| 99 | 1,3,5-Trimethylbenzene | 2.7476 | 2.7124 | 1.3 | 107 | 0.00 |
| 100 | tert-Butylbenzene | 2.3716 | 2.3040 | 2.9 | 106 | 0.00 |
| 101 | 1,2,4-Trimethylbenzene | 2.7517 | 2.7426 | 0.3 | 108 | 0.00 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 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) |
|-------|-----------------------------|--------|--------|----------|------------------|----------|
| 102 | 3,4-DCBTF | 0.7689 | 0.8783 | -14.2 | 123 | 0.00 |
| 103 | sec-Butylbenzene | 3.4901 | 3.4051 | 2.4 | 105 | 0.00 |
| 104 | p-Isopropyltoluene | 2.9371 | 2.8614 | 2.6 | 106 | 0.00 |
| 105 P | 1,3-Dclbenz | 1.5293 | 1.5581 | -1.9 | 112 | 0.00 |
| 106 P | 1,4-Dclbenz | 1.6050 | 1.6208 | -1.0 | 115 | 0.00 |
| 107 | 2,4-DCBTF | 0.7333 | 0.7941 | -8.3 | 120 | 0.00 |
| 108 | 2,5-DCBTF | 0.7842 | 0.8992 | -14.7 | 127 | 0.00 |
| 109 | n-Butylbenzene | 2.7396 | 2.7978 | -2.1 | 108 | 0.00 |
| 110 P | 1,2-Dclbenz | 1.5264 | 1.5514 | -1.6 | 112 | 0.00 |
| 111 P | 1,2-Dibromo-3-chloropropane | 0.2566 | 0.2348 | 8.5 | 111 | 0.00 |
| 112 | Trielution Dichlorotoluene | 1.5014 | 1.6143 | -7.5 | 116 | 0.00 |
| 113 | 1,3,5 Trichlorobenzene | 1.1884 | 1.3332 | -12.2 | 121 | 0.00 |
| 114 | Coelution Dichlorotoluene | 1.5924 | 1.8072 | -13.5 | 118 | 0.00 |
| 115 P | 1,2,4-Tcbenzene | 1.1095 | 1.2841 | -15.7 | 122 | 0.00 |
| 116 | Hexachlorobt | 0.5150 | 0.4843 | 6.0 | 106 | 0.00 |
| 117 | Naphthalen | 3.0613 | 3.7736 | NT-23.3# | 125 | 0.00 |
| 118 | 1,2,3-Tclbenzene | 1.0777 | 1.2786 | -18.6 | 125 | 0.00 |
| 119 | 2,4,5-Trichlorotolene | 0.6534 | 0.8015 | -12.7 | 22.7# | 112 0.00 |
| 120 | 2,3,6-Trichlorotoluene | 0.5941 | 0.7515 | -13.3 | 26.5# | 114 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------|----------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.377 | 168 | 315594 | 50.00 | ppb | 0.00 | |
| 43) 1,4-Difluorobenzene | 6.468 | 114 | 530528 | 50.00 | ppb | 0.00 | |
| 71) d5-Chlorobenzene | 9.785 | 117 | 459768 | 50.00 | ppb | 0.00 | |
| 86) 1,4-Dichlorobenzene-d4 | 11.839 | 152 | 234637 | 50.00 | ppb | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 45) surr4,Dibrflmethane | 5.231 | 113 | 147702 | 46.89 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 89 | - 119 | Recovery | = | 93.78% | |
| 48) surr1,1,2-dichloroetha... | 5.767 | 65 | 206540 | 47.85 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 73 | - 125 | Recovery | = | 95.70% | |
| 65) SURR3,Toluene-d8 | 8.291 | 98 | 694846 | 49.40 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 87 | - 121 | Recovery | = | 98.80% | |
| 70) SURR2,BFB | 10.864 | 95 | 253255 | 46.54 | ppb | 0.00 | |
| Spiked Amount | 50.000 | Range 85 | - 122 | Recovery | = | 93.08% | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.183 | 85 | 196503 | 51.18 | ppb | | 99 |
| 3) Chloromethane | 1.311 | 50 | 221463 | 46.15 | ppb | | 100 |
| 4) Vinyl Chloride | 1.384 | 62 | 239014 | 51.13 | ppb | | 98 |
| 5) Bromomethane | 1.610 | 94 | 93601 | 25.34 | ppb | | 95 |
| 6) Chloroethane | 1.689 | 64 | 150039 | 51.41 | ppb | | 98 |
| 7) Freon 21 | 1.835 | 67 | 355557 | 58.93 | ppb | | 100 |
| 8) Trichlorofluoromethane | 1.884 | 101 | 212824 | 47.25 | ppb | | 97 |
| 9) Diethyl Ether | 2.116 | 59 | 185093 | 59.04 | ppb | | 97 |
| 10) Freon 123a | 2.122 | 67 | 222202 | 58.30 | ppb | | 89 |
| 11) Freon 123 | 2.170 | 83 | 249398 | 56.55 | ppb | | 99 |
| 12) Acrolein | 2.213 | 56 | 176426 | 189.09 | ppb | | 100 |
| 13) 1,1-Diclcethene | 2.305 | 96 | 151659 | 46.78 | ppb | | 94 |
| 14) Freon 113 | 2.311 | 101 | 141691 | 46.26 | ppb | | 96 |
| 15) Acetone | 2.347 | 43 | 111673 | 58.03 | ppb | | 98 |
| 16) 2-Propanol | 2.475 | 45 | 442099 | 1197.40 | ppb | | 100 |
| 17) Iodomethane | 2.433 | 142 | 191812 | 48.81 | ppb | | 99 |
| 18) Carbon Disulfide | 2.500 | 76 | 469885 | 49.70 | ppb | | 99 |
| 19) Acetonitrile | 2.591 | 40 | 111382 | 339.01 | ppb | | 98 |
| 20) Allyl Chloride | 2.634 | 76 | 94988 | 55.02 | ppb | # | 89 |
| 21) Methyl Acetate | 2.658 | 43 | 230389 | 67.04 | ppb | | 98 |
| 22) Methylene Chloride | 2.750 | 84 | 186212 | 54.46 | ppb | | 92 |
| 23) TBA | 2.878 | 59 | 688496 | 1081.81 | ppb | | 94 |
| 24) Acrylonitrile | 3.000 | 53 | 559246 | 302.75 | ppb | | 99 |
| 25) Methyl-t-Butyl Ether | 3.054 | 73 | 631124 | 54.31 | ppb | | 97 |
| 26) trans-1,2-Dichloroethene | 3.042 | 96 | 164935 | 49.81 | ppb | | 94 |
| 28) 1,1-Diclcethane | 3.536 | 63 | 330453 | 54.38 | ppb | | 98 |
| 29) Vinyl Acetate | 3.627 | 86 | 44077 | 45.43 | ppb | | 97 |
| 30) DIPE | 3.664 | 45 | 682201 | 58.95 | ppb | | 91 |
| 31) 2-Chloro-1,3-Butadiene | 3.664 | 53 | 292534 | 49.78 | ppb | | 92 |
| 32) ETBE | 4.188 | 59 | 657086 | 56.31 | ppb | | 97 |
| 33) 2,2-Dichloropropane | 4.365 | 77 | 241875 | 44.76 | ppb | | 97 |
| 34) cis-1,2-Dichloroethene | 4.371 | 96 | 193851 | 51.43 | ppb | | 99 |
| 35) 2-Butanone | 4.414 | 43 | 143870 | 59.50 | ppb | | 98 |
| 36) Propionitrile | 4.493 | 54 | 227508 | 289.80 | ppb | | 94 |
| 37) Bromochloromethane | 4.767 | 130 | 112034 | 51.36 | ppb | | 93 |
| 38) Methacrylonitrile | 4.767 | 67 | 111613 | 59.93 | ppb | | 92 |
| 39) Tetrahydrofuran | 4.853 | 42 | 89393 | 63.37 | ppb | | 91 |
| 40) Chloroform | 4.944 | 83 | 291259 | 47.61 | ppb | | 99 |
| 41) 1,1,1-Trichloroethane | 5.243 | 97 | 222639 | 43.00 | ppb | | 99 |

Data Path : I:\ACQUDATA\msvoal2\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 42) TAME | 6.084 | 73 | 610728 | 53.61 | ppb | 98 |
| 44) Cyclohexane | 5.334 | 41 | 194295 | 56.06 | ppb | 89 |
| 46) Carbontetrachloride | 5.517 | 117 | 162861 | 40.90 | ppb | 99 |
| 47) 1,1-Dichloropropene | 5.536 | 75 | 232157 | 49.68 | ppb | 97 |
| 49) Benzene | 5.847 | 78 | 722988 | 52.17 | ppb | 99 |
| 50) 1,2-Dichloroethane | 5.889 | 62 | 259312 | 50.94 | ppb | 97 |
| 51) Iso-Butyl Alcohol | 5.859 | 43 | 313673 | 1115.89 | ppb | 91 |
| 52) n-Heptane | 6.340 | 43 | 259728 | 54.60 | ppb | 94 |
| 53) 1-Butanol | 6.822 | 56 | 507629 | 2729.31 | ppb | 98 |
| 54) Trichloroethene | 6.798 | 130 | 165149 | 46.47 | ppb | 99 |
| 55) Methylcyclohexane | 7.035 | 55 | 280003 | 60.57 | ppb | 92 |
| 56) 1,2-Diclpropane | 7.078 | 63 | 203449 | 55.03 | ppb | 98 |
| 57) Dibromomethane | 7.218 | 93 | 110008 | 49.84 | ppb | 95 |
| 58) 1,4-Dioxane | 7.279 | 88 | 78076 | 1069.92 | ppb | 96 |
| 59) Methyl Methacrylate | 7.310 | 69 | 182040 | 53.31 | ppb | 96 |
| 60) Bromodichloromethane | 7.450 | 83 | 214554 | 46.11 | ppb | 97 |
| 61) 2-Nitropropane | 7.730 | 41 | 110992 | 77.23 | ppb | 94 |
| 62) 2-Chloroethylvinyl Ether | 7.858 | 63 | 124194 | 145.36 | ppb | 94 |
| 63) cis-1,3-Dichloropropene | 7.992 | 75 | 303300 | 51.66 | ppb | 98 |
| 64) 4-Methyl-2-pentanone | 8.200 | 43 | 257737 | 57.14 | ppb | 99 |
| 66) Toluene | 8.364 | 91 | 749549 | 49.79 | ppb | 98 |
| 67) trans-1,3-Dichloropropene | 8.633 | 75 | 274700 | 50.22 | ppb | 99 |
| 68) Ethyl Methacrylate | 8.779 | 69 | 309863 | 55.49 | ppb | 97 |
| 69) 1,1,2-Trichloroethane | 8.822 | 97 | 169914 | 49.69 | ppb | 96 |
| 72) Tetrachloroethene | 8.962 | 164 | 120500 | 47.49 | ppb | 97 |
| 73) 2-Hexanone | 9.114 | 43 | 191909 | 56.69 | ppb | 95 |
| 74) 1,3-Dichloropropane | 8.992 | 76 | 335854 | 56.85 | ppb | 99 |
| 75) Dibromochloromethane | 9.218 | 129 | 148936 | 48.30 | ppb | 98 |
| 76) N-Butyl Acetate | 9.273 | 43 | 433524 | 68.04 | ppb | 98 |
| 77) 1,2-Dibromoethane | 9.315 | 107 | 170254 | 51.98 | ppb | 97 |
| 78) Chlorobenzene | 9.809 | 112 | 471836 | 52.38 | ppb | 97 |
| 79) 3-CBTF | 9.834 | 180 | 247218 | 51.47 | ppb | 93 |
| 80) 4-CBTF | 9.888 | 180 | 223358 | 50.89 | ppb | 95 |
| 81) 1,1,1,2-Tetrachloroethane | 9.901 | 131 | 149107 | 46.57 | ppb | 96 |
| 82) Ethylbenzene | 9.931 | 106 | 244148 | 49.09 | ppb | 100 |
| 83) (m+p)Xylene | 10.047 | 106 | 613901 | 101.99 | ppb | 95 |
| 84) o-Xylene | 10.401 | 106 | 308098 | 51.12 | ppb | 96 |
| 85) Styrene | 10.419 | 104 | 529056 | 52.15 | ppb | 97 |
| 87) Bromoform | 10.565 | 173 | 95708 | 46.76 | ppb | 97 |
| 88) 2-CBTF | 10.650 | 180 | 241567 | 53.16 | ppb | 91 |
| 89) Isopropylbenzene | 10.736 | 105 | 753107 | 48.85 | ppb | 98 |
| 90) Cyclohexanone | 10.797 | 55 | 1216948 | 1037.69 | ppb | 99 |
| 91) trans-1,4-Dichloro-2-B... | 11.047 | 53 | 64744 | 52.99 | ppb | 89 |
| 92) 1,1,2,2-Tetrachloroethane | 10.998 | 83 | 261639 | 56.24 | ppb | 96 |
| 93) Bromobenzene | 10.986 | 156 | 191151 | 50.63 | ppb | 94 |
| 94) 1,2,3-Trichloropropane | 11.028 | 110 | 78919 | 52.22 | ppb | 99 |
| 95) n-Propylbenzene | 11.095 | 91 | 912368 | 50.90 | ppb | 98 |
| 96) 2-Chlorotoluene | 11.156 | 91 | 556114 | 50.04 | ppb | 95 |
| 97) 3-Chlorotoluene | 11.211 | 91 | 606309 | 51.73 | ppb | 98 |
| 98) 4-Chlorotoluene | 11.248 | 91 | 645821 | 50.30 | ppb | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.248 | 105 | 636428 | 49.36 | ppb | 98 |
| 100) tert-Butylbenzene | 11.522 | 119 | 540603 | 48.57 | ppb | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.559 | 105 | 643526 | 49.83 | ppb | 99 |
| 102) 3,4-DCBTF | 11.620 | 214 | 206090 | 57.11 | ppb | 97 |
| 103) sec-Butylbenzene | 11.705 | 105 | 798974 | 48.78 | ppb | 99 |
| 104) p-Isopropyltoluene | 11.827 | 119 | 671384 | 48.71 | ppb | 98 |

Data Path : I:\ACQUDATA\msvoa12\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

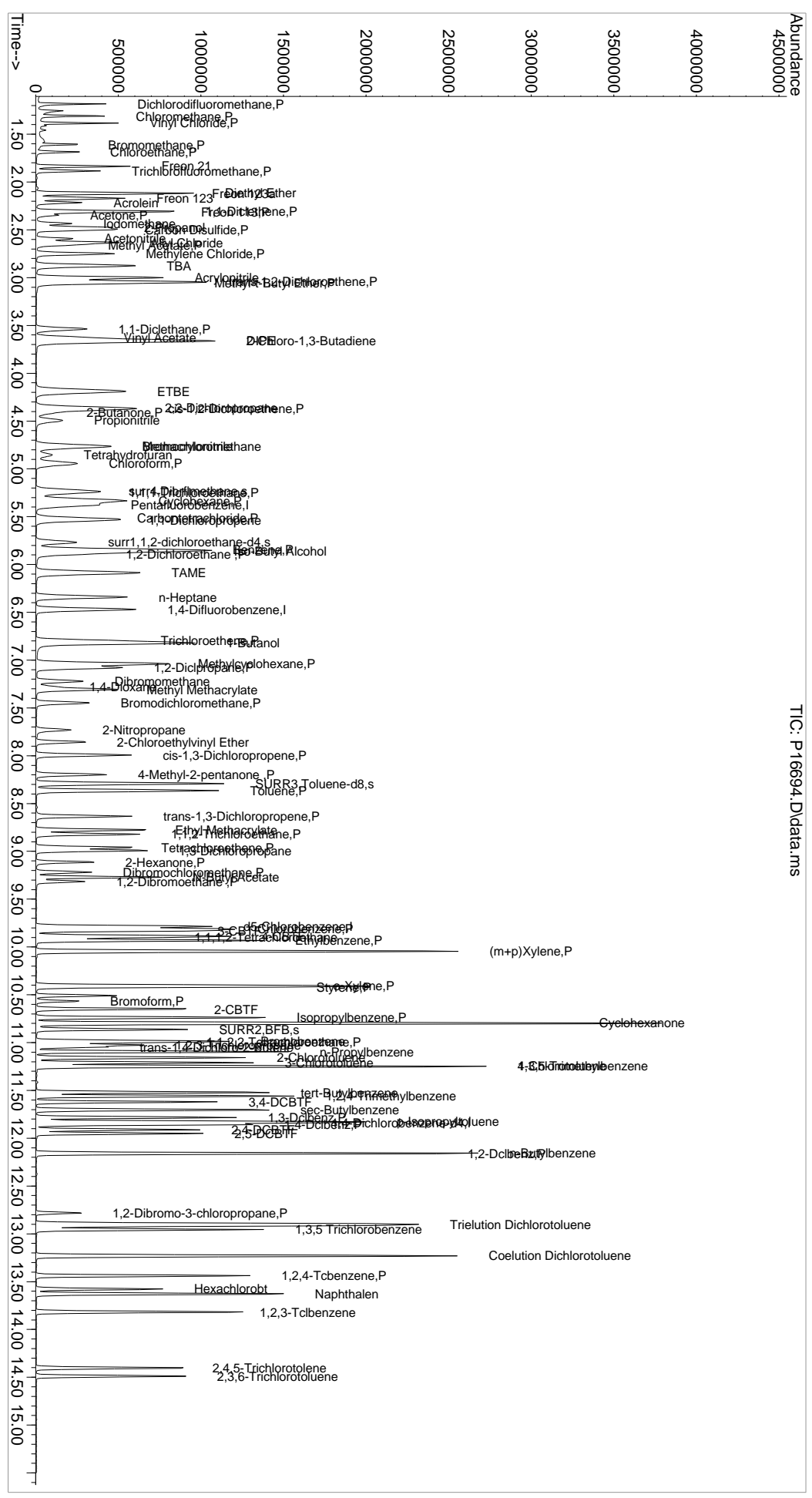
Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,3-Dclbenz | 11.784 | 146 | 365587 | 50.94 | ppb | 98 |
| 106) 1,4-Dclbenz | 11.858 | 146 | 380297 | 50.49 | ppb | 96 |
| 107) 2,4-DCBTF | 11.912 | 214 | 186326 | 54.15 | ppb | 97 |
| 108) 2,5-DCBTF | 11.949 | 214 | 210976 | 57.33 | ppb | 93 |
| 109) n-Butylbenzene | 12.156 | 91 | 656463 | 51.06 | ppb | 100 |
| 110) 1,2-Dclbenz | 12.162 | 146 | 364023 | 50.82 | ppb | 98 |
| 111) 1,2-Dibromo-3-chloropr... | 12.784 | 157 | 55088 | 45.75 | ppb | 90 |
| 112) Trielution Dichlorotol... | 12.900 | 125 | 1136342 | 161.28 | ppb | 98 |
| 113) 1,3,5 Trichlorobenzene | 12.955 | 180 | 312818 | 56.09 | ppb | 97 |
| 114) Coelution Dichlorotoluene | 13.229 | 125 | 848065 | 113.49 | ppb | 100 |
| 115) 1,2,4-Tcbenzene | 13.437 | 180 | 301288 | 57.87 | ppb | 97 |
| 116) Hexachlorobt | 13.577 | 225 | 113643 | 47.02 | ppb | 96 |
| 117) Naphthalen | 13.626 | 128 | 885419 | 61.63 | ppb | 99 |
| 118) 1,2,3-Tclbenzene | 13.821 | 180 | 300018 | 59.32 | ppb | 98 |
| 119) 2,4,5-Trichlorotolene | 14.406 | 159 | 188060 | 56.36 | ppb | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.491 | 159 | 176322 | 56.66 | ppb | 98 |

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

Data Path : I:\ACQDATA\msvoa12\Data\032718\
 Data File : P16694.D
 Acq On : 27 Mar 2018 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Sample Vial : 1 Sample Multiplier: 1
 Inst : MSVOA-12

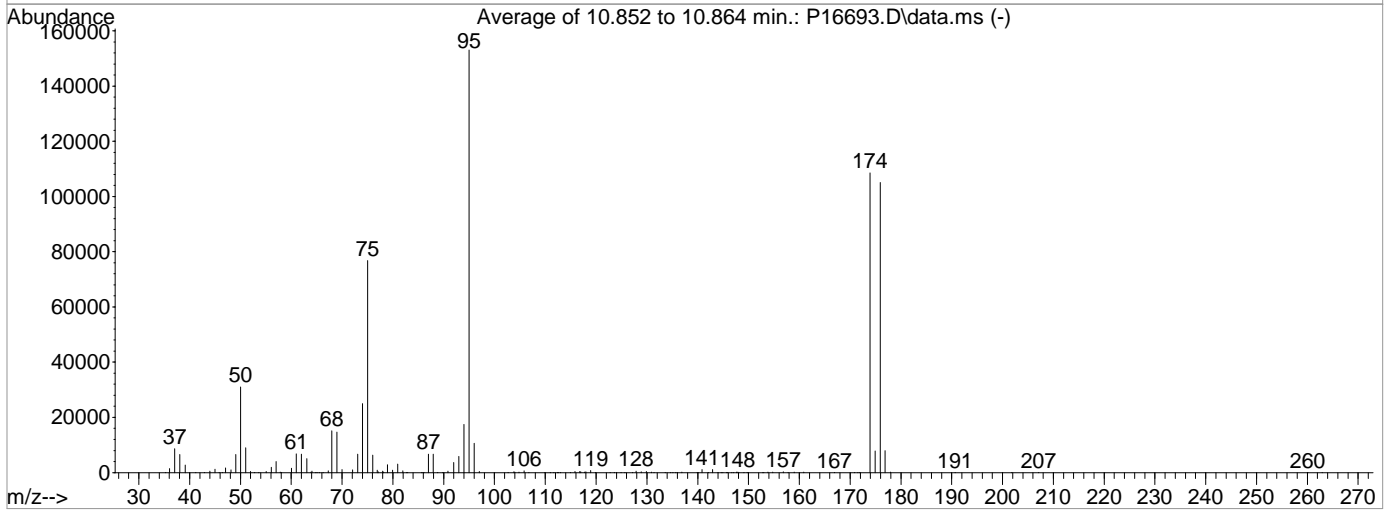
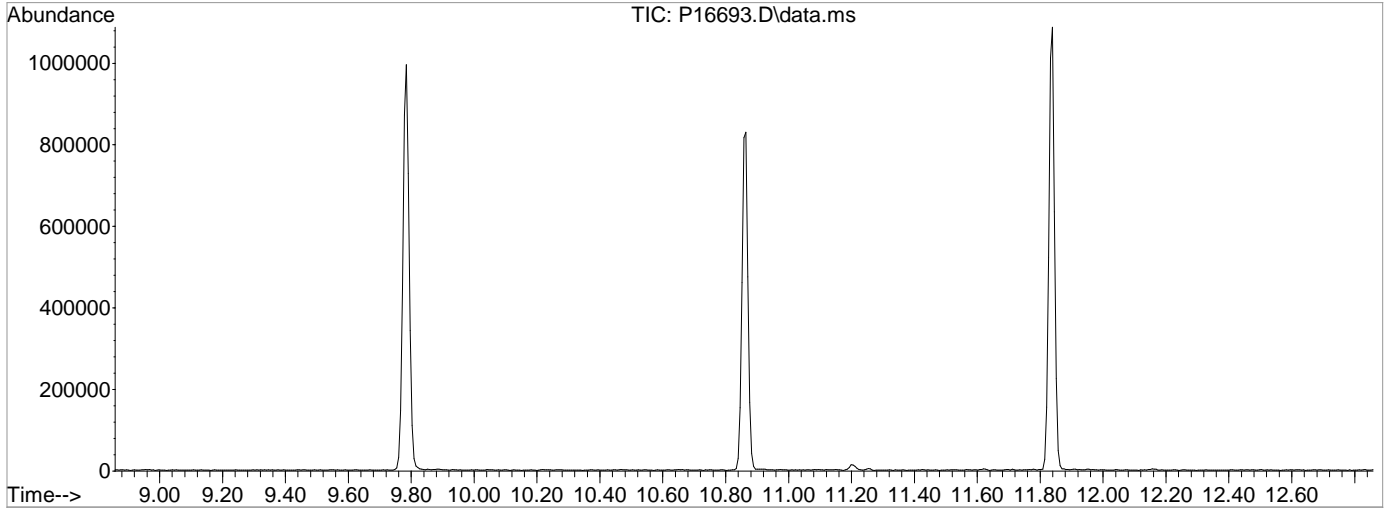
Quant Time: Mar 27 10:47:38 2018
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Tue Jan 02 13:02:22 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\032718\
Data File : P16693.D
Acq On : 27 Mar 2018 10:03 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1
Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Jan 02 13:02:22 2018



AutoFind: Scans 1600, 1601, 1602; Background Corrected with Scan 1594

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 20.2 | 30995 | PASS |
| 75 | 95 | 30 | 60 | 50.1 | 76771 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 153101 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 10555 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 70.9 | 108565 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 7848 | PASS |
| 176 | 174 | 95 | 101 | 96.8 | 105096 | PASS |
| 177 | 176 | 5 | 9 | 7.5 | 7909 | PASS |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|-------------|---|------------------|
| 01 | RC1800001-01 | 0.5ppb | I:\ACQUADATA\msvoa12\Data\122917\P15150.D | 12/29/2017 17:22 |
| 02 | RC1800001-02 | 1.0ppb | I:\ACQUADATA\msvoa12\Data\122917\P15151.D | 12/29/2017 17:44 |
| 03 | RC1800001-03 | 2.0ppb | I:\ACQUADATA\msvoa12\Data\122917\P15152.D | 12/29/2017 18:06 |
| 04 | RC1800001-04 | 5.0ppb | I:\ACQUADATA\msvoa12\Data\122917\P15153.D | 12/29/2017 18:28 |
| 05 | RC1800001-05 | 20ppb | I:\ACQUADATA\msvoa12\Data\122917\P15154.D | 12/29/2017 18:49 |
| 06 | RC1800001-06 | 50ppb | I:\ACQUADATA\msvoa12\Data\122917\P15155.D | 12/29/2017 19:11 |
| 07 | RC1800001-07 | 100ppb | I:\ACQUADATA\msvoa12\Data\122917\P15156.D | 12/29/2017 19:32 |
| 08 | RC1800001-08 | 150ppb | I:\ACQUADATA\msvoa12\Data\122917\P15157.D | 12/29/2017 19:54 |
| 09 | RC1800001-09 | 200ppb | I:\ACQUADATA\msvoa12\Data\122917\P15158.D | 12/29/2017 20:16 |

Analyte

1,1,1-Trichloroethane (TCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 1.008 | 02 | 1.000 | 0.8324 | 03 | 2.000 | 0.8305 | 04 | 5.000 | 0.8263 |
| 05 | 20.000 | 0.7547 | 06 | 50.000 | 0.7586 | 07 | 100.000 | 0.8393 | 08 | 150.000 | 0.7559 |
| 09 | 200.000 | 0.7763 | | | | | | | | | |

1,1-Dichloroethane (1,1-DCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 1.023 | 02 | 1.000 | 0.9379 | 03 | 2.000 | 0.9779 | 04 | 5.000 | 0.947 |
| 05 | 20.000 | 0.9354 | 06 | 50.000 | 0.9464 | 07 | 100.000 | 1.023 | 08 | 150.000 | 0.9294 |
| 09 | 200.000 | 0.9449 | | | | | | | | | |

1,1-Dichloroethene (1,1-DCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.6988 | 02 | 1.000 | 0.5509 | 03 | 2.000 | 0.4889 | 04 | 5.000 | 0.5238 |
| 05 | 20.000 | 0.4587 | 06 | 50.000 | 0.4697 | 07 | 100.000 | 0.5076 | 08 | 150.000 | 0.4531 |
| 09 | 200.000 | 0.4707 | | | | | | | | | |

4-Bromofluorobenzene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|-------|----|---------|--------|
| 04 | 10.000 | 0.5995 | 05 | 20.000 | 0.4536 | 06 | 50.000 | 0.506 | 07 | 100.000 | 0.5177 |
| 08 | 200.000 | 0.4877 | | | | | | | | | |

Dibromofluoromethane

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|--------|----|---------|--------|
| 04 | 10.000 | 0.3386 | 05 | 20.000 | 0.2707 | 06 | 50.000 | 0.2965 | 07 | 100.000 | 0.2994 |
| 08 | 200.000 | 0.2791 | | | | | | | | | |

Tetrachloroethene (PCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.3073 | 02 | 1.000 | 0.2917 | 03 | 2.000 | 0.2929 | 04 | 5.000 | 0.2841 |
| 05 | 20.000 | 0.2475 | 06 | 50.000 | 0.2643 | 07 | 100.000 | 0.2816 | 08 | 150.000 | 0.2552 |
| 09 | 200.000 | 0.2587 | | | | | | | | | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|-------|----|--------|-------|----|--------|------|----|---------|-------|
| 04 | 10.000 | 1.572 | 05 | 20.000 | 1.232 | 06 | 50.000 | 1.33 | 07 | 100.000 | 1.308 |
| 08 | 200.000 | 1.186 | | | | | | | | | |

Trichloroethene (TCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.3925 | 02 | 1.000 | 0.3488 | 03 | 2.000 | 0.309 | 04 | 5.000 | 0.3231 |
| 05 | 20.000 | 0.3163 | 06 | 50.000 | 0.3352 | 07 | 100.000 | 0.3524 | 08 | 150.000 | 0.3143 |
| 09 | 200.000 | 0.3228 | | | | | | | | | |

Vinyl Chloride

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.7871 | 02 | 1.000 | 0.616 | 03 | 2.000 | 0.7275 | 04 | 5.000 | 0.749 |
| 05 | 20.000 | 0.7515 | 06 | 50.000 | 0.7481 | 07 | 100.000 | 0.8085 | 08 | 150.000 | 0.7308 |
| 09 | 200.000 | 0.7463 | | | | | | | | | |

cis-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.6166 | 02 | 1.000 | 0.5455 | 03 | 2.000 | 0.6365 | 04 | 5.000 | 0.638 |
| 05 | 20.000 | 0.5786 | 06 | 50.000 | 0.5775 | 07 | 100.000 | 0.6218 | 08 | 150.000 | 0.5765 |
| 09 | 200.000 | 0.584 | | | | | | | | | |

trans-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 01 | 0.500 | 0.5602 | 02 | 1.000 | 0.5063 | 03 | 2.000 | 0.5366 | 04 | 5.000 | 0.5328 |
| 05 | 20.000 | 0.5048 | 06 | 50.000 | 0.5129 | 07 | 100.000 | 0.551 | 08 | 150.000 | 0.5016 |
| 09 | 200.000 | 0.5153 | | | | | | | | | |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

| Analyte Name | Compound Type | Calibration Evaluation | | | | Calibration Evaluation | |
|------------------------------|---------------|------------------------|-------|-------------|------------------|------------------------|-------------|
| | | Fit Type | Eval | Eval Result | Control Criteria | Average RRF | Minimum RRF |
| 1,1,1-Trichloroethane (TCA) | TRG | Average RF | % RSD | 9.7 | 20 | 0.8203 | 0.100 |
| 1,1-Dichloroethane (1,1-DCA) | TRG | Average RF | % RSD | 3.8 | 20 | 0.9627 | 0.200 |
| 1,1-Dichloroethene (1,1-DCE) | TRG | Average RF | % RSD | 14.9 | 20 | 0.5136 | 0.100 |
| 4-Bromofluorobenzene | SURR | Average RF | % RSD | 10.6 | 20 | 0.5129 | |
| Dibromofluoromethane | SURR | Average RF | % RSD | 8.8 | 20 | 0.2969 | |
| Tetrachloroethene (PCE) | TRG | Average RF | % RSD | 7.3 | 20 | 0.2759 | 0.200 |
| Toluene-d8 | SURR | Average RF | % RSD | 11.3 | 20 | 1.326 | |
| Trichloroethene (TCE) | TRG | Average RF | % RSD | 7.9 | 20 | 0.335 | 0.200 |
| Vinyl Chloride | TRG | Average RF | % RSD | 7.2 | 20 | 0.7405 | 0.100 |
| cis-1,2-Dichloroethene | TRG | Average RF | % RSD | 5.4 | 20 | 0.5972 | 0.100 |
| trans-1,2-Dichloroethene | TRG | Average RF | % RSD | 4.1 | 20 | 0.5246 | 0.100 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton

Service Request: R1802551
Calibration Date: 12/29/2017

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800001
Instrument ID: R-MS-12

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|-------------|---|------------------|
| 11 | RC1800001-11 | ICV/LCS | I:\ACQUADATA\msvoa12\Data\010318\P15169.D | 01/03/2018 11:34 |
| 10 | RC1800001-10 | ICV 50ppb | I:\ACQUADATA\msvoa12\Data\122917\P15162.D | 12/29/2017 21:43 |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|-----------|--------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 48.3 | 8.203E-1 | 7.924E-1 | -3.403 | ±30 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 49.5 | 9.627E-1 | 9.532E-1 | -0.989 | ±30 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 45.0 | 5.136E-1 | 4.624E-1 | -9.964 | ±30 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 47.6 | 2.759E-1 | 2.628E-1 | -4.770 | ±30 | Average RF |
| Trichloroethene (TCE) | 50.0 | 50.5 | 3.35E-1 | 3.381E-1 | 0.937 | ±30 | Average RF |
| Vinyl Chloride | 50.0 | 46.8 | 7.405E-1 | 6.925E-1 | -6.488 | ±30 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 48.0 | 5.972E-1 | 5.73E-1 | -4.053 | ±30 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 47.9 | 5.246E-1 | 5.03E-1 | -4.128 | ±30 | Average RF |
| 4-Bromofluorobenzene | 50.0 | 48.2 | 5.129E-1 | 4.943E-1 | -3.624 | ±30 | Average RF |
| Dibromofluoromethane | 50.0 | 49.6 | 2.969E-1 | 2.947E-1 | -0.725 | ±30 | Average RF |
| Toluene-d8 | 50.0 | 49.1 | 1.326E0 | 1.302E0 | -1.787 | ±30 | Average RF |

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request: R1802551
Date Analyzed: 03/27/18 10:32

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved**

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\032718\P16694.D\
Signal ID: 1

Calibration Date: 12/29/2017
Calibration ID: RC1800001
Analysis Lot: 585036
Units: ppb

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|-------|---------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 43.0 | 0.8203 | 0.7055 | -14.0 | NA | ±20 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 54.4 | 0.9627 | 1.0471 | 8.8 | NA | ±20 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 46.8 | 0.5136 | 0.4806 | -6.4 | NA | ±20 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 47.5 | 0.2759 | 0.2621 | -5.0 | NA | ±20 | Average RF |
| Trichloroethene (TCE) | 50.0 | 46.5 | 0.335 | 0.3113 | -7.1 | NA | ±20 | Average RF |
| Vinyl Chloride | 50.0 | 51.1 | 0.7405 | 0.7573 | 2.3 | NA | ±20 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 51.4 | 0.5972 | 0.6142 | 2.9 | NA | ±20 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 49.8 | 0.5246 | 0.5226 | -0.4 | NA | ±20 | Average RF |
| 4-Bromofluorobenzene | 50.0 | 46.5 | 0.5129 | 0.4774 | -6.9 | NA | ±20 | Average RF |
| Dibromofluoromethane | 50.0 | 46.9 | 0.2969 | 0.2784 | -6.2 | NA | ±20 | Average RF |
| Toluene-d8 | 50.0 | 49.4 | 1.3256 | 1.3097 | -1.2 | NA | ±20 | Average RF |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:585036
Instrument ID:R-MS-12

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|-------------------------------------|--------------|---------------|---------------|---|
| I:\ACQUADATA\msvoa12\Data\032718\P16693.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 10:03:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16694.D\ | Continuing Calibration Verification | RQ1802745-02 | 3/27/2018 | 10:32:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16696.D\ | Lab Control Sample | RQ1802745-03 | 3/27/2018 | 11:30:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16698.D\ | Method Blank | RQ1802745-04 | 3/27/2018 | 12:22:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16699.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 12:54:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16700.D\ | MW-17 | R1802551-003 | 3/27/2018 | 13:15:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16701.D\ | MW-8 | R1802551-004 | 3/27/2018 | 13:37:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16702.D\ | MW-16 | R1802551-005 | 3/27/2018 | 13:59:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16703.D\ | MW-9 | R1802551-006 | 3/27/2018 | 14:21:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16704.D\ | DUP-032218 | R1802551-009 | 3/27/2018 | 14:43:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16705.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 15:05:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16706.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 15:27:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16708.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 16:10:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16709.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 16:32:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16710.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 16:54:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16711.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 17:16:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16712.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 17:38:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16713.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 18:00:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16714.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 18:21:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16715.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 18:43:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16716.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 19:05:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16717.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 19:27:00 | |
| I:\ACQUADATA\msvoa12\Data\032718\P16718.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 19:49:00 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton/5101.0003

Service Request:R1802551

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:585036
Instrument ID:R-MS-12

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|--------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUDATA\msvoa12\Data\032718 \P16719.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 20:11:00 | |
| I:\ACQUDATA\msvoa12\Data\032718 \P16720.D\ | ZZZZZZZ | ZZZZZZZ | 3/27/2018 | 20:33:00 | |

Analysis: 8200 Latent Analyst: V. Bueck pH strips: 206717 Tune Method: W122917
 Date: 3/27/18 Balance ID: N/A ResCl strips: 0/A Run Method: ↓
 Instr: 12 50 mL Class A used for dilution FV Syringes: 177916 LIMS Run#: 585036

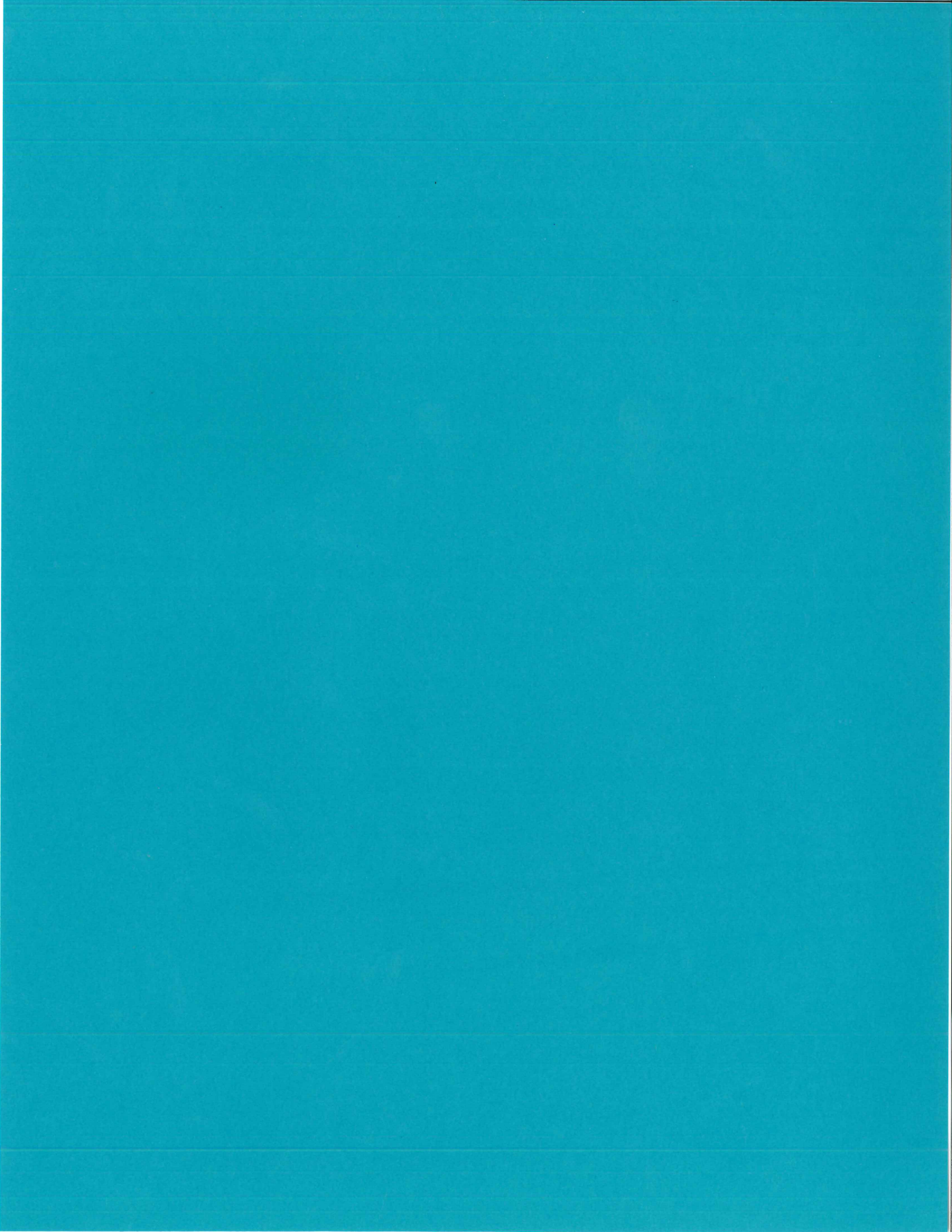
| Pos. | Sample | Diln. | Diln. Prep./ | RL | Tier | Vial | pH | File# | OK? | Comments |
|------|--------------|-------|------------------------|------|------|------|------|--------|-----|----------------|
| 1 | BUL | | | | | | | P16691 | | ↑ EMV |
| 2 | ↓ | | | | | | | P16692 | | |
| 3 | NVE | | P1502745-01 | | | | | P16693 | Y | (cont'd) 10:03 |
| 1 | CCV | | | | | | | P16694 | Y | |
| 1 | LCS | | | | | | | P16695 | Y | NP - FT-SWIFT |
| 1 | LCS | | | | | | | P16696 | Y | |
| 1 | VBUL | | | | | | | P16697 | Y | not c/o |
| 2 | ↓ | | | | | | | P16698 | Y | |
| 1 | P1502550-002 | 1.0 | | 6646 | 4 | 2 | (22) | P16699 | Y | |
| 2 | P1502551-003 | 1.0 | | 7979 | 1 | 8 | | P16700 | Y | |
| 3 | | 1.0 | | | 1 | 8 | | P16701 | Y | |
| 4 | | 1.0 | | | 1 | 8 | | P16702 | Y | |
| 5 | | 1.0 | | | 1 | 8 | | P16703 | Y | |
| 6 | | 1.0 | | | 1 | 8 | | P16704 | Y | |
| 7 | ↓ | 1.0 | | 6646 | 1 | 6 | (22) | P16705 | Y | |
| 8 | BUL (V) 021 | 1.0 | 5/20mls P1502550 | 7979 | 1 | 6 | | P16706 | Y | |
| 9 | BUL | | | | | | | P16707 | | |
| 10 | P1502551-001 | 1.0 | | 6646 | 4 | 1 | (22) | P16708 | Y | |
| 11 | ↓ | 1.0 | | | 1 | 22 | | P16709 | Y | |
| 12 | ↓ | 1.0 | | | 1 | 22 | | P16710 | Y | |
| 13 | P1502550-024 | 1.0 | | | 1 | 22 | | P16711 | Y | |
| 14 | | 1.0 | | | 1 | 22 | | P16712 | Y | |
| 15 | | 1.0 | | | 1 | 22 | | P16713 | Y | |
| 16 | | 1.0 | | | 1 | 22 | | P16714 | Y | |
| 17 | | 1.0 | | | 1 | 22 | | P16715 | Y | |
| 18 | | 1.0 | | | 1 | 22 | | P16716 | Y | |
| 19 | | 1.0 | | | 1 | 22 | | P16717 | Y | |
| 20 | | 1.0 | | | 1 | 22 | | P16718 | Y | |
| 21 | MS | 1.0 | P1502745-05 (2551) (V) | | 1 | 22 | | P16719 | Y | |
| 22 | MS | 1.0 | ↓ | | 1 | 22 | | P16720 | Y | |
| 23 | BUL | | | | | | | P16721 | | |

All samples = 5 ml + 5 ul combined IS/Surr. 5 ml purged

500 Primary CC+ : 188712
 Primary FT+ : 188685
 Primary T6 : 188593
 Primary H2 : 188582

200 Secondary FT+ : 188211 - 5ul
 Secondary CC+ : 188751
 Secondary H2 : 188309
 Secondary T6 : 188809

Surrogate SD : 188052
 Internal Std SD : 188051
 Reagents: _____
 Runlog-MSV0A4 1/17/17





October 03, 2018

Service Request No:R1809120

Ms. Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

Laboratory Results for: Dover - Binghamton

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory September 21, 2018
For your reference, these analyses have been assigned our service request number **R1809120**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Verina Consulting Group, LLC
Project: Dover - Binghamton
Sample Matrix: Water

Service Request: R1809120
Date Received: 09/21/2018

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 09/21/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by _____

Date 10/03/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10 **Lab ID: R1809120-002**

| Analyte | Results | Flag | MDL | MRL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 1.3 | | 0.25 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 0.79 | J | 0.20 | 1.0 | ug/L | 8260C |
| Tetrachloroethene (PCE) | 0.87 | J | 0.28 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 10 | | 0.20 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 2.6 | | 0.26 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-17 **Lab ID: R1809120-005**

| Analyte | Results | Flag | MDL | MRL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 1.5 | | 0.25 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 7.1 | | 0.20 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-16 **Lab ID: R1809120-006**

| Analyte | Results | Flag | MDL | MRL | Units | Method |
|-------------------------|---------|------|------|-----|-------|--------|
| Tetrachloroethene (PCE) | 160 | | 0.28 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 1.6 | | 0.20 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 1.5 | | 0.26 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-9 **Lab ID: R1809120-008**

| Analyte | Results | Flag | MDL | MRL | Units | Method |
|-----------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 0.42 | J | 0.25 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 17 | | 0.20 | 1.0 | ug/L | 8260C |

CLIENT ID: MW-8 **Lab ID: R1809120-009**

| Analyte | Results | Flag | MDL | MRL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 0.62 | J | 0.25 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 2.1 | | 0.20 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 8.7 | | 0.20 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 11 | | 0.26 | 1.0 | ug/L | 8260C |

CLIENT ID: DUP-092018 **Lab ID: R1809120-012**

| Analyte | Results | Flag | MDL | MRL | Units | Method |
|------------------------------|---------|------|------|-----|-------|--------|
| 1,1,1-Trichloroethane (TCA) | 0.51 | J | 0.25 | 1.0 | ug/L | 8260C |
| 1,1-Dichloroethane (1,1-DCA) | 2.0 | | 0.20 | 1.0 | ug/L | 8260C |
| Trichloroethene (TCE) | 9.7 | | 0.20 | 1.0 | ug/L | 8260C |
| cis-1,2-Dichloroethene | 15 | | 0.26 | 1.0 | ug/L | 8260C |



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

SAMPLE CROSS-REFERENCE

| <u>SAMPLE #</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-----------------|-------------------------|-------------|-------------|
| R1809120-001 | Trip Blank - 092018 | 9/20/2018 | |
| R1809120-002 | MW-10 | 9/20/2018 | 1115 |
| R1809120-003 | MW-13 | 9/20/2018 | 1115 |
| R1809120-004 | DMW-3 | 9/20/2018 | 1120 |
| R1809120-005 | MW-17 | 9/20/2018 | 1214 |
| R1809120-006 | MW-16 | 9/20/2018 | 1223 |
| R1809120-007 | TMP-A | 9/20/2018 | 1245 |
| R1809120-008 | MW-9 | 9/20/2018 | 1518 |
| R1809120-009 | MW-8 | 9/20/2018 | 1530 |
| R1809120-010 | MW-11 | 9/20/2018 | 1535 |
| R1809120-011 | FB-092018 | 9/20/2018 | 1630 |
| R1809120-012 | DUP-092018 | 9/20/2018 | |



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 53417

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

| Project Name Dover - Binghamton | | Project Number 5101.003 | | ANALYSIS REQUESTED (Include Method Number and Container Preservative) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|--|------------------------------|---|----------------------|--|--|-----|-----|-------------|---------------|---------|---------|-----------|--|------------------|-----------------------------------|----------------------|--------------|--------|--------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|------------------------------|-----------------------------------|----------------------------|----------------------|---|--|-----|-----|-------------|---------------|---------|---------|-----------|--|--|--|
| Project Manager Sarah MacCorte | | Report CC | | PRESERVATIVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company/Address 1011 US Highway, Suite 302 Bridgewater, NJ 08807-2550 | | Phone # 908 864 4400 | | Email smaccorte@vcg-llc.com | | <table border="1" style="width:100%; text-align: center;"> <tr> <th rowspan="2">NUMBER OF CONTAINERS</th> <th colspan="12">PRESERVATIVE</th> </tr> <tr> <td>GC/MS VOA's • 8260 • 824 • CLP</td> <td>GC/MS SVOA's • 8270 • 825</td> <td>GC VOA's • 8021 • 801/802</td> <td>PESTICIDES • 8081 • 808</td> <td>PCBs • 8082 • 808</td> <td>METALS, TOTAL (List in comments below)</td> <td>METALS, DISCRETE (List in comments below)</td> <td>PCE</td> <td>TCE</td> <td>CIS-1,2-DCE</td> <td>TRANS-1,2-DCE</td> <td>1,1-DCE</td> <td>1,1-DCA</td> <td>1,1,1-TCA</td> </tr> </table> | | | | | | | | | | | | NUMBER OF CONTAINERS | PRESERVATIVE | | | | | | | | | | | | GC/MS VOA's • 8260 • 824 • CLP | GC/MS SVOA's • 8270 • 825 | GC VOA's • 8021 • 801/802 | PESTICIDES • 8081 • 808 | PCBs • 8082 • 808 | METALS, TOTAL (List in comments below) | METALS, DISCRETE (List in comments below) | PCE | TCE | CIS-1,2-DCE | TRANS-1,2-DCE | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | | | |
| NUMBER OF CONTAINERS | PRESERVATIVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GC/MS VOA's • 8260 • 824 • CLP | GC/MS SVOA's • 8270 • 825 | GC VOA's • 8021 • 801/802 | PESTICIDES • 8081 • 808 | PCBs • 8082 • 808 | METALS, TOTAL (List in comments below) | METALS, DISCRETE (List in comments below) | PCE | TCE | CIS-1,2-DCE | TRANS-1,2-DCE | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler's Signature | | Sampler's Printed Name Rita De Almeida | | <table border="1" style="width:100%; text-align: center;"> <tr> <th>CLIENT SAMPLE ID</th> <th>FOR OFFICE USE ONLY LAB ID</th> <th colspan="2">SAMPLING</th> <th>MATRIX</th> <th colspan="12">ANALYSIS REQUESTED</th> <th>REMARKS/ ALTERNATE DESCRIPTION</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th colspan="12"></th> </tr> </table> | | | | | | | | | | | | CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | SAMPLING | | MATRIX | ANALYSIS REQUESTED | | | | | | | | | | | | REMARKS/ ALTERNATE DESCRIPTION | DATE | TIME | | | | | | | | | | | | |
| CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | SAMPLING | | MATRIX | ANALYSIS REQUESTED | | | | | | | | | | | | REMARKS/ ALTERNATE DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trip Blank - 092018 | | 09/20/18 | | Blank | | | | | | | | | | | | | | HCl preservative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-10 | | | | 11:15 GW | | | | | | | | | | | | | | HCl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-13 | | | | 11:15 GW | | | | | | | | | | | | | | HCl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNW-3 | | | | 11:20 GW | | | | | | | | | | | | | | HCl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-17, MS, MSD | | | | 12:14 GW | | | | | | | | | | | | | | NaHSO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-16 | | | | 12:23 GW | | | | | | | | | | | | | | NaHSO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TMP-A | | | | 12:45 GW | | | | | | | | | | | | | | HCl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-9 | | | | 15:15 GW | | | | | | | | | | | | | | NaHSO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-8 | | | | 15:30 GW | | | | | | | | | | | | | | NaHSO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-11 | | | | 15:35 GW | | | | | | | | | | | | | | NaHSO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FB-092018 | | | | 16:30 Blank | | | | | | | | | | | | | | HCl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--|--|---|--|
| SPECIAL INSTRUCTIONS/COMMENTS Metals See QAPP <input type="checkbox"/> | TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day <input type="checkbox"/> Standard (10 business days-No Surcharge) | REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data | INVOICE INFORMATION PO # 5101.003 BILL TO: Verina Consulting Group |
| | REQUESTED REPORT DATE _____ | Edata <input type="checkbox"/> Yes <input type="checkbox"/> No | |

| | | | | | | | | | |
|------------------------------------|--|-------------------------------------|--|---------------------------------|--|-----------------|--|--------------|--|
| STATE WHERE SAMPLES WERE COLLECTED | | RELINQUISHED BY | | RECEIVED BY | | RELINQUISHED BY | | RECEIVED BY | |
| | | Signature | | Signature | | Signature | | Signature | |
| | | Printed Name Rita De Almeida | | Printed Name Greg DeLuca | | Printed Name | | Printed Name | |
| | | Firm Verina Consulting | | Firm ALS | | Firm | | Firm | |
| | | Date/Time 09/20/18 1708 | | Date/Time 9/21/18 0950 | | Date/Time | | Date/Time | |

R1809120 5
 Verina Consulting Group, LLC
 Dover - Binghamton

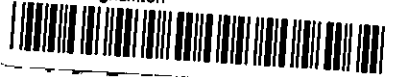


Cooler Receipt and Preservation Check Form

R1809120

5

Verina Consulting Group, LLC
Dover - Binghamton



Project/Client Verina Folder Number _____

Cooler received on 9/21/18 by: [Signature] COURIER: ALS UPS FEDEX VELOCITY CLIENT

| | | |
|---|--|--|
| 1 | Were Custody seals on outside of cooler? | Y <input checked="" type="radio"/> N <input type="radio"/> |
| 2 | Custody papers properly completed (ink, signed)? | <input checked="" type="radio"/> Y <input type="radio"/> N |
| 3 | Did all bottles arrive in good condition (unbroken)? | <input checked="" type="radio"/> Y <input type="radio"/> N |
| 4 | Circle: <u>Wet Ice</u> Dry Ice Gel packs present? | Y <input type="radio"/> N <input type="radio"/> |

| | | |
|----|--|---|
| 5a | Perchlorate samples have required headspace? | Y <input type="radio"/> N <input checked="" type="radio"/> NA |
| 5b | Did <u>VOA</u> vials, Alk, or Sulfide have sig* bubbles? | <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA |
| 6 | Where did the bottles originate? | <u>ALS/ROO</u> CLIENT |
| 7 | Soil VOA received as: Bulk Encore 5035set | <input checked="" type="radio"/> NA |

8. Temperature Readings Date: 9/21/18 Time: 0957 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

| | | | | | | | | | |
|-------------------------------|--|---|---|---|---|---|---|---|---|
| Observed Temp (°C) | <u>2.9</u> | | | | | | | | |
| Correction Factor (°C) | <u>+0.4</u> | | | | | | | | |
| Corrected Temp (°C) | <u>3.3</u> | | | | | | | | |
| Temp from: Type of bottle | <u>Cool tube</u> | | | | | | | | |
| Within 0-6°C? | <input checked="" type="radio"/> Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N | Y <input type="radio"/> N |
| If <0°C, were samples frozen? | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> | Y <input type="radio"/> N <input type="radio"/> |

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by [Signature] on 9/21/18 at 1000
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 9/21/18 Time: 1605 by: [Signature]

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

| pH | Lot of test paper | Reagent | Preserved? | | Lot Received | Exp | Sample ID Adjusted | Vol. Added | Lot Added | Final pH |
|-----------------------|-------------------|---|------------|----|--|-------------|--------------------|------------|-----------|----------|
| | | | Yes | No | | | | | | |
| ≥12 | | NaOH | | | | | | | | |
| ≤2 | | HNO ₃ | | | | | | | | |
| ≤2 | | H ₂ SO ₄ | | | | | | | | |
| <4 | | NaHSO ₄ | | | | | | | | |
| 5-9 | | For 608pest | | | No=Notify for 3day | | | | | |
| Residual Chlorine (-) | | For CN, Phenol, 625, 608pest, 522 | | | If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). | | | | | |
| | | Na ₂ S ₂ O ₃ | | | | | | | | |
| | | ZnAcetate | - | - | | | | | | |
| | | HCl | ** | ** | <u>411 7090</u> | <u>0/19</u> | | | | |

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 8-039-001, 8-039-004

Explain all Discrepancies/ Other Comments:

discrepancies: all.

| | |
|-------|--------|
| CLRES | BULK |
| DO | FLDT |
| HPROD | HGFB |
| HTR | LL3541 |
| PH | SUB |
| SO3 | MARRS |
| ALS | REV |

Labels secondary reviewed by: [Signature]
PC Secondary Review: [Signature] 9/24/18 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| R1809120-001.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1844 | R-001-S11 / DLIPANI | |
| R1809120-001.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-001.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-002.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1844 | R-001-S11 / DLIPANI | |
| R1809120-002.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-002.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-003.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1844 | R-001-S11 / DLIPANI | |
| R1809120-003.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-003.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |

ALS Group USA, Corp.
 dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-004.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1844 | R-001-S11 / DLIPANI | |
| R1809120-004.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-004.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-005.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/24/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/24/2018 | 1911 | R-001-S10 / DLIPANI | |
| R1809120-005.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-005.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-005.04 | | 9/21/2018 | 1612 | SMO / GLAFORCE | |
| R1809120-005.05 | | 9/21/2018 | 1612 | SMO / GLAFORCE | |
| R1809120-005.06 | | 9/21/2018 | 1612 | SMO / GLAFORCE | |
| R1809120-005.07 | | 9/21/2018 | 1612 | SMO / GLAFORCE | |

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| R1809120-005.08 | | 9/21/2018 | 1612 | SMO / GLAFORCE | |
| R1809120-005.09 | | 9/21/2018 | 1612 | SMO / GLAFORCE | |
| R1809120-006.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/24/2018 | 1056 | In Lab / DLIPANI | |
| | | 9/24/2018 | 1909 | R-001-S10 / DLIPANI | |
| R1809120-006.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-006.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-007.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1844 | R-001-S11 / DLIPANI | |
| R1809120-007.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-007.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-008.01 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |

ALS Group USA, Corp.
 dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/24/2018 | 1056 | In Lab / DLIPANI | |
| | | 9/24/2018 | 1909 | R-001-S10 / DLIPANI | |
| R1809120-008.02 | | | | | |
| | 8260C | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/25/2018 | 1202 | In Lab / DLIPANI | |
| | | 9/25/2018 | 1801 | R-001-S10 / DLIPANI | |
| R1809120-008.03 | | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-009.01 | | | | | |
| | 8260C | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/24/2018 | 1056 | In Lab / DLIPANI | |
| | | 9/24/2018 | 1909 | R-001-S10 / DLIPANI | |
| R1809120-009.02 | | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-009.03 | | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-010.01 | | | | | |
| | 8260C | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/24/2018 | 1056 | In Lab / DLIPANI | |
| | | 9/24/2018 | 1909 | R-001-S10 / DLIPANI | |
| R1809120-010.02 | | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-010.03 | | | | | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|------------------------|----------------|-------------|-------------|-------------------------------|--------------------|
| R1809120-011.01 | 8260C | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/28/2018 | 1055 | In Lab / DLIPANI | |
| | | 9/28/2018 | 1844 | R-001-S11 / DLIPANI | |
| R1809120-011.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-011.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-012.01 | 8260C | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| | | 9/24/2018 | 1056 | In Lab / DLIPANI | |
| | | 9/24/2018 | 1909 | R-001-S10 / DLIPANI | |
| R1809120-012.02 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |
| R1809120-012.03 | | 9/21/2018 | 1609 | SMO / GLAFORCE | |
| | | 9/21/2018 | 1609 | R-001 / GLAFORCE | |



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

| | |
|---|---|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>100% Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|---|



Rochester Lab ID # for State Certifications¹

| | | |
|-------------------------|-------------------------|-------------------------|
| Connecticut ID # PH0556 | Maine ID #NY0032 | Pennsylvania ID# 68-786 |
| Delaware Approved | New Hampshire ID # 2941 | Rhode Island ID # 158 |
| DoD ELAP #65817 | New York ID # 10145 | Virginia #460167 |
| Florida ID # E87674 | North Carolina #676 | |

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

| | |
|------------|--|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

Sample Name: Trip Blank - 092018
Lab Code: R1809120-001
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: MW-10
Lab Code: R1809120-002
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: MW-13
Lab Code: R1809120-003
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: DMW-3
Lab Code: R1809120-004
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: MW-17
Lab Code: R1809120-005
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

Sample Name: MW-16
Lab Code: R1809120-006
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: TMP-A
Lab Code: R1809120-007
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: MW-9
Lab Code: R1809120-008
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: MW-8
Lab Code: R1809120-009
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: MW-11
Lab Code: R1809120-010
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120

Sample Name: FB-092018
Lab Code: R1809120-011
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI

Sample Name: DUP-092018
Lab Code: R1809120-012
Sample Matrix: Water

Date Collected: 09/20/18
Date Received: 09/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

| Analytical Method | Preparation Method |
|-------------------------------|--------------------|
| 200.7 | 200.2 |
| 200.8 | 200.2 |
| 6010C | 3005A/3010A |
| 6020A | ILM05.3 |
| 9014 Cyanide Reactivity | SW846 Ch7, 7.3.4.2 |
| 9034 Sulfide Reactivity | SW846 Ch7, 7.3.4.2 |
| 9034 Sulfide Acid Soluble | 9030B |
| 9056A Bomb (Halogens) | 5050A |
| 9066 Manual Distillation | 9065 |
| SM 4500-CN-E Residual Cyanide | SM 4500-CN-G |
| SM 4500-CN-E WAD Cyanide | SM 4500-CN-I |

Solid/Soil/Non-Aqueous Matrix

| Analytical Method | Preparation Method |
|--|--------------------|
| 6010C | 3050B |
| 6020A | 3050B |
| 6010C TCLP (1311) extract | 3005A/3010A |
| 6010 SPLP (1312) extract | 3005A/3010A |
| 7196A | 3060A |
| 7199 | 3060A |
| 9056A Halogens/Halides | 5050 |
| 300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions | DI extraction |

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18
Date Received: 09/21/18 09:50

Sample Name: Trip Blank - 092018
Lab Code: R1809120-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 11:34 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:34 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:34 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:34 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:34 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 11:34 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:34 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:34 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/28/18 11:34 | |
| Dibromofluoromethane | 96 | 89 - 119 | 09/28/18 11:34 | |
| Toluene-d8 | 94 | 87 - 121 | 09/28/18 11:34 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 11:15
Date Received: 09/21/18 09:50

Sample Name: MW-10
Lab Code: R1809120-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.3 | 1.0 | 0.25 | 1 | 09/28/18 12:18 | |
| 1,1-Dichloroethane (1,1-DCA) | 0.79 J | 1.0 | 0.20 | 1 | 09/28/18 12:18 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 12:18 | |
| Tetrachloroethene (PCE) | 0.87 J | 1.0 | 0.28 | 1 | 09/28/18 12:18 | |
| Trichloroethene (TCE) | 10 | 1.0 | 0.20 | 1 | 09/28/18 12:18 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 12:18 | |
| cis-1,2-Dichloroethene | 2.6 | 1.0 | 0.26 | 1 | 09/28/18 12:18 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 12:18 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 90 | 85 - 122 | 09/28/18 12:18 | |
| Dibromofluoromethane | 97 | 89 - 119 | 09/28/18 12:18 | |
| Toluene-d8 | 95 | 87 - 121 | 09/28/18 12:18 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 11:15
Date Received: 09/21/18 09:50

Sample Name: MW-13
Lab Code: R1809120-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 12:40 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 12:40 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 12:40 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 12:40 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 12:40 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 12:40 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 12:40 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 12:40 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 95 | 85 - 122 | 09/28/18 12:40 | |
| Dibromofluoromethane | 101 | 89 - 119 | 09/28/18 12:40 | |
| Toluene-d8 | 104 | 87 - 121 | 09/28/18 12:40 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 11:20
Date Received: 09/21/18 09:50

Sample Name: DMW-3
Lab Code: R1809120-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 13:01 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:01 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:01 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:01 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:01 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 13:01 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:01 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:01 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 95 | 85 - 122 | 09/28/18 13:01 | |
| Dibromofluoromethane | 100 | 89 - 119 | 09/28/18 13:01 | |
| Toluene-d8 | 102 | 87 - 121 | 09/28/18 13:01 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 12:45
Date Received: 09/21/18 09:50

Sample Name: TMP-A
Lab Code: R1809120-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 13:23 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:23 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:23 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:23 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:23 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 13:23 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:23 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:23 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 97 | 85 - 122 | 09/28/18 13:23 | |
| Dibromofluoromethane | 101 | 89 - 119 | 09/28/18 13:23 | |
| Toluene-d8 | 103 | 87 - 121 | 09/28/18 13:23 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 16:30
Date Received: 09/21/18 09:50

Sample Name: FB-092018
Lab Code: R1809120-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 11:56 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:56 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:56 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:56 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:56 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 11:56 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:56 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:56 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 09/28/18 11:56 | |
| Dibromofluoromethane | 99 | 89 - 119 | 09/28/18 11:56 | |
| Toluene-d8 | 98 | 87 - 121 | 09/28/18 11:56 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 12:14
Date Received: 09/21/18 09:50

Sample Name: MW-17
Lab Code: R1809120-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.5 | 1.0 | 0.25 | 1 | 09/24/18 17:38 | |
| 1,1-Dichloroethane (1,1-DCA) | 7.1 | 1.0 | 0.20 | 1 | 09/24/18 17:38 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 17:38 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 17:38 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 17:38 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 17:38 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 17:38 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 17:38 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 09/24/18 17:38 | |
| Dibromofluoromethane | 97 | 89 - 119 | 09/24/18 17:38 | |
| Toluene-d8 | 99 | 87 - 121 | 09/24/18 17:38 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 12:23
Date Received: 09/21/18 09:50

Sample Name: MW-16
Lab Code: R1809120-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/24/18 18:00 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 18:00 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 18:00 | |
| Tetrachloroethene (PCE) | 160 | 1.0 | 0.28 | 1 | 09/24/18 18:00 | |
| Trichloroethene (TCE) | 1.6 | 1.0 | 0.20 | 1 | 09/24/18 18:00 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 18:00 | |
| cis-1,2-Dichloroethene | 1.5 | 1.0 | 0.26 | 1 | 09/24/18 18:00 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 18:00 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 86 | 85 - 122 | 09/24/18 18:00 | |
| Dibromofluoromethane | 93 | 89 - 119 | 09/24/18 18:00 | |
| Toluene-d8 | 95 | 87 - 121 | 09/24/18 18:00 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 15:18
Date Received: 09/21/18 09:50

Sample Name: MW-9
Lab Code: R1809120-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.42 J | 1.0 | 0.25 | 1 | 09/25/18 12:53 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/18 12:53 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/25/18 12:53 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/25/18 12:53 | |
| Trichloroethene (TCE) | 17 | 1.0 | 0.20 | 1 | 09/25/18 12:53 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/25/18 12:53 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/25/18 12:53 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/25/18 12:53 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/25/18 12:53 | |
| Dibromofluoromethane | 95 | 89 - 119 | 09/25/18 12:53 | |
| Toluene-d8 | 96 | 87 - 121 | 09/25/18 12:53 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 15:30
Date Received: 09/21/18 09:50

Sample Name: MW-8
Lab Code: R1809120-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.62 J | 1.0 | 0.25 | 1 | 09/24/18 18:44 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.1 | 1.0 | 0.20 | 1 | 09/24/18 18:44 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 18:44 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 18:44 | |
| Trichloroethene (TCE) | 8.7 | 1.0 | 0.20 | 1 | 09/24/18 18:44 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 18:44 | |
| cis-1,2-Dichloroethene | 11 | 1.0 | 0.26 | 1 | 09/24/18 18:44 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 18:44 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 09/24/18 18:44 | |
| Dibromofluoromethane | 98 | 89 - 119 | 09/24/18 18:44 | |
| Toluene-d8 | 99 | 87 - 121 | 09/24/18 18:44 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 15:35
Date Received: 09/21/18 09:50

Sample Name: MW-11
Lab Code: R1809120-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/24/18 19:30 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 19:30 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:30 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:30 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 19:30 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 19:30 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 19:30 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 19:30 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 88 | 85 - 122 | 09/24/18 19:30 | |
| Dibromofluoromethane | 92 | 89 - 119 | 09/24/18 19:30 | |
| Toluene-d8 | 97 | 87 - 121 | 09/24/18 19:30 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18
Date Received: 09/21/18 09:50

Sample Name: DUP-092018
Lab Code: R1809120-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.51 J | 1.0 | 0.25 | 1 | 09/24/18 19:08 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.0 | 1.0 | 0.20 | 1 | 09/24/18 19:08 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:08 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:08 | |
| Trichloroethene (TCE) | 9.7 | 1.0 | 0.20 | 1 | 09/24/18 19:08 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 19:08 | |
| cis-1,2-Dichloroethene | 15 | 1.0 | 0.26 | 1 | 09/24/18 19:08 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 19:08 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 96 | 85 - 122 | 09/24/18 19:08 | |
| Dibromofluoromethane | 102 | 89 - 119 | 09/24/18 19:08 | |
| Toluene-d8 | 102 | 87 - 121 | 09/24/18 19:08 | |



QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

| Sample Name | Lab Code | 4-Bromofluorobenzene | Dibromofluoromethane | Toluene-d8 |
|---------------------|--------------|----------------------|----------------------|------------|
| | | 85-122 | 89-119 | 87-121 |
| Trip Blank - 092018 | R1809120-001 | 89 | 96 | 94 |
| MW-10 | R1809120-002 | 90 | 97 | 95 |
| MW-13 | R1809120-003 | 95 | 101 | 104 |
| DMW-3 | R1809120-004 | 95 | 100 | 102 |
| TMP-A | R1809120-007 | 97 | 101 | 103 |
| FB-092018 | R1809120-011 | 92 | 99 | 98 |
| Method Blank | RQ1810434-04 | 89 | 95 | 93 |
| Lab Control Sample | RQ1810434-03 | 92 | 97 | 95 |
| MW-10 MS | RQ1810434-05 | 98 | 98 | 97 |
| MW-10 DMS | RQ1810434-06 | 95 | 99 | 97 |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18
Date Received: 09/21/18
Date Analyzed: 09/28/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-10
Lab Code: R1809120-002
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

| Analyte Name | Matrix Spike RQ1810434-05 | | | | Duplicate Matrix Spike RQ1810434-06 | | | | RPD | RPD Limit |
|------------------------------|------------------------------|--------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Sample Result | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | % Rec Limits | | |
| 1,1,1-Trichloroethane (TCA) | 1.3 | 52.6 | 50.0 | 103 | 52.5 | 50.0 | 102 | 74-127 | <1 | 30 |
| 1,1-Dichloroethane (1,1-DCA) | 0.79 J | 56.0 | 50.0 | 110 | 57.9 | 50.0 | 114 | 74-132 | 3 | 30 |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 51.1 | 50.0 | 102 | 49.6 | 50.0 | 99 | 71-118 | 3 | 30 |
| Tetrachloroethene (PCE) | 0.87 J | 48.6 | 50.0 | 95 | 51.3 | 50.0 | 101 | 72-125 | 6 | 30 |
| Trichloroethene (TCE) | 10 | 56.5 | 50.0 | 93 | 58.7 | 50.0 | 97 | 74-122 | 4 | 30 |
| Vinyl Chloride | 1.0 U | 47.9 | 50.0 | 96 | 49.4 | 50.0 | 99 | 74-159 | 3 | 30 |
| cis-1,2-Dichloroethene | 2.6 | 53.3 | 50.0 | 101 | 54.5 | 50.0 | 104 | 77-127 | 2 | 30 |
| trans-1,2-Dichloroethene | 1.0 U | 52.3 | 50.0 | 105 | 53.3 | 50.0 | 107 | 73-118 | 2 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/28/18 11:05
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1810434-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-10
File ID: I:\ACQUADATA\msvoa10\data\092818\D6244.D\
Analysis Lot: 608727

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|---------------------|-----------------|---|----------------------|
| Lab Control Sample | RQ1810434-03 | I:\ACQUADATA\msvoa10\data\092818\D6242.D\ | 09/28/18 10:13 |
| Trip Blank - 092018 | R1809120-001 | I:\ACQUADATA\msvoa10\data\092818\D6245.D\ | 09/28/18 11:34 |
| FB-092018 | R1809120-011 | I:\ACQUADATA\msvoa10\data\092818\D6246.D\ | 09/28/18 11:56 |
| MW-10 | R1809120-002 | I:\ACQUADATA\msvoa10\data\092818\D6247.D\ | 09/28/18 12:18 |
| MW-13 | R1809120-003 | I:\ACQUADATA\msvoa10\data\092818\D6248.D\ | 09/28/18 12:40 |
| DMW-3 | R1809120-004 | I:\ACQUADATA\msvoa10\data\092818\D6249.D\ | 09/28/18 13:01 |
| TMP-A | R1809120-007 | I:\ACQUADATA\msvoa10\data\092818\D6250.D\ | 09/28/18 13:23 |
| MW-10MS | RQ1810434-05 | I:\ACQUADATA\msvoa10\data\092818\D6266.D\ | 09/28/18 20:18 |
| MW-10DMS | RQ1810434-06 | I:\ACQUADATA\msvoa10\data\092818\D6267.D\ | 09/28/18 20:39 |

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1810434-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 11:05 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:05 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:05 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:05 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:05 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 11:05 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:05 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:05 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/28/18 11:05 | |
| Dibromofluoromethane | 95 | 89 - 119 | 09/28/18 11:05 | |
| Toluene-d8 | 93 | 87 - 121 | 09/28/18 11:05 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/28/18 10:13
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ1810434-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-10
File ID: I:\ACQUADATA\msvoa10\data\092818\D6242.D\
Analysis Lot: 608727

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|---------------------|-----------------|---|----------------------|
| Method Blank | RQ1810434-04 | I:\ACQUADATA\msvoa10\data\092818\D6244.D\ | 09/28/18 11:05 |
| Trip Blank - 092018 | R1809120-001 | I:\ACQUADATA\msvoa10\data\092818\D6245.D\ | 09/28/18 11:34 |
| FB-092018 | R1809120-011 | I:\ACQUADATA\msvoa10\data\092818\D6246.D\ | 09/28/18 11:56 |
| MW-10 | R1809120-002 | I:\ACQUADATA\msvoa10\data\092818\D6247.D\ | 09/28/18 12:18 |
| MW-13 | R1809120-003 | I:\ACQUADATA\msvoa10\data\092818\D6248.D\ | 09/28/18 12:40 |
| DMW-3 | R1809120-004 | I:\ACQUADATA\msvoa10\data\092818\D6249.D\ | 09/28/18 13:01 |
| TMP-A | R1809120-007 | I:\ACQUADATA\msvoa10\data\092818\D6250.D\ | 09/28/18 13:23 |
| MW-10MS | RQ1810434-05 | I:\ACQUADATA\msvoa10\data\092818\D6266.D\ | 09/28/18 20:18 |
| MW-10DMS | RQ1810434-06 | I:\ACQUADATA\msvoa10\data\092818\D6267.D\ | 09/28/18 20:39 |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/28/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1810434-03

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------------------------|---------------|---------------------|--------------|---------------------|
| 1,1,1-Trichloroethane (TCA) | 8260C | 20.0 | 20.0 | 100 | 75-125 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 22.4 | 20.0 | 112 | 80-124 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 20.8 | 20.0 | 104 | 71-118 |
| Tetrachloroethene (PCE) | 8260C | 18.9 | 20.0 | 95 | 72-125 |
| Trichloroethene (TCE) | 8260C | 19.7 | 20.0 | 98 | 74-122 |
| Vinyl Chloride | 8260C | 20.0 | 20.0 | 100 | 74-159 |
| cis-1,2-Dichloroethene | 8260C | 20.4 | 20.0 | 102 | 80-121 |
| trans-1,2-Dichloroethene | 8260C | 21.7 | 20.0 | 108 | 73-118 |

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QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/28/18 08:46

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa10\data\092818\D6240.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 608727

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|---------------|---------------|----------------------|---------------|------------------|
| 50 | 95 | 15 | 40 | 24.87 | 17532 | Pass |
| 75 | 95 | 30 | 60 | 55.43 | 39074 | Pass |
| 95 | 95 | 100 | 100 | 100.00 | 70496 | Pass |
| 96 | 95 | 5 | 9 | 6.75 | 4758 | Pass |
| 173 | 174 | 0 | 2 | 1.11 | 655 | Pass |
| 174 | 95 | 50 | 120 | 83.59 | 58931 | Pass |
| 175 | 174 | 5 | 9 | 8.55 | 5041 | Pass |
| 176 | 174 | 95 | 101 | 95.62 | 56347 | Pass |
| 177 | 176 | 5 | 9 | 6.24 | 3517 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|-------------------------------------|--------------|---|----------------|---|
| Continuing Calibration Verification | RQ1810434-02 | I:\ACQUADATA\msvoa10\data\092818\D6241.D\ | 09/28/18 09:24 | |
| Lab Control Sample | RQ1810434-03 | I:\ACQUADATA\msvoa10\data\092818\D6242.D\ | 09/28/18 10:13 | |
| Method Blank | RQ1810434-04 | I:\ACQUADATA\msvoa10\data\092818\D6244.D\ | 09/28/18 11:05 | |
| Trip Blank - 092018 | R1809120-001 | I:\ACQUADATA\msvoa10\data\092818\D6245.D\ | 09/28/18 11:34 | |
| FB-092018 | R1809120-011 | I:\ACQUADATA\msvoa10\data\092818\D6246.D\ | 09/28/18 11:56 | |
| MW-10 | R1809120-002 | I:\ACQUADATA\msvoa10\data\092818\D6247.D\ | 09/28/18 12:18 | |
| MW-13 | R1809120-003 | I:\ACQUADATA\msvoa10\data\092818\D6248.D\ | 09/28/18 12:40 | |
| DMW-3 | R1809120-004 | I:\ACQUADATA\msvoa10\data\092818\D6249.D\ | 09/28/18 13:01 | |
| TMP-A | R1809120-007 | I:\ACQUADATA\msvoa10\data\092818\D6250.D\ | 09/28/18 13:23 | |
| MW-10 | RQ1810434-05 | I:\ACQUADATA\msvoa10\data\092818\D6266.D\ | 09/28/18 20:18 | |
| MW-10 | RQ1810434-06 | I:\ACQUADATA\msvoa10\data\092818\D6267.D\ | 09/28/18 20:39 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/28/18 09:24

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa10\data\092818\D6241.D\
Instrument ID: R-MS-10
Analysis Method: 8260C

Lab Code:RQ1810434-02
Analysis Lot:608727
Signal ID:1

| | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---------------------------|------------------------|-------|---------------------|------|------------------|-------|
| | Area | RT | Area | RT | Area | RT |
| Result ==> | 161,881 | 11.85 | 328,097 | 6.49 | 291,551 | 9.80 |
| Upper Limit ==> | 323,762 | 12.35 | 656,194 | 6.99 | 583,102 | 10.30 |
| Lower Limit ==> | 80,941 | 11.35 | 164,049 | 5.99 | 145,776 | 9.30 |

Associated Analyses

| | | | | | | | |
|---------------------|--------------|--------|-------|--------|------|--------|------|
| Lab Control Sample | RQ1810434-03 | 146987 | 11.85 | 327087 | 6.49 | 288286 | 9.80 |
| Method Blank | RQ1810434-04 | 132919 | 11.85 | 297924 | 6.49 | 264725 | 9.80 |
| Trip Blank - 092018 | R1809120-001 | 116308 | 11.85 | 266012 | 6.49 | 227275 | 9.80 |
| FB-092018 | R1809120-011 | 131866 | 11.85 | 304410 | 6.49 | 262112 | 9.80 |
| MW-10 | R1809120-002 | 130928 | 11.85 | 300384 | 6.49 | 268036 | 9.80 |
| MW-13 | R1809120-003 | 132150 | 11.85 | 297921 | 6.49 | 263979 | 9.80 |
| DMW-3 | R1809120-004 | 130009 | 11.85 | 292035 | 6.49 | 257763 | 9.80 |
| TMP-A | R1809120-007 | 131180 | 11.85 | 280932 | 6.49 | 248941 | 9.80 |
| MW-10MS | RQ1810434-05 | 159718 | 11.85 | 323940 | 6.49 | 289190 | 9.80 |
| MW-10DMS | RQ1810434-06 | 167459 | 11.85 | 330867 | 6.49 | 295512 | 9.80 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/28/18 09:24

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUADATA\msvoa10\data\092818\D6241.D\
Instrument ID: R-MS-10
Analysis Method: 8260C

Lab Code:RQ1810434-02
Analysis Lot:608727
Signal ID:1

| | Pentafluorobenzene | |
|---------------------------|--------------------|------|
| | Area | RT |
| Result ==> | 210,430 | 5.40 |
| Upper Limit ==> | 420,860 | 5.90 |
| Lower Limit ==> | 105,215 | 4.90 |

Associated Analyses

| Lab Control Sample | RQ1810434-03 | 209448 | 5.39 |
|---------------------|--------------|--------|------|
| Method Blank | RQ1810434-04 | 189784 | 5.39 |
| Trip Blank - 092018 | R1809120-001 | 175507 | 5.40 |
| FB-092018 | R1809120-011 | 192548 | 5.39 |
| MW-10 | R1809120-002 | 190786 | 5.39 |
| MW-13 | R1809120-003 | 190419 | 5.39 |
| DMW-3 | R1809120-004 | 184974 | 5.39 |
| TMP-A | R1809120-007 | 177736 | 5.39 |
| MW-10MS | RQ1810434-05 | 206967 | 5.39 |
| MW-10DMS | RQ1810434-06 | 218885 | 5.39 |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Extraction Method: EPA 5030C

| Sample Name | Lab Code | 4-Bromofluorobenzene | Dibromofluoromethane | Toluene-d8 |
|--------------------|--------------|----------------------|----------------------|------------|
| | | 85-122 | 89-119 | 87-121 |
| MW-17 | R1809120-005 | 91 | 97 | 99 |
| MW-16 | R1809120-006 | 86 | 93 | 95 |
| MW-9 | R1809120-008 | 89 | 95 | 96 |
| MW-8 | R1809120-009 | 91 | 98 | 99 |
| MW-11 | R1809120-010 | 88 | 92 | 97 |
| DUP-092018 | R1809120-012 | 96 | 102 | 102 |
| Method Blank | RQ1810325-04 | 91 | 93 | 96 |
| Method Blank | RQ1810327-05 | 92 | 99 | 100 |
| Lab Control Sample | RQ1810325-08 | 97 | 96 | 99 |
| Lab Control Sample | RQ1810327-04 | 93 | 96 | 96 |
| MW-17 MS | RQ1810325-05 | 99 | 97 | 97 |
| MW-17 DMS | RQ1810325-06 | 92 | 93 | 93 |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18
Date Received: 09/21/18
Date Analyzed: 09/24/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: MW-17
Lab Code: R1809120-005
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

| Analyte Name | Sample Result | Matrix Spike RQ1810325-05 | | | Duplicate Matrix Spike RQ1810325-06 | | | % Rec Limits | RPD | RPD Limit |
|------------------------------|---------------|------------------------------|--------------|-------|--|--------------|-------|--------------|-----|-----------|
| | | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| 1,1,1-Trichloroethane (TCA) | 1.5 | 49.6 | 50.0 | 96 | 48.8 | 50.0 | 94 | 74-127 | 2 | 30 |
| 1,1-Dichloroethane (1,1-DCA) | 7.1 | 60.2 | 50.0 | 106 | 59.8 | 50.0 | 105 | 74-132 | <1 | 30 |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 48.2 | 50.0 | 96 | 47.1 | 50.0 | 94 | 71-118 | 2 | 30 |
| Tetrachloroethene (PCE) | 1.0 U | 47.4 | 50.0 | 95 | 47.2 | 50.0 | 94 | 72-125 | <1 | 30 |
| Trichloroethene (TCE) | 1.0 U | 48.9 | 50.0 | 98 | 48.4 | 50.0 | 97 | 74-122 | 1 | 30 |
| Vinyl Chloride | 1.0 U | 46.3 | 50.0 | 93 | 45.5 | 50.0 | 91 | 74-159 | 2 | 30 |
| cis-1,2-Dichloroethene | 1.0 U | 50.3 | 50.0 | 101 | 48.2 | 50.0 | 96 | 77-127 | 4 | 30 |
| trans-1,2-Dichloroethene | 1.0 U | 50.7 | 50.0 | 101 | 50.5 | 50.0 | 101 | 73-118 | <1 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/24/18 11:21
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Method Blank
Lab Code: RQ1810325-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-10
File ID: I:\ACQUADATA\msvoa10\data\092418\D6064.D\
Analysis Lot: 607883

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|---|----------------------|
| Lab Control Sample | RQ1810325-08 | I:\ACQUADATA\msvoa10\data\092418\D6062.D\ | 09/24/18 10:35 |
| MW-17 | R1809120-005 | I:\ACQUADATA\msvoa10\data\092418\D6080.D\ | 09/24/18 17:38 |
| MW-16 | R1809120-006 | I:\ACQUADATA\msvoa10\data\092418\D6081.D\ | 09/24/18 18:00 |
| MW-8 | R1809120-009 | I:\ACQUADATA\msvoa10\data\092418\D6083.D\ | 09/24/18 18:44 |
| DUP-092018 | R1809120-012 | I:\ACQUADATA\msvoa10\data\092418\D6084.D\ | 09/24/18 19:08 |
| MW-11 | R1809120-010 | I:\ACQUADATA\msvoa10\data\092418\D6085.D\ | 09/24/18 19:30 |
| MW-17MS | RQ1810325-05 | I:\ACQUADATA\msvoa10\data\092418\D6088.D\ | 09/24/18 20:36 |
| MW-17DMS | RQ1810325-06 | I:\ACQUADATA\msvoa10\data\092418\D6089.D\ | 09/24/18 20:57 |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/25/18 12:32
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Method Blank
Lab Code: RQ1810327-05
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-10
File ID:I:\ACQUADATA\msvoa10\data\092518\D6103.D\
Analysis Lot:608092

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|---|----------------------|
| Lab Control Sample | RQ1810327-04 | I:\ACQUADATA\msvoa10\data\092518\D6101.D\ | 09/25/18 11:48 |
| MW-9 | R1809120-008 | I:\ACQUADATA\msvoa10\data\092518\D6104.D\ | 09/25/18 12:53 |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1810325-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/24/18 11:21 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 11:21 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 11:21 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 11:21 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 11:21 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 11:21 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 11:21 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 11:21 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 09/24/18 11:21 | |
| Dibromofluoromethane | 93 | 89 - 119 | 09/24/18 11:21 | |
| Toluene-d8 | 96 | 87 - 121 | 09/24/18 11:21 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1810327-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/25/18 12:32 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/18 12:32 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/25/18 12:32 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/25/18 12:32 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/18 12:32 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/25/18 12:32 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/25/18 12:32 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/25/18 12:32 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 09/25/18 12:32 | |
| Dibromofluoromethane | 99 | 89 - 119 | 09/25/18 12:32 | |
| Toluene-d8 | 100 | 87 - 121 | 09/25/18 12:32 | |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/24/18 10:35
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Lab Control Sample
Lab Code: RQ1810325-08
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-10
File ID: I:\ACQUADATA\msvoa10\data\092418\D6062.D\
Analysis Lot: 607883

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|---|----------------------|
| Method Blank | RQ1810325-04 | I:\ACQUADATA\msvoa10\data\092418\D6064.D\ | 09/24/18 11:21 |
| MW-17 | R1809120-005 | I:\ACQUADATA\msvoa10\data\092418\D6080.D\ | 09/24/18 17:38 |
| MW-16 | R1809120-006 | I:\ACQUADATA\msvoa10\data\092418\D6081.D\ | 09/24/18 18:00 |
| MW-8 | R1809120-009 | I:\ACQUADATA\msvoa10\data\092418\D6083.D\ | 09/24/18 18:44 |
| DUP-092018 | R1809120-012 | I:\ACQUADATA\msvoa10\data\092418\D6084.D\ | 09/24/18 19:08 |
| MW-11 | R1809120-010 | I:\ACQUADATA\msvoa10\data\092418\D6085.D\ | 09/24/18 19:30 |
| MW-17MS | RQ1810325-05 | I:\ACQUADATA\msvoa10\data\092418\D6088.D\ | 09/24/18 20:36 |
| MW-17DMS | RQ1810325-06 | I:\ACQUADATA\msvoa10\data\092418\D6089.D\ | 09/24/18 20:57 |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/25/18 11:48
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: Lab Control Sample
Lab Code: RQ1810327-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID:R-MS-10
File ID:I:\ACQUADATA\msvoa10\data\092518\D6101.D\
Analysis Lot:608092

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|--------------------|-----------------|---|----------------------|
| Method Blank | RQ1810327-05 | I:\ACQUADATA\msvoa10\data\092518\D6103.D\ | 09/25/18 12:32 |
| MW-9 | R1809120-008 | I:\ACQUADATA\msvoa10\data\092518\D6104.D\ | 09/25/18 12:53 |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/24/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ1810325-08

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------------------------|---------------|---------------------|--------------|---------------------|
| 1,1,1-Trichloroethane (TCA) | 8260C | 18.6 | 20.0 | 93 | 75-125 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 20.9 | 20.0 | 105 | 80-124 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 19.6 | 20.0 | 98 | 71-118 |
| Tetrachloroethene (PCE) | 8260C | 18.7 | 20.0 | 93 | 72-125 |
| Trichloroethene (TCE) | 8260C | 18.8 | 20.0 | 94 | 74-122 |
| Vinyl Chloride | 8260C | 18.1 | 20.0 | 91 | 74-159 |
| cis-1,2-Dichloroethene | 8260C | 19.6 | 20.0 | 98 | 80-121 |
| trans-1,2-Dichloroethene | 8260C | 18.8 | 20.0 | 94 | 73-118 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Analyzed: 09/25/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ1810327-04

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------------------------|---------------|---------------------|--------------|---------------------|
| 1,1,1-Trichloroethane (TCA) | 8260C | 19.6 | 20.0 | 98 | 75-125 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 21.4 | 20.0 | 107 | 80-124 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 19.7 | 20.0 | 99 | 71-118 |
| Tetrachloroethene (PCE) | 8260C | 20.3 | 20.0 | 102 | 72-125 |
| Trichloroethene (TCE) | 8260C | 19.5 | 20.0 | 97 | 74-122 |
| Vinyl Chloride | 8260C | 18.5 | 20.0 | 93 | 74-159 |
| cis-1,2-Dichloroethene | 8260C | 19.9 | 20.0 | 100 | 80-121 |
| trans-1,2-Dichloroethene | 8260C | 20.1 | 20.0 | 100 | 73-118 |

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dba ALS Environmental

QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/24/18 09:03

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa10\data\092418\D6059.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 607883

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|---------------|---------------|----------------------|---------------|------------------|
| 50 | 95 | 15 | 40 | 25.10 | 29029 | Pass |
| 75 | 95 | 30 | 60 | 55.90 | 64645 | Pass |
| 95 | 95 | 100 | 100 | 100.00 | 115651 | Pass |
| 96 | 95 | 5 | 9 | 6.67 | 7717 | Pass |
| 173 | 174 | 0 | 2 | 0.98 | 963 | Pass |
| 174 | 95 | 50 | 120 | 85.22 | 98552 | Pass |
| 175 | 174 | 5 | 9 | 7.56 | 7447 | Pass |
| 176 | 174 | 95 | 101 | 95.13 | 93752 | Pass |
| 177 | 176 | 5 | 9 | 6.87 | 6439 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|-------------------------------------|--------------|---|----------------|---|
| Continuing Calibration Verification | RQ1810325-02 | I:\ACQUADATA\msvoa10\data\092418\D6060.D\ | 09/24/18 09:41 | |
| Lab Control Sample | RQ1810325-08 | I:\ACQUADATA\msvoa10\data\092418\D6062.D\ | 09/24/18 10:35 | |
| Method Blank | RQ1810325-04 | I:\ACQUADATA\msvoa10\data\092418\D6064.D\ | 09/24/18 11:21 | |
| MW-17 | R1809120-005 | I:\ACQUADATA\msvoa10\data\092418\D6080.D\ | 09/24/18 17:38 | |
| MW-16 | R1809120-006 | I:\ACQUADATA\msvoa10\data\092418\D6081.D\ | 09/24/18 18:00 | |
| MW-8 | R1809120-009 | I:\ACQUADATA\msvoa10\data\092418\D6083.D\ | 09/24/18 18:44 | |
| DUP-092018 | R1809120-012 | I:\ACQUADATA\msvoa10\data\092418\D6084.D\ | 09/24/18 19:08 | |
| MW-11 | R1809120-010 | I:\ACQUADATA\msvoa10\data\092418\D6085.D\ | 09/24/18 19:30 | |
| MW-17 | RQ1810325-05 | I:\ACQUADATA\msvoa10\data\092418\D6088.D\ | 09/24/18 20:36 | |
| MW-17 | RQ1810325-06 | I:\ACQUADATA\msvoa10\data\092418\D6089.D\ | 09/24/18 20:57 | |

ALS Group USA, Corp.
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QC/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/25/18 10:01

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa10\data\092518\D6098.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 608092

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|-------------|------------------|---------------|---------------|----------------------|---------------|------------------|
| 50 | 95 | 15 | 40 | 24.96 | 16952 | Pass |
| 75 | 95 | 30 | 60 | 56.76 | 38552 | Pass |
| 95 | 95 | 100 | 100 | 100.00 | 67923 | Pass |
| 96 | 95 | 5 | 9 | 6.83 | 4637 | Pass |
| 173 | 174 | 0 | 2 | 1.97 | 1150 | Pass |
| 174 | 95 | 50 | 120 | 85.79 | 58274 | Pass |
| 175 | 174 | 5 | 9 | 7.92 | 4613 | Pass |
| 176 | 174 | 95 | 101 | 96.14 | 56026 | Pass |
| 177 | 176 | 5 | 9 | 6.27 | 3513 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|-------------------------------------|--------------|---|----------------|---|
| Continuing Calibration Verification | RQ1810327-02 | I:\ACQUADATA\msvoa10\data\092518\D6099.D\ | 09/25/18 10:36 | |
| Lab Control Sample | RQ1810327-04 | I:\ACQUADATA\msvoa10\data\092518\D6101.D\ | 09/25/18 11:48 | |
| Method Blank | RQ1810327-05 | I:\ACQUADATA\msvoa10\data\092518\D6103.D\ | 09/25/18 12:32 | |
| MW-9 | R1809120-008 | I:\ACQUADATA\msvoa10\data\092518\D6104.D\ | 09/25/18 12:53 | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/24/18 09:41

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa10\data\092418\D6060.D\
Instrument ID: R-MS-10
Analysis Method: 8260C

Lab Code:RQ1810325-02
Analysis Lot:607883
Signal ID:1

| | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---------------------------|------------------------|-------|---------------------|------|------------------|-------|
| | Area | RT | Area | RT | Area | RT |
| Result ==> | 184,693 | 11.85 | 348,015 | 6.49 | 314,261 | 9.80 |
| Upper Limit ==> | 369,386 | 12.35 | 696,030 | 6.99 | 628,522 | 10.30 |
| Lower Limit ==> | 92,347 | 11.35 | 174,008 | 5.99 | 157,131 | 9.30 |

Associated Analyses

| Sample Name | Lab Code | Area | RT | Area | RT | Area | RT |
|--------------------|--------------|--------|-------|--------|------|--------|------|
| Lab Control Sample | RQ1810325-08 | 175141 | 11.85 | 352269 | 6.49 | 313024 | 9.80 |
| Method Blank | RQ1810325-04 | 150721 | 11.85 | 335947 | 6.49 | 297745 | 9.80 |
| MW-17 | R1809120-005 | 135896 | 11.85 | 314860 | 6.49 | 269323 | 9.80 |
| MW-16 | R1809120-006 | 141137 | 11.85 | 325767 | 6.49 | 276091 | 9.80 |
| MW-8 | R1809120-009 | 138001 | 11.85 | 310169 | 6.49 | 268335 | 9.80 |
| DUP-092018 | R1809120-012 | 128777 | 11.85 | 294696 | 6.49 | 259037 | 9.80 |
| MW-11 | R1809120-010 | 140451 | 11.85 | 326046 | 6.49 | 280530 | 9.80 |
| MW-17MS | RQ1810325-05 | 170846 | 11.85 | 338596 | 6.49 | 300725 | 9.80 |
| MW-17DMS | RQ1810325-06 | 173814 | 11.85 | 360184 | 6.49 | 314193 | 9.80 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/24/18 09:41

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa10\data\092418\D6060.D\
Instrument ID: R-MS-10
Analysis Method: 8260C

Lab Code:RQ1810325-02
Analysis Lot:607883
Signal ID:1

| | Pentafluorobenzene | |
|---------------------------|--------------------|------|
| | Area | RT |
| Result ==> | 229,317 | 5.39 |
| Upper Limit ==> | 458,634 | 5.89 |
| Lower Limit ==> | 114,659 | 4.89 |

Associated Analyses

| Lab Control Sample | RQ1810325-08 | 231000 | 5.39 |
|--------------------|--------------|--------|------|
| Method Blank | RQ1810325-04 | 222881 | 5.39 |
| MW-17 | R1809120-005 | 196977 | 5.39 |
| MW-16 | R1809120-006 | 204753 | 5.39 |
| MW-8 | R1809120-009 | 201911 | 5.39 |
| DUP-092018 | R1809120-012 | 188218 | 5.40 |
| MW-11 | R1809120-010 | 207507 | 5.39 |
| MW-17MS | RQ1810325-05 | 222379 | 5.39 |
| MW-17DMS | RQ1810325-06 | 237391 | 5.39 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/25/18 10:36

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa10\data\092518\D6099.D\
Instrument ID: R-MS-10
Analysis Method: 8260C

Lab Code:RQ1810327-02
Analysis Lot:608092
Signal ID:1

| | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---------------------------|------------------------|-------|---------------------|------|------------------|-------|
| | Area | RT | Area | RT | Area | RT |
| Result ==> | 171,125 | 11.85 | 329,483 | 6.49 | 291,886 | 9.80 |
| Upper Limit ==> | 342,250 | 12.35 | 658,966 | 6.99 | 583,772 | 10.30 |
| Lower Limit ==> | 85,563 | 11.35 | 164,742 | 5.99 | 145,943 | 9.30 |

Associated Analyses

| | | | | | | | |
|--------------------|--------------|--------|-------|--------|------|--------|------|
| Lab Control Sample | RQ1810327-04 | 161335 | 11.85 | 339718 | 6.49 | 296166 | 9.80 |
| Method Blank | RQ1810327-05 | 137102 | 11.85 | 314548 | 6.49 | 277877 | 9.80 |
| MW-9 | R1809120-008 | 141508 | 11.85 | 325199 | 6.49 | 282716 | 9.80 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120
Date Analyzed:09/25/18 10:36

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUADATA\msvoa10\data\092518\D6099.D\
Instrument ID: R-MS-10
Analysis Method: 8260C

Lab Code:RQ1810327-02
Analysis Lot:608092
Signal ID:1

| | Pentafluorobenzene | |
|---------------------------|--------------------|------|
| | Area | RT |
| Result ==> | 214,177 | 5.39 |
| Upper Limit ==> | 428,354 | 5.89 |
| Lower Limit ==> | 107,089 | 4.89 |

Associated Analyses

| | | | |
|--------------------|--------------|--------|------|
| Lab Control Sample | RQ1810327-04 | 224537 | 5.39 |
| Method Blank | RQ1810327-05 | 199456 | 5.39 |
| MW-9 | R1809120-008 | 208301 | 5.39 |



Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18
Date Received: 09/21/18 09:50

Sample Name: Trip Blank - 092018
Lab Code: R1809120-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 11:34 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:34 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:34 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:34 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:34 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 11:34 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:34 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:34 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/28/18 11:34 | |
| Dibromofluoromethane | 96 | 89 - 119 | 09/28/18 11:34 | |
| Toluene-d8 | 94 | 87 - 121 | 09/28/18 11:34 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 11:15
Date Received: 09/21/18 09:50

Sample Name: MW-10
Lab Code: R1809120-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.3 | 1.0 | 0.25 | 1 | 09/28/18 12:18 | |
| 1,1-Dichloroethane (1,1-DCA) | 0.79 J | 1.0 | 0.20 | 1 | 09/28/18 12:18 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 12:18 | |
| Tetrachloroethene (PCE) | 0.87 J | 1.0 | 0.28 | 1 | 09/28/18 12:18 | |
| Trichloroethene (TCE) | 10 | 1.0 | 0.20 | 1 | 09/28/18 12:18 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 12:18 | |
| cis-1,2-Dichloroethene | 2.6 | 1.0 | 0.26 | 1 | 09/28/18 12:18 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 12:18 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 90 | 85 - 122 | 09/28/18 12:18 | |
| Dibromofluoromethane | 97 | 89 - 119 | 09/28/18 12:18 | |
| Toluene-d8 | 95 | 87 - 121 | 09/28/18 12:18 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 11:15
Date Received: 09/21/18 09:50

Sample Name: MW-13
Lab Code: R1809120-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 12:40 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 12:40 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 12:40 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 12:40 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 12:40 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 12:40 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 12:40 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 12:40 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 95 | 85 - 122 | 09/28/18 12:40 | |
| Dibromofluoromethane | 101 | 89 - 119 | 09/28/18 12:40 | |
| Toluene-d8 | 104 | 87 - 121 | 09/28/18 12:40 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 11:20
Date Received: 09/21/18 09:50

Sample Name: DMW-3
Lab Code: R1809120-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 13:01 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:01 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:01 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:01 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:01 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 13:01 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:01 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:01 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 95 | 85 - 122 | 09/28/18 13:01 | |
| Dibromofluoromethane | 100 | 89 - 119 | 09/28/18 13:01 | |
| Toluene-d8 | 102 | 87 - 121 | 09/28/18 13:01 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 12:45
Date Received: 09/21/18 09:50

Sample Name: TMP-A
Lab Code: R1809120-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 13:23 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:23 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:23 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 13:23 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 13:23 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 13:23 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:23 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 13:23 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 97 | 85 - 122 | 09/28/18 13:23 | |
| Dibromofluoromethane | 101 | 89 - 119 | 09/28/18 13:23 | |
| Toluene-d8 | 103 | 87 - 121 | 09/28/18 13:23 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 16:30
Date Received: 09/21/18 09:50

Sample Name: FB-092018
Lab Code: R1809120-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/28/18 11:56 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:56 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:56 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/28/18 11:56 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/28/18 11:56 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/28/18 11:56 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:56 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/28/18 11:56 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 09/28/18 11:56 | |
| Dibromofluoromethane | 99 | 89 - 119 | 09/28/18 11:56 | |
| Toluene-d8 | 98 | 87 - 121 | 09/28/18 11:56 | |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6245.D
 Acq On : 28 Sep 2018 11:34 am
 Operator : D.LIPANI
 Sample : R1809120-001|1.0 Inst : MSVOA10
 Misc : Verina 6646 T4
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 14:54:40 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

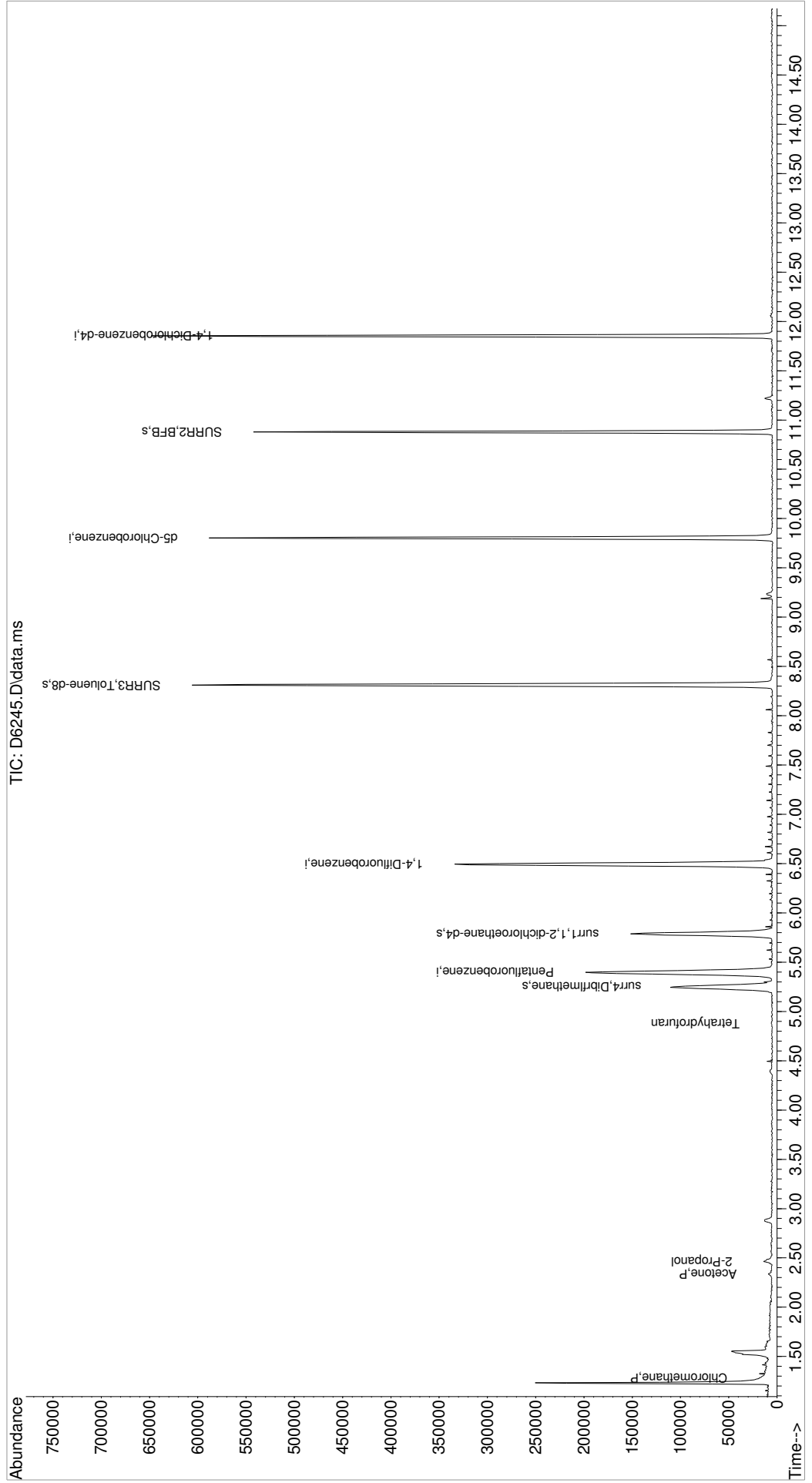
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 175507 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.494 | 114 | 266012 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 227275 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 116308 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.251 | 113 | 86215 | 48.09 | ug/L | 0.01 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 96.18% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 122152 | 51.81 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 103.62% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 341627 | 47.00 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 94.00% | |
| 69) SURR2,BFB | 10.878 | 95 | 124648 | 44.62 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 89.24% | |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 3) Chloromethane | 1.282 | 50 | 685 | 0.27 | ug/L | 85 |
| 15) Acetone | 2.337 | 43 | 3213 | 3.11 | ug/L | 94 |
| 16) 2-Propanol | 2.465 | 45 | 8729 | 43.72 | ug/L | 74 |
| 38) Tetrahydrofuran | 4.879 | 42 | 450 | 0.52 | ug/L | 74 |

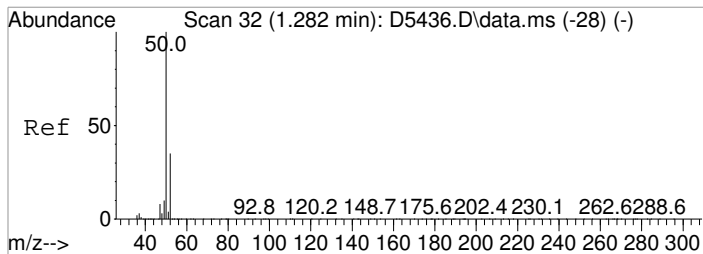
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\092818\
 Data File : D6245.D
 Acq On : 28 Sep 2018 11:34 am
 Operator : D.LIPANI
 Sample : R1809120-001|1.0
 Misc : Verina 6646 T4
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

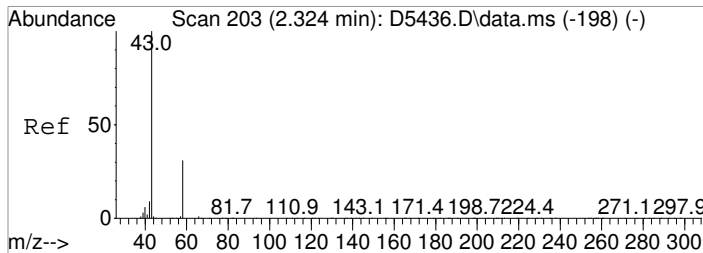
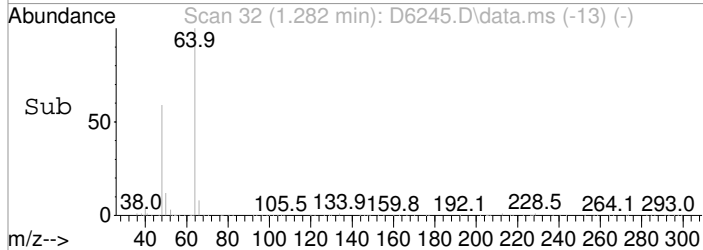
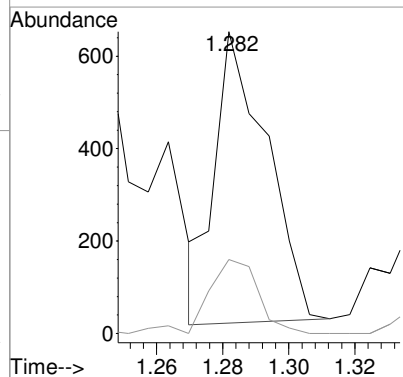
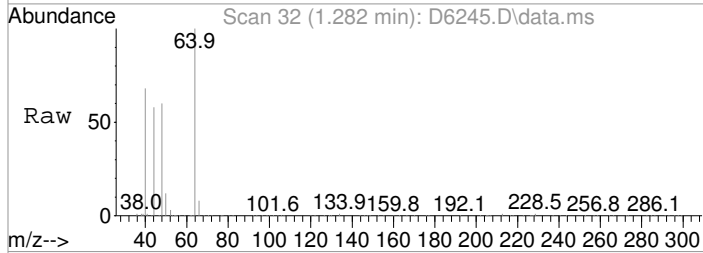
Quant Time: Oct 01 14:54:40 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration





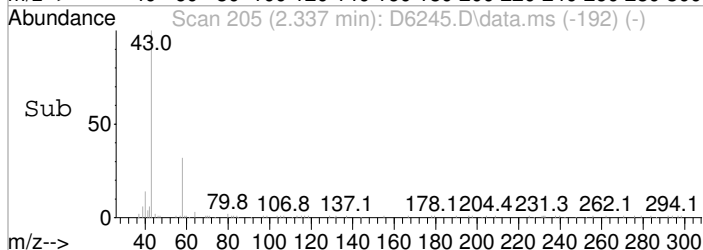
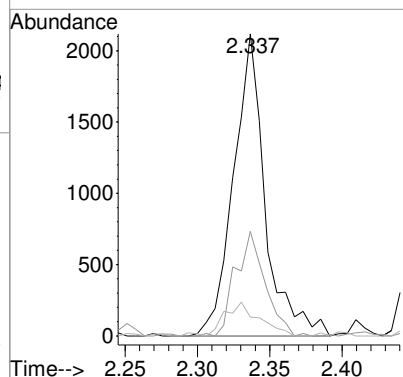
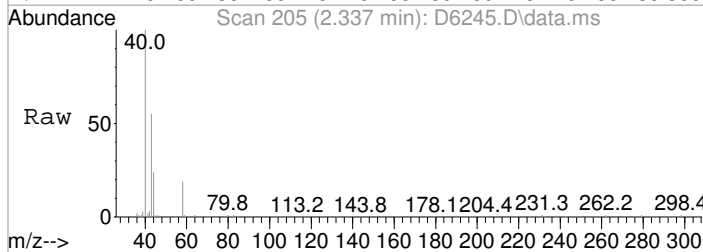
#3
 Chloromethane
 Concen: 0.27 ug/L
 RT: 1.282 min Scan# 32
 Delta R.T. -0.000 min
 Lab File: D6245.D
 Acq: 28 Sep 2018 11:34 am

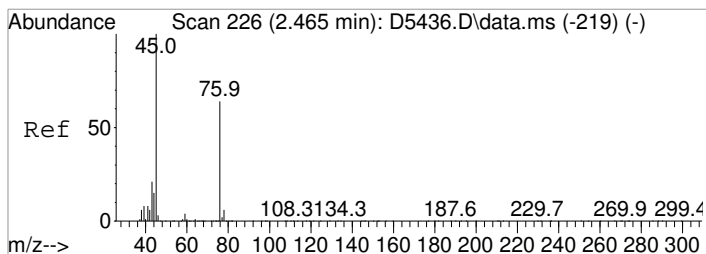
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 50 | 100 | | |
| 52 | 26.0 | 15.0 | 55.0 |



#15
 Acetone
 Concen: 3.11 ug/L
 RT: 2.337 min Scan# 205
 Delta R.T. 0.006 min
 Lab File: D6245.D
 Acq: 28 Sep 2018 11:34 am

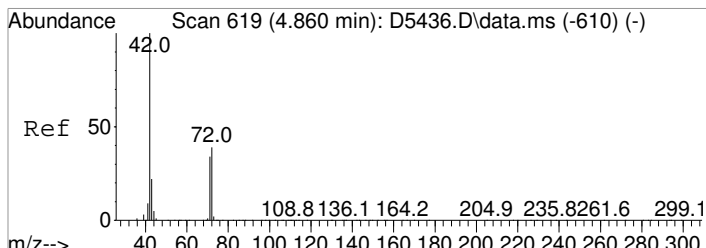
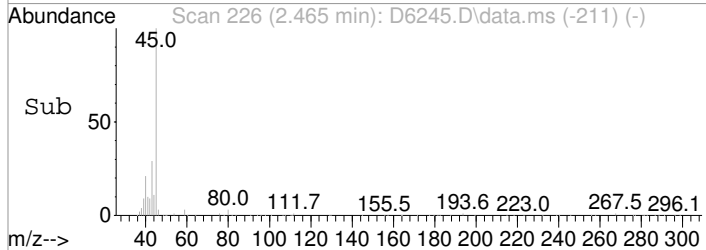
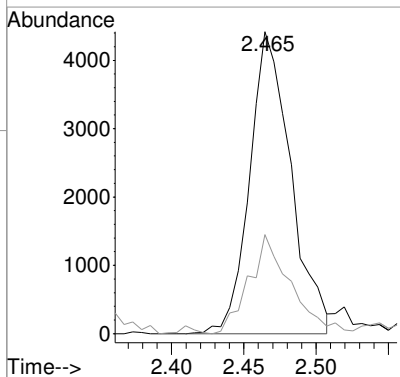
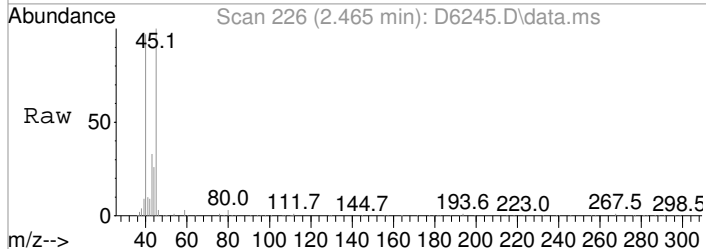
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 34.7 | 11.2 | 51.2 |
| 42 | 6.2 | 0.0 | 28.6 |





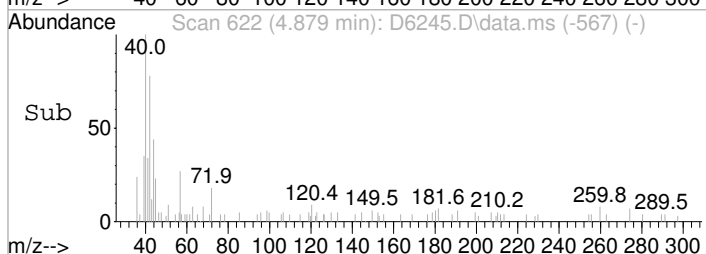
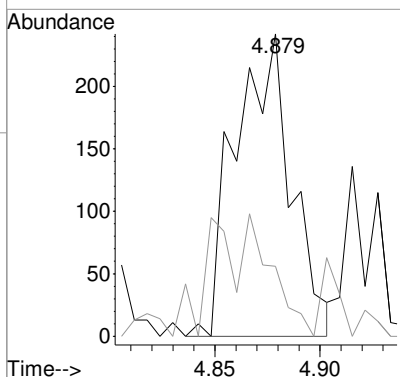
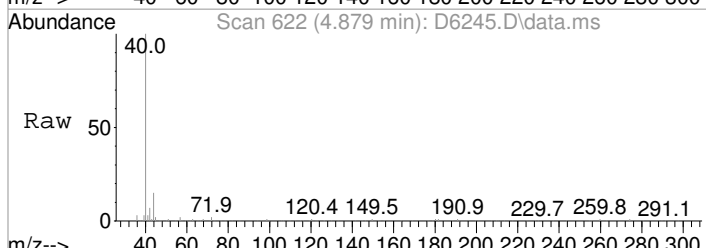
#16
 2-Propanol
 Concen: 43.72 ug/L
 RT: 2.465 min Scan# 226
 Delta R.T. -0.018 min
 Lab File: D6245.D
 Acq: 28 Sep 2018 11:34 am

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 100 | | |
| 43 | 32.8 | 0.8 | 40.8 |



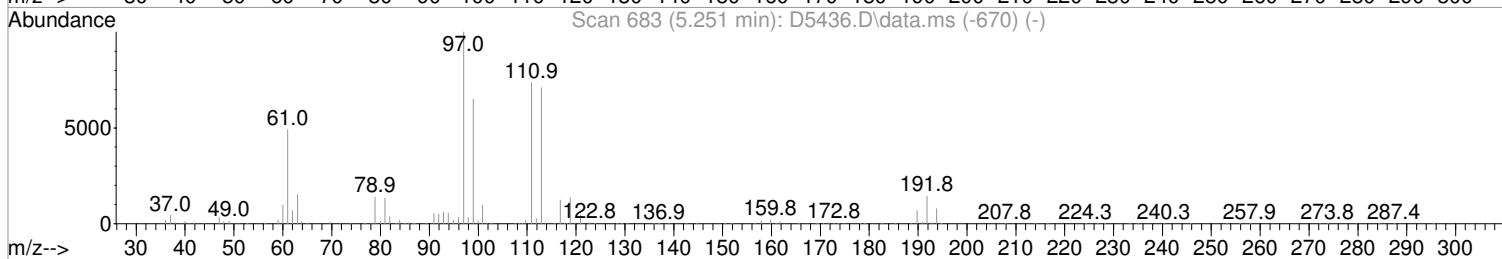
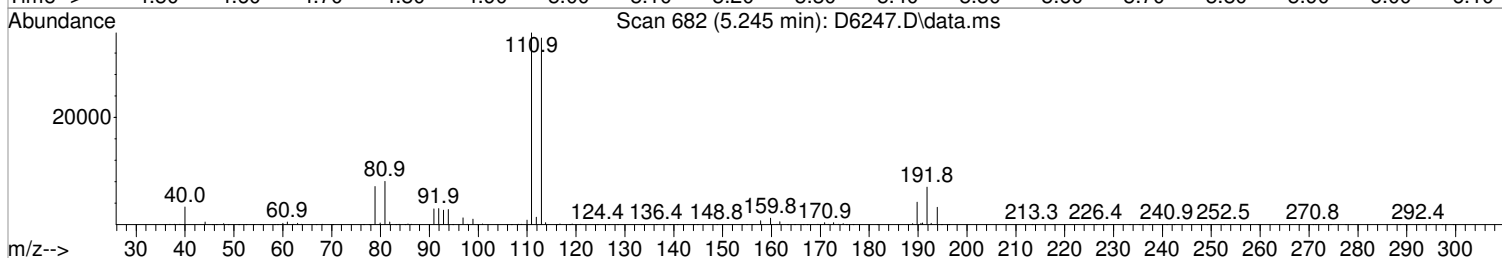
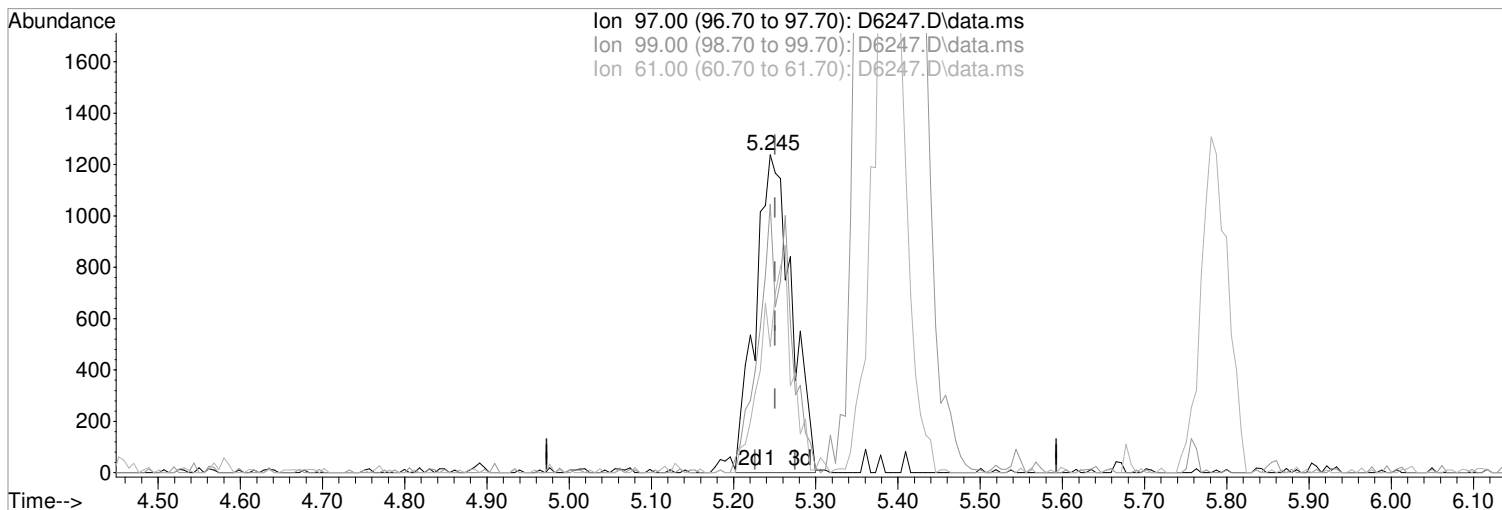
#38
 Tetrahydrofuran
 Concen: 0.52 ug/L
 RT: 4.879 min Scan# 622
 Delta R.T. 0.018 min
 Lab File: D6245.D
 Acq: 28 Sep 2018 11:34 am

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 42 | 100 | | |
| 72 | 23.1 | 18.8 | 58.8 |



Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6247.D
 Acq On : 28 Sep 2018 12:18 pm
 Operator : D.LIPANI
 Sample : R1809120-002|1.0
 Misc : Verina 6646 T4
 ALS Vial : 8 Sample Multiplier: 1
 Inst : MSVOA10

Quant Time: Sep 28 12:32:59 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



TIC: D6247.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.245min (-0.006) 1.32 ug/L m
 response 3760

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 65.00 | 84.56 |
| 61.00 | 49.10 | 39.69 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

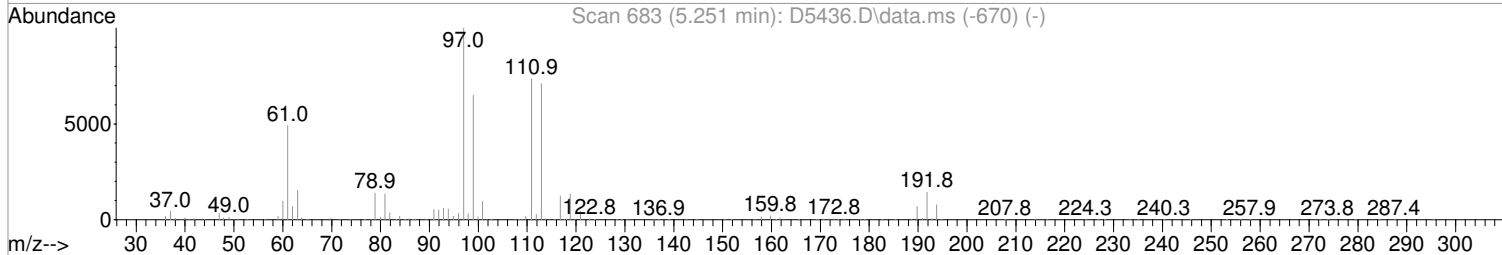
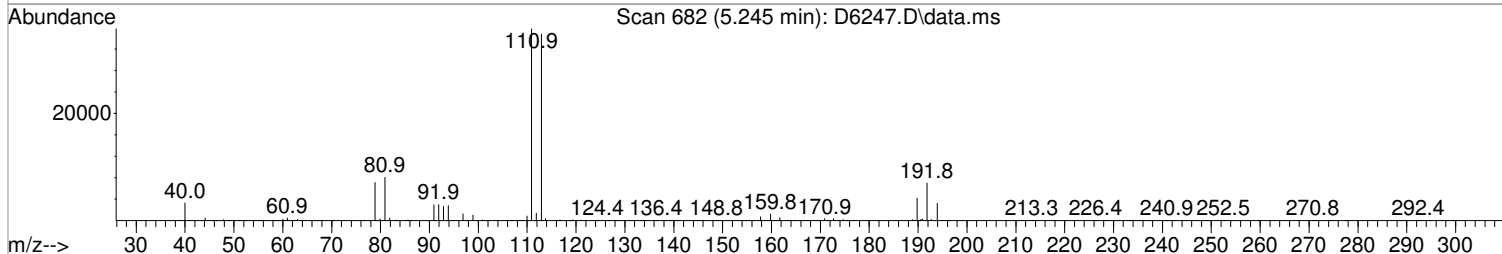
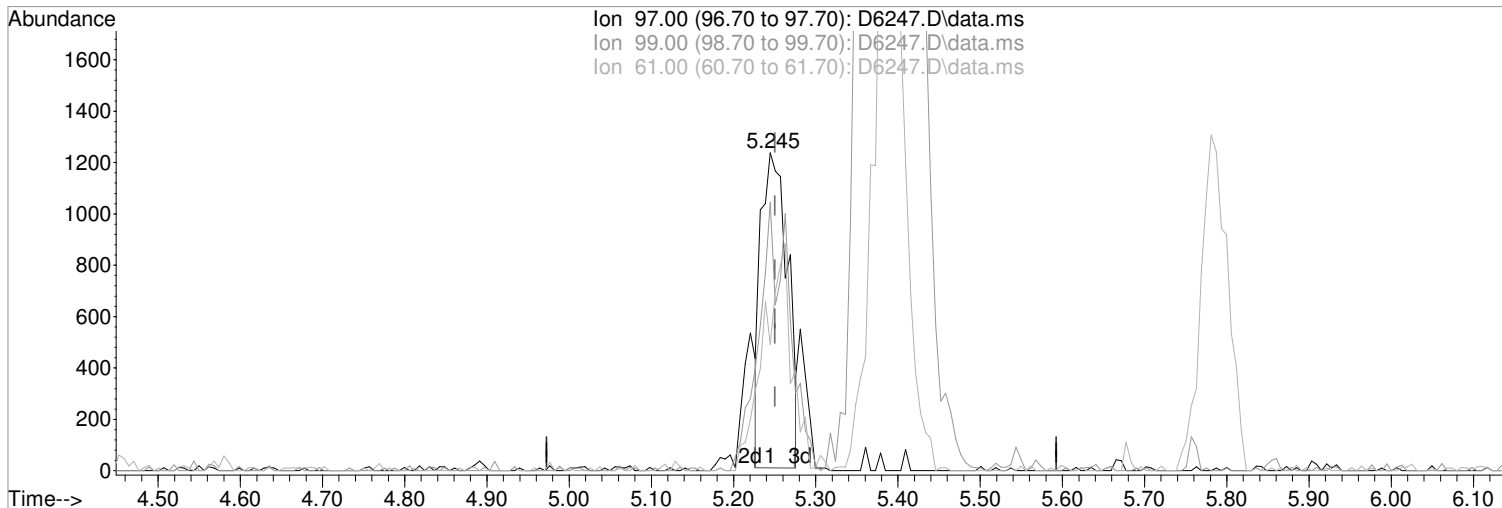
After

Poor integration.

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6247.D
Acq On : 28 Sep 2018 12:18 pm
Operator : D.LIPANI
Sample : R1809120-002|1.0
Misc : Verina 6646 T4
ALS Vial : 8 Sample Multiplier: 1
Inst : MSVOA10

Quant Time: Sep 28 12:32:59 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(40) 1,1,1-Trichloroethane (P)

5.245min (-0.006) 0.96 ug/L

response 2731

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 65.00 | 84.56 |
| 61.00 | 49.10 | 39.69 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6247.D
 Acq On : 28 Sep 2018 12:18 pm
 Operator : D.LIPANI
 Sample : R1809120-002|1.0 Inst : MSVOA10
 Misc : Verina 6646 T4
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 15:05:32 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 190786 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 300384 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 268036 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 130928 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 98528 | 48.67 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 97.34% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 141142 | 53.02 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 106.04% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 391263 | 47.67 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 95.34% | |
| 69) SURR2,BFB | 10.878 | 95 | 142152 | 45.07 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 90.14% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.587 | 94 | 438 | Below Cal | | 87 |
| 10) Freon 123a | 2.099 | 67 | 5144 | 2.12 | ug/L | 94 |
| 14) Freon 113 | 2.294 | 101 | 3044 | 1.74 | ug/L | 86 |
| 15) Acetone | 2.331 | 43 | 6304 | 5.62 | ug/L | 92 |
| 16) 2-Propanol | 2.465 | 45 | 7400 | 34.10 | ug/L | 92 |
| 23) TBA | 2.879 | 59 | 5052 | 15.54 | ug/L | 70 |
| 27) 1,1-Dicethane | 3.525 | 63 | 2899 | 0.79 | ug/L | 78 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 5456 | 2.60 | ug/L # | 83 |
| 40) 1,1,1-Trichloroethane | 5.245 | 97 | 3760m | 1.32 | ug/L | |
| 53) Trichloroethene | 6.811 | 130 | 20921 | 10.01 | ug/L | 85 |
| 71) Tetrachloroethene | 8.976 | 164 | 1454 | 0.87 | ug/L # | 76 |

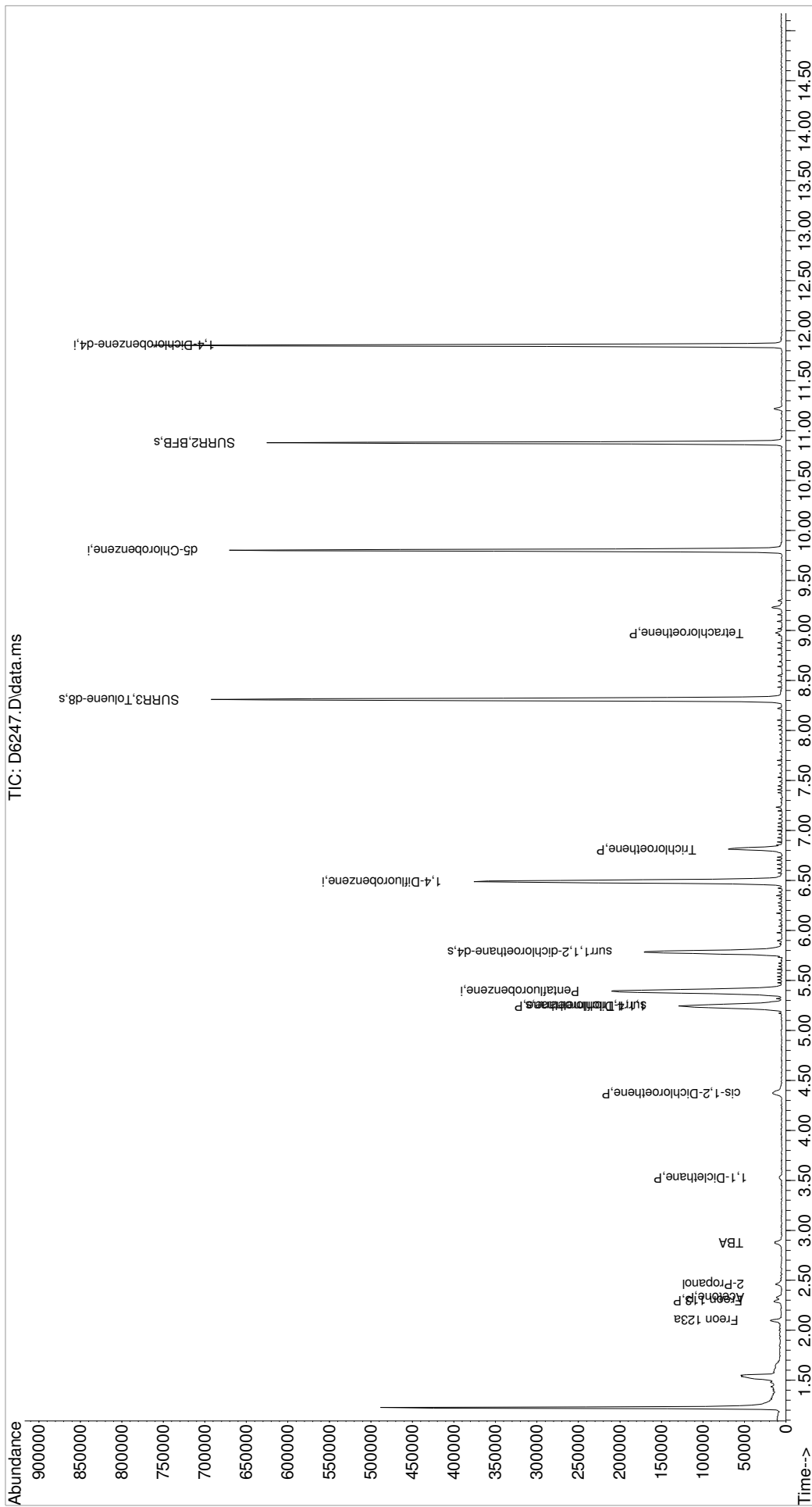
(#) = qualifier out of range (m) = manual integration (+) = signals summed

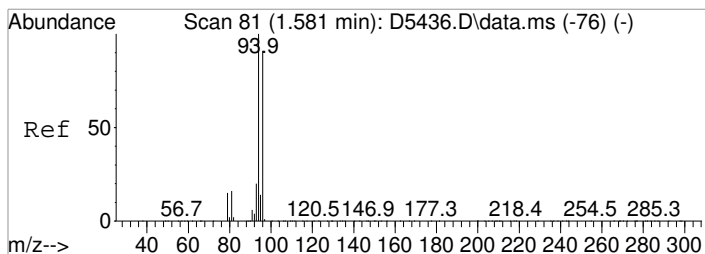
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\092818\
 Data File : D6247.D
 Acq On : 28 Sep 2018 12:18 pm
 Operator : D.LIPANI
 Sample : R1809120-002|1.0
 Misc : Verina 6646 T4
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

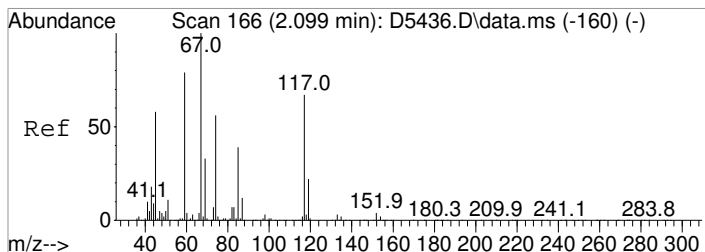
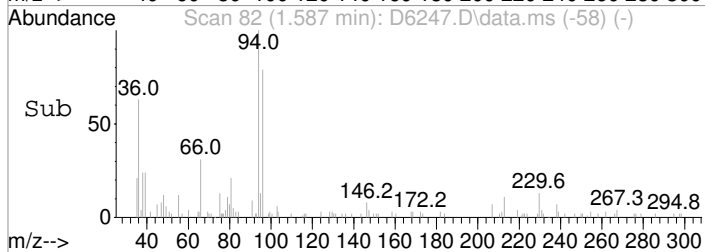
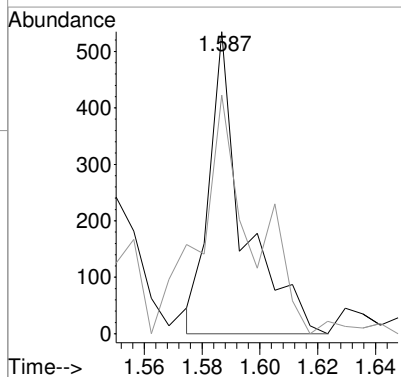
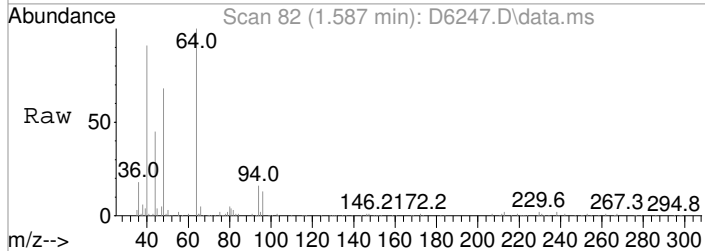
Quant Time: Oct 01 15:05:32 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration





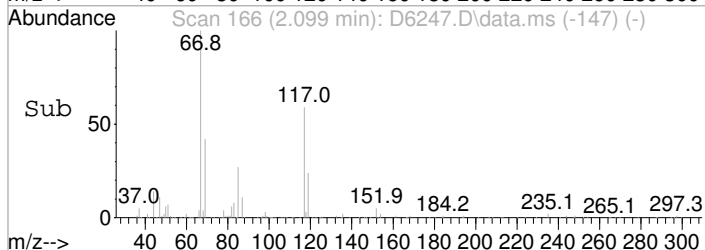
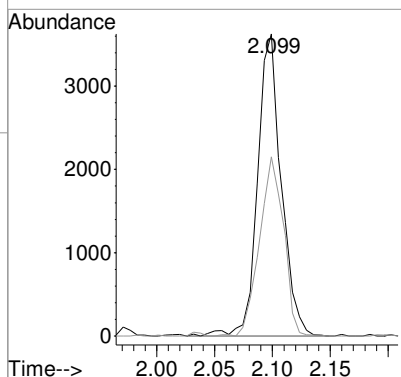
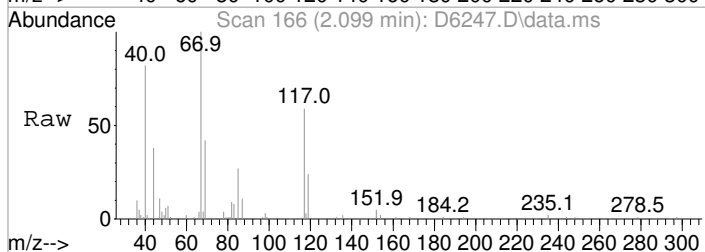
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.587 min Scan# 82
 Delta R.T. 0.006 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

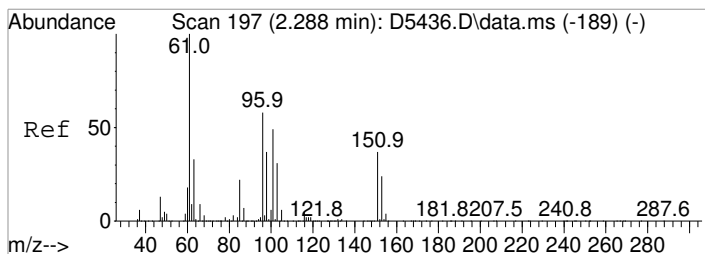
Tgt Ion: 94 Resp: 438
 Ion Ratio Lower Upper
 94 100
 96 79.1 71.1 111.1



#10
 Freon 123a
 Concen: 2.12 ug/L
 RT: 2.099 min Scan# 166
 Delta R.T. 0.000 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

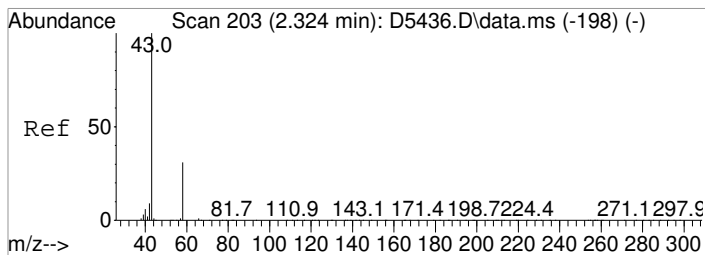
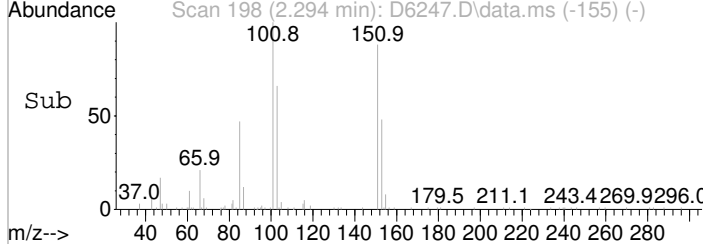
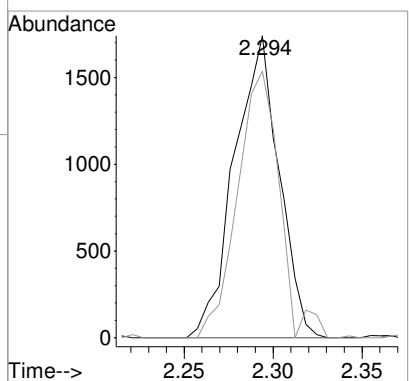
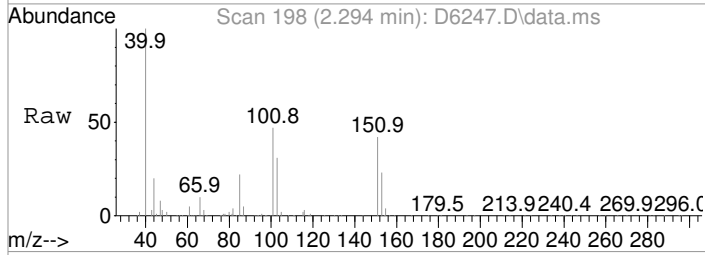
Tgt Ion: 67 Resp: 5144
 Ion Ratio Lower Upper
 67 100
 117 62.3 47.5 87.5





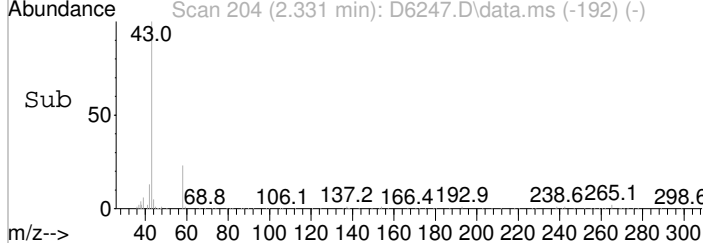
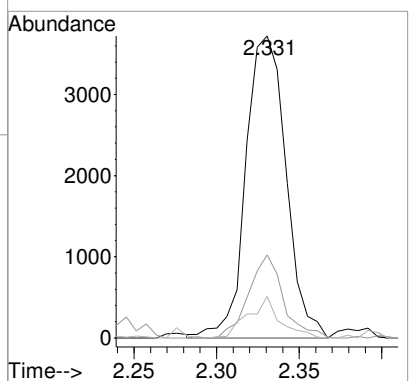
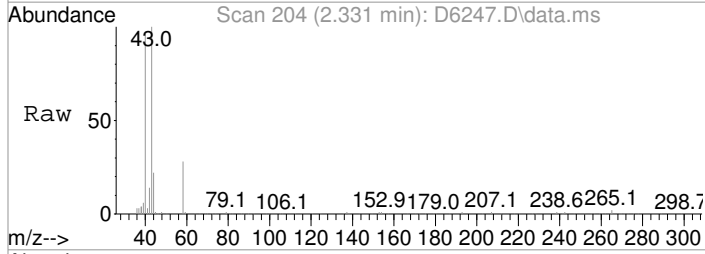
#14
 Freon 113
 Concen: 1.74 ug/L
 RT: 2.294 min Scan# 198
 Delta R.T. 0.006 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

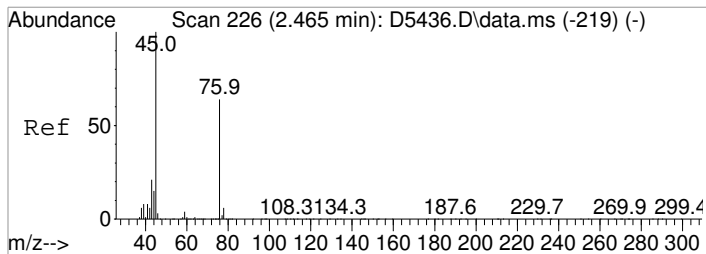
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 3044 | | |
| 101 | 100 | | |
| 151 | 88.3 | 56.1 | 96.1 |



#15
 Acetone
 Concen: 5.62 ug/L
 RT: 2.331 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

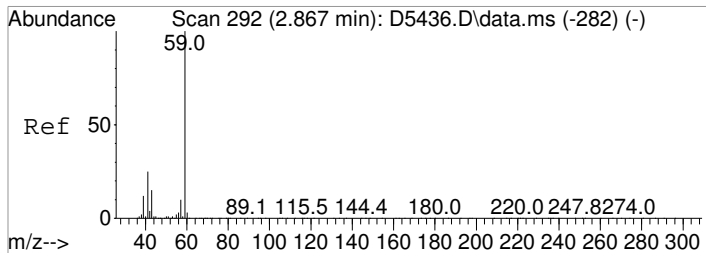
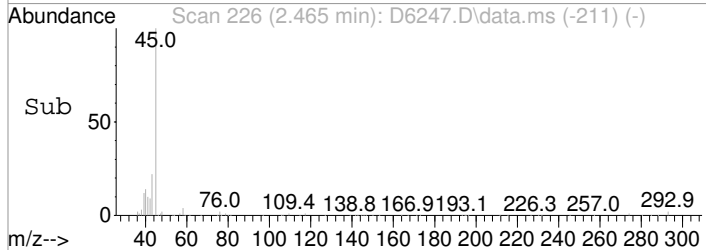
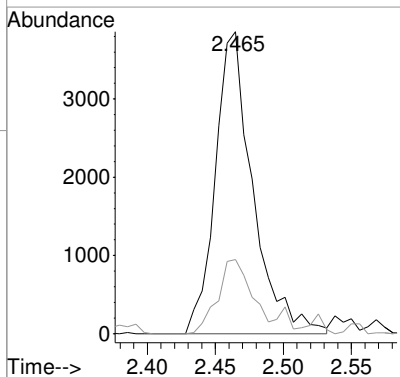
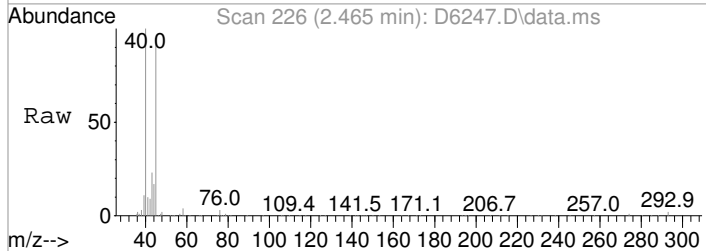
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 6304 | | |
| 43 | 100 | | |
| 58 | 27.6 | 11.2 | 51.2 |
| 42 | 13.7 | 0.0 | 28.6 |





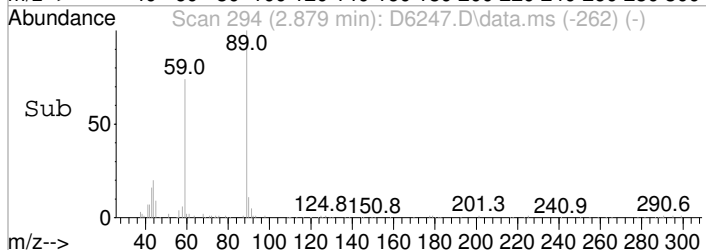
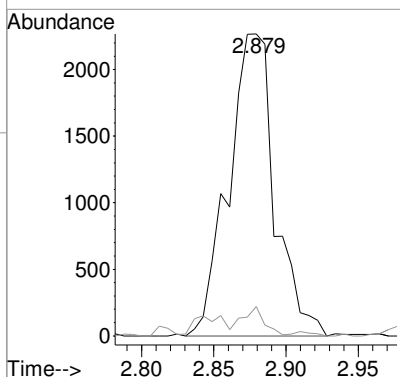
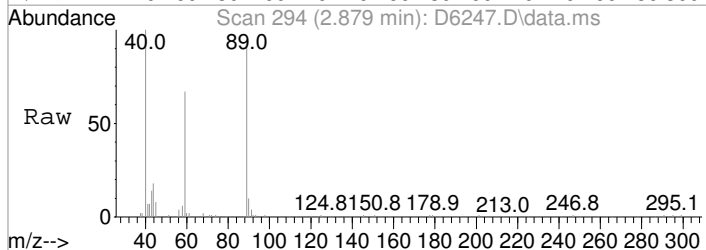
#16
 2-Propanol
 Concen: 34.10 ug/L
 RT: 2.465 min Scan# 226
 Delta R.T. -0.018 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

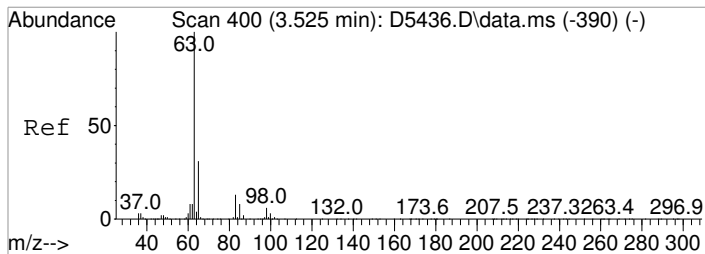
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 100 | | |
| 43 | 24.5 | 0.8 | 40.8 |



#23
 TBA
 Concen: 15.54 ug/L
 RT: 2.879 min Scan# 294
 Delta R.T. 0.006 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

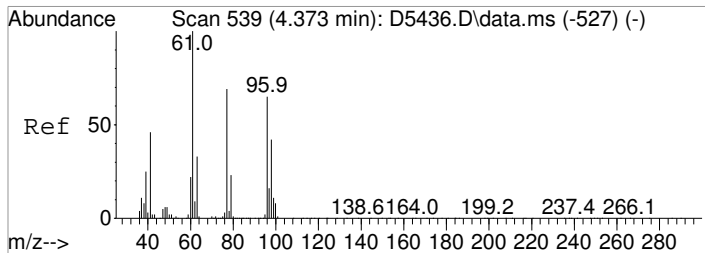
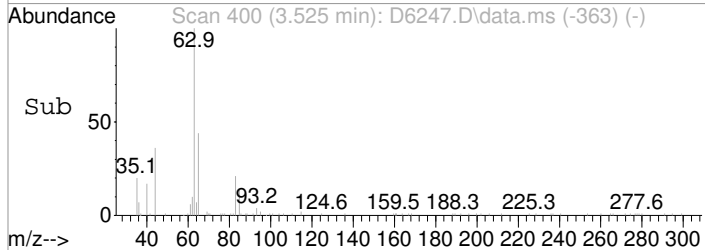
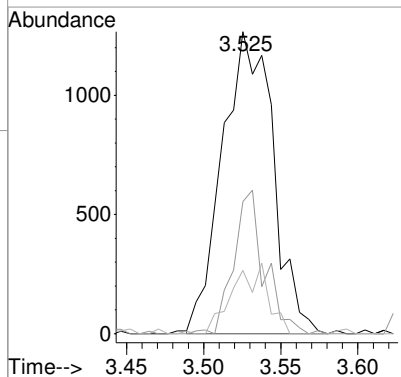
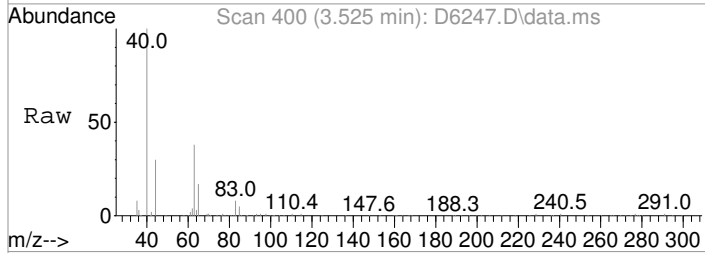
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 100 | | |
| 41 | 9.7 | 4.8 | 44.8 |





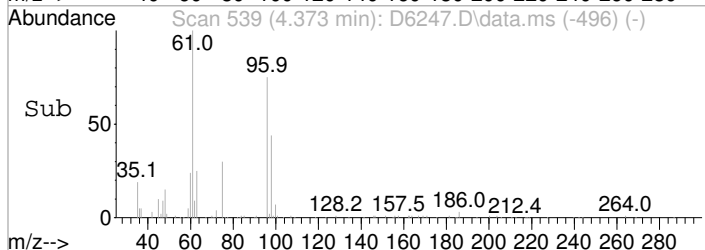
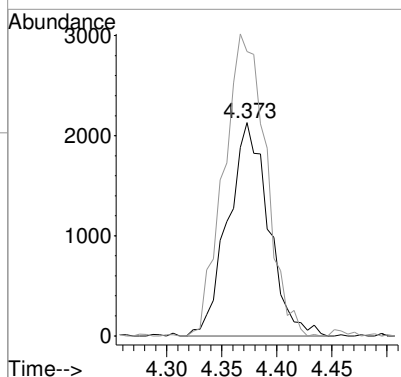
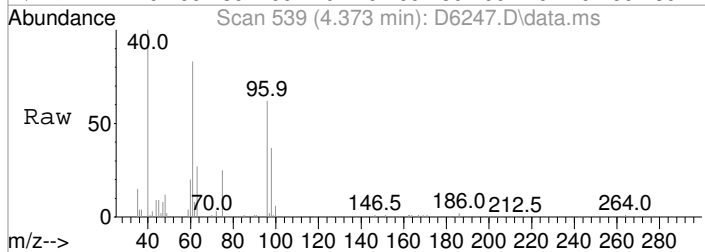
#27
 1,1-Dicylethane
 Concen: 0.79 ug/L
 RT: 3.525 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

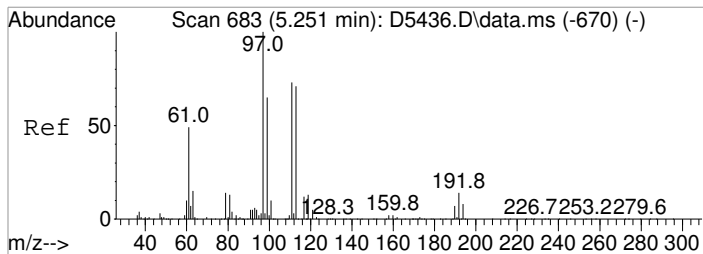
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 63 | 100 | | |
| 65 | 43.7 | 11.4 | 51.4 |
| 83 | 21.0 | 0.0 | 32.6 |



#33
 cis-1,2-Dichloroethene
 Concen: 2.60 ug/L
 RT: 4.373 min Scan# 539
 Delta R.T. 0.000 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

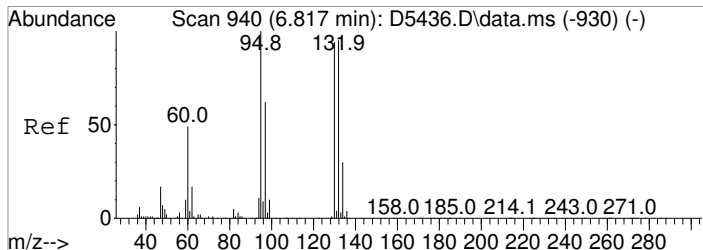
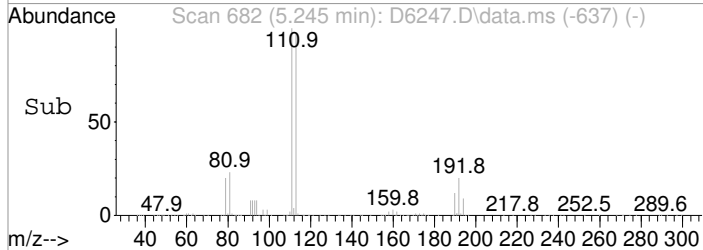
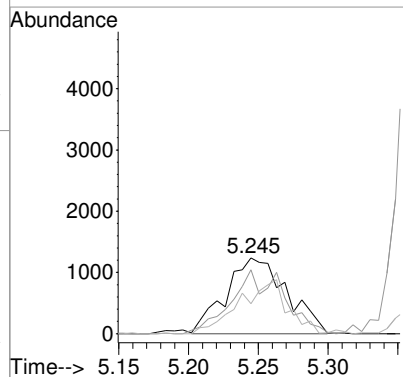
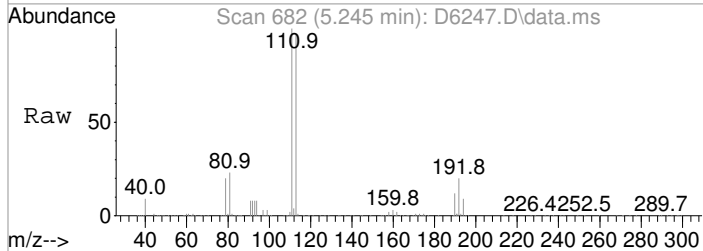
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 96 | 100 | | |
| 61 | 133.3 | 134.7 | 174.7# |





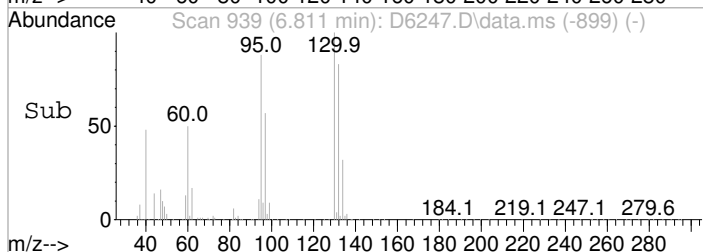
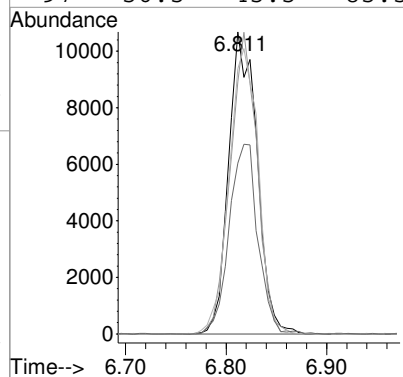
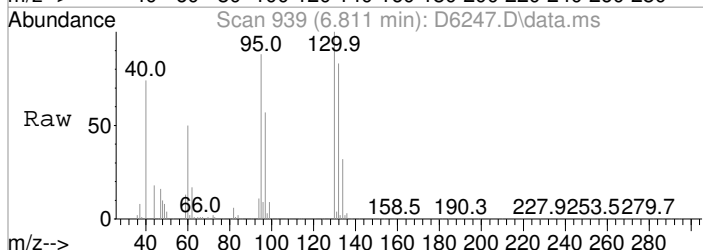
#40
 1,1,1-Trichloroethane
 Concen: 1.32 ug/L m
 RT: 5.245 min Scan# 682
 Delta R.T. -0.006 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

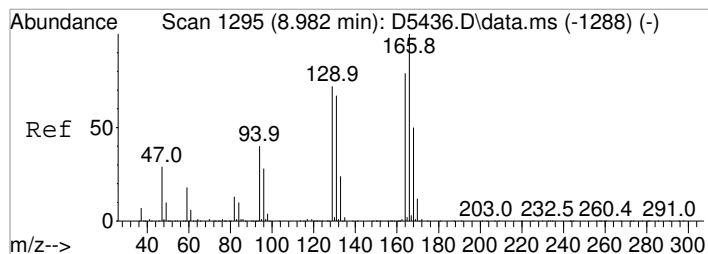
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 100 | | |
| 99 | 84.6 | 45.0 | 85.0 |
| 61 | 39.7 | 29.1 | 69.1 |



#53
 Trichloroethene
 Concen: 10.01 ug/L
 RT: 6.811 min Scan# 939
 Delta R.T. -0.006 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

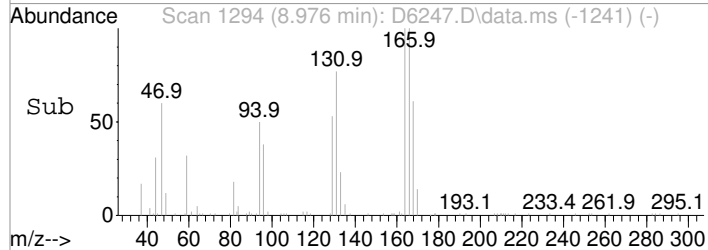
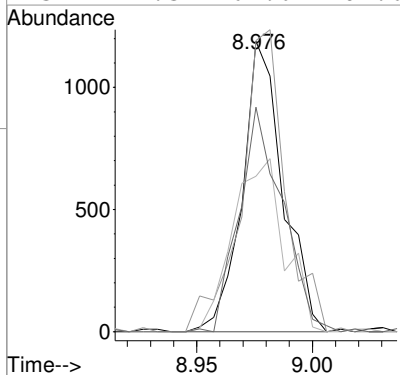
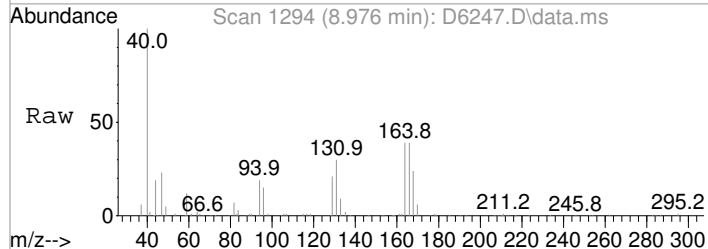
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 130 | 100 | | |
| 132 | 85.8 | 80.7 | 120.7 |
| 95 | 87.8 | 86.1 | 126.1 |
| 97 | 56.5 | 45.5 | 85.5 |





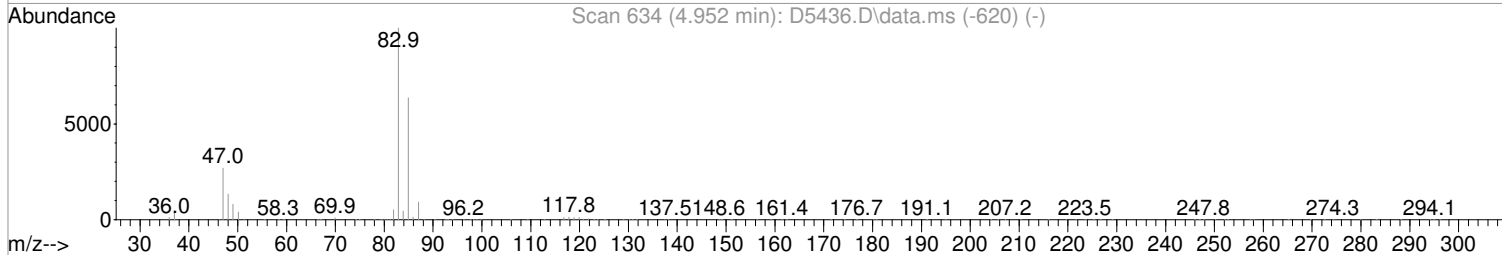
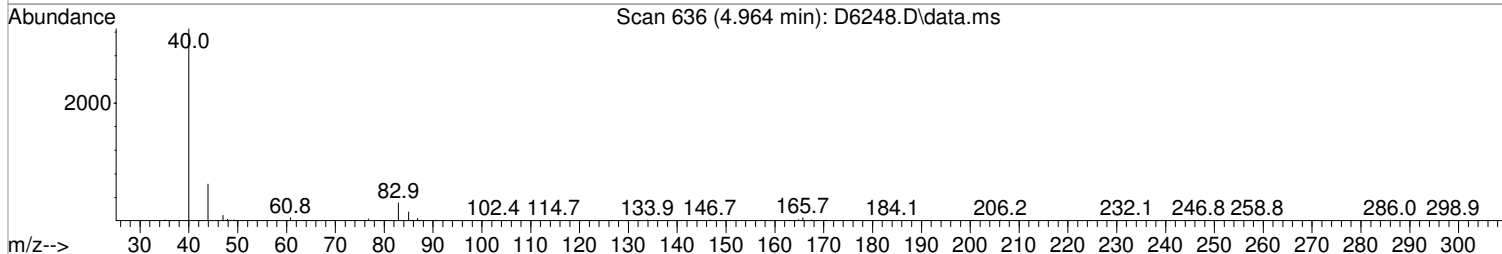
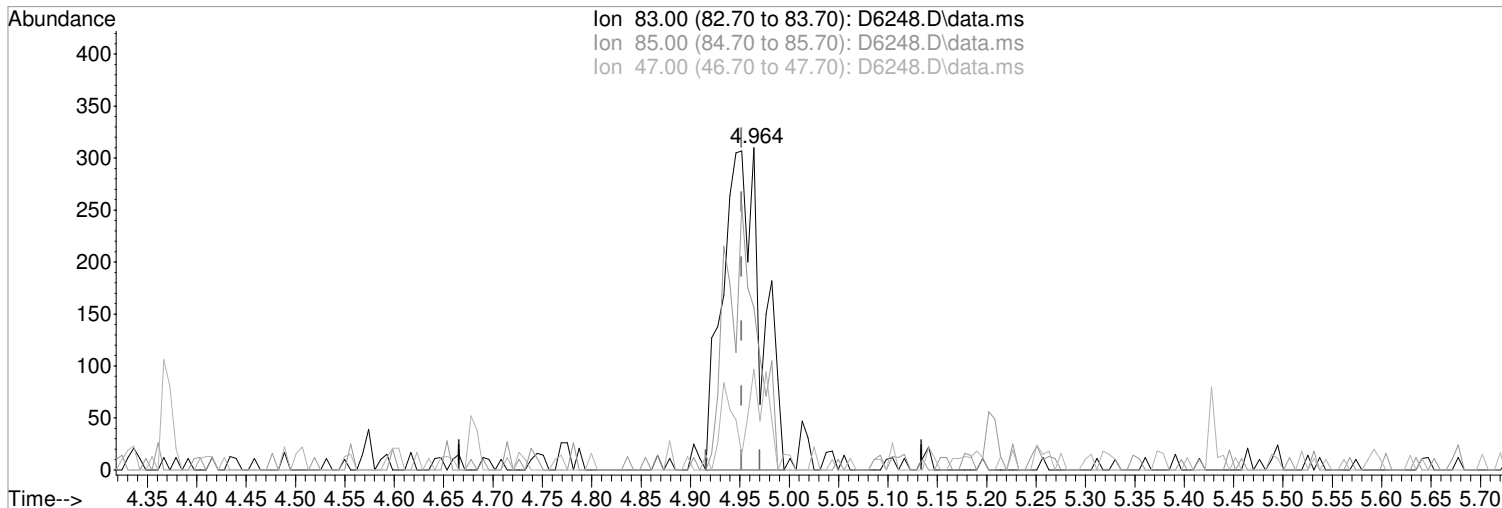
#71
 Tetrachloroethene
 Concen: 0.87 ug/L
 RT: 8.976 min Scan# 1294
 Delta R.T. -0.006 min
 Lab File: D6247.D
 Acq: 28 Sep 2018 12:18 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 164 | 100 | | |
| 166 | 100.2 | 106.8 | 146.8# |
| 129 | 53.5 | 71.9 | 111.9# |
| 131 | 77.3 | 64.6 | 104.6 |



Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6248.D
Acq On : 28 Sep 2018 12:40 pm
Operator : D.LIPANI
Sample : R1809120-003|1.0 Inst : MSVOA10
Misc : Verina 6646 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 12:54:42 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6248.D\data.ms

(39) Chloroform (P)

4.964min (+0.012) 0.25 ug/L m

response 842

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 50.32 |
| 47.00 | 26.90 | 31.29 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

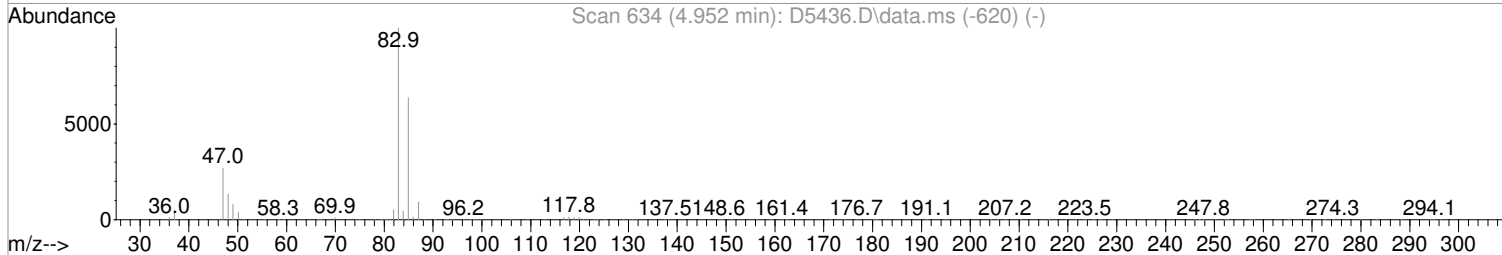
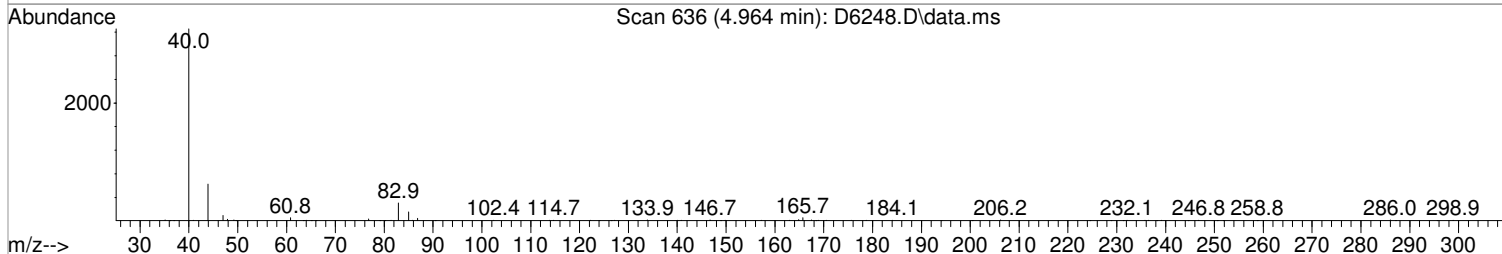
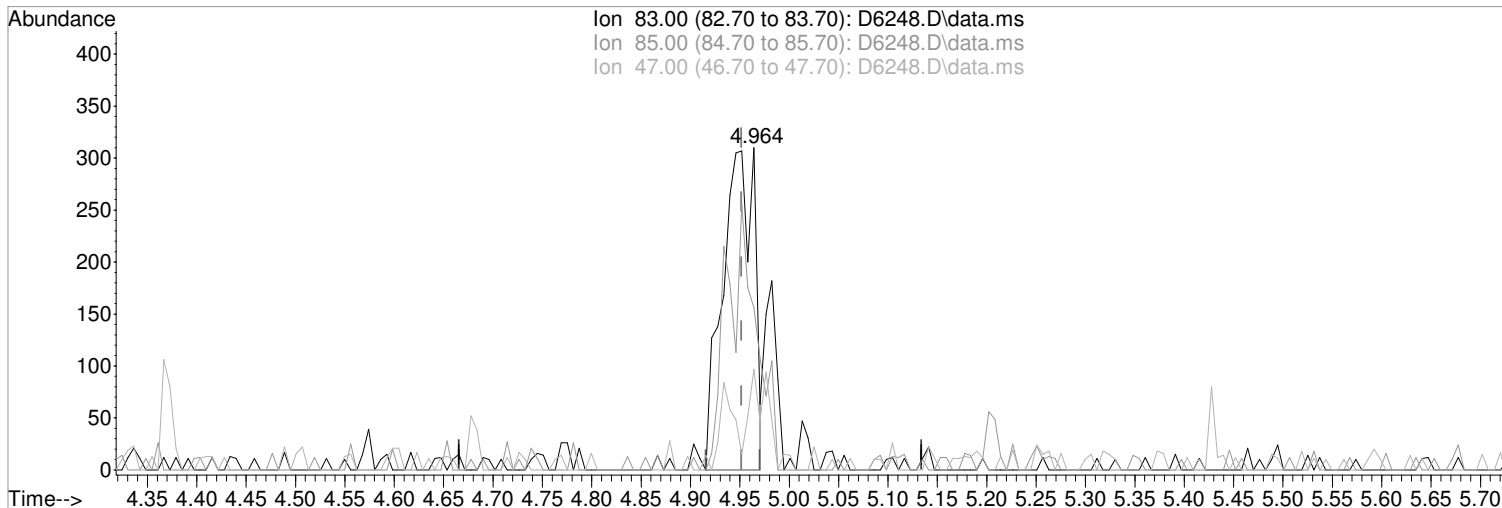
After

Poor integration.

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6248.D
Acq On : 28 Sep 2018 12:40 pm
Operator : D.LIPANI
Sample : R1809120-003|1.0
Misc : Verina 6646 T4
ALS Vial : 9 Sample Multiplier: 1
Inst : MSVOA10

Quant Time: Sep 28 12:54:42 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6248.D\data.ms

(39) Chloroform (P)
4.964min (+0.012) 0.20 ug/L
response 688

Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 50.32 |
| 47.00 | 26.90 | 31.29 |
| 0.00 | 0.00 | 0.00 |

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6248.D
 Acq On : 28 Sep 2018 12:40 pm
 Operator : D.LIPANI
 Sample : R1809120-003|1.0 Inst : MSVOA10
 Misc : Verina 6646 T4
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 15:08:06 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

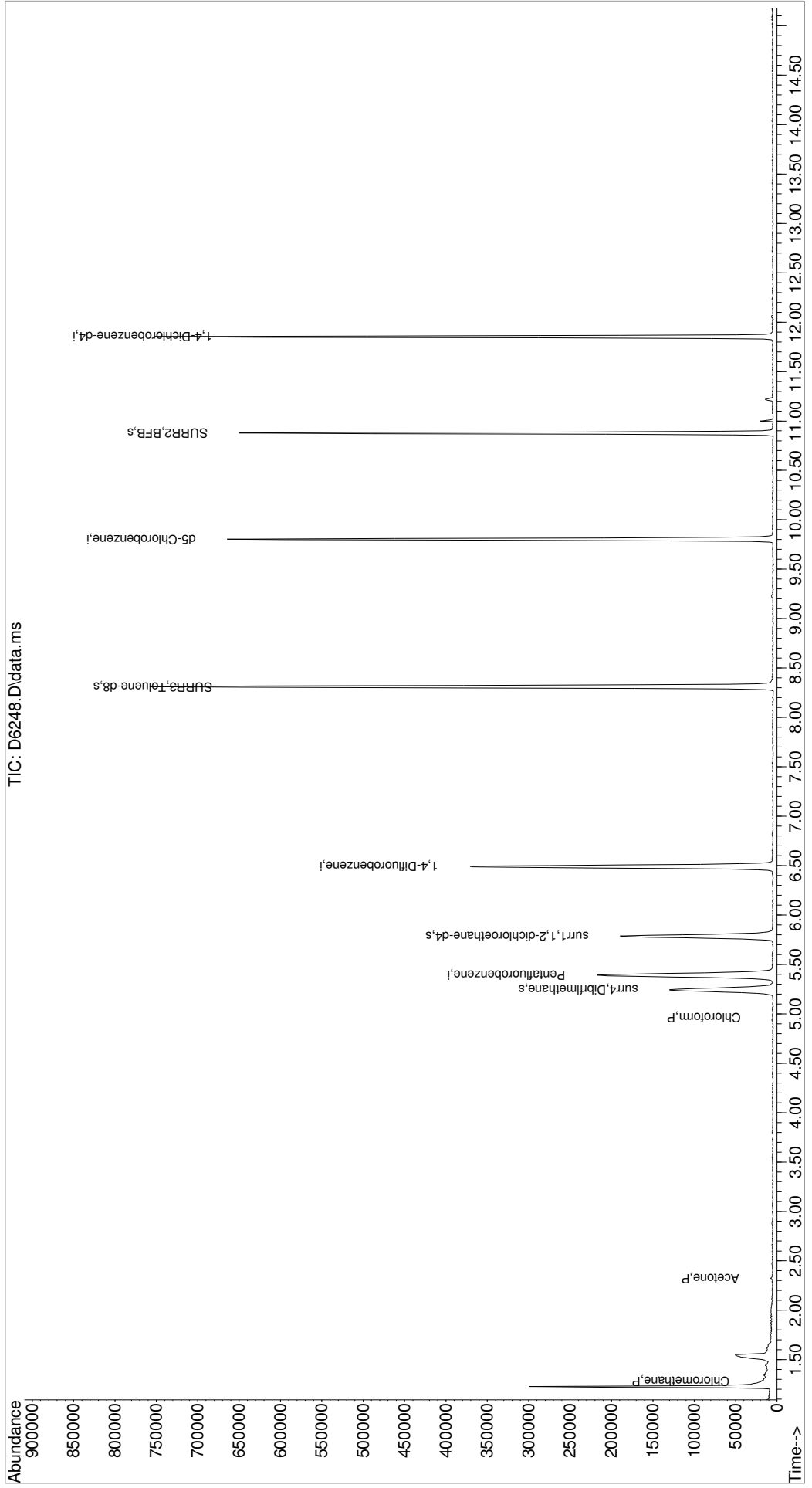
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|-----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 190419 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.494 | 114 | 297921 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 263979 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 132150 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 100985 | 50.30 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 100.60% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 149451 | 56.60 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 113.20% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 421427 | 51.77 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 103.54% | |
| 69) SURR2,BFB | 10.878 | 95 | 148646 | 47.52 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 95.04% | |
| Target Compounds | | | | | | |
| 3) Chloromethane | 1.282 | 50 | 642 | 0.23 | ug/L | Qvalue 84 |
| 5) Bromomethane | 1.599 | 94 | 684 | Below Cal | # | 27 |
| 15) Acetone | 2.325 | 43 | 1988 | 1.77 | ug/L | 74 |
| 39) Chloroform | 4.964 | 83 | 842m | 0.25 | ug/L | |

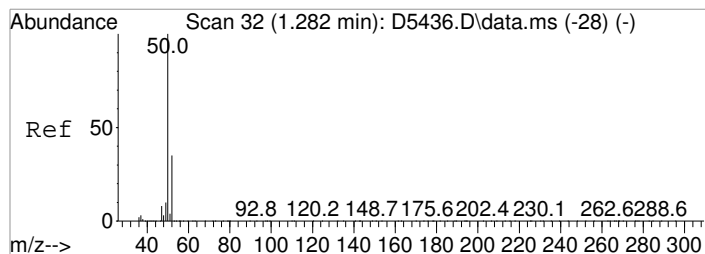
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6248.D
Acq On : 28 Sep 2018 12:40 pm
Operator : D.LIPANI
Sample : R1809120-003|1.0
Misc : Verina 6646 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

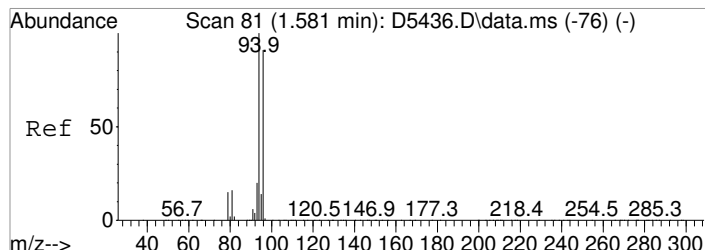
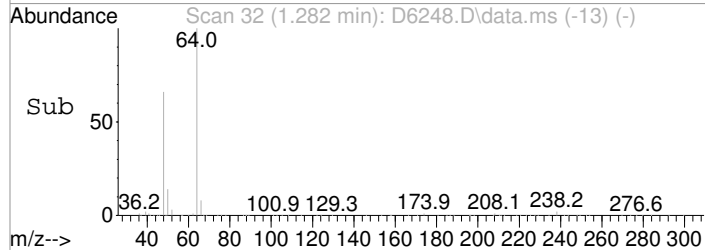
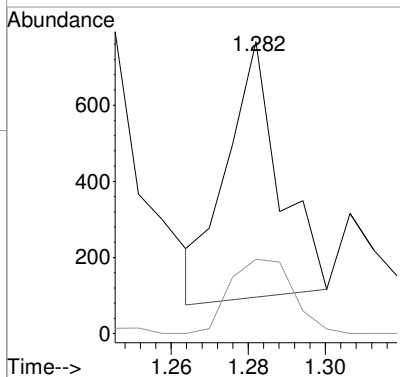
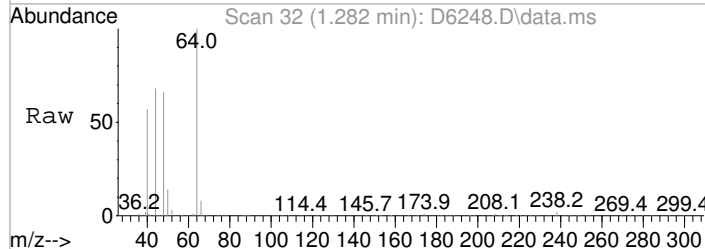
Quant Time: Oct 01 15:08:06 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





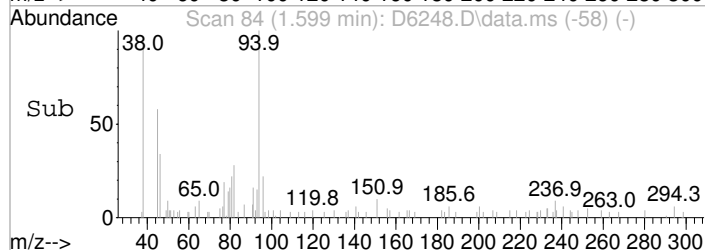
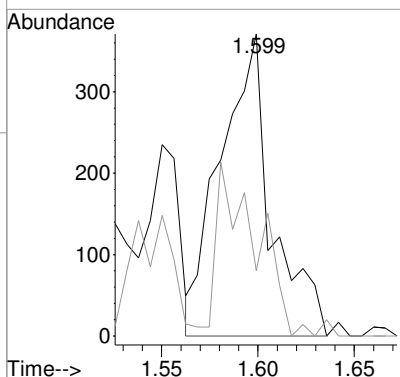
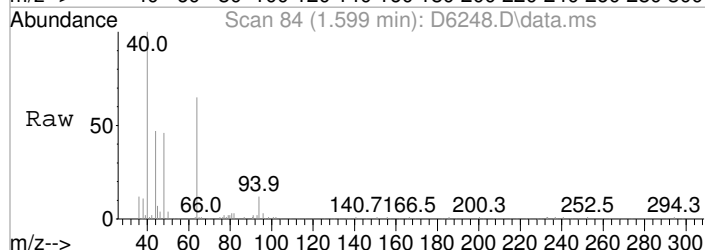
#3
 Chloromethane
 Concen: 0.23 ug/L
 RT: 1.282 min Scan# 32
 Delta R.T. 0.000 min
 Lab File: D6248.D
 Acq: 28 Sep 2018 12:40 pm

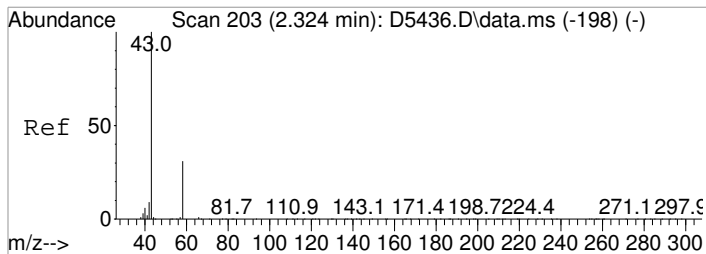
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 50 | 100 | | |
| 52 | 25.4 | 15.0 | 55.0 |



#5
 Bromomethane
 Concen: Below Cal
 RT: 1.599 min Scan# 84
 Delta R.T. 0.018 min
 Lab File: D6248.D
 Acq: 28 Sep 2018 12:40 pm

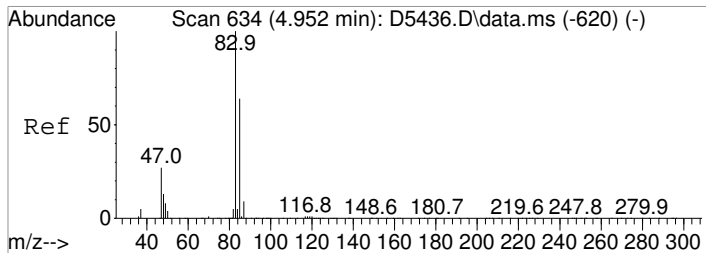
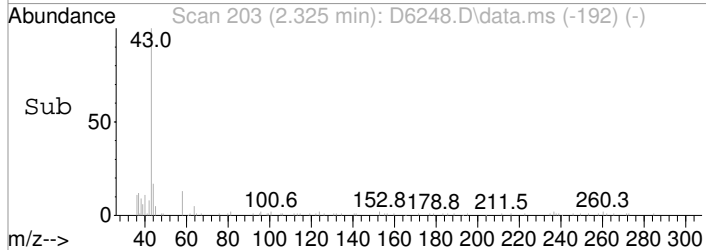
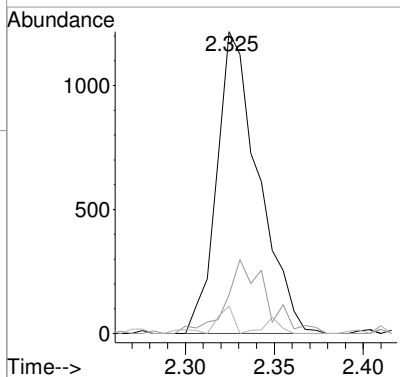
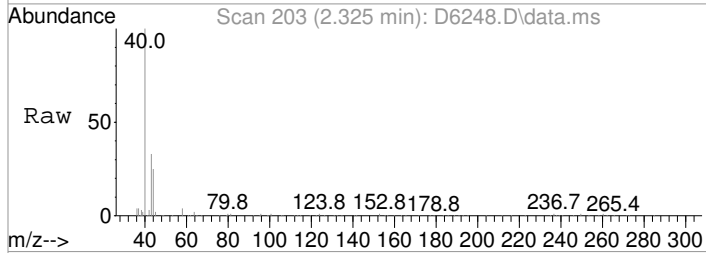
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 94 | 100 | | |
| 96 | 21.6 | 71.1 | 111.1# |





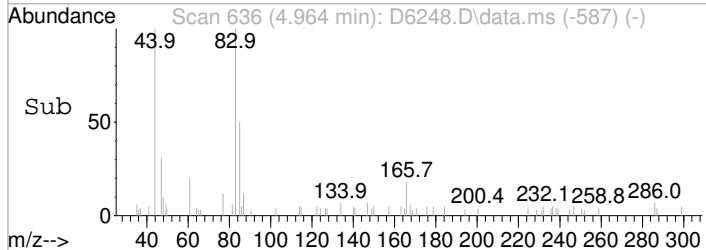
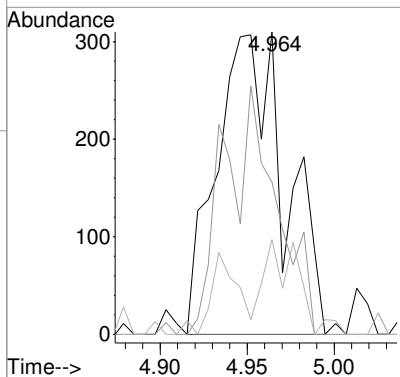
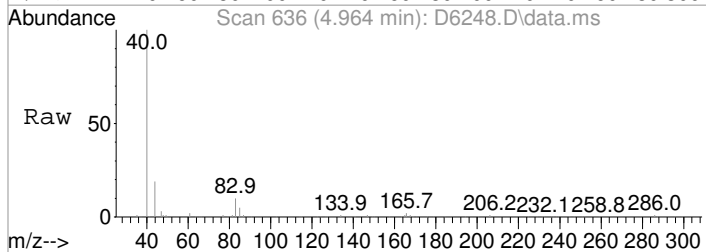
#15
 Acetone
 Concen: 1.77 ug/L
 RT: 2.325 min Scan# 203
 Delta R.T. -0.006 min
 Lab File: D6248.D
 Acq: 28 Sep 2018 12:40 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 12.9 | 11.2 | 51.2 |
| 42 | 9.1 | 0.0 | 28.6 |



#39
 Chloroform
 Concen: 0.25 ug/L m
 RT: 4.964 min Scan# 636
 Delta R.T. 0.012 min
 Lab File: D6248.D
 Acq: 28 Sep 2018 12:40 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 83 | 100 | | |
| 85 | 50.3 | 43.7 | 83.7 |
| 47 | 31.3 | 6.9 | 46.9 |



Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6249.D
 Acq On : 28 Sep 2018 1:01 pm
 Operator : D.LIPANI
 Sample : R1809120-004|1.0 Inst : MSVOA10
 Misc : Verina 6646 T4
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 15:26:03 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 184974 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 292035 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 257763 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 130009 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 98387 | 49.99 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 99.98% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 145523 | 56.23 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 112.46% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 407661 | 51.09 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 102.18% | |
| 69) SURR2,BFB | 10.878 | 95 | 144904 | 47.25 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 94.50% | |
| Target Compounds | | | | | | |
| 3) Chloromethane | 1.282 | 50 | 584 | 0.22 | ug/L | 72 |
| 15) Acetone | 2.331 | 43 | 2079 | 1.91 | ug/L | 81 |
| 16) 2-Propanol | 2.465 | 45 | 2342 | 11.13 | ug/L | 93 |

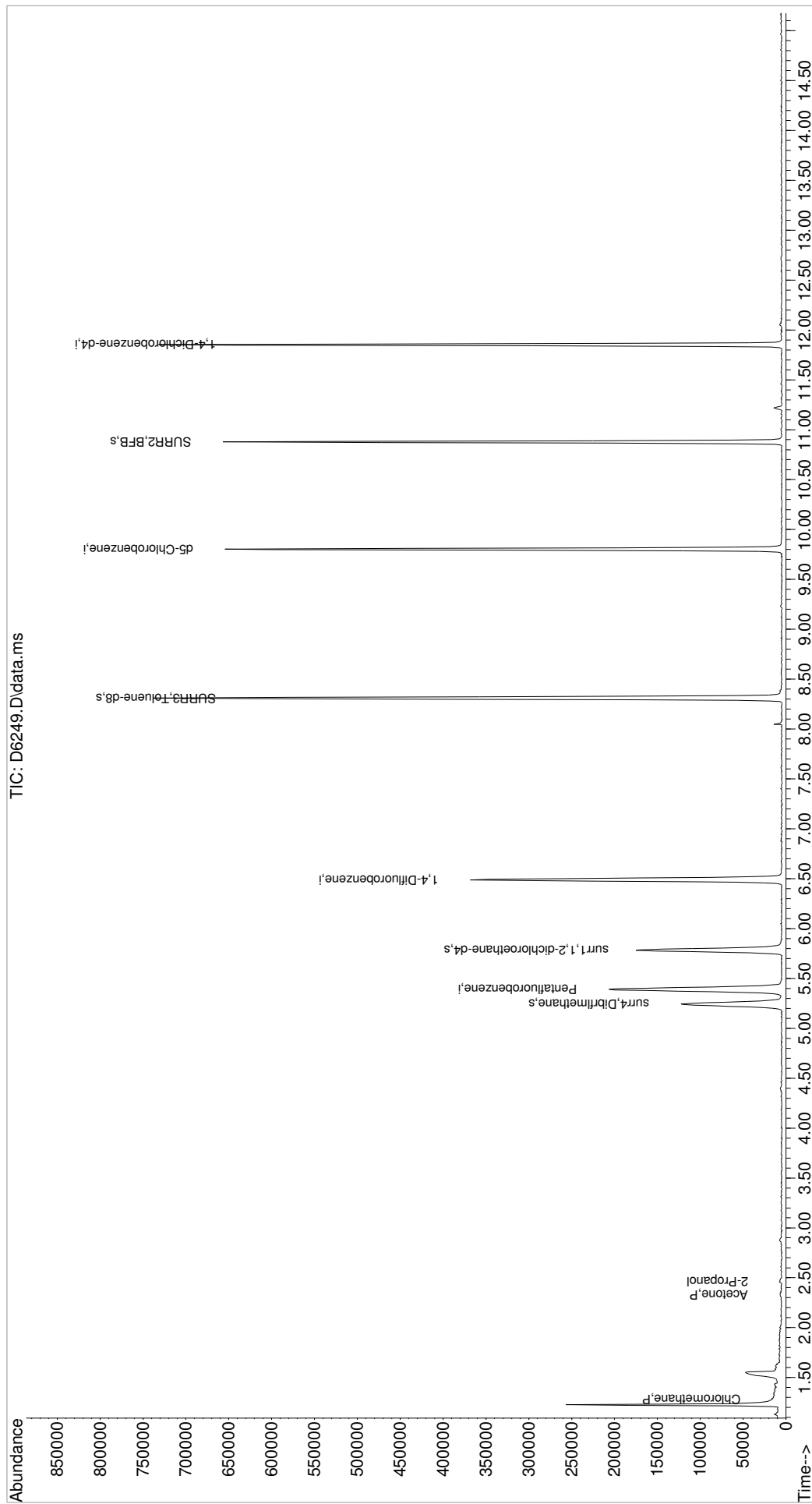
(#) = qualifier out of range (m) = manual integration (+) = signals summed

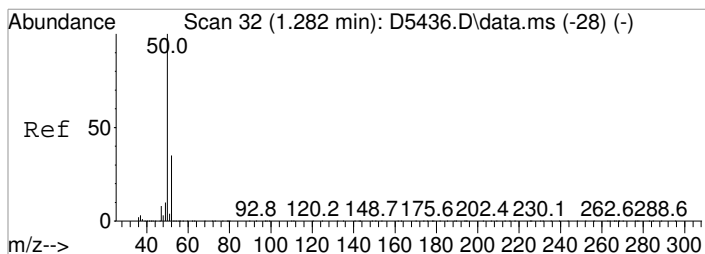
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6249.D
Acq On : 28 Sep 2018 1:01 pm
Operator : D.LIPANI
Sample : R1809120-004|1.0
Misc : Verina 6646 T4
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

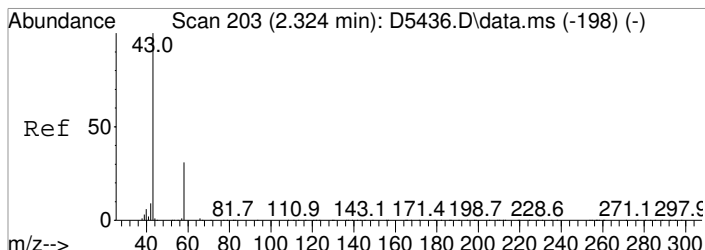
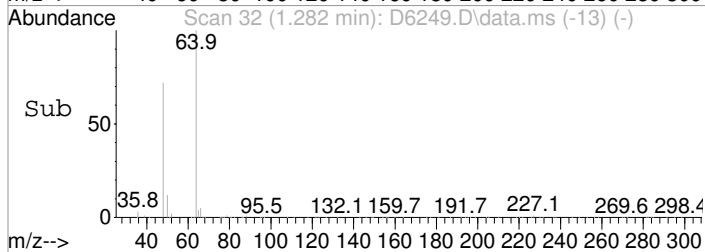
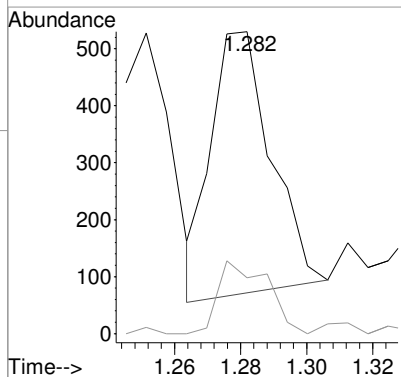
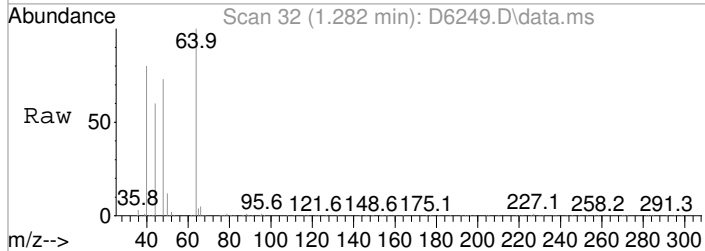
Quant Time: Oct 01 15:26:03 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





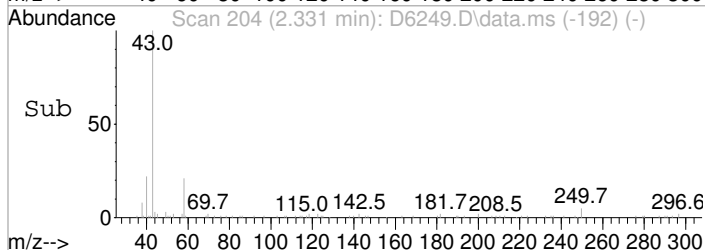
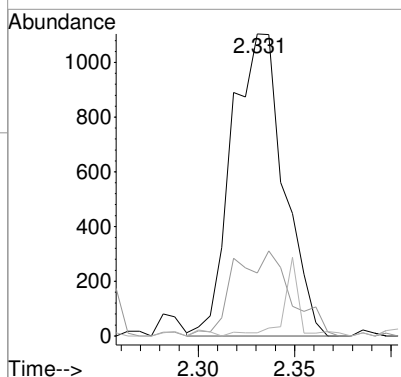
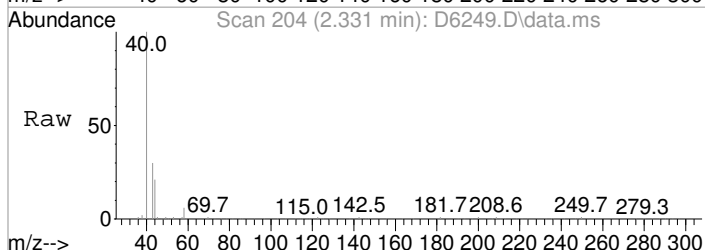
#3
 Chloromethane
 Concen: 0.22 ug/L
 RT: 1.282 min Scan# 32
 Delta R.T. 0.000 min
 Lab File: D6249.D
 Acq: 28 Sep 2018 1:01 pm

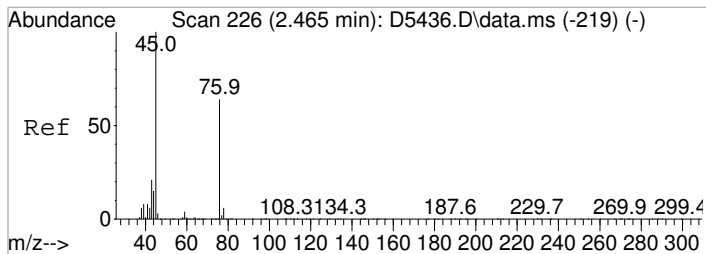
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 50 | 100 | | |
| 52 | 18.5 | 15.0 | 55.0 |



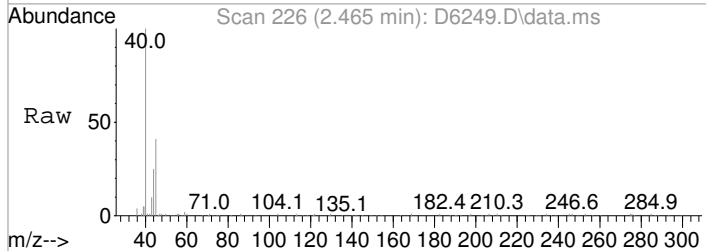
#15
 Acetone
 Concen: 1.91 ug/L
 RT: 2.331 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: D6249.D
 Acq: 28 Sep 2018 1:01 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 20.8 | 11.2 | 51.2 |
| 42 | 1.1 | 0.0 | 28.6 |

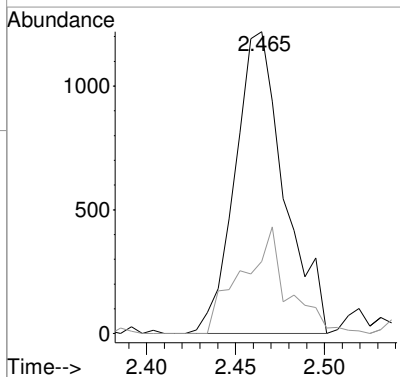
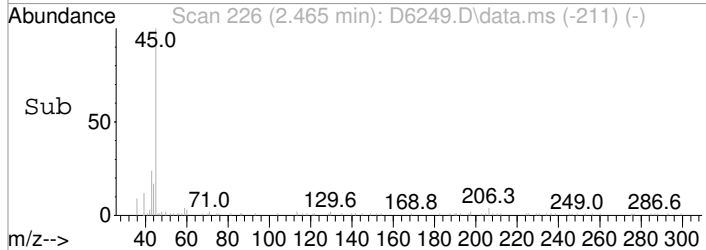




#16
2-Propanol
Concen: 11.13 ug/L
RT: 2.465 min Scan# 226
Delta R.T. -0.018 min
Lab File: D6249.D
Acq: 28 Sep 2018 1:01 pm



Tgt Ion: 45 Resp: 2342
Ion Ratio Lower Upper
45 100
43 23.9 0.8 40.8



Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6250.D
 Acq On : 28 Sep 2018 1:23 pm
 Operator : D.LIPANI
 Sample : R1809120-007|1.0 Inst : MSVOA10
 Misc : Verina 6646 T4
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 01 15:30:19 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

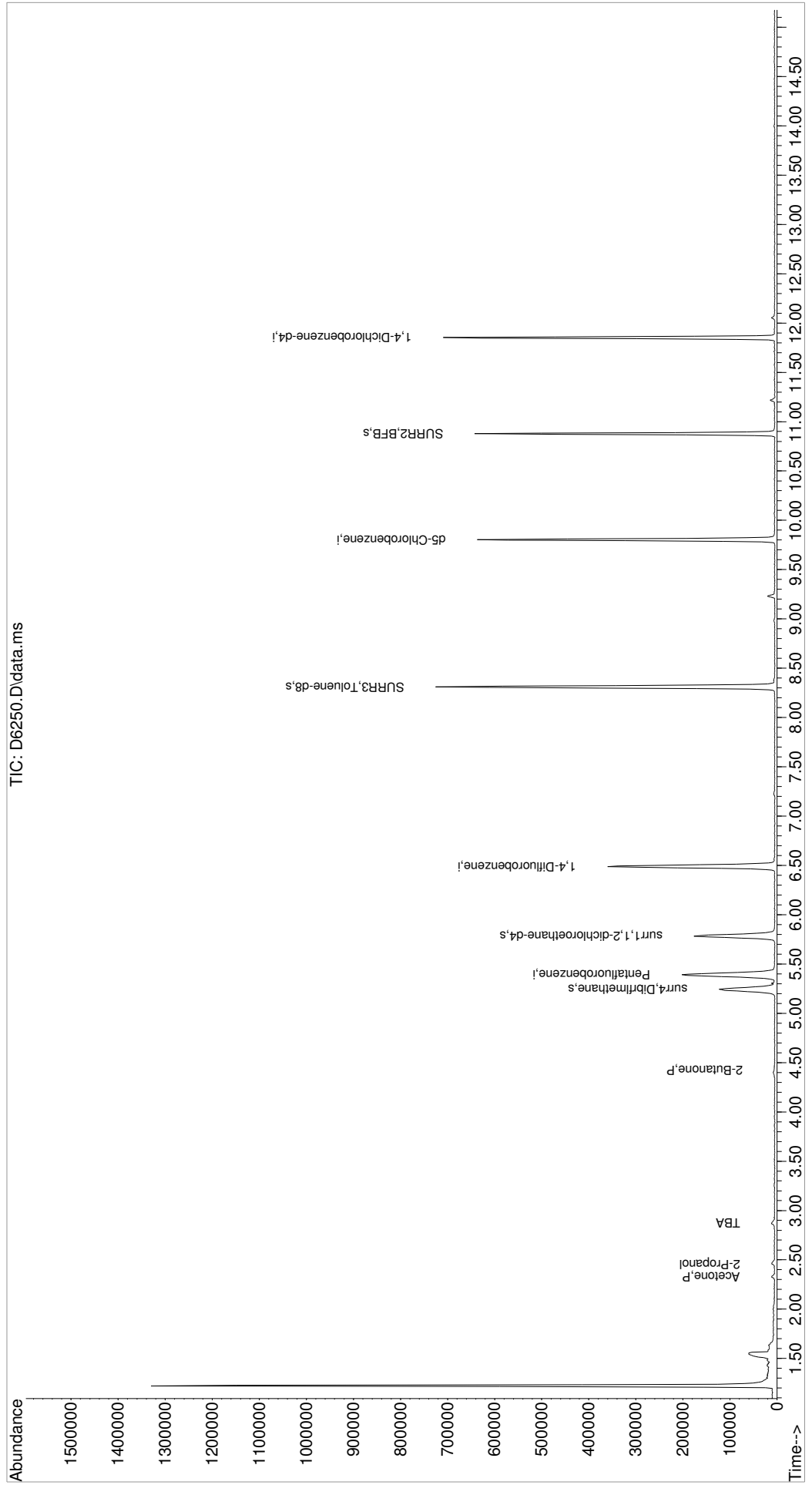
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 177736 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 280932 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 248941 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 131180 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 95581 | 50.49 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 100.98% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 141569 | 56.86 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 113.72% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 394936 | 51.45 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 102.90% | |
| 69) SURR2,BFB | 10.878 | 95 | 142462 | 48.29 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 96.58% | |
| Target Compounds | | | | | | |
| 15) Acetone | 2.330 | 43 | 6097 | 5.83 | ug/L | 95 |
| 16) 2-Propanol | 2.458 | 45 | 7443 | 36.82 | ug/L | 96 |
| 23) TBA | 2.879 | 59 | 4048 | 13.37 | ug/L | 64 |
| 34) 2-Butanone | 4.428 | 43 | 1570 | 1.11 | ug/L | 80 |

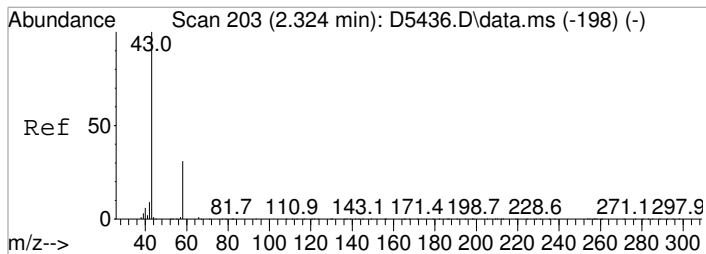
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6250.D
 Acq On : 28 Sep 2018 1:23 pm
 Operator : D.LIPANI
 Sample : R1809120-007|1.0
 Misc : Verina 6646 T4
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA10

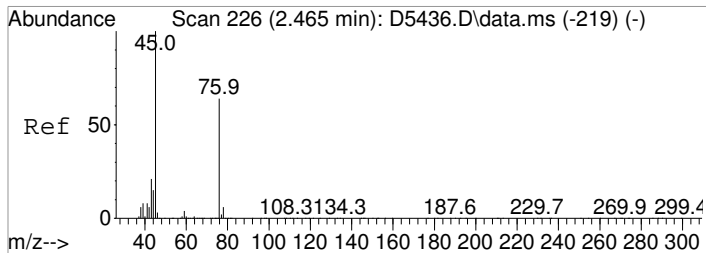
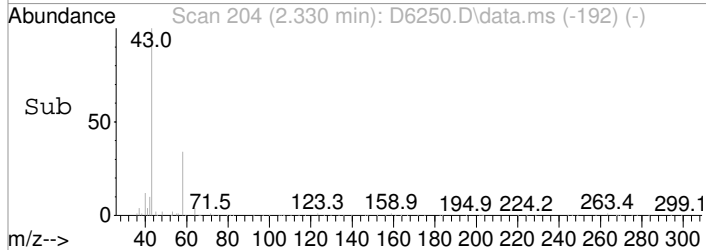
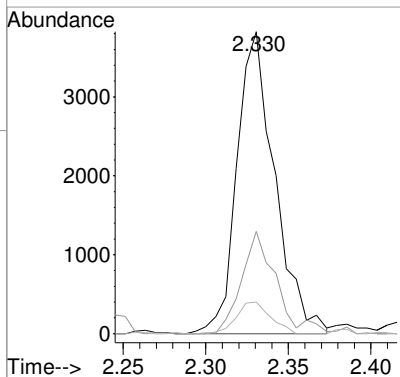
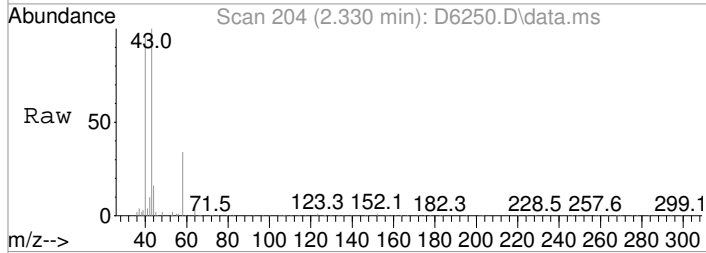
Quant Time: Oct 01 15:30:19 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration





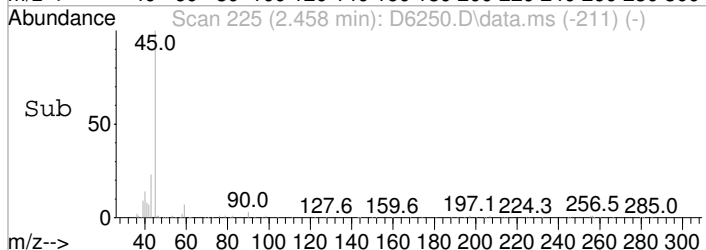
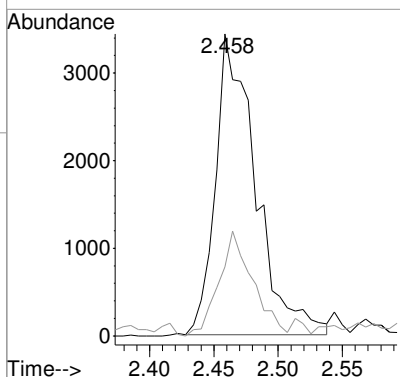
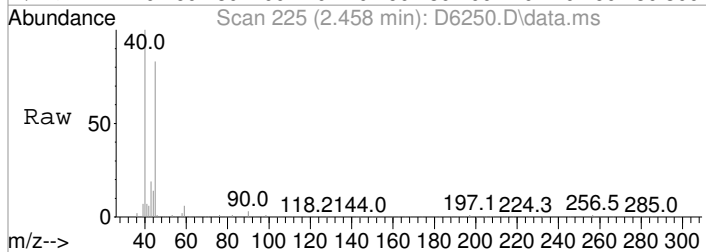
#15
 Acetone
 Concen: 5.83 ug/L
 RT: 2.330 min Scan# 204
 Delta R.T. -0.000 min
 Lab File: D6250.D
 Acq: 28 Sep 2018 1:23 pm

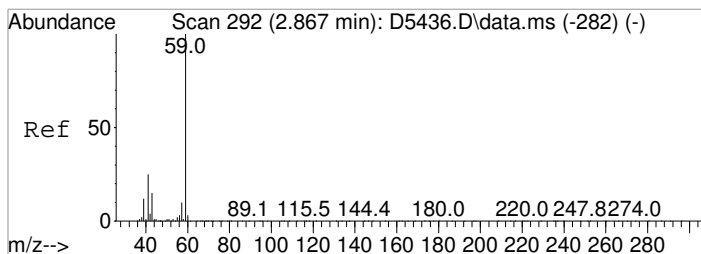
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 33.9 | 11.2 | 51.2 |
| 42 | 10.5 | 0.0 | 28.6 |



#16
 2-Propanol
 Concen: 36.82 ug/L
 RT: 2.458 min Scan# 225
 Delta R.T. -0.024 min
 Lab File: D6250.D
 Acq: 28 Sep 2018 1:23 pm

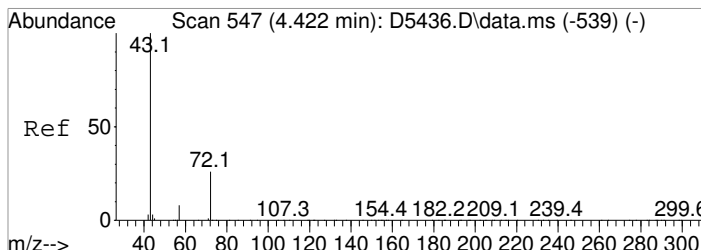
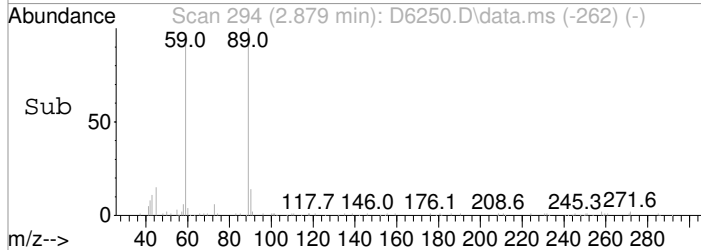
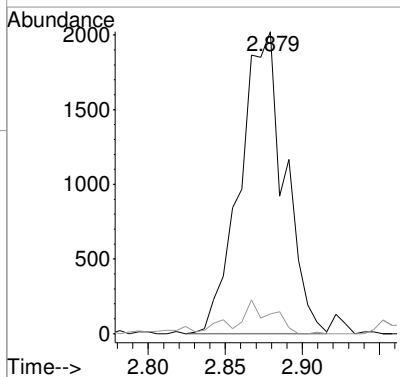
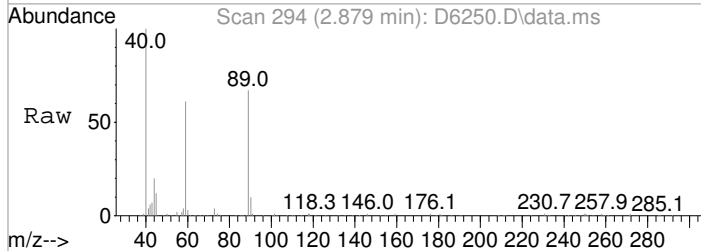
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 100 | | |
| 43 | 22.9 | 0.8 | 40.8 |





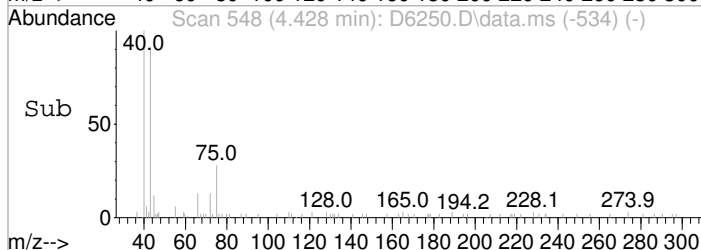
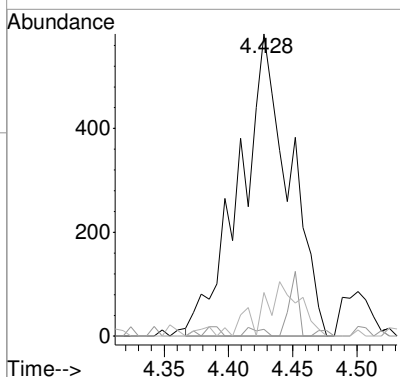
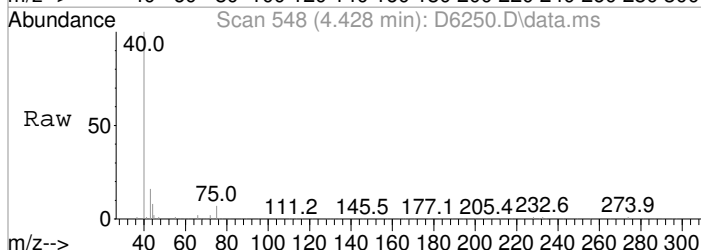
#23
 TBA
 Concen: 13.37 ug/L
 RT: 2.879 min Scan# 294
 Delta R.T. 0.006 min
 Lab File: D6250.D
 Acq: 28 Sep 2018 1:23 pm

Tgt Ion: 59 Resp: 4048
 Ion Ratio Lower Upper
 59 100
 41 6.6 4.8 44.8



#34
 2-Butanone
 Concen: 1.11 ug/L
 RT: 4.428 min Scan# 548
 Delta R.T. 0.012 min
 Lab File: D6250.D
 Acq: 28 Sep 2018 1:23 pm

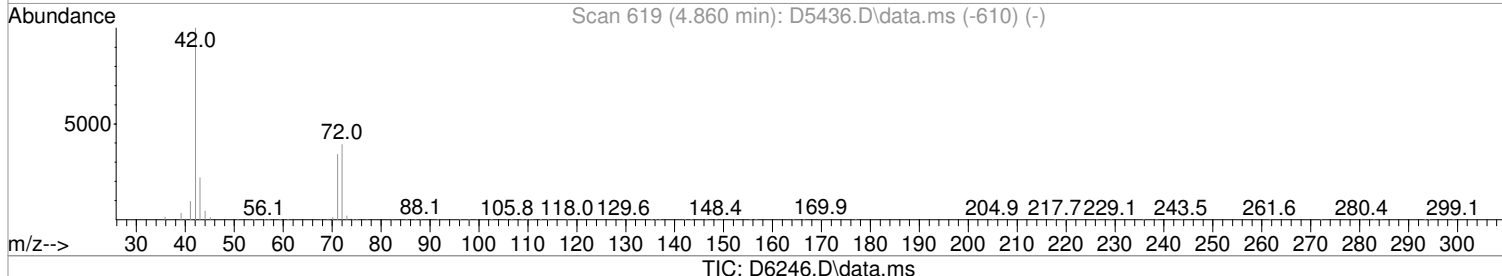
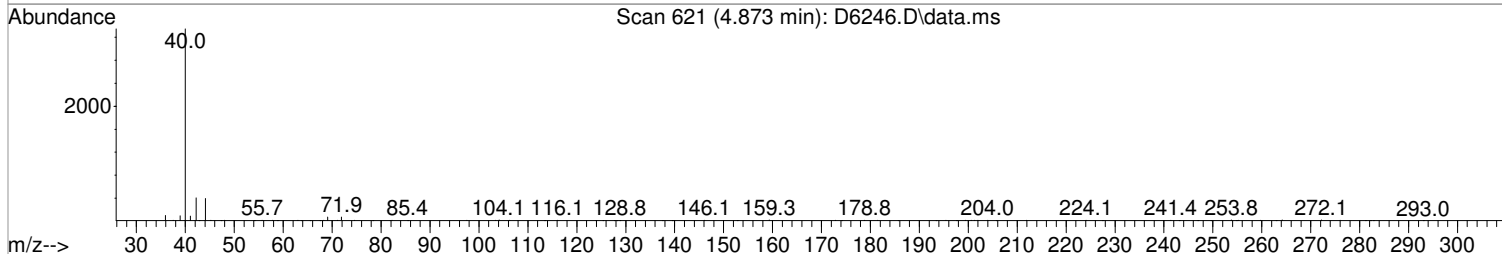
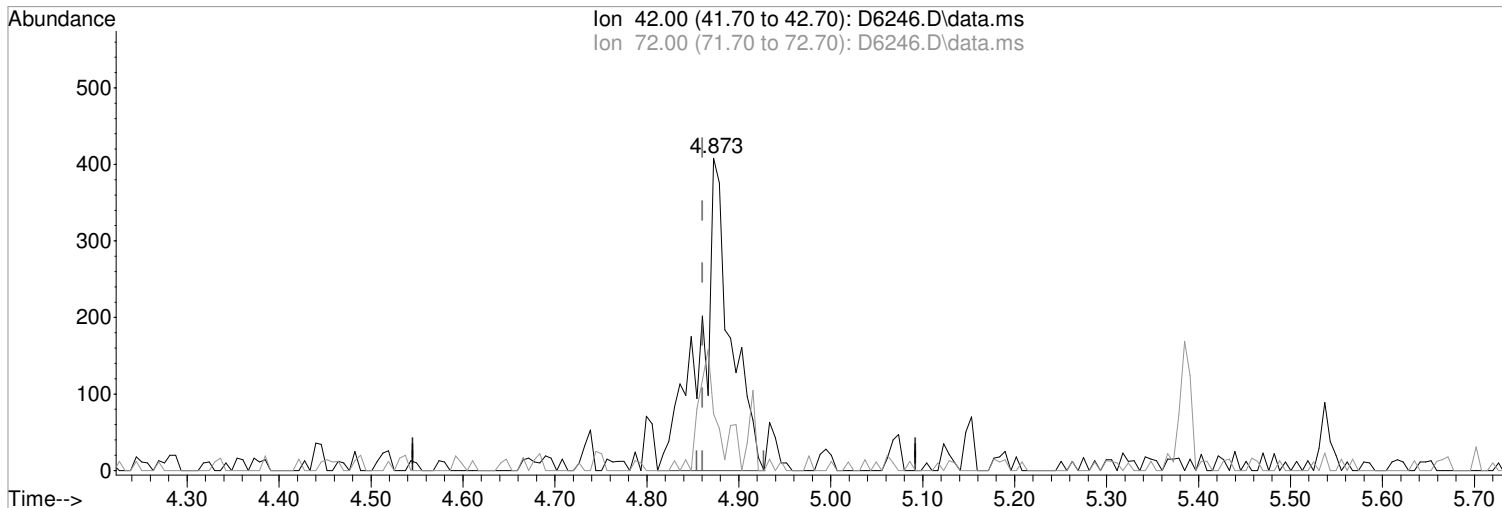
Tgt Ion: 43 Resp: 1570
 Ion Ratio Lower Upper
 43 100
 57 2.2 0.0 27.8
 72 14.4 5.1 45.1



Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6246.D
Acq On : 28 Sep 2018 11:56 am
Operator : D.LIPANI
Sample : R1809120-011|1.0
Misc : Verina 6646 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 12:11:03 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(38) Tetrahydrofuran
4.873min (+0.012) 0.98 ug/L m
response 927

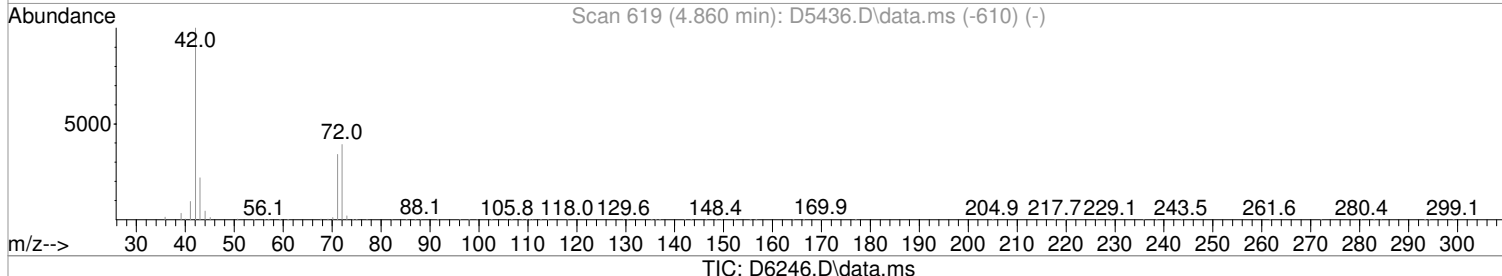
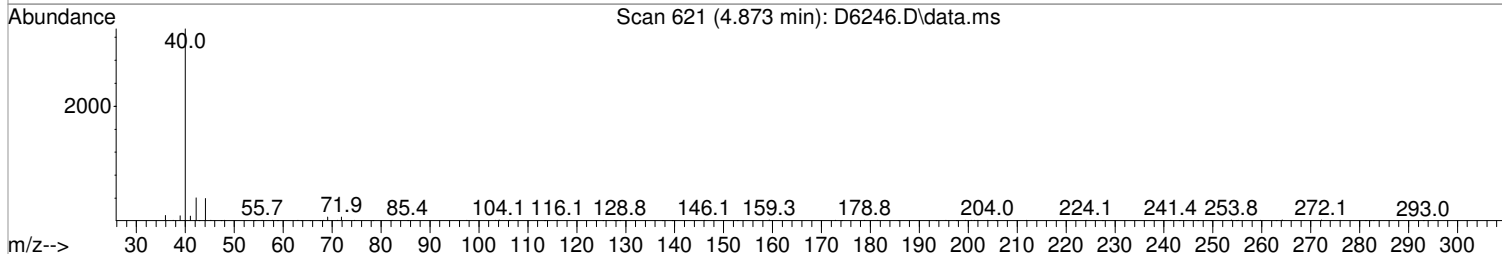
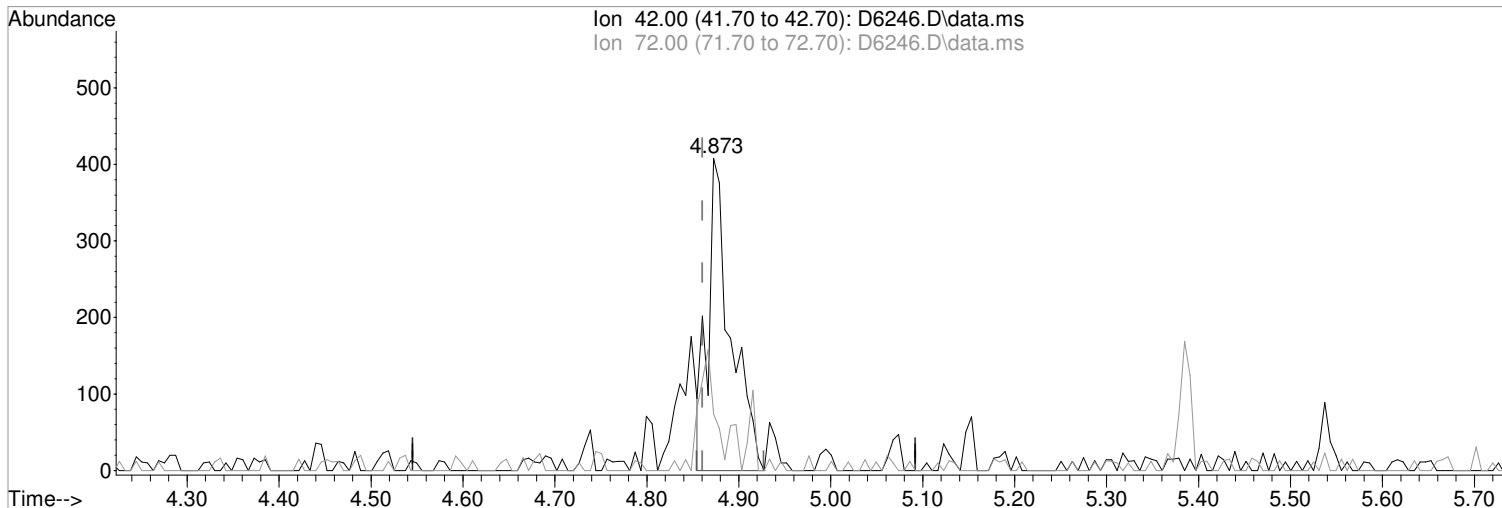
Manual Integration:
After
Poor integration.

| Ion | Exp% | Act% |
|-------|-------|--------|
| 42.00 | 100 | 100 |
| 72.00 | 38.80 | 18.14# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6246.D
Acq On : 28 Sep 2018 11:56 am
Operator : D.LIPANI
Sample : R1809120-011|1.0
Misc : Verina 6646 T4
ALS Vial : 9 Sample Multiplier: 1
Inst : MSVOA10

Quant Time: Sep 28 12:11:03 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(38) Tetrahydrofuran
4.873min (+0.012) 0.74 ug/L
response 699

Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|-------|--------|
| 42.00 | 100 | 100 |
| 72.00 | 38.80 | 18.14# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6246.D
 Acq On : 28 Sep 2018 11:56 am
 Operator : D.LIPANI
 Sample : R1809120-011|1.0 Inst : MSVOA10
 Misc : Verina 6646 T4
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 14:58:02 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|---------|-------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 192548 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 304410 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 262112 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 131866 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 101368 | 49.41 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 98.82% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 147442 | 54.65 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 109.30% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 408714 | 49.14 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.28% | |
| 69) SURR2,BFB | 10.878 | 95 | 147074 | 46.01 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 92.02% | |
| Target Compounds | | | | | | |
| 3) Chloromethane | 1.282 | 50 | 600 | 0.21 | ug/L | Qvalue # 52 |
| 5) Bromomethane | 1.593 | 94 | 315 | Below | Cal | 95 |
| 15) Acetone | 2.324 | 43 | 2619 | 2.31 | ug/L | 80 |
| 16) 2-Propanol | 2.458 | 45 | 1348 | 6.15 | ug/L | 83 |
| 38) Tetrahydrofuran | 4.873 | 42 | 927m | 0.98 | ug/L | |

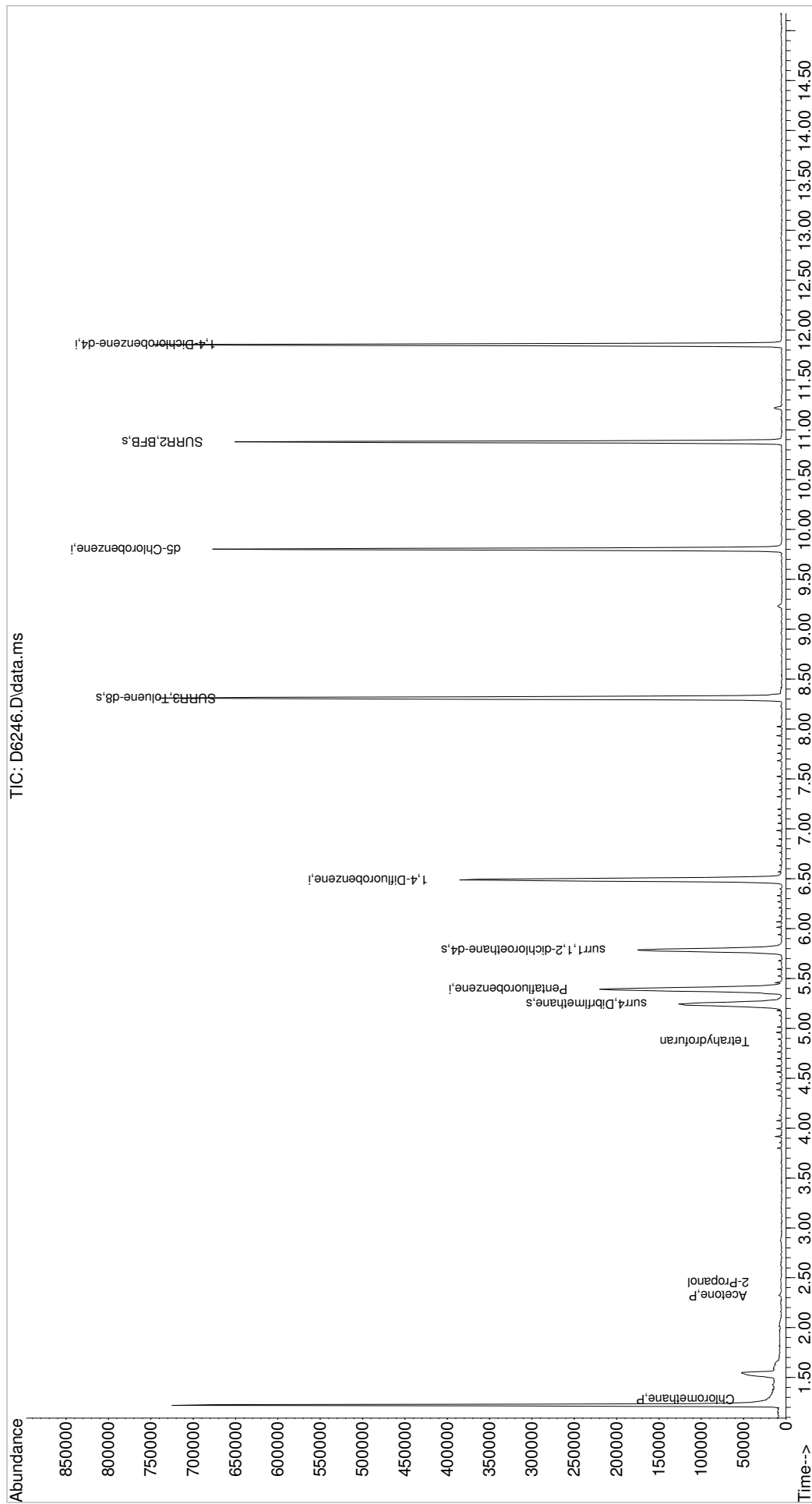
(#) = qualifier out of range (m) = manual integration (+) = signals summed

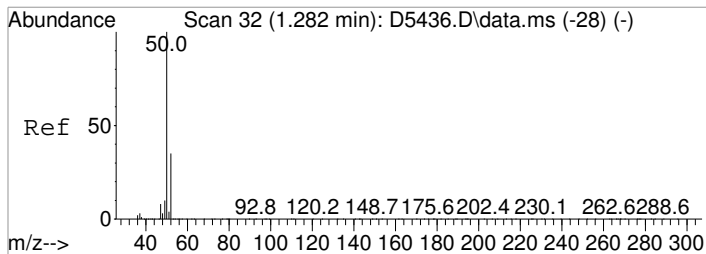
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6246.D
Acq On : 28 Sep 2018 11:56 am
Operator : D.LIPANI
Sample : R1809120-011|1.0
Misc : Verina 6646 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

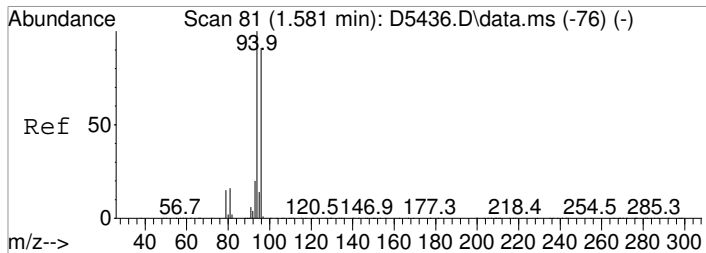
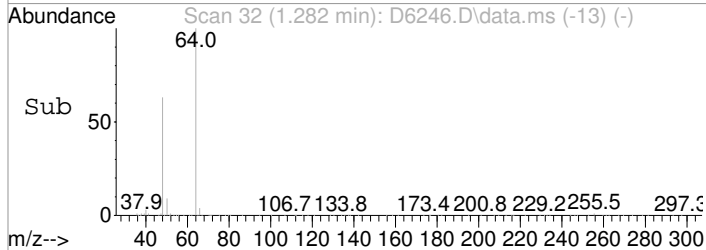
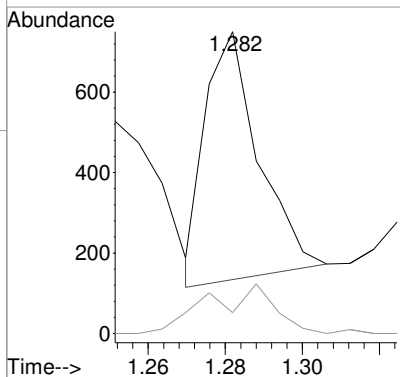
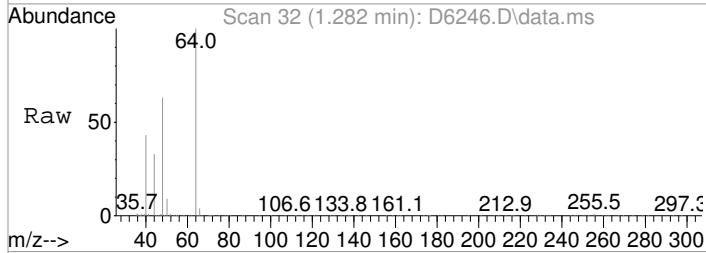
Quant Time: Oct 01 14:58:02 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





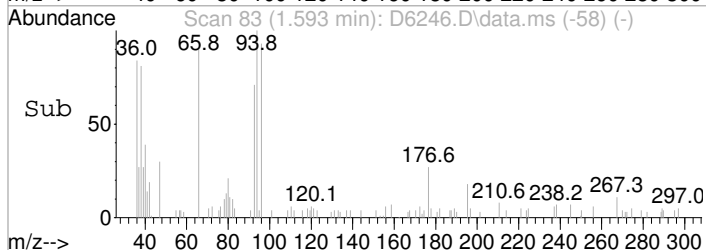
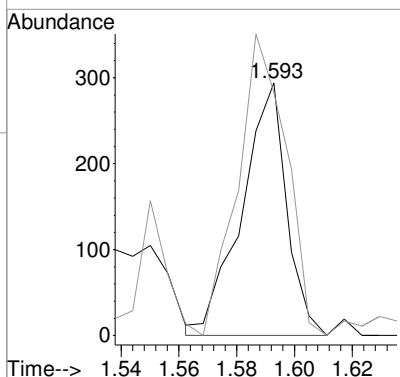
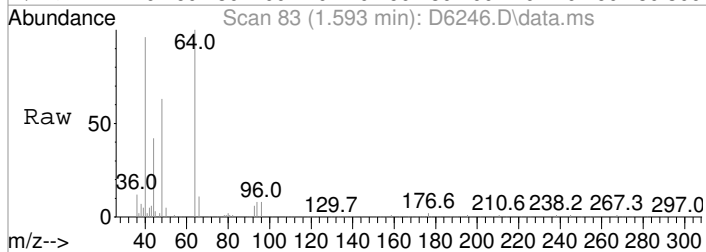
#3
 Chloromethane
 Concen: 0.21 ug/L
 RT: 1.282 min Scan# 32
 Delta R.T. -0.000 min
 Lab File: D6246.D
 Acq: 28 Sep 2018 11:56 am

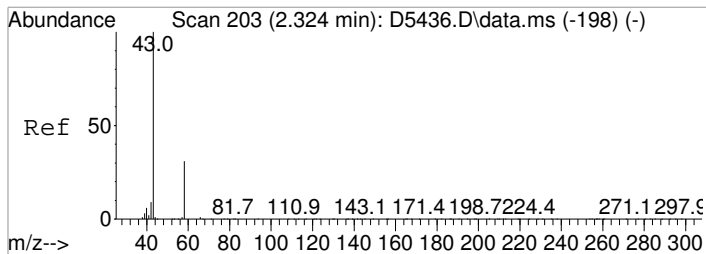
Tgt Ion: 50 Resp: 600
 Ion Ratio Lower Upper
 50 100
 52 6.9 15.0 55.0#



#5
 Bromomethane
 Concen: Below Cal
 RT: 1.593 min Scan# 83
 Delta R.T. 0.012 min
 Lab File: D6246.D
 Acq: 28 Sep 2018 11:56 am

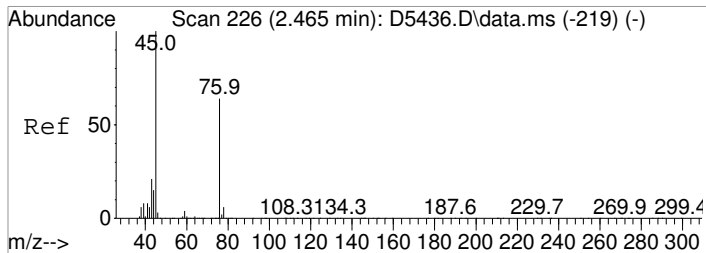
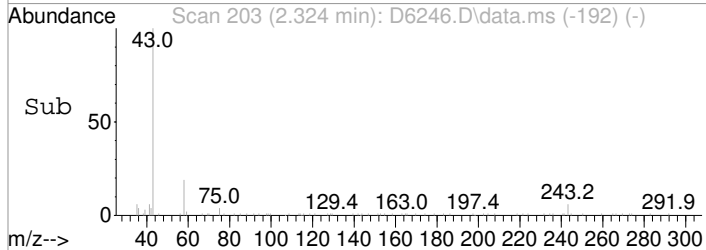
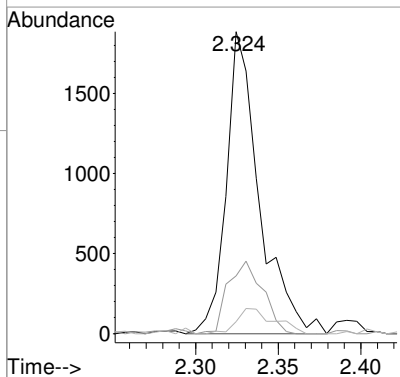
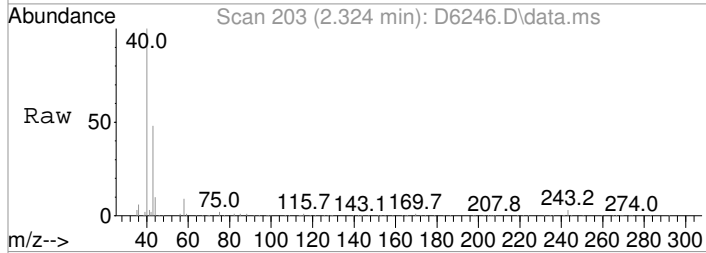
Tgt Ion: 94 Resp: 315
 Ion Ratio Lower Upper
 94 100
 96 96.3 71.1 111.1





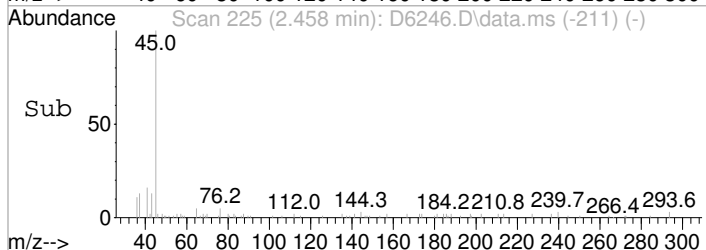
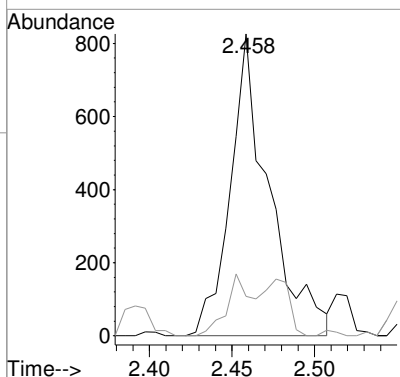
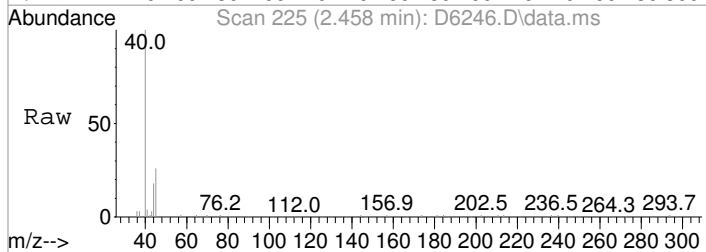
#15
 Acetone
 Concen: 2.31 ug/L
 RT: 2.324 min Scan# 203
 Delta R.T. -0.006 min
 Lab File: D6246.D
 Acq: 28 Sep 2018 11:56 am

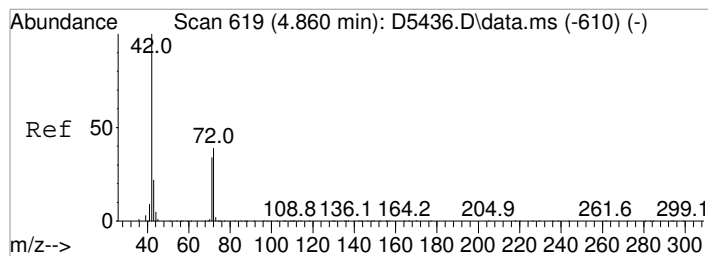
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 19.1 | 11.2 | 51.2 |
| 42 | 4.0 | 0.0 | 28.6 |



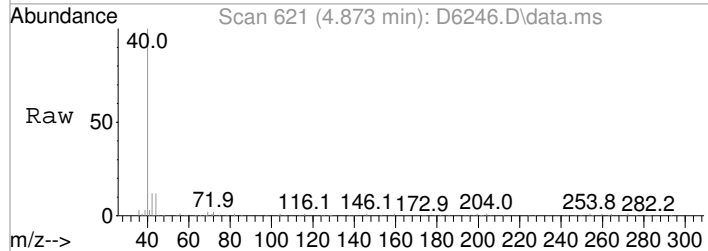
#16
 2-Propanol
 Concen: 6.15 ug/L
 RT: 2.458 min Scan# 225
 Delta R.T. -0.024 min
 Lab File: D6246.D
 Acq: 28 Sep 2018 11:56 am

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 100 | | |
| 43 | 13.1 | 0.8 | 40.8 |

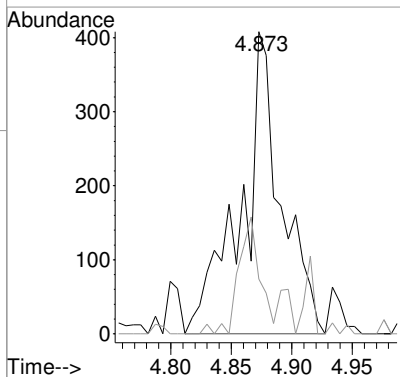
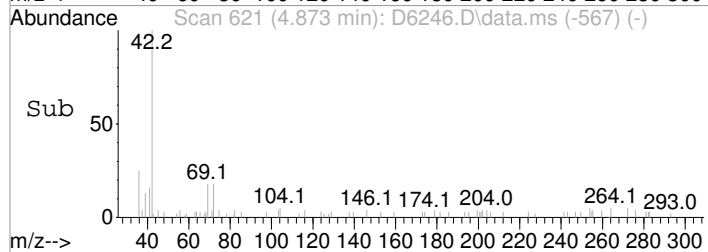




#38
Tetrahydrofuran
Concen: 0.98 ug/L m
RT: 4.873 min Scan# 621
Delta R.T. 0.012 min
Lab File: D6246.D
Acq: 28 Sep 2018 11:56 am



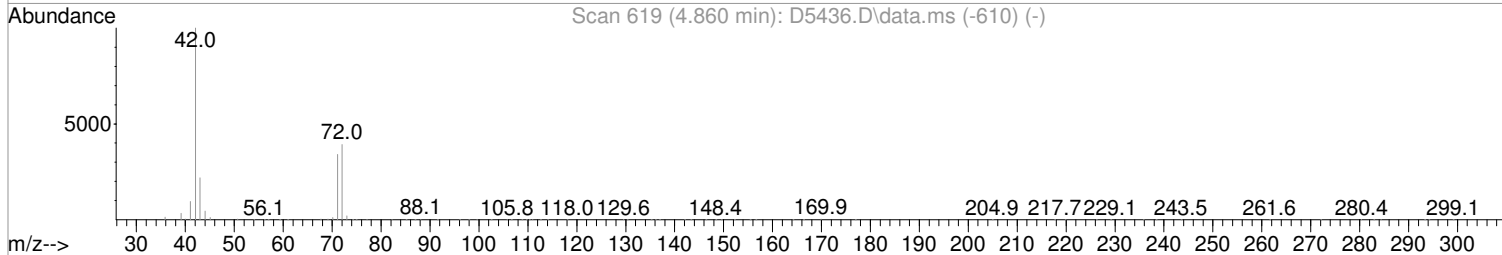
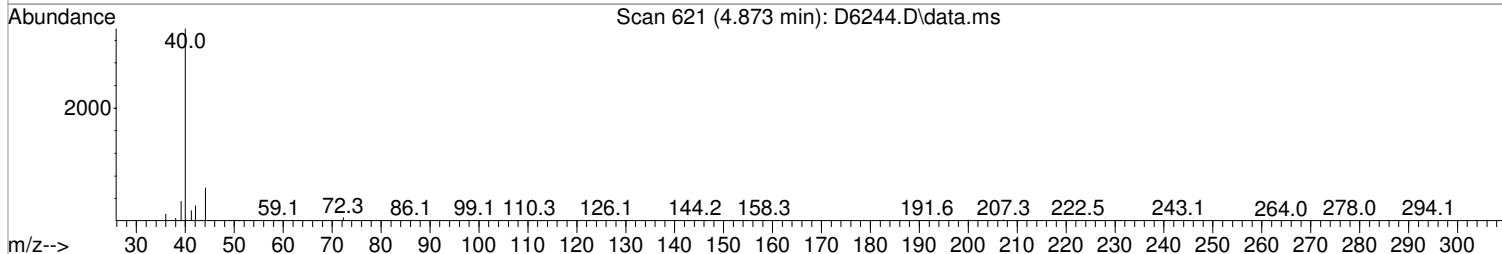
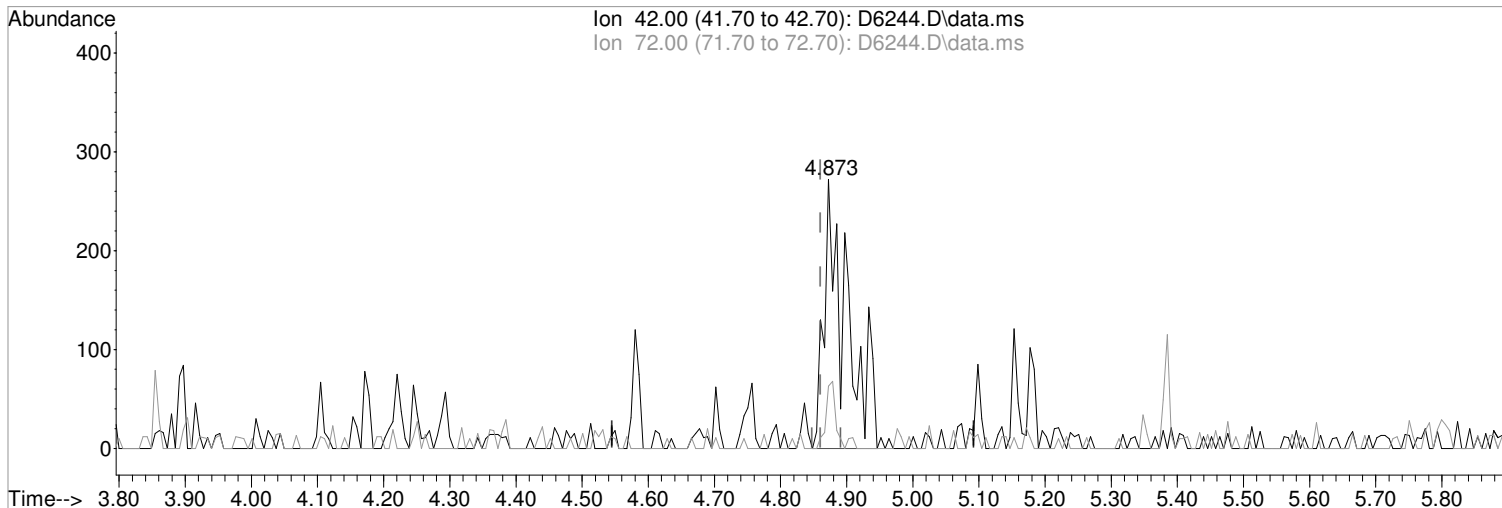
| Tgt Ion: | 42 | 72 | Resp: | 927 |
|-----------|-----|------|-------|-------|
| Ion Ratio | 100 | 18.1 | Lower | Upper |
| | | | 18.8 | 58.8# |



Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6244.D
Acq On : 28 Sep 2018 11:05 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 11:19:30 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6244.D\data.ms

(38) Tetrahydrofuran

4.873min (+0.012) 0.70 ug/L m

response 654

| Ion | Exp% | Act% |
|-------|-------|-------|
| 42.00 | 100 | 100 |
| 72.00 | 38.80 | 23.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

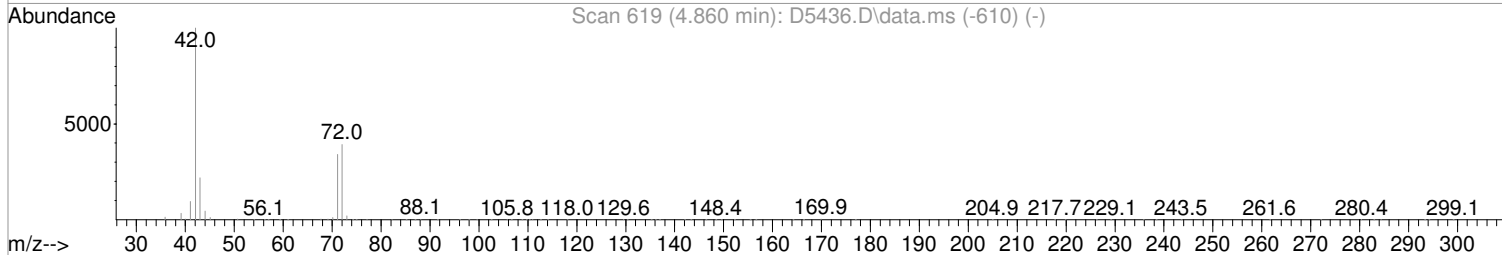
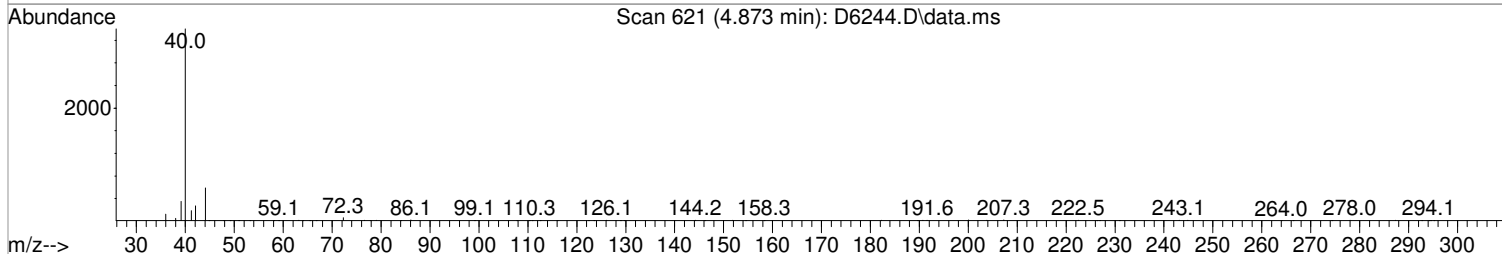
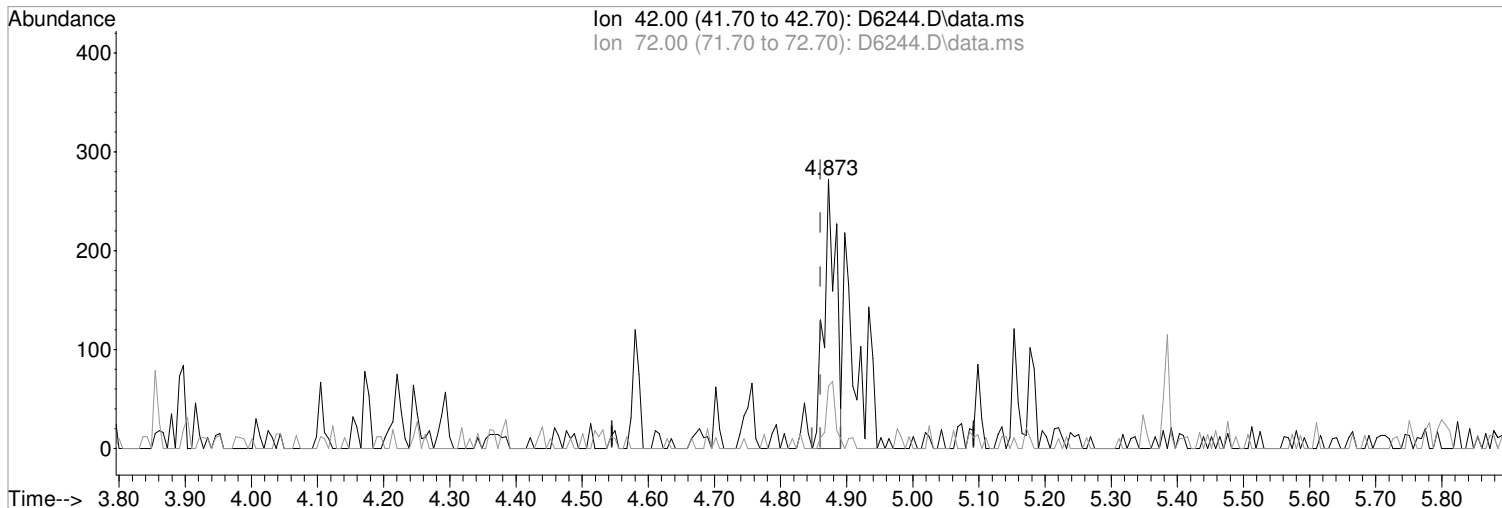
Poor integration.

10/01/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6244.D
Acq On : 28 Sep 2018 11:05 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 11:19:30 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6244.D\data.ms

| | | | |
|-----------------------------|---------------------|-------|----------|
| (38) Tetrahydrofuran | Manual Integration: | | |
| 4.873min (+0.012) 0.37 ug/L | Before | | |
| response 346 | | | |
| Ion | Exp% | Act% | 10/01/18 |
| 42.00 | 100 | 100 | |
| 72.00 | 38.80 | 23.16 | |
| 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6244.D
 Acq On : 28 Sep 2018 11:05 am
 Operator : D.LIPANI
 Sample : MET BLK Inst : MSVOA10
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 14:08:45 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

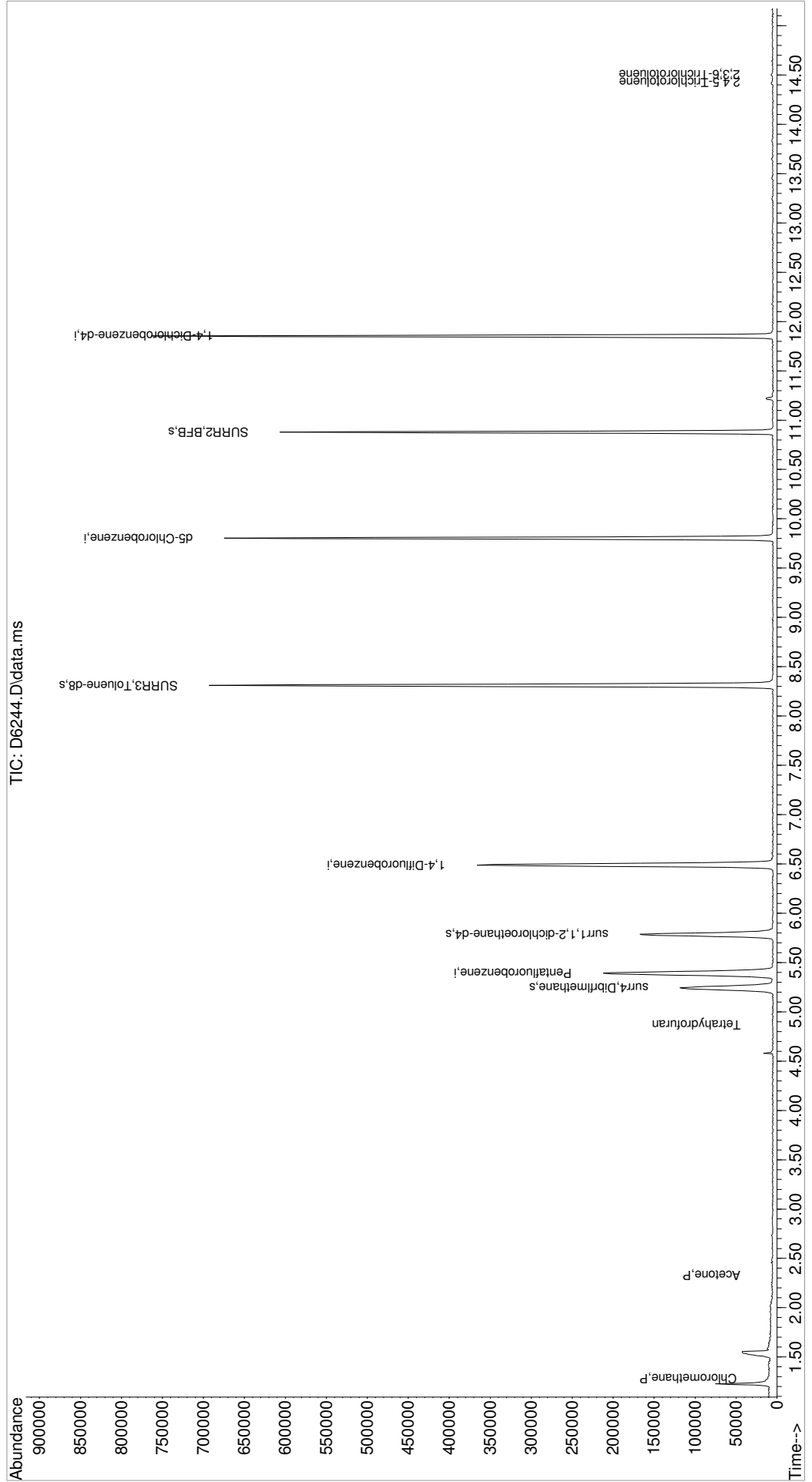
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 189784 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 297924 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 264725 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 132919 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 95385 | 47.51 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 95.02% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 137549 | 52.10 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 104.20% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 379986 | 46.68 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 93.36% | |
| 69) SURR2,BFB | 10.878 | 95 | 138467 | 44.26 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 88.52% | |
| Target Compounds | | | | | | |
| 3) Chloromethane | 1.282 | 50 | 693 | 0.25 | ug/L # | 45 |
| 5) Bromomethane | 1.593 | 94 | 378 | Below Cal | # | 59 |
| 15) Acetone | 2.330 | 43 | 614 | 0.55 | ug/L # | 69 |
| 38) Tetrahydrofuran | 4.873 | 42 | 654m | 0.70 | ug/L | |
| 118) 2,4,5-Trichlorotoluene | 14.426 | 159 | 548 | 0.30 | ug/L # | 72 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 592 | 0.34 | ug/L # | 66 |

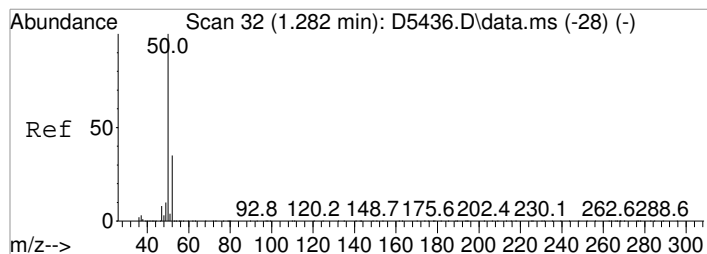
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\092818\
Data File : D6244.D
Acq On : 28 Sep 2018 11:05 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

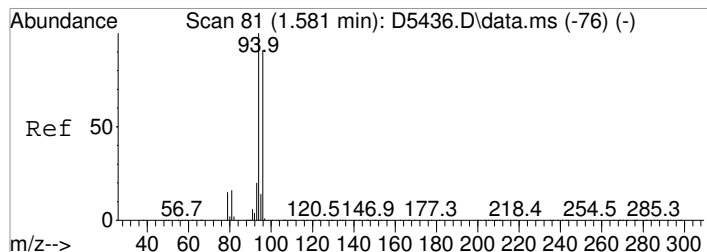
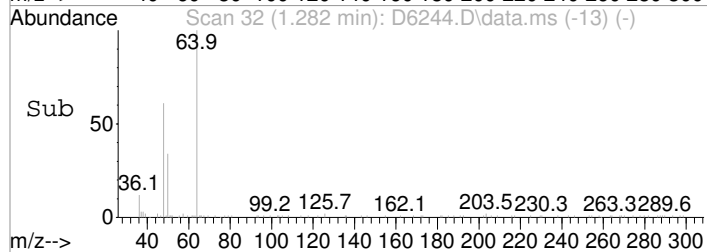
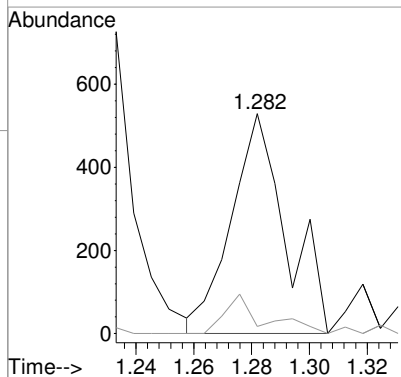
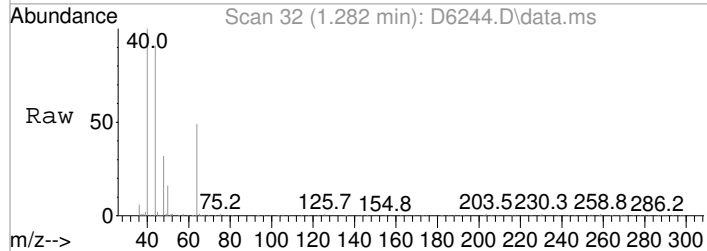
Quant Time: Oct 01 14:08:45 2018
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





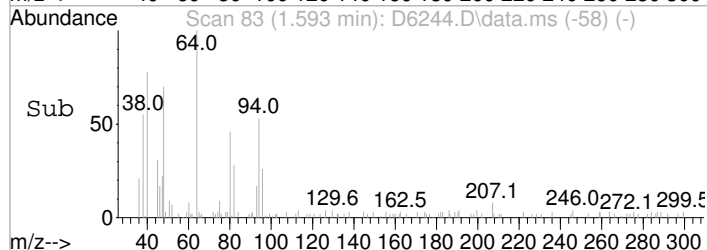
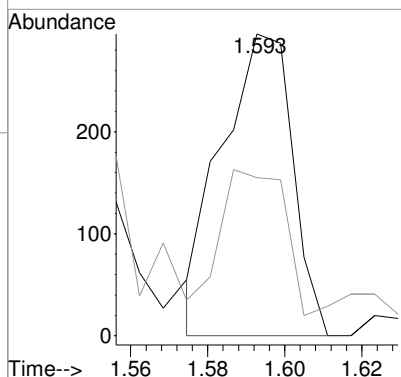
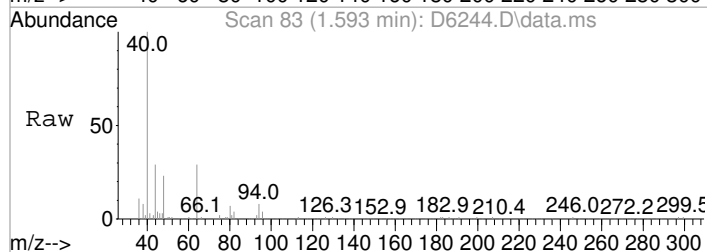
#3
 Chloromethane
 Concen: 0.25 ug/L
 RT: 1.282 min Scan# 32
 Delta R.T. 0.000 min
 Lab File: D6244.D
 Acq: 28 Sep 2018 11:05 am

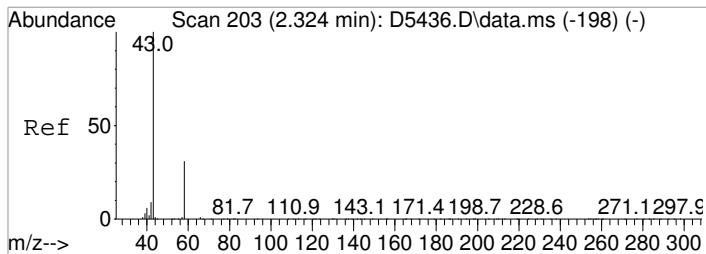
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 50 | 100 | | |
| 52 | 3.2 | 15.0 | 55.0# |



#5
 Bromomethane
 Concen: Below Cal
 RT: 1.593 min Scan# 83
 Delta R.T. 0.012 min
 Lab File: D6244.D
 Acq: 28 Sep 2018 11:05 am

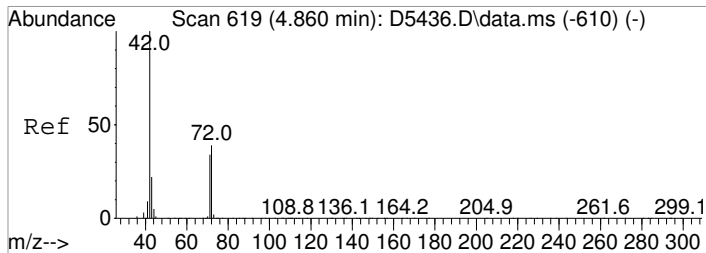
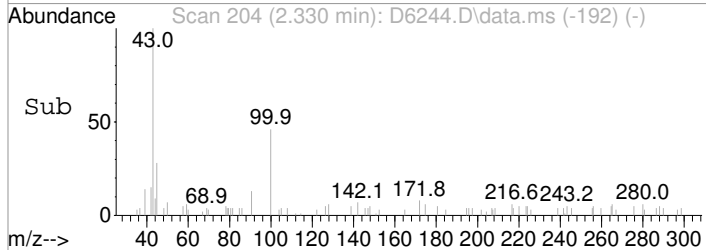
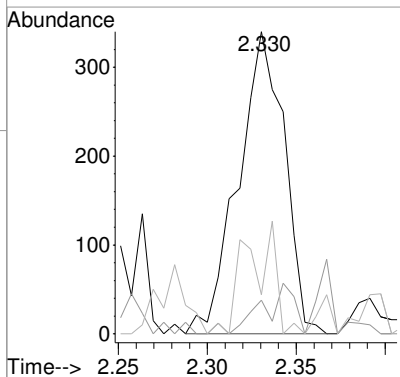
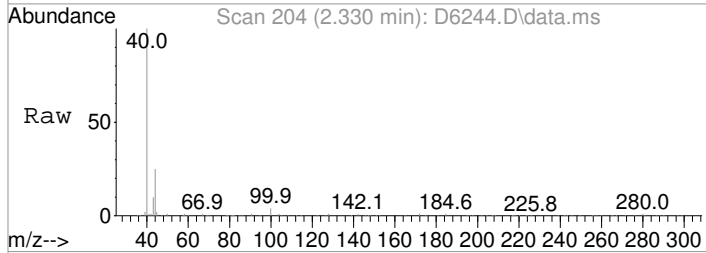
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 94 | 100 | | |
| 96 | 52.4 | 71.1 | 111.1# |





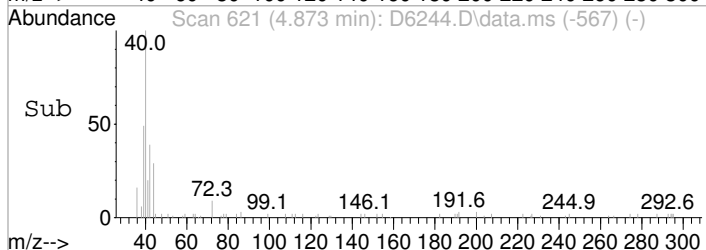
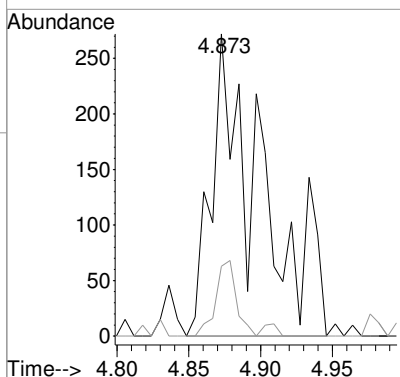
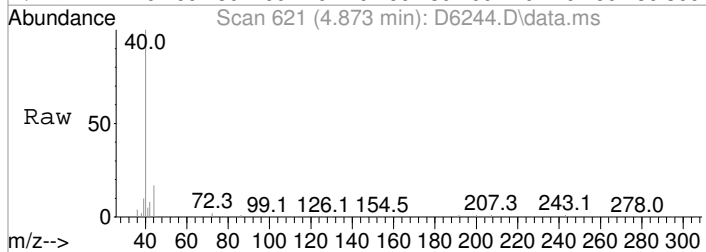
#15
 Acetone
 Concen: 0.55 ug/L
 RT: 2.330 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: D6244.D
 Acq: 28 Sep 2018 11:05 am

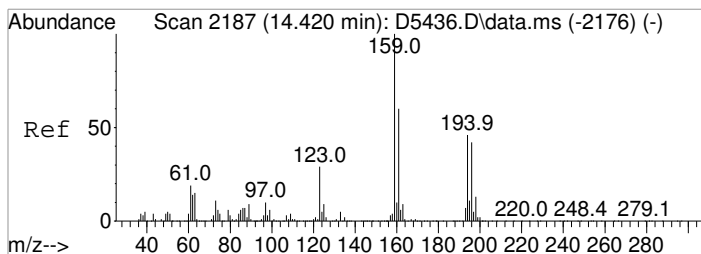
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 11.2 | 11.2 | 51.2# |
| 42 | 12.9 | 0.0 | 28.6 |



#38
 Tetrahydrofuran
 Concen: 0.70 ug/L m
 RT: 4.873 min Scan# 621
 Delta R.T. 0.012 min
 Lab File: D6244.D
 Acq: 28 Sep 2018 11:05 am

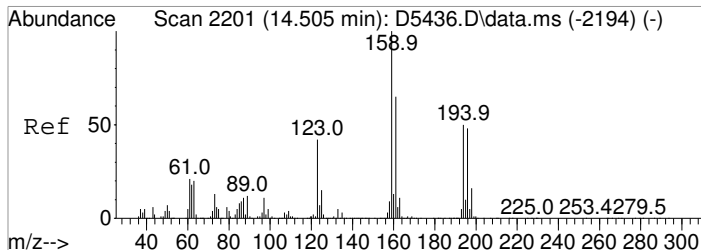
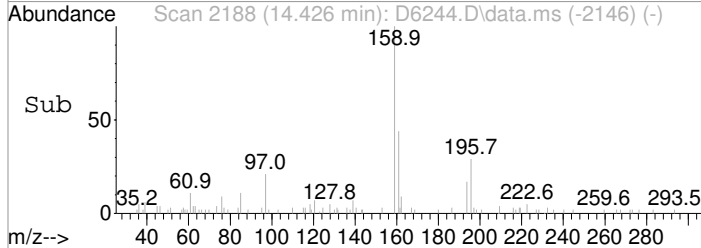
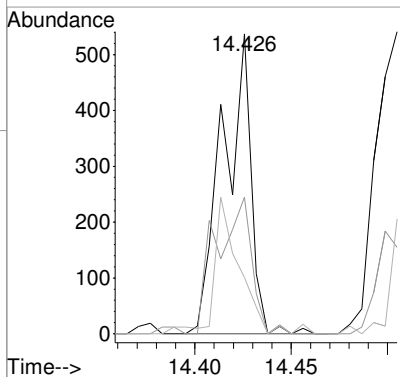
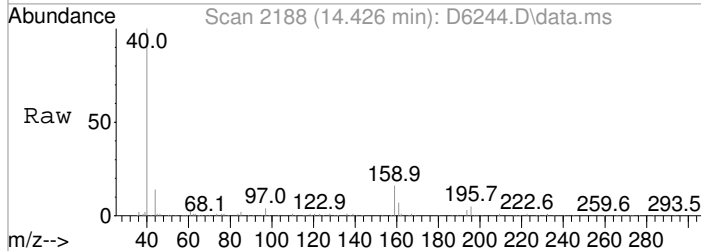
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 42 | 100 | | |
| 72 | 23.2 | 18.8 | 58.8 |





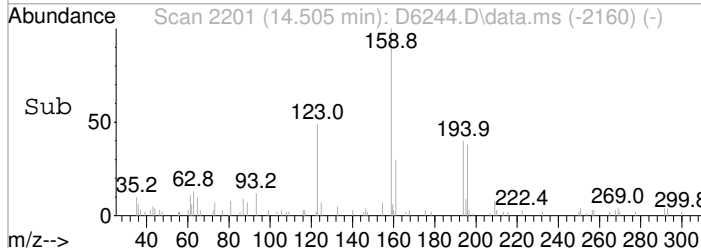
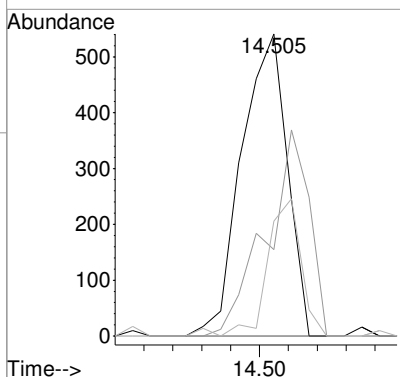
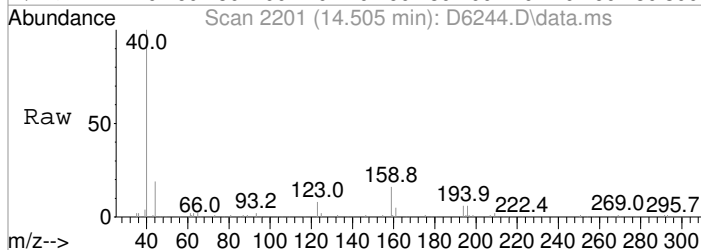
#118
 2,4,5-Trichlorotoluene
 Concen: 0.30 ug/L
 RT: 14.426 min Scan# 2188
 Delta R.T. 0.006 min
 Lab File: D6244.D
 Acq: 28 Sep 2018 11:05 am

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 159 | 100 | | |
| 161 | 45.6 | 39.9 | 79.9 |
| 194 | 18.8 | 25.6 | 65.6# |



#119
 2,3,6-Trichlorotoluene
 Concen: 0.34 ug/L
 RT: 14.505 min Scan# 2201
 Delta R.T. 0.000 min
 Lab File: D6244.D
 Acq: 28 Sep 2018 11:05 am

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 159 | 100 | | |
| 161 | 28.7 | 45.1 | 85.1# |
| 194 | 38.1 | 30.2 | 70.2 |



Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6242.D
 Acq On : 28 Sep 2018 10:13 am
 Operator : D.LIPANI
 Sample : LCS-Acid Inst : MSVOA10
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 10:27:56 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|-------------------------------|--------|----------------|----------|--------|---------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 209448 | 50.00 | ug/L | 0.00 | |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 327087 | 50.00 | ug/L | 0.00 | |
| 70) d5-Chlorobenzene | 9.805 | 117 | 288286 | 50.00 | ug/L | 0.00 | |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 146987 | 50.00 | ug/L | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 106676 | 48.40 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 96.80% | | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 149361 | 51.53 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 103.06% | | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 424564 | 47.51 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 95.02% | | |
| 69) SURR2,BFB | 10.878 | 95 | 157994 | 46.00 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 92.00% | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 67285 | 24.06 | ug/L | | 98 |
| 3) Chloromethane | 1.282 | 50 | 66055 | 21.63 | ug/L | | 93 |
| 4) Vinyl Chloride | 1.361 | 62 | 60647 | 20.00 | ug/L | | 100 |
| 5) Bromomethane | 1.587 | 94 | 33457 | 14.37 | ug/L | | 97 |
| 6) Chloroethane | 1.666 | 64 | 32931 | 17.38 | ug/L | | 94 |
| 7) Freon 21 | 1.812 | 67 | 85907 | 18.55 | ug/L | | 100 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 69012 | 20.25 | ug/L | | 98 |
| 9) Diethyl Ether | 2.093 | 59 | 43133 | 22.36 | ug/L | | 93 |
| 10) Freon 123a | 2.099 | 67 | 54101 | 20.35 | ug/L | | 97 |
| 11) Freon 123 | 2.148 | 83 | 79881 | 27.07 | ug/L | | 99 |
| 12) Acrolein | 2.196 | 56 | 24375 | 39.15 | ug/L | | 85 |
| 13) 1,1-Dicethene | 2.288 | 96 | 40158 | 20.80 | ug/L | | 97 |
| 14) Freon 113 | 2.288 | 101 | 42471 | 22.08 | ug/L | | 94 |
| 15) Acetone | 2.330 | 43 | 28875 | 23.43 | ug/L | | 87 |
| 16) 2-Propanol | 2.458 | 45 | 101531 | 426.16 | ug/L | | 87 |
| 17) Iodomethane | 2.416 | 142 | 52952 | 23.24 | ug/L | | 98 |
| 18) Carbon Disulfide | 2.477 | 76 | 115596 | 21.96 | ug/L | | 99 |
| 19) Acetonitrile | 2.580 | 41 | 53421 | 119.27 | ug/L | | 82 |
| 20) Allyl Chloride | 2.617 | 76 | 22827 | 24.25 | ug/L | # | 82 |
| 21) Methyl Acetate | 2.641 | 43 | 60108 | 24.48 | ug/L | | 95 |
| 22) Methylene Chloride | 2.733 | 84 | 46458 | 20.63 | ug/L | | 93 |
| 23) TBA | 2.867 | 59 | 140778 | 394.46 | ug/L | | 92 |
| 24) Acrylonitrile | 2.989 | 53 | 139370 | 114.42 | ug/L | | 99 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 145974 | 20.38 | ug/L | | 96 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 44780 | 21.69 | ug/L | | 95 |
| 27) 1,1-Dicethane | 3.531 | 63 | 90771 | 22.43 | ug/L | | 99 |
| 28) Vinyl Acetate | 3.623 | 86 | 9942 | 21.34 | ug/L | # | 51 |
| 29) DIPE | 3.653 | 45 | 189346 | 25.27 | ug/L | | 93 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 81500 | 23.43 | ug/L | | 93 |
| 31) ETBE | 4.184 | 59 | 135610 | 19.99 | ug/L | | 97 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 56281 | 18.25 | ug/L | | 93 |
| 33) cis-1,2-Dichloroethene | 4.367 | 96 | 46841 | 20.36 | ug/L | | 93 |
| 34) 2-Butanone | 4.415 | 43 | 38232 | 22.95 | ug/L | | 81 |
| 35) Propionitrile | 4.495 | 54 | 54884 | 111.21 | ug/L | | 99 |
| 36) Bromochloromethane | 4.775 | 130 | 27746 | 19.51 | ug/L | | 85 |
| 37) Methacrylonitrile | 4.769 | 67 | 24783 | 20.87 | ug/L | # | 74 |
| 38) Tetrahydrofuran | 4.860 | 42 | 26884 | 26.06 | ug/L | | 94 |
| 39) Chloroform | 4.952 | 83 | 78209 | 21.11 | ug/L | | 95 |
| 40) 1,1,1-Trichloroethane | 5.245 | 97 | 62648 | 20.02 | ug/L | | 97 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6242.D
Acq On : 28 Sep 2018 10:13 am
Operator : D.LIPANI
Sample : LCS-Acid
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 10:27:56 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.342 | 41 | 58318 | 24.28 | ug/L | 91 |
| 44) Carbontetrachloride | 5.531 | 117 | 45715 | 18.94 | ug/L | 99 |
| 45) 1,1-Dichloropropene | 5.549 | 75 | 61412 | 20.09 | ug/L | 95 |
| 47) Benzene | 5.866 | 78 | 181300 | 20.79 | ug/L | 92 |
| 48) 1,2-Dichloroethane | 5.897 | 62 | 74652 | 21.52 | ug/L | 95 |
| 49) Iso-Butyl Alcohol | 5.879 | 43 | 68677 | 422.45 | ug/L | 99 |
| 50) TAME | 6.104 | 73 | 126572 | 19.75 | ug/L | 95 |
| 51) n-Heptane | 6.354 | 43 | 78770 | 26.70 | ug/L | 94 |
| 52) 1-Butanol | 6.854 | 56 | 87761 | 1079.49 | ug/L | 95 |
| 53) Trichloroethene | 6.817 | 130 | 44755 | 19.66 | ug/L | 91 |
| 54) Methylcyclohexane | 7.055 | 55 | 64493 | 22.24 | ug/L | 93 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 52672 | 21.72 | ug/L | 96 |
| 56) Dibromomethane | 7.238 | 93 | 30497 | 21.14 | ug/L | 83 |
| 57) 1,4-Dioxane | 7.305 | 88 | 15631 | 372.55 | ug/L | 92 |
| 58) Methyl Methacrylate | 7.330 | 69 | 38508 | 20.27 | ug/L | 95 |
| 59) Bromodichloromethane | 7.470 | 83 | 55208 | 20.54 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 21843 | 47.98 | ug/L | 96 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 849 | 0.65 | ug/L | 97 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 67521 | 20.49 | ug/L | 99 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 71750 | 22.69 | ug/L | 92 |
| 65) Toluene | 8.384 | 91 | 189452 | 20.22 | ug/L | 99 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 56669 | 18.98 | ug/L | 97 |
| 67) Ethyl Methacrylate | 8.793 | 69 | 65385 | 21.04 | ug/L | 89 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 40905 | 19.73 | ug/L | 97 |
| 71) Tetrachloroethene | 8.976 | 164 | 33953 | 18.94 | ug/L | 96 |
| 72) 2-Hexanone | 9.134 | 43 | 52244 | 21.48 | ug/L | 93 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 77791 | 21.17 | ug/L | 89 |
| 74) Dibromochloromethane | 9.238 | 129 | 35472 | 18.54 | ug/L | 99 |
| 75) N-Butyl Acetate | 9.293 | 43 | 103065 | 22.36 | ug/L | 92 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 42019 | 19.86 | ug/L | 99 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 61525 | 19.03 | ug/L | 99 |
| 78) Chlorobenzene | 9.829 | 112 | 116233 | 19.08 | ug/L | 98 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 54850 | 19.06 | ug/L | 97 |
| 80) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 35863 | 18.98 | ug/L | 99 |
| 81) Ethylbenzene | 9.951 | 106 | 62447 | 19.57 | ug/L # | 88 |
| 82) (m+p)Xylene | 10.061 | 106 | 156631 | 39.50 | ug/L | 99 |
| 83) o-Xylene | 10.420 | 106 | 74441 | 18.87 | ug/L | 99 |
| 84) Styrene | 10.433 | 104 | 127674 | 20.12 | ug/L | 93 |
| 85) Bromoform | 10.585 | 173 | 22308 | 19.93 | ug/L | 90 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 60013 | 19.24 | ug/L | 95 |
| 87) Isopropylbenzene | 10.756 | 105 | 195473 | 19.52 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 53836 | 112.16 | ug/L | 92 |
| 89) trans-1,4-Dichloro-2-B... | 11.060 | 53 | 14971 | 22.41 | ug/L | 80 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 62949 | 22.54 | ug/L | 97 |
| 92) Bromobenzene | 11.000 | 156 | 50230 | 20.43 | ug/L | 90 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 17567 | 20.40 | ug/L # | 88 |
| 94) n-Propylbenzene | 11.109 | 91 | 245414 | 22.64 | ug/L | 97 |
| 95) 2-Chlorotoluene | 11.176 | 91 | 140434 | 21.48 | ug/L | 98 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 131371 | 20.34 | ug/L | 93 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 164232 | 21.06 | ug/L | 97 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 167287 | 22.21 | ug/L | 97 |
| 99) tert-Butylbenzene | 11.536 | 119 | 140271 | 21.23 | ug/L | 99 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 164903 | 21.99 | ug/L | 99 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 51215 | 21.26 | ug/L | 88 |
| 102) sec-Butylbenzene | 11.719 | 105 | 216270 | 22.64 | ug/L | 96 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 169846 | 20.83 | ug/L | 98 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6242.D
 Acq On : 28 Sep 2018 10:13 am
 Operator : D.LIPANI
 Sample : LCS-Acid Inst : MSVOA10
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 10:27:56 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

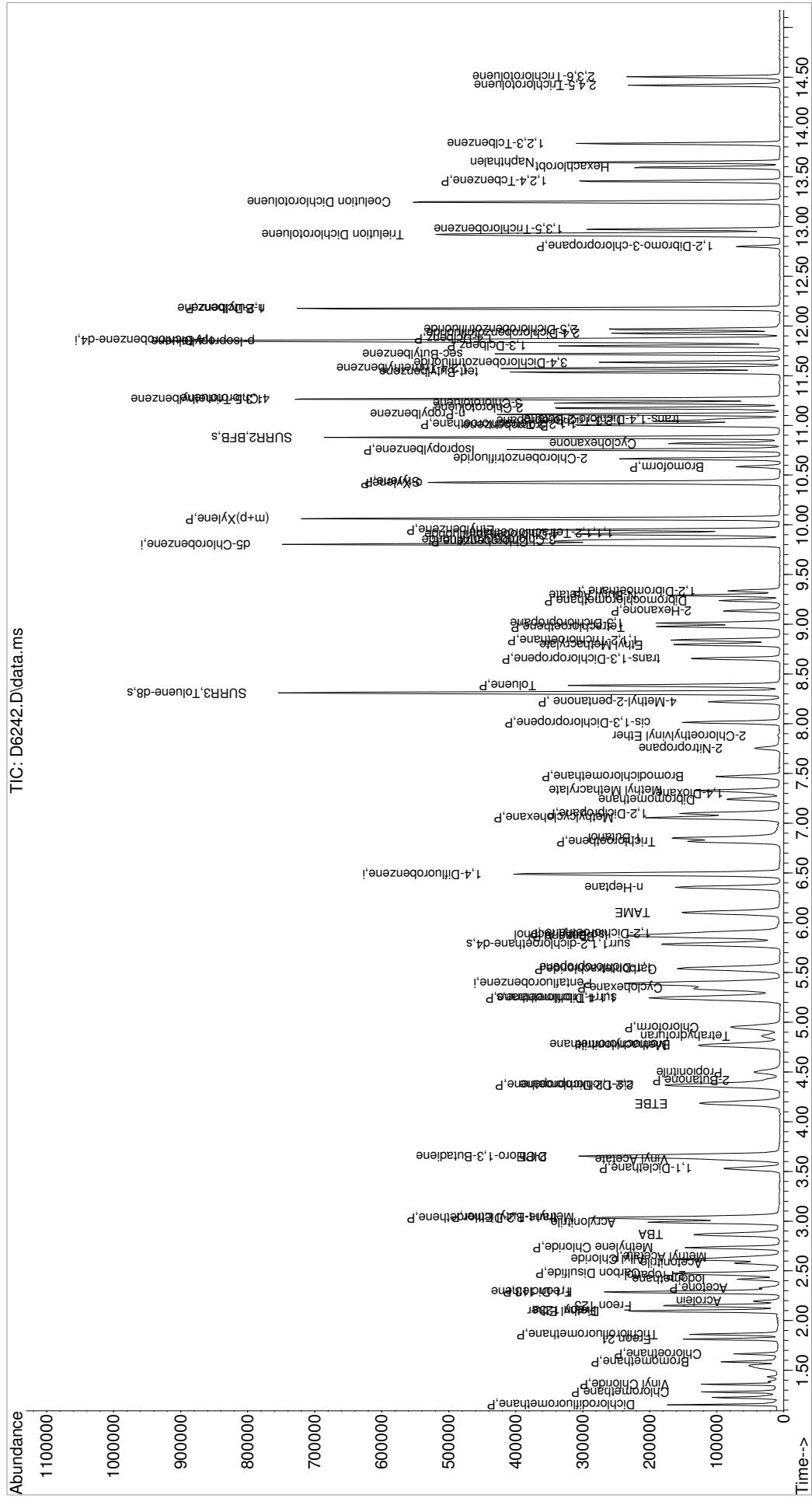
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 93987 | 20.79 | ug/L | 100 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 93168 | 19.51 | ug/L | 98 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 44272 | 20.61 | ug/L | 95 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 50127 | 20.20 | ug/L | 98 |
| 108) n-Butylbenzene | 12.176 | 91 | 174130 | 22.34 | ug/L | 97 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 91487 | 19.94 | ug/L | 99 |
| 110) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 10445 | 18.26 | ug/L | 89 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 231680 | 61.86 | ug/L | 98 |
| 112) 1,3,5-Trichlorobenzene | 12.975 | 180 | 67181 | 20.20 | ug/L | 98 |
| 113) Coelution Dichlorotoluene | 13.249 | 125 | 163961 | 39.65 | ug/L | 96 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 68868 | 21.12 | ug/L | 98 |
| 115) Hexachlorobt | 13.597 | 225 | 31951 | 22.42 | ug/L | 99 |
| 116) Naphthalen | 13.645 | 128 | 175261 | 20.73 | ug/L | 99 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 66041 | 20.60 | ug/L | 96 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 40790 | 20.04 | ug/L | 98 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 39199 | 20.45 | ug/L | 95 |

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

Data Path : I:\ACQDATA\msvoa10\data\092818\
 Data File : D6242.D
 Acq On : 28 Sep 2018 10:13 am
 Operator : D.LIPANI
 Sample : LCS-Acid
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 10:27:56 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6242.D
Acq On : 28 Sep 2018 10:13 am
Operator : D.LIPANI
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 10:27:56 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|-------------------------------|--------|-------|----------|----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 209448 | 50.00 | ug/L | 0.00 | |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 327087 | 50.00 | ug/L | 0.00 | |
| 70) d5-Chlorobenzene | 9.805 | 117 | 288286 | 50.00 | ug/L | 0.00 | |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 146987 | 50.00 | ug/L | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 106676 | 48.40 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 96.80% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 149361 | 51.53 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 103.06% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 424564 | 47.51 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 95.02% | |
| 69) SURR2,BFB | 10.878 | 95 | 157994 | 46.00 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 92.00% | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 67285 | 24.06 | ug/L | | 98 |
| 3) Chloromethane | 1.282 | 50 | 66055 | 21.63 | ug/L | | 93 |
| 4) Vinyl Chloride | 1.361 | 62 | 60647 | 20.00 | ug/L | | 100 |
| 5) Bromomethane | 1.587 | 94 | 33457 | 14.37 | ug/L | | 97 |
| 6) Chloroethane | 1.666 | 64 | 32931 | 17.38 | ug/L | | 94 |
| 7) Freon 21 | 1.812 | 67 | 85907 | 18.55 | ug/L | | 100 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 69012 | 20.25 | ug/L | | 98 |
| 9) Diethyl Ether | 2.093 | 59 | 43133 | 22.36 | ug/L | | 93 |
| 10) Freon 123a | 2.099 | 67 | 54101 | 20.35 | ug/L | | 97 |
| 11) Freon 123 | 2.148 | 83 | 79881 | 27.07 | ug/L | | 99 |
| 12) Acrolein | 2.196 | 56 | 24375 | 39.15 | ug/L | | 85 |
| 13) 1,1-Dicethene | 2.288 | 96 | 40158 | 20.80 | ug/L | | 97 |
| 14) Freon 113 | 2.288 | 101 | 42471 | 22.08 | ug/L | | 94 |
| 15) Acetone | 2.330 | 43 | 28875 | 23.43 | ug/L | | 87 |
| 16) 2-Propanol | 2.458 | 45 | 101531 | 426.16 | ug/L | | 87 |
| 17) Iodomethane | 2.416 | 142 | 52952 | 23.24 | ug/L | | 98 |
| 18) Carbon Disulfide | 2.477 | 76 | 115596 | 21.96 | ug/L | | 99 |
| 19) Acetonitrile | 2.580 | 41 | 53421 | 119.27 | ug/L | | 82 |
| 20) Allyl Chloride | 2.617 | 76 | 22827 | 24.25 | ug/L | # | 82 |
| 21) Methyl Acetate | 2.641 | 43 | 60108 | 24.48 | ug/L | | 95 |
| 22) Methylene Chloride | 2.733 | 84 | 46458 | 20.63 | ug/L | | 93 |
| 23) TBA | 2.867 | 59 | 140778 | 394.46 | ug/L | | 92 |
| 24) Acrylonitrile | 2.989 | 53 | 139370 | 114.42 | ug/L | | 99 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 145974 | 20.38 | ug/L | | 96 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 44780 | 21.69 | ug/L | | 95 |
| 27) 1,1-Dicethane | 3.531 | 63 | 90771 | 22.43 | ug/L | | 99 |
| 28) Vinyl Acetate | 3.623 | 86 | 9942 | 21.34 | ug/L | # | 51 |
| 29) DIPE | 3.653 | 45 | 189346 | 25.27 | ug/L | | 93 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 81500 | 23.43 | ug/L | | 93 |
| 31) ETBE | 4.184 | 59 | 135610 | 19.99 | ug/L | | 97 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 56281 | 18.25 | ug/L | | 93 |
| 33) cis-1,2-Dichloroethene | 4.367 | 96 | 46841 | 20.36 | ug/L | | 93 |
| 34) 2-Butanone | 4.415 | 43 | 38232 | 22.95 | ug/L | | 81 |
| 35) Propionitrile | 4.495 | 54 | 54884 | 111.21 | ug/L | | 99 |
| 36) Bromochloromethane | 4.775 | 130 | 27746 | 19.51 | ug/L | | 85 |
| 37) Methacrylonitrile | 4.769 | 67 | 24783 | 20.87 | ug/L | # | 74 |
| 38) Tetrahydrofuran | 4.860 | 42 | 26884 | 26.06 | ug/L | | 94 |
| 39) Chloroform | 4.952 | 83 | 78209 | 21.11 | ug/L | | 95 |
| 40) 1,1,1-Trichloroethane | 5.245 | 97 | 62648 | 20.02 | ug/L | | 97 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6242.D
Acq On : 28 Sep 2018 10:13 am
Operator : D.LIPANI
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 10:27:56 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.342 | 41 | 58318 | 24.28 | ug/L | 91 |
| 44) Carbontetrachloride | 5.531 | 117 | 45715 | 18.94 | ug/L | 99 |
| 45) 1,1-Dichloropropene | 5.549 | 75 | 61412 | 20.09 | ug/L | 95 |
| 47) Benzene | 5.866 | 78 | 181300 | 20.79 | ug/L | 92 |
| 48) 1,2-Dichloroethane | 5.897 | 62 | 74652 | 21.52 | ug/L | 95 |
| 49) Iso-Butyl Alcohol | 5.879 | 43 | 68677 | 422.45 | ug/L | 99 |
| 50) TAME | 6.104 | 73 | 126572 | 19.75 | ug/L | 95 |
| 51) n-Heptane | 6.354 | 43 | 78770 | 26.70 | ug/L | 94 |
| 52) 1-Butanol | 6.854 | 56 | 87761 | 1079.49 | ug/L | 95 |
| 53) Trichloroethene | 6.817 | 130 | 44755 | 19.66 | ug/L | 91 |
| 54) Methylcyclohexane | 7.055 | 55 | 64493 | 22.24 | ug/L | 93 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 52672 | 21.72 | ug/L | 96 |
| 56) Dibromomethane | 7.238 | 93 | 30497 | 21.14 | ug/L | 83 |
| 57) 1,4-Dioxane | 7.305 | 88 | 15631 | 372.55 | ug/L | 92 |
| 58) Methyl Methacrylate | 7.330 | 69 | 38508 | 20.27 | ug/L | 95 |
| 59) Bromodichloromethane | 7.470 | 83 | 55208 | 20.54 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 21843 | 47.98 | ug/L | 96 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 849 | 0.65 | ug/L | 97 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 67521 | 20.49 | ug/L | 99 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 71750 | 22.69 | ug/L | 92 |
| 65) Toluene | 8.384 | 91 | 189452 | 20.22 | ug/L | 99 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 56669 | 18.98 | ug/L | 97 |
| 67) Ethyl Methacrylate | 8.793 | 69 | 65385 | 21.04 | ug/L | 89 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 40905 | 19.73 | ug/L | 97 |
| 71) Tetrachloroethene | 8.976 | 164 | 33953 | 18.94 | ug/L | 96 |
| 72) 2-Hexanone | 9.134 | 43 | 52244 | 21.48 | ug/L | 93 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 77791 | 21.17 | ug/L | 89 |
| 74) Dibromochloromethane | 9.238 | 129 | 35472 | 18.54 | ug/L | 99 |
| 75) N-Butyl Acetate | 9.293 | 43 | 103065 | 22.36 | ug/L | 92 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 42019 | 19.86 | ug/L | 99 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 61525 | 19.03 | ug/L | 99 |
| 78) Chlorobenzene | 9.829 | 112 | 116233 | 19.08 | ug/L | 98 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 54850 | 19.06 | ug/L | 97 |
| 80) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 35863 | 18.98 | ug/L | 99 |
| 81) Ethylbenzene | 9.951 | 106 | 62447 | 19.57 | ug/L # | 88 |
| 82) (m+p)Xylene | 10.061 | 106 | 156631 | 39.50 | ug/L | 99 |
| 83) o-Xylene | 10.420 | 106 | 74441 | 18.87 | ug/L | 99 |
| 84) Styrene | 10.433 | 104 | 127674 | 20.12 | ug/L | 93 |
| 85) Bromoform | 10.585 | 173 | 22308 | 19.93 | ug/L | 90 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 60013 | 19.24 | ug/L | 95 |
| 87) Isopropylbenzene | 10.756 | 105 | 195473 | 19.52 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 53836 | 112.16 | ug/L | 92 |
| 89) trans-1,4-Dichloro-2-B... | 11.060 | 53 | 14971 | 22.41 | ug/L | 80 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 62949 | 22.54 | ug/L | 97 |
| 92) Bromobenzene | 11.000 | 156 | 50230 | 20.43 | ug/L | 90 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 17567 | 20.40 | ug/L # | 88 |
| 94) n-Propylbenzene | 11.109 | 91 | 245414 | 22.64 | ug/L | 97 |
| 95) 2-Chlorotoluene | 11.176 | 91 | 140434 | 21.48 | ug/L | 98 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 131371 | 20.34 | ug/L | 93 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 164232 | 21.06 | ug/L | 97 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 167287 | 22.21 | ug/L | 97 |
| 99) tert-Butylbenzene | 11.536 | 119 | 140271 | 21.23 | ug/L | 99 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 164903 | 21.99 | ug/L | 99 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 51215 | 21.26 | ug/L | 88 |
| 102) sec-Butylbenzene | 11.719 | 105 | 216270 | 22.64 | ug/L | 96 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 169846 | 20.83 | ug/L | 98 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6242.D
 Acq On : 28 Sep 2018 10:13 am
 Operator : D.LIPANI
 Sample : LCS Inst : MSVOA10
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 10:27:56 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 93987 | 20.79 | ug/L | 100 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 93168 | 19.51 | ug/L | 98 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 44272 | 20.61 | ug/L | 95 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 50127 | 20.20 | ug/L | 98 |
| 108) n-Butylbenzene | 12.176 | 91 | 174130 | 22.34 | ug/L | 97 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 91487 | 19.94 | ug/L | 99 |
| 110) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 10445 | 18.26 | ug/L | 89 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 231680 | 61.86 | ug/L | 98 |
| 112) 1,3,5-Trichlorobenzene | 12.975 | 180 | 67181 | 20.20 | ug/L | 98 |
| 113) Coelution Dichlorotoluene | 13.249 | 125 | 163961 | 39.65 | ug/L | 96 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 68868 | 21.12 | ug/L | 98 |
| 115) Hexachlorobt | 13.597 | 225 | 31951 | 22.42 | ug/L | 99 |
| 116) Naphthalen | 13.645 | 128 | 175261 | 20.73 | ug/L | 99 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 66041 | 20.60 | ug/L | 96 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 40790 | 20.04 | ug/L | 98 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 39199 | 20.45 | ug/L | 95 |

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

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6266.D
 Acq On : 28 Sep 2018 8:18 pm
 Operator : D.LIPANI
 Sample : R1809120-002MS|1.0 Inst : MSVOA10
 Misc : APTIM 13429 T2
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 20:32:21 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|--------|----------------|----------|---------|---------|---------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 206967 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 323940 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 289190 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 159718 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 106901 | 48.97 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 97.94% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 148988 | 51.90 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 103.80% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 431441 | 48.74 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 97.48% | |
| 69) SURR2,BFB | 10.878 | 95 | 165875 | 48.76 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 97.52% | |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 153582 | 55.57 | ug/L | 99 |
| 3) Chloromethane | 1.282 | 50 | 140076 | 46.41 | ug/L | 95 |
| 4) Vinyl Chloride | 1.361 | 62 | 143543 | 47.91 | ug/L | 87 |
| 5) Bromomethane | 1.581 | 94 | 46799 | 20.14 | ug/L | 95 |
| 6) Chloroethane | 1.660 | 64 | 90933 | 48.56 | ug/L | 97 |
| 7) Freon 21 | 1.812 | 67 | 217253 | 47.46 | ug/L | 98 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 167089 | 49.61 | ug/L | 97 |
| 9) Diethyl Ether | 2.093 | 59 | 105975 | 55.58 | ug/L | 90 |
| 10) Freon 123a | 2.099 | 67 | 149438 | 56.87 | ug/L | 92 |
| 11) Freon 123 | 2.148 | 83 | 200883 | 68.88 | ug/L | 96 |
| 12) Acrolein | 2.196 | 56 | 54632 | 88.80 | ug/L | 93 |
| 13) 1,1-Diclcethene | 2.282 | 96 | 97390 | 51.05 | ug/L | 97 |
| 14) Freon 113 | 2.294 | 101 | 103552 | 54.49 | ug/L | 100 |
| 15) Acetone | 2.324 | 43 | 63439 | 52.10 | ug/L | 91 |
| 16) 2-Propanol | 2.465 | 45 | 259943 | 1104.15 | ug/L | 92 |
| 17) Iodomethane | 2.416 | 142 | 129129 | 51.53 | ug/L | 100 |
| 18) Carbon Disulfide | 2.477 | 76 | 305183 | 58.67 | ug/L | 99 |
| 19) Acetonitrile | 2.580 | 41 | 131703 | 297.57 | ug/L | 93 |
| 20) Allyl Chloride | 2.617 | 76 | 56413 | 60.66 | ug/L # | 71 |
| 21) Methyl Acetate | 2.641 | 43 | 141821 | 58.45 | ug/L | 94 |
| 22) Methylene Chloride | 2.733 | 84 | 109911 | 49.38 | ug/L # | 87 |
| 23) TBA | 2.867 | 59 | 357608 | 1014.04 | ug/L | 89 |
| 24) Acrylonitrile | 2.989 | 53 | 335957 | 279.12 | ug/L | 98 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 357664 | 50.54 | ug/L | 100 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 106667 | 52.28 | ug/L | 100 |
| 27) 1,1-Diclcethane | 3.525 | 63 | 223802 | 55.97 | ug/L | 100 |
| 28) Vinyl Acetate | 3.617 | 86 | 23868 | 51.85 | ug/L # | 43 |
| 29) DIPE | 3.653 | 45 | 483255 | 65.27 | ug/L | 91 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 206093 | 59.96 | ug/L | 90 |
| 31) ETBE | 4.184 | 59 | 333532 | 49.75 | ug/L | 95 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 134913 | 44.26 | ug/L | 98 |
| 33) cis-1,2-Dichloroethene | 4.367 | 96 | 121276 | 53.34 | ug/L | 95 |
| 34) 2-Butanone | 4.415 | 43 | 97847 | 59.44 | ug/L | 90 |
| 35) Propionitrile | 4.501 | 54 | 136484 | 279.87 | ug/L | 99 |
| 36) Bromochloromethane | 4.769 | 130 | 69010 | 49.12 | ug/L # | 82 |
| 37) Methacrylonitrile | 4.769 | 67 | 60861 | 51.87 | ug/L # | 84 |
| 38) Tetrahydrofuran | 4.860 | 42 | 64541 | 63.30 | ug/L | 90 |
| 39) Chloroform | 4.946 | 83 | 197066 | 53.82 | ug/L | 97 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 162623 | 52.60 | ug/L | 95 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6266.D
 Acq On : 28 Sep 2018 8:18 pm
 Operator : D.LIPANI
 Sample : R1809120-002MS|1.0 Inst : MSVOA10
 Misc : APTIM 13429 T2
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 20:32:21 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|-------|----------|
| 42) Cyclohexane | 5.336 | 41 | 151136 | 63.53 | ug/L | 94 |
| 44) Carbontetrachloride | 5.531 | 117 | 119367 | 49.92 | ug/L | 97 |
| 45) 1,1-Dichloropropene | 5.543 | 75 | 155375 | 51.31 | ug/L | 98 |
| 47) Benzene | 5.866 | 78 | 455741 | 52.78 | ug/L | 92 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 184367 | 53.67 | ug/L | 98 |
| 49) Iso-Butyl Alcohol | 5.885 | 43 | 188218 | 1169.02 | ug/L | 99 |
| 50) TAME | 6.104 | 73 | 326449 | 51.43 | ug/L | 94 |
| 51) n-Heptane | 6.354 | 43 | 188620 | 64.56 | ug/L | 92 |
| 52) 1-Butanol | 6.854 | 56 | 243159 | 2734.35 | ug/L | 99 |
| 53) Trichloroethene | 6.817 | 130 | 127309 | 56.46 | ug/L | 98 |
| 54) Methylcyclohexane | 7.055 | 55 | 173833 | 60.51 | ug/L | 90 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 130539 | 54.35 | ug/L | 99 |
| 56) Dibromomethane | 7.244 | 93 | 72410 | 50.69 | ug/L | 98 |
| 57) 1,4-Dioxane | 7.299 | 88 | 39837 | 958.70 | ug/L | 95 |
| 58) Methyl Methacrylate | 7.330 | 69 | 98323 | 52.26 | ug/L | 90 |
| 59) Bromodichloromethane | 7.470 | 83 | 137571 | 51.68 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 61639 | 136.72 | ug/L | 94 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 177297 | 54.31 | ug/L | 98 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 193205 | 61.70 | ug/L | 91 |
| 65) Toluene | 8.384 | 91 | 483841 | 52.13 | ug/L | 98 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 151455 | 51.23 | ug/L | 98 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 175933 | 57.17 | ug/L | 92 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 103038 | 50.19 | ug/L | 97 |
| 71) Tetrachloroethene | 8.982 | 164 | 87358 | 48.57 | ug/L | 96 |
| 72) 2-Hexanone | 9.134 | 43 | 142513 | 58.42 | ug/L | 95 |
| 73) 1,3-Dichloropropene | 9.012 | 76 | 191975 | 52.07 | ug/L | 91 |
| 74) Dibromochloromethane | 9.238 | 129 | 96226 | 50.14 | ug/L | 96 |
| 75) N-Butyl Acetate | 9.286 | 43 | 295268 | 63.85 | ug/L | 90 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 106928 | 50.38 | ug/L | 100 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 160318 | 49.42 | ug/L | 99 |
| 78) Chlorobenzene | 9.829 | 112 | 299085 | 48.94 | ug/L | 96 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 146120 | 50.62 | ug/L | 99 |
| 80) 1,1,1,2-Tetrachloroethane | 9.914 | 131 | 96384 | 50.85 | ug/L | 98 |
| 81) Ethylbenzene | 9.951 | 106 | 166374 | 51.98 | ug/L | 94 |
| 82) (m+p)Xylene | 10.061 | 106 | 409581 | 102.95 | ug/L | 95 |
| 83) o-Xylene | 10.420 | 106 | 198684 | 50.21 | ug/L | 97 |
| 84) Styrene | 10.433 | 104 | 337245 | 52.97 | ug/L | 99 |
| 85) Bromoform | 10.585 | 173 | 63611 | 50.36 | ug/L | 96 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 161283 | 51.56 | ug/L | 97 |
| 87) Isopropylbenzene | 10.756 | 105 | 514475 | 51.22 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 146807 | 304.89 | ug/L | 96 |
| 89) trans-1,4-Dichloro-2-B... | 11.060 | 53 | 41889 | 57.58 | ug/L | 82 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 166582 | 54.89 | ug/L | 99 |
| 92) Bromobenzene | 11.000 | 156 | 130357 | 48.79 | ug/L | 93 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 48417 | 51.75 | ug/L | 93 |
| 94) n-Propylbenzene | 11.109 | 91 | 633817 | 53.81 | ug/L | 98 |
| 95) 2-Chlorotoluene | 11.170 | 91 | 364865 | 51.36 | ug/L | 96 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 361973 | 51.58 | ug/L | 98 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 423272 | 49.96 | ug/L | 97 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 429507 | 52.49 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 362499 | 50.48 | ug/L | 98 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 425956 | 52.27 | ug/L | 98 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 132317 | 50.55 | ug/L | 96 |
| 102) sec-Butylbenzene | 11.719 | 105 | 551571 | 53.13 | ug/L | 99 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 459645 | 51.88 | ug/L | 98 |
| 104) 1,3-Dclbenz | 11.798 | 146 | 240689 | 48.99 | ug/L | 98 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6266.D
 Acq On : 28 Sep 2018 8:18 pm
 Operator : D.LIPANI
 Sample : R1809120-002MS|1.0 Inst : MSVOA10
 Misc : APTIM 13429 T2
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 28 20:32:21 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,4-Dclbenz | 11.871 | 146 | 243091 | 46.86 | ug/L | 98 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 122331 | 52.41 | ug/L | 98 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 136196 | 50.51 | ug/L | 99 |
| 108) n-Butylbenzene | 12.170 | 91 | 450827 | 53.22 | ug/L | 100 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 232475 | 46.64 | ug/L | 98 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 29844 | 48.02 | ug/L | 96 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 613494 | 150.74 | ug/L | 97 |
| 112) 1,3,5-Trichlorobenzene | 12.969 | 180 | 179723 | 49.74 | ug/L | 99 |
| 113) Coelution Dichlorotoluene | 13.243 | 125 | 447045 | 99.48 | ug/L | 93 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 178269 | 50.32 | ug/L | 96 |
| 115) Hexachlorobt | 13.590 | 225 | 74587 | 48.16 | ug/L | 98 |
| 116) Naphthalen | 13.645 | 128 | 481896 | 52.46 | ug/L | 100 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 170437 | 48.92 | ug/L | 96 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 108835 | 49.21 | ug/L | 96 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 106555 | 51.17 | ug/L | 95 |

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

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6267.D
 Acq On : 28 Sep 2018 8:39 pm
 Operator : D.LIPANI
 Sample : R1809120-002DMS|1.0 Inst : MSVOA10
 Misc : APTIM 13429 T2
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 01 17:01:16 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|--------|----------------|----------|---------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 218885 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 330867 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 295512 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 167459 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 110044 | 49.35 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 98.70% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 152299 | 51.94 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 103.88% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 437568 | 48.40 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 96.80% | |
| 69) SURR2,BFB | 10.878 | 95 | 164973 | 47.48 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 94.96% | |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 165678 | 56.69 | ug/L | 99 |
| 3) Chloromethane | 1.282 | 50 | 155599 | 48.74 | ug/L | 95 |
| 4) Vinyl Chloride | 1.361 | 62 | 156352 | 49.35 | ug/L | 89 |
| 5) Bromomethane | 1.581 | 94 | 48254 | 19.66 | ug/L | 95 |
| 6) Chloroethane | 1.660 | 64 | 102559 | 51.79 | ug/L | 96 |
| 7) Freon 21 | 1.812 | 67 | 229767 | 47.46 | ug/L | 99 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 174795 | 49.08 | ug/L | 98 |
| 9) Diethyl Ether | 2.093 | 59 | 106139 | 52.64 | ug/L | 96 |
| 10) Freon 123a | 2.099 | 67 | 147229 | 52.98 | ug/L | 94 |
| 11) Freon 123 | 2.148 | 83 | 209909 | 68.06 | ug/L | 99 |
| 12) Acrolein | 2.196 | 56 | 56368 | 86.63 | ug/L | 100 |
| 13) 1,1-Diclcethene | 2.282 | 96 | 100086 | 49.61 | ug/L | 96 |
| 14) Freon 113 | 2.288 | 101 | 110988 | 55.22 | ug/L | 99 |
| 15) Acetone | 2.324 | 43 | 68821 | 53.45 | ug/L | 93 |
| 16) 2-Propanol | 2.465 | 45 | 297618 | 1195.35 | ug/L | 97 |
| 17) Iodomethane | 2.416 | 142 | 150186 | 55.98 | ug/L | 100 |
| 18) Carbon Disulfide | 2.477 | 76 | 326795 | 59.40 | ug/L | 100 |
| 19) Acetonitrile | 2.574 | 41 | 144964 | 309.70 | ug/L | 93 |
| 20) Allyl Chloride | 2.617 | 76 | 61262 | 62.28 | ug/L # | 72 |
| 21) Methyl Acetate | 2.641 | 43 | 153400 | 59.78 | ug/L | 96 |
| 22) Methylene Chloride | 2.733 | 84 | 114257 | 48.54 | ug/L # | 87 |
| 23) TBA | 2.867 | 59 | 408486 | 1095.24 | ug/L | 93 |
| 24) Acrylonitrile | 2.989 | 53 | 364506 | 286.35 | ug/L | 100 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 392332 | 52.42 | ug/L | 98 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 114943 | 53.27 | ug/L | 95 |
| 27) 1,1-Diclcethane | 3.531 | 63 | 244735 | 57.87 | ug/L | 98 |
| 28) Vinyl Acetate | 3.617 | 86 | 26012 | 53.43 | ug/L # | 53 |
| 29) DIPE | 3.653 | 45 | 515475 | 65.83 | ug/L | 94 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 224419 | 61.74 | ug/L | 93 |
| 31) ETBE | 4.184 | 59 | 361519 | 50.99 | ug/L | 98 |
| 32) 2,2-Dichloropropane | 4.361 | 77 | 156097 | 48.42 | ug/L | 99 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 130916 | 54.45 | ug/L | 90 |
| 34) 2-Butanone | 4.415 | 43 | 106808 | 61.36 | ug/L | 89 |
| 35) Propionitrile | 4.495 | 54 | 144194 | 279.58 | ug/L | 97 |
| 36) Bromochloromethane | 4.769 | 130 | 75839 | 51.04 | ug/L | 86 |
| 37) Methacrylonitrile | 4.769 | 67 | 68000 | 54.80 | ug/L # | 70 |
| 38) Tetrahydrofuran | 4.854 | 42 | 71800 | 66.59 | ug/L | 86 |
| 39) Chloroform | 4.952 | 83 | 212670 | 54.92 | ug/L | 99 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 171562 | 52.47 | ug/L | 97 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6267.D
 Acq On : 28 Sep 2018 8:39 pm
 Operator : D.LIPANI
 Sample : R1809120-002DMS|1.0 Inst : MSVOA10
 Misc : APTIM 13429 T2
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 01 17:01:16 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.336 | 41 | 155500 | 64.00 | ug/L | 97 |
| 44) Carbontetrachloride | 5.531 | 117 | 130158 | 53.30 | ug/L | 97 |
| 45) 1,1-Dichloropropene | 5.543 | 75 | 168275 | 54.41 | ug/L | 94 |
| 47) Benzene | 5.860 | 78 | 487568 | 55.28 | ug/L | 94 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 197805 | 56.38 | ug/L | 97 |
| 49) Iso-Butyl Alcohol | 5.885 | 43 | 208528 | 1268.05 | ug/L | 99 |
| 50) TAME | 6.104 | 73 | 345544 | 53.30 | ug/L | 92 |
| 51) n-Heptane | 6.354 | 43 | 195080 | 65.38 | ug/L | 94 |
| 52) 1-Butanol | 6.854 | 56 | 269770 | 2937.28 | ug/L | 96 |
| 53) Trichloroethene | 6.817 | 130 | 135067 | 58.65 | ug/L | 96 |
| 54) Methylcyclohexane | 7.055 | 55 | 181528 | 61.87 | ug/L | 86 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 138036 | 56.26 | ug/L | 91 |
| 56) Dibromomethane | 7.244 | 93 | 78374 | 53.72 | ug/L | 98 |
| 57) 1,4-Dioxane | 7.305 | 88 | 41741 | 983.49 | ug/L | 99 |
| 58) Methyl Methacrylate | 7.330 | 69 | 107839 | 56.12 | ug/L | 89 |
| 59) Bromodichloromethane | 7.470 | 83 | 150629 | 55.40 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 69254 | 150.39 | ug/L | 94 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 189346 | 56.79 | ug/L | 97 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 203610 | 63.66 | ug/L | 96 |
| 65) Toluene | 8.384 | 91 | 515735 | 54.40 | ug/L | 99 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 164752 | 54.56 | ug/L | 98 |
| 67) Ethyl Methacrylate | 8.793 | 69 | 188797 | 60.07 | ug/L | 87 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 108410 | 51.70 | ug/L | 95 |
| 71) Tetrachloroethene | 8.976 | 164 | 94356 | 51.34 | ug/L | 98 |
| 72) 2-Hexanone | 9.134 | 43 | 152367 | 61.12 | ug/L | 91 |
| 73) 1,3-Dichloropropene | 9.012 | 76 | 205291 | 54.49 | ug/L | 91 |
| 74) Dibromochloromethane | 9.238 | 129 | 105886 | 54.00 | ug/L | 97 |
| 75) N-Butyl Acetate | 9.286 | 43 | 308664 | 65.32 | ug/L | 93 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 113478 | 52.33 | ug/L | 99 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 173139 | 52.23 | ug/L | 98 |
| 78) Chlorobenzene | 9.829 | 112 | 309294 | 49.52 | ug/L | 94 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 150592 | 51.05 | ug/L | 97 |
| 80) 1,1,1,2-Tetrachloroethane | 9.914 | 131 | 108069 | 55.80 | ug/L | 93 |
| 81) Ethylbenzene | 9.951 | 106 | 172344 | 52.70 | ug/L # | 89 |
| 82) (m+p)Xylene | 10.061 | 106 | 432138 | 106.30 | ug/L | 96 |
| 83) o-Xylene | 10.420 | 106 | 206213 | 51.00 | ug/L | 96 |
| 84) Styrene | 10.433 | 104 | 353348 | 54.32 | ug/L | 98 |
| 85) Bromoform | 10.585 | 173 | 68384 | 52.57 | ug/L | 98 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 170788 | 53.43 | ug/L | 97 |
| 87) Isopropylbenzene | 10.756 | 105 | 540724 | 52.68 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 158745 | 322.63 | ug/L | 97 |
| 89) trans-1,4-Dichloro-2-B... | 11.061 | 53 | 44312 | 59.39 | ug/L | 86 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 178783 | 56.19 | ug/L | 98 |
| 92) Bromobenzene | 11.000 | 156 | 140664 | 50.22 | ug/L | 96 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 48903 | 49.85 | ug/L # | 85 |
| 94) n-Propylbenzene | 11.109 | 91 | 669061 | 54.18 | ug/L | 99 |
| 95) 2-Chlorotoluene | 11.170 | 91 | 382110 | 51.31 | ug/L | 99 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 379885 | 51.63 | ug/L | 97 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 449102 | 50.56 | ug/L | 98 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 452101 | 52.69 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 389021 | 51.67 | ug/L | 98 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 448990 | 52.55 | ug/L | 99 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 144099 | 52.50 | ug/L | 98 |
| 102) sec-Butylbenzene | 11.719 | 105 | 590257 | 54.23 | ug/L | 99 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 487917 | 52.53 | ug/L | 99 |
| 104) 1,3-Dclbenz | 11.798 | 146 | 256017 | 49.70 | ug/L | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6267.D
 Acq On : 28 Sep 2018 8:39 pm
 Operator : D.LIPANI
 Sample : R1809120-002DMS|1.0 Inst : MSVOA10
 Misc : APTIM 13429 T2
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 01 17:01:16 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,4-Dclbenz | 11.871 | 146 | 261362 | 48.05 | ug/L | 98 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 128940 | 52.68 | ug/L | 99 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 144847 | 51.23 | ug/L | 97 |
| 108) n-Butylbenzene | 12.170 | 91 | 482543 | 54.33 | ug/L | 99 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 249807 | 47.80 | ug/L | 99 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 30910 | 47.43 | ug/L | 87 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 651998 | 152.80 | ug/L | 98 |
| 112) 1,3,5-Trichlorobenzene | 12.969 | 180 | 193055 | 50.96 | ug/L | 99 |
| 113) Coelution Dichlorotoluene | 13.243 | 125 | 468280 | 99.39 | ug/L | 95 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 186956 | 50.33 | ug/L | 97 |
| 115) Hexachlorobt | 13.591 | 225 | 80698 | 49.69 | ug/L | 97 |
| 116) Naphthalen | 13.645 | 128 | 515451 | 53.52 | ug/L | 100 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 184543 | 50.52 | ug/L | 94 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 120901 | 52.14 | ug/L | 99 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 110675 | 50.69 | ug/L | 98 |

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

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6241.D
Acq On : 28 Sep 2018 9:24 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 09:38:40 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
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 | Pentafluorobenzene | 1.0000 | 1.0000 | 0.0 | 97 | 0.00 |
| 2 P | Dichlorodifluoromethane | 0.6676 | 0.7478 | -12.0 | 110 | 0.00 |
| 3 P | Chloromethane | 0.7292 | 0.8133 | -11.5 | 112 | 0.00 |
| 4 P | Vinyl Chloride | 0.7238 | 0.7454 | -3.0 | 104 | 0.00 |
| 5 P | Bromomethane | 0.6792 | 0.4253 | -27.5 | 37.4 # | 84 0.00 (1) |
| 6 P | Chloroethane | 0.4524 | 0.4720 | -4.3 | 103 | 0.00 |
| 7 | Freon 21 | 1.1058 | 1.1314 | -2.3 | 108 | 0.00 |
| 8 P | Trichlorofluoromethane | 0.8136 | 0.8059 | 0.9 | 102 | 0.00 |
| 9 | Diethyl Ether | 0.4606 | 0.5421 | -17.7 | 116 | 0.00 |
| 10 | Freon 123a | 0.6348 | 0.7060 | -11.2 | 121 | 0.00 |
| 11 | Freon 123 | 0.7045 | 0.7422 | -5.4 | 115 | 0.00 |
| 12 | Acrolein | 0.1486 | 0.1567 | -5.5 | 105 | 0.00 |
| 13 | 1,1-Dicethene | 0.4609 | 0.4964 | -7.7 | 108 | 0.00 |
| 14 P | Freon 113 | 0.4591 | 0.4990 | -8.7 | 111 | 0.00 |
| 15 P | Acetone | 0.2941 | 0.3677 | -25.0# | 129 | 0.00 (2) |
| 16 | 2-Propanol | 0.0569 | 0.0593 | -4.2 | 108 | -0.02 |
| 17 | Iodomethane | 0.5454 | 0.7399 | +19.5 | 35.7 # | 107 0.00 |
| 18 P | Carbon Disulfide | 1.2567 | 1.4575 | -16.0 | 111 | 0.00 |
| 19 | Acetonitrile | 0.1069 | 0.1283 | -20.0# | 126 | 0.00 |
| 20 | Allyl Chloride | 0.2247 | 0.2419 | -7.7 | 108 | 0.00 |
| 21 P | Methyl Acetate | 0.5862 | 0.7167 | -22.3# | 126 | 0.00 NT |
| 22 P | Methylene Chloride | 0.5377 | 0.5529 | -2.8 | 107 | 0.00 |
| 23 | TBA | 0.0852 | 0.0860 | -0.9 | 102 | 0.00 |
| 24 | Acrylonitrile | 0.2908 | 0.3437 | -18.2 | 119 | 0.00 |
| 25 P | Methyl-t-Butyl Ether | 1.7095 | 1.8155 | -6.2 | 106 | 0.00 |
| 26 P | trans-1,2-Dichloroethene | 0.4929 | 0.5253 | -6.6 | 104 | 0.00 |
| 27 P | 1,1-Dicethane | 0.9660 | 1.0924 | -13.1 | 113 | 0.00 |
| 28 | Vinyl Acetate | 0.1112 | 0.1164 | -4.7 | 105 | 0.00 |
| 29 | DIPE | 1.7888 | 2.4004 | -34.2# | 136 | 0.00 NT |
| 30 | 2-Chloro-1,3-Butadiene | 0.8303 | 1.0268 | -23.7# | 124 | 0.00 NT |
| 31 | ETBE | 1.6197 | 1.8205 | -12.4 | 114 | 0.00 |
| 32 | 2,2-Dichloropropane | 0.7364 | 0.6942 | 5.7 | 91 | 0.00 |
| 33 P | cis-1,2-Dichloroethene | 0.5493 | 0.5757 | -4.8 | 103 | 0.00 |
| 34 P | 2-Butanone | 0.3977 | 0.4905 | -23.3# | 131 | 0.00 (3) |
| 35 | Propionitrile | 0.1178 | 0.1325 | -12.5 | 116 | 0.00 |
| 36 | Bromochloromethane | 0.3394 | 0.3382 | 0.4 | 100 | 0.00 |
| 37 | Methacrylonitrile | 0.2835 | 0.3047 | -7.5 | 109 | 0.00 |
| 38 | Tetrahydrofuran | 0.2463 | 0.2890 | -17.3 | 120 | 0.00 |
| 39 P | Chloroform | 0.8846 | 0.9501 | -7.4 | 106 | 0.00 |
| 40 P | 1,1,1-Trichloroethane | 0.7469 | 0.7590 | -1.6 | 101 | 0.00 |
| 41 i | 1,4-Difluorobenzene | 1.0000 | 1.0000 | 0.0 | 99 | 0.00 |
| 42 P | Cyclohexane | 0.3672 | 0.4634 | -26.2# | 139 | 0.00 NT |
| 43 s | surr4,Dibrflmethane | 0.3369 | 0.3178 | 5.7 | 88 | 0.00 |
| 44 P | Carbontetrachloride | 0.3690 | 0.3639 | 1.4 | 96 | 0.00 |
| 45 | 1,1-Dichloropropene | 0.4674 | 0.4982 | -6.6 | 107 | 0.00 |
| 46 s | surr1,1,2-dichloroethane-d4 | 0.4431 | 0.4458 | -0.6 | 95 | 0.00 |
| 47 P | Benzene | 1.3327 | 1.4147 | -6.2 | 107 | 0.00 |
| 48 P | 1,2-Dichloroethane | 0.5302 | 0.5775 | -8.9 | 114 | 0.00 |
| 49 | Iso-Butyl Alcohol | 0.0249 | 0.0283 | -13.7 | 118 | -0.01 |
| 50 | TAME | 0.9798 | 1.0521 | -7.4 | 108 | 0.00 |
| 51 | n-Heptane | 0.4509 | 0.6209 | -37.7# | 137 | 0.00 NT |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6241.D
Acq On : 28 Sep 2018 9:24 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 09:38:40 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
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) | |
|------|-----------------------------|--------|--------|--------|----------------|----------|----|
| 52 | 1-Butanol | 0.0136 | 0.0152 | -11.8 | 112 | -0.01 | |
| 53 P | Trichloroethene | 0.3480 | 0.3371 | 3.1 | 101 | 0.00 | |
| 54 P | Methylcyclohexane | 0.4434 | 0.5487 | -23.7# | 132 | 0.00 | NT |
| 55 P | 1,2-Diclp propane | 0.3707 | 0.4172 | -12.5 | 112 | 0.00 | |
| 56 | Dibromomethane | 0.2205 | 0.2297 | -4.2 | 104 | 0.00 | |
| 57 | 1,4-Dioxane | 0.0064 | 0.0063 | 1.6 | 102 | 0.00 | |
| 58 | Methyl Methacrylate | 0.2904 | 0.3090 | -6.4 | 107 | 0.00 | |
| 59 P | Bromodichloromethane | 0.4109 | 0.4406 | -7.2 | 105 | 0.00 | |
| 60 | 2-Nitropropane | 0.0696 | 0.0913 | -31.2# | 132 | 0.00 | NT |
| 61 | 2-Chloroethylvinyl Ether | 0.2002 | 0.1954 | 2.4 | 95 | 0.00 | |
| 62 P | cis-1,3-Dichloropropene | 0.5039 | 0.5665 | -12.4 | 103 | 0.00 | |
| 63 P | 4-Methyl-2-pentanone | 0.4833 | 0.5824 | -20.5# | 122 | 0.00 | |
| 64 s | SURR3,Toluene-d8 | 1.3662 | 1.2873 | 5.8 | 89 | 0.00 | |
| 65 P | Toluene | 1.4326 | 1.5248 | -6.4 | 106 | 0.00 | |
| 66 P | trans-1,3-Dichloropropene | 0.4563 | 0.4847 | -6.2 | 98 | 0.00 | |
| 67 | Ethyl Methacrylate | 0.4749 | 0.5483 | -15.5 | 112 | 0.00 | |
| 68 P | 1,1,2-Trichloroethane | 0.3169 | 0.3256 | -2.7 | 104 | 0.00 | |
| 69 s | SURR2,BFB | 0.5250 | 0.5080 | 3.2 | 90 | 0.00 | |
| 70 i | d5-Chlorobenzene | 1.0000 | 1.0000 | 0.0 | 98 | 0.00 | |
| 71 P | Tetrachloroethene | 0.3110 | 0.3088 | 0.7 | 106 | 0.00 | |
| 72 P | 2-Hexanone | 0.4218 | 0.5013 | -18.8 | 124 | 0.00 | |
| 73 | 1,3-Dichloropropene | 0.6375 | 0.6999 | -9.8 | 109 | 0.00 | |
| 74 P | Dibromochloromethane | 0.3318 | 0.3436 | -3.6 | 100 | 0.00 | |
| 75 | N-Butyl Acetate | 0.7995 | 1.0075 | -26.0# | 126 | 0.00 | NT |
| 76 P | 1,2-Dibromoethane | 0.3669 | 0.3817 | -4.0 | 104 | 0.00 | |
| 77 | 3-Chlorobenzotrifluoride | 0.5609 | 0.6163 | -9.9 | 124 | 0.00 | |
| 78 P | Chlorobenzene | 1.0567 | 1.0800 | -2.2 | 104 | 0.00 | |
| 79 | 4-Chlorobenzotrifluoride | 0.4991 | 0.5483 | -9.9 | 123 | 0.00 | |
| 80 | 1,1,1,2-Tetrachloroethane | 0.3277 | 0.3337 | -1.8 | 98 | 0.00 | |
| 81 P | Ethylbenzene | 0.5533 | 0.5767 | -4.2 | 104 | 0.00 | |
| 82 P | (m+p)Xylene | 0.6878 | 0.7213 | -4.9 | 105 | 0.00 | |
| 83 P | o-Xylene | 0.6841 | 0.7041 | -2.9 | 104 | 0.00 | |
| 84 P | Styrene | 1.1007 | 1.1922 | -8.3 | 102 | 0.00 | |
| 85 P | Bromoform | 0.2127 | 0.2261 | +3.1 | 98 | 0.00 | |
| 86 | 2-Chlorobenzotrifluoride | 0.5409 | 0.6046 | -11.8 | 120 | 0.00 | |
| 87 P | Isopropylbenzene | 1.7367 | 1.8677 | -7.5 | 105 | 0.00 | |
| 88 | Cyclohexanone | 0.0833 | 0.1072 | -28.7# | 123 | 0.00 | NT |
| 89 | trans-1,4-Dichloro-2-Butene | 0.1183 | 0.1351 | +8.2 | 105 | 0.00 | |
| 90 i | 1,4-Dichlorobenzene-d4 | 1.0000 | 1.0000 | 0.0 | 96 | 0.00 | |
| 91 P | 1,1,2,2-Tetrachloroethane | 0.9501 | 1.0277 | -8.2 | 107 | 0.00 | |
| 92 | Bromobenzene | 0.8364 | 0.8496 | -1.6 | 101 | 0.00 | |
| 93 | 1,2,3-Trichloropropene | 0.2929 | 0.2967 | -1.3 | 98 | 0.00 | |
| 94 | n-Propylbenzene | 3.6871 | 4.1312 | -12.0 | 107 | 0.00 | |
| 95 | 2-Chlorotoluene | 2.2238 | 2.3551 | -5.9 | 105 | 0.00 | |
| 96 | 3-Chlorotoluene | 2.1968 | 2.4721 | -12.5 | 118 | 0.00 | |
| 97 | 4-Chlorotoluene | 2.6522 | 2.7566 | -3.9 | 102 | 0.00 | |
| 98 | 1,3,5-Trimethylbenzene | 2.5618 | 2.7857 | -8.7 | 103 | 0.00 | |
| 99 | tert-Butylbenzene | 2.2480 | 2.3618 | -5.1 | 102 | 0.00 | |
| 100 | 1,2,4-Trimethylbenzene | 2.5509 | 2.7738 | -8.7 | 104 | 0.00 | |
| 101 | 3,4-Dichlorobenzotrifluorid | 0.8195 | 0.9338 | -13.9 | 118 | 0.00 | |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6241.D
 Acq On : 28 Sep 2018 9:24 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:38:40 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 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) |
|-------|-----------------------------|--------|--------|-------|-------|----------|
| 102 | sec-Butylbenzene | 3.2497 | 3.6131 | -11.2 | 106 | 0.00 |
| 103 | p-Isopropyltoluene | 2.7735 | 3.0400 | -9.6 | 106 | 0.00 |
| 104 P | 1,3-Dclbenz | 1.5381 | 1.5774 | -2.6 | 101 | 0.00 |
| 105 P | 1,4-Dclbenz | 1.6241 | 1.6040 | 1.2 | 100 | 0.00 |
| 106 | 2,4-Dichlorobenzotrifluorid | 0.7307 | 0.8501 | -16.3 | 119 | 0.00 |
| 107 | 2,5-Dichlorobenzotrifluorid | 0.8442 | 0.9606 | -13.8 | 120 | 0.00 |
| 108 | n-Butylbenzene | 2.6519 | 2.9266 | -10.4 | 106 | 0.00 |
| 109 P | 1,2-Dclbenz | 1.5604 | 1.5562 | 0.3 | 101 | 0.00 |
| 110 P | 1,2-Dibromo-3-chloropropane | 0.1946 | 0.1800 | 7.5 | 89 | 0.00 |
| 111 | Trielution Dichlorotoluene | 1.2741 | 1.3939 | -9.4 | 111 | 0.00 |
| 112 | 1,3,5-Trichlorobenzene | 1.1311 | 1.2345 | -9.1 | 113 | 0.00 |
| 113 | Coelution Dichlorotoluene | 1.4068 | 1.5069 | -7.1 | 107 | 0.00 |
| 114 P | 1,2,4-Tcbenzene | 1.1092 | 1.1631 | -4.9 | 101 | 0.00 |
| 115 | Hexachlorobt | 0.4849 | 0.5288 | -9.1 | 104 | 0.00 |
| 116 | Naphthalen | 2.8757 | 3.0018 | -4.4 | 96 | 0.00 |
| 117 | 1,2,3-Tclbenzene | 1.0907 | 1.1056 | -1.4 | 100 | 0.00 |
| 118 | 2,4,5-Trichlorotoluene | 0.6924 | 0.8072 | -16.6 | 107 | 0.00 |
| 119 | 2,3,6-Trichlorotoluene | 0.6519 | 0.7173 | -10.0 | 108 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6241.D
Acq On : 28 Sep 2018 9:24 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 09:38:40 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|-------------------------------|--------|----------------|----------|---------|---------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 210430 | 50.00 | ug/L | 0.00 | |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 328097 | 50.00 | ug/L | 0.00 | |
| 70) d5-Chlorobenzene | 9.805 | 117 | 291551 | 50.00 | ug/L | 0.00 | |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 161881 | 50.00 | ug/L | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 43) surr4,Dibrflmethane | 5.244 | 113 | 104270 | 47.16 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 94.32% | | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 146273 | 50.31 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 100.62% | | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 422374 | 47.12 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 94.24% | | |
| 69) SURR2,BFB | 10.877 | 95 | 166667 | 48.38 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 96.76% | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 157356 | 56.00 | ug/L | | 98 |
| 3) Chloromethane | 1.282 | 50 | 171141 | 55.77 | ug/L | | 96 |
| 4) Vinyl Chloride | 1.361 | 62 | 156849 | 51.49 | ug/L | | 99 |
| 5) Bromomethane | 1.587 | 94 | 89500 | 36.23 | ug/L | | 95 |
| 6) Chloroethane | 1.666 | 64 | 99318 | 52.16 | ug/L | | 97 |
| 7) Freon 21 | 1.812 | 67 | 238076 | 51.16 | ug/L | | 98 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 169587 | 49.53 | ug/L | | 99 |
| 9) Diethyl Ether | 2.093 | 59 | 114082 | 58.85 | ug/L | | 91 |
| 10) Freon 123a | 2.099 | 67 | 148555 | 55.61 | ug/L | | 95 |
| 11) Freon 123 | 2.147 | 83 | 156190 | 52.68 | ug/L | | 98 |
| 12) Acrolein | 2.196 | 56 | 164856 | 263.55 | ug/L | | 96 |
| 13) 1,1-Diclcethene | 2.282 | 96 | 104460 | 53.86 | ug/L | | 99 |
| 14) Freon 113 | 2.288 | 101 | 105003 | 54.34 | ug/L | | 98 |
| 15) Acetone | 2.324 | 43 | 77385 | 62.51 | ug/L | | 93 |
| 16) 2-Propanol | 2.464 | 45 | 249594 | 1042.75 | ug/L | | 94 |
| 17) Iodomethane | 2.416 | 142 | 155699 | 59.76 | ug/L | | 99 |
| 18) Carbon Disulfide | 2.477 | 76 | 306711 | 57.99 | ug/L | | 100 |
| 19) Acetonitrile | 2.580 | 41 | 135033 | 300.07 | ug/L | | 92 |
| 20) Allyl Chloride | 2.617 | 76 | 50909 | 53.84 | ug/L | # | 83 |
| 21) Methyl Acetate | 2.641 | 43 | 150823 | 61.13 | ug/L | | 95 |
| 22) Methylene Chloride | 2.733 | 84 | 116338 | 51.41 | ug/L | | 90 |
| 23) TBA | 2.867 | 59 | 361977 | 1009.53 | ug/L | | 93 |
| 24) Acrylonitrile | 2.989 | 53 | 361656 | 295.53 | ug/L | | 97 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 382046 | 53.10 | ug/L | | 97 |
| 26) trans-1,2-Dichloroethene | 3.031 | 96 | 110541 | 53.29 | ug/L | | 96 |
| 27) 1,1-Diclcethane | 3.525 | 63 | 229880 | 56.54 | ug/L | | 99 |
| 28) Vinyl Acetate | 3.623 | 86 | 24492 | 52.33 | ug/L | # | 31 |
| 29) DIPE | 3.653 | 45 | 505126 | 67.10 | ug/L | | 94 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 216068 | 61.83 | ug/L | | 91 |
| 31) ETBE | 4.184 | 59 | 383092 | 56.20 | ug/L | | 97 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 146079 | 47.14 | ug/L | | 98 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 121141 | 52.40 | ug/L | | 95 |
| 34) 2-Butanone | 4.415 | 43 | 103210 | 61.67 | ug/L | | 93 |
| 35) Propionitrile | 4.501 | 54 | 139401 | 281.15 | ug/L | | 95 |
| 36) Bromochloromethane | 4.769 | 130 | 71162 | 49.82 | ug/L | # | 86 |
| 37) Methacrylonitrile | 4.769 | 67 | 64118 | 53.75 | ug/L | # | 74 |
| 38) Tetrahydrofuran | 4.860 | 42 | 60814 | 58.67 | ug/L | | 87 |
| 39) Chloroform | 4.952 | 83 | 199924 | 53.70 | ug/L | | 95 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 159710 | 50.81 | ug/L | | 95 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
Data File : D6241.D
Acq On : 28 Sep 2018 9:24 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 09:38:40 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.336 | 41 | 152040 | 63.10 | ug/L | 99 |
| 44) Carbontetrachloride | 5.531 | 117 | 119384 | 49.30 | ug/L | 96 |
| 45) 1,1-Dichloropropene | 5.549 | 75 | 163472 | 53.30 | ug/L | 97 |
| 47) Benzene | 5.866 | 78 | 464171 | 53.08 | ug/L | 94 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 189479 | 54.46 | ug/L | 98 |
| 49) Iso-Butyl Alcohol | 5.885 | 43 | 185454 | 1137.26 | ug/L | 99 |
| 50) TAME | 6.104 | 73 | 345205 | 53.69 | ug/L | 94 |
| 51) n-Heptane | 6.360 | 43 | 203726 | 68.85 | ug/L | 92 |
| 52) 1-Butanol | 6.854 | 56 | 249925 | 2769.47 | ug/L | 94 |
| 53) Trichloroethene | 6.817 | 130 | 110589 | 48.43 | ug/L | 96 |
| 54) Methylcyclohexane | 7.055 | 55 | 180021 | 61.87 | ug/L | 94 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 136883 | 56.27 | ug/L | 99 |
| 56) Dibromomethane | 7.238 | 93 | 75353 | 52.08 | ug/L | 85 |
| 57) 1,4-Dioxane | 7.305 | 88 | 41498 | 986.02 | ug/L | 95 |
| 58) Methyl Methacrylate | 7.329 | 69 | 101384 | 53.20 | ug/L | 90 |
| 59) Bromodichloromethane | 7.470 | 83 | 144570 | 53.62 | ug/L | 96 |
| 60) 2-Nitropropane | 7.750 | 41 | 59903 | 131.18 | ug/L | 98 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 64104 | 48.80 | ug/L | 90 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 185852 | 56.21 | ug/L | 98 |
| 63) 4-Methyl-2-pentanone | 8.219 | 43 | 191069 | 60.24 | ug/L | 93 |
| 65) Toluene | 8.384 | 91 | 500296 | 53.22 | ug/L | 98 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 159026 | 53.11 | ug/L | 99 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 179884 | 57.72 | ug/L | 92 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 106816 | 51.37 | ug/L | 94 |
| 71) Tetrachloroethene | 8.975 | 164 | 90037 | 49.66 | ug/L | 98 |
| 72) 2-Hexanone | 9.134 | 43 | 146156 | 59.43 | ug/L | 96 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 204066 | 54.90 | ug/L | 92 |
| 74) Dibromochloromethane | 9.238 | 129 | 100173 | 51.78 | ug/L | 98 |
| 75) N-Butyl Acetate | 9.292 | 43 | 293749 | 63.01 | ug/L | 92 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 111288 | 52.01 | ug/L | 98 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 179691 | 54.94 | ug/L | 98 |
| 78) Chlorobenzene | 9.829 | 112 | 314889 | 51.11 | ug/L | 98 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 159851 | 54.92 | ug/L | 98 |
| 80) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 97293 | 50.92 | ug/L | 98 |
| 81) Ethylbenzene | 9.951 | 106 | 168150 | 52.11 | ug/L | 94 |
| 82) (m+p)Xylene | 10.061 | 106 | 420612 | 104.87 | ug/L | 96 |
| 83) o-Xylene | 10.420 | 106 | 205271 | 51.46 | ug/L | 98 |
| 84) Styrene | 10.432 | 104 | 347586 | 54.16 | ug/L | 96 |
| 85) Bromoform | 10.585 | 173 | 65919 | 51.55 | ug/L | 94 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 176261 | 55.89 | ug/L | 98 |
| 87) Isopropylbenzene | 10.756 | 105 | 544521 | 53.77 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 624965 | 1287.43 | ug/L | 94 |
| 89) trans-1,4-Dichloro-2-B... | 11.066 | 53 | 39398 | 54.11 | ug/L | 93 |
| 91) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 166365 | 54.08 | ug/L | 99 |
| 92) Bromobenzene | 10.999 | 156 | 137537 | 50.79 | ug/L | 94 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 48022 | 50.64 | ug/L # | 90 |
| 94) n-Propylbenzene | 11.109 | 91 | 668757 | 56.02 | ug/L | 98 |
| 95) 2-Chlorotoluene | 11.176 | 91 | 381254 | 52.95 | ug/L | 100 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 400192 | 56.27 | ug/L | 98 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 446242 | 51.97 | ug/L | 98 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 450959 | 54.37 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 382324 | 52.53 | ug/L | 98 |
| 100) 1,2,4-Trimethylbenzene | 11.572 | 105 | 449026 | 54.37 | ug/L | 100 |
| 101) 3,4-Dichlorobenzotrifl... | 11.633 | 214 | 151157 | 56.97 | ug/L | 96 |
| 102) sec-Butylbenzene | 11.719 | 105 | 584888 | 55.59 | ug/L | 97 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 492114 | 54.80 | ug/L | 98 |

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6241.D
 Acq On : 28 Sep 2018 9:24 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:38:40 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

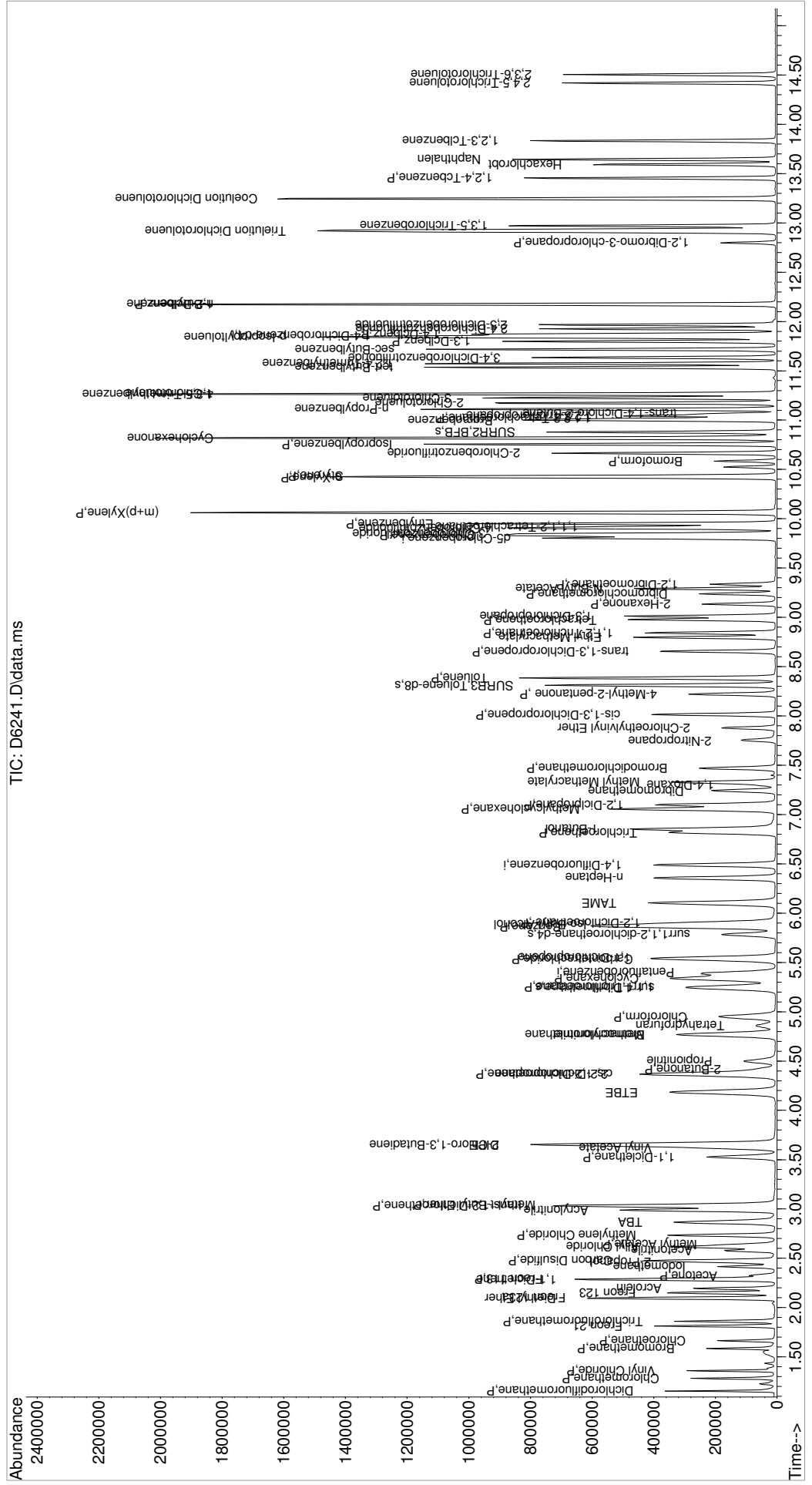
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 255343 | 51.27 | ug/L | 99 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 259655 | 49.38 | ug/L | 97 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 137608 | 58.16 | ug/L | 97 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 155499 | 56.89 | ug/L | 97 |
| 108) n-Butylbenzene | 12.176 | 91 | 473768 | 55.18 | ug/L | 97 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 251916 | 49.86 | ug/L | 99 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 29138 | 46.25 | ug/L | 95 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 676957 | 164.11 | ug/L | 99 |
| 112) 1,3,5-Trichlorobenzene | 12.975 | 180 | 199845 | 54.57 | ug/L | 98 |
| 113) Coelution Dichlorotoluene | 13.249 | 125 | 487870 | 107.12 | ug/L | 95 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 188281 | 52.43 | ug/L | 98 |
| 115) Hexachlorobt | 13.590 | 225 | 85601 | 54.53 | ug/L | 98 |
| 116) Naphthalen | 13.645 | 128 | 485929 | 52.19 | ug/L | 100 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 178971 | 50.68 | ug/L | 98 |
| 118) 2,4,5-Trichlorotoluene | 14.419 | 159 | 130667 | 58.29 | ug/L | 98 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 116113 | 55.02 | ug/L | 98 |

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

Data Path : I:\ACQDATA\msvoa10\data\092818\
Data File : D6241.D
Acq On : 28 Sep 2018 9:24 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 28 09:38:40 2018
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

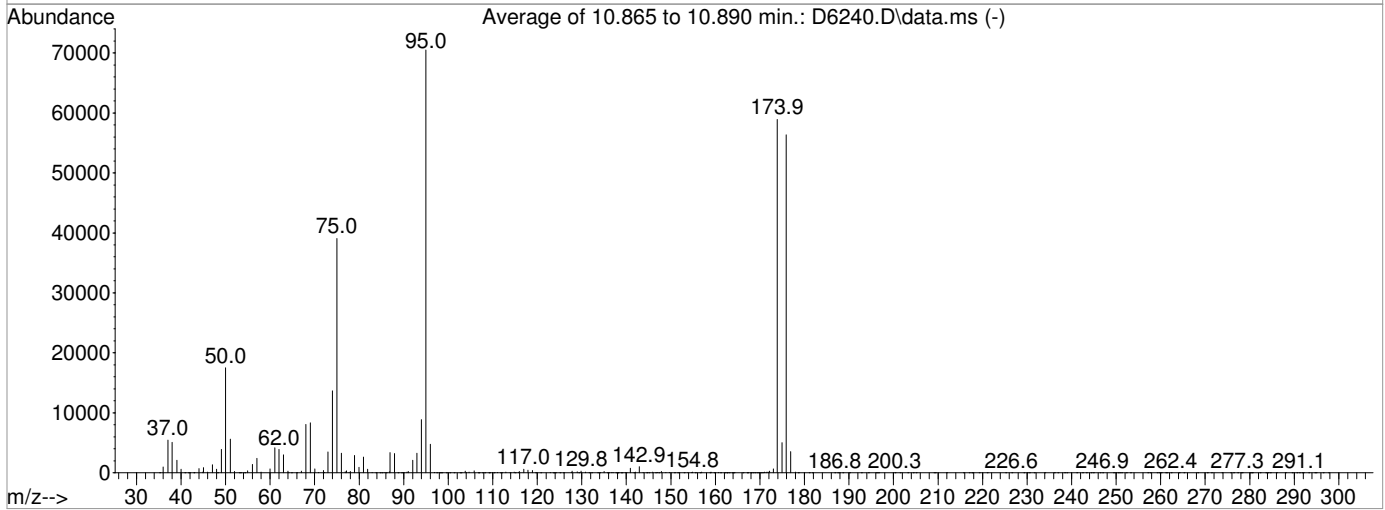
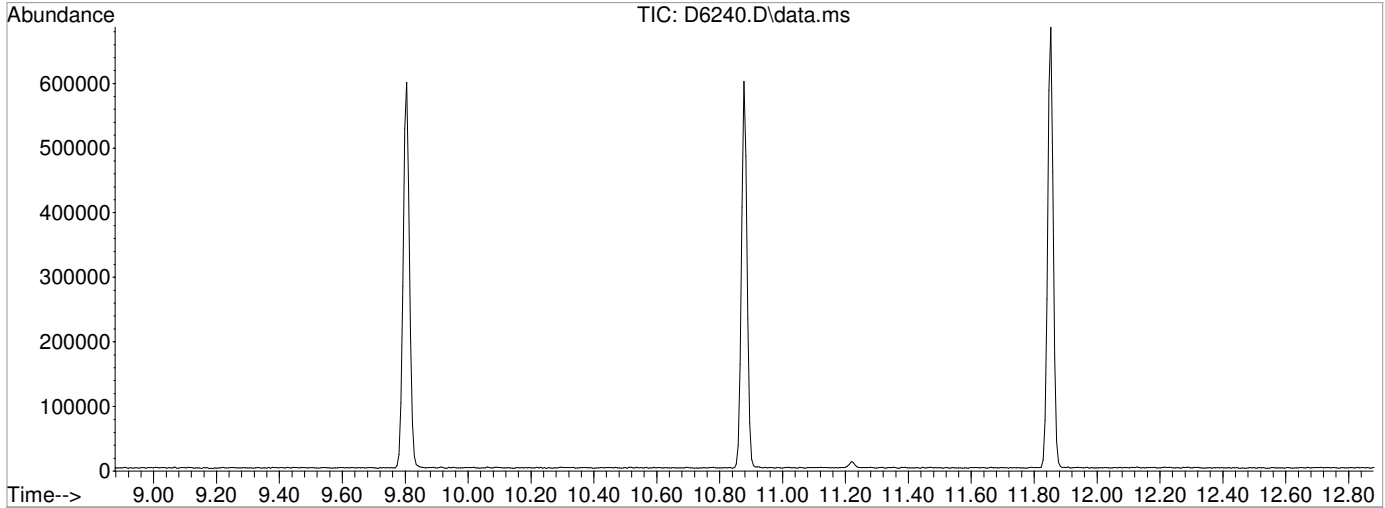


1st DL 10/01/18
2nd FU 10/02/18

Data Path : I:\ACQUDATA\msvoa10\data\092818\
 Data File : D6240.D
 Acq On : 28 Sep 2018 8:46 am
 Operator : D.LIPANI
 Sample : TUNE CHECK Inst : MSVOA10
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Title : MS#10 - 8260B WATERS 5.0mL Purge
 Last Update : Wed Aug 22 12:58:20 2018



Spectrum Information: Average of 10.865 to 10.890 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 24.9 | 17532 | PASS |
| 75 | 95 | 30 | 60 | 55.4 | 39074 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 70496 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 4758 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 655 | PASS |
| 174 | 95 | 50 | 120 | 83.6 | 58931 | PASS |
| 175 | 174 | 5 | 9 | 8.6 | 5041 | PASS |
| 176 | 174 | 95 | 101 | 95.6 | 56347 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 3517 | PASS |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|------------------|--|------------------|
| 09 | RC1800095-09 | STD #1 - 0.5 PPB | I:\ACQUADATA\msvoa10\data\082118\D5431.D | 08/21/2018 14:58 |
| 08 | RC1800095-08 | STD #2 - 1.0 PPB | I:\ACQUADATA\msvoa10\data\082118\D5432.D | 08/21/2018 15:20 |
| 07 | RC1800095-07 | STD #3 - 2.0 PPB | I:\ACQUADATA\msvoa10\data\082118\D5433.D | 08/21/2018 15:42 |
| 06 | RC1800095-06 | STD #4 - 5.0 PPB | I:\ACQUADATA\msvoa10\data\082118\D5434.D | 08/21/2018 16:03 |
| 05 | RC1800095-05 | STD #5 - 20 PPB | I:\ACQUADATA\msvoa10\data\082118\D5435.D | 08/21/2018 16:25 |
| 04 | RC1800095-04 | STD #6 - 50 PPB | I:\ACQUADATA\msvoa10\data\082118\D5436.D | 08/21/2018 16:47 |
| 03 | RC1800095-03 | STD #7 - 100 PPB | I:\ACQUADATA\msvoa10\data\082118\D5437.D | 08/21/2018 17:09 |
| 02 | RC1800095-02 | STD #8 - 150 PPB | I:\ACQUADATA\msvoa10\data\082118\D5438.D | 08/21/2018 17:31 |
| 01 | RC1800095-01 | STD #9 - 200 PPB | I:\ACQUADATA\msvoa10\data\082118\D5439.D | 08/21/2018 17:53 |

Analyte

1,1,1-Trichloroethane (TCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.8757 | 08 | 1.000 | 0.7331 | 07 | 2.000 | 0.7119 | 06 | 5.000 | 0.7032 |
| 05 | 20.000 | 0.7316 | 04 | 50.000 | 0.728 | 03 | 100.000 | 0.751 | 02 | 150.000 | 0.746 |
| 01 | 200.000 | 0.7416 | | | | | | | | | |

1,1-Dichloroethane (1,1-DCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 1.046 | 08 | 1.000 | 0.985 | 07 | 2.000 | 0.9764 | 06 | 5.000 | 0.943 |
| 05 | 20.000 | 0.9708 | 04 | 50.000 | 0.9369 | 03 | 100.000 | 0.9651 | 02 | 150.000 | 0.9414 |
| 01 | 200.000 | 0.9299 | | | | | | | | | |

1,1-Dichloroethene (1,1-DCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.5024 | 08 | 1.000 | 0.437 | 07 | 2.000 | 0.4419 | 06 | 5.000 | 0.4712 |
| 05 | 20.000 | 0.4629 | 04 | 50.000 | 0.4463 | 03 | 100.000 | 0.4632 | 02 | 150.000 | 0.4637 |
| 01 | 200.000 | 0.4592 | | | | | | | | | |

4-Bromofluorobenzene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|--------|----|---------|--------|
| 06 | 10.000 | 0.5925 | 05 | 20.000 | 0.4991 | 04 | 50.000 | 0.5551 | 03 | 100.000 | 0.4954 |
| 02 | 200.000 | 0.483 | | | | | | | | | |

Dibromofluoromethane

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|--------|----|---------|--------|
| 06 | 10.000 | 0.3863 | 05 | 20.000 | 0.3219 | 04 | 50.000 | 0.3561 | 03 | 100.000 | 0.3143 |
| 02 | 200.000 | 0.3062 | | | | | | | | | |

Tetrachloroethene (PCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.3572 | 08 | 1.000 | 0.3121 | 07 | 2.000 | 0.3045 | 06 | 5.000 | 0.279 |
| 05 | 20.000 | 0.301 | 04 | 50.000 | 0.2871 | 03 | 100.000 | 0.309 | 02 | 150.000 | 0.3241 |
| 01 | 200.000 | 0.3245 | | | | | | | | | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

Analyte

Toluene-d8

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|-------|----|--------|-------|----|--------|-------|----|---------|-------|
| 06 | 10.000 | 1.643 | 05 | 20.000 | 1.284 | 04 | 50.000 | 1.427 | 03 | 100.000 | 1.269 |
| 02 | 200.000 | 1.207 | | | | | | | | | |

Trichloroethene (TCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.3826 | 08 | 1.000 | 0.3369 | 07 | 2.000 | 0.3521 | 06 | 5.000 | 0.3404 |
| 05 | 20.000 | 0.3566 | 04 | 50.000 | 0.3304 | 03 | 100.000 | 0.3431 | 02 | 150.000 | 0.3452 |
| 01 | 200.000 | 0.3448 | | | | | | | | | |

Vinyl Chloride

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.7256 | 08 | 1.000 | 0.7718 | 07 | 2.000 | 0.7174 | 06 | 5.000 | 0.7172 |
| 05 | 20.000 | 0.7297 | 04 | 50.000 | 0.6977 | 03 | 100.000 | 0.7117 | 02 | 150.000 | 0.7269 |
| 01 | 200.000 | 0.716 | | | | | | | | | |

cis-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.5299 | 08 | 1.000 | 0.5929 | 07 | 2.000 | 0.5369 | 06 | 5.000 | 0.5306 |
| 05 | 20.000 | 0.5602 | 04 | 50.000 | 0.5423 | 03 | 100.000 | 0.5614 | 02 | 150.000 | 0.5452 |
| 01 | 200.000 | 0.544 | | | | | | | | | |

trans-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.5259 | 08 | 1.000 | 0.4833 | 07 | 2.000 | 0.4621 | 06 | 5.000 | 0.4805 |
| 05 | 20.000 | 0.5014 | 04 | 50.000 | 0.4907 | 03 | 100.000 | 0.5051 | 02 | 150.000 | 0.4941 |
| 01 | 200.000 | 0.4929 | | | | | | | | | |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

**Initial Calibration Summary
Volatile Organic Compounds by GC/MS**

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

| Analyte Name | Compound Type | Calibration Evaluation | | | | Calibration Evaluation | |
|------------------------------|---------------|------------------------|-------|-------------|------------------|------------------------|-------------|
| | | Fit Type | Eval | Eval Result | Control Criteria | Average RRF | Minimum RRF |
| 1,1,1-Trichloroethane (TCA) | TRG | Average RF | % RSD | 6.8 | 20 | 0.7469 | 0.100 |
| 1,1-Dichloroethane (1,1-DCA) | TRG | Average RF | % RSD | 3.7 | 20 | 0.966 | 0.200 |
| 1,1-Dichloroethene (1,1-DCE) | TRG | Average RF | % RSD | 4.2 | 20 | 0.4609 | 0.100 |
| 4-Bromofluorobenzene | SURR | Average RF | % RSD | 8.9 | 20 | 0.525 | |
| Dibromofluoromethane | SURR | Average RF | % RSD | 9.9 | 20 | 0.3369 | |
| Tetrachloroethene (PCE) | TRG | Average RF | % RSD | 7.4 | 20 | 0.311 | 0.200 |
| Toluene-d8 | SURR | Average RF | % RSD | 12.8 | 20 | 1.366 | |
| Trichloroethene (TCE) | TRG | Average RF | % RSD | 4.3 | 20 | 0.348 | 0.200 |
| Vinyl Chloride | TRG | Average RF | % RSD | 2.8 | 20 | 0.7238 | 0.100 |
| cis-1,2-Dichloroethene | TRG | Average RF | % RSD | 3.6 | 20 | 0.5493 | 0.100 |
| trans-1,2-Dichloroethene | TRG | Average RF | % RSD | 3.6 | 20 | 0.4929 | 0.100 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|-------------|--|------------------|
| 10 | RC1800095-10 | ICV 50 | I:\ACQUADATA\msvoa10\data\082118\D5444.D | 08/21/2018 19:42 |
| 11 | RC1800095-11 | ICV | I:\ACQUADATA\msvoa10\data\082218\D5449.D | 08/22/2018 10:27 |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|----------|--------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 46.8 | 7.469E-1 | 6.992E-1 | -6.384 | ±30 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 47.9 | 9.66E-1 | 9.252E-1 | -4.230 | ±30 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 45.3 | 4.609E-1 | 4.177E-1 | -9.370 | ±30 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 46.5 | 3.11E-1 | 2.889E-1 | -7.081 | ±30 | Average RF |
| Trichloroethene (TCE) | 50.0 | 47.8 | 3.48E-1 | 3.326E-1 | -4.434 | ±30 | Average RF |
| Vinyl Chloride | 50.0 | 45.0 | 7.238E-1 | 6.516E-1 | -9.969 | ±30 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 47.2 | 5.493E-1 | 5.185E-1 | -5.601 | ±30 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 47.5 | 4.929E-1 | 4.686E-1 | -4.932 | ±30 | Average RF |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|----------------------|----------|--------|------------|----------|------|----------|------------|
| 4-Bromofluorobenzene | 50.0 | 52.8 | 5.25E-1 | 5.542E-1 | 5.55 | ±30 | Average RF |
| Dibromofluoromethane | 50.0 | 52.4 | 3.369E-1 | 3.53E-1 | 4.76 | ±30 | Average RF |
| Toluene-d8 | 50.0 | 53.0 | 1.366E0 | 1.449E0 | 6.03 | ±30 | Average RF |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120
Date Analyzed: 09/28/18 09:24

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa10\data\092818\D6241.D\
Signal ID: 1

Calibration Date: 8/21/2018
Calibration ID: RC1800095
Analysis Lot: 608727
Units: ug/L

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|------|---------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 50.8 | 0.7469 | 0.759 | 1.6 | NA | ±20 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 56.5 | 0.966 | 1.0924 | 13.1 | NA | ±20 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 53.9 | 0.4609 | 0.4964 | 7.7 | NA | ±20 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 49.7 | 0.311 | 0.3088 | -0.7 | NA | ±20 | Average RF |
| Trichloroethene (TCE) | 50.0 | 48.4 | 0.348 | 0.3371 | -3.1 | NA | ±20 | Average RF |
| Vinyl Chloride | 50.0 | 51.5 | 0.7238 | 0.7454 | 3.0 | NA | ±20 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 52.4 | 0.5493 | 0.5757 | 4.8 | NA | ±20 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 53.3 | 0.4929 | 0.5253 | 6.6 | NA | ±20 | Average RF |

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|----------------------|----------|--------|------------|--------|------|---------|----------|------------|
| 4-Bromofluorobenzene | 50.0 | 48.4 | 0.525 | 0.508 | -3.2 | NA | ±20 | Average RF |
| Dibromofluoromethane | 50.0 | 47.2 | 0.3369 | 0.3178 | -5.7 | NA | ±20 | Average RF |
| Toluene-d8 | 50.0 | 47.1 | 1.3662 | 1.2873 | -5.8 | NA | ±20 | Average RF |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:608727
Instrument ID:R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|-------------------------------------|--------------|---------------|---------------|---|
| I:\ACQUDATA\msvoa10\data\092818\D6240.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 08:46:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6241.D\ | Continuing Calibration Verification | RQ1810434-02 | 9/28/2018 | 09:24:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6242.D\ | Lab Control Sample | RQ1810434-03 | 9/28/2018 | 10:13:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6244.D\ | Method Blank | RQ1810434-04 | 9/28/2018 | 11:05:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6245.D\ | Trip Blank - 092018 | R1809120-001 | 9/28/2018 | 11:34:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6246.D\ | FB-092018 | R1809120-011 | 9/28/2018 | 11:56:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6247.D\ | MW-10 | R1809120-002 | 9/28/2018 | 12:18:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6248.D\ | MW-13 | R1809120-003 | 9/28/2018 | 12:40:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6249.D\ | DMW-3 | R1809120-004 | 9/28/2018 | 13:01:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6250.D\ | TMP-A | R1809120-007 | 9/28/2018 | 13:23:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6251.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 13:45:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6252.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 14:07:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6254.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 14:51:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6255.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 15:12:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6256.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 16:32:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6257.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 16:59:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6258.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 17:23:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6260.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 18:07:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6261.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 18:29:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6262.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 18:50:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6264.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 19:34:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6265.D\ | ZZZZZZZ | ZZZZZZZ | 9/28/2018 | 19:56:00 | |
| I:\ACQUDATA\msvoa10\data\092818\D6266.D\ | MW-10 MS | RQ1810434-05 | 9/28/2018 | 20:18:00 | |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:608727
Instrument ID:R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|--------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUDATA\msvoa10\data\092818 \D6267.D\ | MW-10 DMS | RQ1810434-06 | 9/28/2018 | 20:39:00 | |

Analysis: 8260C Analyst: [Signature] pH strips: Hyd 204018 Tune Method: W08218.M
 Date: 9/28/18 Balance ID: _____ ResCl strips: _____ Run Method: ↓
 Instr: MS#10 50 mL Class A used for dilution FV Syringes: 181117 LIMS Run#: 608727

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Tier | Vial | pH | File# | OK? | Comments |
|-------|----------------|-------|------------------------|----|------|------|----|-------|------|--|
| 1 | Time Check | | | | | | | D6240 | Y | |
| 2 | CCV | | (Run as a B/K) | | | | | 41 | Y | Acetone + MEK ↑ |
| 3 | LCS-Acid | | | | | | | 42 | Y | |
| 4 | B/K | | | | | | | 43 | N | |
| 5 | Met B/K | | | | | | | 44 | Y | |
| 6 | R1809120-001 | 1.0 | | | | | | 45 | Y | |
| 7 | -011 | 1.0 | | | | | | 46 | Y | |
| 8 | -002 | 1.0 | | | | | | 47 | Y | |
| 9 | -003 | 1.0 | | | | | | 48 | Y | |
| 10 | -004 | 1.0 | | | | | | 49 | Y | |
| 11 | -007 | 1.0 | | | | | | D6250 | Y | |
| 12 | R1809119-002 | 1.0 | | | | | | 51 | Y | rpt 1/5 VC, MeCl ₂ , cisTCE all ↑ |
| 13 | -004 | 2.0 | 25mL/50mL | | | | | 52 | Y | |
| 14 | B/K | | | | | | | 53 | O.K. | |
| 15 | R1809119-001 | 2.5 | 20mL/50mL | | | | | 54 | Y | rpt 1/10 VC, MeCl ₂ , TCE ↑ |
| 16 | -003 | 250 | 1.0mL/250mL | | | | | 55 | Y | rpt 1/500 cis ↑ |
| 17 | -003 | 500 | 1.0mL/100mL; 10mL/50mL | | | | | 56 | Y | = DL |
| 18 | -002 | 5.0 | 10mL/50mL | | | | | 57 | Y | = DL slight weak |
| 19 | -001 | 10 | 5.0mL/50mL | | | | | 58 | Y | = DL |
| 20 | B/K | | | | | | | 59 | O.K. | |
| 21 | R1809051-003 | 1.0 | | | | | | D6260 | Y | |
| 22 | -001 | 1.0 | | | | | | 61 | Y | |
| 23 | -002 | 2.0 | 25mL/50mL | | | | | 62 | Y | |
| 24 | -002 | 5.0 | 10mL/50mL | | | | | 63 | O.K. | not needed |
| 25 | R1809052-001 | 2.0 | 25mL/50mL | | | | | 64 | Y | rpt 1/10 VC, Tel, CB, 2-CT ↑ |
| 26 | -001 | 10 | 5.0mL/50mL | | | | | 65 | Y | = DL |
| 27 | R1809120-002MS | 1.0 | | | | | | 66 | Y | |
| 28 | -002BMS | 1.0 | | | | | | 67 | Y | |
| 29 | B/K | | | | | | | 68 | O.K. | |
| 30 | High Gaseous | | | | | | | 69 | Y | |
| 31-43 | B/K S | | | | | | | D6270 | Y | |

All samples = 5.0 mL + 5.0 mL combined IS/Surr. 5.0 mL purged

Primary TG: 193538 5.0mL
 Primary HSL: 193469
 Primary OCC: 193366
 Primary Fr+: 193220

Secondary TG: 193547 2.0mL
 Secondary HSL: 193388
 Secondary OCC: 191355
 Secondary Fr+: 193559 5.0mL

Combined IS/Surr: _____
 Surrogate 50: 193101
 Internal Std 50: 193099
 Reagents: _____

50mL DI / CV
 50mL High Gaseous
 50mL = MS/BMS
 O-996 Page 27
 Runlog-MSV0A4 1/17/17

ALS Group USA, Corp.
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Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 12:14
Date Received: 09/21/18 09:50

Sample Name: MW-17
Lab Code: R1809120-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.5 | 1.0 | 0.25 | 1 | 09/24/18 17:38 | |
| 1,1-Dichloroethane (1,1-DCA) | 7.1 | 1.0 | 0.20 | 1 | 09/24/18 17:38 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 17:38 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 17:38 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 17:38 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 17:38 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 17:38 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 17:38 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 09/24/18 17:38 | |
| Dibromofluoromethane | 97 | 89 - 119 | 09/24/18 17:38 | |
| Toluene-d8 | 99 | 87 - 121 | 09/24/18 17:38 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 12:23
Date Received: 09/21/18 09:50

Sample Name: MW-16
Lab Code: R1809120-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/24/18 18:00 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 18:00 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 18:00 | |
| Tetrachloroethene (PCE) | 160 | 1.0 | 0.28 | 1 | 09/24/18 18:00 | |
| Trichloroethene (TCE) | 1.6 | 1.0 | 0.20 | 1 | 09/24/18 18:00 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 18:00 | |
| cis-1,2-Dichloroethene | 1.5 | 1.0 | 0.26 | 1 | 09/24/18 18:00 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 18:00 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 86 | 85 - 122 | 09/24/18 18:00 | |
| Dibromofluoromethane | 93 | 89 - 119 | 09/24/18 18:00 | |
| Toluene-d8 | 95 | 87 - 121 | 09/24/18 18:00 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 15:18
Date Received: 09/21/18 09:50

Sample Name: MW-9
Lab Code: R1809120-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.42 J | 1.0 | 0.25 | 1 | 09/25/18 12:53 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/18 12:53 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/25/18 12:53 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/25/18 12:53 | |
| Trichloroethene (TCE) | 17 | 1.0 | 0.20 | 1 | 09/25/18 12:53 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/25/18 12:53 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/25/18 12:53 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/25/18 12:53 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/25/18 12:53 | |
| Dibromofluoromethane | 95 | 89 - 119 | 09/25/18 12:53 | |
| Toluene-d8 | 96 | 87 - 121 | 09/25/18 12:53 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 15:30
Date Received: 09/21/18 09:50

Sample Name: MW-8
Lab Code: R1809120-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.62 J | 1.0 | 0.25 | 1 | 09/24/18 18:44 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.1 | 1.0 | 0.20 | 1 | 09/24/18 18:44 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 18:44 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 18:44 | |
| Trichloroethene (TCE) | 8.7 | 1.0 | 0.20 | 1 | 09/24/18 18:44 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 18:44 | |
| cis-1,2-Dichloroethene | 11 | 1.0 | 0.26 | 1 | 09/24/18 18:44 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 18:44 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 09/24/18 18:44 | |
| Dibromofluoromethane | 98 | 89 - 119 | 09/24/18 18:44 | |
| Toluene-d8 | 99 | 87 - 121 | 09/24/18 18:44 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18 15:35
Date Received: 09/21/18 09:50

Sample Name: MW-11
Lab Code: R1809120-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|--------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.25 | 1 | 09/24/18 19:30 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 19:30 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:30 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:30 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/24/18 19:30 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 19:30 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 19:30 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 19:30 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 88 | 85 - 122 | 09/24/18 19:30 | |
| Dibromofluoromethane | 92 | 89 - 119 | 09/24/18 19:30 | |
| Toluene-d8 | 97 | 87 - 121 | 09/24/18 19:30 | |

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003
Sample Matrix: Water

Service Request: R1809120
Date Collected: 09/20/18
Date Received: 09/21/18 09:50

Sample Name: DUP-092018
Lab Code: R1809120-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

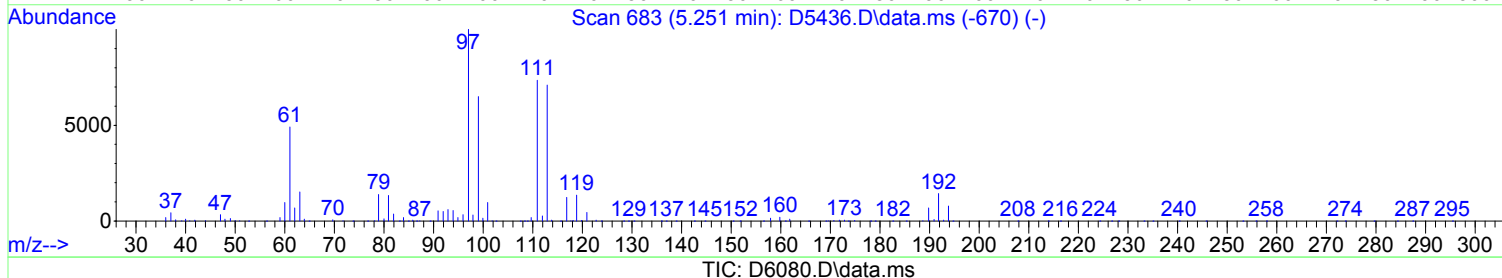
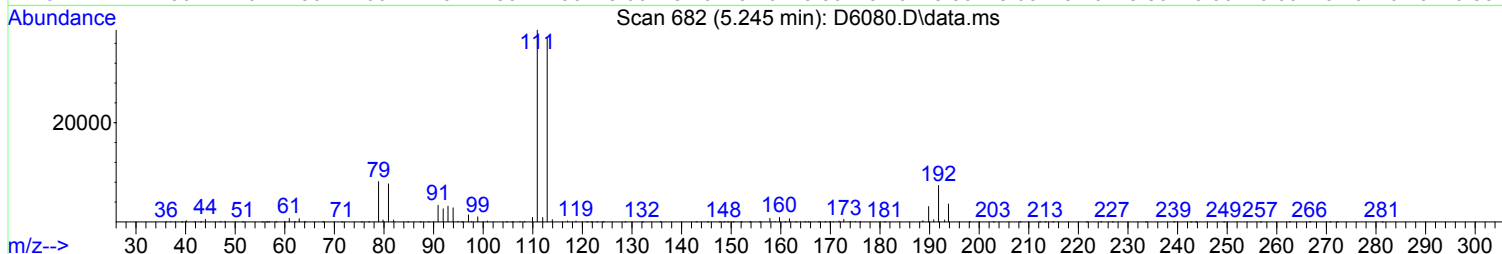
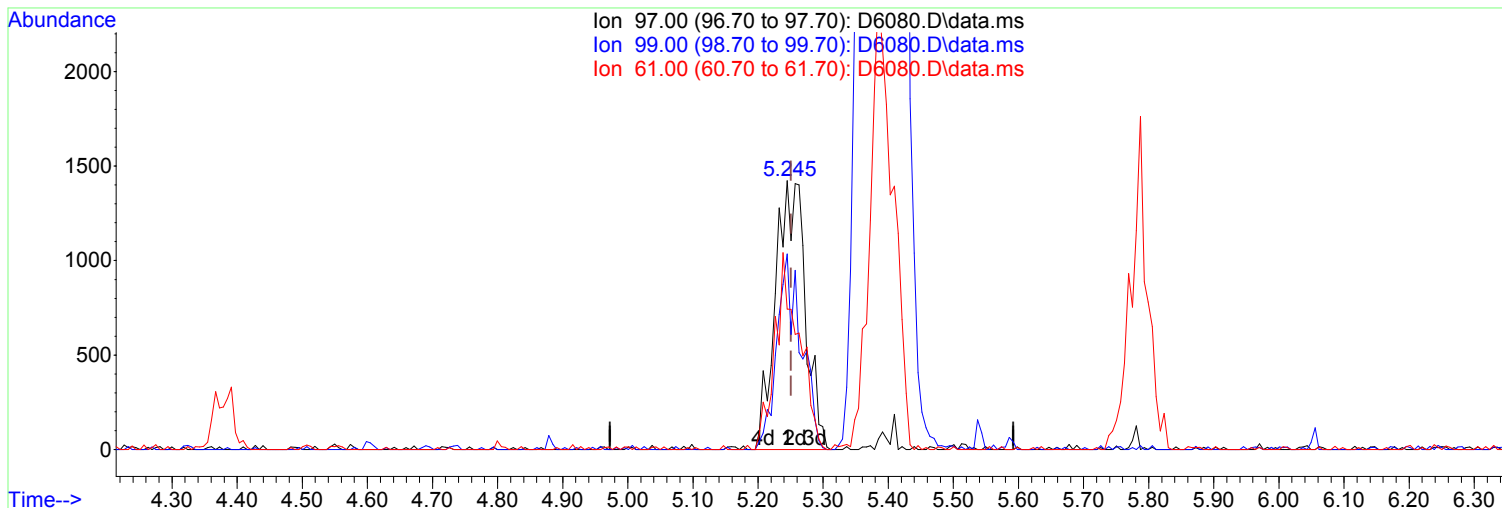
Analysis Method: 8260C
Prep Method: EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|------------------------------|---------------|-----|------|------|----------------|---|
| 1,1,1-Trichloroethane (TCA) | 0.51 J | 1.0 | 0.25 | 1 | 09/24/18 19:08 | |
| 1,1-Dichloroethane (1,1-DCA) | 2.0 | 1.0 | 0.20 | 1 | 09/24/18 19:08 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:08 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.28 | 1 | 09/24/18 19:08 | |
| Trichloroethene (TCE) | 9.7 | 1.0 | 0.20 | 1 | 09/24/18 19:08 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.22 | 1 | 09/24/18 19:08 | |
| cis-1,2-Dichloroethene | 15 | 1.0 | 0.26 | 1 | 09/24/18 19:08 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.26 | 1 | 09/24/18 19:08 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|----------------------|-------|----------------|----------------|---|
| 4-Bromofluorobenzene | 96 | 85 - 122 | 09/24/18 19:08 | |
| Dibromofluoromethane | 102 | 89 - 119 | 09/24/18 19:08 | |
| Toluene-d8 | 102 | 87 - 121 | 09/24/18 19:08 | |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6080.D
 Acq On : 24 Sep 2018 5:38 pm
 Operator : D.LIPANI
 Sample : R1809120-005|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 17:53:08 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



(40) 1,1,1-Trichloroethane (P)

5.245min (-0.006) 1.54 ug/L m
 response 4542

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 65.00 | 72.73 |
| 61.00 | 49.10 | 52.28 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

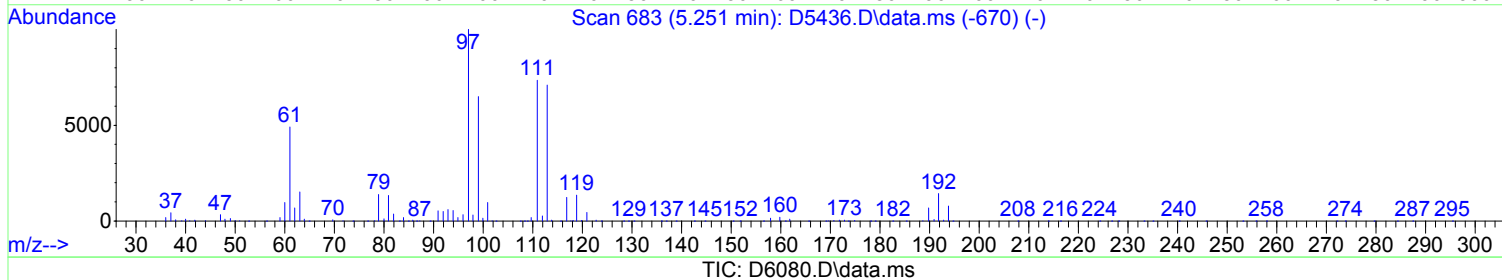
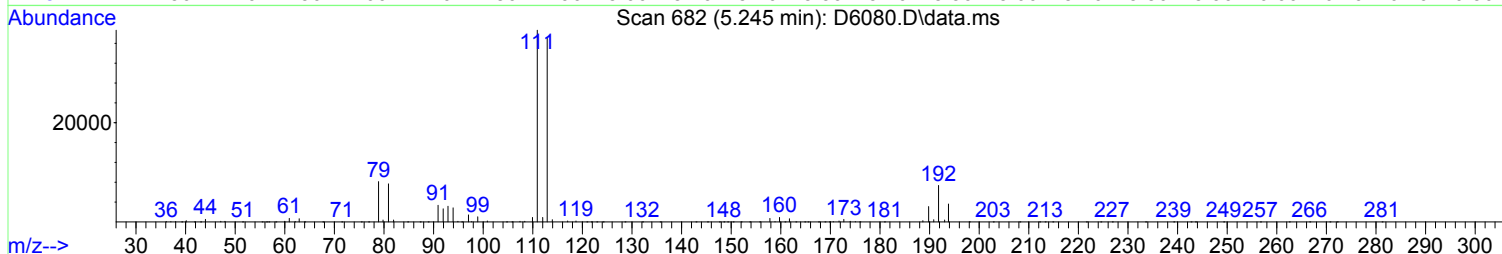
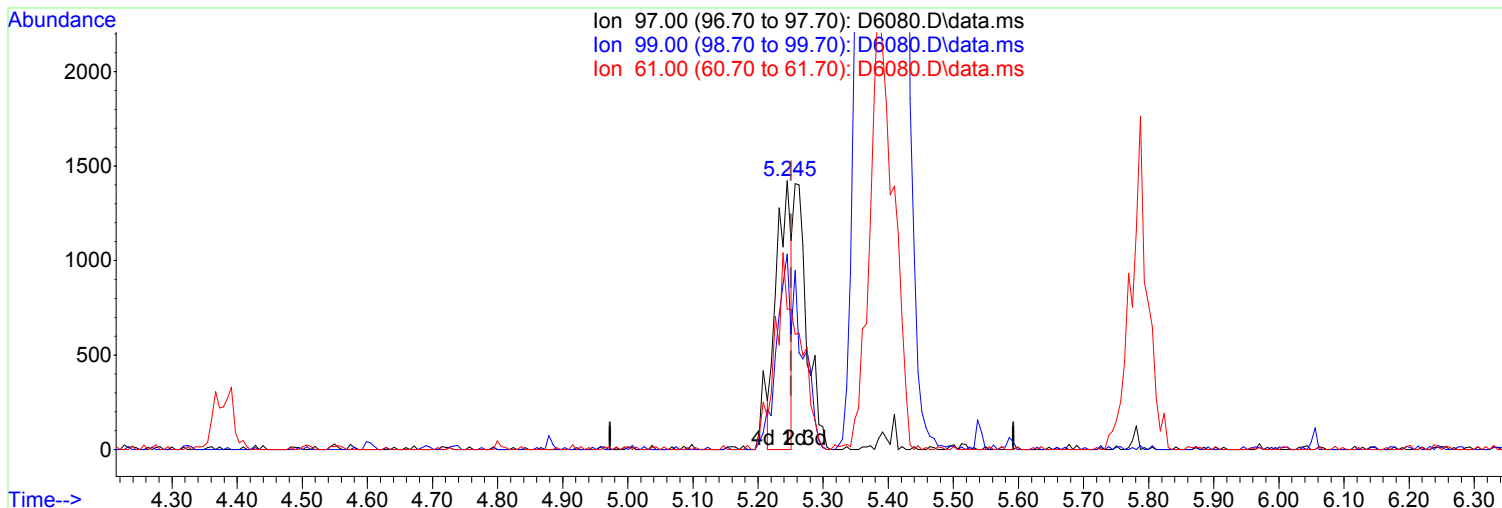
After

Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6080.D
Acq On : 24 Sep 2018 5:38 pm
Operator : D.LIPANI
Sample : R1809120-005|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 17:53:08 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(40) 1,1,1-Trichloroethane (P)

5.245min (-0.006) 0.76 ug/L

response 2250

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 65.00 | 69.65 |
| 61.00 | 49.10 | 50.07 |
| 0.00 | 0.00 | 0.00 |

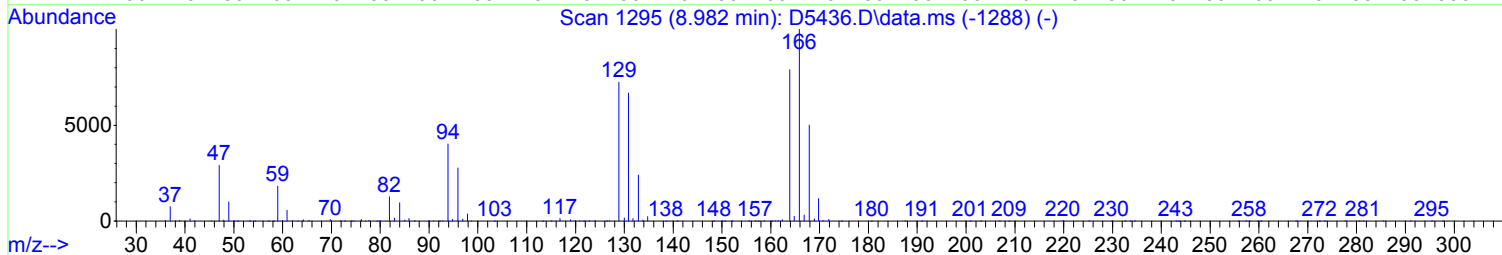
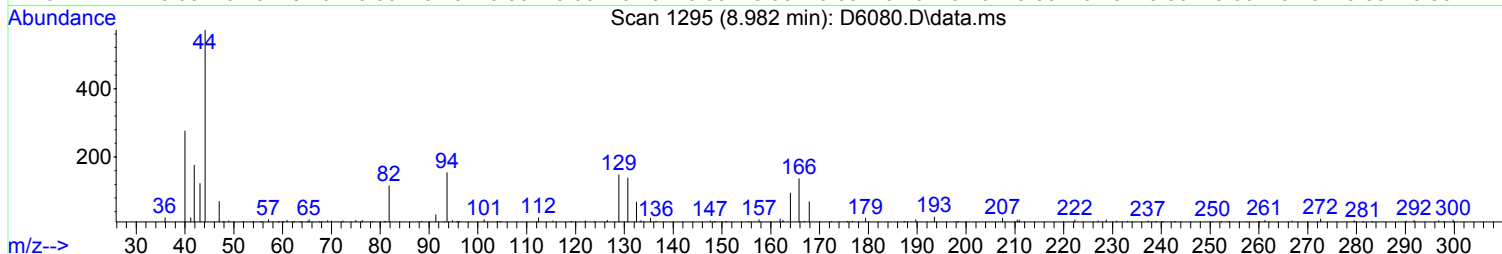
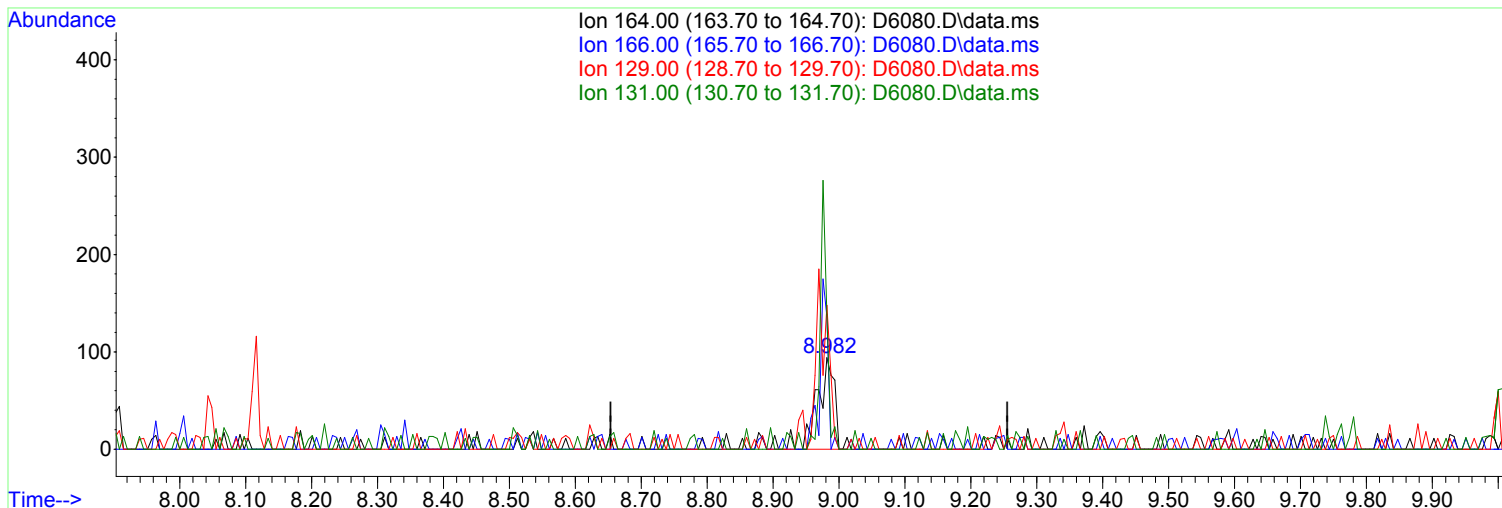
Manual Integration:

Before

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6080.D
Acq On : 24 Sep 2018 5:38 pm
Operator : D.LIPANI
Sample : R1809120-005|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 17:53:08 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

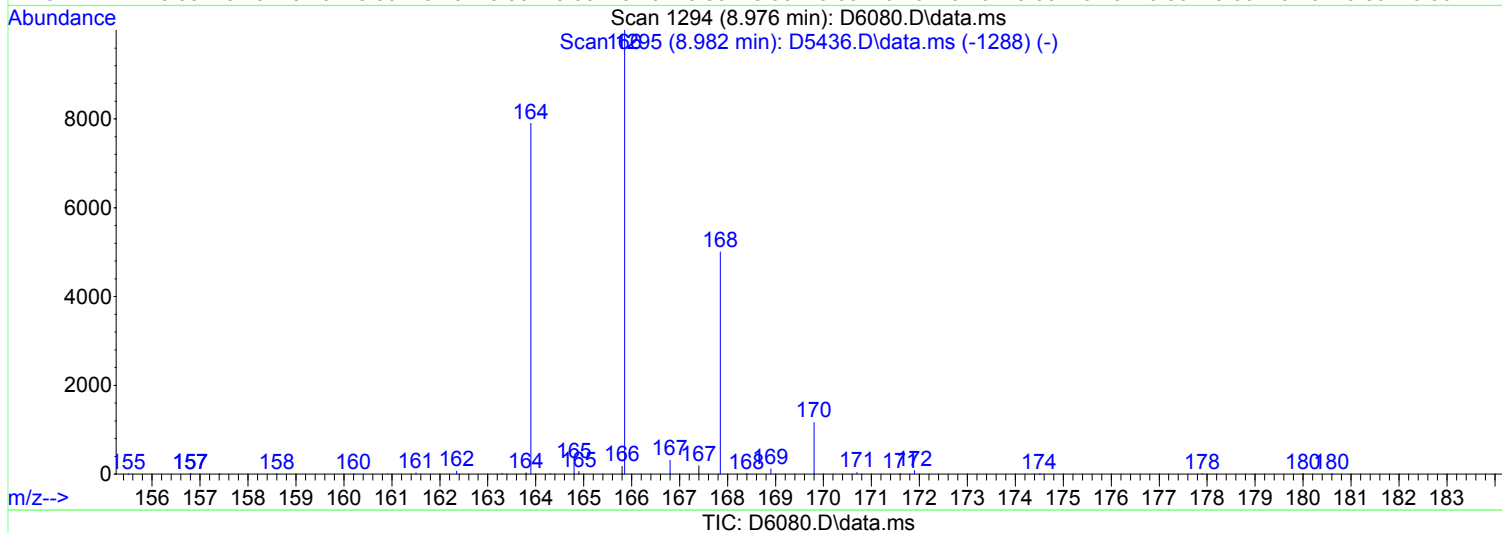
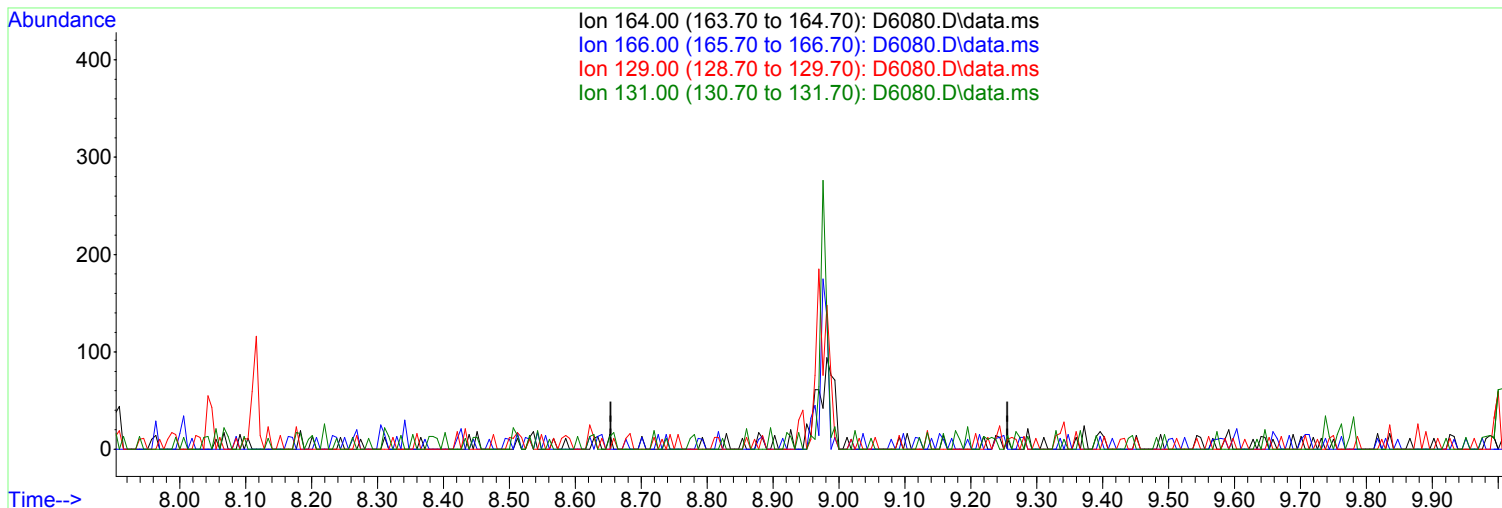


(71) Tetrachloroethene (P)
8.982min (+0.000) 0.10 ug/L m
response 163
Ion Exp% Act%
164.00 100 100
166.00 126.80 144.68
129.00 91.90 157.45#
131.00 84.60 146.81#

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6080.D
Acq On : 24 Sep 2018 5:38 pm
Operator : D.LIPANI
Sample : R1809120-005|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 24 17:53:08 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(71) Tetrachloroethene (P)
8.982min (-8.982) 0.00 ug/L
response 0

Manual Integration:
Before

| Ion | Exp% | Act% |
|--------|--------|-------|
| 164.00 | 100 | 0.00 |
| 166.00 | 126.80 | 0.00# |
| 129.00 | 91.90 | 0.00# |
| 131.00 | 84.60 | 0.00# |

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6080.D
 Acq On : 24 Sep 2018 5:38 pm
 Operator : D.LIPANI
 Sample : R1809120-005|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 27 15:06:00 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 196977 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 314860 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 269323 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 135896 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 103348 | 48.71 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 97.42% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 148663 | 53.28 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 106.56% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 425369 | 49.44 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.88% | |
| 69) SURR2,BFB | 10.878 | 95 | 150251 | 45.45 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 90.90% | |
| Target Compounds | | | | | | |
| 6) Chloroethane | 1.672 | 64 | 44390 | 24.91 | ug/L | 94 |
| 10) Freon 123a | 2.099 | 67 | 3956 | 1.58 | ug/L | 97 |
| 15) Acetone | 2.355 | 43 | 54216 | 46.79 | ug/L | 88 |
| 18) Carbon Disulfide | 2.477 | 76 | 5530 | 1.12 | ug/L | 98 |
| 21) Methyl Acetate | 2.648 | 43 | 1231 | 0.53 | ug/L | 84 |
| 27) 1,1-Dicethane | 3.531 | 63 | 27202 | 7.15 | ug/L | 96 |
| 34) 2-Butanone | 4.440 | 43 | 12387 | 7.91 | ug/L | 88 |
| 40) 1,1,1-Trichloroethane | 5.245 | 97 | 4542m | 1.54 | ug/L | |
| 47) Benzene | 5.860 | 78 | 2567 | 0.31 | ug/L # | 56 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 1443 | 0.47 | ug/L | 80 |
| 72) 2-Hexanone | 9.140 | 43 | 3950 | 1.74 | ug/L | 95 |

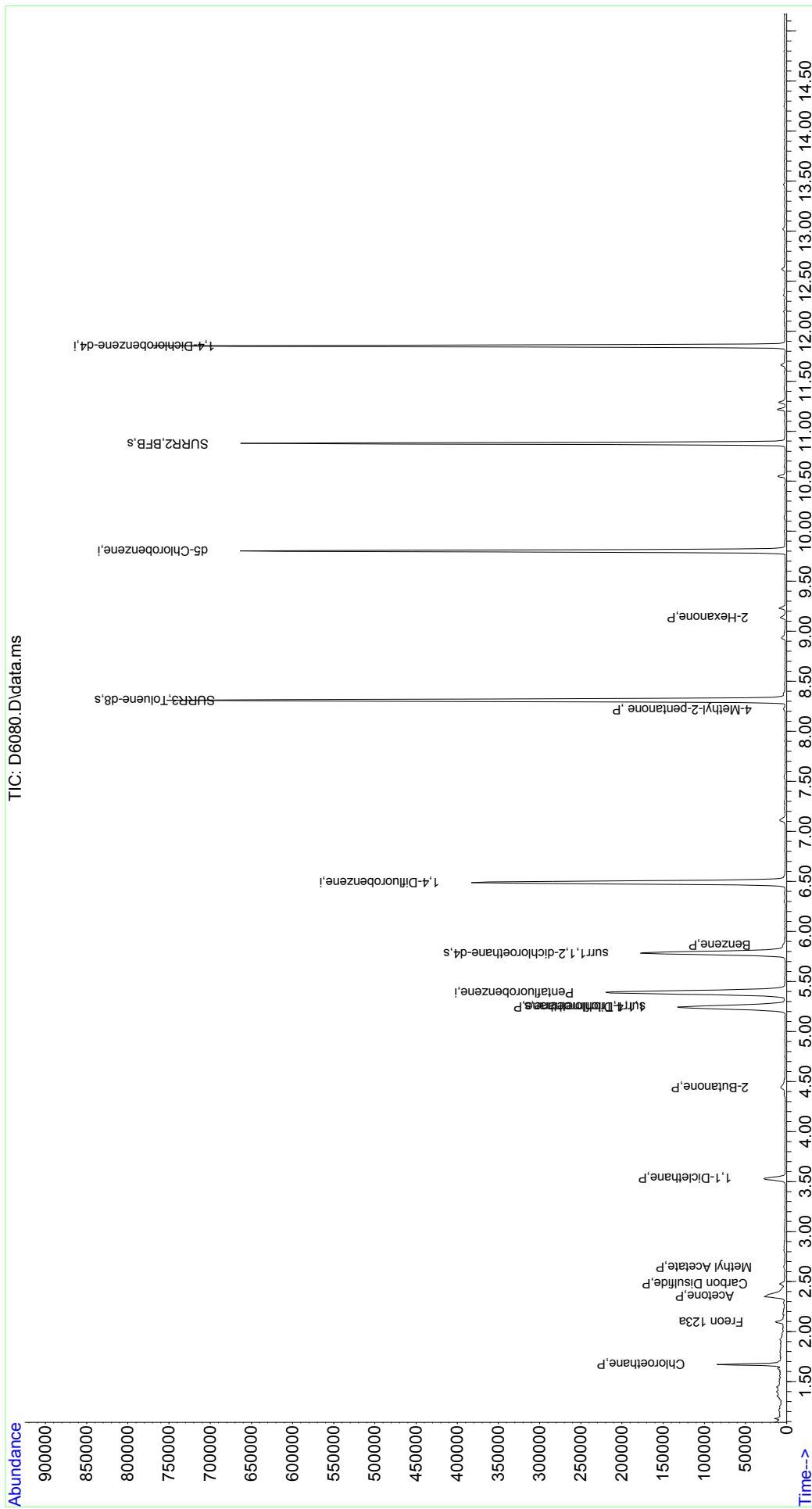
(#) = qualifier out of range (m) = manual integration (+) = signals summed

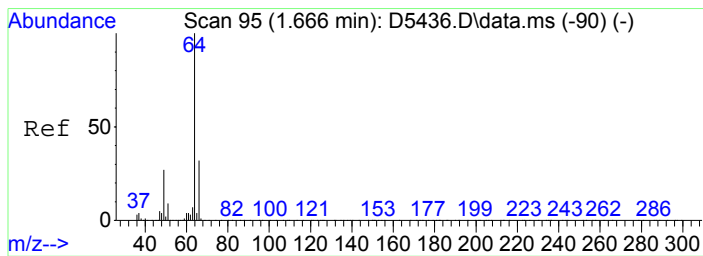
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6080.D
 Acq On : 24 Sep 2018 5:38 pm
 Operator : D.LIPANI
 Sample : R1809120-005|1.0
 Misc : Verina 7979 T4
 ALS Vial : 24 Sample Multiplier: 1

Inst : MSVOA10

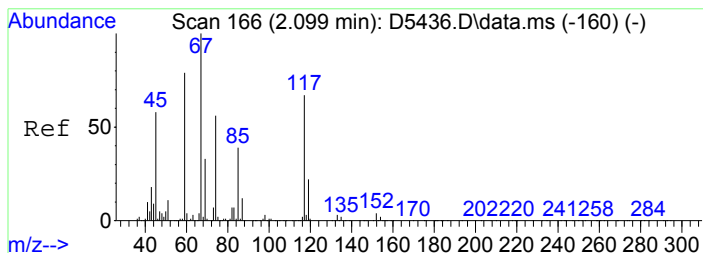
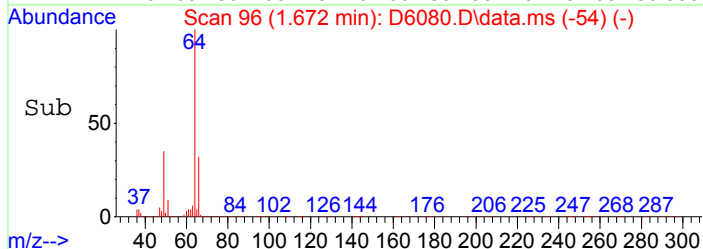
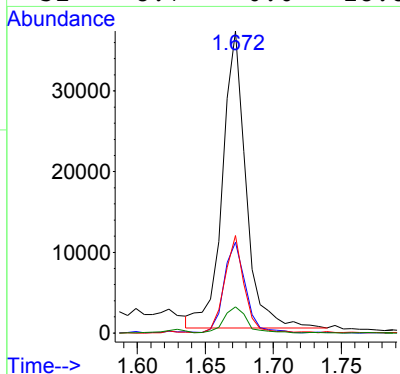
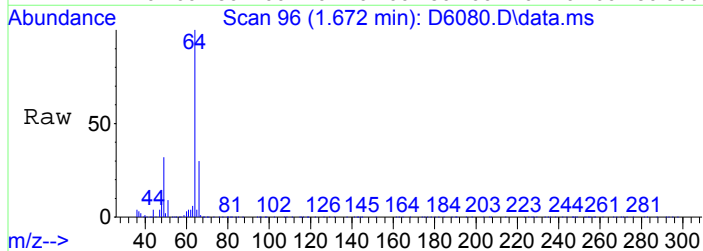
Quant Time: Sep 27 15:06:00 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration





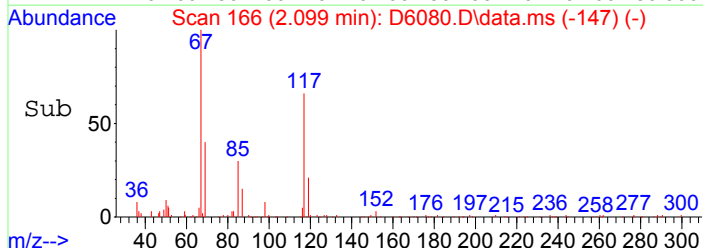
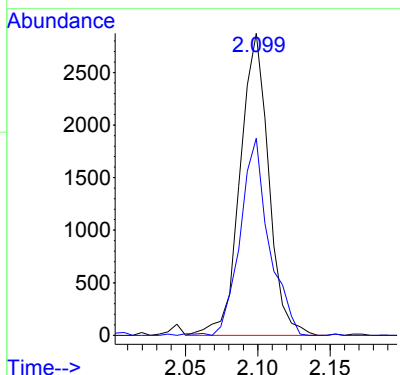
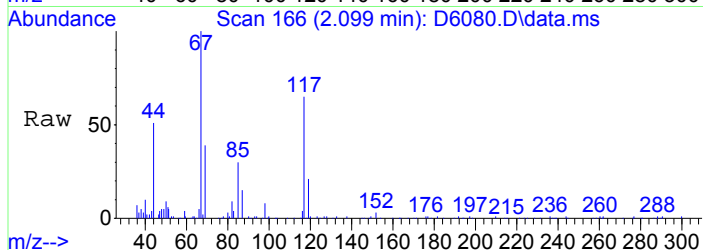
#6
 Chloroethane
 Concen: 24.91 ug/L
 RT: 1.672 min Scan# 96
 Delta R.T. 0.012 min
 Lab File: D6080.D
 Acq: 24 Sep 2018 5:38 pm

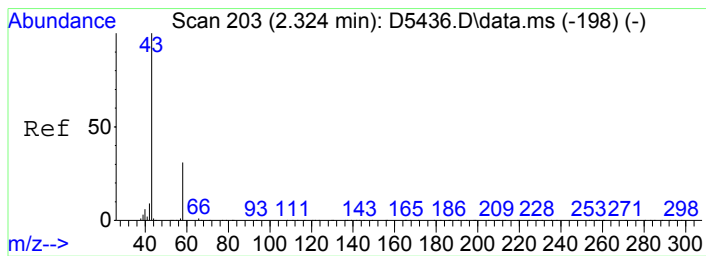
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 64 | 100 | | |
| 66 | 30.1 | 12.1 | 52.1 |
| 49 | 32.3 | 6.6 | 46.6 |
| 51 | 8.7 | 0.0 | 28.8 |



#10
 Freon 123a
 Concen: 1.58 ug/L
 RT: 2.099 min Scan# 166
 Delta R.T. 0.000 min
 Lab File: D6080.D
 Acq: 24 Sep 2018 5:38 pm

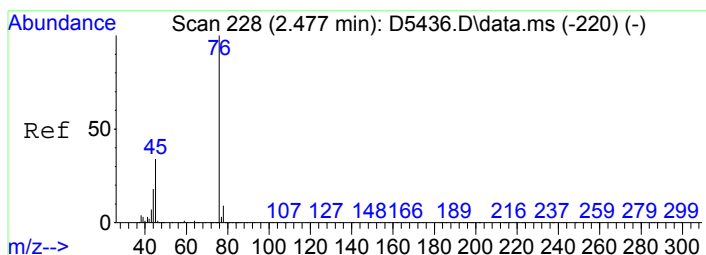
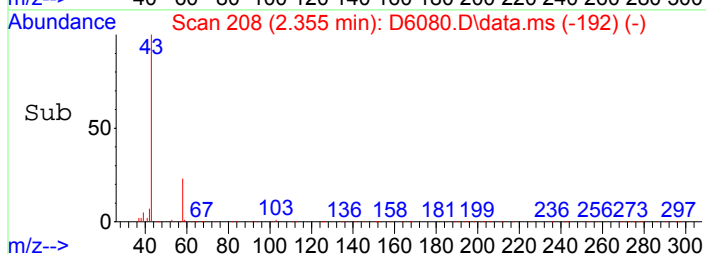
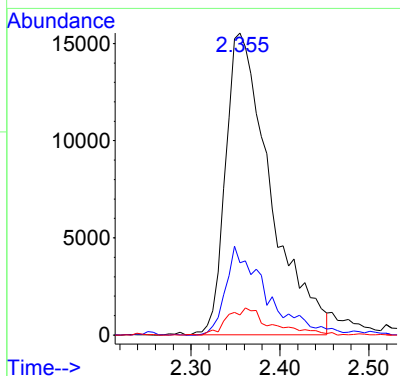
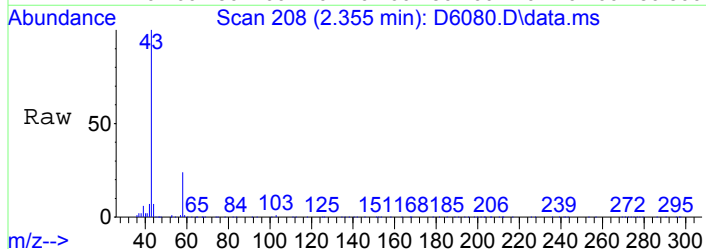
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 67 | 100 | | |
| 117 | 65.3 | 47.5 | 87.5 |





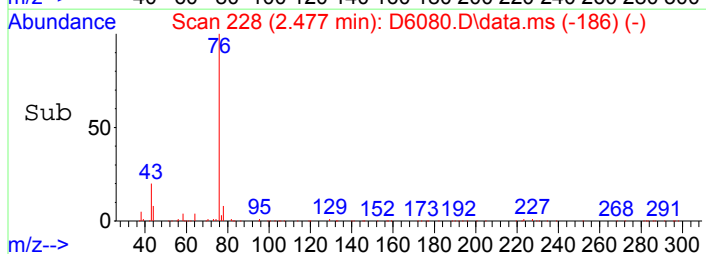
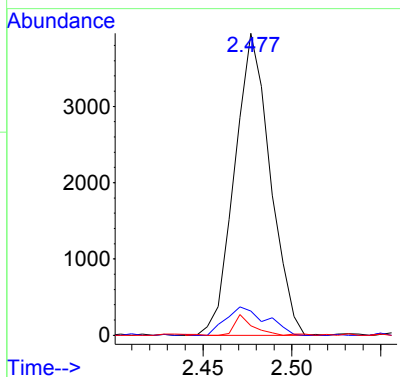
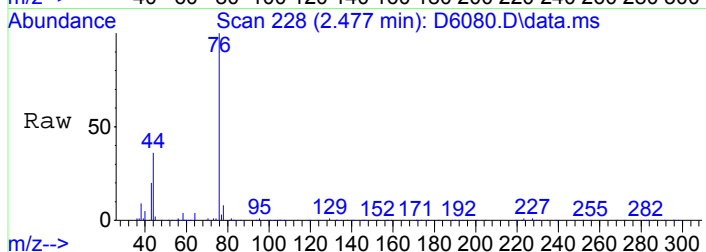
#15
Acetone
Concen: 46.79 ug/L
RT: 2.355 min Scan# 208
Delta R.T. 0.024 min
Lab File: D6080.D
Acq: 24 Sep 2018 5:38 pm

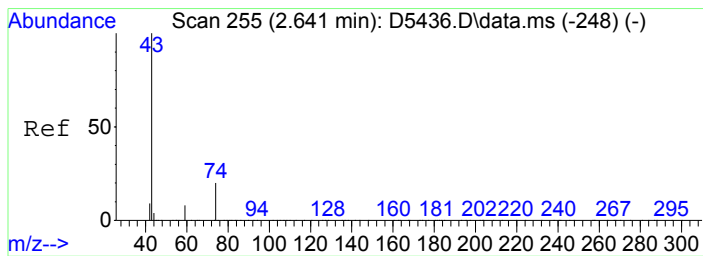
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 54216 | | |
| 58 | 23.9 | 11.2 | 51.2 |
| 42 | 6.6 | 0.0 | 28.6 |



#18
Carbon Disulfide
Concen: 1.12 ug/L
RT: 2.477 min Scan# 228
Delta R.T. 0.000 min
Lab File: D6080.D
Acq: 24 Sep 2018 5:38 pm

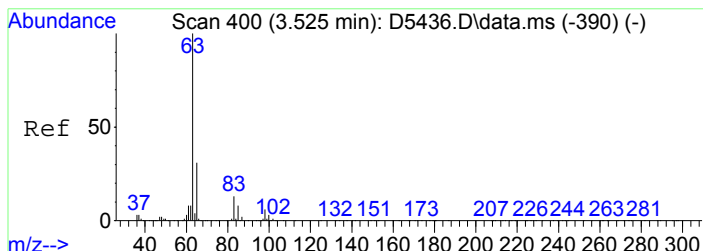
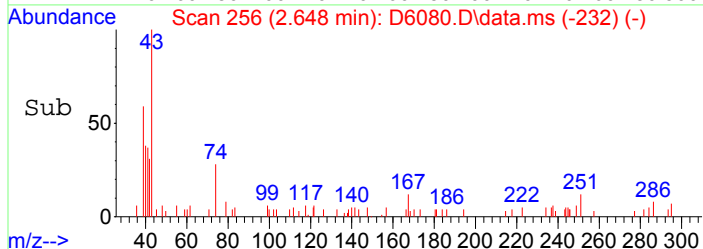
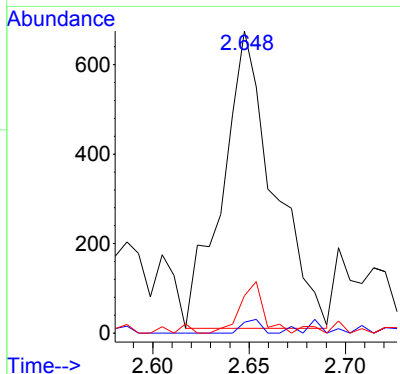
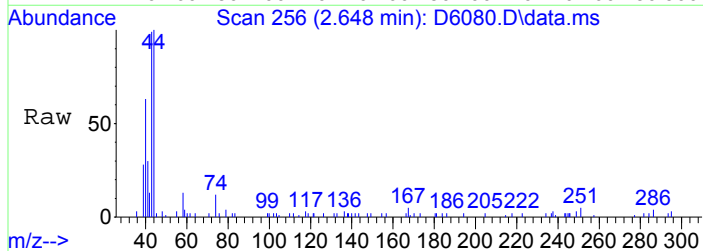
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 76 | 5530 | | |
| 78 | 8.0 | 0.0 | 28.8 |
| 77 | 3.2 | 0.0 | 22.9 |





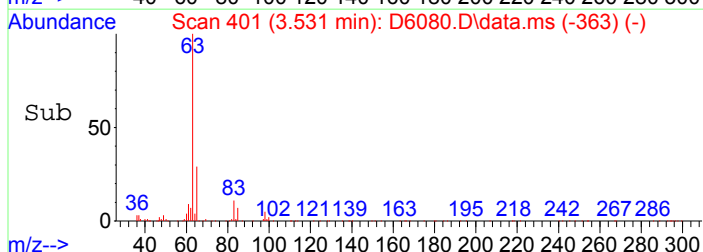
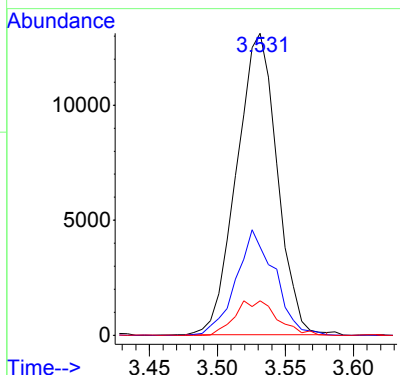
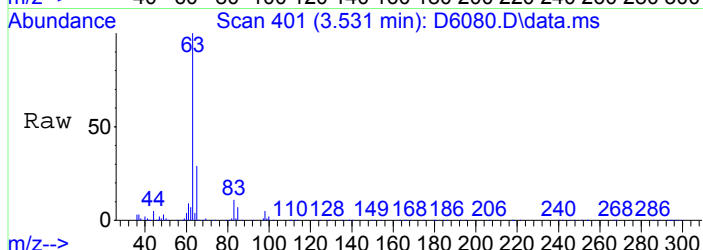
#21
 Methyl Acetate
 Concen: 0.53 ug/L
 RT: 2.648 min Scan# 256
 Delta R.T. 0.006 min
 Lab File: D6080.D
 Acq: 24 Sep 2018 5:38 pm

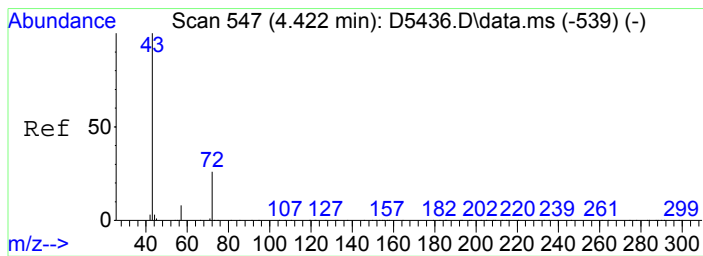
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1231 | | |
| 59 | 3.6 | 0.0 | 28.1 |
| 74 | 12.4 | 0.2 | 40.2 |



#27
 1,1-Dicylethane
 Concen: 7.15 ug/L
 RT: 3.531 min Scan# 401
 Delta R.T. 0.006 min
 Lab File: D6080.D
 Acq: 24 Sep 2018 5:38 pm

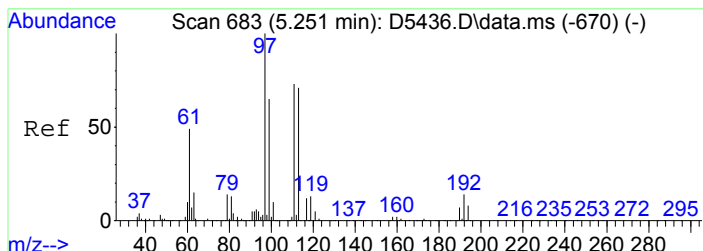
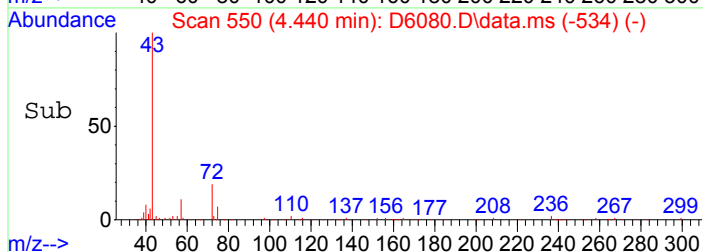
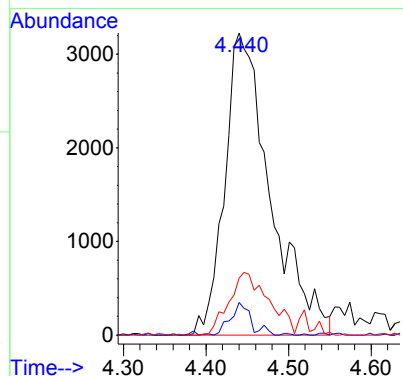
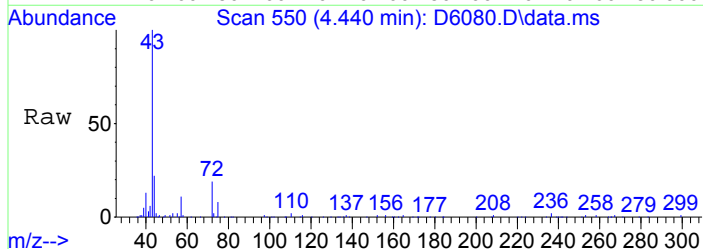
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 63 | 27202 | | |
| 65 | 29.2 | 11.4 | 51.4 |
| 83 | 11.4 | 0.0 | 32.6 |





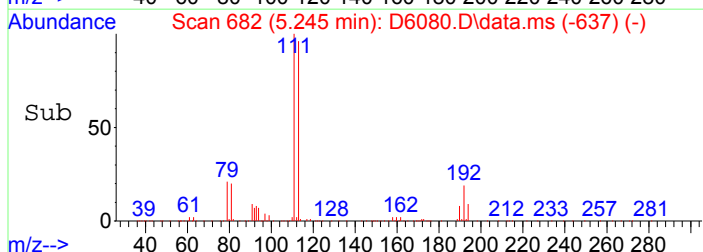
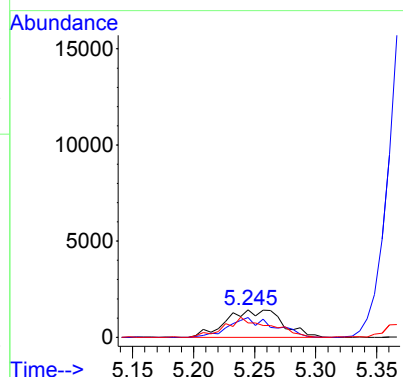
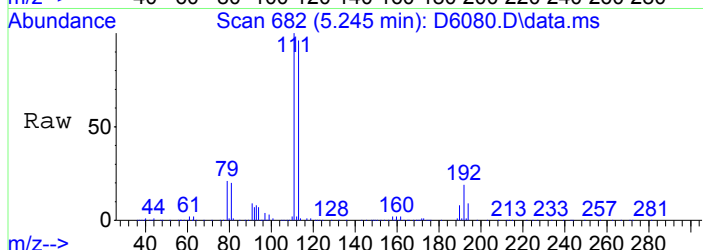
#34
2-Butanone
Concen: 7.91 ug/L
RT: 4.440 min Scan# 550
Delta R.T. 0.024 min
Lab File: D6080.D
Acq: 24 Sep 2018 5:38 pm

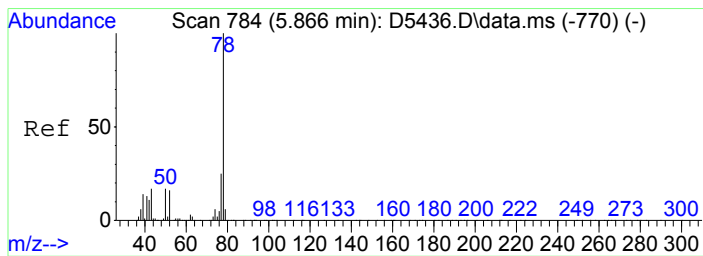
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 12387 | | |
| 57 | 10.8 | 0.0 | 27.8 |
| 72 | 18.8 | 5.1 | 45.1 |



#40
1,1,1-Trichloroethane
Concen: 1.54 ug/L m
RT: 5.245 min Scan# 682
Delta R.T. -0.006 min
Lab File: D6080.D
Acq: 24 Sep 2018 5:38 pm

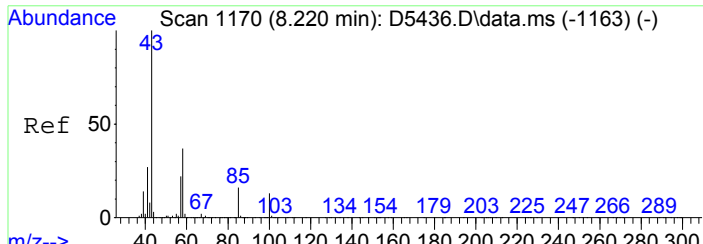
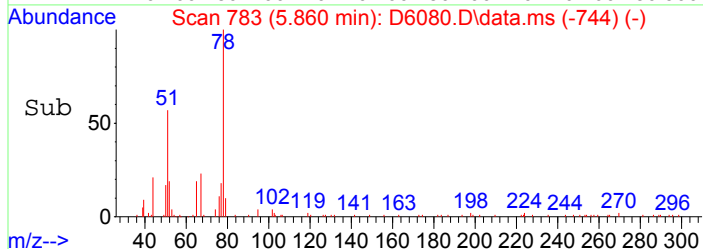
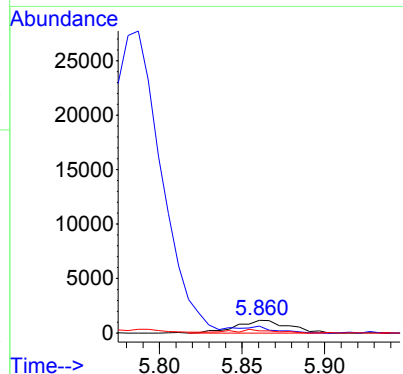
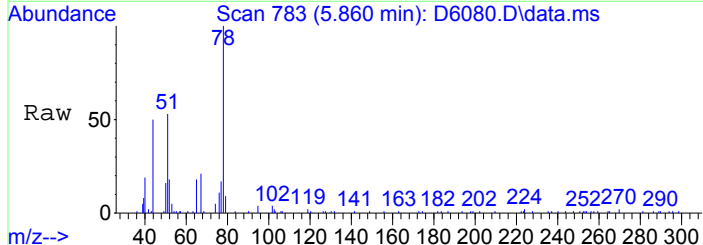
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 4542 | | |
| 99 | 72.7 | 45.0 | 85.0 |
| 61 | 52.3 | 29.1 | 69.1 |





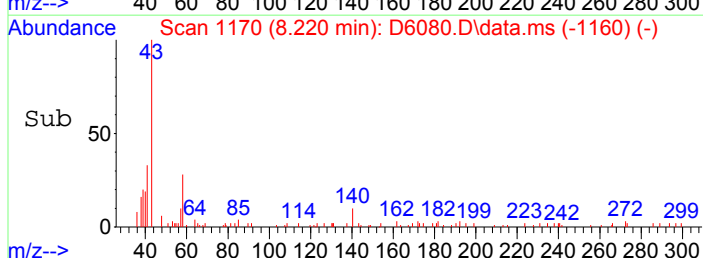
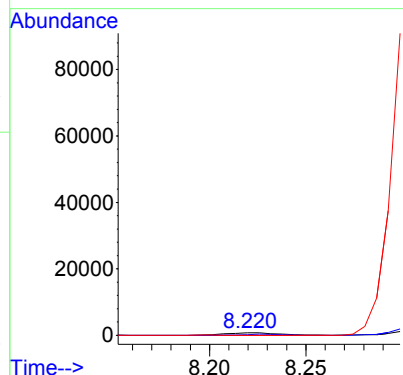
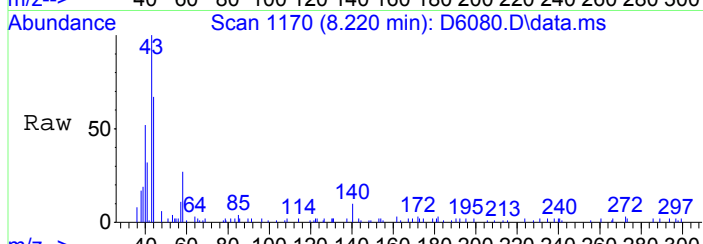
#47
Benzene
Concen: 0.31 ug/L
RT: 5.860 min Scan# 783
Delta R.T. -0.006 min
Lab File: D6080.D
Acq: 24 Sep 2018 5:38 pm

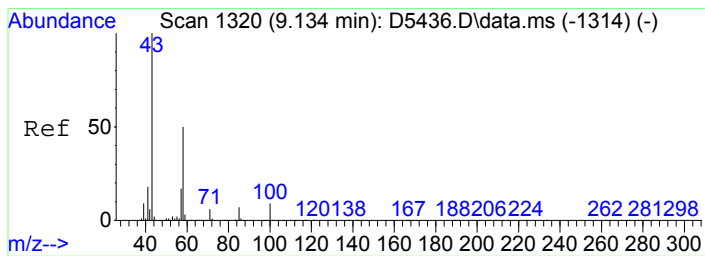
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 78 | 2567 | | |
| 51 | 53.4 | 0.0 | 37.5# |
| 52 | 17.8 | 0.0 | 36.3 |



#63
4-Methyl-2-pentanone
Concen: 0.47 ug/L
RT: 8.220 min Scan# 1170
Delta R.T. 0.000 min
Lab File: D6080.D
Acq: 24 Sep 2018 5:38 pm

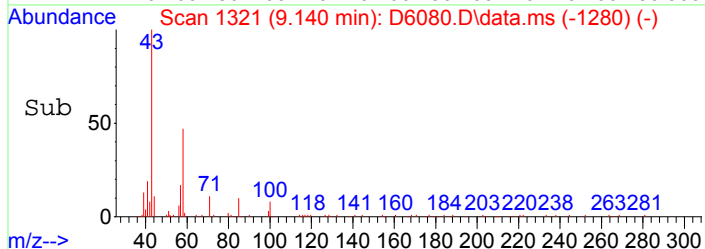
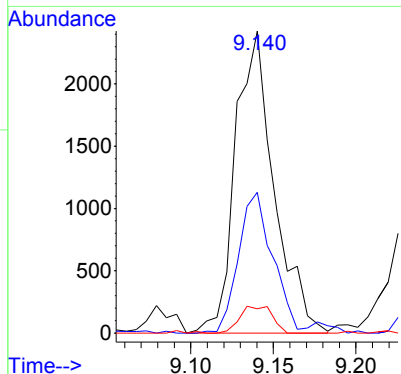
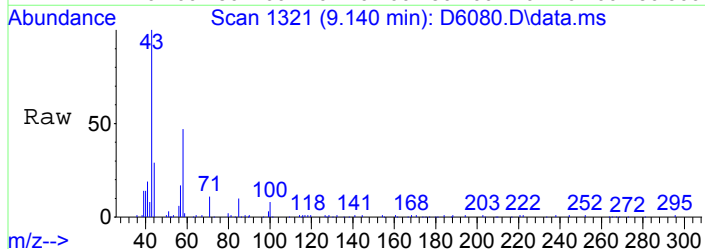
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1443 | | |
| 58 | 27.4 | 16.6 | 56.6 |
| 100 | 0.0 | 0.0 | 32.7 |





#72
 2-Hexanone
 Concen: 1.74 ug/L
 RT: 9.140 min Scan# 1321
 Delta R.T. 0.006 min
 Lab File: D6080.D
 Acq: 24 Sep 2018 5:38 pm

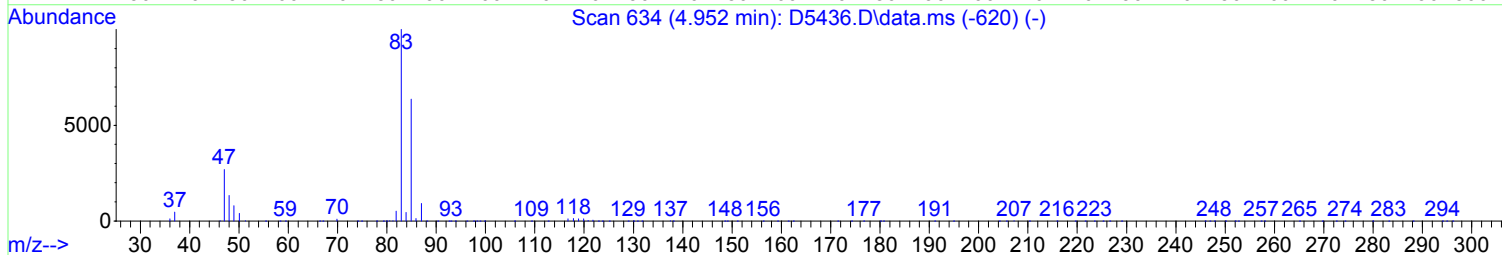
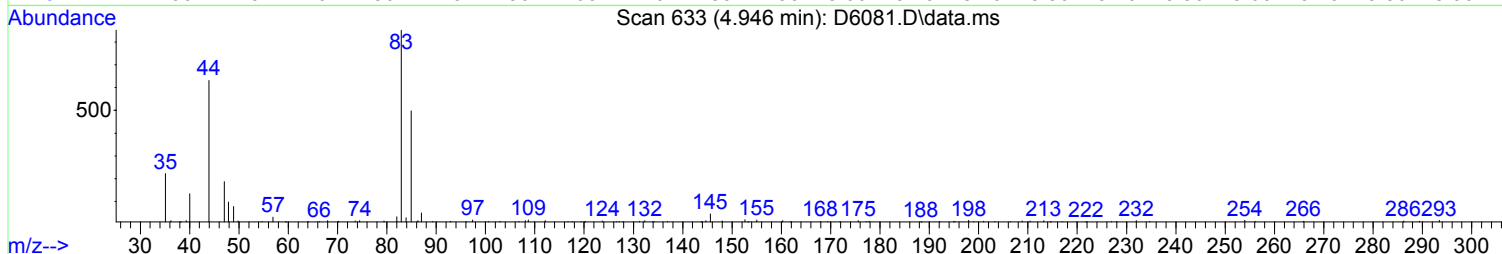
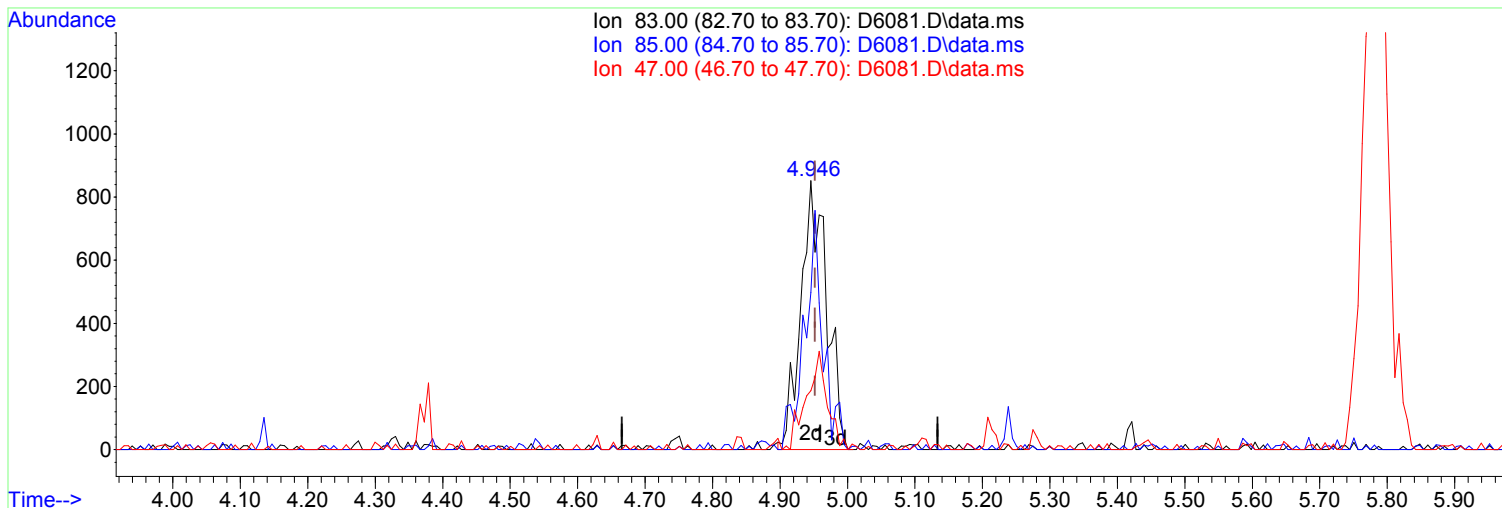
| Tgt Ion | 43 | Resp | 3950 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper | |
| 43 | 100 | | |
| 58 | 46.6 | 30.1 | 70.1 |
| 100 | 8.0 | 0.0 | 28.6 |



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6081.D
Acq On : 24 Sep 2018 6:00 pm
Operator : D.LIPANI
Sample : R1809120-006|1.0
Misc : Verina 7979 T4
ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 18:14:48 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(39) Chloroform (P)

4.946min (-0.006) 0.63 ug/L m

response 2269

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 58.45 |
| 47.00 | 26.90 | 21.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

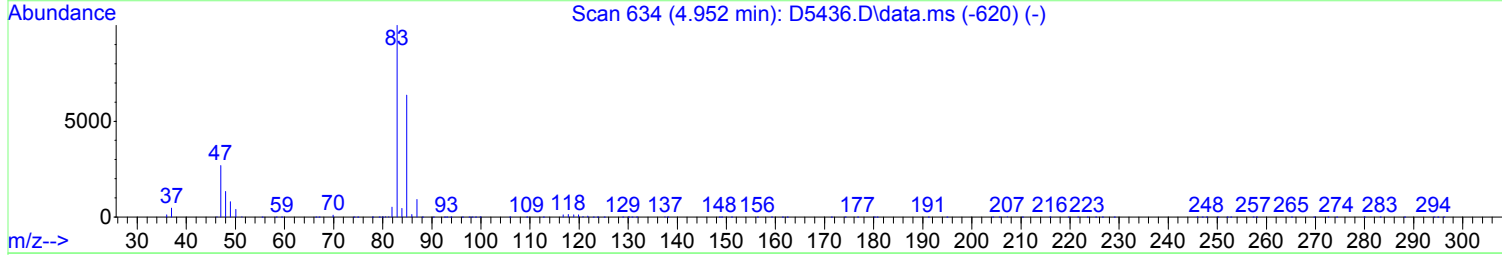
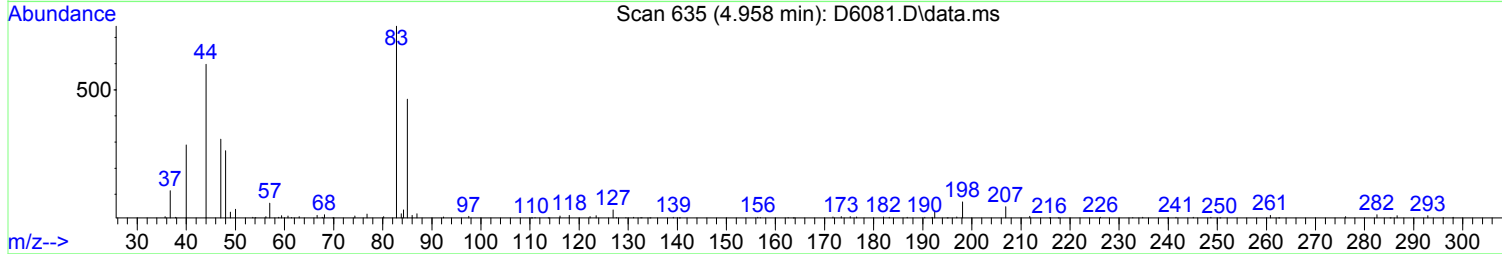
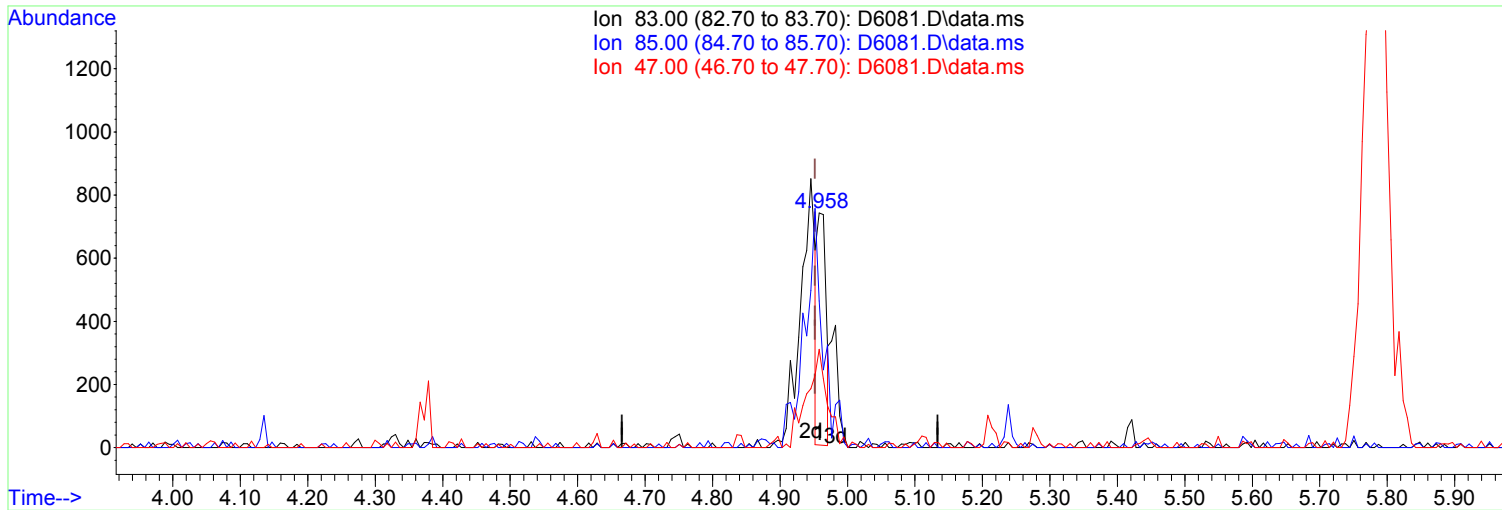
Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6081.D
Acq On : 24 Sep 2018 6:00 pm
Operator : D.LIPANI
Sample : R1809120-006|1.0
Misc : Verina 7979 T4
ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 18:14:48 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(39) Chloroform (P)

4.958min (+0.006) 0.18 ug/L

response 651

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 62.45 |
| 47.00 | 26.90 | 41.86 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6081.D
 Acq On : 24 Sep 2018 6:00 pm
 Operator : D.LIPANI
 Sample : R1809120-006|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 25 Sample Multiplier: 1

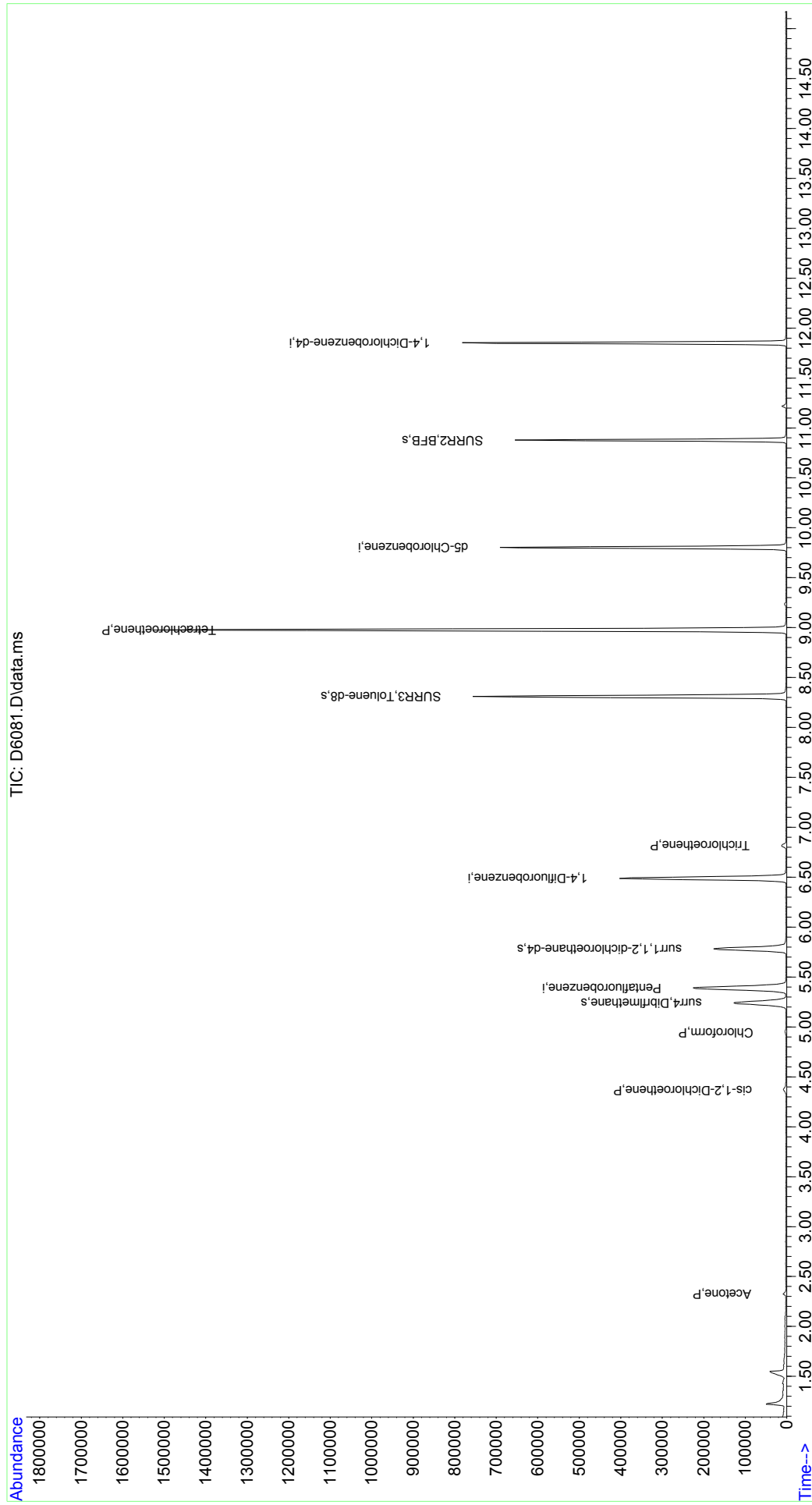
Quant Time: Sep 27 15:07:54 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

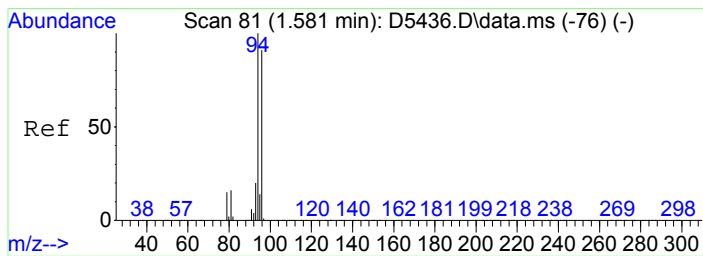
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 204753 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 325767 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 276091 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 141137 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 102017 | 46.47 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 92.94% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 148682 | 51.50 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 103.00% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 421843 | 47.39 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 94.78% | |
| 69) SURR2,BFB | 10.878 | 95 | 147610 | 43.15 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 86.30% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.593 | 94 | 274 | Below Cal | # | 44 |
| 15) Acetone | 2.324 | 43 | 6063 | 5.03 | ug/L | 98 |
| 33) cis-1,2-Dichloroethene | 4.361 | 96 | 3341 | 1.49 | ug/L # | 48 |
| 39) Chloroform | 4.946 | 83 | 2269m | 0.63 | ug/L | |
| 53) Trichloroethene | 6.817 | 130 | 3561 | 1.57 | ug/L # | 81 |
| 71) Tetrachloroethene | 8.976 | 164 | 279143 | 162.57 | ug/L | 97 |

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

Data Path : I:\ACQDATA\msvoa10\data\092418\
 Data File : D6081.D
 Acq On : 24 Sep 2018 6:00 pm
 Operator : D.LIPANI
 Sample : R1809120-006|1.0
 Misc : Verina 7979 T4
 ALS Vial : 25 Sample Multiplier: 1
 Inst : MSVOA10

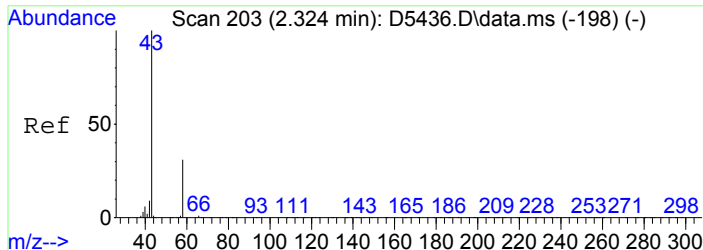
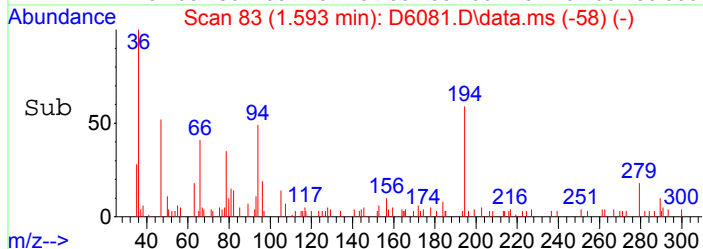
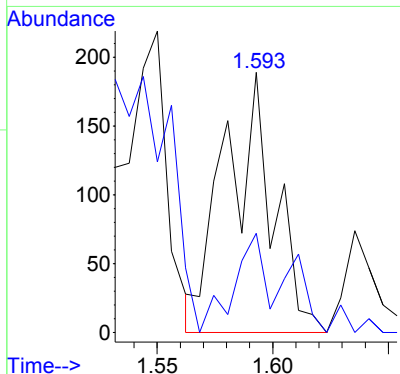
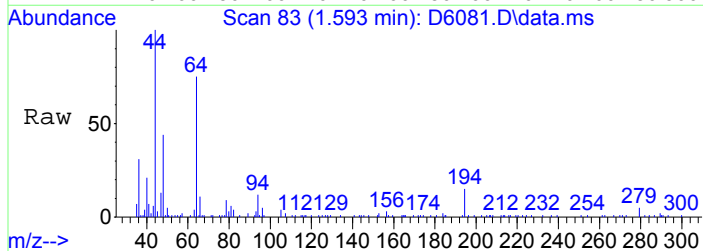
Quant Time: Sep 27 15:07:54 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration





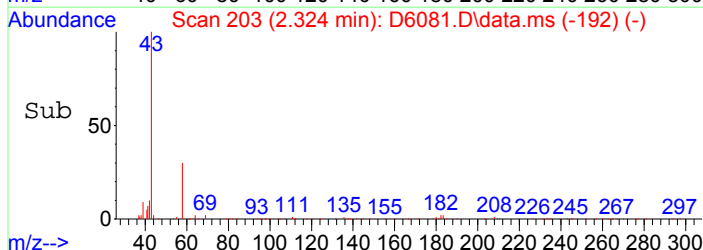
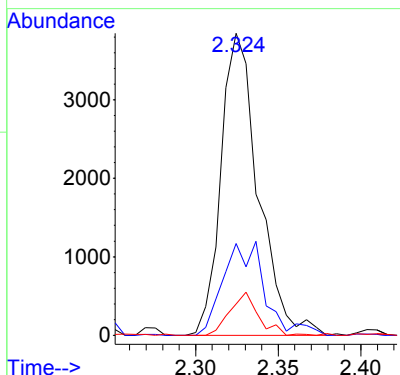
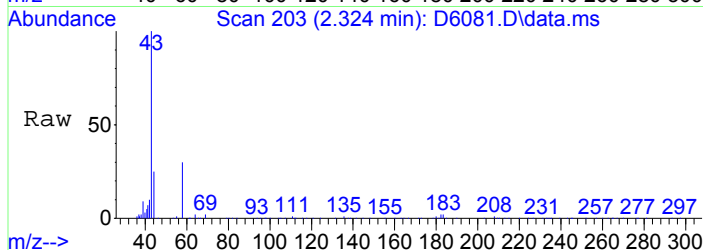
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.593 min Scan# 83
 Delta R.T. 0.012 min
 Lab File: D6081.D
 Acq: 24 Sep 2018 6:00 pm

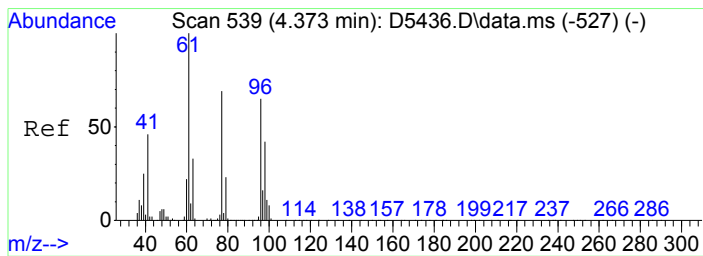
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 94 | 100 | | |
| 96 | 38.1 | 71.1 | 111.1# |



#15
 Acetone
 Concen: 5.03 ug/L
 RT: 2.324 min Scan# 203
 Delta R.T. -0.006 min
 Lab File: D6081.D
 Acq: 24 Sep 2018 6:00 pm

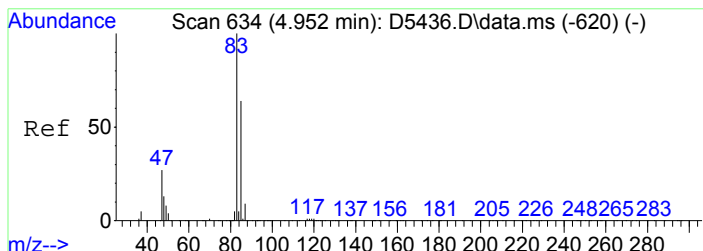
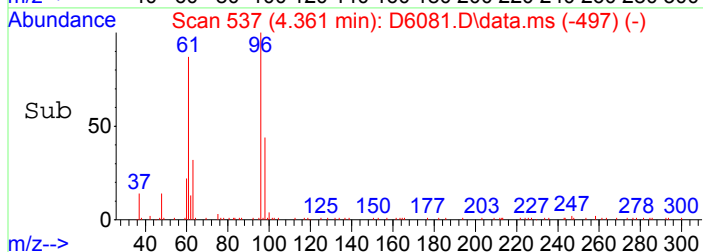
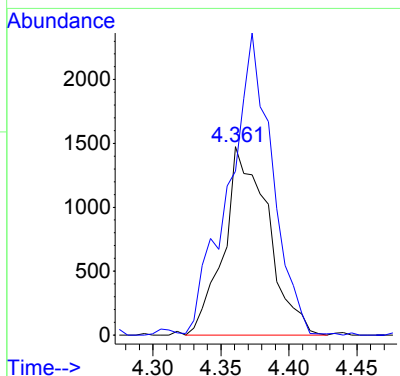
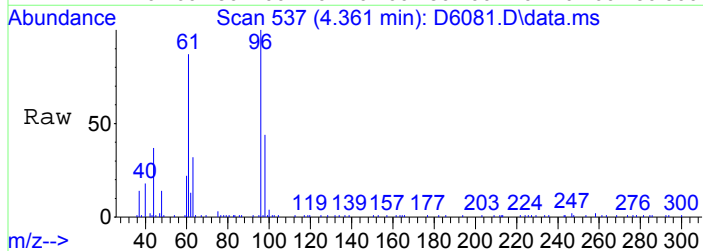
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 30.4 | 11.2 | 51.2 |
| 42 | 10.4 | 0.0 | 28.6 |





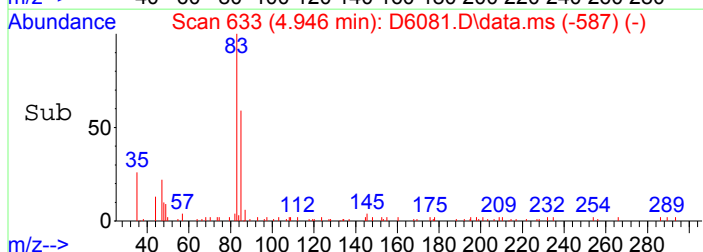
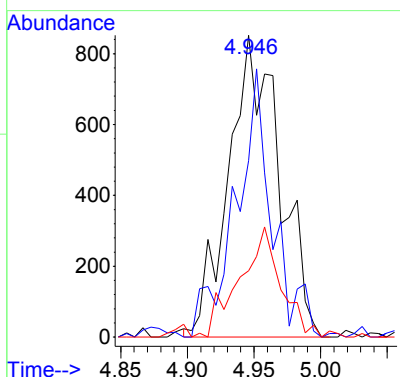
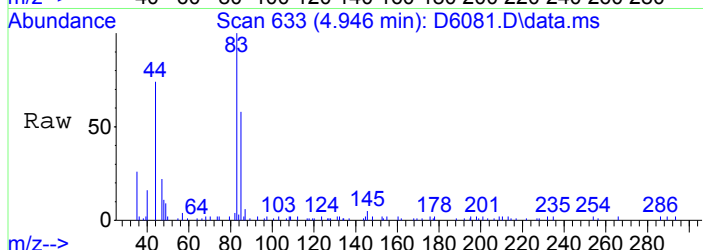
#33
 cis-1,2-Dichloroethene
 Concen: 1.49 ug/L
 RT: 4.361 min Scan# 537
 Delta R.T. -0.012 min
 Lab File: D6081.D
 Acq: 24 Sep 2018 6:00 pm

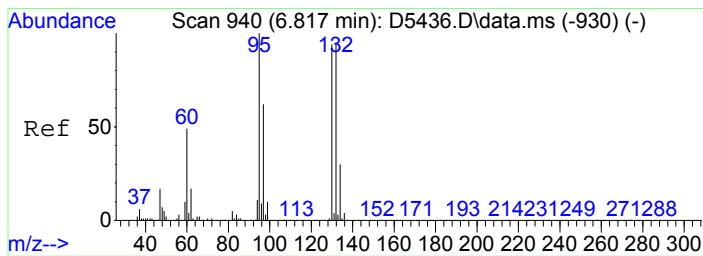
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 96 | 3341 | | |
| 96 | 100 | | |
| 61 | 86.9 | 134.7 | 174.7# |



#39
 Chloroform
 Concen: 0.63 ug/L m
 RT: 4.946 min Scan# 633
 Delta R.T. -0.006 min
 Lab File: D6081.D
 Acq: 24 Sep 2018 6:00 pm

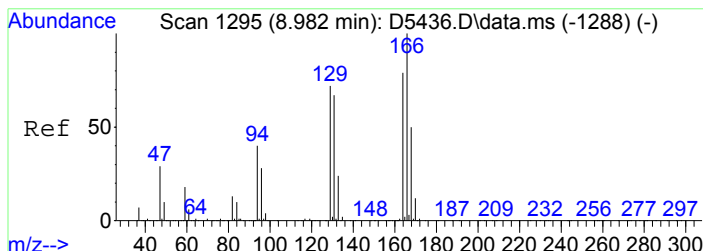
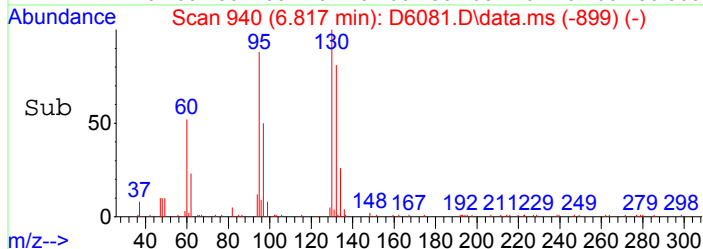
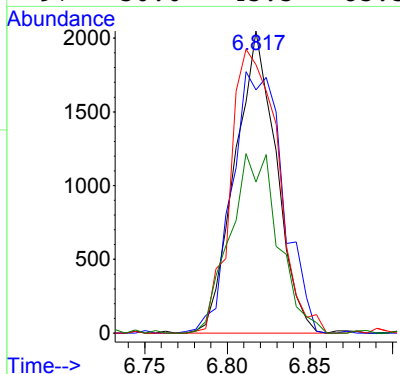
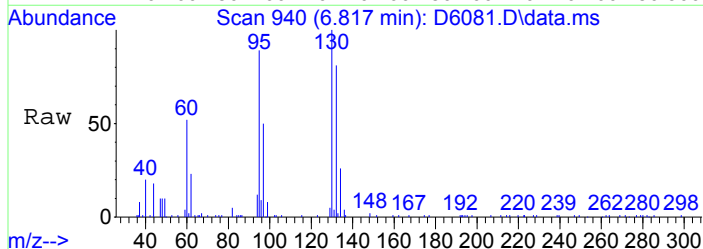
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 83 | 2269 | | |
| 83 | 100 | | |
| 85 | 58.5 | 43.7 | 83.7 |
| 47 | 21.9 | 6.9 | 46.9 |





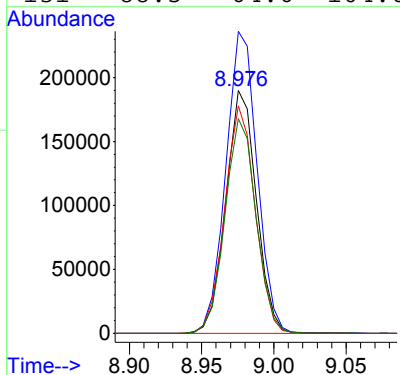
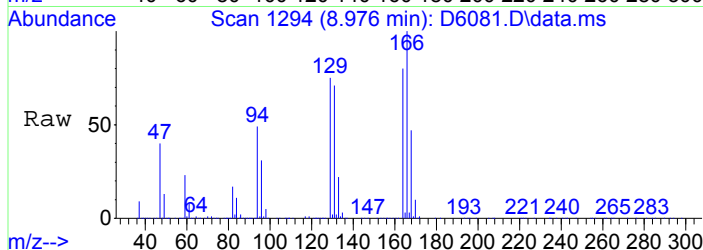
#53
 Trichloroethene
 Concen: 1.57 ug/L
 RT: 6.817 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: D6081.D
 Acq: 24 Sep 2018 6:00 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 130 | 3561 | | |
| 130 | 100 | | |
| 132 | 80.5 | 80.7 | 120.7# |
| 95 | 88.9 | 86.1 | 126.1 |
| 97 | 50.0 | 45.5 | 85.5 |



#71
 Tetrachloroethene
 Concen: 162.57 ug/L
 RT: 8.976 min Scan# 1294
 Delta R.T. -0.006 min
 Lab File: D6081.D
 Acq: 24 Sep 2018 6:00 pm

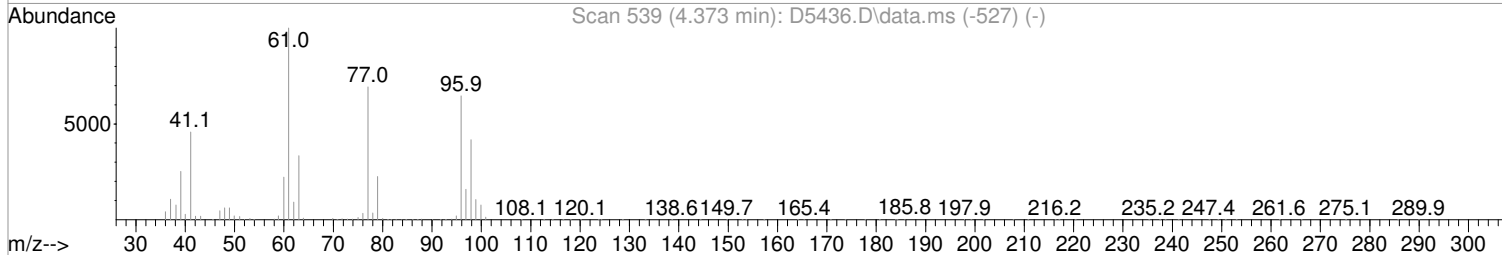
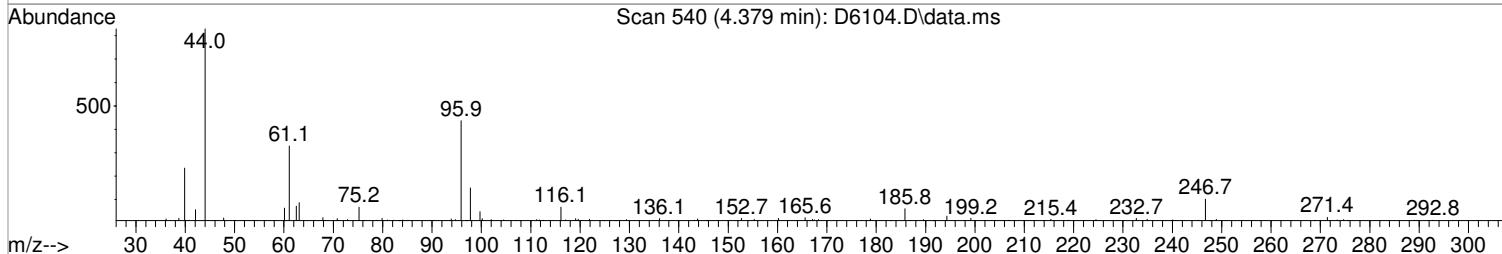
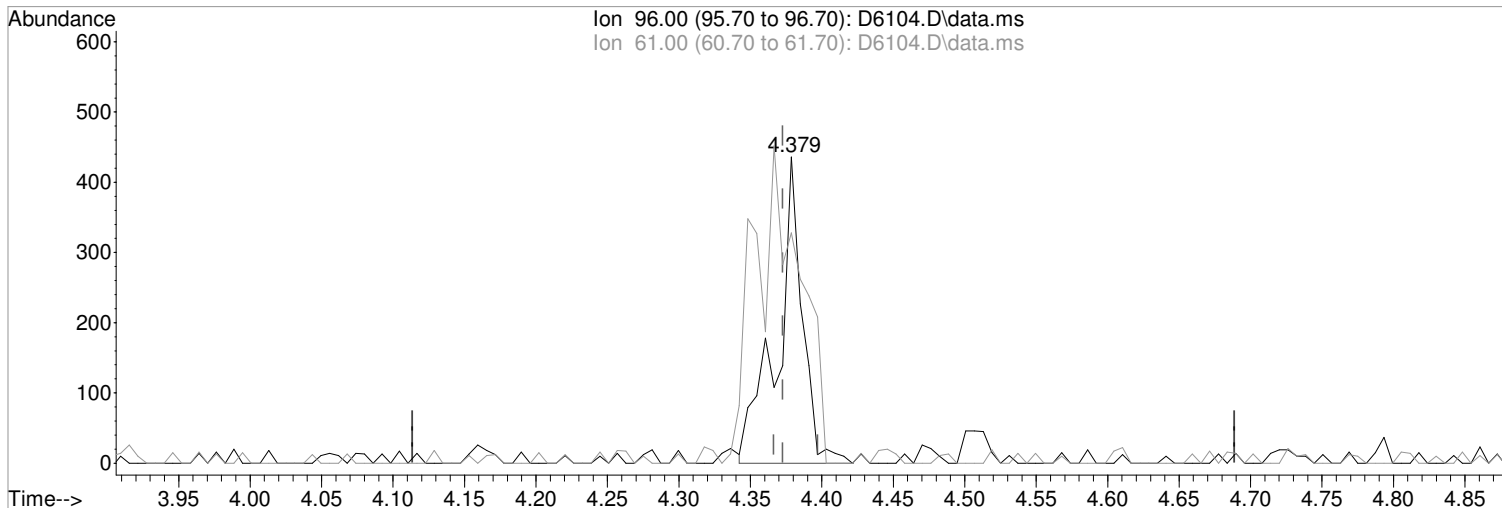
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 164 | 279143 | | |
| 164 | 100 | | |
| 166 | 124.4 | 106.8 | 146.8 |
| 129 | 93.8 | 71.9 | 111.9 |
| 131 | 88.5 | 64.6 | 104.6 |



Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6104.D
Acq On : 25 Sep 2018 12:53 pm
Operator : D.LIPANI
Sample : R1809120-008|1.0
Misc : Verina 7979 T4
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 13:08:12 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6104.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.379min (+0.006) 0.23 ug/L m

response 533

Ion Exp% Act%

96.00 100 100

61.00 154.70 75.23#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

After

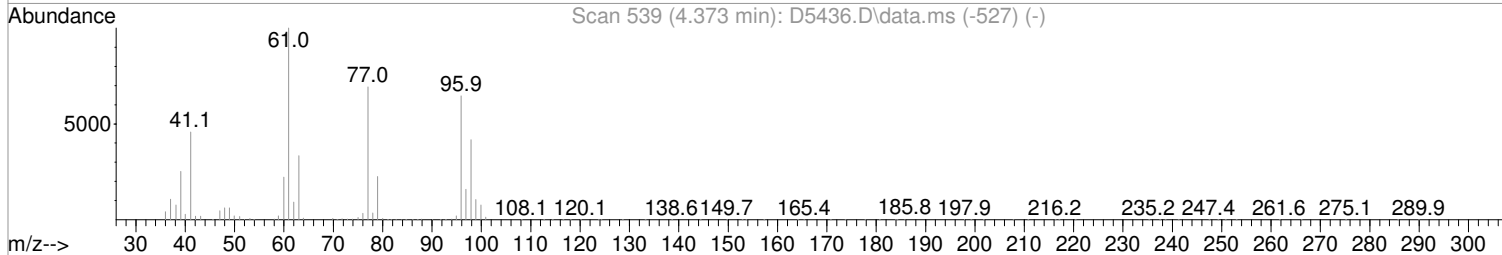
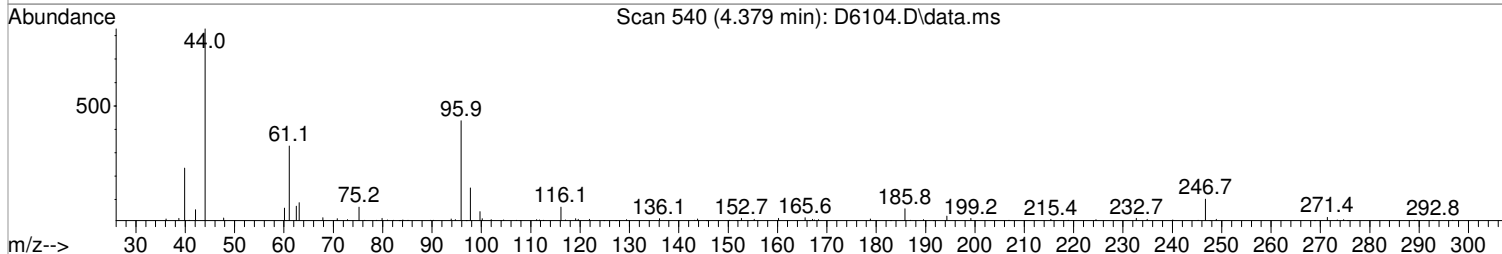
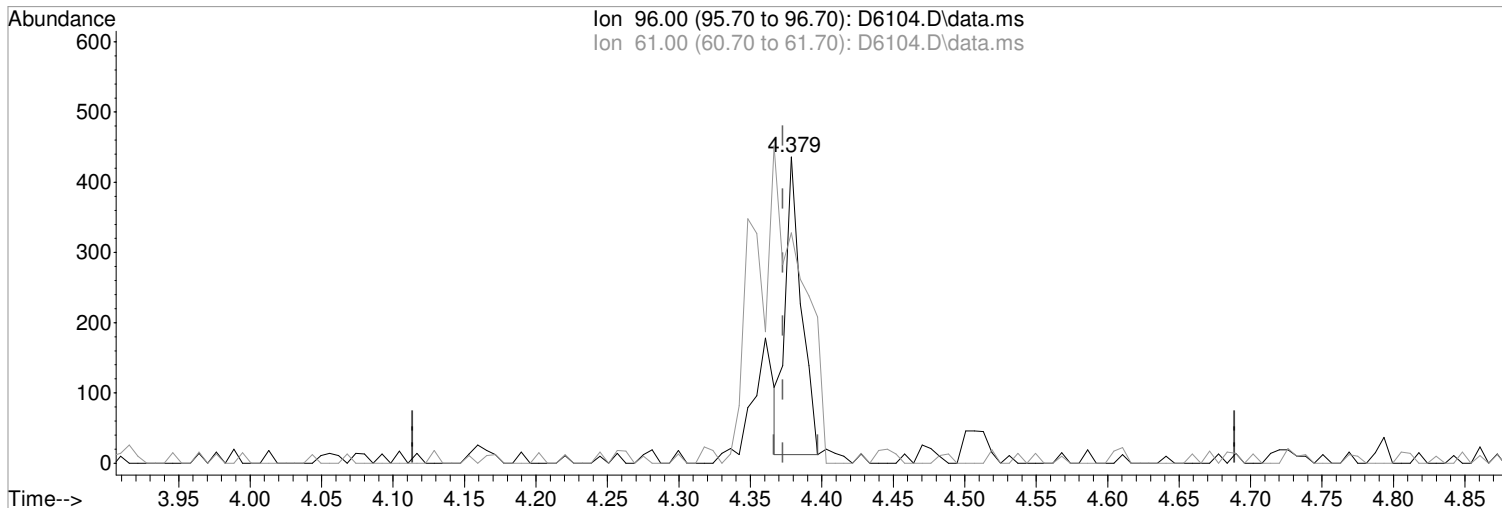
Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6104.D
Acq On : 25 Sep 2018 12:53 pm
Operator : D.LIPANI
Sample : R1809120-008|1.0
Misc : Verina 7979 T4
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 13:08:12 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6104.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.379min (+0.006) 0.14 ug/L

response 327

Ion Exp% Act%

96.00 100 100

61.00 154.70 75.23#

0.00 0.00 0.00

0.00 0.00 0.00

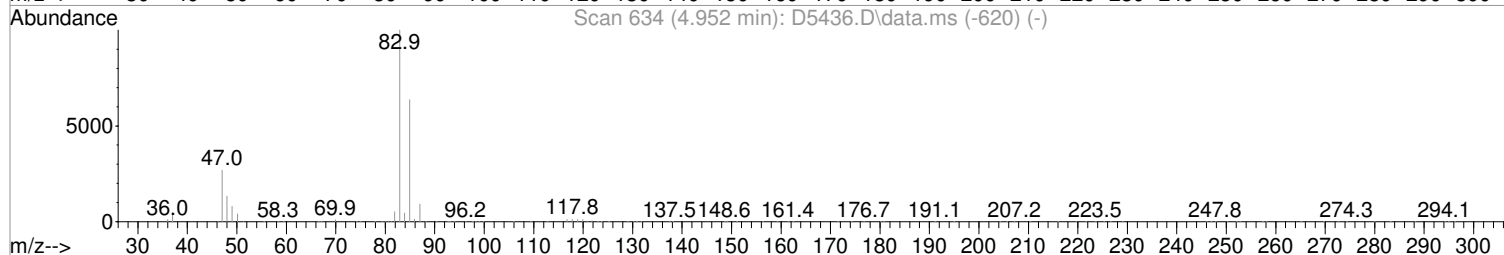
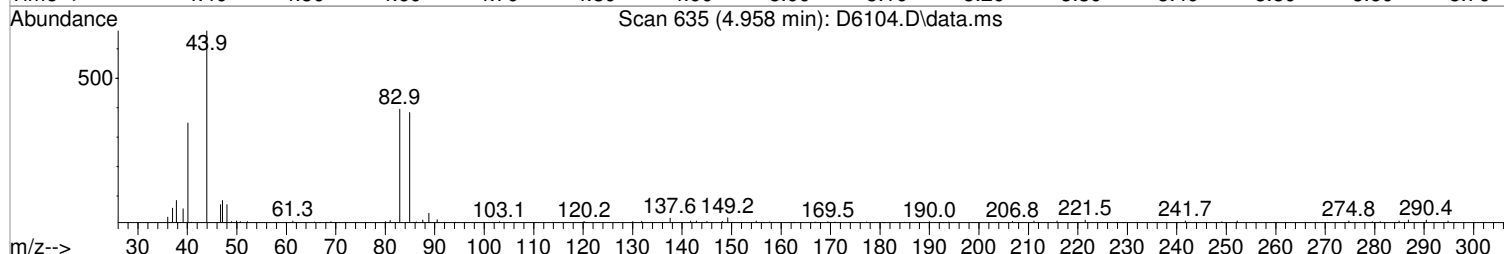
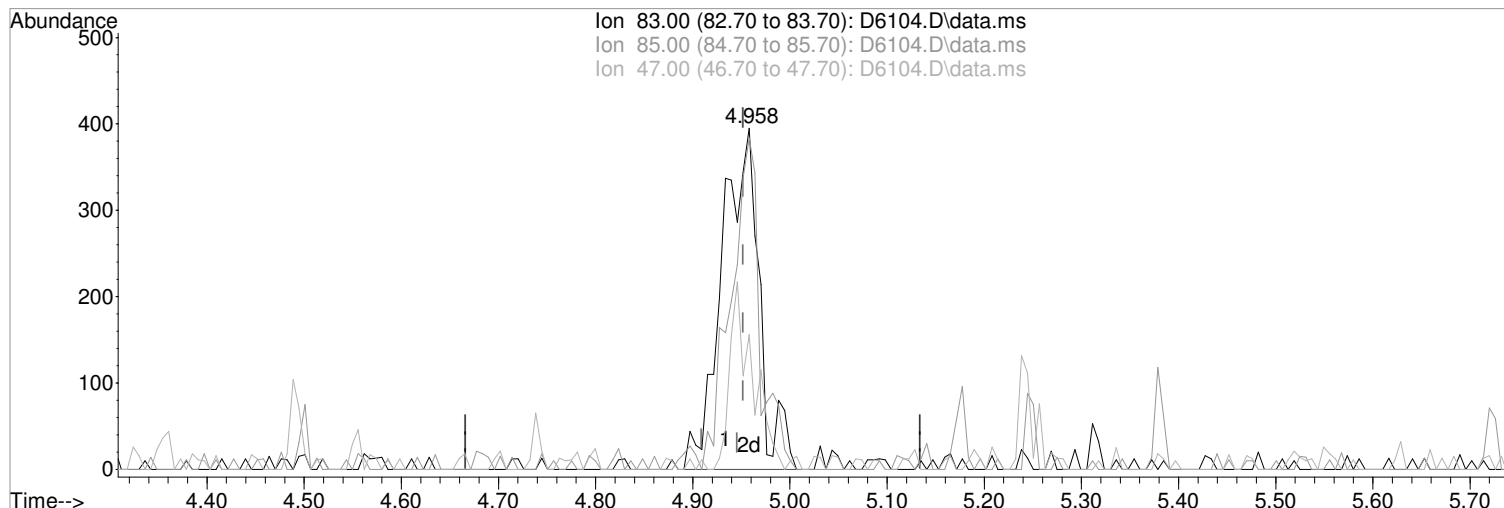
Manual Integration:

Before

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6104.D
Acq On : 25 Sep 2018 12:53 pm
Operator : D.LIPANI
Sample : R1809120-008|1.0
Misc : Verina 7979 T4
ALS Vial : 11 Sample Multiplier: 1
Inst : MSVOA10

Quant Time: Sep 25 13:08:12 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(39) Chloroform (P)

4.958min (+0.006) 0.29 ug/L m

response 1058

| Ion | Exp% | Act% |
|-------|-------|--------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 97.22# |
| 47.00 | 26.90 | 21.52 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

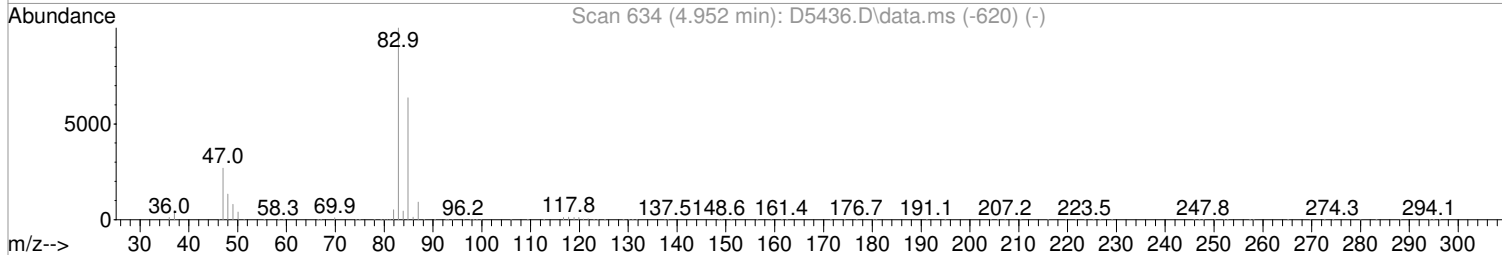
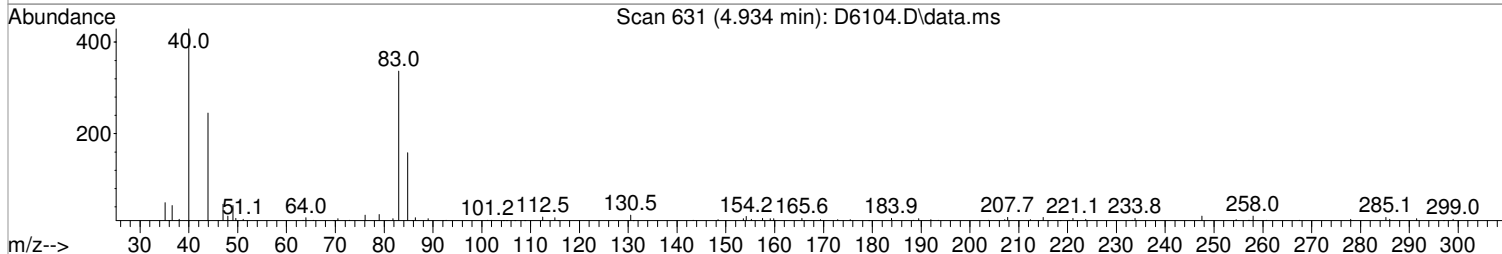
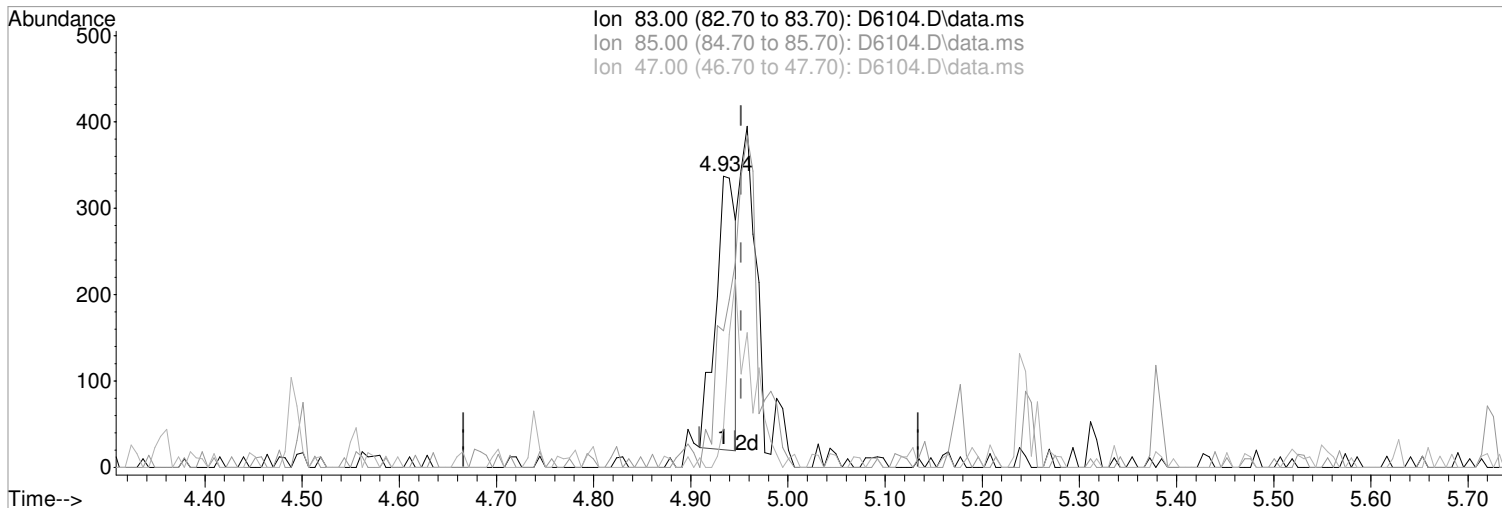
After

Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6104.D
Acq On : 25 Sep 2018 12:53 pm
Operator : D.LIPANI
Sample : R1809120-008|1.0
Misc : Verina 7979 T4
ALS Vial : 11 Sample Multiplier: 1
Inst : MSVOA10

Quant Time: Sep 25 13:08:12 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(39) Chloroform (P)
4.934min (-0.018) 0.12 ug/L
response 457

Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 46.88 |
| 47.00 | 26.90 | 13.65 |
| 0.00 | 0.00 | 0.00 |

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6104.D
 Acq On : 25 Sep 2018 12:53 pm
 Operator : D.LIPANI
 Sample : R1809120-008|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 15:19:47 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

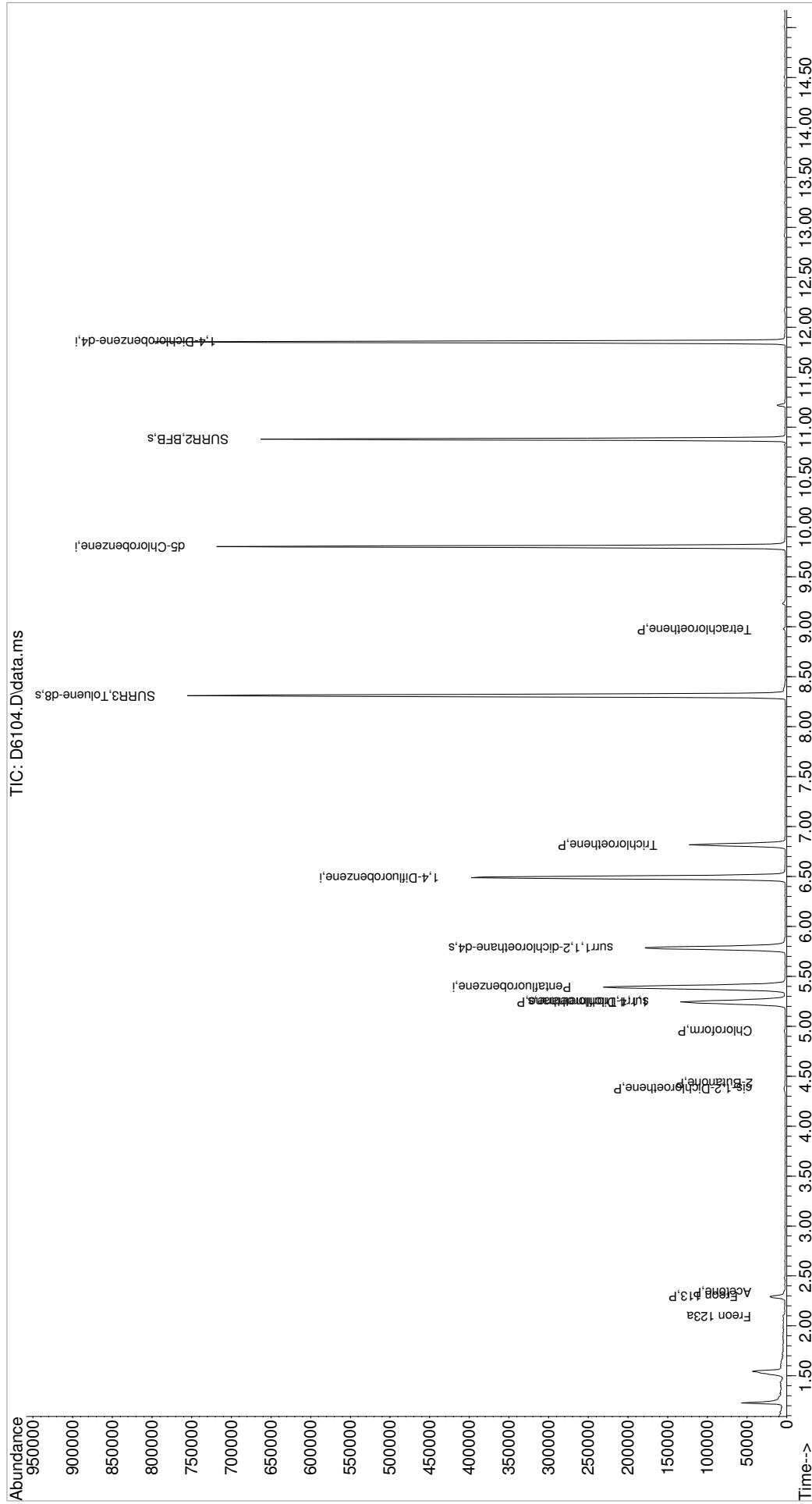
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|------------|-----------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 208301 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 325199 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 282716 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 141508 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.244 | 113 | 104197 | 47.55 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 95.10% | | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 151710 | 52.64 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 105.28% | | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 427368 | 48.10 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 96.20% | | |
| 69) SURR2,BFB | 10.878 | 95 | 152191 | 44.57 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 89.14% | | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.593 | 94 | 433 | Below Cal | | 89 |
| 10) Freon 123a | 2.093 | 67 | 930 | 0.35 | ug/L | 97 |
| 14) Freon 113 | 2.294 | 101 | 6613 | 3.46 | ug/L | 99 |
| 15) Acetone | 2.336 | 43 | 2177 | 1.78 | ug/L # | 63 |
| 33) cis-1,2-Dichloroethene | 4.379 | 96 | 533m | 0.23 | ug/L | |
| 34) 2-Butanone | 4.434 | 43 | 832 | 0.50 | ug/L # | 65 |
| 39) Chloroform | 4.958 | 83 | 1058m | 0.29 | ug/L | |
| 40) 1,1,1-Trichloroethane | 5.244 | 97 | 1297 | 0.42 | ug/L # | 78 |
| 53) Trichloroethene | 6.817 | 130 | 37355 | 16.50 | ug/L | 92 |
| 71) Tetrachloroethene | 8.975 | 164 | 391 | 0.22 | ug/L # | 70 |

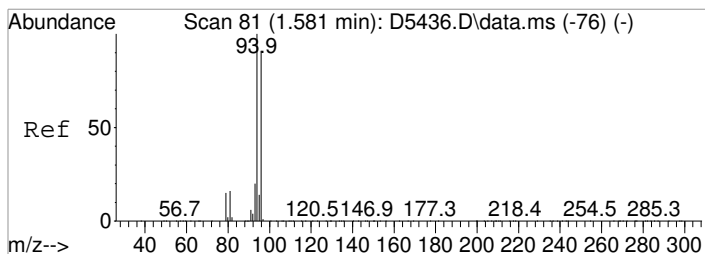
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6104.D
 Acq On : 25 Sep 2018 12:53 pm
 Operator : D.LIPANI
 Sample : R1809120-008|1.0
 Misc : Verina 7979 T4
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA10

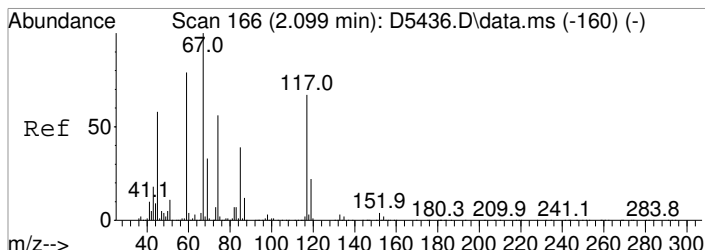
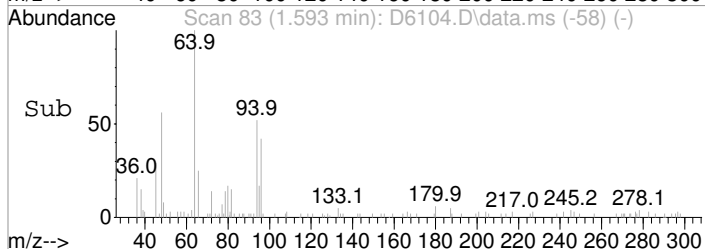
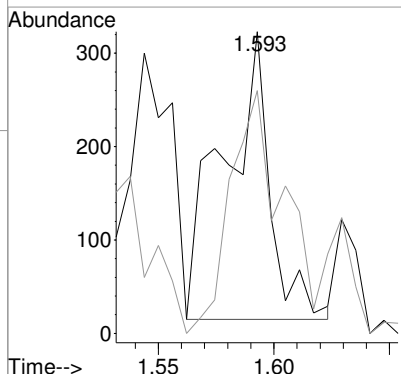
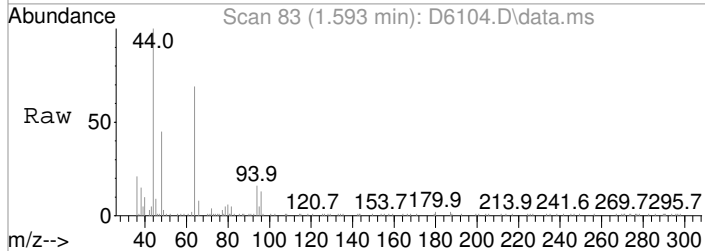
Quant Time: Sep 27 15:19:47 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration





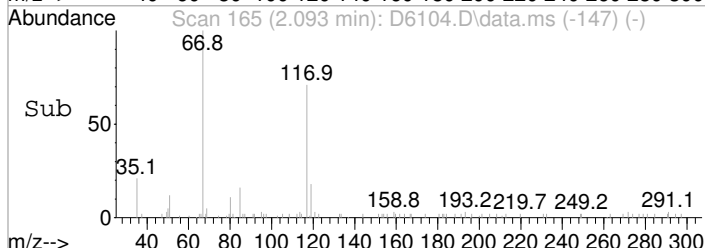
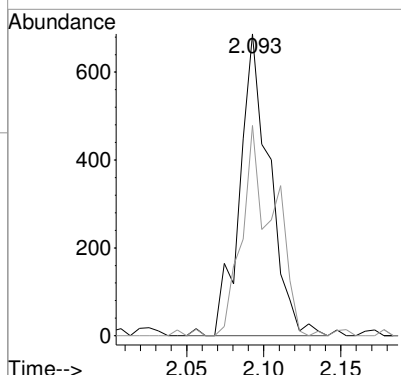
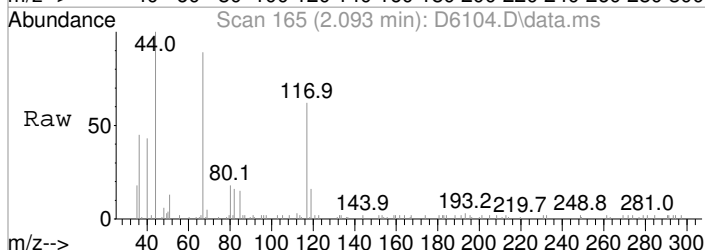
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.593 min Scan# 83
 Delta R.T. 0.012 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

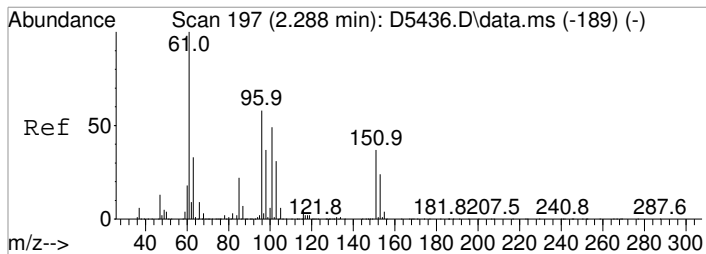
Tgt Ion: 94 Resp: 433
 Ion Ratio Lower Upper
 94 100
 96 80.5 71.1 111.1



#10
 Freon 123a
 Concen: 0.35 ug/L
 RT: 2.093 min Scan# 165
 Delta R.T. -0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

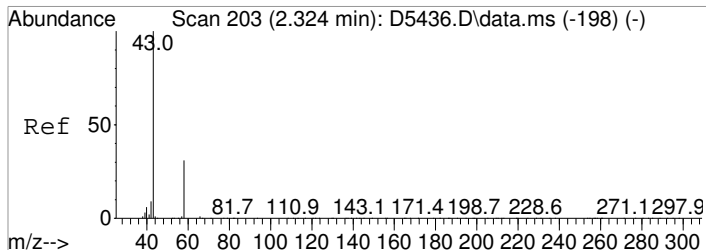
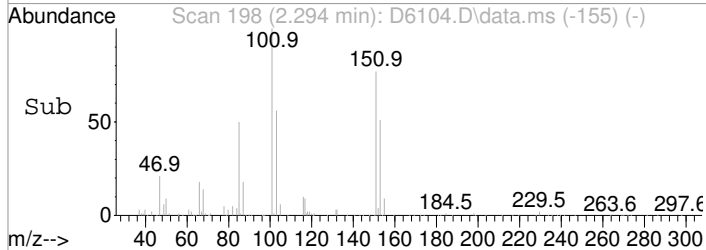
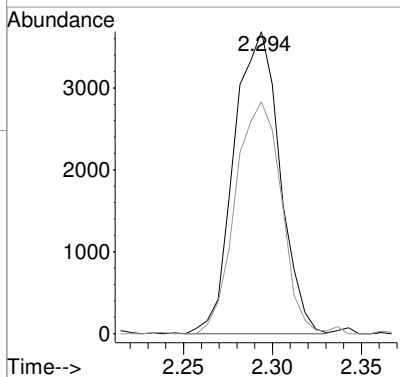
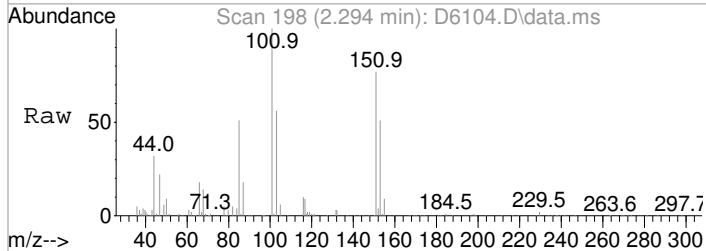
Tgt Ion: 67 Resp: 930
 Ion Ratio Lower Upper
 67 100
 117 69.7 47.5 87.5





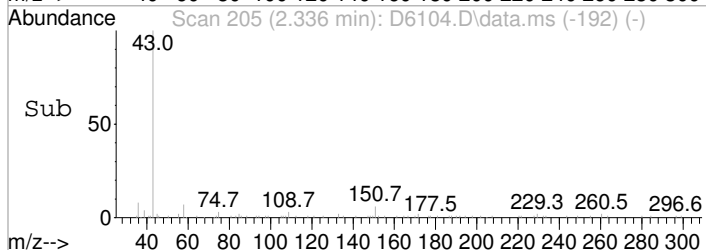
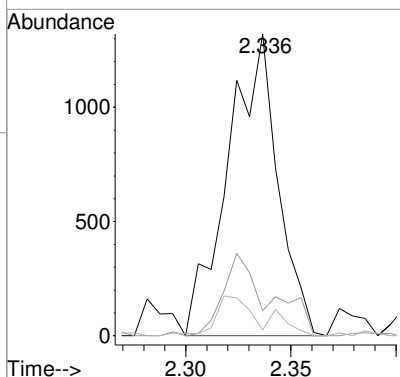
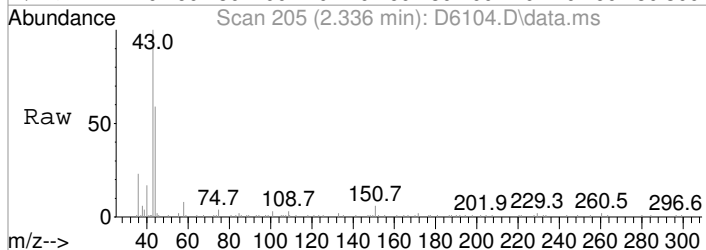
#14
 Freon 113
 Concen: 3.46 ug/L
 RT: 2.294 min Scan# 198
 Delta R.T. 0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

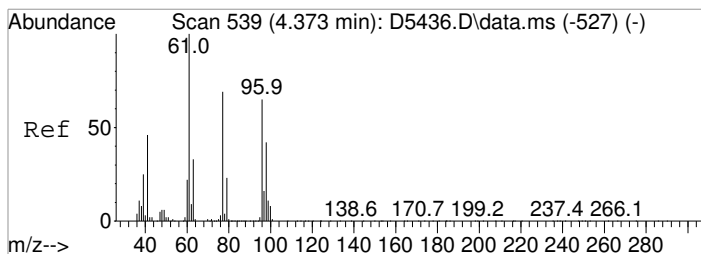
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 6613 | | |
| 101 | 100 | | |
| 151 | 76.8 | 56.1 | 96.1 |



#15
 Acetone
 Concen: 1.78 ug/L
 RT: 2.336 min Scan# 205
 Delta R.T. 0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

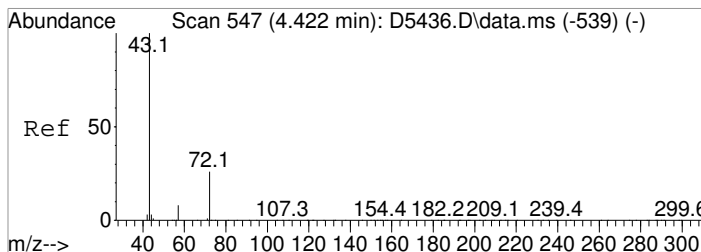
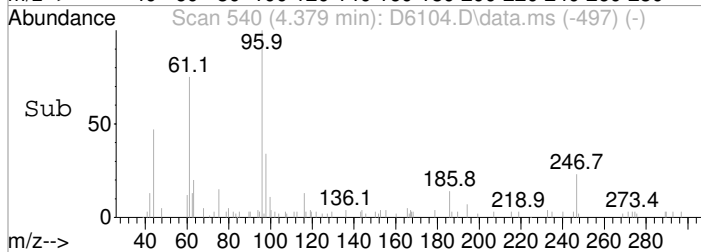
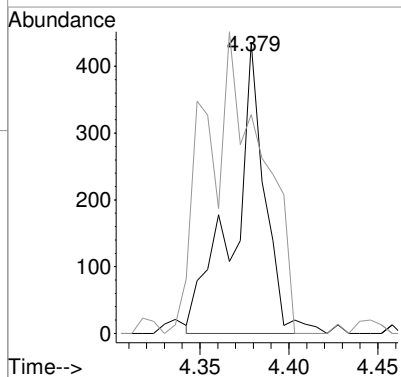
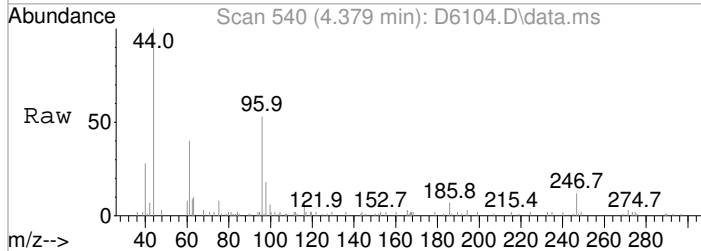
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 2177 | | |
| 43 | 100 | | |
| 58 | 8.3 | 11.2 | 51.2# |
| 42 | 2.0 | 0.0 | 28.6 |





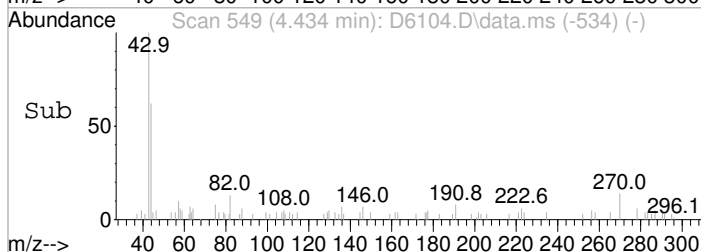
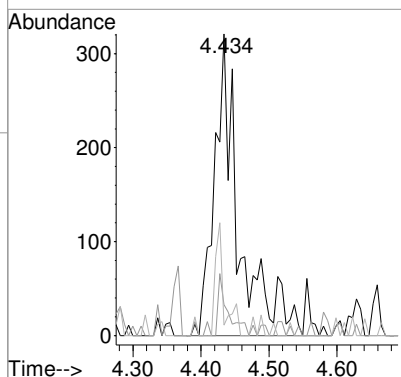
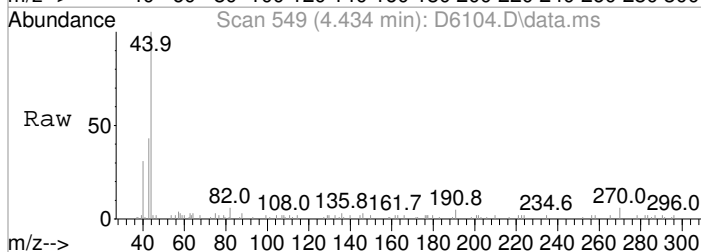
#33
 cis-1,2-Dichloroethene
 Concen: 0.23 ug/L m
 RT: 4.379 min Scan# 540
 Delta R.T. 0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

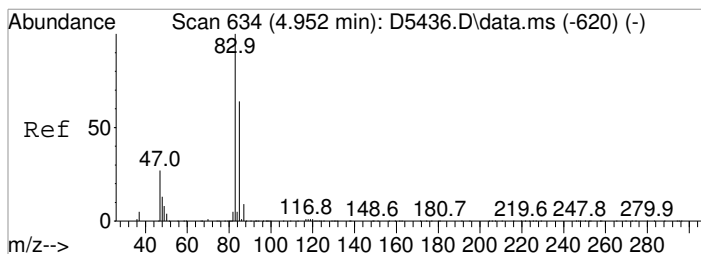
Tgt Ion: 96 Resp: 533
 Ion Ratio Lower Upper
 96 100
 61 75.2 134.7 174.7#



#34
 2-Butanone
 Concen: 0.50 ug/L
 RT: 4.434 min Scan# 549
 Delta R.T. 0.018 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

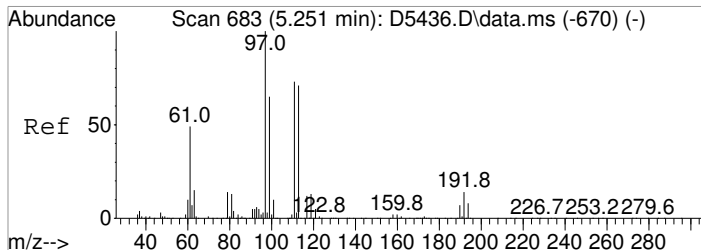
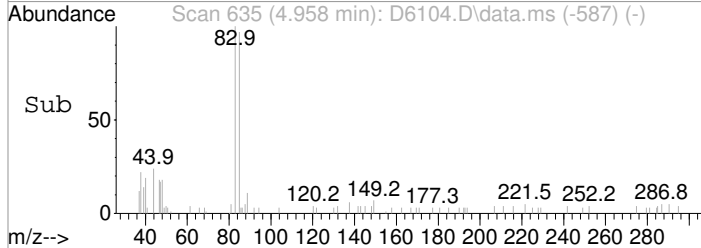
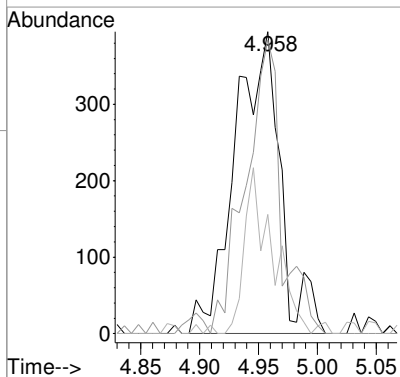
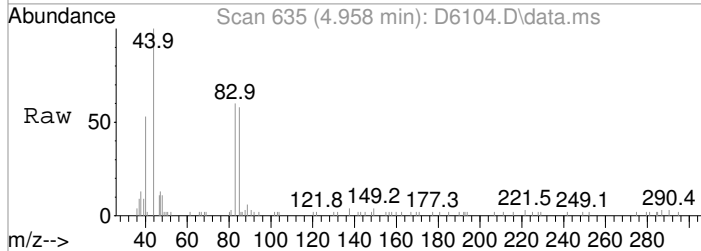
Tgt Ion: 43 Resp: 832
 Ion Ratio Lower Upper
 43 100
 57 10.3 0.0 27.8
 72 3.4 5.1 45.1#





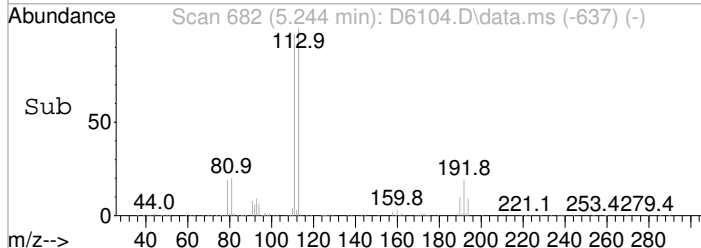
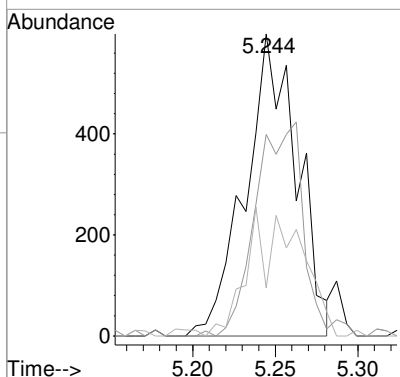
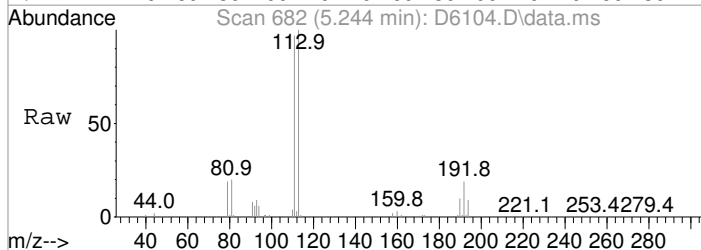
#39
 Chloroform
 Concen: 0.29 ug/L m
 RT: 4.958 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

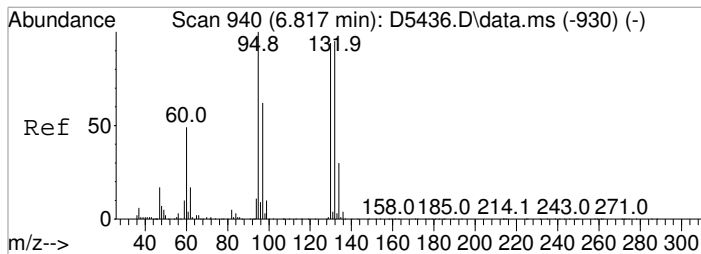
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 83 | 1058 | | |
| 83 | 100 | | |
| 85 | 97.2 | 43.7 | 83.7# |
| 47 | 21.5 | 6.9 | 46.9 |



#40
 1,1,1-Trichloroethane
 Concen: 0.42 ug/L
 RT: 5.244 min Scan# 682
 Delta R.T. -0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

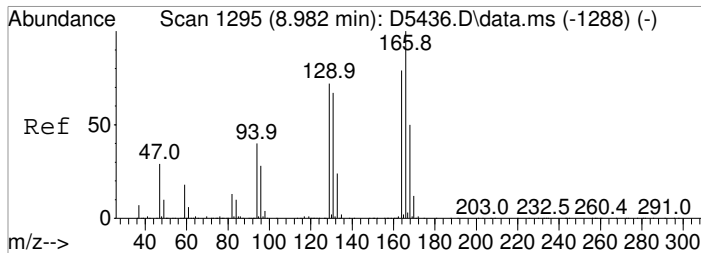
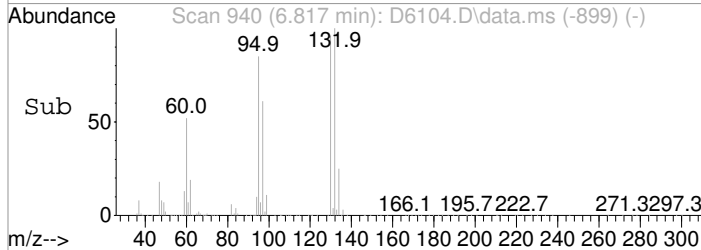
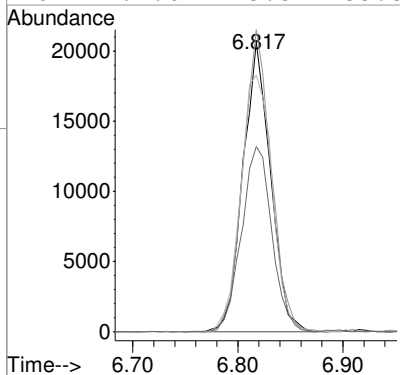
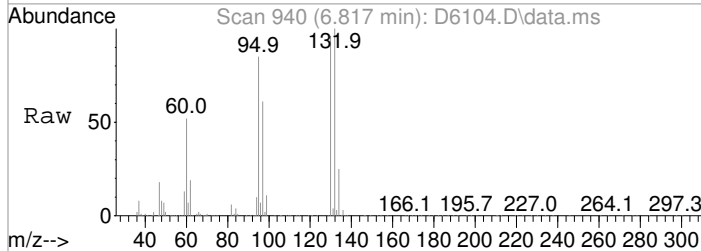
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 1297 | | |
| 97 | 100 | | |
| 99 | 66.7 | 45.0 | 85.0 |
| 61 | 15.9 | 29.1 | 69.1# |





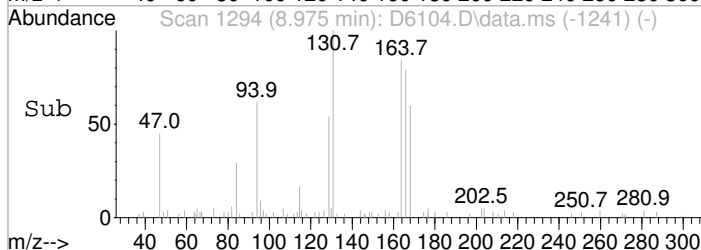
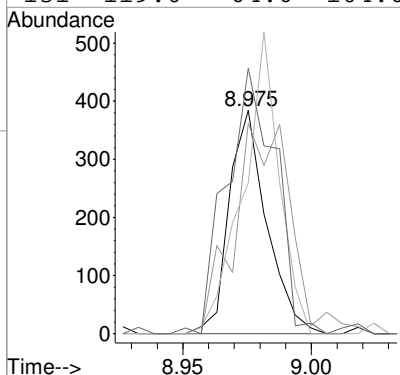
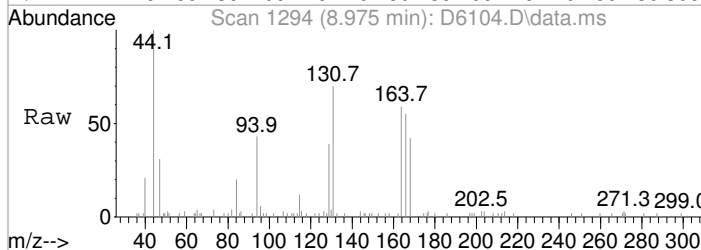
#53
 Trichloroethene
 Concen: 16.50 ug/L
 RT: 6.817 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 130 | 37355 | | |
| 130 | 100 | | |
| 132 | 104.3 | 80.7 | 120.7 |
| 95 | 88.6 | 86.1 | 126.1 |
| 97 | 64.0 | 45.5 | 85.5 |



#71
 Tetrachloroethene
 Concen: 0.22 ug/L
 RT: 8.975 min Scan# 1294
 Delta R.T. -0.006 min
 Lab File: D6104.D
 Acq: 25 Sep 2018 12:53 pm

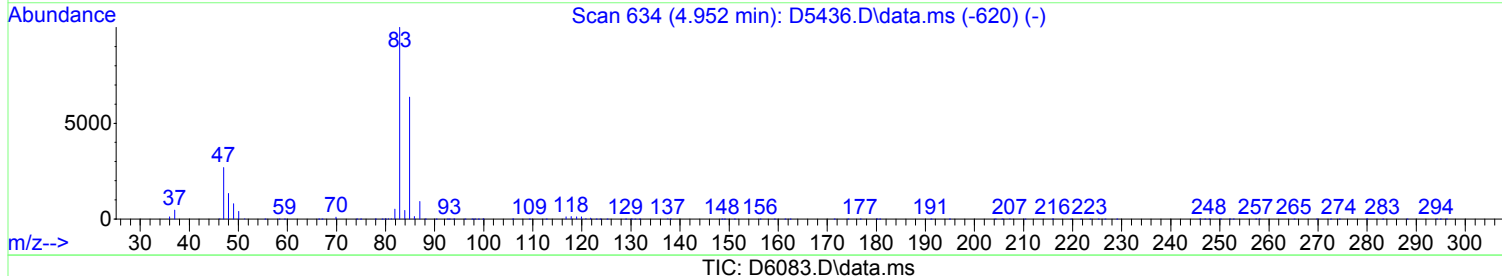
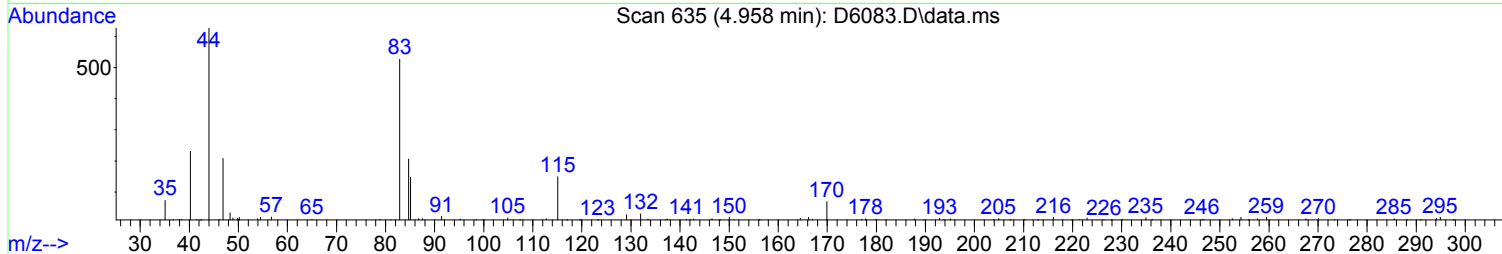
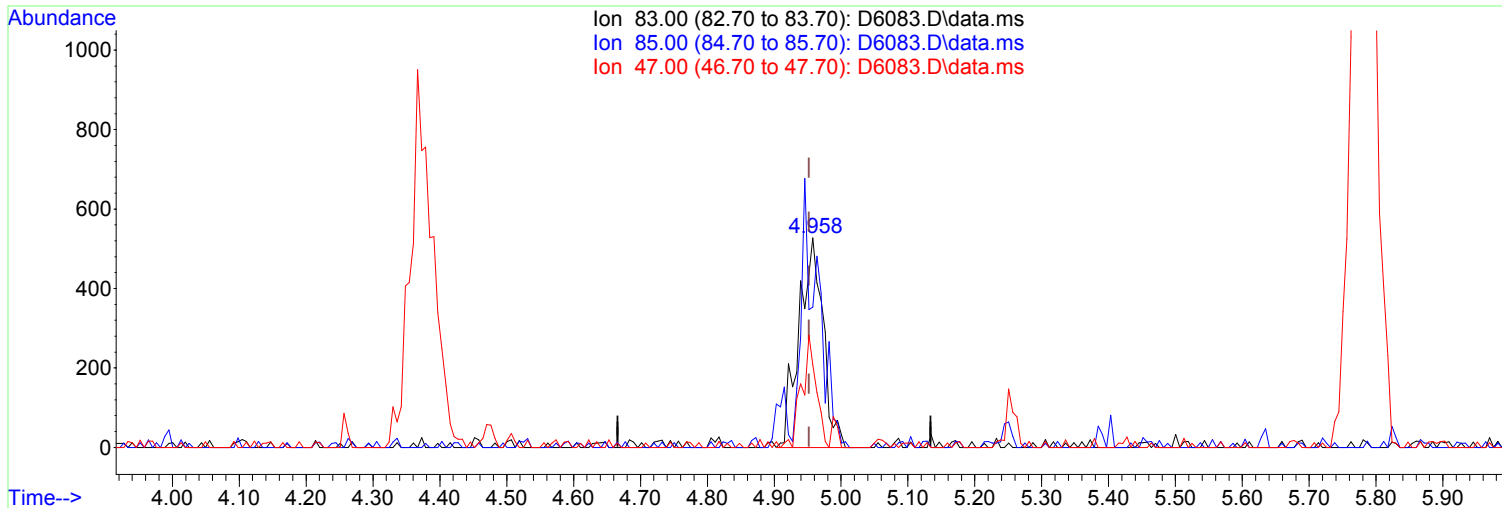
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 164 | 391 | | |
| 164 | 100 | | |
| 166 | 94.3 | 106.8 | 146.8# |
| 129 | 67.4 | 71.9 | 111.9# |
| 131 | 119.0 | 64.6 | 104.6# |



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6083.D
Acq On : 24 Sep 2018 6:44 pm
Operator : D.LIPANI
Sample : R1809120-009|1.0
Misc : Verina 7979 T4
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 18:58:22 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(39) Chloroform (P)

4.958min (+0.006) 0.37 ug/L m

response 1319

| Ion | Exp% | Act% |
|-------|-------|--------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 39.09# |
| 47.00 | 26.90 | 39.47 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

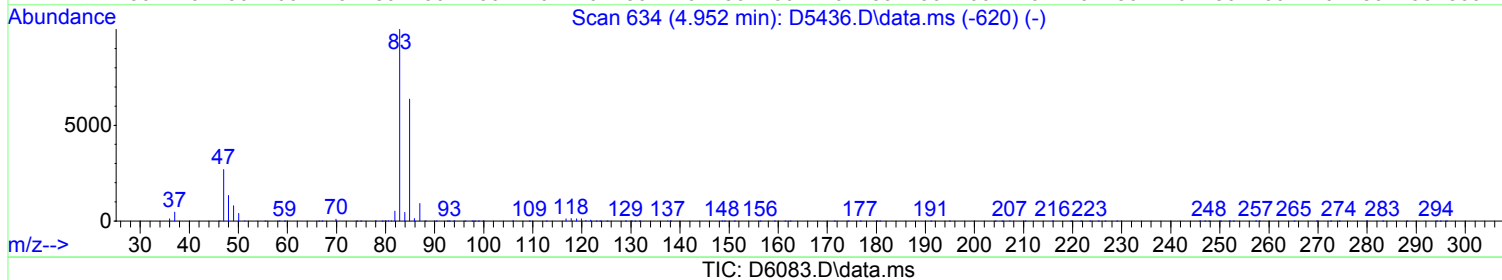
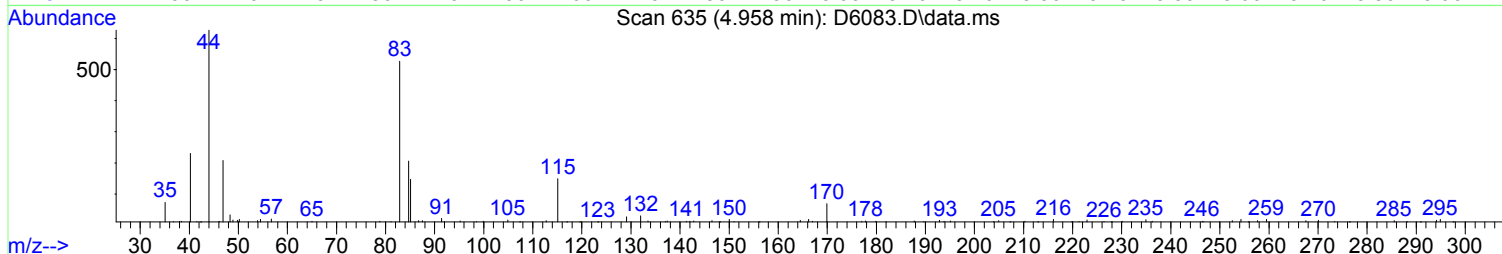
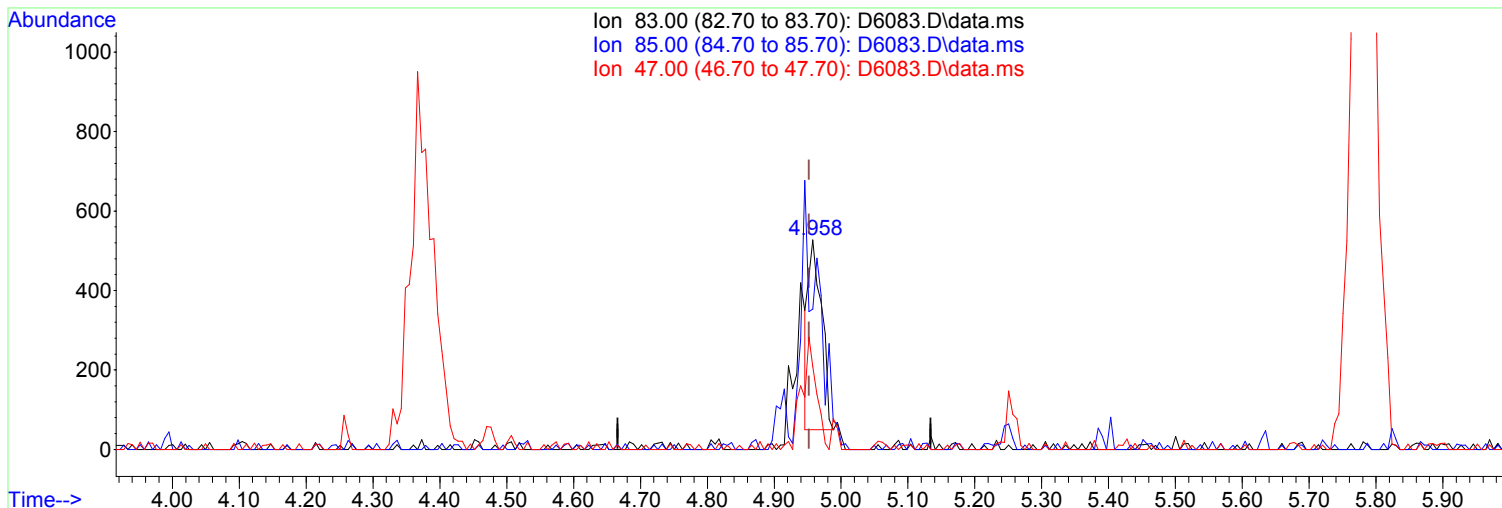
After

Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6083.D
Acq On : 24 Sep 2018 6:44 pm
Operator : D.LIPANI
Sample : R1809120-009|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 18:58:22 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(39) Chloroform (P)
4.958min (+0.006) 0.19 ug/L
response 664

Manual Integration:

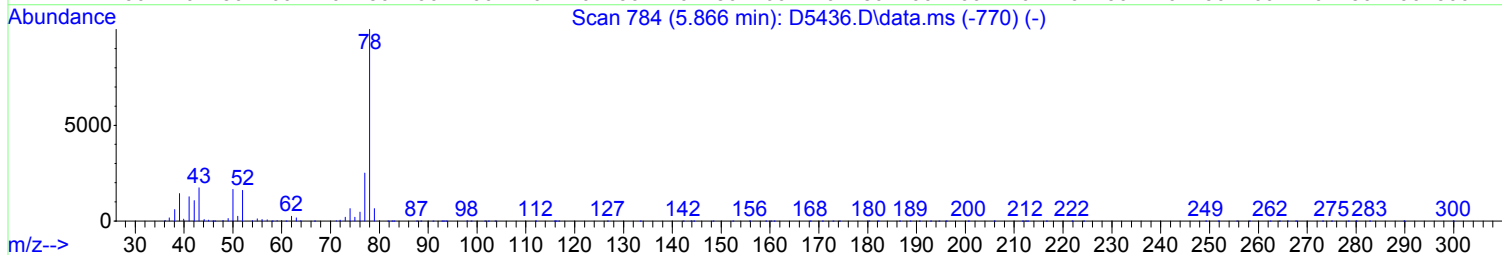
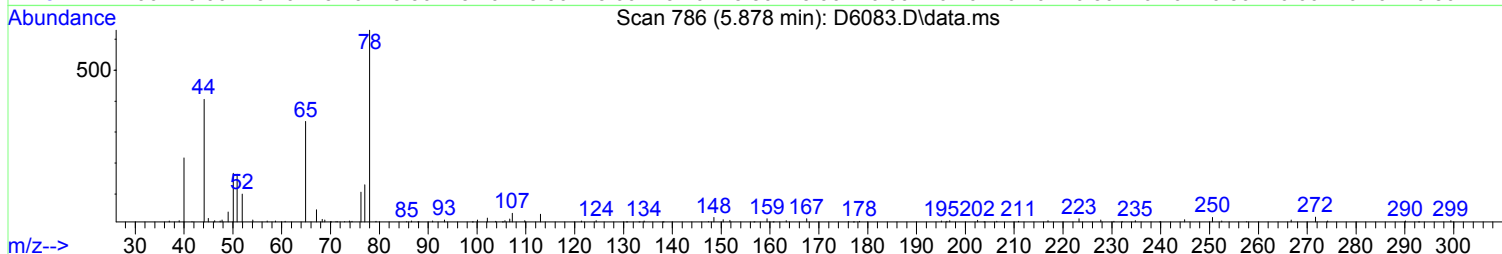
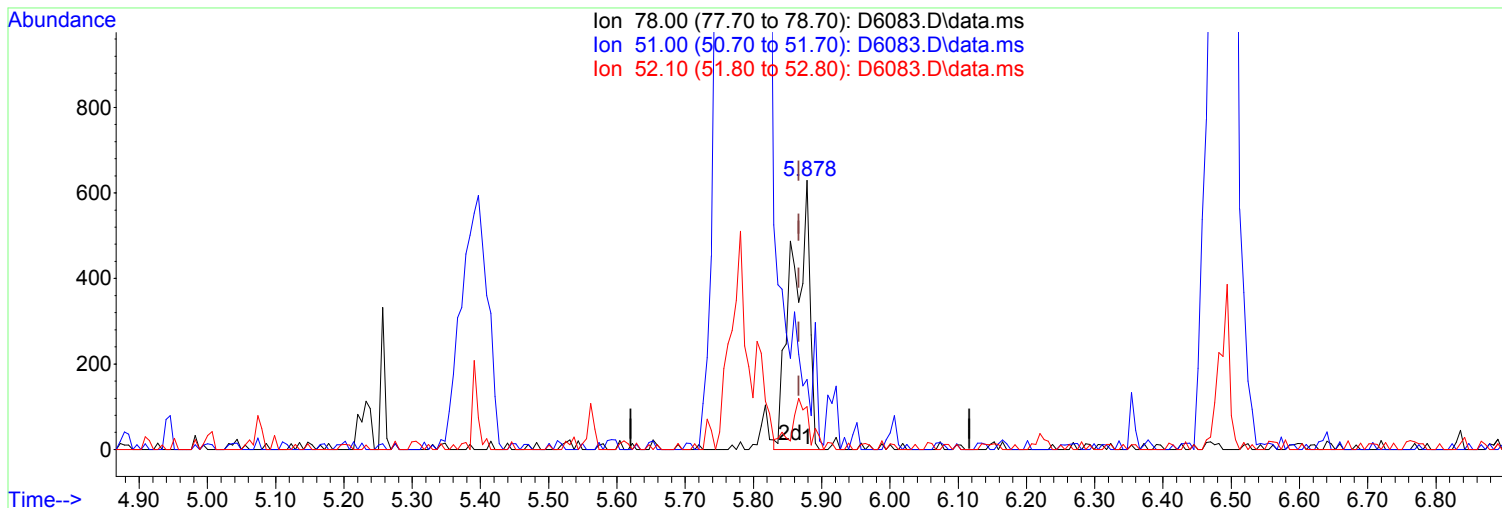
Before

| Ion | Exp% | Act% |
|-------|-------|-------|
| 83.00 | 100 | 100 |
| 85.00 | 63.70 | 66.98 |
| 47.00 | 26.90 | 39.47 |
| 0.00 | 0.00 | 0.00 |

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6083.D
Acq On : 24 Sep 2018 6:44 pm
Operator : D.LIPANI
Sample : R1809120-009|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 18:58:22 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(47) Benzene (P)

5.878min (+0.012) 0.13 ug/L m

response 1116

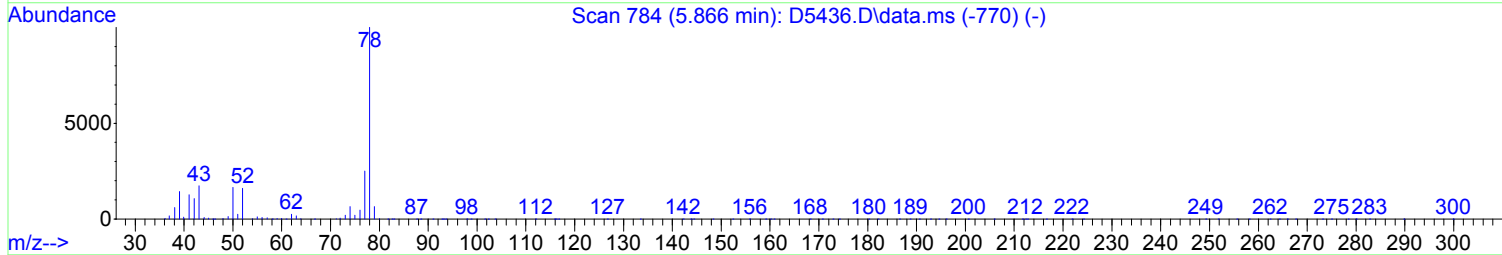
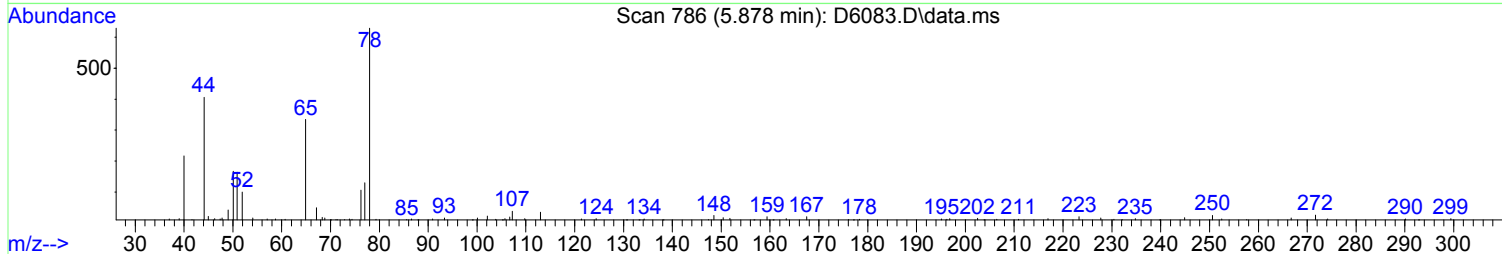
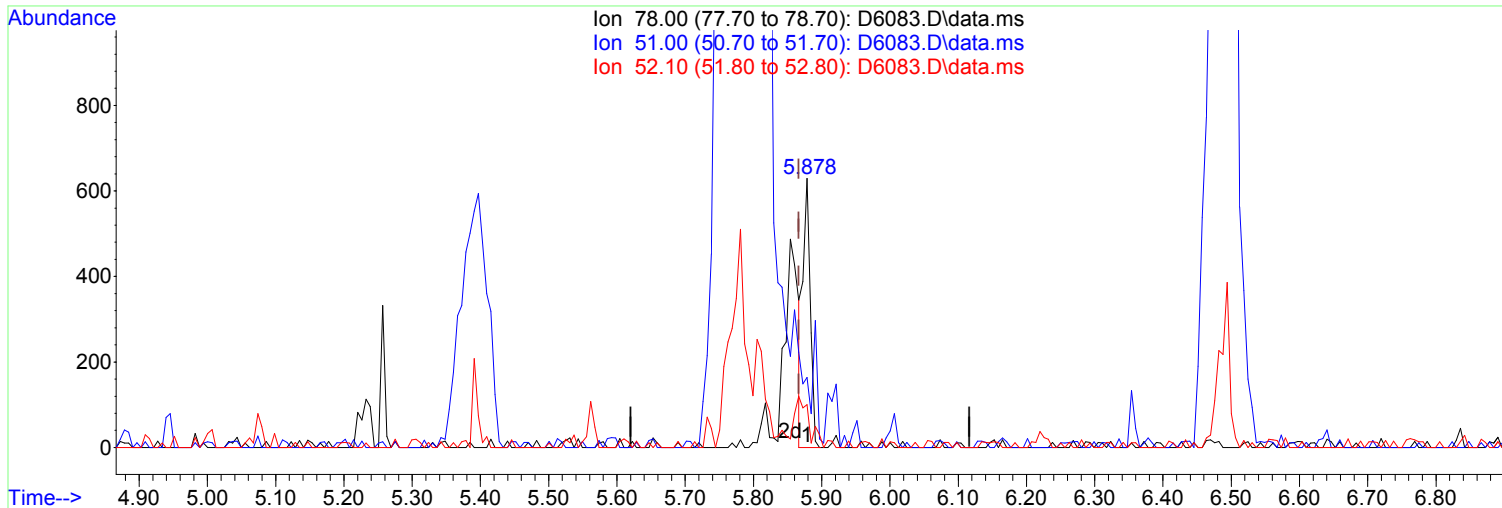
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 51.00 | 17.50 | 26.07 |
| 52.10 | 16.30 | 15.90 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6083.D
Acq On : 24 Sep 2018 6:44 pm
Operator : D.LIPANI
Sample : R1809120-009|1.0
Misc : Verina 7979 T4
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 18:58:22 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



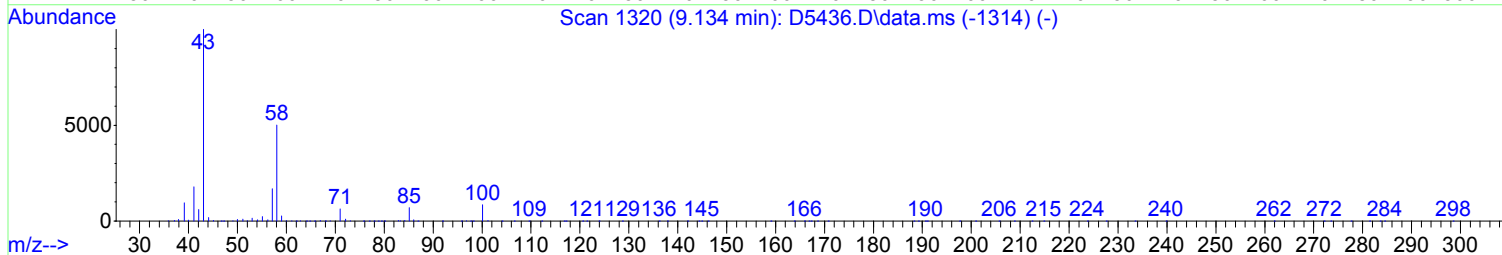
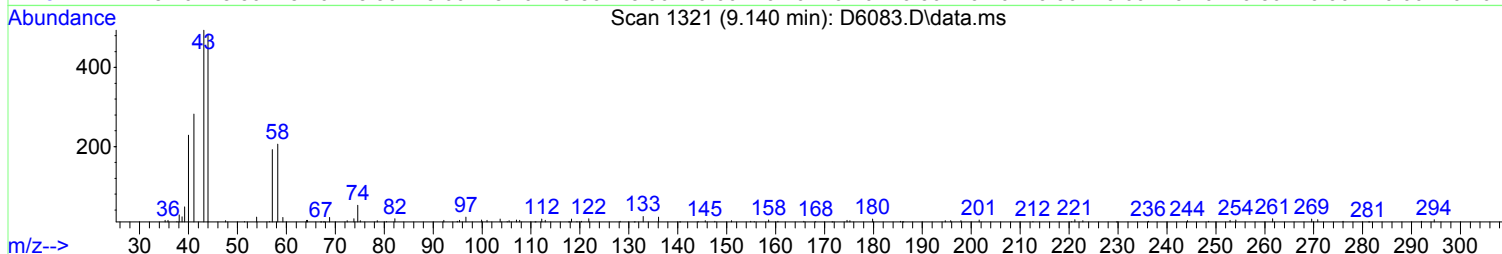
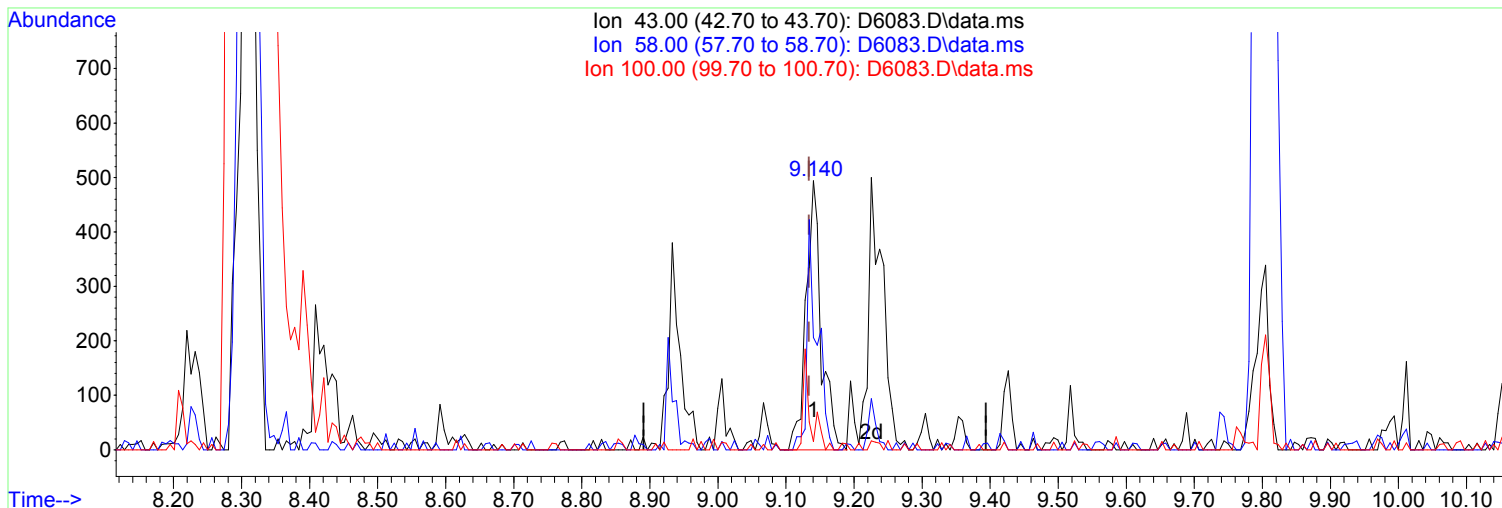
(47) Benzene (P)
5.878min (+0.012) 0.06 ug/L
response 476

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 51.00 | 17.50 | 26.07 |
| 52.10 | 16.30 | 15.90 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6083.D
Acq On : 24 Sep 2018 6:44 pm
Operator : D.LIPANI
Sample : R1809120-009|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 18:58:22 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(72) 2-Hexanone (P)

9.140min (+0.006) 0.34 ug/L m

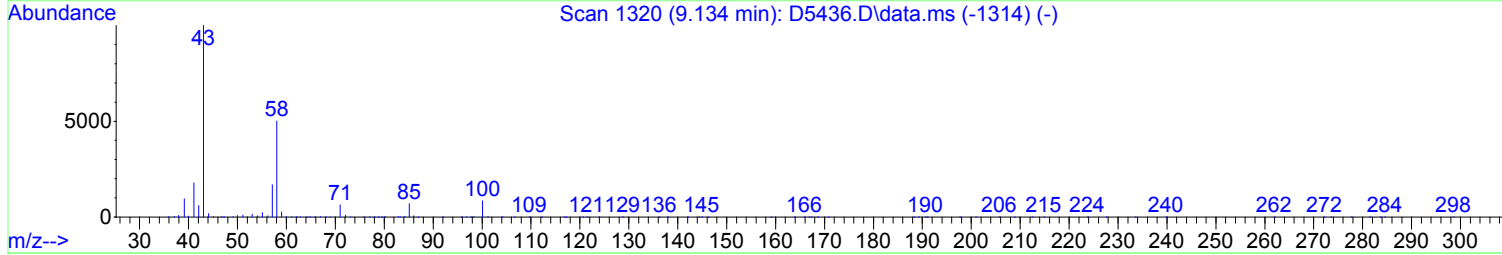
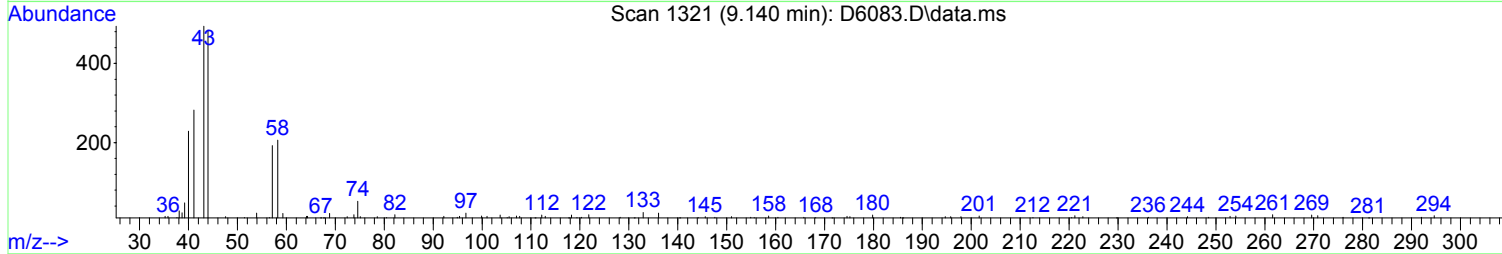
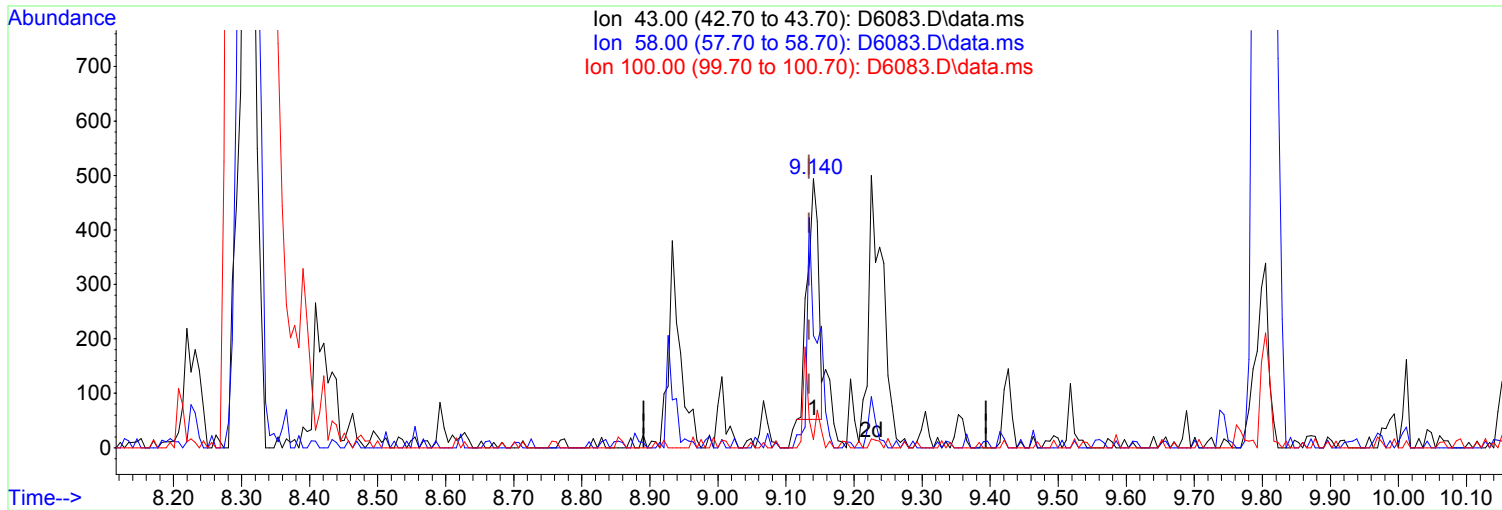
response 774

| Ion | Exp% | Act% |
|--------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 50.10 | 41.70 |
| 100.00 | 8.60 | 3.04 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6083.D
Acq On : 24 Sep 2018 6:44 pm
Operator : D.LIPANI
Sample : R1809120-009|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 18:58:22 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(72) 2-Hexanone (P)

9.140min (+0.006) 0.22 ug/L

response 506

| Ion | Exp% | Act% |
|--------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 50.10 | 41.70 |
| 100.00 | 8.60 | 3.04 |
| 0.00 | 0.00 | 0.00 |

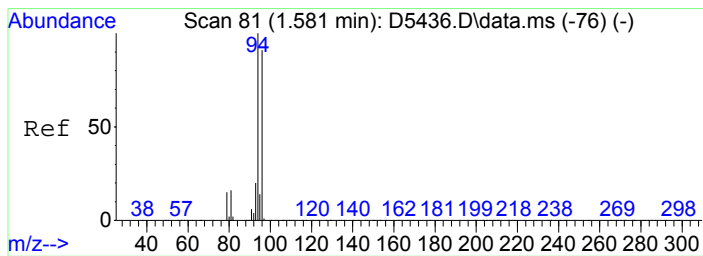
Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6083.D
 Acq On : 24 Sep 2018 6:44 pm
 Operator : D.LIPANI
 Sample : R1809120-009|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 27 15:13:51 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

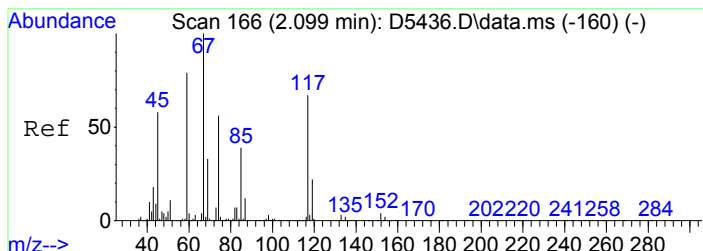
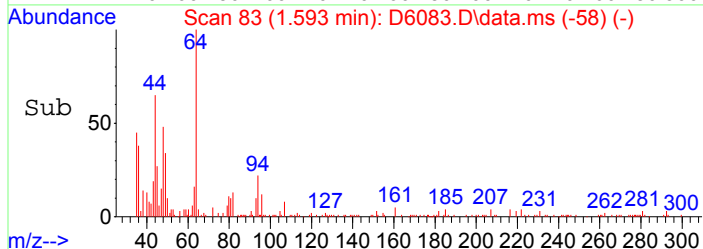
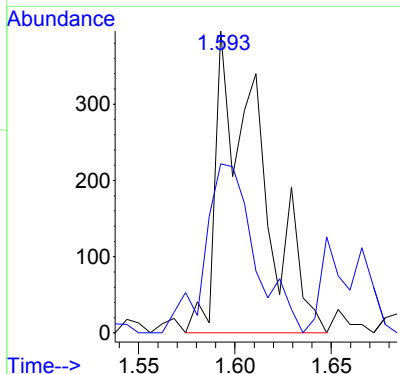
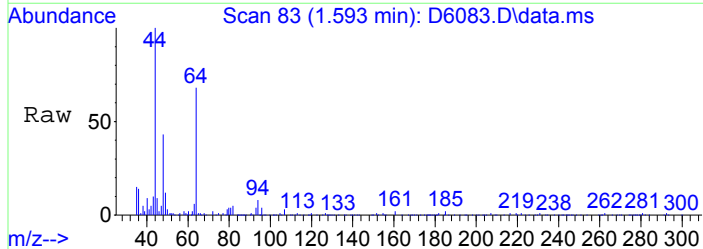
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 201911 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.494 | 114 | 310169 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 268335 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 138001 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 102535 | 49.05 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 98.10% | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 148680 | 54.09 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 108.18% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 418886 | 49.43 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 98.86% | |
| 69) SURR2,BFB | 10.877 | 95 | 147617 | 45.32 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 90.64% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.593 | 94 | 638 | Below Cal | # | 61 |
| 10) Freon 123a | 2.099 | 67 | 2011 | 0.78 | ug/L | 81 |
| 14) Freon 113 | 2.288 | 101 | 1060 | 0.57 | ug/L | 82 |
| 15) Acetone | 2.336 | 43 | 23419 | 19.72 | ug/L | 91 |
| 18) Carbon Disulfide | 2.477 | 76 | 1781 | 0.35 | ug/L | 96 |
| 21) Methyl Acetate | 2.641 | 43 | 571 | 0.24 | ug/L | # 67 |
| 27) 1,1-Dicethane | 3.531 | 63 | 8340 | 2.14 | ug/L | 80 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 23485 | 10.59 | ug/L | 99 |
| 34) 2-Butanone | 4.421 | 43 | 4308 | 2.68 | ug/L | 94 |
| 39) Chloroform | 4.958 | 83 | 1319m | 0.37 | ug/L | |
| 40) 1,1,1-Trichloroethane | 5.244 | 97 | 1858 | 0.62 | ug/L | # 76 |
| 53) Trichloroethene | 6.817 | 130 | 18784 | 8.70 | ug/L | 89 |
| 71) Tetrachloroethene | 8.975 | 164 | 395 | 0.24 | ug/L | # 41 |
| 72) 2-Hexanone | 9.140 | 43 | 774m | 0.34 | ug/L | |

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



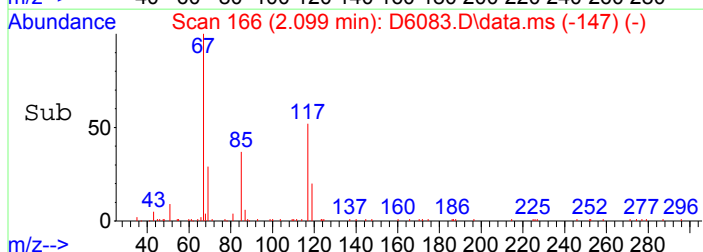
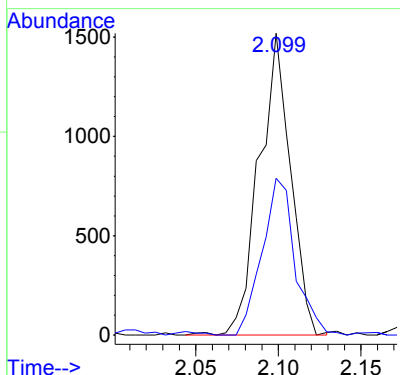
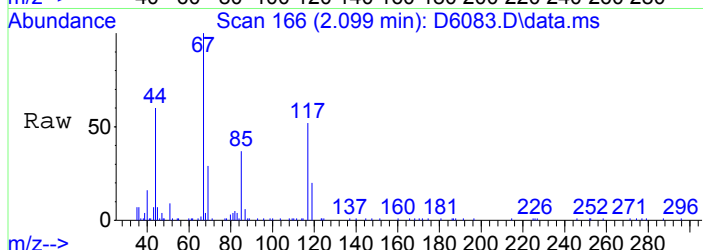
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.593 min Scan# 83
 Delta R.T. 0.012 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

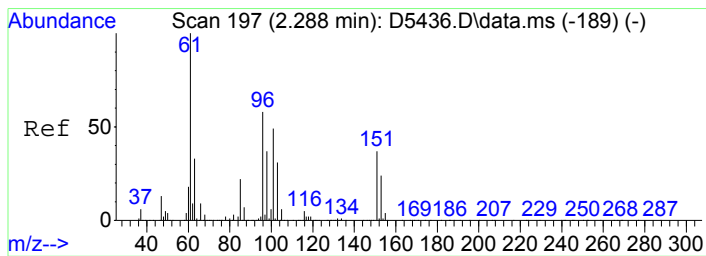
Tgt Ion: 94 Resp: 638
 Ion Ratio Lower Upper
 94 100
 96 54.5 71.1 111.1#



#10
 Freon 123a
 Concen: 0.78 ug/L
 RT: 2.099 min Scan# 166
 Delta R.T. -0.000 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

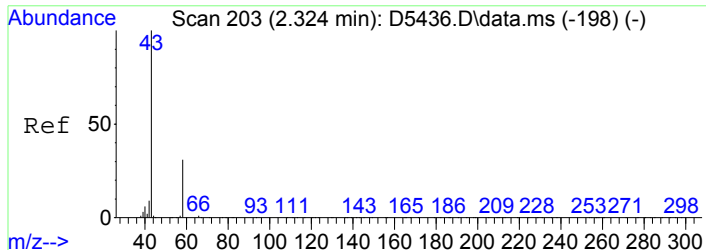
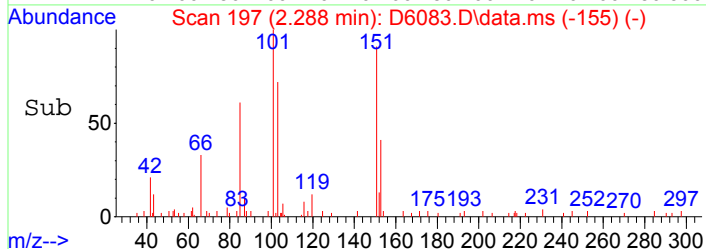
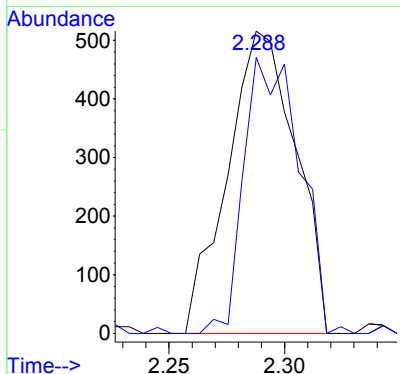
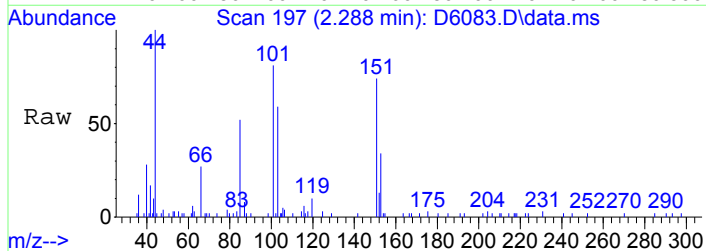
Tgt Ion: 67 Resp: 2011
 Ion Ratio Lower Upper
 67 100
 117 52.0 47.5 87.5





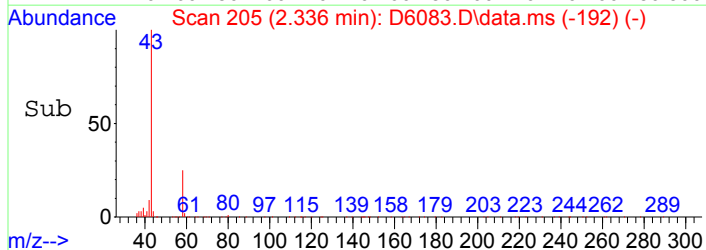
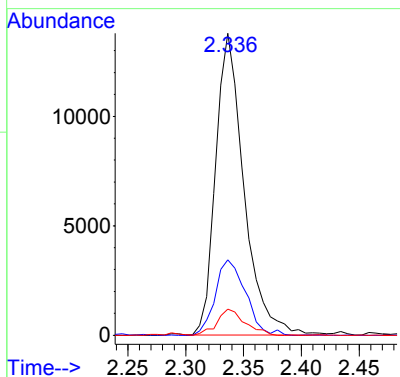
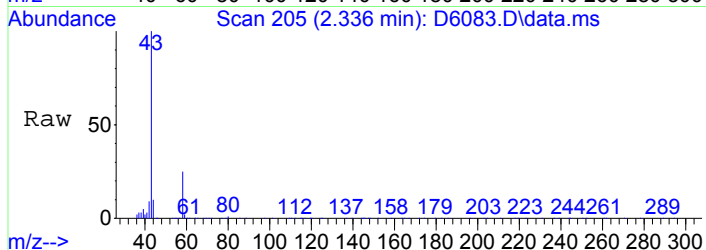
#14
 Freon 113
 Concen: 0.57 ug/L
 RT: 2.288 min Scan# 197
 Delta R.T. -0.000 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

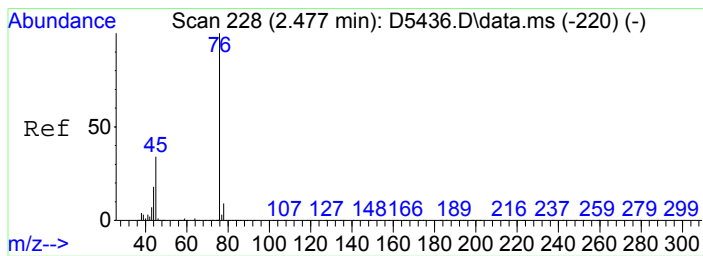
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 1060 | | |
| 101 | 100 | | |
| 151 | 91.3 | 56.1 | 96.1 |



#15
 Acetone
 Concen: 19.72 ug/L
 RT: 2.336 min Scan# 205
 Delta R.T. 0.006 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

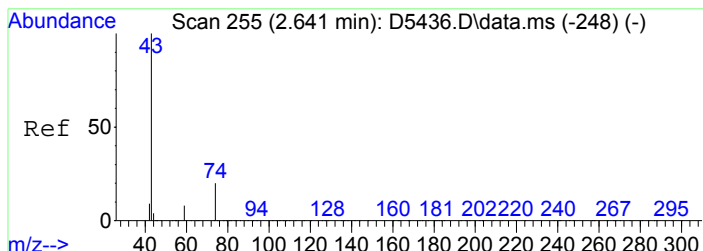
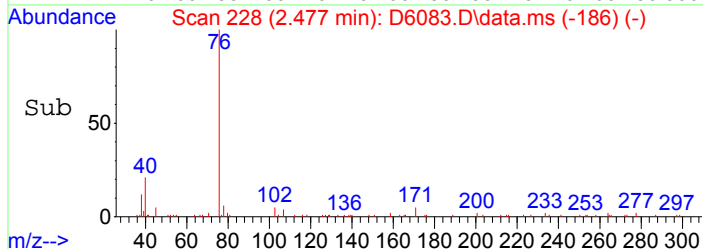
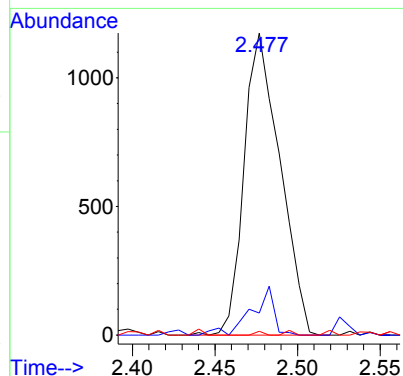
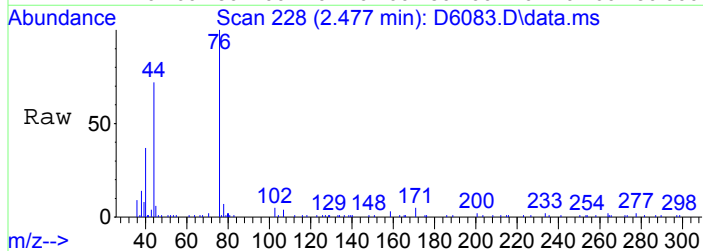
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 23419 | | |
| 43 | 100 | | |
| 58 | 25.0 | 11.2 | 51.2 |
| 42 | 8.6 | 0.0 | 28.6 |





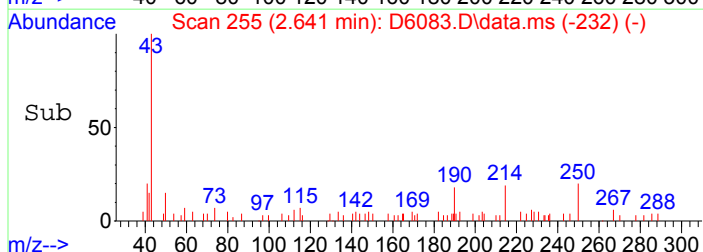
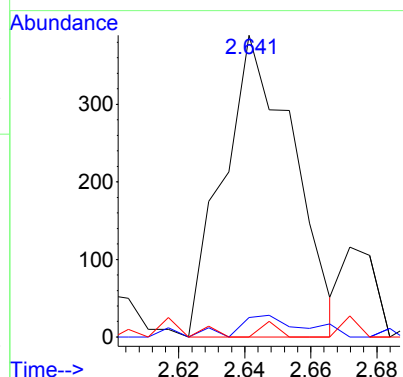
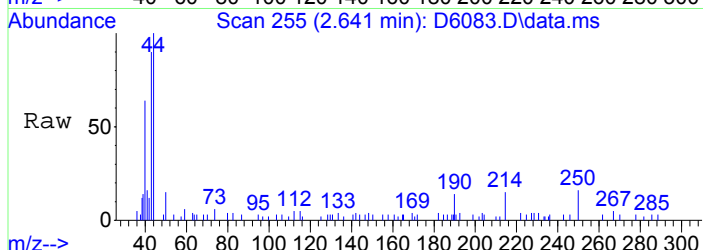
#18
 Carbon Disulfide
 Concen: 0.35 ug/L
 RT: 2.477 min Scan# 228
 Delta R.T. -0.000 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

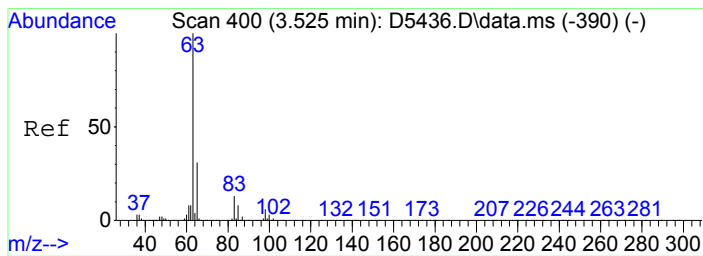
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 76 | 1781 | | |
| 78 | 7.3 | 0.0 | 28.8 |
| 77 | 1.3 | 0.0 | 22.9 |



#21
 Methyl Acetate
 Concen: 0.24 ug/L
 RT: 2.641 min Scan# 255
 Delta R.T. -0.000 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

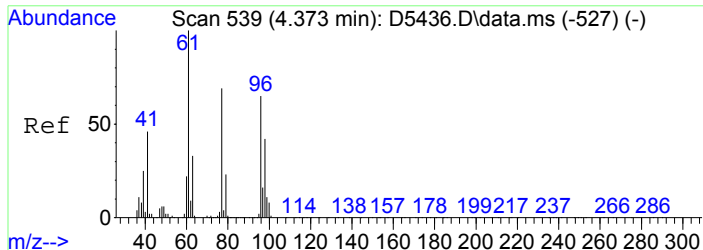
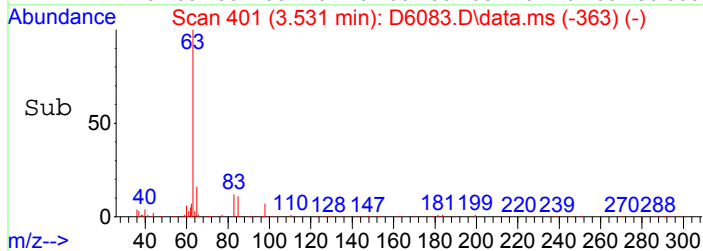
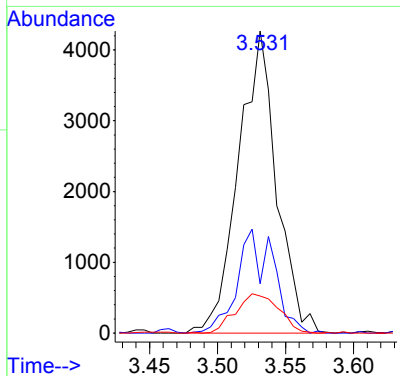
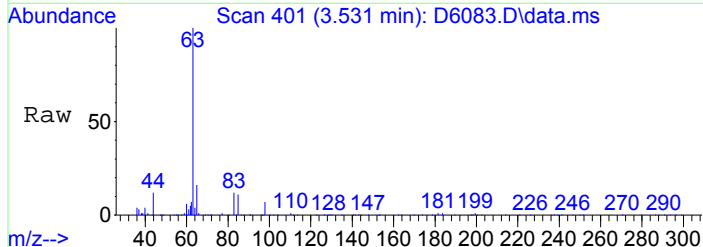
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 571 | | |
| 59 | 6.4 | 0.0 | 28.1 |
| 74 | 0.0 | 0.2 | 40.2# |





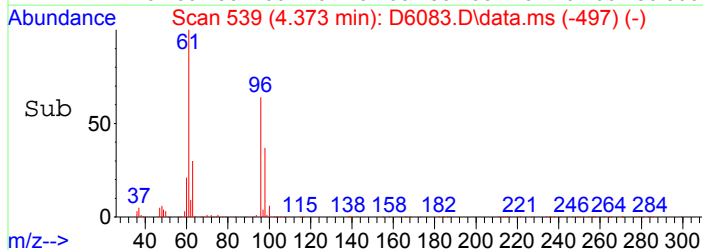
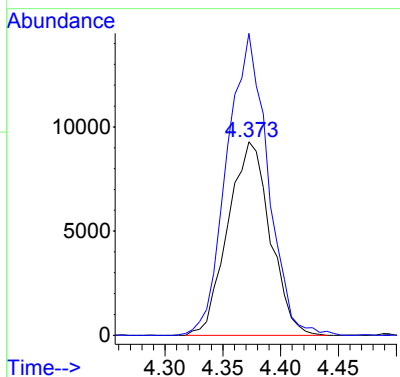
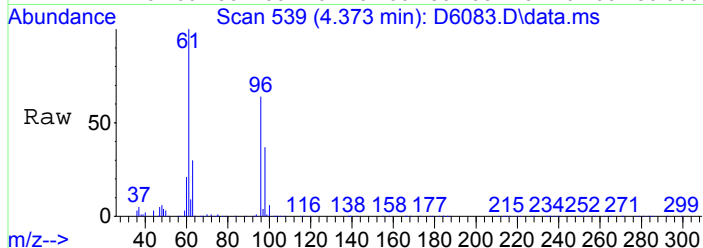
#27
1,1-Dicloroethane
Concen: 2.14 ug/L
RT: 3.531 min Scan# 401
Delta R.T. 0.006 min
Lab File: D6083.D
Acq: 24 Sep 2018 6:44 pm

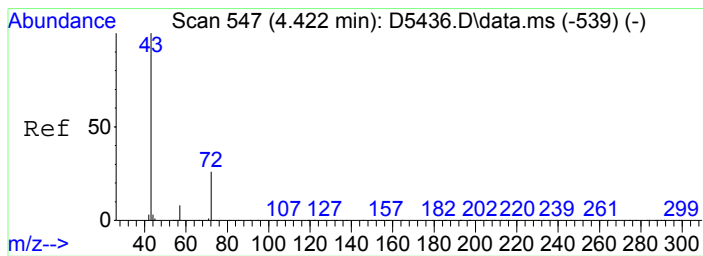
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 63 | 100 | | |
| 65 | 16.2 | 11.4 | 51.4 |
| 83 | 12.7 | 0.0 | 32.6 |



#33
cis-1,2-Dichloroethene
Concen: 10.59 ug/L
RT: 4.373 min Scan# 539
Delta R.T. -0.000 min
Lab File: D6083.D
Acq: 24 Sep 2018 6:44 pm

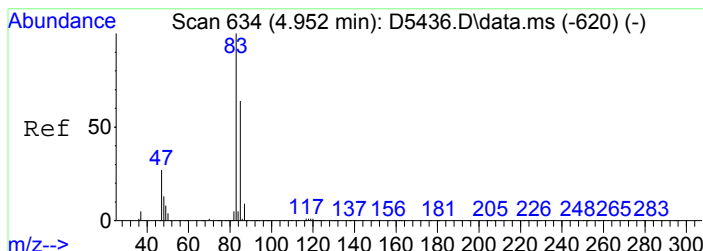
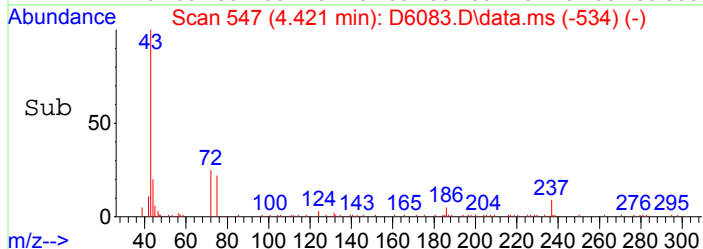
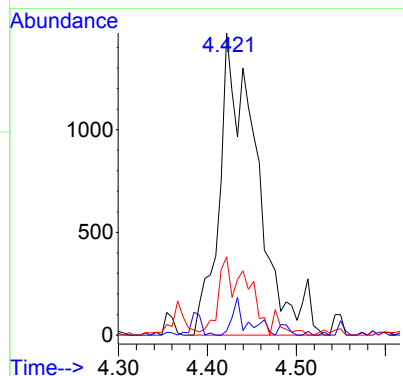
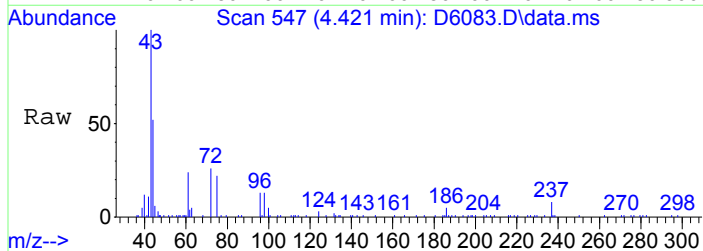
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 96 | 100 | | |
| 61 | 156.0 | 134.7 | 174.7 |





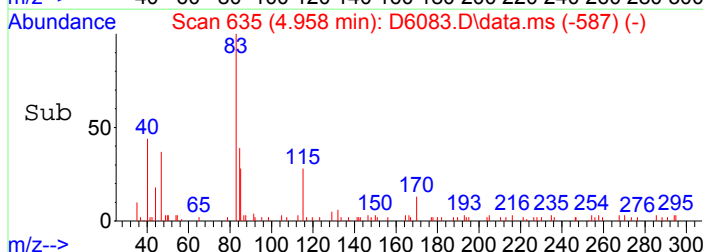
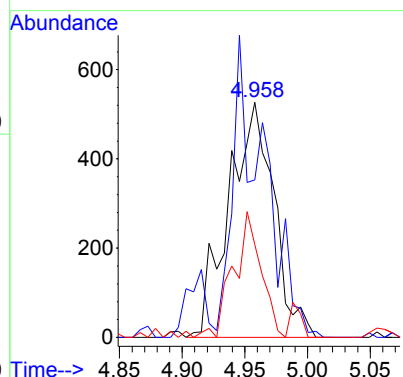
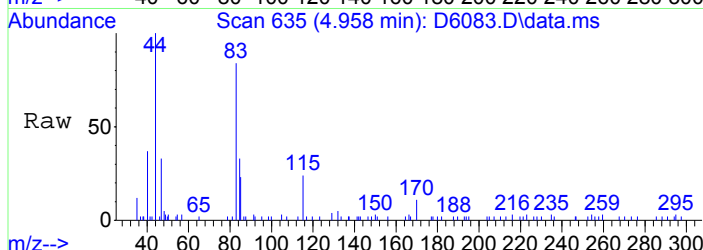
#34
 2-Butanone
 Concen: 2.68 ug/L
 RT: 4.421 min Scan# 547
 Delta R.T. 0.006 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

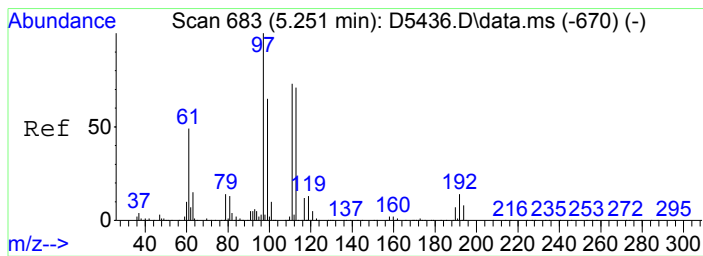
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 4308 | | |
| 57 | 1.4 | 0.0 | 27.8 |
| 72 | 26.0 | 5.1 | 45.1 |



#39
 Chloroform
 Concen: 0.37 ug/L m
 RT: 4.958 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

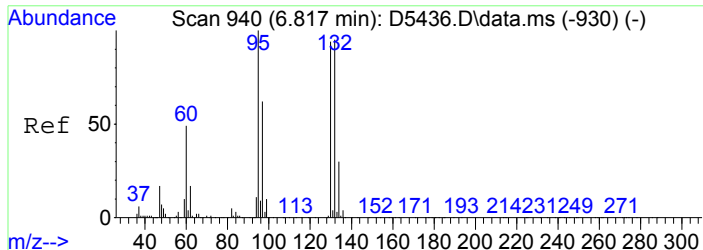
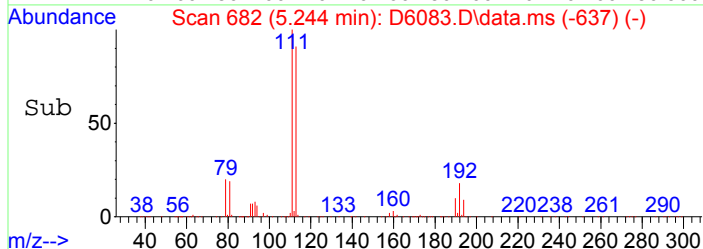
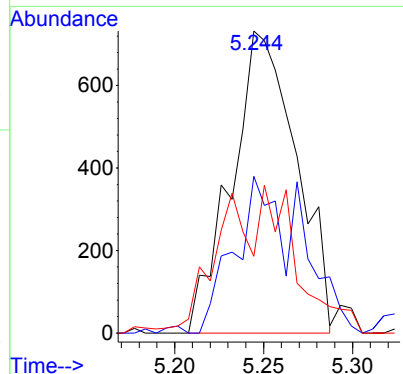
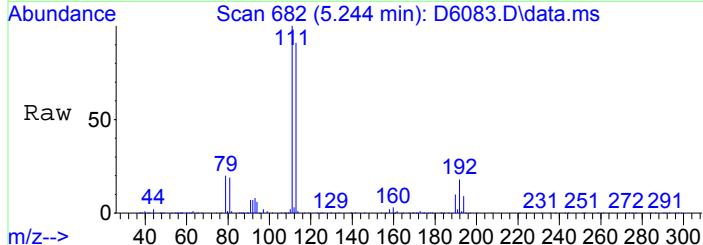
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 83 | 1319 | | |
| 85 | 39.1 | 43.7 | 83.7# |
| 47 | 39.5 | 6.9 | 46.9 |





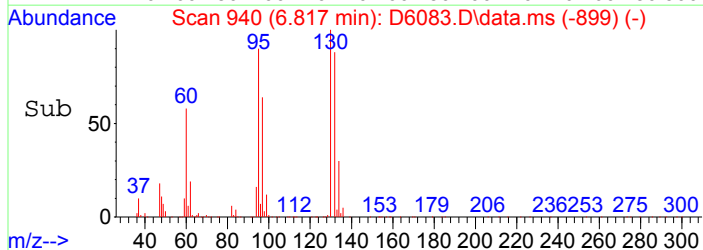
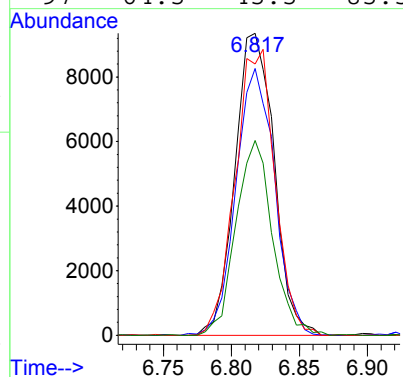
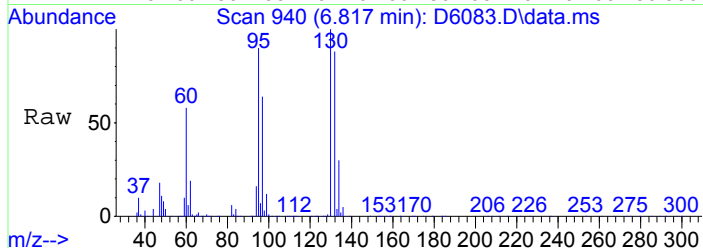
#40
 1,1,1-Trichloroethane
 Concen: 0.62 ug/L
 RT: 5.244 min Scan# 682
 Delta R.T. -0.006 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

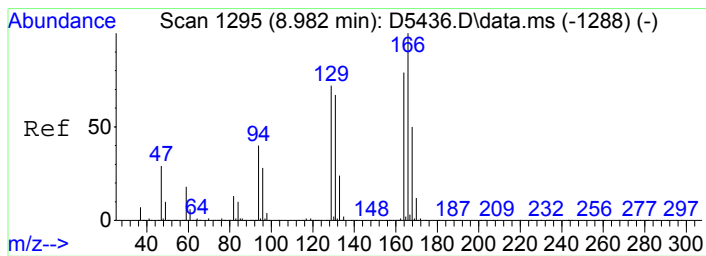
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 97 | 1858 | | |
| 99 | 51.9 | 45.0 | 85.0 |
| 61 | 25.4 | 29.1 | 69.1# |



#53
 Trichloroethene
 Concen: 8.70 ug/L
 RT: 6.817 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: D6083.D
 Acq: 24 Sep 2018 6:44 pm

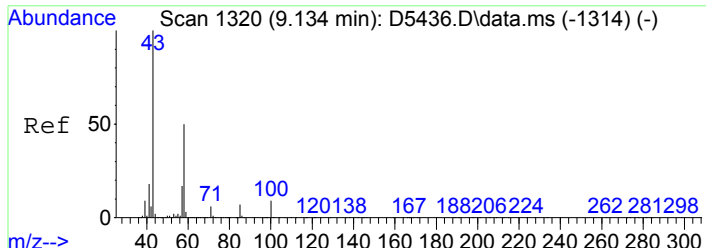
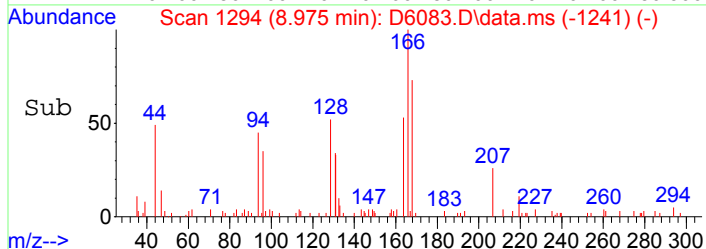
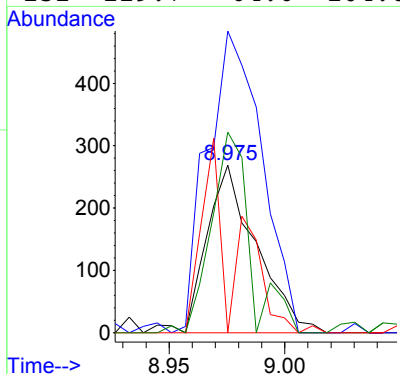
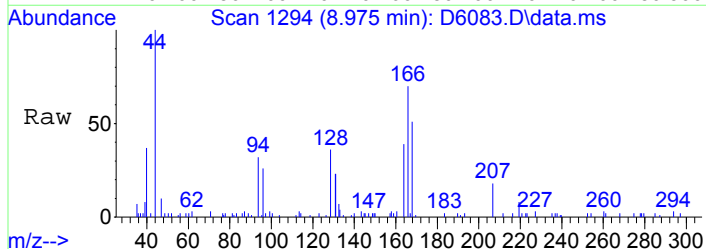
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 130 | 18784 | | |
| 132 | 88.3 | 80.7 | 120.7 |
| 95 | 89.8 | 86.1 | 126.1 |
| 97 | 64.5 | 45.5 | 85.5 |





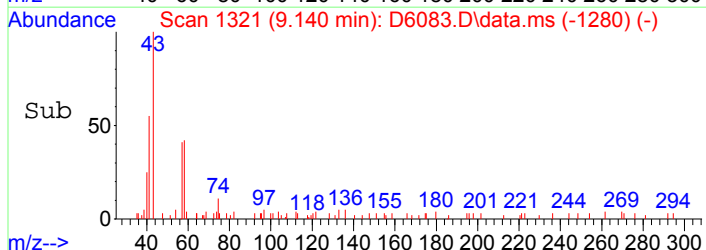
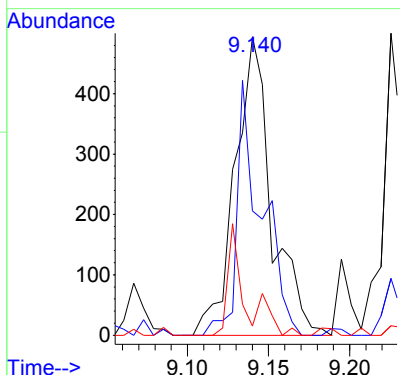
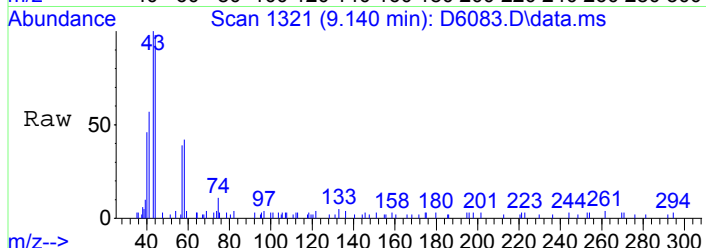
#71
Tetrachloroethene
Concen: 0.24 ug/L
RT: 8.975 min Scan# 1294
Delta R.T. -0.006 min
Lab File: D6083.D
Acq: 24 Sep 2018 6:44 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 164 | 100 | | |
| 166 | 179.9 | 106.8 | 146.8# |
| 129 | 0.0 | 71.9 | 111.9# |
| 131 | 119.7 | 64.6 | 104.6# |



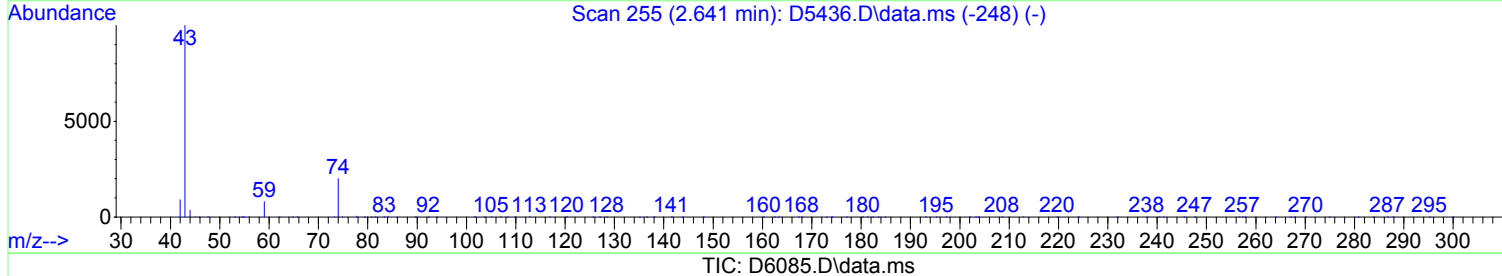
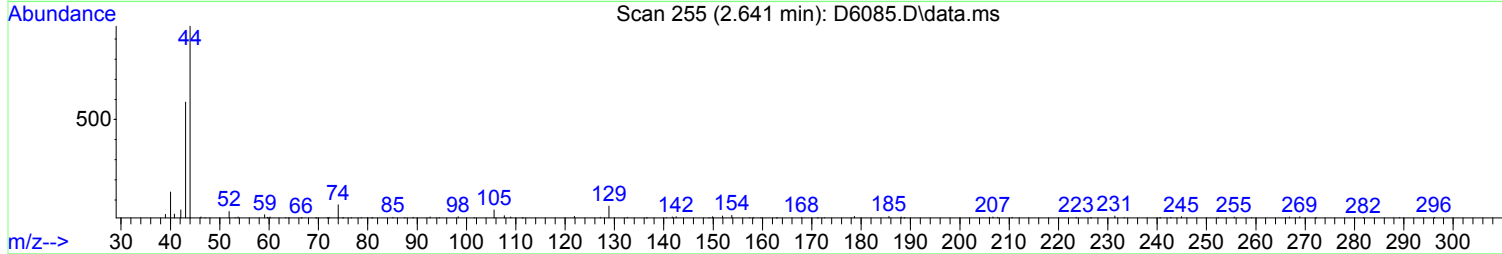
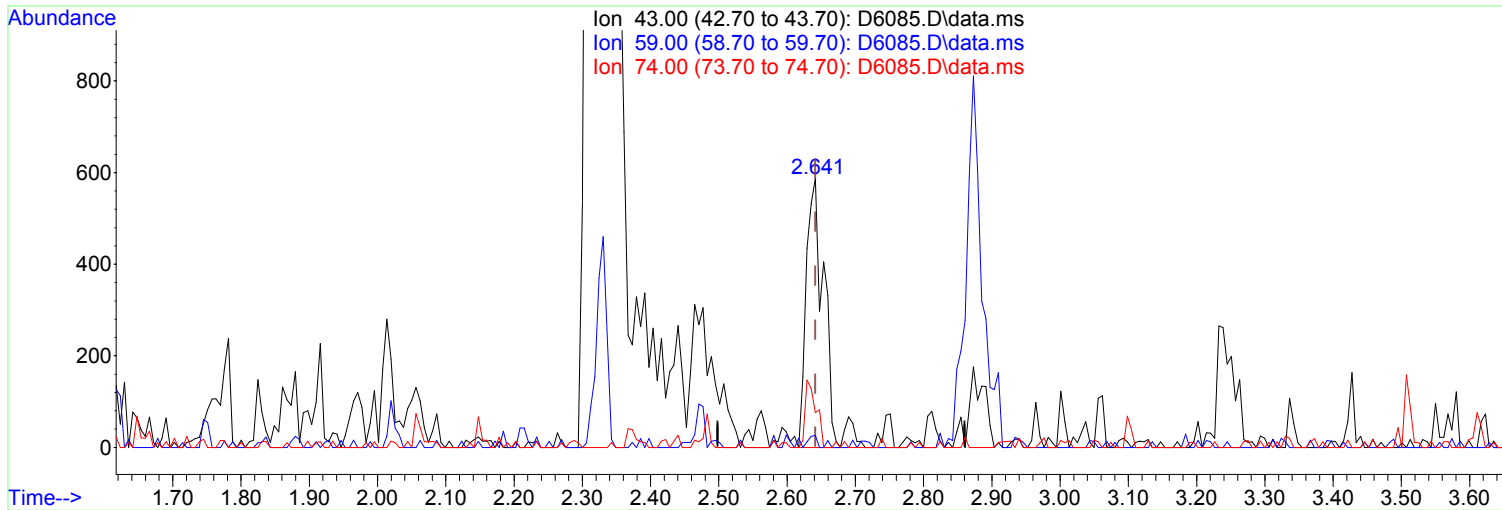
#72
2-Hexanone
Concen: 0.34 ug/L m
RT: 9.140 min Scan# 1321
Delta R.T. 0.006 min
Lab File: D6083.D
Acq: 24 Sep 2018 6:44 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 58 | 41.7 | 30.1 | 70.1 |
| 100 | 3.0 | 0.0 | 28.6 |



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6085.D
Acq On : 24 Sep 2018 7:30 pm
Operator : D.LIPANI
Sample : R1809120-010|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 24 19:45:15 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(21) Methyl Acetate (P)

2.641min (-0.000) 0.42 ug/L m

response 1028

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 59.00 | 8.10 | 4.43 |
| 74.00 | 20.20 | 12.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

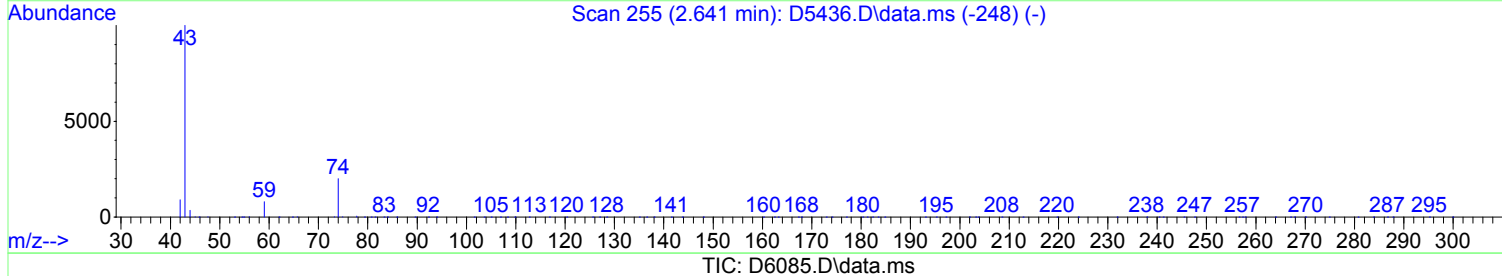
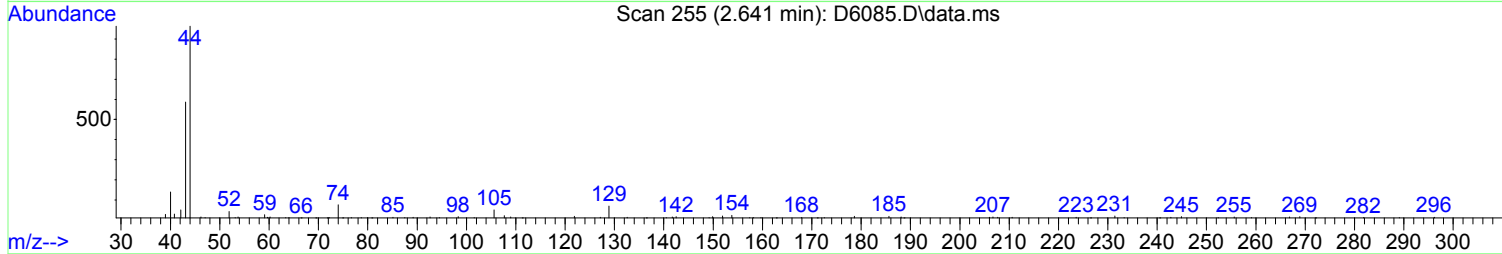
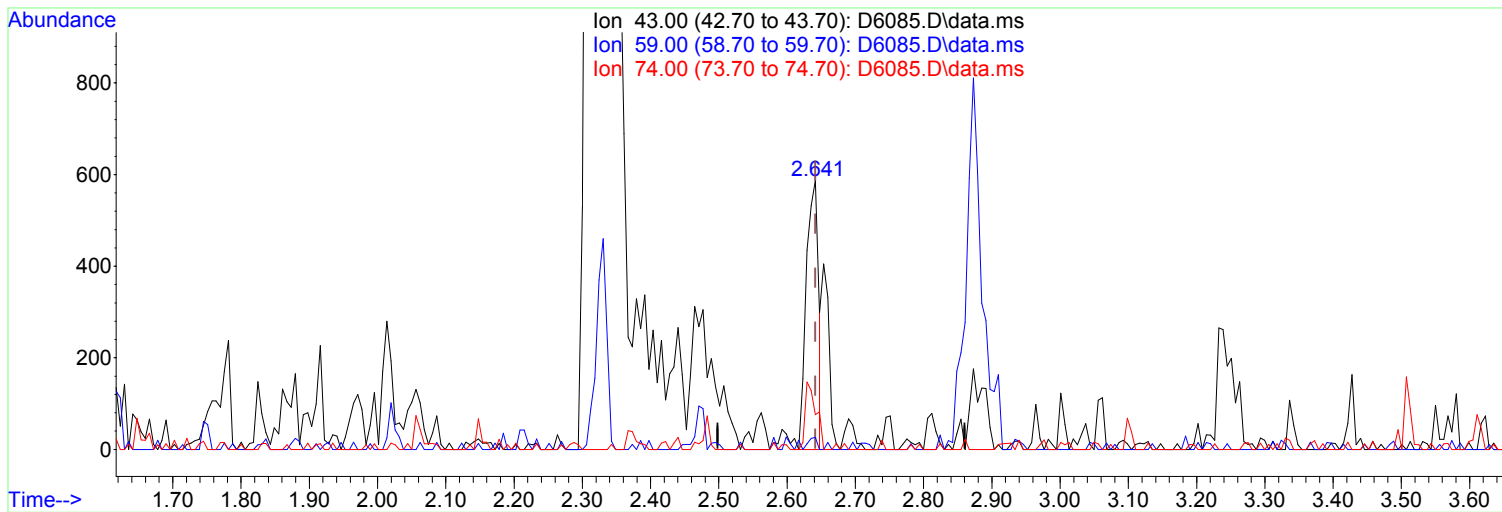
After

Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6085.D
Acq On : 24 Sep 2018 7:30 pm
Operator : D.LIPANI
Sample : R1809120-010|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 24 19:45:15 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(21) Methyl Acetate (P)

2.641min (-0.000) 0.30 ug/L

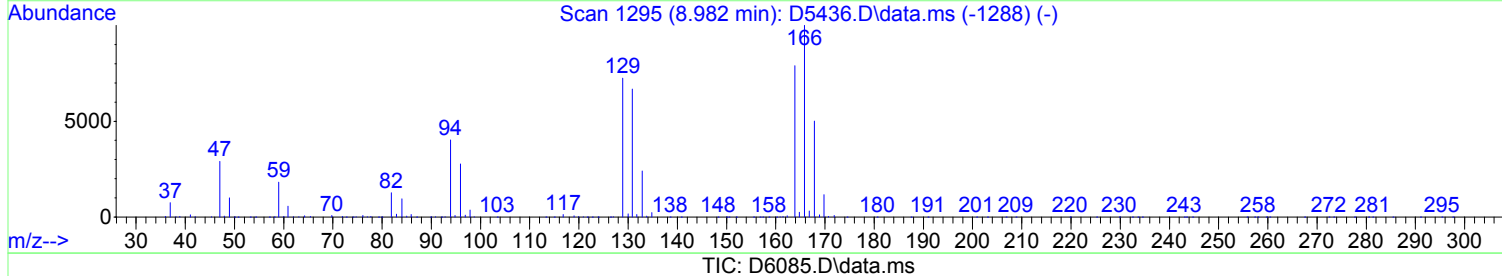
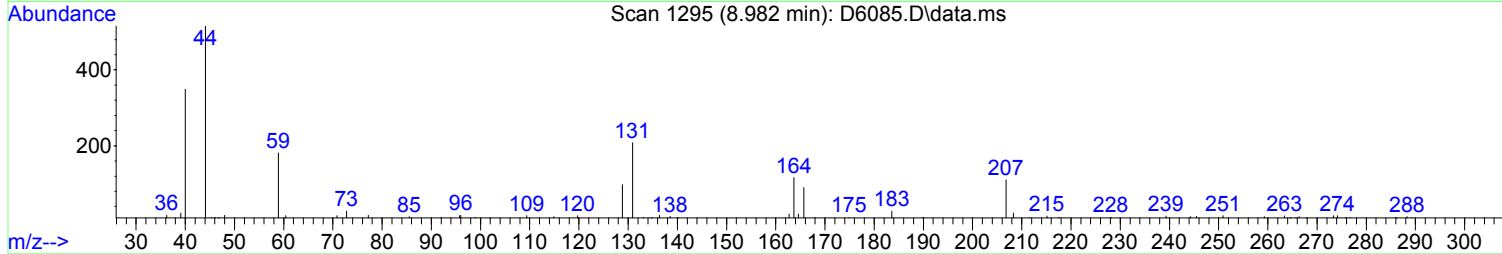
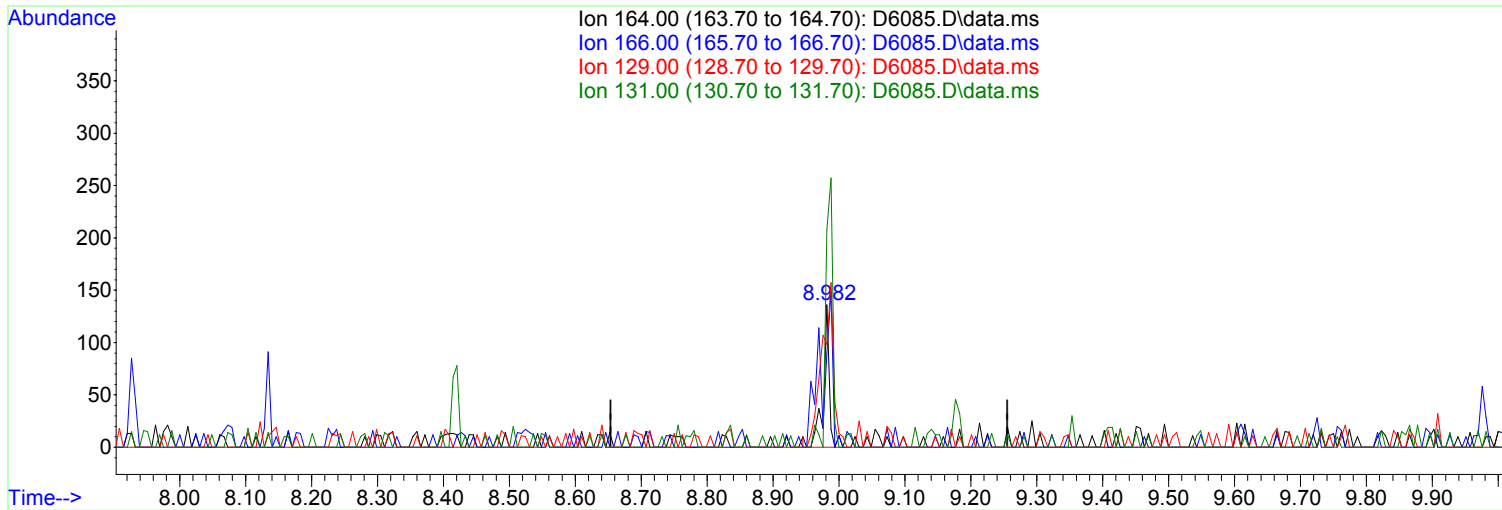
response 733

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 59.00 | 8.10 | 6.64 |
| 74.00 | 20.20 | 12.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6085.D
Acq On : 24 Sep 2018 7:30 pm
Operator : D.LIPANI
Sample : R1809120-010|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 24 19:45:15 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



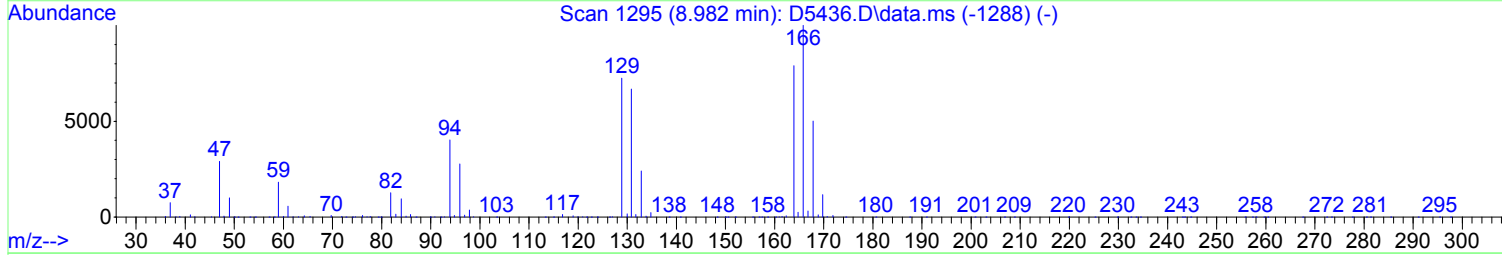
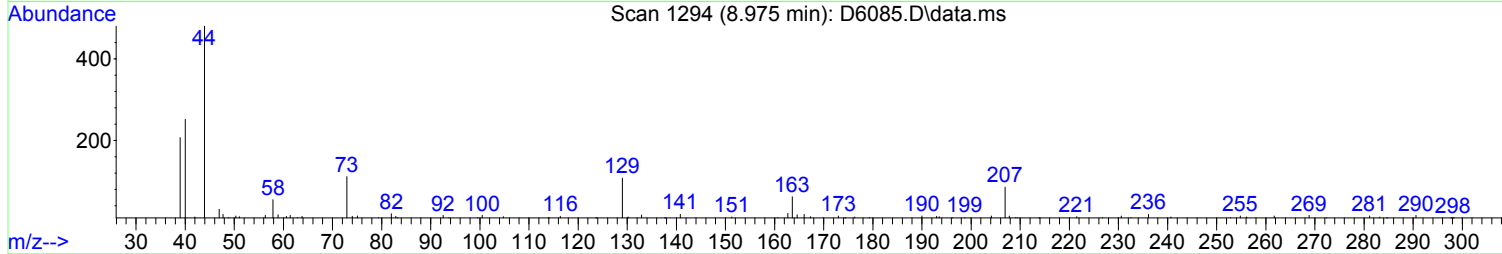
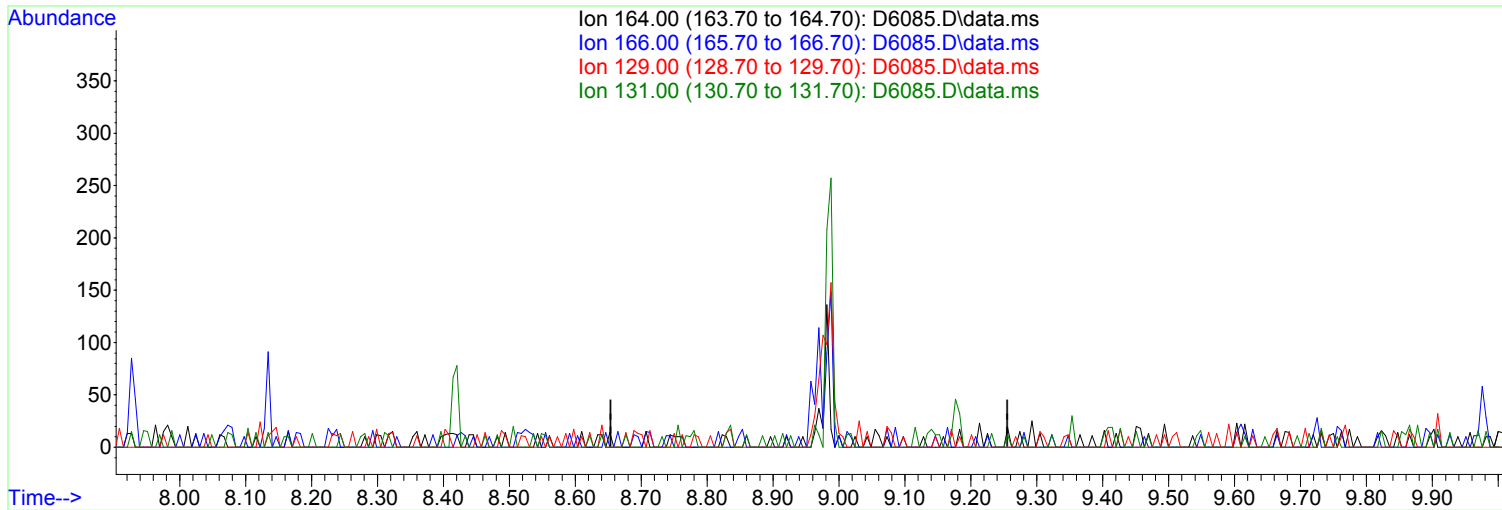
(71) Tetrachloroethene (P)
8.982min (-0.000) 0.05 ug/L m
response 85

Manual Integration:
After
Poor integration.
09/27/18

| Ion | Exp% | Act% |
|--------|--------|---------|
| 164.00 | 100 | 100 |
| 166.00 | 126.80 | 77.59# |
| 129.00 | 91.90 | 84.48 |
| 131.00 | 84.60 | 179.31# |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6085.D
Acq On : 24 Sep 2018 7:30 pm
Operator : D.LIPANI
Sample : R1809120-010|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 24 19:45:15 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(71) Tetrachloroethene (P)
8.982min (-8.982) 0.00 ug/L
response 0

Manual Integration:
Before

| Ion | Exp% | Act% |
|--------|--------|-------|
| 164.00 | 100 | 0.00 |
| 166.00 | 126.80 | 0.00# |
| 129.00 | 91.90 | 0.00# |
| 131.00 | 84.60 | 0.00# |

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6085.D
 Acq On : 24 Sep 2018 7:30 pm
 Operator : D.LIPANI
 Sample : R1809120-010|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 27 15:19:11 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

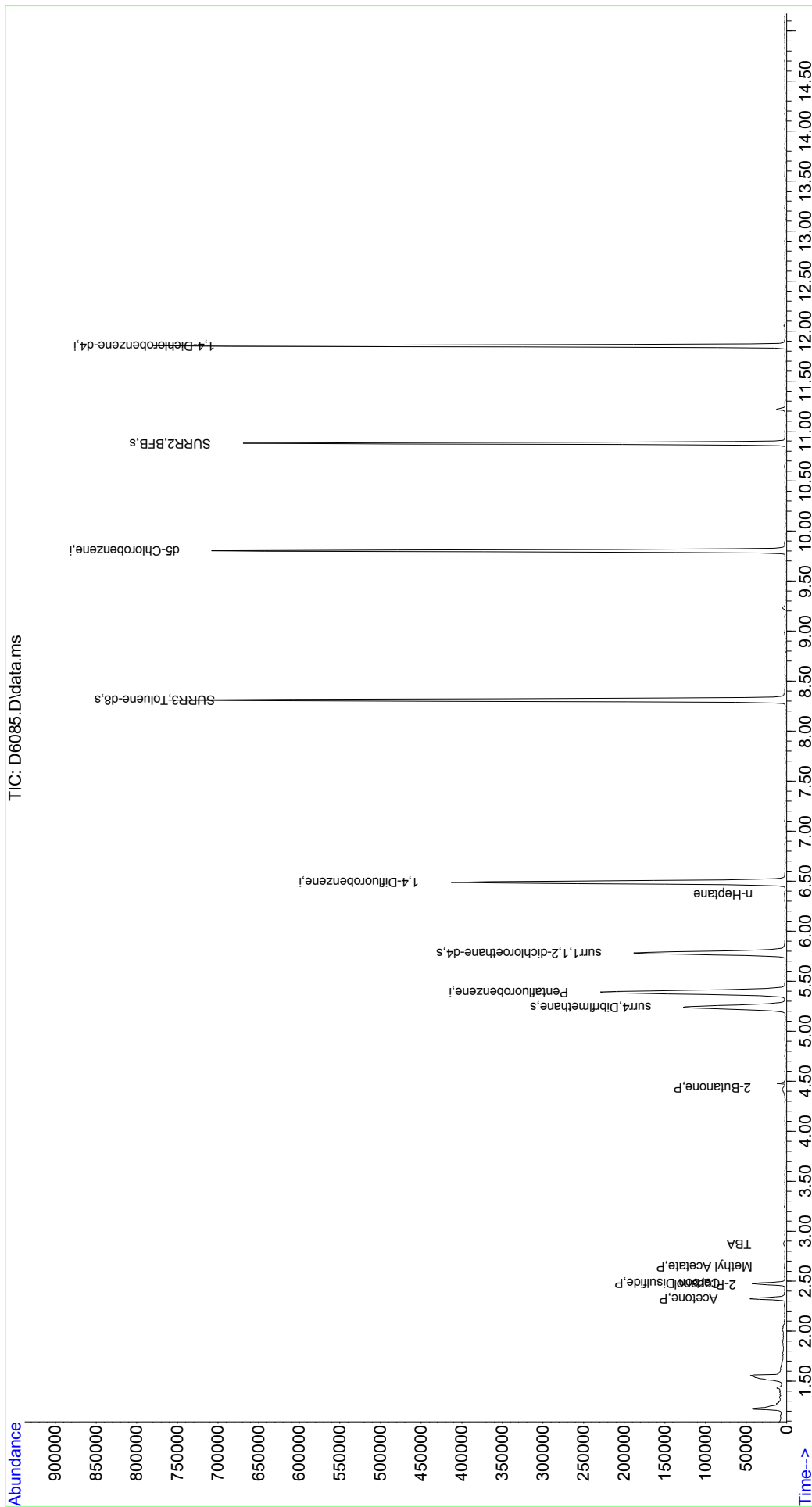
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 207507 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 326046 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 280530 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 140451 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 101205 | 46.06 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 92.12% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 153045 | 52.97 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 105.94% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 430764 | 48.35 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 96.70% | |
| 69) SURR2,BFB | 10.878 | 95 | 150409 | 43.93 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 87.86% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.581 | 94 | 933 | Below Cal | # | 74 |
| 15) Acetone | 2.324 | 43 | 41479 | 33.98 | ug/L | 92 |
| 16) 2-Propanol | 2.465 | 45 | 1063 | 4.50 | ug/L # | 2 |
| 18) Carbon Disulfide | 2.477 | 76 | 40149 | 7.70 | ug/L | 97 |
| 21) Methyl Acetate | 2.641 | 43 | 1028m | 0.42 | ug/L | |
| 23) TBA | 2.873 | 59 | 1234 | 3.49 | ug/L # | 54 |
| 34) 2-Butanone | 4.434 | 43 | 5650 | 3.42 | ug/L | 81 |
| 51) n-Heptane | 6.366 | 43 | 1331 | 0.45 | ug/L # | 29 |

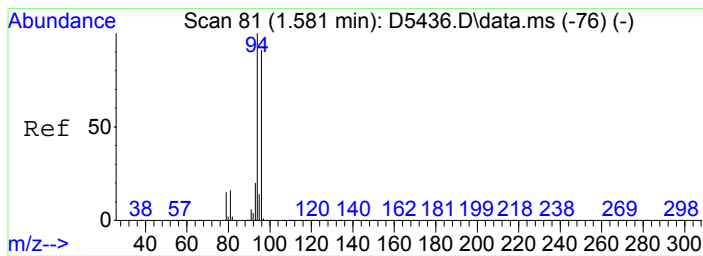
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6085.D
Acq On : 24 Sep 2018 7:30 pm
Operator : D.LIPANI
Sample : R1809120-010|1.0
Misc : Verina 7979 T4
ALS Vial : 29 Sample Multiplier: 1
Inst : MSVOA10

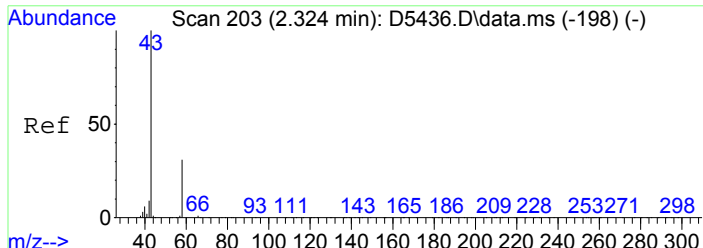
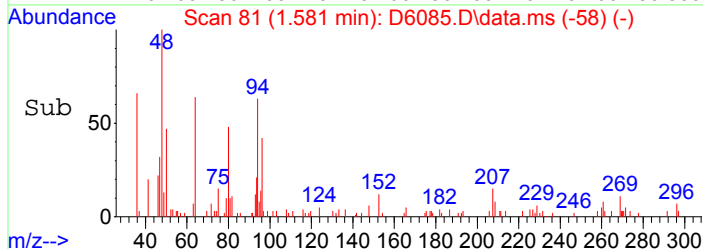
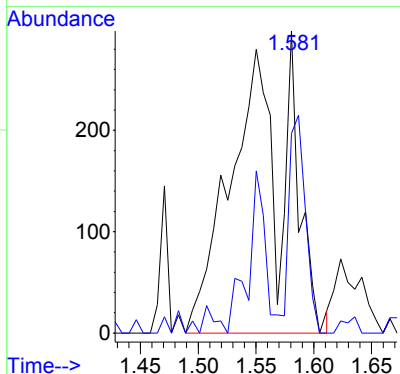
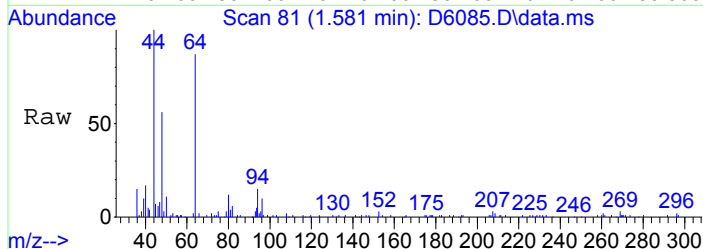
Quant Time: Sep 27 15:19:11 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





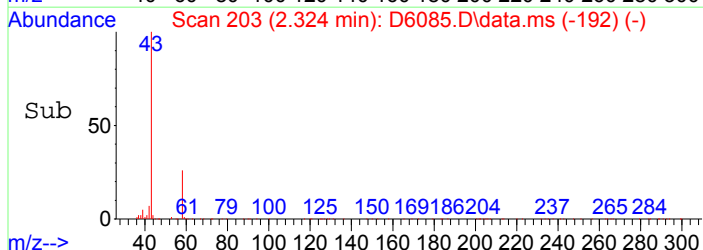
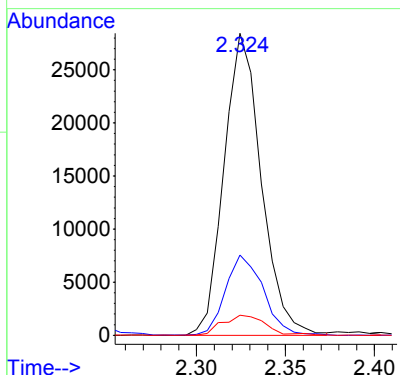
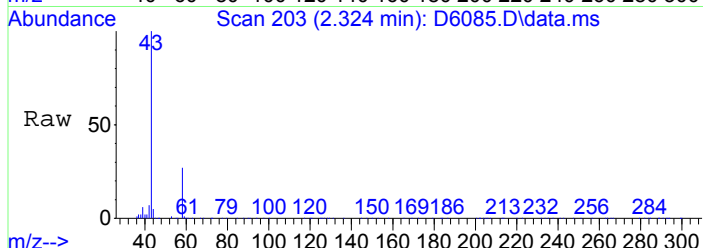
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.581 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: D6085.D
 Acq: 24 Sep 2018 7:30 pm

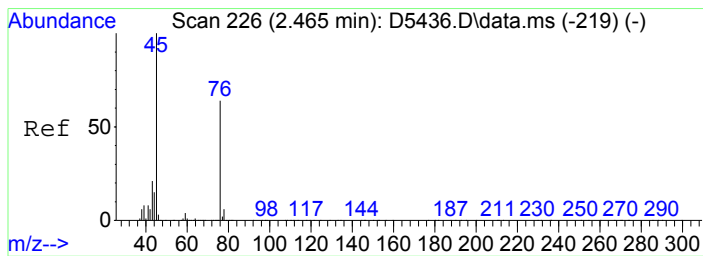
| Tgt Ion | 94 | 96 | Resp | 933 | Lower | Upper |
|-----------|-----|------|------|-----|-------|--------|
| Ion Ratio | 100 | 66.1 | | | 71.1 | 111.1# |



#15
 Acetone
 Concen: 33.98 ug/L
 RT: 2.324 min Scan# 203
 Delta R.T. -0.006 min
 Lab File: D6085.D
 Acq: 24 Sep 2018 7:30 pm

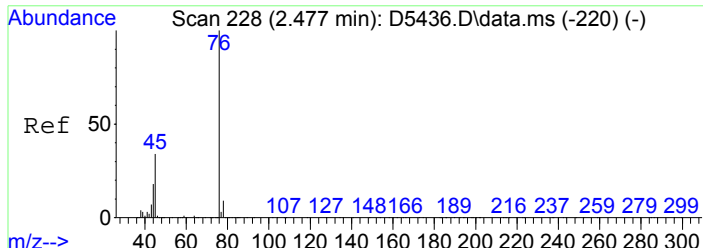
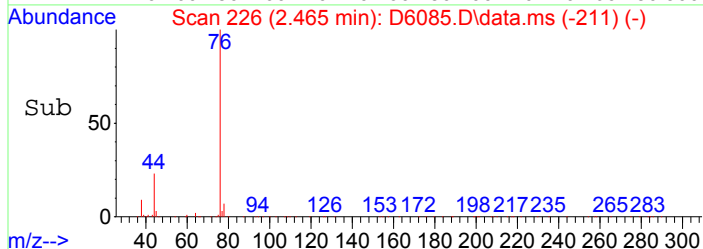
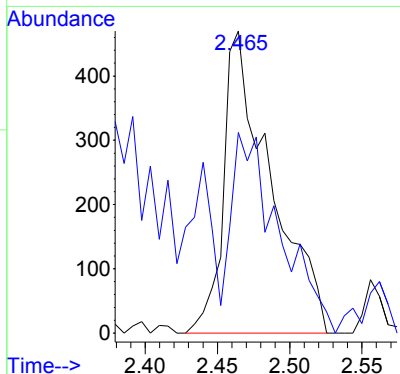
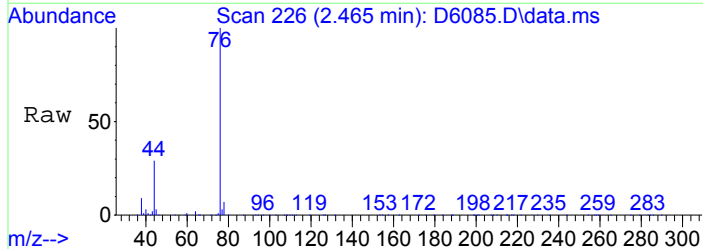
| Tgt Ion | 43 | 58 | 42 | Resp | 41479 | Lower | Upper |
|-----------|-----|------|-----|------|-------|-------|-------|
| Ion Ratio | 100 | 26.6 | 6.7 | | | 11.2 | 51.2 |
| | | | | | | 0.0 | 28.6 |





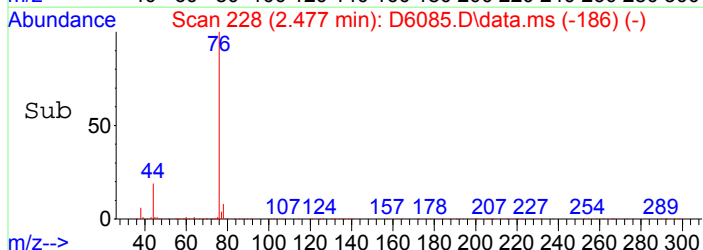
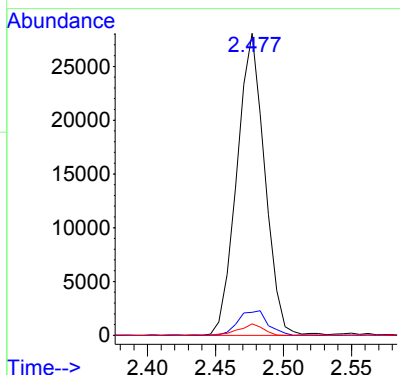
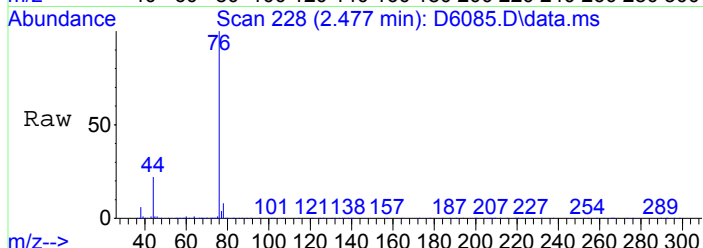
#16
 2-Propanol
 Concen: 4.50 ug/L
 RT: 2.465 min Scan# 226
 Delta R.T. -0.018 min
 Lab File: D6085.D
 Acq: 24 Sep 2018 7:30 pm

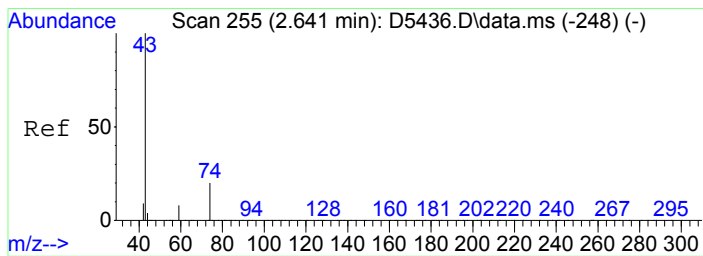
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 45 | 1063 | | |
| 43 | 66.4 | 0.8 | 40.8# |



#18
 Carbon Disulfide
 Concen: 7.70 ug/L
 RT: 2.477 min Scan# 228
 Delta R.T. -0.000 min
 Lab File: D6085.D
 Acq: 24 Sep 2018 7:30 pm

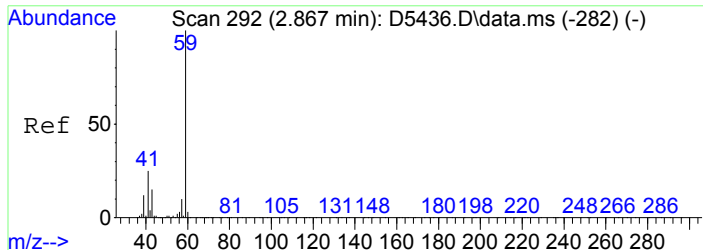
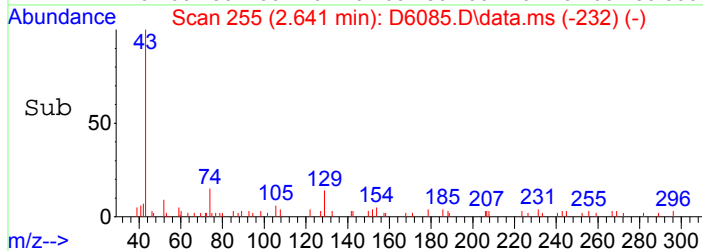
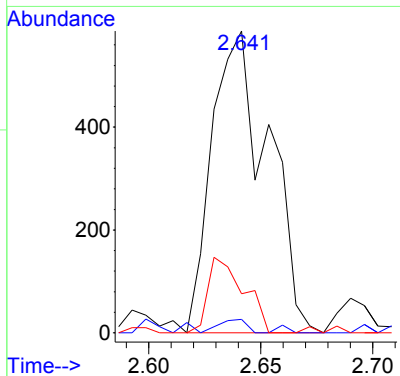
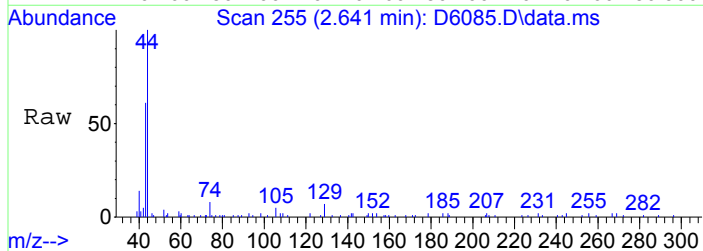
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 76 | 40149 | | |
| 78 | 7.6 | 0.0 | 28.8 |
| 77 | 3.8 | 0.0 | 22.9 |





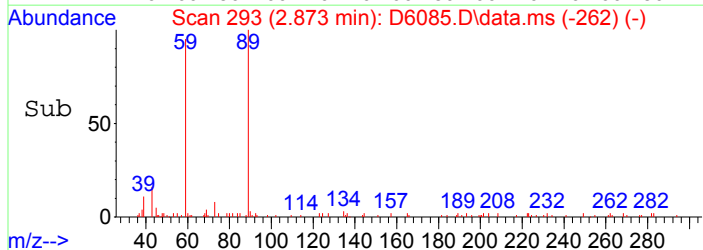
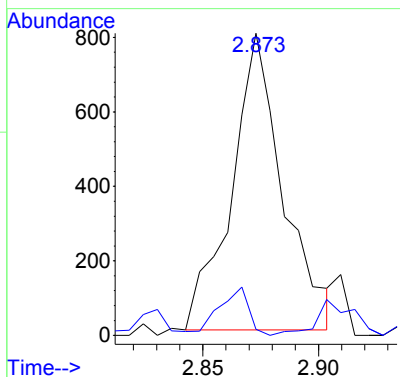
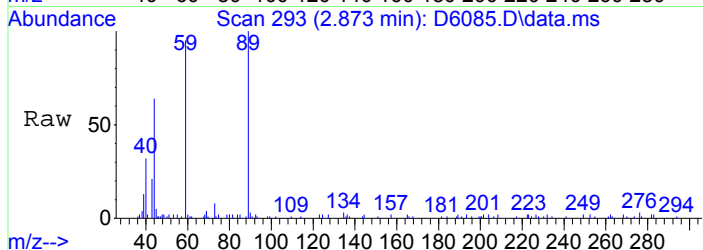
#21
 Methyl Acetate
 Concen: 0.42 ug/L m
 RT: 2.641 min Scan# 255
 Delta R.T. -0.000 min
 Lab File: D6085.D
 Acq: 24 Sep 2018 7:30 pm

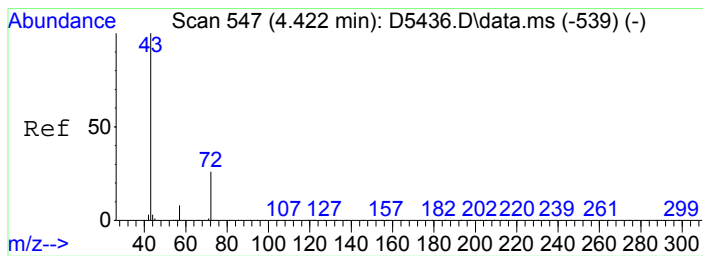
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 1028 | | |
| 59 | 4.4 | 0.0 | 28.1 |
| 74 | 12.9 | 0.2 | 40.2 |



#23
 TBA
 Concen: 3.49 ug/L
 RT: 2.873 min Scan# 293
 Delta R.T. -0.000 min
 Lab File: D6085.D
 Acq: 24 Sep 2018 7:30 pm

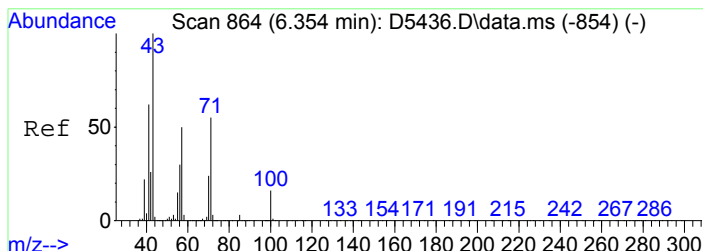
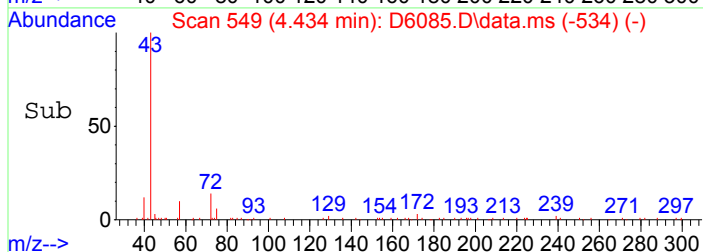
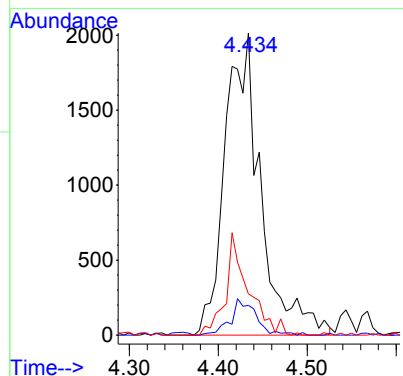
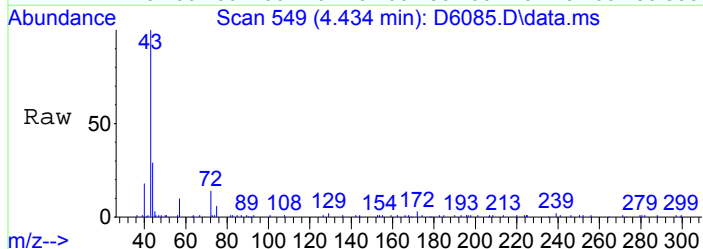
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 1234 | | |
| 41 | 2.0 | 4.8 | 44.8# |





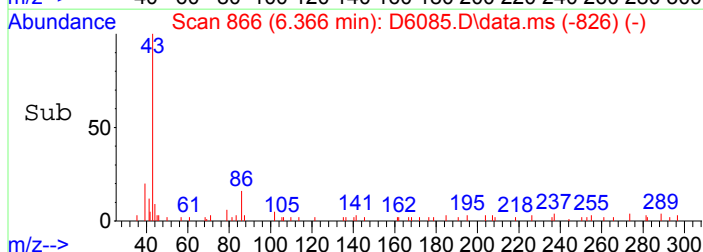
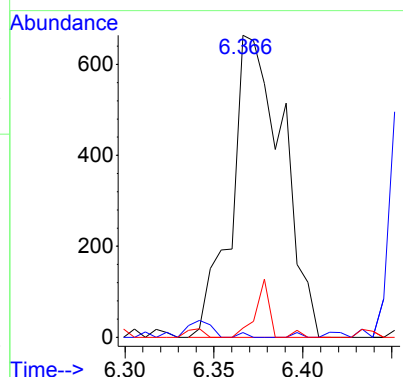
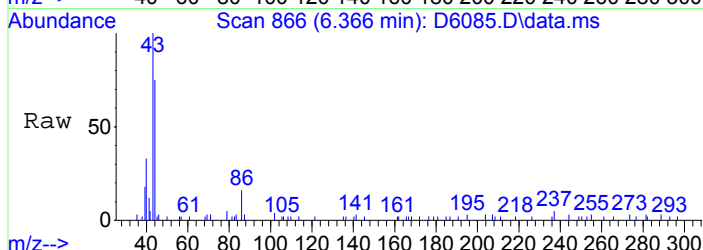
#34
2-Butanone
Concen: 3.42 ug/L
RT: 4.434 min Scan# 549
Delta R.T. 0.018 min
Lab File: D6085.D
Acq: 24 Sep 2018 7:30 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 57 | 9.9 | 0.0 | 27.8 |
| 72 | 13.7 | 5.1 | 45.1 |



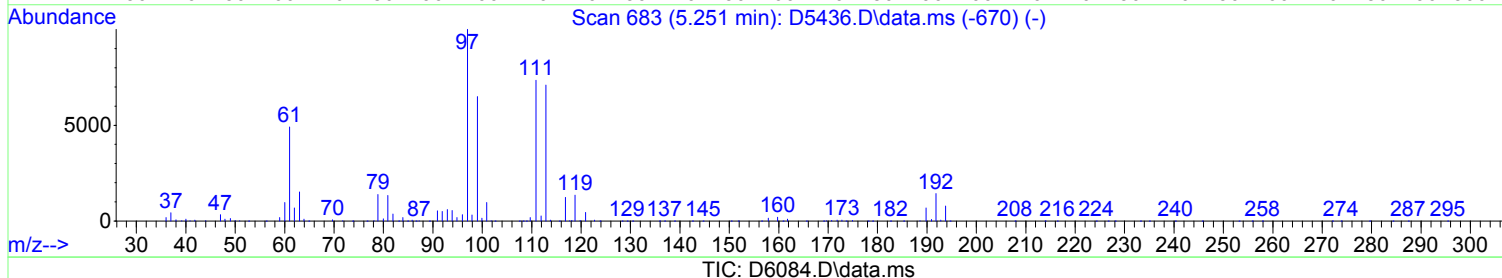
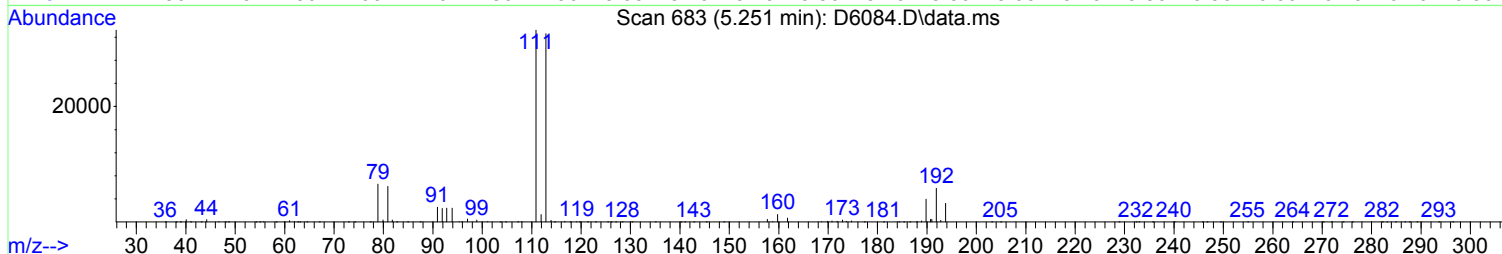
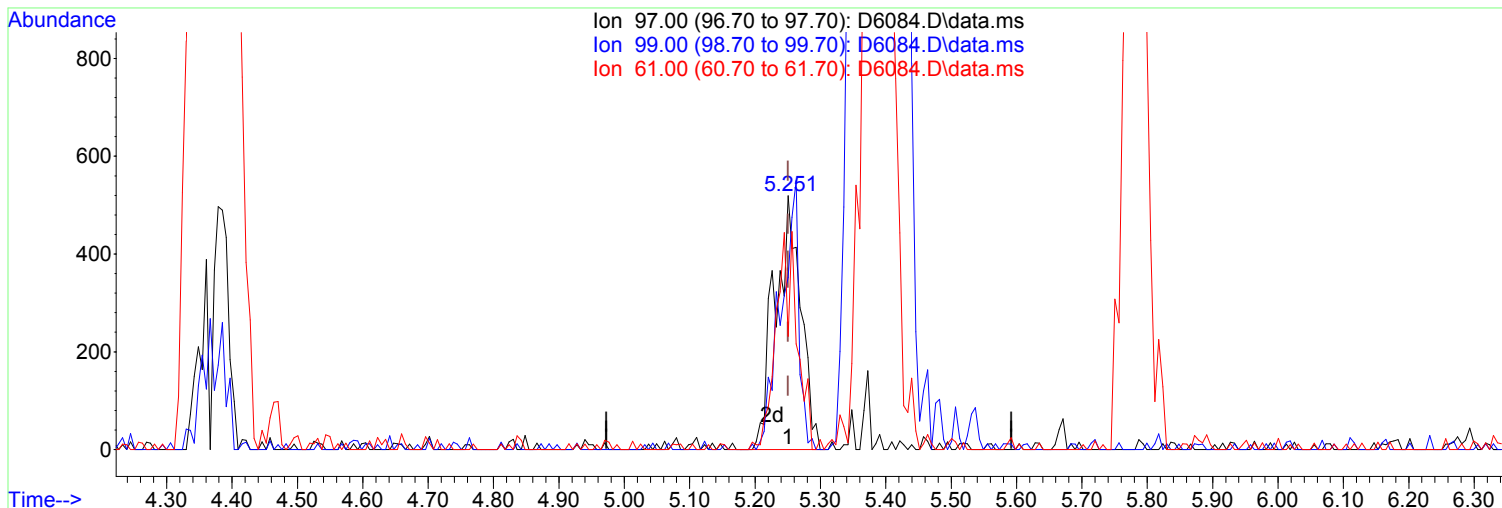
#51
n-Heptane
Concen: 0.45 ug/L
RT: 6.366 min Scan# 866
Delta R.T. 0.006 min
Lab File: D6085.D
Acq: 24 Sep 2018 7:30 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 100 | | |
| 57 | 1.5 | 30.0 | 70.0# |
| 71 | 3.0 | 35.1 | 75.1# |



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6084.D
Acq On : 24 Sep 2018 7:08 pm
Operator : D.LIPANI
Sample : R1809120-012|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 19:23:13 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(40) 1,1,1-Trichloroethane (P)

5.251min (-0.000) 0.51 ug/L m
response 1426

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 65.00 | 67.82 |
| 61.00 | 49.10 | 44.70 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

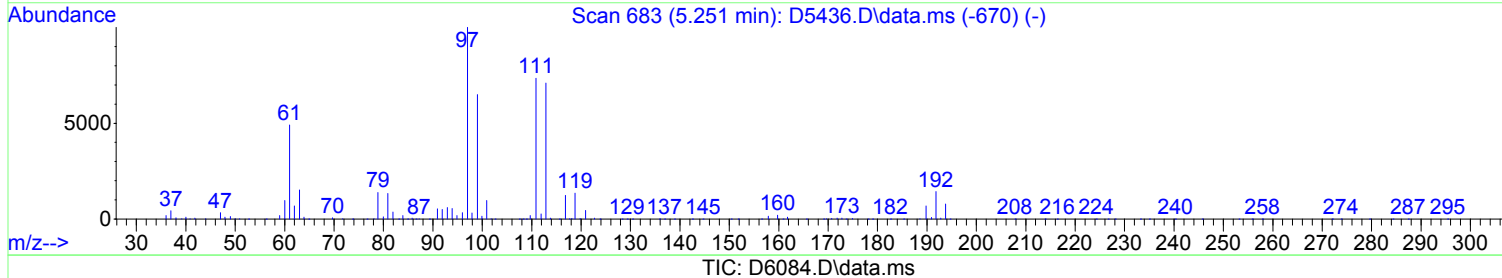
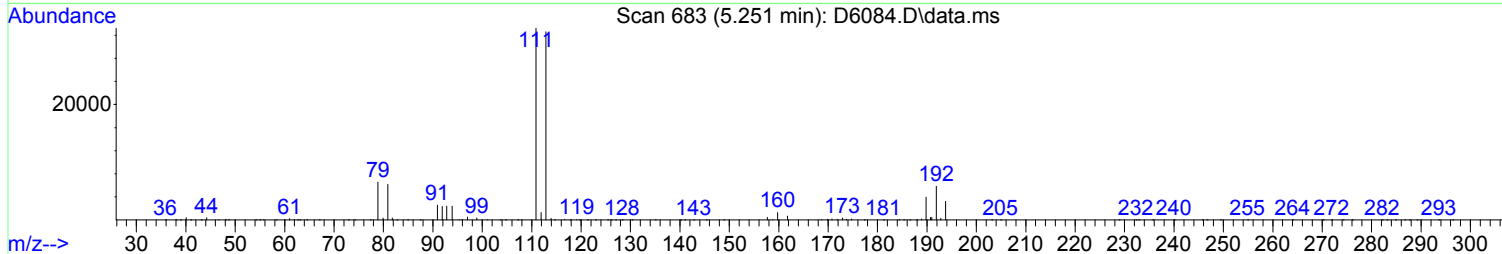
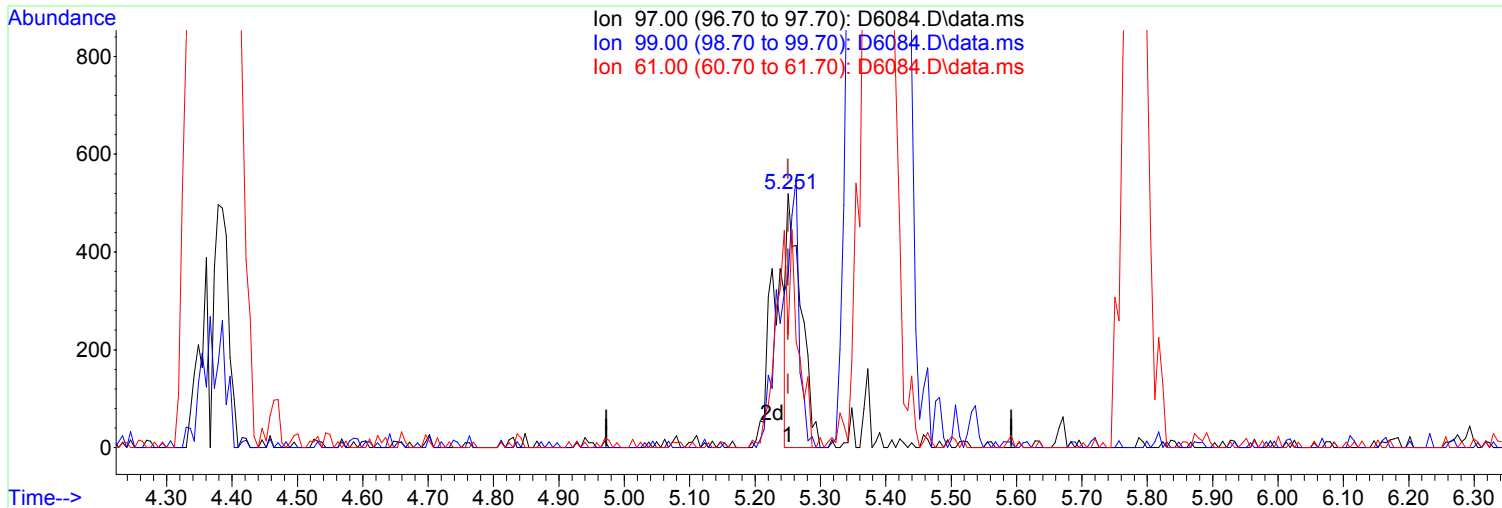
After

Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6084.D
Acq On : 24 Sep 2018 7:08 pm
Operator : D.LIPANI
Sample : R1809120-012|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 24 19:23:13 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(40) 1,1,1-Trichloroethane (P)

Manual Integration:

5.251min (-0.000) 0.28 ug/L

Before

response 794

| Ion | Exp% | Act% |
|-------|-------|-------|
| 97.00 | 100 | 100 |
| 99.00 | 65.00 | 67.82 |
| 61.00 | 49.10 | 44.70 |
| 0.00 | 0.00 | 0.00 |

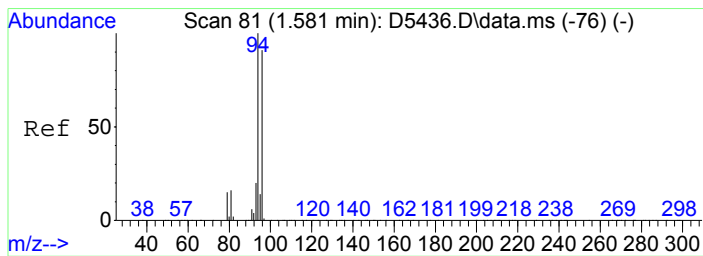
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6084.D
 Acq On : 24 Sep 2018 7:08 pm
 Operator : D.LIPANI
 Sample : R1809120-012|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 27 15:15:56 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

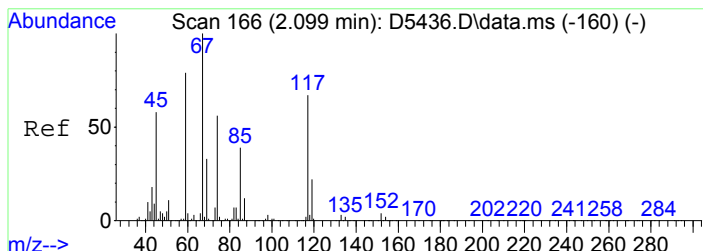
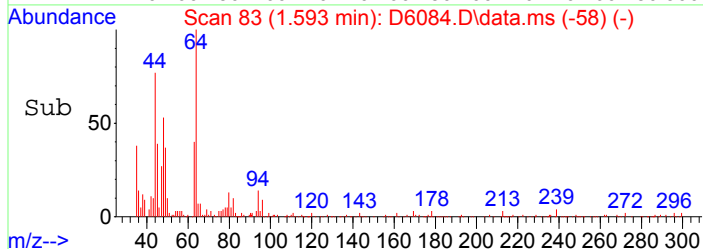
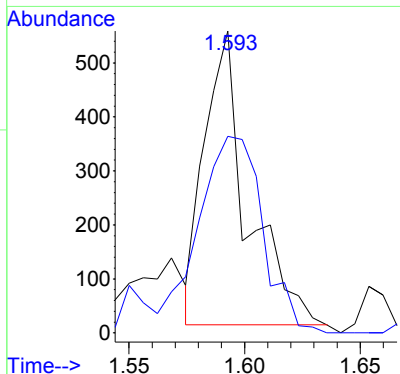
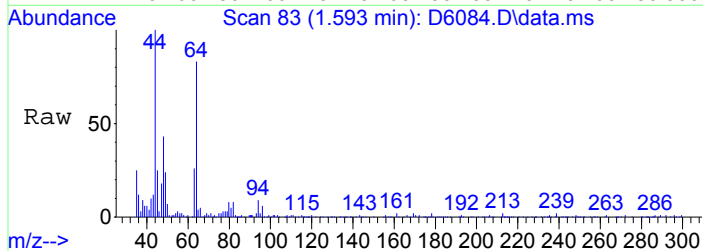
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 188218 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 294696 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 259037 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 128777 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 101472 | 51.10 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 102.20% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 147446 | 56.46 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 112.92% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 411459 | 51.10 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 102.20% | |
| 69) SURR2,BFB | 10.878 | 95 | 148070 | 47.85 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 95.70% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.593 | 94 | 702 | Below Cal | # | 73 |
| 10) Freon 123a | 2.093 | 67 | 1477 | 0.62 | ug/L # | 47 |
| 14) Freon 113 | 2.294 | 101 | 849 | 0.49 | ug/L | 77 |
| 15) Acetone | 2.330 | 43 | 22769 | 20.56 | ug/L | 92 |
| 23) TBA | 2.867 | 59 | 1365 | 4.26 | ug/L # | 58 |
| 27) 1,1-Diclcethane | 3.525 | 63 | 7305 | 2.01 | ug/L | 84 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 31201 | 15.09 | ug/L | 93 |
| 34) 2-Butanone | 4.421 | 43 | 4847 | 3.24 | ug/L | 95 |
| 39) Chloroform | 4.946 | 83 | 1181 | 0.35 | ug/L | 73 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 1426m | 0.51 | ug/L | |
| 53) Trichloroethene | 6.817 | 130 | 19894 | 9.70 | ug/L | 93 |
| 72) 2-Hexanone | 9.134 | 43 | 840 | 0.38 | ug/L # | 47 |

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



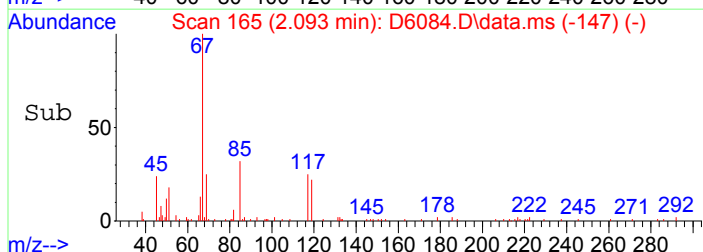
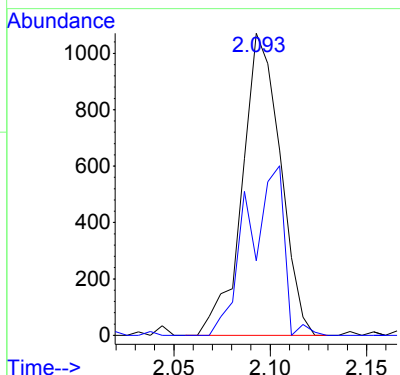
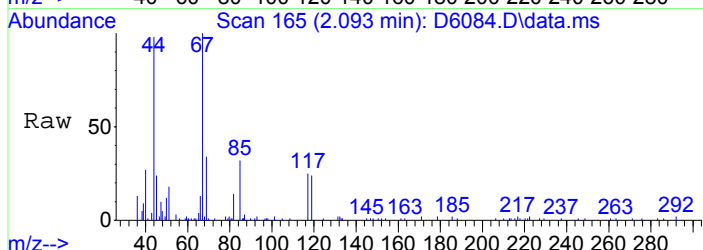
#5
Bromomethane
Concen: Below Cal
RT: 1.593 min Scan# 83
Delta R.T. 0.012 min
Lab File: D6084.D
Acq: 24 Sep 2018 7:08 pm

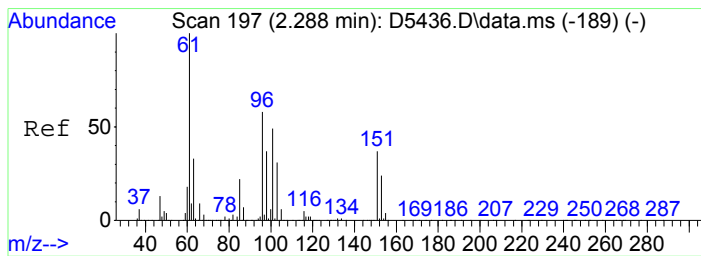
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 94 | 100 | | |
| 96 | 65.1 | 71.1 | 111.1# |



#10
Freon 123a
Concen: 0.62 ug/L
RT: 2.093 min Scan# 165
Delta R.T. -0.006 min
Lab File: D6084.D
Acq: 24 Sep 2018 7:08 pm

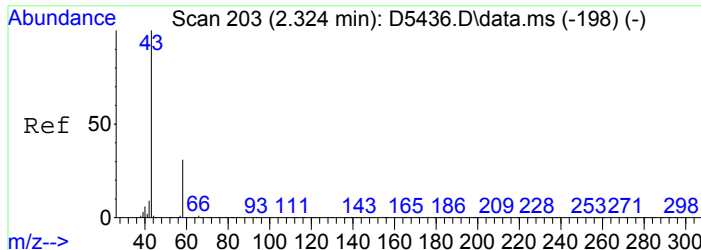
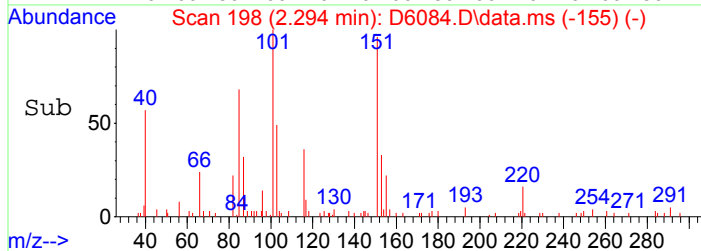
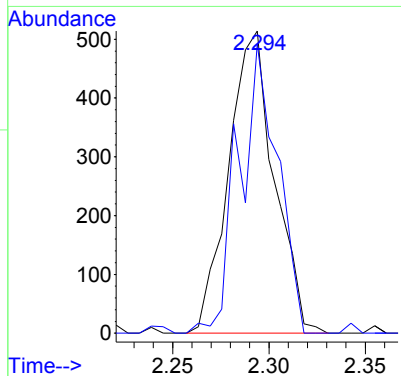
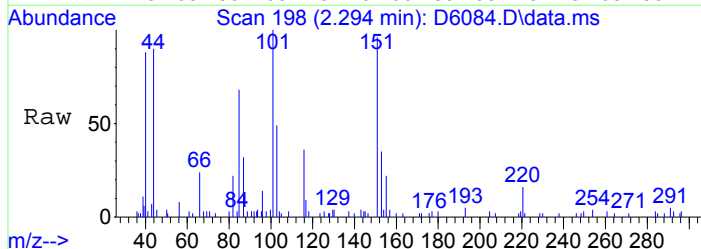
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 67 | 100 | | |
| 117 | 24.6 | 47.5 | 87.5# |





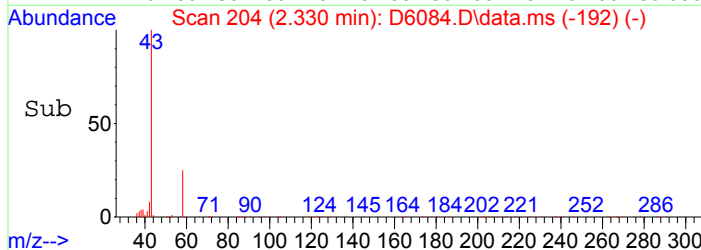
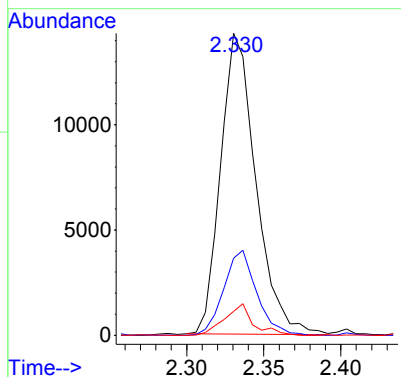
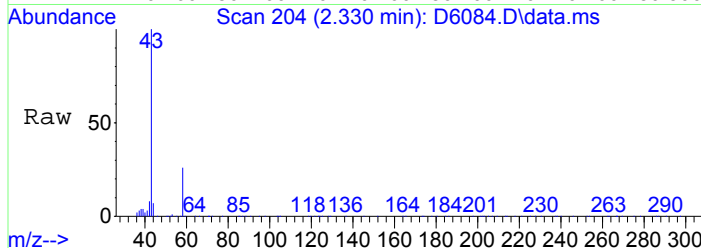
#14
 Freon 113
 Concen: 0.49 ug/L
 RT: 2.294 min Scan# 198
 Delta R.T. 0.006 min
 Lab File: D6084.D
 Acq: 24 Sep 2018 7:08 pm

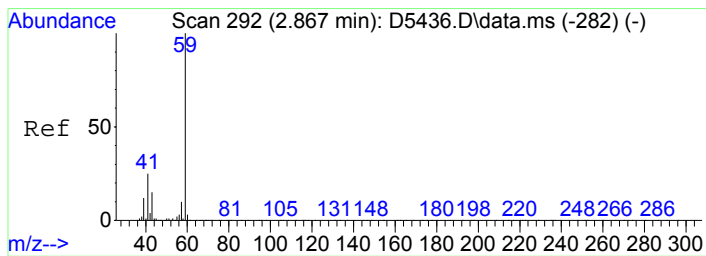
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 101 | 849 | | |
| 101 | 100 | | |
| 151 | 95.7 | 56.1 | 96.1 |



#15
 Acetone
 Concen: 20.56 ug/L
 RT: 2.330 min Scan# 204
 Delta R.T. -0.000 min
 Lab File: D6084.D
 Acq: 24 Sep 2018 7:08 pm

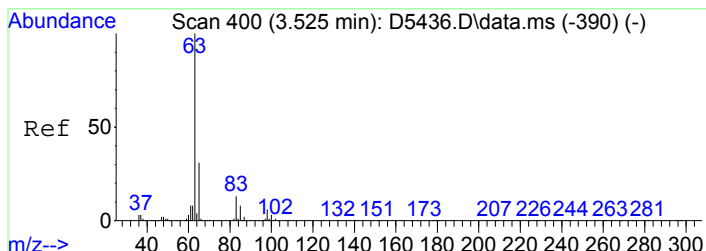
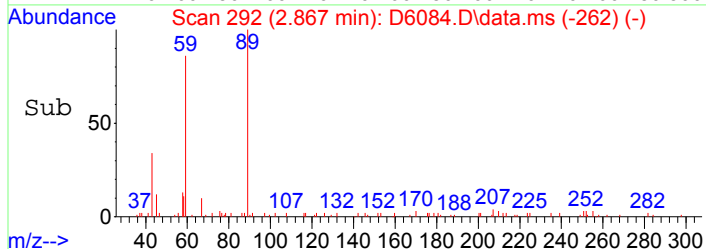
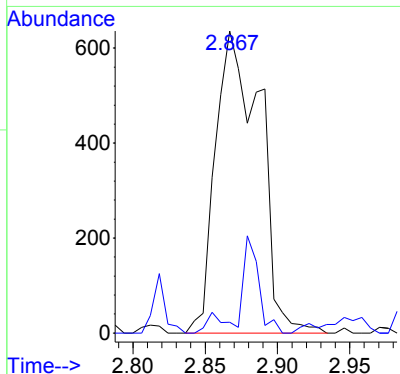
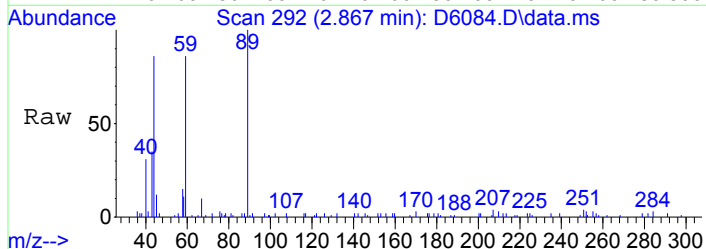
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 43 | 22769 | | |
| 43 | 100 | | |
| 58 | 25.5 | 11.2 | 51.2 |
| 42 | 7.9 | 0.0 | 28.6 |





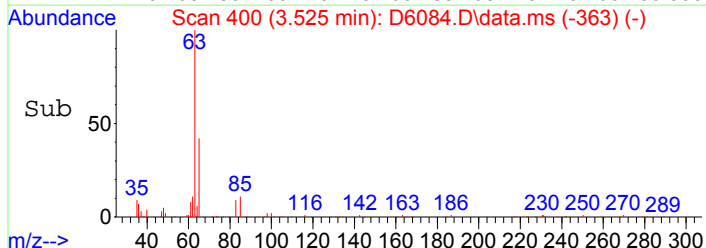
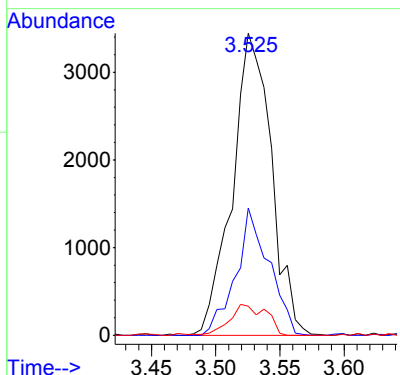
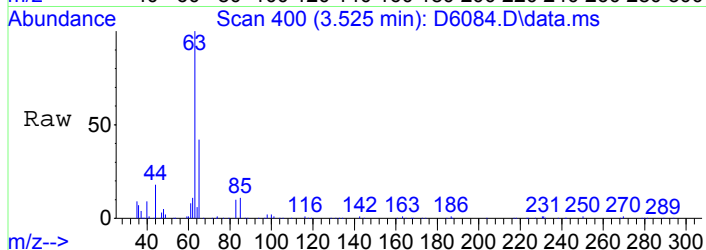
#23
TBA
Concen: 4.26 ug/L
RT: 2.867 min Scan# 292
Delta R.T. -0.006 min
Lab File: D6084.D
Acq: 24 Sep 2018 7:08 pm

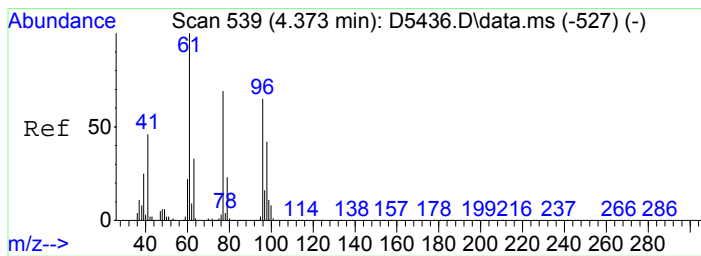
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 59 | 100 | | |
| 41 | 3.6 | 4.8 | 44.8# |



#27
1,1-Dicethane
Concen: 2.01 ug/L
RT: 3.525 min Scan# 400
Delta R.T. -0.000 min
Lab File: D6084.D
Acq: 24 Sep 2018 7:08 pm

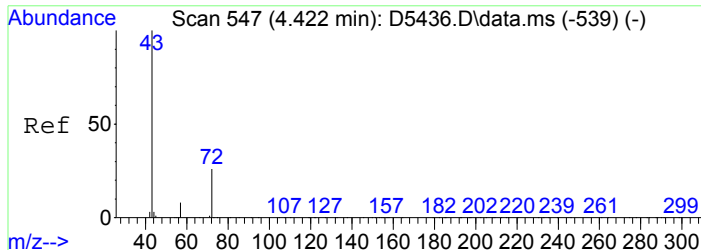
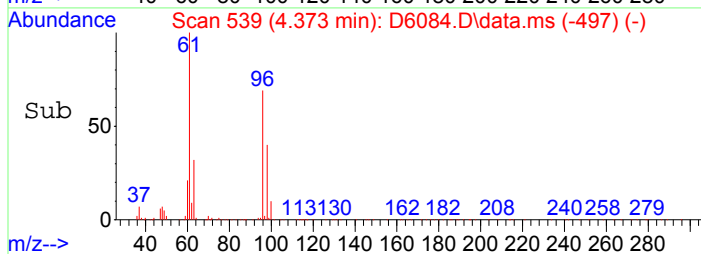
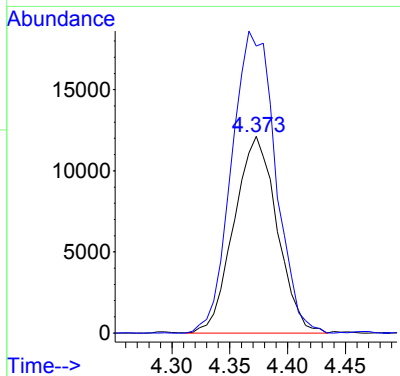
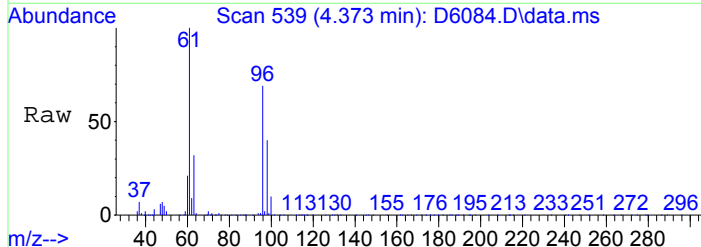
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 63 | 100 | | |
| 65 | 42.1 | 11.4 | 51.4 |
| 83 | 9.7 | 0.0 | 32.6 |





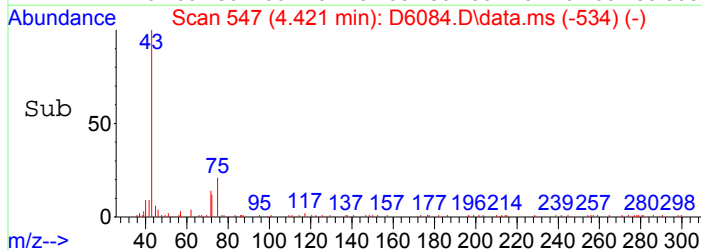
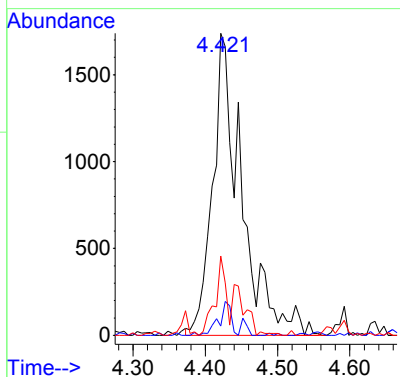
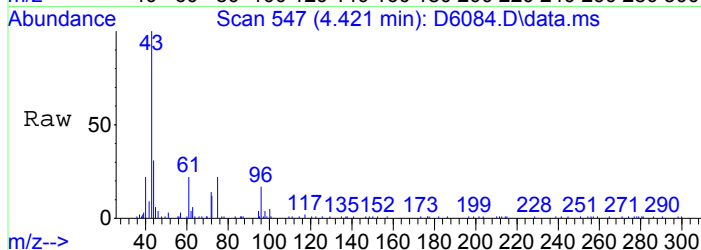
#33
 cis-1,2-Dichloroethene
 Concen: 15.09 ug/L
 RT: 4.373 min Scan# 539
 Delta R.T. -0.000 min
 Lab File: D6084.D
 Acq: 24 Sep 2018 7:08 pm

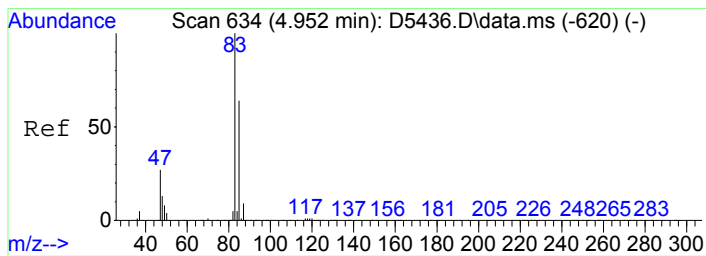
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 96 | 31201 | | |
| 96 | 100 | | |
| 61 | 146.0 | 134.7 | 174.7 |



#34
 2-Butanone
 Concen: 3.24 ug/L
 RT: 4.421 min Scan# 547
 Delta R.T. 0.006 min
 Lab File: D6084.D
 Acq: 24 Sep 2018 7:08 pm

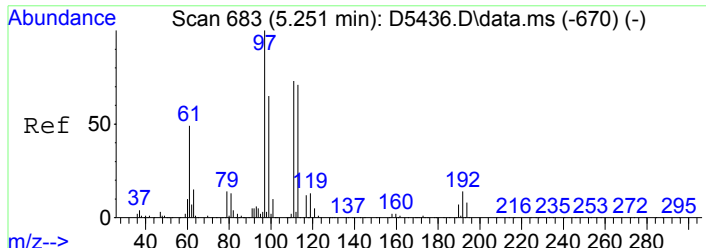
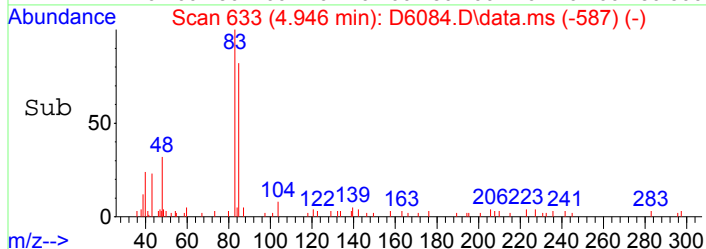
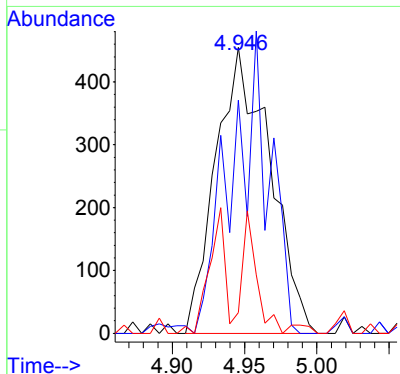
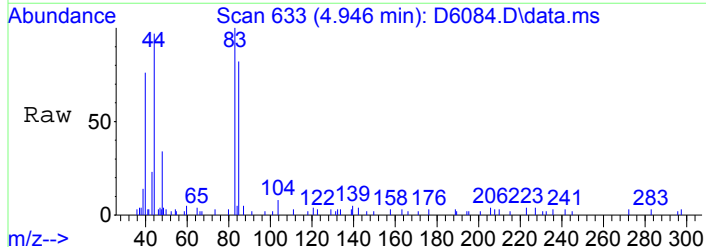
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 4847 | | |
| 43 | 100 | | |
| 57 | 3.0 | 0.0 | 27.8 |
| 72 | 26.3 | 5.1 | 45.1 |





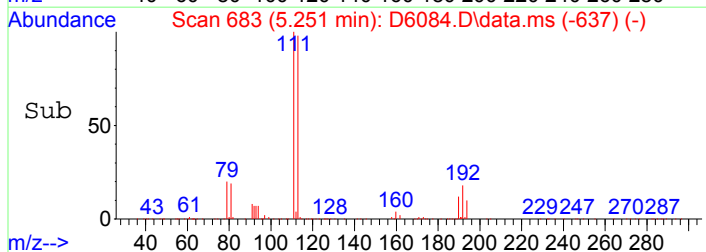
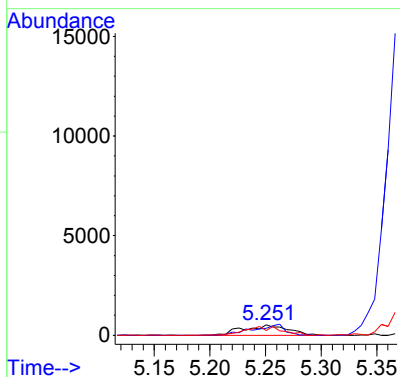
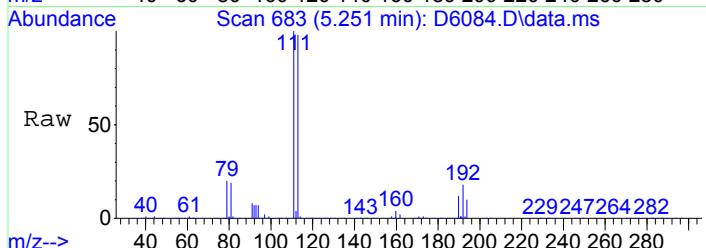
#39
Chloroform
Concen: 0.35 ug/L
RT: 4.946 min Scan# 633
Delta R.T. -0.006 min
Lab File: D6084.D
Acq: 24 Sep 2018 7:08 pm

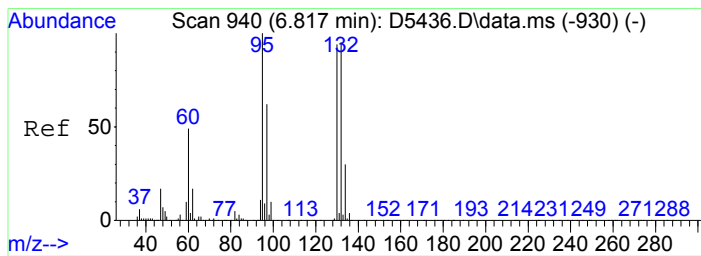
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83 | 100 | | |
| 85 | 81.5 | 43.7 | 83.7 |
| 47 | 7.3 | 6.9 | 46.9 |



#40
1,1,1-Trichloroethane
Concen: 0.51 ug/L m
RT: 5.251 min Scan# 683
Delta R.T. -0.000 min
Lab File: D6084.D
Acq: 24 Sep 2018 7:08 pm

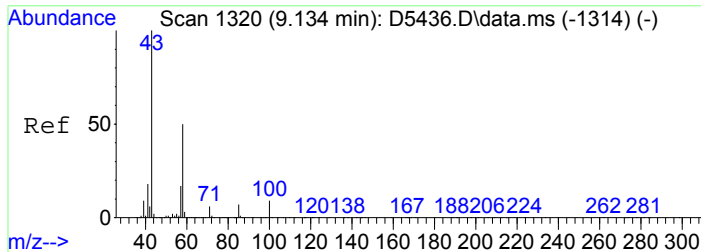
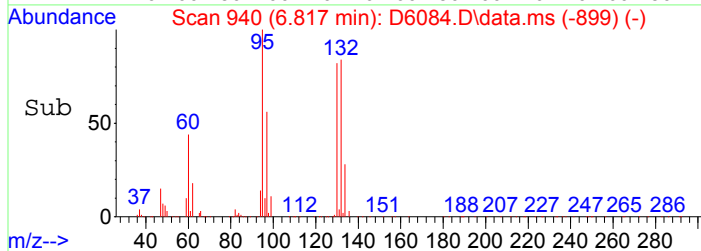
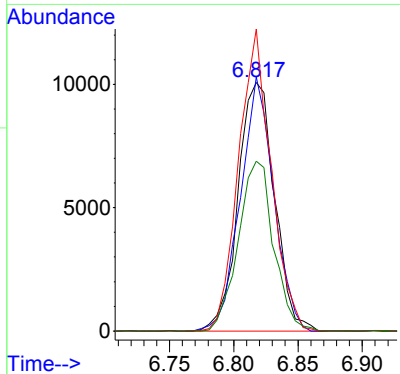
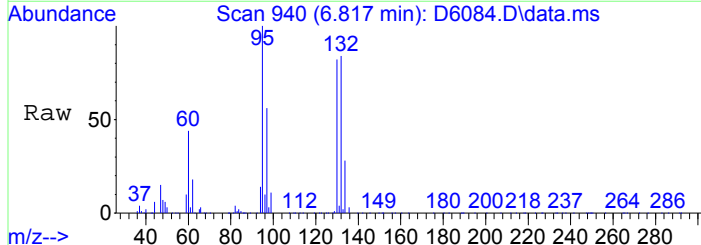
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97 | 100 | | |
| 99 | 67.8 | 45.0 | 85.0 |
| 61 | 44.7 | 29.1 | 69.1 |





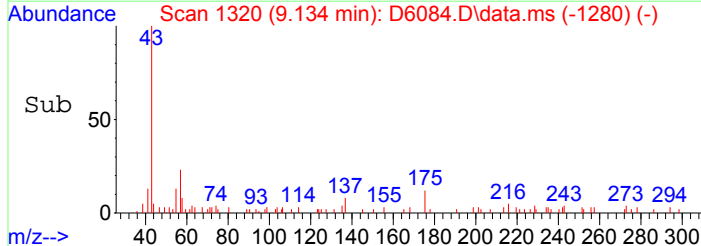
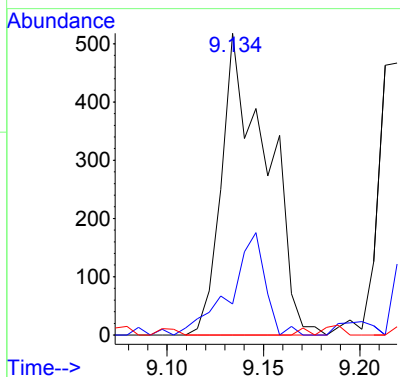
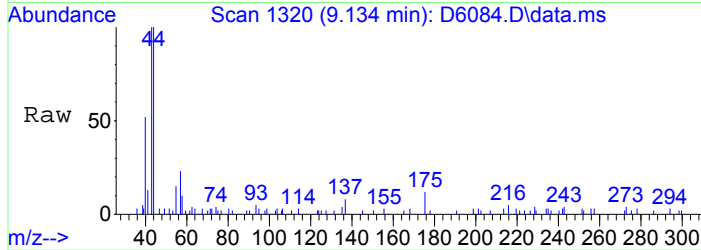
#53
 Trichloroethene
 Concen: 9.70 ug/L
 RT: 6.817 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: D6084.D
 Acq: 24 Sep 2018 7:08 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 130 | 19894 | | |
| 130 | 100 | | |
| 132 | 102.2 | 80.7 | 120.7 |
| 95 | 121.5 | 86.1 | 126.1 |
| 97 | 68.4 | 45.5 | 85.5 |



#72
 2-Hexanone
 Concen: 0.38 ug/L
 RT: 9.134 min Scan# 1320
 Delta R.T. -0.000 min
 Lab File: D6084.D
 Acq: 24 Sep 2018 7:08 pm

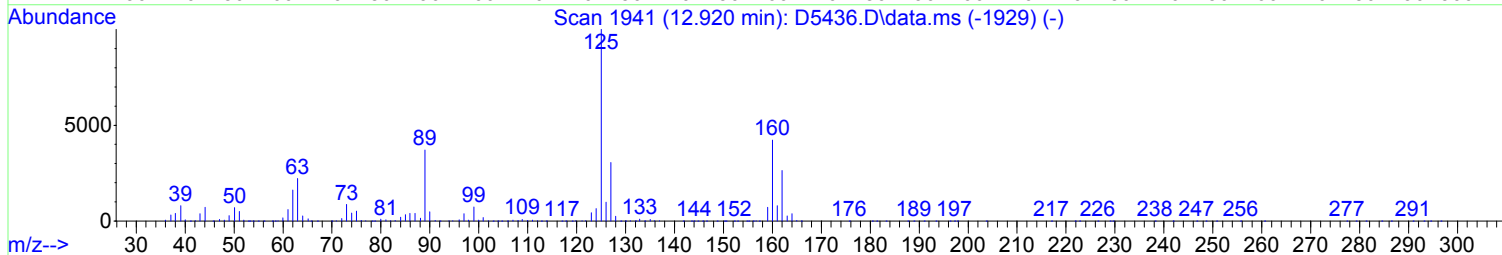
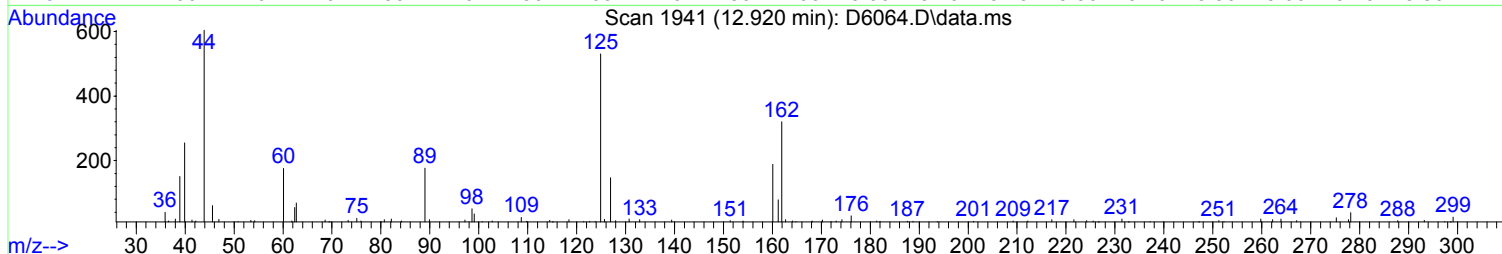
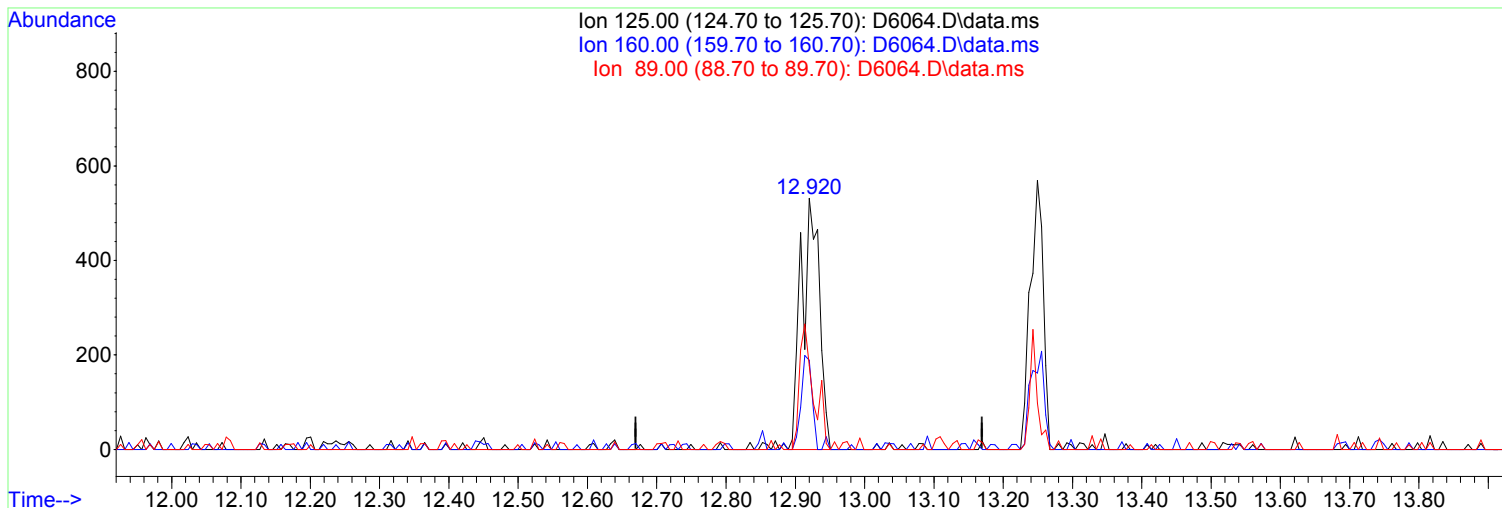
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 43 | 840 | | |
| 43 | 100 | | |
| 58 | 10.2 | 30.1 | 70.1# |
| 100 | 0.0 | 0.0 | 28.6 |



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6064.D
Acq On : 24 Sep 2018 11:21 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 11:35:42 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(111) Trilution Dichlorotoluene

12.920min (+0.000) 0.25 ug/L m
response 955

| Ion | Exp% | Act% |
|--------|-------|-------|
| 125.00 | 100 | 100 |
| 160.00 | 42.30 | 35.59 |
| 89.00 | 37.10 | 33.33 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

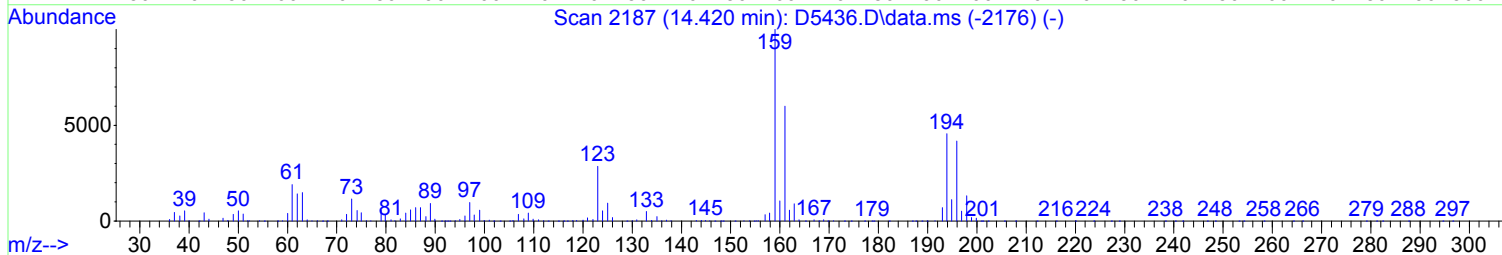
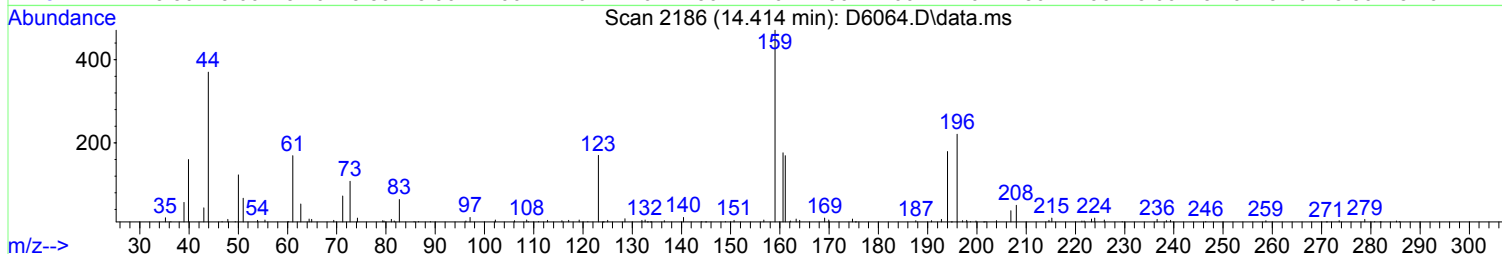
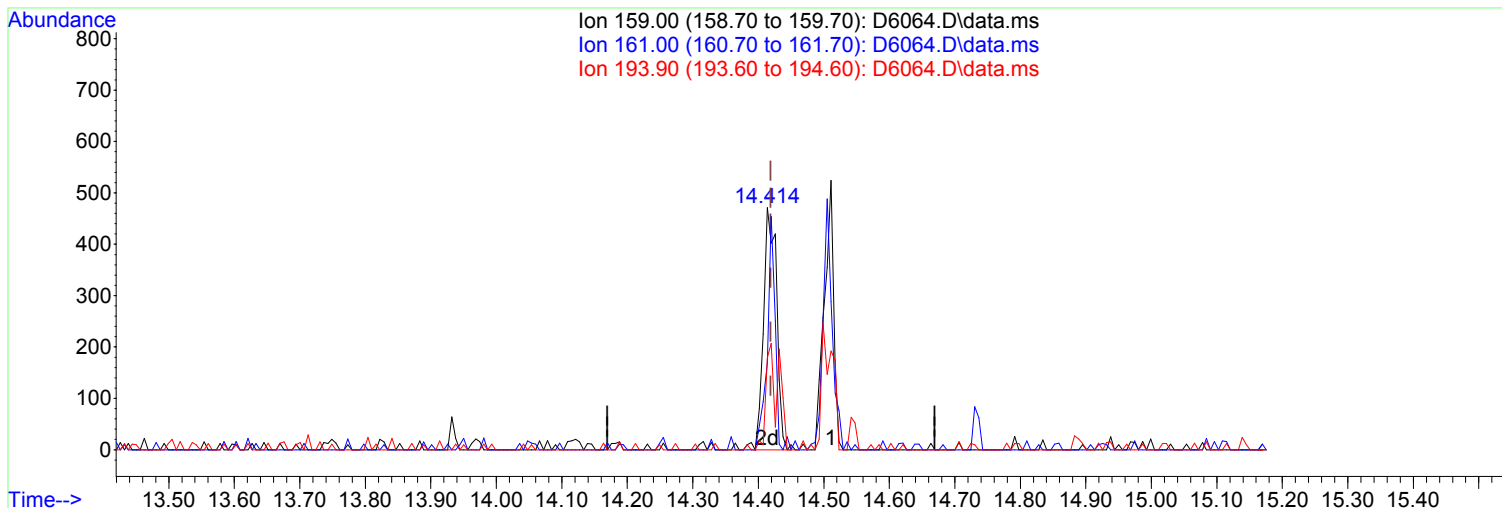
Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6064.D
Acq On : 24 Sep 2018 11:21 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 11:35:42 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(118) 2,4,5-Trichlorotoluene

14.414min (-0.006) 0.31 ug/L m
response 647

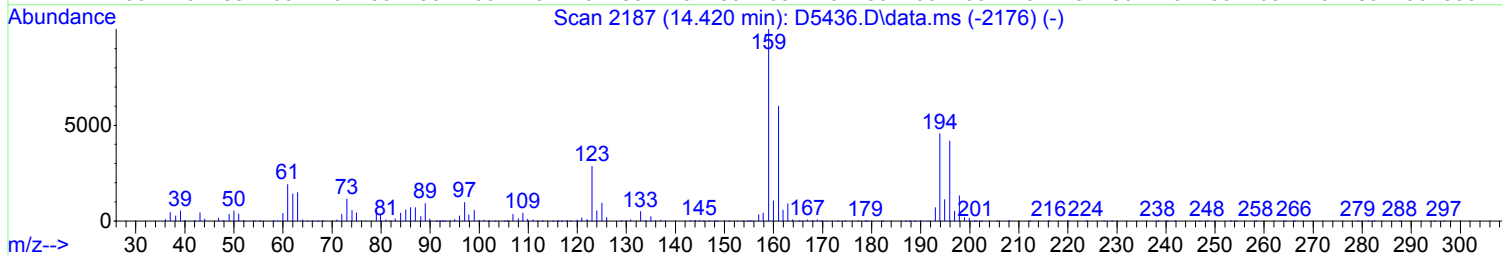
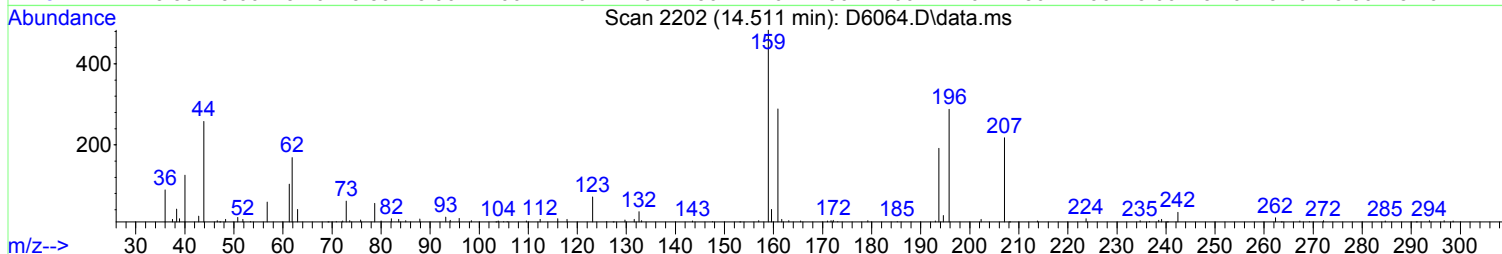
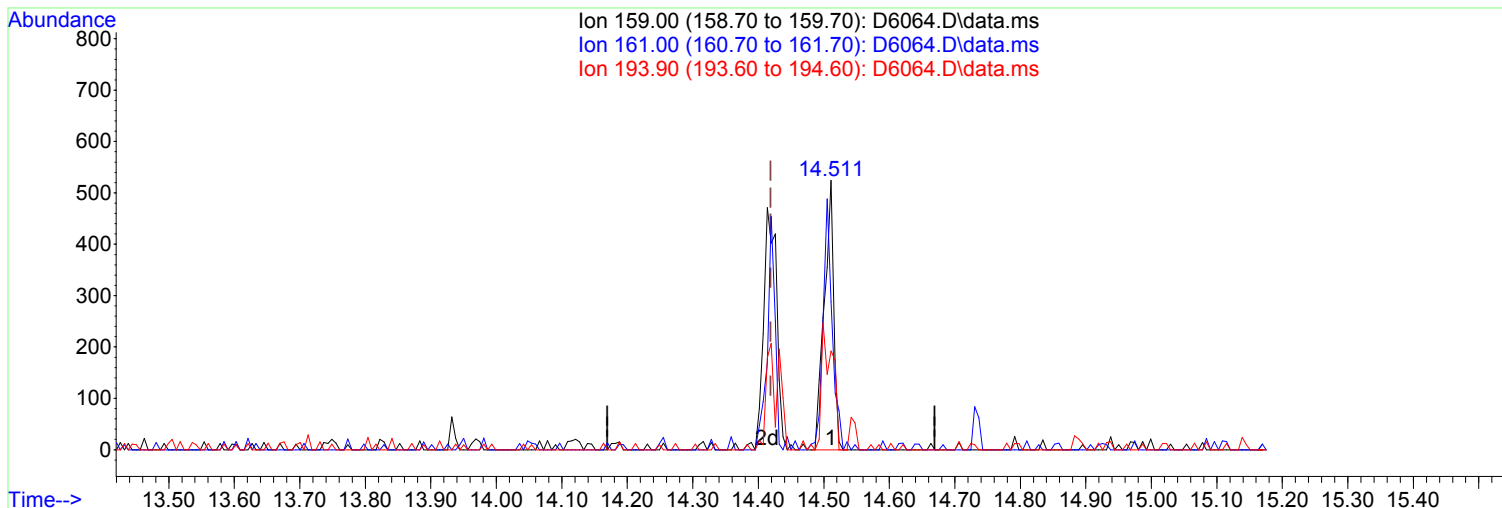
| Ion | Exp% | Act% |
|--------|-------|--------|
| 159.00 | 100 | 100 |
| 161.00 | 59.90 | 35.88# |
| 193.90 | 45.60 | 38.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6064.D
Acq On : 24 Sep 2018 11:21 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 11:35:42 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(118) 2,4,5-Trichlorotoluene
14.511min (+0.092) 0.25 ug/L
response 529
Ion Exp% Act%
159.00 100 100
161.00 59.90 58.21
193.90 45.60 41.60
0.00 0.00 0.00

Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6064.D
 Acq On : 24 Sep 2018 11:21 am
 Operator : D.LIPANI
 Sample : MET BLK Inst : MSVOA10
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 14:26:58 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 222881 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 335947 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 297745 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 150721 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.239 | 113 | 105031 | 46.39 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 92.78% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 151321 | 50.83 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 101.66% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 440320 | 47.97 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 95.94% | |
| 69) SURR2,BFB | 10.878 | 95 | 159874 | 45.32 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 90.64% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.538 | 94 | 698 | Below Cal | # | 26 |
| 38) Tetrahydrofuran | 4.885 | 42 | 755 | 0.69 | ug/L | # 53 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 955m | 0.25 | ug/L | |
| 118) 2,4,5-Trichlorotoluene | 14.414 | 159 | 647m | 0.31 | ug/L | |
| 119) 2,3,6-Trichlorotoluene | 14.511 | 159 | 529 | 0.27 | ug/L | 90 |

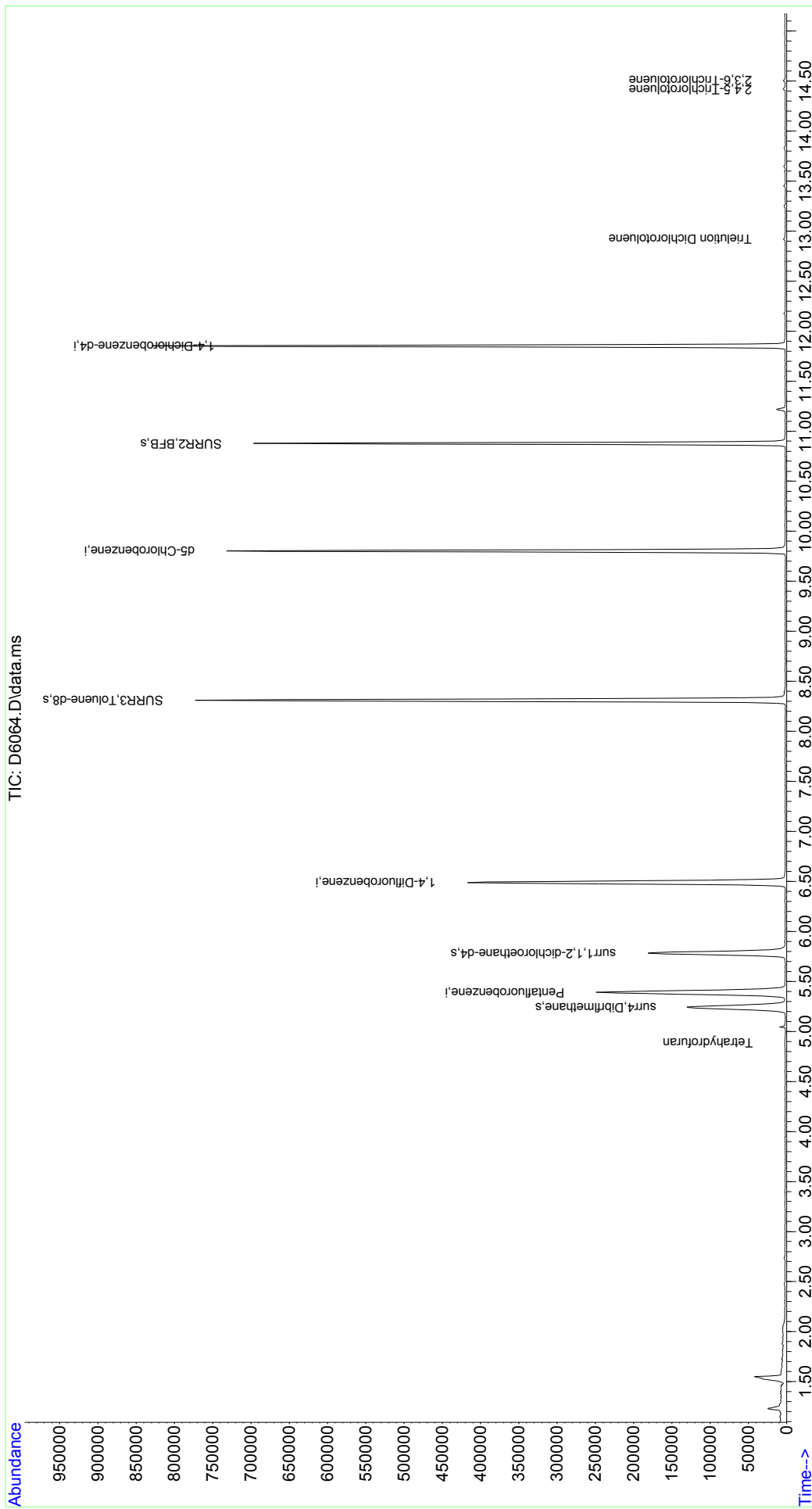
(#) = qualifier out of range (m) = manual integration (+) = signals summed

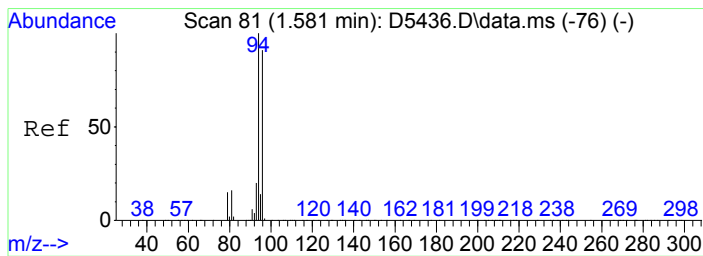
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6064.D
Acq On : 24 Sep 2018 11:21 am
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

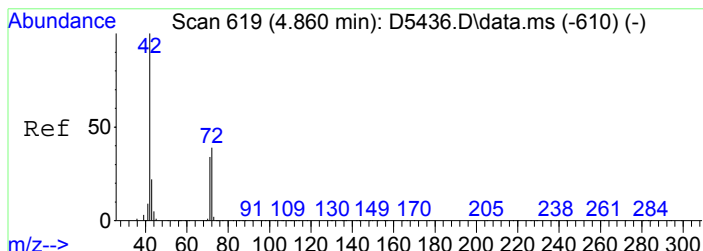
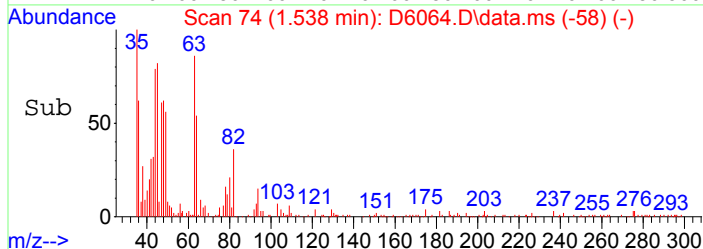
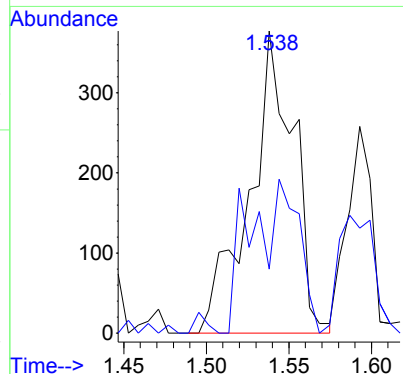
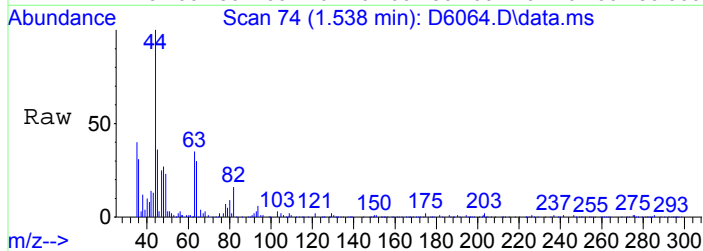
Quant Time: Sep 27 14:26:58 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





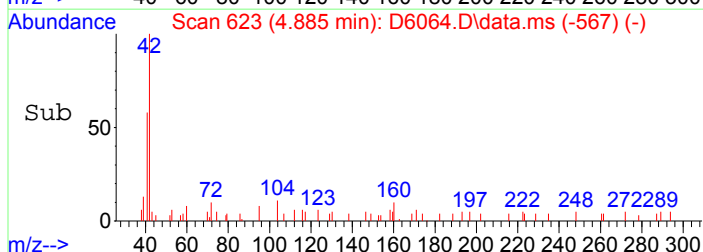
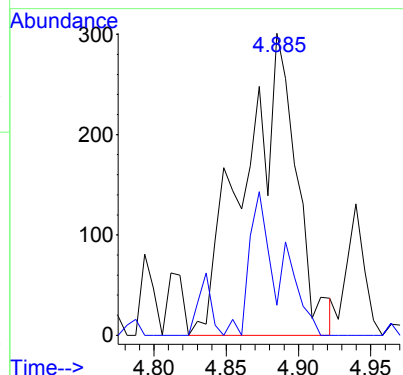
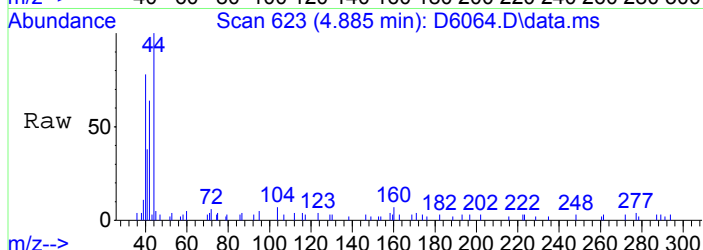
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.538 min Scan# 74
 Delta R.T. -0.043 min
 Lab File: D6064.D
 Acq: 24 Sep 2018 11:21 am

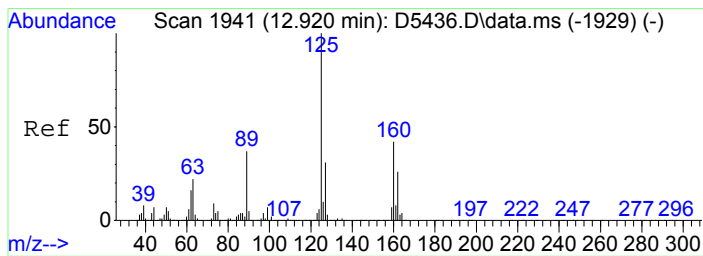
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|--------|
| 94 | 100 | | |
| 96 | 21.2 | 71.1 | 111.1# |



#38
 Tetrahydrofuran
 Concen: 0.69 ug/L
 RT: 4.885 min Scan# 623
 Delta R.T. 0.024 min
 Lab File: D6064.D
 Acq: 24 Sep 2018 11:21 am

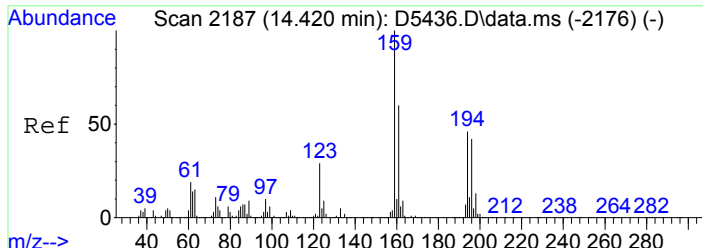
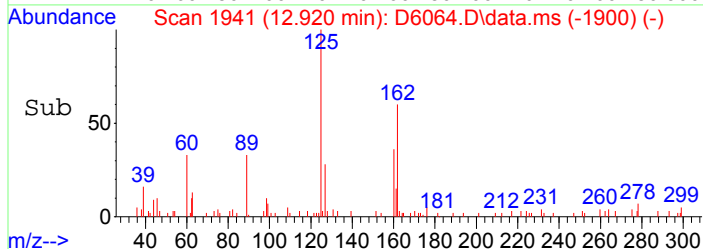
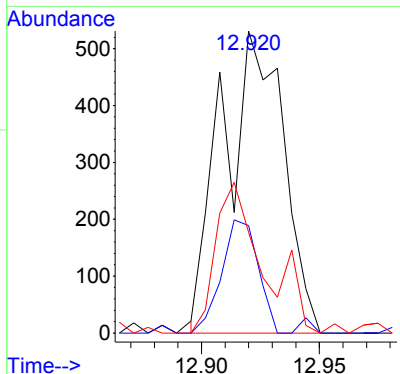
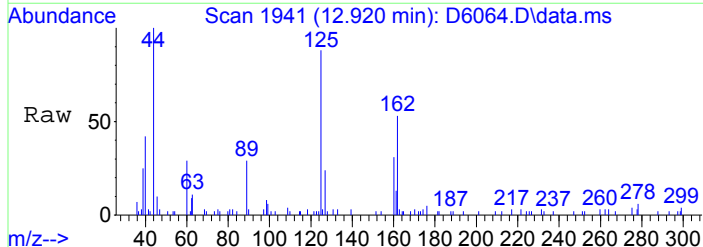
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 42 | 100 | | |
| 72 | 10.0 | 18.8 | 58.8# |





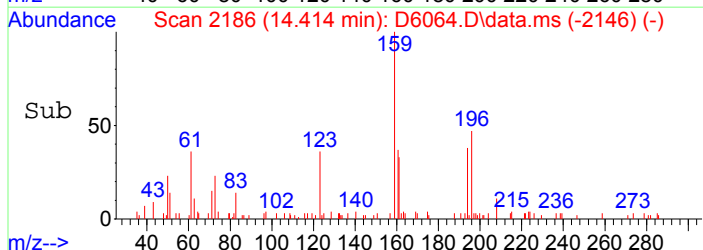
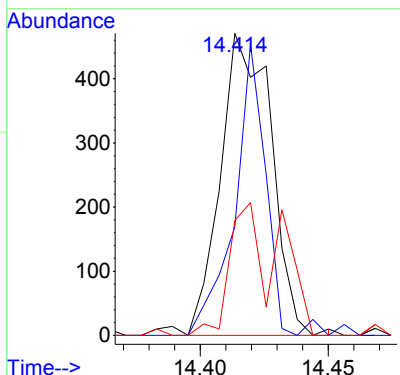
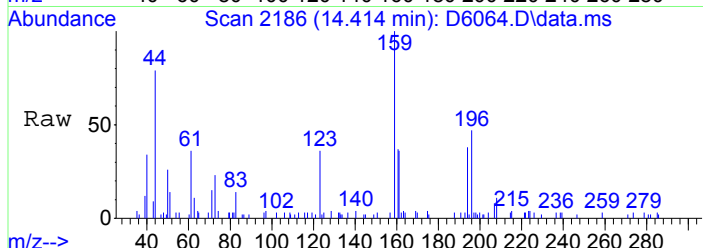
#111
 Trielution Dichlorotoluene
 Concen: 0.25 ug/L m
 RT: 12.920 min Scan# 1941
 Delta R.T. 0.000 min
 Lab File: D6064.D
 Acq: 24 Sep 2018 11:21 am

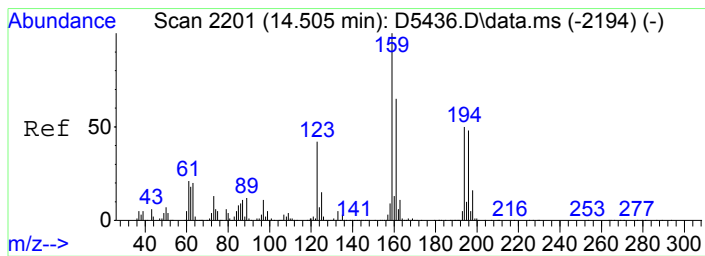
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 955 | | |
| 160 | 35.6 | 22.3 | 62.3 |
| 89 | 33.3 | 17.1 | 57.1 |



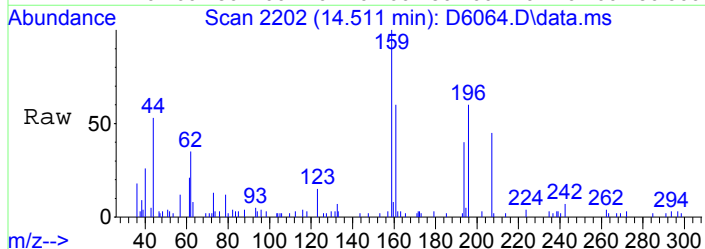
#118
 2,4,5-Trichlorotoluene
 Concen: 0.31 ug/L m
 RT: 14.414 min Scan# 2186
 Delta R.T. -0.006 min
 Lab File: D6064.D
 Acq: 24 Sep 2018 11:21 am

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 159 | 647 | | |
| 161 | 35.9 | 39.9 | 79.9# |
| 194 | 38.0 | 25.6 | 65.6 |

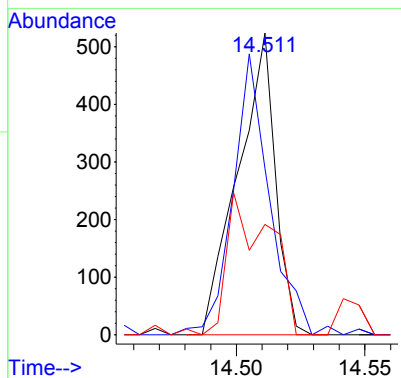
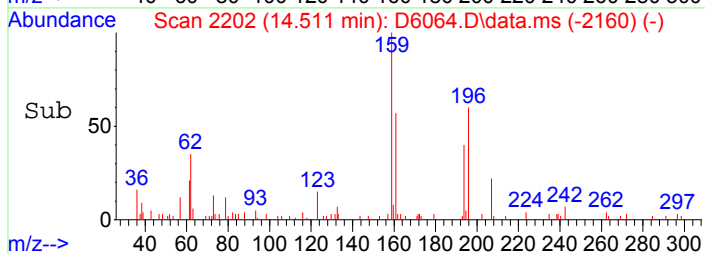




#119
 2,3,6-Trichlorotoluene
 Concen: 0.27 ug/L
 RT: 14.511 min Scan# 2202
 Delta R.T. 0.006 min
 Lab File: D6064.D
 Acq: 24 Sep 2018 11:21 am



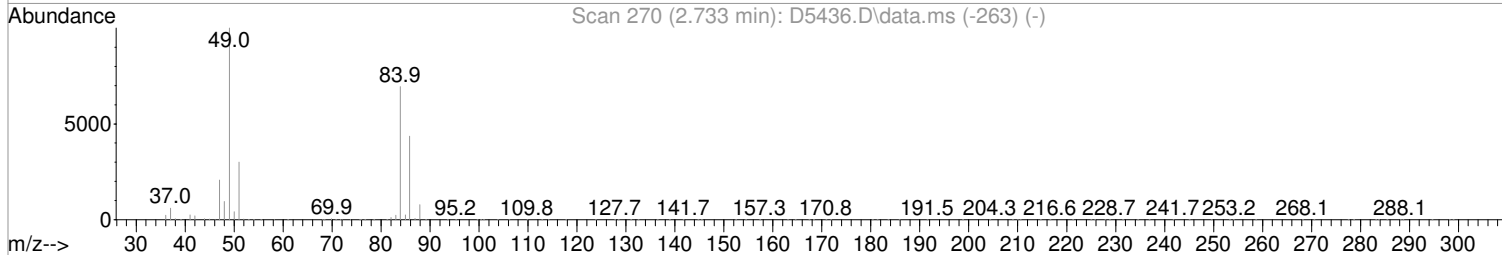
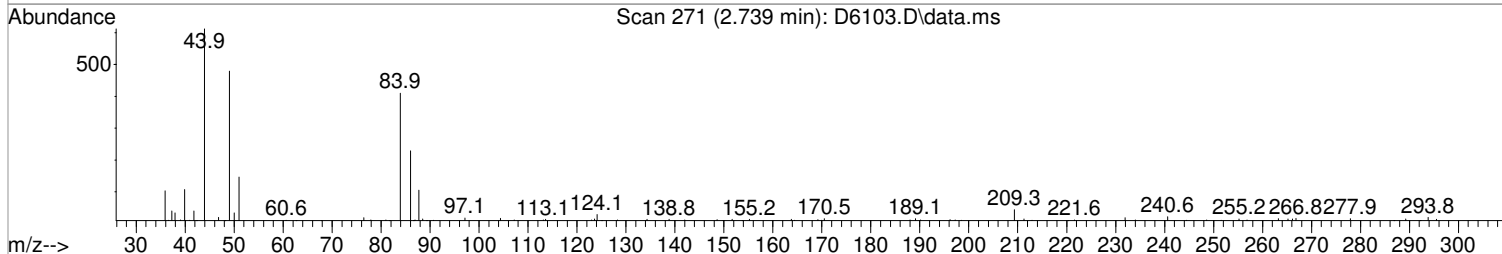
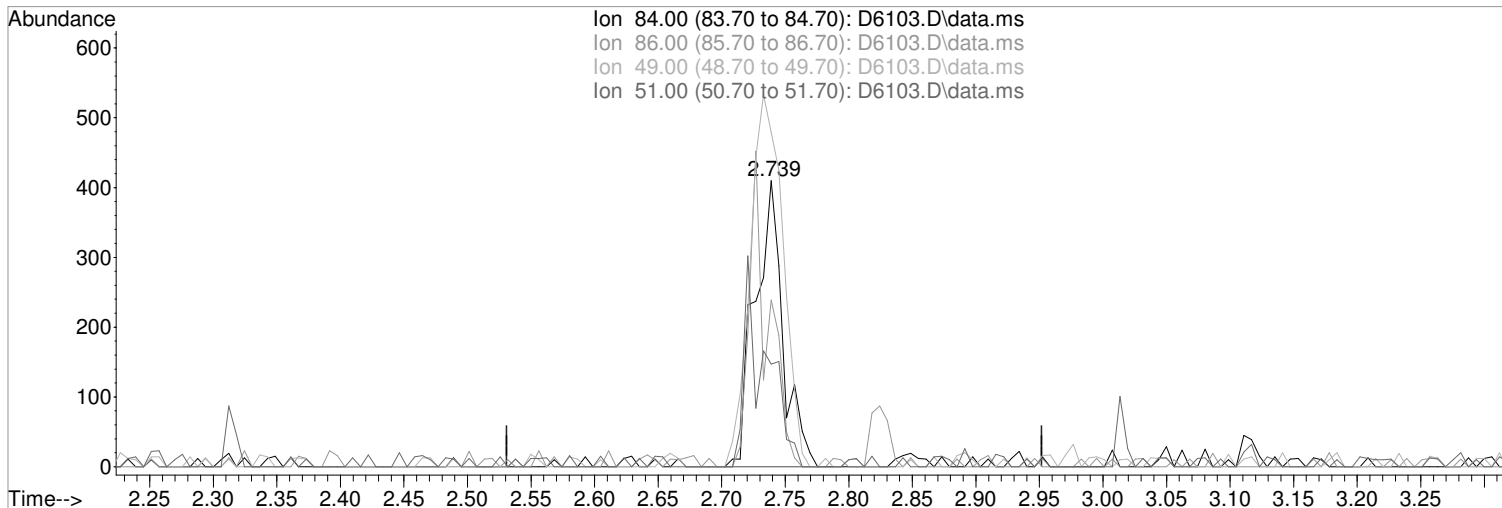
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 159 | 100 | | |
| 161 | 58.2 | 45.1 | 85.1 |
| 194 | 41.6 | 30.2 | 70.2 |



Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6103.D
Acq On : 25 Sep 2018 12:32 pm
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 12:46:30 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6103.D\data.ms

(22) Methylene Chloride (P)
2.739min (+0.006) 0.29 ug/L m
response 629

Manual Integration:
After
Peak not found.

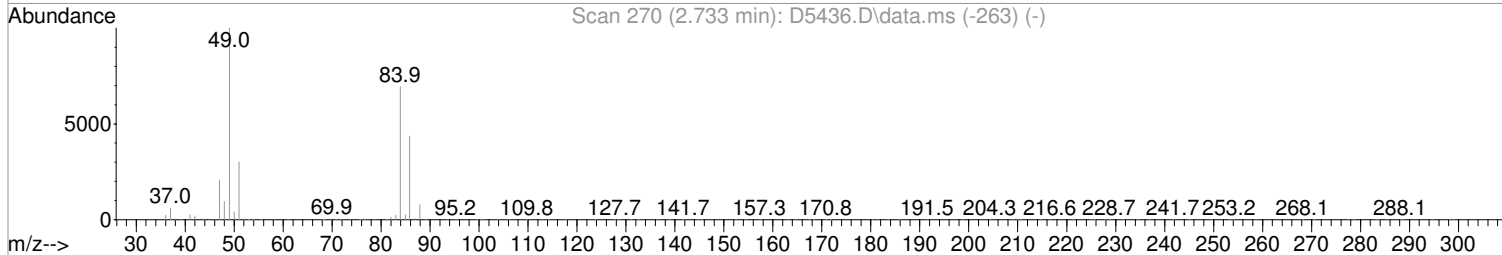
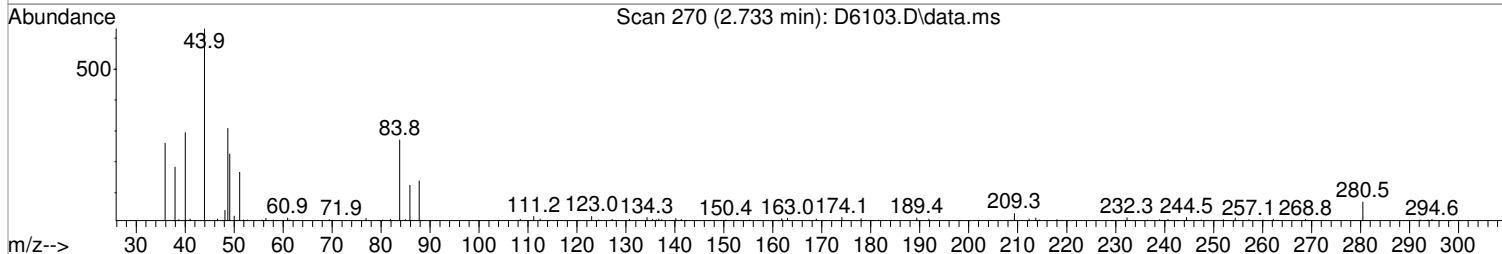
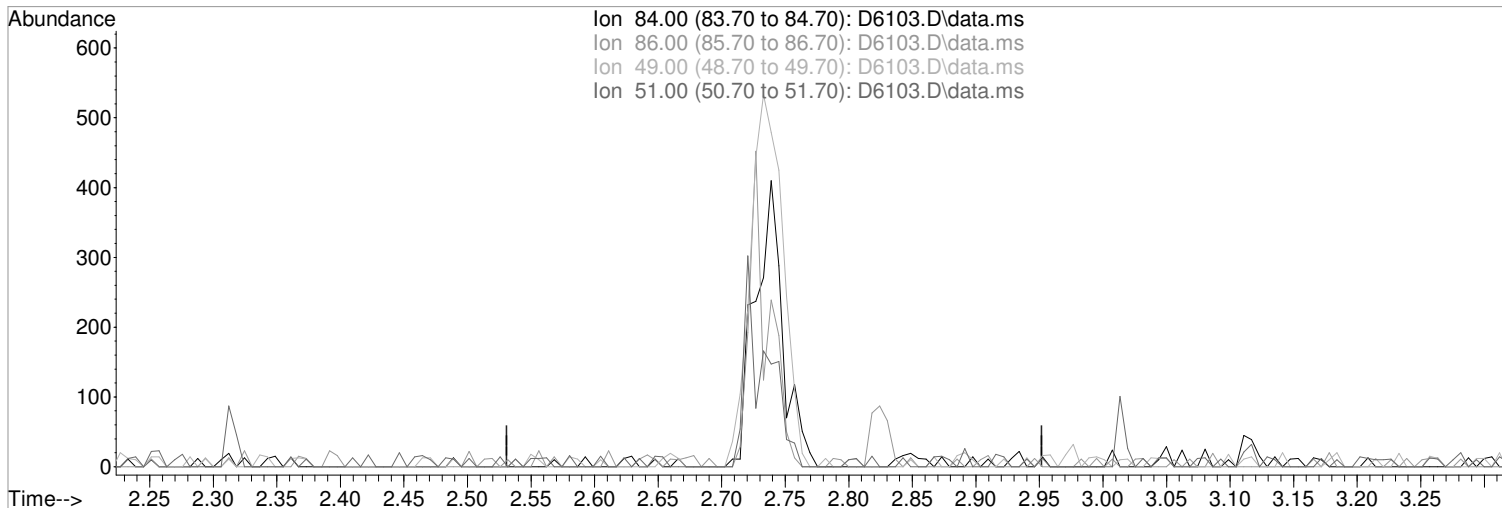
| Ion | Exp% | Act% |
|-------|--------|---------|
| 84.00 | 100 | 100 |
| 86.00 | 62.80 | 55.85 |
| 49.00 | 143.90 | 116.83# |
| 51.00 | 43.20 | 35.85 |

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6103.D
Acq On : 25 Sep 2018 12:32 pm
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 12:46:30 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(22) Methylene Chloride (P)
2.733min (-2.733) 0.00 ug/L
response 0

Manual Integration:
Before

| Ion | Exp% | Act% |
|-------|--------|-------|
| 84.00 | 100 | 0.00 |
| 86.00 | 62.80 | 0.00# |
| 49.00 | 143.90 | 0.00# |
| 51.00 | 43.20 | 0.00# |

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6103.D
 Acq On : 25 Sep 2018 12:32 pm
 Operator : D.LIPANI
 Sample : MET BLK Inst : MSVOA10
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 15:12:30 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|--------------------------------|--------|-------|----------|----------|--------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 199456 | 50.00 | ug/L | 0.00 | |
| 41) 1,4-Difluorobenzene | 6.494 | 114 | 314548 | 50.00 | ug/L | 0.00 | |
| 70) d5-Chlorobenzene | 9.805 | 117 | 277877 | 50.00 | ug/L | 0.00 | |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 137102 | 50.00 | ug/L | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 104897 | 49.49 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 89 - 119 | Recovery | = | 98.98% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 149565 | 53.65 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 73 - 125 | Recovery | = | 107.30% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 431104 | 50.16 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 87 - 121 | Recovery | = | 100.32% | |
| 69) SURR2,BFB | 10.878 | 95 | 151603 | 45.90 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range | 85 - 122 | Recovery | = | 91.80% | |
| Target Compounds | | | | | | | |
| 22) Methylene Chloride | 2.739 | 84 | 629m | 0.29 | ug/L | | Qvalue |
| 111) Trielution Dichlorotol... | 12.908 | 125 | 926 | 0.27 | ug/L | | 88 |
| 113) Coelution Dichlorotoluene | 13.249 | 125 | 807 | 0.21 | ug/L | | 85 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 736 | 0.39 | ug/L | | 77 |
| 119) 2,3,6-Trichlorotoluene | 14.511 | 159 | 414 | 0.23 | ug/L # | | 61 |

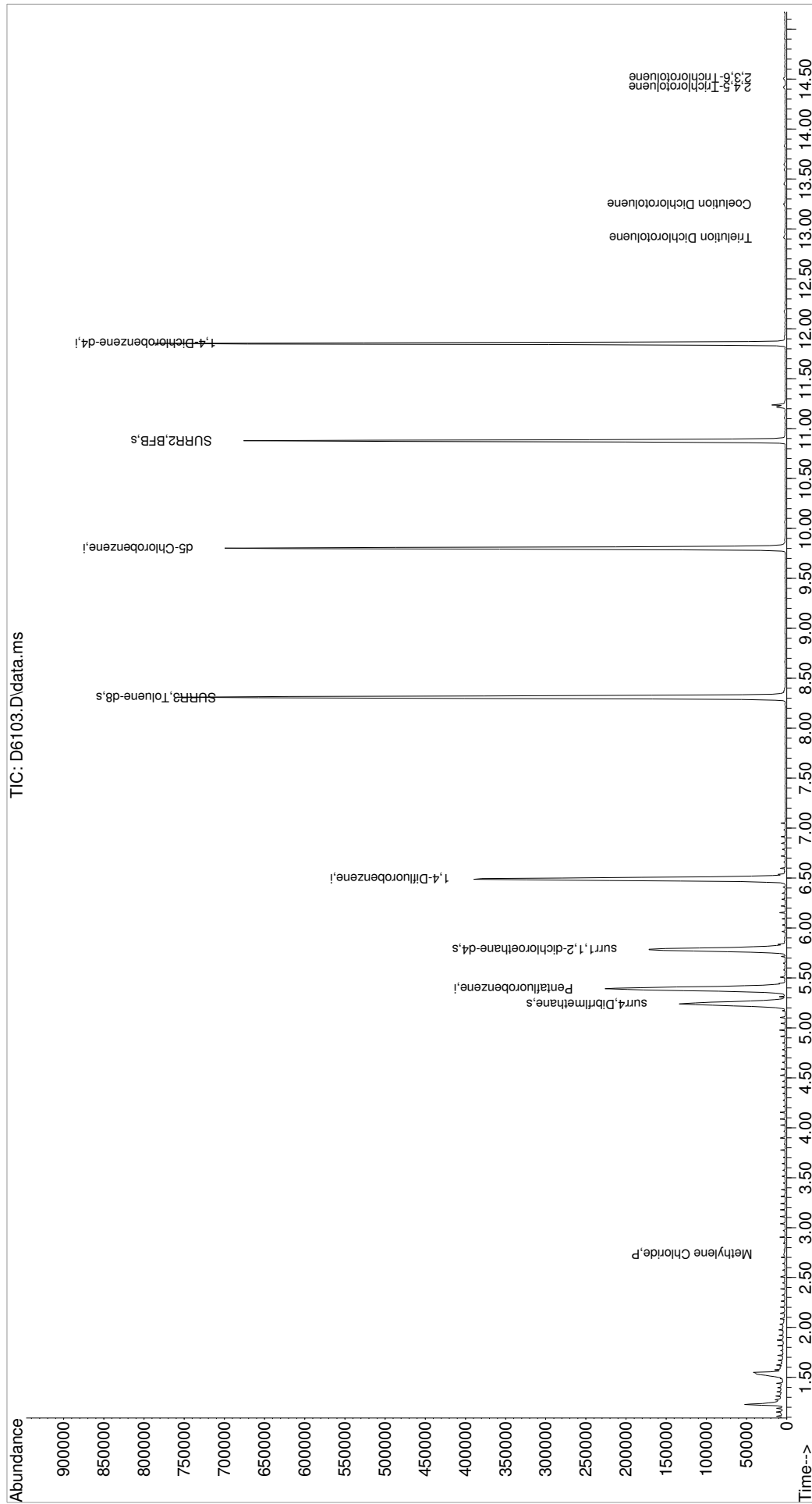
(#) = qualifier out of range (m) = manual integration (+) = signals summed

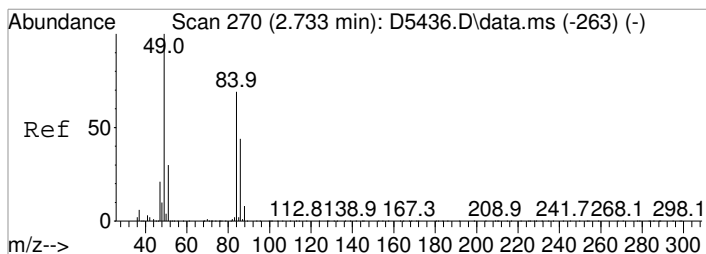
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\092518\
Data File : D6103.D
Acq On : 25 Sep 2018 12:32 pm
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

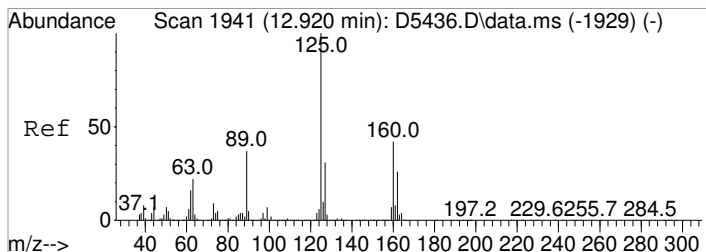
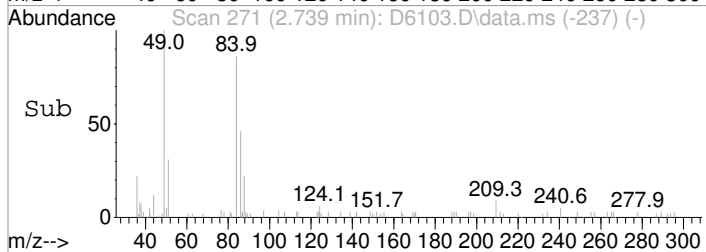
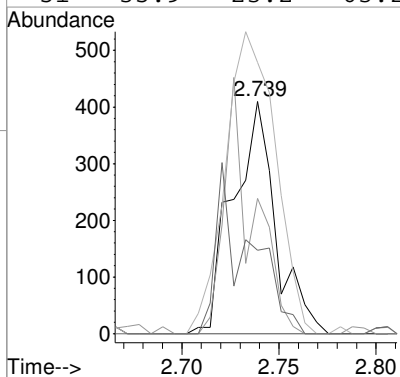
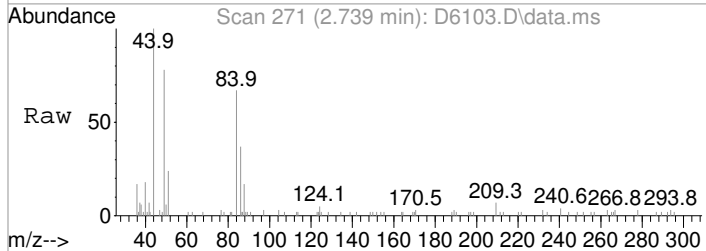
Quant Time: Sep 27 15:12:30 2018
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration





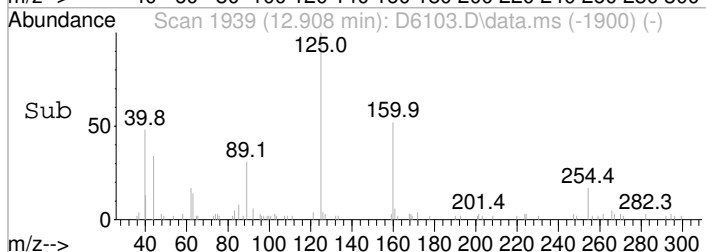
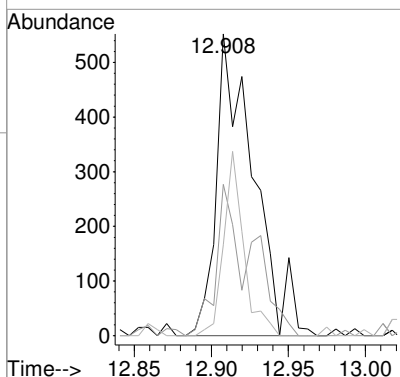
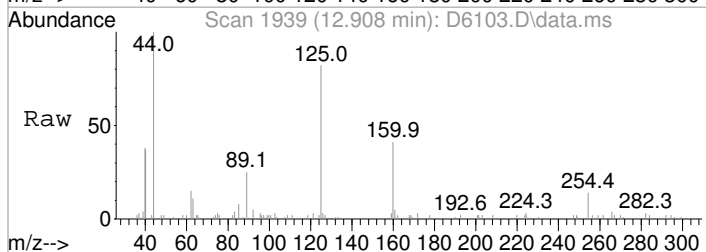
#22
 Methylene Chloride
 Concen: 0.29 ug/L m
 RT: 2.739 min Scan# 271
 Delta R.T. 0.006 min
 Lab File: D6103.D
 Acq: 25 Sep 2018 12:32 pm

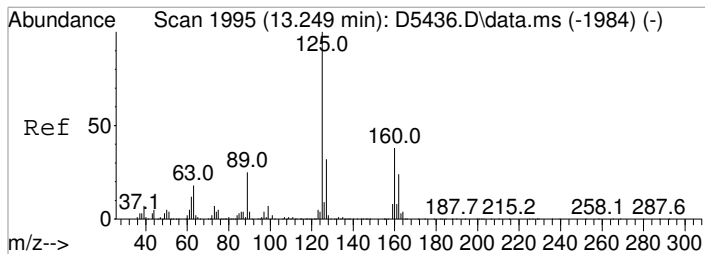
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|--------|
| 84 | 100 | | |
| 86 | 55.9 | 42.8 | 82.8 |
| 49 | 116.8 | 123.9 | 163.9# |
| 51 | 35.9 | 23.2 | 63.2 |



#111
 Trilution Dichlorotoluene
 Concen: 0.27 ug/L
 RT: 12.908 min Scan# 1939
 Delta R.T. -0.012 min
 Lab File: D6103.D
 Acq: 25 Sep 2018 12:32 pm

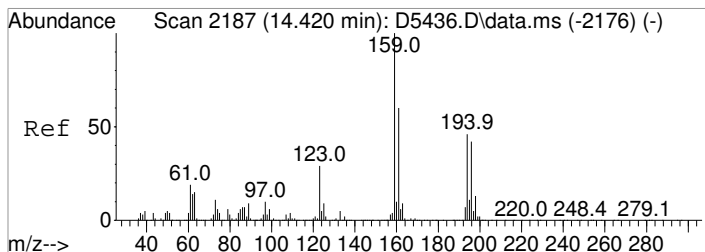
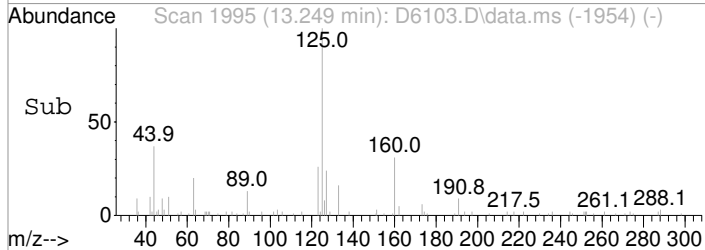
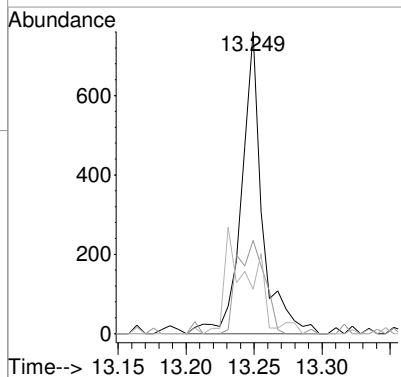
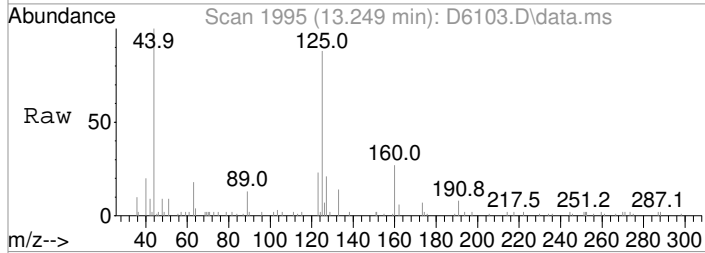
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 100 | | |
| 160 | 50.2 | 22.3 | 62.3 |
| 89 | 30.1 | 17.1 | 57.1 |





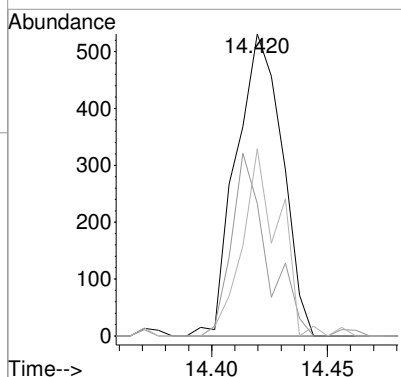
#113
 Coelution Dichlorotoluene
 Concen: 0.21 ug/L
 RT: 13.249 min Scan# 1995
 Delta R.T. 0.000 min
 Lab File: D6103.D
 Acq: 25 Sep 2018 12:32 pm

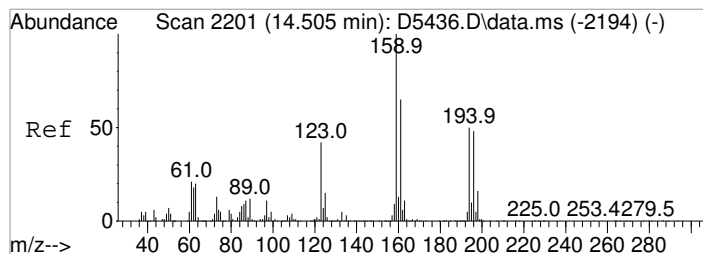
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 125 | 100 | | |
| 160 | 30.9 | 17.8 | 57.8 |
| 89 | 14.7 | 5.2 | 45.2 |



#118
 2,4,5-Trichlorotoluene
 Concen: 0.39 ug/L
 RT: 14.420 min Scan# 2187
 Delta R.T. 0.000 min
 Lab File: D6103.D
 Acq: 25 Sep 2018 12:32 pm

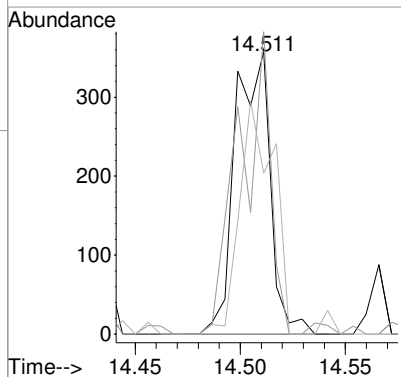
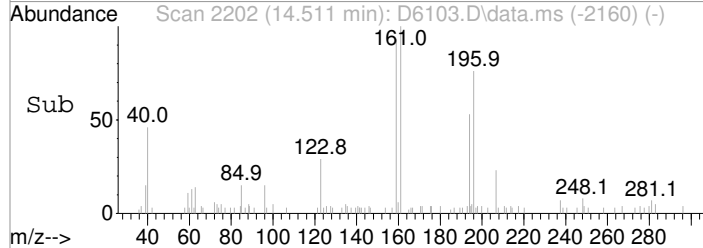
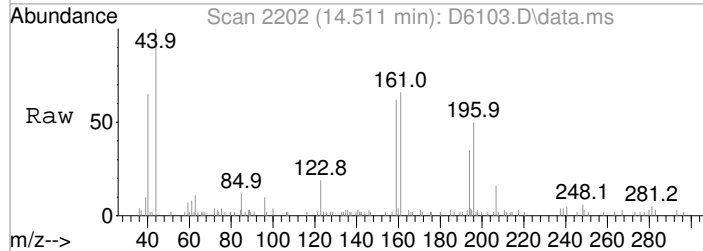
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 159 | 100 | | |
| 161 | 43.9 | 39.9 | 79.9 |
| 194 | 62.0 | 25.6 | 65.6 |





#119
 2,3,6-Trichlorotoluene
 Concen: 0.23 ug/L
 RT: 14.511 min Scan# 2202
 Delta R.T. 0.006 min
 Lab File: D6103.D
 Acq: 25 Sep 2018 12:32 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 159 | 100 | | |
| 161 | 107.0 | 45.1 | 85.1# |
| 194 | 64.0 | 30.2 | 70.2 |



Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6103.D
 Acq On : 25 Sep 2018 12:32 pm
 Operator : D.LIPANI
 Sample : MET BLK Inst : MSVOA10
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 300 Area counts
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

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

Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D6103.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 1.227 | 20 | 23 | 30 | rBV | 46397 | 67074 | 5.57% | 1.073% |
| 2 | 1.538 | 65 | 74 | 75 | rBV3 | 33321 | 66669 | 5.54% | 1.067% |
| 3 | 5.238 | 671 | 681 | 692 | rBV3 | 131447 | 352471 | 29.29% | 5.639% |
| 4 | 5.391 | 695 | 706 | 718 | rVB | 224015 | 590251 | 49.05% | 9.443% |
| 5 | 5.781 | 760 | 770 | 778 | rBV | 169624 | 420324 | 34.93% | 6.724% |
| 6 | 6.488 | 875 | 886 | 896 | rBV | 387789 | 787275 | 65.42% | 12.595% |
| 7 | 8.311 | 1177 | 1185 | 1193 | rBV | 757547 | 1203419 | 100.00% | 19.252% |
| 8 | 9.805 | 1422 | 1430 | 1440 | rBV | 697881 | 964622 | 80.16% | 15.432% |
| 9 | 10.878 | 1600 | 1606 | 1612 | rBV | 674269 | 826073 | 68.64% | 13.216% |
| 10 | 11.219 | 1657 | 1662 | 1664 | rBV2 | 10802 | 13779 | 1.14% | 0.220% |
| 11 | 11.853 | 1760 | 1766 | 1775 | rBV | 787024 | 958808 | 79.67% | 15.339% |

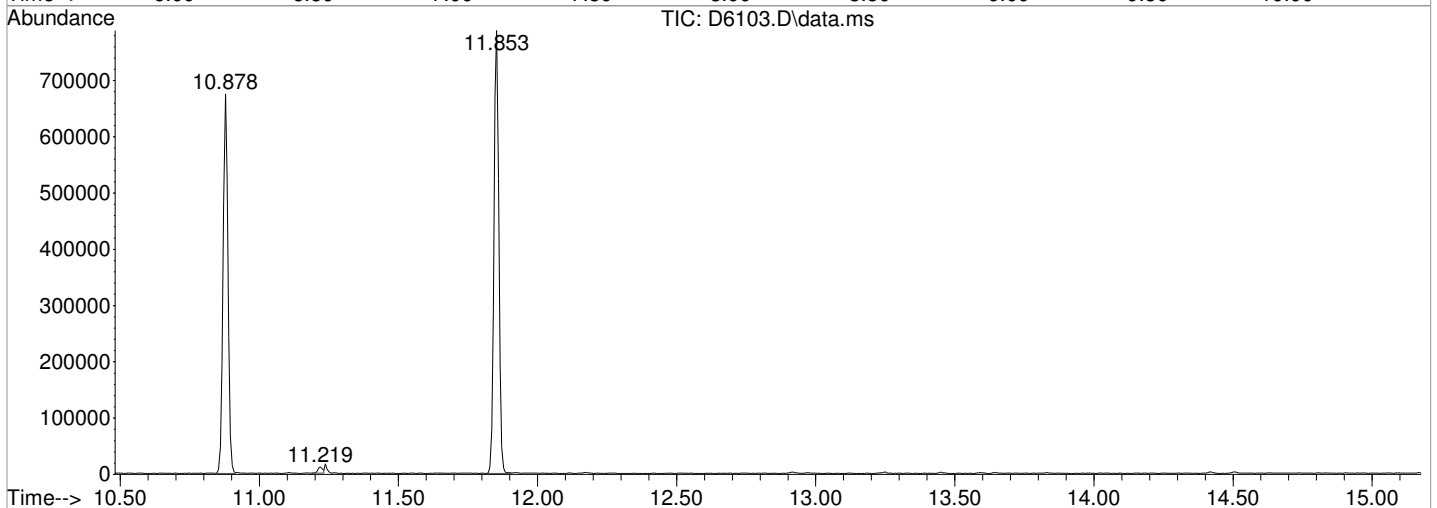
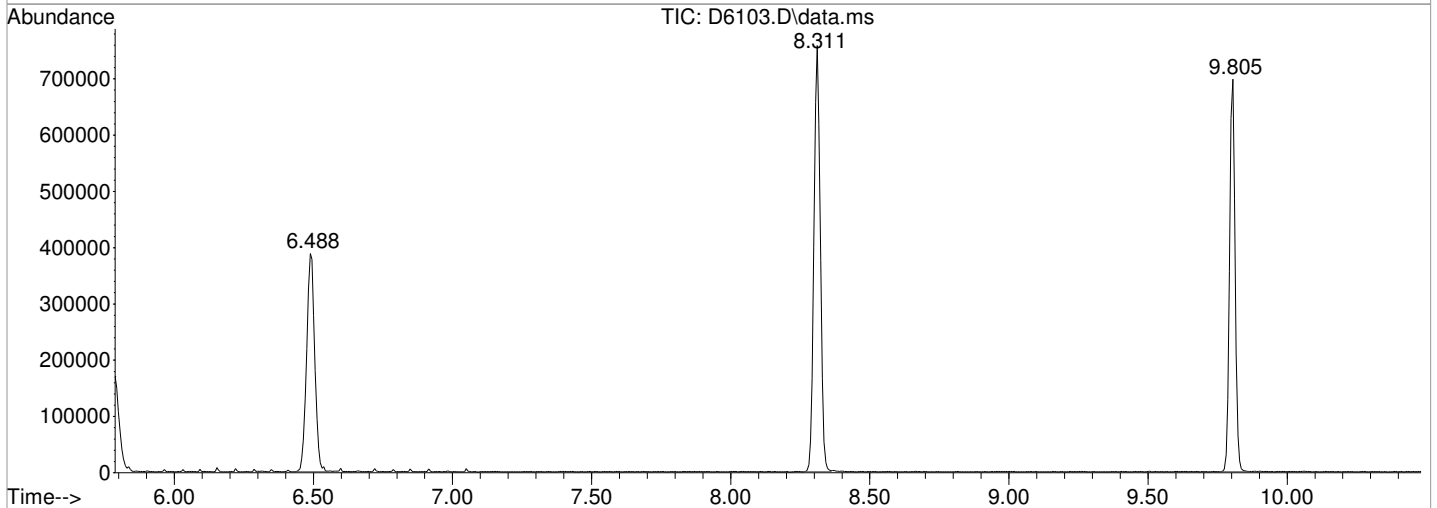
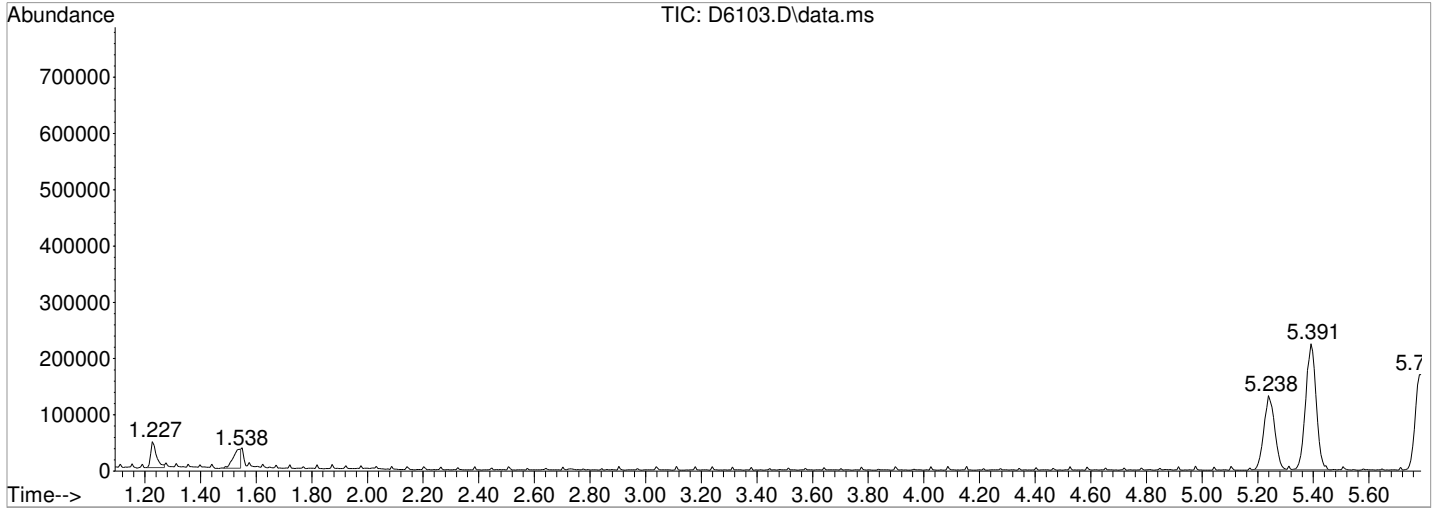
Sum of corrected areas: 6250765

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6103.D
Acq On : 25 Sep 2018 12:32 pm
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6103.D
Acq On : 25 Sep 2018 12:32 pm
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

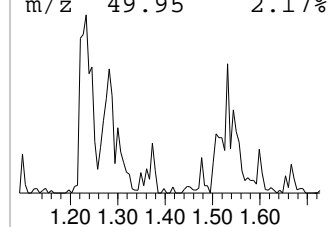
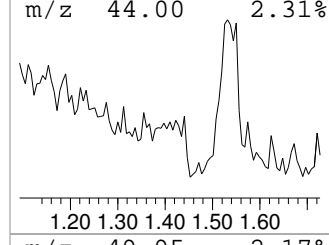
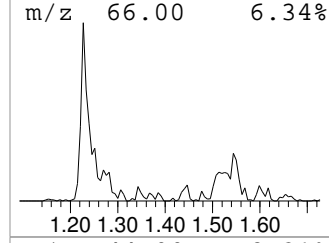
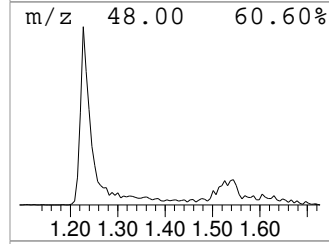
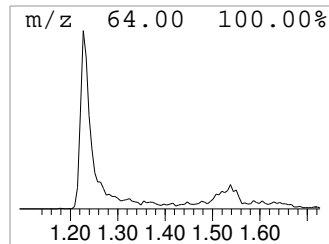
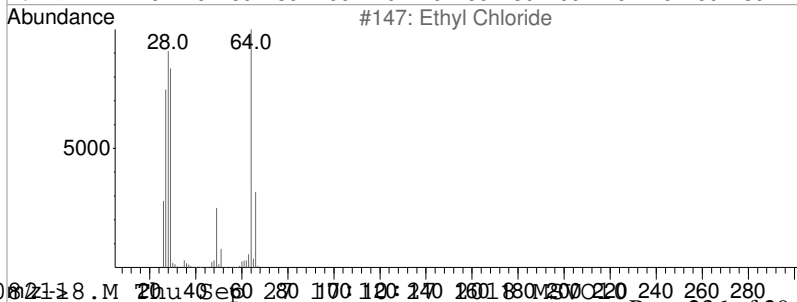
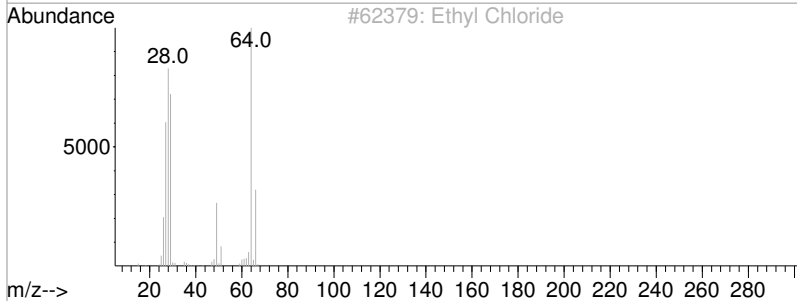
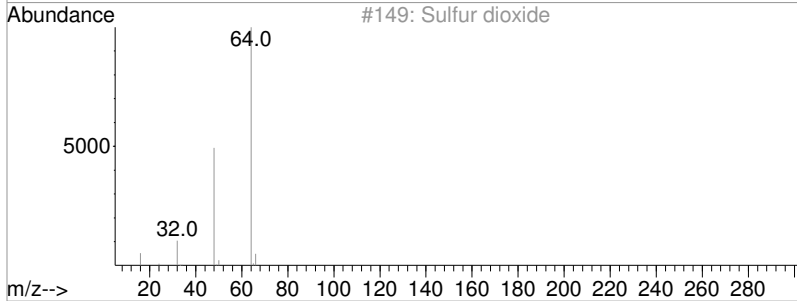
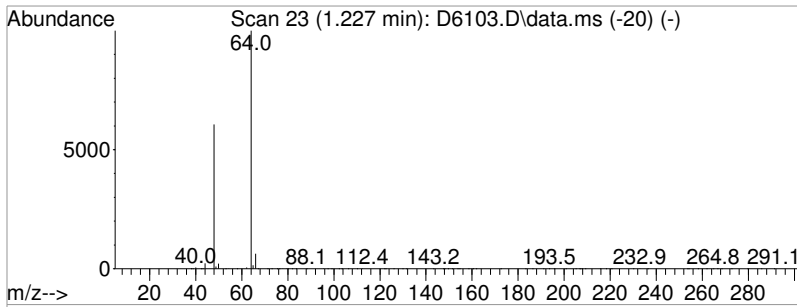
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-----------|-------|--------------------|-------|
| 1.227 | 5.68 ug/L | 67074 | Pentafluorobenzene | 5.391 |

| Hit# of | 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---------|---|-----------------------|----|---------|-------------|------|
| 1 | | Sulfur dioxide | 64 | O2S | 007446-09-5 | 90 |
| 2 | | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |
| 3 | | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |
| 4 | | Ethene, 1,2-difluoro- | 64 | C2H2F2 | 001691-13-0 | 3 |
| 5 | | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 3 |



Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6103.D
Acq On : 25 Sep 2018 12:32 pm
Operator : D.LIPANI
Sample : MET BLK
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

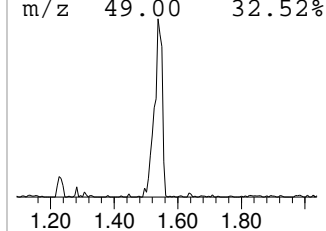
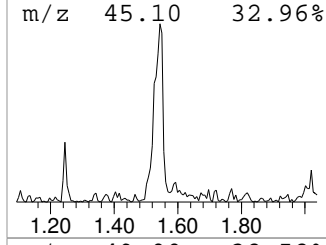
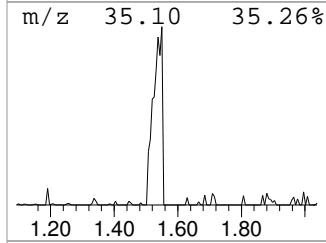
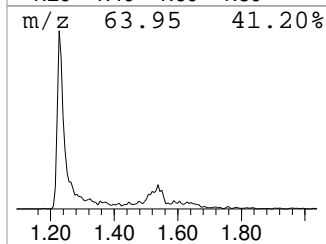
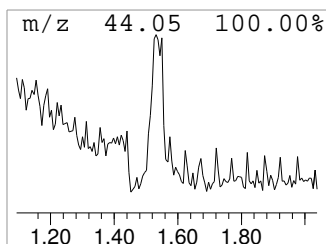
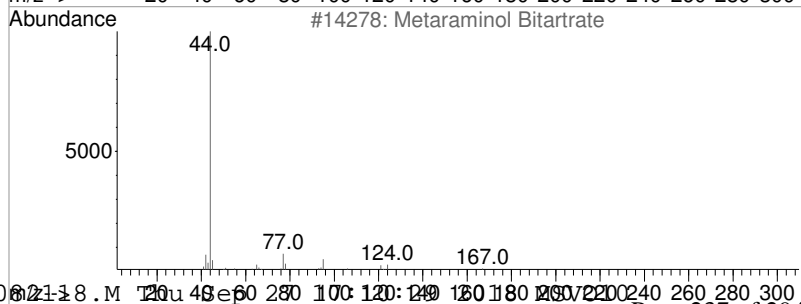
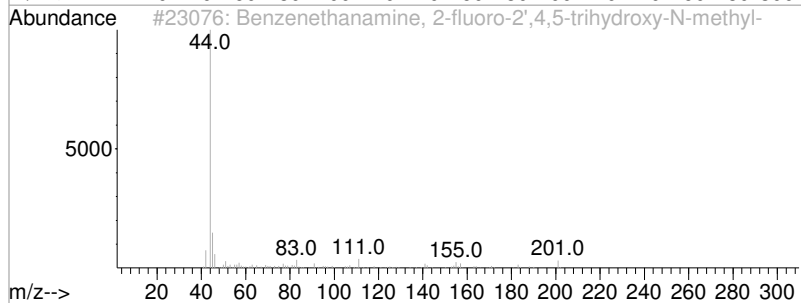
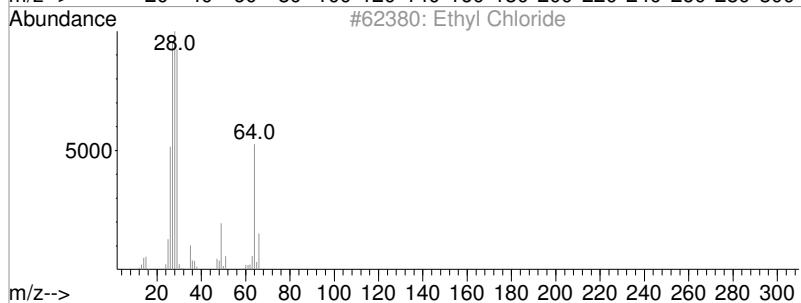
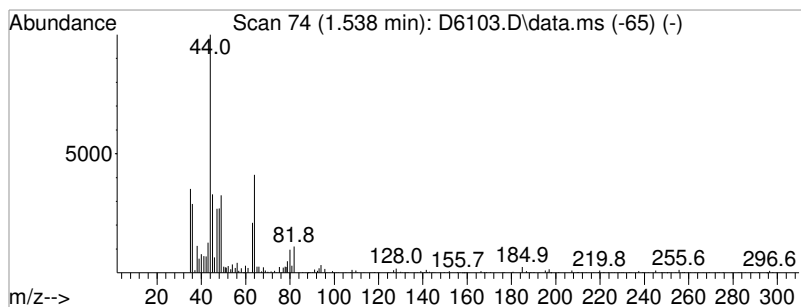
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-----------|-------|--------------------|-------|
| 1.538 | 5.65 ug/L | 66669 | Pentafluorobenzene | 5.391 |

| Hit# of | 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---------|---|--------------------------------------|-----|-----------|-------------|------|
| 1 | | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 32 |
| 2 | | Benzenethanamine, 2-fluoro-2',4,... | 201 | C9H12FNO3 | 000000-00-0 | 9 |
| 3 | | Metaraminol Bitartrate | 167 | C9H13NO2 | 033402-03-8 | 9 |
| 4 | | Benzenethanamine, 4-methoxy-.alph... | 165 | C10H15NO | 023239-32-9 | 9 |
| 5 | | Phenylpropanolamine | 151 | C9H13NO | 000492-41-1 | 9 |



Tentatively Identified Compound (LSC) summary

1st DL 09/27/18
 2nd FN 09/28/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6103.D
 Acq On : 25 Sep 2018 12:32 pm
 Operator : D.LIPANI
 Sample : MET BLK Inst : MSVOA10
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| Sulfur dioxide | 1.227 | 5.7 | ug/L | 67074 | 1 | 5.391 | 590251 | 50.0 |
| unknown | 1.538 | 5.7 | ug/L | 66669 | 1 | 5.391 | 590251 | 50.0 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6062.D
 Acq On : 24 Sep 2018 10:35 am
 Operator : D.LIPANI
 Sample : LCS-Unp. Inst : MSVOA10
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 10:50:04 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|--------|----------------|------------|---------|--------|---------------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 231000 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 352269 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 313024 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 175141 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 113757 | 47.92 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 95.84% | | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 159305 | 51.03 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 102.06% | | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 477516 | 49.61 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 99.22% | | |
| 69) SURR2,BFB | 10.878 | 95 | 178876 | 48.36 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 96.72% | | |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 56383 | 18.28 | ug/L | 98 |
| 3) Chloromethane | 1.282 | 50 | 65680 | 19.50 | ug/L | 96 |
| 4) Vinyl Chloride | 1.361 | 62 | 60663 | 18.14 | ug/L | 99 |
| 5) Bromomethane | 1.587 | 94 | 41135 | 15.99 | ug/L | 97 |
| 6) Chloroethane | 1.666 | 64 | 34319 | 16.42 | ug/L | 94 |
| 7) Freon 21 | 1.812 | 67 | 81479 | 15.95 | ug/L | 97 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 70811 | 18.84 | ug/L | 98 |
| 9) Diethyl Ether | 2.093 | 59 | 46218 | 21.72 | ug/L | 93 |
| 10) Freon 123a | 2.099 | 67 | 51698 | 17.63 | ug/L | 93 |
| 11) Freon 123 | 2.148 | 83 | 73177 | 22.48 | ug/L | 99 |
| 12) Acrolein | 2.196 | 56 | 26429 | 38.49 | ug/L | 94 |
| 13) 1,1-Dicethene | 2.282 | 96 | 41772 | 19.62 | ug/L | 95 |
| 14) Freon 113 | 2.294 | 101 | 39169 | 18.47 | ug/L | 100 |
| 15) Acetone | 2.324 | 43 | 29731 | 21.88 | ug/L | 93 |
| 16) 2-Propanol | 2.459 | 45 | 104419 | 397.39 | ug/L | 99 |
| 17) Iodomethane | 2.416 | 142 | 57332 | 22.86 | ug/L | 99 |
| 18) Carbon Disulfide | 2.477 | 76 | 120944 | 20.83 | ug/L | 98 |
| 19) Acetonitrile | 2.581 | 41 | 66280 | 134.17 | ug/L | 97 |
| 20) Allyl Chloride | 2.617 | 76 | 24920 | 24.01 | ug/L # | 85 |
| 21) Methyl Acetate | 2.641 | 43 | 61445 | 22.69 | ug/L | 94 |
| 22) Methylene Chloride | 2.733 | 84 | 48391 | 19.48 | ug/L | 93 |
| 23) TBA | 2.867 | 59 | 152489 | 387.41 | ug/L | 89 |
| 24) Acrylonitrile | 2.989 | 53 | 153005 | 113.89 | ug/L | 100 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 155818 | 19.73 | ug/L | 100 |
| 26) trans-1,2-Dichloroethene | 3.026 | 96 | 42796 | 18.79 | ug/L | 91 |
| 27) 1,1-Dicethane | 3.525 | 63 | 93360 | 20.92 | ug/L | 99 |
| 28) Vinyl Acetate | 3.623 | 86 | 10491 | 20.42 | ug/L # | 49 |
| 29) DIPE | 3.660 | 45 | 190033 | 23.00 | ug/L | 97 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 81038 | 21.12 | ug/L | 93 |
| 31) ETBE | 4.184 | 59 | 137256 | 18.34 | ug/L | 96 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 57284 | 16.84 | ug/L | 95 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 49835 | 19.64 | ug/L | 97 |
| 34) 2-Butanone | 4.416 | 43 | 43920 | 23.91 | ug/L | 85 |
| 35) Propionitrile | 4.495 | 54 | 59898 | 110.05 | ug/L | 93 |
| 36) Bromochloromethane | 4.763 | 130 | 29720 | 18.95 | ug/L # | 83 |
| 37) Methacrylonitrile | 4.769 | 67 | 26752 | 20.43 | ug/L | 92 |
| 38) Tetrahydrofuran | 4.867 | 42 | 25542 | 22.45 | ug/L | 99 |
| 39) Chloroform | 4.946 | 83 | 84381 | 20.65 | ug/L | 98 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 64342 | 18.65 | ug/L | 97 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6062.D
Acq On : 24 Sep 2018 10:35 am
Operator : D.LIPANI
Sample : LCS-Unp.
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 10:50:04 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.336 | 41 | 51445 | 19.89 | ug/L | 98 |
| 44) Carbontetrachloride | 5.531 | 117 | 48268 | 18.56 | ug/L | 87 |
| 45) 1,1-Dichloropropene | 5.543 | 75 | 66141 | 20.09 | ug/L | 96 |
| 47) Benzene | 5.860 | 78 | 195486 | 20.82 | ug/L | 99 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 78517 | 21.02 | ug/L | 95 |
| 49) Iso-Butyl Alcohol | 5.885 | 43 | 72397 | 413.50 | ug/L | 94 |
| 50) TAME | 6.104 | 73 | 135480 | 19.63 | ug/L | 94 |
| 51) n-Heptane | 6.354 | 43 | 72906 | 22.95 | ug/L | 90 |
| 52) 1-Butanol | 6.854 | 56 | 94064 | 1074.67 | ug/L | 96 |
| 53) Trichloroethene | 6.817 | 130 | 45999 | 18.76 | ug/L | 95 |
| 54) Methylcyclohexane | 7.055 | 55 | 59857 | 19.16 | ug/L | 91 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 53464 | 20.47 | ug/L | 98 |
| 56) Dibromomethane | 7.244 | 93 | 32350 | 20.82 | ug/L | 96 |
| 57) 1,4-Dioxane | 7.305 | 88 | 19434 | 430.08 | ug/L | 96 |
| 58) Methyl Methacrylate | 7.330 | 69 | 42175 | 20.61 | ug/L | 92 |
| 59) Bromodichloromethane | 7.470 | 83 | 59123 | 20.43 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 25309 | 51.62 | ug/L | 99 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 29589 | 20.98 | ug/L | 89 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 72124 | 20.32 | ug/L | 96 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 79998 | 23.49 | ug/L | 97 |
| 65) Toluene | 8.384 | 91 | 205865 | 20.40 | ug/L | 98 |
| 66) trans-1,3-Dichloropropene | 8.653 | 75 | 62549 | 19.46 | ug/L | 99 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 70450 | 21.05 | ug/L | 94 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 44042 | 19.73 | ug/L | 94 |
| 71) Tetrachloroethene | 8.976 | 164 | 36378 | 18.69 | ug/L | 94 |
| 72) 2-Hexanone | 9.134 | 43 | 57291 | 21.70 | ug/L | 94 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 80769 | 20.24 | ug/L | 94 |
| 74) Dibromochloromethane | 9.238 | 129 | 40298 | 19.40 | ug/L | 95 |
| 75) N-Butyl Acetate | 9.293 | 43 | 105377 | 21.05 | ug/L | 95 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 46035 | 20.04 | ug/L | 100 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 61933 | 17.64 | ug/L | 96 |
| 78) Chlorobenzene | 9.829 | 112 | 125150 | 18.92 | ug/L | 93 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 55862 | 17.88 | ug/L | 98 |
| 80) 1,1,1,2-Tetrachloroethane | 9.914 | 131 | 40108 | 19.55 | ug/L | 97 |
| 81) Ethylbenzene | 9.951 | 106 | 67684 | 19.54 | ug/L # | 88 |
| 82) (m+p)Xylene | 10.061 | 106 | 168405 | 39.11 | ug/L | 97 |
| 83) o-Xylene | 10.420 | 106 | 83538 | 19.50 | ug/L | 93 |
| 84) Styrene | 10.433 | 104 | 139593 | 20.26 | ug/L | 97 |
| 85) Bromoform | 10.585 | 173 | 25850 | 21.16 | ug/L | 97 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 62887 | 18.57 | ug/L | 93 |
| 87) Isopropylbenzene | 10.756 | 105 | 211716 | 19.47 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 99056 | 190.06 | ug/L | 95 |
| 89) trans-1,4-Dichloro-2-B... | 11.061 | 53 | 13100 | 18.29 | ug/L | 86 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 69646 | 20.93 | ug/L | 97 |
| 92) Bromobenzene | 11.000 | 156 | 53912 | 18.40 | ug/L # | 81 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 20439 | 19.92 | ug/L | 98 |
| 94) n-Propylbenzene | 11.109 | 91 | 256185 | 19.84 | ug/L | 99 |
| 95) 2-Chlorotoluene | 11.170 | 91 | 150644 | 19.34 | ug/L | 96 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 138455 | 17.99 | ug/L | 96 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 175383 | 18.88 | ug/L | 97 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 180873 | 20.16 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 152903 | 19.42 | ug/L | 100 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 181001 | 20.26 | ug/L | 97 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 50931 | 17.74 | ug/L | 90 |
| 102) sec-Butylbenzene | 11.719 | 105 | 225497 | 19.81 | ug/L | 98 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 194488 | 20.02 | ug/L | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6062.D
 Acq On : 24 Sep 2018 10:35 am
 Operator : D.LIPANI
 Sample : LCS-Unp. Inst : MSVOA10
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 10:50:04 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

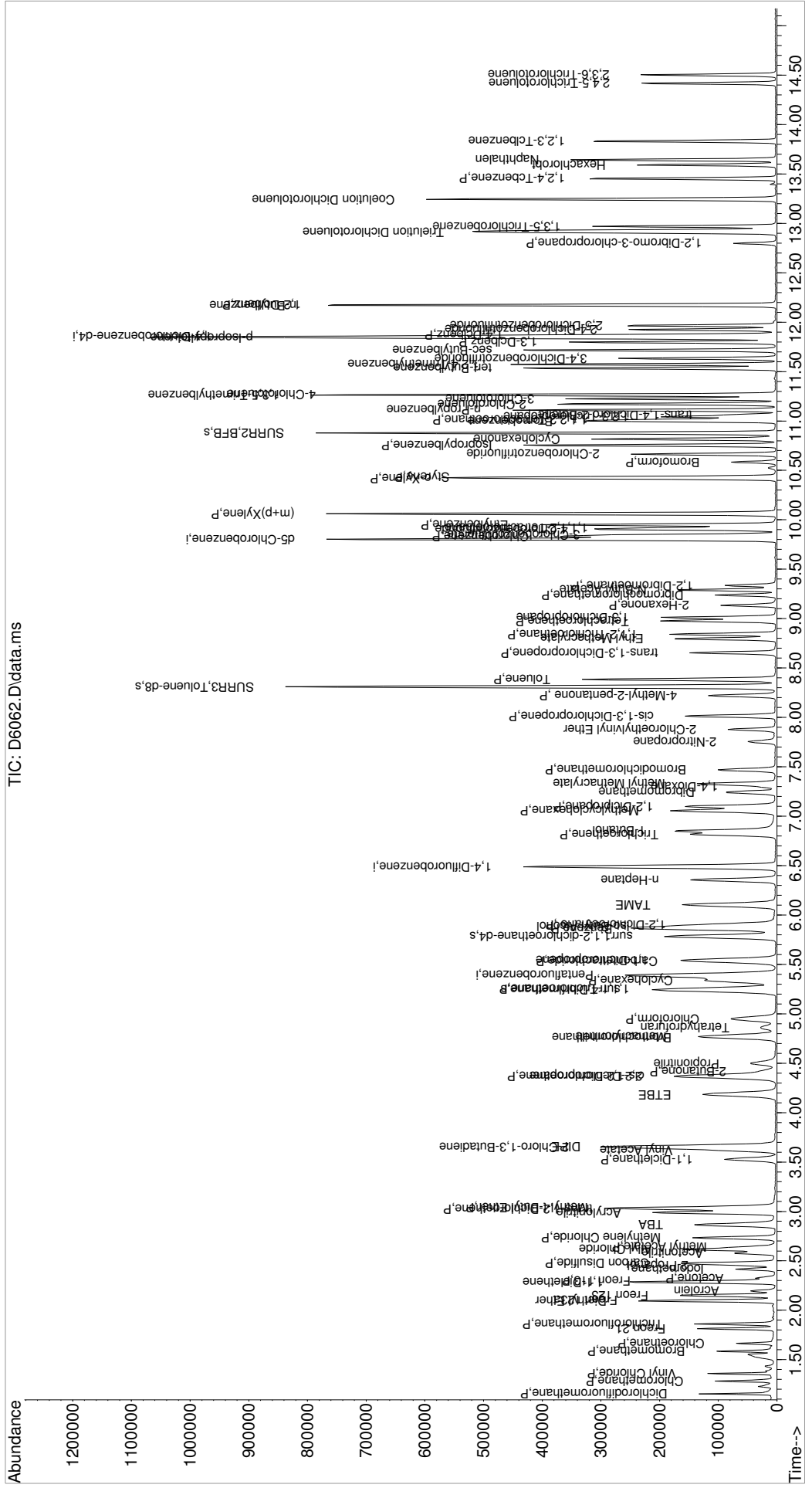
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 101878 | 18.91 | ug/L | 99 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 104745 | 18.41 | ug/L | 99 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 46667 | 18.23 | ug/L | 97 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 52867 | 17.88 | ug/L | 97 |
| 108) n-Butylbenzene | 12.170 | 91 | 190418 | 20.50 | ug/L | 98 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 102537 | 18.76 | ug/L | 100 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 10953 | 16.07 | ug/L | 83 |
| 111) Trielution Dichlorotol... | 12.914 | 125 | 234845 | 52.62 | ug/L | 98 |
| 112) 1,3,5-Trichlorobenzene | 12.969 | 180 | 70403 | 17.77 | ug/L | 98 |
| 113) Coelution Dichlorotoluene | 13.243 | 125 | 174388 | 35.39 | ug/L | 94 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 73414 | 18.90 | ug/L | 98 |
| 115) Hexachlorobt | 13.591 | 225 | 33764 | 19.88 | ug/L | 99 |
| 116) Naphthalen | 13.645 | 128 | 203292 | 20.18 | ug/L | 99 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 72258 | 18.91 | ug/L | 99 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 45491 | 18.76 | ug/L | 97 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 42201 | 18.48 | ug/L | 93 |

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

Data Path : I:\ACQDATA\msvoa10\data\092418\
 Data File : D6062.D
 Acq On : 24 Sep 2018 10:35 am
 Operator : D.LIPANI
 Sample : LCS-Unp.
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 10:50:04 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6101.D
Acq On : 25 Sep 2018 11:48 am
Operator : D.LIPANI
Sample : LCS-Unp.
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 12:02:38 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|------------|---------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 224537 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 339718 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 296166 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 161335 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 109638 | 47.89 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery = | 95.78% | | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 157745 | 52.39 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery = | 104.78% | | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 443475 | 47.78 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery = | 95.56% | | |
| 69) SURR2,BFB | 10.878 | 95 | 166246 | 46.60 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery = | 93.20% | | |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 56943 | 18.99 | ug/L | 99 |
| 3) Chloromethane | 1.282 | 50 | 66765 | 20.39 | ug/L | 96 |
| 4) Vinyl Chloride | 1.361 | 62 | 60210 | 18.52 | ug/L | 98 |
| 5) Bromomethane | 1.587 | 94 | 35691 | 14.30 | ug/L | 93 |
| 6) Chloroethane | 1.666 | 64 | 34373 | 16.92 | ug/L | 97 |
| 7) Freon 21 | 1.812 | 67 | 83641 | 16.84 | ug/L | 99 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 69606 | 19.05 | ug/L | 100 |
| 9) Diethyl Ether | 2.093 | 59 | 44355 | 21.44 | ug/L | 97 |
| 10) Freon 123a | 2.099 | 67 | 53982 | 18.94 | ug/L | 91 |
| 11) Freon 123 | 2.148 | 83 | 75859 | 23.98 | ug/L | 92 |
| 12) Acrolein | 2.196 | 56 | 24885 | 37.28 | ug/L | 95 |
| 13) 1,1-Dicethene | 2.288 | 96 | 40819 | 19.72 | ug/L | 93 |
| 14) Freon 113 | 2.288 | 101 | 39758 | 19.28 | ug/L | 96 |
| 15) Acetone | 2.330 | 43 | 30779 | 23.30 | ug/L | 93 |
| 16) 2-Propanol | 2.458 | 45 | 103387 | 404.79 | ug/L | 91 |
| 17) Iodomethane | 2.416 | 142 | 50449 | 20.95 | ug/L | 97 |
| 18) Carbon Disulfide | 2.477 | 76 | 115684 | 20.50 | ug/L | 97 |
| 19) Acetonitrile | 2.574 | 41 | 58231 | 121.27 | ug/L | 95 |
| 20) Allyl Chloride | 2.617 | 76 | 24297 | 24.08 | ug/L # | 90 |
| 21) Methyl Acetate | 2.641 | 43 | 61273 | 23.28 | ug/L | 99 |
| 22) Methylene Chloride | 2.733 | 84 | 48389 | 20.04 | ug/L # | 87 |
| 23) TBA | 2.861 | 59 | 147391 | 385.24 | ug/L | 93 |
| 24) Acrylonitrile | 2.989 | 53 | 149300 | 114.34 | ug/L | 98 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 148527 | 19.35 | ug/L | 99 |
| 26) trans-1,2-Dichloroethene | 3.031 | 96 | 44441 | 20.08 | ug/L | 95 |
| 27) 1,1-Dicethane | 3.525 | 63 | 92927 | 21.42 | ug/L | 99 |
| 28) Vinyl Acetate | 3.617 | 86 | 9935 | 19.89 | ug/L # | 61 |
| 29) DIPE | 3.659 | 45 | 196072 | 24.41 | ug/L | 95 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 78286 | 20.99 | ug/L | 96 |
| 31) ETBE | 4.184 | 59 | 141618 | 19.47 | ug/L | 97 |
| 32) 2,2-Dichloropropane | 4.360 | 77 | 55223 | 16.70 | ug/L | 97 |
| 33) cis-1,2-Dichloroethene | 4.367 | 96 | 49152 | 19.93 | ug/L | 96 |
| 34) 2-Butanone | 4.415 | 43 | 40923 | 22.92 | ug/L | 86 |
| 35) Propionitrile | 4.501 | 54 | 57296 | 108.30 | ug/L | 99 |
| 36) Bromochloromethane | 4.769 | 130 | 28368 | 18.61 | ug/L # | 80 |
| 37) Methacrylonitrile | 4.769 | 67 | 25809 | 20.27 | ug/L # | 82 |
| 38) Tetrahydrofuran | 4.866 | 42 | 25920 | 23.43 | ug/L | 86 |
| 39) Chloroform | 4.946 | 83 | 83918 | 21.13 | ug/L | 97 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 65675 | 19.58 | ug/L | 92 |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6101.D
Acq On : 25 Sep 2018 11:48 am
Operator : D.LIPANI
Sample : LCS-Unp.
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 12:02:38 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.336 | 41 | 57780 | 23.16 | ug/L | 98 |
| 44) Carbontetrachloride | 5.531 | 117 | 47480 | 18.94 | ug/L | 95 |
| 45) 1,1-Dichloropropene | 5.549 | 75 | 64757 | 20.39 | ug/L | 96 |
| 47) Benzene | 5.866 | 78 | 190581 | 21.05 | ug/L | 93 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 77157 | 21.42 | ug/L | 94 |
| 49) Iso-Butyl Alcohol | 5.885 | 43 | 74134 | 439.06 | ug/L | 95 |
| 50) TAME | 6.104 | 73 | 133709 | 20.09 | ug/L | 92 |
| 51) n-Heptane | 6.360 | 43 | 80736 | 26.35 | ug/L | 85 |
| 52) 1-Butanol | 6.854 | 56 | 89546 | 1061.79 | ug/L | 97 |
| 53) Trichloroethene | 6.817 | 130 | 45999 | 19.45 | ug/L | 94 |
| 54) Methylcyclohexane | 7.055 | 55 | 63732 | 21.16 | ug/L | 93 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 53118 | 21.09 | ug/L | 98 |
| 56) Dibromomethane | 7.238 | 93 | 31569 | 21.07 | ug/L | 86 |
| 57) 1,4-Dioxane | 7.305 | 88 | 17793 | 408.31 | ug/L | 100 |
| 58) Methyl Methacrylate | 7.329 | 69 | 41358 | 20.96 | ug/L | 89 |
| 59) Bromodichloromethane | 7.470 | 83 | 56796 | 20.35 | ug/L | 98 |
| 60) 2-Nitropropane | 7.750 | 41 | 24692 | 52.22 | ug/L | 93 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 28704 | 21.10 | ug/L | 91 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 69714 | 20.36 | ug/L | 97 |
| 63) 4-Methyl-2-pentanone | 8.219 | 43 | 77109 | 23.48 | ug/L | 89 |
| 65) Toluene | 8.384 | 91 | 198318 | 20.37 | ug/L | 96 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 58002 | 18.71 | ug/L | 94 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 70266 | 21.77 | ug/L | 96 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 41819 | 19.43 | ug/L | 98 |
| 71) Tetrachloroethene | 8.975 | 164 | 37438 | 20.33 | ug/L | 99 |
| 72) 2-Hexanone | 9.134 | 43 | 53979 | 21.61 | ug/L | 92 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 82425 | 21.83 | ug/L | 95 |
| 74) Dibromochloromethane | 9.238 | 129 | 38264 | 19.47 | ug/L | 93 |
| 75) N-Butyl Acetate | 9.292 | 43 | 105647 | 22.31 | ug/L | 95 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 43562 | 20.04 | ug/L | 99 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 66929 | 20.15 | ug/L | 98 |
| 78) Chlorobenzene | 9.829 | 112 | 122486 | 19.57 | ug/L | 96 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 59203 | 20.03 | ug/L | 99 |
| 80) 1,1,1,2-Tetrachloroethane | 9.914 | 131 | 37962 | 19.56 | ug/L | 92 |
| 81) Ethylbenzene | 9.951 | 106 | 66305 | 20.23 | ug/L | 91 |
| 82) (m+p)Xylene | 10.061 | 106 | 164597 | 40.40 | ug/L | 97 |
| 83) o-Xylene | 10.420 | 106 | 80180 | 19.79 | ug/L | 100 |
| 84) Styrene | 10.432 | 104 | 135144 | 20.73 | ug/L | 93 |
| 85) Bromoform | 10.585 | 173 | 24807 | 21.44 | ug/L | 86 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 62591 | 19.54 | ug/L | 93 |
| 87) Isopropylbenzene | 10.756 | 105 | 206291 | 20.05 | ug/L | 98 |
| 88) Cyclohexanone | 10.817 | 55 | 122095 | 247.60 | ug/L | 97 |
| 89) trans-1,4-Dichloro-2-B... | 11.060 | 53 | 12210 | 18.04 | ug/L # | 70 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 65072 | 21.23 | ug/L | 98 |
| 92) Bromobenzene | 10.999 | 156 | 53866 | 19.96 | ug/L # | 89 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 19539 | 20.68 | ug/L | 93 |
| 94) n-Propylbenzene | 11.109 | 91 | 263927 | 22.18 | ug/L | 96 |
| 95) 2-Chlorotoluene | 11.170 | 91 | 148934 | 20.76 | ug/L | 97 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 147935 | 20.87 | ug/L | 97 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 174563 | 20.40 | ug/L | 97 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 172385 | 20.85 | ug/L | 96 |
| 99) tert-Butylbenzene | 11.536 | 119 | 151400 | 20.87 | ug/L | 100 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 178757 | 21.72 | ug/L | 99 |
| 101) 3,4-Dichlorobenzotrifl... | 11.633 | 214 | 55148 | 20.86 | ug/L | 93 |
| 102) sec-Butylbenzene | 11.719 | 105 | 229841 | 21.92 | ug/L | 99 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 192883 | 21.55 | ug/L | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6101.D
 Acq On : 25 Sep 2018 11:48 am
 Operator : D.LIPANI
 Sample : LCS-Unp. Inst : MSVOA10
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 12:02:38 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

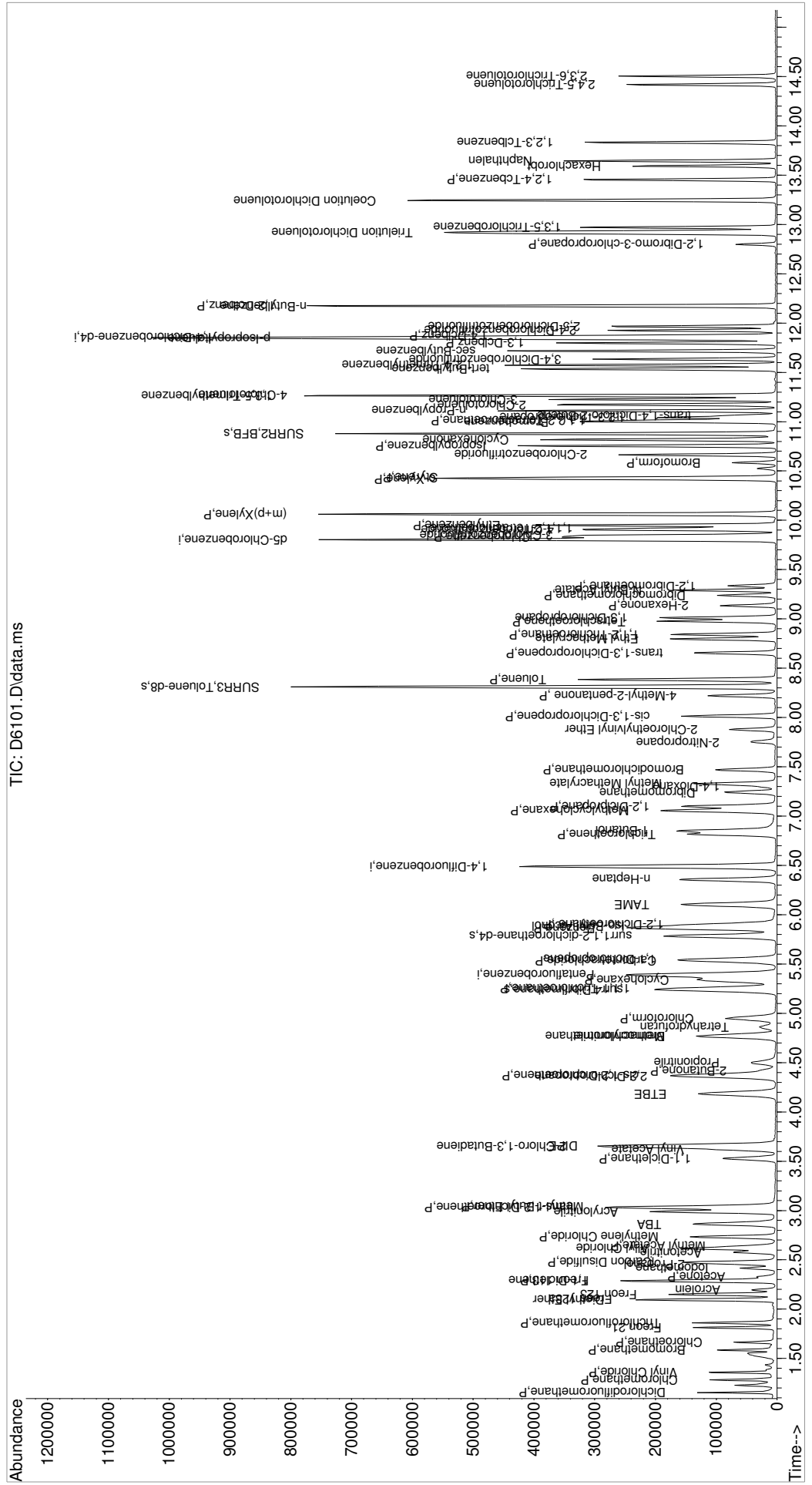
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 98594 | 19.87 | ug/L | 97 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 102962 | 19.65 | ug/L | 99 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 50576 | 21.45 | ug/L | 96 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 56432 | 20.72 | ug/L | 98 |
| 108) n-Butylbenzene | 12.170 | 91 | 189506 | 22.15 | ug/L | 96 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 95136 | 18.89 | ug/L | 96 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 10882 | 17.33 | ug/L | 95 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 250124 | 60.84 | ug/L | 98 |
| 112) 1,3,5-Trichlorobenzene | 12.975 | 180 | 72830 | 19.95 | ug/L | 94 |
| 113) Coelution Dichlorotoluene | 13.243 | 125 | 179212 | 39.48 | ug/L | 94 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 73468 | 20.53 | ug/L | 93 |
| 115) Hexachlorobt | 13.590 | 225 | 31776 | 20.31 | ug/L | 94 |
| 116) Naphthalen | 13.645 | 128 | 194335 | 20.94 | ug/L | 98 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 70747 | 20.10 | ug/L | 99 |
| 118) 2,4,5-Trichlorotoluene | 14.419 | 159 | 45776 | 20.49 | ug/L | 99 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 43774 | 20.81 | ug/L | 97 |

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

Data Path : I:\ACQDATA\msvoa10\data\092518\
 Data File : D6101.D
 Acq On : 25 Sep 2018 11:48 am
 Operator : D.LIPANI
 Sample : LCS-Unp.
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

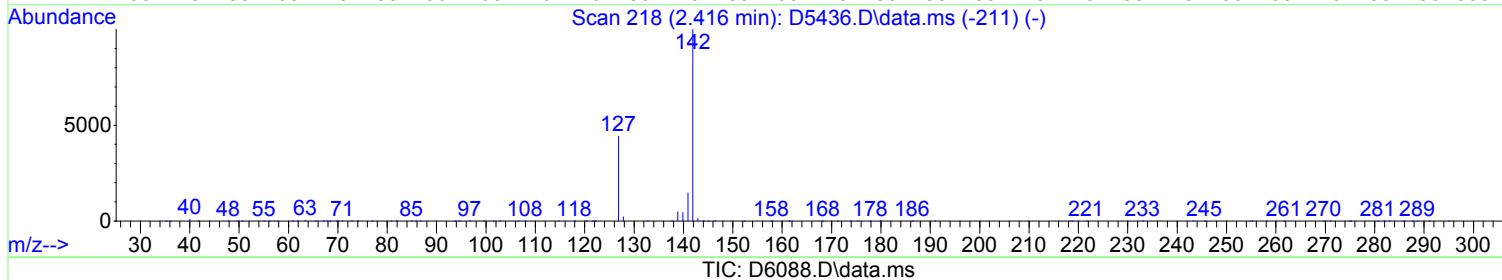
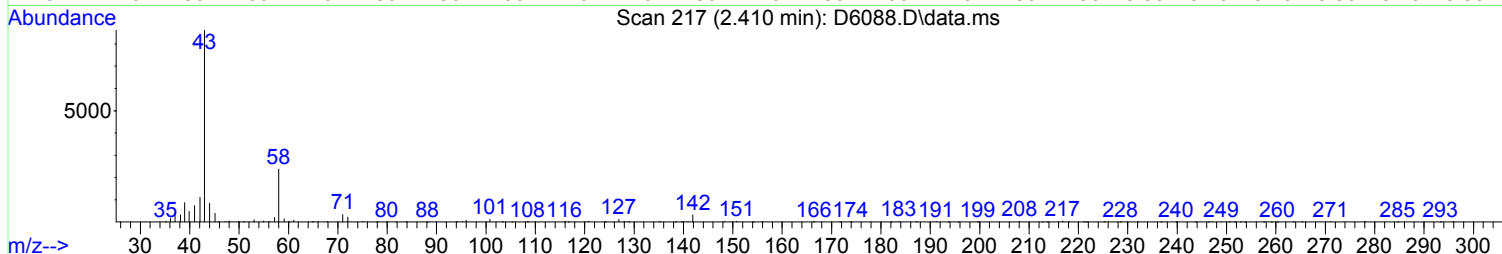
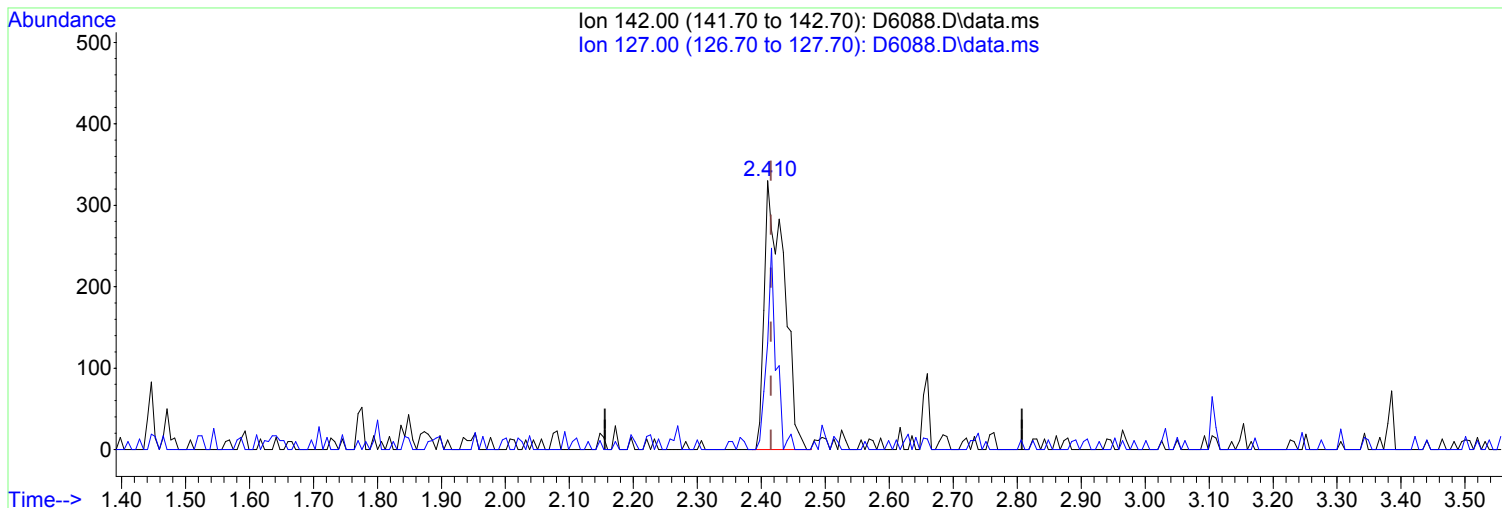
Inst : MSVOA10

Quant Time: Sep 25 12:02:38 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6088.D
Acq On : 24 Sep 2018 8:36 pm
Operator : D.LIPANI
Sample : R1809120-005MS|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 20:50:57 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

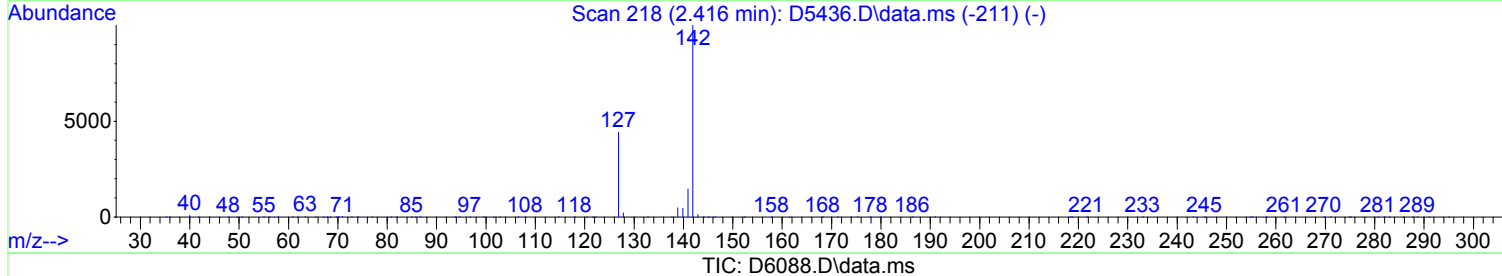
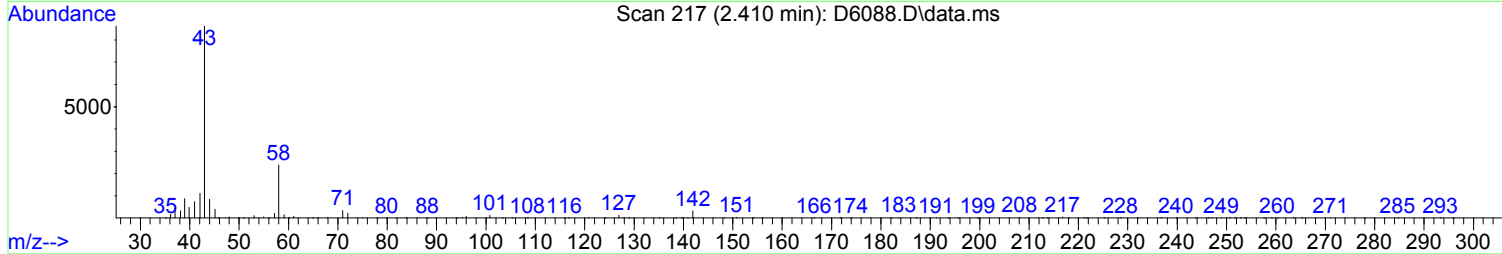
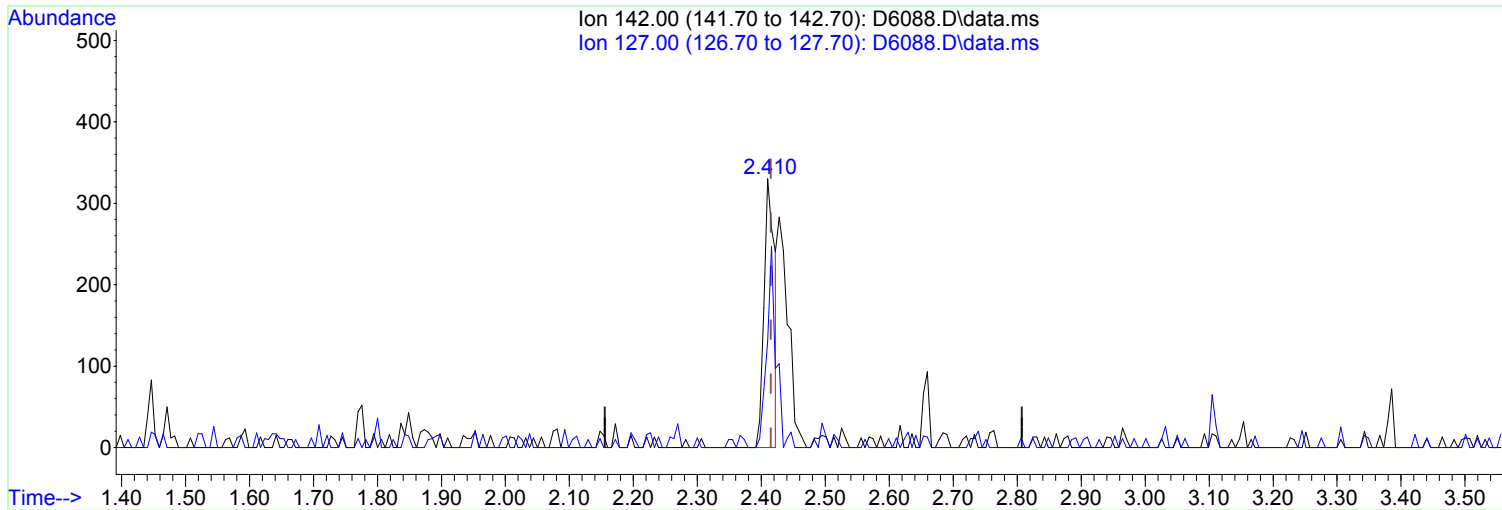


(17) Iodomethane
2.410min (-0.006) 2.04 ug/L m
response 705
Ion Exp% Act%
142.00 100 100
127.00 44.30 39.70
0.00 0.00 0.00
0.00 0.00 0.00

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6088.D
Acq On : 24 Sep 2018 8:36 pm
Operator : D.LIPANI
Sample : R1809120-005MS|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 20:50:57 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

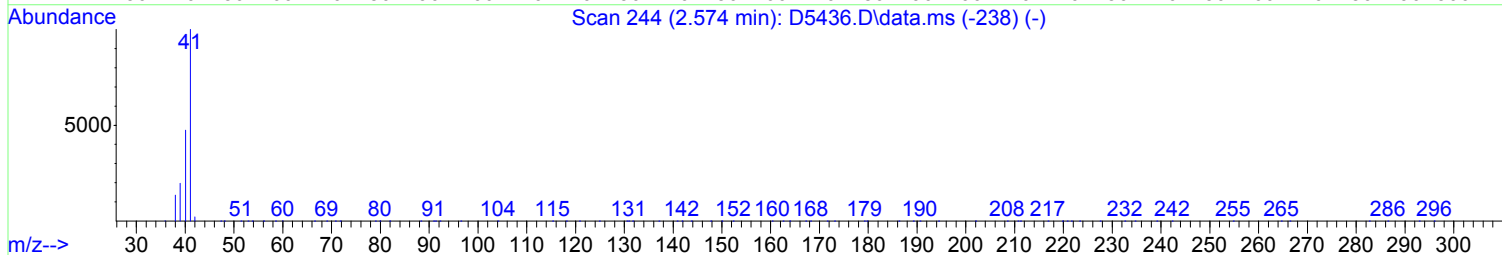
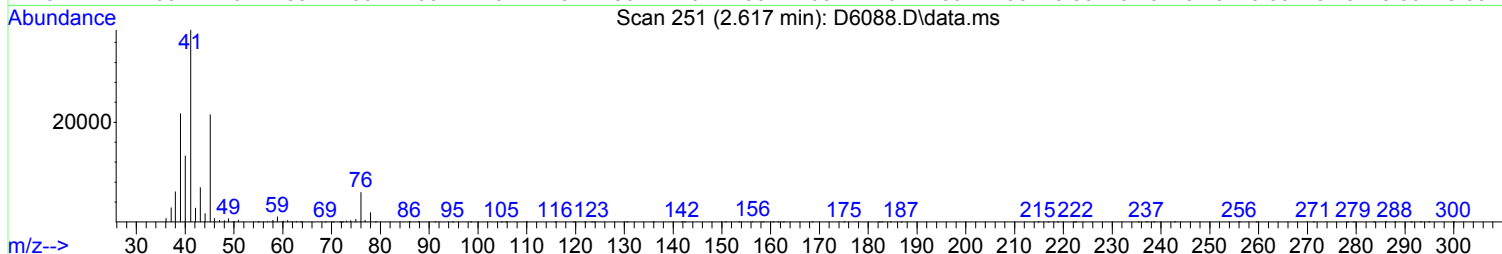
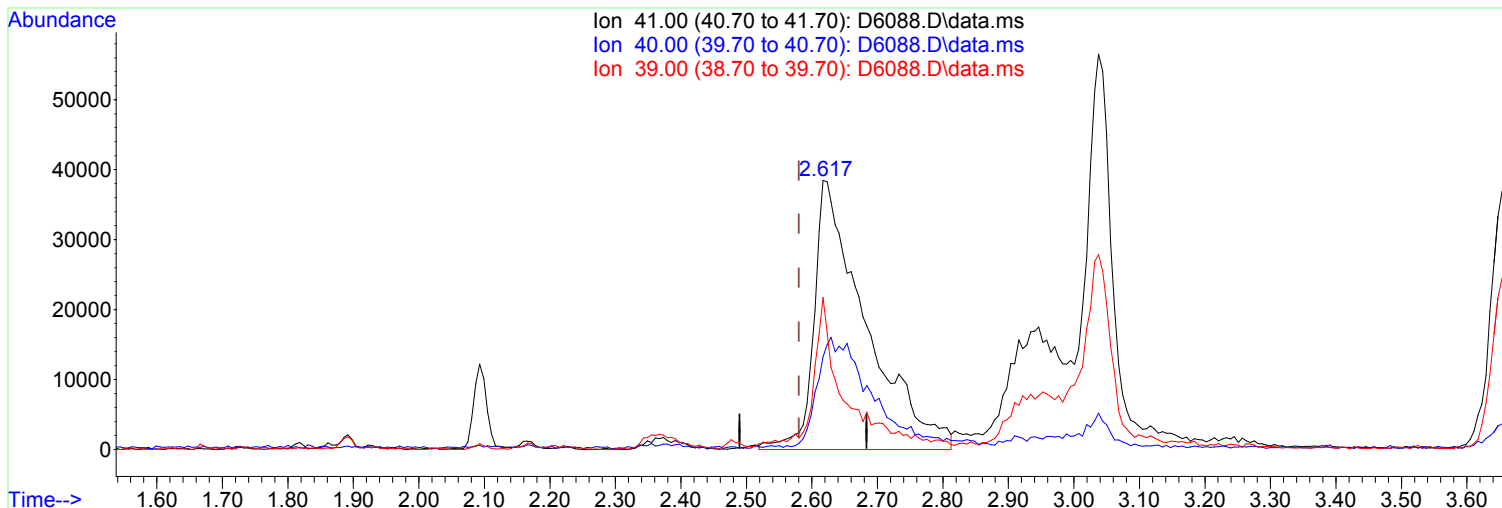


(17) Iodomethane
2.410min (-0.006) 1.91 ug/L
response 382
Ion Exp% Act%
142.00 100 100
127.00 44.30 39.70
0.00 0.00 0.00
0.00 0.00 0.00

Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6088.D
Acq On : 24 Sep 2018 8:36 pm
Operator : D.LIPANI
Sample : R1809120-005MS|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 20:50:57 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(19) Acetonitrile

2.617min (+0.037) 444.01 ug/L m

response 211149

| Ion | Exp% | Act% |
|-------|-------|--------|
| 41.00 | 100 | 100 |
| 40.00 | 49.60 | 34.49 |
| 39.00 | 20.20 | 56.45# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

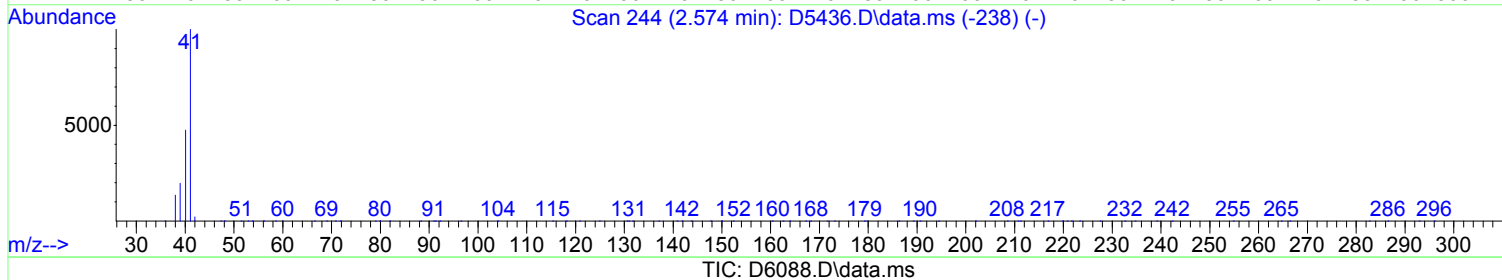
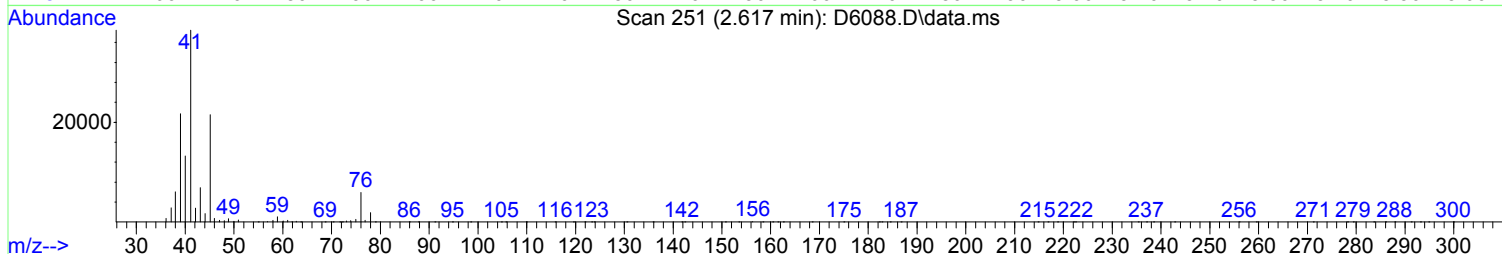
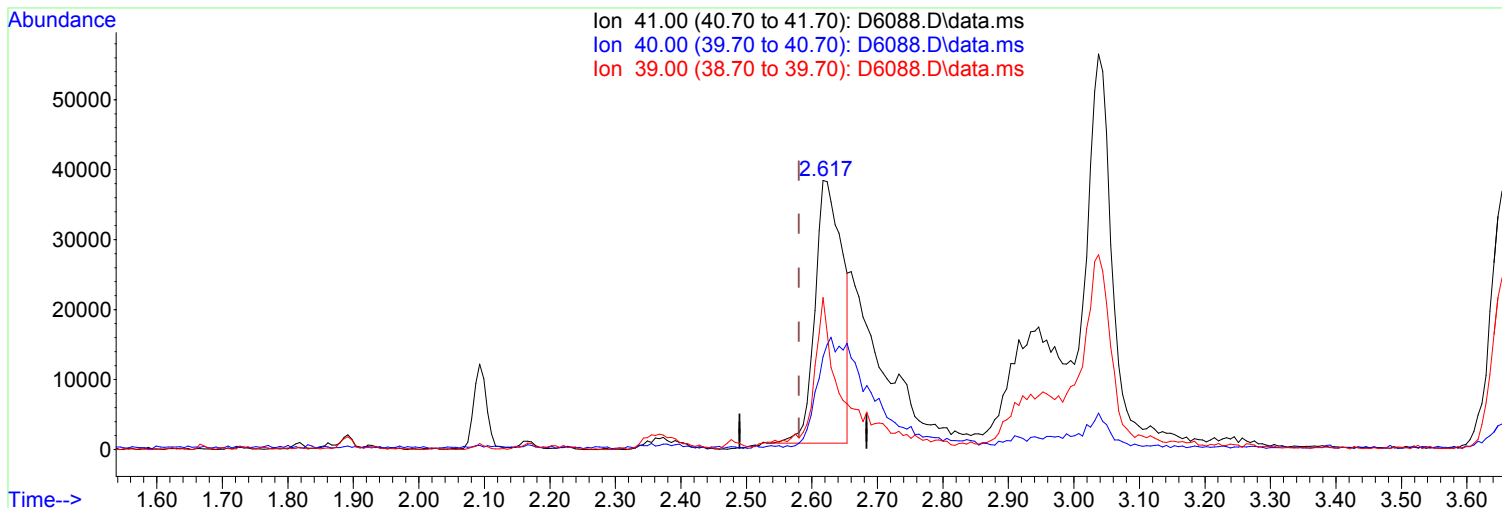
After

Poor integration.

09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6088.D
Acq On : 24 Sep 2018 8:36 pm
Operator : D.LIPANI
Sample : R1809120-005MS|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 20:50:57 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(19) Acetonitrile

2.617min (+0.037) 227.96 ug/L

response 108407

| Ion | Exp% | Act% |
|-------|-------|--------|
| 41.00 | 100 | 100 |
| 40.00 | 49.60 | 34.49 |
| 39.00 | 20.20 | 56.45# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
Before
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6088.D
 Acq On : 24 Sep 2018 8:36 pm
 Operator : D.LIPANI
 Sample : R1809120-005MS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 15:36:50 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|------------------------------------|--------|----------|----------|-----------|-------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 222379 | 50.00 | ug/L | 0.00 | |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 338596 | 50.00 | ug/L | 0.00 | |
| 70) d5-Chlorobenzene | 9.805 | 117 | 300725 | 50.00 | ug/L | 0.00 | |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 170846 | 50.00 | ug/L | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 43) surr4,Dibrflmethane | 5.239 | 113 | 111200 | 48.73 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 89 | - 119 | Recovery | = | 97.46% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 157397 | 52.45 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 73 | - 125 | Recovery | = | 104.90% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 450536 | 48.70 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 87 | - 121 | Recovery | = | 97.40% | |
| 69) SURR2,BFB | 10.878 | 95 | 175722 | 49.42 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 85 | - 122 | Recovery | = | 98.84% | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 140476 | 47.31 | ug/L | | 97 |
| 3) Chloromethane | 1.282 | 50 | 105464 | 32.52 | ug/L | | 94 |
| 4) Vinyl Chloride | 1.361 | 62 | 149159 | 46.34 | ug/L | | 85 |
| 5) Bromomethane | 1.605 | 94 | 1166 | Below Cal | # | | 58 |
| 6) Chloroethane | 1.672 | 64 | 136873 | 68.03 | ug/L | | 99 |
| 7) Freon 21 | 1.812 | 67 | 277773 | 56.48 | ug/L | | 99 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 212562 | 58.74 | ug/L | | 99 |
| 9) Diethyl Ether | 2.093 | 59 | 113666 | 55.49 | ug/L | | 95 |
| 10) Freon 123a | 2.099 | 67 | 150826 | 53.42 | ug/L | | 94 |
| 11) Freon 123 | 2.148 | 83 | 203419 | 64.92 | ug/L | | 99 |
| 12) Acrolein | 2.203 | 56 | 8893 | 13.45 | ug/L | | 98 |
| 13) 1,1-Dicethene | 2.282 | 96 | 98734 | 48.17 | ug/L | | 96 |
| 14) Freon 113 | 2.288 | 101 | 98296 | 48.14 | ug/L | | 99 |
| 15) Acetone | 2.355 | 43 | 134157 | 102.55 | ug/L | | 91 |
| 17) Iodomethane | 2.410 | 142 | 705m | 2.04 | ug/L | | |
| 18) Carbon Disulfide | 2.477 | 76 | 310397 | 55.53 | ug/L | | 99 |
| 19) Acetonitrile | 2.617 | 41 | 211149m | 444.01 | ug/L | | |
| 20) Allyl Chloride | 2.617 | 76 | 9056 | 9.06 | ug/L | # | 1 |
| 21) Methyl Acetate | 2.648 | 43 | 162274 | 62.24 | ug/L | | 96 |
| 22) Methylene Chloride | 2.733 | 84 | 113942 | 47.65 | ug/L | # | 87 |
| 23) TBA | 2.952 | 59 | 391623 | 1033.53 | ug/L | | 91 |
| 24) Acrylonitrile | 3.001 | 53 | 382083 | 295.44 | ug/L | | 99 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 392811 | 51.66 | ug/L | | 98 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 111050 | 50.66 | ug/L | | 93 |
| 27) 1,1-Dicethane | 3.525 | 63 | 258723 | 60.22 | ug/L | | 100 |
| 28) Vinyl Acetate | 3.623 | 86 | 26294 | 53.16 | ug/L | # | 31 |
| 29) DIPE | 3.660 | 45 | 508694 | 63.94 | ug/L | | 95 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 188818 | 51.13 | ug/L | | 89 |
| 31) ETBE | 4.190 | 59 | 351772 | 48.83 | ug/L | | 96 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 135904 | 41.50 | ug/L | | 97 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 122914 | 50.31 | ug/L | | 90 |
| 35) Propionitrile | 4.531 | 54 | 150947 | 288.08 | ug/L | | 95 |
| 36) Bromochloromethane | 4.769 | 130 | 72503 | 48.03 | ug/L | # | 84 |
| 37) Methacrylonitrile | 4.781 | 67 | 71613 | 56.80 | ug/L | # | 81 |
| 38) Tetrahydrofuran | 4.879 | 42 | 66035 | 60.28 | ug/L | | 92 |
| 39) Chloroform | 4.946 | 83 | 207293 | 52.69 | ug/L | | 97 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 164846 | 49.62 | ug/L | | 97 |
| 42) Cyclohexane | 5.336 | 41 | 152127 | 61.18 | ug/L | | 97 |
| 44) Carbontetrachloride | 5.537 | 117 | 121305 | 48.54 | ug/L | | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6088.D
 Acq On : 24 Sep 2018 8:36 pm
 Operator : D.LIPANI
 Sample : R1809120-005MS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 15:36:50 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 45) 1,1-Dichloropropene | 5.543 | 75 | 166893 | 52.73 | ug/L | 97 |
| 47) Benzene | 5.866 | 78 | 484074 | 53.64 | ug/L | 93 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 195161 | 54.35 | ug/L | 97 |
| 49) Iso-Butyl Alcohol | 5.933 | 43 | 201752 | 1198.84 | ug/L | 94 |
| 50) TAME | 6.104 | 73 | 344971 | 51.99 | ug/L | 90 |
| 51) n-Heptane | 6.354 | 43 | 176813 | 57.90 | ug/L | 89 |
| 52) 1-Butanol | 6.909 | 56 | 263802 | 2824.12 | ug/L | 94 |
| 53) Trichloroethene | 6.817 | 130 | 115200 | 48.88 | ug/L | 93 |
| 54) Methylcyclohexane | 7.055 | 55 | 184311 | 61.38 | ug/L | 89 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 140136 | 55.82 | ug/L | 95 |
| 56) Dibromomethane | 7.244 | 93 | 79180 | 53.03 | ug/L | 96 |
| 57) 1,4-Dioxane | 7.391 | 88 | 39233 | 903.30 | ug/L | 92 |
| 58) Methyl Methacrylate | 7.330 | 69 | 115584 | 58.77 | ug/L | 92 |
| 59) Bromodichloromethane | 7.470 | 83 | 145633 | 52.34 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 65988 | 140.03 | ug/L | 97 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 89273 | 65.85 | ug/L | 87 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 233856 | 71.45 | ug/L | 91 |
| 65) Toluene | 8.384 | 91 | 512260 | 52.80 | ug/L | 98 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 6235 | 2.02 | ug/L | 91 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 195495 | 60.78 | ug/L | 92 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 110448 | 51.47 | ug/L | 96 |
| 71) Tetrachloroethene | 8.976 | 164 | 88675 | 47.41 | ug/L | 97 |
| 72) 2-Hexanone | 9.134 | 43 | 180907 | 71.31 | ug/L | 94 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 203052 | 52.96 | ug/L | 92 |
| 74) Dibromochloromethane | 9.238 | 129 | 98089 | 49.15 | ug/L | 98 |
| 75) N-Butyl Acetate | 9.293 | 43 | 331221 | 68.88 | ug/L | 95 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 108487 | 49.16 | ug/L | 95 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 171775 | 50.92 | ug/L | 100 |
| 78) Chlorobenzene | 9.829 | 112 | 309628 | 48.72 | ug/L | 95 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 153448 | 51.12 | ug/L | 98 |
| 80) 1,1,1,2-Tetrachloroethane | 9.921 | 131 | 100302 | 50.89 | ug/L | 93 |
| 81) Ethylbenzene | 9.951 | 106 | 171070 | 51.40 | ug/L | 91 |
| 82) (m+p)Xylene | 10.061 | 106 | 424212 | 102.54 | ug/L | 97 |
| 83) o-Xylene | 10.420 | 106 | 205184 | 49.87 | ug/L | 97 |
| 84) Styrene | 10.433 | 104 | 347808 | 52.54 | ug/L | 98 |
| 85) Bromoform | 10.585 | 173 | 67201 | 51.04 | ug/L | 91 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 171726 | 52.79 | ug/L | 97 |
| 87) Isopropylbenzene | 10.756 | 105 | 530861 | 50.82 | ug/L | 100 |
| 88) Cyclohexanone | 10.829 | 55 | 690326 | 1378.69 | ug/L | 96 |
| 89) trans-1,4-Dichloro-2-B... | 11.109 | 53 | 3938 | 6.15 | ug/L # | 1 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 180801 | 55.69 | ug/L | 95 |
| 92) Bromobenzene | 11.000 | 156 | 138682 | 48.53 | ug/L | 92 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 53721 | 53.68 | ug/L | 92 |
| 94) n-Propylbenzene | 11.109 | 91 | 644506 | 51.16 | ug/L | 98 |
| 95) 2-Chlorotoluene | 11.170 | 91 | 381100 | 50.16 | ug/L | 97 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 386706 | 51.52 | ug/L | 99 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 447651 | 49.40 | ug/L | 97 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 442539 | 50.56 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 373402 | 48.61 | ug/L | 96 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 444402 | 50.99 | ug/L | 97 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 143096 | 51.11 | ug/L | 93 |
| 102) sec-Butylbenzene | 11.719 | 105 | 548760 | 49.42 | ug/L | 100 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 457852 | 48.31 | ug/L | 99 |
| 104) 1,3-Dclbenz | 11.798 | 146 | 252022 | 47.95 | ug/L | 98 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 257228 | 46.35 | ug/L | 99 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 131261 | 52.57 | ug/L | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6088.D
 Acq On : 24 Sep 2018 8:36 pm
 Operator : D.LIPANI
 Sample : R1809120-005MS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 15:36:50 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

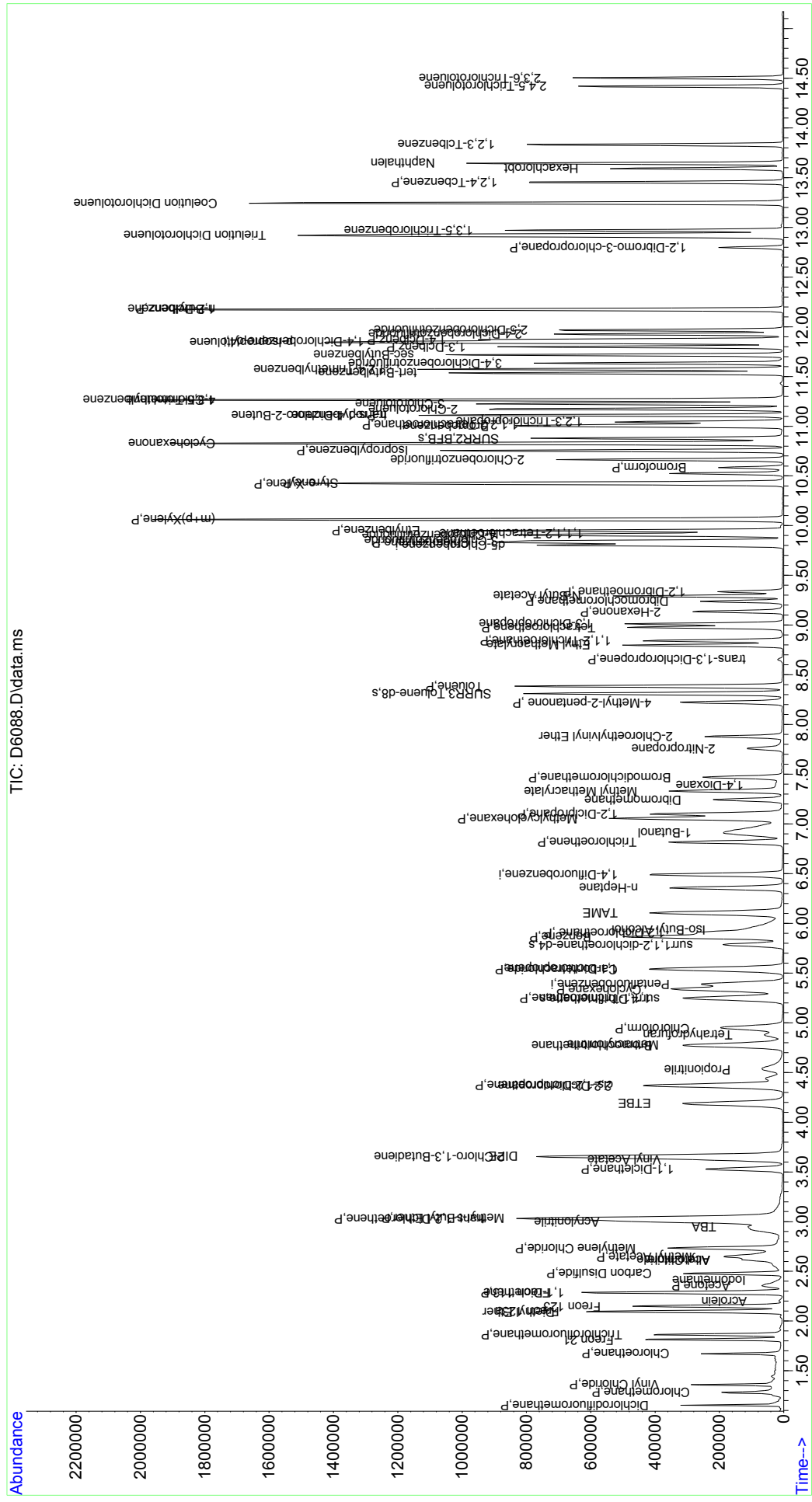
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 148369 | 51.44 | ug/L | 97 |
| 108) n-Butylbenzene | 12.176 | 91 | 445665 | 49.18 | ug/L | 97 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 251317 | 47.14 | ug/L | 98 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 32227 | 48.47 | ug/L | 94 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 671555 | 154.26 | ug/L | 97 |
| 112) 1,3,5-Trichlorobenzene | 12.969 | 180 | 195028 | 50.46 | ug/L | 97 |
| 113) Coelution Dichlorotoluene | 13.243 | 125 | 483501 | 100.59 | ug/L | 95 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 184871 | 48.78 | ug/L | 99 |
| 115) Hexachlorobt | 13.591 | 225 | 75092 | 45.32 | ug/L | 95 |
| 116) Naphthalen | 13.645 | 128 | 559499 | 56.94 | ug/L | 99 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 184359 | 49.47 | ug/L | 95 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 122782 | 51.90 | ug/L | 100 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 112952 | 50.71 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\092418\
 Data File : D6088.D
 Acq On : 24 Sep 2018 8:36 pm
 Operator : D.LIPANI
 Sample : R1809120-005MS|1.0
 Misc : Verina 7979 T4
 ALS Vial : 32 Sample Multiplier: 1
 Inst : MSVOA10

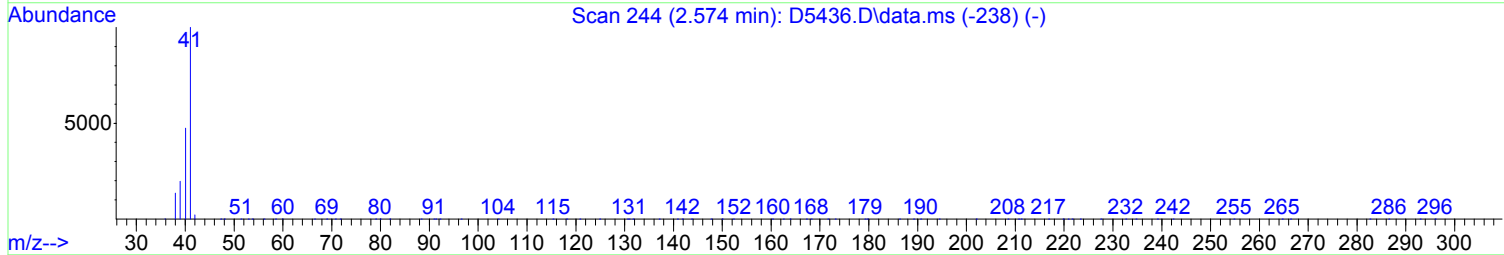
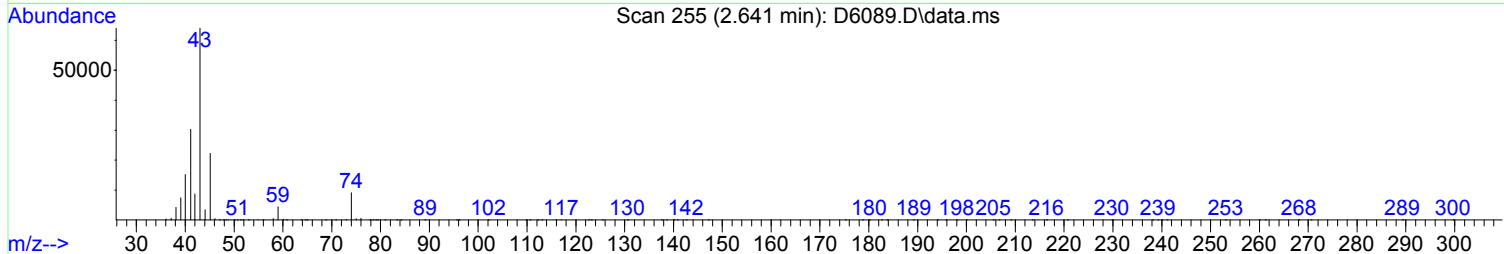
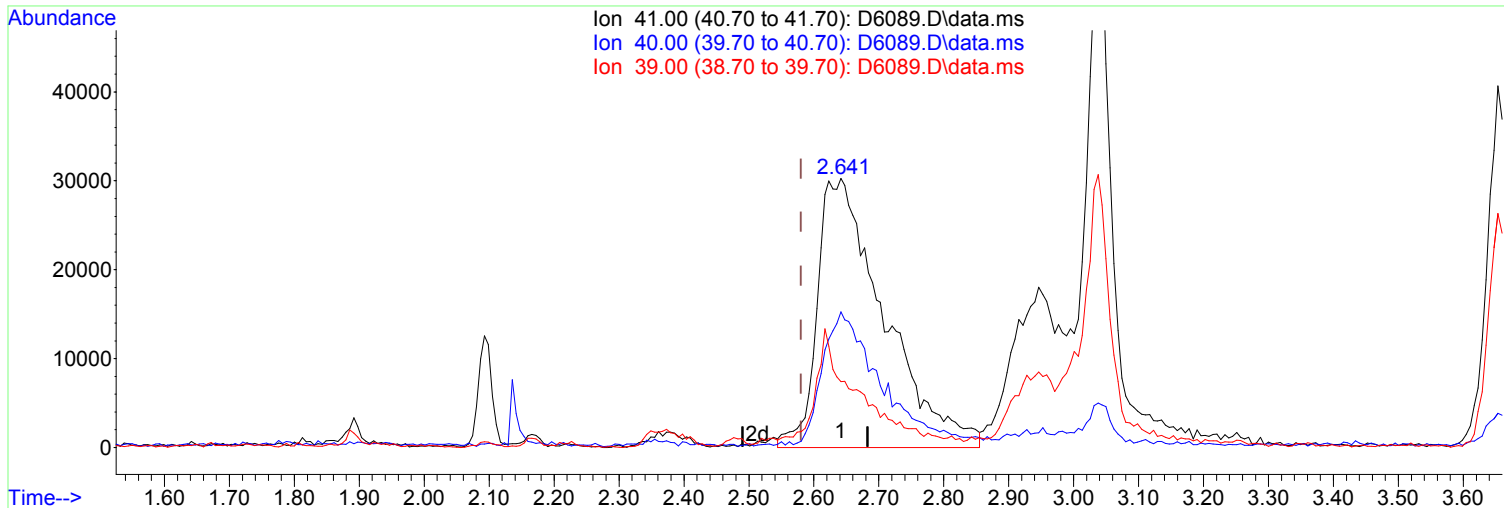
Quant Time: Sep 27 15:36:50 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6089.D
Acq On : 24 Sep 2018 8:57 pm
Operator : D.LIPANI
Sample : R1809120-005DMS|1.0
Misc : Verina 7979 T4
ALS Vial : 33 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 21:12:44 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(19) Acetonitrile

2.641min (+0.061) 426.11 ug/L m

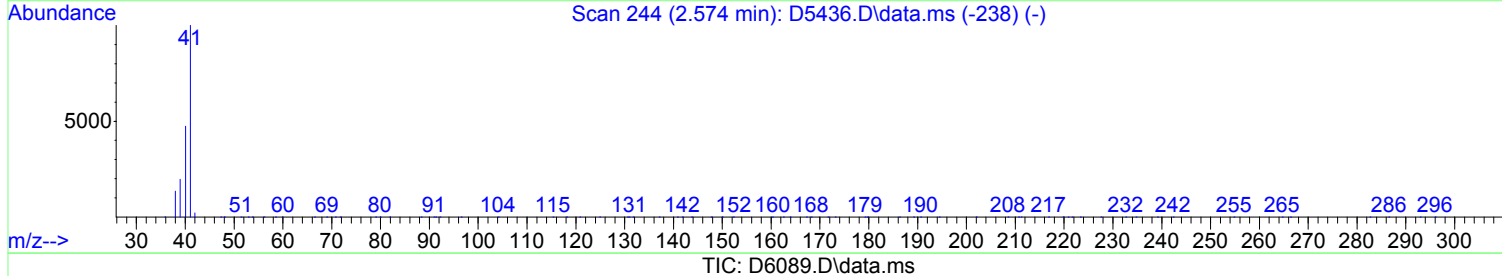
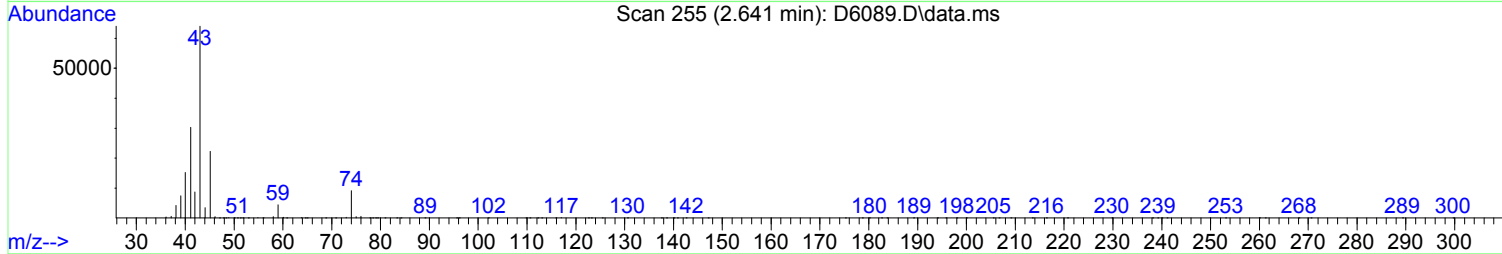
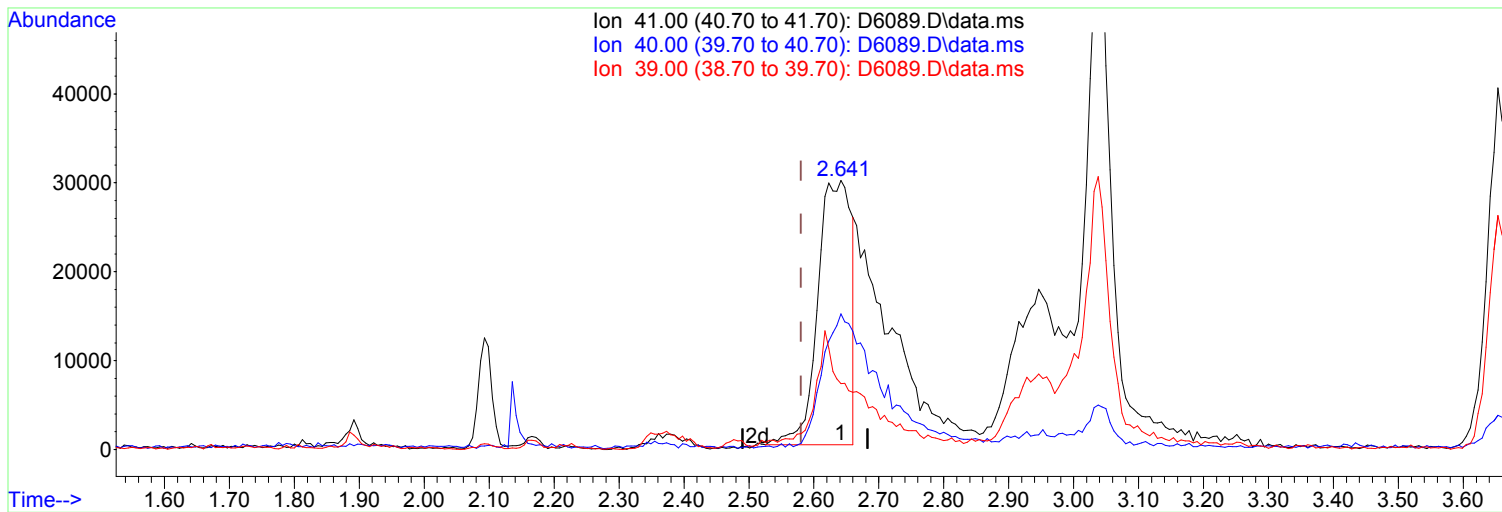
response 216318

| Ion | Exp% | Act% |
|-------|-------|-------|
| 41.00 | 100 | 100 |
| 40.00 | 49.60 | 50.38 |
| 39.00 | 20.20 | 24.45 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6089.D
 Acq On : 24 Sep 2018 8:57 pm
 Operator : D.LIPANI
 Sample : R1809120-005DMS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 33 Sample Multiplier: 1

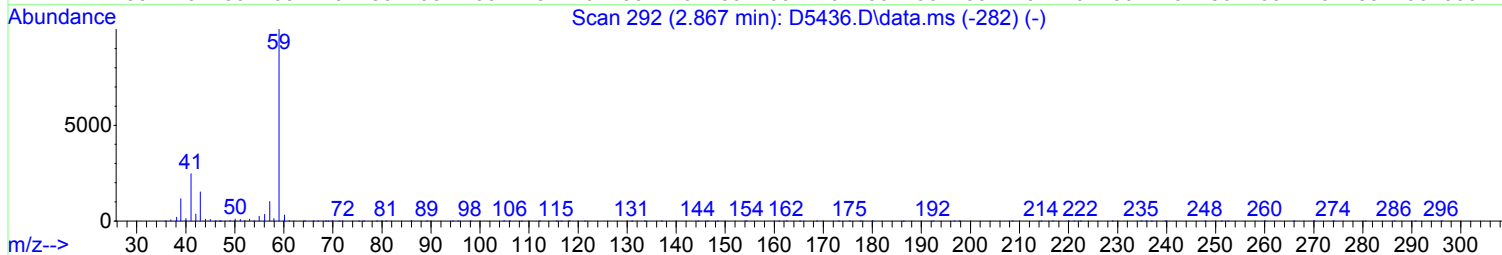
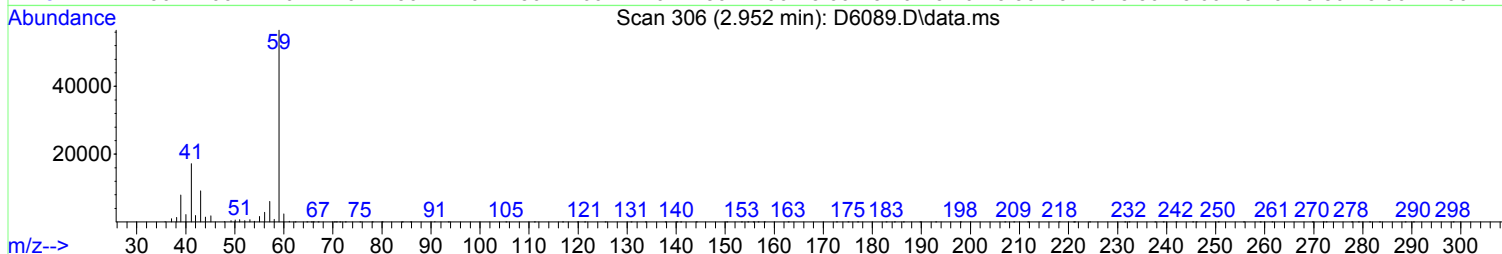
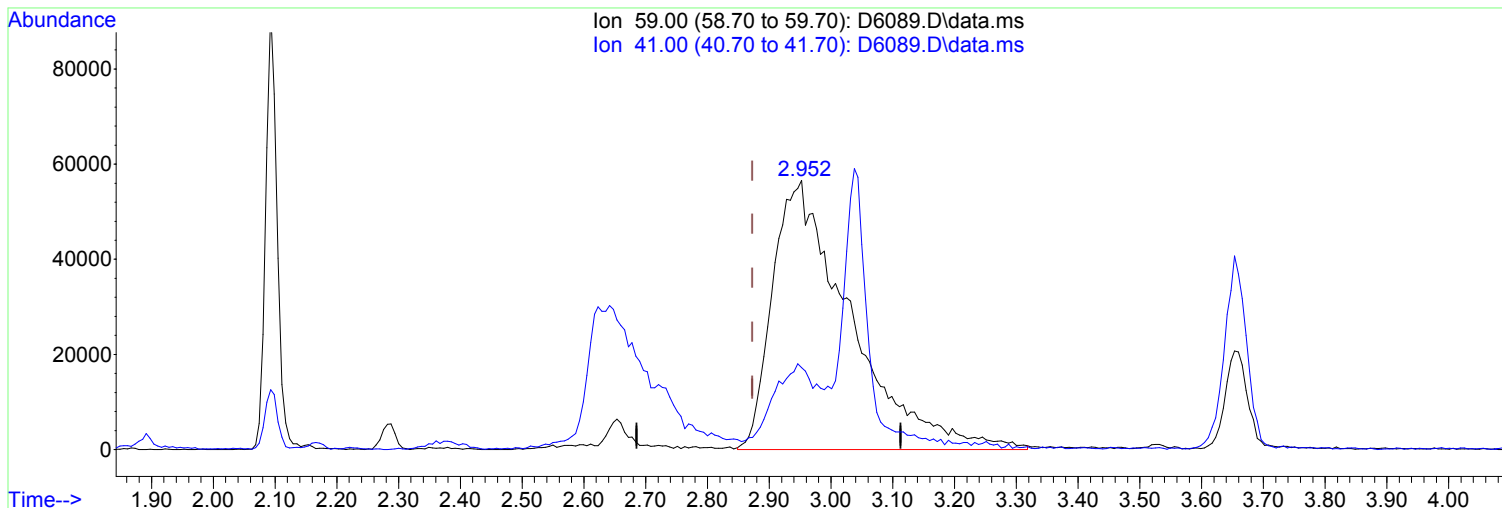
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 Response via : Initial Calibration



| | | | |
|-------------------|-------------|-------|---------------------|
| (19) Acetonitrile | | | Manual Integration: |
| 2.641min (+0.061) | 208.89 ug/L | | Before |
| response | 106042 | | |
| Ion | Exp% | Act% | 09/27/18 |
| 41.00 | 100 | 100 | |
| 40.00 | 49.60 | 50.38 | |
| 39.00 | 20.20 | 24.45 | |
| 0.00 | 0.00 | 0.00 | |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6089.D
Acq On : 24 Sep 2018 8:57 pm
Operator : D.LIPANI
Sample : R1809120-005DMS|1.0 Inst : MSVOA10
Misc : Verina 7979 T4
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 24 21:12:44 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(23) TBA

2.952min (+0.079) 1218.68 ug/L m

response 492955

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 41.00 | 24.80 | 30.44 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
After
Poor integration.
09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6089.D
 Acq On : 24 Sep 2018 8:57 pm
 Operator : D.LIPANI
 Sample : R1809120-005DMS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 27 15:42:08 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|--------|----------|----------|------------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 237391 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 360184 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 314193 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 173814 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 112504 | 46.35 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 | - 119 | Recovery = | 92.70% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 160174 | 50.18 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 | - 125 | Recovery = | 100.36% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 455160 | 46.25 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 | - 121 | Recovery = | 92.50% | |
| 69) SURR2,BFB | 10.878 | 95 | 173928 | 45.99 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 | - 122 | Recovery = | 91.98% | |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 147430 | 46.51 | ug/L | 98 |
| 3) Chloromethane | 1.282 | 50 | 99000 | 28.60 | ug/L | 93 |
| 4) Vinyl Chloride | 1.361 | 62 | 156440 | 45.53 | ug/L | 90 |
| 5) Bromomethane | 1.599 | 94 | 960 | Below Cal | # | 72 |
| 6) Chloroethane | 1.672 | 64 | 133167 | 62.00 | ug/L | 98 |
| 7) Freon 21 | 1.812 | 67 | 276429 | 52.65 | ug/L | 99 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 219471 | 56.82 | ug/L | 98 |
| 9) Diethyl Ether | 2.093 | 59 | 119008 | 54.42 | ug/L | 93 |
| 10) Freon 123a | 2.099 | 67 | 155309 | 51.53 | ug/L | 94 |
| 11) Freon 123 | 2.148 | 83 | 208646 | 62.38 | ug/L | 95 |
| 12) Acrolein | 2.202 | 56 | 8310 | 11.78 | ug/L | 80 |
| 13) 1,1-Diclcethene | 2.282 | 96 | 102970 | 47.06 | ug/L | 99 |
| 14) Freon 113 | 2.288 | 101 | 101452 | 46.54 | ug/L | 95 |
| 15) Acetone | 2.355 | 43 | 143051 | 102.43 | ug/L | 93 |
| 16) 2-Propanol | 2.404 | 45 | 659 | 2.44 | ug/L | # 1 |
| 17) Iodomethane | 2.422 | 142 | 450 | 1.93 | ug/L | 99 |
| 18) Carbon Disulfide | 2.477 | 76 | 334488 | 56.06 | ug/L | 99 |
| 19) Acetonitrile | 2.641 | 41 | 216318m | 426.11 | ug/L | |
| 20) Allyl Chloride | 2.617 | 76 | 4207 | 3.94 | ug/L | # 1 |
| 21) Methyl Acetate | 2.648 | 43 | 171222 | 61.52 | ug/L | 93 |
| 22) Methylene Chloride | 2.733 | 84 | 119061 | 46.64 | ug/L | # 89 |
| 23) TBA | 2.952 | 59 | 492955m | 1218.68 | ug/L | |
| 24) Acrylonitrile | 3.001 | 53 | 396782 | 287.41 | ug/L | 96 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 403481 | 49.71 | ug/L | 95 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 118087 | 50.46 | ug/L | 97 |
| 27) 1,1-Diclcethane | 3.525 | 63 | 274276 | 59.80 | ug/L | 99 |
| 28) Vinyl Acetate | 3.623 | 86 | 27656 | 52.38 | ug/L | # 36 |
| 29) DIPE | 3.660 | 45 | 524857 | 61.80 | ug/L | 95 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 195695 | 49.64 | ug/L | 96 |
| 31) ETBE | 4.184 | 59 | 370003 | 48.11 | ug/L | 97 |
| 32) 2,2-Dichloropropane | 4.361 | 77 | 145335 | 41.57 | ug/L | 99 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 125773 | 48.23 | ug/L | 86 |
| 34) 2-Butanone | 4.440 | 43 | 128483 | 68.05 | ug/L | 90 |
| 35) Propionitrile | 4.537 | 54 | 158196 | 282.82 | ug/L | 98 |
| 36) Bromochloromethane | 4.769 | 130 | 73707 | 45.74 | ug/L | # 85 |
| 37) Methacrylonitrile | 4.781 | 67 | 73778 | 54.82 | ug/L | # 79 |
| 38) Tetrahydrofuran | 4.879 | 42 | 69475 | 59.41 | ug/L | 86 |
| 39) Chloroform | 4.952 | 83 | 213992 | 50.95 | ug/L | 95 |
| 40) 1,1,1-Trichloroethane | 5.251 | 97 | 172968 | 48.78 | ug/L | 94 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6089.D
 Acq On : 24 Sep 2018 8:57 pm
 Operator : D.LIPANI
 Sample : R1809120-005DMS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 27 15:42:08 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.342 | 41 | 162807 | 61.55 | ug/L | 95 |
| 44) Carbontetrachloride | 5.531 | 117 | 129584 | 48.74 | ug/L | 99 |
| 45) 1,1-Dichloropropene | 5.549 | 75 | 172205 | 51.15 | ug/L | 94 |
| 47) Benzene | 5.866 | 78 | 497571 | 51.83 | ug/L | 96 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 201507 | 52.76 | ug/L | 97 |
| 49) Iso-Butyl Alcohol | 5.933 | 43 | 224475 | 1253.91 | ug/L | 97 |
| 50) TAME | 6.104 | 73 | 364048 | 51.58 | ug/L | 93 |
| 51) n-Heptane | 6.354 | 43 | 199219 | 61.33 | ug/L | 95 |
| 52) 1-Butanol | 6.921 | 56 | 291027 | 2914.43 | ug/L | 99 |
| 53) Trichloroethene | 6.817 | 130 | 121223 | 48.35 | ug/L | 96 |
| 54) Methylcyclohexane | 7.055 | 55 | 190225 | 59.56 | ug/L | 92 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 141109 | 52.84 | ug/L | 97 |
| 56) Dibromomethane | 7.244 | 93 | 78052 | 49.14 | ug/L | 99 |
| 57) 1,4-Dioxane | 7.397 | 88 | 37685 | 815.65 | ug/L | 88 |
| 58) Methyl Methacrylate | 7.330 | 69 | 119631 | 57.19 | ug/L | 90 |
| 59) Bromodichloromethane | 7.470 | 83 | 151480 | 51.18 | ug/L | 98 |
| 60) 2-Nitropropane | 7.762 | 41 | 70185 | 140.01 | ug/L | 97 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 93668 | 64.96 | ug/L | 90 |
| 63) 4-Methyl-2-pentanone | 8.226 | 43 | 237619 | 68.24 | ug/L | 97 |
| 65) Toluene | 8.384 | 91 | 523542 | 50.73 | ug/L | 98 |
| 66) trans-1,3-Dichloropropene | 8.659 | 75 | 2184 | 0.66 | ug/L | 85 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 200106 | 58.49 | ug/L | 89 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 112700 | 49.38 | ug/L | 98 |
| 71) Tetrachloroethene | 8.982 | 164 | 92181 | 47.17 | ug/L | 97 |
| 72) 2-Hexanone | 9.134 | 43 | 191284 | 72.17 | ug/L | 95 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 213585 | 53.32 | ug/L | 91 |
| 74) Dibromochloromethane | 9.238 | 129 | 101266 | 48.57 | ug/L | 99 |
| 75) N-Butyl Acetate | 9.293 | 43 | 346192 | 68.91 | ug/L | 94 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 108707 | 47.15 | ug/L | 95 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 177908 | 50.48 | ug/L | 95 |
| 78) Chlorobenzene | 9.829 | 112 | 321073 | 48.35 | ug/L | 98 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 158425 | 50.51 | ug/L | 99 |
| 80) 1,1,1,2-Tetrachloroethane | 9.914 | 131 | 103168 | 50.10 | ug/L | 94 |
| 81) Ethylbenzene | 9.951 | 106 | 173852 | 50.00 | ug/L # | 90 |
| 82) (m+p)Xylene | 10.061 | 106 | 435068 | 100.66 | ug/L | 99 |
| 83) o-Xylene | 10.420 | 106 | 213016 | 49.55 | ug/L | 97 |
| 84) Styrene | 10.433 | 104 | 359492 | 51.98 | ug/L | 97 |
| 85) Bromoform | 10.585 | 173 | 70154 | 51.01 | ug/L | 96 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 175891 | 51.75 | ug/L | 99 |
| 87) Isopropylbenzene | 10.756 | 105 | 548398 | 50.25 | ug/L | 99 |
| 88) Cyclohexanone | 10.829 | 55 | 734577 | 1404.18 | ug/L | 93 |
| 89) trans-1,4-Dichloro-2-B... | 11.109 | 53 | 3655 | 5.52 | ug/L # | 1 |
| 91) 1,1,2,2-Tetrachloroethane | 11.012 | 83 | 181339 | 54.91 | ug/L | 99 |
| 92) Bromobenzene | 11.000 | 156 | 144168 | 49.59 | ug/L | 94 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 53815 | 52.86 | ug/L | 97 |
| 94) n-Propylbenzene | 11.109 | 91 | 673716 | 52.56 | ug/L | 99 |
| 95) 2-Chlorotoluene | 11.170 | 91 | 392902 | 50.83 | ug/L | 98 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 386396 | 50.60 | ug/L | 97 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 454957 | 49.35 | ug/L | 95 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 465573 | 52.28 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 398225 | 50.96 | ug/L | 99 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 460924 | 51.98 | ug/L | 99 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 144441 | 50.70 | ug/L | 97 |
| 102) sec-Butylbenzene | 11.719 | 105 | 594148 | 52.59 | ug/L | 98 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 493876 | 51.22 | ug/L | 99 |
| 104) 1,3-Dclbenz | 11.798 | 146 | 260881 | 48.79 | ug/L | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6089.D
 Acq On : 24 Sep 2018 8:57 pm
 Operator : D.LIPANI
 Sample : R1809120-005DMS|1.0 Inst : MSVOA10
 Misc : Verina 7979 T4
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 27 15:42:08 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

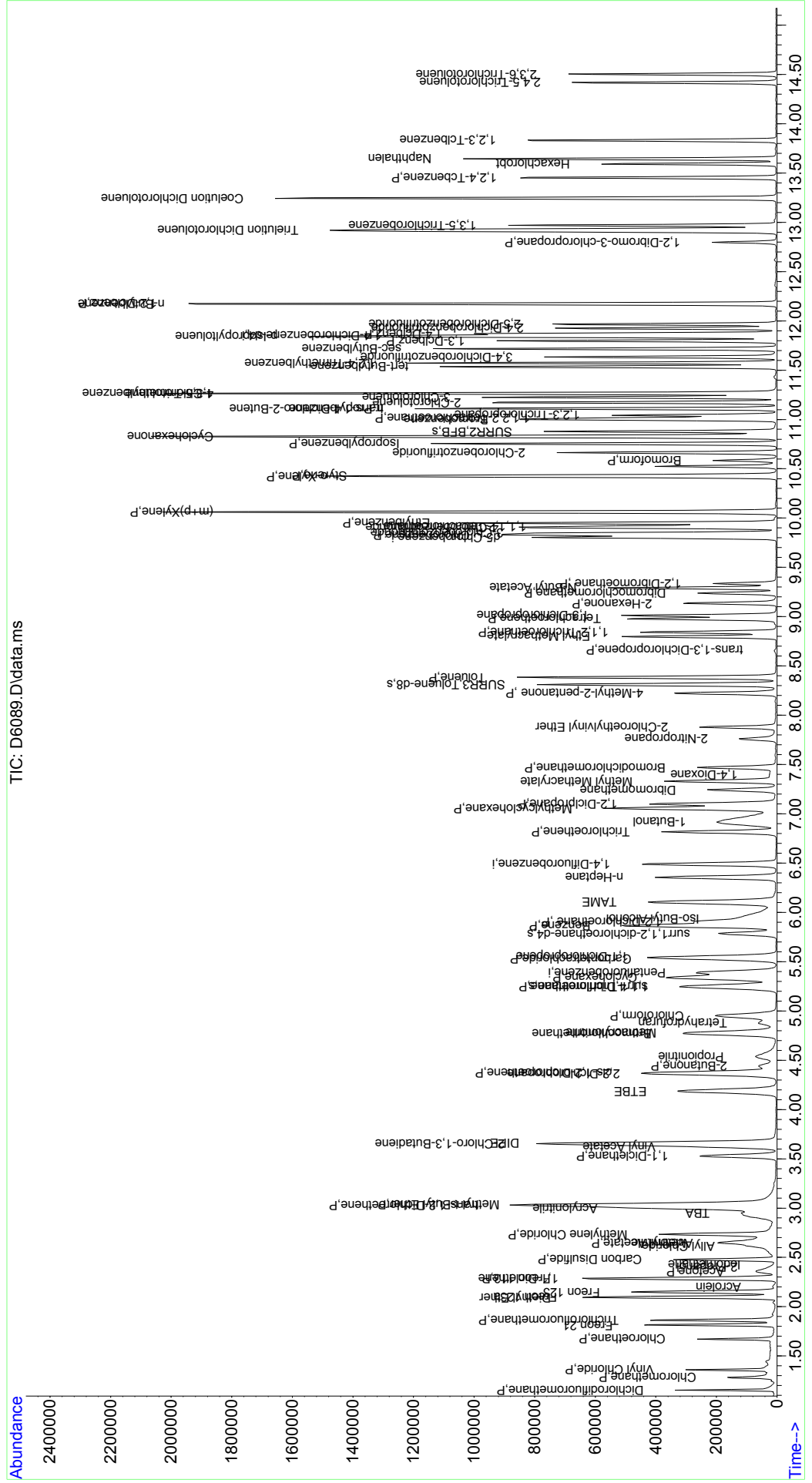
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 105) 1,4-Dclbenz | 11.871 | 146 | 263782 | 46.72 | ug/L | 98 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 133985 | 52.74 | ug/L | 98 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 154721 | 52.72 | ug/L | 98 |
| 108) n-Butylbenzene | 12.170 | 91 | 477252 | 51.77 | ug/L | 98 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 252752 | 46.59 | ug/L | 97 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 33750 | 49.90 | ug/L | 96 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 672801 | 151.91 | ug/L | 99 |
| 112) 1,3,5-Trichlorobenzene | 12.969 | 180 | 198868 | 50.58 | ug/L | 99 |
| 113) Coelution Dichlorotoluene | 13.243 | 125 | 491302 | 100.47 | ug/L | 94 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 200515 | 52.00 | ug/L | 98 |
| 115) Hexachlorobt | 13.591 | 225 | 80044 | 47.49 | ug/L | 97 |
| 116) Naphthalen | 13.645 | 128 | 582007 | 58.22 | ug/L | 100 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 195923 | 51.67 | ug/L | 97 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 127551 | 52.99 | ug/L | 95 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 120597 | 53.22 | ug/L | 94 |

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

Data Path : I:\ACQDATA\msvoa10\data\092418\
 Data File : D6089.D
 Acq On : 24 Sep 2018 8:57 pm
 Operator : D.LIPANI
 Sample : R1809120-005DMS|1.0
 Misc : Verina 7979 T4
 ALS Vial : 33 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 27 15:42:08 2018
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6060.D
Acq On : 24 Sep 2018 9:41 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 09:55:38 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
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 | Pentafluorobenzene | 1.0000 | 1.0000 | 0.0 | 106 | 0.00 |
| 2 P | Dichlorodifluoromethane | 0.6676 | 0.5892 | 11.7 | 95 | 0.00 |
| 3 P | Chloromethane | 0.7292 | 0.7434 | -1.9 | 112 | 0.00 |
| 4 P | Vinyl Chloride | 0.7238 | 0.6773 | 6.4 | 103 | 0.00 |
| 5 P | Bromomethane | 0.6792 | 0.4887 | 28.0# | 106 | 0.00 |
| 6 P | Chloroethane | 0.4524 | 0.4477 | 1.0 | 107 | 0.00 |
| 7 | Freon 21 | 1.1058 | 1.0732 | 2.9 | 112 | 0.00 |
| 8 P | Trichlorofluoromethane | 0.8136 | 0.7576 | 6.9 | 105 | 0.00 |
| 9 | Diethyl Ether | 0.4606 | 0.4859 | -5.5 | 113 | 0.00 |
| 10 | Freon 123a | 0.6348 | 0.6329 | 0.3 | 118 | 0.00 |
| 11 | Freon 123 | 0.7045 | 0.7111 | -0.9 | 120 | 0.00 |
| 12 | Acrolein | 0.1486 | 0.1229 | 17.3 | 89 | 0.00 |
| 13 | 1,1-Dicethene | 0.4609 | 0.4540 | 1.5 | 108 | 0.00 |
| 14 P | Freon 113 | 0.4591 | 0.4581 | 0.2 | 111 | 0.00 |
| 15 P | Acetone | 0.2941 | 0.3411 | -16.0 | 130 | 0.00 |
| 16 | 2-Propanol | 0.0569 | 0.0525 | 7.7 | 105 | -0.02 |
| 17 | Iodomethane | 0.5454 | 0.6138 | -12.5 | 96 | 0.00 |
| 18 P | Carbon Disulfide | 1.2567 | 1.3406 | -6.7 | 111 | 0.00 |
| 19 | Acetonitrile | 0.1069 | 0.1144 | -7.0 | 122 | 0.00 |
| 20 | Allyl Chloride | 0.2247 | 0.2265 | -0.8 | 110 | 0.00 |
| 21 P | Methyl Acetate | 0.5862 | 0.6420 | -9.5 | 123 | 0.00 |
| 22 P | Methylene Chloride | 0.5377 | 0.5175 | 3.8 | 110 | 0.00 |
| 23 | TBA | 0.0852 | 0.0740 | 13.1 | 96 | 0.00 |
| 24 | Acrylonitrile | 0.2908 | 0.3128 | -7.6 | 118 | 0.00 |
| 25 P | Methyl-t-Butyl Ether | 1.7095 | 1.6946 | 0.9 | 108 | 0.00 |
| 26 P | trans-1,2-Dichloroethene | 0.4929 | 0.5077 | -3.0 | 109 | 0.00 |
| 27 P | 1,1-Dicethane | 0.9660 | 1.0254 | -6.1 | 116 | 0.00 |
| 28 | Vinyl Acetate | 0.1112 | 0.1106 | 0.5 | 109 | 0.00 |
| 29 | DIPE | 1.7888 | 2.1470 | -20.0# | 132 | 0.00 |
| 30 | 2-Chloro-1,3-Butadiene | 0.8303 | 0.9286 | -11.8 | 122 | 0.00 |
| 31 | ETBE | 1.6197 | 1.6341 | -0.9 | 111 | 0.00 |
| 32 | 2,2-Dichloropropane | 0.7364 | 0.6375 | 13.4 | 91 | 0.00 |
| 33 P | cis-1,2-Dichloroethene | 0.5493 | 0.5593 | -1.8 | 109 | 0.00 |
| 34 P | 2-Butanone | 0.3977 | 0.4559 | -14.6 | 133 | 0.00 |
| 35 | Propionitrile | 0.1178 | 0.1194 | -1.4 | 114 | 0.00 |
| 36 | Bromochloromethane | 0.3394 | 0.3361 | 1.0 | 108 | 0.00 |
| 37 | Methacrylonitrile | 0.2835 | 0.2806 | 1.0 | 109 | 0.00 |
| 38 | Tetrahydrofuran | 0.2463 | 0.2689 | -9.2 | 122 | 0.00 |
| 39 P | Chloroform | 0.8846 | 0.9191 | -3.9 | 111 | 0.00 |
| 40 P | 1,1,1-Trichloroethane | 0.7469 | 0.7358 | 1.5 | 107 | 0.00 |
| 41 i | 1,4-Difluorobenzene | 1.0000 | 1.0000 | 0.0 | 105 | 0.00 |
| 42 P | Cyclohexane | 0.3672 | 0.4350 | -18.5 | 138 | 0.00 |
| 43 s | surr4,Dibrflmethane | 0.3369 | 0.3398 | -0.9 | 100 | 0.00 |
| 44 P | Carbontetrachloride | 0.3690 | 0.3722 | -0.9 | 105 | 0.00 |
| 45 | 1,1-Dichloropropene | 0.4674 | 0.4957 | -6.1 | 113 | 0.00 |
| 46 s | surr1,1,2-dichloroethane-d4 | 0.4431 | 0.4704 | -6.2 | 107 | 0.00 |
| 47 P | Benzene | 1.3327 | 1.4077 | -5.6 | 113 | 0.00 |
| 48 P | 1,2-Dichloroethane | 0.5302 | 0.5579 | -5.2 | 116 | 0.00 |
| 49 | Iso-Butyl Alcohol | 0.0249 | 0.0250 | -0.4 | 110 | -0.01 |
| 50 | TAME | 0.9798 | 0.9898 | -1.0 | 108 | 0.00 |
| 51 | n-Heptane | 0.4509 | 0.5959 | -32.2# | 139 | 0.00 |

Evaluate Continuing Calibration Report

1st BA 09/27/18
2nd DL 09/27/18

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6060.D
Acq On : 24 Sep 2018 9:41 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 24 09:55:38 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
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) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 52 | 1-Butanol | 0.0136 | 0.0140 | -2.9 | 109 | -0.01 |
| 53 P | Trichloroethene | 0.3480 | 0.3343 | 3.9 | 106 | 0.00 |
| 54 P | Methylcyclohexane | 0.4434 | 0.5120 | -15.5 | 131 | 0.00 |
| 55 P | 1,2-Diclp propane | 0.3707 | 0.4045 | -9.1 | 115 | 0.00 |
| 56 | Dibromomethane | 0.2205 | 0.2275 | -3.2 | 110 | 0.00 |
| 57 | 1,4-Dioxane | 0.0064 | 0.0059 | 7.8 | 100 | 0.00 |
| 58 | Methyl Methacrylate | 0.2904 | 0.2979 | -2.6 | 109 | 0.00 |
| 59 P | Bromodichloromethane | 0.4109 | 0.4371 | -6.4 | 111 | 0.00 |
| 60 | 2-Nitropropane | 0.0696 | 0.1020 | -46.6# | 157 | 0.00 |
| 61 | 2-Chloroethylvinyl Ether | 0.2002 | 0.2006 | -0.2 | 104 | 0.00 |
| 62 P | cis-1,3-Dichloropropene | 0.5039 | 0.5510 | -9.3 | 106 | 0.00 |
| 63 P | 4-Methyl-2-pentanone | 0.4833 | 0.5322 | -10.1 | 119 | 0.00 |
| 64 s | SURR3,Toluene-d8 | 1.3662 | 1.4369 | -5.2 | 105 | 0.00 |
| 65 P | Toluene | 1.4326 | 1.4958 | -4.4 | 111 | 0.00 |
| 66 P | trans-1,3-Dichloropropene | 0.4563 | 0.4728 | -3.6 | 101 | 0.00 |
| 67 | Ethyl Methacrylate | 0.4749 | 0.5124 | -7.9 | 111 | 0.00 |
| 68 P | 1,1,2-Trichloroethane | 0.3169 | 0.3222 | -1.7 | 109 | 0.00 |
| 69 s | SURR2,BFB | 0.5250 | 0.5744 | -9.4 | 108 | 0.00 |
| 70 i | d5-Chlorobenzene | 1.0000 | 1.0000 | 0.0 | 106 | 0.00 |
| 71 P | Tetrachloroethene | 0.3110 | 0.3063 | 1.5 | 113 | 0.00 |
| 72 P | 2-Hexanone | 0.4218 | 0.4524 | -7.3 | 120 | 0.00 |
| 73 | 1,3-Dichloropropene | 0.6375 | 0.6518 | -2.2 | 109 | 0.00 |
| 74 P | Dibromochloromethane | 0.3318 | 0.3501 | -5.5 | 109 | 0.00 |
| 75 | N-Butyl Acetate | 0.7995 | 0.8837 | -10.5 | 119 | 0.00 |
| 76 P | 1,2-Dibromoethane | 0.3669 | 0.3764 | -2.6 | 111 | 0.00 |
| 77 | 3-Chlorobenzotrifluoride | 0.5609 | 0.5539 | 1.2 | 120 | 0.00 |
| 78 P | Chlorobenzene | 1.0567 | 1.0421 | 1.4 | 108 | 0.00 |
| 79 | 4-Chlorobenzotrifluoride | 0.4991 | 0.4899 | 1.8 | 118 | 0.00 |
| 80 | 1,1,1,2-Tetrachloroethane | 0.3277 | 0.3350 | -2.2 | 106 | 0.00 |
| 81 P | Ethylbenzene | 0.5533 | 0.5513 | 0.4 | 108 | 0.00 |
| 82 P | (m+p)Xylene | 0.6878 | 0.7081 | -3.0 | 111 | 0.00 |
| 83 P | o-Xylene | 0.6841 | 0.6812 | 0.4 | 108 | 0.00 |
| 84 P | Styrene | 1.1007 | 1.1685 | -6.2 | 108 | 0.00 |
| 85 P | Bromoform | 0.2127 | 0.2358 | -10.9 | 110 | 0.00 |
| 86 | 2-Chlorobenzotrifluoride | 0.5409 | 0.5358 | 0.9 | 115 | 0.00 |
| 87 P | Isopropylbenzene | 1.7367 | 1.8112 | -4.3 | 109 | 0.00 |
| 88 | Cyclohexanone | 0.0833 | 0.0898 | -7.8 | 111 | 0.00 |
| 89 | trans-1,4-Dichloro-2-Butene | 0.1183 | 0.1231 | -4.1 | 103 | 0.00 |
| 90 i | 1,4-Dichlorobenzene-d4 | 1.0000 | 1.0000 | 0.0 | 109 | 0.00 |
| 91 P | 1,1,2,2-Tetrachloroethane | 0.9501 | 0.9306 | 2.1 | 110 | 0.00 |
| 92 | Bromobenzene | 0.8364 | 0.7909 | 5.4 | 108 | 0.00 |
| 93 | 1,2,3-Trichloropropene | 0.2929 | 0.2694 | 8.0 | 102 | 0.00 |
| 94 | n-Propylbenzene | 3.6871 | 3.8244 | -3.7 | 113 | 0.00 |
| 95 | 2-Chlorotoluene | 2.2238 | 2.1497 | 3.3 | 109 | 0.00 |
| 96 | 3-Chlorotoluene | 2.1968 | 2.0447 | 6.9 | 111 | 0.00 |
| 97 | 4-Chlorotoluene | 2.6522 | 2.5656 | 3.3 | 108 | 0.00 |
| 98 | 1,3,5-Trimethylbenzene | 2.5618 | 2.5815 | -0.8 | 109 | 0.00 |
| 99 | tert-Butylbenzene | 2.2480 | 2.2296 | 0.8 | 110 | 0.00 |
| 100 | 1,2,4-Trimethylbenzene | 2.5509 | 2.5767 | -1.0 | 110 | 0.00 |
| 101 | 3,4-Dichlorobenzotrifluorid | 0.8195 | 0.8116 | 1.0 | 117 | 0.00 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6060.D
 Acq On : 24 Sep 2018 9:41 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 24 09:55:38 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 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) |
|-------|-----------------------------|--------|--------|------|-------|----------|
| 102 | sec-Butylbenzene | 3.2497 | 3.3425 | -2.9 | 112 | 0.00 |
| 103 | p-Isopropyltoluene | 2.7735 | 2.8138 | -1.5 | 112 | 0.00 |
| 104 P | 1,3-Dclbenz | 1.5381 | 1.4890 | 3.2 | 109 | 0.00 |
| 105 P | 1,4-Dclbenz | 1.6241 | 1.5461 | 4.8 | 109 | 0.00 |
| 106 | 2,4-Dichlorobenzotrifluorid | 0.7307 | 0.7567 | -3.6 | 121 | 0.00 |
| 107 | 2,5-Dichlorobenzotrifluorid | 0.8442 | 0.8088 | 4.2 | 115 | 0.00 |
| 108 | n-Butylbenzene | 2.6519 | 2.7418 | -3.4 | 114 | 0.00 |
| 109 P | 1,2-Dclbenz | 1.5604 | 1.4623 | 6.3 | 108 | 0.00 |
| 110 P | 1,2-Dibromo-3-chloropropane | 0.1946 | 0.1669 | 14.2 | 95 | 0.00 |
| 111 | Trielution Dichlorotoluene | 1.2741 | 1.2092 | 5.1 | 110 | 0.00 |
| 112 | 1,3,5-Trichlorobenzene | 1.1311 | 1.0886 | 3.8 | 113 | 0.00 |
| 113 | Coelution Dichlorotoluene | 1.4068 | 1.3423 | 4.6 | 108 | 0.00 |
| 114 P | 1,2,4-Tcbenzene | 1.1092 | 1.1300 | -1.9 | 112 | 0.00 |
| 115 | Hexachlorobt | 0.4849 | 0.5041 | -4.0 | 113 | 0.00 |
| 116 | Naphthalen | 2.8757 | 2.8030 | 2.5 | 102 | 0.00 |
| 117 | 1,2,3-Tclbenzene | 1.0907 | 1.0512 | 3.6 | 109 | 0.00 |
| 118 | 2,4,5-Trichlorotoluene | 0.6924 | 0.6882 | 0.6 | 105 | 0.00 |
| 119 | 2,3,6-Trichlorotoluene | 0.6519 | 0.6197 | 4.9 | 106 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6060.D
 Acq On : 24 Sep 2018 9:41 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 24 09:55:38 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|--------|----------|----------|----------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 229317 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 348015 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.804 | 117 | 314261 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 184693 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.238 | 113 | 118244 | 50.42 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 | - 119 | Recovery | = | 100.84% |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 163705 | 53.08 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 | - 125 | Recovery | = | 106.16% |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 500065 | 52.59 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 | - 121 | Recovery | = | 105.18% |
| 69) SURR2,BFB | 10.877 | 95 | 199896 | 54.70 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 | - 122 | Recovery | = | 109.40% |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 135113 | 44.13 | ug/L | 99 |
| 3) Chloromethane | 1.282 | 50 | 170481 | 50.98 | ug/L | 95 |
| 4) Vinyl Chloride | 1.361 | 62 | 155308 | 46.79 | ug/L | 98 |
| 5) Bromomethane | 1.587 | 94 | 112060 | 41.02 | ug/L | 100 |
| 6) Chloroethane | 1.666 | 64 | 102661 | 49.48 | ug/L | 96 |
| 7) Freon 21 | 1.812 | 67 | 246108 | 48.53 | ug/L | 99 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 173737 | 46.56 | ug/L | 98 |
| 9) Diethyl Ether | 2.092 | 59 | 111415 | 52.74 | ug/L | 95 |
| 10) Freon 123a | 2.099 | 67 | 145139 | 49.85 | ug/L | 97 |
| 11) Freon 123 | 2.147 | 83 | 163073 | 50.47 | ug/L | 99 |
| 12) Acrolein | 2.190 | 56 | 140945 | 206.76 | ug/L | 97 |
| 13) 1,1-Diclcethene | 2.281 | 96 | 104110 | 49.25 | ug/L | 95 |
| 14) Freon 113 | 2.288 | 101 | 105044 | 49.89 | ug/L | 99 |
| 15) Acetone | 2.324 | 43 | 78220 | 57.98 | ug/L | 99 |
| 16) 2-Propanol | 2.464 | 45 | 240875 | 923.44 | ug/L | 93 |
| 17) Iodomethane | 2.416 | 142 | 140754 | 50.80 | ug/L | 98 |
| 18) Carbon Disulfide | 2.477 | 76 | 307412 | 53.34 | ug/L | 99 |
| 19) Acetonitrile | 2.580 | 41 | 131203 | 267.55 | ug/L | 94 |
| 20) Allyl Chloride | 2.617 | 76 | 51934 | 50.40 | ug/L # | 73 |
| 21) Methyl Acetate | 2.641 | 43 | 147230 | 54.76 | ug/L | 95 |
| 22) Methylene Chloride | 2.733 | 84 | 118679 | 48.13 | ug/L # | 88 |
| 23) TBA | 2.867 | 59 | 339588 | 869.09 | ug/L | 92 |
| 24) Acrylonitrile | 2.989 | 53 | 358658 | 268.94 | ug/L | 99 |
| 25) Methyl-t-Butyl Ether | 3.037 | 73 | 388607 | 49.56 | ug/L | 99 |
| 26) trans-1,2-Dichloroethene | 3.031 | 96 | 116423 | 51.50 | ug/L | 98 |
| 27) 1,1-Diclcethane | 3.525 | 63 | 235149 | 53.07 | ug/L | 98 |
| 28) Vinyl Acetate | 3.623 | 86 | 25361 | 49.73 | ug/L # | 83 |
| 29) DIPE | 3.653 | 45 | 492352 | 60.01 | ug/L | 93 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 212938 | 55.92 | ug/L | 90 |
| 31) ETBE | 4.184 | 59 | 374738 | 50.45 | ug/L | 98 |
| 32) 2,2-Dichloropropane | 4.366 | 77 | 146194 | 43.29 | ug/L | 99 |
| 33) cis-1,2-Dichloroethene | 4.373 | 96 | 128253 | 50.91 | ug/L | 93 |
| 34) 2-Butanone | 4.415 | 43 | 104553 | 57.33 | ug/L | 91 |
| 35) Propionitrile | 4.501 | 54 | 136872 | 253.31 | ug/L | 96 |
| 36) Bromochloromethane | 4.769 | 130 | 77076 | 49.51 | ug/L | 90 |
| 37) Methacrylonitrile | 4.769 | 67 | 64338 | 49.49 | ug/L # | 81 |
| 38) Tetrahydrofuran | 4.860 | 42 | 61671 | 54.59 | ug/L | 93 |
| 39) Chloroform | 4.946 | 83 | 210768 | 51.95 | ug/L | 98 |
| 40) 1,1,1-Trichloroethane | 5.250 | 97 | 168730 | 49.26 | ug/L | 98 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6060.D
 Acq On : 24 Sep 2018 9:41 am
 Operator : D.LIPANI
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1
 Inst : MSVOA10

Quant Time: Sep 24 09:55:38 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.336 | 41 | 151378 | 59.23 | ug/L | 96 |
| 44) Carbontetrachloride | 5.531 | 117 | 129548 | 50.43 | ug/L | 94 |
| 45) 1,1-Dichloropropene | 5.543 | 75 | 172521 | 53.03 | ug/L | 96 |
| 47) Benzene | 5.860 | 78 | 489911 | 52.81 | ug/L | 94 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 194166 | 52.61 | ug/L | 96 |
| 49) Iso-Butyl Alcohol | 5.884 | 43 | 173777 | 1004.66 | ug/L | 99 |
| 50) TAME | 6.104 | 73 | 344460 | 50.51 | ug/L | 92 |
| 51) n-Heptane | 6.354 | 43 | 207376 | 66.07 | ug/L | 92 |
| 52) 1-Butanol | 6.854 | 56 | 242962 | 2566.87 | ug/L | 100 |
| 53) Trichloroethene | 6.817 | 130 | 116330 | 48.03 | ug/L | 95 |
| 54) Methylcyclohexane | 7.055 | 55 | 178190 | 57.74 | ug/L | 95 |
| 55) 1,2-Diclpropane | 7.098 | 63 | 140764 | 54.55 | ug/L | 94 |
| 56) Dibromomethane | 7.244 | 93 | 79167 | 51.59 | ug/L | 99 |
| 57) 1,4-Dioxane | 7.299 | 88 | 40985 | 918.10 | ug/L | 99 |
| 58) Methyl Methacrylate | 7.329 | 69 | 103685 | 51.30 | ug/L | 93 |
| 59) Bromodichloromethane | 7.470 | 83 | 152104 | 53.19 | ug/L | 98 |
| 60) 2-Nitropropane | 7.756 | 41 | 70983 | 146.55 | ug/L | 98 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 69828 | 50.12 | ug/L | 95 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 191754 | 54.68 | ug/L | 100 |
| 63) 4-Methyl-2-pentanone | 8.219 | 43 | 185220 | 55.06 | ug/L | 95 |
| 65) Toluene | 8.384 | 91 | 520560 | 52.21 | ug/L | 100 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 164545 | 51.81 | ug/L | 99 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 178317 | 53.94 | ug/L | 91 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 112141 | 50.85 | ug/L | 97 |
| 71) Tetrachloroethene | 8.975 | 164 | 96243 | 49.24 | ug/L | 94 |
| 72) 2-Hexanone | 9.134 | 43 | 142162 | 53.63 | ug/L | 97 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 204847 | 51.13 | ug/L | 92 |
| 74) Dibromochloromethane | 9.237 | 129 | 110017 | 52.76 | ug/L | 100 |
| 75) N-Butyl Acetate | 9.292 | 43 | 277714 | 55.27 | ug/L | 94 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 118293 | 51.29 | ug/L | 98 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 174064 | 49.38 | ug/L | 98 |
| 78) Chlorobenzene | 9.829 | 112 | 327484 | 49.31 | ug/L | 96 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 153944 | 49.07 | ug/L | 97 |
| 80) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 105279 | 51.11 | ug/L | 97 |
| 81) Ethylbenzene | 9.951 | 106 | 173263 | 49.82 | ug/L # | 89 |
| 82) (m+p)Xylene | 10.067 | 106 | 445047 | 102.94 | ug/L | 94 |
| 83) o-Xylene | 10.420 | 106 | 214084 | 49.79 | ug/L | 98 |
| 84) Styrene | 10.432 | 104 | 367205 | 53.08 | ug/L | 97 |
| 85) Bromoform | 10.585 | 173 | 74099 | 53.41 | ug/L | 92 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 168369 | 49.53 | ug/L | 97 |
| 87) Isopropylbenzene | 10.755 | 105 | 569183 | 52.14 | ug/L | 100 |
| 88) Cyclohexanone | 10.816 | 55 | 564634 | 1079.09 | ug/L | 95 |
| 89) trans-1,4-Dichloro-2-B... | 11.066 | 53 | 38679 | 49.74 | ug/L | 90 |
| 91) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 171878 | 48.98 | ug/L | 97 |
| 92) Bromobenzene | 10.999 | 156 | 146074 | 47.28 | ug/L | 95 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 49757 | 45.99 | ug/L # | 85 |
| 94) n-Propylbenzene | 11.109 | 91 | 706348 | 51.86 | ug/L | 99 |
| 95) 2-Chlorotoluene | 11.176 | 91 | 397038 | 48.34 | ug/L | 99 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 377635 | 46.54 | ug/L | 97 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 473850 | 48.37 | ug/L | 98 |
| 98) 1,3,5-Trimethylbenzene | 11.261 | 105 | 476794 | 50.38 | ug/L | 99 |
| 99) tert-Butylbenzene | 11.536 | 119 | 411796 | 49.59 | ug/L | 99 |
| 100) 1,2,4-Trimethylbenzene | 11.572 | 105 | 475891 | 50.51 | ug/L | 99 |
| 101) 3,4-Dichlorobenzotrifl... | 11.633 | 214 | 149888 | 49.52 | ug/L | 94 |
| 102) sec-Butylbenzene | 11.719 | 105 | 617335 | 51.43 | ug/L | 98 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 519687 | 50.73 | ug/L | 99 |

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6060.D
 Acq On : 24 Sep 2018 9:41 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 24 09:55:38 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 275017 | 48.40 | ug/L | 97 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 285557 | 47.60 | ug/L | 99 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 139764 | 51.78 | ug/L | 97 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 149382 | 47.90 | ug/L | 95 |
| 108) n-Butylbenzene | 12.176 | 91 | 506396 | 51.70 | ug/L | 98 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 270080 | 46.86 | ug/L | 99 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 30824 | 42.89 | ug/L | 93 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 670012 | 142.37 | ug/L | 96 |
| 112) 1,3,5-Trichlorobenzene | 12.975 | 180 | 201057 | 48.12 | ug/L | 98 |
| 113) Coelution Dichlorotoluene | 13.249 | 125 | 495812 | 95.42 | ug/L | 97 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 208704 | 50.94 | ug/L | 97 |
| 115) Hexachlorobt | 13.596 | 225 | 93109 | 51.98 | ug/L | 94 |
| 116) Naphthalen | 13.645 | 128 | 517686 | 48.73 | ug/L | 98 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 194148 | 48.19 | ug/L | 97 |
| 118) 2,4,5-Trichlorotoluene | 14.419 | 159 | 127098 | 49.69 | ug/L | 98 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 114452 | 47.53 | ug/L | 97 |

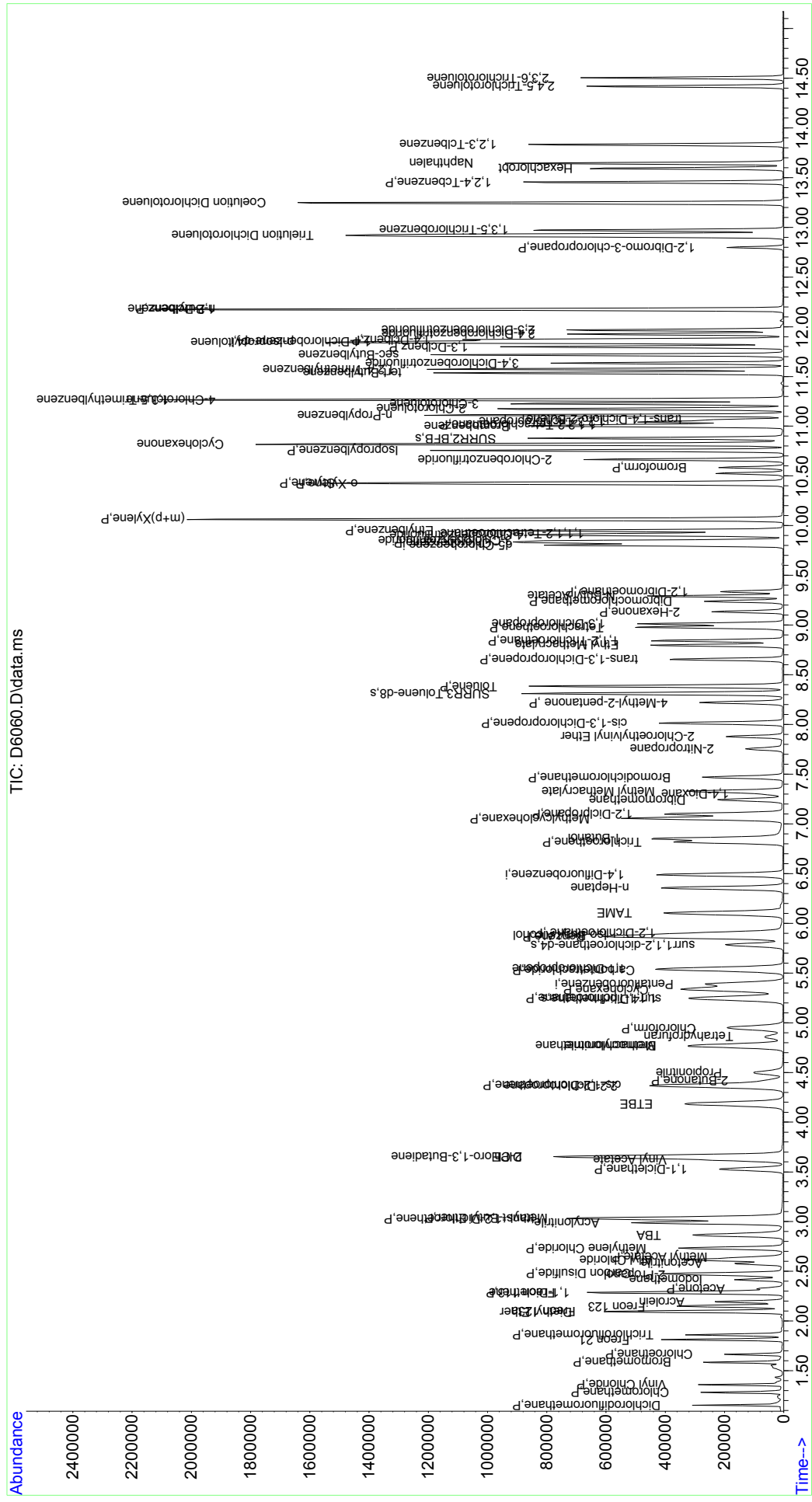
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6060.D
 Acq On : 24 Sep 2018 9:41 am
 Operator : D.LIPANI
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

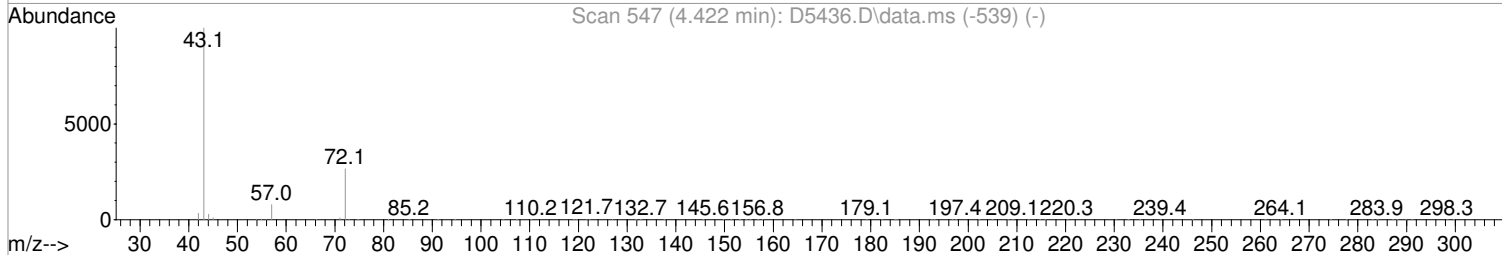
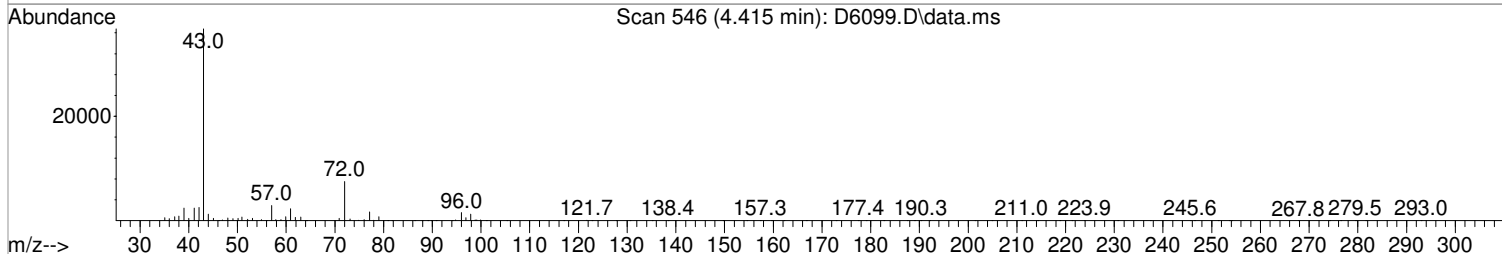
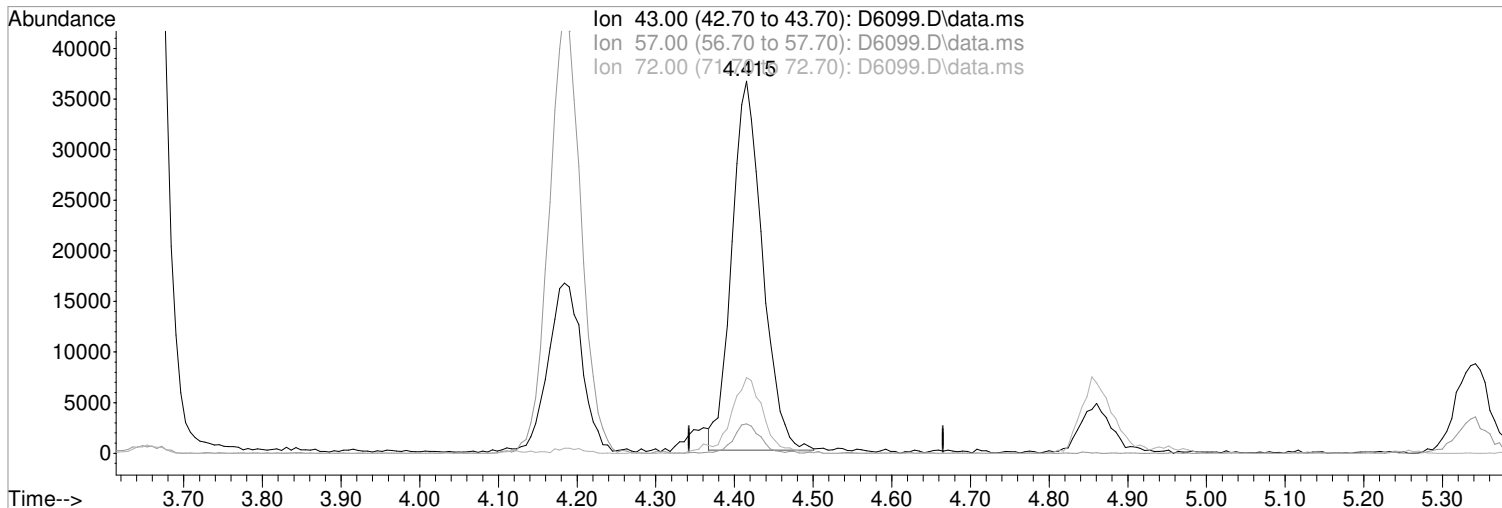
Quant Time: Sep 24 09:55:38 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6099.D
Acq On : 25 Sep 2018 10:36 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 10:51:29 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



TIC: D6099.D\data.ms

(34) 2-Butanone (P)
4.415min (+0.000) 57.89 ug/L m
response 98613

Manual Integration:
After
Peak not found.

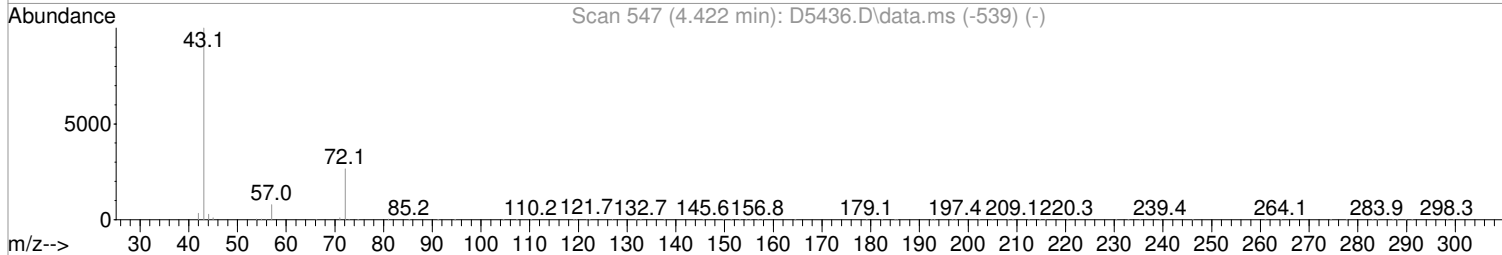
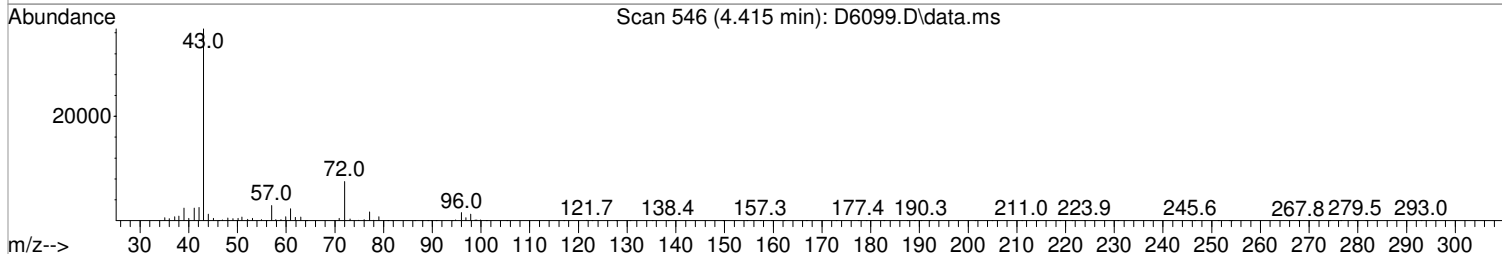
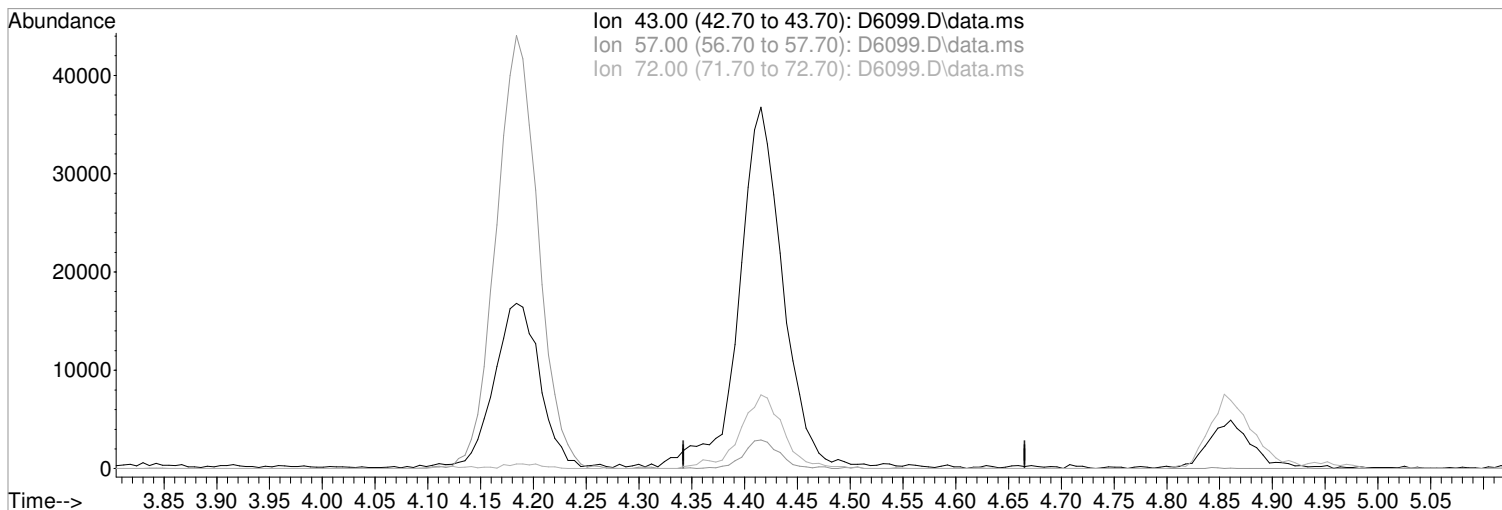
| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 57.00 | 7.80 | 7.92 |
| 72.00 | 25.10 | 20.40 |
| 0.00 | 0.00 | 0.00 |

09/25/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6099.D
Acq On : 25 Sep 2018 10:36 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 10:51:29 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



(34) 2-Butanone (P)

4.415min (-4.415) 0.00 ug/L

response 0

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 0.00 |
| 57.00 | 7.80 | 0.00 |
| 72.00 | 25.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:
Before
09/25/18

Evaluate Continuing Calibration Report

1st DL 09/27/18
2nd FN 09/28/18

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6099.D
Acq On : 25 Sep 2018 10:36 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 10:58:06 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
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 | Pentafluorobenzene | 1.0000 | 1.0000 | 0.0 | 99 | 0.00 |
| 2 P | Dichlorodifluoromethane | 0.6676 | 0.6096 | 8.7 | 92 | 0.00 |
| 3 P | Chloromethane | 0.7292 | 0.8033 | -10.2 | 113 | 0.00 |
| 4 P | Vinyl Chloride | 0.7238 | 0.7201 | 0.5 | 102 | 0.00 |
| 5 P | Bromomethane | 0.6792 | 0.5060 | -15.4 | 25.5 # | 102 0.00 |
| 6 P | Chloroethane | 0.4524 | 0.4418 | 2.3 | 98 | 0.00 |
| 7 | Freon 21 | 1.1058 | 1.0826 | 2.1 | 106 | 0.00 |
| 8 P | Trichlorofluoromethane | 0.8136 | 0.7922 | 2.6 | 103 | 0.00 |
| 9 | Diethyl Ether | 0.4606 | 0.5108 | -10.9 | 111 | 0.00 |
| 10 | Freon 123a | 0.6348 | 0.6769 | -6.6 | 118 | 0.00 |
| 11 | Freon 123 | 0.7045 | 0.7040 | 0.1 | 111 | 0.00 |
| 12 | Acrolein | 0.1486 | 0.1633 | -9.9 | 111 | 0.00 |
| 13 | 1,1-Dicethene | 0.4609 | 0.4744 | -2.9 | 105 | 0.00 |
| 14 P | Freon 113 | 0.4591 | 0.4835 | -5.3 | 109 | 0.00 |
| 15 P | Acetone | 0.2941 | 0.3517 | -19.6 | 125 | 0.00 |
| 16 | 2-Propanol | 0.0569 | 0.0542 | 4.7 | 101 | -0.02 |
| 17 | Iodomethane | 0.5454 | 0.6048 | +0.3 | 10.9 | 89 0.00 |
| 18 P | Carbon Disulfide | 1.2567 | 1.4454 | -15.0 | 112 | 0.00 |
| 19 | Acetonitrile | 0.1069 | 0.1257 | -17.6 | 125 | 0.00 |
| 20 | Allyl Chloride | 0.2247 | 0.2193 | 2.4 | 100 | 0.00 |
| 21 P | Methyl Acetate | 0.5862 | 0.6717 | -14.6 | 121 | 0.00 |
| 22 P | Methylene Chloride | 0.5377 | 0.5612 | -4.4 | 111 | 0.00 |
| 23 | TBA | 0.0852 | 0.0792 | 7.0 | 95 | 0.00 |
| 24 | Acrylonitrile | 0.2908 | 0.3340 | -14.9 | 117 | 0.00 |
| 25 P | Methyl-t-Butyl Ether | 1.7095 | 1.7817 | -4.2 | 106 | 0.00 |
| 26 P | trans-1,2-Dichloroethene | 0.4929 | 0.5336 | -8.3 | 107 | 0.00 |
| 27 P | 1,1-Dicethane | 0.9660 | 1.0740 | -11.2 | 113 | 0.00 |
| 28 | Vinyl Acetate | 0.1112 | 0.1144 | -2.9 | 106 | 0.00 |
| 29 | DIPE | 1.7888 | 2.3365 | -30.6# | 134 | 0.00 NT |
| 30 | 2-Chloro-1,3-Butadiene | 0.8303 | 1.0295 | -24.0# | 126 | 0.00 (1) |
| 31 | ETBE | 1.6197 | 1.7486 | -8.0 | 111 | 0.00 |
| 32 | 2,2-Dichloropropane | 0.7364 | 0.6615 | 10.2 | 88 | 0.00 |
| 33 P | cis-1,2-Dichloroethene | 0.5493 | 0.5820 | -6.0 | 106 | 0.00 |
| 34 P | 2-Butanone | 0.3977 | 0.4604 | -15.8 | 125 | 0.00 |
| 35 | Propionitrile | 0.1178 | 0.1320 | -12.1 | 117 | 0.00 |
| 36 | Bromochloromethane | 0.3394 | 0.3531 | -4.0 | 106 | 0.00 |
| 37 | Methacrylonitrile | 0.2835 | 0.2974 | -4.9 | 108 | 0.00 |
| 38 | Tetrahydrofuran | 0.2463 | 0.2941 | -19.4 | 124 | 0.00 |
| 39 P | Chloroform | 0.8846 | 0.9686 | -9.5 | 110 | 0.00 |
| 40 P | 1,1,1-Trichloroethane | 0.7469 | 0.7500 | -0.4 | 102 | 0.00 |
| 41 i | 1,4-Difluorobenzene | 1.0000 | 1.0000 | 0.0 | 99 | 0.00 |
| 42 P | Cyclohexane | 0.3672 | 0.4379 | -19.3 | 132 | 0.00 |
| 43 s | surr4,Dibrflmethane | 0.3369 | 0.3240 | 3.8 | 90 | 0.00 |
| 44 P | Carbontetrachloride | 0.3690 | 0.3806 | -3.1 | 101 | 0.00 |
| 45 | 1,1-Dichloropropene | 0.4674 | 0.5097 | -9.1 | 110 | 0.00 |
| 46 s | surr1,1,2-dichloroethane-d4 | 0.4431 | 0.4472 | -0.9 | 96 | 0.00 |
| 47 P | Benzene | 1.3327 | 1.4479 | -8.6 | 110 | 0.00 |
| 48 P | 1,2-Dichloroethane | 0.5302 | 0.5938 | -12.0 | 117 | 0.00 |
| 49 | Iso-Butyl Alcohol | 0.0249 | 0.0269 | -8.0 | 113 | -0.01 |
| 50 | TAME | 0.9798 | 1.0332 | -5.5 | 107 | 0.00 |
| 51 | n-Heptane | 0.4509 | 0.6295 | -39.6# | 139 | 0.00 NT |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6099.D
Acq On : 25 Sep 2018 10:36 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 10:58:06 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
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) |
|------|-----------------------------|--------|--------|--------|-----------------|----------|
| 52 | 1-Butanol | 0.0136 | 0.0149 | -9.6 | 110 | -0.01 |
| 53 P | Trichloroethene | 0.3480 | 0.3448 | 0.9 | 103 | 0.00 |
| 54 P | Methylcyclohexane | 0.4434 | 0.5143 | -16.0 | 124 | 0.00 |
| 55 P | 1,2-Diclp propane | 0.3707 | 0.4075 | -9.9 | 110 | 0.00 |
| 56 | Dibromomethane | 0.2205 | 0.2381 | -8.0 | 109 | 0.00 |
| 57 | 1,4-Dioxane | 0.0064 | 0.0061 | 4.7 | 99 | 0.00 |
| 58 | Methyl Methacrylate | 0.2904 | 0.3084 | -6.2 | 107 | 0.00 |
| 59 P | Bromodichloromethane | 0.4109 | 0.4538 | -10.4 | 109 | 0.00 |
| 60 | 2-Nitropropane | 0.0696 | 0.0966 | -38.8# | 141 | 0.00 NT |
| 61 | 2-Chloroethylvinyl Ether | 0.2002 | 0.2050 | -2.4 | 100 | 0.00 |
| 62 P | cis-1,3-Dichloropropene | 0.5039 | 0.5743 | -14.0 | 105 | 0.00 |
| 63 P | 4-Methyl-2-pentanone | 0.4833 | 0.5688 | -17.7 | 120 | 0.00 |
| 64 s | SURR3,Toluene-d8 | 1.3662 | 1.3265 | 2.9 | 92 | 0.00 |
| 65 P | Toluene | 1.4326 | 1.5567 | -8.7 | 109 | 0.00 |
| 66 P | trans-1,3-Dichloropropene | 0.4563 | 0.4801 | -5.2 | 97 | 0.00 |
| 67 | Ethyl Methacrylate | 0.4749 | 0.5291 | -11.4 | 108 | 0.00 |
| 68 P | 1,1,2-Trichloroethane | 0.3169 | 0.3246 | -2.4 | 104 | 0.00 |
| 69 s | SURR2,BFB | 0.5250 | 0.5309 | -1.1 | 95 | 0.00 |
| 70 i | d5-Chlorobenzene | 1.0000 | 1.0000 | 0.0 | 98 | 0.00 |
| 71 P | Tetrachloroethene | 0.3110 | 0.3139 | -0.9 | 108 | 0.00 |
| 72 P | 2-Hexanone | 0.4218 | 0.4670 | -10.7 | 115 | 0.00 |
| 73 | 1,3-Dichloropropene | 0.6375 | 0.6903 | -8.3 | 107 | 0.00 |
| 74 P | Dibromochloromethane | 0.3318 | 0.3539 | -6.7 | 103 | 0.00 |
| 75 | N-Butyl Acetate | 0.7995 | 0.9313 | -16.5 | 117 | 0.00 |
| 76 P | 1,2-Dibromoethane | 0.3669 | 0.3807 | -3.8 | 104 | 0.00 |
| 77 | 3-Chlorobenzotrifluoride | 0.5609 | 0.6155 | -9.7 | 124 | 0.00 |
| 78 P | Chlorobenzene | 1.0567 | 1.0950 | -3.6 | 105 | 0.00 |
| 79 | 4-Chlorobenzotrifluoride | 0.4991 | 0.5585 | -11.9 | 125 | 0.00 |
| 80 | 1,1,1,2-Tetrachloroethane | 0.3277 | 0.3513 | -7.2 | 103 | 0.00 |
| 81 P | Ethylbenzene | 0.5533 | 0.5867 | -6.0 | 106 | 0.00 |
| 82 P | (m+p)Xylene | 0.6878 | 0.7486 | -8.8 | 109 | 0.00 |
| 83 P | o-Xylene | 0.6841 | 0.7178 | -4.9 | 106 | 0.00 |
| 84 P | Styrene | 1.1007 | 1.2476 | -13.3 | 107 | 0.00 |
| 85 P | Bromoform | 0.2127 | 0.2398 | +8.3 | 12.7 | 104 0.00 |
| 86 | 2-Chlorobenzotrifluoride | 0.5409 | 0.5893 | -8.9 | 118 | 0.00 |
| 87 P | Isopropylbenzene | 1.7367 | 1.9161 | -10.3 | 107 | 0.00 |
| 88 | Cyclohexanone | 0.0833 | 0.0954 | -14.5 | 110 | 0.00 |
| 89 | trans-1,4-Dichloro-2-Butene | 0.1183 | 0.1330 | +6.7 | 12.4 | 104 0.00 |
| 90 i | 1,4-Dichlorobenzene-d4 | 1.0000 | 1.0000 | 0.0 | 101 | 0.00 |
| 91 P | 1,1,2,2-Tetrachloroethane | 0.9501 | 1.0052 | -5.8 | 110 | 0.00 |
| 92 | Bromobenzene | 0.8364 | 0.8344 | 0.2 | 105 | 0.00 |
| 93 | 1,2,3-Trichloropropene | 0.2929 | 0.2867 | 2.1 | 100 | 0.00 |
| 94 | n-Propylbenzene | 3.6871 | 4.1053 | -11.3 | 112 | 0.00 |
| 95 | 2-Chlorotoluene | 2.2238 | 2.2954 | -3.2 | 108 | 0.00 |
| 96 | 3-Chlorotoluene | 2.1968 | 2.2896 | -4.2 | 116 | 0.00 |
| 97 | 4-Chlorotoluene | 2.6522 | 2.8303 | -6.7 | 111 | 0.00 |
| 98 | 1,3,5-Trimethylbenzene | 2.5618 | 2.7739 | -8.3 | 108 | 0.00 |
| 99 | tert-Butylbenzene | 2.2480 | 2.3674 | -5.3 | 109 | 0.00 |
| 100 | 1,2,4-Trimethylbenzene | 2.5509 | 2.7159 | -6.5 | 108 | 0.00 |
| 101 | 3,4-Dichlorobenzotrifluorid | 0.8195 | 0.9011 | -10.0 | 121 | 0.00 |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6099.D
 Acq On : 25 Sep 2018 10:36 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 10:58:06 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 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) |
|-------|-----------------------------|--------|--------|-------|-------|----------|
| 102 | sec-Butylbenzene | 3.2497 | 3.5853 | -10.3 | 111 | 0.00 |
| 103 | p-Isopropyltoluene | 2.7735 | 2.9858 | -7.7 | 110 | 0.00 |
| 104 P | 1,3-Dclbenz | 1.5381 | 1.5831 | -2.9 | 107 | 0.00 |
| 105 P | 1,4-Dclbenz | 1.6241 | 1.6159 | 0.5 | 106 | 0.00 |
| 106 | 2,4-Dichlorobenzotrifluorid | 0.7307 | 0.8157 | -11.6 | 121 | 0.00 |
| 107 | 2,5-Dichlorobenzotrifluorid | 0.8442 | 0.9149 | -8.4 | 121 | 0.00 |
| 108 | n-Butylbenzene | 2.6519 | 2.9501 | -11.2 | 113 | 0.00 |
| 109 P | 1,2-Dclbenz | 1.5604 | 1.5172 | 2.8 | 104 | 0.00 |
| 110 P | 1,2-Dibromo-3-chloropropane | 0.1946 | 0.1715 | 11.9 | 90 | 0.00 |
| 111 | Trielution Dichlorotoluene | 1.2741 | 1.3465 | -5.7 | 113 | 0.00 |
| 112 | 1,3,5-Trichlorobenzene | 1.1311 | 1.2013 | -6.2 | 116 | 0.00 |
| 113 | Coelution Dichlorotoluene | 1.4068 | 1.4725 | -4.7 | 110 | 0.00 |
| 114 P | 1,2,4-Tcbenzene | 1.1092 | 1.1833 | -6.7 | 109 | 0.00 |
| 115 | Hexachlorobt | 0.4849 | 0.5409 | -11.5 | 112 | 0.00 |
| 116 | Naphthalen | 2.8757 | 3.0313 | -5.4 | 102 | 0.00 |
| 117 | 1,2,3-Tclbenzene | 1.0907 | 1.1130 | -2.0 | 106 | 0.00 |
| 118 | 2,4,5-Trichlorotoluene | 0.6924 | 0.7666 | -10.7 | 108 | 0.00 |
| 119 | 2,3,6-Trichlorotoluene | 0.6519 | 0.7099 | -8.9 | 113 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6099.D
Acq On : 25 Sep 2018 10:36 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 10:58:06 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|-------------------------------|--------|----------------|----------|--------|---------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 214177 | 50.00 | ug/L | 0.00 | |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 329483 | 50.00 | ug/L | 0.00 | |
| 70) d5-Chlorobenzene | 9.805 | 117 | 291886 | 50.00 | ug/L | 0.00 | |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 171125 | 50.00 | ug/L | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 43) surr4,Dibrflmethane | 5.245 | 113 | 106739 | 48.07 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 96.14% | | |
| 46) surr1,1,2-dichloroetha... | 5.787 | 65 | 147360 | 50.47 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 100.94% | | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 437069 | 48.55 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 97.10% | | |
| 69) SURR2,BFB | 10.878 | 95 | 174931 | 50.56 | ug/L | 0.00 | |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 101.12% | | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.154 | 85 | 130566 | 45.66 | ug/L | | 98 |
| 3) Chloromethane | 1.282 | 50 | 172042 | 55.08 | ug/L | | 93 |
| 4) Vinyl Chloride | 1.361 | 62 | 154236 | 49.75 | ug/L | | 97 |
| 5) Bromomethane | 1.587 | 94 | 108382 | 42.30 | ug/L | | 99 |
| 6) Chloroethane | 1.666 | 64 | 94632 | 48.83 | ug/L | | 94 |
| 7) Freon 21 | 1.812 | 67 | 231863 | 48.95 | ug/L | | 99 |
| 8) Trichlorofluoromethane | 1.861 | 101 | 169669 | 48.68 | ug/L | | 100 |
| 9) Diethyl Ether | 2.093 | 59 | 109400 | 55.45 | ug/L | | 93 |
| 10) Freon 123a | 2.099 | 67 | 144972 | 53.32 | ug/L | | 94 |
| 11) Freon 123 | 2.148 | 83 | 150780 | 49.96 | ug/L | | 99 |
| 12) Acrolein | 2.196 | 56 | 174923 | 274.75 | ug/L | | 97 |
| 13) 1,1-Diclcethene | 2.282 | 96 | 101605 | 51.47 | ug/L | | 91 |
| 14) Freon 113 | 2.294 | 101 | 103559 | 52.66 | ug/L | | 97 |
| 15) Acetone | 2.324 | 43 | 75331 | 59.79 | ug/L | | 91 |
| 16) 2-Propanol | 2.465 | 45 | 232117 | 952.77 | ug/L | | 96 |
| 17) Iodomethane | 2.416 | 142 | 129543 | 50.16 | ug/L | | 97 |
| 18) Carbon Disulfide | 2.477 | 76 | 309578 | 57.51 | ug/L | | 97 |
| 19) Acetonitrile | 2.574 | 41 | 134634 | 293.95 | ug/L | | 95 |
| 20) Allyl Chloride | 2.617 | 76 | 46970 | 48.80 | ug/L | # | 69 |
| 21) Methyl Acetate | 2.635 | 43 | 143857 | 57.29 | ug/L | | 96 |
| 22) Methylene Chloride | 2.733 | 84 | 120204 | 52.19 | ug/L | | 92 |
| 23) TBA | 2.867 | 59 | 339358 | 929.89 | ug/L | | 91 |
| 24) Acrylonitrile | 2.989 | 53 | 357709 | 287.19 | ug/L | | 98 |
| 25) Methyl-t-Butyl Ether | 3.038 | 73 | 381592 | 52.11 | ug/L | | 97 |
| 26) trans-1,2-Dichloroethene | 3.032 | 96 | 114287 | 54.13 | ug/L | | 97 |
| 27) 1,1-Diclcethane | 3.531 | 63 | 230024 | 55.59 | ug/L | | 98 |
| 28) Vinyl Acetate | 3.623 | 86 | 24506 | 51.45 | ug/L | # | 36 |
| 29) DIPE | 3.653 | 45 | 500428 | 65.31 | ug/L | | 94 |
| 30) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 220490 | 61.99 | ug/L | | 93 |
| 31) ETBE | 4.184 | 59 | 374503 | 53.98 | ug/L | | 97 |
| 32) 2,2-Dichloropropane | 4.367 | 77 | 141669 | 44.91 | ug/L | | 98 |
| 33) cis-1,2-Dichloroethene | 4.367 | 96 | 124655 | 52.98 | ug/L | | 92 |
| 34) 2-Butanone | 4.415 | 43 | 98613m | 57.89 | ug/L | | |
| 35) Propionitrile | 4.501 | 54 | 141405 | 280.20 | ug/L | | 95 |
| 36) Bromochloromethane | 4.769 | 130 | 75619 | 52.01 | ug/L | | 86 |
| 37) Methacrylonitrile | 4.769 | 67 | 63690 | 52.45 | ug/L | # | 79 |
| 38) Tetrahydrofuran | 4.861 | 42 | 62983 | 59.70 | ug/L | | 91 |
| 39) Chloroform | 4.952 | 83 | 207454 | 54.75 | ug/L | | 93 |
| 40) 1,1,1-Trichloroethane | 5.257 | 97 | 160642 | 50.21 | ug/L | | 97 |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6099.D
Acq On : 25 Sep 2018 10:36 am
Operator : D.LIPANI
Sample : CCV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Sep 25 10:58:06 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|---------|--------|----------|
| 42) Cyclohexane | 5.336 | 41 | 144276 | 59.63 | ug/L | 98 |
| 44) Carbontetrachloride | 5.531 | 117 | 125388 | 51.56 | ug/L | 94 |
| 45) 1,1-Dichloropropene | 5.543 | 75 | 167928 | 54.52 | ug/L | 95 |
| 47) Benzene | 5.860 | 78 | 477073 | 54.32 | ug/L | 94 |
| 48) 1,2-Dichloroethane | 5.903 | 62 | 195633 | 55.99 | ug/L | 96 |
| 49) Iso-Butyl Alcohol | 5.885 | 43 | 177196 | 1082.04 | ug/L | 100 |
| 50) TAME | 6.104 | 73 | 340417 | 52.73 | ug/L | 93 |
| 51) n-Heptane | 6.354 | 43 | 207407 | 69.80 | ug/L | 94 |
| 52) 1-Butanol | 6.854 | 56 | 245150 | 2713.48 | ug/L | 99 |
| 53) Trichloroethene | 6.817 | 130 | 113597 | 49.53 | ug/L | 98 |
| 54) Methylcyclohexane | 7.055 | 55 | 169452 | 58.00 | ug/L | 92 |
| 55) 1,2-Diclpropane | 7.104 | 63 | 134255 | 54.95 | ug/L | 96 |
| 56) Dibromomethane | 7.244 | 93 | 78458 | 54.00 | ug/L | 93 |
| 57) 1,4-Dioxane | 7.299 | 88 | 40404 | 955.99 | ug/L | 85 |
| 58) Methyl Methacrylate | 7.330 | 69 | 101619 | 53.10 | ug/L | 93 |
| 59) Bromodichloromethane | 7.470 | 83 | 149509 | 55.22 | ug/L | 99 |
| 60) 2-Nitropropane | 7.756 | 41 | 63644 | 138.79 | ug/L | 94 |
| 61) 2-Chloroethylvinyl Ether | 7.878 | 63 | 67557 | 51.21 | ug/L | 92 |
| 62) cis-1,3-Dichloropropene | 8.012 | 75 | 189211 | 56.99 | ug/L | 98 |
| 63) 4-Methyl-2-pentanone | 8.220 | 43 | 187422 | 58.84 | ug/L | 94 |
| 65) Toluene | 8.384 | 91 | 512918 | 54.33 | ug/L | 96 |
| 66) trans-1,3-Dichloropropene | 8.652 | 75 | 158188 | 52.61 | ug/L | 96 |
| 67) Ethyl Methacrylate | 8.799 | 69 | 174317 | 55.70 | ug/L | 94 |
| 68) 1,1,2-Trichloroethane | 8.841 | 97 | 106964 | 51.23 | ug/L | 93 |
| 71) Tetrachloroethene | 8.982 | 164 | 91622 | 50.47 | ug/L | 96 |
| 72) 2-Hexanone | 9.134 | 43 | 136317 | 55.36 | ug/L | 95 |
| 73) 1,3-Dichloropropane | 9.012 | 76 | 201487 | 54.14 | ug/L | 90 |
| 74) Dibromochloromethane | 9.238 | 129 | 103305 | 53.34 | ug/L | 99 |
| 75) N-Butyl Acetate | 9.293 | 43 | 271842 | 58.24 | ug/L | 94 |
| 76) 1,2-Dibromoethane | 9.335 | 107 | 111120 | 51.88 | ug/L | 100 |
| 77) 3-Chlorobenzotrifluoride | 9.847 | 180 | 179644 | 54.87 | ug/L | 98 |
| 78) Chlorobenzene | 9.829 | 112 | 319614 | 51.81 | ug/L | 94 |
| 79) 4-Chlorobenzotrifluoride | 9.902 | 180 | 163004 | 55.94 | ug/L | 99 |
| 80) 1,1,1,2-Tetrachloroethane | 9.914 | 131 | 102539 | 53.60 | ug/L | 94 |
| 81) Ethylbenzene | 9.951 | 106 | 171240 | 53.01 | ug/L | 93 |
| 82) (m+p)Xylene | 10.061 | 106 | 436998 | 108.83 | ug/L | 100 |
| 83) o-Xylene | 10.420 | 106 | 209512 | 52.46 | ug/L | 97 |
| 84) Styrene | 10.433 | 104 | 364169 | 56.68 | ug/L | 99 |
| 85) Bromoform | 10.585 | 173 | 69994 | 54.17 | ug/L | 96 |
| 86) 2-Chlorobenzotrifluoride | 10.664 | 180 | 172013 | 54.48 | ug/L | 98 |
| 87) Isopropylbenzene | 10.756 | 105 | 559283 | 55.17 | ug/L | 99 |
| 88) Cyclohexanone | 10.817 | 55 | 556952 | 1146.01 | ug/L | 95 |
| 89) trans-1,4-Dichloro-2-B... | 11.061 | 53 | 38830 | 53.35 | ug/L | 84 |
| 91) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 172013 | 52.90 | ug/L | 97 |
| 92) Bromobenzene | 11.000 | 156 | 142781 | 49.88 | ug/L | 90 |
| 93) 1,2,3-Trichloropropane | 11.042 | 110 | 49055 | 48.94 | ug/L # | 86 |
| 94) n-Propylbenzene | 11.109 | 91 | 702511 | 55.67 | ug/L | 98 |
| 95) 2-Chlorotoluene | 11.176 | 91 | 392803 | 51.61 | ug/L | 99 |
| 96) 3-Chlorotoluene | 11.225 | 91 | 391800 | 52.11 | ug/L | 97 |
| 97) 4-Chlorotoluene | 11.268 | 91 | 484341 | 53.36 | ug/L | 96 |
| 98) 1,3,5-Trimethylbenzene | 11.262 | 105 | 474684 | 54.14 | ug/L | 98 |
| 99) tert-Butylbenzene | 11.536 | 119 | 405116 | 52.66 | ug/L | 100 |
| 100) 1,2,4-Trimethylbenzene | 11.573 | 105 | 464766 | 53.24 | ug/L | 100 |
| 101) 3,4-Dichlorobenzotrifl... | 11.634 | 214 | 154208 | 54.98 | ug/L | 97 |
| 102) sec-Butylbenzene | 11.719 | 105 | 613528 | 55.16 | ug/L | 99 |
| 103) p-Isopropyltoluene | 11.841 | 119 | 510943 | 53.83 | ug/L | 98 |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
 Data File : D6099.D
 Acq On : 25 Sep 2018 10:36 am
 Operator : D.LIPANI
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 25 10:58:06 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 104) 1,3-Dclbenz | 11.798 | 146 | 270905 | 51.46 | ug/L | 100 |
| 105) 1,4-Dclbenz | 11.871 | 146 | 276517 | 49.75 | ug/L | 99 |
| 106) 2,4-Dichlorobenzotrifl... | 11.926 | 214 | 139591 | 55.81 | ug/L | 96 |
| 107) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 156564 | 54.19 | ug/L | 99 |
| 108) n-Butylbenzene | 12.176 | 91 | 504832 | 55.62 | ug/L | 98 |
| 109) 1,2-Dclbenz | 12.176 | 146 | 259624 | 48.61 | ug/L | 98 |
| 110) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 29350 | 44.07 | ug/L | 88 |
| 111) Trielution Dichlorotol... | 12.920 | 125 | 691273 | 158.53 | ug/L | 95 |
| 112) 1,3,5-Trichlorobenzene | 12.975 | 180 | 205565 | 53.10 | ug/L | 94 |
| 113) Coelution Dichlorotoluene | 13.249 | 125 | 503953 | 104.67 | ug/L | 96 |
| 114) 1,2,4-Tcbenzene | 13.456 | 180 | 202485 | 53.34 | ug/L | 99 |
| 115) Hexachlorobt | 13.597 | 225 | 92553 | 55.77 | ug/L | 98 |
| 116) Naphthalen | 13.645 | 128 | 518732 | 52.70 | ug/L | 100 |
| 117) 1,2,3-Tclbenzene | 13.834 | 180 | 190457 | 51.02 | ug/L | 98 |
| 118) 2,4,5-Trichlorotoluene | 14.420 | 159 | 131192 | 55.36 | ug/L | 97 |
| 119) 2,3,6-Trichlorotoluene | 14.505 | 159 | 121476 | 54.45 | ug/L | 97 |

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

Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6059.D
 Acq On : 24 Sep 2018 9:03 am
 Operator : D.LIPANI
 Sample : TUNE CHECK Inst : MSVOA10
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 09:18:01 2018
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
 QLast Update : Wed Aug 22 12:58:20 2018
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 214932 | 50.00 | ug/L | 0.00 |
| 41) 1,4-Difluorobenzene | 6.488 | 114 | 330891 | 50.00 | ug/L | 0.00 |
| 70) d5-Chlorobenzene | 9.805 | 117 | 293339 | 50.00 | ug/L | 0.00 |
| 90) 1,4-Dichlorobenzene-d4 | 11.853 | 152 | 155064 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) surr4,Dibrflmethane | 5.244 | 113 | 108724 | 48.76 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 89 - 119 | Recovery | = | 97.52% | |
| 46) surr1,1,2-dichloroetha... | 5.781 | 65 | 156588 | 53.40 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 73 - 125 | Recovery | = | 106.80% | |
| 64) SURR3,Toluene-d8 | 8.311 | 98 | 458969 | 50.77 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 87 - 121 | Recovery | = | 101.54% | |
| 69) SURR2,BFB | 10.878 | 95 | 169601 | 48.81 | ug/L | 0.00 |
| Spiked Amount | 50.000 | Range 85 - 122 | Recovery | = | 97.62% | |
| Target Compounds | | | | | | |
| 5) Bromomethane | 1.587 | 94 | 361 | Below Cal | # | 36 |
| 6) Chloroethane | 1.660 | 64 | 698 | 0.36 | ug/L # | 52 |
| 15) Acetone | 2.337 | 43 | 468 | 0.37 | ug/L # | 50 |
| 21) Methyl Acetate | 2.641 | 43 | 546 | 0.22 | ug/L # | 51 |
| 38) Tetrahydrofuran | 4.891 | 42 | 479 | 0.45 | ug/L # | 51 |
| 88) Cyclohexanone | 10.871 | 55 | 627 | 1.28 | ug/L # | 14 |

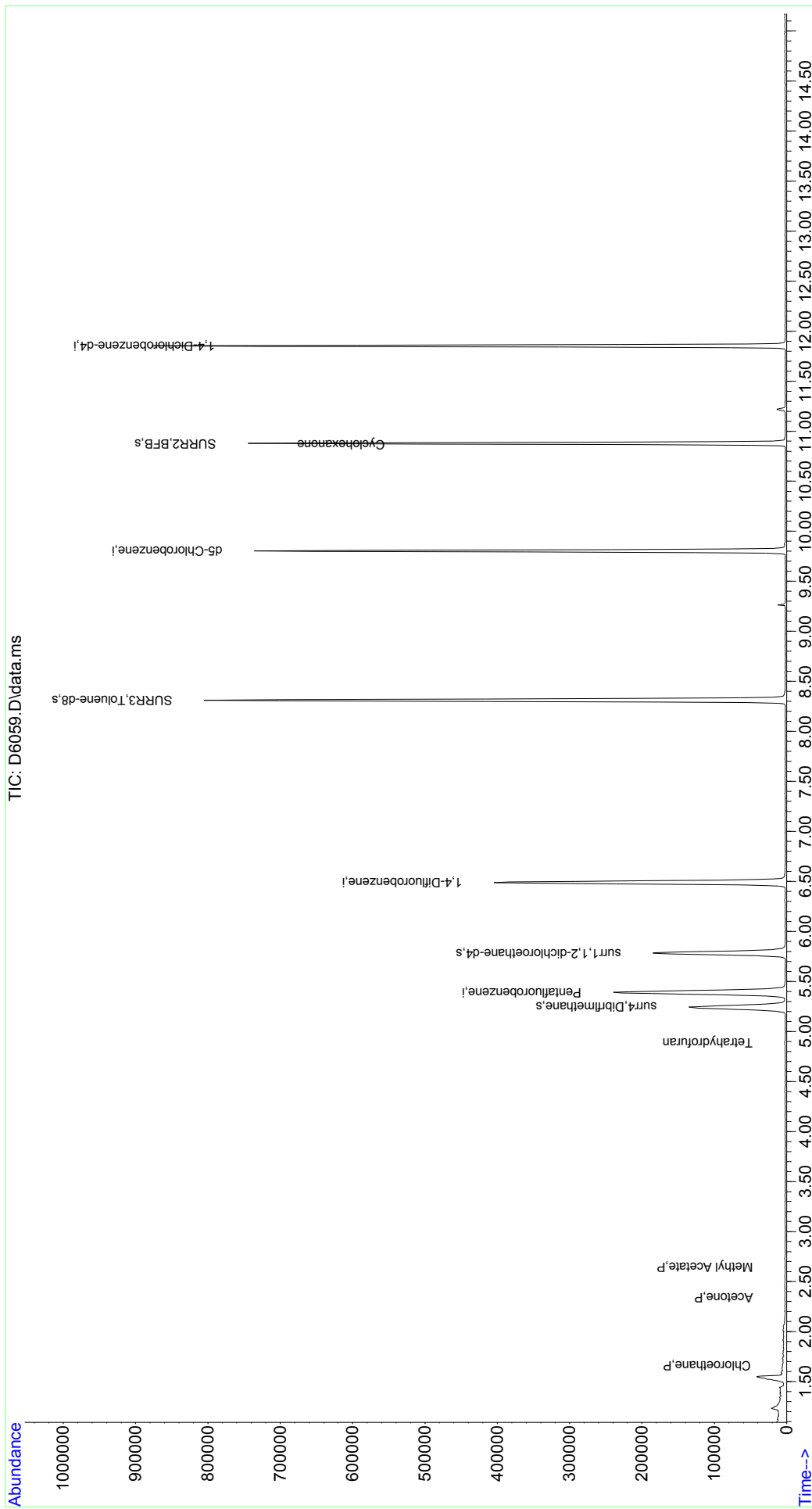
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092418\
Data File : D6059.D
Acq On : 24 Sep 2018 9:03 am
Operator : D.LIPANI
Sample : TUNE CHECK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

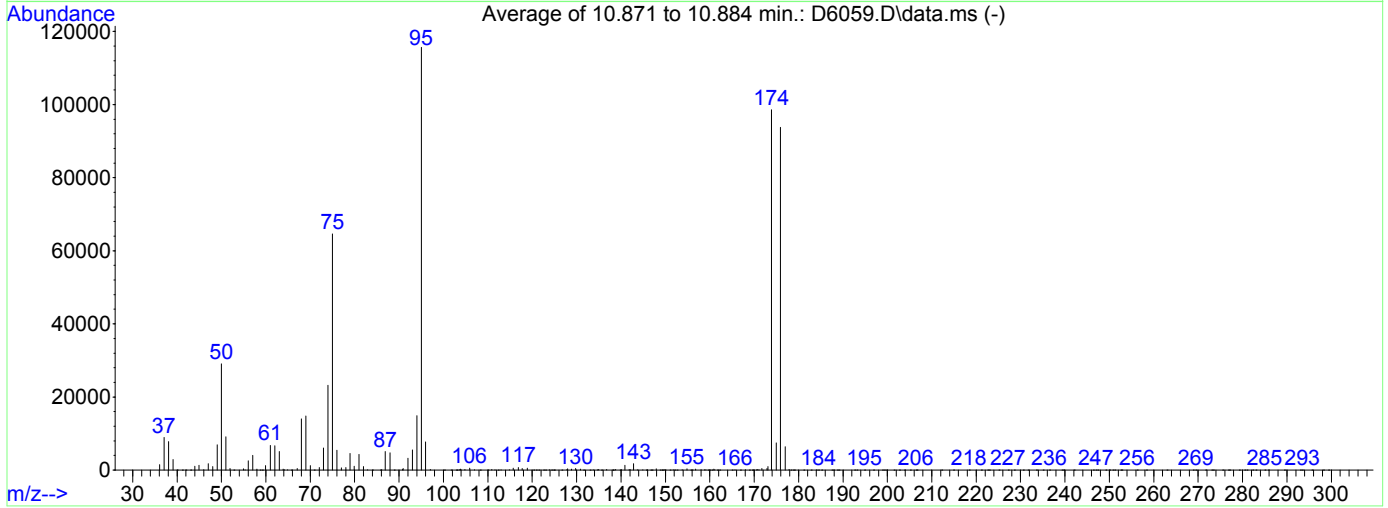
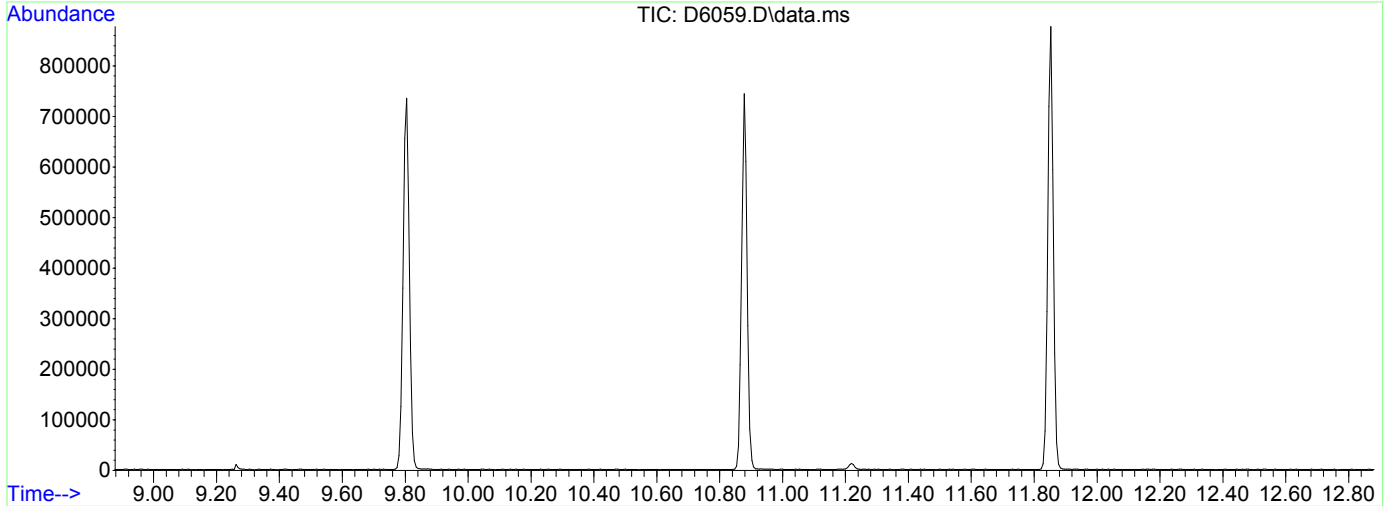
Quant Time: Sep 24 09:18:01 2018
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Wed Aug 22 12:58:20 2018
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\092418\
 Data File : D6059.D
 Acq On : 24 Sep 2018 9:03 am
 Operator : D.LIPANI
 Sample : TUNE CHECK Inst : MSVOA10
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
 Title : MS#10 - 8260B WATERS 5.0mL Purge
 Last Update : Wed Aug 22 12:58:20 2018



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1598

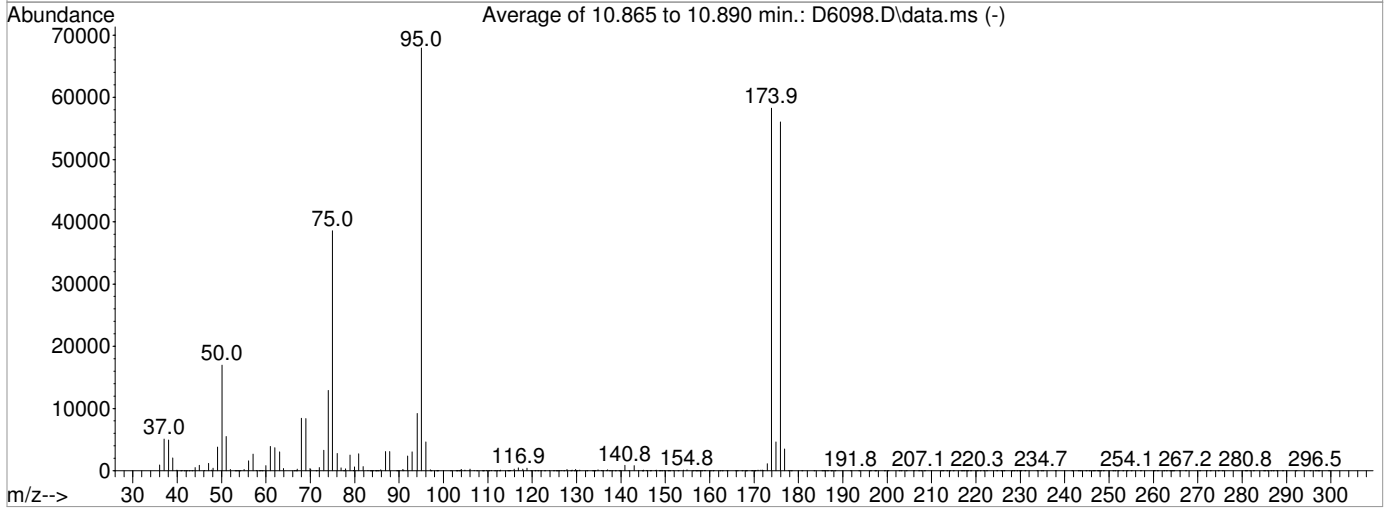
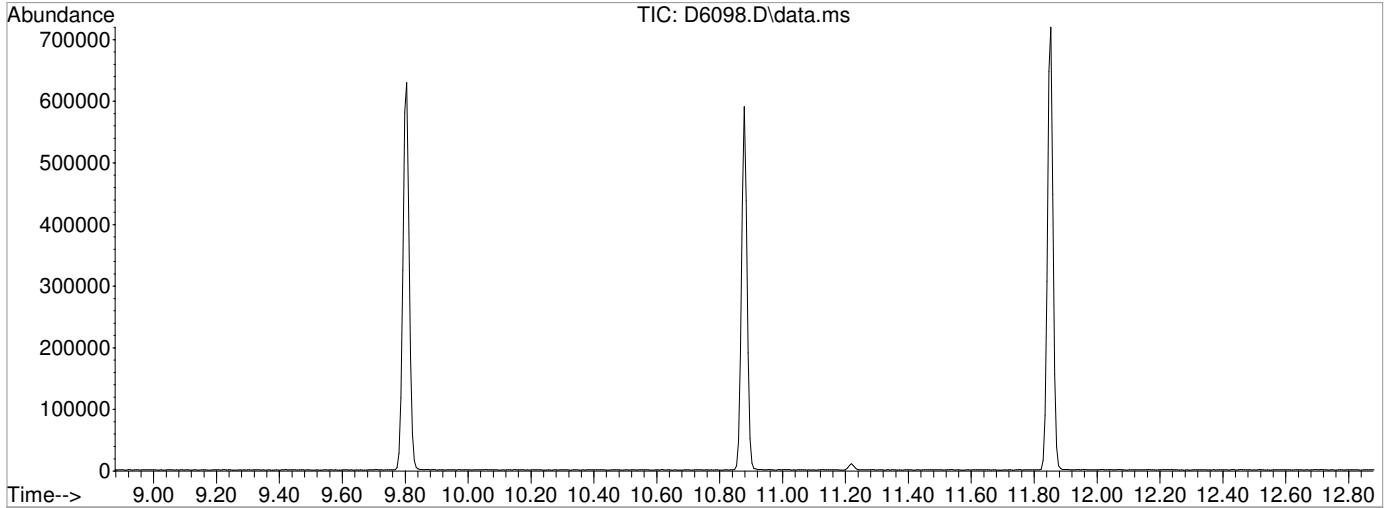
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 25.1 | 29029 | PASS |
| 75 | 95 | 30 | 60 | 55.9 | 64645 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 115651 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 7717 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 963 | PASS |
| 174 | 95 | 50 | 120 | 85.2 | 98552 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 7447 | PASS |
| 176 | 174 | 95 | 101 | 95.1 | 93752 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 6439 | PASS |

Data Path : I:\ACQUDATA\msvoa10\data\092518\
Data File : D6098.D
Acq On : 25 Sep 2018 10:01 am
Operator : D.LIPANI
Sample : TUNE CHECK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Integration File: RTEINT.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W082118.M
Title : MS#10 - 8260B WATERS 5.0mL Purge
Last Update : Wed Aug 22 12:58:20 2018



Spectrum Information: Average of 10.865 to 10.890 min.

Sub. Scan = 1600

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 25.0 | 16952 | PASS |
| 75 | 95 | 30 | 60 | 56.8 | 38552 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 67923 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 4637 | PASS |
| 173 | 174 | 0.00 | 2 | 2.0 | 1150 | PASS |
| 174 | 95 | 50 | 120 | 85.8 | 58274 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 4613 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 56026 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 3513 | PASS |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|------------------|--|------------------|
| 09 | RC1800095-09 | STD #1 - 0.5 PPB | I:\ACQUADATA\msvoa10\data\082118\D5431.D | 08/21/2018 14:58 |
| 08 | RC1800095-08 | STD #2 - 1.0 PPB | I:\ACQUADATA\msvoa10\data\082118\D5432.D | 08/21/2018 15:20 |
| 07 | RC1800095-07 | STD #3 - 2.0 PPB | I:\ACQUADATA\msvoa10\data\082118\D5433.D | 08/21/2018 15:42 |
| 06 | RC1800095-06 | STD #4 - 5.0 PPB | I:\ACQUADATA\msvoa10\data\082118\D5434.D | 08/21/2018 16:03 |
| 05 | RC1800095-05 | STD #5 - 20 PPB | I:\ACQUADATA\msvoa10\data\082118\D5435.D | 08/21/2018 16:25 |
| 04 | RC1800095-04 | STD #6 - 50 PPB | I:\ACQUADATA\msvoa10\data\082118\D5436.D | 08/21/2018 16:47 |
| 03 | RC1800095-03 | STD #7 - 100 PPB | I:\ACQUADATA\msvoa10\data\082118\D5437.D | 08/21/2018 17:09 |
| 02 | RC1800095-02 | STD #8 - 150 PPB | I:\ACQUADATA\msvoa10\data\082118\D5438.D | 08/21/2018 17:31 |
| 01 | RC1800095-01 | STD #9 - 200 PPB | I:\ACQUADATA\msvoa10\data\082118\D5439.D | 08/21/2018 17:53 |

Analyte

1,1,1-Trichloroethane (TCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.8757 | 08 | 1.000 | 0.7331 | 07 | 2.000 | 0.7119 | 06 | 5.000 | 0.7032 |
| 05 | 20.000 | 0.7316 | 04 | 50.000 | 0.728 | 03 | 100.000 | 0.751 | 02 | 150.000 | 0.746 |
| 01 | 200.000 | 0.7416 | | | | | | | | | |

1,1-Dichloroethane (1,1-DCA)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 1.046 | 08 | 1.000 | 0.985 | 07 | 2.000 | 0.9764 | 06 | 5.000 | 0.943 |
| 05 | 20.000 | 0.9708 | 04 | 50.000 | 0.9369 | 03 | 100.000 | 0.9651 | 02 | 150.000 | 0.9414 |
| 01 | 200.000 | 0.9299 | | | | | | | | | |

1,1-Dichloroethene (1,1-DCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.5024 | 08 | 1.000 | 0.437 | 07 | 2.000 | 0.4419 | 06 | 5.000 | 0.4712 |
| 05 | 20.000 | 0.4629 | 04 | 50.000 | 0.4463 | 03 | 100.000 | 0.4632 | 02 | 150.000 | 0.4637 |
| 01 | 200.000 | 0.4592 | | | | | | | | | |

4-Bromofluorobenzene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|--------|----|---------|--------|
| 06 | 10.000 | 0.5925 | 05 | 20.000 | 0.4991 | 04 | 50.000 | 0.5551 | 03 | 100.000 | 0.4954 |
| 02 | 200.000 | 0.483 | | | | | | | | | |

Dibromofluoromethane

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|--------|--------|----|---------|--------|
| 06 | 10.000 | 0.3863 | 05 | 20.000 | 0.3219 | 04 | 50.000 | 0.3561 | 03 | 100.000 | 0.3143 |
| 02 | 200.000 | 0.3062 | | | | | | | | | |

Tetrachloroethene (PCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.3572 | 08 | 1.000 | 0.3121 | 07 | 2.000 | 0.3045 | 06 | 5.000 | 0.279 |
| 05 | 20.000 | 0.301 | 04 | 50.000 | 0.2871 | 03 | 100.000 | 0.309 | 02 | 150.000 | 0.3241 |
| 01 | 200.000 | 0.3245 | | | | | | | | | |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

Analyte

Toluene-d8

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|-------|----|--------|-------|----|--------|-------|----|---------|-------|
| 06 | 10.000 | 1.643 | 05 | 20.000 | 1.284 | 04 | 50.000 | 1.427 | 03 | 100.000 | 1.269 |
| 02 | 200.000 | 1.207 | | | | | | | | | |

Trichloroethene (TCE)

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.3826 | 08 | 1.000 | 0.3369 | 07 | 2.000 | 0.3521 | 06 | 5.000 | 0.3404 |
| 05 | 20.000 | 0.3566 | 04 | 50.000 | 0.3304 | 03 | 100.000 | 0.3431 | 02 | 150.000 | 0.3452 |
| 01 | 200.000 | 0.3448 | | | | | | | | | |

Vinyl Chloride

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.7256 | 08 | 1.000 | 0.7718 | 07 | 2.000 | 0.7174 | 06 | 5.000 | 0.7172 |
| 05 | 20.000 | 0.7297 | 04 | 50.000 | 0.6977 | 03 | 100.000 | 0.7117 | 02 | 150.000 | 0.7269 |
| 01 | 200.000 | 0.716 | | | | | | | | | |

cis-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.5299 | 08 | 1.000 | 0.5929 | 07 | 2.000 | 0.5369 | 06 | 5.000 | 0.5306 |
| 05 | 20.000 | 0.5602 | 04 | 50.000 | 0.5423 | 03 | 100.000 | 0.5614 | 02 | 150.000 | 0.5452 |
| 01 | 200.000 | 0.544 | | | | | | | | | |

trans-1,2-Dichloroethene

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|----|---------|--------|----|--------|--------|----|---------|--------|----|---------|--------|
| 09 | 0.500 | 0.5259 | 08 | 1.000 | 0.4833 | 07 | 2.000 | 0.4621 | 06 | 5.000 | 0.4805 |
| 05 | 20.000 | 0.5014 | 04 | 50.000 | 0.4907 | 03 | 100.000 | 0.5051 | 02 | 150.000 | 0.4941 |
| 01 | 200.000 | 0.4929 | | | | | | | | | |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

| Analyte Name | Compound Type | Calibration Evaluation | | | | Calibration Evaluation | |
|------------------------------|---------------|------------------------|-------|-------------|------------------|------------------------|-------------|
| | | Fit Type | Eval | Eval Result | Control Criteria | Average RRF | Minimum RRF |
| 1,1,1-Trichloroethane (TCA) | TRG | Average RF | % RSD | 6.8 | 20 | 0.7469 | 0.100 |
| 1,1-Dichloroethane (1,1-DCA) | TRG | Average RF | % RSD | 3.7 | 20 | 0.966 | 0.200 |
| 1,1-Dichloroethene (1,1-DCE) | TRG | Average RF | % RSD | 4.2 | 20 | 0.4609 | 0.100 |
| 4-Bromofluorobenzene | SURR | Average RF | % RSD | 8.9 | 20 | 0.525 | |
| Dibromofluoromethane | SURR | Average RF | % RSD | 9.9 | 20 | 0.3369 | |
| Tetrachloroethene (PCE) | TRG | Average RF | % RSD | 7.4 | 20 | 0.311 | 0.200 |
| Toluene-d8 | SURR | Average RF | % RSD | 12.8 | 20 | 1.366 | |
| Trichloroethene (TCE) | TRG | Average RF | % RSD | 4.3 | 20 | 0.348 | 0.200 |
| Vinyl Chloride | TRG | Average RF | % RSD | 2.8 | 20 | 0.7238 | 0.100 |
| cis-1,2-Dichloroethene | TRG | Average RF | % RSD | 3.6 | 20 | 0.5493 | 0.100 |
| trans-1,2-Dichloroethene | TRG | Average RF | % RSD | 3.6 | 20 | 0.4929 | 0.100 |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton

Service Request: R1809120
Calibration Date: 8/21/2018

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1800095
Instrument ID: R-MS-10

Signal ID: 1

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|----|--------------|-------------|---|------------------|
| 10 | RC1800095-10 | ICV 50 | I:\ACQUDATA\msvoa10\data\082118\D5444.D | 08/21/2018 19:42 |
| 11 | RC1800095-11 | ICV | I:\ACQUDATA\msvoa10\data\082218\D5449.D | 08/22/2018 10:27 |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|----------|--------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 46.8 | 7.469E-1 | 6.992E-1 | -6.384 | ±30 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 47.9 | 9.66E-1 | 9.252E-1 | -4.230 | ±30 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 45.3 | 4.609E-1 | 4.177E-1 | -9.370 | ±30 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 46.5 | 3.11E-1 | 2.889E-1 | -7.081 | ±30 | Average RF |
| Trichloroethene (TCE) | 50.0 | 47.8 | 3.48E-1 | 3.326E-1 | -4.434 | ±30 | Average RF |
| Vinyl Chloride | 50.0 | 45.0 | 7.238E-1 | 6.516E-1 | -9.969 | ±30 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 47.2 | 5.493E-1 | 5.185E-1 | -5.601 | ±30 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 47.5 | 4.929E-1 | 4.686E-1 | -4.932 | ±30 | Average RF |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|----------------------|----------|--------|------------|----------|------|----------|------------|
| 4-Bromofluorobenzene | 50.0 | 52.8 | 5.25E-1 | 5.542E-1 | 5.55 | ±30 | Average RF |
| Dibromofluoromethane | 50.0 | 52.4 | 3.369E-1 | 3.53E-1 | 4.76 | ±30 | Average RF |
| Toluene-d8 | 50.0 | 53.0 | 1.366E0 | 1.449E0 | 6.03 | ±30 | Average RF |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120
Date Analyzed: 09/24/18 09:41

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved**

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa10\data\092418\D6060.D\
Signal ID: 1

Calibration Date: 8/21/2018
Calibration ID: RC1800095
Analysis Lot: 607883
Units: ug/L

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|------|---------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 49.3 | 0.7469 | 0.7358 | -1.5 | NA | ±20 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 53.1 | 0.966 | 1.0254 | 6.1 | NA | ±20 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 49.3 | 0.4609 | 0.454 | -1.5 | NA | ±20 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 49.2 | 0.311 | 0.3063 | -1.5 | NA | ±20 | Average RF |
| Trichloroethene (TCE) | 50.0 | 48.0 | 0.348 | 0.3343 | -3.9 | NA | ±20 | Average RF |
| Vinyl Chloride | 50.0 | 46.8 | 0.7238 | 0.6773 | -6.4 | NA | ±20 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 50.9 | 0.5493 | 0.5593 | 1.8 | NA | ±20 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 51.5 | 0.4929 | 0.5077 | 3.0 | NA | ±20 | Average RF |

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|----------------------|----------|--------|------------|--------|-----|---------|----------|------------|
| 4-Bromofluorobenzene | 50.0 | 54.7 | 0.525 | 0.5744 | 9.4 | NA | ±20 | Average RF |
| Dibromofluoromethane | 50.0 | 50.4 | 0.3369 | 0.3398 | 0.8 | NA | ±20 | Average RF |
| Toluene-d8 | 50.0 | 52.6 | 1.3662 | 1.4369 | 5.2 | NA | ±20 | Average RF |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request: R1809120
Date Analyzed: 09/25/18 10:36

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved**

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa10\data\092518\D6099.D\
Signal ID: 1

Calibration Date: 8/21/2018
Calibration ID: RC1800095
Analysis Lot: 608092
Units: ug/L

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|------------------------------|----------|--------|------------|--------|------|---------|----------|------------|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 50.2 | 0.7469 | 0.75 | 0.4 | NA | ±20 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 55.6 | 0.966 | 1.074 | 11.2 | NA | ±20 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 51.5 | 0.4609 | 0.4744 | 2.9 | NA | ±20 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 50.5 | 0.311 | 0.3139 | 0.9 | NA | ±20 | Average RF |
| Trichloroethene (TCE) | 50.0 | 49.5 | 0.348 | 0.3448 | -0.9 | NA | ±20 | Average RF |
| Vinyl Chloride | 50.0 | 49.8 | 0.7238 | 0.7201 | -0.5 | NA | ±20 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 53.0 | 0.5493 | 0.582 | 6.0 | NA | ±20 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 54.1 | 0.4929 | 0.5336 | 8.3 | NA | ±20 | Average RF |

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|----------------------|----------|--------|------------|--------|------|---------|----------|------------|
| 4-Bromofluorobenzene | 50.0 | 50.6 | 0.525 | 0.5309 | 1.1 | NA | ±20 | Average RF |
| Dibromofluoromethane | 50.0 | 48.1 | 0.3369 | 0.324 | -3.9 | NA | ±20 | Average RF |
| Toluene-d8 | 50.0 | 48.6 | 1.3662 | 1.3265 | -2.9 | NA | ±20 | Average RF |

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:607883
Instrument ID:R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|-------------------------------------|--------------|---------------|---------------|---|
| I:\ACQUADATA\msvoa10\data\092418\D6059.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 09:03:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6060.D | Continuing Calibration Verification | RQ1810325-02 | 9/24/2018 | 09:41:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6061.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 10:13:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6062.D | Lab Control Sample | RQ1810325-08 | 9/24/2018 | 10:35:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6064.D | Method Blank | RQ1810325-04 | 9/24/2018 | 11:21:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6065.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 11:52:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6066.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 12:14:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6067.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 12:36:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6068.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 12:58:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6069.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 13:19:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6070.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 13:45:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6071.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 14:12:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6073.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 14:56:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6074.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 15:27:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6078.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 16:55:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6079.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 17:16:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6080.D | MW-17 | R1809120-005 | 9/24/2018 | 17:38:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6081.D | MW-16 | R1809120-006 | 9/24/2018 | 18:00:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6083.D | MW-8 | R1809120-009 | 9/24/2018 | 18:44:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6084.D | DUP-092018 | R1809120-012 | 9/24/2018 | 19:08:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6085.D | MW-11 | R1809120-010 | 9/24/2018 | 19:30:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6086.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 19:52:00 | |
| I:\ACQUADATA\msvoa10\data\092418\D6087.D | ZZZZZZZ | ZZZZZZZ | 9/24/2018 | 20:14:00 | |

ALS Group USA, Corp.
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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:607883
Instrument ID:R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|--------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUDATA\msvoa10\data\092418\D6088.D\ | MW-17 MS | RQ1810325-05 | 9/24/2018 | 20:36:00 | |
| I:\ACQUDATA\msvoa10\data\092418\D6089.D\ | MW-17 DMS | RQ1810325-06 | 9/24/2018 | 20:57:00 | |

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:608092
Instrument ID:R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|-------------------------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUADATA\msvoa10\data\092518\D6098.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 10:01:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6099.D\ | Continuing Calibration Verification | RQ1810327-02 | 9/25/2018 | 10:36:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6100.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 11:24:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6101.D\ | Lab Control Sample | RQ1810327-04 | 9/25/2018 | 11:48:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6103.D\ | Method Blank | RQ1810327-05 | 9/25/2018 | 12:32:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6104.D\ | MW-9 | R1809120-008 | 9/25/2018 | 12:53:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6105.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 13:17:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6107.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 14:01:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6108.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 14:23:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6109.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 14:45:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6110.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 15:06:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6111.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 15:28:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6112.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 15:50:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6113.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 16:12:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6114.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 16:34:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6115.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 16:55:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6116.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 17:17:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6117.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 17:39:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6119.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 18:23:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6120.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 18:44:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6121.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 19:06:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6122.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 19:28:00 | |
| I:\ACQUADATA\msvoa10\data\092518\D6123.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 19:50:00 | |

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QA/QC Report

Client: Verina Consulting Group, LLC
Project: Dover - Binghamton/5101.0003

Service Request:R1809120

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:608092
Instrument ID:R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|--|--------------------|-----------------|----------------------|----------------------|----------|
| I:\ACQUDATA\msvoa10\data\092518 \D6124.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 20:12:00 | |
| I:\ACQUDATA\msvoa10\data\092518 \D6125.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2018 | 20:33:00 | |

Analysis: 8260C Analyst: P. Lyman pH strips: Hyd. 204018 Tune Method: W082118.M
 Date: 09/24/18 Balance ID: _____ ResCl strips: _____ Run Method: ↓
 Instr: MS #10 50 mL Class A used for dilution FV Syringes: 18111Z LIMS Run#: 607883
 Data Path: j:\acq\data\msvoe\Inst(D)\(Date)

| Pos. | Sample | Diln. | Diln. Prep/ | RL | Tier | Vial | pH | File# | OK? | Comments |
|-------|-------------------|-------|--------------|-------|------|------|----|-------|------|---------------------------|
| 1 | B/K | | | | | | | D6057 | O.K. | |
| 2 | B/K | | | | | | | 58 | Y | |
| 3 | Tune Check | | | | | | | 59 | Y | |
| 4 | CSV | | (Run as B/K) | | | | | D6060 | Y | |
| 5 | LCS-Acid | | | | | | | 61 | Y | |
| 6 | LCS-Wmp. | | | | | | | 62 | Y | |
| 7 | B/K | | | | | | | 63 | N | x-over |
| 8 | Met B/K | | | | | | | 64 | Y | |
| 9 | R1808818-003 | 1.0 | T.B. | 14733 | II | 2 | <2 | 65 | Y | |
| 10 | ↓ | 1.0 | | 646 | IV | 1 | <2 | 66 | Y | |
| 11 | R1808968-032 | 1.0 | | 2979 | I | 2 | <2 | 67 | Y | |
| 12 | ↓ | 5.0 | 10mL/50mL | | | | | 68 | Y | Diluted for matrix effect |
| 13 | ↓ | 5.0 | 10mL/50mL | | | | | 69 | Y | |
| 14 | ↓ | 5.0 | 10mL/50mL | | | | | D6070 | Y | |
| 15 | ↓ | 2.5 | 2.0mL/50mL | | | | | 71 | Y | = DL |
| 16 | ↓ | 2.0 | 25mL/50mL | | | | | 72 | N | weak - could go 1/1 |
| 17 | ↓ | 1.0 | | | | | | 73 | N | not 1/2.5 |
| 18 | ↓ | 2.5 | 20mL/50mL | | | | | 74 | Y | = DL |
| 19-21 | B/Ks | | | | | | | D6075 | Y | |
| 22 | R1808968-027 | 1.0 | T.B. | 6646 | IV | 1 | <2 | 78 | Y | |
| 23 | ↓ | 1.0 | | 2979 | I | 2 | <2 | 79 | Y | |
| 24 | R1809120-005 | 1.0 | | | | | | D6080 | Y | |
| 25 | ↓ | 1.0 | | | | | | 81 | Y | wasn't expecting PCE |
| 26 | ↓ | 1.0 | | | | | | 82 | N | likely PCE x-over ppt 1.0 |
| 27 | ↓ | 1.0 | | | | | | 83 | Y | |
| 28 | ↓ | 1.0 | | | | | | 84 | Y | |
| 29 | ↓ | 1.0 | | | | | | 85 | Y | |
| 30 | R1808819-001 | 2.0 | 25mL/50mL | 14733 | II | 1 | <2 | 86 | Y | |
| 31 | ↓ | 1.0 | 5.0mL/50mL | | | | | 87 | Y | |
| 32 | R1809120-005MS | 1.0 | | 2979 | IV | 2 | <2 | 88 | Y | |
| 33 | ↓ | 1.0 | | | | | | 89 | Y | |
| 34 | High Guard + B/Ks | | | | | | | D6090 | Y | |

All samples = 5.0 ml + 5.0 ul combined IS/Surr.

Primary TG : 193033 5.0ul
 Primary HSL : 192928
 Primary OCC : 193366
 Primary Fm+ : 193220
 Primary

Secondary TG : 192785 2.0ul
 Secondary HSL : 193388
 Secondary OCC : 191355
 Secondary Fm+ : 192808 5.0ul
 Secondary
 50mL purged
 4.2mL
 10.6mL
 4.2mL vials swamp
 O-986 Page 21 = MS/MS
 LCS

Combined IS/Surr : 193101
 Surrogate E0 : 193099
 Internal Std E0 : 193099
 Reagents:

Analysis: 8260C/624.1 Analyst: R. Lipman pH strips: Hyd. 204018 Tune Method: W082118.M
 Date: 09/25/18 Run# 1 Balance ID: 1 ResCl strips: HF 10051ZF Run Method: MS/MS
 Instr: MS# 10 50 mL Class A used for dilution FV Syringes: 181117 LIMS Run#: 608092

Data Path: J:\acq\data\msvqa\InstID\Date

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Tier | Vial | pH | File# | OK? | Comments |
|------|----------------|-------|----------------------|-------|------|------|----|-------|------|-------------------------------|
| 1-2 | BLK | | | | | | | D6094 | 95 Y | |
| 3 | High GAA Std | | | | | | | D6096 | Y | |
| 4 | BLK | | | | | | | 97 | Y | |
| 5 | TUNE Check | | (Run as BLK) | | | | | 98 | Y | |
| 6 | CCV | | | | | | | 99 | Y | |
| 7 | LCS-Acid | | | | | | | D6100 | Y | |
| 8 | LCS-Msp. | | | | | | | 01 | Y | |
| 9 | BLK | | | | | | | 02 | N | x-over |
| 10 | Met BLK | | | | | | | 03 | Y | |
| 11 | R1809120-008 | 1.0 | | 7979 | IV | 2 | 7 | 04 | Y | |
| 12 | R1809111-002 | 1.0 | | 8974 | IV | 1 | <2 | 05 | Y | |
| 13 | ↓ -001 | 10 | 5.0ml/50ml | ↓ | ↓ | 1 | <2 | 06 | N | weak-not very foamy - rpt 1.0 |
| 14 | R1809062-001 | 1.0 | | 6656 | III | 1 | <2 | 07 | Y | |
| 15 | ↓ -002 | 1.0 | | ↓ | ↓ | 1 | <2 | 08 | Y | |
| 16 | R1809107-019 | 1.0 | T.B. | 6675 | IV | 1 | <2 | 09 | Y | |
| 17 | R1809111-001 | 1.0 | | 8974 | IV | 2 | <2 | D6110 | Y | |
| 18 | R1809107-003 | 1.0 | | 6675 | IV | 1 | <2 | 11 | Y | |
| 19 | ↓ -017 | 1.0 | | ↓ | ↓ | 1 | <2 | 12 | Y | |
| 20 | ~004 | 1.0 | | ↓ | ↓ | 1 | <2 | 13 | Y | |
| 21 | -005 | 1.0 | | ↓ | ↓ | 1 | <2 | 14 | Y | |
| 22 | -001 | 1.0 | | ↓ | ↓ | 1 | <2 | 15 | Y | |
| 23 | -006 | 1.0 | | ↓ | ↓ | 1 | <2 | 16 | Y | |
| 24 | ↓ -002 | 1.0 | | ↓ | ↓ | 1 | <2 | 17 | Y | |
| 25 | R1809121-001 | 1.0 | (G24.1) (Composited) | 17464 | II | C-1 | 7 | 18 | (N) | ? TOE "J" x-over's rpt 1.0 |
| 26 | ↓ -002 | 1.0 | " " | ↓ | ↓ | 1 | 7 | 19 | Y | |
| 27 | R1809107-007 | 1.0 | (8260C) | 6675 | II | 1 | =2 | D6120 | Y | |
| 28 | R1809104-006 | 1.0 | (G24.1) | 1188 | II | 1 | 7 | 21 | Y | |
| 29 | ↓ -003 | 2.5 | 20ml/50ml | ↓ | ↓ | C-1 | 7 | 22 | Y | |
| 30 | R1808968-028 | 1.0 | (8260C) | 6646 | IV | 1 | <2 | 23 | Y | |
| 31 | R1809062-001MS | 1.0 | | 6656 | III | 2 | <2 | 24 | Y | |
| 32 | ↓ -001DMS | 1.0 | | ↓ | ↓ | 2 | <2 | 25 | Y | |
| 32.5 | High GAA + BLK | | | | | | | 26-27 | | |

All samples = 5.0 ml + 5.0 ul combined IS/Surr. 5.0 ml purged

Primary TG: 193033
 Primary HSL: 193469
 Primary OCC: 193366
 Primary Frt: 193220

Secondary TG: 192785
 Secondary HSL: 193388
 Secondary OCC: 191355
 Secondary Frt: 192808

Combined IS/Surr: 193101
 Surrogate 50: 193099
 Internal Std 50: 193099

50ml purged
 10.6gud
 42ml vial sample
 = MS/DMS

Analysis: 8260C/624.1 Analyst: P. Ingram pH strips: HPL 204018 Tune Method: W082118.M
 Date: 09/25/18 Run# 1 Balance ID: 50 mL Class A used for dilution FV ResCl strips: HF 100517E Run Method: MS/MS
 Instr: MS# 10 Syringes: 181117 LIMS Run#: 608092

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Tier | Vial | pH | File# | OK? | Comments |
|------|------------------|-------|---------------------|-------|------|------|----|----------|-----|------------------------------|
| 1-2 | Blks | | | | | | | D6094-95 | Y | |
| 3 | High Gas A Std | | | | | | | D6096 | Y | |
| 4 | Blk | | | | | | | 97 | Y | |
| 5 | TUNE Check | | (Run as a Blk) | | | | | 98 | Y | |
| 6 | CCV | | | | | | | 99 | Y | |
| 7 | LCS-Acid | | | | | | | D6100 | Y | |
| 8 | LCS-Wmp. | | | | | | | 01 | Y | |
| 9 | Blk | | | | | | | 02 | N | x-over |
| 10 | Met Blk | | | | | | | 03 | Y | |
| 11 | R1809120-008 | 1.0 | | 7979 | IV | 2 | 7 | 64 | Y | |
| 12 | R1809111-002 | 1.0 | | 8974 | IV | 1 | <2 | 05 | Y | |
| 13 | ↓ -001 | 10 | 5.0ml/50ml | ↓ | I | 1 | <2 | 06 | N | weak-not very foamy- rpt 1.0 |
| 14 | R1809062-001 | 1.0 | | 6656 | III | 1 | <2 | 07 | Y | |
| 15 | ↓ -002 | 1.0 | | ↓ | I | 1 | <2 | 08 | Y | |
| 16 | R1809107-019 | 1.0 | T.B. | 6675 | IV | 1 | <2 | 09 | Y | |
| 17 | R1809111-001 | 1.0 | | 8974 | IV | 2 | <2 | D6110 | Y | |
| 18 | R1809107-003 | 1.0 | | 6675 | IV | 1 | <2 | 11 | Y | |
| 19 | ↓ -017 | 1.0 | | | I | 1 | <2 | 12 | Y | |
| 20 | ~004 | 1.0 | | | I | 1 | <2 | 13 | Y | |
| 21 | -005 | 1.0 | | | I | 1 | <2 | 14 | Y | |
| 22 | -001 | 1.0 | | | I | 1 | <2 | 15 | Y | |
| 23 | -006 | 1.0 | | | I | 1 | <2 | 16 | Y | |
| 24 | ↓ -002 | 1.0 | | | I | 1 | <2 | 17 | Y | |
| 25 | R1809121-001 | 1.0 | (G24.1) (Composite) | 17464 | II | C-1 | 7 | 18 | (N) | ? TCE "J" x-over rpt 1.0 |
| 26 | ↓ -002 | 1.0 | " | ↓ | I | 1 | 7 | 19 | Y | |
| 27 | R1809107-007 | 1.0 | (8260C) | 6675 | II | 1 | =2 | D6120 | Y | |
| 28 | R1809104-006 | 1.0 | (G24.1) | 11868 | II | 1 | 7 | 21 | Y | |
| 29 | ↓ -003 | 2.5 | 20ml/50ml | ↓ | I | 1 | 7 | 22 | Y | |
| 30 | R1809068-028 | 1.0 | (8260C) | 6646 | IV | 1 | <2 | 23 | Y | |
| 31 | R1809062-001MS | 1.0 | | 6656 | III | 2 | <2 | 24 | Y | |
| 32 | ↓ -001DMS | 1.0 | | ↓ | I | 2 | <2 | 25 | Y | |
| 33 | High Gas A + Blk | | | | | | | 26 | Y | |

All samples = 5.0 ml + 5.0 ml combined IS/Surr. 5.0 ml purged

Primary TG : 193033 ~~5.0~~ 5.0ml
 Primary HSL : 193469 ~~5.0~~ 5.0ml
 Primary OCC : 193366
 Primary Fr + : 193220
 Primary :
 Secondary TG : 192785 2.9ml
 Secondary HSL : 193388
 Secondary OCC : 191355
 Secondary Fr + : 192808 5.0ml
 Secondary :
 Combined IS/Surr :
 Surrogate 50 : 193101
 Internal Std 50 : 193099
 Reagents:
 50ml H2ml vial sample
 = MS/DMS
 Runlog-MSV0A4 1/17/17

Appendix C



ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) INSPECTION LOG
Former Dover Electronics Site, Binghamton, NY (5101.0003)

| Date | Time | System On? (Y/N) | E-1 | E-2 | E-3 | E-4 | Comments |
|------------|-------|------------------|--------|--------|--------|--------|--|
| | | | Vacuum | Vacuum | Vacuum | Vacuum | |
| 1/10/2017 | 10:00 | Y | 3.50 | 3.00 | 0.13 | 2.75 | |
| 2/23/2017 | 8:00 | Y | 3.12 | 3.00 | 0.13 | 2.88 | |
| 3/22/2017 | 9:40 | Y | 3.25 | 3.00 | 0.13 | 2.75 | |
| 4/13/2017 | 8:00 | Y | 3.50 | 3.13 | 0.13 | 3.13 | |
| 5/11/2017 | 8:00 | Y | 3.25 | 3.13 | 0.13 | 2.88 | |
| 6/21/2017 | 8:20 | Y | 3.25 | 3.13 | 0.25 | 3.13 | |
| 7/13/2017 | 7:50 | Y | 3.33 | 3.13 | 0.25 | 3.00 | |
| 8/25/2017 | 8:00 | Y | 3.50 | 3.25 | 0.25 | 3.00 | |
| 9/15/2017 | 8:00 | Y | 3.33 | 3.25 | 0.25 | 2.88 | |
| 11/17/2017 | 8:00 | Y | 3.50 | 3.13 | 0.13 | 3.13 | |
| 12/13/2017 | 9:00 | N | -- | -- | -- | -- | System off, Fan may have been damaged during power outage week prior |
| 1/17/2018 | 9:00 | Y | 4.50 | 4.00 | 0.13 | 3.75 | ASD system back on after fan replacement |
| 2/22/2018 | 8:35 | Y | 4.50 | 4.00 | 0.13 | 3.75 | |
| 3/21/2018 | 16:20 | Y | 4.50 | 3.75 | 0.25 | 3.75 | IA sampling prior to inspection, ASD system on |
| 4/11/2018 | 7:45 | Y | 4.00 | 3.75 | 0.13 | 3.75 | |
| 5/23/2018 | 10:00 | Y | 3.88 | 3.75 | 0.25 | 3.50 | |
| 6/20/2018 | 8:20 | Y | 4.00 | 3.13 | 0.50 | 3.63 | |
| 7/11/2018 | 8:20 | Y | 4.25 | 3.57 | 0.38 | 3.50 | |
| 8/15/2018 | 8:40 | Y | 4.13 | 4.00 | 0.25 | 3.75 | |
| 9/21/2018 | 10:15 | Y | 4.13 | 3.88 | 0.25 | 3.75 | |
| 10/10/2018 | 12:45 | Y | 4.13 | 3.75 | 1.13 | 3.50 | |
| 11/15/2018 | 9:35 | Y | 2.50 | 2.25 | 1.00 | 1.75 | |
| 12/20/2018 | 9:30 | Y | 2.39 | 2.00 | 0.88 | 1.39 | |

Appendix D



INDOOR/AMBIENT AIR SAMPLING LOG
Former Binghamton Plastics Site, Binghamton, NY
 VERINA Job No. 5101.0003

Date: 3/21/2018

Personnel: BSN, MWG

Weather: 20's, Cold, Cloudy

Canister Type: 6.0L Stainless Summa

| Sample ID | Start Time | Start Canister Pressure | End Time | End Canister Pressure | Temperature (F) | Air Speed (mph) | Indoor/Outdoor | Canister ID | Canister Size (L) | Flow Control ID | Sample Height (ft) |
|-----------|------------|-------------------------|----------|-----------------------|-----------------|-----------------|----------------|-------------|-------------------|-----------------|--------------------|
| IA-8 | 8:04 | 27 | 15:58 | 4 | 69 | NA | Indoor | AC02061 | 6L | FCS00068 | 6 |
| IA-9 | 8:08 | 28 | 16:00 | 6 | 69 | NA | Indoor | AC01887 | 6L | FCS00006 | 5 |
| IA-2 | 8:10 | 30 | 16:01 | 5 | 69 | NA | Indoor | AS00925 | 6L | FCS00111 | 4 |
| IA-5 | 8:16 | 26 | 16:03 | 22 | 69 | NA | Indoor | AC02261 | 6L | FCA00313 | 4 |
| IA-3 | 8:19 | 26 | 16:05 | 1 | 69 | NA | Indoor | AC00716 | 6L | FCA01014 | 4 |
| AA-1 | 8:30 | 27 | 16:15 | 5 | 26 | ~10 | Outdoor | AC00982 | 6L | FCA00093 | 3 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Comments:

Appendix E



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
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www.alsglobal.com

LABORATORY REPORT

April 10, 2018

Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

RE: Dover-Binghamton / 5101.0003

Dear Sarah:

Enclosed are the results of the samples submitted to our laboratory on March 27, 2018. For your reference, these analyses have been assigned our service request number P1801538.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Kaneko at 11:08 am, 04/10/18

Kate Kaneko
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover-Binghamton / 5101.0003

Service Request No: P1801538
NJ Certification ID: CA009

CASE NARRATIVE

The samples were received intact under chain of custody on March 27, 2018 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The lower control criterion was exceeded for chloromethane in the Continuing Calibration Verification (CCV) analyzed on April 2, 2018. However, the reported sample results associated with this CCV were for the dilutions of acetone and 1,2,4-trimethylbenzene only, therefore, the results were not affected. No corrective action was necessary.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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 Simi Valley, CA 93065
 T: +1 805 526 7161
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|------------------------|---|----------------------------|
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm | 2016036 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1347317 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/oqa/ | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-005 |
| Pennsylvania DEP | http://www.depweb.state.pa.us/labs | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html | T104704413-17-8 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/environmental-lab-certification/ | CA01627201 7-8 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Verina Consulting Group, LLC
 Project ID: Dover-Binghamton / 5101.0003

Service Request: P1801538

Date Received: 3/27/2018
 Time Received: 09:30

TO-15 - VOC Cans

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|---|
| IA-8 | P1801538-001 | Air | 3/21/2018 | 15:58 | AC02061 | -2.54 | 3.76 | X |
| IA-9 | P1801538-002 | Air | 3/21/2018 | 16:00 | AC01887 | -2.31 | 3.67 | X |
| IA-2 | P1801538-003 | Air | 3/21/2018 | 16:01 | AS00925 | -2.62 | 3.74 | X |
| IA-5 | P1801538-004 | Air | 3/21/2018 | 16:03 | AC02261 | -4.98 | 3.77 | X |
| IA-3 | P1801538-005 | Air | 3/21/2018 | 16:05 | AC00716 | -0.06 | 3.70 | X |
| AA-1 | P1801538-006 | Air | 3/21/2018 | 16:15 | AC00982 | -2.17 | 3.79 | X |

**ALS Environmental
Sample Acceptance Check Form**

Client: Verina Consulting Group, LLC Work order: P1801538
 Project: Dover-Binghamton / 5101.0003
 Sample(s) received on: 3/27/18 Date opened: 3/27/18 by: E.PEREZ

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|-----------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| P1801538-001.01 | 6.0 L Ambient Can | | | | | |
| P1801538-002.01 | 6.0 L Ambient Can | | | | | |
| P1801538-003.01 | 6.0 L Silonite Can | | | | | |
| P1801538-004.01 | 6.0 L Ambient Can | | | | | |
| P1801538-005.01 | 6.0 L Ambient Can | | | | | |
| P1801538-006.01 | 6.0 L Ambient Can | | | | | |
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Explain any discrepancies: (include lab sample ID numbers): _____
 All Samples are Missing Tags _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-8
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02061

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 3.76

Container Dilution Factor: 1.52

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.4 | 0.76 | 0.49 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.76 | ND | 0.37 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.76 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.76 | ND | 0.30 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.76 | ND | 0.34 | |
| 74-83-9 | Bromomethane | ND | 0.76 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.76 | ND | 0.29 | |
| 64-17-5 | Ethanol | 230 | 7.6 | 120 | 4.0 | |
| 75-05-8 | Acetonitrile | ND | 0.76 | ND | 0.45 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | 920 | 76 | 390 | 32 | D |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 2.0 | 0.76 | 0.35 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 11 | 7.6 | 4.4 | 3.1 | |
| 107-13-1 | Acrylonitrile | ND | 0.76 | ND | 0.35 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 99 | 0.76 | 29 | 0.22 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.76 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.76 | ND | 0.099 | |
| 75-15-0 | Carbon Disulfide | ND | 7.6 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.76 | ND | 0.19 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.76 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.6 | ND | 2.2 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-8
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02061

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 3.76

Container Dilution Factor: 1.52

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 7.6 | ND | 2.6 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.76 | ND | 0.19 | |
| 110-54-3 | n-Hexane | 8.4 | 0.76 | 2.4 | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.76 | ND | 0.16 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.76 | ND | 0.19 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.76 | ND | 0.14 | |
| 71-43-2 | Benzene | 1.0 | 0.76 | 0.32 | 0.24 | |
| 56-23-5 | Carbon Tetrachloride | 0.41 | 0.15 | 0.066 | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.76 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.76 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 4.5 | 0.15 | 0.83 | 0.028 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.76 | ND | 0.21 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.76 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.76 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.76 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.76 | ND | 0.14 | |
| 108-88-3 | Toluene | 9.7 | 0.76 | 2.6 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.76 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.76 | ND | 0.089 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.76 | ND | 0.099 | |
| 123-86-4 | n-Butyl Acetate | 11 | 0.76 | 2.4 | 0.16 | |
| 127-18-4 | Tetrachloroethene | 17 | 0.76 | 2.5 | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-8
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02061

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 3.76

Container Dilution Factor: 1.52

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.76 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 1.8 | 0.76 | 0.42 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 7.5 | 1.5 | 1.7 | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.76 | ND | 0.074 | |
| 100-42-5 | Styrene | ND | 0.76 | ND | 0.18 | |
| 95-47-6 | o-Xylene | 11 | 0.76 | 2.5 | 0.18 | |
| 111-84-2 | n-Nonane | 66 | 0.76 | 13 | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.76 | ND | 0.11 | |
| 98-82-8 | Cumene | 20 | 0.76 | 4.2 | 0.15 | |
| 80-56-8 | alpha-Pinene | 10 | 0.76 | 1.8 | 0.14 | |
| 622-96-8 | 4-Ethyltoluene | 130 | 0.76 | 26 | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120 | 0.76 | 25 | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 230 | 7.6 | 48 | 1.5 | D |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.29 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.76 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 59 | 0.76 | 11 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.76 | ND | 0.079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.76 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.76 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.76 | ND | 0.071 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-9
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01887

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.31 Final Pressure (psig): 3.67

Container Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.74 | 0.44 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.74 | ND | 0.36 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.74 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.74 | ND | 0.29 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.74 | ND | 0.33 | |
| 74-83-9 | Bromomethane | ND | 0.74 | ND | 0.19 | |
| 75-00-3 | Chloroethane | ND | 0.74 | ND | 0.28 | |
| 64-17-5 | Ethanol | 200 | 7.4 | 110 | 3.9 | |
| 75-05-8 | Acetonitrile | ND | 0.74 | ND | 0.44 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | 1,000 | 74 | 420 | 31 | D |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 1.9 | 0.74 | 0.35 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 11 | 7.4 | 4.5 | 3.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.74 | ND | 0.34 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 100 | 0.74 | 29 | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 0.78 | 0.74 | 0.10 | 0.097 | |
| 75-15-0 | Carbon Disulfide | ND | 7.4 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.4 | ND | 2.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-9
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01887

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.31 Final Pressure (psig): 3.67

Container Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 7.4 | ND | 2.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 110-54-3 | n-Hexane | 11 | 0.74 | 3.1 | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.74 | ND | 0.15 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.77 | 0.74 | 0.14 | 0.14 | |
| 71-43-2 | Benzene | 1.1 | 0.74 | 0.33 | 0.23 | |
| 56-23-5 | Carbon Tetrachloride | 0.43 | 0.15 | 0.068 | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.74 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.74 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 3.8 | 0.15 | 0.70 | 0.028 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.74 | ND | 0.21 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.74 | ND | 0.18 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.74 | ND | 0.14 | |
| 108-88-3 | Toluene | 18 | 0.74 | 4.7 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.74 | ND | 0.18 | |
| 124-48-1 | Dibromochloromethane | ND | 0.74 | ND | 0.087 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.74 | ND | 0.096 | |
| 123-86-4 | n-Butyl Acetate | 12 | 0.74 | 2.6 | 0.16 | |
| 127-18-4 | Tetrachloroethene | 13 | 0.74 | 2.0 | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-9
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01887

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.31 Final Pressure (psig): 3.67

Container Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.74 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | 3.0 | 0.74 | 0.69 | 0.17 | |
| 179601-23-1 | m,p-Xylenes | 11 | 1.5 | 2.5 | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.74 | ND | 0.072 | |
| 100-42-5 | Styrene | 2.6 | 0.74 | 0.61 | 0.17 | |
| 95-47-6 | o-Xylene | 12 | 0.74 | 2.9 | 0.17 | |
| 111-84-2 | n-Nonane | 64 | 0.74 | 12 | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.74 | ND | 0.11 | |
| 98-82-8 | Cumene | 21 | 0.74 | 4.4 | 0.15 | |
| 80-56-8 | alpha-Pinene | 8.9 | 0.74 | 1.6 | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | 130 | 0.74 | 27 | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 130 | 0.74 | 26 | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 240 | 7.4 | 50 | 1.5 | D |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.29 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | 66 | 0.74 | 12 | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.74 | ND | 0.077 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.74 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.74 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.74 | ND | 0.069 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-2
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00925

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 3.74

Container Dilution Factor: 1.53

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.77 | 0.42 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.77 | ND | 0.37 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.77 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.77 | ND | 0.30 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.77 | ND | 0.35 | |
| 74-83-9 | Bromomethane | ND | 0.77 | ND | 0.20 | |
| 75-00-3 | Chloroethane | ND | 0.77 | ND | 0.29 | |
| 64-17-5 | Ethanol | 190 | 7.7 | 100 | 4.1 | |
| 75-05-8 | Acetonitrile | ND | 0.77 | ND | 0.46 | |
| 107-02-8 | Acrolein | ND | 3.1 | ND | 1.3 | |
| 67-64-1 | Acetone | 1,100 | 77 | 480 | 32 | D |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 2.2 | 0.77 | 0.39 | 0.14 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 9.3 | 7.7 | 3.8 | 3.1 | |
| 107-13-1 | Acrylonitrile | ND | 0.77 | ND | 0.35 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.77 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | 120 | 0.77 | 33 | 0.22 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.77 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 0.82 | 0.77 | 0.11 | 0.10 | |
| 75-15-0 | Carbon Disulfide | ND | 7.7 | ND | 2.5 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.77 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.77 | ND | 0.19 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.77 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.7 | ND | 2.2 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-2
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00925

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 3.74

Container Dilution Factor: 1.53

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 7.7 | ND | 2.6 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.77 | ND | 0.19 | |
| 110-54-3 | n-Hexane | 9.7 | 0.77 | 2.8 | 0.22 | |
| 67-66-3 | Chloroform | ND | 0.77 | ND | 0.16 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.77 | ND | 0.19 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.84 | 0.77 | 0.15 | 0.14 | |
| 71-43-2 | Benzene | 0.89 | 0.77 | 0.28 | 0.24 | |
| 56-23-5 | Carbon Tetrachloride | 0.45 | 0.15 | 0.072 | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.77 | ND | 0.17 | |
| 75-27-4 | Bromodichloromethane | ND | 0.77 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 3.8 | 0.15 | 0.71 | 0.028 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.77 | ND | 0.21 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.77 | ND | 0.17 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.77 | ND | 0.19 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.77 | ND | 0.17 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.77 | ND | 0.14 | |
| 108-88-3 | Toluene | 11 | 0.77 | 3.0 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.77 | ND | 0.19 | |
| 124-48-1 | Dibromochloromethane | ND | 0.77 | ND | 0.090 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.77 | ND | 0.10 | |
| 123-86-4 | n-Butyl Acetate | 12 | 0.77 | 2.5 | 0.16 | |
| 127-18-4 | Tetrachloroethene | 17 | 0.77 | 2.4 | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-2
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00925

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 3.74

Container Dilution Factor: 1.53

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.77 | ND | 0.17 | |
| 100-41-4 | Ethylbenzene | 2.2 | 0.77 | 0.51 | 0.18 | |
| 179601-23-1 | m,p-Xylenes | 8.9 | 1.5 | 2.1 | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.77 | ND | 0.074 | |
| 100-42-5 | Styrene | ND | 0.77 | ND | 0.18 | |
| 95-47-6 | o-Xylene | 13 | 0.77 | 3.1 | 0.18 | |
| 111-84-2 | n-Nonane | 77 | 0.77 | 15 | 0.15 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.77 | ND | 0.11 | |
| 98-82-8 | Cumene | 26 | 0.77 | 5.4 | 0.16 | |
| 80-56-8 | alpha-Pinene | 8.4 | 0.77 | 1.5 | 0.14 | |
| 622-96-8 | 4-Ethyltoluene | 150 | 0.77 | 31 | 0.16 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 160 | 0.77 | 32 | 0.16 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 310 | 7.7 | 62 | 1.6 | D |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.30 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.77 | ND | 0.13 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.77 | ND | 0.13 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.77 | ND | 0.13 | |
| 5989-27-5 | d-Limonene | 76 | 0.77 | 14 | 0.14 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.77 | ND | 0.079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.77 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.77 | ND | 0.15 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.77 | ND | 0.072 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-5
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02261

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -4.98 Final Pressure (psig): 3.77

Container Dilution Factor: 1.90

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.95 | 0.43 | 0.19 | |
| 74-87-3 | Chloromethane | ND | 0.95 | ND | 0.46 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.95 | ND | 0.14 | |
| 75-01-4 | Vinyl Chloride | ND | 0.95 | ND | 0.37 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.95 | ND | 0.43 | |
| 74-83-9 | Bromomethane | ND | 0.95 | ND | 0.24 | |
| 75-00-3 | Chloroethane | ND | 0.95 | ND | 0.36 | |
| 64-17-5 | Ethanol | 180 | 9.5 | 94 | 5.0 | |
| 75-05-8 | Acetonitrile | ND | 0.95 | ND | 0.57 | |
| 107-02-8 | Acrolein | ND | 3.8 | ND | 1.7 | |
| 67-64-1 | Acetone | 910 | 9.5 | 380 | 4.0 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 2.0 | 0.95 | 0.35 | 0.17 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 9.5 | ND | 3.9 | |
| 107-13-1 | Acrylonitrile | ND | 0.95 | ND | 0.44 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.95 | ND | 0.24 | |
| 75-09-2 | Methylene Chloride | 100 | 0.95 | 30 | 0.27 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.95 | ND | 0.30 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.95 | ND | 0.12 | |
| 75-15-0 | Carbon Disulfide | ND | 9.5 | ND | 3.1 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.95 | ND | 0.24 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.95 | ND | 0.23 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.95 | ND | 0.26 | |
| 108-05-4 | Vinyl Acetate | ND | 9.5 | ND | 2.7 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-5
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02261

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -4.98 Final Pressure (psig): 3.77

Container Dilution Factor: 1.90

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 9.5 | ND | 3.2 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.95 | ND | 0.24 | |
| 110-54-3 | n-Hexane | 9.2 | 0.95 | 2.6 | 0.27 | |
| 67-66-3 | Chloroform | ND | 0.95 | ND | 0.19 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.95 | ND | 0.23 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.95 | ND | 0.17 | |
| 71-43-2 | Benzene | 1.1 | 0.95 | 0.35 | 0.30 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.19 | ND | 0.030 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.95 | ND | 0.21 | |
| 75-27-4 | Bromodichloromethane | ND | 0.95 | ND | 0.14 | |
| 79-01-6 | Trichloroethene | 3.8 | 0.19 | 0.70 | 0.035 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.95 | ND | 0.26 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.95 | ND | 0.21 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.95 | ND | 0.23 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.95 | ND | 0.21 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.95 | ND | 0.17 | |
| 108-88-3 | Toluene | 14 | 0.95 | 3.8 | 0.25 | |
| 591-78-6 | 2-Hexanone | ND | 0.95 | ND | 0.23 | |
| 124-48-1 | Dibromochloromethane | ND | 0.95 | ND | 0.11 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.95 | ND | 0.12 | |
| 123-86-4 | n-Butyl Acetate | 9.9 | 0.95 | 2.1 | 0.20 | |
| 127-18-4 | Tetrachloroethene | 15 | 0.95 | 2.2 | 0.14 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-5
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC02261

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -4.98 Final Pressure (psig): 3.77

Container Dilution Factor: 1.90

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.95 | ND | 0.21 | |
| 100-41-4 | Ethylbenzene | 2.4 | 0.95 | 0.56 | 0.22 | |
| 179601-23-1 | m,p-Xylenes | 8.9 | 1.9 | 2.1 | 0.44 | |
| 75-25-2 | Bromoform | ND | 0.95 | ND | 0.092 | |
| 100-42-5 | Styrene | ND | 0.95 | ND | 0.22 | |
| 95-47-6 | o-Xylene | 12 | 0.95 | 2.8 | 0.22 | |
| 111-84-2 | n-Nonane | 68 | 0.95 | 13 | 0.18 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.95 | ND | 0.14 | |
| 98-82-8 | Cumene | 23 | 0.95 | 4.7 | 0.19 | |
| 80-56-8 | alpha-Pinene | 8.9 | 0.95 | 1.6 | 0.17 | |
| 622-96-8 | 4-Ethyltoluene | 140 | 0.95 | 28 | 0.19 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 130 | 0.95 | 27 | 0.19 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 260 | 9.5 | 53 | 1.9 | D |
| 100-44-7 | Benzyl Chloride | ND | 1.9 | ND | 0.37 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.95 | ND | 0.16 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.95 | ND | 0.16 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.95 | ND | 0.16 | |
| 5989-27-5 | d-Limonene | 68 | 0.95 | 12 | 0.17 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.95 | ND | 0.098 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.95 | ND | 0.13 | |
| 91-20-3 | Naphthalene | ND | 0.95 | ND | 0.18 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.95 | ND | 0.089 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: IA-3
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00716

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.06 Final Pressure (psig): 3.70

Container Dilution Factor: 1.26

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|-------------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.63 | 0.45 | 0.13 | |
| 74-87-3 | Chloromethane | ND | 0.63 | ND | 0.31 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.63 | ND | 0.090 | |
| 75-01-4 | Vinyl Chloride | ND | 0.63 | ND | 0.25 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.63 | ND | 0.28 | |
| 74-83-9 | Bromomethane | ND | 0.63 | ND | 0.16 | |
| 75-00-3 | Chloroethane | ND | 0.63 | ND | 0.24 | |
| 64-17-5 | Ethanol | 200 | 6.3 | 100 | 3.3 | |
| 75-05-8 | Acetonitrile | ND | 0.63 | ND | 0.38 | |
| 107-02-8 | Acrolein | ND | 2.5 | ND | 1.1 | |
| 67-64-1 | Acetone | 370 | 6.3 | 160 | 2.7 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 2.0 | 0.63 | 0.36 | 0.11 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 10 | 6.3 | 4.2 | 2.6 | |
| 107-13-1 | Acrylonitrile | ND | 0.63 | ND | 0.29 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.63 | ND | 0.16 | |
| 75-09-2 | Methylene Chloride | 100 | 0.63 | 29 | 0.18 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.63 | ND | 0.20 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 1.0 | 0.63 | 0.13 | 0.082 | |
| 75-15-0 | Carbon Disulfide | ND | 6.3 | ND | 2.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.63 | ND | 0.16 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.63 | ND | 0.16 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.63 | ND | 0.17 | |
| 108-05-4 | Vinyl Acetate | ND | 6.3 | ND | 1.8 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-3
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00716

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.06 Final Pressure (psig): 3.70

Container Dilution Factor: 1.26

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 6.3 | ND | 2.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.63 | ND | 0.16 | |
| 110-54-3 | n-Hexane | 4.0 | 0.63 | 1.1 | 0.18 | |
| 67-66-3 | Chloroform | ND | 0.63 | ND | 0.13 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.63 | ND | 0.16 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1.3 | 0.63 | 0.24 | 0.12 | |
| 71-43-2 | Benzene | 0.81 | 0.63 | 0.25 | 0.20 | |
| 56-23-5 | Carbon Tetrachloride | 0.40 | 0.13 | 0.063 | 0.020 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.63 | ND | 0.14 | |
| 75-27-4 | Bromodichloromethane | ND | 0.63 | ND | 0.094 | |
| 79-01-6 | Trichloroethene | 4.5 | 0.13 | 0.85 | 0.023 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.63 | ND | 0.17 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.63 | ND | 0.14 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.63 | ND | 0.15 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.63 | ND | 0.14 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.63 | ND | 0.12 | |
| 108-88-3 | Toluene | 14 | 0.63 | 3.8 | 0.17 | |
| 591-78-6 | 2-Hexanone | ND | 0.63 | ND | 0.15 | |
| 124-48-1 | Dibromochloromethane | ND | 0.63 | ND | 0.074 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.63 | ND | 0.082 | |
| 123-86-4 | n-Butyl Acetate | 18 | 0.63 | 3.8 | 0.13 | |
| 127-18-4 | Tetrachloroethene | 12 | 0.63 | 1.8 | 0.093 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: IA-3
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00716

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18 & 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.06 Final Pressure (psig): 3.70

Container Dilution Factor: 1.26

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.63 | ND | 0.14 | |
| 100-41-4 | Ethylbenzene | 2.9 | 0.63 | 0.66 | 0.15 | |
| 179601-23-1 | m,p-Xylenes | 11 | 1.3 | 2.5 | 0.29 | |
| 75-25-2 | Bromoform | ND | 0.63 | ND | 0.061 | |
| 100-42-5 | Styrene | ND | 0.63 | ND | 0.15 | |
| 95-47-6 | o-Xylene | 11 | 0.63 | 2.6 | 0.15 | |
| 111-84-2 | n-Nonane | 57 | 0.63 | 11 | 0.12 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.63 | ND | 0.092 | |
| 98-82-8 | Cumene | 21 | 0.63 | 4.2 | 0.13 | |
| 80-56-8 | alpha-Pinene | 4.5 | 0.63 | 0.80 | 0.11 | |
| 622-96-8 | 4-Ethyltoluene | 120 | 0.63 | 24 | 0.13 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 120 | 0.63 | 25 | 0.13 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 240 | 6.3 | 49 | 1.3 | D |
| 100-44-7 | Benzyl Chloride | ND | 1.3 | ND | 0.24 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.63 | ND | 0.10 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.63 | ND | 0.10 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.63 | ND | 0.10 | |
| 5989-27-5 | d-Limonene | 61 | 0.63 | 11 | 0.11 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.63 | ND | 0.065 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.63 | ND | 0.085 | |
| 91-20-3 | Naphthalene | ND | 0.63 | ND | 0.12 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.63 | ND | 0.059 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: AA-1
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00982

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.17 Final Pressure (psig): 3.79

Container Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.6 | 0.74 | 0.33 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.74 | ND | 0.36 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.74 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.74 | ND | 0.29 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.74 | ND | 0.33 | |
| 74-83-9 | Bromomethane | ND | 0.74 | ND | 0.19 | |
| 75-00-3 | Chloroethane | ND | 0.74 | ND | 0.28 | |
| 64-17-5 | Ethanol | ND | 7.4 | ND | 3.9 | |
| 75-05-8 | Acetonitrile | ND | 0.74 | ND | 0.44 | |
| 107-02-8 | Acrolein | ND | 3.0 | ND | 1.3 | |
| 67-64-1 | Acetone | ND | 7.4 | ND | 3.1 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 0.95 | 0.74 | 0.17 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 7.4 | ND | 3.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.74 | ND | 0.34 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | ND | 0.74 | ND | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.74 | ND | 0.097 | |
| 75-15-0 | Carbon Disulfide | ND | 7.4 | ND | 2.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.4 | ND | 2.1 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: AA-1
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00982

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.17 Final Pressure (psig): 3.79

Container Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 7.4 | ND | 2.5 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 110-54-3 | n-Hexane | ND | 0.74 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.74 | ND | 0.15 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.74 | ND | 0.14 | |
| 71-43-2 | Benzene | ND | 0.74 | ND | 0.23 | |
| 56-23-5 | Carbon Tetrachloride | 0.34 | 0.15 | 0.055 | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.74 | ND | 0.16 | |
| 75-27-4 | Bromodichloromethane | ND | 0.74 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.028 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.74 | ND | 0.21 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.74 | ND | 0.18 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.74 | ND | 0.14 | |
| 108-88-3 | Toluene | 1.7 | 0.74 | 0.45 | 0.20 | |
| 591-78-6 | 2-Hexanone | ND | 0.74 | ND | 0.18 | |
| 124-48-1 | Dibromochloromethane | ND | 0.74 | ND | 0.087 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.74 | ND | 0.096 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.74 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | ND | 0.74 | ND | 0.11 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Verina Consulting Group, LLC
Client Sample ID: AA-1
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P1801538-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00982

Date Collected: 3/21/18
 Date Received: 3/27/18
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.17 Final Pressure (psig): 3.79

Container Dilution Factor: 1.48

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.74 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.74 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.74 | ND | 0.072 | |
| 100-42-5 | Styrene | ND | 0.74 | ND | 0.17 | |
| 95-47-6 | o-Xylene | ND | 0.74 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.74 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.74 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.74 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | ND | 0.74 | ND | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.74 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.74 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.74 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.29 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.74 | ND | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.74 | ND | 0.077 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.74 | ND | 0.10 | |
| 91-20-3 | Naphthalene | ND | 0.74 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.74 | ND | 0.069 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Method Blank
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180330-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Method Blank
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180330-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | ND | 0.016 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | ND | 0.019 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Method Blank
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180330-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | ND | 0.19 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Method Blank
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180402-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | ND | 0.10 | |
| 74-87-3 | Chloromethane | ND | 0.50 | ND | 0.24 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | ND | 0.072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.50 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.50 | ND | 0.23 | |
| 74-83-9 | Bromomethane | ND | 0.50 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.50 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 0.50 | ND | 0.30 | |
| 107-02-8 | Acrolein | ND | 2.0 | ND | 0.87 | |
| 67-64-1 | Acetone | ND | 5.0 | ND | 2.1 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | ND | 0.50 | ND | 0.089 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 5.0 | ND | 2.0 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | ND | 0.23 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | ND | 0.14 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.50 | ND | 0.16 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.50 | ND | 0.065 | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | ND | 1.6 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.50 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Method Blank
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180402-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | ND | 1.7 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.50 | ND | 0.13 | |
| 110-54-3 | n-Hexane | ND | 0.50 | ND | 0.14 | |
| 67-66-3 | Chloroform | ND | 0.50 | ND | 0.10 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | ND | 0.12 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | ND | 0.016 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | ND | 0.075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | ND | 0.019 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | ND | 0.14 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | ND | 0.12 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | ND | 0.092 | |
| 108-88-3 | Toluene | ND | 0.50 | ND | 0.13 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | ND | 0.12 | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | ND | 0.059 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | ND | 0.065 | |
| 123-86-4 | n-Butyl Acetate | ND | 0.50 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | ND | 0.074 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Method Blank
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180402-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/2/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 108-90-7 | Chlorobenzene | ND | 0.50 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.50 | ND | 0.048 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.50 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.50 | ND | 0.095 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 0.073 | |
| 98-82-8 | Cumene | ND | 0.50 | ND | 0.10 | |
| 80-56-8 | alpha-Pinene | ND | 0.50 | ND | 0.090 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | ND | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 0.10 | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | ND | 0.19 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.50 | ND | 0.083 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | ND | 0.052 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 0.067 | |
| 91-20-3 | Naphthalene | ND | 0.50 | ND | 0.095 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | ND | 0.047 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Verina Consulting Group, LLC
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao/Wida Ang
 Sample Type: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 3/21/18
 Date(s) Received: 3/27/18
 Date(s) Analyzed: 3/30 - 4/2/18

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|--------------------|---------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P180330-MB | 102 | 99 | 94 | 70-130 | |
| Method Blank | P180402-MB | 94 | 102 | 100 | 70-130 | |
| Lab Control Sample | P180330-LCS | 103 | 98 | 96 | 70-130 | |
| Lab Control Sample | P180402-LCS | 93 | 100 | 101 | 70-130 | |
| IA-8 | P1801538-001 | 103 | 97 | 99 | 70-130 | |
| IA-9 | P1801538-002 | 94 | 99 | 101 | 70-130 | |
| IA-2 | P1801538-003 | 90 | 100 | 102 | 70-130 | |
| IA-5 | P1801538-004 | 89 | 101 | 103 | 70-130 | |
| IA-3 | P1801538-005 | 87 | 101 | 104 | 70-130 | |
| AA-1 | P1801538-006 | 88 | 101 | 104 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Lab Control Sample
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180330-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 213 | 187 | 88 | 64-115 | |
| 74-87-3 | Chloromethane | 210 | 203 | 97 | 47-140 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 211 | 189 | 90 | 60-112 | |
| 75-01-4 | Vinyl Chloride | 211 | 193 | 91 | 63-127 | |
| 106-99-0 | 1,3-Butadiene | 210 | 208 | 99 | 57-149 | |
| 74-83-9 | Bromomethane | 210 | 191 | 91 | 63-132 | |
| 75-00-3 | Chloroethane | 210 | 205 | 98 | 68-129 | |
| 64-17-5 | Ethanol | 1,040 | 1060 | 102 | 62-131 | |
| 75-05-8 | Acetonitrile | 210 | 214 | 102 | 56-136 | |
| 107-02-8 | Acrolein | 209 | 200 | 96 | 60-132 | |
| 67-64-1 | Acetone | 1,050 | 1060 | 101 | 63-124 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 208 | 187 | 90 | 65-113 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 422 | 420 | 100 | 62-135 | |
| 107-13-1 | Acrylonitrile | 212 | 216 | 102 | 68-138 | |
| 75-35-4 | 1,1-Dichloroethene | 213 | 196 | 92 | 72-118 | |
| 75-09-2 | Methylene Chloride | 213 | 189 | 89 | 67-116 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 212 | 215 | 101 | 61-143 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 214 | 188 | 88 | 68-113 | |
| 75-15-0 | Carbon Disulfide | 214 | 207 | 97 | 68-120 | |
| 156-60-5 | trans-1,2-Dichloroethene | 214 | 211 | 99 | 71-125 | |
| 75-34-3 | 1,1-Dichloroethane | 212 | 194 | 92 | 68-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 213 | 202 | 95 | 60-123 | |
| 108-05-4 | Vinyl Acetate | 1,060 | 1230 | 116 | 73-135 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Lab Control Sample
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180330-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 204 | 96 | 70-129 | |
| 156-59-2 | cis-1,2-Dichloroethene | 212 | 204 | 96 | 69-121 | |
| 110-54-3 | n-Hexane | 213 | 208 | 98 | 61-124 | |
| 67-66-3 | Chloroform | 212 | 191 | 90 | 69-113 | |
| 107-06-2 | 1,2-Dichloroethane | 212 | 190 | 90 | 62-120 | |
| 71-55-6 | 1,1,1-Trichloroethane | 212 | 193 | 91 | 65-116 | |
| 71-43-2 | Benzene | 213 | 185 | 87 | 66-111 | |
| 56-23-5 | Carbon Tetrachloride | 214 | 193 | 90 | 64-122 | |
| 78-87-5 | 1,2-Dichloropropane | 212 | 202 | 95 | 69-121 | |
| 75-27-4 | Bromodichloromethane | 214 | 209 | 98 | 69-123 | |
| 79-01-6 | Trichloroethene | 212 | 179 | 84 | 69-112 | |
| 123-91-1 | 1,4-Dioxane | 213 | 205 | 96 | 74-123 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 208 | 207 | 100 | 74-129 | |
| 108-10-1 | 4-Methyl-2-pentanone | 213 | 223 | 105 | 66-138 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 213 | 208 | 98 | 75-130 | |
| 79-00-5 | 1,1,2-Trichloroethane | 212 | 198 | 93 | 73-117 | |
| 108-88-3 | Toluene | 211 | 183 | 87 | 66-114 | |
| 591-78-6 | 2-Hexanone | 211 | 204 | 97 | 58-146 | |
| 124-48-1 | Dibromochloromethane | 212 | 197 | 93 | 67-130 | |
| 106-93-4 | 1,2-Dibromoethane | 211 | 185 | 88 | 70-127 | |
| 123-86-4 | n-Butyl Acetate | 215 | 212 | 99 | 62-140 | |
| 127-18-4 | Tetrachloroethene | 212 | 182 | 86 | 62-119 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Lab Control Sample
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180330-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Wida Ang
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/30/18
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 108-90-7 | Chlorobenzene | 212 | 178 | 84 | 66-115 | |
| 100-41-4 | Ethylbenzene | 212 | 189 | 89 | 69-117 | |
| 179601-23-1 | m,p-Xylenes | 424 | 386 | 91 | 67-117 | |
| 75-25-2 | Bromoform | 212 | 191 | 90 | 67-135 | |
| 100-42-5 | Styrene | 211 | 192 | 91 | 70-128 | |
| 95-47-6 | o-Xylene | 211 | 194 | 92 | 67-118 | |
| 111-84-2 | n-Nonane | 212 | 204 | 96 | 61-127 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 212 | 208 | 98 | 70-125 | |
| 98-82-8 | Cumene | 212 | 190 | 90 | 68-116 | |
| 80-56-8 | alpha-Pinene | 213 | 204 | 96 | 69-122 | |
| 622-96-8 | 4-Ethyltoluene | 211 | 199 | 94 | 69-124 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 212 | 194 | 92 | 65-117 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 212 | 197 | 93 | 67-124 | |
| 100-44-7 | Benzyl Chloride | 212 | 203 | 96 | 75-142 | |
| 541-73-1 | 1,3-Dichlorobenzene | 212 | 179 | 84 | 70-124 | |
| 106-46-7 | 1,4-Dichlorobenzene | 214 | 173 | 81 | 63-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 214 | 186 | 87 | 66-125 | |
| 5989-27-5 | d-Limonene | 213 | 213 | 100 | 64-135 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 210 | 197 | 94 | 73-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 218 | 176 | 81 | 70-141 | |
| 91-20-3 | Naphthalene | 209 | 158 | 76 | 71-146 | |
| 87-68-3 | Hexachlorobutadiene | 212 | 188 | 89 | 63-126 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Lab Control Sample
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180402-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/2/18
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 213 | 165 | 77 | 64-115 | |
| 74-87-3 | Chloromethane | 210 | 166 | 79 | 47-140 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 211 | 189 | 90 | 60-112 | |
| 75-01-4 | Vinyl Chloride | 211 | 165 | 78 | 63-127 | |
| 106-99-0 | 1,3-Butadiene | 210 | 166 | 79 | 57-149 | |
| 74-83-9 | Bromomethane | 210 | 184 | 88 | 63-132 | |
| 75-00-3 | Chloroethane | 210 | 204 | 97 | 68-129 | |
| 64-17-5 | Ethanol | 1,040 | 974 | 94 | 62-131 | |
| 75-05-8 | Acetonitrile | 210 | 196 | 93 | 56-136 | |
| 107-02-8 | Acrolein | 209 | 196 | 94 | 60-132 | |
| 67-64-1 | Acetone | 1,050 | 1030 | 98 | 63-124 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 208 | 182 | 88 | 65-113 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 422 | 390 | 92 | 62-135 | |
| 107-13-1 | Acrylonitrile | 212 | 207 | 98 | 68-138 | |
| 75-35-4 | 1,1-Dichloroethene | 213 | 201 | 94 | 72-118 | |
| 75-09-2 | Methylene Chloride | 213 | 191 | 90 | 67-116 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 212 | 204 | 96 | 61-143 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 214 | 199 | 93 | 68-113 | |
| 75-15-0 | Carbon Disulfide | 214 | 205 | 96 | 68-120 | |
| 156-60-5 | trans-1,2-Dichloroethene | 214 | 205 | 96 | 71-125 | |
| 75-34-3 | 1,1-Dichloroethane | 212 | 189 | 89 | 68-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 213 | 199 | 93 | 60-123 | |
| 108-05-4 | Vinyl Acetate | 1,060 | 1250 | 118 | 73-135 | |

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ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Lab Control Sample
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180402-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/2/18
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 78-93-3 | 2-Butanone (MEK) | 212 | 202 | 95 | 70-129 | |
| 156-59-2 | cis-1,2-Dichloroethene | 212 | 197 | 93 | 69-121 | |
| 110-54-3 | n-Hexane | 213 | 200 | 94 | 61-124 | |
| 67-66-3 | Chloroform | 212 | 187 | 88 | 69-113 | |
| 107-06-2 | 1,2-Dichloroethane | 212 | 179 | 84 | 62-120 | |
| 71-55-6 | 1,1,1-Trichloroethane | 212 | 188 | 89 | 65-116 | |
| 71-43-2 | Benzene | 213 | 185 | 87 | 66-111 | |
| 56-23-5 | Carbon Tetrachloride | 214 | 191 | 89 | 64-122 | |
| 78-87-5 | 1,2-Dichloropropane | 212 | 195 | 92 | 69-121 | |
| 75-27-4 | Bromodichloromethane | 214 | 203 | 95 | 69-123 | |
| 79-01-6 | Trichloroethene | 212 | 188 | 89 | 69-112 | |
| 123-91-1 | 1,4-Dioxane | 213 | 205 | 96 | 74-123 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 208 | 205 | 99 | 74-129 | |
| 108-10-1 | 4-Methyl-2-pentanone | 213 | 213 | 100 | 66-138 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 213 | 206 | 97 | 75-130 | |
| 79-00-5 | 1,1,2-Trichloroethane | 212 | 200 | 94 | 73-117 | |
| 108-88-3 | Toluene | 211 | 194 | 92 | 66-114 | |
| 591-78-6 | 2-Hexanone | 211 | 200 | 95 | 58-146 | |
| 124-48-1 | Dibromochloromethane | 212 | 210 | 99 | 67-130 | |
| 106-93-4 | 1,2-Dibromoethane | 211 | 201 | 95 | 70-127 | |
| 123-86-4 | n-Butyl Acetate | 215 | 208 | 97 | 62-140 | |
| 127-18-4 | Tetrachloroethene | 212 | 203 | 96 | 62-119 | |

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ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Verina Consulting Group, LLC
Client Sample ID: Lab Control Sample
Client Project ID: Dover-Binghamton / 5101.0003

ALS Project ID: P1801538
 ALS Sample ID: P180402-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/2/18
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 108-90-7 | Chlorobenzene | 212 | 194 | 92 | 66-115 | |
| 100-41-4 | Ethylbenzene | 212 | 199 | 94 | 69-117 | |
| 179601-23-1 | m,p-Xylenes | 424 | 401 | 95 | 67-117 | |
| 75-25-2 | Bromoform | 212 | 207 | 98 | 67-135 | |
| 100-42-5 | Styrene | 211 | 207 | 98 | 70-128 | |
| 95-47-6 | o-Xylene | 211 | 200 | 95 | 67-118 | |
| 111-84-2 | n-Nonane | 212 | 198 | 93 | 61-127 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 212 | 212 | 100 | 70-125 | |
| 98-82-8 | Cumene | 212 | 199 | 94 | 68-116 | |
| 80-56-8 | alpha-Pinene | 213 | 211 | 99 | 69-122 | |
| 622-96-8 | 4-Ethyltoluene | 211 | 208 | 99 | 69-124 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 212 | 199 | 94 | 65-117 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 212 | 200 | 94 | 67-124 | |
| 100-44-7 | Benzyl Chloride | 212 | 217 | 102 | 75-142 | |
| 541-73-1 | 1,3-Dichlorobenzene | 212 | 194 | 92 | 70-124 | |
| 106-46-7 | 1,4-Dichlorobenzene | 214 | 192 | 90 | 63-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 214 | 195 | 91 | 66-125 | |
| 5989-27-5 | d-Limonene | 213 | 210 | 99 | 64-135 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 210 | 198 | 94 | 73-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 218 | 187 | 86 | 70-141 | |
| 91-20-3 | Naphthalene | 209 | 167 | 80 | 71-146 | |
| 87-68-3 | Hexachlorobutadiene | 212 | 182 | 86 | 63-126 | |

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