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April 17, 2017

Mr. Stanley Radon
Senior Engineering Geologist
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2915

Subject: ***Final 2016 Annual Summary and Site Maintenance and Monitoring Report Comments***
Textron, Inc.
Site No. 932052
Wheatfield, New York

Dear Mr. Radon:

CB&I Environmental & Infrastructure, Inc. (CB&I) is in receipt of your April 5, 2017 comment letter. On behalf of Textron, Inc. (Textron), CB&I has revised the *2016 Annual Summary and Site Maintenance and Monitoring Report* to address the New York State Department of Environmental Conservation's (the Department's) comments and provides the following responses to the Department's requests.

Section 2.3.1, Section 3.2.2 and Section 3.2.4

The appropriate changes have been made to these sections of text in the attached revised *2016 Annual Summary and Site Maintenance and Monitoring Report*.

Section 4.1

CB&I is currently scheduled to collect groundwater samples from Extraction Wells EW-2, EW-3, EW-4, EW-5, and EW-6 and Monitoring Well 93-03(1) on April 18, 2017. A letter report reviewing the Off-Site System performance and efficiency will be submitted to the Department before June 30, 2017.

Section 5.0

CB&I will prepare and submit a Bioremediation Work Plan and implementation schedule to the Department before July 31, 2017.

PFCs/PFAS and 1,4-Dioxane Sampling

CB&I and Textron acknowledge the Department's request to analyze groundwater for 1,4-dioxane and perfluorinated compounds (PFCs)/perfluoroalkyl substances (PFAS) using U.S. Environmental Protection Agency Methods 8260 SIM and 537, respectively. These samples will be collected and analyzed in conjunction with the annual groundwater sampling event scheduled for October 2017. Textron proposes to analyze groundwater samples collected from the following locations for 1,4-dioxane and PFCs/PFAS:

- 87-14 (0)
- 87-17 (1)
- B-14 (1)
- 87-20 (0)
- 87-22 (1)

This number represents approximately 20 percent of the locations scheduled for sampling in October 2017. The results of this sampling event will be submitted to the Department before December 31, 2017.

CB&I and Textron appreciate the Department's consideration of these matters. If there are any further questions or concerns, please feel free to contact Greg Simpson at (401) 457-2635 or me at (412) 858-3977.

Sincerely,

Cecelia Byers

Cecelia Byers
Project Manager 1

CB:lmk

cc: Mr. Greg Simpson – Textron
Mr. Matthew Forcucci – NYSDOH
Town Supervisor – Wheatfield
Mr. Wilfred Palomino – USEPA
Ms. Kathleen Emery – NYSDEC
Mr. Brian Sadowski – NYSDEC
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File

2016 ANNUAL SUMMARY AND SITE MAINTENANCE AND MONITORING REPORT

Former Bell Aerospace Facility
Wheatfield, New York

Prepared for:

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Submitted by:

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List of Acronyms & Abbreviations

µg/L	micrograms per liter
1,1,1-TCA	1,1,1-trichloroethane
CB&I	CB&I Environmental & Infrastructure, Inc.
DHC	*Dehalococcoides mccartyi*
DNAPL	dense non-aqueous phase liquid
ft/day	feet per day
ft/ft	foot per foot
gpd	gallons per day
NCSD	Niagara County Sewer District
NYSDEC	New York State Department of Environmental Conservation
NYSGWQS	New York State Groundwater Quality Standards
O&M	operations and maintenance
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
TCE	trichloroethene
Textron	Textron Inc.
TVOC	total volatile organic compound
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

1.0 Introduction

CB&I Environmental & Infrastructure, Inc. (CB&I) has prepared this report to present the results of ongoing remedial and groundwater monitoring activities at the former Bell Aerospace Facility in Wheatfield, New York. This report discusses all activities conducted during the 12-month monitoring period from January 1, 2016 through December 31, 2016. This report is submitted in accordance with Textron Inc.'s (Textron) New York State Department of Environmental Conservation (NYSDEC) Order on Consent, Index No. 932052-01-04, effective December 16, 2014. This report discusses existing groundwater quality conditions, reviews annual system maintenance tasks, and presents any proposed changes to the current Groundwater Monitoring Plan and recommendations to optimize the operation of the Off-Site (based on 24 years of operation) and On-Site (based on 22 years of operation) groundwater remedial systems.

1.1 Background

The Off-Site System consists of six Zone 1 bedrock groundwater extraction wells (designated EW-1 through EW-6) connected by a subsurface double-containment pipeline that discharges the extracted groundwater to the Niagara County Sewer District (NCSD) Publicly Owned Treatment Works. Figure 1 presents a site layout showing the locations of the extraction wells and the groundwater monitoring points. The Off-Site System has been operating since March 1993. Extraction Well EW-1 was taken out of service during system startup in March 1993, based on the hydraulic response observed during system startup. Extraction Well EW-6 was taken off line on April 11, 1996 in an attempt to reduce the constituent concentration at the southern boundary of the dissolved phase plume in the area of EW-6. The cessation of groundwater extraction at EW-6 allowed Extraction Well EW-5 to "draw" the dissolved phase plume boundary (just to the south of EW-6) to the north. As part of an extended pilot study requested by the NYSDEC, Extraction Well EW-5 was taken off line on September 5, 2013 while Extraction Wells EW-2, EW-3, and EW-4 remained operational. The purpose of this pilot study was to configure the system to induce the edge of the "plume" in a northerly direction by turning off the southernmost extraction well while demonstrating that three extraction wells can continue to control the plume. The Off-Site System continues to operate in this configuration with the permission of the NYSDEC.

The On-Site System consists of seven Zone 1 bedrock groundwater extraction wells (designated EW-7, EW-8, EW-13, and DW-9 through DW-12) connected by a subsurface double-containment pipeline that delivers the extracted groundwater to the On-Site Treatment Plant. At the treatment plant, dissolved volatile organic compounds (VOCs) are removed from the groundwater using an air stripper to aerate the water prior to the water being processed through granular activated carbon units. The recovered groundwater is ultimately discharged to the Walmore Road storm sewer

under a National Pollution Discharge Elimination System permit. Figure 1 presents a site layout showing the location of the extraction wells and the groundwater monitoring points.

Construction of the system was initiated on September 20, 1993 and was substantially completed in late 1994. Startup of the system began in April 1995. Extraction Well DW-9 was taken off line on May 26, 1998 to focus remedial efforts on the southern property line of the facility near Wells EW-7 and EW-8. Extraction Well EW-13 was added to the system approximately midway between these wells and was activated on September 25, 1998 in order to form a better hydraulic barrier between Wells EW-7 and EW-8.

2.0 Field Sampling Activities

2.1 General

CB&I personnel performed field sampling activities according to the procedures detailed in the Groundwater Monitoring Plan. Semiannual groundwater monitoring was performed on April 27, 2016 and October 19 and 20, 2016 for the monitoring wells listed in Table 1.

The well locations are shown on Figure 1. The following sections provide details of the field activities and procedures associated with the monitoring and gauging program. As detailed in the Groundwater Monitoring Plan, groundwater quality sampling occurs on an annual basis (October) whereas gauging of the monitoring well network is conducted semiannually (April and October).

2.2 Hydraulic Monitoring

Groundwater elevations were measured at each monitoring well using an electronic oil/water level meter capable of measuring to an accuracy of 0.01 foot to determine the depth to water and total well depth (depth to the bottom) to calculate the height of the water column. Non-aqueous phase liquid was not detected in any of the wells gauged and has not been encountered in over 14 years. A summary of the water level measurements obtained during the April and October 2016 sampling events is presented in Table 2. The groundwater elevation data were used to construct the groundwater contour maps. The groundwater level elevations from the Zone 1 wells for both the On-Site and Off-Site areas are presented on Figures 2 and 3 for the April 2016 event and Figures 4 and 5 for the October 2016 event.

2.2.1 Off-Site System

Groundwater elevation contour maps of the Zone 1 bedrock aquifer in the vicinity of the On-Site and Off-Site systems are presented on Figures 2 and 4. These maps show a consistent and significant overlap of the cones of depression and the contaminant plume in the Off-Site area, which is one of the design goals of the system. The hydraulic response to pumping of the Off-Site System has remained reasonably consistent since system startup in March 1993, although precipitation (especially when heavy or prolonged) has been shown to have an impact on the overall elevation of the cone of depression. Specifically, heavy precipitation events tend to raise the water table elevation in all of the wells in the Off-Site area. However, an inward hydraulic gradient toward the Off-Site pumping system has always been observed and maintained as specified in the system design goals.

Groundwater flow directions, as shown on Figures 2 and 4, have remained relatively consistent within the developed cone of depression, moving generally toward the operating extraction wells of the Off-Site System. Note that since September 5, 2013, EW-5 has been non-operational as part

of an NYSDEC-approved evaluation regarding the ability of the three northernmost extraction wells to contain the prevailing southerly migration of impacted groundwater. This pilot study has proven to be successful, and the NYSDEC has granted a provisional shutdown of Extraction Well EW-5. The horizontal hydraulic gradient in the area immediately north of the Off-Site System during October 2016 was approximately 0.0087 foot per foot (ft/ft), as determined from water levels recorded in Wells 87-20(1) and EW-2 (Figure 4). This number is generally consistent with the horizontal gradient in this area over the past several years.

The average linear velocity of groundwater can be calculated from hydraulic gradient data. To calculate this velocity (v), the average Zone 1 hydraulic conductivity (K) of 2×10^{-3} centimeters per second; an effective porosity (n_e) value of 3 percent, as presented in the Resource Conservation and Recovery Act (RCRA) Facility Investigation for the former Textron facility (Golder, 1991); and the calculated hydraulic gradient (i) between Wells 87-20(1) and EW-2 as recorded during October 2016 were used. The formula is:

$$v = (Ki)/n_e$$

The average linear velocity of groundwater in the area immediately north of the Off-Site System during October 2016 was approximately 1.65 feet per day (ft/day), based on the hydraulic gradient of 0.0087 ft/ft. The flow rates are comparable from year to year.

2.2.2 On-Site System

The hydraulic response of the On-Site System throughout this year has met the following design expectations:

- Establishing a zone of groundwater capture over the former dense non-aqueous phase liquid (DNAPL) plume (which has not been encountered in over 14 years)
- Maintaining an upward hydraulic gradient between the Zone 3 (deep) and Zone 1 (shallow) bedrock aquifers
- Maintaining a downward hydraulic gradient between the overburden and the Zone 1 aquifer
- Establishing a groundwater capture zone along the southern property boundary of the Textron facility between Extraction Wells EW-7, EW-13, and EW-8

The groundwater capture zone created by operation of the On-Site System in the Zone 1 aquifer over the former DNAPL plume remains stable in its size and gradient when compared to previous years due to recent enhancements and repairs to the system. The Zone 1 semiannual groundwater contour maps (Figures 3 and 5) illustrate that the On-Site System is producing a hydraulic capture zone in Zone 1.

Groundwater elevation measurements obtained during the October 20, 2016 hydraulic monitoring event were used for these calculations. Horizontal hydraulic gradients of 0.0114 ft/ft and 0.0119 ft/ft were calculated between well sets 87-01(1) and EW-8, and 87-02(1) and DW-12, respectively. The On-Site groundwater flow rate, using a hydraulic conductivity value of 2×10^{-3} centimeters per second and an effective porosity value of 3 percent (the same parameters as used for the Off-Site area), is 2.15 ft/day, based on a gradient of 0.0114 ft/ft between 87-01(1) and EW-8. The value for the hydraulic gradient calculated between Wells 87-02(1) and DW-12 is 2.26 ft/day, based on a horizontal hydraulic gradient of 0.0019 ft/ft.

All data from 2016 indicate that the desired upward gradients between Zones 3 and 1, and downward gradients between the overburden aquifer and Zone 1, were observed in the On-Site well clusters measured. A summary of vertical hydraulic gradients between Zones 1 and 3 based on the past year's hydraulic monitoring data is included as Tables 3A and 3B. The data indicate that the hydraulic gradients range from 0.07 to 0.52 ft/ft. Maintenance of this "upward gradient" shows effective containment of the plume within Zone 1 as required in the system design specifications. It should be noted that the April 2016 hydraulic event was completed with the extraction wells (designated DW-9, DW-10, DW-11, and DW-12) off line with the consent of the NYSDEC. An upward gradient, ranging from 0.07 to 0.34 ft/ft, was maintained with these locations off line.

The On-Site groundwater elevation contour map for the Zone 3 bedrock aquifer for October 2016 is included as Figure 6. It indicates that groundwater flow in the Zone 3 aquifer is primarily in a southeasterly direction, which is consistent with the observed flow direction prior to operation of the On-Site System.

2.3 Groundwater Sampling

2.3.1 General

Three limited supplemental groundwater sampling events were completed proactively by Textron in April 2016 to assess the groundwater quality in the Zone 3 monitoring wells, assess the performance of the Off-Site System pilot test, and confirm groundwater quality in Monitoring Well 87-20(0).

The annual groundwater quality monitoring event was conducted on October 19 and 20, 2016. Table 1 lists the monitoring wells, sampling schedule, and analysis as required by Order on Consent Index Number 932052-01-04.

CB&I personnel performed field sampling activities according to the procedures detailed in the Groundwater Monitoring Plan. Detailed discussions of the Off-Site and On-Site System operations, groundwater quality, and hydraulic monitoring are included in the respective

semiannual reports. The following sections present general trends that have been noted during the past calendar year.

2.3.2 Monitoring and Extraction Well Sampling

Groundwater samples were collected during April 2016 from three locations (Zone 3 Bedrock Wells, Off-Site Extraction System, and Monitoring Well 87-20(0)) on the site. These three supplemental sampling events were performed to:

- Generate groundwater data to assess groundwater quality in the Zone 3 aquifer
- Assess the ability of the three northernmost extraction wells to contain the prevailing southerly migration of impacted groundwater
- Confirm the groundwater quality in Monitoring Well 87-20(0)

Further discussion regarding the sampling results for these events and the October 2016 monitoring event is included in Section 3.2.

Representative samples were collected from 20 of the 21 monitoring wells scheduled for the annual groundwater sampling event on October 19 and 20, 2016; Monitoring Well 89-14(0) did not contain sufficient groundwater volume to collect a representative sample. Twelve extraction wells (EW-2, EW-3, EW-4, EW-5, EW-6, EW-7, EW-8, DW-9, DW-10, DW-11, DW-12, and EW-13) were scheduled for sampling during the October 2016 monitoring event. The monitoring locations are shown on Figure 1.

The physical integrity of each location was visually inspected and noted prior to sampling. Each extraction well was inspected prior to entering to ensure that the vault entranceway was free of obstructions. The ambient air inside the vaults was analyzed for lower explosive limit, oxygen deficiency, hydrogen sulfide, and carbon monoxide using a multi-gas meter prior to entry. No readings of an ambient air quality parameter greater than background concentrations (or outside of normal ranges for oxygen) were recorded. Well inspection forms are included as Appendix A.

Water level and total depth measurements were recorded and the volume of standing water in each well was calculated. A minimum of three times the calculated volume was purged from each well or the well was purged until it was deemed "dry" using a submersible pump. All purge water was collected in a 1,500-gallon poly tank and transported to Textron's On-Site Treatment Plant for treatment. For the sampling of all operational extraction wells (with the exception of DW-9 and EW-5), the submersible pump in each extraction well was allowed to operate for at least 5 minutes prior to sample collection to obtain a representative aliquot of groundwater. The dedicated tubing attached to each well's sampling port was purged for approximately 1 minute prior to collection. Extraction Well DW-9 currently has no pump (it is inactive as approved by the NYSDEC) and

was sampled using a dedicated bailer in the same manner as the monitoring wells. DW-9 was not purged prior to sampling, per NYSDEC approval, due to the large purge volume that would be required to be manually removed.

Field groundwater quality parameters (i.e., pH, specific conductance, and temperature) were monitored during purging and prior to sampling. These and other observations were recorded on field sampling forms. The field observations and measurements are summarized on Table 4; the Field Sampling Data Sheets are included as Appendix B.

Immediately following collection, sample vials were placed into a cooler filled with ice to maintain an approximate temperature of 4 degrees Celsius. The samples were transferred under proper chain-of-custody to ALS Environmental, Inc. personnel for transport to their Rochester, New York, laboratory. The chain-of-custody forms are included as Appendix C. The samples were analyzed for VOCs using U.S. Environmental Protection Agency (USEPA) SW-846 Method 8260B.

2.4 Maintenance of Monitoring Points

Monitoring wells are visually inspected and accessed semiannually during the routine hydraulic monitoring events. Annual well inspection checklists are completed for each sampled monitoring well.

None of the monitoring wells required repairs or additional maintenance work during the 2016 calendar year.

Even though all adjacent residences are supplied with public water, some residents have retained private wells for non-potable usage. Textron annually sends letters to private well owners offering to pay for closure of their wells. Letters were sent out via U.S. Postal Service Return Receipt on June 9, 2016. Two letters were returned to sender, while the third letter was signed for by Bonita Aramini but no form was returned to CB&I. Details of this effort were reported to Textron, the New York State Department of Health, and NYSDEC in a letter report dated August 29, 2016.

3.0 Laboratory Analytical Methods and Results

3.1 Analytical Methods

All groundwater samples were analyzed for VOCs via USEPA SW-846 Method 8260B. The complete laboratory analytical report from each sampling point, as well as the associated quality assurance/quality control (QA/QC) data, are included as Appendix D.

3.2 Analytical Results

3.2.1 Zone 3 Groundwater Quality Sampling

With the NYSDEC's consent, the DNAPL Extraction Wells DW-10, DW-11, and DW-12 were taken off line on March 24, 2016 in order to obtain "static state" measurements on the aquifers (overburden, Zone 1, and Zone 3) during this event. All of the Zone 3 bedrock monitoring wells (87-02(3), 87-04(3), 87-05(3), 87-13(3), 87-14(3), 87-15(3), and 87-16(3)(B)) were sampled on April 18, 2016 as part the ongoing evaluation of groundwater quality in the Zone 3 monitoring wells. Additionally, the paired Zone 1 bedrock monitoring wells (87-02(1), 87-04(1), 87-05(1), 87-13(1), 87-14(1), and 87-15(1)) and overburden Monitoring Well 87-13(0) were gauged for depth to water, the presence of DNAPL, and depth to bottom. None of the wells reported the presence of separate phase product (i.e., DNAPL) and none of the monitoring wells exhibited photoionization detector headspace readings above 0.0 parts per million by volume.

Groundwater flow in the Zone 3 bedrock remains consistent toward the southeast and does not appear to be strongly influenced by the operation of the former DNAPL extraction wells. A positive vertical gradient upwards from Zone 3 to Zone 1 continues to be maintained without the operation of the DW series extraction wells (DW-10, DW-11, and DW-12); these wells were taken off line for 30 days with the permission of the NYSDEC in order to obtain "static state" conditions on the aquifers.

Both trichloroethene (TCE) and cis-1,2-dichloroethene are observed at elevated concentrations in the sample collected from Monitoring Well 87-13(3), which is located directly downgradient of the former Neutralization Pond. Samples collected from Monitoring Wells 87-05(3), 87-13(3), 87-14(3), 87-15(3), and 87-16(3B) reported compounds at concentrations above the New York State Groundwater Quality Standards (NYSGWQS). The groundwater samples collected from Monitoring Wells 87-15(3) and 87-16(3B) reported concentrations of 1,1,1-trichloroethane (1,1,1-TCA) above the NYSGWQS of 5 micrograms per liter (µg/L). 1,1,1-TCA is not one of the listed contaminants of concern for the former Bell Aerospace property. Increases in 1,1,1-TCA were observed during the 2011 and 2012 sampling events in upgradient Monitoring Well 87-17(1), as reported in CB&I's letter to the NYSDEC dated June 17, 2013. The increases in VOC concentration trends could have several contributing factors including the following:

- Potential downgradient migration and comingling of the plume from the Ekonol property
- Fractures, as well as changes in the fractures over time, within the bedrock aquifers changing the connectivity between locations

Samples collected from Monitoring Wells 87-02(3) and 87-04(3) reported VOC concentrations that were below the laboratory method detection limits and within the NYSGWQS.

3.2.2 Off-Site System Efficiency Sampling

Samples were collected from the Off-Site System extraction wells (EW-2, EW-3, EW-4, EW-5, and EW-6) and Monitoring Well 93-03(1) on April 27, 2016. This sampling event was performed to assess the ability of the three northernmost extraction wells to contain the prevailing southerly migration of impacted groundwater. These wells continue to be successful in controlling the southerly migration of the dissolved phase plume, and the NYSDEC has extended the provisional shutdown of Extraction Well EW-5.

The sample collected from Monitoring Well 93-03(1) had a methylene chloride concentration of 1.7 µg/L, which is below the NYSGWQS of 5 µg/L. Methylene chloride was also reported in the field blank at an estimated concentration below the laboratory method detection limit. Such low level concentrations could be related to laboratory practices rather than groundwater quality.

The primary contaminant of concern in this area has historically been cis-1,2-dichloroethene, which was not detected during this sampling event.

The results of these sampling events were presented to the NYSDEC in a letter report dated July 21, 2016. With the concurrence of the NYSDEC, the Off-Site System will remain in its present configuration with Extraction Wells EW-2, EW-3, and EW-4 operational. Groundwater samples will be collected from Extraction Wells EW-2, EW-3, EW-4, EW-5, and EW-6 and Monitoring Well 93-03(1) in April 2017 to continue to monitor the efficiency of the system in this operational configuration.

3.2.3 Monitoring Well 87-20(0) Groundwater Quality Sampling

Per the NYSDEC's direction in their March 8, 2016 comment letter, groundwater samples were collected from Monitoring Well 87-20(0) on April 27, 2016 to confirm the presence of TCE reported during the October 2015 sampling event. Laboratory analysis of the samples did not detect any VOCs at concentrations above the method detection limits. The lack of any detected VOCs in the groundwater sample collected from Monitoring Well 87-20(0) indicates that the estimated detection reported in October 2015 may have been anomalous or laboratory related.

3.2.4 Annual Groundwater Sampling

Thirty-one groundwater samples were collected in October 2016. A comparison of these data with either the October 2015 or April 2016 groundwater analytical results indicates that 11 sample locations showed a decrease in total VOC (TVOC) concentrations, 19 samples showed an increase in TVOC concentrations, and one location (87-02(3)) did not exhibit any TVOCs above pertinent laboratory detection limits during either sampling event. The changes in concentration are presented on a map in Figure 7. A summary of compounds analyzed for the October 2016 monitoring event is included as Table 5, and historical analytical results for each monitoring point are included as Appendix E.

Total VOC concentrations have continued to decrease in most monitoring and extraction wells that have been sampled. TVOC concentrations were calculated by summing the concentrations of all detected compounds for a sample. For the On-Site area, there is an overall decreasing trend in TVOC concentrations since 1993 as illustrated by Figure 8 (the TVOC concentration versus time plot of analytical results from Monitoring Well 89-15(1)). This location did show an increase in TVOC concentrations between October 2015 and October 2016; however, the overall historic trend of groundwater quality concentrations in this monitoring well continues to decline.

The historic trend in TVOC concentrations for the area between the On-Site and Off-Site systems is shown on Figure 9 (TVOC concentration versus time plot of analytical results from Monitoring Well 87-20(1), located north of the Off-Site System). This location shows a 34.1 percent decrease in TVOC concentrations between October 2015 and October 2016. These results are within established historical trends and consistent with concentrations previously observed.

The TVOC concentration versus time plot of analytical results from Extraction Well EW-4 is included as Figure 10. This location remained at the same TVOC concentration (94 µg/L) between sampling events completed in October 2015 and October 2016. This location continues to demonstrate a significant decreasing trend since the termination of groundwater recovery from Extraction Well EW-5. When compared to the 2012 TVOC concentration (236 µg/L), there has been a 60 percent decrease in TVOCs in this location since Extraction Well EW-5 was taken off line.

The approximate limit of the dissolved phase plume in the Zone 1 bedrock aquifer (defined as the 1 part per billion isochron line), based upon the groundwater quality monitoring data collected during the October 2016 annual monitoring event, is shown on Figure 11. The extent of the dissolved phase plume in Zone 1 remained stable in size between 2015 and 2016. This is most likely related to the continued shutdown of Extraction Well EW-5.

The extent of the dissolved phase "plume" in the shallow overburden monitoring wells (based upon the groundwater analytical results obtained from the October 2016 annual monitoring event)

is shown on Figure 12. The extent of the plume/dissolved phase detections has been significantly reduced in size and concentration since 1990 and continues to be limited primarily to the facility property.

3.3 QA/QC Samples

Two field blanks (BAT-FB-1-161019 and BAT-FB-2-161020) were prepared in the sampling area each day prior to the start of activities. Two blind duplicate samples identified as BAT-DUP-1-161019 (Monitoring Well 87-22(1)) and BAT-DUP-2-161020 (Monitoring Well 87-14(0)) were collected. Two matrix spike and matrix spike duplicate samples were also collected from Monitoring Well 87-08(1) and Extraction Well EW-2. Laboratory-supplied trip blanks accompanied all of the samples during transport. All method-specific QA/QC blanks and samples were analyzed for VOCs via USEPA SW-846 Method 8260B.

3.4 Data Review

The analytical reports from the annual sampling event were sent out for third party validation by Data Validation Services. Sample analyses were primarily conducted in compliance with the required analytical protocols. Sample results are usable either as reported or with minor qualification or edit. The report produced by Data Validation Services is included as Appendix F.

4.0 Summary of Off-Site and On-Site Extraction System Operations

4.1 Review of Off-Site and On-Site System Operations

4.1.1 Off-Site System

There were no permanent operational changes made to the Off-Site System during the 2016 calendar year. A total of 17,574,742 gallons of groundwater was extracted by the Off-Site System during the 2016 calendar year; the volume of water discharged is measured by using either or the sum of the individual well totalizers or the discharge totalizer at EW-6. Average flow rates varied from a low of 27,692 gallons per day (gpd) recorded in December 2016 to a high of 60,546 gpd recorded for April 2016.

As part of an extended pilot study, Extraction Well EW-5 was taken off line on September 5, 2013. As mentioned previously, the purpose of the pilot study was to attempt to induce the edge of the "plume" in a northern direction by turning off the southernmost extraction well and demonstrating that three extraction wells could maintain plume control in this area. While the extent of the plume remained stable, TVOC concentrations in Extraction Well EW-6 demonstrated a slight increase from the April events during the October 2016 sampling event; this increase could be attributed to abnormally low groundwater and drought conditions experienced in this region for the later portion of the summer and fall of 2016. This location continues to display an overall decrease in TVOC concentration when compared to the October 2012 analytical results.

Textron proposes to collect groundwater samples from Extraction Wells EW-2, EW-3, EW-4, EW-5, and EW-6 and Monitoring Well 93-03(1) in April 2017 to continue the evaluation of TVOC concentrations in these locations. The results of the groundwater sampling event and continued operation of the extended pilot test will be discussed with the NYSDEC upon receipt and evaluation of these data.

The flow rates and total volumes of treated water discussed previously are based on the telemetry information sent from the system and are reported semiannually to the NCSD.

4.1.2 On-Site System

Operational changes were made to the On-Site System during this reporting period; the thermal oxidizer, scrubber, Air Stripper ST-2, and Extraction Well DW-9 remain inactive as approved by the NYSDEC. The carbon units were emptied, reconditioned, and brought back into service as part of a proactive enhancement to the treatment system to continue to meet current more stringent NYSGWQS.

A total of 9,868,172 gallons of groundwater was recovered and treated by the On-Site System during the 2016 calendar year. Daily flow rates varied from an average daily low of 3,557 gpd

recorded during December 2016 and an average daily high of 50,258 gpd recorded during January 2016. These pumping and flow rates are based upon the monthly effluent totalizer readings and are reported monthly to the NYSDEC in the Discharge Monitoring Reports.

4.1.3 Repairs, Upgrades, and Enhancements to Systems

During the course of operation in 2016, several maintenance and repair events were completed in order to assure that the groundwater extraction systems remained operational.

On March 3, 2016, CB&I personnel completed operations and maintenance (O&M) activities on the Off-Site System including the cleaning of pumps and flow meters. Additionally, CB&I personnel replaced a malfunctioning pump in Extraction Well EW-4. As part of this repair, the well casing was cut down 23 inches to raise the pump inlet off the base of the borehole in an attempt to reduce the intake of sediment and extend the lifespan of the pump.

The NYSDEC approved the temporary shutdown of DNAPL Extraction Wells DW-10, DW-11, and DW-12. These wells were taken off line in an effort to observe "static state" conditions in the northern portion of the site's three aquifers (overburden, Zone 1, and Zone 3) and determine how the operation of the treatment system affects groundwater levels in the area. The locations were brought back on line on May 4, 2016 following the completion of the April gauging and sampling event.

On June 8 and 9, 2016, CB&I personnel completed O&M and repair activities on the On-Site System. The O&M activities included the cleaning of pump and flow meters in the extraction wells. Repairs included the replacement of the pump in Extraction Well EW-8 and adjusting it so that the pump inlet is above the base of the borehole in an effort to reduce the intake of sediment and extend the life span of the pump.

On September 30, 2016, Textron received a call from personnel at Wheatfield Business Park regarding an unknown substance that had been observed in the manhole of the storm water line to Outfall 002. CB&I personnel reviewed recent system operations as well as discharge rates and concentrations; nothing out of ordinary operational parameters was observed. Wheatfield Business Park was subsequently able to determine that the source of the substance was diesel/vegetable oil that a paving contractor had used to clean tools.

In December 2016, groundwater recovery of the On-Site System decreased because of high liquid levels in Feed Tank TK-1. On December 2, 2016, CB&I personnel cleaned the float tube for the Air Stripper in an attempt to remedy this decreased production rate. This repair was unsuccessful. Allied Environmental was contracted on December 21, 2016 to clean out TK-1 and the bag filter housing and to remove any built up sediment that could be restricting the tank's ability to

completely drain. Issues associated with the operation of the treatment system were traced to the carbon units in January 2017. The carbon was replaced in the vessels on February 10, 2017.

4.2 Discharge Monitoring

4.2.1 Off-Site System

As specified by Textron's NCSD Industrial Discharge Permit (No. 13-07, effective January 31, 2013), the extracted groundwater from the Off-Site System is required to be monitored for flow daily and sampled and analyzed for VOCs via USEPA Method 624 on a semiannual basis. Results of the sewer discharge monitoring conducted on April 28 and October 20, 2016 indicate that Textron remains in compliance with the NCSD permit. Copies of the letter reports submitted to the NCSD are included as Appendix G.

4.2.2 On-Site System

As required by Textron's National Pollution Discharge Elimination System Permit No. NY0000469, the extracted and treated groundwater discharged to the Walmore Road storm sewer is monitored for VOCs on a monthly basis. No "non-compliance" events were recorded during the 2016 calendar year. A total of 9,868,172 gallons of groundwater was extracted from the subsurface and treated by the On-Site System during the 2016 calendar year.

4.2.3 Site Inspections

Mr. Ron Gwozdek with the Niagara County Department of Health performed a site visit on January 19, 2016 as part of his 2015 annual inspection. The results of Mr. Gwozdek's inspection were received on February 1, 2016. The inspection report noted that Textron was in substantial compliance with its State Pollution Discharge Elimination System permit during the operational period. Mr. Gwozdek performed a second site inspection on December 15, 2016. The results of Mr. Gwozdek's inspection were received on January 25, 2017 and stated that Textron was in substantial compliance with its State Pollution Discharge Elimination System permit during the 2016 operational period.

4.3 Evaluation

4.3.1 Chemical Data for Off-Site and On-Site Systems

Thirty-nine groundwater monitoring events have been performed since the startup of the Off-Site System in 1993; the last 35 events have been completed under the combined Off-Site and On-Site Effectiveness Monitoring Program. During the 2016 annual sampling event, 19 of the 20 monitoring wells and 12 extraction wells were sampled for VOCs via USEPA SW-846 Method 8260B. The analytical results from this sampling event show concentrations and trends similar to the established historical fluctuations detected during previous events. The analytical results obtained during 2016 show decreases in VOC concentrations in 11of the 31 sampled locations.

4.3.2 Hydraulic Response for Off-Site and On-Site Systems

Off-Site System

Groundwater elevation contour maps of the Zone 1 bedrock aquifer in the vicinity of the On-Site and Off-Site systems for the April and October 2016 hydraulic monitoring events are presented on Figures 2 and 4, respectively. These maps indicate a consistent and significant overlap of the cone of depression (and the contaminant plume) in the Off-Site area. Groundwater flow direction has remained relatively consistent (toward the operating extraction wells) indicating that the remedial system is controlling groundwater migration in this area.

On-Site System

The hydraulic response of the On-Site System has met all of the following design expectations:

- Establishing a zone of groundwater capture over the former DNAPL plume
- Maintaining an upward hydraulic gradient between the Zone 3 and Zone 1 aquifers
- Maintaining a downward hydraulic gradient between the overburden and the Zone 1 aquifer
- Establishing a groundwater capture zone along the southern property boundary of the Textron facility between Extraction Wells EW-7, EW-13, and EW-8

Field data from the April 2016 hydraulic monitoring event (Table 2) indicate that the desired downward hydraulic gradient between the overburden and Zone 1 is present in all eight of the On-Site well pairs measured (well pairs 87-01, 87-04, 87-10, 87-13, 87-14, 87-15, 87-17, and 87-18); this was maintained without the operation of the DNAPL extraction wells. Additionally, field data obtained during the October event indicate that the desired downward gradient between the overburden and Zone 1 is again present in seven of the eight On-Site well pairs measured (well pairs 87-01, 87-10, 87-13, 87-14, 87-15, 87-17, and 87-18); no gradient information was available for well pair 87-04 because the overburden location was dry due to a lack of precipitation during the late summer and fall.

The field data presented in Table 2 also indicate that an upward hydraulic gradient between Zone 3 and Zone 1 is present in all of the well pairs measured (87-02, 87-04, 87-05, 87-13, 87-14, and 87-15) during both the April and October 2016 monitoring events. Tables 3A and 3B present a summary of vertical hydraulic gradients between Zones 1 and 3 from the April and October hydraulic monitoring data, respectively. The field data indicate that gradients range from 0.07 foot to 0.52 foot (upward). Maintenance of this "upward gradient" shows effective containment of the plume within Zone 1; the numbers presented in Table 3A were obtained with the DNAPL extraction well off line.

4.4 Routine Operational Corrective Measures

Inspection of the On-Site treatment facility was conducted every two weeks between January 1 and December 31, 2016 by CB&I personnel. During these inspections, flow meters were read, routine O&M activities were performed, equipment was re-set or adjusted as necessary, and any other activity required to maintain system functions was completed. Eighteen 55-gallon drums of Redux-525™ have been utilized during this monitoring period to reduce the inorganic deposition and biofouling of the treatment system.

Hazardous waste shipments left the facility on June 24, 2016 and December 7, 2016. The June shipment (Manifest No. 000139702 DAT) contained one drum of spent filter socks. The December shipment (Manifest No. 016303812 JJK) contained one drum of spent filter socks and one drum of plastic sheeting generated during cleaning of the air stripper tower.

Allied Environmental cleaned the air stripper tower on September 20 and 21, 2016; the system was manually shut down for a total of approximately 27.5 hours during this work.

5.0 Summary

5.1 Hydraulic Monitoring Data

Water level measurements were obtained from all of the monitoring wells and extraction wells on April 27, 2016 and October 19, 2016; measurements are summarized in Table 2. A review of these data indicates that the groundwater recovery systems (both On-Site and Off-Site) are performing as designed and continue to exhibit control over the migration of impacted groundwater.

Extraction Well EW-5 remains off line with the permission of the NYSDEC as discussed earlier. Existing gauging and analytical data indicate that the reconfigured extraction system (EW-2, EW-3, and EW-4) is capable of exhibiting control over the plume in this area as shown on Figure 4.

5.2 Laboratory Data

CB&I personnel reviewed the 2016 groundwater monitoring event data by comparing the detected analyte concentrations with all available historical data. Additionally, Data Validation Services evaluated the quality of analytical data and found it to be usable. The results of the October 2016 monitoring event show similar variances in analyte concentrations detected during previous sampling events at the site for both monitoring and extraction wells. Groundwater measurements collected in October 2016 showed the water table to be lower than during previous sampling events, likely due to recent drought conditions. Eleven of the 25 sampled locations showed decreases in TVOC concentrations.

Appendix H presents the historical trends for TCE, cis-1,2-dichloroethene, vinyl chloride, and methylene chloride concentrations in selected Zone 1 and Zone 3 monitoring wells. As shown, these compounds demonstrate decreasing trends over time in all of these locations. The concentrations of TCE in these monitoring wells generally show the largest decrease in concentration over time. Monitoring Well 87-17(1), located upgradient of the former Neutralization Pond, has been shown to have been influenced by off-site activities.

5.3 Off-Site and On-Site System Performance

The Off-Site System has maintained control of the dissolved phase plume. The gradient and size of the capture zone is consistent with the conditions observed during previous monitoring events. The performance of the Off-Site System is acceptable based upon comparison with historic operational data.

The hydraulic response of the On-Site System has met the following design expectations:

- Establishing a zone of groundwater capture over the former DNAPL plume
- Maintaining an upward hydraulic gradient between the Zone 3 and Zone 1 aquifers
- Maintaining a downward hydraulic gradient between the overburden and the Zone 1 aquifer
- Establishing a groundwater capture zone along the southern property boundary of the Textron facility between Extraction Wells EW-7, EW-13, and EW-8

The aquifers were able to maintain a gradient into Zone 1 from both the overburden and Zone 3 with the DNAPL extraction wells off line in April and on line in October.

5.4 Recommendations for Future Groundwater Monitoring and System Operations

The Off-Site System will continue to be monitored. Minor adjustments will be performed to maintain or increase the system's efficiency and productivity and to ensure that it continues to operate at optimal performance levels. Textron initiated the extended shutdown pilot test of Extraction Well EW-5 on September 5, 2013. Existing data indicate that this configuration has been successful in the attempt to induce the edge of the "plume" in a northerly direction. While the extent of the plume has remained stable in its new position, TVOC concentrations in Extraction Well EW-6 increased between the October 2015 and October 2016 sampling events. This slight increase is likely due to the depressed groundwater table at the time of this sampling event. Textron proposes to collect groundwater samples from Extraction Wells EW-2, EW-3, EW-4, EW-5, and EW-6 and Monitoring Well 93-03(1) in April 2017 in order to document the TVOC concentrations in these locations and monitor the system's ability to maintain control of the plume. The results of the groundwater sampling event and shutdown of Extraction Well EW-5 will be discussed with the NYSDEC upon receipt and evaluation of these data.

The On-Site System continues to be operational and monitored to maintain the pumping rates of the six extraction wells. Based on the graphs presented in Appendix H, the decreasing trends presented show that the overall capture of VOCs concentrations is declining and that the recovery system may be reaching asymptotic levels in its current configuration. During the last 2 years, approximately 300 pounds of VOCs have been removed from the aquifer while the treatment system has processed over 16 million gallons of groundwater. This mathematically works out to approximately 53,000 gallons of water for every pound of VOCs removed. Based on the objectives of NYSDEC's Division of Environmental Remediation–31 Green Remediation, the On-Site Treatment System is not the most efficient method of groundwater treatment as the energy consumed and the wastes generated outweigh the amount of VOCs removed. Textron would like to minimize the long-term environmental footprint of this project by exploring green remediation techniques (bioaugmentation and nutrient injection) in favor of continued operation of the pump and treat technology.

5.5 Bioaugmentation and Biodegradation

Bioremediation of chlorinated solvents using biologically mediated reductive dechlorination is a proven technology to reduce concentrations in the groundwater. CB&I has been designing and implementing successful bioremediation treatments for over 10 years. Many of these projects consist of adding a carbon source, nutrients, and CB&I's proven microbial culture SDC-9™. The carbon source provides a food source to many indigenous microbes that aid in creating reducing groundwater conditions that are favorable for reductive dechlorination. As the carbon is used as a food source, it also releases hydrogen which is essential to the microbes that break down chlorinated solvents. To ensure that the microbe that can completely break down TCE to ethene, *Dehalococcoides mccartyi* (DHC), the SDC-9™ culture, is co-injected along with the carbon source. Once favorable conditions are created in the groundwater and the required microbes are present, TCE is often reduced to below the groundwater protection limit within first year of treatment. The breakdown products, cis-1,2-DCE and vinyl chloride, may be reduced in the same amount of time, but it may take longer. This technology is typically conducted as a 2- to 5-year process, depending on site conditions.

As part of the effort to explore the viability of this site for alternate remedial strategies, additional groundwater samples were collected from selected monitoring wells (Monitoring Wells 87-02(1), 87-02(3), 87-05(1) 87-13(1) and 87-13(3)) in April 2016. These groundwater samples were analyzed for Monitored Natural Attenuation parameters and DHC. The results of this sampling are presented in Table 6. These analyses are indicators of the biodegradation process of TCE to ethane in the groundwater.

The results of the April 2016 sampling show that complete degradation of TCE to cis-1,2-DCE, vinyl chloride, and the final end product, ethane, is occurring naturally at the site; enhancing this process will aid in decreasing the time to reach groundwater protection standards and be a much more effective approach to reduce contaminant concentrations than the existing groundwater extraction system.

The naturally occurring levels of DHC indicate that viable cultures exist and the addition of SDC-9™ may not be required. Additional analyses for the specific genes that degrade vinyl chloride to ethene should be conducted to determine the need for biodegradation in each zone. The enhancement of this process through the injection of carbon, nutrients, and microbes will aid in rapidly removing contaminant mass at this site.

6.0 References

Golder Associates Inc., June 1991. "RCRA Facility Investigation, Neutralization Pond, Bell Aerospace Textron, Wheatfield Plant," Volumes I and II.

Shaw Environmental, Inc., April 2012. "Groundwater Monitoring Plan, Former Textron, Inc., Wheatfield, New York Facility."

Shaw Environmental, Inc., April 2012. "Quality Assurance Project Plan, Former Textron Inc., Wheatfield, New York Facility."

CB&I Environmental & Infrastructure, Inc., February 2015. "2014 Annual Summary and Site Maintenance and Monitoring Report," Former Textron Inc., Wheatfield, New York, Facility.

Tables

Table 1
Groundwater Monitoring Points - On-Site and Off-Site
Effectiveness Monitoring Programs
Former Textron Inc.
Wheatfield, New York

WELL NUMBER	FREQUENCY		ANALYTICAL METHOD
	ANNUAL (A)	ANNUAL (B)	
OVERBURDEN MONITORING WELLS			
87-10(0)	X		8260
87-14(0)	X	X	8260
87-20(0)	X	X	8260
89-14(0)	X		8260
B-8	X		8260
TOTAL OVERBURDEN SAMPLES PER EVENT	5	2	
ZONE 1 MONITORING WELLS			
87-01(1)	X		8260
87-02(1)	X		8260
87-08(1)	X		8260
87-17(1)	X	X	8260
87-19(1)	X	X	8260
87-20(1)	X	X	8260
87-21(1)	X	X	8260
87-22(1)	X	X	8260
89-04(1)	X		8260
89-14(1)	X	X	8260
89-15(1)	X	X	8260
93-03(1)	X	X	8260
B-14(1)	X	X	8260
TOTAL ZONE 1 SAMPLES PER EVENT	13	9	
ZONE 3 MONITORING WELLS			
87-02(3)	X		8260
87-13(3)	X		8260
TOTAL ZONE 3 SAMPLES PER EVENT	2	0	
OFF-SITE EXTRACTION WELLS			
EW-2	X	X	8260
EW-3	X	X	8260
EW-4	X	X	8260
EW-5	X	X	8260
EW-6	X	X	8260
TOTAL OFF-SITE EXTRACTION WELL SAMPLES PER EVENT	5	5	
ON-SITE EXTRACTION WELLS			
EW-7	X	X	8260
EW-8	X	X	8260
DW-9	X	X	8260
DW-10	X	X	8260
DW-11	X	X	8260
DW-12	X	X	8260
EW-13	X	X	8260
TOTAL ON-SITE EXTRACTION WELL SAMPLES PER EVENT	7	7	
GRAND TOTAL SAMPLES PER EVENT	32	23	

(A) Annual sampling to be conducted in October of even-numbered years.
(B) Annual sampling to be conducted in October of odd-numbered years.

Table 2
Hydraulic Monitoring Data
2016 Annual Summary
Former Textron Inc.
Wheatfield, New York

Well Name	Top of Riser Elevation (Ft. MSL)	April 27, 2016		October 19, 2016	
		Water Level (Ft. BTOR)	Water Level Elevation (Ft. MSL)	Water Level (Ft. BTOR)	Water Level Elevation (Ft. MSL)
87-01(0)	588.10	13.94	574.16	16.20	571.90
87-01(1)	587.99	16.12	571.87	20.15	567.84
87-02(1)	589.21	15.50	573.71	19.47	569.74
87-02(3)	588.63	12.52	576.11	15.24	573.39
87-04(0)	589.32	8.75	580.57	DRY	NA
87-04(1)	589.08	13.81	575.27	16.62	572.46
87-04(3)	589.49	12.12	577.37	14.77	574.72
87-05(1)	589.37	12.98	576.39	16.30	573.07
87-05(3)	589.46	11.76	577.70	14.57	574.89
87-08(1)	589.48	13.04	576.44	16.37	573.11
87-10(0)	587.30	12.43	574.87	14.53	572.77
87-10(1)	587.52	14.36	573.16	18.56	568.96
87-12(1)	583.84	14.43	569.41	20.73	563.11
87-13(0)	589.77	7.66	582.11	11.44	578.33
87-13(1)	590.06	14.37	575.69	17.28	572.78
87-13(3)	589.91	12.41	577.50	14.81	575.10
87-14(0)	589.56	5.83	583.73	12.73	576.83
87-14(1)	589.06	13.05	576.01	16.29	572.77
87-14(3)	590.35	11.92	578.43	14.87	575.48
87-15(0)	590.70	10.82	579.88	14.68	576.02
87-15(1)	590.27	12.20	578.07	15.34	574.93
87-15(3)	589.87	11.30	578.57	14.19	575.68
87-16(3B)	590.51	12.34	578.17	15.10	575.41
87-17(0)	589.50	11.09	578.41	13.03	576.47
87-17(1)	589.62	11.45	578.17	14.24	575.38
87-18(0)	585.95	11.64	574.31	10.17	575.78
87-18(1)	586.02	17.62	568.40	22.98	563.04
87-19(1)	581.47	12.24	569.23	18.21	563.26
87-20(0)	578.77	4.44	574.33	8.06	570.71
87-20(1)	579.01	9.61	569.40	15.97	563.04
87-21(1)	577.33	8.15	569.18	14.44	562.89
87-22(1)	583.97	14.47	569.50	20.70	563.27

See notes at end of table.

Table 2
Hydraulic Monitoring Data
2016 Annual Summary
Former Textron Inc.
Wheatfield, New York

Well Name	Top of Riser Elevation (Ft. MSL)	April 27, 2016		October 19, 2016	
		Water Level (Ft. BTOR)	Water Level Elevation (Ft. MSL)	Water Level (Ft. BTOR)	Water Level Elevation (Ft. MSL)
89-04(1)	575.17	4.11	571.06	9.60	565.57
89-12(1)	586.62	13.89	572.73	18.41	568.21
89-14(0)	587.51	9.55	577.96	DRY	NA
89-14(1)	587.59	12.01	575.58	15.71	571.88
89-15(1)	588.76	15.05	573.71	18.50	570.26
93-03(1)	572.30	10.09	562.21	14.06	558.24
96-01(1)	585.18	15.75	569.43	20.75	564.43
B-8(0)	590.26	6.97	583.29	13.34	576.92
B-14(1)	589.54	14.34	575.20	17.67	571.87
EW-2	568.15	8.11	560.04	13.31	554.84
EW-3	569.56	16.39	553.17	16.61	552.95
EW-4	570.07	37.57	532.50	23.52	546.55
EW-5	569.47	14.31	555.16	12.93	556.54
EW-6	568.17	8.97	559.20	13.57	554.60
EW-7 (**)	580.96	17.40	563.56	18.90	562.06
EW-8 (**)	578.44	8.49	569.95	16.78	561.66
DW-9 (**)	581.30	5.12	576.18	8.21	573.09
DW-10 (**)	583.95	8.56	575.39	11.29	572.66
DW-11 (**)	583.05	6.41	576.64	9.87	573.18
DW-12 (**)	580.48	6.34	574.14	12.65	567.83
EW-13	579.84	14.14	565.70	18.77	561.07

Notes:

BTOR = Below top of riser (or measuring point).

MSL = Mean sea level.

(**) Water level elevation measured from top of vault grate.

DRY = No measurable quantity in well at time of measurement.

NG = Not gauged.

NA = Data not available.

Table 3A
Summary of Vertical Hydraulic Gradients
April 2016 Hydraulic Monitoring Event
Former Textron Inc.
Wheatfield, New York

Well Name	Top of Riser Elevation (ft MSL)	Water Level (ft BTOR)	Date Measured	Water Level Elevation (ft MSL)	Head Difference Zone 3 - Zone 1 (dH) (ft)	Thickness Zone 2 (dL) (ft)	Verticle Gradient (dH/dL)
87-02(1)	589.21	15.50	April 27, 2016	573.71	2.4	7.00	0.34
87-02(3)	588.63	12.52		576.11			
87-04(1)	589.08	13.81	April 27, 2016	575.27	2.1	7.00	0.30
87-04(3)	589.49	12.12		577.37			
87-05(1)	589.37	12.98	April 27, 2016	576.39	1.31	7.00	0.19
87-05(3)	589.46	11.76		577.70			
87-13(1)	590.06	14.37	April 27, 2016	575.69	1.81	7.00	0.26
87-13(3)	589.91	12.41		577.50			
87-14(1)	589.06	13.05	April 27, 2016	576.01	2.42	7.00	0.35
87-14(3)	590.35	11.92		578.43			
87-15(1)	590.27	12.20	April 27, 2016	578.07	0.5	7.00	0.07
87-15(3)	589.87	11.30		578.57			

Notes: Positive vertical gradients are upwards from Zone 3 to Zone 1.

DNAPL Extraction Wells DW-9, DW-10, DW-11, and DW-12 were off line with NYSDEC consent at the time of this event.

Table 3B
Summary of Vertical Hydraulic Gradients
October 2016 Hydraulic Monitoring Event
Former Textron Inc.
Wheatfield, New York

Well Name	Top of Riser Elevation (ft MSL)	Water Level (ft BTOR)	Date Measured	Water Level Elevation (ft MSL)	Head Difference Zone 3 - Zone 1 (dH) (ft)	Thickness Zone 2 (dL) (ft)	Verticle Gradient (dH/dL)
87-02(1)	589.21	19.47	October 19, 2016	569.74	3.65	7.00	0.52
87-02(3)	588.63	15.24		573.39			
87-04(1)	589.08	16.62	October 19, 2016	572.46	2.26	7.00	0.32
87-04(3)	589.49	14.77		574.72			
87-05(1)	589.37	16.30	October 19, 2016	573.07	1.82	7.00	0.26
87-05(3)	589.46	14.57		574.89			
87-13(1)	590.06	17.28	October 19, 2016	572.78	2.32	7.00	0.33
87-13(3)	589.91	14.81		575.10			
87-14(1)	589.06	16.29	October 19, 2016	572.77	2.71	7.00	0.39
87-14(3)	590.35	14.87		575.48			
87-15(1)	590.27	15.34	October 19, 2016	574.93	0.75	7.00	0.11
87-15(3)	589.87	14.19		575.68			

Note: Positive vertical gradients are upwards from Zone 3 to Zone 1.

Table 4
Summary of Field Sampling Measurements and Observations
October 2016 Annual Monitoring Event
Former Textron Inc.
Wheatfield, New York

Sample ID	Sample Location	Date Sampled	Depth to Groundwater (BTOR)	Volume Purged (gallons)	pH Measurements		Specific Conductance Measurements (ms/cm)		Temperature (°C)		Purge and Sample Device		Remarks
					Purge	Sample	Purge	Sample	Purge	Sample	Purge	Sample	
BAT-87-01(1)-161019	87-01(1)	10/19/2016	20.15	8	7.67	7.36	1.459	1.448	13.19	12.93	1	1	Slighty brown turbid to v slightly gray turbid
BAT-87-02(1)-161019	87-02(1)	10/19/2016	19.47	7	7.48	7.41	1.654	1.660	11.16	11.34	4	4	Slight H_2S odor
BAT-87-02(3)-151021	87-02(3)	10/19/2016	15.24	15	7.87	7.76	4.305	4.386	11.38	10.06	1	1	Very slightly turbid gray; slight H_2S odor
BAT-87-08(1)-161020	87-08(1)	10/20/2016	16.37	8	8.14	7.47	0.890	1.003	8.58	8.44	1	1	Clear; MS/MSD
BAT-87-10(0)-161020	87-10(0)	10/20/2016	14.53	3	7.24	7.31	1.391	0.902	15.94	16.36	1	1	Very turbid, reddish brown
BAT-87-13(3)-151022	87-13(3)	10/20/2016	14.81	10	7.26	7.11	2.336	2.357	10.52	9.11	1	1	Slight H_2S odor
BAT-87-14(0)-151022	87-14(0)	10/20/2016	12.73	0.6	7.57	7.50	1.247	1.209	9.60	9.57	1	1	Very to slightly turbid, reddish brown; BAT-DUP-2
BAT-87-17(1)-151022	87-17(1)	10/20/2016	14.24	9	7.45	7.23	1.904	2.443	11.29	10.23	1	1	Very to slightly turbid, gray, slight H_2S odor
BAT-87-19(1)-151021	87-19(1)	10/20/2016	18.21	9	7.68	7.38	2.381	2.881	10.58	10.12	1	1	Clear
BAT-87-20(0)-151022	87-20(0)	10/19/2016	8.06	1.2	7.22	-	0.799	-	12.21	-	4	4	Clear; poor recharge
BAT-87-20(1)-151021	87-20(1)	10/19/2016	15.97	8.5	7.47	7.23	2.333	2.408	10.66	10.30	1	1	Clear
BAT-87-21(1)-151021	87-21(1)	10/19/2016	14.44	8	7.68	7.33	1.523	1.602	10.70	10.63	1	1	Very slightly turbid brown
BAT-87-22(1)-151021	87-22(1)	10/19/2016	20.70	6	7.42	7.10	2.026	2.248	8.74	8.42	1	1	Clear; BAT-DUP-1
BAT-89-04(1)-161019	89-04(1)	10/19/2016	9.60	9	7.40	6.99	1.069	2.808	10.41	9.16	4	4	Slight turbid brown w/ sediment
BAT-89-14(0)-161019	89-14(0)	10/19/2016	DRY	NA	-	-	-	-	-	-	-	-	Insufficient volume to measure or sample
BAT-89-14(1)-151021	89-14(1)	10/19/2016	15.71	8	7.43	7.06	1.998	3.050	10.64	10.05	1	1	Very to slightly turbid, black specks
BAT-89-15(1)-151022	89-15(1)	10/20/2016	18.50	7.5	7.32	7.02	1.721	2.410	10.91	10.23	1	1	Clear w/ black flecks, v slight sheen
BAT-93-03(1)-151021	93-03(1)	10/19/2016	14.06	14	6.76	6.87	2.711	2.742	8.39	7.98	4	4	Clear, slight H_2S odor
BAT-8(0)-161020	B-8(0)	10/20/2016	13.34	1.5	7.62	-	0.700	-	9.35	-	1	1	Very turbid, reddish brown, poor recharge
BAT-B-14(1)-151022	B-14(1)	10/20/2016	17.67	5	7.48	7.30	2.287	2.273	9.97	9.92	1	1	Clear, H_2S odor

See notes at end of table.

Table 4
Summary of Field Sampling Measurements and Observations
October 2016 Annual Monitoring Event
Former Textron Inc.
Wheatfield, New York

Sample ID	Sample Location	Date Sampled	Depth to Groundwater (BTOR)	Volume Purged (gallons)	pH Measurements		Specific Conductance Measurements (ms)		Temperature (°C)		Purge and Sample Device		Remarks
					Purge	Sample	Purge	Sample	Purge	Sample	Purge	Sample	
BAT-DW-9-151022	DW-9	10/20/2016	8.21	4	7.72	7.75	0.613	0.613	9.73	9.74	4	4	Clear
BAT-DW-10-151022	DW-10	10/20/2016	11.29	3	7.37	7.32	1.202	1.203	10.76	10.75	2	2	Clear
BAT-DW-11-151022	DW-11	10/20/2016	9.87	3	7.21	7.12	2.485	2.490	11.37	11.32	2	2	Light grayish
BAT-DW-12-151022	DW-12	10/19/2016	12.65	2	7.42	7.38	1.417	1.418	12.30	12.33	2	2	Clear
BAT-EW-2-151021	EW-2	10/19/2016	13.31	3	7.73	7.29	1.783	1.782	8.97	8.62	2	2	Clear; MS/MSD
BAT-EW-3-151021	EW-3	10/19/2016	16.61	3	7.33	7.22	1.453	1.492	8.71	8.75	2	2	Clear
BAT-EW-4-151021	EW-4	10/19/2016	23.52	3	7.36	7.24	1.130	1.123	9.37	9.44	2	2	Clear; slight H_2S odor
BAT-EW-5-151021	EW-5	10/19/2016	12.93	3	4.11	3.70	2.355	2.358	9.54	9.56	2	2	Slightly turbid, brown; pH meter results questionable
BAT-EW-6-151021	EW-6	10/19/2016	13.57	2	6.01	6.43	1.855	1.840	9.45	9.17	4	4	Very slighty turbid, brown
BAT-EW-7-151021	EW-7	10/19/2016	18.90	0.2	7.61	7.43	1.848	1.542	14.70	14.24	2	2	Clear
BAT-EW-8-151021	EW-8	10/19/2016	16.78	1.5	7.55	7.46	1.440	1.441	13.19	13.27	2	2	Clear
BAT-EW-13-151021	EW-13	10/19/2016	18.77	-	-	-	-	-	-	-	-	4	Clear; insufficient volume of water above pump

Notes:

BTOR - Below top of riser.

pH recorded in standard units.

ms/cm - microsiemens per centimeter.

'-' = Data not collected.

NA = Not applicable.

(1) - Stainless steel bailer.

(2) - Dedicated polyethylene tubing from sample port.

(3) - Whale pump with ET tubing.

(4) - Dedicated polyethylene bailer.

(5) - Grundfos submersible pump.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	87-01(1)	87-02(1)	87-02(3)	87-08(1)
SAMPLE I.D.	BAT-87-01(1)-161019	BAT-87-02(1)-161020	BAT-87-02(3)-161020	BAT-87-08(1)-161020
SAMPLE DATE	10/19/2016	10/20/2016	10/20/2016	10/20/2016
VOCs by USEPA Method 8260				
Chloromethane	5.0 U	50 U	1.0 U	1.0 U
Vinyl chloride	96	330	1.0 U	72
Chloroethane	5.0 U	50 U	1.0 U	1.0 U
Bromomethane	5.0 U	50 U	1.0 U	1.0 U
1,1-Dichloroethene	5.0 U	50 U	1.0 U	1.9
Acetone	7.5 J	250 U	5.0 U	5.0 U
Carbon disulfide	5.0 U	50 U	1.3	0.23 J
Methylene chloride	5.0 U	220	1.0 U	1.0 U
trans-1,2-Dichloroethene	6.3	50 U	1.0 U	1.6
1,1-Dichloroethane	8.4	26 J	1.0 U	1.7
cis-1,2-Dichloroethene	640	5,100	1.0 U	300 D
2-Butanone	25 U	250 U	5.0 U	5.0 U
Chloroform	2.1 J	50 U	1.0 U	1.0 U
1,1,1-Trichloroethane	13	73	1.0 U	0.77 J
Carbon tetrachloride	5.0 U	50 U	1.0 U	1.0 U
Benzene	5.0 U	50 U	1.0 U	1.0 U
1,2-Dichloroethane	5.0 U	50 U	1.0 U	1.0 U
Trichloroethene	120	3,900	1.0 U	3.5
1,2-Dichloropropane	5.0 U	50 U	1.0 U	1.0 U
Bromodichloromethane	5.0 U	50 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	5.0 U	50 U	1.0 U	1.0 U
4-Methyl-2-pentanone	25 U	250 U	5.0 U	5.0 U
Toluene	5.0 U	50 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5.0 U	50 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5.0 U	50 U	1.0 U	1.0 U
Tetrachloroethene	5.0 U	50 U	1.0 U	1.0 U
2-Hexanone	25 U	250 U	5.0 U	5.0 U
Dibromochloromethane	5.0 U	50 U	1.0 U	1.0 U
Chlorobenzene	5.0 U	50 U	1.0 U	1.0 U
Ethylbenzene	5.0 U	50 U	1.0 U	1.0 U
m/p-Xylenes	10 U	100 U	2.0 U	2.0 U
o-Xylene	5.0 U	50 U	1.0 U	1.0 U
Styrene	5.0 U	50 U	1.0 U	1.0 U
Bromoform	5.0 U	50 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5.0 U	50 U	1.0 U	1.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	87-08(1)		87-08(1)		87-10(0)	87-13(3)
SAMPLE I.D.	BAT-87-08(1)-161020MS		BAT-87-20(1)-1610201MSD		BAT-87-10(0)-161020	BAT-87-13(3)-161020
SAMPLE DATE	10/20/2016		10/20/2016		10/20/2016	10/20/2016
VOCs by USEPA Method 8260	Matrix Spike		Matrix Spike Duplicate			
	% Rec.	QC Lim	% Rec.	QC Lim		
Chloromethane	*86*	*55-160*	*91*	*55-160*	1.0 U	500 U
Vinyl chloride	*92*	*60-157*	*101*	*60-157*	1.0 U	610
Chloroethane	*110*	*70-140*	*116*	*70-140*	1.0 U	500 U
Bromomethane	*54*	*10-162*	*59*	*10-162*	1.0 U	500 U
1,1-Dichloroethene	*106*	*74-139*	*111*	*74-139*	1.0 U	500 U
Acetone	*97*	*29-151*	*109*	*29-151*	5.0 U	2500 U
Carbon disulfide	*99*	*34-162*	*109*	*34-162*	0.27 J	710
Methylene chloride	*92*	*75-121*	*94*	*75-121*	1.0 U	500 U
trans-1,2-Dichloroethene	*98*	*77-125*	*105*	*77-125*	1.0 U	390 J
1,1-Dichloroethane	*110*	*74-132*	*115*	*74-132*	1.8	500 U
cis-1,2-Dichloroethene	*86*	*72-133*	*98*	*72-133*	4.7	57,000
2-Butanone	*95*	*46-141*	*108*	*46-141*	5.0 U	2500 U
Chloroform	*101*	*75-130*	*108*	*75-130*	1.8	810
1,1,1-Trichloroethane	*109*	*74-127*	*122*	*74-127*	0.68 J	500 U
Carbon tetrachloride	*104*	*65-135*	*114*	*65-135*	1.0 U	500 U
Benzene	*96*	*76-129*	*103*	*76-129*	1.0 U	500 U
1,2-Dichloroethane	*107*	*68-130*	*114*	*68-130*	1.0 U	500 U
Trichloroethene	*99*	*62-142*	*103*	*62-142*	1.2	72,000
1,2-Dichloropropane	*101*	*79-124*	*107*	*79-124*	1.0 U	500 U
Bromodichloromethane	*104*	*76-127*	*113*	*76-127*	1.0 U	210 J
cis-1,3-Dichloropropene	*104*	*52-134*	*112*	*52-134*	1.0 U	500 U
4-Methyl-2-pentanone	*98*	*60-141*	*110*	*60-141*	5.0 U	2500 U
Toluene	*100*	*79-125*	*105*	*79-125*	1.0 U	500 U
trans-1,3-Dichloropropene	*106*	*50-142*	*114*	*50-142*	1.0 U	500 U
1,1,2-Trichloroethane	*96*	*79-119*	*104*	*79-119*	1.0 U	500 U
Tetrachloroethene	*92*	*67-137*	*99*	*67-137*	1.0 U	500 U
2-Hexanone	*90*	*56-132*	*103*	*56-132*	5.0 U	2500 U
Dibromochloromethane	*103*	*72-128*	*114*	*72-128*	1.0 U	500 U
Chlorobenzene	*93*	*76-125*	*100*	*76-125*	1.0 U	500 U
Ethylbenzene	*99*	*72-134*	*108*	*72-134*	1.0 U	500 U
m/p-Xylenes	*96*	*68-138*	*103*	*68-138*	2.0 U	1000 U
o-Xylene	*97*	*68-134*	*103*	*68-134*	1.0 U	500 U
Styrene	*98*	*34-156*	*104*	*34-156*	1.0 U	500 U
Bromoform	*96*	*58-133*	*110*	*58-133*	1.0 U	500 U
1,1,2,2-Tetrachloroethane	*94*	*72-122*	*106*	*72-122*	1.0 U	500 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	87-14(0)	87-14(0)	87-17(1)	87-19(1)
SAMPLE I.D.	BAT-87-14(0)-161020	BAT-DUP-2-161020	BAT-87-17(1)-161020	BAT-87-19(1)-161019
SAMPLE DATE	10/20/2016	10/20/2016	10/20/2016	10/19/2016
VOCs by USEPA Method 8260				
Chloromethane	1.0 U	0.35 J	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	150	1.7
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	1.0 U	1.0 U	0.91 J	1.0 U
Acetone	1.9 J	2.3 J	1.4 J	5.0 U
Carbon disulfide	1.0 U	1.0 U	1.5	1.0 U
Methylene chloride	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	0.34 J	0.37 J	2.5	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	21	1.0 U
cis-1,2-Dichloroethene	0.91 J	1.1	130	5.8
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.53 J	0.57 J	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	89	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 UJ
Benzene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	120	120	18	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	87-20(0)	87-20(1)	87-21(1)	87-22(1)
SAMPLE I.D.	BAT-87-20(0)-161019	BAT-87-20(1)-161019	BAT-87-21(1)-161019	BAT-87-22(1)-161019
SAMPLE DATE	10/19/2016	10/19/2016	10/19/2016	10/19/2016
VOCs by USEPA Method 8260				
Chloromethane	1.0 U	50 U	2.0 U	5.0 U
Vinyl chloride	1.0 U	830	77	430
Chloroethane	1.0 U	50 U	2.0 U	5.0 U
Bromomethane	1.0 UJ	50 U	2.0 U	5.0 UJ
1,1-Dichloroethene	1.0 U	50 U	2.0 U	4.9 J
Acetone	1.4 J	250 U	2.7 J	6.4 J
Carbon disulfide	1.0 U	50 U	2.0 U	5.0 U
Methylene chloride	1.0 U	50 U	2.0 U	5.00 U
trans-1,2-Dichloroethene	1.0 U	50 U	6.7	7.3
1,1-Dichloroethane	1.0 U	18 J	3.1	5.4 J+
cis-1,2-Dichloroethene	1.0 U	4,700	460 D	1,200 D
2-Butanone	5.0 U	250 U	10 U	25 U
Chloroform	1.0 U	18 J	0.62 J	1.3 J
1,1,1-Trichloroethane	1.0 U	22 J	3.5	5.0 U
Carbon tetrachloride	1.0 UJ	50 U	2.0 U	5.0 UJ
Benzene	1.0 U	50 U	2.0 U	5.0 U
1,2-Dichloroethane	1.0 U	50 U	2.0 U	5.0 U
Trichloroethene	1.0 U	19 J	5.4	5.0 J
1,2-Dichloropropane	1.0 U	50 U	2.0 U	5.0 U
Bromodichloromethane	1.0 U	50 U	2.0 U	5.0 U
cis-1,3-Dichloropropene	1.0 U	50 U	2.0 U	5.0 U
4-Methyl-2-pentanone	5.0 U	250 U	10 U	25 U
Toluene	1.0 U	50 U	2.0 U	5.0 U
trans-1,3-Dichloropropene	1.0 U	50 U	2.0 U	5.0 U
1,1,2-Trichloroethane	1.0 U	50 U	2.0 U	5.0 U
Tetrachloroethene	1.0 U	50 U	2.0 U	5.0 U
2-Hexanone	5.0 U	250 U	10 U	25 U
Dibromochloromethane	1.0 U	50 U	2.0 U	5.0 U
Chlorobenzene	1.0 U	50 U	2.0 U	5.0 U
Ethylbenzene	1.0 U	50 U	2.0 U	5.0 U
m/p-Xylenes	2.0 U	100 U	4.0 U	10 U
o-Xylene	1.0 U	50 U	2.0 U	5.0 U
Styrene	1.0 U	50 U	2.0 U	5.0 U
Bromoform	1.0 U	50 U	2.0 U	5.0 U
1,1,2,2-Tetrachloroethane	1.0 U	50 U	2.0 U	5.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	87-22(1)	89-04(1)	89-14(0)	89-14(1)
SAMPLE I.D.	BAT-DUP-1-161019	BAT-89-04(1)-161019		BAT-89-14(1)-161019
SAMPLE DATE	10/19/2016	10/19/2016	10/19/2016	10/19/2016
VOCs by USEPA Method 8260				
Chloromethane	2.0 U	1.0 U	NS	2.0 U
Vinyl chloride	320	0.40 J	NS	250
Chloroethane	2.0 U	1.0 U	NS	2.0 U
Bromomethane	2.0 U	1.0 UJ	NS	2.0 U
1,1-Dichloroethene	3.0	1.0 U	NS	2.0 U
Acetone	2.0 U	1.9 J	NS	3.9 J
Carbon disulfide	2.0 U	11	NS	0.80 J
Methylene chloride	2.0 U	1.0 U	NS	2.0 U
trans-1,2-Dichloroethene	6.4	0.41 J	NS	2.3
1,1-Dichloroethane	4.9	1.0 U	NS	20
cis-1,2-Dichloroethene	1,600 D	2.1	NS	130
2-Butanone	10 U	5.0 U	NS	10 U
Chloroform	2.0 U	1.0 U	NS	2.0 U
1,1,1-Trichloroethane	0.96 J	1.0 U	NS	2.0 J
Carbon tetrachloride	2.0 U	1.0 UJ	NS	2.0 U
Benzene	2.0 U	1.0 U	NS	2.0 U
1,2-Dichloroethane	2.0 U	1.0 U	NS	2.0 U
Trichloroethene	3.6	1.4	NS	1.7 J
1,2-Dichloropropane	2.0 U	1.0 U	NS	2.0 U
Bromodichloromethane	2.0 U	1.0 U	NS	2.0 U
cis-1,3-Dichloropropene	2.0 U	1.0 U	NS	2.0 U
4-Methyl-2-pentanone	10 U	5.0 U	NS	10 U
Toluene	2.0 U	1.0 U	NS	2.0 U
trans-1,3-Dichloropropene	2.0 U	1.0 U	NS	2.0 U
1,1,2-Trichloroethane	2.0 U	1.0 U	NS	2.0 U
Tetrachloroethene	2.0 U	1.0 U	NS	2.0 U
2-Hexanone	10 U	5.0 U	NS	10 U
Dibromochloromethane	2.0 U	1.0 U	NS	2.0 U
Chlorobenzene	2.0 U	1.0 U	NS	2.0 U
Ethylbenzene	2.0 U	1.0 U	NS	2.0 U
m/p-Xylenes	4.0 U	2.0 U	NS	4.0 U
o-Xylene	2.0 U	1.0 U	NS	2.0 U
Styrene	2.0 U	1.0 U	NS	2.0 U
Bromoform	2.0 U	1.0 U	NS	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	1.0 U	NS	2.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	89-15(1)	93-03(1)	B-8(0)	B-14(1)
SAMPLE I.D.	BAT-89-15(1)-161020	BAT-93-03(1)-161019	BAT-B-8-(0)-161020	BAT-B-14(1)-161020
SAMPLE DATE	10/20/2016	10/19/2016	10/20/2016	10/20/2016
VOCs by USEPA Method 8260				
Chloromethane	250 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	390	1.0 U	1.0 U	180
Chloroethane	250 U	1.0 U	1.0 U	1.0 U
Bromomethane	250 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	250 U	1.0 U	1.0 U	1.3
Acetone	1300 U	5.0 U	5.0 U	1.6 J
Carbon disulfide	110 J	0.23 J	1.0 U	0.71 J
Methylene chloride	110,000 D	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	250 U	1.0 U	1.0 U	1.8
1,1-Dichloroethane	250 U	1.0 U	1.0 U	20
cis-1,2-Dichloroethene	17,000	0.90 J+	1.0 U	170
2-Butanone	1300 U	5.0 U	5.0 U	5.0 U
Chloroform	410	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	230 J	1.0 U	1.0 U	81
Carbon tetrachloride	250 U	1.0 U	1.0 U	1.0 U
Benzene	250 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	250 U	1.0 U	1.0 U	1.0 U
Trichloroethene	140,000 D	1.0 U	1.0 U	1.8
1,2-Dichloropropane	250 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	130 J	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	250 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	1300 U	5.0 U	5.0 U	5.0 U
Toluene	250 U	1.0 U	0.32 J	1.0 U
trans-1,3-Dichloropropene	250 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	250 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	250 U	1.0 U	1.0 U	1.0 U
2-Hexanone	1300 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	250 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	250 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	250 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	500 U	2.0 U	2.0 U	2.0 U
o-Xylene	250 U	1.0 U	1.0 U	1.0 U
Styrene	250 U	1.0 U	1.0 U	1.0 U
Bromoform	250 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	250 U	1.0 U	1.0 U	1.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	DW-9	DW-10	DW-11	DW-12
SAMPLE I.D.	BAT-DW-9-161020	BAT-DW-10-161020	BAT-DW-11-161020	BAT-DW-12-161019
SAMPLE DATE	10/20/2016	10/20/2016	10/20/2016	10/19/2016
VOCs by USEPA Method 8260				
Chloromethane	1.0 U	10 U	10 U	1.0 U
Vinyl chloride	2.5	110	450	180
Chloroethane	1.0 U	10 U	10 U	1.0 U
Bromomethane	1.0 U	10 U	10 U	1.0 UJ
1,1-Dichloroethene	12	5.9 J	10 U	5.2
Acetone	5.0 U	50 U	50 U	5.0 U
Carbon disulfide	1.0 U	10 U	3.4 J	0.9 J
Methylene chloride	1.0 U	2,300 D	10 U	1.0 U
trans-1,2-Dichloroethene	8.6	3.8 J	5.9 J	15
1,1-Dichloroethane	13	12	25	13
cis-1,2-Dichloroethene	1,100 D	960	1,500	1,700 D
2-Butanone	5.0 U	50 U	50 U	5.0 U
Chloroform	3.0	3.4 J	10 U	1.1
1,1,1-Trichloroethane	44	57	110	34
Carbon tetrachloride	1.0 U	10 U	10 U	1.0 UJ
Benzene	0.85 J	10 U	10 U	1.0 U
1,2-Dichloroethane	1.0 U	10 U	10 U	1.0 U
Trichloroethene	2,400 D	510	14	83
1,2-Dichloropropane	1.0 U	10 U	10 U	1.0 U
Bromodichloromethane	1.0 U	10 U	10 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	10 U	10 U	1.0 U
4-Methyl-2-pentanone	5.0 U	50 U	50 U	5.0 U
Toluene	1.0 U	10 U	10 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	10 U	10 U	1.0 U
1,1,2-Trichloroethane	1.0 U	10 U	10 U	1.0 U
Tetrachloroethene	1.0 U	10 U	10 U	1.0 U
2-Hexanone	5.0 U	50 U	50 U	5.0 U
Dibromochloromethane	1.0 U	10 U	10 U	1.0 U
Chlorobenzene	1.0 U	10 U	10 U	1.0 U
Ethylbenzene	1.0 U	10 U	10 U	1.0 U
m/p-Xylenes	2.0 U	20 U	20 U	2.0 U
o-Xylene	1.0 U	10 U	10 U	1.0 U
Styrene	1.0 U	10 U	10 U	1.0 U
Bromoform	1.0 U	10 U	10 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	10 U	10 U	1.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	EW-2	EW-2		EW-2		EW-3
SAMPLE I.D.	BAT-EW-2-161019	BAT-EW-2-161019MS		BAT-EW-2-161019MSD		BAT-EW-3-161019
SAMPLE DATE	10/19/2016	10/19/2016		10/19/2016		10/19/2016
VOCs by USEPA Method 8260		Matrix Spike		Matrix Spike Duplicate		
		% Rec.	QC Lim	% Rec.	QC Lim	
Chloromethane	1.0 U	*84*	*55-160*	*91*	*55-160*	10 U
Vinyl chloride	200	*85*	*60-157*	*104*	*60-157*	720
Chloroethane	1.0 U	*112*	*70-140*	*109*	*70-140*	10 U
Bromomethane	1.0 U	*44*	*10-162*	*43*	*10-162*	10 U
1,1-Dichloroethene	1.0 U	*104*	*74-139*	*110*	*74-139*	10 U
Acetone	5.0 U	*95*	*29-151*	*104*	*29-151*	50 U
Carbon disulfide	1.0 U	*100*	*34-162*	*115*	*34-162*	10 U
Methylene chloride	1.0 U	*90*	*75-121*	*97*	*75-121*	10 U
trans-1,2-Dichloroethene	2.9	*97*	*77-125*	*105*	*77-125*	10
1,1-Dichloroethane	13 J+	*105*	*74-132*	*109*	*74-132*	13
cis-1,2-Dichloroethene	250 D	*89*	*72-133*	*99*	*72-133*	1,600
2-Butanone	5.0 U	*99*	*46-141*	*109*	*46-141*	50 U
Chloroform	0.65 J	*96*	*75-130*	*104*	*75-130*	10 U
1,1,1-Trichloroethane	21	*103*	*74-127*	*113*	*74-127*	17
Carbon tetrachloride	1.0 U	*98*	*65-135*	*112*	*65-135*	10 U
Benzene	1.0 U	*98*	*76-129*	*101*	*76-129*	10 U
1,2-Dichloroethane	1.0 U	*106*	*68-130*	*109*	*68-130*	10 U
Trichloroethene	7.7	*97*	*62-142*	*103*	*62-142*	4.6 J
1,2-Dichloropropane	1.0 U	*105*	*79-124*	*104*	*79-124*	10 U
Bromodichloromethane	1.0 U	*104*	*76-127*	*111*	*76-127*	10 U
cis-1,3-Dichloropropene	1.0 U	*106*	*52-134*	*110*	*52-134*	10 U
4-Methyl-2-pentanone	5.0 U	*106*	*60-141*	*110*	*60-141*	50 U
Toluene	1.0 U	*99*	*79-125*	*103*	*79-125*	10 U
trans-1,3-Dichloropropene	1.0 U	*107*	*50-142*	*112*	*50-142*	10 U
1,1,2-Trichloroethane	1.0 U	*95*	*79-119*	*102*	*79-119*	10 U
Tetrachloroethene	1.0 U	*93*	*67-137*	*95*	*67-137*	10 U
2-Hexanone	5.0 U	*99*	*56-132*	*102*	*56-132*	50 U
Dibromochloromethane	1.0 U	*103*	*72-128*	*108*	*72-128*	10 U
Chlorobenzene	1.0 U	*93*	*76-125*	*96*	*76-125*	10 U
Ethylbenzene	1.0 U	*96*	*72-134*	*102*	*72-134*	10 U
m/p-Xylenes	2.0 U	*95*	*68-138*	*97*	*68-138*	20 U
o-Xylene	1.0 U	*96*	*68-134*	*97*	*68-134*	10 U
Styrene	1.0 U	*96*	*34-156*	*99*	*34-156*	10 U
Bromoform	1.0 U	*96*	*58-133*	*101*	*58-133*	10 U
1,1,2,2-Tetrachloroethane	1.0 U	*98*	*72-122*	*104*	*72-122*	10 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	EW-4	EW-5	EW-6	EW-7
SAMPLE I.D.	BAT-EW-4-161019	BAT-EW-5-161019	BAT-EW-6-161019	BAT-EW-7-161019
SAMPLE DATE	10/19/2016	10/19/2016	10/19/2016	10/19/2016
VOCs by USEPA Method 8260				
Chloromethane	1.0 U	1.0 U	1.0 U	5.0 U
Vinyl chloride	50	210 D	0.48 J	490
Chloroethane	1.0 U	1.0 U	1.0 U	5.0 U
Bromomethane	1.0 UJ	1.0 U	1.0 UJ	5.0 U
1,1-Dichloroethene	1.0 U	2.0	1.0 U	5.0 U
Acetone	5.0 U	5.8	5.0 U	25 U
Carbon disulfide	0.61 J	0.31 J	1.0 U	1.5 J
Methylene chloride	1.0 U	1.0 U	1.0 U	16
trans-1,2-Dichloroethene	1.9	4.1	1.6	4.0 J
1,1-Dichloroethane	1.6	10 J+	3.6	23
cis-1,2-Dichloroethene	39	530 D	69	690
2-Butanone	5.0 U	5.0 U	5.0 U	25 U
Chloroform	1.0 U	0.53 J	1.0 U	5.0 U
1,1,1-Trichloroethane	0.93 J	15	1.6	51
Carbon tetrachloride	1.0 UJ	1.0 U	1.0 UJ	5.0 U
Benzene	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	5.0 U
Trichloroethene	0.71 J	4.9	1.1	6.4
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	5.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	5.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	5.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	25 U
Toluene	1.0 U	1.0 U	1.0 U	5.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	5.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	5.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	25 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	5.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	5.0 U
m/p-Xylenes	2.0 U	2.0 U	2.0 U	10 U
o-Xylene	1.0 U	1.0 U	1.0 U	5.0 U
Styrene	1.0 U	1.0 U	1.0 U	5.0 U
Bromoform	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	5.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

SAMPLE LOCATION	EW-8	EW-13	FIELD BLANK 1	FIELD BLANK 2	TRIP BLANK
SAMPLE I.D.	BAT-EW-8-161019	BAT-EW-13-161019	BAT-FB-1-161019	BAT-FB-2-161020	Trip Blank
SAMPLE DATE	10/19/2016	10/19/2016	10/19/2016	10/20/2016	10/19/2016
VOCs by USEPA Method 8260					
Chloromethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	260	550	1.0 U	1.0 U	1.0 U
Chloroethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	3.2 J	3.2 J	1.0 U	1.0 U	1.0 U
Acetone	25 U	25 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	4.3 J	4.6 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	13	28	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	810	650	1.0 U	1.0 U	1.0 U
2-Butanone	25 U	25 U	5.0 U	5.0 U	5.0 U
Chloroform	2.8 J	2.4 J	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	26	66	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Benzene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.5	4.5 J	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	25 U	25 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	25 U	25 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	10 U	10 U	2.0 U	2.0 U	2.0 U
o-Xylene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Styrene	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Bromoform	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U

See notes at end of table.

Table 5
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, New York
October 2016

Notes:

U = Compound not detected at detection limit.

Bold = Compound detected at concentration.

J = Indicates an estimated value below detection limit.

D = Compound analyzed at secondary dilution.

NS = No sample collected; insufficient volume.

Red = Data qualified through validation.

UJ = Analyte was analzyed but not detected; associated reported quantitation limit is approximate and may be imprecise.

J+ = Analyte was positively identified; associated numerical value is an estimated quantity that may be biased high.

Table 6
Summary of Monitored Natural Attenutaion Parameters and Dechlorinating Bacteria
Former Textron Inc.
Wheatfield, New York
April 2016

Sample	Zone 1			Zone 3	
	87-02(1)	87-05(1)	87-13(1)	87-02(3)	87-13(3)
Date	4/28/2016	4/28/2016	4/28/2016	4/28/2016	4/28/2016
General Chemistry (mg/L)					
Alkalinity - Total as CaCO3	311	306	334	165	302
Biochemical Oxygen Demand	3.6	2.2	2.5	69.0	11.9
Total Organic Carbon	4.6	3.4	4.6	1.4	3.6
Chemical Oxygen Demand	9.7	8.1	52.7	96.5	47.6
Chloride	236	162	313	730	229
Nitrate as Nitrogen	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sulfate	996	1,150	1,030	1,740	1,320
Inorganic Parameters (µg/L)					
Iron - Total	190	120	8,200	1,420	< 100
Manganese - Total	176	101	51	25	34
Dissolved Gases (µg/L)					
Ethane	1.1	1.7	5.1	140	30
Ethene	13	16	120 D	< 10	25
Methane	45	67	140 D	1,000	140 D
Dechlorinating Bacteria (cells/mL)					
Dehalococcoides	1.10	55,800	30,800	2,860	79,400

Notes:

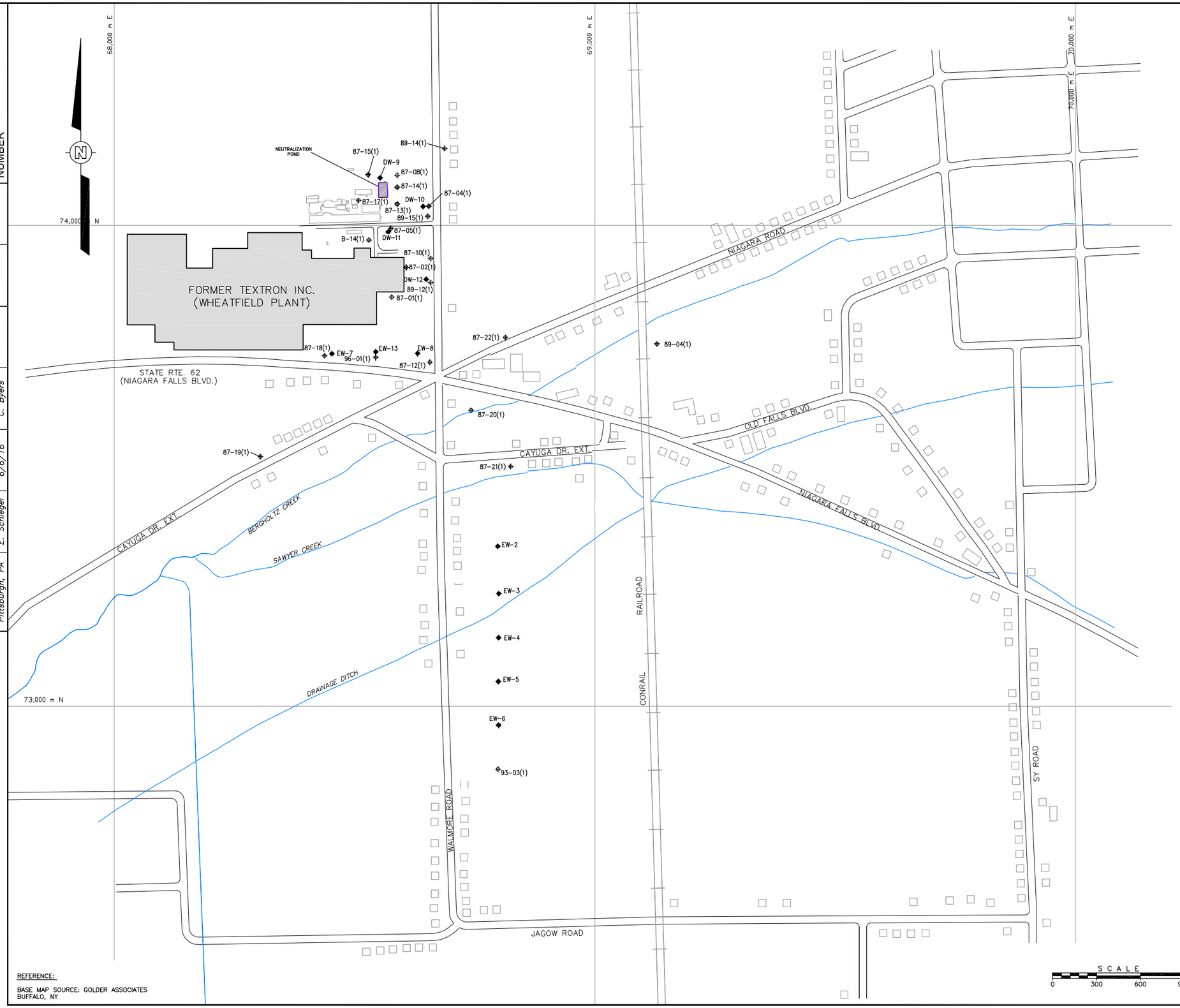
Bold = Compound detected at concentration.

U = Compound not detected at detection limit.

D = Compound was analyzed at secondary dilution.

Figures

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	OFFICE
156045-D2		C. Byers	E. Schlegel 6/6/16	Pittsburgh, PA



LEGEND:

- ◆ EXTRACTION WELL OR DNAPL WELL
- ⌖ MONITORING WELL OR PIEZOMETER

NOTES:

1. GRID SYSTEM SHOWN IS 1000-METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES
BUFFALO, NY

SCALE
0 300 600 900 FEET

CBI

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 1

GROUNDWATER MONITORING PLAN
SAMPLE LOCATIONS

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

File: O:\Shaw Offices - CAD Files\Latham, NY\156045\156045-D2.dwg
Plot Date/Time: Jan 16, 2017 - 11:49am
Plotted By: Evan.Schlegel

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	E. Schlegel 5/17/16	C. Byers		156045-D1

68,000 m E
69,000 m E
70,000 m E
74,000 m N
73,000 m N

APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO OCTOBER 2015 SAMPLING EVENT – SEE NOTE 7.)

FORMER TEXTRON INC. (WHEATFIELD PLANT)

87-08(1) (576.44)
87-13(1) (575.69)
DW-9 (576.18)
87-15(1) (578.07)
NEUTRALIZATION POND
87-17(1) (578.17)
87-05(1) (576.39)
DW-11 (576.64)
87-14(1) (576.01)
DW-10 (575.39)
89-14(1) (575.58)
87-04(1) (575.27)
89-15(1) (573.7)
87-10(1) (573.16)
DW-12 (574.14)
89-12(1) (572.73)
B-14(1) (575.20)
87-02(1) (573.71)
87-01(1) (571.87)
EW-7 (583.56)
EW-13 (565.70)
87-18(1) (568.40)
87-22(1) (569.50)
89-04(1) (571.06)
EW-8 (569.85)
96-01(1) (569.43)
87-12(1) (569.41)
87-20(1) (569.40)
87-19(1) (569.23)
87-21(1) (569.18)
EW-2 (560.04)
EW-3 (553.17)
EW-4 (532.50)
EW-5 (555.16)
EW-6 (559.20)
93-03(1) (562.21)

STATE RTE. 62 (NIAGARA FALLS BLVD.)
NIAGARA ROAD
OLD FALLS BLVD.
CAYUGA DR. EXT.
NIAGARA FALLS BLVD
BERGHOLTZ CREEK
SAWYER CREEK
DRAINAGE DITCH
WALMORE ROAD
RAILROAD
CONRAIL
SY ROAD
JAGOW ROAD

570 571 572 573 574 575 576 577 578 569 568 567 566 565 564 563 562 561 560 559 558 557 556 555 554

LEGEND:

- EXTRACTION WELL OR DNAPL WELL
- MONITORING WELL OR PIEZOMETER
- APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)
- 573 — POTENTOMETRIC ELEVATION CONTOUR IN FEET MEAN SEA LEVEL (DASHED WHERE INFERRED)
- (569.50) WATER LEVEL ELEVATIONS AT MONITORING OR EXTRACTION WELL IN FEET MEAN SEA LEVEL.
- DIRECTION OF GROUNDWATER FLOW IN ZONE 1

NOTES:

1. GRID SYSTEM SHOWN IS 1000-METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
4. WATER LEVEL MEASUREMENTS OBTAINED ON APRIL 27, 2016.
5. ONLY WELL LOCATIONS WITH AN ELEVATION LISTED ARE USED IN MAP CONTOURING.
6. CONTOURS BETWEEN KNOWN POINTS HAVE BEEN INTERPOLATED.
7. TOTAL VOLATILE ORGANIC (TVO) DETECTIONS/MINUS CARBON DISULFIDE.
8. DW SERIES EXTRACTION WELLS OFFLINE PER NYSDEC.

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES BUFFALO, NY

SCALE
0 300 600 900 FEET

CB&I

TEXTRON
NIAGARA FALLS, NEW YORK

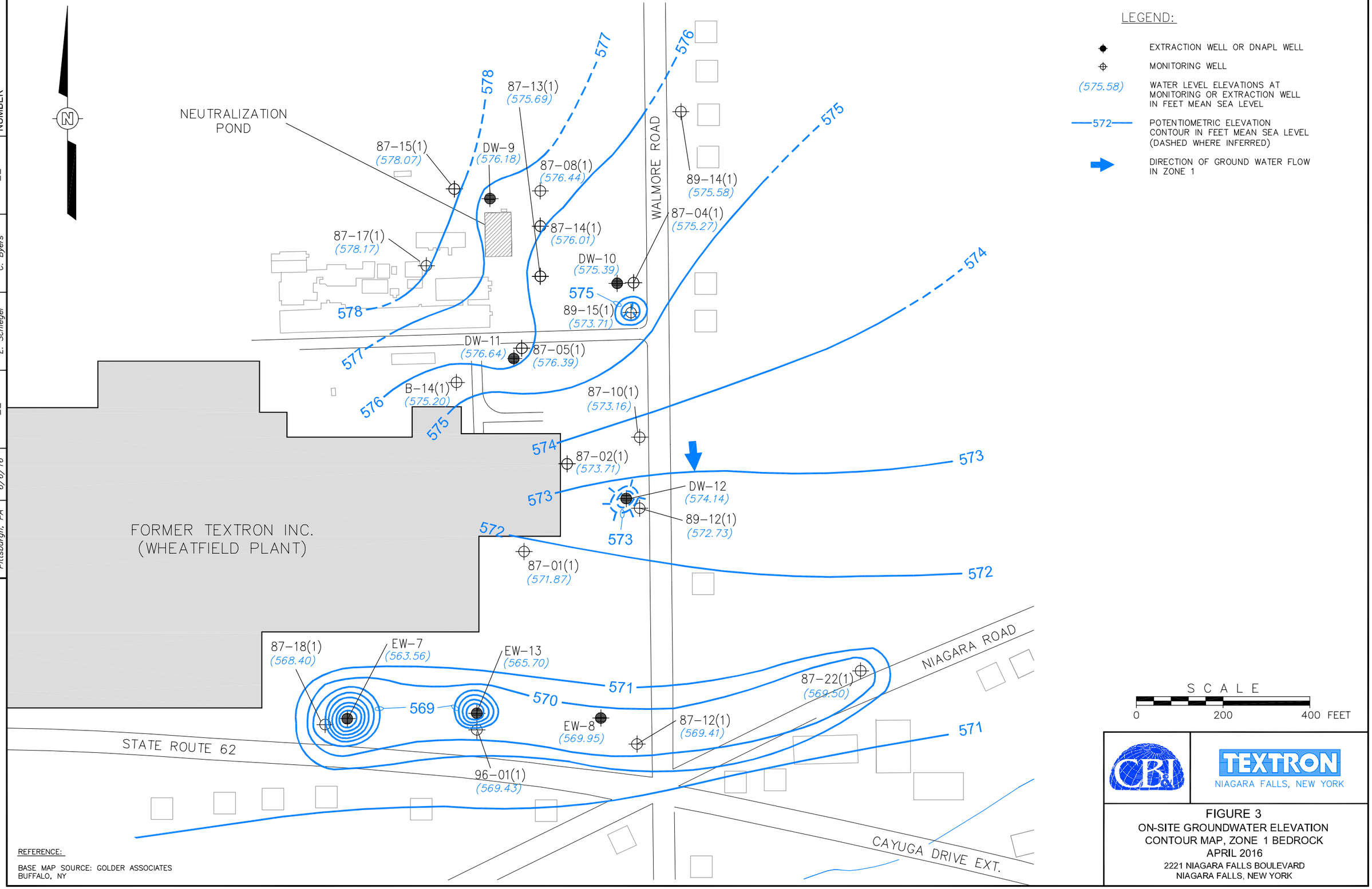
FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP ZONE 1 BEDROCK - APRIL 2016

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

File: O:\Shaw Offices - CAD Files\Latham, NY\156045\156045-D1.dwg
Plot Date/Time: Jan 16, 2017 - 10:33am
Plotted By: Evan.Schlegel

DRAWING NUMBER	156045-B1
APPROVED BY	--
CHECKED BY	C. Byers
DRAWN BY	E. Schlegel
DESIGNED BY	--
DATE	6/6/16
OFFICE	Pittsburgh, PA



REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES
BUFFALO, NY

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 3
ON-SITE GROUNDWATER ELEVATION
CONTOUR MAP, ZONE 1 BEDROCK
APRIL 2016
2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

File: O:\Shaw Offices - CAD Files\Latham, NY\156045\156045-B1.dwg
Plot Date/Time: Jan 04, 2017 - 9:59am
Plotted By: Evan.Schlegel
Image

DRAWING NUMBER 156045-D3

APPROVED BY

CHECKED BY C. Byers

DRAWN BY E. Schlegel 1/3/17

OFFICE Pittsburgh, PA

68,000 m E | 69,000 m E | 70,000 m E

74,000 m N | 73,000 m N

APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO OCTOBER 2016 SAMPLING EVENT – SEE NOTE 7.)

HORIZONTAL HYDRAULIC GRADIENT = 0.0 087 FT/FT

FORMER TEXTRON INC. (WHEATFIELD PLANT)

NEUTRALIZATION POND

87-08(1) (573.11)
87-13(1) (572.78)
DW-9 (573.09)
87-15(1) (574.93)
87-17(1) (575.38)
87-05(1) (573.07)
DW-11 (573.18)
87-14(1) (572.77)
DW-10 (572.66)
87-04(1) (572.46)
89-14(1) (571.88)
89-15(1) (570.26)
B-14(1) (571.87)
87-02(1) (569.74)
87-10(1) (568.96)
DW-12 (567.83)
89-12(1) (568.21)
EW-7 (562.06)
87-01(1) (567.84)
87-18(1) (563.04)
EW-13 (561.07)
87-22(1) (563.27)
89-04(1) (565.57)
EW-8 (561.66)
96-01(1) (564.43)
87-12(1) (563.11)
87-20(1) (563.04)
87-19(1) (563.26)
87-21(1) (562.89)
EW-2 (554.84)
EW-3 (552.95)
EW-5 (556.54)
EW-4 (546.55)
EW-6 (554.60)
93-03(1) (558.24)

573 574 572 571 570 569 568 567 566 565 564 563 562 561 560 559 558 557 556 555

STATE RTE. 62 (NIAGARA FALLS BLVD.)
NIAGARA ROAD
OLD FALLS BLVD.
NIAGARA FALLS BLVD
CAYUGA DR. EXT.
BERGHOLTZ CREEK
SAWYER CREEK
DRAINAGE DITCH
WALMORE ROAD
RAILROAD
CONRAIL
SY ROAD
JAGOW ROAD

LEGEND:

- EXTRACTION WELL OR DNAPL WELL
- MONITORING WELL OR PIEZOMETER
- APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)
- 573 — POTENTOMETRIC ELEVATION CONTOUR IN FEET MEAN SEA LEVEL (DASHED WHERE INFERRED)
- (568.96) WATER LEVEL ELEVATIONS AT MONITORING OR EXTRACTION WELL IN FEET MEAN SEA LEVEL.
- DIRECTION OF GROUNDWATER FLOW IN ZONE 1

NOTES:

1. GRID SYSTEM SHOWN IS 1000–METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
4. WATER LEVEL MEASUREMENTS OBTAINED ON OCTOBER 19, 2016.
5. ONLY WELL LOCATIONS WITH AN ELEVATION LISTED ARE USED IN MAP CONTOURING.
6. CONTOURS BETWEEN KNOWN POINTS HAVE BEEN INTERPOLATED.
7. TOTAL VOLATILE ORGANIC (TVO) DETECTIONS/MINUS CARBON DISULFIDE.
8. DW SERIES EXTRACTION WELLS OFFLINE PER NYSDEC.

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES BUFFALO, NY

SCALE 0 300 600 900 FEET

CB&I

TEXTRON NIAGARA FALLS, NEW YORK

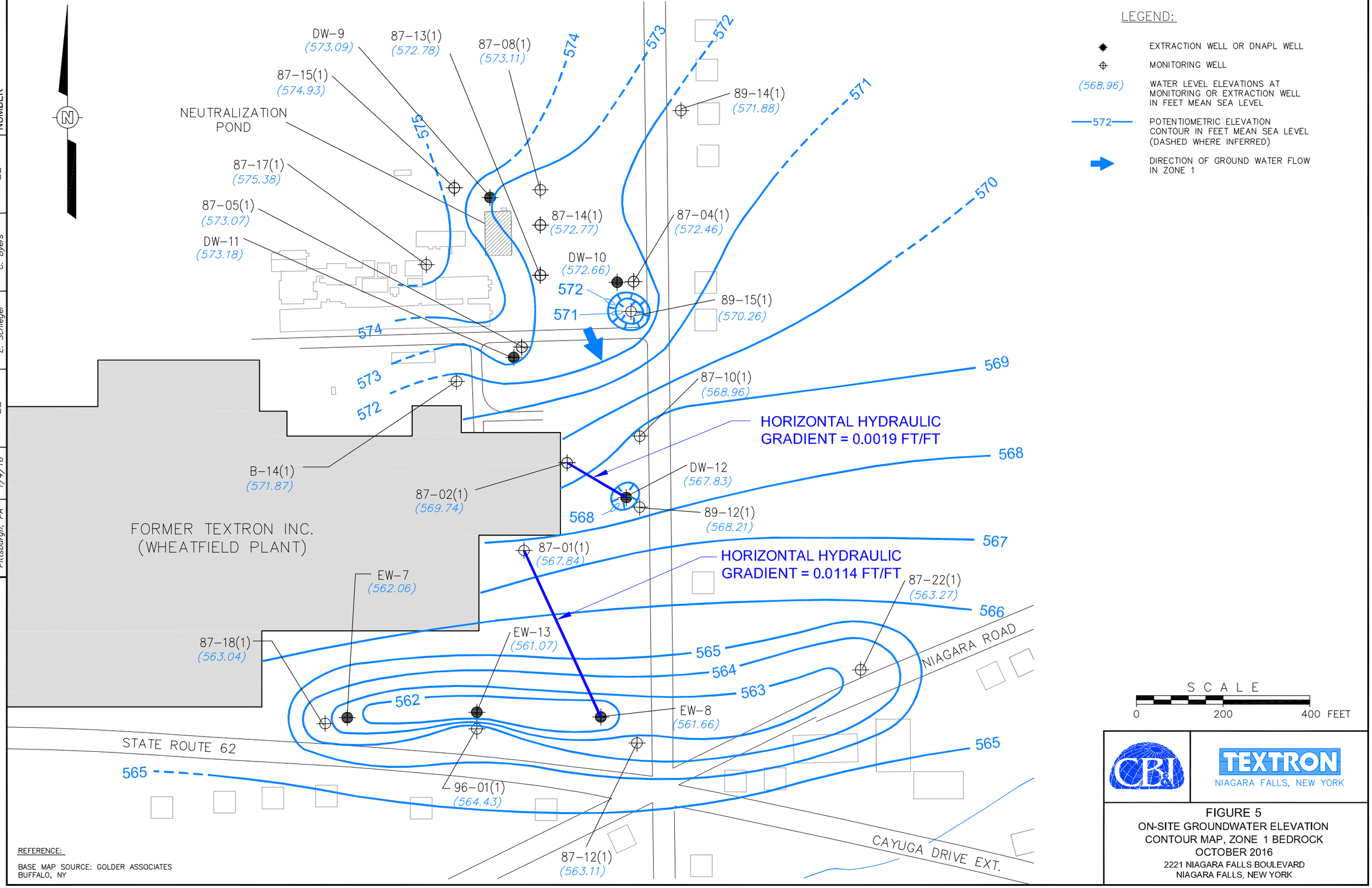
FIGURE 4

GROUNDWATER ELEVATION CONTOUR MAP ZONE 1 BEDROCK - OCTOBER 2016

2221 NIAGARA FALLS BOULEVARD NIAGARA FALLS, NEW YORK

File: O:\Shaw Offices - CAD Files\Latham, NY\156045\156045-D3.dwg
Plot Date/Time: Jan 16, 2017 - 9:46am
Plotted By: Evan.Schlegel

DRAWING NUMBER	156045-B2
APPROVED BY	--
CHECKED BY	C. Byers
DRAWN BY	E. Schlegel
DESIGNED BY	--
DATE	1/4/16
OFFICE	Pittsburgh, PA



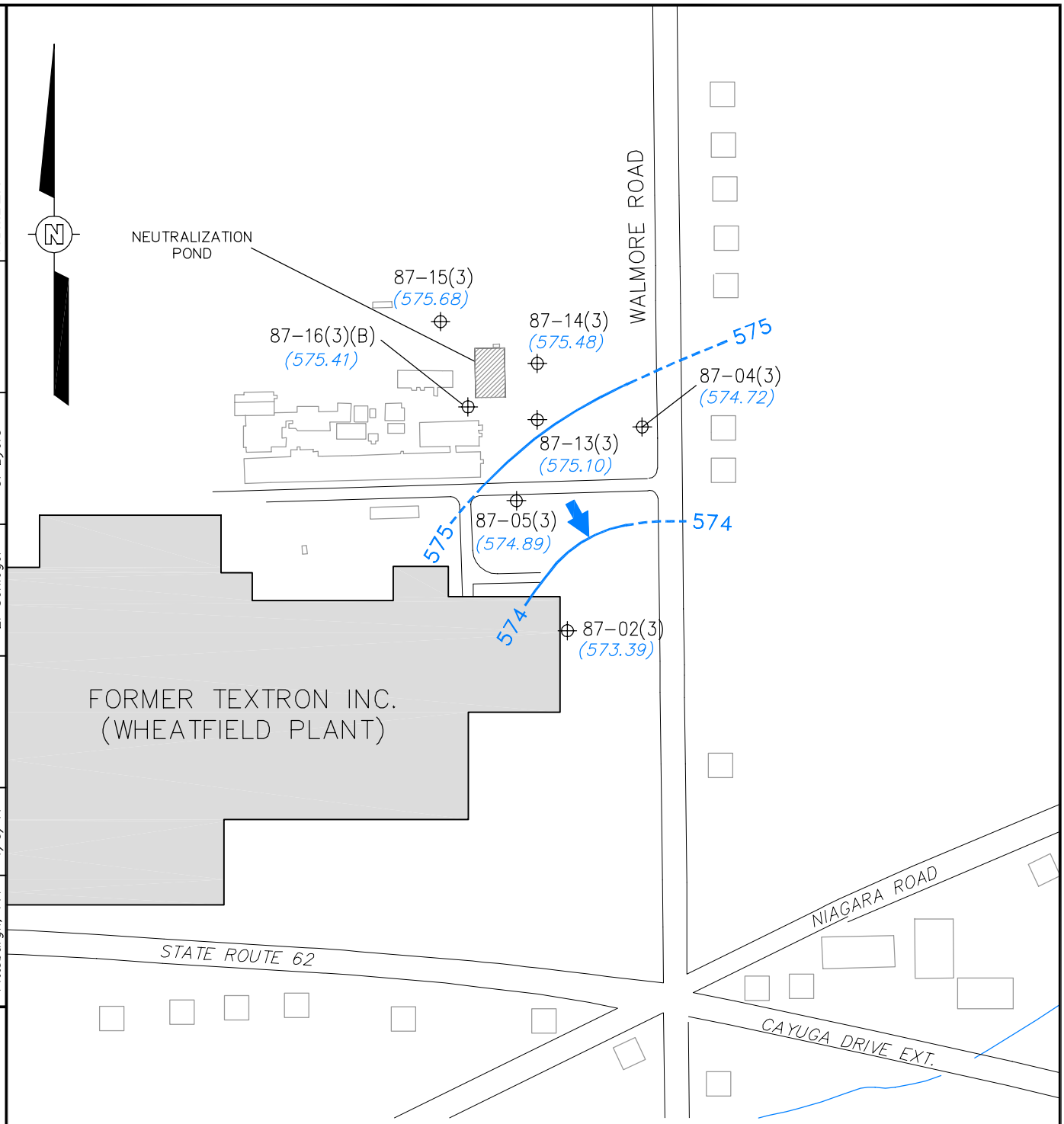
REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES BUFFALO, NY

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 5
ON-SITE GROUNDWATER ELEVATION CONTOUR MAP, ZONE 1 BEDROCK
OCTOBER 2016
2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

File: O:\Show Offices - CAD Files\Latham, NY\156045\156045-B2.dwg
Plot Date/Time: Jan 16, 2017 - 11:50am
Plotted By: Evan.Schlegel
Image



LEGEND:

- ⌖ — MONITORING WELL
- (573.39) — WATER LEVEL ELEVATIONS AT MONITORING WELL IN FEET MEAN SEA LEVEL
- 575 — POTENTIOMETRIC ELEVATION CONTOUR IN FEET MEAN SEA LEVEL (DASHED WHERE INFERRED)
- ➡ — DIRECTION OF GROUND WATER FLOW IN ZONE 3

SCALE

0 300 600 FEET

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES
BUFFALO, NY

CB&I

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 6
ON-SITE GROUNDWATER ELEVATION
CONTOUR MAP, ZONE 3 BEDROCK
OCTOBER 2016
2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	1/3/17	--	E. Schlegel	C. Byers	--	156045-A3

File: O:\Shaw Offices - CAD Files\Latham, NY\156045\156045-A3.dwg
Plot Date/Time: Jan 03, 2017 - 1:55pm
Plotted By: Evan.Schlegel
Xref:
Image

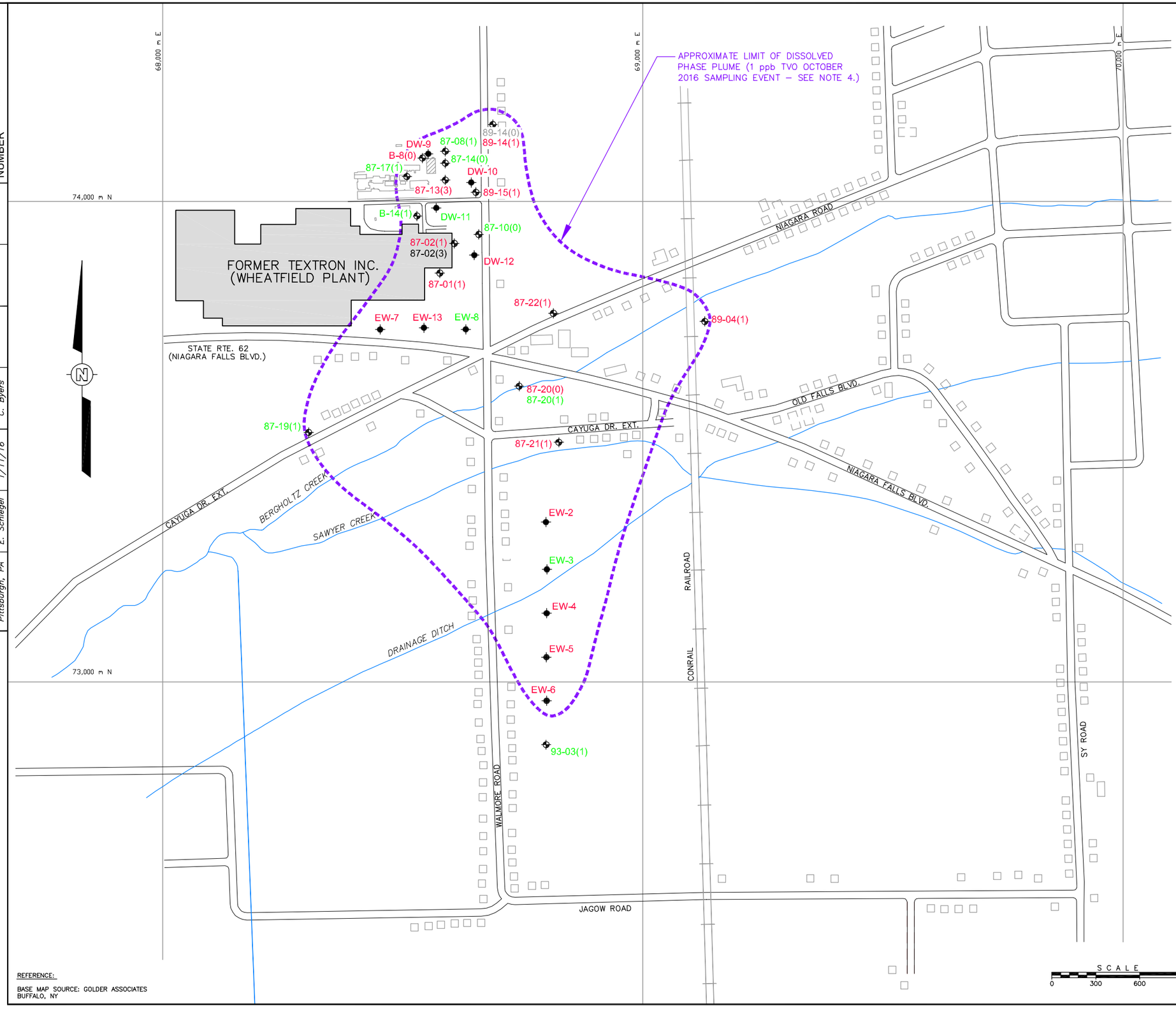
DRAWING NUMBER 156045-D4

APPROVED BY

CHECKED BY C. Byers

DRAWN BY E. Schlegel 1/11/16

OFFICE Pittsburgh, PA



LEGEND:

- EXTRACTION WELL OR DNAPL WELL
- MONITORING WELL OR PIEZOMETER
- APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)
- DW-12 INCREASE IN TVOC CONCENTRATION
- EW-3 DECREASE IN TVOC CONCENTRATION
- 87-02(3) NO VOCS DETECTED
- 89-14(0) NO SAMPLE COLLECTED – WELL DRY

NOTES:

1. GRID SYSTEM SHOWN IS 1000–METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
4. TOTAL VOLATILE ORGANIC (TVO) DETECTIONS/MINUS CARBON DISULFIDE.

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES BUFFALO, NY

CB&I

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 7

CHANGES IN TVOC CONCENTRATIONS
OCTOBER 2016

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

File: O:\Shaw Offices – CAD Files\Latham, NY\156045\156045-D4.dwg
Plot Date/Time: Jan 12, 2017 – 12:48pm
Plotted By: Evan.Schlegel

Figure 8

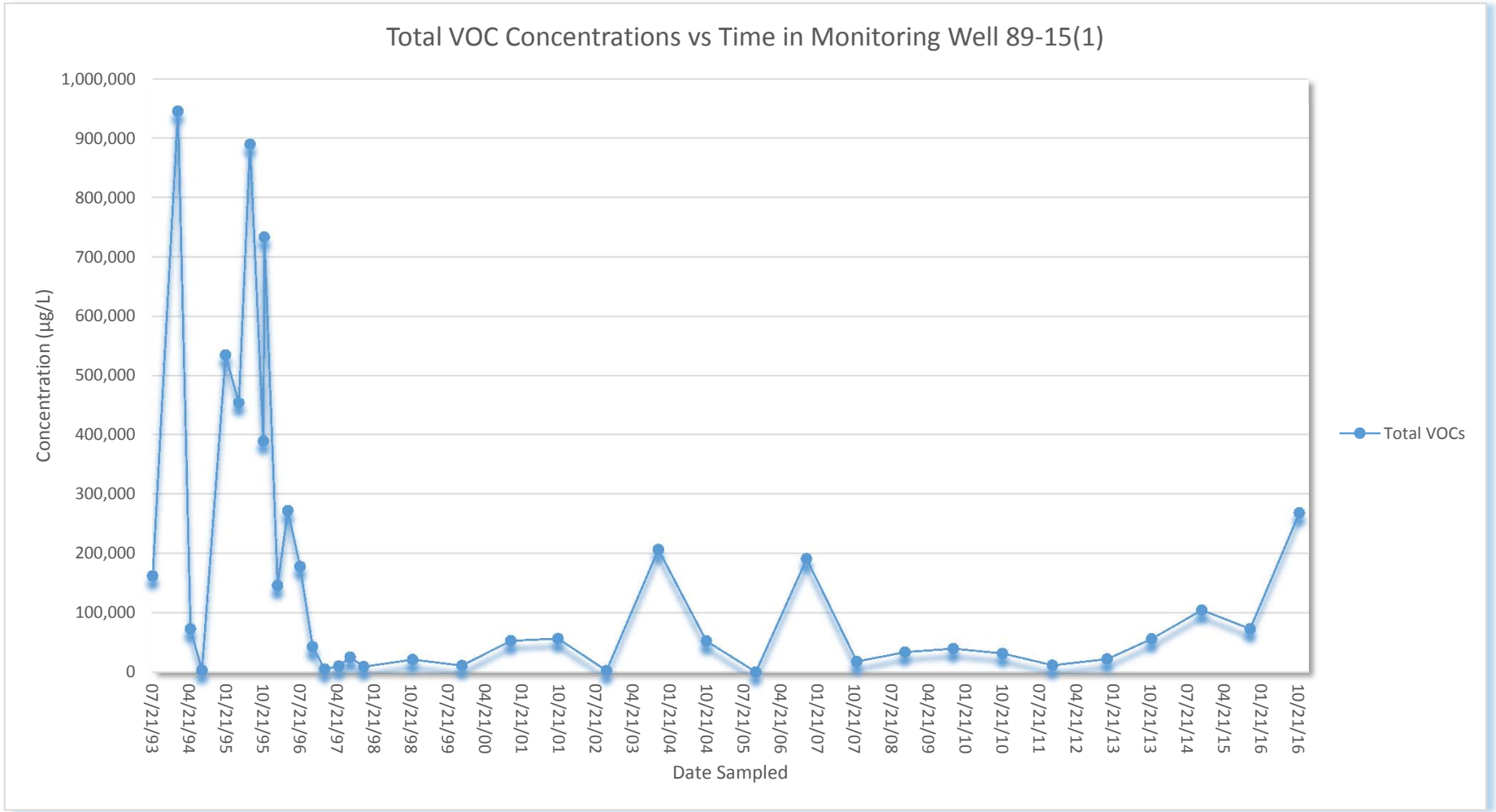

Total VOC Concentrations vs Time in Monitoring Well 89-15(1)
Concentration (µg/L)
1,000,000
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
07/21/93
04/21/94
01/21/95
10/21/95
07/21/96
04/21/97
01/21/98
10/21/98
07/21/99
04/21/00
01/21/01
10/21/01
07/21/02
04/21/03
01/21/04
10/21/04
07/21/05
04/21/06
01/21/07
10/21/07
07/21/08
04/21/09
01/21/10
10/21/10
07/21/11
04/21/12
01/21/13
10/21/13
07/21/14
04/21/15
01/21/16
10/21/16
Date Sampled
Total VOCs

Figure 9

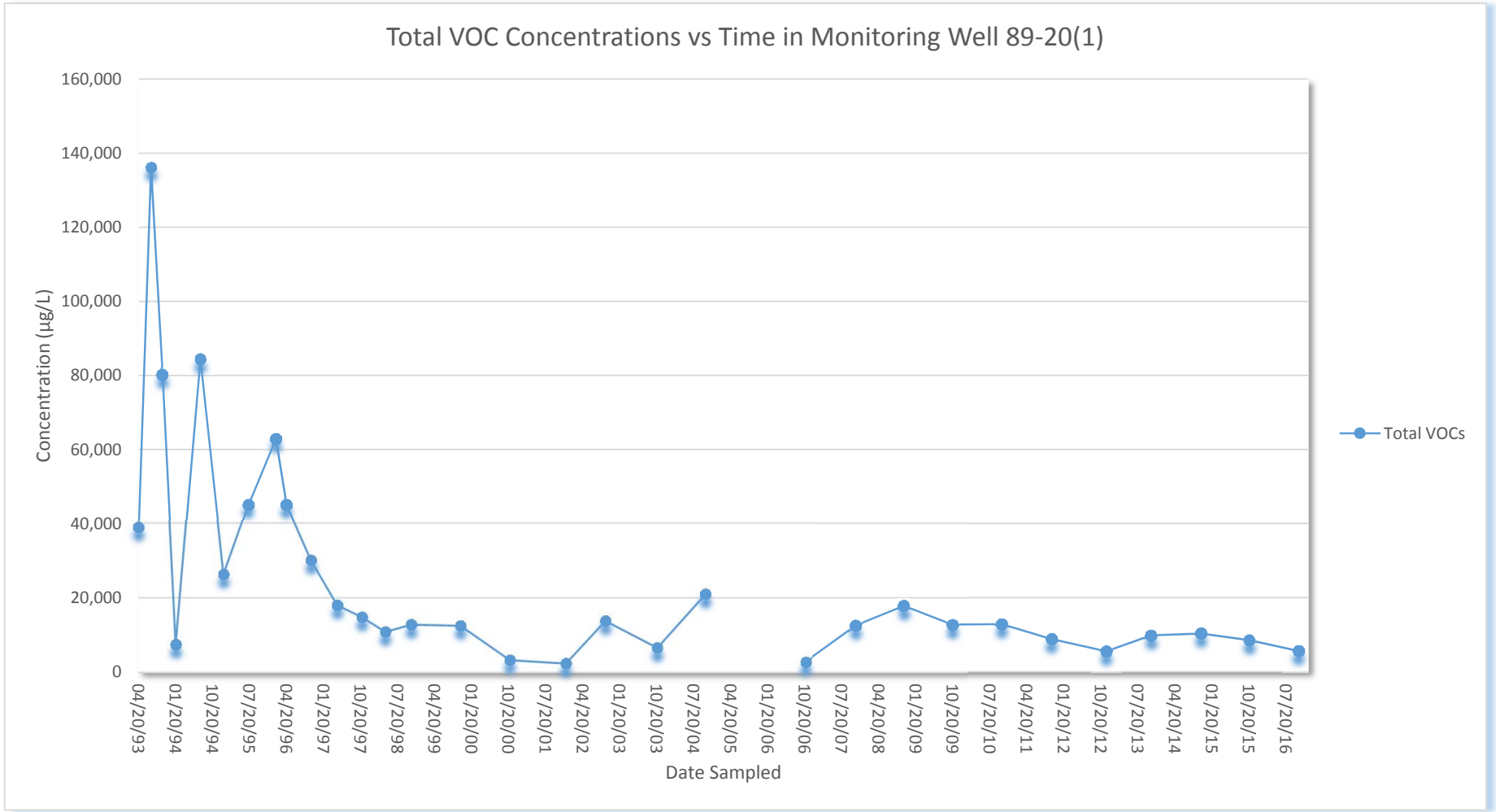
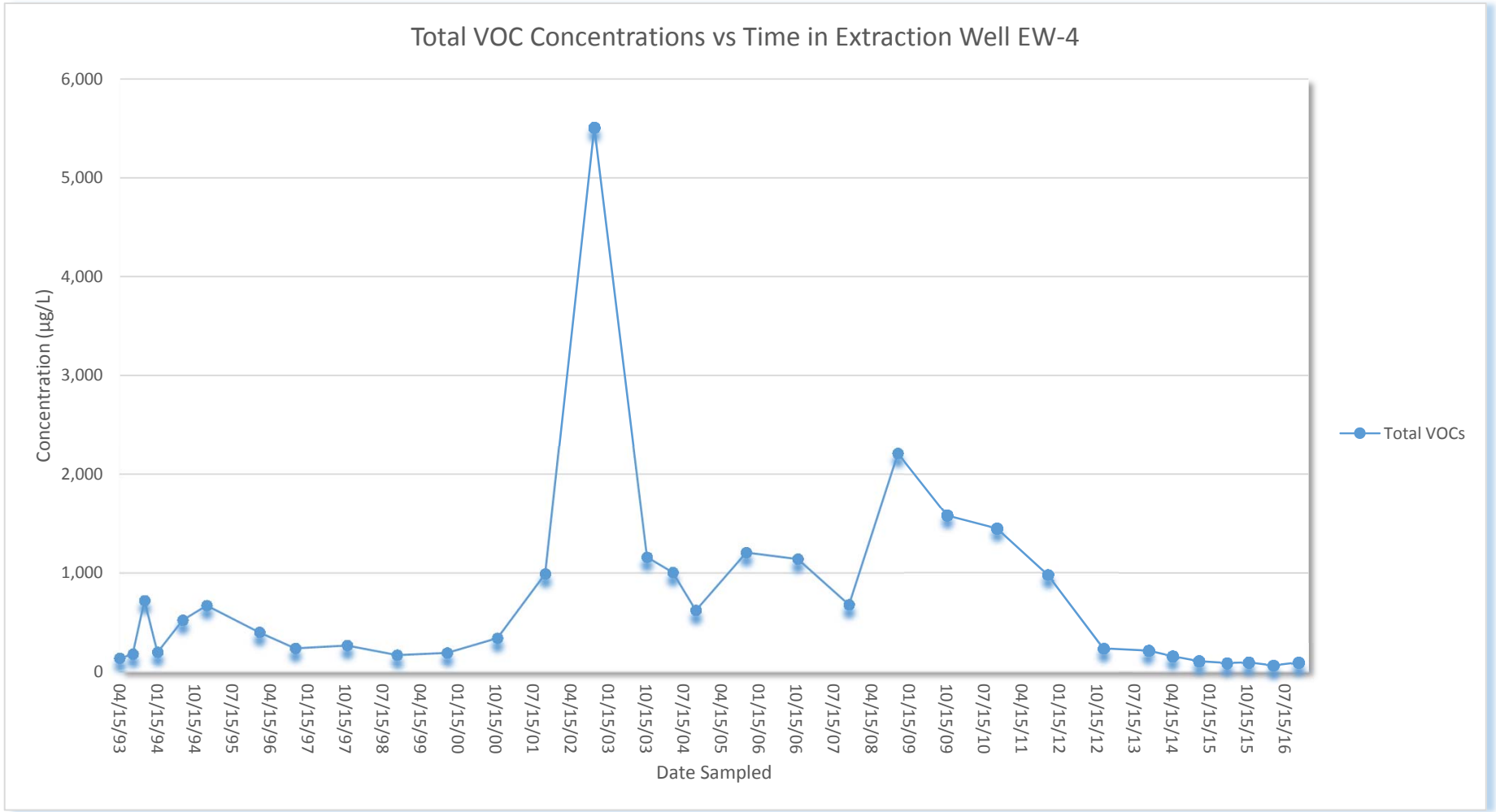

Total VOC Concentrations vs Time in Monitoring Well 89-20(1)
Concentration (µg/L)
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0
04/20/93
01/20/94
10/20/94
07/20/95
04/20/96
01/20/97
10/20/97
07/20/98
04/20/99
01/20/00
10/20/00
07/20/01
04/20/02
01/20/03
10/20/03
07/20/04
04/20/05
01/20/06
10/20/06
07/20/07
04/20/08
01/20/09
10/20/09
07/20/10
04/20/11
01/20/12
10/20/12
07/20/13
04/20/14
01/20/15
10/20/15
07/20/16
Date Sampled
Total VOCs

Figure 10


Total VOC Concentrations vs Time in Extraction Well EW-4
Concentration (µg/L)
6,000
5,000
4,000
3,000
2,000
1,000
0
04/15/93
01/15/94
10/15/94
07/15/95
04/15/96
01/15/97
10/15/97
07/15/98
04/15/99
01/15/00
10/15/00
07/15/01
04/15/02
01/15/03
10/15/03
07/15/04
04/15/05
01/15/06
10/15/06
07/15/07
04/15/08
01/15/09
10/15/09
07/15/10
04/15/11
01/15/12
10/15/12
07/15/13
04/15/14
01/15/15
10/15/15
07/15/16
Date Sampled
Total VOCs

DRAWING NUMBER 156045-D5

APPROVED BY

CHECKED BY C. Byers

DRAWN BY E. Schlegel 1/11/17

OFFICE Pittsburgh, PA

68,000 m E

69,000 m E

70,000 m E

74,000 m N

73,000 m N

APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO OCTOBER 2016 SAMPLING EVENT – SEE NOTE 4.)

NEUTRALIZATION POND

FORMER TEXTRON INC. (WHEATFIELD PLANT)

STATE RTE. 62 (NIAGARA FALLS BLVD.)

NIAGARA ROAD

OLD FALLS BLVD.

CAYUGA DR. EXT.

NIAGARA FALLS BLVD

BERGHOLTZ CREEK

SAWYER CREEK

DRAINAGE DITCH

RAILROAD

CONRAIL

WALMORE ROAD

SY ROAD

JAGOW ROAD

87-15(1) 89-14(1) DW-9 87-08(1) 87-14(1) 87-17(1) DW-10 87-04(1) 87-13(1) 89-15(1) 87-05(1) DW-11 B-14(1) 87-10(1) 87-02(1) DW-12 89-12(1) 87-01(1) 87-18(1) EW-7 96-01(1) EW-13 EW-8 87-12(1) 87-22(1) 89-04(1) 87-20(1) 87-19(1) 87-21(1) EW-2 EW-3 EW-4 EW-5 EW-6 93-03(1)

LEGEND:

- EXTRACTION WELL OR DNAPL WELL
- MONITORING WELL OR PIEZOMETER
- APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)

NOTES:

1. GRID SYSTEM SHOWN IS 1000–METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
4. TOTAL VOLATILE ORGANIC (TVO) DETECTIONS/MINUS CARBON DISULFIDE.

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES BUFFALO, NY

SCALE 0 300 600 900 FEET

CBI

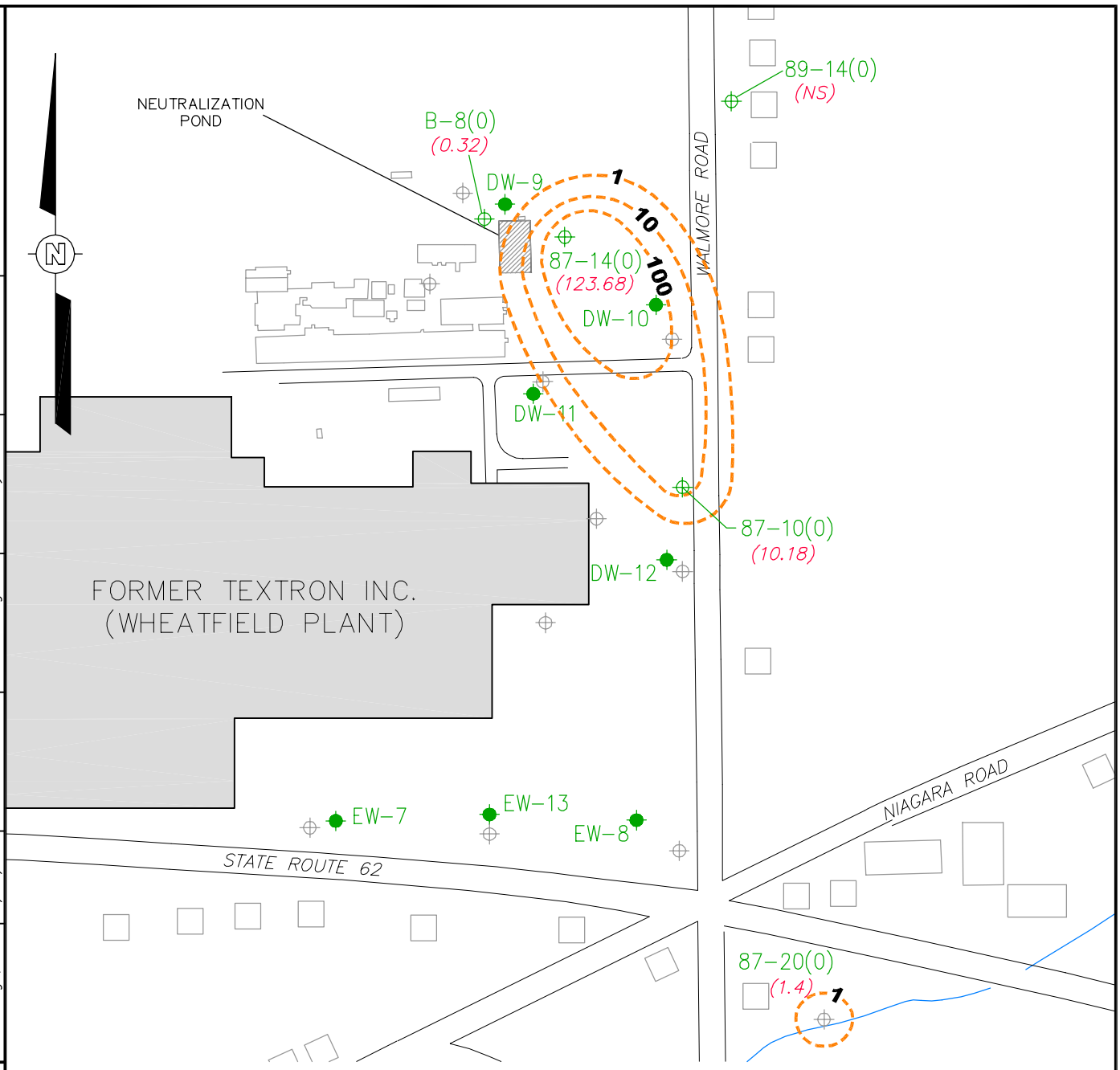
TEXTRON NIAGARA FALLS, NEW YORK

FIGURE 11

DISSOLVED PHASE PLUME MAP ZONE 1 BEDROCK - OCTOBER 2016

2221 NIAGARA FALLS BOULEVARD NIAGARA FALLS, NEW YORK

File: O:\Snow Offices – CAD Files\Latham, NY\156045\156045-D5.dwg
Plot Date/Time: Jan 16, 2017 – 9:35am
Plotted By: Evan.Schlegel



OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	1/11/17	--	E. Schlegel	C. Byers	--	156045-A3

LEGEND:

- MONITORING WELL OVERBURDEN
- EXTRACTION WELL OR DNAPL WELL (ZONE 1)
- MONITORING WELL (ZONE 1)
- (0.32) TVO CONCENTRATION IN µg/L OR ppb
- (NS) NOT SAMPLED

SCALE

0 300 600 FEET

NOTES:

1. GRID SYSTEM SHOWN IS 1000-METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
4. CONTOURS BETWEEN KNOWN POINTS HAVE BEEN INTERPOLATED.
5. TOTAL VOLATILE ORGANIC (TVO) DETECTIONS/MINUS CARBON DISULFIDE.

CB&I

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 12

DISSOLVED PHASE PLUME MAP
OVERBURDEN - OCTOBER 2016

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

File: O:\Shaw Offices - CAD Files\Latham, NY\156045\156045-A3.dwg
Plot Date/Time: Jan 11, 2017 - 11:55am Image
Plotted By: Evan.Schlegel

Appendix A

Well Inspection Forms

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: B-8(O)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1320

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		N/A	PVC RISER PC		
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓	NEEDS TREES/SHRUBS CUT		
	Recharge Rate		✓	DRIED OUT		
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: B-14(1)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1055

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A	PVC		
	Well Number Readable on Outer Casing		↓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: DW-9

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1310

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA			
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place		N/A			
	Lock in Place					
	Lock Functional					
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: DW-10

Date of Inspection: 10/ 25 /2016 (month/day/year)

Time of Inspection: 1155

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	NA				
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place	NA				
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: DW-11

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1035

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place		N/A			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: DW-12

Date of Inspection: 10/ 6 /2016 (month/day/year)

Time of Inspection: 1625

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A				
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other		✓			
Security	Security Cap in Place	N/A				
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-2 TAKE MS/MSD Here

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1005

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	NA				
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth	NA				
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place	NA				
	Lock in Place					
	Lock Functional					
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-3

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1030

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other		✓			
Security	Security Cap in Place		N/A			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-4

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1040

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A				
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place	N/A				
	Lock in Place					
	Lock Functional					
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-5

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1050

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA			
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place		NA			
	Lock in Place					
	Lock Functional					
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-6

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1110

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		A/B			
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place		NA			
	Lock in Place					
	Lock Functional					
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-7
Date of Inspection: 10/ 19 /2016 (month/day/year)
Time of Inspection: 1510
Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA	CONCRETE BEGINNING TO SPALL + FALL AWAY INSIDE (SHOWING REBAR)		
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other	✓				
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-8

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1540

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		N/A			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: EW-13

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1525

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA/A			
	Well Number Readable on Outer Casing					
	Integrity of Surface Seal/Apron					
	Integrity of Surface Casing					
	Corrosion					
	Inner Casing/Screen Integrity					
	Measuring Point Visibility					
	Total Depth					
	Siltation					
	Recharge Rate					
	Other					
Security	Security Cap in Place		NA/A			
	Lock in Place					
	Lock Functional					
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-01(1)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1555

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A	RUSTY		
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other		✓			

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-02(1)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 0915

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓	RUSTY		
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓	SOFT		
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-02(3)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 0915

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓	RUSTY		
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓	DRIES OUT		
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-08(1) COLLECT MS/MSD HERE

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1250

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A	RUSTY		
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place	✓		FALLS OFF		
	Lock in Place		✓			
	Lock Functional	✓				
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-10(0)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1500

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A	SOMEWHAT RUSTY		
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-13(3)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1125

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional	✓		MOOG BROKEN LOCK		
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-14(0) TAKE DUP-2 HERE

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1230

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing	✓				
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional	✓		MOCK LOCK		
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-17(1)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1350

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional	✓		MOCK LOCK		
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-19(1)

Date of Inspection: 10/19/2016 (month/day/year)

Time of Inspection: 1350

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A	RUSTY		
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-20(0)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1415

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A		RUSTY		
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-20(1)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1415

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A				
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓	RUSTY		
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-21(1)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1335

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓	RUSTY		
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 87-22(1) TAKE DUP-1 HERE

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1300

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A				
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 89-04(1)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1225

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A				
	Well Number Readable on Outer Casing	✓				
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place	N/A		FLUSH MTD PC		
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

CONCRETE PAD FOR SOUTH BOLLARD BEGINNING TO HEAVE - CRACK

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 89-14(O)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1450

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓	RUSTY		
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		—	DRY		
	Other		✓			
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 89-14(1)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1450

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)	N/A				
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓	RUSTY		
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 89-15(1)

Date of Inspection: 10/ 20 /2016 (month/day/year)

Time of Inspection: 1205

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		NA			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Well Inspection Form
Textron, Inc.
Wheatfield, New York

Well Designation: 93-03(1)

Date of Inspection: 10/ 19 /2016 (month/day/year)

Time of Inspection: 1135

Inspector's Name: Kevin Cronin

Item	Types of Problems	Status U	Status A	Comments	Action	Date
Well Condition	Flagging Visibility (if applicable)		N/A			
	Well Number Readable on Outer Casing		✓			
	Integrity of Surface Seal/Apron		✓			
	Integrity of Surface Casing		✓			
	Corrosion		✓			
	Inner Casing/Screen Integrity		✓			
	Measuring Point Visibility		✓			
	Total Depth		✓			
	Siltation		✓			
	Recharge Rate		✓			
	Other					
Security	Security Cap in Place		✓			
	Lock in Place		✓			
	Lock Functional		✓			
	Other					

Status: U - Unacceptable
A - Acceptable
NA - Not applicable

Appendix B

Field Sampling Data Sheets

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ B-8(0)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAM
Depth to Water: ~13.34
Depth to Bottom: ~18.46
Purge Volume: 0.8 gal
Volume Removed: ~1.5 gal

DRYING OUT

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.62	0.700	9.35	V TURBID REDDISH BRN ~~clear~~
Final Purge	NM →			~~clear~~

Sampling Method: circle one

(~~Stainless Steel Bailer~~) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-B-8(0)-161020
Sample Collection Date/Time: 10/ 20 /2016 1330
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ B-14(1)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ NAD
Depth to Water: ~17.67
Depth to Bottom: ~ 26.99
Purge Volume: ~1.5 gal
Volume Removed: ~5 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.48	2.287	9.97	clear Sl H_2S odor
Final Purge	7.30	2.273	9.92	clear " " "

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-B-14(1)-161020
Sample Collection Date/Time: 10/ 20 /2016 1110
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cron

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ DW-9
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~8.21
Depth to Bottom: ~24.60 50FT
Purge Volume:
Volume Removed: ~4.0 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond ms/cm	Temp. °C	Sample Description
Initial Purge	7.72	0.613	9.73	clear
Final Purge	7.75	0.613	9.74	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-DW-9-161020
Sample Collection Date/Time: 10/ 20 /2016 1315
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ DW-10
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ 2A/N
Depth to Water: 11.29
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 3 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.37	1.202	10.76	clear
Final Purge	7.32	1.203	10.75	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-DW-10-161020
Sample Collection Date/Time: 10/20/2016 1200
Analysis Requested: EPA Method 8260

Notes: INSTALLED BLANKET IN VAULT

Sampler Signature: Kim Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ DW-11
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAW
Depth to Water: ~9.87
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~3 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.21	2.485	11.37	~~clear~~ LT GRAY/SLT
Final Purge	7.12	2.490	11.32	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-DW-11-161020
Sample Collection Date/Time: 10/20/2016 1040
Analysis Requested: EPA Method 8260

Notes: INSTALLED BLANKET IN VAULT

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ DW-12
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~12.65'
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~2.0 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.42	1.417	12.30	clear
Final Purge	7.38	1.408	12.33	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-DW-12-161019
Sample Collection Date/Time: 10/ 19 /2016 1630
Analysis Requested: EPA Method 8260

Notes: INSTALLED BLANKET IN VAULT

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-2
Date: 10/ /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~13.31'
Depth to Bottom: NM
Purge Volume: ~3 GAL
Volume Removed:

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.73	1.783	8.97	clear
Final Purge	7.29	1.752	8.62	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-2 -161019
Sample Collection Date/Time: 10/ 19 /2016 1015
Analysis Requested: EPA Method 8260

Notes: MS/MSD COLLECTED HERE

Sampler Signature: Kim Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-3
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~16.61
Depth to Bottom: NM
Purge Volume: ~3 ~~GAL~~ EC
Volume Removed: ~3 GAL

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.33	1.453	8.71	clear
Final Purge	7.22	1.492	8.75	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-3 -161019
Sample Collection Date/Time: 10/ 19 /2016 1035
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kin Cro

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-4
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 23.52
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 3 GAL

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.36	1.130	9.37	clear SLT H_2S odor
Final Purge	7.24	1.123	9.44	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-4-161019
Sample Collection Date/Time: 10/ 19 /2016 1045
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kim Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-5
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 12.93
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 3 GAL

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	4.11 ?	2.355	9.54	SLT TURBID BROWN ~~clear~~
Final Purge	3.70 ?	2.358	9.56	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-5 -161019 1100
Sample Collection Date/Time: 10/ 19 /2016
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-6
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 13.57
Depth to Bottom: NM
Purge Volume: ~ 2 GAL KC
Volume Removed: ~ 2 GAL

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	6.01	1.855	9.45	~~clear~~ V. SLT TURBID BRN
Final Purge	6.43	1.840	9.17	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-6 -1610 19
Sample Collection Date/Time: 10/ 19 /2016 1125
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cron

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-7
Date: 10/ /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 18.90
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 0.2 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.61	1.548	14.70	clear
Final Purge	7.43	1.542	14.24	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-7-161019
Sample Collection Date/Time: 10/19 /2016 1515
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyra Cron

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-8
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~16.78
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~1.5 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.55	1.440	13.19	clear
Final Purge	7.46	1.441	13.27	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-8-161019
Sample Collection Date/Time: 10/ 19 /2016 1545
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyra Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: ~~MW-~~ EW-13
Date: 10/ /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~18.77'
Depth to Bottom: NM
Purge Volume: —
Volume Removed: —

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	NM	—	—	clear
Final Purge	NM	—	—	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-EW-13 -161019
Sample Collection Date/Time: 10/ 19 /2016 1530
Analysis Requested: EPA Method 8260

Notes: TOO LITTLE WATER ABOVE PUMP TO COLLECT GW FOR PARAMETERS W/ NARROW DIAMETER BAILER

Sampler Signature: Kyle Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-01(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 20.15'
Depth to Bottom: ~ 33.23'
Purge Volume: ~ 2.1 gal
Volume Removed: ~ 8 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.67	1.459	13.19	SLT BRN TURBID ~~clear~~
Final Purge	7.36	1.448	12.93	V. SLT ~~BRN~~ TURBID ~~clear~~ GRAYISH

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-01(1)-1610 19
Sample Collection Date/Time: 10/ 19 /2016 1605
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-02(1)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv RAW
Depth to Water: ~ 19.47'
Depth to Bottom: ~ 33.88'
Purge Volume: ~2.3
Volume Removed: ~7 gal DRYING OUT

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | DEDICATED Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.48	1.654	11.16	clear
Final Purge	7.41	1.660	11.34	clear SLT H2S ODOR

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | DEDICATED Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-02(1)-161020
Sample Collection Date/Time: 10/ 20 /2016 0950
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW-87-02(3)
Date: 10/20/2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAW
Depth to Water: 15.24
Depth to Bottom: 57.93
Purge Volume: ~6.9 — 5 Drops
Volume Removed: ~15 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.87	4.305	11.38	✓ SLT TURBID GRAY ~~clear~~ SLT H_2S ODOR
Final Purge	7.76	4.386	10.06	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-02(3)-161020
Sample Collection Date/Time: 10/20/2016 0940
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87 - 08(1)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAIN
Depth to Water: ~16.37'
Depth to Bottom: ~ 32.68'
Purge Volume: ~ 2.5 gal
Volume Removed: ~ 6.0

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	8.14	0.890	8.58	clear
Final Purge	7.47	1.003	8.44	clear

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-08(1)-161020
Sample Collection Date/Time: 10/20 /2016 1305
Analysis Requested: EPA Method 8260

Notes: MS/MSD COLLECTED HERE

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW-87-10(0)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ N/A
Depth to Water: ~14.53'
Depth to Bottom: ~18.42'
Purge Volume: 0.6 gal
Volume Removed: ~3 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.24	1.391	15.94	~~clear~~ VTURBID REDDISH BRN
Final Purge	7.31	0.902	16.36	~~clear~~ SCT TURBID BRN

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-10(0)-161020
Sample Collection Date/Time: 10/ 20 /2016 1010
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-13(3)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAIN
Depth to Water: ~14.81
Depth to Bottom: ~57.41'
Purge Volume: ~10 gal
Volume Removed: ~10 gal DRYING OUT

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.26	2.336	10.52	clear
Final Purge	7.11	2.357	9.11	clear SLT H_2S ODOR

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-13(3)-161020
Sample Collection Date/Time: 10/ 20 /2016 1145
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyra Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-14(0)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAW
Depth to Water: ~ 12.73'
Depth to Bottom: ~ 16.63' DRYING OUT
Purge Volume: 0.6 gal
Volume Removed: ~

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.57	1.247	9.60	V. TURBID REDDISH BRN ~~clear~~
Final Purge	7.50	1.209	9.57	SLT TURBID, LT REDDISH BRN clear

Sampling Method: circle one

(Stainless Steel ~~Bailer~~) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- 87-14(0)-161020
Sample Collection Date/Time: 10/ 20 /2016 1245
Analysis Requested: EPA Method 8260

Notes: DUP-2 TAKEN HERE

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-17(1)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0 ppmv~~ RAIN
Depth to Water: 14.24'
Depth to Bottom: 32.08'
Purge Volume: ~ 3.0 gal
Volume Removed: ~9.0 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge ~~Method~~: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.45	1.904	11.29	V SLT GRAY ISH TURBID ~~clear~~ SLT H_2S odor
Final Purge	7.23	2.443	10.23	clear SLT H_2S odor

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-17(1)161020
Sample Collection Date/Time: 10/ 20 /2016 1405
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87 -19(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 18.21'
Depth to Bottom: ~ 33.95'
Purge Volume: ~ 2.6 gal
Volume Removed: ~9 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.68	2.381	10.58	clear
Final Purge	7.38	2.881	10.12	clear

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- 87 -19(1)-1610
Sample Collection Date/Time: 10/ 19 /2016 19 1405
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-20(0)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 8.06'
Depth to Bottom: ~ 10.31'
Purge Volume: 0.4 gal
Volume Removed: ~ 1.2 gal

POISON IVY!

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.22	0.799	12.21	clear
Final Purge	—	—	—	clear

DRYING OUT

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- 87-20(0) -1610 19
Sample Collection Date/Time: 10/ 19 /2016 1425
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyan Cron

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87 - 20(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: ~~0.0~~ ppmv 0.6
Depth to Water: ~15.97'
Depth to Bottom: ~31.30'
Purge Volume: ~2.5 gal
Volume Removed: ~8.5 gal

POISON IVY.

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.47	2.333	10.66	clear
Final Purge	7.23	2.408	10.30	clear

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-20(1)-161019
Sample Collection Date/Time: 10/ 19 /2016 1440
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyle Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW-87-21(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 14.44'
Depth to Bottom: ~ 33.71 soft 33.71
Purge Volume: ~ 3.1 gal
Volume Removed: 8 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.68	1.523	10.70	V SLT BRN TURB (1) ~~clear~~
Final Purge	7.33	1.602	10.63	clear

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-21(1)-161019
Sample Collection Date/Time: 10/ 19 /2016 1345
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyra Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 87-22(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 20.70'
Depth to Bottom: ~ 32.50
Purge Volume: ~ 1.9 gal
Volume Removed: ~ 6 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.47	2.026	8.74	clear
Final Purge	7.10	2.248	8.42	clear

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-87-22(1)-1610 ~~19~~ 19 KC
Sample Collection Date/Time: 10/19 /2016 1310
Analysis Requested: EPA Method 8260

Notes: DUP-1 COLLECTED HERE

Sampler Signature: Kyan Cro

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 89-04(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 9.60
Depth to Bottom: ~ 27.20'
Purge Volume: ~2.9 gal
Volume Removed:

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | DEDICATED Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.40	1.069	10.41	SLT BRN SLT TURBID w/ ~~clear~~ SEDIMENTS
Final Purge	6.99	2.808	9.16	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | DEDICATED Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-89-04(1)-161019
Sample Collection Date/Time: 10/ 19 /2016 1245
Analysis Requested: EPA Method 8260

Notes: SS BAILER DOES NOT FIT PAST KINK IN RISER USE POLYETHYLENE BAILER. BOB SAYS HE FEELS KINK/SPLIT IN RISER @ ~18' BTL, ABLE TO GET PAST

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 89-14(0)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: DRY
Depth to Bottom: ~12.16'
Purge Volume: —
Volume Removed: —

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge				clear
Final Purge				clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-89-14(0)-1610 NO SAMPLE - DRY
Sample Collection Date/Time: 10/ /2016
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kym Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 89-14(1)
Date: 10/ 19 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~15.71'
Depth to Bottom: ~31.32'
Purge Volume: ~2.5 gal
Volume Removed: ~8 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.43	1.998	10.64	V SLT TURBID, BLACKISH ~~clear~~
Final Purge	7.06	3.050	10.05	SLT TO TURBID, BLACK SPECKS THROUGHOUT ~~clear~~

Sampling Method: circle one

(Stainless Steel Bailer) Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-89-14(1)-161019
Sample Collection Date/Time: 10/ 19 /2016 1500
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kym Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW- 89-15(i)
Date: 10/ 20 /2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~ 18.50
Depth to Bottom: ~ 34.21
Purge Volume: ~ 2.6 gal
Volume Removed: ~ 7.5 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.32	1.721	10.91	clear w/ BLACK FLECKS V. SLT SHEEN
Final Purge	7.02	2.410	10.23	clear " "

Sampling Method: circle one

(Stainless Steel Bailer) | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- 89-15(i)-161020
Sample Collection Date/Time: 10/ 20 /2016 1215
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyan Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 156045
Well Number: MW-93-03(1)
Date: 10/19/2016
Field Personnel: K. Cronin, ALS tech.
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Water: ~14.06'
Depth to Bottom: ~46.92'
Purge Volume: 5.4 gal
Volume Removed: ~14 gal

*Volume Factors: (circle one)
1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | DEDICATED Polyethylene Bailer | Grundfos Submersible Pump

Purge Water Disposal: In Plant for Treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	6.76	2.711	8.39	clear
Final Purge	6.87	2.742	7.98	clear SLT H_2S odor

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | DEDICATED Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT-93-03(1)-161019 1145
Sample Collection Date/Time: 10/19/2016
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kyle Cro

Appendix C

Chain-of-Custody Forms

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41145

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 4

Project Name: ANNUAL WELLS	Project Number: 156045
Project Manager: KEVIN CROWLEY	Report CC: CECELIA BY CBS
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM NY 12110	
Phone #: (518) 783-1996	Email: CECELIA.BYRNES@CBI.COM
Sampler's Signature:	Sampler's Printed Name: BOB URBAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP | GC/MS SVOAs ◦ 8270 ◦ 625 | GC VOAs ◦ 8021 ◦ 601/602 | PESTICIDES ◦ 8081 ◦ 608 | PCBs ◦ 8082 ◦ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION
BAT-EW-2-161019		10/19/16	1015	W	QC
BAT-EW-3-161019			1035		
BAT-EW-4-161019			1045		
BAT-EW-5-161019			1100		
BAT-EW-6-161019			1125		
BAT-93-03(L)-161019			1145		
BAT-89-04(L)-161019			1245		
BAT-87-22(L)-161019			1310		
DUP #1			—		
BAT-87-21(L)-161019			1345		
BAT-87-19(L)-161019			1405		

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: BOB URBAN	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: AGS	Firm	Firm	Firm	Firm	Firm
Date/Time: 10/20/16	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41147

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 4

Project Name: HANNAH WELLS	Project Number: 156045
Project Manager: KEVIN CRONIN	Report CC: CECELIA.BYERS
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM NY 12110	
Phone #: 518 783-1996	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: BOB CLARK

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
BAT-87-2001-161019		10/19/19	1440	W		X							
BAT-87-2006-161019			1425	W									
BAT-89-1A(6)-161019													DUP
BAT-89-1401-161019			1500	W									
~~BAT-87-1501-161019~~													
BAT-EW-7 161019			1515	W									
BAT-EW-13 161019			1530										
BAT-EW-8 161019			1545										
BAT-FB-1 161019			1550										
BAT-87-0101 161019			1605										
BAT-~~87~~ DW-12-161019			1630										

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: BOB CLARK	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: ALS	Firm	Firm	Firm	Firm	Firm
Date/Time: 10/19/19 1440	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41143

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 3 OF 4

Project Name: ANNUAL WELLS	Project Number: 156045
Project Manager: KEVIN CRONIN	Report CC: CECILIA BYRNS
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM, NY	
Phone #: (518) 783-1996	Email: CECILIA.BYRNS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: BOB CHRYAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
BAT-87-020)-161020		10/20/16	0950	W		X							
BAT-87-02(3)-161020			0940										
BAT-87-06(6)-161020			1010										
BAT-~~87~~ DW-11-161020			1040										
BAT-FB-2-161020			1030										
BAT-B-14(1)-161020			1110										
BAT-87-13(3)-161020			1145										
BAT-DW-10-161020			1200										
BAT-89-15(1)-161020			1215										
BAT-87-14(0)-161020			1245										
BAT-DUP-2-161020													

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____Yes _____No

INVOICE INFORMATION
PO #
BILL TO:

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature						
Printed Name	BOB CHRYAN					
Firm	ALS					
Date/Time	10/20/16 1442					

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

40456

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

Project Name: ANALYTICAL WELLS	Project Number:
Project Manager: KEVIN CRONIN	Report CC:
Company/Address: CB & I	
Phone #	Email
Sampler's Signature	Sampler's Printed Name: BOB UNSAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ○ 8260 ○ 624 ○ CLP | GC/MS SVOAs ○ 8270 ○ 625 | GC VOAs ○ 8021 ○ 601/602 | PESTICIDES ○ 8081 ○ 608 | PCBs ○ 8082 ○ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs	REMARKS/ ALTERNATE DESCRIPTION
BAT-87-086)-161020		10/20/16	1305	W	X	MS/MSD
BAT-BW-9-161020			1315			
BAT-B-86)-161020			1330			
BAT-B-176)-161020			1405			
T-113				W		

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day ____2 day ____3 day
_____ 4 day ____5 day

REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____Yes ____No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: BOB UNSAN	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: ALS	Firm	Firm	Firm	Firm	Firm
Date/Time: 10/20/16 1445	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

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Appendix D

ALS Environmental, Inc. Analytical Report

November 29, 2016 Service Request No:R1611185

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mosside Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield-Annual Wells

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory October 20, 2016
For your reference, these analyses have been assigned our service request number **R1611185.**

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

CC: Lisa
Schermerhorn

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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: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request:R1611185
Date Received:10/20/16

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

Thirty six water samples were received for analysis at ALS Environmental on 10/20/2016. 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.

Volatile Organic Analyses:

Method 8260, 10/24/16: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260, 10/24/16, 10/27/16: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260, 10/26/16: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Sample Receiving Notes:

Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.

Approved by _____ Date 11/29/2016

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-EW-2-161019	Lab ID: R1611185-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	200		0.32	1.0	ug/L	8260C
trans-1,2-Dichloroethene	2.9		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	13		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	280	E	0.30	1.0	ug/L	8260C
Chloroform	0.65	J	0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	21		0.36	1.0	ug/L	8260C
Trichloroethene	7.7		0.22	1.0	ug/L	8260C
Vinyl Chloride	160	D	0.64	2.0	ug/L	8260C
Acetone	3.6	DJ	2.5	10	ug/L	8260C
Carbon Disulfide	0.66	DJ	0.44	2.0	ug/L	8260C
trans-1,2-Dichloroethene	2.7	D	0.66	2.0	ug/L	8260C
1,1-Dichloroethane	10	D	0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	250	D	0.60	2.0	ug/L	8260C
Chloroform	0.90	DJ	0.50	2.0	ug/L	8260C
1,1,1-Trichloroethane	18	D	0.72	2.0	ug/L	8260C
Trichloroethene	7.1	D	0.44	2.0	ug/L	8260C

CLIENT ID: BAT-EW-3-161019	Lab ID: R1611185-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	720		3.2	10	ug/L	8260C
trans-1,2-Dichloroethene	10		3.3	10	ug/L	8260C
1,1-Dichloroethane	13		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1600		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	17		3.6	10	ug/L	8260C
Trichloroethene	4.6	J	2.2	10	ug/L	8260C

CLIENT ID: BAT-EW-4-161019	Lab ID: R1611185-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	50		0.32	1.0	ug/L	8260C
Carbon Disulfide	0.61	J	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.9		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	1.6		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	39		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	0.93	J	0.36	1.0	ug/L	8260C
Trichloroethene	0.71	J	0.22	1.0	ug/L	8260C

CLIENT ID: BAT-EW-5-101619	Lab ID: R1611185-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	290	E	0.32	1.0	ug/L	8260C
1,1-Dichloroethene	2.0		0.57	1.0	ug/L	8260C
Acetone	5.8		1.3	5.0	ug/L	8260C
Carbon Disulfide	0.31	J	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	4.1		0.33	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-EW-5-101619	Lab ID: R1611185-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloroform	0.53	J	0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	15		0.36	1.0	ug/L	8260C
Trichloroethene	4.9		0.22	1.0	ug/L	8260C
1,1-Dichloroethane	10		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	590	E	0.30	1.0	ug/L	8260C
1,1-Dichloroethane	9.9	D	1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	530	D	1.5	5.0	ug/L	8260C
Vinyl Chloride	210	D	1.6	5.0	ug/L	8260C
Acetone	12	DJ	6.2	25	ug/L	8260C
trans-1,2-Dichloroethene	4.4	DJ	1.7	5.0	ug/L	8260C
Chloroform	1.3	DJ	1.3	5.0	ug/L	8260C
1,1,1-Trichloroethane	12	D	1.8	5.0	ug/L	8260C
Trichloroethene	4.8	DJ	1.1	5.0	ug/L	8260C

CLIENT ID: BAT-EW-6-101619	Lab ID: R1611185-005					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	0.48	J	0.32	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.6		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	3.6		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	69		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	1.6		0.36	1.0	ug/L	8260C
Trichloroethene	1.1		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-93-03(1)-161019	Lab ID: R1611185-006					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Carbon Disulfide	0.23	J	0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.90	J	0.30	1.0	ug/L	8260C

CLIENT ID: BAT-89-04(1)-161019	Lab ID: R1611185-007					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	0.40	J	0.32	1.0	ug/L	8260C
Acetone	1.9	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	11		0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	0.41	J	0.33	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.1		0.30	1.0	ug/L	8260C
Trichloroethene	1.4		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-87-22(1)-161019	Lab ID: R1611185-008					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	430		1.6	5.0	ug/L	8260C
1,1-Dichloroethene	4.9	J	2.9	5.0	ug/L	8260C
Acetone	6.4	J	6.2	25	ug/L	8260C
trans-1,2-Dichloroethene	7.3		1.7	5.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-22(1)-161019	Lab ID: R1611185-008					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloroform	1.3	J	1.3	5.0	ug/L	8260C
Trichloroethene	5.0	J	1.1	5.0	ug/L	8260C
1,1-Dichloroethane	5.4		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1500	E	1.5	5.0	ug/L	8260C
1,1-Dichloroethane	5.2	DJ	2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1200	D	3.0	10	ug/L	8260C
Vinyl Chloride	320	D	3.2	10	ug/L	8260C
trans-1,2-Dichloroethene	7.1	DJ	3.3	10	ug/L	8260C
Chloroform	2.5	DJ	2.5	10	ug/L	8260C
Trichloroethene	3.9	DJ	2.2	10	ug/L	8260C

CLIENT ID: DUP #1	Lab ID: R1611185-009					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	320		0.64	2.0	ug/L	8260C
1,1-Dichloroethene	3.0		1.2	2.0	ug/L	8260C
trans-1,2-Dichloroethene	6.4		0.66	2.0	ug/L	8260C
1,1-Dichloroethane	4.9		0.40	2.0	ug/L	8260C
1,1,1-Trichloroethane	0.96	J	0.72	2.0	ug/L	8260C
Trichloroethene	3.6		0.44	2.0	ug/L	8260C
cis-1,2-Dichloroethene	1200	E	0.60	2.0	ug/L	8260C
cis-1,2-Dichloroethene	1600	D	3.0	10	ug/L	8260C
Vinyl Chloride	430	D	3.2	10	ug/L	8260C
trans-1,2-Dichloroethene	8.5	DJ	3.3	10	ug/L	8260C
1,1-Dichloroethane	6.0	DJ	2.0	10	ug/L	8260C
Chloroform	3.4	DJ	2.5	10	ug/L	8260C
Trichloroethene	5.1	DJ	2.2	10	ug/L	8260C

CLIENT ID: BAT-87-21(1)-161019	Lab ID: R1611185-010					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	77		0.64	2.0	ug/L	8260C
Acetone	2.7	J	2.5	10	ug/L	8260C
trans-1,2-Dichloroethene	6.7		0.66	2.0	ug/L	8260C
1,1-Dichloroethane	3.1		0.40	2.0	ug/L	8260C
Chloroform	0.62	J	0.50	2.0	ug/L	8260C
1,1,1-Trichloroethane	3.5		0.72	2.0	ug/L	8260C
Trichloroethene	5.4		0.44	2.0	ug/L	8260C
cis-1,2-Dichloroethene	450	E	0.60	2.0	ug/L	8260C
cis-1,2-Dichloroethene	460	D	3.0	10	ug/L	8260C
Vinyl Chloride	77	D	3.2	10	ug/L	8260C
1,1-Dichloroethane	3.4	DJ	2.0	10	ug/L	8260C
1,1,1-Trichloroethane	5.1	DJ	3.6	10	ug/L	8260C
Trichloroethene	7.0	DJ	2.2	10	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-19(1)-161019	Lab ID: R1611185-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	1.7		0.32	1.0	ug/L	8260C
cis-1,2-Dichloroethene	5.8		0.30	1.0	ug/L	8260C

CLIENT ID: BAT-87-20(1)-101619	Lab ID: R1611185-012					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	830		16	50	ug/L	8260C
1,1-Dichloroethane	18	J	10	50	ug/L	8260C
cis-1,2-Dichloroethene	4700		15	50	ug/L	8260C
Chloroform	18	J	13	50	ug/L	8260C
1,1,1-Trichloroethane	22	J	18	50	ug/L	8260C
Trichloroethene	19	J	11	50	ug/L	8260C

CLIENT ID: BAT-87-20(0)-161019	Lab ID: R1611185-013					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Acetone	1.4	J	1.3	5.0	ug/L	8260C

CLIENT ID: BAT-89-14(1)-161019	Lab ID: R1611185-014					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	250		0.64	2.0	ug/L	8260C
Acetone	3.9	J	2.5	10	ug/L	8260C
Carbon Disulfide	0.80	J	0.44	2.0	ug/L	8260C
trans-1,2-Dichloroethene	2.3		0.66	2.0	ug/L	8260C
1,1-Dichloroethane	20		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	130		0.60	2.0	ug/L	8260C
1,1,1-Trichloroethane	2.0	J	0.72	2.0	ug/L	8260C
Trichloroethene	1.7	J	0.44	2.0	ug/L	8260C

CLIENT ID: BAT-EW-7-161019	Lab ID: R1611185-015					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	490		1.6	5.0	ug/L	8260C
Carbon Disulfide	1.5	J	1.1	5.0	ug/L	8260C
Methylene Chloride	16		3.0	5.0	ug/L	8260C
trans-1,2-Dichloroethene	4.0	J	1.7	5.0	ug/L	8260C
1,1-Dichloroethane	23		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	690		1.5	5.0	ug/L	8260C
1,1,1-Trichloroethane	51		1.8	5.0	ug/L	8260C
Trichloroethene	6.4		1.1	5.0	ug/L	8260C

CLIENT ID: BAT-EW-13-161019	Lab ID: R1611185-016					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	550		1.6	5.0	ug/L	8260C
1,1-Dichloroethene	3.2	J	2.9	5.0	ug/L	8260C
trans-1,2-Dichloroethene	4.6	J	1.7	5.0	ug/L	8260C
1,1-Dichloroethane	28		1.0	5.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-EW-13-161019	Lab ID: R1611185-016					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
cis-1,2-Dichloroethene	650		1.5	5.0	ug/L	8260C
Chloroform	2.4	J	1.3	5.0	ug/L	8260C
1,1,1-Trichloroethane	66		1.8	5.0	ug/L	8260C
Trichloroethene	4.5	J	1.1	5.0	ug/L	8260C

CLIENT ID: BAT-EW-8-161019	Lab ID: R1611185-017					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	260		1.6	5.0	ug/L	8260C
1,1-Dichloroethene	3.2	J	2.9	5.0	ug/L	8260C
trans-1,2-Dichloroethene	4.3	J	1.7	5.0	ug/L	8260C
1,1-Dichloroethane	13		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	810		1.5	5.0	ug/L	8260C
Chloroform	2.8	J	1.3	5.0	ug/L	8260C
1,1,1-Trichloroethane	26		1.8	5.0	ug/L	8260C
Trichloroethene	5.5		1.1	5.0	ug/L	8260C

CLIENT ID: BAT-87-01(1)-161019	Lab ID: R1611185-019					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	96		1.6	5.0	ug/L	8260C
Acetone	7.5	J	6.2	25	ug/L	8260C
trans-1,2-Dichloroethene	6.3		1.7	5.0	ug/L	8260C
1,1-Dichloroethane	8.4		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	640		1.5	5.0	ug/L	8260C
Chloroform	2.1	J	1.3	5.0	ug/L	8260C
1,1,1-Trichloroethane	13		1.8	5.0	ug/L	8260C
Trichloroethene	120		1.1	5.0	ug/L	8260C

CLIENT ID: BAT-DW-12-161019	Lab ID: R1611185-020					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	180		0.32	1.0	ug/L	8260C
1,1-Dichloroethene	5.2		0.57	1.0	ug/L	8260C
Carbon Disulfide	0.90	J	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	15		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	13		0.20	1.0	ug/L	8260C
Chloroform	1.1		0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	34		0.36	1.0	ug/L	8260C
Trichloroethene	83		0.22	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1400	E	0.30	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1700	D	6.0	20	ug/L	8260C
Vinyl Chloride	170	D	6.4	20	ug/L	8260C
1,1-Dichloroethane	12	DJ	4.0	20	ug/L	8260C
Chloroform	6.0	DJ	5.0	20	ug/L	8260C
1,1,1-Trichloroethane	32	D	7.2	20	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-12-161019	Lab ID: R1611185-020					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene	75	D	4.4	20	ug/L	8260C

CLIENT ID: BAT-87-02(1)-161020	Lab ID: R1611185-021					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	330		16	50	ug/L	8260C
Methylene Chloride	220		30	50	ug/L	8260C
1,1-Dichloroethane	26	J	10	50	ug/L	8260C
cis-1,2-Dichloroethene	5100		15	50	ug/L	8260C
1,1,1-Trichloroethane	73		18	50	ug/L	8260C
Trichloroethene	3900		11	50	ug/L	8260C

CLIENT ID: BAT-87-02(3)-161020	Lab ID: R1611185-022					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Carbon Disulfide	1.3		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-87-10(0)-161020	Lab ID: R1611185-023					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Carbon Disulfide	0.27	J	0.22	1.0	ug/L	8260C
1,1-Dichloroethane	1.8		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	4.7		0.30	1.0	ug/L	8260C
Chloroform	1.8		0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	0.68	J	0.36	1.0	ug/L	8260C
Trichloroethene	1.2		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-DW-11-161020	Lab ID: R1611185-024					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	450		3.2	10	ug/L	8260C
Carbon Disulfide	3.4	J	2.2	10	ug/L	8260C
trans-1,2-Dichloroethene	5.9	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	25		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1500		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	110		3.6	10	ug/L	8260C
Trichloroethene	14		2.2	10	ug/L	8260C

CLIENT ID: BAT-B-14(1)-101620	Lab ID: R1611185-026					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	180		0.32	1.0	ug/L	8260C
1,1-Dichloroethene	1.3		0.57	1.0	ug/L	8260C
Acetone	1.6	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	0.71	J	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.8		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	20		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	170		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	81		0.36	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-B-14(1)-101620	Lab ID: R1611185-026					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene	1.8		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-87-13(3)-101620	Lab ID: R1611185-027					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	610		160	500	ug/L	8260C
Carbon Disulfide	710		110	500	ug/L	8260C
trans-1,2-Dichloroethene	390	J	170	500	ug/L	8260C
cis-1,2-Dichloroethene	57000		150	500	ug/L	8260C
Chloroform	810		130	500	ug/L	8260C
Trichloroethene	72000		110	500	ug/L	8260C
Bromodichloromethane	210	J	160	500	ug/L	8260C

CLIENT ID: BAT-DW-10-161020	Lab ID: R1611185-028					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	110		3.2	10	ug/L	8260C
1,1-Dichloroethene	5.9	J	5.7	10	ug/L	8260C
trans-1,2-Dichloroethene	3.8	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	12		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	960		3.0	10	ug/L	8260C
Chloroform	3.4	J	2.5	10	ug/L	8260C
1,1,1-Trichloroethane	57		3.6	10	ug/L	8260C
Trichloroethene	510		2.2	10	ug/L	8260C
Methylene Chloride	2300	E	6.0	10	ug/L	8260C
Methylene Chloride	2300	D	12	20	ug/L	8260C
Vinyl Chloride	100	D	6.4	20	ug/L	8260C
1,1-Dichloroethane	12	DJ	4.0	20	ug/L	8260C
cis-1,2-Dichloroethene	890	D	6.0	20	ug/L	8260C
1,1,1-Trichloroethane	54	D	7.2	20	ug/L	8260C
Trichloroethene	480	D	4.4	20	ug/L	8260C

CLIENT ID: BAT-89-15(1)-161020	Lab ID: R1611185-029					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	390		80	250	ug/L	8260C
Carbon Disulfide	110	J	55	250	ug/L	8260C
cis-1,2-Dichloroethene	17000		75	250	ug/L	8260C
Chloroform	410		63	250	ug/L	8260C
1,1,1-Trichloroethane	230	J	90	250	ug/L	8260C
Bromodichloromethane	130	J	80	250	ug/L	8260C
Methylene Chloride	82000	E	150	250	ug/L	8260C
Trichloroethene	110000	E	55	250	ug/L	8260C
Methylene Chloride	110000	D	600	1000	ug/L	8260C
Trichloroethene	140000	D	220	1000	ug/L	8260C
Vinyl Chloride	560	DJ	320	1000	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-15(1)-161020	Lab ID: R1611185-029					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Carbon Disulfide	230	DJ	220	1000	ug/L	8260C
cis-1,2-Dichloroethene	21000	D	300	1000	ug/L	8260C
Chloroform	1900	D	250	1000	ug/L	8260C
Bromodichloromethane	480	DJ	320	1000	ug/L	8260C

CLIENT ID: BAT-87-14(0)-161020	Lab ID: R1611185-030					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Acetone	1.9	J	1.3	5.0	ug/L	8260C
trans-1,2-Dichloroethene	0.34	J	0.33	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.91	J	0.30	1.0	ug/L	8260C
Chloroform	0.53	J	0.25	1.0	ug/L	8260C
Trichloroethene	120		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-DUP-2-161020	Lab ID: R1611185-031					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Chloromethane	0.35	J	0.21	1.0	ug/L	8260C
Bromomethane	0.69	BJ	0.29	1.0	ug/L	8260C
Acetone	2.3	J	1.3	5.0	ug/L	8260C
trans-1,2-Dichloroethene	0.37	J	0.33	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.1		0.30	1.0	ug/L	8260C
Chloroform	0.57	J	0.25	1.0	ug/L	8260C
Trichloroethene	120		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-87-08(1)-161020	Lab ID: R1611185-032					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	72		0.32	1.0	ug/L	8260C
1,1-Dichloroethene	1.9		0.57	1.0	ug/L	8260C
Carbon Disulfide	0.23	J	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.6		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	1.7		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	300	E	0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	0.77	J	0.36	1.0	ug/L	8260C
Trichloroethene	3.5		0.22	1.0	ug/L	8260C
Vinyl Chloride	68	D	0.80	2.5	ug/L	8260C
1,1-Dichloroethene	2.1	DJ	1.5	2.5	ug/L	8260C
trans-1,2-Dichloroethene	2.4	DJ	0.83	2.5	ug/L	8260C
1,1-Dichloroethane	1.4	DJ	0.50	2.5	ug/L	8260C
cis-1,2-Dichloroethene	300	D	0.75	2.5	ug/L	8260C
Trichloroethene	3.6	D	0.55	2.5	ug/L	8260C

CLIENT ID: BAT-DW-9-161020	Lab ID: R1611185-033					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	2.5		0.32	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-9-161020	Lab ID: R1611185-033					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Bromomethane	0.45	BJ	0.29	1.0	ug/L	8260C
1,1-Dichloroethene	12		0.57	1.0	ug/L	8260C
trans-1,2-Dichloroethene	8.6		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	13		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	800	E	0.30	1.0	ug/L	8260C
Chloroform	3.0		0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	44		0.36	1.0	ug/L	8260C
Benzene	0.85	J	0.20	1.0	ug/L	8260C
Trichloroethene	1300	E	0.22	1.0	ug/L	8260C
Trichloroethene	2400	D	4.4	20	ug/L	8260C
1,1-Dichloroethene	17	DJ	12	20	ug/L	8260C
Carbon Disulfide	5.6	DJ	4.4	20	ug/L	8260C
trans-1,2-Dichloroethene	9.4	DJ	6.7	20	ug/L	8260C
1,1-Dichloroethane	16	DJ	4.0	20	ug/L	8260C
cis-1,2-Dichloroethene	1100	D	6.0	20	ug/L	8260C
Chloroform	5.2	DJ	5.0	20	ug/L	8260C
1,1,1-Trichloroethane	46	D	7.2	20	ug/L	8260C

CLIENT ID: BAT-B-8(0)-161020	Lab ID: R1611185-034					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Toluene	0.32	J	0.20	1.0	ug/L	8260C

CLIENT ID: BAT-B-17(1)-161020	Lab ID: R1611185-035					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	150		0.32	1.0	ug/L	8260C
1,1-Dichloroethene	0.91	J	0.57	1.0	ug/L	8260C
Acetone	1.4	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	1.5		0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	2.5		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	21		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	130		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	89		0.36	1.0	ug/L	8260C
Trichloroethene	18		0.22	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: CB&I **Service Request:**R1611185

Project: Textron Wheatfield-Annual Wells/156045

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1611185-001	BAT-EW-2-161019	10/19/2016	1015
R1611185-002	BAT-EW-3-161019	10/19/2016	1035
R1611185-003	BAT-EW-4-161019	10/19/2016	1045
R1611185-004	BAT-EW-5-101619	10/19/2016	1100
R1611185-005	BAT-EW-6-101619	10/19/2016	1125
R1611185-006	BAT-93-03(1)-161019	10/19/2016	1145
R1611185-007	BAT-89-04(1)-161019	10/19/2016	1245
R1611185-008	BAT-87-22(1)-161019	10/19/2016	1310
R1611185-009	DUP #1	10/19/2016	
R1611185-010	BAT-87-21(1)-161019	10/19/2016	1345
R1611185-011	BAT-87-19(1)-161019	10/19/2016	1405
R1611185-012	BAT-87-20(1)-101619	10/19/2016	1440
R1611185-013	BAT-87-20(0)-161019	10/19/2016	1425
R1611185-014	BAT-89-14(1)-161019	10/19/2016	1500
R1611185-015	BAT-EW-7-161019	10/19/2016	1515
R1611185-016	BAT-EW-13-161019	10/19/2016	1530
R1611185-017	BAT-EW-8-161019	10/19/2016	1545
R1611185-018	BAT-FB-1-161019	10/19/2016	1550
R1611185-019	BAT-87-01(1)-161019	10/19/2016	1605
R1611185-020	BAT-DW-12-161019	10/19/2016	1630
R1611185-021	BAT-87-02(1)-161020	10/20/2016	0950
R1611185-022	BAT-87-02(3)-161020	10/20/2016	0940
R1611185-023	BAT-87-10(0)-161020	10/20/2016	1010
R1611185-024	BAT-DW-11-161020	10/20/2016	1040
R1611185-025	BAT-FB-2-101620	10/20/2016	1030
R1611185-026	BAT-B-14(1)-101620	10/20/2016	1110
R1611185-027	BAT-87-13(3)-101620	10/20/2016	1145
R1611185-028	BAT-DW-10-161020	10/20/2016	1200
R1611185-029	BAT-89-15(1)-161020	10/20/2016	1215
R1611185-030	BAT-87-14(0)-161020	10/20/2016	1245
R1611185-031	BAT-DUP-2-161020	10/20/2016	
R1611185-032	BAT-87-08(1)-161020	10/20/2016	1305
R1611185-033	BAT-DW-9-161020	10/20/2016	1315
R1611185-034	BAT-B-8(0)-161020	10/20/2016	1330
R1611185-035	BAT-87-17(1)-161020	10/20/2016	1405
R1611185-036	Trip Blank	10/19/2016	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41145

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 4

Project Name: ANNUAL WELLS	Project Number: 157045
Project Manager: KEVIN CRONIN	Report CC: CECELIA BYERS
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM, NY 12110	
Phone #: (518) 783-1996	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: BOB URBAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP | GC/MS SVOAs ◦ 8270 ◦ 625 | GC VOAs ◦ 8021 ◦ 601/602 | PESTICIDES ◦ 8081 ◦ 608 | PCBs ◦ 8082 ◦ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs	METALS, TOTAL	REMARKS/ ALTERNATE DESCRIPTION
BAT-EW-2-161019		10/19/16	1015	W	X		QC
BAT-EW-3-161019			1035				
BAT-EW-4-161019			1045				
BAT-EW-5-161019			1100				
BAT-EW-6-161019			1125				
BAT-~~EW~~93-03(1)-161019			1145				
BAT-89-04(1)-161019			1245				
BAT-87-22(1)-161019			1310				
DUP #1			—				
BAT-87-21(1)-161019			1345				
BAT-87-19(1)-161019			1405				

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____Yes ____No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	
Printed Name: BOB URBAN	Printed Name: Daniel Hall	Printed Name:	Printed Name:	Printed Name:	
Firm: AECOM	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 10/20/16 1640	Date/Time: 10/20/16 1645	Date/Time:	Date/Time:	Date/Time:	Date/Time:

R1611185 5
CB&I Environmental & Infrastructure
Textron Wheatfield-Annual Wells

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41147

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

Project Name: ANNUAL WELLS	Project Number: 156045
Project Manager: KEVIN CROWLEY	Report CC: CECELIA. BYERS
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM NY 12110	
Phone #: (518) 783-1996	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: BOB CLARK

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ○ 8260 ○ 624 ○ CLP | GC/MS SVOAs ○ 8270 ○ 625 | GC VOAs ○ 8021 ○ 601/602 | PESTICIDES ○ 8081 ○ 608 | PCBs ○ 8082 ○ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | REMARKS/ ALTERNATE DESCRIPTION

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs	METALS, TOTAL	REMARKS/ ALTERNATE DESCRIPTION
BAT-87-200)-161019		10/16/19	1420	W	X		
BAT-87-206)-161019			1425	W			
BAT-89-140)-161019			—	—			DUP
BAT-89-140)-161019			1500	W			
~~BAT-87-166)-161019~~			—	—			
BAT-EW-7 161019			1515	W			
BAT-EW-13 161019			1530				
BAT-EW-8 161019			1545				
BAT-FB-1 161019			1550				
BAT-87-010) 161019			1605				
BAT-~~87~~ DW-12-161019		↓	1630	↓	↓		

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____Yes ____No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	
Printed Name: BOB CLARK	Printed Name: Daniel Mirc	Printed Name:	Printed Name:	Printed Name:	
Firm: ALS	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 10/20/16 1440	Date/Time: 10/20/16 11645	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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CB&I Environmental & Infrastructure
Textron Wheatfield-Annual Wells

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41143

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 3 OF 4

Project Name: ANNUAL WELLS	Project Number: 156045
Project Manager: KEVIN CRONIN	Report CC: CECILIA BYERS
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM, NY	
Phone #: (518) 783-1996	Email: CECILIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: BOB CRAWFORD

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ○ 8260 ○ 624 ○ CLP | GC/MS SVOAs ○ 8270 ○ 625 | GC VOAs ○ 8021 ○ 601/602 | PESTICIDES ○ 8081 ○ 608 | PCBs ○ 8082 ○ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | REMARKS/ ALTERNATE DESCRIPTION

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	METALS, TOTAL
BAT-87-02(1)-161020		10/20/16	0950	W	X
BAT-87-02(3)-161020			0940		
BAT-87-06(1)-161020			1010		
BAT-~~87~~ DW-11-161020			1040		
BAT-FB-2-161020			1030		
BAT-B-14(1)-161020			1110		
BAT-87-13(3)-161020			1145		
BAT-DW-10-161020			1200		
BAT-89-15(1)-161020			1215		
BAT-87-14(1)-161020			1245		
BAT-DUP-2-161020					

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____Yes _____No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	
Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:	
Firm:	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 10/20/16 1440	Date/Time: 10/20/16 1648	Date/Time:	Date/Time:	Date/Time:	

R1611185 5
CB&I Environmental & Infrastructure
Textron Wheatfield-Annual Wells

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

40456

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 4 OF 4

Project Name: AUNWAR WELLS	Project Number:
Project Manager: KEVIN CRONIN	Report CC:
Company/Address: CB & I	
Phone #	Email
Sampler's Signature	Sampler's Printed Name: BOB CHASE

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ○ 8260 ○ 624 ○ CLP | GC/MS SVOAs ○ 8270 ○ 625 | GC VOAs ○ 8021 ○ 601/602 | PESTICIDES ○ 8081 ○ 608 | PCBs ○ 8082 ○ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs	GC/MS SVOAs	GC VOAs	PESTICIDES	PCBs	METALS, TOTAL	METALS, DISSOLVED	REMARKS/ ALTERNATE DESCRIPTION
BAT-BT-08(4)-161020		10/20/16	1305	W		X							MS/MSD
BAT-DW-9-161020			1315										
BAT-B-8(2)-161020			1330										
BAT-B-17(1)-161020			1405										
T-13				W									

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____Yes ____No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: BOB CHASE	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	
Firm: AECOM	Firm: ALS	Firm	Firm	Firm	
Date/Time: 10/20/16 1440	Date/Time: 10/20/16 1645	Date/Time	Date/Time	Date/Time	Date/Time

R1611185 5
CB&I Environmental & Infrastructure
Textron Wheatfield-Annual Wells

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Cooler Receipt and Preservation Check Form

Project/Client CB+I Folder Number L1611185

Cooler received on 10/20/16 by: DHW

COURIER: ~~ALS~~ UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y ~~N~~	5a	**Perchlorate** samples have required headspace?	Y N ~~NA~~
2	**Custody papers** properly completed (ink, signed)?	~~Y~~ N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y ~~N~~ NA
3	Did all bottles arrive in good **condition** (unbroken)?	~~Y~~ N	6	Where did the bottles originate?	~~ALS~~/ROC CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	~~Y~~ N	7	Soil VOA received as: Bulk Encore 5035set	~~NA~~

8. Temperature Readings Date: 10/20/16 Time: 1714 ID: ~~IR#7~~ IR#8 From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	2.1°	3.3°					
Correction Factor (°C)	-0.0°	-0.0°					
Corrected Temp (°C)	2.1°	3.3°					
Within 0-6°C?	~~Y~~ N	~~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

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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-007 by DHW on 10/20/16 at 1714

5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 10/21/16 Time: 1224 by: ~~AD~~

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES	~~NO~~
2.	Did all bottle labels and tags agree with custody papers?	~~YES~~	NO
3.	Were correct containers used for the tests indicated?	~~YES~~	NO
4.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES	NO
5.	Air Samples: Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated

~~N/A~~ / ~~N/A~~

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4/15022	10/17				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 6-145-002

Other Comments:

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

PC Secondary Review: MM 10/24/16 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1611185-001.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1534	In Lab / KRUEST	
R1611185-001.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1236	In Lab / KRUEST	
		10/26/2016	1307	R-001-S12 / KRUEST	
R1611185-001.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-001.04					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-001.05					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-001.06					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-001.07					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-001.08					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-001.09					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1611185-002.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1535	In Lab / KRUEST	
R1611185-002.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1236	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-002.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-003.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1535	In Lab / KRUEST	
R1611185-003.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-003.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-004.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1535	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
R1611185-004.02					

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-004.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-005.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1535	In Lab / KRUEST	
R1611185-005.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-005.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-006.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1535	In Lab / KRUEST	
R1611185-006.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-006.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-007.01					

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1536	In Lab / KRUEST	
		10/25/2016	1458	In Lab / KRUEST	
R1611185-007.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-007.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-008.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1536	In Lab / KRUEST	
R1611185-008.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-008.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-009.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
R1611185-009.02					

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/26/2016	1236	In Lab / KRUEST	
R1611185-009.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-010.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
R1611185-010.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/26/2016	1236	In Lab / KRUEST	
		10/26/2016	1307	R-001-S12 / KRUEST	
R1611185-010.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-011.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
R1611185-011.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-011.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	

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Internal Chain of Custody Report

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1611185-012.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
		10/26/2016	1617	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-012.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-012.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-013.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-013.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-013.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-014.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1236	In Lab / KRUEST	

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/26/2016	1307	R-001-S12 / KRUEST	
R1611185-014.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-014.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-015.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
		10/26/2016	1616	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-015.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-015.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-016.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
		10/26/2016	1616	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-016.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-016.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-017.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1636	R-001-S12 / KRUEST	
		10/26/2016	1616	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-017.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-017.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-018.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1637	R-001-S12 / KRUEST	
R1611185-018.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/25/2016	1458	In Lab / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-018.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-019.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1637	R-001-S12 / KRUEST	

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/26/2016	1616	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-019.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-019.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-020.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1637	R-001-S12 / KRUEST	
		10/25/2016	1458	In Lab / KRUEST	
		10/25/2016	1532	R-001-S12 / KRUEST	
		10/26/2016	1235	In Lab / KRUEST	
		10/26/2016	1306	R-001-S12 / KRUEST	
R1611185-020.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-020.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-021.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1631	In Lab / KRUEST	
		10/24/2016	1637	R-001-S12 / KRUEST	
		10/26/2016	1617	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-021.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	

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Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1611185-021.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-022.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/26/2016	1615	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-022.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-022.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-023.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/26/2016	1615	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-023.02					
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/21/2016	1223	R-001 / ROCHESTER SMO	
R1611185-023.03					
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/21/2016	1223	R-001 / ROCHESTER SMO	
R1611185-024.01					
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1624	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1611185-024.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-024.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-025.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/26/2016	1615	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-025.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-025.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-026.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1624	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-026.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-026.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-027.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1624	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-027.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-027.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-028.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1624	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-028.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-028.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-029.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1624	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	

Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1611185-029.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-029.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-030.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/26/2016	1615	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-030.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-030.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-031.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1623	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-031.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-031.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.01					

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Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C,8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-032.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/26/2016	1617	In Lab / KRUEST	
R1611185-032.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.04					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.05					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.06					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.07					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.08					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-032.09					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
R1611185-033.01					

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Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1623	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-033.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-033.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-034.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1623	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-034.02					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-034.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-035.01					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/27/2016	1623	In Lab / KRUEST	
		10/27/2016	1720	R-001-S12 / KRUEST	
R1611185-035.02					

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Client: CB&I Environmental & Infrastructure **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/28/2016	1437	In Lab / KRUEST	
		10/28/2016	1619	R-001-S12 / KRUEST	
R1611185-035.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-036.01					
	8260C				
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
		10/24/2016	1533	R-001-S12 / KRUEST	
		10/26/2016	1615	In Lab / KRUEST	
		10/26/2016	1625	R-001-S12 / KRUEST	
R1611185-036.02					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	
R1611185-036.03					
		10/21/2016	1223	R-001 / ROCHESTER SMO	
		10/21/2016	1223	SMO / ROCHESTER SMO	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
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).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs 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 http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

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.

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-EW-2-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-001 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-EW-3-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-002 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-EW-4-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-003 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-EW-5-101619 **Date Collected:** 10/19/16
Lab Code: R1611185-004 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-EW-6-101619 **Date Collected:** 10/19/16
Lab Code: R1611185-005 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-93-03(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-006 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-89-04(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-007 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-22(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-008 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: DUP #1 **Date Collected:** 10/19/16
Lab Code: R1611185-009 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-21(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-010 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-87-19(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-011 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-20(1)-101619 **Date Collected:** 10/19/16
Lab Code: R1611185-012 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-20(0)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-013 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-89-14(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-014 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-EW-7-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-015 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-EW-13-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-016 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-EW-8-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-017 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-FB-1-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-018 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-01(1)-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-019 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-DW-12-161019 **Date Collected:** 10/19/16
Lab Code: R1611185-020 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-87-02(1)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-021 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-02(3)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-022 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-10(0)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-023 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-DW-11-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-024 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-FB-2-101620 **Date Collected:** 10/20/16
Lab Code: R1611185-025 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-B-14(1)-101620 **Date Collected:** 10/20/16
Lab Code: R1611185-026 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-13(3)-101620 **Date Collected:** 10/20/16
Lab Code: R1611185-027 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-DW-10-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-028 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-89-15(1)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-029 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-14(0)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-030 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045

Sample Name: BAT-DUP-2-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-031 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-87-08(1)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-032 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-DW-9-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-033 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-B-8(0)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-034 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: BAT-B-17(1)-161020 **Date Collected:** 10/20/16
Lab Code: R1611185-035 **Date Received:** 10/20/16
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Analyst Summary report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045		

Sample Name:	Trip Blank	**Date Collected:**	10/19/16
Lab Code:	R1611185-036	**Date Received:**	10/20/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

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
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

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-2-161019	**Units:**	ug/L
Lab Code:	R1611185-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 16:23	
Vinyl Chloride	**200**	1.0	0.32	1	10/24/16 16:23	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 16:23	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 16:23	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/24/16 16:23	
Acetone	5.0 U	5.0	1.3	1	10/24/16 16:23	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/24/16 16:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 16:23	
trans-1,2-Dichloroethene	**2.9**	1.0	0.33	1	10/24/16 16:23	
1,1-Dichloroethane	**13**	1.0	0.20	1	10/24/16 16:23	
cis-1,2-Dichloroethene	**280 E**	1.0	0.30	1	10/24/16 16:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 16:23	
Chloroform	**0.65 J**	1.0	0.25	1	10/24/16 16:23	
1,1,1-Trichloroethane	**21**	1.0	0.36	1	10/24/16 16:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 16:23	
Benzene	1.0 U	1.0	0.20	1	10/24/16 16:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 16:23	
Trichloroethene	**7.7**	1.0	0.22	1	10/24/16 16:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 16:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 16:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 16:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 16:23	
Toluene	1.0 U	1.0	0.20	1	10/24/16 16:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 16:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 16:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 16:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 16:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 16:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 16:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 16:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 16:23	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 16:23	
Styrene	1.0 U	1.0	0.20	1	10/24/16 16:23	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 16:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 16:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/24/16 16:23	
Toluene-d8	111	87 - 121	10/24/16 16:23	
Dibromofluoromethane	107	89 - 119	10/24/16 16:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-2-161019	**Units:**	ug/L
Lab Code:	R1611185-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 17:24	
Vinyl Chloride	**160 D**	2.0	0.64	2	10/26/16 17:24	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 17:24	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 17:24	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	10/26/16 17:24	
Acetone	**3.6 DJ**	10	2.5	2	10/26/16 17:24	
Carbon Disulfide	**0.66 DJ**	2.0	0.44	2	10/26/16 17:24	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 17:24	
trans-1,2-Dichloroethene	**2.7 D**	2.0	0.66	2	10/26/16 17:24	
1,1-Dichloroethane	**10 D**	2.0	0.40	2	10/26/16 17:24	
cis-1,2-Dichloroethene	**250 D**	2.0	0.60	2	10/26/16 17:24	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 17:24	
Chloroform	**0.90 DJ**	2.0	0.50	2	10/26/16 17:24	
1,1,1-Trichloroethane	**18 D**	2.0	0.72	2	10/26/16 17:24	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 17:24	
Benzene	2.0 U	2.0	0.40	2	10/26/16 17:24	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 17:24	
Trichloroethene	**7.1 D**	2.0	0.44	2	10/26/16 17:24	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 17:24	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 17:24	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 17:24	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 17:24	
Toluene	2.0 U	2.0	0.40	2	10/26/16 17:24	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 17:24	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 17:24	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 17:24	
2-Hexanone	10 U	10	3.4	2	10/26/16 17:24	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 17:24	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 17:24	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 17:24	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 17:24	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 17:24	
Styrene	2.0 U	2.0	0.40	2	10/26/16 17:24	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 17:24	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 17:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 17:24	
Toluene-d8	112	87 - 121	10/26/16 17:24	
Dibromofluoromethane	109	89 - 119	10/26/16 17:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:35
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-3-161019	**Units:**	ug/L
Lab Code:	R1611185-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10	U	10	2.1	10	10/26/16 15:24	
Vinyl Chloride	**720**		10	3.2	10	10/26/16 15:24	
Chloroethane	10	U	10	2.4	10	10/26/16 15:24	
Bromomethane	10	U	10	2.9	10	10/26/16 15:24	
1,1-Dichloroethene	10	U	10	5.7	10	10/26/16 15:24	
Acetone	50	U	50	13	10	10/26/16 15:24	
Carbon Disulfide	10	U	10	2.2	10	10/26/16 15:24	
Methylene Chloride	10	U	10	6.0	10	10/26/16 15:24	
trans-1,2-Dichloroethene	**10**		10	3.3	10	10/26/16 15:24	
1,1-Dichloroethane	**13**		10	2.0	10	10/26/16 15:24	
cis-1,2-Dichloroethene	**1600**		10	3.0	10	10/26/16 15:24	
2-Butanone (MEK)	50	U	50	8.2	10	10/26/16 15:24	
Chloroform	10	U	10	2.5	10	10/26/16 15:24	
1,1,1-Trichloroethane	**17**		10	3.6	10	10/26/16 15:24	
Carbon Tetrachloride	10	U	10	4.5	10	10/26/16 15:24	
Benzene	10	U	10	2.0	10	10/26/16 15:24	
1,2-Dichloroethane	10	U	10	3.6	10	10/26/16 15:24	
Trichloroethene	**4.6**	**J**	10	2.2	10	10/26/16 15:24	
1,2-Dichloropropane	10	U	10	2.0	10	10/26/16 15:24	
Bromodichloromethane	10	U	10	3.2	10	10/26/16 15:24	
cis-1,3-Dichloropropene	10	U	10	2.4	10	10/26/16 15:24	
4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	10	10/26/16 15:24	
Toluene	10	U	10	2.0	10	10/26/16 15:24	
trans-1,3-Dichloropropene	10	U	10	2.0	10	10/26/16 15:24	
1,1,2-Trichloroethane	10	U	10	3.4	10	10/26/16 15:24	
Tetrachloroethene	10	U	10	3.0	10	10/26/16 15:24	
2-Hexanone	50	U	50	17	10	10/26/16 15:24	
Dibromochloromethane	10	U	10	3.1	10	10/26/16 15:24	
Chlorobenzene	10	U	10	2.9	10	10/26/16 15:24	
Ethylbenzene	10	U	10	2.0	10	10/26/16 15:24	
m,p-Xylenes	20	U	20	3.3	10	10/26/16 15:24	
o-Xylene	10	U	10	2.0	10	10/26/16 15:24	
Styrene	10	U	10	2.0	10	10/26/16 15:24	
Bromoform	10	U	10	4.2	10	10/26/16 15:24	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	10/26/16 15:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:35
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-3-161019	**Units:**	ug/L
Lab Code:	R1611185-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 15:24	
Toluene-d8	112	87 - 121	10/26/16 15:24	
Dibromofluoromethane	109	89 - 119	10/26/16 15:24	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-4-161019	**Units:**	ug/L
Lab Code:	R1611185-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 11:22	
Vinyl Chloride	**50**	1.0	0.32	1	10/26/16 11:22	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 11:22	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 11:22	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 11:22	
Acetone	5.0 U	5.0	1.3	1	10/26/16 11:22	
Carbon Disulfide	**0.61 J**	1.0	0.22	1	10/26/16 11:22	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 11:22	
trans-1,2-Dichloroethene	**1.9**	1.0	0.33	1	10/26/16 11:22	
1,1-Dichloroethane	**1.6**	1.0	0.20	1	10/26/16 11:22	
cis-1,2-Dichloroethene	**39**	1.0	0.30	1	10/26/16 11:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 11:22	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 11:22	
1,1,1-Trichloroethane	**0.93 J**	1.0	0.36	1	10/26/16 11:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 11:22	
Benzene	1.0 U	1.0	0.20	1	10/26/16 11:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 11:22	
Trichloroethene	**0.71 J**	1.0	0.22	1	10/26/16 11:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 11:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 11:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 11:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 11:22	
Toluene	1.0 U	1.0	0.20	1	10/26/16 11:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 11:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 11:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 11:22	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 11:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 11:22	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 11:22	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 11:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 11:22	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 11:22	
Styrene	1.0 U	1.0	0.20	1	10/26/16 11:22	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 11:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 11:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-4-161019	**Units:**	ug/L
Lab Code:	R1611185-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	10/26/16 11:22	
Toluene-d8	111	87 - 121	10/26/16 11:22	
Dibromofluoromethane	110	89 - 119	10/26/16 11:22	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-5-101619	**Units:**	ug/L
Lab Code:	R1611185-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 17:23	
Vinyl Chloride	**290 E**	1.0	0.32	1	10/24/16 17:23	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 17:23	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 17:23	
1,1-Dichloroethene	**2.0**	1.0	0.57	1	10/24/16 17:23	
Acetone	**5.8**	5.0	1.3	1	10/24/16 17:23	
Carbon Disulfide	**0.31 J**	1.0	0.22	1	10/24/16 17:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 17:23	
trans-1,2-Dichloroethene	**4.1**	1.0	0.33	1	10/24/16 17:23	
1,1-Dichloroethane	**10**	1.0	0.20	1	10/24/16 17:23	
cis-1,2-Dichloroethene	**590 E**	1.0	0.30	1	10/24/16 17:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 17:23	
Chloroform	**0.53 J**	1.0	0.25	1	10/24/16 17:23	
1,1,1-Trichloroethane	**15**	1.0	0.36	1	10/24/16 17:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 17:23	
Benzene	1.0 U	1.0	0.20	1	10/24/16 17:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 17:23	
Trichloroethene	**4.9**	1.0	0.22	1	10/24/16 17:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 17:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 17:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 17:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 17:23	
Toluene	1.0 U	1.0	0.20	1	10/24/16 17:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 17:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 17:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 17:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 17:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 17:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 17:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 17:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 17:23	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 17:23	
Styrene	1.0 U	1.0	0.20	1	10/24/16 17:23	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 17:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 17:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/24/16 17:23	
Toluene-d8	114	87 - 121	10/24/16 17:23	
Dibromofluoromethane	109	89 - 119	10/24/16 17:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-5-101619	**Units:**	ug/L
Lab Code:	R1611185-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/26/16 14:23	
Vinyl Chloride	**210 D**	5.0	1.6	5	10/26/16 14:23	
Chloroethane	5.0 U	5.0	1.2	5	10/26/16 14:23	
Bromomethane	5.0 U	5.0	1.5	5	10/26/16 14:23	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	10/26/16 14:23	
Acetone	**12 DJ**	25	6.2	5	10/26/16 14:23	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/26/16 14:23	
Methylene Chloride	5.0 U	5.0	3.0	5	10/26/16 14:23	
trans-1,2-Dichloroethene	**4.4 DJ**	5.0	1.7	5	10/26/16 14:23	
1,1-Dichloroethane	**9.9 D**	5.0	1.0	5	10/26/16 14:23	
cis-1,2-Dichloroethene	**530 D**	5.0	1.5	5	10/26/16 14:23	
2-Butanone (MEK)	25 U	25	4.1	5	10/26/16 14:23	
Chloroform	**1.3 DJ**	5.0	1.3	5	10/26/16 14:23	
1,1,1-Trichloroethane	**12 D**	5.0	1.8	5	10/26/16 14:23	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/26/16 14:23	
Benzene	5.0 U	5.0	1.0	5	10/26/16 14:23	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/26/16 14:23	
Trichloroethene	**4.8 DJ**	5.0	1.1	5	10/26/16 14:23	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/26/16 14:23	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/26/16 14:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/26/16 14:23	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/26/16 14:23	
Toluene	5.0 U	5.0	1.0	5	10/26/16 14:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/26/16 14:23	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/26/16 14:23	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/26/16 14:23	
2-Hexanone	25 U	25	8.3	5	10/26/16 14:23	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/26/16 14:23	
Chlorobenzene	5.0 U	5.0	1.5	5	10/26/16 14:23	
Ethylbenzene	5.0 U	5.0	1.0	5	10/26/16 14:23	
m,p-Xylenes	10 U	10	1.7	5	10/26/16 14:23	
o-Xylene	5.0 U	5.0	1.0	5	10/26/16 14:23	
Styrene	5.0 U	5.0	1.0	5	10/26/16 14:23	
Bromoform	5.0 U	5.0	2.1	5	10/26/16 14:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/26/16 14:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 14:23	
Toluene-d8	107	87 - 121	10/26/16 14:23	
Dibromofluoromethane	116	89 - 119	10/26/16 14:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-6-101619	**Units:**	ug/L
Lab Code:	R1611185-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 11:52	
Vinyl Chloride	**0.48 J**	1.0	0.32	1	10/26/16 11:52	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 11:52	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 11:52	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 11:52	
Acetone	5.0 U	5.0	1.3	1	10/26/16 11:52	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 11:52	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 11:52	
trans-1,2-Dichloroethene	**1.6**	1.0	0.33	1	10/26/16 11:52	
1,1-Dichloroethane	**3.6**	1.0	0.20	1	10/26/16 11:52	
cis-1,2-Dichloroethene	**69**	1.0	0.30	1	10/26/16 11:52	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 11:52	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 11:52	
1,1,1-Trichloroethane	**1.6**	1.0	0.36	1	10/26/16 11:52	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 11:52	
Benzene	1.0 U	1.0	0.20	1	10/26/16 11:52	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 11:52	
Trichloroethene	**1.1**	1.0	0.22	1	10/26/16 11:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 11:52	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 11:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 11:52	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 11:52	
Toluene	1.0 U	1.0	0.20	1	10/26/16 11:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 11:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 11:52	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 11:52	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 11:52	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 11:52	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 11:52	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 11:52	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 11:52	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 11:52	
Styrene	1.0 U	1.0	0.20	1	10/26/16 11:52	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 11:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 11:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-6-101619	**Units:**	ug/L
Lab Code:	R1611185-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 11:52	
Toluene-d8	113	87 - 121	10/26/16 11:52	
Dibromofluoromethane	110	89 - 119	10/26/16 11:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-93-03(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 18:23	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/24/16 18:23	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 18:23	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 18:23	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/24/16 18:23	
Acetone	5.0 U	5.0	1.3	1	10/24/16 18:23	
Carbon Disulfide	**0.23 J**	1.0	0.22	1	10/24/16 18:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 18:23	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/24/16 18:23	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/24/16 18:23	
cis-1,2-Dichloroethene	**0.90 J**	1.0	0.30	1	10/24/16 18:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 18:23	
Chloroform	1.0 U	1.0	0.25	1	10/24/16 18:23	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/24/16 18:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 18:23	
Benzene	1.0 U	1.0	0.20	1	10/24/16 18:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 18:23	
Trichloroethene	1.0 U	1.0	0.22	1	10/24/16 18:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 18:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 18:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 18:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 18:23	
Toluene	1.0 U	1.0	0.20	1	10/24/16 18:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 18:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 18:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 18:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 18:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 18:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 18:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 18:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 18:23	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 18:23	
Styrene	1.0 U	1.0	0.20	1	10/24/16 18:23	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 18:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-93-03(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/24/16 18:23	
Toluene-d8	112	87 - 121	10/24/16 18:23	
Dibromofluoromethane	107	89 - 119	10/24/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-04(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 12:22	
Vinyl Chloride	**0.40 J**	1.0	0.32	1	10/26/16 12:22	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 12:22	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 12:22	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 12:22	
Acetone	**1.9 J**	5.0	1.3	1	10/26/16 12:22	
Carbon Disulfide	**11**	1.0	0.22	1	10/26/16 12:22	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 12:22	
trans-1,2-Dichloroethene	**0.41 J**	1.0	0.33	1	10/26/16 12:22	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 12:22	
cis-1,2-Dichloroethene	**2.1**	1.0	0.30	1	10/26/16 12:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 12:22	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 12:22	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 12:22	
Benzene	1.0 U	1.0	0.20	1	10/26/16 12:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:22	
Trichloroethene	**1.4**	1.0	0.22	1	10/26/16 12:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 12:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 12:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 12:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 12:22	
Toluene	1.0 U	1.0	0.20	1	10/26/16 12:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 12:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 12:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 12:22	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 12:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 12:22	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 12:22	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 12:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 12:22	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 12:22	
Styrene	1.0 U	1.0	0.20	1	10/26/16 12:22	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 12:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 12:22	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-04(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 12:22	
Toluene-d8	113	87 - 121	10/26/16 12:22	
Dibromofluoromethane	111	89 - 119	10/26/16 12:22	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-22(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/24/16 18:53	
Vinyl Chloride	**430**	5.0	1.6	5	10/24/16 18:53	
Chloroethane	5.0 U	5.0	1.2	5	10/24/16 18:53	
Bromomethane	5.0 U	5.0	1.5	5	10/24/16 18:53	
1,1-Dichloroethene	**4.9 J**	5.0	2.9	5	10/24/16 18:53	
Acetone	**6.4 J**	25	6.2	5	10/24/16 18:53	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/24/16 18:53	
Methylene Chloride	5.0 U	5.0	3.0	5	10/24/16 18:53	
trans-1,2-Dichloroethene	**7.3**	5.0	1.7	5	10/24/16 18:53	
1,1-Dichloroethane	**5.4**	5.0	1.0	5	10/24/16 18:53	
cis-1,2-Dichloroethene	**1500 E**	5.0	1.5	5	10/24/16 18:53	
2-Butanone (MEK)	25 U	25	4.1	5	10/24/16 18:53	
Chloroform	**1.3 J**	5.0	1.3	5	10/24/16 18:53	
1,1,1-Trichloroethane	5.0 U	5.0	1.8	5	10/24/16 18:53	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/24/16 18:53	
Benzene	5.0 U	5.0	1.0	5	10/24/16 18:53	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/24/16 18:53	
Trichloroethene	**5.0 J**	5.0	1.1	5	10/24/16 18:53	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/24/16 18:53	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/24/16 18:53	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/24/16 18:53	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/24/16 18:53	
Toluene	5.0 U	5.0	1.0	5	10/24/16 18:53	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/24/16 18:53	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/24/16 18:53	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/24/16 18:53	
2-Hexanone	25 U	25	8.3	5	10/24/16 18:53	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/24/16 18:53	
Chlorobenzene	5.0 U	5.0	1.5	5	10/24/16 18:53	
Ethylbenzene	5.0 U	5.0	1.0	5	10/24/16 18:53	
m,p-Xylenes	10 U	10	1.7	5	10/24/16 18:53	
o-Xylene	5.0 U	5.0	1.0	5	10/24/16 18:53	
Styrene	5.0 U	5.0	1.0	5	10/24/16 18:53	
Bromoform	5.0 U	5.0	2.1	5	10/24/16 18:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/24/16 18:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85 - 122	10/24/16 18:53	
Toluene-d8	112	87 - 121	10/24/16 18:53	
Dibromofluoromethane	111	89 - 119	10/24/16 18:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-22(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/26/16 14:54	
Vinyl Chloride	**320 D**	10	3.2	10	10/26/16 14:54	
Chloroethane	10 U	10	2.4	10	10/26/16 14:54	
Bromomethane	10 U	10	2.9	10	10/26/16 14:54	
1,1-Dichloroethene	10 U	10	5.7	10	10/26/16 14:54	
Acetone	50 U	50	13	10	10/26/16 14:54	
Carbon Disulfide	10 U	10	2.2	10	10/26/16 14:54	
Methylene Chloride	10 U	10	6.0	10	10/26/16 14:54	
trans-1,2-Dichloroethene	**7.1 DJ**	10	3.3	10	10/26/16 14:54	
1,1-Dichloroethane	**5.2 DJ**	10	2.0	10	10/26/16 14:54	
cis-1,2-Dichloroethene	**1200 D**	10	3.0	10	10/26/16 14:54	
2-Butanone (MEK)	50 U	50	8.2	10	10/26/16 14:54	
Chloroform	**2.5 DJ**	10	2.5	10	10/26/16 14:54	
1,1,1-Trichloroethane	10 U	10	3.6	10	10/26/16 14:54	
Carbon Tetrachloride	10 U	10	4.5	10	10/26/16 14:54	
Benzene	10 U	10	2.0	10	10/26/16 14:54	
1,2-Dichloroethane	10 U	10	3.6	10	10/26/16 14:54	
Trichloroethene	**3.9 DJ**	10	2.2	10	10/26/16 14:54	
1,2-Dichloropropane	10 U	10	2.0	10	10/26/16 14:54	
Bromodichloromethane	10 U	10	3.2	10	10/26/16 14:54	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/26/16 14:54	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/26/16 14:54	
Toluene	10 U	10	2.0	10	10/26/16 14:54	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/26/16 14:54	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/26/16 14:54	
Tetrachloroethene	10 U	10	3.0	10	10/26/16 14:54	
2-Hexanone	50 U	50	17	10	10/26/16 14:54	
Dibromochloromethane	10 U	10	3.1	10	10/26/16 14:54	
Chlorobenzene	10 U	10	2.9	10	10/26/16 14:54	
Ethylbenzene	10 U	10	2.0	10	10/26/16 14:54	
m,p-Xylenes	20 U	20	3.3	10	10/26/16 14:54	
o-Xylene	10 U	10	2.0	10	10/26/16 14:54	
Styrene	10 U	10	2.0	10	10/26/16 14:54	
Bromoform	10 U	10	4.2	10	10/26/16 14:54	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/26/16 14:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 14:54	
Toluene-d8	114	87 - 121	10/26/16 14:54	
Dibromofluoromethane	111	89 - 119	10/26/16 14:54	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	DUP #1	**Units:**	ug/L
Lab Code:	R1611185-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 15:54	
Vinyl Chloride	**320**	2.0	0.64	2	10/26/16 15:54	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 15:54	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 15:54	
1,1-Dichloroethene	**3.0**	2.0	1.2	2	10/26/16 15:54	
Acetone	10 U	10	2.5	2	10/26/16 15:54	
Carbon Disulfide	2.0 U	2.0	0.44	2	10/26/16 15:54	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 15:54	
trans-1,2-Dichloroethene	**6.4**	2.0	0.66	2	10/26/16 15:54	
1,1-Dichloroethane	**4.9**	2.0	0.40	2	10/26/16 15:54	
cis-1,2-Dichloroethene	**1200 E**	2.0	0.60	2	10/26/16 15:54	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 15:54	
Chloroform	2.0 U	2.0	0.50	2	10/26/16 15:54	
1,1,1-Trichloroethane	**0.96 J**	2.0	0.72	2	10/26/16 15:54	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 15:54	
Benzene	2.0 U	2.0	0.40	2	10/26/16 15:54	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 15:54	
Trichloroethene	**3.6**	2.0	0.44	2	10/26/16 15:54	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 15:54	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 15:54	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 15:54	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 15:54	
Toluene	2.0 U	2.0	0.40	2	10/26/16 15:54	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 15:54	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 15:54	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 15:54	
2-Hexanone	10 U	10	3.4	2	10/26/16 15:54	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 15:54	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 15:54	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 15:54	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 15:54	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 15:54	
Styrene	2.0 U	2.0	0.40	2	10/26/16 15:54	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 15:54	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 15:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 15:54	
Toluene-d8	112	87 - 121	10/26/16 15:54	
Dibromofluoromethane	110	89 - 119	10/26/16 15:54	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	DUP #1	**Units:**	ug/L
Lab Code:	R1611185-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/27/16 18:53	
Vinyl Chloride	**430 D**	10	3.2	10	10/27/16 18:53	
Chloroethane	10 U	10	2.4	10	10/27/16 18:53	
Bromomethane	10 U	10	2.9	10	10/27/16 18:53	
1,1-Dichloroethene	10 U	10	5.7	10	10/27/16 18:53	
Acetone	50 U	50	13	10	10/27/16 18:53	
Carbon Disulfide	10 U	10	2.2	10	10/27/16 18:53	
Methylene Chloride	10 U	10	6.0	10	10/27/16 18:53	
trans-1,2-Dichloroethene	**8.5 DJ**	10	3.3	10	10/27/16 18:53	
1,1-Dichloroethane	**6.0 DJ**	10	2.0	10	10/27/16 18:53	
cis-1,2-Dichloroethene	**1600 D**	10	3.0	10	10/27/16 18:53	
2-Butanone (MEK)	50 U	50	8.2	10	10/27/16 18:53	
Chloroform	**3.4 DJ**	10	2.5	10	10/27/16 18:53	
1,1,1-Trichloroethane	10 U	10	3.6	10	10/27/16 18:53	
Carbon Tetrachloride	10 U	10	4.5	10	10/27/16 18:53	
Benzene	10 U	10	2.0	10	10/27/16 18:53	
1,2-Dichloroethane	10 U	10	3.6	10	10/27/16 18:53	
Trichloroethene	**5.1 DJ**	10	2.2	10	10/27/16 18:53	
1,2-Dichloropropane	10 U	10	2.0	10	10/27/16 18:53	
Bromodichloromethane	10 U	10	3.2	10	10/27/16 18:53	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/27/16 18:53	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/27/16 18:53	
Toluene	10 U	10	2.0	10	10/27/16 18:53	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/27/16 18:53	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/27/16 18:53	
Tetrachloroethene	10 U	10	3.0	10	10/27/16 18:53	
2-Hexanone	50 U	50	17	10	10/27/16 18:53	
Dibromochloromethane	10 U	10	3.1	10	10/27/16 18:53	
Chlorobenzene	10 U	10	2.9	10	10/27/16 18:53	
Ethylbenzene	10 U	10	2.0	10	10/27/16 18:53	
m,p-Xylenes	20 U	20	3.3	10	10/27/16 18:53	
o-Xylene	10 U	10	2.0	10	10/27/16 18:53	
Styrene	10 U	10	2.0	10	10/27/16 18:53	
Bromoform	10 U	10	4.2	10	10/27/16 18:53	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/27/16 18:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/27/16 18:53	
Toluene-d8	113	87 - 121	10/27/16 18:53	
Dibromofluoromethane	110	89 - 119	10/27/16 18:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-21(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 16:24	
Vinyl Chloride	**77**	2.0	0.64	2	10/26/16 16:24	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 16:24	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 16:24	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	10/26/16 16:24	
Acetone	**2.7 J**	10	2.5	2	10/26/16 16:24	
Carbon Disulfide	2.0 U	2.0	0.44	2	10/26/16 16:24	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 16:24	
trans-1,2-Dichloroethene	**6.7**	2.0	0.66	2	10/26/16 16:24	
1,1-Dichloroethane	**3.1**	2.0	0.40	2	10/26/16 16:24	
cis-1,2-Dichloroethene	**450 E**	2.0	0.60	2	10/26/16 16:24	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 16:24	
Chloroform	**0.62 J**	2.0	0.50	2	10/26/16 16:24	
1,1,1-Trichloroethane	**3.5**	2.0	0.72	2	10/26/16 16:24	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 16:24	
Benzene	2.0 U	2.0	0.40	2	10/26/16 16:24	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 16:24	
Trichloroethene	**5.4**	2.0	0.44	2	10/26/16 16:24	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 16:24	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 16:24	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 16:24	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 16:24	
Toluene	2.0 U	2.0	0.40	2	10/26/16 16:24	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 16:24	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 16:24	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 16:24	
2-Hexanone	10 U	10	3.4	2	10/26/16 16:24	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 16:24	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 16:24	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 16:24	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 16:24	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 16:24	
Styrene	2.0 U	2.0	0.40	2	10/26/16 16:24	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 16:24	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 16:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 16:24	
Toluene-d8	110	87 - 121	10/26/16 16:24	
Dibromofluoromethane	110	89 - 119	10/26/16 16:24	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-21(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/27/16 16:21	
Vinyl Chloride	**77 D**	10	3.2	10	10/27/16 16:21	
Chloroethane	10 U	10	2.4	10	10/27/16 16:21	
Bromomethane	10 U	10	2.9	10	10/27/16 16:21	
1,1-Dichloroethene	10 U	10	5.7	10	10/27/16 16:21	
Acetone	50 U	50	13	10	10/27/16 16:21	
Carbon Disulfide	10 U	10	2.2	10	10/27/16 16:21	
Methylene Chloride	10 U	10	6.0	10	10/27/16 16:21	
trans-1,2-Dichloroethene	10 U	10	3.3	10	10/27/16 16:21	
1,1-Dichloroethane	**3.4 DJ**	10	2.0	10	10/27/16 16:21	
cis-1,2-Dichloroethene	**460 D**	10	3.0	10	10/27/16 16:21	
2-Butanone (MEK)	50 U	50	8.2	10	10/27/16 16:21	
Chloroform	10 U	10	2.5	10	10/27/16 16:21	
1,1,1-Trichloroethane	**5.1 DJ**	10	3.6	10	10/27/16 16:21	
Carbon Tetrachloride	10 U	10	4.5	10	10/27/16 16:21	
Benzene	10 U	10	2.0	10	10/27/16 16:21	
1,2-Dichloroethane	10 U	10	3.6	10	10/27/16 16:21	
Trichloroethene	**7.0 DJ**	10	2.2	10	10/27/16 16:21	
1,2-Dichloropropane	10 U	10	2.0	10	10/27/16 16:21	
Bromodichloromethane	10 U	10	3.2	10	10/27/16 16:21	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/27/16 16:21	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/27/16 16:21	
Toluene	10 U	10	2.0	10	10/27/16 16:21	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/27/16 16:21	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/27/16 16:21	
Tetrachloroethene	10 U	10	3.0	10	10/27/16 16:21	
2-Hexanone	50 U	50	17	10	10/27/16 16:21	
Dibromochloromethane	10 U	10	3.1	10	10/27/16 16:21	
Chlorobenzene	10 U	10	2.9	10	10/27/16 16:21	
Ethylbenzene	10 U	10	2.0	10	10/27/16 16:21	
m,p-Xylenes	20 U	20	3.3	10	10/27/16 16:21	
o-Xylene	10 U	10	2.0	10	10/27/16 16:21	
Styrene	10 U	10	2.0	10	10/27/16 16:21	
Bromoform	10 U	10	4.2	10	10/27/16 16:21	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/27/16 16:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	10/27/16 16:21	
Toluene-d8	114	87 - 121	10/27/16 16:21	
Dibromofluoromethane	110	89 - 119	10/27/16 16:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-19(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 12:52	
Vinyl Chloride	**1.7**	1.0	0.32	1	10/26/16 12:52	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 12:52	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 12:52	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 12:52	
Acetone	5.0 U	5.0	1.3	1	10/26/16 12:52	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 12:52	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 12:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 12:52	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 12:52	
cis-1,2-Dichloroethene	**5.8**	1.0	0.30	1	10/26/16 12:52	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 12:52	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 12:52	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:52	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 12:52	
Benzene	1.0 U	1.0	0.20	1	10/26/16 12:52	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:52	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 12:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 12:52	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 12:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 12:52	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 12:52	
Toluene	1.0 U	1.0	0.20	1	10/26/16 12:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 12:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 12:52	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 12:52	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 12:52	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 12:52	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 12:52	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 12:52	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 12:52	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 12:52	
Styrene	1.0 U	1.0	0.20	1	10/26/16 12:52	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 12:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 12:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-19(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/26/16 12:52	
Toluene-d8	112	87 - 121	10/26/16 12:52	
Dibromofluoromethane	109	89 - 119	10/26/16 12:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(1)-101619	**Units:**	ug/L
Lab Code:	R1611185-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	10/27/16 20:23	
Vinyl Chloride	**830**	50	16	50	10/27/16 20:23	
Chloroethane	50 U	50	12	50	10/27/16 20:23	
Bromomethane	50 U	50	15	50	10/27/16 20:23	
1,1-Dichloroethene	50 U	50	29	50	10/27/16 20:23	
Acetone	250 U	250	62	50	10/27/16 20:23	
Carbon Disulfide	50 U	50	11	50	10/27/16 20:23	
Methylene Chloride	50 U	50	30	50	10/27/16 20:23	
trans-1,2-Dichloroethene	50 U	50	17	50	10/27/16 20:23	
1,1-Dichloroethane	**18 J**	50	10	50	10/27/16 20:23	
cis-1,2-Dichloroethene	**4700**	50	15	50	10/27/16 20:23	
2-Butanone (MEK)	250 U	250	41	50	10/27/16 20:23	
Chloroform	**18 J**	50	13	50	10/27/16 20:23	
1,1,1-Trichloroethane	**22 J**	50	18	50	10/27/16 20:23	
Carbon Tetrachloride	50 U	50	23	50	10/27/16 20:23	
Benzene	50 U	50	10	50	10/27/16 20:23	
1,2-Dichloroethane	50 U	50	18	50	10/27/16 20:23	
Trichloroethene	**19 J**	50	11	50	10/27/16 20:23	
1,2-Dichloropropane	50 U	50	10	50	10/27/16 20:23	
Bromodichloromethane	50 U	50	16	50	10/27/16 20:23	
cis-1,3-Dichloropropene	50 U	50	12	50	10/27/16 20:23	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	10/27/16 20:23	
Toluene	50 U	50	10	50	10/27/16 20:23	
trans-1,3-Dichloropropene	50 U	50	10	50	10/27/16 20:23	
1,1,2-Trichloroethane	50 U	50	17	50	10/27/16 20:23	
Tetrachloroethene	50 U	50	15	50	10/27/16 20:23	
2-Hexanone	250 U	250	83	50	10/27/16 20:23	
Dibromochloromethane	50 U	50	16	50	10/27/16 20:23	
Chlorobenzene	50 U	50	15	50	10/27/16 20:23	
Ethylbenzene	50 U	50	10	50	10/27/16 20:23	
m,p-Xylenes	100 U	100	17	50	10/27/16 20:23	
o-Xylene	50 U	50	10	50	10/27/16 20:23	
Styrene	50 U	50	10	50	10/27/16 20:23	
Bromoform	50 U	50	21	50	10/27/16 20:23	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	10/27/16 20:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(1)-101619	**Units:**	ug/L
Lab Code:	R1611185-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 20:23	
Toluene-d8	114	87 - 121	10/27/16 20:23	
Dibromofluoromethane	109	89 - 119	10/27/16 20:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(0)-161019	**Units:**	ug/L
Lab Code:	R1611185-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 13:22	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/26/16 13:22	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 13:22	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 13:22	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 13:22	
Acetone	**1.4 J**	5.0	1.3	1	10/26/16 13:22	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 13:22	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 13:22	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 13:22	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 13:22	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/26/16 13:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 13:22	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 13:22	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 13:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 13:22	
Benzene	1.0 U	1.0	0.20	1	10/26/16 13:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 13:22	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 13:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 13:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 13:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 13:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 13:22	
Toluene	1.0 U	1.0	0.20	1	10/26/16 13:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 13:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 13:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 13:22	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 13:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 13:22	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 13:22	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 13:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 13:22	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 13:22	
Styrene	1.0 U	1.0	0.20	1	10/26/16 13:22	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 13:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 13:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(0)-161019	**Units:**	ug/L
Lab Code:	R1611185-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/26/16 13:22	
Toluene-d8	108	87 - 121	10/26/16 13:22	
Dibromofluoromethane	109	89 - 119	10/26/16 13:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-14(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 16:54	
Vinyl Chloride	**250**	2.0	0.64	2	10/26/16 16:54	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 16:54	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 16:54	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	10/26/16 16:54	
Acetone	**3.9 J**	10	2.5	2	10/26/16 16:54	
Carbon Disulfide	**0.80 J**	2.0	0.44	2	10/26/16 16:54	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 16:54	
trans-1,2-Dichloroethene	**2.3**	2.0	0.66	2	10/26/16 16:54	
1,1-Dichloroethane	**20**	2.0	0.40	2	10/26/16 16:54	
cis-1,2-Dichloroethene	**130**	2.0	0.60	2	10/26/16 16:54	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 16:54	
Chloroform	2.0 U	2.0	0.50	2	10/26/16 16:54	
1,1,1-Trichloroethane	**2.0 J**	2.0	0.72	2	10/26/16 16:54	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 16:54	
Benzene	2.0 U	2.0	0.40	2	10/26/16 16:54	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 16:54	
Trichloroethene	**1.7 J**	2.0	0.44	2	10/26/16 16:54	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 16:54	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 16:54	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 16:54	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 16:54	
Toluene	2.0 U	2.0	0.40	2	10/26/16 16:54	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 16:54	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 16:54	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 16:54	
2-Hexanone	10 U	10	3.4	2	10/26/16 16:54	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 16:54	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 16:54	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 16:54	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 16:54	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 16:54	
Styrene	2.0 U	2.0	0.40	2	10/26/16 16:54	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 16:54	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 16:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-14(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/26/16 16:54	
Toluene-d8	111	87 - 121	10/26/16 16:54	
Dibromofluoromethane	111	89 - 119	10/26/16 16:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-7-161019	**Units:**	ug/L
Lab Code:	R1611185-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0	U	5.0	1.1	5	10/27/16 16:51	
Vinyl Chloride	**490**		5.0	1.6	5	10/27/16 16:51	
Chloroethane	5.0	U	5.0	1.2	5	10/27/16 16:51	
Bromomethane	5.0	U	5.0	1.5	5	10/27/16 16:51	
1,1-Dichloroethene	5.0	U	5.0	2.9	5	10/27/16 16:51	
Acetone	25	U	25	6.2	5	10/27/16 16:51	
Carbon Disulfide	**1.5**	**J**	5.0	1.1	5	10/27/16 16:51	
Methylene Chloride	**16**		5.0	3.0	5	10/27/16 16:51	
trans-1,2-Dichloroethene	**4.0**	**J**	5.0	1.7	5	10/27/16 16:51	
1,1-Dichloroethane	**23**		5.0	1.0	5	10/27/16 16:51	
cis-1,2-Dichloroethene	**690**		5.0	1.5	5	10/27/16 16:51	
2-Butanone (MEK)	25	U	25	4.1	5	10/27/16 16:51	
Chloroform	5.0	U	5.0	1.3	5	10/27/16 16:51	
1,1,1-Trichloroethane	**51**		5.0	1.8	5	10/27/16 16:51	
Carbon Tetrachloride	5.0	U	5.0	2.3	5	10/27/16 16:51	
Benzene	5.0	U	5.0	1.0	5	10/27/16 16:51	
1,2-Dichloroethane	5.0	U	5.0	1.8	5	10/27/16 16:51	
Trichloroethene	**6.4**		5.0	1.1	5	10/27/16 16:51	
1,2-Dichloropropane	5.0	U	5.0	1.0	5	10/27/16 16:51	
Bromodichloromethane	5.0	U	5.0	1.6	5	10/27/16 16:51	
cis-1,3-Dichloropropene	5.0	U	5.0	1.2	5	10/27/16 16:51	
4-Methyl-2-pentanone (MIBK)	25	U	25	3.4	5	10/27/16 16:51	
Toluene	5.0	U	5.0	1.0	5	10/27/16 16:51	
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	5	10/27/16 16:51	
1,1,2-Trichloroethane	5.0	U	5.0	1.7	5	10/27/16 16:51	
Tetrachloroethene	5.0	U	5.0	1.5	5	10/27/16 16:51	
2-Hexanone	25	U	25	8.3	5	10/27/16 16:51	
Dibromochloromethane	5.0	U	5.0	1.6	5	10/27/16 16:51	
Chlorobenzene	5.0	U	5.0	1.5	5	10/27/16 16:51	
Ethylbenzene	5.0	U	5.0	1.0	5	10/27/16 16:51	
m,p-Xylenes	10	U	10	1.7	5	10/27/16 16:51	
o-Xylene	5.0	U	5.0	1.0	5	10/27/16 16:51	
Styrene	5.0	U	5.0	1.0	5	10/27/16 16:51	
Bromoform	5.0	U	5.0	2.1	5	10/27/16 16:51	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.3	5	10/27/16 16:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-7-161019	**Units:**	ug/L
Lab Code:	R1611185-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 16:51	
Toluene-d8	111	87 - 121	10/27/16 16:51	
Dibromofluoromethane	112	89 - 119	10/27/16 16:51	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-13-161019	**Units:**	ug/L
Lab Code:	R1611185-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/27/16 17:23	
Vinyl Chloride	**550**	5.0	1.6	5	10/27/16 17:23	
Chloroethane	5.0 U	5.0	1.2	5	10/27/16 17:23	
Bromomethane	5.0 U	5.0	1.5	5	10/27/16 17:23	
1,1-Dichloroethene	**3.2 J**	5.0	2.9	5	10/27/16 17:23	
Acetone	25 U	25	6.2	5	10/27/16 17:23	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/27/16 17:23	
Methylene Chloride	5.0 U	5.0	3.0	5	10/27/16 17:23	
trans-1,2-Dichloroethene	**4.6 J**	5.0	1.7	5	10/27/16 17:23	
1,1-Dichloroethane	**28**	5.0	1.0	5	10/27/16 17:23	
cis-1,2-Dichloroethene	**650**	5.0	1.5	5	10/27/16 17:23	
2-Butanone (MEK)	25 U	25	4.1	5	10/27/16 17:23	
Chloroform	**2.4 J**	5.0	1.3	5	10/27/16 17:23	
1,1,1-Trichloroethane	**66**	5.0	1.8	5	10/27/16 17:23	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/27/16 17:23	
Benzene	5.0 U	5.0	1.0	5	10/27/16 17:23	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/27/16 17:23	
Trichloroethene	**4.5 J**	5.0	1.1	5	10/27/16 17:23	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/27/16 17:23	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/27/16 17:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/27/16 17:23	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/27/16 17:23	
Toluene	5.0 U	5.0	1.0	5	10/27/16 17:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/27/16 17:23	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/27/16 17:23	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/27/16 17:23	
2-Hexanone	25 U	25	8.3	5	10/27/16 17:23	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/27/16 17:23	
Chlorobenzene	5.0 U	5.0	1.5	5	10/27/16 17:23	
Ethylbenzene	5.0 U	5.0	1.0	5	10/27/16 17:23	
m,p-Xylenes	10 U	10	1.7	5	10/27/16 17:23	
o-Xylene	5.0 U	5.0	1.0	5	10/27/16 17:23	
Styrene	5.0 U	5.0	1.0	5	10/27/16 17:23	
Bromoform	5.0 U	5.0	2.1	5	10/27/16 17:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/27/16 17:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-13-161019	**Units:**	ug/L
Lab Code:	R1611185-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 17:23	
Toluene-d8	112	87 - 121	10/27/16 17:23	
Dibromofluoromethane	108	89 - 119	10/27/16 17:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-8-161019	**Units:**	ug/L
Lab Code:	R1611185-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/27/16 17:53	
Vinyl Chloride	**260**	5.0	1.6	5	10/27/16 17:53	
Chloroethane	5.0 U	5.0	1.2	5	10/27/16 17:53	
Bromomethane	5.0 U	5.0	1.5	5	10/27/16 17:53	
1,1-Dichloroethene	**3.2 J**	5.0	2.9	5	10/27/16 17:53	
Acetone	25 U	25	6.2	5	10/27/16 17:53	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/27/16 17:53	
Methylene Chloride	5.0 U	5.0	3.0	5	10/27/16 17:53	
trans-1,2-Dichloroethene	**4.3 J**	5.0	1.7	5	10/27/16 17:53	
1,1-Dichloroethane	**13**	5.0	1.0	5	10/27/16 17:53	
cis-1,2-Dichloroethene	**810**	5.0	1.5	5	10/27/16 17:53	
2-Butanone (MEK)	25 U	25	4.1	5	10/27/16 17:53	
Chloroform	**2.8 J**	5.0	1.3	5	10/27/16 17:53	
1,1,1-Trichloroethane	**26**	5.0	1.8	5	10/27/16 17:53	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/27/16 17:53	
Benzene	5.0 U	5.0	1.0	5	10/27/16 17:53	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/27/16 17:53	
Trichloroethene	**5.5**	5.0	1.1	5	10/27/16 17:53	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/27/16 17:53	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/27/16 17:53	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/27/16 17:53	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/27/16 17:53	
Toluene	5.0 U	5.0	1.0	5	10/27/16 17:53	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/27/16 17:53	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/27/16 17:53	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/27/16 17:53	
2-Hexanone	25 U	25	8.3	5	10/27/16 17:53	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/27/16 17:53	
Chlorobenzene	5.0 U	5.0	1.5	5	10/27/16 17:53	
Ethylbenzene	5.0 U	5.0	1.0	5	10/27/16 17:53	
m,p-Xylenes	10 U	10	1.7	5	10/27/16 17:53	
o-Xylene	5.0 U	5.0	1.0	5	10/27/16 17:53	
Styrene	5.0 U	5.0	1.0	5	10/27/16 17:53	
Bromoform	5.0 U	5.0	2.1	5	10/27/16 17:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/27/16 17:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-8-161019	**Units:**	ug/L
Lab Code:	R1611185-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 17:53	
Toluene-d8	112	87 - 121	10/27/16 17:53	
Dibromofluoromethane	110	89 - 119	10/27/16 17:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-1-161019	**Units:**	ug/L
Lab Code:	R1611185-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 10:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/26/16 10:51	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 10:51	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 10:51	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 10:51	
Acetone	5.0 U	5.0	1.3	1	10/26/16 10:51	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 10:51	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 10:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 10:51	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 10:51	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/26/16 10:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 10:51	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 10:51	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 10:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 10:51	
Benzene	1.0 U	1.0	0.20	1	10/26/16 10:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 10:51	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 10:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 10:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 10:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 10:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 10:51	
Toluene	1.0 U	1.0	0.20	1	10/26/16 10:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 10:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 10:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 10:51	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 10:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 10:51	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 10:51	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 10:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 10:51	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 10:51	
Styrene	1.0 U	1.0	0.20	1	10/26/16 10:51	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 10:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 10:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-1-161019	**Units:**	ug/L
Lab Code:	R1611185-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 10:51	
Toluene-d8	111	87 - 121	10/26/16 10:51	
Dibromofluoromethane	109	89 - 119	10/26/16 10:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-01(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/27/16 18:23	
Vinyl Chloride	**96**	5.0	1.6	5	10/27/16 18:23	
Chloroethane	5.0 U	5.0	1.2	5	10/27/16 18:23	
Bromomethane	5.0 U	5.0	1.5	5	10/27/16 18:23	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	10/27/16 18:23	
Acetone	**7.5 J**	25	6.2	5	10/27/16 18:23	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/27/16 18:23	
Methylene Chloride	5.0 U	5.0	3.0	5	10/27/16 18:23	
trans-1,2-Dichloroethene	**6.3**	5.0	1.7	5	10/27/16 18:23	
1,1-Dichloroethane	**8.4**	5.0	1.0	5	10/27/16 18:23	
cis-1,2-Dichloroethene	**640**	5.0	1.5	5	10/27/16 18:23	
2-Butanone (MEK)	25 U	25	4.1	5	10/27/16 18:23	
Chloroform	**2.1 J**	5.0	1.3	5	10/27/16 18:23	
1,1,1-Trichloroethane	**13**	5.0	1.8	5	10/27/16 18:23	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/27/16 18:23	
Benzene	5.0 U	5.0	1.0	5	10/27/16 18:23	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/27/16 18:23	
Trichloroethene	**120**	5.0	1.1	5	10/27/16 18:23	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/27/16 18:23	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/27/16 18:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/27/16 18:23	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/27/16 18:23	
Toluene	5.0 U	5.0	1.0	5	10/27/16 18:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/27/16 18:23	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/27/16 18:23	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/27/16 18:23	
2-Hexanone	25 U	25	8.3	5	10/27/16 18:23	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/27/16 18:23	
Chlorobenzene	5.0 U	5.0	1.5	5	10/27/16 18:23	
Ethylbenzene	5.0 U	5.0	1.0	5	10/27/16 18:23	
m,p-Xylenes	10 U	10	1.7	5	10/27/16 18:23	
o-Xylene	5.0 U	5.0	1.0	5	10/27/16 18:23	
Styrene	5.0 U	5.0	1.0	5	10/27/16 18:23	
Bromoform	5.0 U	5.0	2.1	5	10/27/16 18:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/27/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-01(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 18:23	
Toluene-d8	111	87 - 121	10/27/16 18:23	
Dibromofluoromethane	108	89 - 119	10/27/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-12-161019	**Units:**	ug/L
Lab Code:	R1611185-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0	U	1.0	0.21	1	10/26/16 13:53	
Vinyl Chloride	**180**		1.0	0.32	1	10/26/16 13:53	
Chloroethane	1.0	U	1.0	0.24	1	10/26/16 13:53	
Bromomethane	1.0	U	1.0	0.29	1	10/26/16 13:53	
1,1-Dichloroethene	**5.2**		1.0	0.57	1	10/26/16 13:53	
Acetone	5.0	U	5.0	1.3	1	10/26/16 13:53	
Carbon Disulfide	**0.90**	**J**	1.0	0.22	1	10/26/16 13:53	
Methylene Chloride	1.0	U	1.0	0.60	1	10/26/16 13:53	
trans-1,2-Dichloroethene	**15**		1.0	0.33	1	10/26/16 13:53	
1,1-Dichloroethane	**13**		1.0	0.20	1	10/26/16 13:53	
cis-1,2-Dichloroethene	**1400**	**E**	1.0	0.30	1	10/26/16 13:53	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	10/26/16 13:53	
Chloroform	**1.1**		1.0	0.25	1	10/26/16 13:53	
1,1,1-Trichloroethane	**34**		1.0	0.36	1	10/26/16 13:53	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	10/26/16 13:53	
Benzene	1.0	U	1.0	0.20	1	10/26/16 13:53	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	10/26/16 13:53	
Trichloroethene	**83**		1.0	0.22	1	10/26/16 13:53	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	10/26/16 13:53	
Bromodichloromethane	1.0	U	1.0	0.32	1	10/26/16 13:53	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	10/26/16 13:53	
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	1	10/26/16 13:53	
Toluene	1.0	U	1.0	0.20	1	10/26/16 13:53	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	10/26/16 13:53	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	10/26/16 13:53	
Tetrachloroethene	1.0	U	1.0	0.30	1	10/26/16 13:53	
2-Hexanone	5.0	U	5.0	1.7	1	10/26/16 13:53	
Dibromochloromethane	1.0	U	1.0	0.31	1	10/26/16 13:53	
Chlorobenzene	1.0	U	1.0	0.29	1	10/26/16 13:53	
Ethylbenzene	1.0	U	1.0	0.20	1	10/26/16 13:53	
m,p-Xylenes	2.0	U	2.0	0.33	1	10/26/16 13:53	
o-Xylene	1.0	U	1.0	0.20	1	10/26/16 13:53	
Styrene	1.0	U	1.0	0.20	1	10/26/16 13:53	
Bromoform	1.0	U	1.0	0.42	1	10/26/16 13:53	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	10/26/16 13:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 13:53	
Toluene-d8	112	87 - 121	10/26/16 13:53	
Dibromofluoromethane	110	89 - 119	10/26/16 13:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-12-161019	**Units:**	ug/L
Lab Code:	R1611185-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	10/27/16 19:23	
Vinyl Chloride	**170 D**	20	6.4	20	10/27/16 19:23	
Chloroethane	20 U	20	4.8	20	10/27/16 19:23	
Bromomethane	20 U	20	5.8	20	10/27/16 19:23	
1,1-Dichloroethene	20 U	20	12	20	10/27/16 19:23	
Acetone	100 U	100	25	20	10/27/16 19:23	
Carbon Disulfide	20 U	20	4.4	20	10/27/16 19:23	
Methylene Chloride	20 U	20	12	20	10/27/16 19:23	
trans-1,2-Dichloroethene	20 U	20	6.7	20	10/27/16 19:23	
1,1-Dichloroethane	**12 DJ**	20	4.0	20	10/27/16 19:23	
cis-1,2-Dichloroethene	**1700 D**	20	6.0	20	10/27/16 19:23	
2-Butanone (MEK)	100 U	100	17	20	10/27/16 19:23	
Chloroform	**6.0 DJ**	20	5.0	20	10/27/16 19:23	
1,1,1-Trichloroethane	**32 D**	20	7.2	20	10/27/16 19:23	
Carbon Tetrachloride	20 U	20	9.0	20	10/27/16 19:23	
Benzene	20 U	20	4.0	20	10/27/16 19:23	
1,2-Dichloroethane	20 U	20	7.2	20	10/27/16 19:23	
Trichloroethene	**75 D**	20	4.4	20	10/27/16 19:23	
1,2-Dichloropropane	20 U	20	4.0	20	10/27/16 19:23	
Bromodichloromethane	20 U	20	6.4	20	10/27/16 19:23	
cis-1,3-Dichloropropene	20 U	20	4.8	20	10/27/16 19:23	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	10/27/16 19:23	
Toluene	20 U	20	4.0	20	10/27/16 19:23	
trans-1,3-Dichloropropene	20 U	20	4.0	20	10/27/16 19:23	
1,1,2-Trichloroethane	20 U	20	6.9	20	10/27/16 19:23	
Tetrachloroethene	20 U	20	6.0	20	10/27/16 19:23	
2-Hexanone	100 U	100	34	20	10/27/16 19:23	
Dibromochloromethane	20 U	20	6.2	20	10/27/16 19:23	
Chlorobenzene	20 U	20	5.8	20	10/27/16 19:23	
Ethylbenzene	20 U	20	4.0	20	10/27/16 19:23	
m,p-Xylenes	40 U	40	6.7	20	10/27/16 19:23	
o-Xylene	20 U	20	4.0	20	10/27/16 19:23	
Styrene	20 U	20	4.0	20	10/27/16 19:23	
Bromoform	20 U	20	8.4	20	10/27/16 19:23	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	10/27/16 19:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/27/16 19:23	
Toluene-d8	114	87 - 121	10/27/16 19:23	
Dibromofluoromethane	107	89 - 119	10/27/16 19:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	10/27/16 19:53	
Vinyl Chloride	**330**	50	16	50	10/27/16 19:53	
Chloroethane	50 U	50	12	50	10/27/16 19:53	
Bromomethane	50 U	50	15	50	10/27/16 19:53	
1,1-Dichloroethene	50 U	50	29	50	10/27/16 19:53	
Acetone	250 U	250	62	50	10/27/16 19:53	
Carbon Disulfide	50 U	50	11	50	10/27/16 19:53	
Methylene Chloride	**220**	50	30	50	10/27/16 19:53	
trans-1,2-Dichloroethene	50 U	50	17	50	10/27/16 19:53	
1,1-Dichloroethane	**26 J**	50	10	50	10/27/16 19:53	
cis-1,2-Dichloroethene	**5100**	50	15	50	10/27/16 19:53	
2-Butanone (MEK)	250 U	250	41	50	10/27/16 19:53	
Chloroform	50 U	50	13	50	10/27/16 19:53	
1,1,1-Trichloroethane	**73**	50	18	50	10/27/16 19:53	
Carbon Tetrachloride	50 U	50	23	50	10/27/16 19:53	
Benzene	50 U	50	10	50	10/27/16 19:53	
1,2-Dichloroethane	50 U	50	18	50	10/27/16 19:53	
Trichloroethene	**3900**	50	11	50	10/27/16 19:53	
1,2-Dichloropropane	50 U	50	10	50	10/27/16 19:53	
Bromodichloromethane	50 U	50	16	50	10/27/16 19:53	
cis-1,3-Dichloropropene	50 U	50	12	50	10/27/16 19:53	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	10/27/16 19:53	
Toluene	50 U	50	10	50	10/27/16 19:53	
trans-1,3-Dichloropropene	50 U	50	10	50	10/27/16 19:53	
1,1,2-Trichloroethane	50 U	50	17	50	10/27/16 19:53	
Tetrachloroethene	50 U	50	15	50	10/27/16 19:53	
2-Hexanone	250 U	250	83	50	10/27/16 19:53	
Dibromochloromethane	50 U	50	16	50	10/27/16 19:53	
Chlorobenzene	50 U	50	15	50	10/27/16 19:53	
Ethylbenzene	50 U	50	10	50	10/27/16 19:53	
m,p-Xylenes	100 U	100	17	50	10/27/16 19:53	
o-Xylene	50 U	50	10	50	10/27/16 19:53	
Styrene	50 U	50	10	50	10/27/16 19:53	
Bromoform	50 U	50	21	50	10/27/16 19:53	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	10/27/16 19:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 19:53	
Toluene-d8	114	87 - 121	10/27/16 19:53	
Dibromofluoromethane	109	89 - 119	10/27/16 19:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(3)-161020	**Units:**	ug/L
Lab Code:	R1611185-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 14:20	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 14:20	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 14:20	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 14:20	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 14:20	
Acetone	5.0 U	5.0	1.3	1	10/27/16 14:20	
Carbon Disulfide	**1.3**	1.0	0.22	1	10/27/16 14:20	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 14:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 14:20	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 14:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 14:20	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 14:20	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 14:20	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 14:20	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 14:20	
Benzene	1.0 U	1.0	0.20	1	10/27/16 14:20	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 14:20	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 14:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 14:20	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 14:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 14:20	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 14:20	
Toluene	1.0 U	1.0	0.20	1	10/27/16 14:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 14:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 14:20	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 14:20	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 14:20	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 14:20	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 14:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 14:20	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 14:20	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 14:20	
Styrene	1.0 U	1.0	0.20	1	10/27/16 14:20	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 14:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 14:20	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(3)-161020	**Units:**	ug/L
Lab Code:	R1611185-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	10/27/16 14:20	
Toluene-d8	114	87 - 121	10/27/16 14:20	
Dibromofluoromethane	109	89 - 119	10/27/16 14:20	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-10(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 14:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 14:51	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 14:51	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 14:51	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 14:51	
Acetone	5.0 U	5.0	1.3	1	10/27/16 14:51	
Carbon Disulfide	**0.27 J**	1.0	0.22	1	10/27/16 14:51	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 14:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 14:51	
1,1-Dichloroethane	**1.8**	1.0	0.20	1	10/27/16 14:51	
cis-1,2-Dichloroethene	**4.7**	1.0	0.30	1	10/27/16 14:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 14:51	
Chloroform	**1.8**	1.0	0.25	1	10/27/16 14:51	
1,1,1-Trichloroethane	**0.68 J**	1.0	0.36	1	10/27/16 14:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 14:51	
Benzene	1.0 U	1.0	0.20	1	10/27/16 14:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 14:51	
Trichloroethene	**1.2**	1.0	0.22	1	10/27/16 14:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 14:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 14:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 14:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 14:51	
Toluene	1.0 U	1.0	0.20	1	10/27/16 14:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 14:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 14:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 14:51	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 14:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 14:51	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 14:51	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 14:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 14:51	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 14:51	
Styrene	1.0 U	1.0	0.20	1	10/27/16 14:51	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 14:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 14:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-10(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 14:51	
Toluene-d8	104	87 - 121	10/27/16 14:51	
Dibromofluoromethane	110	89 - 119	10/27/16 14:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-11-161020	**Units:**	ug/L
Lab Code:	R1611185-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10	U	10	2.1	10	10/28/16 13:44	
Vinyl Chloride	**450**		10	3.2	10	10/28/16 13:44	
Chloroethane	10	U	10	2.4	10	10/28/16 13:44	
Bromomethane	10	U	10	2.9	10	10/28/16 13:44	
1,1-Dichloroethene	10	U	10	5.7	10	10/28/16 13:44	
Acetone	50	U	50	13	10	10/28/16 13:44	
Carbon Disulfide	**3.4**	**J**	10	2.2	10	10/28/16 13:44	
Methylene Chloride	10	U	10	6.0	10	10/28/16 13:44	
trans-1,2-Dichloroethene	**5.9**	**J**	10	3.3	10	10/28/16 13:44	
1,1-Dichloroethane	**25**		10	2.0	10	10/28/16 13:44	
cis-1,2-Dichloroethene	**1500**		10	3.0	10	10/28/16 13:44	
2-Butanone (MEK)	50	U	50	8.2	10	10/28/16 13:44	
Chloroform	10	U	10	2.5	10	10/28/16 13:44	
1,1,1-Trichloroethane	**110**		10	3.6	10	10/28/16 13:44	
Carbon Tetrachloride	10	U	10	4.5	10	10/28/16 13:44	
Benzene	10	U	10	2.0	10	10/28/16 13:44	
1,2-Dichloroethane	10	U	10	3.6	10	10/28/16 13:44	
Trichloroethene	**14**		10	2.2	10	10/28/16 13:44	
1,2-Dichloropropane	10	U	10	2.0	10	10/28/16 13:44	
Bromodichloromethane	10	U	10	3.2	10	10/28/16 13:44	
cis-1,3-Dichloropropene	10	U	10	2.4	10	10/28/16 13:44	
4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	10	10/28/16 13:44	
Toluene	10	U	10	2.0	10	10/28/16 13:44	
trans-1,3-Dichloropropene	10	U	10	2.0	10	10/28/16 13:44	
1,1,2-Trichloroethane	10	U	10	3.4	10	10/28/16 13:44	
Tetrachloroethene	10	U	10	3.0	10	10/28/16 13:44	
2-Hexanone	50	U	50	17	10	10/28/16 13:44	
Dibromochloromethane	10	U	10	3.1	10	10/28/16 13:44	
Chlorobenzene	10	U	10	2.9	10	10/28/16 13:44	
Ethylbenzene	10	U	10	2.0	10	10/28/16 13:44	
m,p-Xylenes	20	U	20	3.3	10	10/28/16 13:44	
o-Xylene	10	U	10	2.0	10	10/28/16 13:44	
Styrene	10	U	10	2.0	10	10/28/16 13:44	
Bromoform	10	U	10	4.2	10	10/28/16 13:44	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	10/28/16 13:44	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-11-161020	**Units:**	ug/L
Lab Code:	R1611185-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 13:44	
Toluene-d8	113	87 - 121	10/28/16 13:44	
Dibromofluoromethane	109	89 - 119	10/28/16 13:44	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-2-101620	**Units:**	ug/L
Lab Code:	R1611185-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 13:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 13:51	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 13:51	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 13:51	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 13:51	
Acetone	5.0 U	5.0	1.3	1	10/27/16 13:51	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 13:51	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 13:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 13:51	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 13:51	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 13:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 13:51	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 13:51	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 13:51	
Benzene	1.0 U	1.0	0.20	1	10/27/16 13:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:51	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 13:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 13:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 13:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 13:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 13:51	
Toluene	1.0 U	1.0	0.20	1	10/27/16 13:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 13:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 13:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 13:51	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 13:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 13:51	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 13:51	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 13:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 13:51	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 13:51	
Styrene	1.0 U	1.0	0.20	1	10/27/16 13:51	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 13:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 13:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-2-101620	**Units:**	ug/L
Lab Code:	R1611185-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 13:51	
Toluene-d8	114	87 - 121	10/27/16 13:51	
Dibromofluoromethane	111	89 - 119	10/27/16 13:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-14(1)-101620	**Units:**	ug/L
Lab Code:	R1611185-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 12:13	
Vinyl Chloride	**180**	1.0	0.32	1	10/28/16 12:13	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 12:13	
Bromomethane	1.0 U	1.0	0.29	1	10/28/16 12:13	
1,1-Dichloroethene	**1.3**	1.0	0.57	1	10/28/16 12:13	
Acetone	**1.6 J**	5.0	1.3	1	10/28/16 12:13	
Carbon Disulfide	**0.71 J**	1.0	0.22	1	10/28/16 12:13	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 12:13	
trans-1,2-Dichloroethene	**1.8**	1.0	0.33	1	10/28/16 12:13	
1,1-Dichloroethane	**20**	1.0	0.20	1	10/28/16 12:13	
cis-1,2-Dichloroethene	**170**	1.0	0.30	1	10/28/16 12:13	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 12:13	
Chloroform	1.0 U	1.0	0.25	1	10/28/16 12:13	
1,1,1-Trichloroethane	**81**	1.0	0.36	1	10/28/16 12:13	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 12:13	
Benzene	1.0 U	1.0	0.20	1	10/28/16 12:13	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 12:13	
Trichloroethene	**1.8**	1.0	0.22	1	10/28/16 12:13	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 12:13	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 12:13	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 12:13	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 12:13	
Toluene	1.0 U	1.0	0.20	1	10/28/16 12:13	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 12:13	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 12:13	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 12:13	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 12:13	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 12:13	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 12:13	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 12:13	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 12:13	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 12:13	
Styrene	1.0 U	1.0	0.20	1	10/28/16 12:13	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 12:13	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 12:13	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-14(1)-101620	**Units:**	ug/L
Lab Code:	R1611185-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 12:13	
Toluene-d8	114	87 - 121	10/28/16 12:13	
Dibromofluoromethane	110	89 - 119	10/28/16 12:13	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-13(3)-101620	**Units:**	ug/L
Lab Code:	R1611185-027	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	500 U	500	110	500	10/28/16 04:54	
Vinyl Chloride	**610**	500	160	500	10/28/16 04:54	
Chloroethane	500 U	500	120	500	10/28/16 04:54	
Bromomethane	500 U	500	150	500	10/28/16 04:54	
1,1-Dichloroethene	500 U	500	290	500	10/28/16 04:54	
Acetone	2500 U	2500	620	500	10/28/16 04:54	
Carbon Disulfide	**710**	500	110	500	10/28/16 04:54	
Methylene Chloride	500 U	500	300	500	10/28/16 04:54	
trans-1,2-Dichloroethene	**390 J**	500	170	500	10/28/16 04:54	
1,1-Dichloroethane	500 U	500	100	500	10/28/16 04:54	
cis-1,2-Dichloroethene	**57000**	500	150	500	10/28/16 04:54	
2-Butanone (MEK)	2500 U	2500	410	500	10/28/16 04:54	
Chloroform	**810**	500	130	500	10/28/16 04:54	
1,1,1-Trichloroethane	500 U	500	180	500	10/28/16 04:54	
Carbon Tetrachloride	500 U	500	230	500	10/28/16 04:54	
Benzene	500 U	500	100	500	10/28/16 04:54	
1,2-Dichloroethane	500 U	500	180	500	10/28/16 04:54	
Trichloroethene	**72000**	500	110	500	10/28/16 04:54	
1,2-Dichloropropane	500 U	500	100	500	10/28/16 04:54	
Bromodichloromethane	**210 J**	500	160	500	10/28/16 04:54	
cis-1,3-Dichloropropene	500 U	500	120	500	10/28/16 04:54	
4-Methyl-2-pentanone (MIBK)	2500 U	2500	340	500	10/28/16 04:54	
Toluene	500 U	500	100	500	10/28/16 04:54	
trans-1,3-Dichloropropene	500 U	500	100	500	10/28/16 04:54	
1,1,2-Trichloroethane	500 U	500	170	500	10/28/16 04:54	
Tetrachloroethene	500 U	500	150	500	10/28/16 04:54	
2-Hexanone	2500 U	2500	830	500	10/28/16 04:54	
Dibromochloromethane	500 U	500	160	500	10/28/16 04:54	
Chlorobenzene	500 U	500	150	500	10/28/16 04:54	
Ethylbenzene	500 U	500	100	500	10/28/16 04:54	
m,p-Xylenes	1000 U	1000	170	500	10/28/16 04:54	
o-Xylene	500 U	500	100	500	10/28/16 04:54	
Styrene	500 U	500	100	500	10/28/16 04:54	
Bromoform	500 U	500	210	500	10/28/16 04:54	
1,1,2,2-Tetrachloroethane	500 U	500	130	500	10/28/16 04:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-13(3)-101620	**Units:**	ug/L
Lab Code:	R1611185-027	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/28/16 04:54	
Toluene-d8	113	87 - 121	10/28/16 04:54	
Dibromofluoromethane	107	89 - 119	10/28/16 04:54	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-10-161020	**Units:**	ug/L
Lab Code:	R1611185-028	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10	U	10	2.1	10	10/28/16 03:24	
Vinyl Chloride	**110**		10	3.2	10	10/28/16 03:24	
Chloroethane	10	U	10	2.4	10	10/28/16 03:24	
Bromomethane	10	U	10	2.9	10	10/28/16 03:24	
1,1-Dichloroethene	**5.9**	**J**	10	5.7	10	10/28/16 03:24	
Acetone	50	U	50	13	10	10/28/16 03:24	
Carbon Disulfide	10	U	10	2.2	10	10/28/16 03:24	
Methylene Chloride	**2300**	**E**	10	6.0	10	10/28/16 03:24	
trans-1,2-Dichloroethene	**3.8**	**J**	10	3.3	10	10/28/16 03:24	
1,1-Dichloroethane	**12**		10	2.0	10	10/28/16 03:24	
cis-1,2-Dichloroethene	**960**		10	3.0	10	10/28/16 03:24	
2-Butanone (MEK)	50	U	50	8.2	10	10/28/16 03:24	
Chloroform	**3.4**	**J**	10	2.5	10	10/28/16 03:24	
1,1,1-Trichloroethane	**57**		10	3.6	10	10/28/16 03:24	
Carbon Tetrachloride	10	U	10	4.5	10	10/28/16 03:24	
Benzene	10	U	10	2.0	10	10/28/16 03:24	
1,2-Dichloroethane	10	U	10	3.6	10	10/28/16 03:24	
Trichloroethene	**510**		10	2.2	10	10/28/16 03:24	
1,2-Dichloropropane	10	U	10	2.0	10	10/28/16 03:24	
Bromodichloromethane	10	U	10	3.2	10	10/28/16 03:24	
cis-1,3-Dichloropropene	10	U	10	2.4	10	10/28/16 03:24	
4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	10	10/28/16 03:24	
Toluene	10	U	10	2.0	10	10/28/16 03:24	
trans-1,3-Dichloropropene	10	U	10	2.0	10	10/28/16 03:24	
1,1,2-Trichloroethane	10	U	10	3.4	10	10/28/16 03:24	
Tetrachloroethene	10	U	10	3.0	10	10/28/16 03:24	
2-Hexanone	50	U	50	17	10	10/28/16 03:24	
Dibromochloromethane	10	U	10	3.1	10	10/28/16 03:24	
Chlorobenzene	10	U	10	2.9	10	10/28/16 03:24	
Ethylbenzene	10	U	10	2.0	10	10/28/16 03:24	
m,p-Xylenes	20	U	20	3.3	10	10/28/16 03:24	
o-Xylene	10	U	10	2.0	10	10/28/16 03:24	
Styrene	10	U	10	2.0	10	10/28/16 03:24	
Bromoform	10	U	10	4.2	10	10/28/16 03:24	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	10/28/16 03:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 03:24	
Toluene-d8	114	87 - 121	10/28/16 03:24	
Dibromofluoromethane	110	89 - 119	10/28/16 03:24	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-10-161020	**Units:**	ug/L
Lab Code:	R1611185-028	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	10/28/16 14:44	
Vinyl Chloride	**100 D**	20	6.4	20	10/28/16 14:44	
Chloroethane	20 U	20	4.8	20	10/28/16 14:44	
Bromomethane	20 U	20	5.8	20	10/28/16 14:44	
1,1-Dichloroethene	20 U	20	12	20	10/28/16 14:44	
Acetone	100 U	100	25	20	10/28/16 14:44	
Carbon Disulfide	20 U	20	4.4	20	10/28/16 14:44	
Methylene Chloride	**2300 D**	20	12	20	10/28/16 14:44	
trans-1,2-Dichloroethene	20 U	20	6.7	20	10/28/16 14:44	
1,1-Dichloroethane	**12 DJ**	20	4.0	20	10/28/16 14:44	
cis-1,2-Dichloroethene	**890 D**	20	6.0	20	10/28/16 14:44	
2-Butanone (MEK)	100 U	100	17	20	10/28/16 14:44	
Chloroform	20 U	20	5.0	20	10/28/16 14:44	
1,1,1-Trichloroethane	**54 D**	20	7.2	20	10/28/16 14:44	
Carbon Tetrachloride	20 U	20	9.0	20	10/28/16 14:44	
Benzene	20 U	20	4.0	20	10/28/16 14:44	
1,2-Dichloroethane	20 U	20	7.2	20	10/28/16 14:44	
Trichloroethene	**480 D**	20	4.4	20	10/28/16 14:44	
1,2-Dichloropropane	20 U	20	4.0	20	10/28/16 14:44	
Bromodichloromethane	20 U	20	6.4	20	10/28/16 14:44	
cis-1,3-Dichloropropene	20 U	20	4.8	20	10/28/16 14:44	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	10/28/16 14:44	
Toluene	20 U	20	4.0	20	10/28/16 14:44	
trans-1,3-Dichloropropene	20 U	20	4.0	20	10/28/16 14:44	
1,1,2-Trichloroethane	20 U	20	6.9	20	10/28/16 14:44	
Tetrachloroethene	20 U	20	6.0	20	10/28/16 14:44	
2-Hexanone	100 U	100	34	20	10/28/16 14:44	
Dibromochloromethane	20 U	20	6.2	20	10/28/16 14:44	
Chlorobenzene	20 U	20	5.8	20	10/28/16 14:44	
Ethylbenzene	20 U	20	4.0	20	10/28/16 14:44	
m,p-Xylenes	40 U	40	6.7	20	10/28/16 14:44	
o-Xylene	20 U	20	4.0	20	10/28/16 14:44	
Styrene	20 U	20	4.0	20	10/28/16 14:44	
Bromoform	20 U	20	8.4	20	10/28/16 14:44	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	10/28/16 14:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/28/16 14:44	
Toluene-d8	111	87 - 121	10/28/16 14:44	
Dibromofluoromethane	107	89 - 119	10/28/16 14:44	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-15(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-029	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	250	U	250	53	250	10/28/16 04:24	
Vinyl Chloride	**390**		250	80	250	10/28/16 04:24	
Chloroethane	250	U	250	60	250	10/28/16 04:24	
Bromomethane	250	U	250	73	250	10/28/16 04:24	
1,1-Dichloroethene	250	U	250	150	250	10/28/16 04:24	
Acetone	1300	U	1300	310	250	10/28/16 04:24	
Carbon Disulfide	**110**	**J**	250	55	250	10/28/16 04:24	
Methylene Chloride	**82000**	**E**	250	150	250	10/28/16 04:24	
trans-1,2-Dichloroethene	250	U	250	83	250	10/28/16 04:24	
1,1-Dichloroethane	250	U	250	50	250	10/28/16 04:24	
cis-1,2-Dichloroethene	**17000**		250	75	250	10/28/16 04:24	
2-Butanone (MEK)	1300	U	1300	210	250	10/28/16 04:24	
Chloroform	**410**		250	63	250	10/28/16 04:24	
1,1,1-Trichloroethane	**230**	**J**	250	90	250	10/28/16 04:24	
Carbon Tetrachloride	250	U	250	120	250	10/28/16 04:24	
Benzene	250	U	250	50	250	10/28/16 04:24	
1,2-Dichloroethane	250	U	250	90	250	10/28/16 04:24	
Trichloroethene	**110000**	**E**	250	55	250	10/28/16 04:24	
1,2-Dichloropropane	250	U	250	50	250	10/28/16 04:24	
Bromodichloromethane	**130**	**J**	250	80	250	10/28/16 04:24	
cis-1,3-Dichloropropene	250	U	250	60	250	10/28/16 04:24	
4-Methyl-2-pentanone (MIBK)	1300	U	1300	170	250	10/28/16 04:24	
Toluene	250	U	250	50	250	10/28/16 04:24	
trans-1,3-Dichloropropene	250	U	250	50	250	10/28/16 04:24	
1,1,2-Trichloroethane	250	U	250	85	250	10/28/16 04:24	
Tetrachloroethene	250	U	250	75	250	10/28/16 04:24	
2-Hexanone	1300	U	1300	420	250	10/28/16 04:24	
Dibromochloromethane	250	U	250	78	250	10/28/16 04:24	
Chlorobenzene	250	U	250	73	250	10/28/16 04:24	
Ethylbenzene	250	U	250	50	250	10/28/16 04:24	
m,p-Xylenes	500	U	500	83	250	10/28/16 04:24	
o-Xylene	250	U	250	50	250	10/28/16 04:24	
Styrene	250	U	250	50	250	10/28/16 04:24	
Bromoform	250	U	250	110	250	10/28/16 04:24	
1,1,2,2-Tetrachloroethane	250	U	250	63	250	10/28/16 04:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 04:24	
Toluene-d8	116	87 - 121	10/28/16 04:24	
Dibromofluoromethane	110	89 - 119	10/28/16 04:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-15(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-029	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1000	U	1000	210	1000	10/28/16 15:14	
Vinyl Chloride	**560**	**DJ**	1000	320	1000	10/28/16 15:14	
Chloroethane	1000	U	1000	240	1000	10/28/16 15:14	
Bromomethane	1000	U	1000	290	1000	10/28/16 15:14	
1,1-Dichloroethene	1000	U	1000	570	1000	10/28/16 15:14	
Acetone	5000	U	5000	1300	1000	10/28/16 15:14	
Carbon Disulfide	**230**	**DJ**	1000	220	1000	10/28/16 15:14	
Methylene Chloride	**110000**	**D**	1000	600	1000	10/28/16 15:14	
trans-1,2-Dichloroethene	1000	U	1000	330	1000	10/28/16 15:14	
1,1-Dichloroethane	1000	U	1000	200	1000	10/28/16 15:14	
cis-1,2-Dichloroethene	**21000**	**D**	1000	300	1000	10/28/16 15:14	
2-Butanone (MEK)	5000	U	5000	810	1000	10/28/16 15:14	
Chloroform	**1900**	**D**	1000	250	1000	10/28/16 15:14	
1,1,1-Trichloroethane	1000	U	1000	360	1000	10/28/16 15:14	
Carbon Tetrachloride	1000	U	1000	450	1000	10/28/16 15:14	
Benzene	1000	U	1000	200	1000	10/28/16 15:14	
1,2-Dichloroethane	1000	U	1000	360	1000	10/28/16 15:14	
Trichloroethene	**140000**	**D**	1000	220	1000	10/28/16 15:14	
1,2-Dichloropropane	1000	U	1000	200	1000	10/28/16 15:14	
Bromodichloromethane	**480**	**DJ**	1000	320	1000	10/28/16 15:14	
cis-1,3-Dichloropropene	1000	U	1000	240	1000	10/28/16 15:14	
4-Methyl-2-pentanone (MIBK)	5000	U	5000	670	1000	10/28/16 15:14	
Toluene	1000	U	1000	200	1000	10/28/16 15:14	
trans-1,3-Dichloropropene	1000	U	1000	200	1000	10/28/16 15:14	
1,1,2-Trichloroethane	1000	U	1000	340	1000	10/28/16 15:14	
Tetrachloroethene	1000	U	1000	300	1000	10/28/16 15:14	
2-Hexanone	5000	U	5000	1700	1000	10/28/16 15:14	
Dibromochloromethane	1000	U	1000	310	1000	10/28/16 15:14	
Chlorobenzene	1000	U	1000	290	1000	10/28/16 15:14	
Ethylbenzene	1000	U	1000	200	1000	10/28/16 15:14	
m,p-Xylenes	2000	U	2000	330	1000	10/28/16 15:14	
o-Xylene	1000	U	1000	200	1000	10/28/16 15:14	
Styrene	1000	U	1000	200	1000	10/28/16 15:14	
Bromoform	1000	U	1000	420	1000	10/28/16 15:14	
1,1,2,2-Tetrachloroethane	1000	U	1000	250	1000	10/28/16 15:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/28/16 15:14	
Toluene-d8	113	87 - 121	10/28/16 15:14	
Dibromofluoromethane	109	89 - 119	10/28/16 15:14	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-14(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-030	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 15:21	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 15:21	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 15:21	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 15:21	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 15:21	
Acetone	**1.9 J**	5.0	1.3	1	10/27/16 15:21	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 15:21	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 15:21	
trans-1,2-Dichloroethene	**0.34 J**	1.0	0.33	1	10/27/16 15:21	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 15:21	
cis-1,2-Dichloroethene	**0.91 J**	1.0	0.30	1	10/27/16 15:21	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 15:21	
Chloroform	**0.53 J**	1.0	0.25	1	10/27/16 15:21	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 15:21	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 15:21	
Benzene	1.0 U	1.0	0.20	1	10/27/16 15:21	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 15:21	
Trichloroethene	**120**	1.0	0.22	1	10/27/16 15:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 15:21	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 15:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 15:21	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 15:21	
Toluene	1.0 U	1.0	0.20	1	10/27/16 15:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 15:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 15:21	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 15:21	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 15:21	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 15:21	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 15:21	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 15:21	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 15:21	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 15:21	
Styrene	1.0 U	1.0	0.20	1	10/27/16 15:21	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 15:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 15:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-14(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-030	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/27/16 15:21	
Toluene-d8	105	87 - 121	10/27/16 15:21	
Dibromofluoromethane	110	89 - 119	10/27/16 15:21	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DUP-2-161020	**Units:**	ug/L
Lab Code:	R1611185-031	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	**0.35 J**	1.0	0.21	1	10/28/16 00:53	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/28/16 00:53	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 00:53	
Bromomethane	**0.69 BJ**	1.0	0.29	1	10/28/16 00:53	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/28/16 00:53	
Acetone	**2.3 J**	5.0	1.3	1	10/28/16 00:53	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 00:53	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 00:53	
trans-1,2-Dichloroethene	**0.37 J**	1.0	0.33	1	10/28/16 00:53	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/16 00:53	
cis-1,2-Dichloroethene	**1.1**	1.0	0.30	1	10/28/16 00:53	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 00:53	
Chloroform	**0.57 J**	1.0	0.25	1	10/28/16 00:53	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/28/16 00:53	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 00:53	
Benzene	1.0 U	1.0	0.20	1	10/28/16 00:53	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 00:53	
Trichloroethene	**120**	1.0	0.22	1	10/28/16 00:53	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 00:53	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 00:53	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 00:53	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 00:53	
Toluene	1.0 U	1.0	0.20	1	10/28/16 00:53	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 00:53	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 00:53	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 00:53	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 00:53	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 00:53	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 00:53	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 00:53	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 00:53	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 00:53	
Styrene	1.0 U	1.0	0.20	1	10/28/16 00:53	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 00:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 00:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DUP-2-161020	**Units:**	ug/L
Lab Code:	R1611185-031	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 00:53	
Toluene-d8	106	87 - 121	10/28/16 00:53	
Dibromofluoromethane	109	89 - 119	10/28/16 00:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-08(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-032	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 20:24	
Vinyl Chloride	**72**	1.0	0.32	1	10/24/16 20:24	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 20:24	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 20:24	
1,1-Dichloroethene	**1.9**	1.0	0.57	1	10/24/16 20:24	
Acetone	5.0 U	5.0	1.3	1	10/24/16 20:24	
Carbon Disulfide	**0.23 J**	1.0	0.22	1	10/24/16 20:24	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 20:24	
trans-1,2-Dichloroethene	**1.6**	1.0	0.33	1	10/24/16 20:24	
1,1-Dichloroethane	**1.7**	1.0	0.20	1	10/24/16 20:24	
cis-1,2-Dichloroethene	**300 E**	1.0	0.30	1	10/24/16 20:24	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 20:24	
Chloroform	1.0 U	1.0	0.25	1	10/24/16 20:24	
1,1,1-Trichloroethane	**0.77 J**	1.0	0.36	1	10/24/16 20:24	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 20:24	
Benzene	1.0 U	1.0	0.20	1	10/24/16 20:24	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 20:24	
Trichloroethene	**3.5**	1.0	0.22	1	10/24/16 20:24	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 20:24	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 20:24	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 20:24	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 20:24	
Toluene	1.0 U	1.0	0.20	1	10/24/16 20:24	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 20:24	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 20:24	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 20:24	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 20:24	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 20:24	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 20:24	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 20:24	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 20:24	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 20:24	
Styrene	1.0 U	1.0	0.20	1	10/24/16 20:24	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 20:24	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 20:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	10/24/16 20:24	
Toluene-d8	110	87 - 121	10/24/16 20:24	
Dibromofluoromethane	105	89 - 119	10/24/16 20:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-08(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-032	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.5 U	2.5	0.53	2.5	10/27/16 15:51	
Vinyl Chloride	**68 D**	2.5	0.80	2.5	10/27/16 15:51	
Chloroethane	2.5 U	2.5	0.60	2.5	10/27/16 15:51	
Bromomethane	2.5 U	2.5	0.73	2.5	10/27/16 15:51	
1,1-Dichloroethene	**2.1 DJ**	2.5	1.5	2.5	10/27/16 15:51	
Acetone	13 U	13	3.1	2.5	10/27/16 15:51	
Carbon Disulfide	2.5 U	2.5	0.55	2.5	10/27/16 15:51	
Methylene Chloride	2.5 U	2.5	1.5	2.5	10/27/16 15:51	
trans-1,2-Dichloroethene	**2.4 DJ**	2.5	0.83	2.5	10/27/16 15:51	
1,1-Dichloroethane	**1.4 DJ**	2.5	0.50	2.5	10/27/16 15:51	
cis-1,2-Dichloroethene	**300 D**	2.5	0.75	2.5	10/27/16 15:51	
2-Butanone (MEK)	13 U	13	2.1	2.5	10/27/16 15:51	
Chloroform	2.5 U	2.5	0.63	2.5	10/27/16 15:51	
1,1,1-Trichloroethane	2.5 U	2.5	0.90	2.5	10/27/16 15:51	
Carbon Tetrachloride	2.5 U	2.5	1.2	2.5	10/27/16 15:51	
Benzene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
1,2-Dichloroethane	2.5 U	2.5	0.90	2.5	10/27/16 15:51	
Trichloroethene	**3.6 D**	2.5	0.55	2.5	10/27/16 15:51	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
Bromodichloromethane	2.5 U	2.5	0.80	2.5	10/27/16 15:51	
cis-1,3-Dichloropropene	2.5 U	2.5	0.60	2.5	10/27/16 15:51	
4-Methyl-2-pentanone (MIBK)	13 U	13	1.7	2.5	10/27/16 15:51	
Toluene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
trans-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
1,1,2-Trichloroethane	2.5 U	2.5	0.85	2.5	10/27/16 15:51	
Tetrachloroethene	2.5 U	2.5	0.75	2.5	10/27/16 15:51	
2-Hexanone	13 U	13	4.2	2.5	10/27/16 15:51	
Dibromochloromethane	2.5 U	2.5	0.78	2.5	10/27/16 15:51	
Chlorobenzene	2.5 U	2.5	0.73	2.5	10/27/16 15:51	
Ethylbenzene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
m,p-Xylenes	5.0 U	5.0	0.83	2.5	10/27/16 15:51	
o-Xylene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
Styrene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
Bromoform	2.5 U	2.5	1.1	2.5	10/27/16 15:51	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.63	2.5	10/27/16 15:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 15:51	
Toluene-d8	111	87 - 121	10/27/16 15:51	
Dibromofluoromethane	109	89 - 119	10/27/16 15:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-9-161020	**Units:**	ug/L
Lab Code:	R1611185-033	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 01:23	
Vinyl Chloride	**2.5**	1.0	0.32	1	10/28/16 01:23	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 01:23	
Bromomethane	**0.45 BJ**	1.0	0.29	1	10/28/16 01:23	
1,1-Dichloroethene	**12**	1.0	0.57	1	10/28/16 01:23	
Acetone	5.0 U	5.0	1.3	1	10/28/16 01:23	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 01:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 01:23	
trans-1,2-Dichloroethene	**8.6**	1.0	0.33	1	10/28/16 01:23	
1,1-Dichloroethane	**13**	1.0	0.20	1	10/28/16 01:23	
cis-1,2-Dichloroethene	**800 E**	1.0	0.30	1	10/28/16 01:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 01:23	
Chloroform	**3.0**	1.0	0.25	1	10/28/16 01:23	
1,1,1-Trichloroethane	**44**	1.0	0.36	1	10/28/16 01:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 01:23	
Benzene	**0.85 J**	1.0	0.20	1	10/28/16 01:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 01:23	
Trichloroethene	**1300 E**	1.0	0.22	1	10/28/16 01:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 01:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 01:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 01:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 01:23	
Toluene	1.0 U	1.0	0.20	1	10/28/16 01:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 01:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 01:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 01:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 01:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 01:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 01:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 01:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 01:23	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 01:23	
Styrene	1.0 U	1.0	0.20	1	10/28/16 01:23	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 01:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 01:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 01:23	
Toluene-d8	111	87 - 121	10/28/16 01:23	
Dibromofluoromethane	110	89 - 119	10/28/16 01:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-9-161020	**Units:**	ug/L
Lab Code:	R1611185-033	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	10/28/16 15:44	
Vinyl Chloride	20 U	20	6.4	20	10/28/16 15:44	
Chloroethane	20 U	20	4.8	20	10/28/16 15:44	
Bromomethane	20 U	20	5.8	20	10/28/16 15:44	
1,1-Dichloroethene	**17 DJ**	20	12	20	10/28/16 15:44	
Acetone	100 U	100	25	20	10/28/16 15:44	
Carbon Disulfide	**5.6 DJ**	20	4.4	20	10/28/16 15:44	
Methylene Chloride	20 U	20	12	20	10/28/16 15:44	
trans-1,2-Dichloroethene	**9.4 DJ**	20	6.7	20	10/28/16 15:44	
1,1-Dichloroethane	**16 DJ**	20	4.0	20	10/28/16 15:44	
cis-1,2-Dichloroethene	**1100 D**	20	6.0	20	10/28/16 15:44	
2-Butanone (MEK)	100 U	100	17	20	10/28/16 15:44	
Chloroform	**5.2 DJ**	20	5.0	20	10/28/16 15:44	
1,1,1-Trichloroethane	**46 D**	20	7.2	20	10/28/16 15:44	
Carbon Tetrachloride	20 U	20	9.0	20	10/28/16 15:44	
Benzene	20 U	20	4.0	20	10/28/16 15:44	
1,2-Dichloroethane	20 U	20	7.2	20	10/28/16 15:44	
Trichloroethene	**2400 D**	20	4.4	20	10/28/16 15:44	
1,2-Dichloropropane	20 U	20	4.0	20	10/28/16 15:44	
Bromodichloromethane	20 U	20	6.4	20	10/28/16 15:44	
cis-1,3-Dichloropropene	20 U	20	4.8	20	10/28/16 15:44	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	10/28/16 15:44	
Toluene	20 U	20	4.0	20	10/28/16 15:44	
trans-1,3-Dichloropropene	20 U	20	4.0	20	10/28/16 15:44	
1,1,2-Trichloroethane	20 U	20	6.9	20	10/28/16 15:44	
Tetrachloroethene	20 U	20	6.0	20	10/28/16 15:44	
2-Hexanone	100 U	100	34	20	10/28/16 15:44	
Dibromochloromethane	20 U	20	6.2	20	10/28/16 15:44	
Chlorobenzene	20 U	20	5.8	20	10/28/16 15:44	
Ethylbenzene	20 U	20	4.0	20	10/28/16 15:44	
m,p-Xylenes	40 U	40	6.7	20	10/28/16 15:44	
o-Xylene	20 U	20	4.0	20	10/28/16 15:44	
Styrene	20 U	20	4.0	20	10/28/16 15:44	
Bromoform	20 U	20	8.4	20	10/28/16 15:44	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	10/28/16 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/28/16 15:44	
Toluene-d8	113	87 - 121	10/28/16 15:44	
Dibromofluoromethane	105	89 - 119	10/28/16 15:44	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-8(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-034	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 12:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/28/16 12:43	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 12:43	
Bromomethane	1.0 U	1.0	0.29	1	10/28/16 12:43	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/28/16 12:43	
Acetone	5.0 U	5.0	1.3	1	10/28/16 12:43	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 12:43	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 12:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/28/16 12:43	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/16 12:43	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/28/16 12:43	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 12:43	
Chloroform	1.0 U	1.0	0.25	1	10/28/16 12:43	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/28/16 12:43	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 12:43	
Benzene	1.0 U	1.0	0.20	1	10/28/16 12:43	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 12:43	
Trichloroethene	1.0 U	1.0	0.22	1	10/28/16 12:43	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 12:43	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 12:43	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 12:43	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 12:43	
Toluene	**0.32 J**	1.0	0.20	1	10/28/16 12:43	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 12:43	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 12:43	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 12:43	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 12:43	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 12:43	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 12:43	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 12:43	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 12:43	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 12:43	
Styrene	1.0 U	1.0	0.20	1	10/28/16 12:43	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 12:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 12:43	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-8(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-034	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 12:43	
Toluene-d8	108	87 - 121	10/28/16 12:43	
Dibromofluoromethane	108	89 - 119	10/28/16 12:43	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 1405
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/28/16 13:13
Sample Name:	BAT-87-17(1)-161020	**Units:**	µg/L
Lab Code:	R1611185-035	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	521126
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	**150**		1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	**0.91**	J	1.0	0.57	
67-64-1	Acetone	**1.4**	J	5.0	1.3	
75-15-0	Carbon Disulfide	**1.5**		1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	**2.5**		1.0	0.33	
75-34-3	1,1-Dichloroethane	**21**		1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	**130**		1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	**89**		1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	**18**		1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

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Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 1405
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/28/16 13:13
Sample Name:	BAT-87-17(1)-161020	**Units:**	µg/L
Lab Code:	R1611185-035	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	521126
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/28/16 13:13	
Toluene-d8	108	87-121	10/28/16 13:13	
Dibromofluoromethane	109	89-119	10/28/16 13:13	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1611185-036	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 13:20	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 13:20	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 13:20	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 13:20	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 13:20	
Acetone	5.0 U	5.0	1.3	1	10/27/16 13:20	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 13:20	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 13:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 13:20	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 13:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 13:20	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 13:20	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 13:20	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:20	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 13:20	
Benzene	1.0 U	1.0	0.20	1	10/27/16 13:20	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:20	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 13:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 13:20	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 13:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 13:20	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 13:20	
Toluene	1.0 U	1.0	0.20	1	10/27/16 13:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 13:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 13:20	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 13:20	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 13:20	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 13:20	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 13:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 13:20	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 13:20	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 13:20	
Styrene	1.0 U	1.0	0.20	1	10/27/16 13:20	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 13:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 13:20	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1611185-036	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 13:20	
Toluene-d8	111	87 - 121	10/27/16 13:20	
Dibromofluoromethane	109	89 - 119	10/27/16 13:20	

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
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: CB&I **Service Request:** R1611185

Project: Textron Wheatfield-Annual Wells/156045

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Toluene-d8 87 - 121	Dibromofluoromethane 89 - 119
BAT-EW-2-161019	R1611185-001	110	111	107
BAT-EW-2-161019 DL	R1611185-001	105	112	109
BAT-EW-3-161019	R1611185-002	104	112	109
BAT-EW-4-161019	R1611185-003	107	111	110
BAT-EW-5-101619	R1611185-004	110	114	109
BAT-EW-5-101619 DL	R1611185-004	104	107	116
BAT-EW-6-101619	R1611185-005	105	113	110
BAT-93-03(1)-161019	R1611185-006	110	112	107
BAT-89-04(1)-161019	R1611185-007	105	113	111
BAT-87-22(1)-161019	R1611185-008	111	112	111
BAT-87-22(1)-161019 DL	R1611185-008	105	114	111
DUP #1	R1611185-009	104	112	110
DUP #1 DL	R1611185-009	106	113	110
BAT-87-21(1)-161019	R1611185-010	104	110	110
BAT-87-21(1)-161019 DL	R1611185-010	108	114	110
BAT-87-19(1)-161019	R1611185-011	106	112	109
BAT-87-20(1)-101619	R1611185-012	105	114	109
BAT-87-20(0)-161019	R1611185-013	102	108	109
BAT-89-14(1)-161019	R1611185-014	103	111	111
BAT-EW-7-161019	R1611185-015	105	111	112
BAT-EW-13-161019	R1611185-016	104	112	108
BAT-EW-8-161019	R1611185-017	105	112	110
BAT-FB-1-161019	R1611185-018	104	111	109
BAT-87-01(1)-161019	R1611185-019	104	111	108
BAT-DW-12-161019	R1611185-020	104	112	110
BAT-DW-12-161019 DL	R1611185-020	103	114	107
BAT-87-02(1)-161020	R1611185-021	104	114	109
BAT-87-02(3)-161020	R1611185-022	109	114	109
BAT-87-10(0)-161020	R1611185-023	105	104	110
BAT-DW-11-161020	R1611185-024	106	113	109
BAT-FB-2-101620	R1611185-025	105	114	111
BAT-B-14(1)-101620	R1611185-026	106	114	110
BAT-87-13(3)-101620	R1611185-027	103	113	107
BAT-DW-10-161020	R1611185-028	106	114	110
BAT-DW-10-161020 DL	R1611185-028	103	111	107
BAT-89-15(1)-161020	R1611185-029	106	116	110
BAT-89-15(1)-161020 DL	R1611185-029	104	113	109

Client: CB&I **Service Request:** R1611185

Project: Textron Wheatfield-Annual Wells/156045

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Toluene-d8 87 - 121	Dibromofluoromethane 89 - 119
BAT-87-14(0)-161020	R1611185-030	103	105	110
BAT-DUP-2-161020	R1611185-031	105	106	109
BAT-87-08(1)-161020	R1611185-032	109	110	105
BAT-87-08(1)-161020 DL	R1611185-032	104	111	109
BAT-DW-9-161020	R1611185-033	105	111	110
BAT-DW-9-161020 DL	R1611185-033	102	113	105
BAT-B-8(0)-161020	R1611185-034	105	108	108
BAT-B-17(1)-161020	R1611185-035	108	108	109
Trip Blank	R1611185-036	105	111	109
Lab Control Sample	RQ1612824-03	111	112	108
Method Blank	RQ1612824-04	108	113	109
Lab Control Sample	RQ1613034-03	104	115	110
Method Blank	RQ1613034-04	105	113	108
BAT-EW-2-161019 MS	RQ1613034-05	109	116	112
BAT-EW-2-161019 DMS	RQ1613034-06	109	115	110
Lab Control Sample	RQ1613058-03	105	113	112
Method Blank	RQ1613058-04	103	112	110
BAT-87-08(1)-161020 MS	RQ1613058-05	108	116	112
BAT-87-08(1)-161020 DMS	RQ1613058-06	109	115	111
Lab Control Sample	RQ1613121-03	103	112	109
Method Blank	RQ1613121-04	104	113	109
BAT-87-13(3)-101620 MS	RQ1613121-05	105	113	111
BAT-87-13(3)-101620 DMS	RQ1613121-06	109	115	110
Lab Control Sample	RQ1613189-03	105	114	110
Method Blank	RQ1613189-04	105	113	109

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/26/16
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	BAT-EW-2-161019	**Units:**	ug/L
Lab Code:	R1611185-001	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ1613034-05			**Duplicate Matrix Spike** RQ1613034-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloromethane	2.0 U	103	100	103	95.2	100	95	55-160	8	30
Vinyl Chloride	160 D	273	100	109	268	100	104	60-157	2	30
Chloroethane	2.0 U	110	100	110	101	100	101	70-140	9	30
Bromomethane	2.0 U	18.2	100	18	28.4	100	28	10-162	44*	30
1,1-Dichloroethene	2.0 U	106	100	106	103	100	103	74-139	2	30
Acetone	3.6 DJ	67.6	100	64	82.4	100	79	29-151	20	30
Carbon Disulfide	0.66 DJ	63.9	100	63	66.9	100	66	34-162	5	30
Methylene Chloride	2.0 U	104	100	104	104	100	104	75-121	<1	30
trans-1,2-Dichloroethene	2.7 D	103	100	101	103	100	101	77-125	<1	30
1,1-Dichloroethane	10 D	117	100	107	117	100	107	74-132	<1	30
cis-1,2-Dichloroethene	250 D	360	100	110	365	100	114	72-133	1	30
2-Butanone (MEK)	10 U	80.2	100	80	98.0	100	98	46-141	20	30
Chloroform	0.90 DJ	103	100	102	99.9	100	99	75-130	3	30
1,1,1-Trichloroethane	18 D	114	100	96	112	100	95	74-127	1	30
Carbon Tetrachloride	2.0 U	76.8	100	77	74.4	100	74	65-135	3	30
Benzene	2.0 U	103	100	103	102	100	102	76-129	2	30
1,2-Dichloroethane	2.0 U	94.7	100	95	90.6	100	91	68-130	4	30
Trichloroethene	7.1 D	106	100	98	103	100	96	62-142	3	30
1,2-Dichloropropane	2.0 U	102	100	102	99.1	100	99	79-124	3	30
Bromodichloromethane	2.0 U	83.9	100	84	82.2	100	82	76-127	2	30
cis-1,3-Dichloropropene	2.0 U	75.9	100	76	78.0	100	78	52-134	3	30
4-Methyl-2-pentanone (MIBK)	10 U	85.3	100	85	104	100	104	60-141	20	30
Toluene	2.0 U	103	100	103	102	100	102	79-125	1	30
trans-1,3-Dichloropropene	2.0 U	68.2	100	68	72.7	100	73	50-142	6	30
1,1,2-Trichloroethane	2.0 U	97.8	100	98	97.9	100	98	79-119	<1	30
Tetrachloroethene	2.0 U	92.9	100	93	91.9	100	92	67-137	1	30
2-Hexanone	10 U	80.3	100	80	97.4	100	97	56-132	19	30
Dibromochloromethane	2.0 U	73.9	100	74	74.6	100	75	72-128	<1	30
Chlorobenzene	2.0 U	98.1	100	98	97.2	100	97	76-125	<1	30
Ethylbenzene	2.0 U	101	100	101	98.8	100	99	72-134	3	30
m,p-Xylenes	4.0 U	204	200	102	198	200	99	68-138	3	30
o-Xylene	2.0 U	99.6	100	100	97.9	100	98	68-134	2	30
Styrene	2.0 U	94.6	100	95	96.9	100	97	34-156	2	30
Bromoform	2.0 U	64.1	100	64	68.9	100	69	58-133	7	30
1,1,2,2-Tetrachloroethane	2.0 U	96.6	100	97	102	100	102	72-122	6	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.

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/27/16
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	BAT-87-08(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-032	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ1613058-05			**Duplicate Matrix Spike** RQ1613058-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloromethane	2.5 U	118	125	94	116	125	93	55-160	1	30
Vinyl Chloride	68 D	193	125	100	193	125	100	60-157	<1	30
Chloroethane	2.5 U	130	125	104	139	125	111	70-140	6	30
Bromomethane	2.5 U	30.8	125	25	54.4	125	44	10-162	56*	30
1,1-Dichloroethene	2.1 DJ	139	125	109	141	125	111	74-139	1	30
Acetone	13 U	105	125	84	105	125	84	29-151	<1	30
Carbon Disulfide	2.5 U	85.0	125	68	83.9	125	67	34-162	1	30
Methylene Chloride	2.5 U	136	125	109	137	125	110	75-121	<1	30
trans-1,2-Dichloroethene	2.4 DJ	133	125	104	136	125	107	77-125	3	30
1,1-Dichloroethane	1.4 DJ	139	125	110	143	125	114	74-132	3	30
cis-1,2-Dichloroethene	300 D	431	125	102	429	125	101	72-133	<1	30
2-Butanone (MEK)	13 U	128	125	102	125	125	100	46-141	2	30
Chloroform	2.5 U	131	125	105	134	125	107	75-130	3	30
1,1,1-Trichloroethane	2.5 U	126	125	100	127	125	102	74-127	1	30
Carbon Tetrachloride	2.5 U	98.3	125	79	98.8	125	79	65-135	<1	30
Benzene	2.5 U	134	125	107	133	125	107	76-129	<1	30
1,2-Dichloroethane	2.5 U	120	125	96	122	125	98	68-130	2	30
Trichloroethene	3.6 D	130	125	101	132	125	102	62-142	<1	30
1,2-Dichloropropane	2.5 U	133	125	107	132	125	106	79-124	<1	30
Bromodichloromethane	2.5 U	106	125	85	107	125	85	76-127	<1	30
cis-1,3-Dichloropropene	2.5 U	91.8	125	73	102	125	82	52-134	11	30
4-Methyl-2-pentanone (MIBK)	13 U	130	125	104	129	125	103	60-141	<1	30
Toluene	2.5 U	131	125	105	134	125	107	79-125	2	30
trans-1,3-Dichloropropene	2.5 U	85.0	125	68	93.0	125	74	50-142	9	30
1,1,2-Trichloroethane	2.5 U	125	125	100	129	125	103	79-119	3	30
Tetrachloroethene	2.5 U	118	125	94	124	125	99	67-137	5	30
2-Hexanone	13 U	126	125	101	123	125	99	56-132	3	30
Dibromochloromethane	2.5 U	93.2	125	75	94.9	125	76	72-128	2	30
Chlorobenzene	2.5 U	123	125	98	128	125	103	76-125	4	30
Ethylbenzene	2.5 U	128	125	102	131	125	105	72-134	2	30
m,p-Xylenes	5.0 U	256	250	103	263	250	105	68-138	2	30
o-Xylene	2.5 U	126	125	101	129	125	103	68-134	2	30
Styrene	2.5 U	121	125	97	124	125	99	34-156	2	30
Bromoform	2.5 U	85.5	125	68	87.6	125	70	58-133	2	30
1,1,2,2-Tetrachloroethane	2.5 U	134	125	107	133	125	107	72-122	<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.

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/28/16
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	BAT-87-13(3)-101620	**Units:**	ug/L
Lab Code:	R1611185-027	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ1613121-05			**Duplicate Matrix Spike** RQ1613121-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloromethane	500 U	23700	25000	95	24200	25000	97	55-160	2	30
Vinyl Chloride	610	27100	25000	106	27900	25000	109	60-157	3	30
Chloroethane	500 U	27300	25000	109	27200	25000	109	70-140	<1	30
Bromomethane	500 U	10400	25000	42	15600	25000	62	10-162	40*	30
1,1-Dichloroethene	500 U	27400	25000	110	28000	25000	112	74-139	2	30
Acetone	2500 U	22500	25000	90	24700	25000	99	29-151	9	30
Carbon Disulfide	710	28200	25000	110	29200	25000	114	34-162	3	30
Methylene Chloride	500 U	27500	25000	110	28000	25000	112	75-121	2	30
trans-1,2-Dichloroethene	390 J	26900	25000	106	27500	25000	108	77-125	2	30
1,1-Dichloroethane	500 U	28400	25000	114	28700	25000	115	74-132	1	30
cis-1,2-Dichloroethene	57000	84800	25000	109	86000	25000	114	72-133	1	30
2-Butanone (MEK)	2500 U	24100	25000	96	28000	25000	112	46-141	15	30
Chloroform	810	27300	25000	106	27900	25000	109	75-130	2	30
1,1,1-Trichloroethane	500 U	25000	25000	100	25600	25000	103	74-127	2	30
Carbon Tetrachloride	500 U	21600	25000	87	21900	25000	88	65-135	1	30
Benzene	500 U	26500	25000	106	27100	25000	108	76-129	2	30
1,2-Dichloroethane	500 U	24000	25000	96	24800	25000	99	68-130	3	30
Trichloroethene	72000	95100	25000	93	95700	25000	96	62-142	<1	30
1,2-Dichloropropane	500 U	26000	25000	104	26900	25000	108	79-124	3	30
Bromodichloromethane	210 J	23400	25000	93	23800	25000	94	76-127	2	30
cis-1,3-Dichloropropene	500 U	24000	25000	96	23900	25000	96	52-134	<1	30
4-Methyl-2-pentanone (MIBK)	2500 U	26600	25000	106	28100	25000	112	60-141	5	30
Toluene	500 U	26600	25000	106	26700	25000	107	79-125	<1	30
trans-1,3-Dichloropropene	500 U	21500	25000	86	23000	25000	92	50-142	7	30
1,1,2-Trichloroethane	500 U	25800	25000	103	27100	25000	108	79-119	5	30
Tetrachloroethene	500 U	24000	25000	96	23900	25000	96	67-137	<1	30
2-Hexanone	2500 U	25500	25000	102	27500	25000	110	56-132	8	30
Dibromochloromethane	500 U	23700	25000	95	25100	25000	100	72-128	6	30
Chlorobenzene	500 U	25400	25000	102	25900	25000	103	76-125	2	30
Ethylbenzene	500 U	26400	25000	106	26500	25000	106	72-134	<1	30
m,p-Xylenes	1000 U	53400	50000	107	53600	50000	107	68-138	<1	30
o-Xylene	500 U	25900	25000	104	26400	25000	106	68-134	2	30
Styrene	500 U	26100	25000	105	26800	25000	107	34-156	3	30
Bromoform	500 U	23700	25000	95	26300	25000	105	58-133	10	30
1,1,2,2-Tetrachloroethane	500 U	27700	25000	111	29000	25000	116	72-122	4	30

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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.

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/24/16 11:46
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1612824-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\102416\P5893.D\
Analysis Method:	8260C	**Analysis Lot:**	519947
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1612824-03	I:\ACQUDATA\msvoa12\Data\102416\P5891.D\	10/24/16 10:45
BAT-EW-2-161019	R1611185-001	I:\ACQUDATA\msvoa12\Data\102416\P5902.D\	10/24/16 16:23
BAT-EW-5-101619	R1611185-004	I:\ACQUDATA\msvoa12\Data\102416\P5904.D\	10/24/16 17:23
BAT-93-03(1)-161019	R1611185-006	I:\ACQUDATA\msvoa12\Data\102416\P5906.D\	10/24/16 18:23
BAT-87-22(1)-161019	R1611185-008	I:\ACQUDATA\msvoa12\Data\102416\P5907.D\	10/24/16 18:53
BAT-87-08(1)-161020	R1611185-032	I:\ACQUDATA\msvoa12\Data\102416\P5910.D\	10/24/16 20:24

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/26/16 10:21
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1613034-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\102616\P5953.D\
Analysis Method:	8260C	**Analysis Lot:**	520597
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1613034-03	I:\ACQUDATA\msvoa12\Data\102616\P5951.D\	10/26/16 09:21
BAT-FB-1-161019	R1611185-018	I:\ACQUDATA\msvoa12\Data\102616\P5954.D\	10/26/16 10:51
BAT-EW-4-161019	R1611185-003	I:\ACQUDATA\msvoa12\Data\102616\P5955.D\	10/26/16 11:22
BAT-EW-6-101619	R1611185-005	I:\ACQUDATA\msvoa12\Data\102616\P5956.D\	10/26/16 11:52
BAT-89-04(1)-161019	R1611185-007	I:\ACQUDATA\msvoa12\Data\102616\P5957.D\	10/26/16 12:22
BAT-87-19(1)-161019	R1611185-011	I:\ACQUDATA\msvoa12\Data\102616\P5958.D\	10/26/16 12:52
BAT-87-20(0)-161019	R1611185-013	I:\ACQUDATA\msvoa12\Data\102616\P5959.D\	10/26/16 13:22
BAT-DW-12-161019	R1611185-020	I:\ACQUDATA\msvoa12\Data\102616\P5960.D\	10/26/16 13:53
BAT-EW-5-101619	R1611185-004	I:\ACQUDATA\msvoa12\Data\102616\P5961.D\	10/26/16 14:23
BAT-87-22(1)-161019	R1611185-008	I:\ACQUDATA\msvoa12\Data\102616\P5962.D\	10/26/16 14:54
BAT-EW-3-161019	R1611185-002	I:\ACQUDATA\msvoa12\Data\102616\P5963.D\	10/26/16 15:24
DUP #1	R1611185-009	I:\ACQUDATA\msvoa12\Data\102616\P5964.D\	10/26/16 15:54
BAT-87-21(1)-161019	R1611185-010	I:\ACQUDATA\msvoa12\Data\102616\P5965.D\	10/26/16 16:24
BAT-89-14(1)-161019	R1611185-014	I:\ACQUDATA\msvoa12\Data\102616\P5966.D\	10/26/16 16:54
BAT-EW-2-161019	R1611185-001	I:\ACQUDATA\msvoa12\Data\102616\P5967.D\	10/26/16 17:24
BAT-EW-2-161019	RQ1613034-05	I:\ACQUDATA\msvoa12\Data\102616\P5968.D\	10/26/16 17:54
BAT-EW-2-161019	RQ1613034-06	I:\ACQUDATA\msvoa12\Data\102616\P5969.D\	10/26/16 18:24

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/27/16 12:50
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank **Instrument ID:** R-MS-12
Lab Code: RQ1613058-04 **File ID:** I:\ACQUDATA\msvoa12\Data\102716\P6003.D\

Analysis Method: 8260C **Analysis Lot:** 520680
Prep Method: EPA 5030C

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1613058-03	I:\ACQUDATA\msvoa12\Data\102716\P6001.D\	10/27/16 11:49
Trip Blank	R1611185-036	I:\ACQUDATA\msvoa12\Data\102716\P6004.D\	10/27/16 13:20
BAT-FB-2-101620	R1611185-025	I:\ACQUDATA\msvoa12\Data\102716\P6005.D\	10/27/16 13:51
BAT-87-02(3)-161020	R1611185-022	I:\ACQUDATA\msvoa12\Data\102716\P6006.D\	10/27/16 14:20
BAT-87-10(0)-161020	R1611185-023	I:\ACQUDATA\msvoa12\Data\102716\P6007.D\	10/27/16 14:51
BAT-87-14(0)-161020	R1611185-030	I:\ACQUDATA\msvoa12\Data\102716\P6008.D\	10/27/16 15:21
BAT-87-08(1)-161020	R1611185-032	I:\ACQUDATA\msvoa12\Data\102716\P6009.D\	10/27/16 15:51
BAT-87-21(1)-161019	R1611185-010	I:\ACQUDATA\msvoa12\Data\102716\P6010.D\	10/27/16 16:21
BAT-EW-7-161019	R1611185-015	I:\ACQUDATA\msvoa12\Data\102716\P6011.D\	10/27/16 16:51
BAT-EW-13-161019	R1611185-016	I:\ACQUDATA\msvoa12\Data\102716\P6012.D\	10/27/16 17:23
BAT-EW-8-161019	R1611185-017	I:\ACQUDATA\msvoa12\Data\102716\P6013.D\	10/27/16 17:53
BAT-87-01(1)-161019	R1611185-019	I:\ACQUDATA\msvoa12\Data\102716\P6014.D\	10/27/16 18:23
DUP #1	R1611185-009	I:\ACQUDATA\msvoa12\Data\102716\P6015.D\	10/27/16 18:53
BAT-DW-12-161019	R1611185-020	I:\ACQUDATA\msvoa12\Data\102716\P6016.D\	10/27/16 19:23
BAT-87-02(1)-161020	R1611185-021	I:\ACQUDATA\msvoa12\Data\102716\P6017.D\	10/27/16 19:53
BAT-87-20(1)-101619	R1611185-012	I:\ACQUDATA\msvoa12\Data\102716\P6018.D\	10/27/16 20:23
BAT-87-08(1)-161020	RQ1613058-05	I:\ACQUDATA\msvoa12\Data\102716\P6019.D\	10/27/16 20:53
BAT-87-08(1)-161020	RQ1613058-06	I:\ACQUDATA\msvoa12\Data\102716\P6020.D\	10/27/16 21:23

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/28/16 00:23
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1613121-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\102716\P6026.D\
Analysis Method:	8260C	**Analysis Lot:**	520887
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1613121-03	I:\ACQUDATA\msvoa12\Data\102716\P6024.D\	10/27/16 23:23
BAT-DUP-2-161020	R1611185-031	I:\ACQUDATA\msvoa12\Data\102716\P6027.D\	10/28/16 00:53
BAT-DW-9-161020	R1611185-033	I:\ACQUDATA\msvoa12\Data\102716\P6028.D\	10/28/16 01:23
BAT-DW-10-161020	R1611185-028	I:\ACQUDATA\msvoa12\Data\102716\P6032.D\	10/28/16 03:24
BAT-89-15(1)-161020	R1611185-029	I:\ACQUDATA\msvoa12\Data\102716\P6034.D\	10/28/16 04:24
BAT-87-13(3)-101620	R1611185-027	I:\ACQUDATA\msvoa12\Data\102716\P6035.D\	10/28/16 04:54
BAT-87-13(3)-101620	RQ1613121-05	I:\ACQUDATA\msvoa12\Data\102716\P6036.D\	10/28/16 05:24
BAT-87-13(3)-101620	RQ1613121-06	I:\ACQUDATA\msvoa12\Data\102716\P6037.D\	10/28/16 05:54

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/28/16 11:43
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1613189-04

Instrument ID:R-MS-12
File ID:I:\ACQUDATA\msvoa12\Data\102816\P6047.D\

Analysis Method: 8260C
Prep Method: EPA 5030C

Analysis Lot:521126

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1613189-03	I:\ACQUDATA\msvoa12\Data\102816\P6045.D\	10/28/16 10:43
BAT-B-14(1)-101620	R1611185-026	I:\ACQUDATA\msvoa12\Data\102816\P6048.D\	10/28/16 12:13
BAT-B-8(0)-161020	R1611185-034	I:\ACQUDATA\msvoa12\Data\102816\P6049.D\	10/28/16 12:43
BAT-B-17(1)-161020	R1611185-035	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	10/28/16 13:13
BAT-DW-11-161020	R1611185-024	I:\ACQUDATA\msvoa12\Data\102816\P6051.D\	10/28/16 13:44
BAT-DW-10-161020	R1611185-028	I:\ACQUDATA\msvoa12\Data\102816\P6053.D\	10/28/16 14:44
BAT-89-15(1)-161020	R1611185-029	I:\ACQUDATA\msvoa12\Data\102816\P6054.D\	10/28/16 15:14
BAT-DW-9-161020	R1611185-033	I:\ACQUDATA\msvoa12\Data\102816\P6055.D\	10/28/16 15:44

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1612824-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 11:46	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/24/16 11:46	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 11:46	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 11:46	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/24/16 11:46	
Acetone	5.0 U	5.0	1.3	1	10/24/16 11:46	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/24/16 11:46	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 11:46	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/24/16 11:46	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/24/16 11:46	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/24/16 11:46	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 11:46	
Chloroform	1.0 U	1.0	0.25	1	10/24/16 11:46	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/24/16 11:46	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 11:46	
Benzene	1.0 U	1.0	0.20	1	10/24/16 11:46	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 11:46	
Trichloroethene	1.0 U	1.0	0.22	1	10/24/16 11:46	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 11:46	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 11:46	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 11:46	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 11:46	
Toluene	1.0 U	1.0	0.20	1	10/24/16 11:46	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 11:46	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 11:46	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 11:46	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 11:46	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 11:46	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 11:46	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 11:46	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 11:46	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 11:46	
Styrene	1.0 U	1.0	0.20	1	10/24/16 11:46	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 11:46	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 11:46	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1612824-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	10/24/16 11:46	
Toluene-d8	113	87 - 121	10/24/16 11:46	
Dibromofluoromethane	109	89 - 119	10/24/16 11:46	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613034-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 10:21	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/26/16 10:21	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 10:21	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 10:21	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 10:21	
Acetone	5.0 U	5.0	1.3	1	10/26/16 10:21	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 10:21	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 10:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 10:21	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 10:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/26/16 10:21	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 10:21	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 10:21	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 10:21	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 10:21	
Benzene	1.0 U	1.0	0.20	1	10/26/16 10:21	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 10:21	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 10:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 10:21	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 10:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 10:21	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 10:21	
Toluene	1.0 U	1.0	0.20	1	10/26/16 10:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 10:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 10:21	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 10:21	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 10:21	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 10:21	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 10:21	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 10:21	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 10:21	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 10:21	
Styrene	1.0 U	1.0	0.20	1	10/26/16 10:21	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 10:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 10:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613034-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 10:21	
Toluene-d8	113	87 - 121	10/26/16 10:21	
Dibromofluoromethane	108	89 - 119	10/26/16 10:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613058-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 12:50	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 12:50	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 12:50	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 12:50	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 12:50	
Acetone	5.0 U	5.0	1.3	1	10/27/16 12:50	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 12:50	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 12:50	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 12:50	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 12:50	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 12:50	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 12:50	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 12:50	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 12:50	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 12:50	
Benzene	1.0 U	1.0	0.20	1	10/27/16 12:50	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 12:50	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 12:50	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 12:50	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 12:50	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 12:50	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 12:50	
Toluene	1.0 U	1.0	0.20	1	10/27/16 12:50	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 12:50	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 12:50	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 12:50	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 12:50	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 12:50	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 12:50	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 12:50	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 12:50	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 12:50	
Styrene	1.0 U	1.0	0.20	1	10/27/16 12:50	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 12:50	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 12:50	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613058-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/27/16 12:50	
Toluene-d8	112	87 - 121	10/27/16 12:50	
Dibromofluoromethane	110	89 - 119	10/27/16 12:50	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613121-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 00:23	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/28/16 00:23	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 00:23	
Bromomethane	**0.67 J**	1.0	0.29	1	10/28/16 00:23	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/28/16 00:23	
Acetone	5.0 U	5.0	1.3	1	10/28/16 00:23	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 00:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 00:23	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/28/16 00:23	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/16 00:23	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/28/16 00:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 00:23	
Chloroform	1.0 U	1.0	0.25	1	10/28/16 00:23	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/28/16 00:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 00:23	
Benzene	1.0 U	1.0	0.20	1	10/28/16 00:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 00:23	
Trichloroethene	1.0 U	1.0	0.22	1	10/28/16 00:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 00:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 00:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 00:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 00:23	
Toluene	1.0 U	1.0	0.20	1	10/28/16 00:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 00:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 00:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 00:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 00:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 00:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 00:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 00:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 00:23	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 00:23	
Styrene	1.0 U	1.0	0.20	1	10/28/16 00:23	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 00:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 00:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613121-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/28/16 00:23	
Toluene-d8	113	87 - 121	10/28/16 00:23	
Dibromofluoromethane	109	89 - 119	10/28/16 00:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613189-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 11:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/28/16 11:43	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 11:43	
Bromomethane	**0.44 J**	1.0	0.29	1	10/28/16 11:43	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/28/16 11:43	
Acetone	5.0 U	5.0	1.3	1	10/28/16 11:43	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 11:43	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 11:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/28/16 11:43	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/16 11:43	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/28/16 11:43	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 11:43	
Chloroform	1.0 U	1.0	0.25	1	10/28/16 11:43	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/28/16 11:43	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 11:43	
Benzene	1.0 U	1.0	0.20	1	10/28/16 11:43	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 11:43	
Trichloroethene	1.0 U	1.0	0.22	1	10/28/16 11:43	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 11:43	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 11:43	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 11:43	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 11:43	
Toluene	1.0 U	1.0	0.20	1	10/28/16 11:43	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 11:43	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 11:43	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 11:43	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 11:43	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 11:43	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 11:43	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 11:43	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 11:43	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 11:43	
Styrene	1.0 U	1.0	0.20	1	10/28/16 11:43	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 11:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 11:43	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613189-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 11:43	
Toluene-d8	113	87 - 121	10/28/16 11:43	
Dibromofluoromethane	109	89 - 119	10/28/16 11:43	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/24/16 10:45
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1612824-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\102416\P5891.D\
Analysis Method:	8260C	**Analysis Lot:**	519947
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1612824-04	I:\ACQUDATA\msvoa12\Data\102416\P5893.D\	10/24/16 11:46
BAT-EW-2-161019	R1611185-001	I:\ACQUDATA\msvoa12\Data\102416\P5902.D\	10/24/16 16:23
BAT-EW-5-101619	R1611185-004	I:\ACQUDATA\msvoa12\Data\102416\P5904.D\	10/24/16 17:23
BAT-93-03(1)-161019	R1611185-006	I:\ACQUDATA\msvoa12\Data\102416\P5906.D\	10/24/16 18:23
BAT-87-22(1)-161019	R1611185-008	I:\ACQUDATA\msvoa12\Data\102416\P5907.D\	10/24/16 18:53
BAT-87-08(1)-161020	R1611185-032	I:\ACQUDATA\msvoa12\Data\102416\P5910.D\	10/24/16 20:24

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/26/16 09:21
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:**R-MS-12
Lab Code: RQ1613034-03 **File ID:**I:\ACQUDATA\msvoa12\Data\102616\P5951.D\

Analysis Method: 8260C **Analysis Lot:**520597
Prep Method: EPA 5030C

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1613034-04	I:\ACQUDATA\msvoa12\Data\102616\P5953.D\	10/26/16 10:21
BAT-FB-1-161019	R1611185-018	I:\ACQUDATA\msvoa12\Data\102616\P5954.D\	10/26/16 10:51
BAT-EW-4-161019	R1611185-003	I:\ACQUDATA\msvoa12\Data\102616\P5955.D\	10/26/16 11:22
BAT-EW-6-101619	R1611185-005	I:\ACQUDATA\msvoa12\Data\102616\P5956.D\	10/26/16 11:52
BAT-89-04(1)-161019	R1611185-007	I:\ACQUDATA\msvoa12\Data\102616\P5957.D\	10/26/16 12:22
BAT-87-19(1)-161019	R1611185-011	I:\ACQUDATA\msvoa12\Data\102616\P5958.D\	10/26/16 12:52
BAT-87-20(0)-161019	R1611185-013	I:\ACQUDATA\msvoa12\Data\102616\P5959.D\	10/26/16 13:22
BAT-DW-12-161019	R1611185-020	I:\ACQUDATA\msvoa12\Data\102616\P5960.D\	10/26/16 13:53
BAT-EW-5-101619	R1611185-004	I:\ACQUDATA\msvoa12\Data\102616\P5961.D\	10/26/16 14:23
BAT-87-22(1)-161019	R1611185-008	I:\ACQUDATA\msvoa12\Data\102616\P5962.D\	10/26/16 14:54
BAT-EW-3-161019	R1611185-002	I:\ACQUDATA\msvoa12\Data\102616\P5963.D\	10/26/16 15:24
DUP #1	R1611185-009	I:\ACQUDATA\msvoa12\Data\102616\P5964.D\	10/26/16 15:54
BAT-87-21(1)-161019	R1611185-010	I:\ACQUDATA\msvoa12\Data\102616\P5965.D\	10/26/16 16:24
BAT-89-14(1)-161019	R1611185-014	I:\ACQUDATA\msvoa12\Data\102616\P5966.D\	10/26/16 16:54
BAT-EW-2-161019	R1611185-001	I:\ACQUDATA\msvoa12\Data\102616\P5967.D\	10/26/16 17:24
BAT-EW-2-161019	RQ1613034-05	I:\ACQUDATA\msvoa12\Data\102616\P5968.D\	10/26/16 17:54
BAT-EW-2-161019	RQ1613034-06	I:\ACQUDATA\msvoa12\Data\102616\P5969.D\	10/26/16 18:24

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/27/16 11:49
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:**R-MS-12
Lab Code: RQ1613058-03 **File ID:**I:\ACQUDATA\msvoa12\Data\102716\P6001.D\

Analysis Method: 8260C **Analysis Lot:**520680
Prep Method: EPA 5030C

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1613058-04	I:\ACQUDATA\msvoa12\Data\102716\P6003.D\	10/27/16 12:50
Trip Blank	R1611185-036	I:\ACQUDATA\msvoa12\Data\102716\P6004.D\	10/27/16 13:20
BAT-FB-2-101620	R1611185-025	I:\ACQUDATA\msvoa12\Data\102716\P6005.D\	10/27/16 13:51
BAT-87-02(3)-161020	R1611185-022	I:\ACQUDATA\msvoa12\Data\102716\P6006.D\	10/27/16 14:20
BAT-87-10(0)-161020	R1611185-023	I:\ACQUDATA\msvoa12\Data\102716\P6007.D\	10/27/16 14:51
BAT-87-14(0)-161020	R1611185-030	I:\ACQUDATA\msvoa12\Data\102716\P6008.D\	10/27/16 15:21
BAT-87-08(1)-161020	R1611185-032	I:\ACQUDATA\msvoa12\Data\102716\P6009.D\	10/27/16 15:51
BAT-87-21(1)-161019	R1611185-010	I:\ACQUDATA\msvoa12\Data\102716\P6010.D\	10/27/16 16:21
BAT-EW-7-161019	R1611185-015	I:\ACQUDATA\msvoa12\Data\102716\P6011.D\	10/27/16 16:51
BAT-EW-13-161019	R1611185-016	I:\ACQUDATA\msvoa12\Data\102716\P6012.D\	10/27/16 17:23
BAT-EW-8-161019	R1611185-017	I:\ACQUDATA\msvoa12\Data\102716\P6013.D\	10/27/16 17:53
BAT-87-01(1)-161019	R1611185-019	I:\ACQUDATA\msvoa12\Data\102716\P6014.D\	10/27/16 18:23
DUP #1	R1611185-009	I:\ACQUDATA\msvoa12\Data\102716\P6015.D\	10/27/16 18:53
BAT-DW-12-161019	R1611185-020	I:\ACQUDATA\msvoa12\Data\102716\P6016.D\	10/27/16 19:23
BAT-87-02(1)-161020	R1611185-021	I:\ACQUDATA\msvoa12\Data\102716\P6017.D\	10/27/16 19:53
BAT-87-20(1)-101619	R1611185-012	I:\ACQUDATA\msvoa12\Data\102716\P6018.D\	10/27/16 20:23
BAT-87-08(1)-161020	RQ1613058-05	I:\ACQUDATA\msvoa12\Data\102716\P6019.D\	10/27/16 20:53
BAT-87-08(1)-161020	RQ1613058-06	I:\ACQUDATA\msvoa12\Data\102716\P6020.D\	10/27/16 21:23

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Analyzed:**	10/27/16 23:23
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ1613121-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\102716\P6024.D\
Analysis Method:	8260C	**Analysis Lot:**	520887
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1613121-04	I:\ACQUDATA\msvoa12\Data\102716\P6026.D\	10/28/16 00:23
BAT-DUP-2-161020	R1611185-031	I:\ACQUDATA\msvoa12\Data\102716\P6027.D\	10/28/16 00:53
BAT-DW-9-161020	R1611185-033	I:\ACQUDATA\msvoa12\Data\102716\P6028.D\	10/28/16 01:23
BAT-DW-10-161020	R1611185-028	I:\ACQUDATA\msvoa12\Data\102716\P6032.D\	10/28/16 03:24
BAT-89-15(1)-161020	R1611185-029	I:\ACQUDATA\msvoa12\Data\102716\P6034.D\	10/28/16 04:24
BAT-87-13(3)-101620	R1611185-027	I:\ACQUDATA\msvoa12\Data\102716\P6035.D\	10/28/16 04:54
BAT-87-13(3)-101620	RQ1613121-05	I:\ACQUDATA\msvoa12\Data\102716\P6036.D\	10/28/16 05:24
BAT-87-13(3)-101620	RQ1613121-06	I:\ACQUDATA\msvoa12\Data\102716\P6037.D\	10/28/16 05:54

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/28/16 10:43
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ1613189-03

Instrument ID:R-MS-12
File ID:I:\ACQUDATA\msvoa12\Data\102816\P6045.D\

Analysis Method: 8260C
Prep Method: EPA 5030C

Analysis Lot:521126

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1613189-04	I:\ACQUDATA\msvoa12\Data\102816\P6047.D\	10/28/16 11:43
BAT-B-14(1)-101620	R1611185-026	I:\ACQUDATA\msvoa12\Data\102816\P6048.D\	10/28/16 12:13
BAT-B-8(0)-161020	R1611185-034	I:\ACQUDATA\msvoa12\Data\102816\P6049.D\	10/28/16 12:43
BAT-B-17(1)-161020	R1611185-035	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	10/28/16 13:13
BAT-DW-11-161020	R1611185-024	I:\ACQUDATA\msvoa12\Data\102816\P6051.D\	10/28/16 13:44
BAT-DW-10-161020	R1611185-028	I:\ACQUDATA\msvoa12\Data\102816\P6053.D\	10/28/16 14:44
BAT-89-15(1)-161020	R1611185-029	I:\ACQUDATA\msvoa12\Data\102816\P6054.D\	10/28/16 15:14
BAT-DW-9-161020	R1611185-033	I:\ACQUDATA\msvoa12\Data\102816\P6055.D\	10/28/16 15:44

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/24/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1612824-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	24.2	20.0	121	69-145
Vinyl Chloride	8260C	23.7	20.0	118	69-133
Chloroethane	8260C	23.1	20.0	115	70-127
Bromomethane	8260C	22.8	20.0	114	42-166
1,1-Dichloroethene	8260C	22.6	20.0	113	74-135
Acetone	8260C	24.1	20.0	120	40-161
Carbon Disulfide	8260C	24.9	20.0	125	65-127
Methylene Chloride	8260C	23.1	20.0	116	73-122
trans-1,2-Dichloroethene	8260C	22.6	20.0	113	80-120
1,1-Dichloroethane	8260C	24.3	20.0	121 *	78-117
cis-1,2-Dichloroethene	8260C	24.5	20.0	122 *	80-121
2-Butanone (MEK)	8260C	24.4	20.0	122	61-137
Chloroform	8260C	22.8	20.0	114	76-120
1,1,1-Trichloroethane	8260C	21.5	20.0	107	74-120
Carbon Tetrachloride	8260C	18.4	20.0	92	68-125
Benzene	8260C	22.0	20.0	110	76-118
1,2-Dichloroethane	8260C	20.8	20.0	104	71-127
Trichloroethene	8260C	20.3	20.0	101	78-123
1,2-Dichloropropane	8260C	22.7	20.0	114	80-119
Bromodichloromethane	8260C	19.4	20.0	97	78-126
cis-1,3-Dichloropropene	8260C	21.6	20.0	108	74-126
4-Methyl-2-pentanone (MIBK)	8260C	23.2	20.0	116	66-124
Toluene	8260C	22.2	20.0	111	77-120
trans-1,3-Dichloropropene	8260C	19.6	20.0	98	67-135
1,1,2-Trichloroethane	8260C	21.9	20.0	109	82-118
Tetrachloroethene	8260C	18.7	20.0	93	78-124
2-Hexanone	8260C	21.7	20.0	109	63-124
Dibromochloromethane	8260C	19.1	20.0	96	77-128
Chlorobenzene	8260C	20.6	20.0	103	80-121
Ethylbenzene	8260C	20.9	20.0	105	76-120
m,p-Xylenes	8260C	43.3	40.0	108	78-123
o-Xylene	8260C	20.8	20.0	104	80-120
Styrene	8260C	20.7	20.0	103	80-124

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/24/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1612824-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	20.2	20.0	101	71-136
1,1,2,2-Tetrachloroethane	8260C	22.8	20.0	114	78-122

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/26/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613034-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	19.0	20.0	95	69-145
Vinyl Chloride	8260C	18.5	20.0	93	69-133
Chloroethane	8260C	19.7	20.0	99	70-127
Bromomethane	8260C	15.0	20.0	75	42-166
1,1-Dichloroethene	8260C	17.9	20.0	90	74-135
Acetone	8260C	26.0	20.0	130	40-161
Carbon Disulfide	8260C	19.7	20.0	98	65-127
Methylene Chloride	8260C	20.6	20.0	103	73-122
trans-1,2-Dichloroethene	8260C	19.1	20.0	96	80-120
1,1-Dichloroethane	8260C	20.2	20.0	101	78-117
cis-1,2-Dichloroethene	8260C	22.2	20.0	111	80-121
2-Butanone (MEK)	8260C	24.5	20.0	122	61-137
Chloroform	8260C	19.4	20.0	97	76-120
1,1,1-Trichloroethane	8260C	17.2	20.0	86	74-120
Carbon Tetrachloride	8260C	14.9	20.0	74	68-125
Benzene	8260C	19.4	20.0	97	76-118
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
Trichloroethene	8260C	18.5	20.0	92	78-123
1,2-Dichloropropane	8260C	20.2	20.0	101	80-119
Bromodichloromethane	8260C	17.4	20.0	87	78-126
cis-1,3-Dichloropropene	8260C	18.8	20.0	94	74-126
4-Methyl-2-pentanone (MIBK)	8260C	21.9	20.0	109	66-124
Toluene	8260C	19.3	20.0	97	77-120
trans-1,3-Dichloropropene	8260C	17.9	20.0	90	67-135
1,1,2-Trichloroethane	8260C	20.7	20.0	103	82-118
Tetrachloroethene	8260C	16.3	20.0	81	78-124
2-Hexanone	8260C	22.0	20.0	110	63-124
Dibromochloromethane	8260C	18.5	20.0	92	77-128
Chlorobenzene	8260C	19.7	20.0	98	80-121
Ethylbenzene	8260C	19.4	20.0	97	76-120
m,p-Xylenes	8260C	39.7	40.0	99	78-123
o-Xylene	8260C	19.1	20.0	95	80-120
Styrene	8260C	19.9	20.0	99	80-124

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/26/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613034-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	19.2	20.0	96	71-136
1,1,2,2-Tetrachloroethane	8260C	22.6	20.0	113	78-122

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/27/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613058-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	21.8	20.0	109	69-145
Vinyl Chloride	8260C	21.2	20.0	106	69-133
Chloroethane	8260C	21.5	20.0	107	70-127
Bromomethane	8260C	15.0	20.0	75	42-166
1,1-Dichloroethene	8260C	22.4	20.0	112	74-135
Acetone	8260C	23.0	20.0	115	40-161
Carbon Disulfide	8260C	21.0	20.0	105	65-127
Methylene Chloride	8260C	22.6	20.0	113	73-122
trans-1,2-Dichloroethene	8260C	21.6	20.0	108	80-120
1,1-Dichloroethane	8260C	22.7	20.0	114	78-117
cis-1,2-Dichloroethene	8260C	23.1	20.0	116	80-121
2-Butanone (MEK)	8260C	24.4	20.0	122	61-137
Chloroform	8260C	22.2	20.0	111	76-120
1,1,1-Trichloroethane	8260C	20.6	20.0	103	74-120
Carbon Tetrachloride	8260C	16.9	20.0	84	68-125
Benzene	8260C	22.2	20.0	111	76-118
1,2-Dichloroethane	8260C	20.5	20.0	103	71-127
Trichloroethene	8260C	20.8	20.0	104	78-123
1,2-Dichloropropane	8260C	21.9	20.0	110	80-119
Bromodichloromethane	8260C	19.0	20.0	95	78-126
cis-1,3-Dichloropropene	8260C	20.6	20.0	103	74-126
4-Methyl-2-pentanone (MIBK)	8260C	20.4	20.0	102	66-124
Toluene	8260C	22.0	20.0	110	77-120
trans-1,3-Dichloropropene	8260C	18.8	20.0	94	67-135
1,1,2-Trichloroethane	8260C	21.2	20.0	106	82-118
Tetrachloroethene	8260C	20.5	20.0	103	78-124
2-Hexanone	8260C	21.5	20.0	107	63-124
Dibromochloromethane	8260C	19.1	20.0	95	77-128
Chlorobenzene	8260C	21.4	20.0	107	80-121
Ethylbenzene	8260C	21.1	20.0	105	76-120
m,p-Xylenes	8260C	44.7	40.0	112	78-123
o-Xylene	8260C	21.3	20.0	107	80-120
Styrene	8260C	22.1	20.0	110	80-124

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/27/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613058-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	18.5	20.0	92	71-136
1,1,2,2-Tetrachloroethane	8260C	22.9	20.0	115	78-122

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/27/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613121-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	20.4	20.0	102	69-145
Vinyl Chloride	8260C	20.1	20.0	100	69-133
Chloroethane	8260C	21.0	20.0	105	70-127
Bromomethane	8260C	14.6	20.0	73	42-166
1,1-Dichloroethene	8260C	21.3	20.0	107	74-135
Acetone	8260C	28.0	20.0	140	40-161
Carbon Disulfide	8260C	23.6	20.0	118	65-127
Methylene Chloride	8260C	21.4	20.0	107	73-122
trans-1,2-Dichloroethene	8260C	22.2	20.0	111	80-120
1,1-Dichloroethane	8260C	23.1	20.0	116	78-117
cis-1,2-Dichloroethene	8260C	23.5	20.0	117	80-121
2-Butanone (MEK)	8260C	26.5	20.0	133	61-137
Chloroform	8260C	21.3	20.0	107	76-120
1,1,1-Trichloroethane	8260C	20.1	20.0	101	74-120
Carbon Tetrachloride	8260C	17.4	20.0	87	68-125
Benzene	8260C	21.6	20.0	108	76-118
1,2-Dichloroethane	8260C	19.9	20.0	100	71-127
Trichloroethene	8260C	22.2	20.0	111	78-123
1,2-Dichloropropane	8260C	21.0	20.0	105	80-119
Bromodichloromethane	8260C	18.8	20.0	94	78-126
cis-1,3-Dichloropropene	8260C	19.4	20.0	97	74-126
4-Methyl-2-pentanone (MIBK)	8260C	24.4	20.0	122	66-124
Toluene	8260C	21.5	20.0	108	77-120
trans-1,3-Dichloropropene	8260C	17.5	20.0	88	67-135
1,1,2-Trichloroethane	8260C	21.0	20.0	105	82-118
Tetrachloroethene	8260C	19.2	20.0	96	78-124
2-Hexanone	8260C	26.2	20.0	131 *	63-124
Dibromochloromethane	8260C	19.6	20.0	98	77-128
Chlorobenzene	8260C	21.2	20.0	106	80-121
Ethylbenzene	8260C	21.6	20.0	108	76-120
m,p-Xylenes	8260C	44.4	40.0	111	78-123
o-Xylene	8260C	21.6	20.0	108	80-120
Styrene	8260C	21.6	20.0	108	80-124

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/27/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613121-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	19.6	20.0	98	71-136
1,1,2,2-Tetrachloroethane	8260C	21.4	20.0	107	78-122

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/28/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613189-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	20.8	20.0	104	69-145
Vinyl Chloride	8260C	19.9	20.0	99	69-133
Chloroethane	8260C	20.1	20.0	100	70-127
Bromomethane	8260C	13.1	20.0	66	42-166
1,1-Dichloroethene	8260C	20.7	20.0	103	74-135
Acetone	8260C	21.5	20.0	107	40-161
Carbon Disulfide	8260C	21.7	20.0	109	65-127
Methylene Chloride	8260C	21.6	20.0	108	73-122
trans-1,2-Dichloroethene	8260C	20.5	20.0	102	80-120
1,1-Dichloroethane	8260C	21.6	20.0	108	78-117
cis-1,2-Dichloroethene	8260C	22.3	20.0	111	80-121
2-Butanone (MEK)	8260C	24.0	20.0	120	61-137
Chloroform	8260C	20.7	20.0	103	76-120
1,1,1-Trichloroethane	8260C	19.2	20.0	96	74-120
Carbon Tetrachloride	8260C	17.6	20.0	88	68-125
Benzene	8260C	20.5	20.0	103	76-118
1,2-Dichloroethane	8260C	20.3	20.0	101	71-127
Trichloroethene	8260C	19.5	20.0	97	78-123
1,2-Dichloropropane	8260C	20.9	20.0	104	80-119
Bromodichloromethane	8260C	19.1	20.0	95	78-126
cis-1,3-Dichloropropene	8260C	21.0	20.0	105	74-126
4-Methyl-2-pentanone (MIBK)	8260C	24.1	20.0	121	66-124
Toluene	8260C	20.7	20.0	103	77-120
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	67-135
1,1,2-Trichloroethane	8260C	21.2	20.0	106	82-118
Tetrachloroethene	8260C	18.8	20.0	94	78-124
2-Hexanone	8260C	23.1	20.0	116	63-124
Dibromochloromethane	8260C	19.1	20.0	96	77-128
Chlorobenzene	8260C	20.1	20.0	101	80-121
Ethylbenzene	8260C	21.0	20.0	105	76-120
m,p-Xylenes	8260C	42.2	40.0	105	78-123
o-Xylene	8260C	20.0	20.0	100	80-120
Styrene	8260C	20.3	20.0	102	80-124

Client: CB&I
Project: Textron Wheatfield-Annual Wells/156045
Sample Matrix: Water

Service Request: R1611185
Date Analyzed: 10/28/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613189-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	19.5	20.0	98	71-136
1,1,2,2-Tetrachloroethane	8260C	24.2	20.0	121	78-122

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:**10/24/16 09:40

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\102416\P5889.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 519947

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.33	88116	Pass
75	95	30	60	49.71	215467	Pass
95	95	100	100	100.00	433429	Pass
96	95	5	9	6.77	29349	Pass
173	174	0	2	1.60	5363	Pass
174	95	50	120	77.47	335787	Pass
175	174	5	9	8.06	27077	Pass
176	174	95	101	96.57	324277	Pass
177	176	5	9	6.21	20126	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1612824-02	I:\ACQUDATA\msvoa12\Data\102416\P5890.D\	10/24/16 10:13	
Lab Control Sample	RQ1612824-03	I:\ACQUDATA\msvoa12\Data\102416\P5891.D\	10/24/16 10:45	
Method Blank	RQ1612824-04	I:\ACQUDATA\msvoa12\Data\102416\P5893.D\	10/24/16 11:46	
BAT-EW-2-161019	R1611185-001	I:\ACQUDATA\msvoa12\Data\102416\P5902.D\	10/24/16 16:23	
BAT-EW-5-101619	R1611185-004	I:\ACQUDATA\msvoa12\Data\102416\P5904.D\	10/24/16 17:23	
BAT-93-03(1)-161019	R1611185-006	I:\ACQUDATA\msvoa12\Data\102416\P5906.D\	10/24/16 18:23	
BAT-87-22(1)-161019	R1611185-008	I:\ACQUDATA\msvoa12\Data\102416\P5907.D\	10/24/16 18:53	
BAT-87-08(1)-161020	R1611185-032	I:\ACQUDATA\msvoa12\Data\102416\P5910.D\	10/24/16 20:24	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:**10/24/16 09:40

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\102616\P5949.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 520597

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.00	79403	Pass
75	95	30	60	49.09	194882	Pass
95	95	100	100	100.00	397026	Pass
96	95	5	9	6.65	26397	Pass
173	174	0	2	1.58	5129	Pass
174	95	50	120	81.60	323989	Pass
175	174	5	9	7.18	23251	Pass
176	174	95	101	96.57	312875	Pass
177	176	5	9	6.34	19846	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1613034-02	I:\ACQUDATA\msvoa12\Data\102616\P5950.D\	10/26/16 08:42	
Lab Control Sample	RQ1613034-03	I:\ACQUDATA\msvoa12\Data\102616\P5951.D\	10/26/16 09:21	
Method Blank	RQ1613034-04	I:\ACQUDATA\msvoa12\Data\102616\P5953.D\	10/26/16 10:21	
BAT-FB-1-161019	R1611185-018	I:\ACQUDATA\msvoa12\Data\102616\P5954.D\	10/26/16 10:51	
BAT-EW-4-161019	R1611185-003	I:\ACQUDATA\msvoa12\Data\102616\P5955.D\	10/26/16 11:22	
BAT-EW-6-101619	R1611185-005	I:\ACQUDATA\msvoa12\Data\102616\P5956.D\	10/26/16 11:52	
BAT-89-04(1)-161019	R1611185-007	I:\ACQUDATA\msvoa12\Data\102616\P5957.D\	10/26/16 12:22	
BAT-87-19(1)-161019	R1611185-011	I:\ACQUDATA\msvoa12\Data\102616\P5958.D\	10/26/16 12:52	
BAT-87-20(0)-161019	R1611185-013	I:\ACQUDATA\msvoa12\Data\102616\P5959.D\	10/26/16 13:22	
BAT-DW-12-161019	R1611185-020	I:\ACQUDATA\msvoa12\Data\102616\P5960.D\	10/26/16 13:53	
BAT-EW-5-101619	R1611185-004	I:\ACQUDATA\msvoa12\Data\102616\P5961.D\	10/26/16 14:23	
BAT-87-22(1)-161019	R1611185-008	I:\ACQUDATA\msvoa12\Data\102616\P5962.D\	10/26/16 14:54	
BAT-EW-3-161019	R1611185-002	I:\ACQUDATA\msvoa12\Data\102616\P5963.D\	10/26/16 15:24	
DUP #1	R1611185-009	I:\ACQUDATA\msvoa12\Data\102616\P5964.D\	10/26/16 15:54	
BAT-87-21(1)-161019	R1611185-010	I:\ACQUDATA\msvoa12\Data\102616\P5965.D\	10/26/16 16:24	
BAT-89-14(1)-161019	R1611185-014	I:\ACQUDATA\msvoa12\Data\102616\P5966.D\	10/26/16 16:54	
BAT-EW-2-161019	R1611185-001	I:\ACQUDATA\msvoa12\Data\102616\P5967.D\	10/26/16 17:24	
BAT-EW-2-161019	RQ1613034-05	I:\ACQUDATA\msvoa12\Data\102616\P5968.D\	10/26/16 17:54	
BAT-EW-2-161019	RQ1613034-06	I:\ACQUDATA\msvoa12\Data\102616\P5969.D\	10/26/16 18:24	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:**10/24/16 09:40

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\102716\P5998.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 520680

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.28	78600	Pass
75	95	30	60	50.23	194667	Pass
95	95	100	100	100.00	387584	Pass
96	95	5	9	6.63	25683	Pass
173	174	0	2	1.48	4637	Pass
174	95	50	120	81.06	314176	Pass
175	174	5	9	7.84	24643	Pass
176	174	95	101	95.40	299712	Pass
177	176	5	9	6.72	20128	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1613058-02	I:\ACQUDATA\msvoa12\Data\102716\P5999.D\	10/27/16 10:49	
Lab Control Sample	RQ1613058-03	I:\ACQUDATA\msvoa12\Data\102716\P6001.D\	10/27/16 11:49	
Method Blank	RQ1613058-04	I:\ACQUDATA\msvoa12\Data\102716\P6003.D\	10/27/16 12:50	
Trip Blank	R1611185-036	I:\ACQUDATA\msvoa12\Data\102716\P6004.D\	10/27/16 13:20	
BAT-FB-2-101620	R1611185-025	I:\ACQUDATA\msvoa12\Data\102716\P6005.D\	10/27/16 13:51	
BAT-87-02(3)-161020	R1611185-022	I:\ACQUDATA\msvoa12\Data\102716\P6006.D\	10/27/16 14:20	
BAT-87-10(0)-161020	R1611185-023	I:\ACQUDATA\msvoa12\Data\102716\P6007.D\	10/27/16 14:51	
BAT-87-14(0)-161020	R1611185-030	I:\ACQUDATA\msvoa12\Data\102716\P6008.D\	10/27/16 15:21	
BAT-87-08(1)-161020	R1611185-032	I:\ACQUDATA\msvoa12\Data\102716\P6009.D\	10/27/16 15:51	
BAT-87-21(1)-161019	R1611185-010	I:\ACQUDATA\msvoa12\Data\102716\P6010.D\	10/27/16 16:21	
BAT-EW-7-161019	R1611185-015	I:\ACQUDATA\msvoa12\Data\102716\P6011.D\	10/27/16 16:51	
BAT-EW-13-161019	R1611185-016	I:\ACQUDATA\msvoa12\Data\102716\P6012.D\	10/27/16 17:23	
BAT-EW-8-161019	R1611185-017	I:\ACQUDATA\msvoa12\Data\102716\P6013.D\	10/27/16 17:53	
BAT-87-01(1)-161019	R1611185-019	I:\ACQUDATA\msvoa12\Data\102716\P6014.D\	10/27/16 18:23	
DUP #1	R1611185-009	I:\ACQUDATA\msvoa12\Data\102716\P6015.D\	10/27/16 18:53	
BAT-DW-12-161019	R1611185-020	I:\ACQUDATA\msvoa12\Data\102716\P6016.D\	10/27/16 19:23	
BAT-87-02(1)-161020	R1611185-021	I:\ACQUDATA\msvoa12\Data\102716\P6017.D\	10/27/16 19:53	
BAT-87-20(1)-101619	R1611185-012	I:\ACQUDATA\msvoa12\Data\102716\P6018.D\	10/27/16 20:23	
BAT-87-08(1)-161020	RQ1613058-05	I:\ACQUDATA\msvoa12\Data\102716\P6019.D\	10/27/16 20:53	
BAT-87-08(1)-161020	RQ1613058-06	I:\ACQUDATA\msvoa12\Data\102716\P6020.D\	10/27/16 21:23	

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/24/16 09:40

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\102716\P6022.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 520887

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.12	75355	Pass
75	95	30	60	48.38	190699	Pass
95	95	100	100	100.00	394155	Pass
96	95	5	9	6.36	25075	Pass
173	174	0	2	1.46	4386	Pass
174	95	50	120	76.27	300629	Pass
175	174	5	9	7.78	23403	Pass
176	174	95	101	96.89	291271	Pass
177	176	5	9	6.94	20211	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1613121-02	I:\ACQUDATA\msvoa12\Data\102716\P6023.D\	10/27/16 22:53	
Lab Control Sample	RQ1613121-03	I:\ACQUDATA\msvoa12\Data\102716\P6024.D\	10/27/16 23:23	
Method Blank	RQ1613121-04	I:\ACQUDATA\msvoa12\Data\102716\P6026.D\	10/28/16 00:23	
BAT-DUP-2-161020	R1611185-031	I:\ACQUDATA\msvoa12\Data\102716\P6027.D\	10/28/16 00:53	
BAT-DW-9-161020	R1611185-033	I:\ACQUDATA\msvoa12\Data\102716\P6028.D\	10/28/16 01:23	
BAT-DW-10-161020	R1611185-028	I:\ACQUDATA\msvoa12\Data\102716\P6032.D\	10/28/16 03:24	
BAT-89-15(1)-161020	R1611185-029	I:\ACQUDATA\msvoa12\Data\102716\P6034.D\	10/28/16 04:24	
BAT-87-13(3)-101620	R1611185-027	I:\ACQUDATA\msvoa12\Data\102716\P6035.D\	10/28/16 04:54	
BAT-87-13(3)-101620	RQ1613121-05	I:\ACQUDATA\msvoa12\Data\102716\P6036.D\	10/28/16 05:24	
BAT-87-13(3)-101620	RQ1613121-06	I:\ACQUDATA\msvoa12\Data\102716\P6037.D\	10/28/16 05:54	

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/24/16 09:40

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\102816\P6042.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 521126

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.08	75757	Pass
75	95	30	60	49.44	186560	Pass
95	95	100	100	100.00	377343	Pass
96	95	5	9	6.66	25140	Pass
173	174	0	2	1.56	4786	Pass
174	95	50	120	81.24	306562	Pass
175	174	5	9	7.87	24128	Pass
176	174	95	101	95.41	292501	Pass
177	176	5	9	6.57	19216	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1613189-02	I:\ACQUDATA\msvoa12\Data\102816\P6043.D\	10/28/16 09:43	
Lab Control Sample	RQ1613189-03	I:\ACQUDATA\msvoa12\Data\102816\P6045.D\	10/28/16 10:43	
Method Blank	RQ1613189-04	I:\ACQUDATA\msvoa12\Data\102816\P6047.D\	10/28/16 11:43	
BAT-B-14(1)-101620	R1611185-026	I:\ACQUDATA\msvoa12\Data\102816\P6048.D\	10/28/16 12:13	
BAT-B-8(0)-161020	R1611185-034	I:\ACQUDATA\msvoa12\Data\102816\P6049.D\	10/28/16 12:43	
BAT-B-17(1)-161020	R1611185-035	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	10/28/16 13:13	
BAT-DW-11-161020	R1611185-024	I:\ACQUDATA\msvoa12\Data\102816\P6051.D\	10/28/16 13:44	
BAT-DW-10-161020	R1611185-028	I:\ACQUDATA\msvoa12\Data\102816\P6053.D\	10/28/16 14:44	
BAT-89-15(1)-161020	R1611185-029	I:\ACQUDATA\msvoa12\Data\102816\P6054.D\	10/28/16 15:14	
BAT-DW-9-161020	R1611185-033	I:\ACQUDATA\msvoa12\Data\102816\P6055.D\	10/28/16 15:44	

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/24/16 10:13

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

File ID: I:\ACQUDATA\msvoa12\Data\102416\P5890.D\ **Lab Code:** RQ1612824-02
Instrument ID: R-MS-12 **Analysis Lot:** 519947
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	699,170	12.02	1,366,313	6.77	1,315,675	9.99
	Upper Limit ==>	1,398,340	12.52	2,732,626	7.27	2,631,350	10.49
	Lower Limit ==>	349,585	11.52	683,157	6.27	657,838	9.49
Associated Analyses							
Lab Control Sample	RQ1612824-03	676391	12.02	1376626	6.77	1308037	9.99
Method Blank	RQ1612824-04	681428	12.02	1362813	6.77	1287685	9.99
BAT-EW-2-161019	R1611185-001.R01	655954	12.02	1324737	6.77	1246736	9.99
BAT-EW-5-101619	R1611185-004.R01	648677	12.02	1303547	6.77	1252029	9.99
BAT-93-03(1)-161019	R1611185-006	654903	12.02	1317346	6.77	1248486	9.99
BAT-87-22(1)-161019	R1611185-008.R01	656778	12.02	1302722	6.77	1242772	9.99
BAT-87-08(1)-161020	R1611185-032.R01	649940	12.02	1313728	6.77	1250145	9.99

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/24/16 10:13

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

File ID: I:\ACQUDATA\msvoa12\Data\102416\P5890.D\ **Lab Code:** RQ1612824-02
Instrument ID: R-MS-12 **Analysis Lot:** 519947
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	822,720	5.74
	Upper Limit ==>	1,645,440	6.24
	Lower Limit ==>	411,360	5.24
Associated Analyses			
Lab Control Sample	RQ1612824-03	823506	5.74
Method Blank	RQ1612824-04	823384	5.74
BAT-EW-2-161019	R1611185-001.R01	799792	5.73
BAT-EW-5-101619	R1611185-004.R01	799042	5.74
BAT-93-03(1)-161019	R1611185-006	808830	5.74
BAT-87-22(1)-161019	R1611185-008.R01	796180	5.73
BAT-87-08(1)-161020	R1611185-032.R01	799339	5.73

QA/QC Report

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/26/16 08:42

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

File ID: I:\ACQUDATA\msvoa12\Data\102616\P5950.D\ **Lab Code:** RQ1613034-02
Instrument ID: R-MS-12 **Analysis Lot:** 520597
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	634,676	12.02	1,332,583	6.76	1,231,338	9.99
	Upper Limit ==>	1,269,352	12.52	2,665,166	7.26	2,462,676	10.49
	Lower Limit ==>	317,338	11.52	666,292	6.26	615,669	9.49
Associated Analyses							
Lab Control Sample	RQ1613034-03	625631	12.02	1330915	6.76	1211757	9.99
Method Blank	RQ1613034-04	626401	12.02	1315339	6.76	1188453	9.99
BAT-FB-1-161019	R1611185-018	616225	12.02	1335038	6.76	1220268	9.99
BAT-EW-4-161019	R1611185-003	626121	12.02	1320954	6.76	1200452	9.99
BAT-EW-6-101619	R1611185-005	610945	12.02	1308789	6.77	1195493	9.99
BAT-89-04(1)-161019	R1611185-007	624807	12.02	1310673	6.77	1199275	9.99
BAT-87-19(1)-161019	R1611185-011	622883	12.02	1314387	6.76	1201244	9.99
BAT-87-20(0)-161019	R1611185-013	615231	12.02	1314746	6.77	1196491	9.99
BAT-DW-12-161019	R1611185-020.R01	607462	12.02	1303219	6.77	1195057	9.99
BAT-EW-5-101619	R1611185-004	566458	12.02	1216905	6.77	1110612	9.99
BAT-87-22(1)-161019	R1611185-008	604094	12.02	1306679	6.76	1185277	9.99
BAT-EW-3-161019	R1611185-002	611042	12.02	1308656	6.77	1183620	9.99
DUP #1	R1611185-009.R01	612935	12.02	1311106	6.76	1190392	9.99
BAT-87-21(1)-161019	R1611185-010.R01	621092	12.02	1312073	6.77	1178425	9.99
BAT-89-14(1)-161019	R1611185-014	607866	12.02	1311255	6.76	1184243	9.99
BAT-EW-2-161019	R1611185-001	611940	12.02	1293159	6.76	1187173	9.99
BAT-EW-2-161019	RQ1613034-05	625994	12.02	1288289	6.76	1207752	9.99
BAT-EW-2-161019	RQ1613034-06	627528	12.02	1298439	6.77	1207186	9.99

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/26/16 08:42

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

File ID: I:\ACQUDATA\msvoa12\Data\102616\P5950.D\ **Lab Code:** RQ1613034-02
Instrument ID: R-MS-12 **Analysis Lot:** 520597
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	823,472	5.73
	Upper Limit ==>	1,646,944	6.23
	Lower Limit ==>	411,736	5.23
Associated Analyses			
Lab Control Sample	RQ1613034-03	820171	5.73
Method Blank	RQ1613034-04	821142	5.73
BAT-FB-1-161019	R1611185-018	820432	5.73
BAT-EW-4-161019	R1611185-003	812323	5.73
BAT-EW-6-101619	R1611185-005	816586	5.73
BAT-89-04(1)-161019	R1611185-007	810641	5.73
BAT-87-19(1)-161019	R1611185-011	807503	5.73
BAT-87-20(0)-161019	R1611185-013	799324	5.73
BAT-DW-12-161019	R1611185-020.R01	808176	5.73
BAT-EW-5-101619	R1611185-004	789478	5.74
BAT-87-22(1)-161019	R1611185-008	815065	5.73
BAT-EW-3-161019	R1611185-002	822560	5.74
DUP #1	R1611185-009.R01	822208	5.73
BAT-87-21(1)-161019	R1611185-010.R01	804040	5.73
BAT-89-14(1)-161019	R1611185-014	806096	5.73
BAT-EW-2-161019	R1611185-001	807066	5.73
BAT-EW-2-161019	RQ1613034-05	797761	5.73
BAT-EW-2-161019	RQ1613034-06	803196	5.73

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/27/16 10:49

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

File ID: I:\ACQUDATA\msvoa12\Data\102716\P5999.D\ **Lab Code:** RQ1613058-02
Instrument ID: R-MS-12 **Analysis Lot:** 520680
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	615,722	12.02	1,315,496	6.77	1,206,251	9.99
	Upper Limit ==>	1,231,444	12.52	2,630,992	7.27	2,412,502	10.49
	Lower Limit ==>	307,861	11.52	657,748	6.27	603,126	9.49
Associated Analyses							
Lab Control Sample	RQ1613058-03	610860	12.02	1298879	6.77	1187568	9.99
Method Blank	RQ1613058-04	617860	12.02	1311794	6.77	1198896	9.99
Trip Blank	R1611185-036	603658	12.02	1305917	6.77	1179988	9.99
BAT-FB-2-101620	R1611185-025	604221	12.02	1295378	6.77	1188427	9.99
BAT-87-02(3)-161020	R1611185-022	612170	12.02	1281923	6.77	1189130	9.99
BAT-87-10(0)-161020	R1611185-023	601182	12.02	1277212	6.77	1180946	9.99
BAT-87-14(0)-161020	R1611185-030	606547	12.02	1281230	6.77	1171902	9.99
BAT-87-08(1)-161020	R1611185-032	604156	12.02	1271569	6.77	1167665	9.99
BAT-87-21(1)-161019	R1611185-010	596768	12.02	1253262	6.76	1174245	9.99
BAT-EW-7-161019	R1611185-015	593857	12.02	1287021	6.77	1185158	9.99
BAT-EW-13-161019	R1611185-016	604515	12.02	1283142	6.77	1160257	9.99
BAT-EW-8-161019	R1611185-017	600986	12.02	1274306	6.77	1160368	9.99
BAT-87-01(1)-161019	R1611185-019	592931	12.02	1281894	6.77	1187964	9.99
DUP #1	R1611185-009	614039	12.02	1269777	6.77	1160719	9.99
BAT-DW-12-161019	R1611185-020	599629	12.02	1278016	6.76	1184377	9.99
BAT-87-02(1)-161020	R1611185-021	596175	12.02	1259392	6.77	1151159	9.99
BAT-87-20(1)-101619	R1611185-012	590860	12.02	1265944	6.77	1164766	9.99
BAT-87-08(1)-161020	RQ1613058-05	621046	12.02	1266820	6.77	1191002	9.99
BAT-87-08(1)-161020	RQ1613058-06	607675	12.02	1279620	6.76	1182460	9.99

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/27/16 10:49

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

File ID: I:\ACQUDATA\msvoa12\Data\102716\P5999.D\ **Lab Code:** RQ1613058-02
Instrument ID: R-MS-12 **Analysis Lot:** 520680
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	820,242	5.73
	Upper Limit ==>	1,640,484	6.23
	Lower Limit ==>	410,121	5.23
Associated Analyses			
Lab Control Sample	RQ1613058-03	793514	5.74
Method Blank	RQ1613058-04	807373	5.73
Trip Blank	R1611185-036	797486	5.73
BAT-FB-2-101620	R1611185-025	800684	5.73
BAT-87-02(3)-161020	R1611185-022	786715	5.73
BAT-87-10(0)-161020	R1611185-023	793709	5.73
BAT-87-14(0)-161020	R1611185-030	789623	5.74
BAT-87-08(1)-161020	R1611185-032	785858	5.73
BAT-87-21(1)-161019	R1611185-010	789127	5.73
BAT-EW-7-161019	R1611185-015	791981	5.73
BAT-EW-13-161019	R1611185-016	786198	5.73
BAT-EW-8-161019	R1611185-017	780511	5.74
BAT-87-01(1)-161019	R1611185-019	782639	5.73
DUP #1	R1611185-009	783197	5.73
BAT-DW-12-161019	R1611185-020	793289	5.73
BAT-87-02(1)-161020	R1611185-021	781487	5.74
BAT-87-20(1)-101619	R1611185-012	787543	5.73
BAT-87-08(1)-161020	RQ1613058-05	786557	5.74
BAT-87-08(1)-161020	RQ1613058-06	791569	5.73

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/27/16 22:53

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

File ID: I:\ACQUDATA\msvoa12\Data\102716\P6023.D\ **Lab Code:** RQ1613121-02
Instrument ID: R-MS-12 **Analysis Lot:** 520887
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	605,262	12.02	1,294,369	6.77	1,189,140	9.99
	Upper Limit ==>	1,210,524	12.52	2,588,738	7.27	2,378,280	10.49
	Lower Limit ==>	302,631	11.52	647,185	6.27	594,570	9.49
Associated Analyses							
Lab Control Sample	RQ1613121-03	612037	12.02	1321006	6.77	1195612	9.99
Method Blank	RQ1613121-04	608459	12.02	1284694	6.76	1170140	9.99
BAT-DUP-2-161020	R1611185-031	592438	12.02	1267082	6.77	1167842	9.99
BAT-DW-9-161020	R1611185-033.R01	604045	12.02	1279728	6.77	1161698	9.99
BAT-DW-10-161020	R1611185-028.R01	601258	12.02	1267393	6.77	1159574	9.99
BAT-89-15(1)-161020	R1611185-029.R01	595334	12.02	1248973	6.77	1166225	9.99
BAT-87-13(3)-101620	R1611185-027	589038	12.02	1259049	6.77	1143322	9.99
BAT-87-13(3)-101620	RQ1613121-05	607254	12.02	1274832	6.76	1167004	9.99
BAT-87-13(3)-101620	RQ1613121-06	612342	12.02	1257406	6.77	1158681	9.99

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/27/16 22:53

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

File ID: I:\ACQUDATA\msvoa12\Data\102716\P6023.D\ **Lab Code:** RQ1613121-02
Instrument ID: R-MS-12 **Analysis Lot:** 520887
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	777,928	5.73
	Upper Limit ==>	1,555,856	6.23
	Lower Limit ==>	388,964	5.23
Associated Analyses			
Lab Control Sample	RQ1613121-03	803952	5.74
Method Blank	RQ1613121-04	790643	5.73
BAT-DUP-2-161020	R1611185-031	783764	5.73
BAT-DW-9-161020	R1611185-033.R01	780128	5.74
BAT-DW-10-161020	R1611185-028.R01	779734	5.74
BAT-89-15(1)-161020	R1611185-029.R01	772878	5.73
BAT-87-13(3)-101620	R1611185-027	774962	5.73
BAT-87-13(3)-101620	RQ1613121-05	779999	5.73
BAT-87-13(3)-101620	RQ1613121-06	763285	5.73

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/28/16 09:43

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

File ID: I:\ACQUDATA\msvoa12\Data\102816\P6043.D\ **Lab Code:** RQ1613189-02
Instrument ID: R-MS-12 **Analysis Lot:** 521126
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	600,258	12.02	1,279,935	6.76	1,186,983	9.99
	Upper Limit ==>	1,200,516	12.52	2,559,870	7.26	2,373,966	10.49
	Lower Limit ==>	300,129	11.52	639,968	6.26	593,492	9.49
Associated Analyses							
Lab Control Sample	RQ1613189-03	611995	12.02	1274496	6.77	1169744	9.99
Method Blank	RQ1613189-04	599407	12.02	1265649	6.77	1160607	9.99
BAT-B-14(1)-101620	R1611185-026	587842	12.02	1272074	6.77	1154935	9.99
BAT-B-8(0)-161020	R1611185-034	590945	12.02	1259714	6.76	1177907	9.99
BAT-B-17(1)-161020	R1611185-035	592359	12.02	1251439	6.77	1144635	9.99
BAT-DW-11-161020	R1611185-024	592326	12.02	1273693	6.77	1156086	9.99
BAT-DW-10-161020	R1611185-028	593320	12.02	1272324	6.77	1155608	9.99
BAT-89-15(1)-161020	R1611185-029	591141	12.02	1264429	6.76	1135856	9.99
BAT-DW-9-161020	R1611185-033	578685	12.02	1264060	6.77	1139920	9.99

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/28/16 09:43

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

File ID: I:\ACQUDATA\msvoa12\Data\102816\P6043.D\ **Lab Code:** RQ1613189-02
Instrument ID: R-MS-12 **Analysis Lot:** 521126
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	774,105	5.73
	Upper Limit ==>	1,548,210	6.23
	Lower Limit ==>	387,053	5.23
Associated Analyses			
Lab Control Sample	RQ1613189-03	787989	5.73
Method Blank	RQ1613189-04	774805	5.73
BAT-B-14(1)-101620	R1611185-026	784007	5.73
BAT-B-8(0)-161020	R1611185-034	777914	5.73
BAT-B-17(1)-161020	R1611185-035	774750	5.73
BAT-DW-11-161020	R1611185-024	786623	5.73
BAT-DW-10-161020	R1611185-028	776298	5.73
BAT-89-15(1)-161020	R1611185-029	767396	5.73
BAT-DW-9-161020	R1611185-033	771355	5.73

Raw Data

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

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www.alsglobal.com

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-2-161019	**Units:**	ug/L
Lab Code:	R1611185-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 16:23	
Vinyl Chloride	**200**	1.0	0.32	1	10/24/16 16:23	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 16:23	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 16:23	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/24/16 16:23	
Acetone	5.0 U	5.0	1.3	1	10/24/16 16:23	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/24/16 16:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 16:23	
trans-1,2-Dichloroethene	**2.9**	1.0	0.33	1	10/24/16 16:23	
1,1-Dichloroethane	**13**	1.0	0.20	1	10/24/16 16:23	
cis-1,2-Dichloroethene	**280 E**	1.0	0.30	1	10/24/16 16:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 16:23	
Chloroform	**0.65 J**	1.0	0.25	1	10/24/16 16:23	
1,1,1-Trichloroethane	**21**	1.0	0.36	1	10/24/16 16:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 16:23	
Benzene	1.0 U	1.0	0.20	1	10/24/16 16:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 16:23	
Trichloroethene	**7.7**	1.0	0.22	1	10/24/16 16:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 16:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 16:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 16:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 16:23	
Toluene	1.0 U	1.0	0.20	1	10/24/16 16:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 16:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 16:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 16:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 16:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 16:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 16:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 16:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 16:23	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 16:23	
Styrene	1.0 U	1.0	0.20	1	10/24/16 16:23	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 16:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 16:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/24/16 16:23	
Toluene-d8	111	87 - 121	10/24/16 16:23	
Dibromofluoromethane	107	89 - 119	10/24/16 16:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-2-161019	**Units:**	ug/L
Lab Code:	R1611185-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 17:24	
Vinyl Chloride	**160 D**	2.0	0.64	2	10/26/16 17:24	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 17:24	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 17:24	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	10/26/16 17:24	
Acetone	**3.6 DJ**	10	2.5	2	10/26/16 17:24	
Carbon Disulfide	**0.66 DJ**	2.0	0.44	2	10/26/16 17:24	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 17:24	
trans-1,2-Dichloroethene	**2.7 D**	2.0	0.66	2	10/26/16 17:24	
1,1-Dichloroethane	**10 D**	2.0	0.40	2	10/26/16 17:24	
cis-1,2-Dichloroethene	**250 D**	2.0	0.60	2	10/26/16 17:24	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 17:24	
Chloroform	**0.90 DJ**	2.0	0.50	2	10/26/16 17:24	
1,1,1-Trichloroethane	**18 D**	2.0	0.72	2	10/26/16 17:24	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 17:24	
Benzene	2.0 U	2.0	0.40	2	10/26/16 17:24	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 17:24	
Trichloroethene	**7.1 D**	2.0	0.44	2	10/26/16 17:24	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 17:24	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 17:24	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 17:24	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 17:24	
Toluene	2.0 U	2.0	0.40	2	10/26/16 17:24	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 17:24	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 17:24	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 17:24	
2-Hexanone	10 U	10	3.4	2	10/26/16 17:24	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 17:24	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 17:24	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 17:24	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 17:24	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 17:24	
Styrene	2.0 U	2.0	0.40	2	10/26/16 17:24	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 17:24	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 17:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 17:24	
Toluene-d8	112	87 - 121	10/26/16 17:24	
Dibromofluoromethane	109	89 - 119	10/26/16 17:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:35
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-3-161019	**Units:**	ug/L
Lab Code:	R1611185-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10	U	10	2.1	10	10/26/16 15:24	
Vinyl Chloride	**720**		10	3.2	10	10/26/16 15:24	
Chloroethane	10	U	10	2.4	10	10/26/16 15:24	
Bromomethane	10	U	10	2.9	10	10/26/16 15:24	
1,1-Dichloroethene	10	U	10	5.7	10	10/26/16 15:24	
Acetone	50	U	50	13	10	10/26/16 15:24	
Carbon Disulfide	10	U	10	2.2	10	10/26/16 15:24	
Methylene Chloride	10	U	10	6.0	10	10/26/16 15:24	
trans-1,2-Dichloroethene	**10**		10	3.3	10	10/26/16 15:24	
1,1-Dichloroethane	**13**		10	2.0	10	10/26/16 15:24	
cis-1,2-Dichloroethene	**1600**		10	3.0	10	10/26/16 15:24	
2-Butanone (MEK)	50	U	50	8.2	10	10/26/16 15:24	
Chloroform	10	U	10	2.5	10	10/26/16 15:24	
1,1,1-Trichloroethane	**17**		10	3.6	10	10/26/16 15:24	
Carbon Tetrachloride	10	U	10	4.5	10	10/26/16 15:24	
Benzene	10	U	10	2.0	10	10/26/16 15:24	
1,2-Dichloroethane	10	U	10	3.6	10	10/26/16 15:24	
Trichloroethene	**4.6**	**J**	10	2.2	10	10/26/16 15:24	
1,2-Dichloropropane	10	U	10	2.0	10	10/26/16 15:24	
Bromodichloromethane	10	U	10	3.2	10	10/26/16 15:24	
cis-1,3-Dichloropropene	10	U	10	2.4	10	10/26/16 15:24	
4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	10	10/26/16 15:24	
Toluene	10	U	10	2.0	10	10/26/16 15:24	
trans-1,3-Dichloropropene	10	U	10	2.0	10	10/26/16 15:24	
1,1,2-Trichloroethane	10	U	10	3.4	10	10/26/16 15:24	
Tetrachloroethene	10	U	10	3.0	10	10/26/16 15:24	
2-Hexanone	50	U	50	17	10	10/26/16 15:24	
Dibromochloromethane	10	U	10	3.1	10	10/26/16 15:24	
Chlorobenzene	10	U	10	2.9	10	10/26/16 15:24	
Ethylbenzene	10	U	10	2.0	10	10/26/16 15:24	
m,p-Xylenes	20	U	20	3.3	10	10/26/16 15:24	
o-Xylene	10	U	10	2.0	10	10/26/16 15:24	
Styrene	10	U	10	2.0	10	10/26/16 15:24	
Bromoform	10	U	10	4.2	10	10/26/16 15:24	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	10/26/16 15:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:35
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-3-161019	**Units:**	ug/L
Lab Code:	R1611185-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 15:24	
Toluene-d8	112	87 - 121	10/26/16 15:24	
Dibromofluoromethane	109	89 - 119	10/26/16 15:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-4-161019	**Units:**	ug/L
Lab Code:	R1611185-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 11:22	
Vinyl Chloride	**50**	1.0	0.32	1	10/26/16 11:22	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 11:22	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 11:22	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 11:22	
Acetone	5.0 U	5.0	1.3	1	10/26/16 11:22	
Carbon Disulfide	**0.61 J**	1.0	0.22	1	10/26/16 11:22	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 11:22	
trans-1,2-Dichloroethene	**1.9**	1.0	0.33	1	10/26/16 11:22	
1,1-Dichloroethane	**1.6**	1.0	0.20	1	10/26/16 11:22	
cis-1,2-Dichloroethene	**39**	1.0	0.30	1	10/26/16 11:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 11:22	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 11:22	
1,1,1-Trichloroethane	**0.93 J**	1.0	0.36	1	10/26/16 11:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 11:22	
Benzene	1.0 U	1.0	0.20	1	10/26/16 11:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 11:22	
Trichloroethene	**0.71 J**	1.0	0.22	1	10/26/16 11:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 11:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 11:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 11:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 11:22	
Toluene	1.0 U	1.0	0.20	1	10/26/16 11:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 11:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 11:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 11:22	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 11:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 11:22	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 11:22	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 11:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 11:22	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 11:22	
Styrene	1.0 U	1.0	0.20	1	10/26/16 11:22	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 11:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 11:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 10:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-4-161019	**Units:**	ug/L
Lab Code:	R1611185-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	10/26/16 11:22	
Toluene-d8	111	87 - 121	10/26/16 11:22	
Dibromofluoromethane	110	89 - 119	10/26/16 11:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-5-101619	**Units:**	ug/L
Lab Code:	R1611185-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 17:23	
Vinyl Chloride	**290 E**	1.0	0.32	1	10/24/16 17:23	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 17:23	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 17:23	
1,1-Dichloroethene	**2.0**	1.0	0.57	1	10/24/16 17:23	
Acetone	**5.8**	5.0	1.3	1	10/24/16 17:23	
Carbon Disulfide	**0.31 J**	1.0	0.22	1	10/24/16 17:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 17:23	
trans-1,2-Dichloroethene	**4.1**	1.0	0.33	1	10/24/16 17:23	
1,1-Dichloroethane	**10**	1.0	0.20	1	10/24/16 17:23	
cis-1,2-Dichloroethene	**590 E**	1.0	0.30	1	10/24/16 17:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 17:23	
Chloroform	**0.53 J**	1.0	0.25	1	10/24/16 17:23	
1,1,1-Trichloroethane	**15**	1.0	0.36	1	10/24/16 17:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 17:23	
Benzene	1.0 U	1.0	0.20	1	10/24/16 17:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 17:23	
Trichloroethene	**4.9**	1.0	0.22	1	10/24/16 17:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 17:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 17:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 17:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 17:23	
Toluene	1.0 U	1.0	0.20	1	10/24/16 17:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 17:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 17:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 17:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 17:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 17:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 17:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 17:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 17:23	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 17:23	
Styrene	1.0 U	1.0	0.20	1	10/24/16 17:23	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 17:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 17:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/24/16 17:23	
Toluene-d8	114	87 - 121	10/24/16 17:23	
Dibromofluoromethane	109	89 - 119	10/24/16 17:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-5-101619	**Units:**	ug/L
Lab Code:	R1611185-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/26/16 14:23	
Vinyl Chloride	**210 D**	5.0	1.6	5	10/26/16 14:23	
Chloroethane	5.0 U	5.0	1.2	5	10/26/16 14:23	
Bromomethane	5.0 U	5.0	1.5	5	10/26/16 14:23	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	10/26/16 14:23	
Acetone	**12 DJ**	25	6.2	5	10/26/16 14:23	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/26/16 14:23	
Methylene Chloride	5.0 U	5.0	3.0	5	10/26/16 14:23	
trans-1,2-Dichloroethene	**4.4 DJ**	5.0	1.7	5	10/26/16 14:23	
1,1-Dichloroethane	**9.9 D**	5.0	1.0	5	10/26/16 14:23	
cis-1,2-Dichloroethene	**530 D**	5.0	1.5	5	10/26/16 14:23	
2-Butanone (MEK)	25 U	25	4.1	5	10/26/16 14:23	
Chloroform	**1.3 DJ**	5.0	1.3	5	10/26/16 14:23	
1,1,1-Trichloroethane	**12 D**	5.0	1.8	5	10/26/16 14:23	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/26/16 14:23	
Benzene	5.0 U	5.0	1.0	5	10/26/16 14:23	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/26/16 14:23	
Trichloroethene	**4.8 DJ**	5.0	1.1	5	10/26/16 14:23	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/26/16 14:23	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/26/16 14:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/26/16 14:23	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/26/16 14:23	
Toluene	5.0 U	5.0	1.0	5	10/26/16 14:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/26/16 14:23	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/26/16 14:23	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/26/16 14:23	
2-Hexanone	25 U	25	8.3	5	10/26/16 14:23	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/26/16 14:23	
Chlorobenzene	5.0 U	5.0	1.5	5	10/26/16 14:23	
Ethylbenzene	5.0 U	5.0	1.0	5	10/26/16 14:23	
m,p-Xylenes	10 U	10	1.7	5	10/26/16 14:23	
o-Xylene	5.0 U	5.0	1.0	5	10/26/16 14:23	
Styrene	5.0 U	5.0	1.0	5	10/26/16 14:23	
Bromoform	5.0 U	5.0	2.1	5	10/26/16 14:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/26/16 14:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 14:23	
Toluene-d8	107	87 - 121	10/26/16 14:23	
Dibromofluoromethane	116	89 - 119	10/26/16 14:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-6-101619	**Units:**	ug/L
Lab Code:	R1611185-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 11:52	
Vinyl Chloride	**0.48 J**	1.0	0.32	1	10/26/16 11:52	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 11:52	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 11:52	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 11:52	
Acetone	5.0 U	5.0	1.3	1	10/26/16 11:52	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 11:52	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 11:52	
trans-1,2-Dichloroethene	**1.6**	1.0	0.33	1	10/26/16 11:52	
1,1-Dichloroethane	**3.6**	1.0	0.20	1	10/26/16 11:52	
cis-1,2-Dichloroethene	**69**	1.0	0.30	1	10/26/16 11:52	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 11:52	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 11:52	
1,1,1-Trichloroethane	**1.6**	1.0	0.36	1	10/26/16 11:52	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 11:52	
Benzene	1.0 U	1.0	0.20	1	10/26/16 11:52	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 11:52	
Trichloroethene	**1.1**	1.0	0.22	1	10/26/16 11:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 11:52	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 11:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 11:52	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 11:52	
Toluene	1.0 U	1.0	0.20	1	10/26/16 11:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 11:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 11:52	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 11:52	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 11:52	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 11:52	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 11:52	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 11:52	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 11:52	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 11:52	
Styrene	1.0 U	1.0	0.20	1	10/26/16 11:52	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 11:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 11:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-6-101619	**Units:**	ug/L
Lab Code:	R1611185-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 11:52	
Toluene-d8	113	87 - 121	10/26/16 11:52	
Dibromofluoromethane	110	89 - 119	10/26/16 11:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-93-03(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 18:23	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/24/16 18:23	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 18:23	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 18:23	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/24/16 18:23	
Acetone	5.0 U	5.0	1.3	1	10/24/16 18:23	
Carbon Disulfide	**0.23 J**	1.0	0.22	1	10/24/16 18:23	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 18:23	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/24/16 18:23	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/24/16 18:23	
cis-1,2-Dichloroethene	**0.90 J**	1.0	0.30	1	10/24/16 18:23	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 18:23	
Chloroform	1.0 U	1.0	0.25	1	10/24/16 18:23	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/24/16 18:23	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 18:23	
Benzene	1.0 U	1.0	0.20	1	10/24/16 18:23	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 18:23	
Trichloroethene	1.0 U	1.0	0.22	1	10/24/16 18:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 18:23	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 18:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 18:23	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 18:23	
Toluene	1.0 U	1.0	0.20	1	10/24/16 18:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 18:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 18:23	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 18:23	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 18:23	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 18:23	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 18:23	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 18:23	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 18:23	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 18:23	
Styrene	1.0 U	1.0	0.20	1	10/24/16 18:23	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 18:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-93-03(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85 - 122	10/24/16 18:23	
Toluene-d8	112	87 - 121	10/24/16 18:23	
Dibromofluoromethane	107	89 - 119	10/24/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-04(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 12:22	
Vinyl Chloride	**0.40 J**	1.0	0.32	1	10/26/16 12:22	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 12:22	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 12:22	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 12:22	
Acetone	**1.9 J**	5.0	1.3	1	10/26/16 12:22	
Carbon Disulfide	**11**	1.0	0.22	1	10/26/16 12:22	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 12:22	
trans-1,2-Dichloroethene	**0.41 J**	1.0	0.33	1	10/26/16 12:22	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 12:22	
cis-1,2-Dichloroethene	**2.1**	1.0	0.30	1	10/26/16 12:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 12:22	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 12:22	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 12:22	
Benzene	1.0 U	1.0	0.20	1	10/26/16 12:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:22	
Trichloroethene	**1.4**	1.0	0.22	1	10/26/16 12:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 12:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 12:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 12:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 12:22	
Toluene	1.0 U	1.0	0.20	1	10/26/16 12:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 12:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 12:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 12:22	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 12:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 12:22	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 12:22	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 12:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 12:22	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 12:22	
Styrene	1.0 U	1.0	0.20	1	10/26/16 12:22	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 12:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 12:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-04(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 12:22	
Toluene-d8	113	87 - 121	10/26/16 12:22	
Dibromofluoromethane	111	89 - 119	10/26/16 12:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-22(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/24/16 18:53	
Vinyl Chloride	**430**	5.0	1.6	5	10/24/16 18:53	
Chloroethane	5.0 U	5.0	1.2	5	10/24/16 18:53	
Bromomethane	5.0 U	5.0	1.5	5	10/24/16 18:53	
1,1-Dichloroethene	**4.9 J**	5.0	2.9	5	10/24/16 18:53	
Acetone	**6.4 J**	25	6.2	5	10/24/16 18:53	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/24/16 18:53	
Methylene Chloride	5.0 U	5.0	3.0	5	10/24/16 18:53	
trans-1,2-Dichloroethene	**7.3**	5.0	1.7	5	10/24/16 18:53	
1,1-Dichloroethane	**5.4**	5.0	1.0	5	10/24/16 18:53	
cis-1,2-Dichloroethene	**1500 E**	5.0	1.5	5	10/24/16 18:53	
2-Butanone (MEK)	25 U	25	4.1	5	10/24/16 18:53	
Chloroform	**1.3 J**	5.0	1.3	5	10/24/16 18:53	
1,1,1-Trichloroethane	5.0 U	5.0	1.8	5	10/24/16 18:53	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/24/16 18:53	
Benzene	5.0 U	5.0	1.0	5	10/24/16 18:53	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/24/16 18:53	
Trichloroethene	**5.0 J**	5.0	1.1	5	10/24/16 18:53	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/24/16 18:53	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/24/16 18:53	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/24/16 18:53	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/24/16 18:53	
Toluene	5.0 U	5.0	1.0	5	10/24/16 18:53	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/24/16 18:53	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/24/16 18:53	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/24/16 18:53	
2-Hexanone	25 U	25	8.3	5	10/24/16 18:53	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/24/16 18:53	
Chlorobenzene	5.0 U	5.0	1.5	5	10/24/16 18:53	
Ethylbenzene	5.0 U	5.0	1.0	5	10/24/16 18:53	
m,p-Xylenes	10 U	10	1.7	5	10/24/16 18:53	
o-Xylene	5.0 U	5.0	1.0	5	10/24/16 18:53	
Styrene	5.0 U	5.0	1.0	5	10/24/16 18:53	
Bromoform	5.0 U	5.0	2.1	5	10/24/16 18:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/24/16 18:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85 - 122	10/24/16 18:53	
Toluene-d8	112	87 - 121	10/24/16 18:53	
Dibromofluoromethane	111	89 - 119	10/24/16 18:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-22(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/26/16 14:54	
Vinyl Chloride	**320 D**	10	3.2	10	10/26/16 14:54	
Chloroethane	10 U	10	2.4	10	10/26/16 14:54	
Bromomethane	10 U	10	2.9	10	10/26/16 14:54	
1,1-Dichloroethene	10 U	10	5.7	10	10/26/16 14:54	
Acetone	50 U	50	13	10	10/26/16 14:54	
Carbon Disulfide	10 U	10	2.2	10	10/26/16 14:54	
Methylene Chloride	10 U	10	6.0	10	10/26/16 14:54	
trans-1,2-Dichloroethene	**7.1 DJ**	10	3.3	10	10/26/16 14:54	
1,1-Dichloroethane	**5.2 DJ**	10	2.0	10	10/26/16 14:54	
cis-1,2-Dichloroethene	**1200 D**	10	3.0	10	10/26/16 14:54	
2-Butanone (MEK)	50 U	50	8.2	10	10/26/16 14:54	
Chloroform	**2.5 DJ**	10	2.5	10	10/26/16 14:54	
1,1,1-Trichloroethane	10 U	10	3.6	10	10/26/16 14:54	
Carbon Tetrachloride	10 U	10	4.5	10	10/26/16 14:54	
Benzene	10 U	10	2.0	10	10/26/16 14:54	
1,2-Dichloroethane	10 U	10	3.6	10	10/26/16 14:54	
Trichloroethene	**3.9 DJ**	10	2.2	10	10/26/16 14:54	
1,2-Dichloropropane	10 U	10	2.0	10	10/26/16 14:54	
Bromodichloromethane	10 U	10	3.2	10	10/26/16 14:54	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/26/16 14:54	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/26/16 14:54	
Toluene	10 U	10	2.0	10	10/26/16 14:54	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/26/16 14:54	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/26/16 14:54	
Tetrachloroethene	10 U	10	3.0	10	10/26/16 14:54	
2-Hexanone	50 U	50	17	10	10/26/16 14:54	
Dibromochloromethane	10 U	10	3.1	10	10/26/16 14:54	
Chlorobenzene	10 U	10	2.9	10	10/26/16 14:54	
Ethylbenzene	10 U	10	2.0	10	10/26/16 14:54	
m,p-Xylenes	20 U	20	3.3	10	10/26/16 14:54	
o-Xylene	10 U	10	2.0	10	10/26/16 14:54	
Styrene	10 U	10	2.0	10	10/26/16 14:54	
Bromoform	10 U	10	4.2	10	10/26/16 14:54	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/26/16 14:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/26/16 14:54	
Toluene-d8	114	87 - 121	10/26/16 14:54	
Dibromofluoromethane	111	89 - 119	10/26/16 14:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	DUP #1	**Units:**	ug/L
Lab Code:	R1611185-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 15:54	
Vinyl Chloride	**320**	2.0	0.64	2	10/26/16 15:54	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 15:54	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 15:54	
1,1-Dichloroethene	**3.0**	2.0	1.2	2	10/26/16 15:54	
Acetone	10 U	10	2.5	2	10/26/16 15:54	
Carbon Disulfide	2.0 U	2.0	0.44	2	10/26/16 15:54	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 15:54	
trans-1,2-Dichloroethene	**6.4**	2.0	0.66	2	10/26/16 15:54	
1,1-Dichloroethane	**4.9**	2.0	0.40	2	10/26/16 15:54	
cis-1,2-Dichloroethene	**1200 E**	2.0	0.60	2	10/26/16 15:54	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 15:54	
Chloroform	2.0 U	2.0	0.50	2	10/26/16 15:54	
1,1,1-Trichloroethane	**0.96 J**	2.0	0.72	2	10/26/16 15:54	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 15:54	
Benzene	2.0 U	2.0	0.40	2	10/26/16 15:54	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 15:54	
Trichloroethene	**3.6**	2.0	0.44	2	10/26/16 15:54	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 15:54	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 15:54	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 15:54	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 15:54	
Toluene	2.0 U	2.0	0.40	2	10/26/16 15:54	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 15:54	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 15:54	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 15:54	
2-Hexanone	10 U	10	3.4	2	10/26/16 15:54	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 15:54	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 15:54	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 15:54	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 15:54	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 15:54	
Styrene	2.0 U	2.0	0.40	2	10/26/16 15:54	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 15:54	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 15:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 15:54	
Toluene-d8	112	87 - 121	10/26/16 15:54	
Dibromofluoromethane	110	89 - 119	10/26/16 15:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	DUP #1	**Units:**	ug/L
Lab Code:	R1611185-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/27/16 18:53	
Vinyl Chloride	**430 D**	10	3.2	10	10/27/16 18:53	
Chloroethane	10 U	10	2.4	10	10/27/16 18:53	
Bromomethane	10 U	10	2.9	10	10/27/16 18:53	
1,1-Dichloroethene	10 U	10	5.7	10	10/27/16 18:53	
Acetone	50 U	50	13	10	10/27/16 18:53	
Carbon Disulfide	10 U	10	2.2	10	10/27/16 18:53	
Methylene Chloride	10 U	10	6.0	10	10/27/16 18:53	
trans-1,2-Dichloroethene	**8.5 DJ**	10	3.3	10	10/27/16 18:53	
1,1-Dichloroethane	**6.0 DJ**	10	2.0	10	10/27/16 18:53	
cis-1,2-Dichloroethene	**1600 D**	10	3.0	10	10/27/16 18:53	
2-Butanone (MEK)	50 U	50	8.2	10	10/27/16 18:53	
Chloroform	**3.4 DJ**	10	2.5	10	10/27/16 18:53	
1,1,1-Trichloroethane	10 U	10	3.6	10	10/27/16 18:53	
Carbon Tetrachloride	10 U	10	4.5	10	10/27/16 18:53	
Benzene	10 U	10	2.0	10	10/27/16 18:53	
1,2-Dichloroethane	10 U	10	3.6	10	10/27/16 18:53	
Trichloroethene	**5.1 DJ**	10	2.2	10	10/27/16 18:53	
1,2-Dichloropropane	10 U	10	2.0	10	10/27/16 18:53	
Bromodichloromethane	10 U	10	3.2	10	10/27/16 18:53	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/27/16 18:53	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/27/16 18:53	
Toluene	10 U	10	2.0	10	10/27/16 18:53	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/27/16 18:53	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/27/16 18:53	
Tetrachloroethene	10 U	10	3.0	10	10/27/16 18:53	
2-Hexanone	50 U	50	17	10	10/27/16 18:53	
Dibromochloromethane	10 U	10	3.1	10	10/27/16 18:53	
Chlorobenzene	10 U	10	2.9	10	10/27/16 18:53	
Ethylbenzene	10 U	10	2.0	10	10/27/16 18:53	
m,p-Xylenes	20 U	20	3.3	10	10/27/16 18:53	
o-Xylene	10 U	10	2.0	10	10/27/16 18:53	
Styrene	10 U	10	2.0	10	10/27/16 18:53	
Bromoform	10 U	10	4.2	10	10/27/16 18:53	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/27/16 18:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/27/16 18:53	
Toluene-d8	113	87 - 121	10/27/16 18:53	
Dibromofluoromethane	110	89 - 119	10/27/16 18:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-21(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 16:24	
Vinyl Chloride	**77**	2.0	0.64	2	10/26/16 16:24	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 16:24	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 16:24	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	10/26/16 16:24	
Acetone	**2.7 J**	10	2.5	2	10/26/16 16:24	
Carbon Disulfide	2.0 U	2.0	0.44	2	10/26/16 16:24	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 16:24	
trans-1,2-Dichloroethene	**6.7**	2.0	0.66	2	10/26/16 16:24	
1,1-Dichloroethane	**3.1**	2.0	0.40	2	10/26/16 16:24	
cis-1,2-Dichloroethene	**450 E**	2.0	0.60	2	10/26/16 16:24	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 16:24	
Chloroform	**0.62 J**	2.0	0.50	2	10/26/16 16:24	
1,1,1-Trichloroethane	**3.5**	2.0	0.72	2	10/26/16 16:24	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 16:24	
Benzene	2.0 U	2.0	0.40	2	10/26/16 16:24	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 16:24	
Trichloroethene	**5.4**	2.0	0.44	2	10/26/16 16:24	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 16:24	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 16:24	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 16:24	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 16:24	
Toluene	2.0 U	2.0	0.40	2	10/26/16 16:24	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 16:24	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 16:24	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 16:24	
2-Hexanone	10 U	10	3.4	2	10/26/16 16:24	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 16:24	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 16:24	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 16:24	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 16:24	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 16:24	
Styrene	2.0 U	2.0	0.40	2	10/26/16 16:24	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 16:24	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 16:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 16:24	
Toluene-d8	110	87 - 121	10/26/16 16:24	
Dibromofluoromethane	110	89 - 119	10/26/16 16:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 13:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-21(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/27/16 16:21	
Vinyl Chloride	**77 D**	10	3.2	10	10/27/16 16:21	
Chloroethane	10 U	10	2.4	10	10/27/16 16:21	
Bromomethane	10 U	10	2.9	10	10/27/16 16:21	
1,1-Dichloroethene	10 U	10	5.7	10	10/27/16 16:21	
Acetone	50 U	50	13	10	10/27/16 16:21	
Carbon Disulfide	10 U	10	2.2	10	10/27/16 16:21	
Methylene Chloride	10 U	10	6.0	10	10/27/16 16:21	
trans-1,2-Dichloroethene	10 U	10	3.3	10	10/27/16 16:21	
1,1-Dichloroethane	**3.4 DJ**	10	2.0	10	10/27/16 16:21	
cis-1,2-Dichloroethene	**460 D**	10	3.0	10	10/27/16 16:21	
2-Butanone (MEK)	50 U	50	8.2	10	10/27/16 16:21	
Chloroform	10 U	10	2.5	10	10/27/16 16:21	
1,1,1-Trichloroethane	**5.1 DJ**	10	3.6	10	10/27/16 16:21	
Carbon Tetrachloride	10 U	10	4.5	10	10/27/16 16:21	
Benzene	10 U	10	2.0	10	10/27/16 16:21	
1,2-Dichloroethane	10 U	10	3.6	10	10/27/16 16:21	
Trichloroethene	**7.0 DJ**	10	2.2	10	10/27/16 16:21	
1,2-Dichloropropane	10 U	10	2.0	10	10/27/16 16:21	
Bromodichloromethane	10 U	10	3.2	10	10/27/16 16:21	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/27/16 16:21	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/27/16 16:21	
Toluene	10 U	10	2.0	10	10/27/16 16:21	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/27/16 16:21	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/27/16 16:21	
Tetrachloroethene	10 U	10	3.0	10	10/27/16 16:21	
2-Hexanone	50 U	50	17	10	10/27/16 16:21	
Dibromochloromethane	10 U	10	3.1	10	10/27/16 16:21	
Chlorobenzene	10 U	10	2.9	10	10/27/16 16:21	
Ethylbenzene	10 U	10	2.0	10	10/27/16 16:21	
m,p-Xylenes	20 U	20	3.3	10	10/27/16 16:21	
o-Xylene	10 U	10	2.0	10	10/27/16 16:21	
Styrene	10 U	10	2.0	10	10/27/16 16:21	
Bromoform	10 U	10	4.2	10	10/27/16 16:21	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/27/16 16:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	10/27/16 16:21	
Toluene-d8	114	87 - 121	10/27/16 16:21	
Dibromofluoromethane	110	89 - 119	10/27/16 16:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-19(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 12:52	
Vinyl Chloride	**1.7**	1.0	0.32	1	10/26/16 12:52	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 12:52	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 12:52	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 12:52	
Acetone	5.0 U	5.0	1.3	1	10/26/16 12:52	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 12:52	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 12:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 12:52	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 12:52	
cis-1,2-Dichloroethene	**5.8**	1.0	0.30	1	10/26/16 12:52	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 12:52	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 12:52	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:52	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 12:52	
Benzene	1.0 U	1.0	0.20	1	10/26/16 12:52	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 12:52	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 12:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 12:52	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 12:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 12:52	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 12:52	
Toluene	1.0 U	1.0	0.20	1	10/26/16 12:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 12:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 12:52	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 12:52	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 12:52	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 12:52	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 12:52	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 12:52	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 12:52	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 12:52	
Styrene	1.0 U	1.0	0.20	1	10/26/16 12:52	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 12:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 12:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-19(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/26/16 12:52	
Toluene-d8	112	87 - 121	10/26/16 12:52	
Dibromofluoromethane	109	89 - 119	10/26/16 12:52	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(1)-101619	**Units:**	ug/L
Lab Code:	R1611185-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	10/27/16 20:23	
Vinyl Chloride	**830**	50	16	50	10/27/16 20:23	
Chloroethane	50 U	50	12	50	10/27/16 20:23	
Bromomethane	50 U	50	15	50	10/27/16 20:23	
1,1-Dichloroethene	50 U	50	29	50	10/27/16 20:23	
Acetone	250 U	250	62	50	10/27/16 20:23	
Carbon Disulfide	50 U	50	11	50	10/27/16 20:23	
Methylene Chloride	50 U	50	30	50	10/27/16 20:23	
trans-1,2-Dichloroethene	50 U	50	17	50	10/27/16 20:23	
1,1-Dichloroethane	**18 J**	50	10	50	10/27/16 20:23	
cis-1,2-Dichloroethene	**4700**	50	15	50	10/27/16 20:23	
2-Butanone (MEK)	250 U	250	41	50	10/27/16 20:23	
Chloroform	**18 J**	50	13	50	10/27/16 20:23	
1,1,1-Trichloroethane	**22 J**	50	18	50	10/27/16 20:23	
Carbon Tetrachloride	50 U	50	23	50	10/27/16 20:23	
Benzene	50 U	50	10	50	10/27/16 20:23	
1,2-Dichloroethane	50 U	50	18	50	10/27/16 20:23	
Trichloroethene	**19 J**	50	11	50	10/27/16 20:23	
1,2-Dichloropropane	50 U	50	10	50	10/27/16 20:23	
Bromodichloromethane	50 U	50	16	50	10/27/16 20:23	
cis-1,3-Dichloropropene	50 U	50	12	50	10/27/16 20:23	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	10/27/16 20:23	
Toluene	50 U	50	10	50	10/27/16 20:23	
trans-1,3-Dichloropropene	50 U	50	10	50	10/27/16 20:23	
1,1,2-Trichloroethane	50 U	50	17	50	10/27/16 20:23	
Tetrachloroethene	50 U	50	15	50	10/27/16 20:23	
2-Hexanone	250 U	250	83	50	10/27/16 20:23	
Dibromochloromethane	50 U	50	16	50	10/27/16 20:23	
Chlorobenzene	50 U	50	15	50	10/27/16 20:23	
Ethylbenzene	50 U	50	10	50	10/27/16 20:23	
m,p-Xylenes	100 U	100	17	50	10/27/16 20:23	
o-Xylene	50 U	50	10	50	10/27/16 20:23	
Styrene	50 U	50	10	50	10/27/16 20:23	
Bromoform	50 U	50	21	50	10/27/16 20:23	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	10/27/16 20:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(1)-101619	**Units:**	ug/L
Lab Code:	R1611185-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 20:23	
Toluene-d8	114	87 - 121	10/27/16 20:23	
Dibromofluoromethane	109	89 - 119	10/27/16 20:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(0)-161019	**Units:**	ug/L
Lab Code:	R1611185-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 13:22	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/26/16 13:22	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 13:22	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 13:22	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 13:22	
Acetone	**1.4 J**	5.0	1.3	1	10/26/16 13:22	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 13:22	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 13:22	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 13:22	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 13:22	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/26/16 13:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 13:22	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 13:22	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 13:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 13:22	
Benzene	1.0 U	1.0	0.20	1	10/26/16 13:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 13:22	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 13:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 13:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 13:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 13:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 13:22	
Toluene	1.0 U	1.0	0.20	1	10/26/16 13:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 13:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 13:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 13:22	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 13:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 13:22	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 13:22	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 13:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 13:22	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 13:22	
Styrene	1.0 U	1.0	0.20	1	10/26/16 13:22	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 13:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 13:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 14:25
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-20(0)-161019	**Units:**	ug/L
Lab Code:	R1611185-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/26/16 13:22	
Toluene-d8	108	87 - 121	10/26/16 13:22	
Dibromofluoromethane	109	89 - 119	10/26/16 13:22	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-14(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	10/26/16 16:54	
Vinyl Chloride	**250**	2.0	0.64	2	10/26/16 16:54	
Chloroethane	2.0 U	2.0	0.48	2	10/26/16 16:54	
Bromomethane	2.0 U	2.0	0.58	2	10/26/16 16:54	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	10/26/16 16:54	
Acetone	**3.9 J**	10	2.5	2	10/26/16 16:54	
Carbon Disulfide	**0.80 J**	2.0	0.44	2	10/26/16 16:54	
Methylene Chloride	2.0 U	2.0	1.2	2	10/26/16 16:54	
trans-1,2-Dichloroethene	**2.3**	2.0	0.66	2	10/26/16 16:54	
1,1-Dichloroethane	**20**	2.0	0.40	2	10/26/16 16:54	
cis-1,2-Dichloroethene	**130**	2.0	0.60	2	10/26/16 16:54	
2-Butanone (MEK)	10 U	10	1.7	2	10/26/16 16:54	
Chloroform	2.0 U	2.0	0.50	2	10/26/16 16:54	
1,1,1-Trichloroethane	**2.0 J**	2.0	0.72	2	10/26/16 16:54	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	10/26/16 16:54	
Benzene	2.0 U	2.0	0.40	2	10/26/16 16:54	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	10/26/16 16:54	
Trichloroethene	**1.7 J**	2.0	0.44	2	10/26/16 16:54	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/26/16 16:54	
Bromodichloromethane	2.0 U	2.0	0.64	2	10/26/16 16:54	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	10/26/16 16:54	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	10/26/16 16:54	
Toluene	2.0 U	2.0	0.40	2	10/26/16 16:54	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/26/16 16:54	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	10/26/16 16:54	
Tetrachloroethene	2.0 U	2.0	0.60	2	10/26/16 16:54	
2-Hexanone	10 U	10	3.4	2	10/26/16 16:54	
Dibromochloromethane	2.0 U	2.0	0.62	2	10/26/16 16:54	
Chlorobenzene	2.0 U	2.0	0.58	2	10/26/16 16:54	
Ethylbenzene	2.0 U	2.0	0.40	2	10/26/16 16:54	
m,p-Xylenes	4.0 U	4.0	0.66	2	10/26/16 16:54	
o-Xylene	2.0 U	2.0	0.40	2	10/26/16 16:54	
Styrene	2.0 U	2.0	0.40	2	10/26/16 16:54	
Bromoform	2.0 U	2.0	0.84	2	10/26/16 16:54	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	10/26/16 16:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-14(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/26/16 16:54	
Toluene-d8	111	87 - 121	10/26/16 16:54	
Dibromofluoromethane	111	89 - 119	10/26/16 16:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-7-161019	**Units:**	ug/L
Lab Code:	R1611185-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0	U	5.0	1.1	5	10/27/16 16:51	
Vinyl Chloride	**490**		5.0	1.6	5	10/27/16 16:51	
Chloroethane	5.0	U	5.0	1.2	5	10/27/16 16:51	
Bromomethane	5.0	U	5.0	1.5	5	10/27/16 16:51	
1,1-Dichloroethene	5.0	U	5.0	2.9	5	10/27/16 16:51	
Acetone	25	U	25	6.2	5	10/27/16 16:51	
Carbon Disulfide	**1.5**	**J**	5.0	1.1	5	10/27/16 16:51	
Methylene Chloride	**16**		5.0	3.0	5	10/27/16 16:51	
trans-1,2-Dichloroethene	**4.0**	**J**	5.0	1.7	5	10/27/16 16:51	
1,1-Dichloroethane	**23**		5.0	1.0	5	10/27/16 16:51	
cis-1,2-Dichloroethene	**690**		5.0	1.5	5	10/27/16 16:51	
2-Butanone (MEK)	25	U	25	4.1	5	10/27/16 16:51	
Chloroform	5.0	U	5.0	1.3	5	10/27/16 16:51	
1,1,1-Trichloroethane	**51**		5.0	1.8	5	10/27/16 16:51	
Carbon Tetrachloride	5.0	U	5.0	2.3	5	10/27/16 16:51	
Benzene	5.0	U	5.0	1.0	5	10/27/16 16:51	
1,2-Dichloroethane	5.0	U	5.0	1.8	5	10/27/16 16:51	
Trichloroethene	**6.4**		5.0	1.1	5	10/27/16 16:51	
1,2-Dichloropropane	5.0	U	5.0	1.0	5	10/27/16 16:51	
Bromodichloromethane	5.0	U	5.0	1.6	5	10/27/16 16:51	
cis-1,3-Dichloropropene	5.0	U	5.0	1.2	5	10/27/16 16:51	
4-Methyl-2-pentanone (MIBK)	25	U	25	3.4	5	10/27/16 16:51	
Toluene	5.0	U	5.0	1.0	5	10/27/16 16:51	
trans-1,3-Dichloropropene	5.0	U	5.0	1.0	5	10/27/16 16:51	
1,1,2-Trichloroethane	5.0	U	5.0	1.7	5	10/27/16 16:51	
Tetrachloroethene	5.0	U	5.0	1.5	5	10/27/16 16:51	
2-Hexanone	25	U	25	8.3	5	10/27/16 16:51	
Dibromochloromethane	5.0	U	5.0	1.6	5	10/27/16 16:51	
Chlorobenzene	5.0	U	5.0	1.5	5	10/27/16 16:51	
Ethylbenzene	5.0	U	5.0	1.0	5	10/27/16 16:51	
m,p-Xylenes	10	U	10	1.7	5	10/27/16 16:51	
o-Xylene	5.0	U	5.0	1.0	5	10/27/16 16:51	
Styrene	5.0	U	5.0	1.0	5	10/27/16 16:51	
Bromoform	5.0	U	5.0	2.1	5	10/27/16 16:51	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.3	5	10/27/16 16:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-7-161019	**Units:**	ug/L
Lab Code:	R1611185-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 16:51	
Toluene-d8	111	87 - 121	10/27/16 16:51	
Dibromofluoromethane	112	89 - 119	10/27/16 16:51	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-13-161019	**Units:**	ug/L
Lab Code:	R1611185-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/27/16 17:23	
Vinyl Chloride	**550**	5.0	1.6	5	10/27/16 17:23	
Chloroethane	5.0 U	5.0	1.2	5	10/27/16 17:23	
Bromomethane	5.0 U	5.0	1.5	5	10/27/16 17:23	
1,1-Dichloroethene	**3.2 J**	5.0	2.9	5	10/27/16 17:23	
Acetone	25 U	25	6.2	5	10/27/16 17:23	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/27/16 17:23	
Methylene Chloride	5.0 U	5.0	3.0	5	10/27/16 17:23	
trans-1,2-Dichloroethene	**4.6 J**	5.0	1.7	5	10/27/16 17:23	
1,1-Dichloroethane	**28**	5.0	1.0	5	10/27/16 17:23	
cis-1,2-Dichloroethene	**650**	5.0	1.5	5	10/27/16 17:23	
2-Butanone (MEK)	25 U	25	4.1	5	10/27/16 17:23	
Chloroform	**2.4 J**	5.0	1.3	5	10/27/16 17:23	
1,1,1-Trichloroethane	**66**	5.0	1.8	5	10/27/16 17:23	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/27/16 17:23	
Benzene	5.0 U	5.0	1.0	5	10/27/16 17:23	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/27/16 17:23	
Trichloroethene	**4.5 J**	5.0	1.1	5	10/27/16 17:23	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/27/16 17:23	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/27/16 17:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/27/16 17:23	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/27/16 17:23	
Toluene	5.0 U	5.0	1.0	5	10/27/16 17:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/27/16 17:23	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/27/16 17:23	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/27/16 17:23	
2-Hexanone	25 U	25	8.3	5	10/27/16 17:23	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/27/16 17:23	
Chlorobenzene	5.0 U	5.0	1.5	5	10/27/16 17:23	
Ethylbenzene	5.0 U	5.0	1.0	5	10/27/16 17:23	
m,p-Xylenes	10 U	10	1.7	5	10/27/16 17:23	
o-Xylene	5.0 U	5.0	1.0	5	10/27/16 17:23	
Styrene	5.0 U	5.0	1.0	5	10/27/16 17:23	
Bromoform	5.0 U	5.0	2.1	5	10/27/16 17:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/27/16 17:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-13-161019	**Units:**	ug/L
Lab Code:	R1611185-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 17:23	
Toluene-d8	112	87 - 121	10/27/16 17:23	
Dibromofluoromethane	108	89 - 119	10/27/16 17:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-8-161019	**Units:**	ug/L
Lab Code:	R1611185-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/27/16 17:53	
Vinyl Chloride	**260**	5.0	1.6	5	10/27/16 17:53	
Chloroethane	5.0 U	5.0	1.2	5	10/27/16 17:53	
Bromomethane	5.0 U	5.0	1.5	5	10/27/16 17:53	
1,1-Dichloroethene	**3.2 J**	5.0	2.9	5	10/27/16 17:53	
Acetone	25 U	25	6.2	5	10/27/16 17:53	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/27/16 17:53	
Methylene Chloride	5.0 U	5.0	3.0	5	10/27/16 17:53	
trans-1,2-Dichloroethene	**4.3 J**	5.0	1.7	5	10/27/16 17:53	
1,1-Dichloroethane	**13**	5.0	1.0	5	10/27/16 17:53	
cis-1,2-Dichloroethene	**810**	5.0	1.5	5	10/27/16 17:53	
2-Butanone (MEK)	25 U	25	4.1	5	10/27/16 17:53	
Chloroform	**2.8 J**	5.0	1.3	5	10/27/16 17:53	
1,1,1-Trichloroethane	**26**	5.0	1.8	5	10/27/16 17:53	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/27/16 17:53	
Benzene	5.0 U	5.0	1.0	5	10/27/16 17:53	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/27/16 17:53	
Trichloroethene	**5.5**	5.0	1.1	5	10/27/16 17:53	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/27/16 17:53	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/27/16 17:53	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/27/16 17:53	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/27/16 17:53	
Toluene	5.0 U	5.0	1.0	5	10/27/16 17:53	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/27/16 17:53	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/27/16 17:53	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/27/16 17:53	
2-Hexanone	25 U	25	8.3	5	10/27/16 17:53	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/27/16 17:53	
Chlorobenzene	5.0 U	5.0	1.5	5	10/27/16 17:53	
Ethylbenzene	5.0 U	5.0	1.0	5	10/27/16 17:53	
m,p-Xylenes	10 U	10	1.7	5	10/27/16 17:53	
o-Xylene	5.0 U	5.0	1.0	5	10/27/16 17:53	
Styrene	5.0 U	5.0	1.0	5	10/27/16 17:53	
Bromoform	5.0 U	5.0	2.1	5	10/27/16 17:53	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/27/16 17:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-EW-8-161019	**Units:**	ug/L
Lab Code:	R1611185-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 17:53	
Toluene-d8	112	87 - 121	10/27/16 17:53	
Dibromofluoromethane	110	89 - 119	10/27/16 17:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-1-161019	**Units:**	ug/L
Lab Code:	R1611185-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/26/16 10:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/26/16 10:51	
Chloroethane	1.0 U	1.0	0.24	1	10/26/16 10:51	
Bromomethane	1.0 U	1.0	0.29	1	10/26/16 10:51	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/26/16 10:51	
Acetone	5.0 U	5.0	1.3	1	10/26/16 10:51	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/26/16 10:51	
Methylene Chloride	1.0 U	1.0	0.60	1	10/26/16 10:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/26/16 10:51	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/26/16 10:51	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/26/16 10:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/26/16 10:51	
Chloroform	1.0 U	1.0	0.25	1	10/26/16 10:51	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/26/16 10:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/26/16 10:51	
Benzene	1.0 U	1.0	0.20	1	10/26/16 10:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/26/16 10:51	
Trichloroethene	1.0 U	1.0	0.22	1	10/26/16 10:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/26/16 10:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/26/16 10:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/26/16 10:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/26/16 10:51	
Toluene	1.0 U	1.0	0.20	1	10/26/16 10:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/26/16 10:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/26/16 10:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/26/16 10:51	
2-Hexanone	5.0 U	5.0	1.7	1	10/26/16 10:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/26/16 10:51	
Chlorobenzene	1.0 U	1.0	0.29	1	10/26/16 10:51	
Ethylbenzene	1.0 U	1.0	0.20	1	10/26/16 10:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/26/16 10:51	
o-Xylene	1.0 U	1.0	0.20	1	10/26/16 10:51	
Styrene	1.0 U	1.0	0.20	1	10/26/16 10:51	
Bromoform	1.0 U	1.0	0.42	1	10/26/16 10:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/26/16 10:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 15:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-1-161019	**Units:**	ug/L
Lab Code:	R1611185-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 10:51	
Toluene-d8	111	87 - 121	10/26/16 10:51	
Dibromofluoromethane	109	89 - 119	10/26/16 10:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-01(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	10/27/16 18:23	
Vinyl Chloride	**96**	5.0	1.6	5	10/27/16 18:23	
Chloroethane	5.0 U	5.0	1.2	5	10/27/16 18:23	
Bromomethane	5.0 U	5.0	1.5	5	10/27/16 18:23	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	10/27/16 18:23	
Acetone	**7.5 J**	25	6.2	5	10/27/16 18:23	
Carbon Disulfide	5.0 U	5.0	1.1	5	10/27/16 18:23	
Methylene Chloride	5.0 U	5.0	3.0	5	10/27/16 18:23	
trans-1,2-Dichloroethene	**6.3**	5.0	1.7	5	10/27/16 18:23	
1,1-Dichloroethane	**8.4**	5.0	1.0	5	10/27/16 18:23	
cis-1,2-Dichloroethene	**640**	5.0	1.5	5	10/27/16 18:23	
2-Butanone (MEK)	25 U	25	4.1	5	10/27/16 18:23	
Chloroform	**2.1 J**	5.0	1.3	5	10/27/16 18:23	
1,1,1-Trichloroethane	**13**	5.0	1.8	5	10/27/16 18:23	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	10/27/16 18:23	
Benzene	5.0 U	5.0	1.0	5	10/27/16 18:23	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	10/27/16 18:23	
Trichloroethene	**120**	5.0	1.1	5	10/27/16 18:23	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/27/16 18:23	
Bromodichloromethane	5.0 U	5.0	1.6	5	10/27/16 18:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/27/16 18:23	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	10/27/16 18:23	
Toluene	5.0 U	5.0	1.0	5	10/27/16 18:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/27/16 18:23	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	10/27/16 18:23	
Tetrachloroethene	5.0 U	5.0	1.5	5	10/27/16 18:23	
2-Hexanone	25 U	25	8.3	5	10/27/16 18:23	
Dibromochloromethane	5.0 U	5.0	1.6	5	10/27/16 18:23	
Chlorobenzene	5.0 U	5.0	1.5	5	10/27/16 18:23	
Ethylbenzene	5.0 U	5.0	1.0	5	10/27/16 18:23	
m,p-Xylenes	10 U	10	1.7	5	10/27/16 18:23	
o-Xylene	5.0 U	5.0	1.0	5	10/27/16 18:23	
Styrene	5.0 U	5.0	1.0	5	10/27/16 18:23	
Bromoform	5.0 U	5.0	2.1	5	10/27/16 18:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	10/27/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-01(1)-161019	**Units:**	ug/L
Lab Code:	R1611185-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 18:23	
Toluene-d8	111	87 - 121	10/27/16 18:23	
Dibromofluoromethane	108	89 - 119	10/27/16 18:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-12-161019	**Units:**	ug/L
Lab Code:	R1611185-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0	U	1.0	0.21	1	10/26/16 13:53	
Vinyl Chloride	**180**		1.0	0.32	1	10/26/16 13:53	
Chloroethane	1.0	U	1.0	0.24	1	10/26/16 13:53	
Bromomethane	1.0	U	1.0	0.29	1	10/26/16 13:53	
1,1-Dichloroethene	**5.2**		1.0	0.57	1	10/26/16 13:53	
Acetone	5.0	U	5.0	1.3	1	10/26/16 13:53	
Carbon Disulfide	**0.90**	**J**	1.0	0.22	1	10/26/16 13:53	
Methylene Chloride	1.0	U	1.0	0.60	1	10/26/16 13:53	
trans-1,2-Dichloroethene	**15**		1.0	0.33	1	10/26/16 13:53	
1,1-Dichloroethane	**13**		1.0	0.20	1	10/26/16 13:53	
cis-1,2-Dichloroethene	**1400**	**E**	1.0	0.30	1	10/26/16 13:53	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	10/26/16 13:53	
Chloroform	**1.1**		1.0	0.25	1	10/26/16 13:53	
1,1,1-Trichloroethane	**34**		1.0	0.36	1	10/26/16 13:53	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	10/26/16 13:53	
Benzene	1.0	U	1.0	0.20	1	10/26/16 13:53	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	10/26/16 13:53	
Trichloroethene	**83**		1.0	0.22	1	10/26/16 13:53	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	10/26/16 13:53	
Bromodichloromethane	1.0	U	1.0	0.32	1	10/26/16 13:53	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	10/26/16 13:53	
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	1	10/26/16 13:53	
Toluene	1.0	U	1.0	0.20	1	10/26/16 13:53	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	10/26/16 13:53	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	10/26/16 13:53	
Tetrachloroethene	1.0	U	1.0	0.30	1	10/26/16 13:53	
2-Hexanone	5.0	U	5.0	1.7	1	10/26/16 13:53	
Dibromochloromethane	1.0	U	1.0	0.31	1	10/26/16 13:53	
Chlorobenzene	1.0	U	1.0	0.29	1	10/26/16 13:53	
Ethylbenzene	1.0	U	1.0	0.20	1	10/26/16 13:53	
m,p-Xylenes	2.0	U	2.0	0.33	1	10/26/16 13:53	
o-Xylene	1.0	U	1.0	0.20	1	10/26/16 13:53	
Styrene	1.0	U	1.0	0.20	1	10/26/16 13:53	
Bromoform	1.0	U	1.0	0.42	1	10/26/16 13:53	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	10/26/16 13:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/26/16 13:53	
Toluene-d8	112	87 - 121	10/26/16 13:53	
Dibromofluoromethane	110	89 - 119	10/26/16 13:53	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16 16:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-12-161019	**Units:**	ug/L
Lab Code:	R1611185-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	10/27/16 19:23	
Vinyl Chloride	**170 D**	20	6.4	20	10/27/16 19:23	
Chloroethane	20 U	20	4.8	20	10/27/16 19:23	
Bromomethane	20 U	20	5.8	20	10/27/16 19:23	
1,1-Dichloroethene	20 U	20	12	20	10/27/16 19:23	
Acetone	100 U	100	25	20	10/27/16 19:23	
Carbon Disulfide	20 U	20	4.4	20	10/27/16 19:23	
Methylene Chloride	20 U	20	12	20	10/27/16 19:23	
trans-1,2-Dichloroethene	20 U	20	6.7	20	10/27/16 19:23	
1,1-Dichloroethane	**12 DJ**	20	4.0	20	10/27/16 19:23	
cis-1,2-Dichloroethene	**1700 D**	20	6.0	20	10/27/16 19:23	
2-Butanone (MEK)	100 U	100	17	20	10/27/16 19:23	
Chloroform	**6.0 DJ**	20	5.0	20	10/27/16 19:23	
1,1,1-Trichloroethane	**32 D**	20	7.2	20	10/27/16 19:23	
Carbon Tetrachloride	20 U	20	9.0	20	10/27/16 19:23	
Benzene	20 U	20	4.0	20	10/27/16 19:23	
1,2-Dichloroethane	20 U	20	7.2	20	10/27/16 19:23	
Trichloroethene	**75 D**	20	4.4	20	10/27/16 19:23	
1,2-Dichloropropane	20 U	20	4.0	20	10/27/16 19:23	
Bromodichloromethane	20 U	20	6.4	20	10/27/16 19:23	
cis-1,3-Dichloropropene	20 U	20	4.8	20	10/27/16 19:23	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	10/27/16 19:23	
Toluene	20 U	20	4.0	20	10/27/16 19:23	
trans-1,3-Dichloropropene	20 U	20	4.0	20	10/27/16 19:23	
1,1,2-Trichloroethane	20 U	20	6.9	20	10/27/16 19:23	
Tetrachloroethene	20 U	20	6.0	20	10/27/16 19:23	
2-Hexanone	100 U	100	34	20	10/27/16 19:23	
Dibromochloromethane	20 U	20	6.2	20	10/27/16 19:23	
Chlorobenzene	20 U	20	5.8	20	10/27/16 19:23	
Ethylbenzene	20 U	20	4.0	20	10/27/16 19:23	
m,p-Xylenes	40 U	40	6.7	20	10/27/16 19:23	
o-Xylene	20 U	20	4.0	20	10/27/16 19:23	
Styrene	20 U	20	4.0	20	10/27/16 19:23	
Bromoform	20 U	20	8.4	20	10/27/16 19:23	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	10/27/16 19:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/27/16 19:23	
Toluene-d8	114	87 - 121	10/27/16 19:23	
Dibromofluoromethane	107	89 - 119	10/27/16 19:23	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	10/27/16 19:53	
Vinyl Chloride	**330**	50	16	50	10/27/16 19:53	
Chloroethane	50 U	50	12	50	10/27/16 19:53	
Bromomethane	50 U	50	15	50	10/27/16 19:53	
1,1-Dichloroethene	50 U	50	29	50	10/27/16 19:53	
Acetone	250 U	250	62	50	10/27/16 19:53	
Carbon Disulfide	50 U	50	11	50	10/27/16 19:53	
Methylene Chloride	**220**	50	30	50	10/27/16 19:53	
trans-1,2-Dichloroethene	50 U	50	17	50	10/27/16 19:53	
1,1-Dichloroethane	**26 J**	50	10	50	10/27/16 19:53	
cis-1,2-Dichloroethene	**5100**	50	15	50	10/27/16 19:53	
2-Butanone (MEK)	250 U	250	41	50	10/27/16 19:53	
Chloroform	50 U	50	13	50	10/27/16 19:53	
1,1,1-Trichloroethane	**73**	50	18	50	10/27/16 19:53	
Carbon Tetrachloride	50 U	50	23	50	10/27/16 19:53	
Benzene	50 U	50	10	50	10/27/16 19:53	
1,2-Dichloroethane	50 U	50	18	50	10/27/16 19:53	
Trichloroethene	**3900**	50	11	50	10/27/16 19:53	
1,2-Dichloropropane	50 U	50	10	50	10/27/16 19:53	
Bromodichloromethane	50 U	50	16	50	10/27/16 19:53	
cis-1,3-Dichloropropene	50 U	50	12	50	10/27/16 19:53	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	10/27/16 19:53	
Toluene	50 U	50	10	50	10/27/16 19:53	
trans-1,3-Dichloropropene	50 U	50	10	50	10/27/16 19:53	
1,1,2-Trichloroethane	50 U	50	17	50	10/27/16 19:53	
Tetrachloroethene	50 U	50	15	50	10/27/16 19:53	
2-Hexanone	250 U	250	83	50	10/27/16 19:53	
Dibromochloromethane	50 U	50	16	50	10/27/16 19:53	
Chlorobenzene	50 U	50	15	50	10/27/16 19:53	
Ethylbenzene	50 U	50	10	50	10/27/16 19:53	
m,p-Xylenes	100 U	100	17	50	10/27/16 19:53	
o-Xylene	50 U	50	10	50	10/27/16 19:53	
Styrene	50 U	50	10	50	10/27/16 19:53	
Bromoform	50 U	50	21	50	10/27/16 19:53	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	10/27/16 19:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:50
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 19:53	
Toluene-d8	114	87 - 121	10/27/16 19:53	
Dibromofluoromethane	109	89 - 119	10/27/16 19:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(3)-161020	**Units:**	ug/L
Lab Code:	R1611185-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 14:20	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 14:20	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 14:20	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 14:20	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 14:20	
Acetone	5.0 U	5.0	1.3	1	10/27/16 14:20	
Carbon Disulfide	**1.3**	1.0	0.22	1	10/27/16 14:20	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 14:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 14:20	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 14:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 14:20	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 14:20	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 14:20	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 14:20	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 14:20	
Benzene	1.0 U	1.0	0.20	1	10/27/16 14:20	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 14:20	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 14:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 14:20	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 14:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 14:20	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 14:20	
Toluene	1.0 U	1.0	0.20	1	10/27/16 14:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 14:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 14:20	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 14:20	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 14:20	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 14:20	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 14:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 14:20	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 14:20	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 14:20	
Styrene	1.0 U	1.0	0.20	1	10/27/16 14:20	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 14:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 14:20	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 09:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-02(3)-161020	**Units:**	ug/L
Lab Code:	R1611185-022	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	10/27/16 14:20	
Toluene-d8	114	87 - 121	10/27/16 14:20	
Dibromofluoromethane	109	89 - 119	10/27/16 14:20	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-10(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 14:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 14:51	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 14:51	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 14:51	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 14:51	
Acetone	5.0 U	5.0	1.3	1	10/27/16 14:51	
Carbon Disulfide	**0.27 J**	1.0	0.22	1	10/27/16 14:51	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 14:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 14:51	
1,1-Dichloroethane	**1.8**	1.0	0.20	1	10/27/16 14:51	
cis-1,2-Dichloroethene	**4.7**	1.0	0.30	1	10/27/16 14:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 14:51	
Chloroform	**1.8**	1.0	0.25	1	10/27/16 14:51	
1,1,1-Trichloroethane	**0.68 J**	1.0	0.36	1	10/27/16 14:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 14:51	
Benzene	1.0 U	1.0	0.20	1	10/27/16 14:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 14:51	
Trichloroethene	**1.2**	1.0	0.22	1	10/27/16 14:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 14:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 14:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 14:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 14:51	
Toluene	1.0 U	1.0	0.20	1	10/27/16 14:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 14:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 14:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 14:51	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 14:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 14:51	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 14:51	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 14:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 14:51	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 14:51	
Styrene	1.0 U	1.0	0.20	1	10/27/16 14:51	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 14:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 14:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-10(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 14:51	
Toluene-d8	104	87 - 121	10/27/16 14:51	
Dibromofluoromethane	110	89 - 119	10/27/16 14:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-11-161020	**Units:**	ug/L
Lab Code:	R1611185-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10	U	10	2.1	10	10/28/16 13:44	
Vinyl Chloride	**450**		10	3.2	10	10/28/16 13:44	
Chloroethane	10	U	10	2.4	10	10/28/16 13:44	
Bromomethane	10	U	10	2.9	10	10/28/16 13:44	
1,1-Dichloroethene	10	U	10	5.7	10	10/28/16 13:44	
Acetone	50	U	50	13	10	10/28/16 13:44	
Carbon Disulfide	**3.4**	**J**	10	2.2	10	10/28/16 13:44	
Methylene Chloride	10	U	10	6.0	10	10/28/16 13:44	
trans-1,2-Dichloroethene	**5.9**	**J**	10	3.3	10	10/28/16 13:44	
1,1-Dichloroethane	**25**		10	2.0	10	10/28/16 13:44	
cis-1,2-Dichloroethene	**1500**		10	3.0	10	10/28/16 13:44	
2-Butanone (MEK)	50	U	50	8.2	10	10/28/16 13:44	
Chloroform	10	U	10	2.5	10	10/28/16 13:44	
1,1,1-Trichloroethane	**110**		10	3.6	10	10/28/16 13:44	
Carbon Tetrachloride	10	U	10	4.5	10	10/28/16 13:44	
Benzene	10	U	10	2.0	10	10/28/16 13:44	
1,2-Dichloroethane	10	U	10	3.6	10	10/28/16 13:44	
Trichloroethene	**14**		10	2.2	10	10/28/16 13:44	
1,2-Dichloropropane	10	U	10	2.0	10	10/28/16 13:44	
Bromodichloromethane	10	U	10	3.2	10	10/28/16 13:44	
cis-1,3-Dichloropropene	10	U	10	2.4	10	10/28/16 13:44	
4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	10	10/28/16 13:44	
Toluene	10	U	10	2.0	10	10/28/16 13:44	
trans-1,3-Dichloropropene	10	U	10	2.0	10	10/28/16 13:44	
1,1,2-Trichloroethane	10	U	10	3.4	10	10/28/16 13:44	
Tetrachloroethene	10	U	10	3.0	10	10/28/16 13:44	
2-Hexanone	50	U	50	17	10	10/28/16 13:44	
Dibromochloromethane	10	U	10	3.1	10	10/28/16 13:44	
Chlorobenzene	10	U	10	2.9	10	10/28/16 13:44	
Ethylbenzene	10	U	10	2.0	10	10/28/16 13:44	
m,p-Xylenes	20	U	20	3.3	10	10/28/16 13:44	
o-Xylene	10	U	10	2.0	10	10/28/16 13:44	
Styrene	10	U	10	2.0	10	10/28/16 13:44	
Bromoform	10	U	10	4.2	10	10/28/16 13:44	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	10/28/16 13:44	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:40
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-11-161020	**Units:**	ug/L
Lab Code:	R1611185-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 13:44	
Toluene-d8	113	87 - 121	10/28/16 13:44	
Dibromofluoromethane	109	89 - 119	10/28/16 13:44	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-2-101620	**Units:**	ug/L
Lab Code:	R1611185-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 13:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 13:51	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 13:51	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 13:51	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 13:51	
Acetone	5.0 U	5.0	1.3	1	10/27/16 13:51	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 13:51	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 13:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 13:51	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 13:51	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 13:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 13:51	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 13:51	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 13:51	
Benzene	1.0 U	1.0	0.20	1	10/27/16 13:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:51	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 13:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 13:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 13:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 13:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 13:51	
Toluene	1.0 U	1.0	0.20	1	10/27/16 13:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 13:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 13:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 13:51	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 13:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 13:51	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 13:51	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 13:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 13:51	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 13:51	
Styrene	1.0 U	1.0	0.20	1	10/27/16 13:51	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 13:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 13:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 10:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-FB-2-101620	**Units:**	ug/L
Lab Code:	R1611185-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 13:51	
Toluene-d8	114	87 - 121	10/27/16 13:51	
Dibromofluoromethane	111	89 - 119	10/27/16 13:51	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-14(1)-101620	**Units:**	ug/L
Lab Code:	R1611185-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 12:13	
Vinyl Chloride	**180**	1.0	0.32	1	10/28/16 12:13	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 12:13	
Bromomethane	1.0 U	1.0	0.29	1	10/28/16 12:13	
1,1-Dichloroethene	**1.3**	1.0	0.57	1	10/28/16 12:13	
Acetone	**1.6 J**	5.0	1.3	1	10/28/16 12:13	
Carbon Disulfide	**0.71 J**	1.0	0.22	1	10/28/16 12:13	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 12:13	
trans-1,2-Dichloroethene	**1.8**	1.0	0.33	1	10/28/16 12:13	
1,1-Dichloroethane	**20**	1.0	0.20	1	10/28/16 12:13	
cis-1,2-Dichloroethene	**170**	1.0	0.30	1	10/28/16 12:13	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 12:13	
Chloroform	1.0 U	1.0	0.25	1	10/28/16 12:13	
1,1,1-Trichloroethane	**81**	1.0	0.36	1	10/28/16 12:13	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 12:13	
Benzene	1.0 U	1.0	0.20	1	10/28/16 12:13	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 12:13	
Trichloroethene	**1.8**	1.0	0.22	1	10/28/16 12:13	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 12:13	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 12:13	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 12:13	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 12:13	
Toluene	1.0 U	1.0	0.20	1	10/28/16 12:13	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 12:13	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 12:13	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 12:13	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 12:13	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 12:13	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 12:13	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 12:13	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 12:13	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 12:13	
Styrene	1.0 U	1.0	0.20	1	10/28/16 12:13	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 12:13	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 12:13	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:10
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-14(1)-101620	**Units:**	ug/L
Lab Code:	R1611185-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 12:13	
Toluene-d8	114	87 - 121	10/28/16 12:13	
Dibromofluoromethane	110	89 - 119	10/28/16 12:13	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-13(3)-101620	**Units:**	ug/L
Lab Code:	R1611185-027	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	500	U	500	110	500	10/28/16 04:54	
Vinyl Chloride	**610**		500	160	500	10/28/16 04:54	
Chloroethane	500	U	500	120	500	10/28/16 04:54	
Bromomethane	500	U	500	150	500	10/28/16 04:54	
1,1-Dichloroethene	500	U	500	290	500	10/28/16 04:54	
Acetone	2500	U	2500	620	500	10/28/16 04:54	
Carbon Disulfide	**710**		500	110	500	10/28/16 04:54	
Methylene Chloride	500	U	500	300	500	10/28/16 04:54	
trans-1,2-Dichloroethene	**390**	**J**	500	170	500	10/28/16 04:54	
1,1-Dichloroethane	500	U	500	100	500	10/28/16 04:54	
cis-1,2-Dichloroethene	**57000**		500	150	500	10/28/16 04:54	
2-Butanone (MEK)	2500	U	2500	410	500	10/28/16 04:54	
Chloroform	**810**		500	130	500	10/28/16 04:54	
1,1,1-Trichloroethane	500	U	500	180	500	10/28/16 04:54	
Carbon Tetrachloride	500	U	500	230	500	10/28/16 04:54	
Benzene	500	U	500	100	500	10/28/16 04:54	
1,2-Dichloroethane	500	U	500	180	500	10/28/16 04:54	
Trichloroethene	**72000**		500	110	500	10/28/16 04:54	
1,2-Dichloropropane	500	U	500	100	500	10/28/16 04:54	
Bromodichloromethane	**210**	**J**	500	160	500	10/28/16 04:54	
cis-1,3-Dichloropropene	500	U	500	120	500	10/28/16 04:54	
4-Methyl-2-pentanone (MIBK)	2500	U	2500	340	500	10/28/16 04:54	
Toluene	500	U	500	100	500	10/28/16 04:54	
trans-1,3-Dichloropropene	500	U	500	100	500	10/28/16 04:54	
1,1,2-Trichloroethane	500	U	500	170	500	10/28/16 04:54	
Tetrachloroethene	500	U	500	150	500	10/28/16 04:54	
2-Hexanone	2500	U	2500	830	500	10/28/16 04:54	
Dibromochloromethane	500	U	500	160	500	10/28/16 04:54	
Chlorobenzene	500	U	500	150	500	10/28/16 04:54	
Ethylbenzene	500	U	500	100	500	10/28/16 04:54	
m,p-Xylenes	1000	U	1000	170	500	10/28/16 04:54	
o-Xylene	500	U	500	100	500	10/28/16 04:54	
Styrene	500	U	500	100	500	10/28/16 04:54	
Bromoform	500	U	500	210	500	10/28/16 04:54	
1,1,2,2-Tetrachloroethane	500	U	500	130	500	10/28/16 04:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 11:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-13(3)-101620	**Units:**	ug/L
Lab Code:	R1611185-027	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/28/16 04:54	
Toluene-d8	113	87 - 121	10/28/16 04:54	
Dibromofluoromethane	107	89 - 119	10/28/16 04:54	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-10-161020	**Units:**	ug/L
Lab Code:	R1611185-028	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	10/28/16 03:24	
Vinyl Chloride	**110**	10	3.2	10	10/28/16 03:24	
Chloroethane	10 U	10	2.4	10	10/28/16 03:24	
Bromomethane	10 U	10	2.9	10	10/28/16 03:24	
1,1-Dichloroethene	**5.9 J**	10	5.7	10	10/28/16 03:24	
Acetone	50 U	50	13	10	10/28/16 03:24	
Carbon Disulfide	10 U	10	2.2	10	10/28/16 03:24	
Methylene Chloride	**2300 E**	10	6.0	10	10/28/16 03:24	
trans-1,2-Dichloroethene	**3.8 J**	10	3.3	10	10/28/16 03:24	
1,1-Dichloroethane	**12**	10	2.0	10	10/28/16 03:24	
cis-1,2-Dichloroethene	**960**	10	3.0	10	10/28/16 03:24	
2-Butanone (MEK)	50 U	50	8.2	10	10/28/16 03:24	
Chloroform	**3.4 J**	10	2.5	10	10/28/16 03:24	
1,1,1-Trichloroethane	**57**	10	3.6	10	10/28/16 03:24	
Carbon Tetrachloride	10 U	10	4.5	10	10/28/16 03:24	
Benzene	10 U	10	2.0	10	10/28/16 03:24	
1,2-Dichloroethane	10 U	10	3.6	10	10/28/16 03:24	
Trichloroethene	**510**	10	2.2	10	10/28/16 03:24	
1,2-Dichloropropane	10 U	10	2.0	10	10/28/16 03:24	
Bromodichloromethane	10 U	10	3.2	10	10/28/16 03:24	
cis-1,3-Dichloropropene	10 U	10	2.4	10	10/28/16 03:24	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	10/28/16 03:24	
Toluene	10 U	10	2.0	10	10/28/16 03:24	
trans-1,3-Dichloropropene	10 U	10	2.0	10	10/28/16 03:24	
1,1,2-Trichloroethane	10 U	10	3.4	10	10/28/16 03:24	
Tetrachloroethene	10 U	10	3.0	10	10/28/16 03:24	
2-Hexanone	50 U	50	17	10	10/28/16 03:24	
Dibromochloromethane	10 U	10	3.1	10	10/28/16 03:24	
Chlorobenzene	10 U	10	2.9	10	10/28/16 03:24	
Ethylbenzene	10 U	10	2.0	10	10/28/16 03:24	
m,p-Xylenes	20 U	20	3.3	10	10/28/16 03:24	
o-Xylene	10 U	10	2.0	10	10/28/16 03:24	
Styrene	10 U	10	2.0	10	10/28/16 03:24	
Bromoform	10 U	10	4.2	10	10/28/16 03:24	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	10/28/16 03:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 03:24	
Toluene-d8	114	87 - 121	10/28/16 03:24	
Dibromofluoromethane	110	89 - 119	10/28/16 03:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:00
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-10-161020	**Units:**	ug/L
Lab Code:	R1611185-028	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	10/28/16 14:44	
Vinyl Chloride	**100 D**	20	6.4	20	10/28/16 14:44	
Chloroethane	20 U	20	4.8	20	10/28/16 14:44	
Bromomethane	20 U	20	5.8	20	10/28/16 14:44	
1,1-Dichloroethene	20 U	20	12	20	10/28/16 14:44	
Acetone	100 U	100	25	20	10/28/16 14:44	
Carbon Disulfide	20 U	20	4.4	20	10/28/16 14:44	
Methylene Chloride	**2300 D**	20	12	20	10/28/16 14:44	
trans-1,2-Dichloroethene	20 U	20	6.7	20	10/28/16 14:44	
1,1-Dichloroethane	**12 DJ**	20	4.0	20	10/28/16 14:44	
cis-1,2-Dichloroethene	**890 D**	20	6.0	20	10/28/16 14:44	
2-Butanone (MEK)	100 U	100	17	20	10/28/16 14:44	
Chloroform	20 U	20	5.0	20	10/28/16 14:44	
1,1,1-Trichloroethane	**54 D**	20	7.2	20	10/28/16 14:44	
Carbon Tetrachloride	20 U	20	9.0	20	10/28/16 14:44	
Benzene	20 U	20	4.0	20	10/28/16 14:44	
1,2-Dichloroethane	20 U	20	7.2	20	10/28/16 14:44	
Trichloroethene	**480 D**	20	4.4	20	10/28/16 14:44	
1,2-Dichloropropane	20 U	20	4.0	20	10/28/16 14:44	
Bromodichloromethane	20 U	20	6.4	20	10/28/16 14:44	
cis-1,3-Dichloropropene	20 U	20	4.8	20	10/28/16 14:44	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	10/28/16 14:44	
Toluene	20 U	20	4.0	20	10/28/16 14:44	
trans-1,3-Dichloropropene	20 U	20	4.0	20	10/28/16 14:44	
1,1,2-Trichloroethane	20 U	20	6.9	20	10/28/16 14:44	
Tetrachloroethene	20 U	20	6.0	20	10/28/16 14:44	
2-Hexanone	100 U	100	34	20	10/28/16 14:44	
Dibromochloromethane	20 U	20	6.2	20	10/28/16 14:44	
Chlorobenzene	20 U	20	5.8	20	10/28/16 14:44	
Ethylbenzene	20 U	20	4.0	20	10/28/16 14:44	
m,p-Xylenes	40 U	40	6.7	20	10/28/16 14:44	
o-Xylene	20 U	20	4.0	20	10/28/16 14:44	
Styrene	20 U	20	4.0	20	10/28/16 14:44	
Bromoform	20 U	20	8.4	20	10/28/16 14:44	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	10/28/16 14:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/28/16 14:44	
Toluene-d8	111	87 - 121	10/28/16 14:44	
Dibromofluoromethane	107	89 - 119	10/28/16 14:44	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-15(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-029	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	250	U	250	53	250	10/28/16 04:24	
Vinyl Chloride	**390**		250	80	250	10/28/16 04:24	
Chloroethane	250	U	250	60	250	10/28/16 04:24	
Bromomethane	250	U	250	73	250	10/28/16 04:24	
1,1-Dichloroethene	250	U	250	150	250	10/28/16 04:24	
Acetone	1300	U	1300	310	250	10/28/16 04:24	
Carbon Disulfide	**110**	**J**	250	55	250	10/28/16 04:24	
Methylene Chloride	**82000**	**E**	250	150	250	10/28/16 04:24	
trans-1,2-Dichloroethene	250	U	250	83	250	10/28/16 04:24	
1,1-Dichloroethane	250	U	250	50	250	10/28/16 04:24	
cis-1,2-Dichloroethene	**17000**		250	75	250	10/28/16 04:24	
2-Butanone (MEK)	1300	U	1300	210	250	10/28/16 04:24	
Chloroform	**410**		250	63	250	10/28/16 04:24	
1,1,1-Trichloroethane	**230**	**J**	250	90	250	10/28/16 04:24	
Carbon Tetrachloride	250	U	250	120	250	10/28/16 04:24	
Benzene	250	U	250	50	250	10/28/16 04:24	
1,2-Dichloroethane	250	U	250	90	250	10/28/16 04:24	
Trichloroethene	**110000**	**E**	250	55	250	10/28/16 04:24	
1,2-Dichloropropane	250	U	250	50	250	10/28/16 04:24	
Bromodichloromethane	**130**	**J**	250	80	250	10/28/16 04:24	
cis-1,3-Dichloropropene	250	U	250	60	250	10/28/16 04:24	
4-Methyl-2-pentanone (MIBK)	1300	U	1300	170	250	10/28/16 04:24	
Toluene	250	U	250	50	250	10/28/16 04:24	
trans-1,3-Dichloropropene	250	U	250	50	250	10/28/16 04:24	
1,1,2-Trichloroethane	250	U	250	85	250	10/28/16 04:24	
Tetrachloroethene	250	U	250	75	250	10/28/16 04:24	
2-Hexanone	1300	U	1300	420	250	10/28/16 04:24	
Dibromochloromethane	250	U	250	78	250	10/28/16 04:24	
Chlorobenzene	250	U	250	73	250	10/28/16 04:24	
Ethylbenzene	250	U	250	50	250	10/28/16 04:24	
m,p-Xylenes	500	U	500	83	250	10/28/16 04:24	
o-Xylene	250	U	250	50	250	10/28/16 04:24	
Styrene	250	U	250	50	250	10/28/16 04:24	
Bromoform	250	U	250	110	250	10/28/16 04:24	
1,1,2,2-Tetrachloroethane	250	U	250	63	250	10/28/16 04:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/28/16 04:24	
Toluene-d8	116	87 - 121	10/28/16 04:24	
Dibromofluoromethane	110	89 - 119	10/28/16 04:24	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-89-15(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-029	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1000	U	1000	210	1000	10/28/16 15:14	
Vinyl Chloride	**560**	**DJ**	1000	320	1000	10/28/16 15:14	
Chloroethane	1000	U	1000	240	1000	10/28/16 15:14	
Bromomethane	1000	U	1000	290	1000	10/28/16 15:14	
1,1-Dichloroethene	1000	U	1000	570	1000	10/28/16 15:14	
Acetone	5000	U	5000	1300	1000	10/28/16 15:14	
Carbon Disulfide	**230**	**DJ**	1000	220	1000	10/28/16 15:14	
Methylene Chloride	**110000**	**D**	1000	600	1000	10/28/16 15:14	
trans-1,2-Dichloroethene	1000	U	1000	330	1000	10/28/16 15:14	
1,1-Dichloroethane	1000	U	1000	200	1000	10/28/16 15:14	
cis-1,2-Dichloroethene	**21000**	**D**	1000	300	1000	10/28/16 15:14	
2-Butanone (MEK)	5000	U	5000	810	1000	10/28/16 15:14	
Chloroform	**1900**	**D**	1000	250	1000	10/28/16 15:14	
1,1,1-Trichloroethane	1000	U	1000	360	1000	10/28/16 15:14	
Carbon Tetrachloride	1000	U	1000	450	1000	10/28/16 15:14	
Benzene	1000	U	1000	200	1000	10/28/16 15:14	
1,2-Dichloroethane	1000	U	1000	360	1000	10/28/16 15:14	
Trichloroethene	**140000**	**D**	1000	220	1000	10/28/16 15:14	
1,2-Dichloropropane	1000	U	1000	200	1000	10/28/16 15:14	
Bromodichloromethane	**480**	**DJ**	1000	320	1000	10/28/16 15:14	
cis-1,3-Dichloropropene	1000	U	1000	240	1000	10/28/16 15:14	
4-Methyl-2-pentanone (MIBK)	5000	U	5000	670	1000	10/28/16 15:14	
Toluene	1000	U	1000	200	1000	10/28/16 15:14	
trans-1,3-Dichloropropene	1000	U	1000	200	1000	10/28/16 15:14	
1,1,2-Trichloroethane	1000	U	1000	340	1000	10/28/16 15:14	
Tetrachloroethene	1000	U	1000	300	1000	10/28/16 15:14	
2-Hexanone	5000	U	5000	1700	1000	10/28/16 15:14	
Dibromochloromethane	1000	U	1000	310	1000	10/28/16 15:14	
Chlorobenzene	1000	U	1000	290	1000	10/28/16 15:14	
Ethylbenzene	1000	U	1000	200	1000	10/28/16 15:14	
m,p-Xylenes	2000	U	2000	330	1000	10/28/16 15:14	
o-Xylene	1000	U	1000	200	1000	10/28/16 15:14	
Styrene	1000	U	1000	200	1000	10/28/16 15:14	
Bromoform	1000	U	1000	420	1000	10/28/16 15:14	
1,1,2,2-Tetrachloroethane	1000	U	1000	250	1000	10/28/16 15:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/28/16 15:14	
Toluene-d8	113	87 - 121	10/28/16 15:14	
Dibromofluoromethane	109	89 - 119	10/28/16 15:14	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-14(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-030	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 15:21	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 15:21	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 15:21	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 15:21	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 15:21	
Acetone	**1.9 J**	5.0	1.3	1	10/27/16 15:21	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 15:21	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 15:21	
trans-1,2-Dichloroethene	**0.34 J**	1.0	0.33	1	10/27/16 15:21	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 15:21	
cis-1,2-Dichloroethene	**0.91 J**	1.0	0.30	1	10/27/16 15:21	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 15:21	
Chloroform	**0.53 J**	1.0	0.25	1	10/27/16 15:21	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 15:21	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 15:21	
Benzene	1.0 U	1.0	0.20	1	10/27/16 15:21	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 15:21	
Trichloroethene	**120**	1.0	0.22	1	10/27/16 15:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 15:21	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 15:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 15:21	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 15:21	
Toluene	1.0 U	1.0	0.20	1	10/27/16 15:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 15:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 15:21	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 15:21	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 15:21	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 15:21	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 15:21	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 15:21	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 15:21	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 15:21	
Styrene	1.0 U	1.0	0.20	1	10/27/16 15:21	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 15:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 15:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 12:45
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-14(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-030	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/27/16 15:21	
Toluene-d8	105	87 - 121	10/27/16 15:21	
Dibromofluoromethane	110	89 - 119	10/27/16 15:21	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DUP-2-161020	**Units:**	ug/L
Lab Code:	R1611185-031	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	**0.35 J**	1.0	0.21	1	10/28/16 00:53	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/28/16 00:53	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 00:53	
Bromomethane	**0.69 BJ**	1.0	0.29	1	10/28/16 00:53	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/28/16 00:53	
Acetone	**2.3 J**	5.0	1.3	1	10/28/16 00:53	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 00:53	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 00:53	
trans-1,2-Dichloroethene	**0.37 J**	1.0	0.33	1	10/28/16 00:53	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/16 00:53	
cis-1,2-Dichloroethene	**1.1**	1.0	0.30	1	10/28/16 00:53	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 00:53	
Chloroform	**0.57 J**	1.0	0.25	1	10/28/16 00:53	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/28/16 00:53	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 00:53	
Benzene	1.0 U	1.0	0.20	1	10/28/16 00:53	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 00:53	
Trichloroethene	**120**	1.0	0.22	1	10/28/16 00:53	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 00:53	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 00:53	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 00:53	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 00:53	
Toluene	1.0 U	1.0	0.20	1	10/28/16 00:53	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 00:53	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 00:53	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 00:53	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 00:53	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 00:53	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 00:53	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 00:53	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 00:53	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 00:53	
Styrene	1.0 U	1.0	0.20	1	10/28/16 00:53	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 00:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 00:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DUP-2-161020	**Units:**	ug/L
Lab Code:	R1611185-031	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 00:53	
Toluene-d8	106	87 - 121	10/28/16 00:53	
Dibromofluoromethane	109	89 - 119	10/28/16 00:53	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-08(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-032	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/24/16 20:24	
Vinyl Chloride	**72**	1.0	0.32	1	10/24/16 20:24	
Chloroethane	1.0 U	1.0	0.24	1	10/24/16 20:24	
Bromomethane	1.0 U	1.0	0.29	1	10/24/16 20:24	
1,1-Dichloroethene	**1.9**	1.0	0.57	1	10/24/16 20:24	
Acetone	5.0 U	5.0	1.3	1	10/24/16 20:24	
Carbon Disulfide	**0.23 J**	1.0	0.22	1	10/24/16 20:24	
Methylene Chloride	1.0 U	1.0	0.60	1	10/24/16 20:24	
trans-1,2-Dichloroethene	**1.6**	1.0	0.33	1	10/24/16 20:24	
1,1-Dichloroethane	**1.7**	1.0	0.20	1	10/24/16 20:24	
cis-1,2-Dichloroethene	**300 E**	1.0	0.30	1	10/24/16 20:24	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/24/16 20:24	
Chloroform	1.0 U	1.0	0.25	1	10/24/16 20:24	
1,1,1-Trichloroethane	**0.77 J**	1.0	0.36	1	10/24/16 20:24	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/24/16 20:24	
Benzene	1.0 U	1.0	0.20	1	10/24/16 20:24	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/24/16 20:24	
Trichloroethene	**3.5**	1.0	0.22	1	10/24/16 20:24	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/16 20:24	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/24/16 20:24	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/24/16 20:24	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/24/16 20:24	
Toluene	1.0 U	1.0	0.20	1	10/24/16 20:24	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/16 20:24	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/24/16 20:24	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/24/16 20:24	
2-Hexanone	5.0 U	5.0	1.7	1	10/24/16 20:24	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/24/16 20:24	
Chlorobenzene	1.0 U	1.0	0.29	1	10/24/16 20:24	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/16 20:24	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/24/16 20:24	
o-Xylene	1.0 U	1.0	0.20	1	10/24/16 20:24	
Styrene	1.0 U	1.0	0.20	1	10/24/16 20:24	
Bromoform	1.0 U	1.0	0.42	1	10/24/16 20:24	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/24/16 20:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85 - 122	10/24/16 20:24	
Toluene-d8	110	87 - 121	10/24/16 20:24	
Dibromofluoromethane	105	89 - 119	10/24/16 20:24	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:05
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-87-08(1)-161020	**Units:**	ug/L
Lab Code:	R1611185-032	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.5 U	2.5	0.53	2.5	10/27/16 15:51	
Vinyl Chloride	**68 D**	2.5	0.80	2.5	10/27/16 15:51	
Chloroethane	2.5 U	2.5	0.60	2.5	10/27/16 15:51	
Bromomethane	2.5 U	2.5	0.73	2.5	10/27/16 15:51	
1,1-Dichloroethene	**2.1 DJ**	2.5	1.5	2.5	10/27/16 15:51	
Acetone	13 U	13	3.1	2.5	10/27/16 15:51	
Carbon Disulfide	2.5 U	2.5	0.55	2.5	10/27/16 15:51	
Methylene Chloride	2.5 U	2.5	1.5	2.5	10/27/16 15:51	
trans-1,2-Dichloroethene	**2.4 DJ**	2.5	0.83	2.5	10/27/16 15:51	
1,1-Dichloroethane	**1.4 DJ**	2.5	0.50	2.5	10/27/16 15:51	
cis-1,2-Dichloroethene	**300 D**	2.5	0.75	2.5	10/27/16 15:51	
2-Butanone (MEK)	13 U	13	2.1	2.5	10/27/16 15:51	
Chloroform	2.5 U	2.5	0.63	2.5	10/27/16 15:51	
1,1,1-Trichloroethane	2.5 U	2.5	0.90	2.5	10/27/16 15:51	
Carbon Tetrachloride	2.5 U	2.5	1.2	2.5	10/27/16 15:51	
Benzene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
1,2-Dichloroethane	2.5 U	2.5	0.90	2.5	10/27/16 15:51	
Trichloroethene	**3.6 D**	2.5	0.55	2.5	10/27/16 15:51	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
Bromodichloromethane	2.5 U	2.5	0.80	2.5	10/27/16 15:51	
cis-1,3-Dichloropropene	2.5 U	2.5	0.60	2.5	10/27/16 15:51	
4-Methyl-2-pentanone (MIBK)	13 U	13	1.7	2.5	10/27/16 15:51	
Toluene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
trans-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
1,1,2-Trichloroethane	2.5 U	2.5	0.85	2.5	10/27/16 15:51	
Tetrachloroethene	2.5 U	2.5	0.75	2.5	10/27/16 15:51	
2-Hexanone	13 U	13	4.2	2.5	10/27/16 15:51	
Dibromochloromethane	2.5 U	2.5	0.78	2.5	10/27/16 15:51	
Chlorobenzene	2.5 U	2.5	0.73	2.5	10/27/16 15:51	
Ethylbenzene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
m,p-Xylenes	5.0 U	5.0	0.83	2.5	10/27/16 15:51	
o-Xylene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
Styrene	2.5 U	2.5	0.50	2.5	10/27/16 15:51	
Bromoform	2.5 U	2.5	1.1	2.5	10/27/16 15:51	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.63	2.5	10/27/16 15:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/27/16 15:51	
Toluene-d8	111	87 - 121	10/27/16 15:51	
Dibromofluoromethane	109	89 - 119	10/27/16 15:51	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-9-161020	**Units:**	ug/L
Lab Code:	R1611185-033	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0	U	1.0	0.21	1	10/28/16 01:23	
Vinyl Chloride	**2.5**		1.0	0.32	1	10/28/16 01:23	
Chloroethane	1.0	U	1.0	0.24	1	10/28/16 01:23	
Bromomethane	**0.45**	**BJ**	1.0	0.29	1	10/28/16 01:23	
1,1-Dichloroethene	**12**		1.0	0.57	1	10/28/16 01:23	
Acetone	5.0	U	5.0	1.3	1	10/28/16 01:23	
Carbon Disulfide	1.0	U	1.0	0.22	1	10/28/16 01:23	
Methylene Chloride	1.0	U	1.0	0.60	1	10/28/16 01:23	
trans-1,2-Dichloroethene	**8.6**		1.0	0.33	1	10/28/16 01:23	
1,1-Dichloroethane	**13**		1.0	0.20	1	10/28/16 01:23	
cis-1,2-Dichloroethene	**800**	**E**	1.0	0.30	1	10/28/16 01:23	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	10/28/16 01:23	
Chloroform	**3.0**		1.0	0.25	1	10/28/16 01:23	
1,1,1-Trichloroethane	**44**		1.0	0.36	1	10/28/16 01:23	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	10/28/16 01:23	
Benzene	**0.85**	**J**	1.0	0.20	1	10/28/16 01:23	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	10/28/16 01:23	
Trichloroethene	**1300**	**E**	1.0	0.22	1	10/28/16 01:23	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	10/28/16 01:23	
Bromodichloromethane	1.0	U	1.0	0.32	1	10/28/16 01:23	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	10/28/16 01:23	
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	1	10/28/16 01:23	
Toluene	1.0	U	1.0	0.20	1	10/28/16 01:23	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	10/28/16 01:23	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	10/28/16 01:23	
Tetrachloroethene	1.0	U	1.0	0.30	1	10/28/16 01:23	
2-Hexanone	5.0	U	5.0	1.7	1	10/28/16 01:23	
Dibromochloromethane	1.0	U	1.0	0.31	1	10/28/16 01:23	
Chlorobenzene	1.0	U	1.0	0.29	1	10/28/16 01:23	
Ethylbenzene	1.0	U	1.0	0.20	1	10/28/16 01:23	
m,p-Xylenes	2.0	U	2.0	0.33	1	10/28/16 01:23	
o-Xylene	1.0	U	1.0	0.20	1	10/28/16 01:23	
Styrene	1.0	U	1.0	0.20	1	10/28/16 01:23	
Bromoform	1.0	U	1.0	0.42	1	10/28/16 01:23	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	10/28/16 01:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 01:23	
Toluene-d8	111	87 - 121	10/28/16 01:23	
Dibromofluoromethane	110	89 - 119	10/28/16 01:23	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-DW-9-161020	**Units:**	ug/L
Lab Code:	R1611185-033	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	10/28/16 15:44	
Vinyl Chloride	20 U	20	6.4	20	10/28/16 15:44	
Chloroethane	20 U	20	4.8	20	10/28/16 15:44	
Bromomethane	20 U	20	5.8	20	10/28/16 15:44	
1,1-Dichloroethene	**17 DJ**	20	12	20	10/28/16 15:44	
Acetone	100 U	100	25	20	10/28/16 15:44	
Carbon Disulfide	**5.6 DJ**	20	4.4	20	10/28/16 15:44	
Methylene Chloride	20 U	20	12	20	10/28/16 15:44	
trans-1,2-Dichloroethene	**9.4 DJ**	20	6.7	20	10/28/16 15:44	
1,1-Dichloroethane	**16 DJ**	20	4.0	20	10/28/16 15:44	
cis-1,2-Dichloroethene	**1100 D**	20	6.0	20	10/28/16 15:44	
2-Butanone (MEK)	100 U	100	17	20	10/28/16 15:44	
Chloroform	**5.2 DJ**	20	5.0	20	10/28/16 15:44	
1,1,1-Trichloroethane	**46 D**	20	7.2	20	10/28/16 15:44	
Carbon Tetrachloride	20 U	20	9.0	20	10/28/16 15:44	
Benzene	20 U	20	4.0	20	10/28/16 15:44	
1,2-Dichloroethane	20 U	20	7.2	20	10/28/16 15:44	
Trichloroethene	**2400 D**	20	4.4	20	10/28/16 15:44	
1,2-Dichloropropane	20 U	20	4.0	20	10/28/16 15:44	
Bromodichloromethane	20 U	20	6.4	20	10/28/16 15:44	
cis-1,3-Dichloropropene	20 U	20	4.8	20	10/28/16 15:44	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	10/28/16 15:44	
Toluene	20 U	20	4.0	20	10/28/16 15:44	
trans-1,3-Dichloropropene	20 U	20	4.0	20	10/28/16 15:44	
1,1,2-Trichloroethane	20 U	20	6.9	20	10/28/16 15:44	
Tetrachloroethene	20 U	20	6.0	20	10/28/16 15:44	
2-Hexanone	100 U	100	34	20	10/28/16 15:44	
Dibromochloromethane	20 U	20	6.2	20	10/28/16 15:44	
Chlorobenzene	20 U	20	5.8	20	10/28/16 15:44	
Ethylbenzene	20 U	20	4.0	20	10/28/16 15:44	
m,p-Xylenes	40 U	40	6.7	20	10/28/16 15:44	
o-Xylene	20 U	20	4.0	20	10/28/16 15:44	
Styrene	20 U	20	4.0	20	10/28/16 15:44	
Bromoform	20 U	20	8.4	20	10/28/16 15:44	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	10/28/16 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/28/16 15:44	
Toluene-d8	113	87 - 121	10/28/16 15:44	
Dibromofluoromethane	105	89 - 119	10/28/16 15:44	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-8(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-034	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/28/16 12:43	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/28/16 12:43	
Chloroethane	1.0 U	1.0	0.24	1	10/28/16 12:43	
Bromomethane	1.0 U	1.0	0.29	1	10/28/16 12:43	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/28/16 12:43	
Acetone	5.0 U	5.0	1.3	1	10/28/16 12:43	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/28/16 12:43	
Methylene Chloride	1.0 U	1.0	0.60	1	10/28/16 12:43	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/28/16 12:43	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/16 12:43	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/28/16 12:43	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/28/16 12:43	
Chloroform	1.0 U	1.0	0.25	1	10/28/16 12:43	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/28/16 12:43	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/28/16 12:43	
Benzene	1.0 U	1.0	0.20	1	10/28/16 12:43	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/28/16 12:43	
Trichloroethene	1.0 U	1.0	0.22	1	10/28/16 12:43	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/16 12:43	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/28/16 12:43	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/28/16 12:43	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/28/16 12:43	
Toluene	**0.32 J**	1.0	0.20	1	10/28/16 12:43	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/16 12:43	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/28/16 12:43	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/28/16 12:43	
2-Hexanone	5.0 U	5.0	1.7	1	10/28/16 12:43	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/28/16 12:43	
Chlorobenzene	1.0 U	1.0	0.29	1	10/28/16 12:43	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/16 12:43	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/28/16 12:43	
o-Xylene	1.0 U	1.0	0.20	1	10/28/16 12:43	
Styrene	1.0 U	1.0	0.20	1	10/28/16 12:43	
Bromoform	1.0 U	1.0	0.42	1	10/28/16 12:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/28/16 12:43	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 13:30
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	BAT-B-8(0)-161020	**Units:**	ug/L
Lab Code:	R1611185-034	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/28/16 12:43	
Toluene-d8	108	87 - 121	10/28/16 12:43	
Dibromofluoromethane	108	89 - 119	10/28/16 12:43	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 1405
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/28/16 13:13
Sample Name:	BAT-87-17(1)-161020	**Units:**	µg/L
Lab Code:	R1611185-035	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	521126
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	**150**		1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	**0.91**	J	1.0	0.57	
67-64-1	Acetone	**1.4**	J	5.0	1.3	
75-15-0	Carbon Disulfide	**1.5**		1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	**2.5**		1.0	0.33	
75-34-3	1,1-Dichloroethane	**21**		1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	**130**		1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	**89**		1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	**18**		1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/20/16 1405
Sample Matrix:	Water	**Date Received:**	10/20/16
		Date Analyzed:	10/28/16 13:13
Sample Name:	BAT-87-17(1)-161020	**Units:**	µg/L
Lab Code:	R1611185-035	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	521126
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/28/16 13:13	
Toluene-d8	108	87-121	10/28/16 13:13	
Dibromofluoromethane	109	89-119	10/28/16 13:13	

Analytical Report

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1611185-036	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	10/27/16 13:20	
Vinyl Chloride	1.0 U	1.0	0.32	1	10/27/16 13:20	
Chloroethane	1.0 U	1.0	0.24	1	10/27/16 13:20	
Bromomethane	1.0 U	1.0	0.29	1	10/27/16 13:20	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	10/27/16 13:20	
Acetone	5.0 U	5.0	1.3	1	10/27/16 13:20	
Carbon Disulfide	1.0 U	1.0	0.22	1	10/27/16 13:20	
Methylene Chloride	1.0 U	1.0	0.60	1	10/27/16 13:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	10/27/16 13:20	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/27/16 13:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	10/27/16 13:20	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	10/27/16 13:20	
Chloroform	1.0 U	1.0	0.25	1	10/27/16 13:20	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:20	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	10/27/16 13:20	
Benzene	1.0 U	1.0	0.20	1	10/27/16 13:20	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	10/27/16 13:20	
Trichloroethene	1.0 U	1.0	0.22	1	10/27/16 13:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/27/16 13:20	
Bromodichloromethane	1.0 U	1.0	0.32	1	10/27/16 13:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	10/27/16 13:20	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	10/27/16 13:20	
Toluene	1.0 U	1.0	0.20	1	10/27/16 13:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/27/16 13:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	10/27/16 13:20	
Tetrachloroethene	1.0 U	1.0	0.30	1	10/27/16 13:20	
2-Hexanone	5.0 U	5.0	1.7	1	10/27/16 13:20	
Dibromochloromethane	1.0 U	1.0	0.31	1	10/27/16 13:20	
Chlorobenzene	1.0 U	1.0	0.29	1	10/27/16 13:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/27/16 13:20	
m,p-Xylenes	2.0 U	2.0	0.33	1	10/27/16 13:20	
o-Xylene	1.0 U	1.0	0.20	1	10/27/16 13:20	
Styrene	1.0 U	1.0	0.20	1	10/27/16 13:20	
Bromoform	1.0 U	1.0	0.42	1	10/27/16 13:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	10/27/16 13:20	

Client:	CB&I	**Service Request:**	R1611185
Project:	Textron Wheatfield-Annual Wells/156045	**Date Collected:**	10/19/16
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1611185-036	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/27/16 13:20	
Toluene-d8	111	87 - 121	10/27/16 13:20	
Dibromofluoromethane	109	89 - 119	10/27/16 13:20	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5902.D
Acq On : 24 Oct 2016 4:23 pm
Operator : K.Ruest
Sample : R1611185-001|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 25 11:58:09 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M repeat 2.0
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	799792	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1324737	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1246736	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	655954	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	376624	53.27	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.54%			
48) surr1,1,2-dichloroetha...	6.090	65	410682	51.13	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.26%			
65) SURR3,Toluene-d8	8.529	98	1602148	55.30	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.60%			
70) SURR2,BFB	11.047	95	619855	54.84	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.68%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.427	62	1235314	195.23	ppb	100
6) Chloroethane	1.768	64	282	Below Cal	#	45
7) Freon 21	1.926	67	32310	3.86	ppb	99
8) Trichlorofluoromethane	1.975	101	12696	1.73	ppb	95
10) Freon 123a	2.231	67	50727	9.96	ppb	100
14) Freon 113	2.438	101	387240	65.67	ppb	99
26) trans-1,2-Dichloroethene	3.243	96	18143	2.90	ppb	97
28) 1,1-Diclethane	3.786	63	130296	12.55	ppb	95
34) cis-1,2-Dichloroethene	4.706	96	1801576	282.28	ppb	90
40) Chloroform	5.310	83	6544	0.65	ppb	88
41) 1,1,1-Trichloroethane	5.590	97	192288	20.62	ppb	95
54) Trichloroethene	7.078	130	53681	7.67	ppb	97

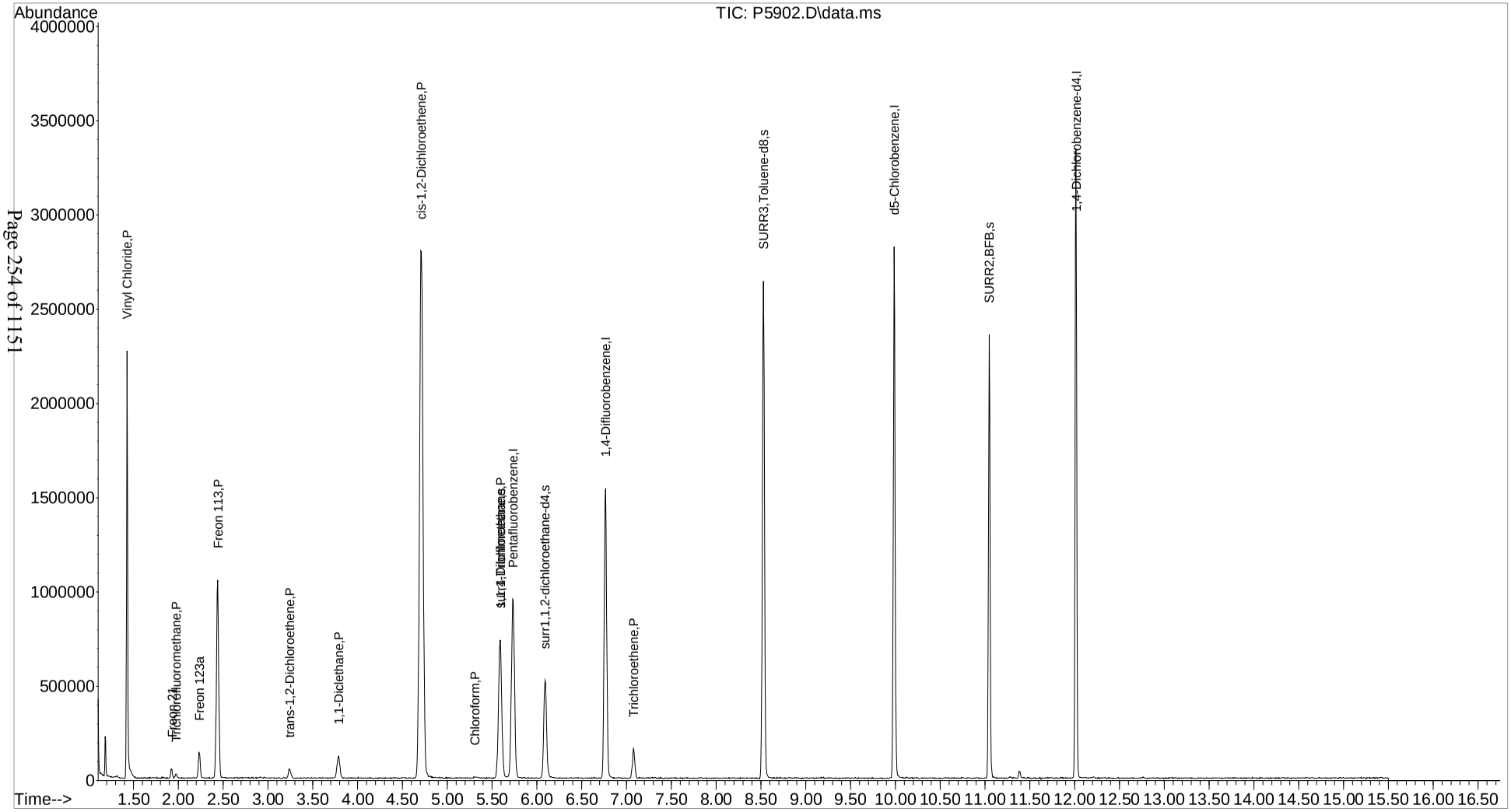
E-Over Calibration

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

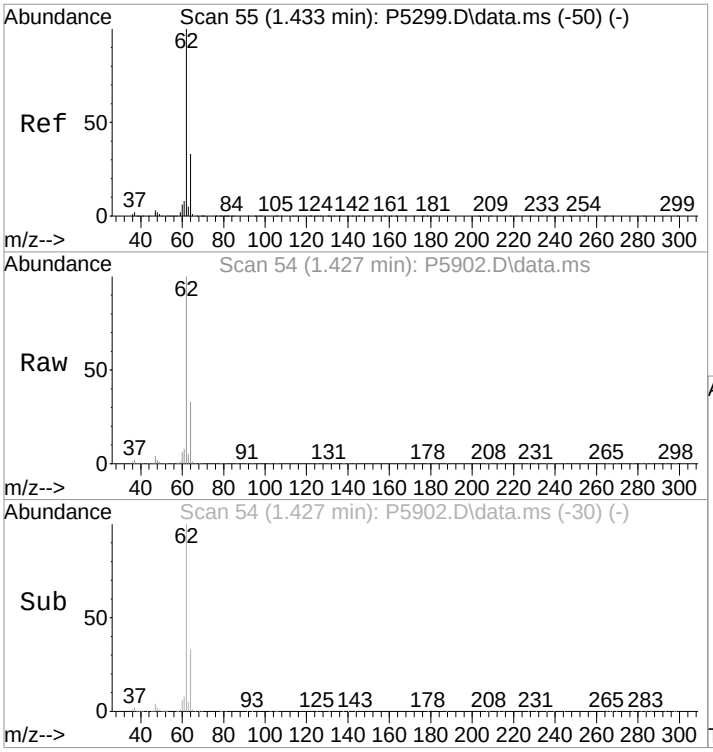
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5902.D
Acq On : 24 Oct 2016 4:23 pm
Operator : K.Ruest
Sample : R1611185-001|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 25 11:58:09 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



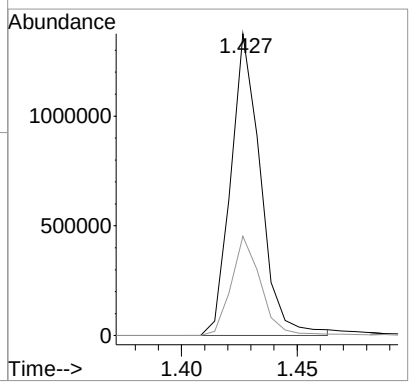
1st 10/25/16
2nd 10/25/16

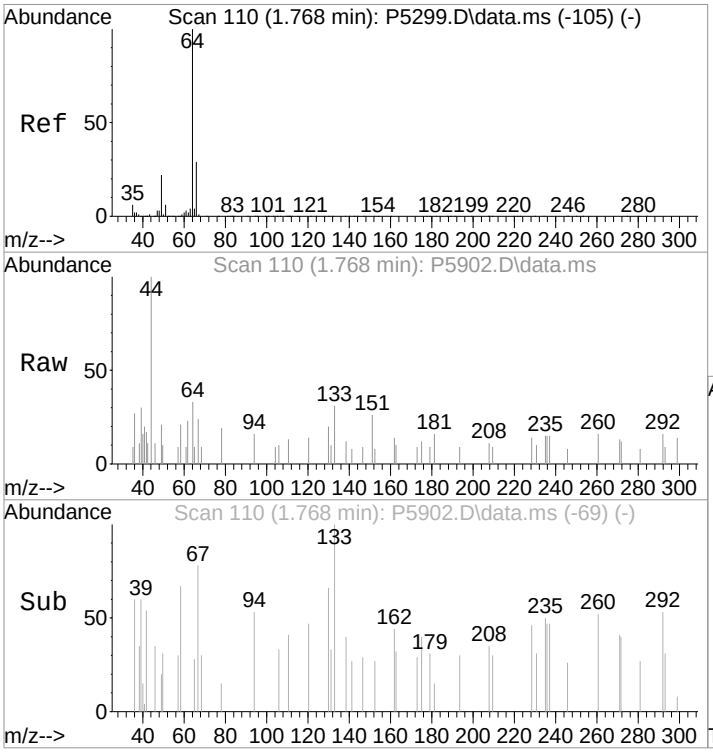


#4
Vinyl Chloride
Concen: 195.23 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 62 Resp: 1235314

Ion	Ratio	Lower	Upper
62	100		
64	32.9	13.1	53.1

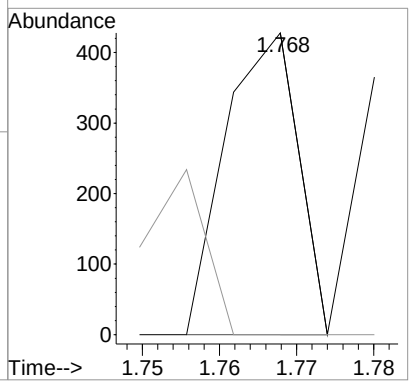


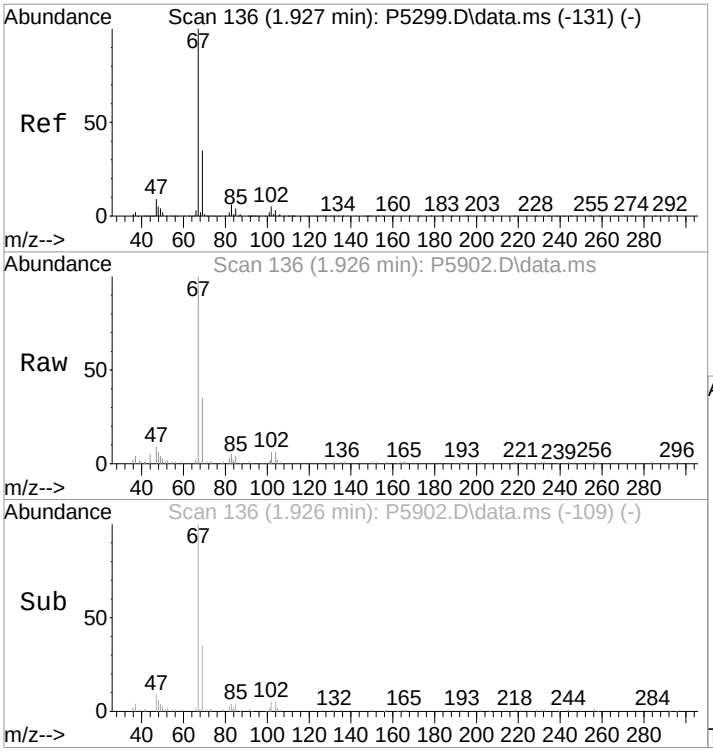


#6
Chloroethane
Concen: Below Cal
RT: 1.768 min Scan# 110
Delta R.T. 0.006 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 64 Resp: 282

Ion	Ratio	Lower	Upper
64	100		
66	0.0	9.2	49.2#

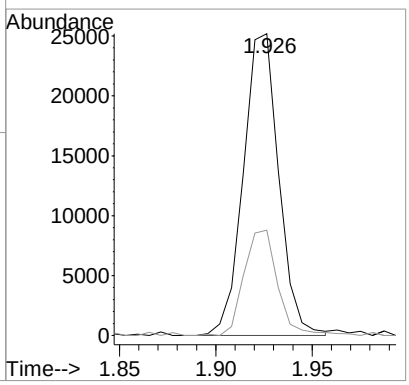


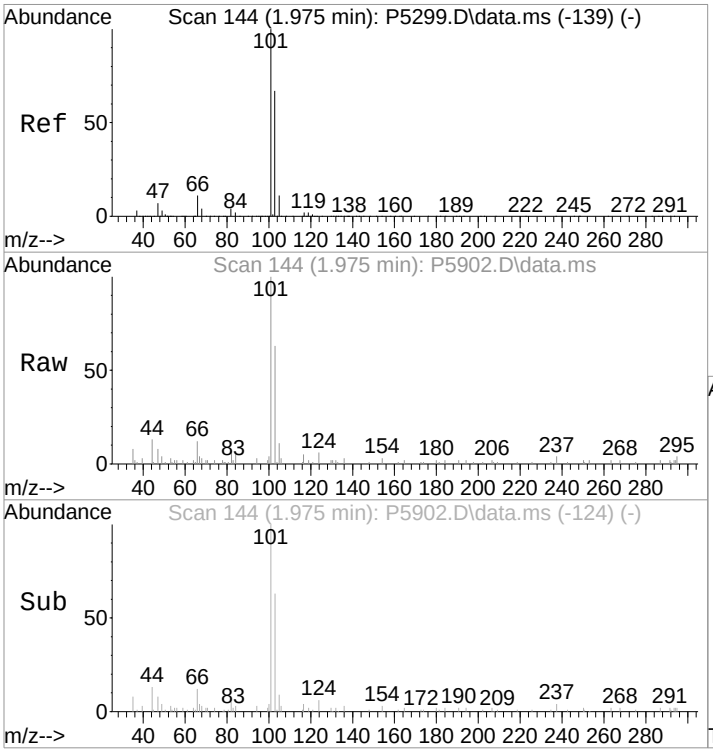


#7
Freon 21
Concen: 3.86 ppb
RT: 1.926 min Scan# 136
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 67 Resp: 32310

Ion	Ratio	Lower	Upper
67	100		
69	34.9	14.4	54.4

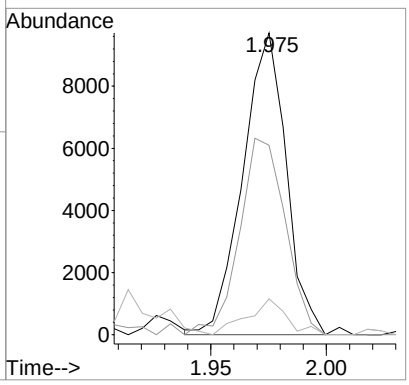


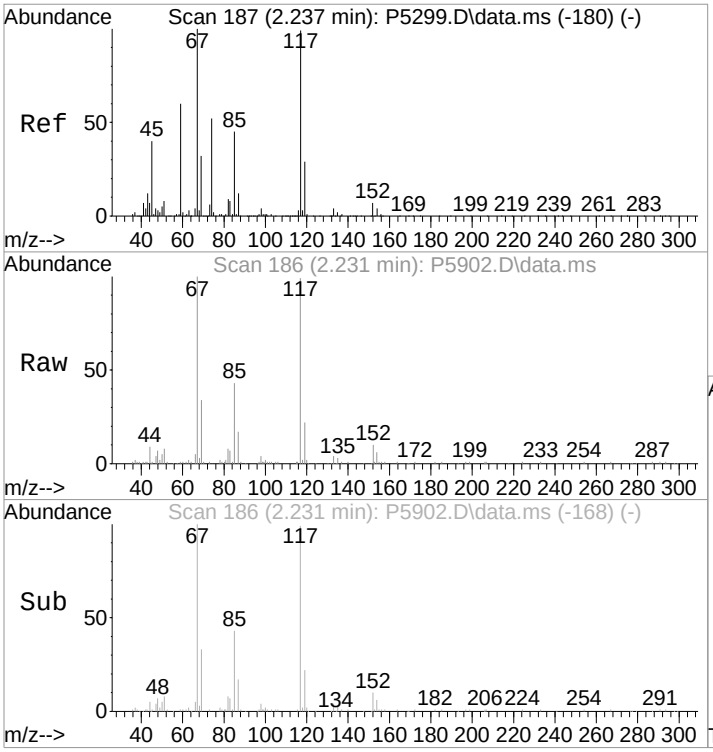


#8
Trichlorofluoromethane
Concen: 1.73 ppb
RT: 1.975 min Scan# 144
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion:101 Resp: 12696

Ion	Ratio	Lower	Upper
101	100		
103	62.8	47.3	87.3
66	11.9	0.0	31.5

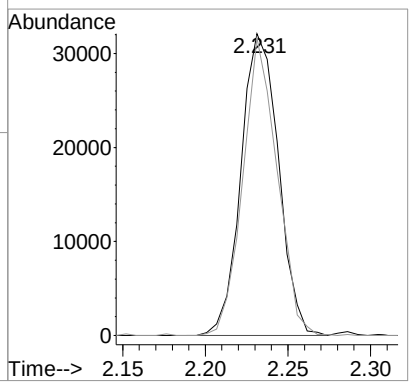


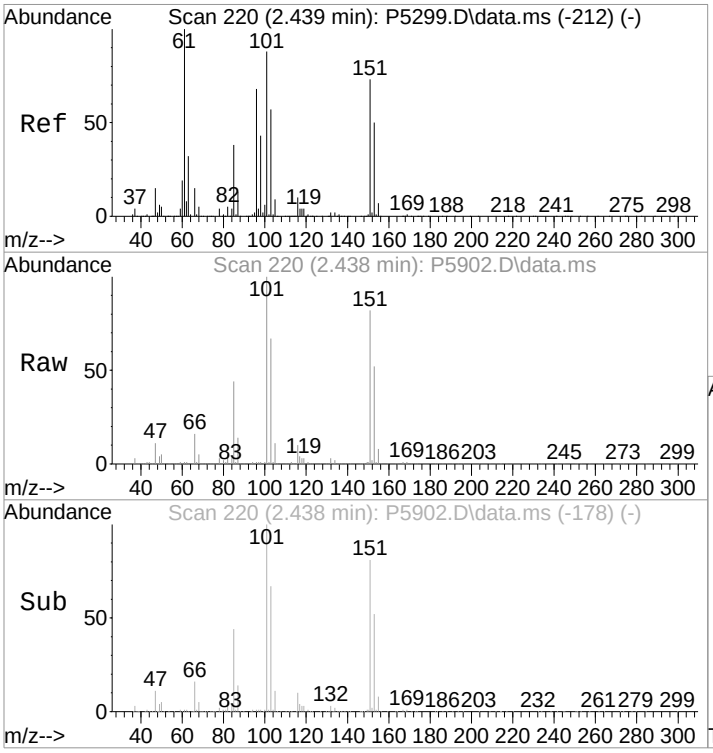


#10
Freon 123a
Concen: 9.96 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 67 Resp: 50727

Ion	Ratio	Lower	Upper
67	100		
117	98.6	78.8	118.8

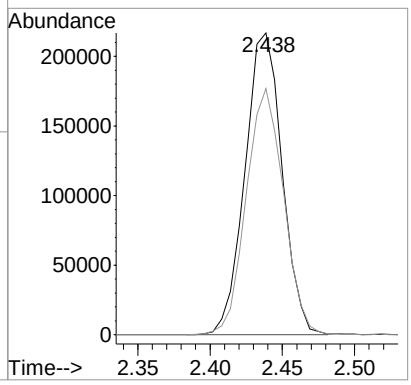


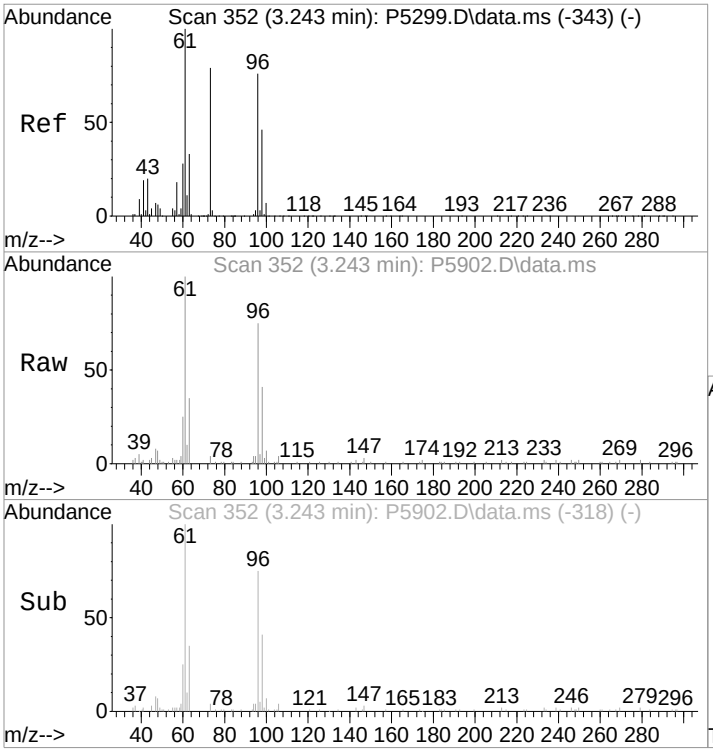


#14
Freon 113
Concen: 65.67 ppb
RT: 2.438 min Scan# 220
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion:101 Resp: 387240

Ion	Ratio	Lower	Upper
101	100		
151	81.5	62.6	102.6

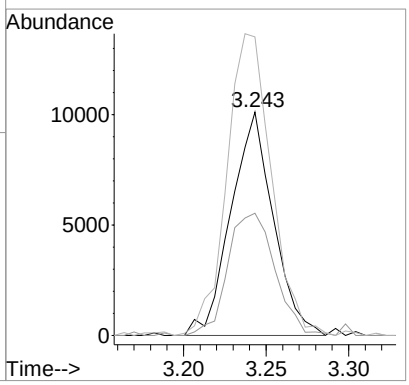


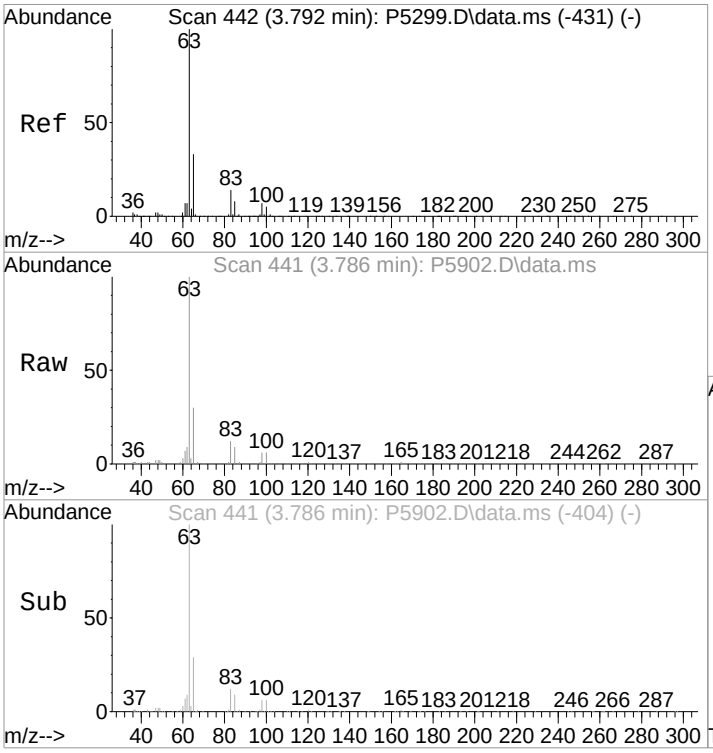


#26
trans-1,2-Dichloroethene
Concen: 2.90 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 96 Resp: 18143

Ion	Ratio	Lower	Upper
96	100		
98	54.7	41.0	81.0
61	133.6	112.4	152.4

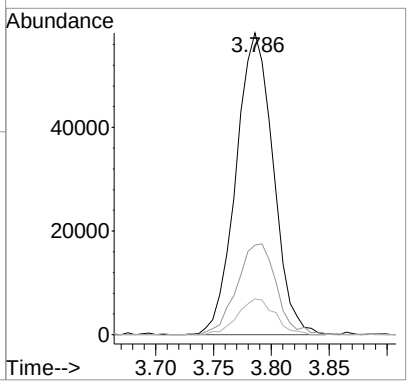


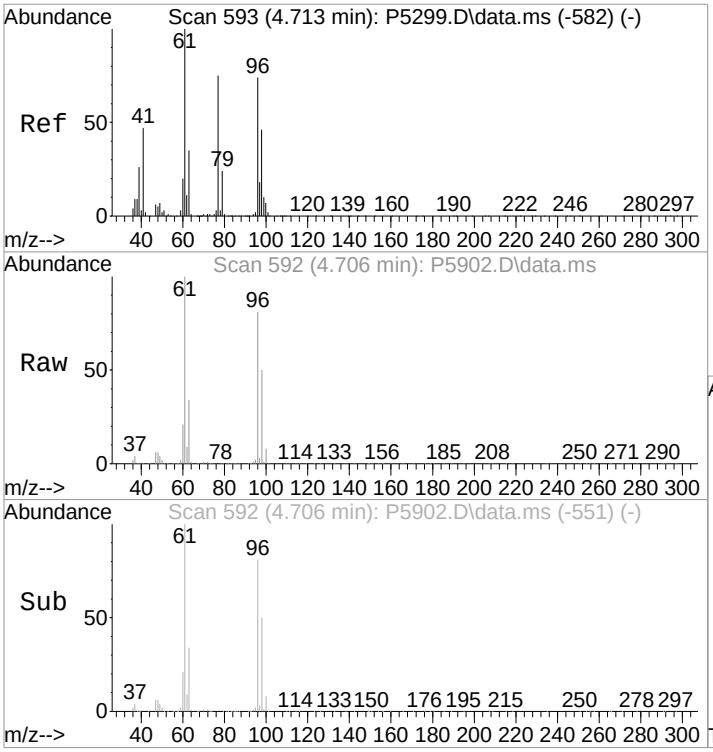


#28
1,1-Diclethane
Concen: 12.55 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 63 Resp: 130296

Ion	Ratio	Lower	Upper
63	100		
65	29.7	12.9	52.9
83	11.9	0.0	33.5

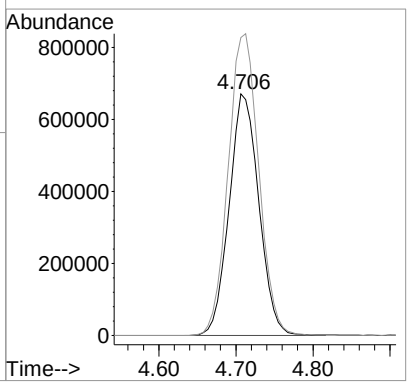


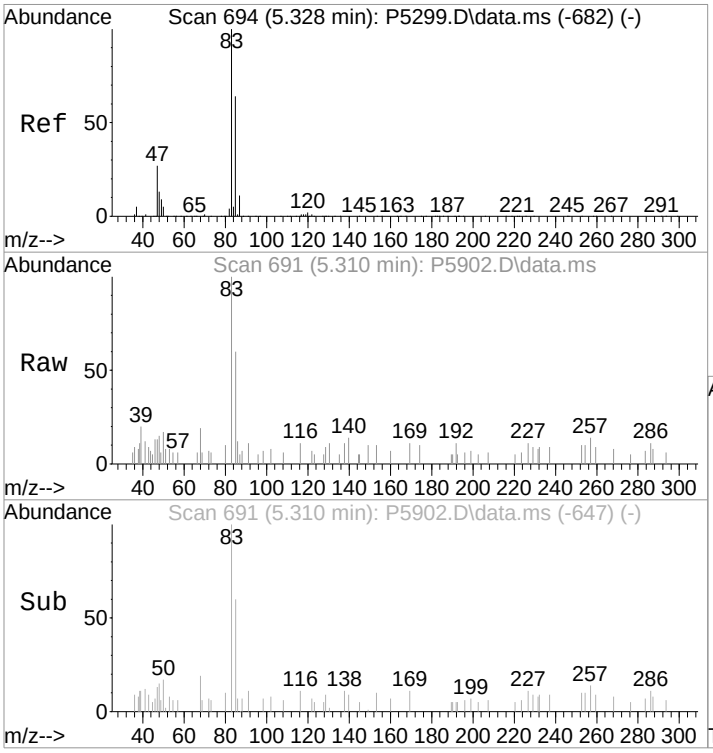


#34
cis-1,2-Dichloroethene
Concen: 282.28 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 96 Resp: 1801576

Ion	Ratio	Lower	Upper
96	100		
61	123.3	114.6	154.6

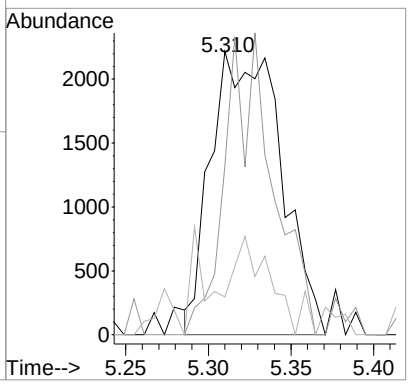


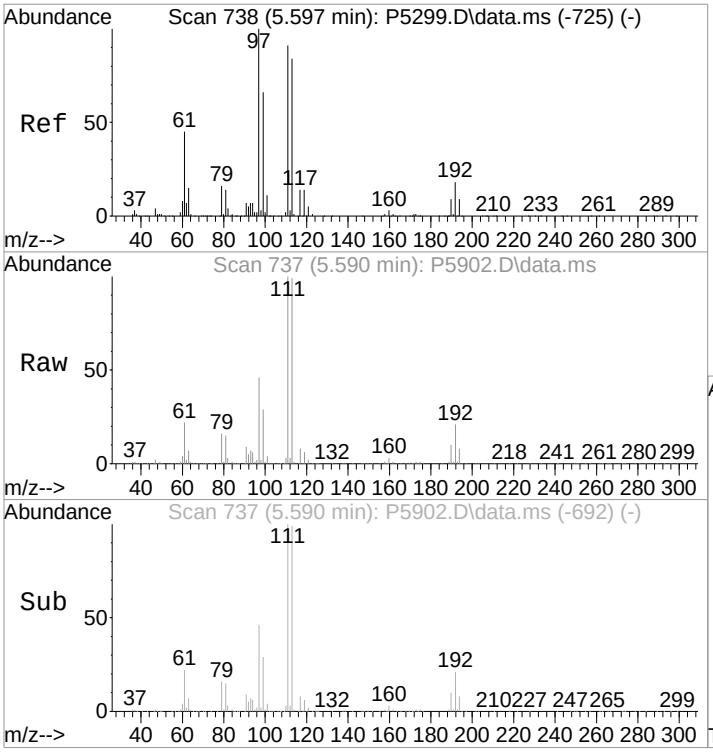


#40
Chloroform
Concen: 0.65 ppb
RT: 5.310 min Scan# 691
Delta R.T. -0.018 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 83 Resp: 6544

Ion	Ratio	Lower	Upper
83	100		
85	59.6	44.1	84.1
47	13.3	7.4	47.4

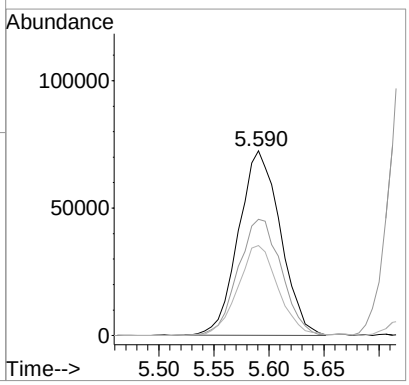


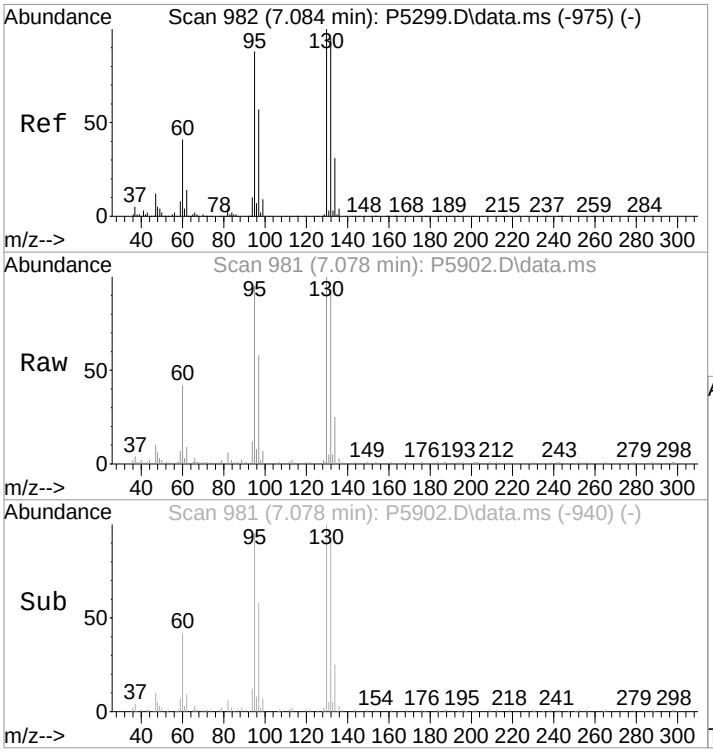


#41
1,1,1-Trichloroethane
Concen: 20.62 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion: 97 Resp: 192288

Ion	Ratio	Lower	Upper
97	100		
99	62.9	46.2	86.2
61	48.7	25.3	65.3

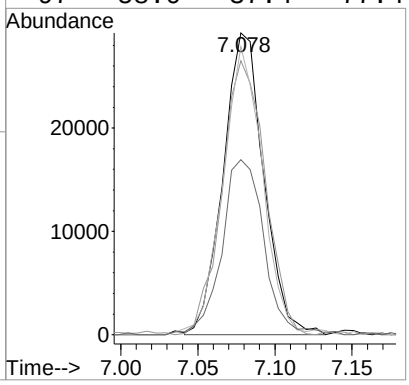




#54
Trichloroethene
Concen: 7.67 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5902.D
Acq: 24 Oct 2016 4:23 pm

Tgt Ion:130 Resp: 53681

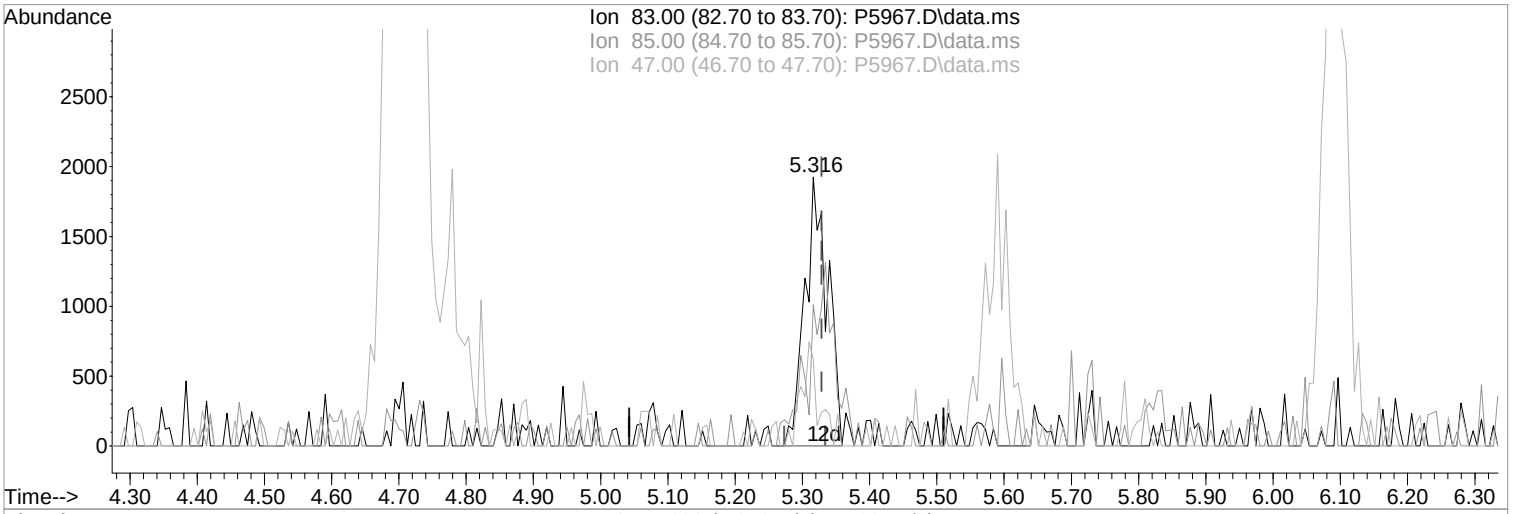
Ion	Ratio	Lower	Upper
130	100		
132	95.4	75.2	115.2
95	95.3	68.1	108.1
97	58.0	37.4	77.4

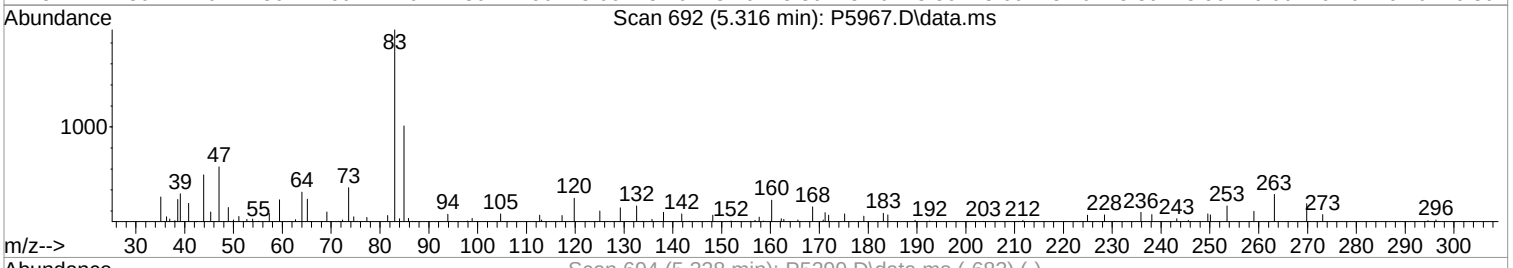


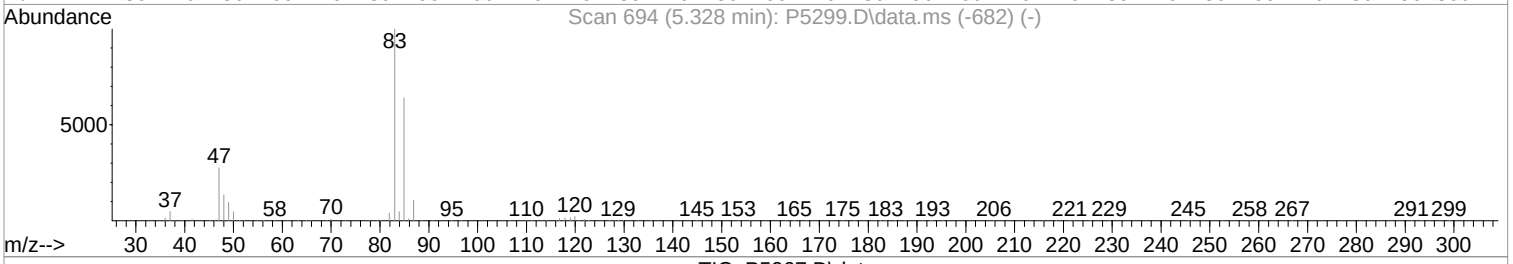
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5967.D
Acq On : 26 Oct 2016 5:24 pm
Operator : K.Ruest
Sample : R1611185-001|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 27 08:59:31 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5967.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.45 ppb m

response 4539

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	52.49
47.00	27.40	32.24
0.00	0.00	0.00

Manual Integration:

After

Split Peak

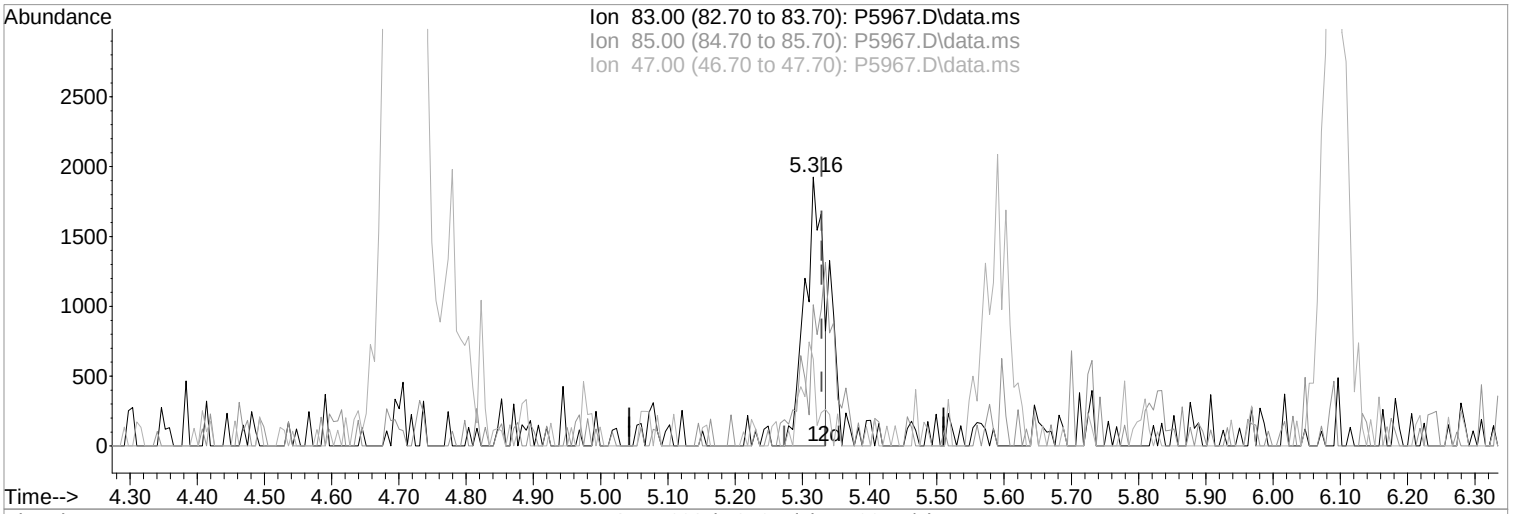
10/27/16

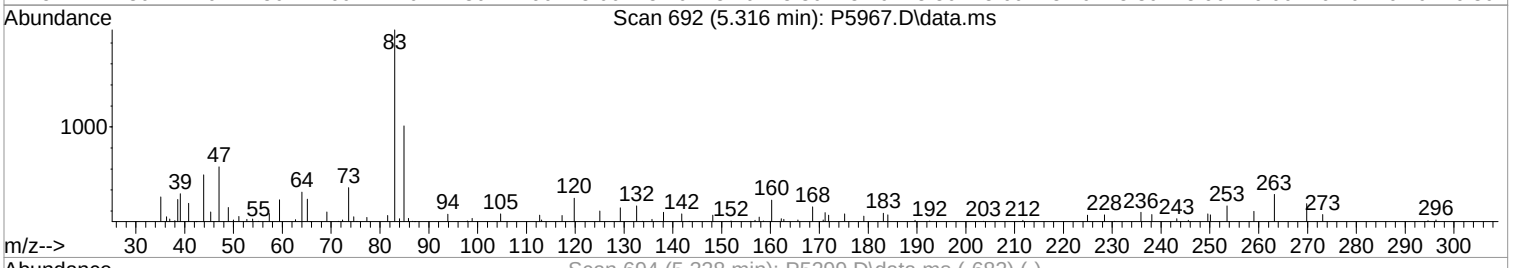
1st 10/27/16
2nd 10/27/16

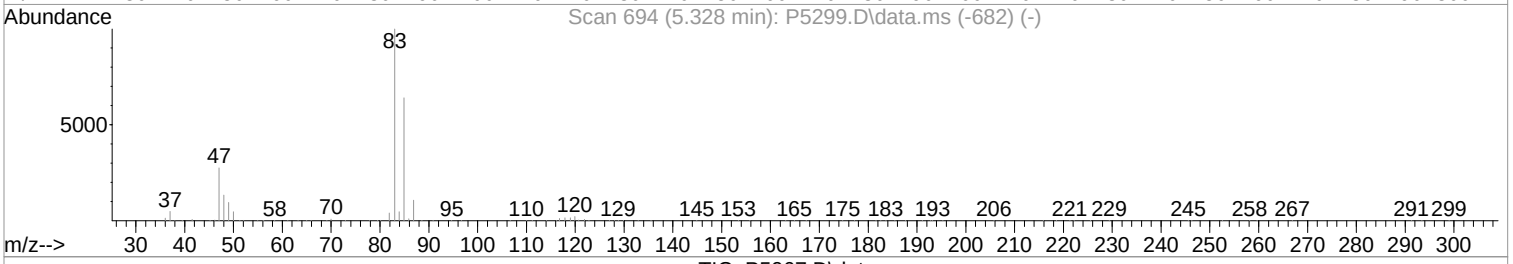
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5967.D
Acq On : 26 Oct 2016 5:24 pm
Operator : K.Ruest
Sample : R1611185-001|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 27 08:59:31 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5967.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.35 ppb

response 3542

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	52.49
47.00	27.40	32.24
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5967.D
Acq On : 26 Oct 2016 5:24 pm
Operator : K.Ruest
Sample : R1611185-001|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

dil

Quant Time: Oct 27 10:52:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

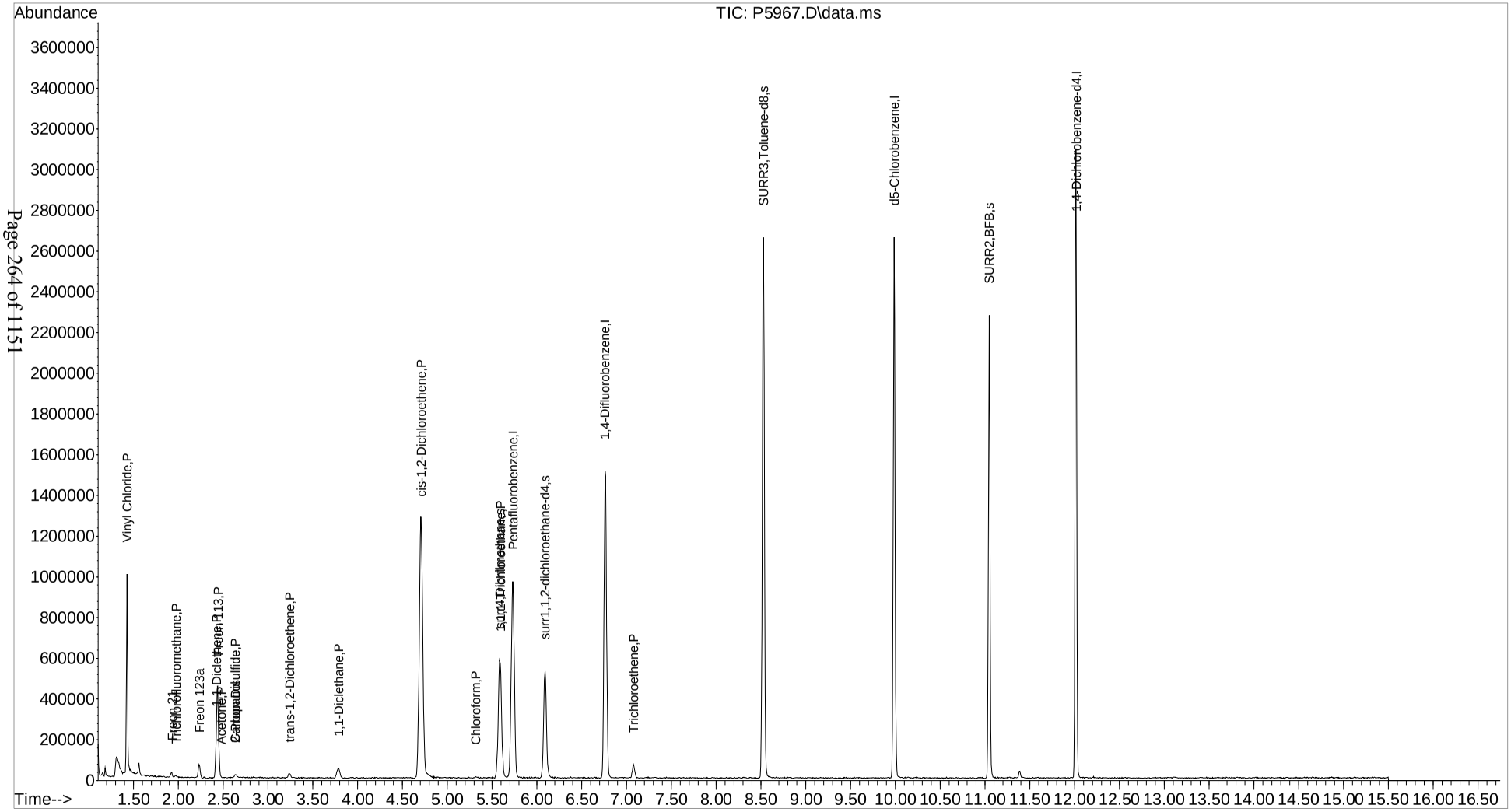
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	807066	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1293159	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1187173	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	611940	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	376039	54.48	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.96%				
48) surr1,1,2-dichloroetha...	6.090	65	413278	52.71	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.42%				
65) SURR3,Toluene-d8	8.529	98	1588590	56.17	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.34%				
70) SURR2,BFB	11.047	95	577977	52.38	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.76%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	524054	82.07	ppb		95
7) Freon 21	1.926	67	13853	1.64	ppb		79
8) Trichlorofluoromethane	1.975	101	5652	0.76	ppb		92
10) Freon 123a	2.231	67	22431	4.36	ppb	#	69
13) 1,1-Diclethene	2.420	96	3203	0.57	ppb	#	84
14) Freon 113	2.439	101	162282	27.27	ppb		94
15) Acetone	2.475	43	2374	1.80	ppb		78
16) 2-Propanol	2.634	45	16426	58.52	ppb		97
18) Carbon Disulfide	2.634	76	5810	0.33	ppb		77
26) trans-1,2-Dichloroethene	3.243	96	8612	1.36	ppb	#	81
28) 1,1-Diclethane	3.786	63	52181	4.98	ppb		99
34) cis-1,2-Dichloroethene	4.712	96	805407	125.06	ppb		92
40) Chloroform	5.316	83	4539m	0.45	ppb		
41) 1,1,1-Trichloroethane	5.590	97	82810	8.80	ppb		85
54) Trichloroethene	7.078	130	24252	3.55	ppb		91

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

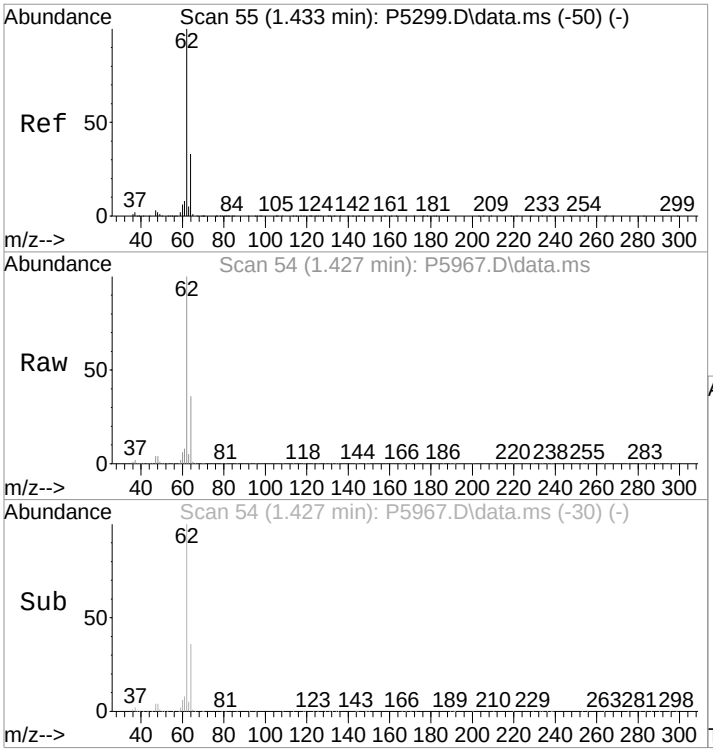
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5967.D
Acq On : 26 Oct 2016 5:24 pm
Operator : K.Ruest
Sample : R1611185-001|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 27 10:52:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



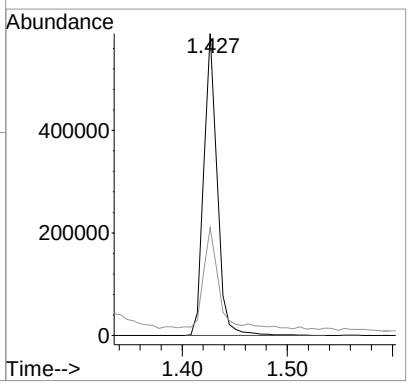
1st 10/27/16
2nd 10/27/16

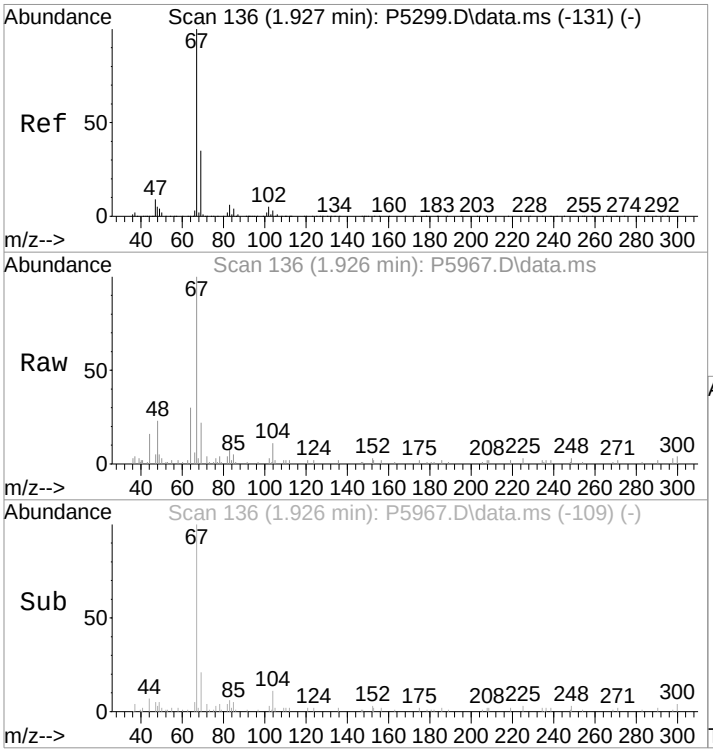


#4
Vinyl Chloride
Concen: 82.07 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 62 Resp: 524054

Ion	Ratio	Lower	Upper
62	100		
64	35.7	13.1	53.1

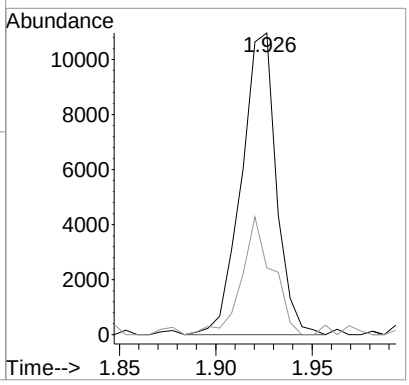


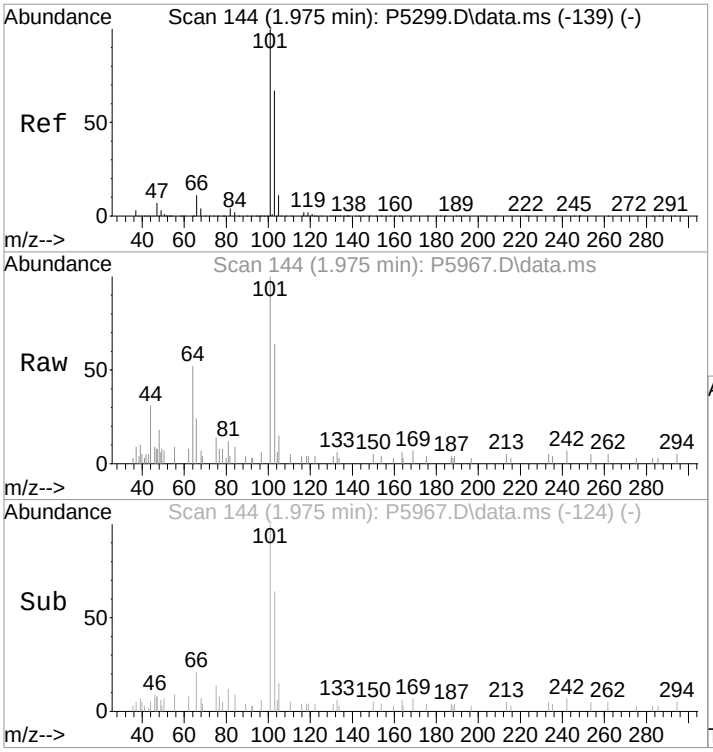


#7
Freon 21
Concen: 1.64 ppb
RT: 1.926 min Scan# 136
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 67 Resp: 13853

Ion	Ratio	Lower	Upper
67	100		
69	22.1	14.4	54.4

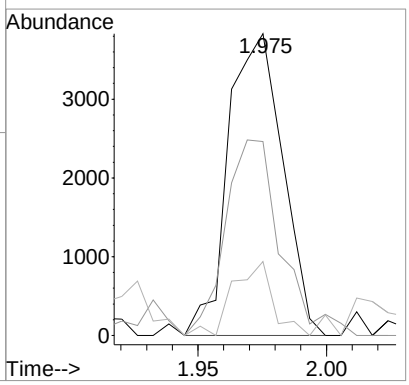


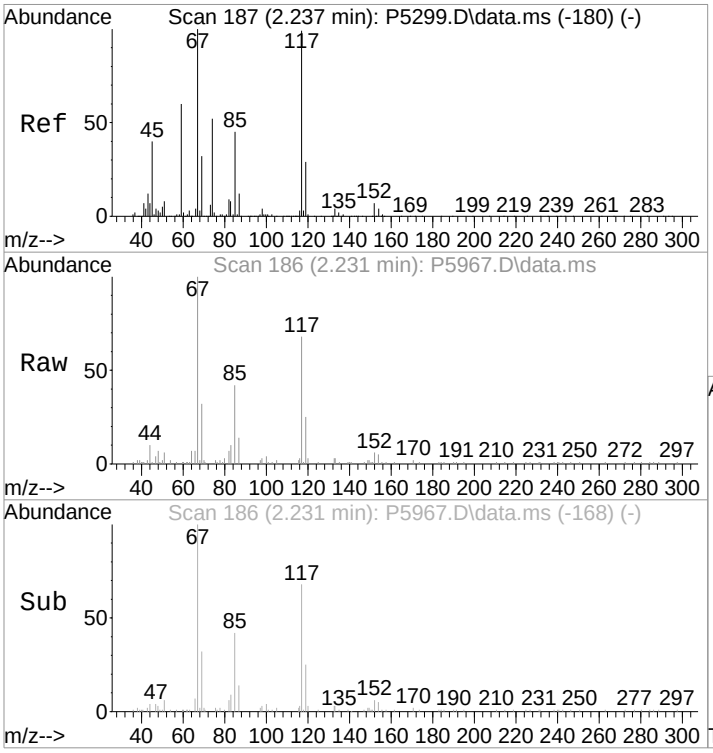


#8
Trichlorofluoromethane
Concen: 0.76 ppb
RT: 1.975 min Scan# 144
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion:101 Resp: 5652

Ion	Ratio	Lower	Upper
101	100		
103	64.3	47.3	87.3
66	24.5	0.0	31.5

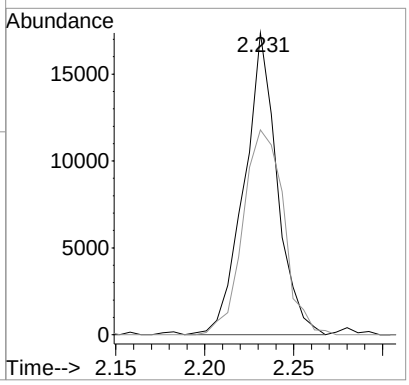


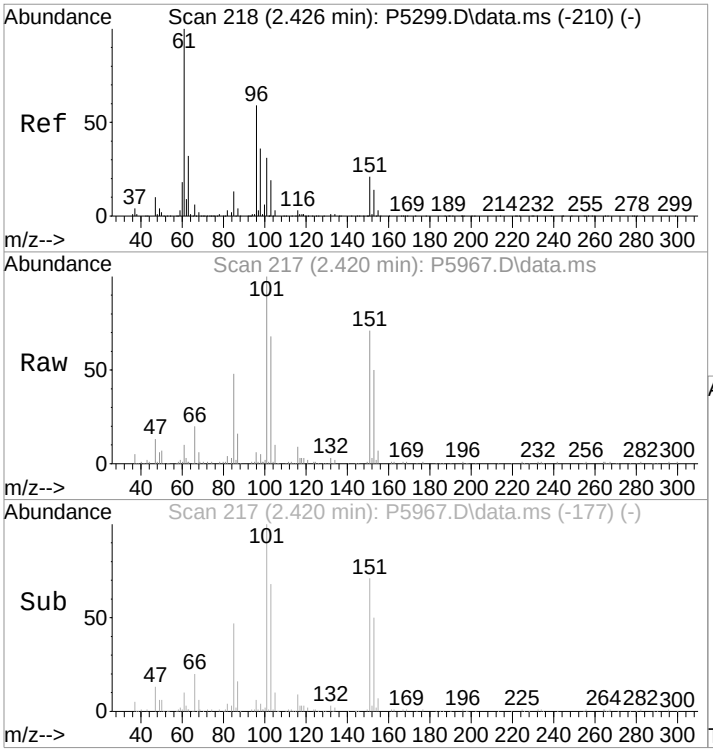


#10
Freon 123a
Concen: 4.36 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 67 Resp: 22431

Ion	Ratio	Lower	Upper
67	100		
117	67.8	78.8	118.8#

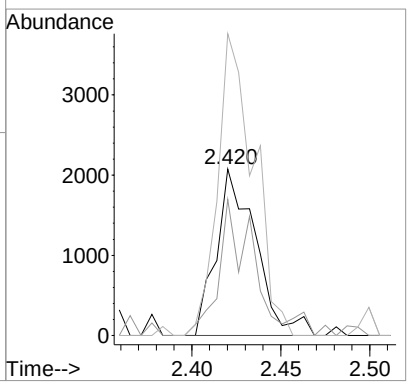


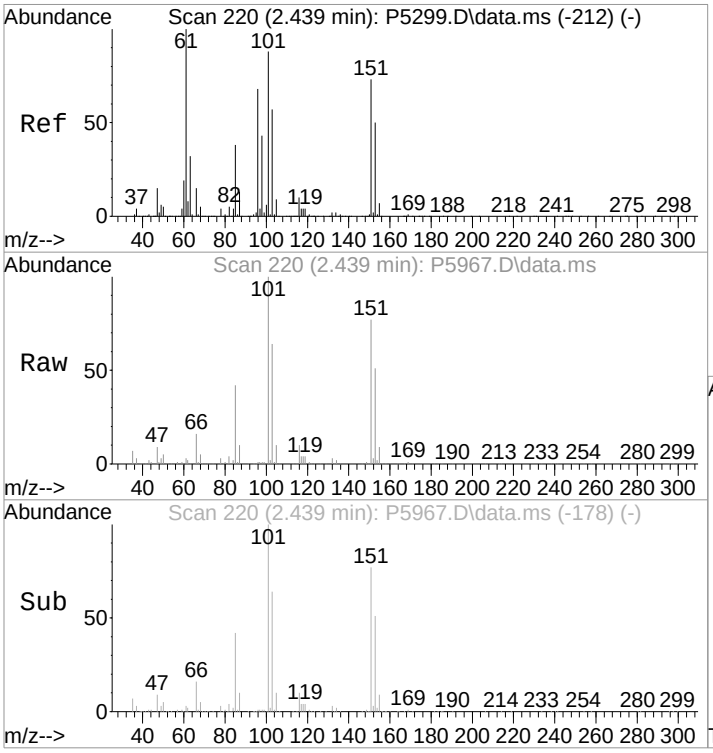


#13
1,1-Diclethene
Concen: 0.57 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 96 Resp: 3203

Ion	Ratio	Lower	Upper
96	100		
98	91.5	41.8	81.8#
61	181.3	150.1	190.1

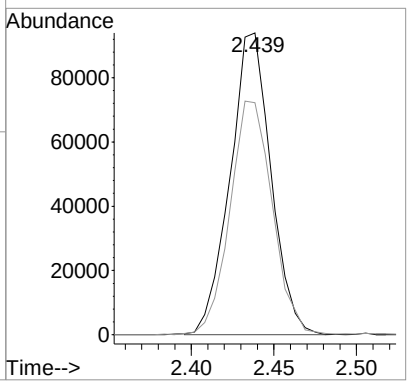


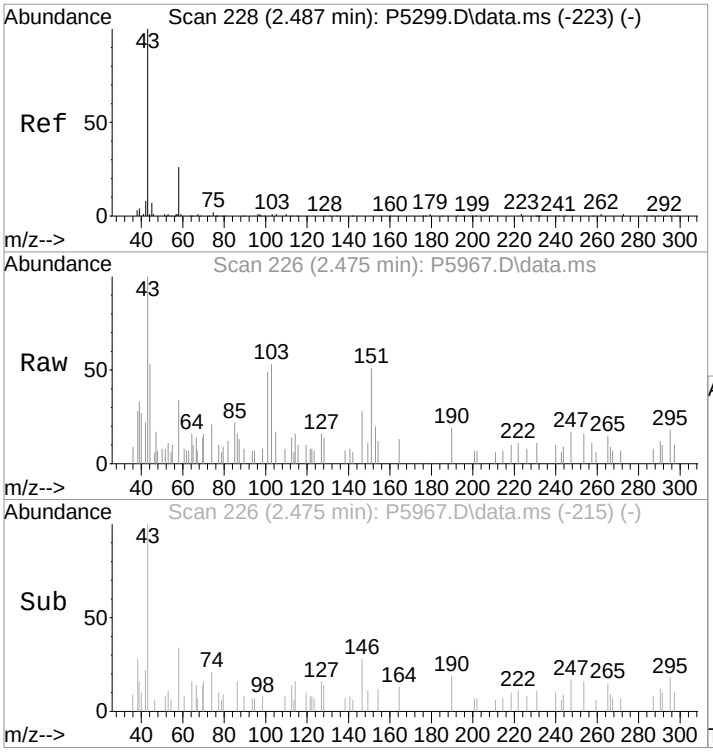


#14
Freon 113
Concen: 27.27 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion:101 Resp: 162282

Ion	Ratio	Lower	Upper
101	100		
151	76.8	62.6	102.6

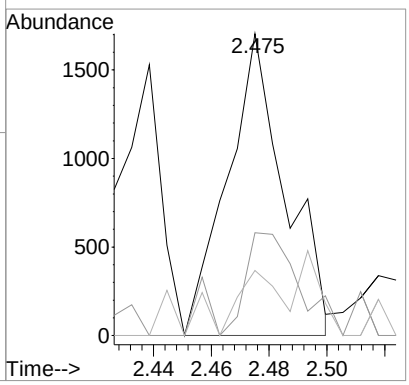


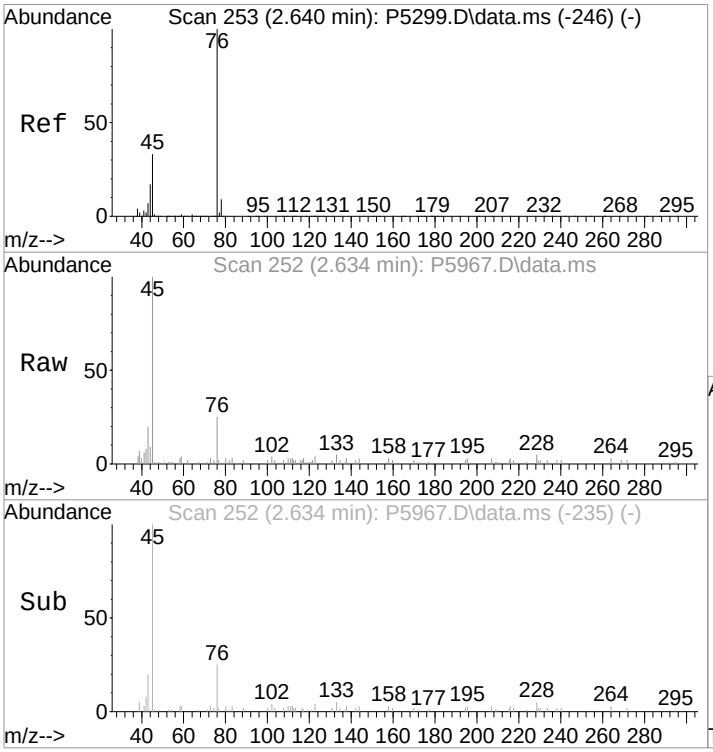


#15
Acetone
Concen: 1.80 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 43 Resp: 2374

Ion	Ratio	Lower	Upper
43	100		
58	34.0	5.3	45.3
42	21.5	0.0	28.7

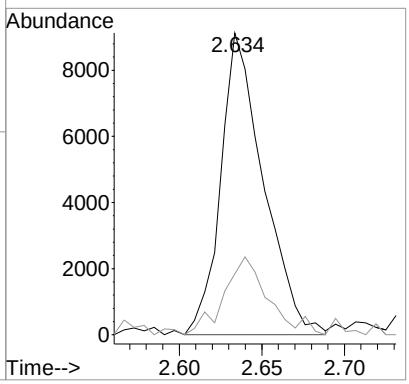


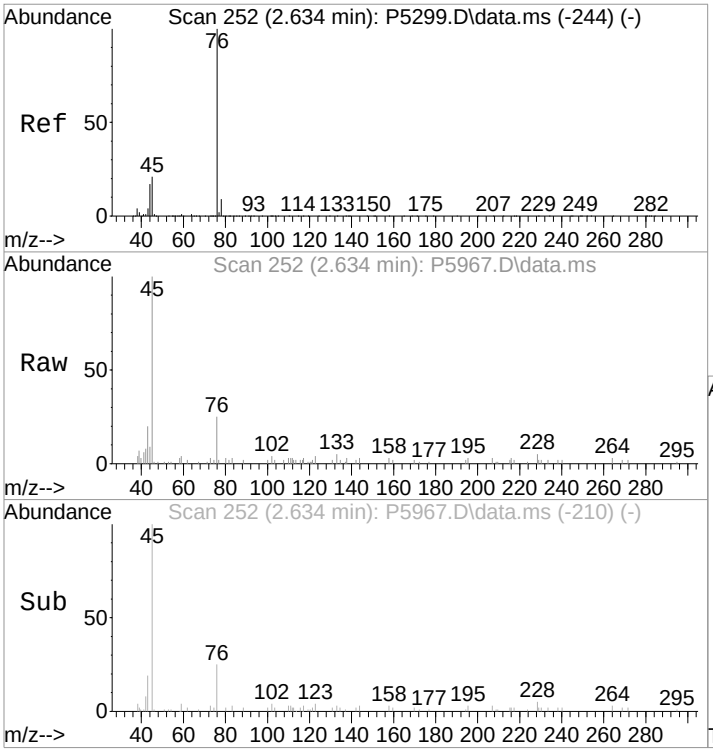


#16
2-Propanol
Concen: 58.52 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.006 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 45 Resp: 16426

Ion	Ratio	Lower	Upper
45	100		
43	20.2	1.6	41.6

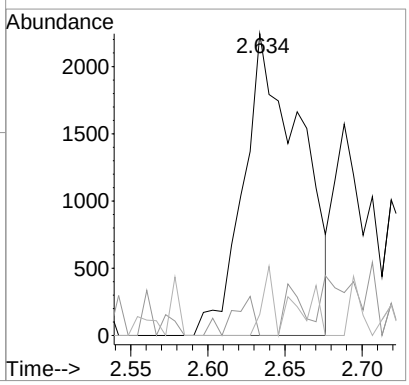


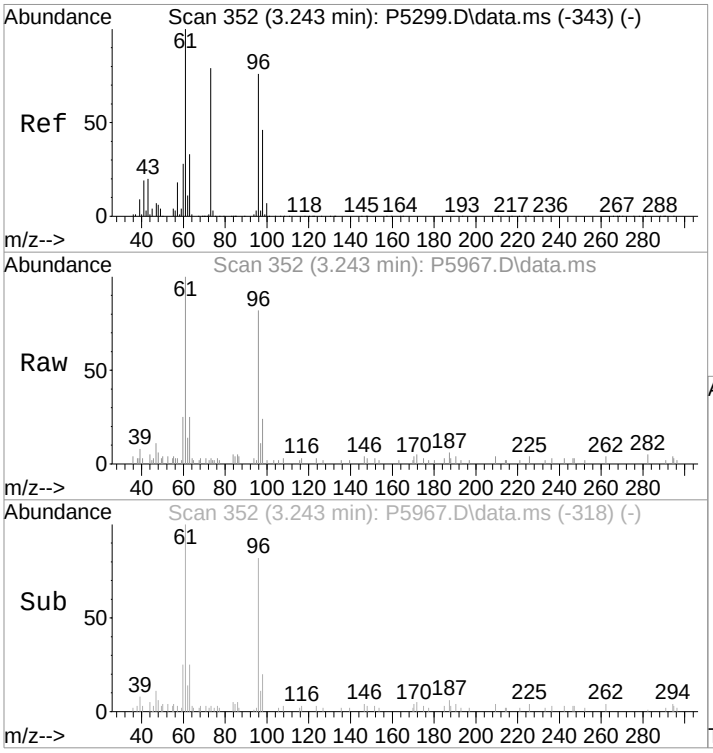


#18
Carbon Disulfide
Concen: 0.33 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 76 Resp: 5810

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	29.3
77	6.5	0.0	22.5

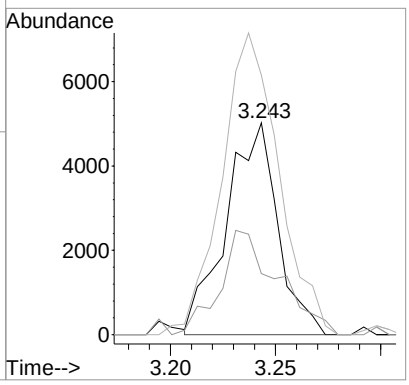


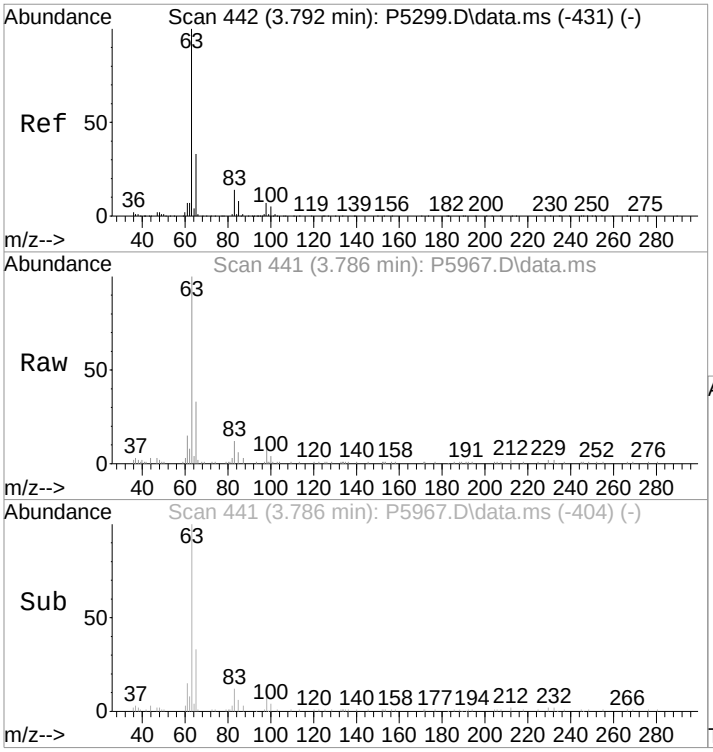


#26
trans-1,2-Dichloroethene
Concen: 1.36 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 96 Resp: 8612

Ion	Ratio	Lower	Upper
96	100		
98	28.9	41.0	81.0#
61	122.4	112.4	152.4

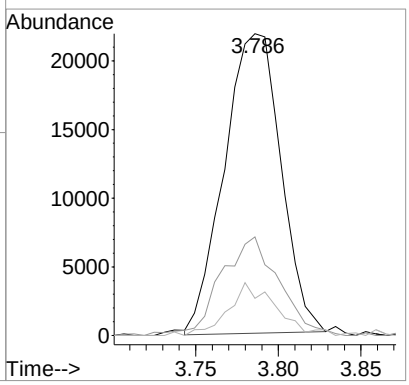


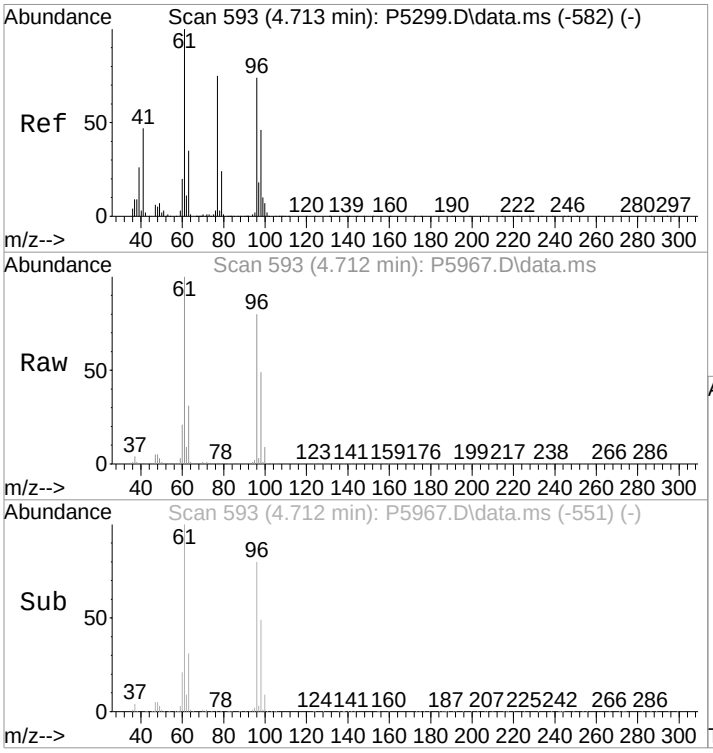


#28
1,1-Diclethane
Concen: 4.98 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 63 Resp: 52181

Ion	Ratio	Lower	Upper
63	100		
65	32.7	12.9	52.9
83	12.3	0.0	33.5

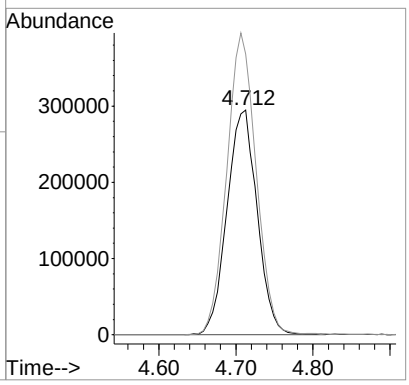


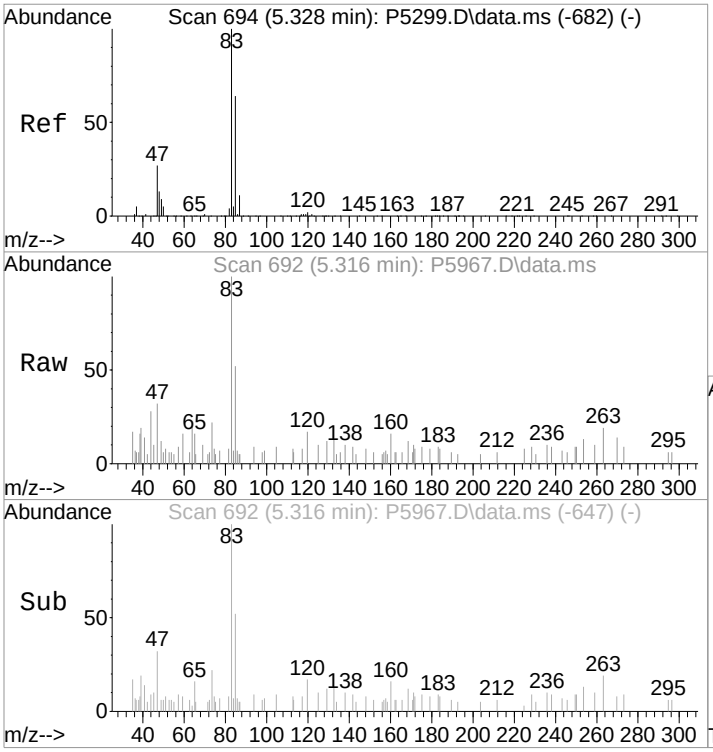


#34
cis-1,2-Dichloroethene
Concen: 125.06 ppb
RT: 4.712 min Scan# 593
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 96 Resp: 805407

Ion	Ratio	Lower	Upper
96	100		
61	124.9	114.6	154.6

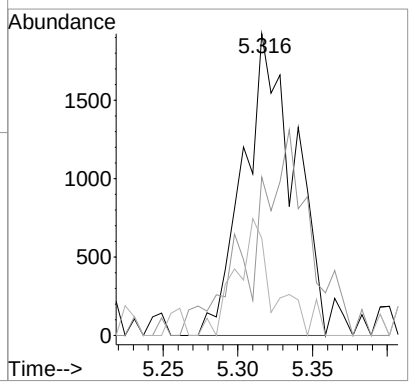


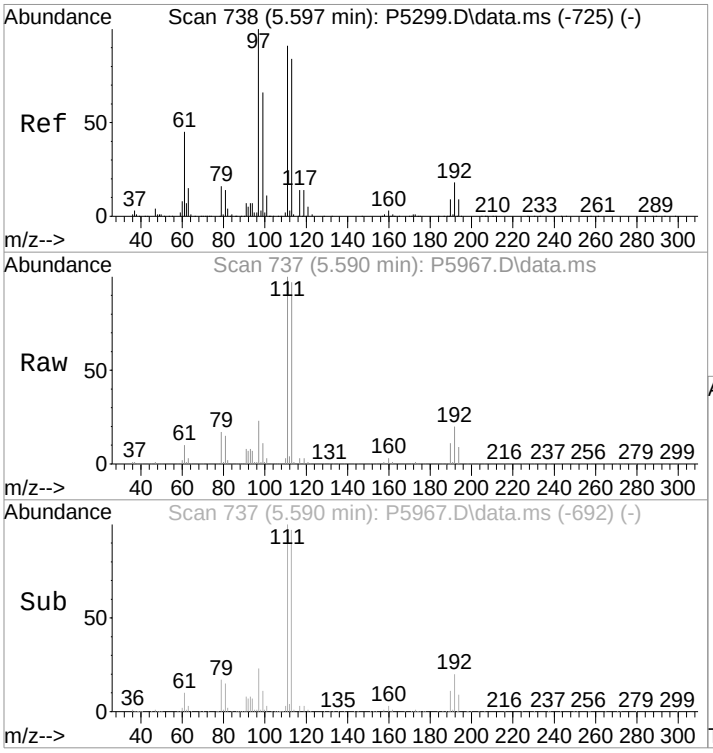


#40
Chloroform
Concen: 0.45 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 83 Resp: 4539

Ion	Ratio	Lower	Upper
83	100		
85	52.5	44.1	84.1
47	32.2	7.4	47.4

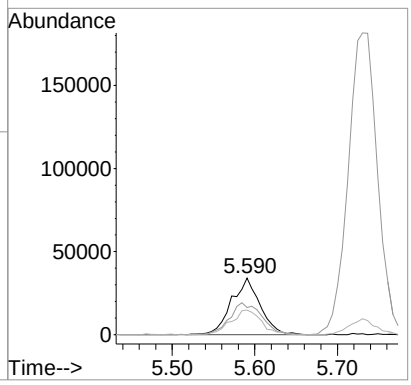


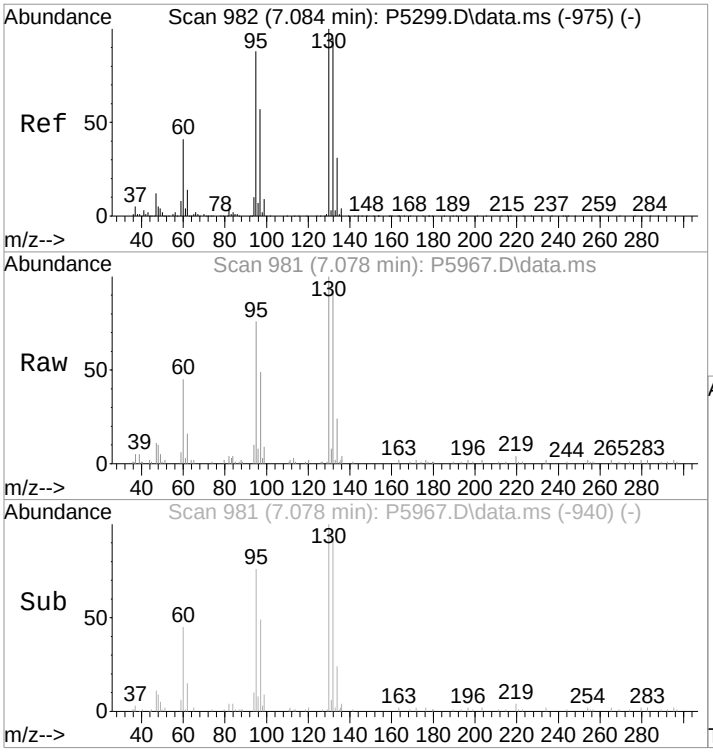


#41
1,1,1-Trichloroethane
Concen: 8.80 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion: 97 Resp: 82810

Ion	Ratio	Lower	Upper
97	100		
99	48.0	46.2	86.2
61	43.2	25.3	65.3

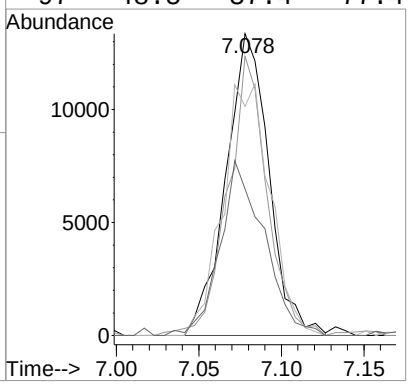




#54
Trichloroethene
Concen: 3.55 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5967.D
Acq: 26 Oct 2016 5:24 pm

Tgt Ion:130 Resp: 24252

Ion	Ratio	Lower	Upper
130	100		
132	92.4	75.2	115.2
95	75.9	68.1	108.1
97	48.5	37.4	77.4

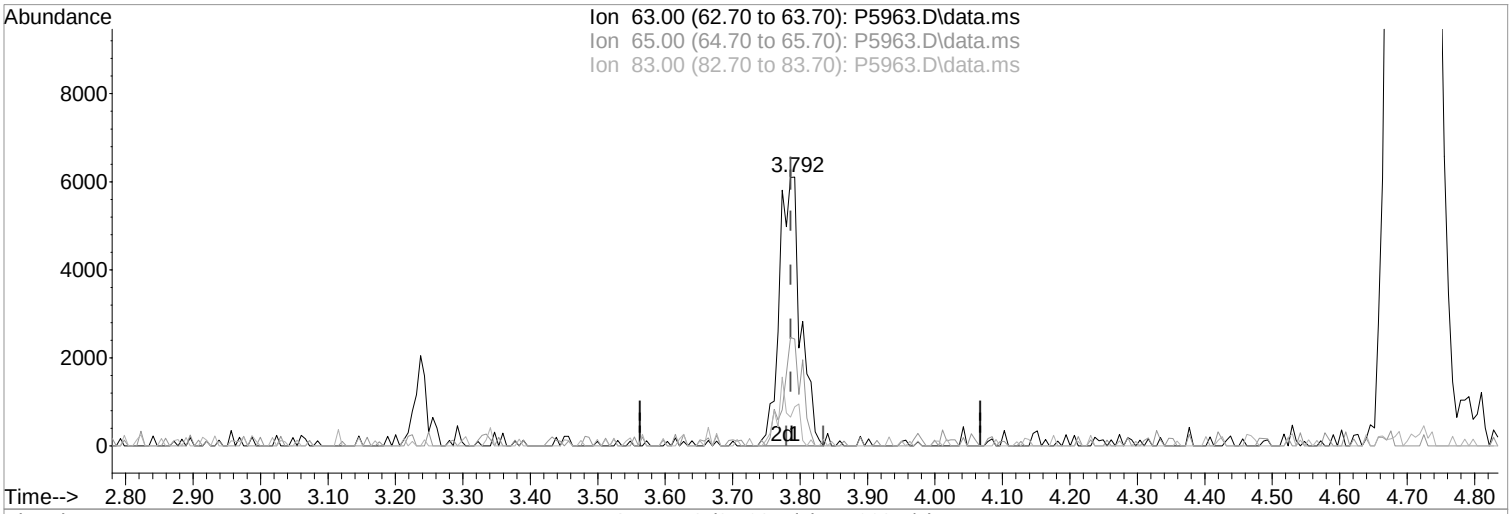


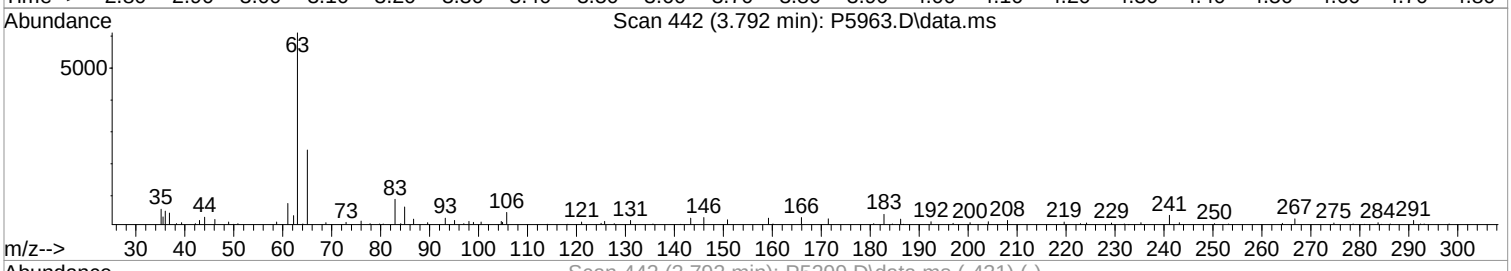
1st 10/27/16
2nd 10/27/16

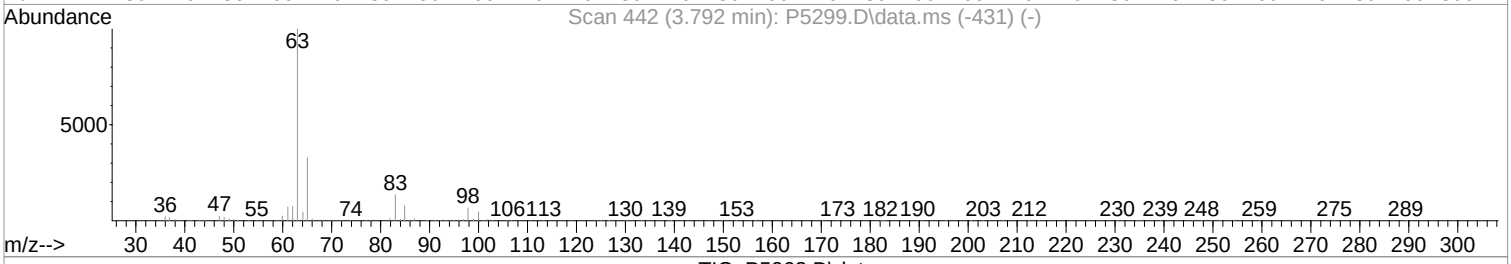
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 15:58:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5963.D\data.ms

(28) 1,1-Diclethane (P)

3.792min (+0.006) 1.25 ppb m

response 13382

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	39.83
83.00	13.50	14.57
0.00	0.00	0.00

Manual Integration:

After

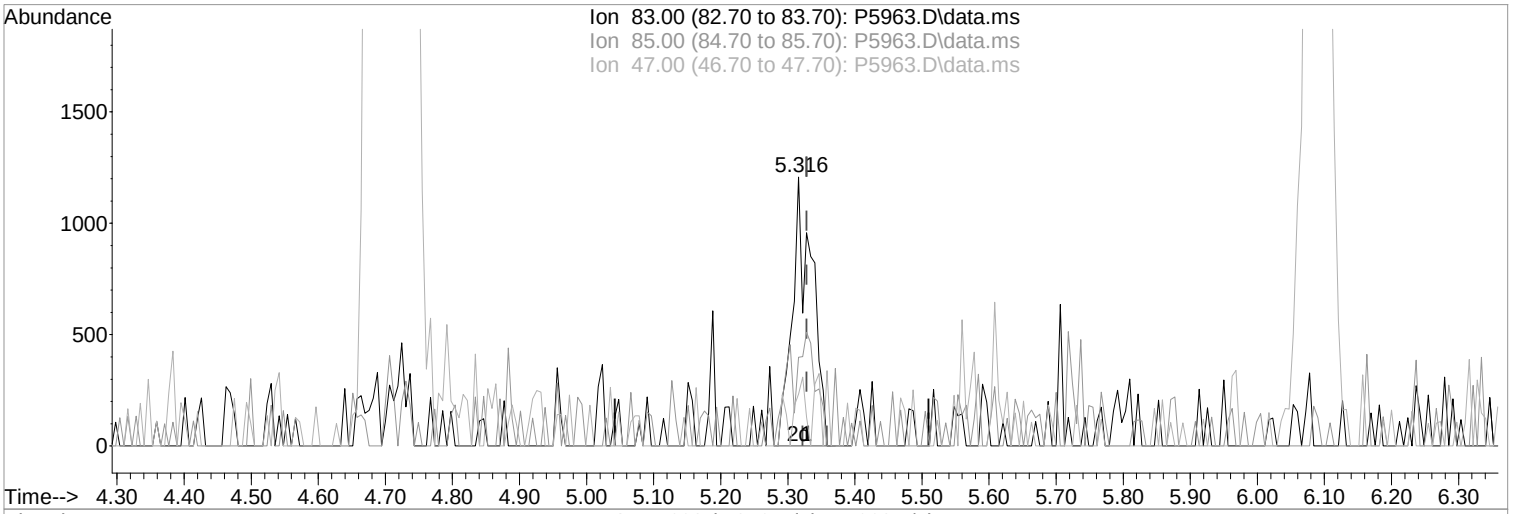
Split Peak

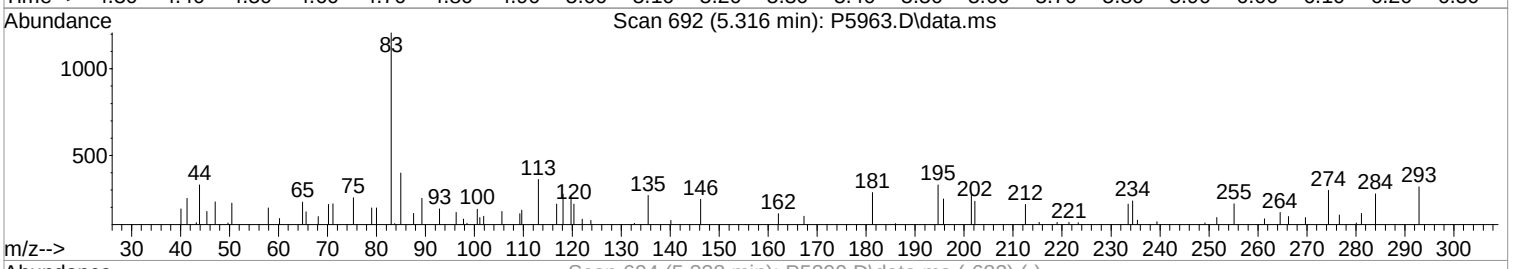
10/27/16

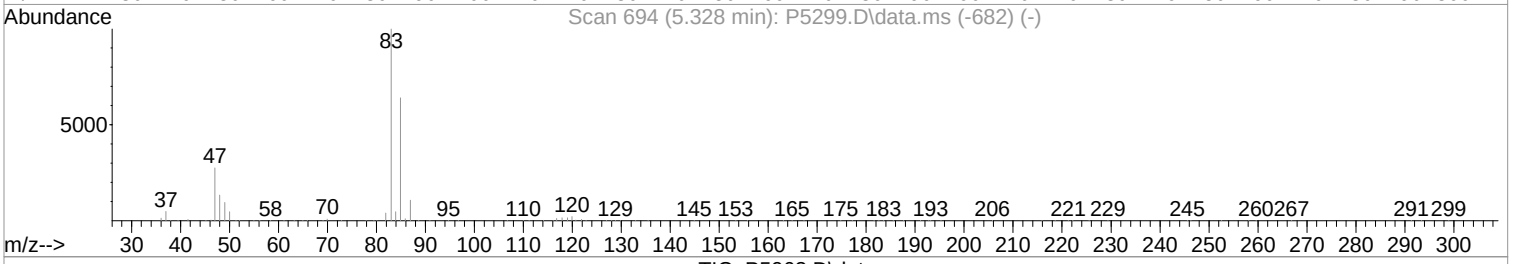
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 15:58:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5963.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.24 ppb m

response 2468

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	32.95#
47.00	27.40	19.29
0.00	0.00	0.00

Manual Integration:

After

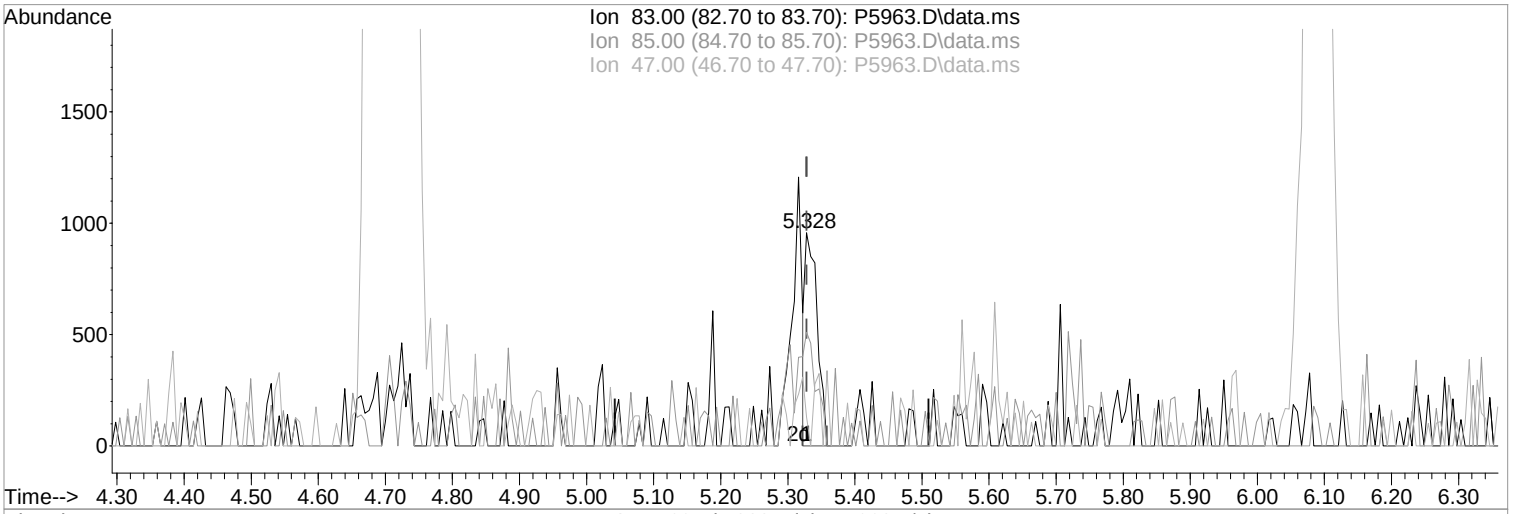
Split Peak

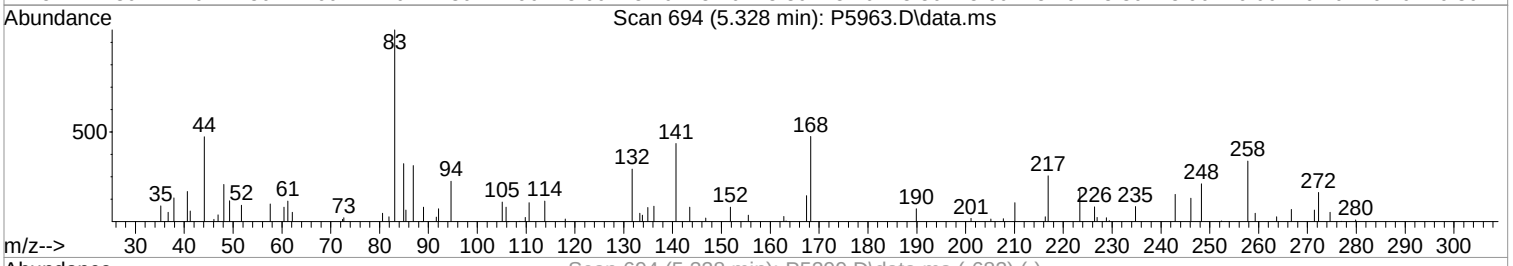
10/27/16

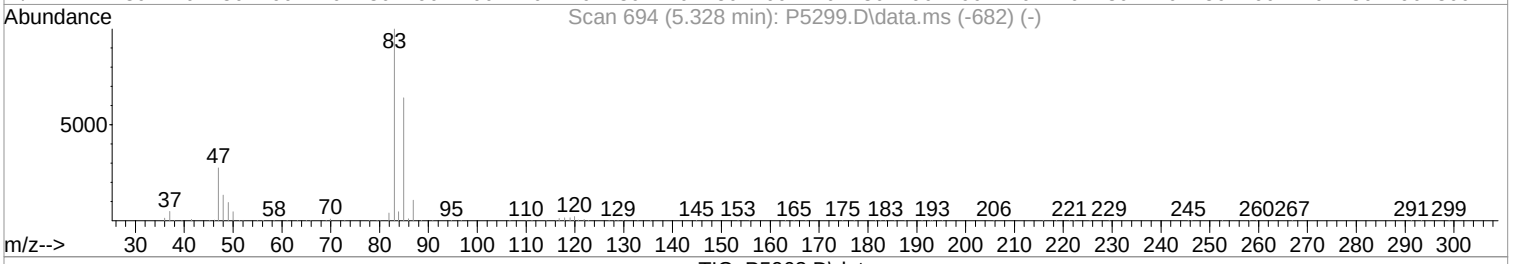
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 15:58:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5963.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.11 ppb

response 1192

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	53.40
47.00	27.40	13.58
0.00	0.00	0.00

Manual Integration:

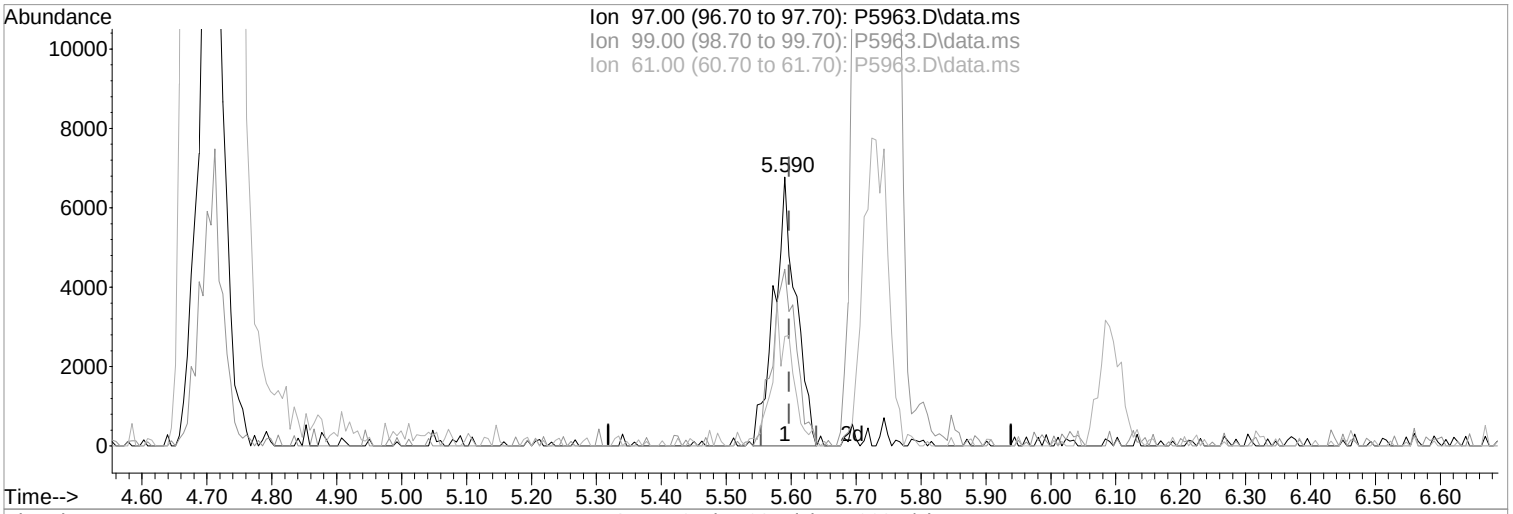
Before

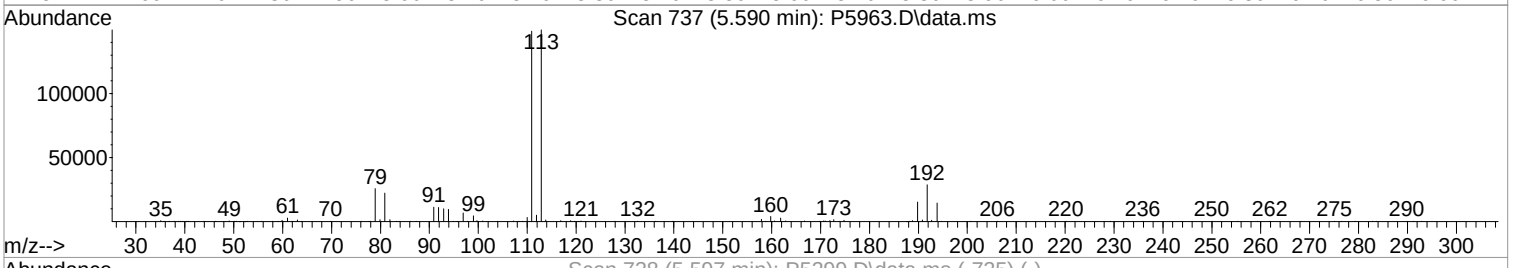
10/27/16

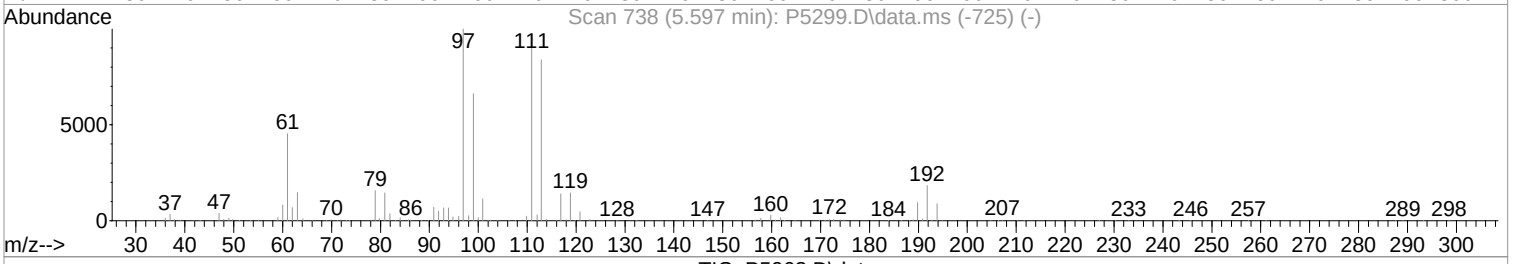
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 15:58:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5963.D\data.ms

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

5.590min (-0.006) 1.67 ppb m

response 15969

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	65.74
61.00	45.30	40.71
0.00	0.00	0.00

Manual Integration:

After

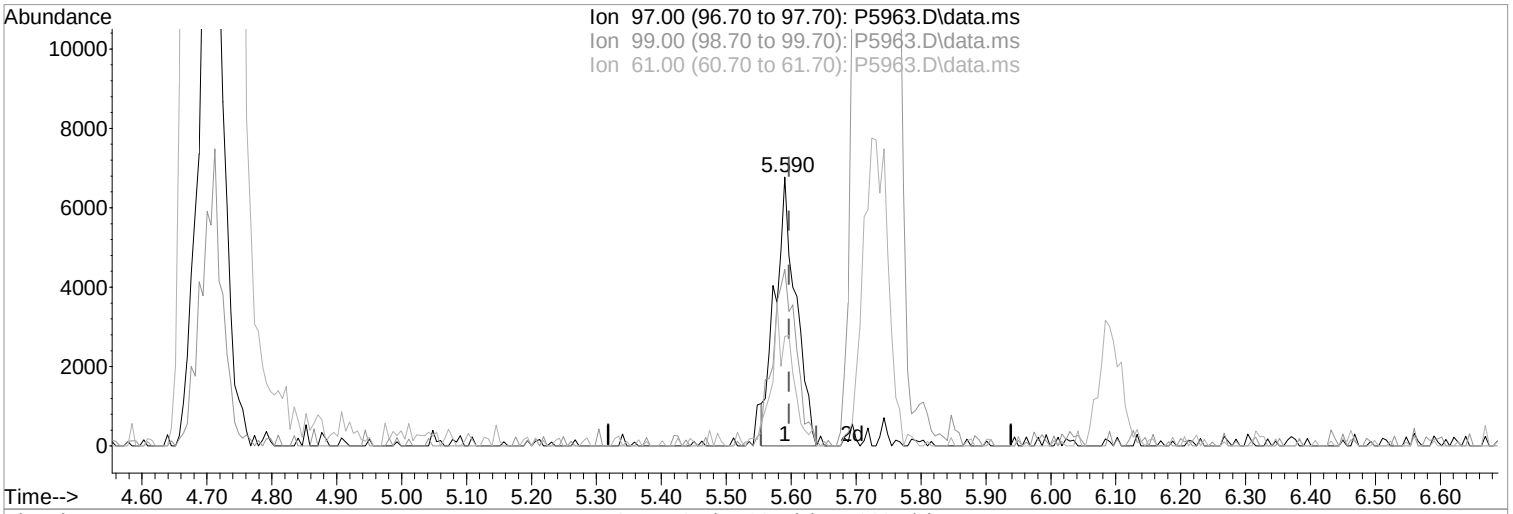
Split Peak

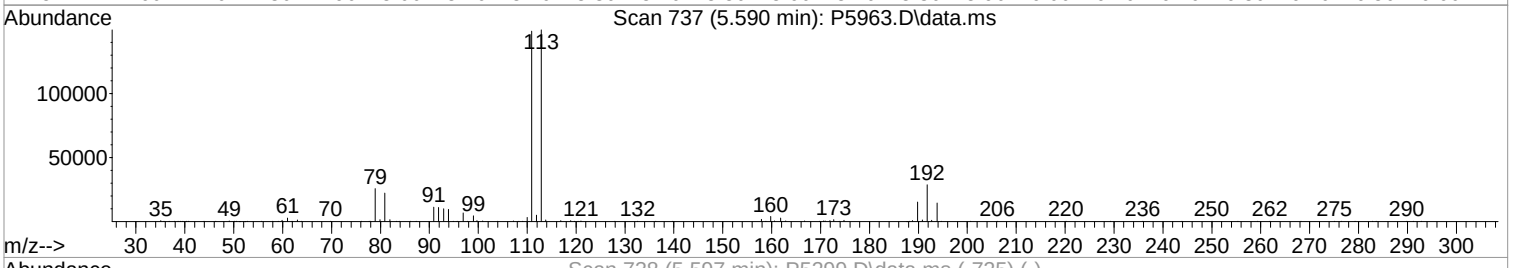
10/27/16

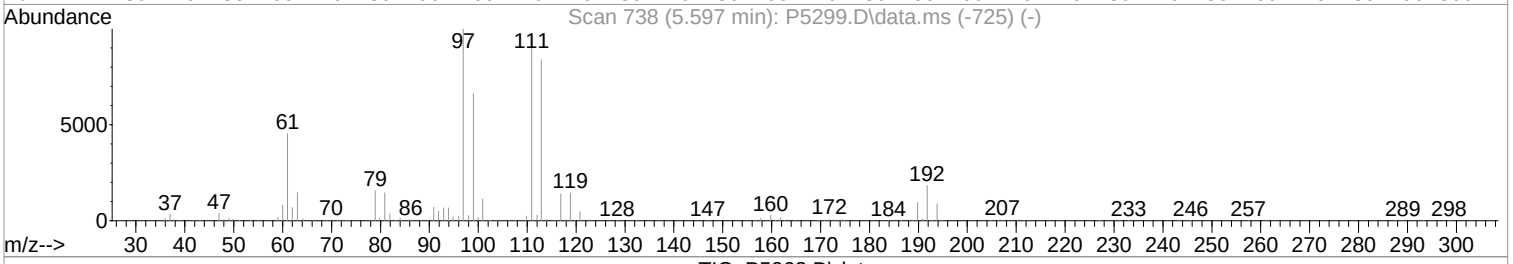
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 15:58:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5963.D\data.ms

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

5.590min (-0.006) 1.59 ppb

response 15201

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	74.95
61.00	45.30	40.71
0.00	0.00	0.00

Manual Integration:

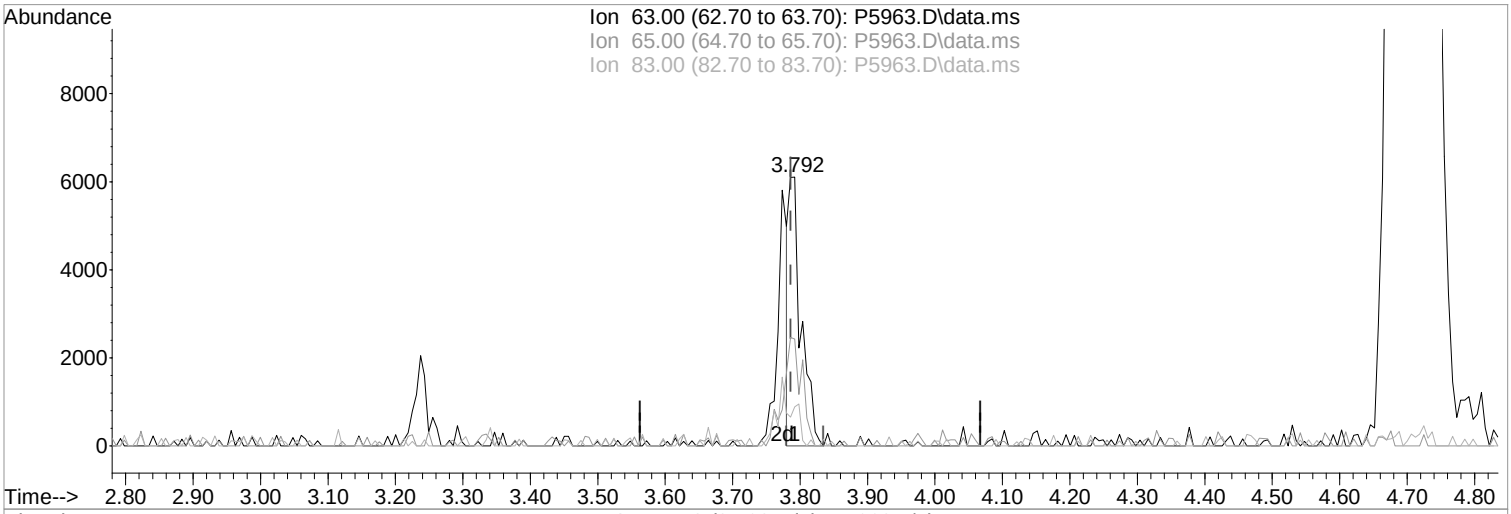
Before

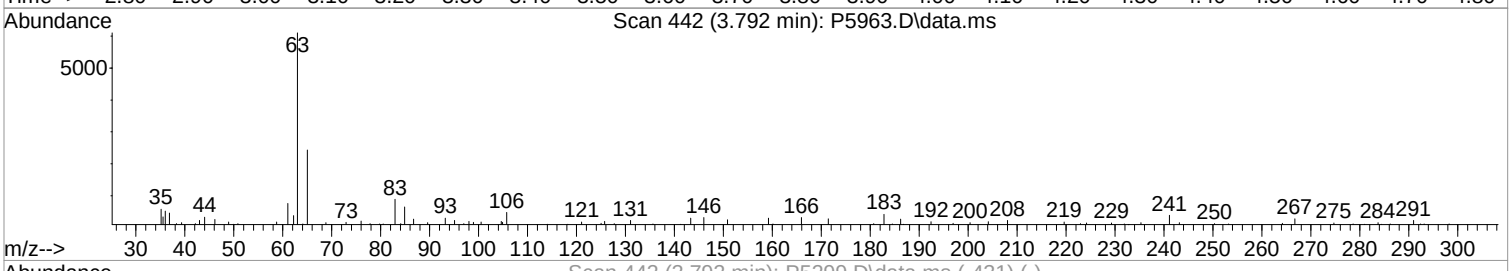
10/27/16

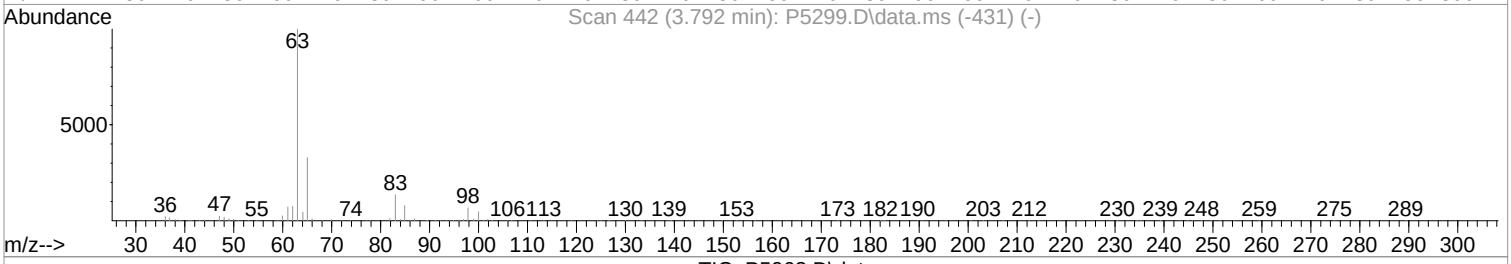
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 15:58:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5963.D\data.ms

(28) 1,1-Diclethane (P)

3.792min (+0.006) 0.71 ppb

response 7613

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	39.83
83.00	13.50	14.57
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 10:40:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

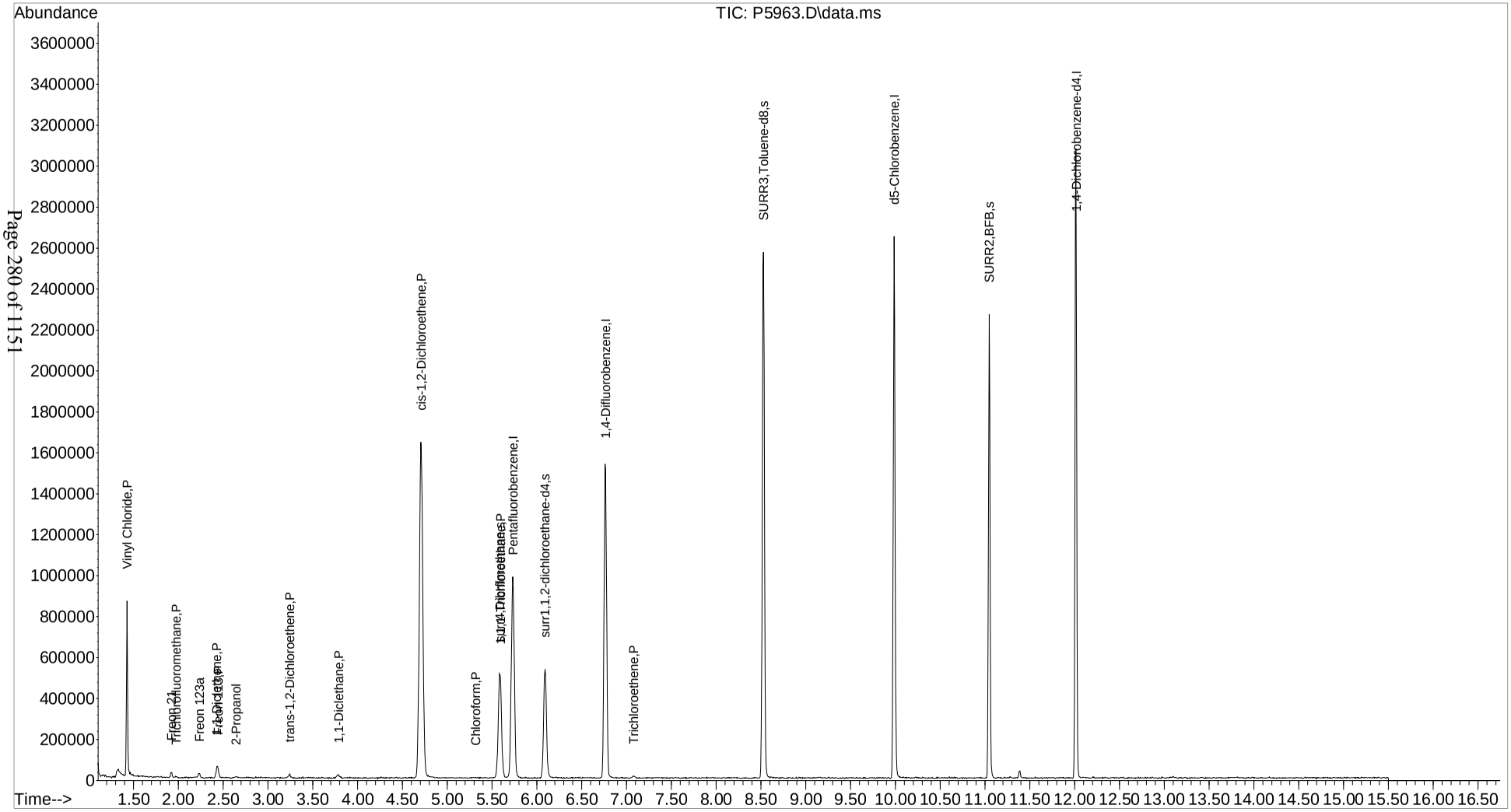
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	822560	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1308656	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1183620	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	611042	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	380483	54.48	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.96%				
48) surr1,1,2-dichloroetha...	6.090	65	424351	53.49	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.98%				
65) SURR3,Toluene-d8	8.529	98	1603182	56.02	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.04%				
70) SURR2,BFB	11.047	95	580790	52.02	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.04%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	469586	72.16	ppb		98
7) Freon 21	1.920	67	14932	1.73	ppb		85
8) Trichlorofluoromethane	1.975	101	2529	0.34	ppb	#	80
10) Freon 123a	2.231	67	7259	1.39	ppb		98
13) 1,1-Diclethene	2.426	96	2755	0.48	ppb	#	66
14) Freon 113	2.438	101	19652	3.24	ppb		91
16) 2-Propanol	2.640	45	3422	11.96	ppb		62
26) trans-1,2-Dichloroethene	3.243	96	6409	1.00	ppb	#	85
28) 1,1-Diclethane	3.792	63	13382m	1.25	ppb		
34) cis-1,2-Dichloroethene	4.706	96	1038478	158.21	ppb		96
40) Chloroform	5.316	83	2468m	0.24	ppb		
41) 1,1,1-Trichloroethane	5.590	97	15969m	1.67	ppb		
54) Trichloroethene	7.078	130	3153	0.46	ppb		85

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

Quantitation Report (QT Reviewed)

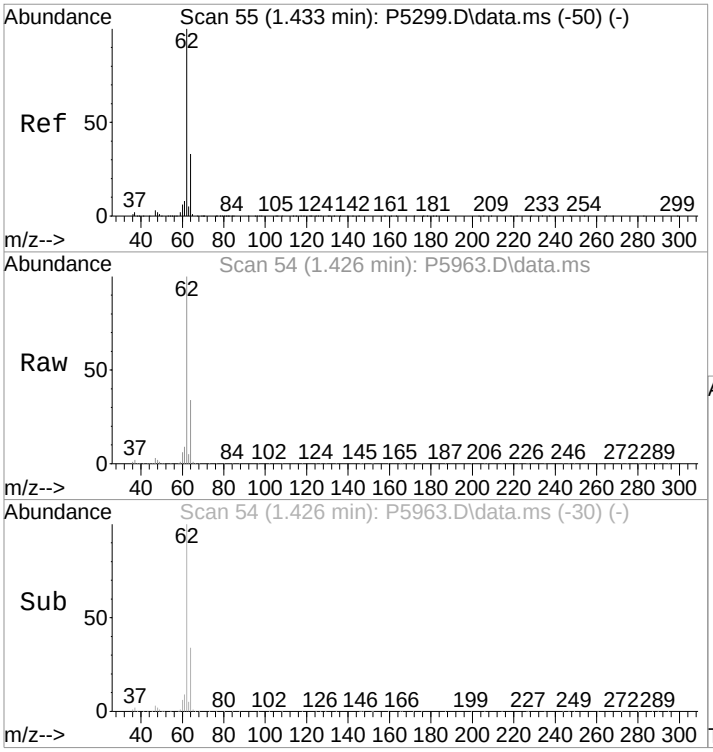
Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5963.D
Acq On : 26 Oct 2016 3:24 pm
Operator : K.Ruest
Sample : R1611185-002|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 10:40:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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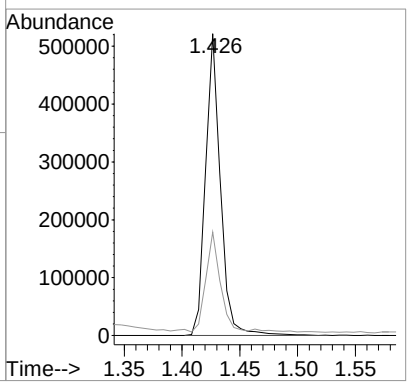
1st 10/27/16
2nd 10/27/16

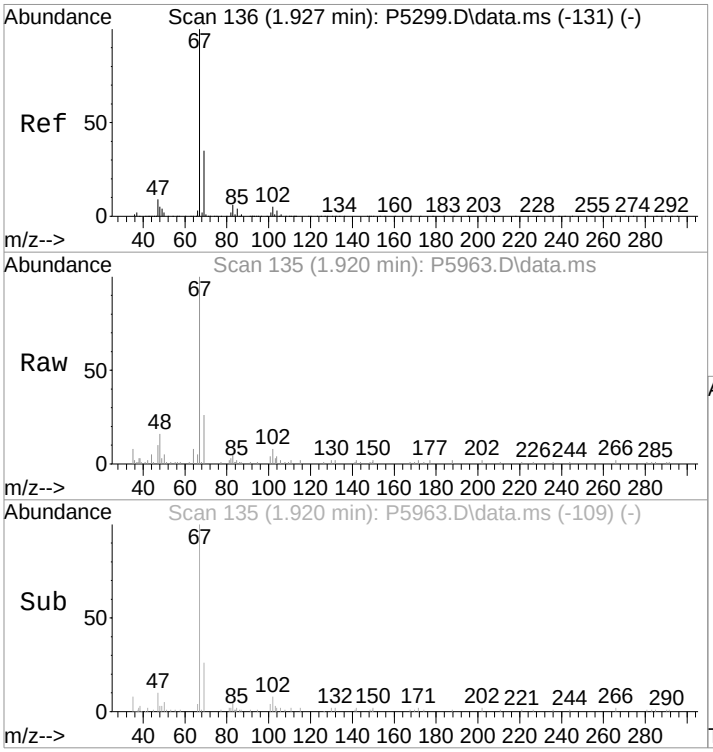


#4
Vinyl Chloride
Concen: 72.16 ppb
RT: 1.426 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 62 Resp: 469586

Ion	Ratio	Lower	Upper
62	100		
64	34.2	13.1	53.1

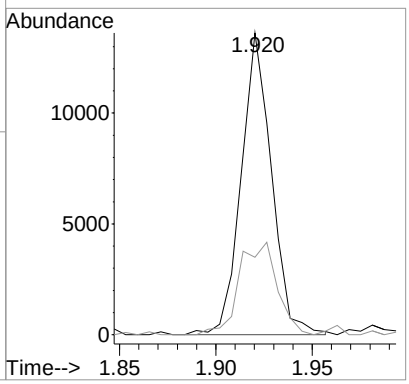


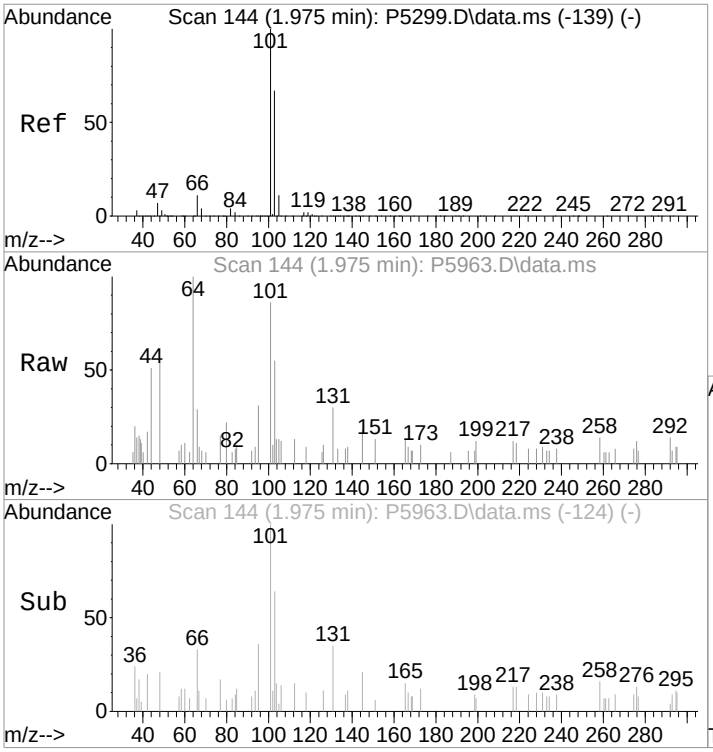


#7
Freon 21
Concen: 1.73 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 67 Resp: 14932

Ion	Ratio	Lower	Upper
67	100		
69	25.6	14.4	54.4

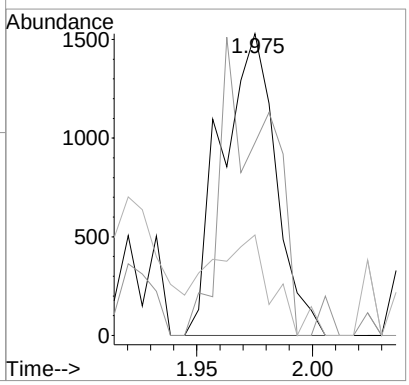


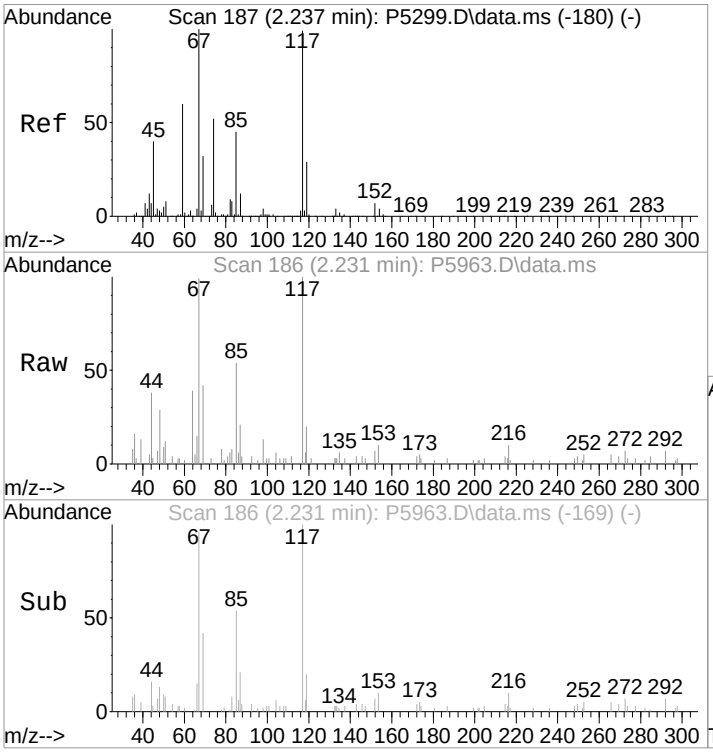


#8
Trichlorofluoromethane
Concen: 0.34 ppb
RT: 1.975 min Scan# 144
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion:101 Resp: 2529

Ion	Ratio	Lower	Upper
101	100		
103	78.8	47.3	87.3
66	33.3	0.0	31.5#

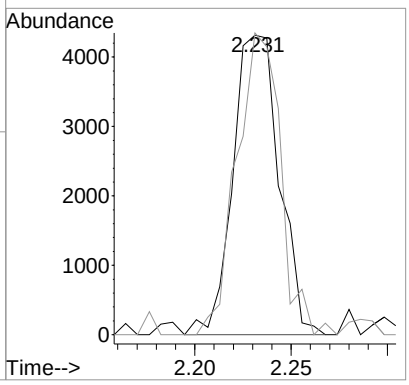


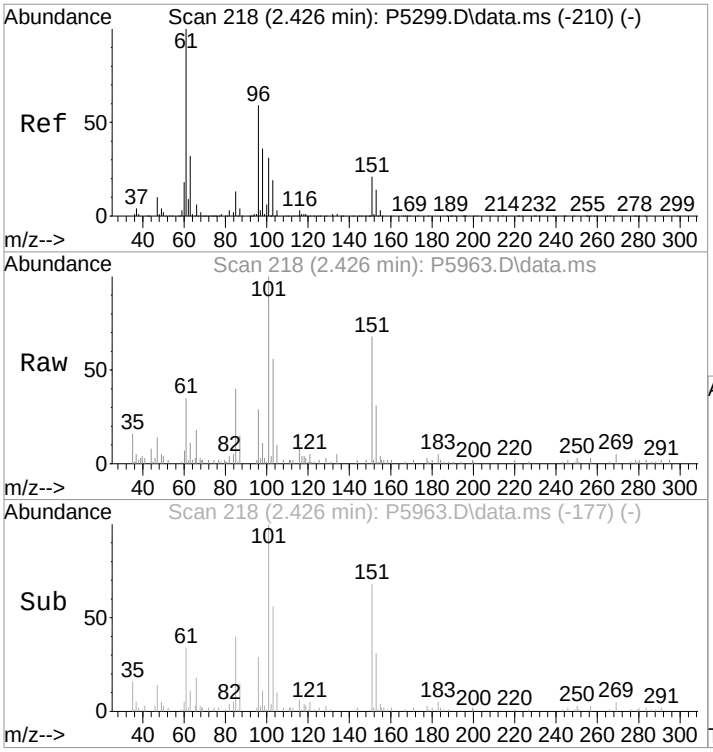


#10
Freon 123a
Concen: 1.39 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 67 Resp: 7259

Ion	Ratio	Lower	Upper
67	100		
117	100.8	78.8	118.8

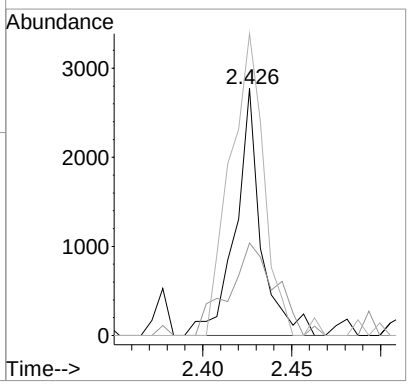


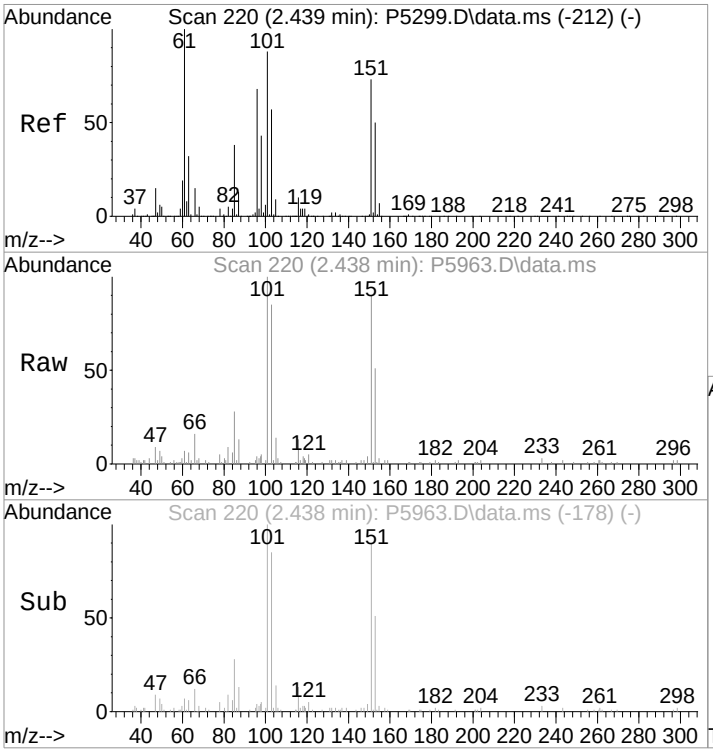


#13
1,1-Diclethene
Concen: 0.48 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 96 Resp: 2755

Ion	Ratio	Lower	Upper
96	100		
98	37.4	41.8	81.8#
61	122.2	150.1	190.1#

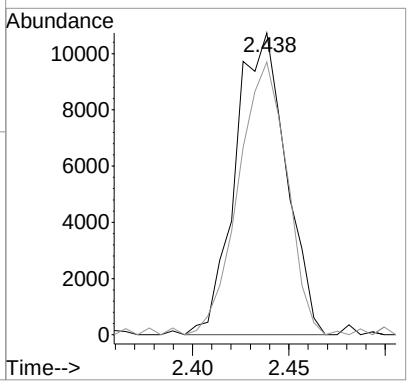


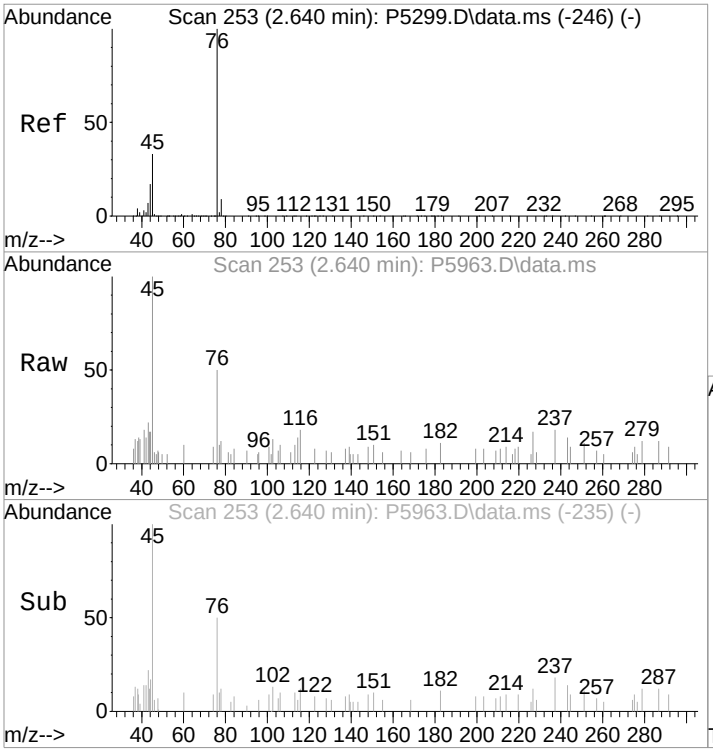


#14
Freon 113
Concen: 3.24 ppb
RT: 2.438 min Scan# 220
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion:101 Resp: 19652

Ion	Ratio	Lower	Upper
101	100		
151	90.3	62.6	102.6

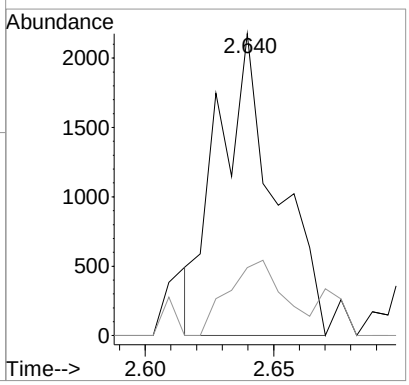


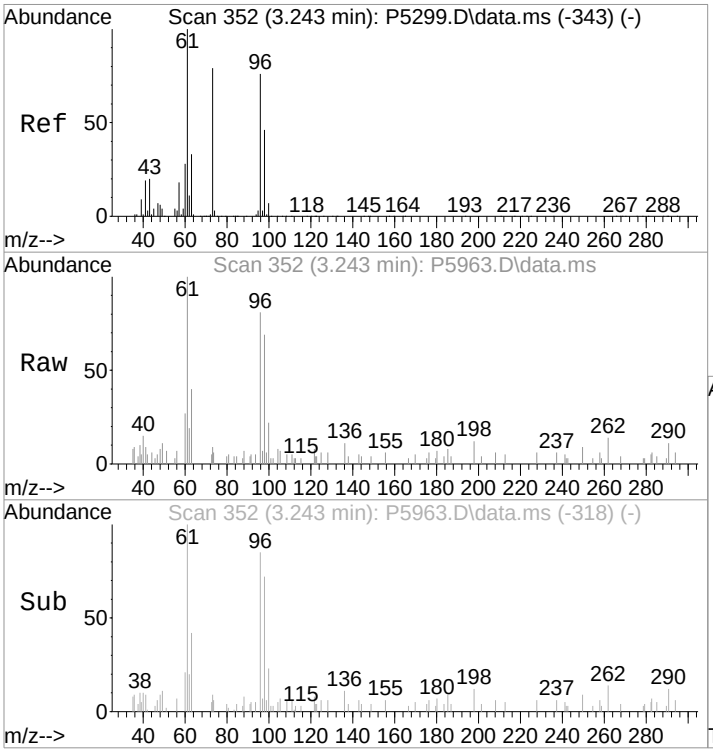


#16
2-Propanol
Concen: 11.96 ppb
RT: 2.640 min Scan# 253
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 45 Resp: 3422

Ion	Ratio	Lower	Upper
45	100		
43	39.7	1.6	41.6

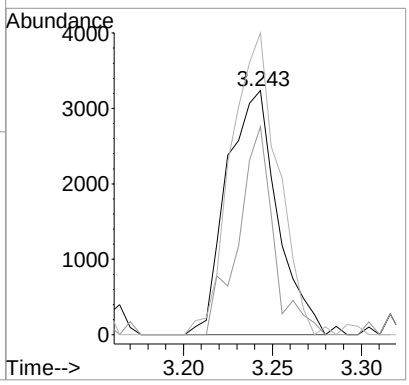


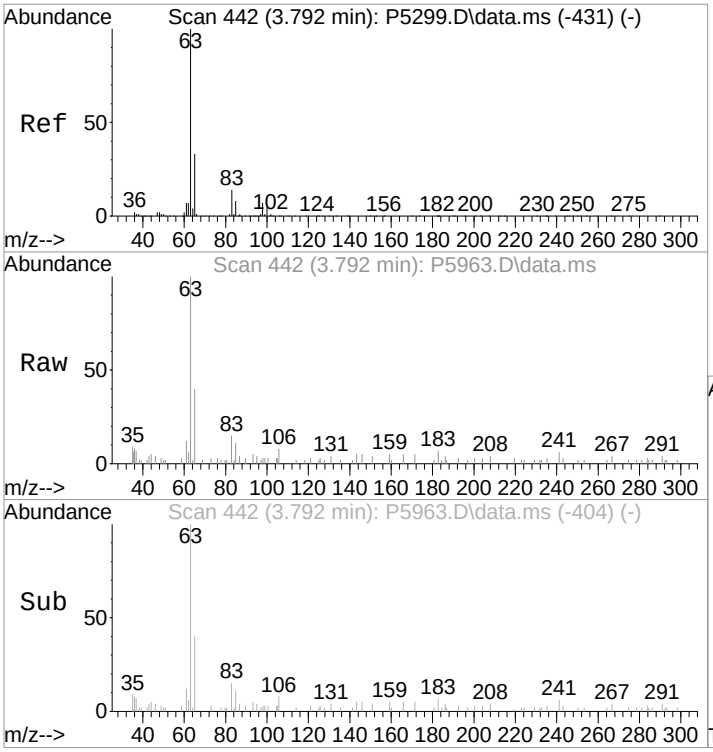


#26
trans-1,2-Dichloroethene
Concen: 1.00 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 96 Resp: 6409

Ion	Ratio	Lower	Upper
96	100		
98	85.2	41.0	81.0#
61	123.7	112.4	152.4

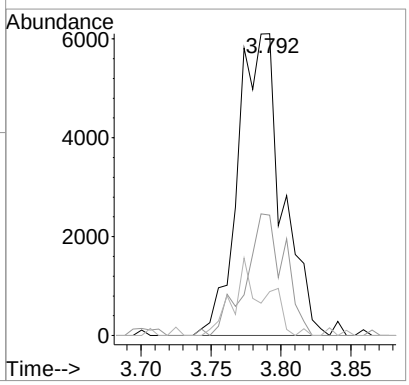


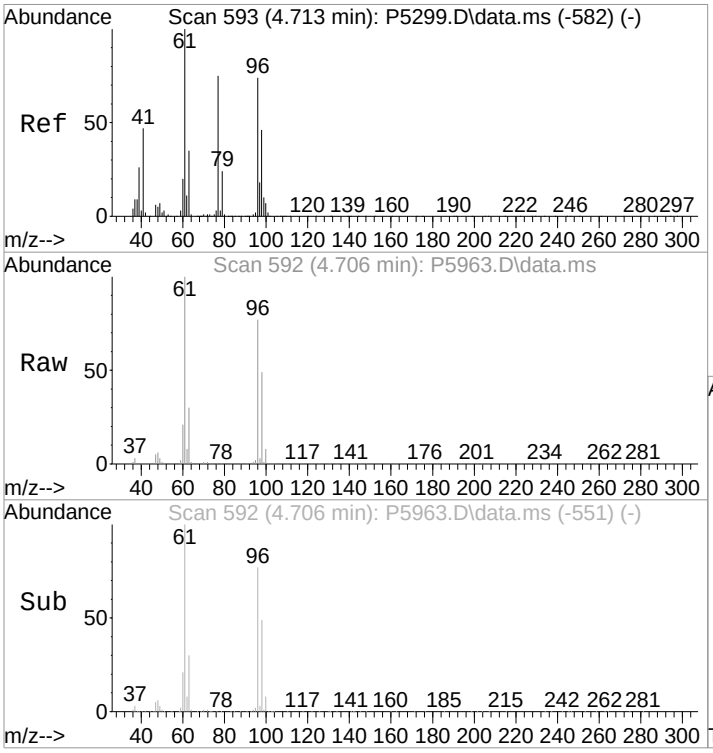


#28
1,1-Diclethane
Concen: 1.25 ppb m
RT: 3.792 min Scan# 442
Delta R.T. 0.006 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 63 Resp: 13382

Ion	Ratio	Lower	Upper
63	100		
65	39.8	12.9	52.9
83	14.6	0.0	33.5

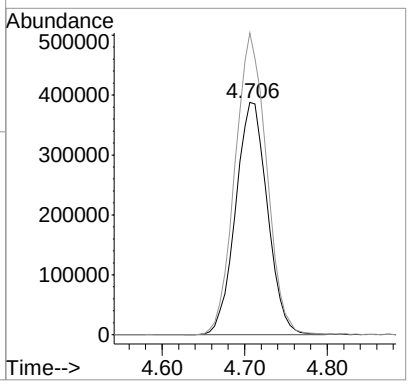


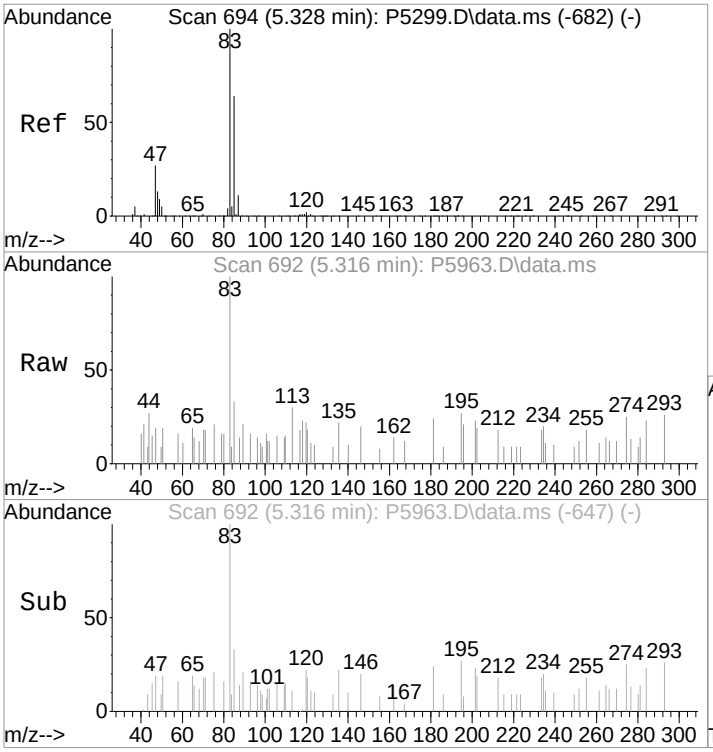


#34
cis-1,2-Dichloroethene
Concen: 158.21 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 96 Resp: 1038478

Ion	Ratio	Lower	Upper
96	100		
61	130.0	114.6	154.6

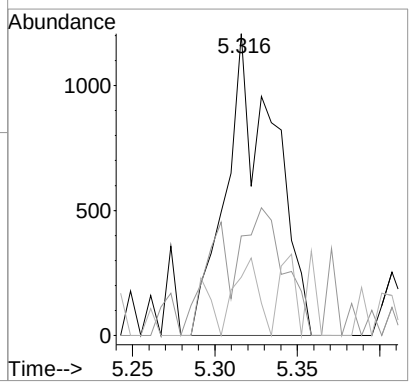


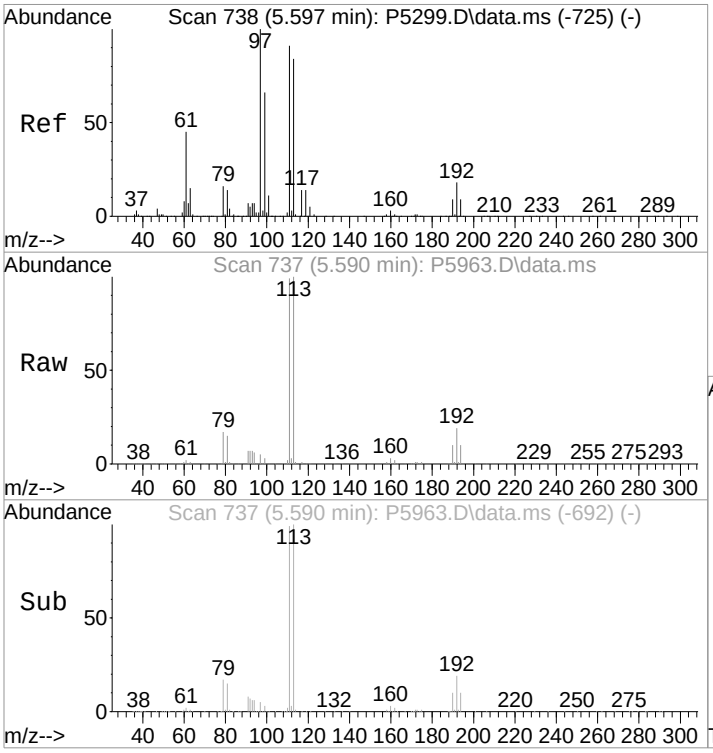


#40
Chloroform
Concen: 0.24 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 83 Resp: 2468

Ion	Ratio	Lower	Upper
83	100		
85	32.9	44.1	84.1#
47	19.3	7.4	47.4

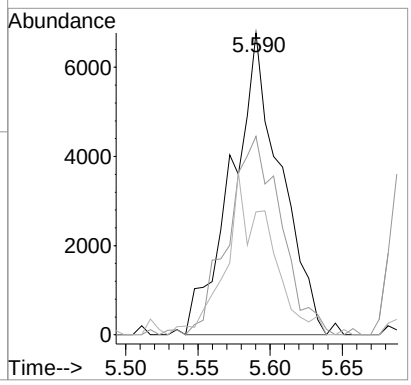


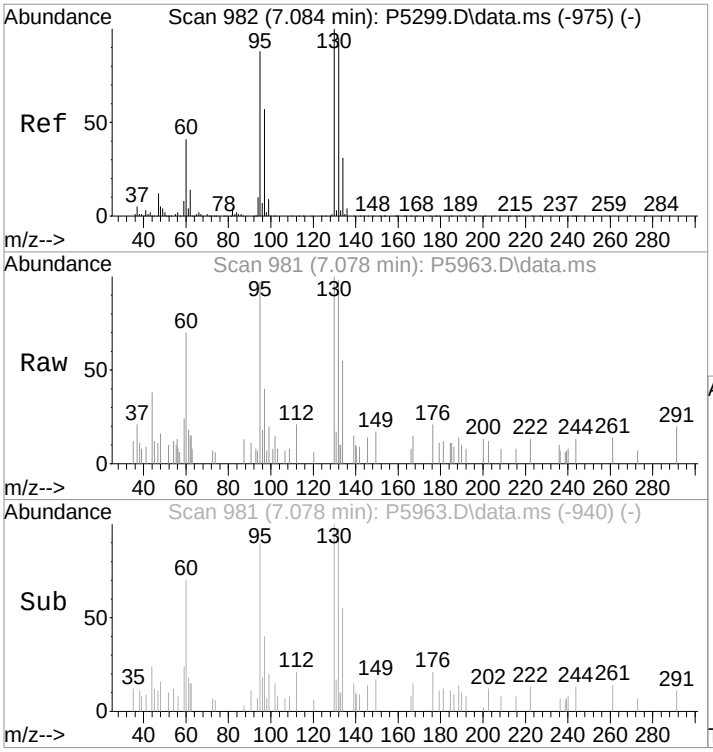


#41
1,1,1-Trichloroethane
Concen: 1.67 ppb m
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion: 97 Resp: 15969

Ion	Ratio	Lower	Upper
97	100		
99	65.7	46.2	86.2
61	40.7	25.3	65.3

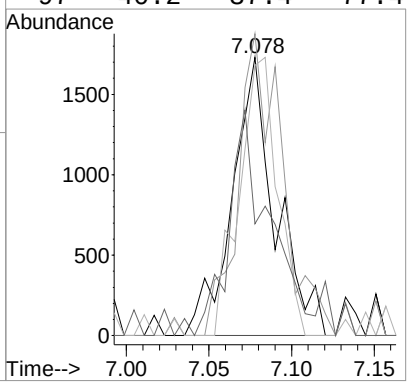




#54
Trichloroethene
Concen: 0.46 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5963.D
Acq: 26 Oct 2016 3:24 pm

Tgt Ion:130 Resp: 3153

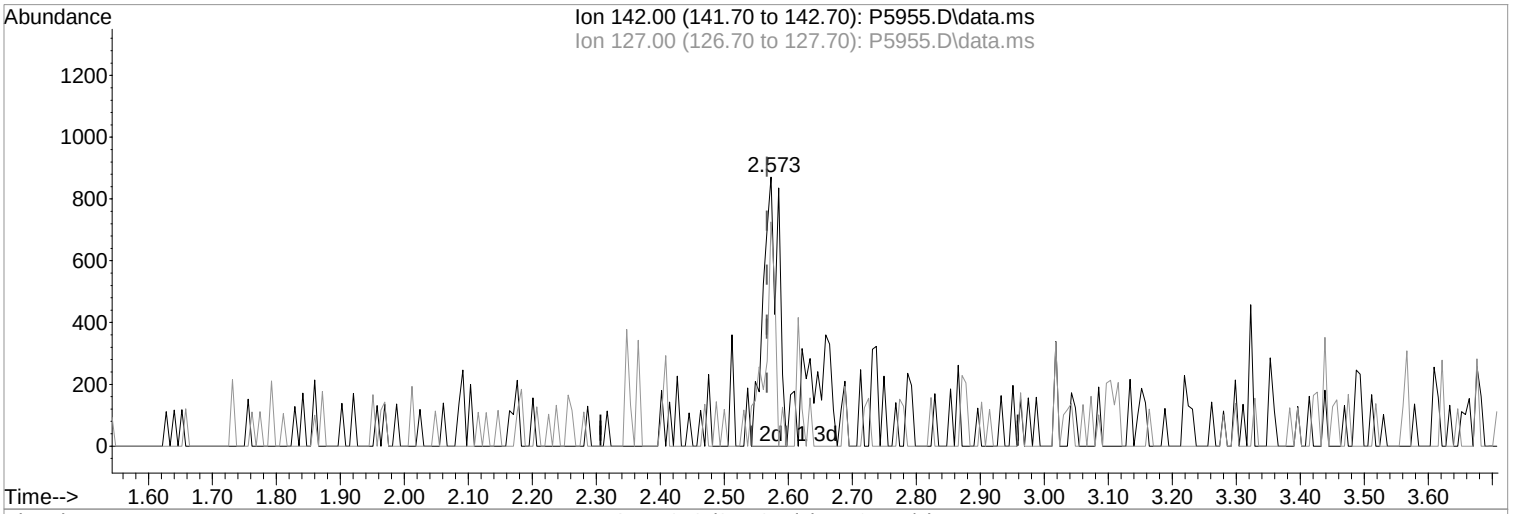
Ion	Ratio	Lower	Upper
130	100		
132	108.6	75.2	115.2
95	97.2	68.1	108.1
97	40.2	37.4	77.4

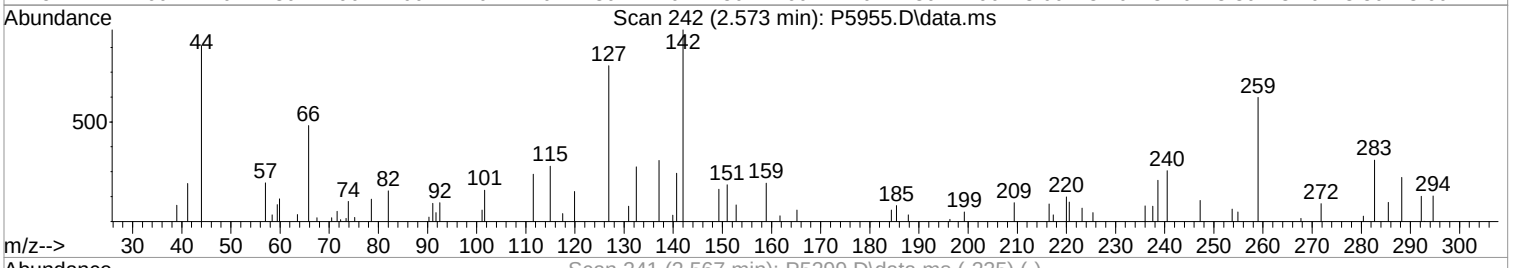


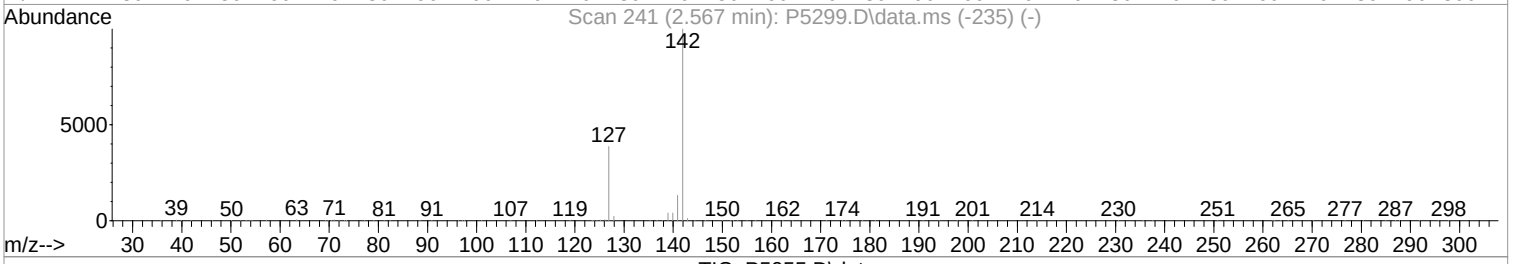
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5955.D
Acq On : 26 Oct 2016 11:22 am
Operator : K.Ruest
Sample : R1611185-003|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 11:59:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5955.D\data.ms

(17) Iodomethane

2.573min (+0.006) 0.19 ppb m

response 1456

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	83.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

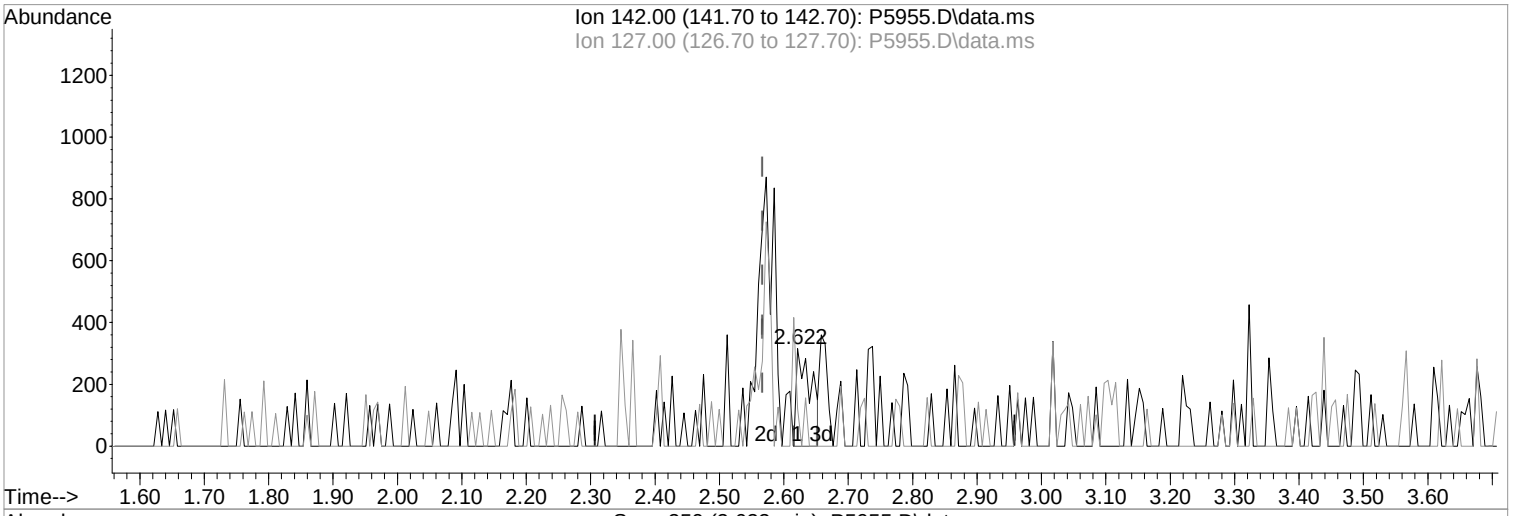
Peak not found.

10/26/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5955.D
Acq On : 26 Oct 2016 11:22 am
Operator : K.Ruest
Sample : R1611185-003|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 11:59:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5955.D\data.ms

(17) Iodomethane

2.622min (+0.055) 0.06 ppb

response 492

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	38.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5955.D
Acq On : 26 Oct 2016 11:22 am
Operator : K.Ruest
Sample : R1611185-003|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 12:10:50 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

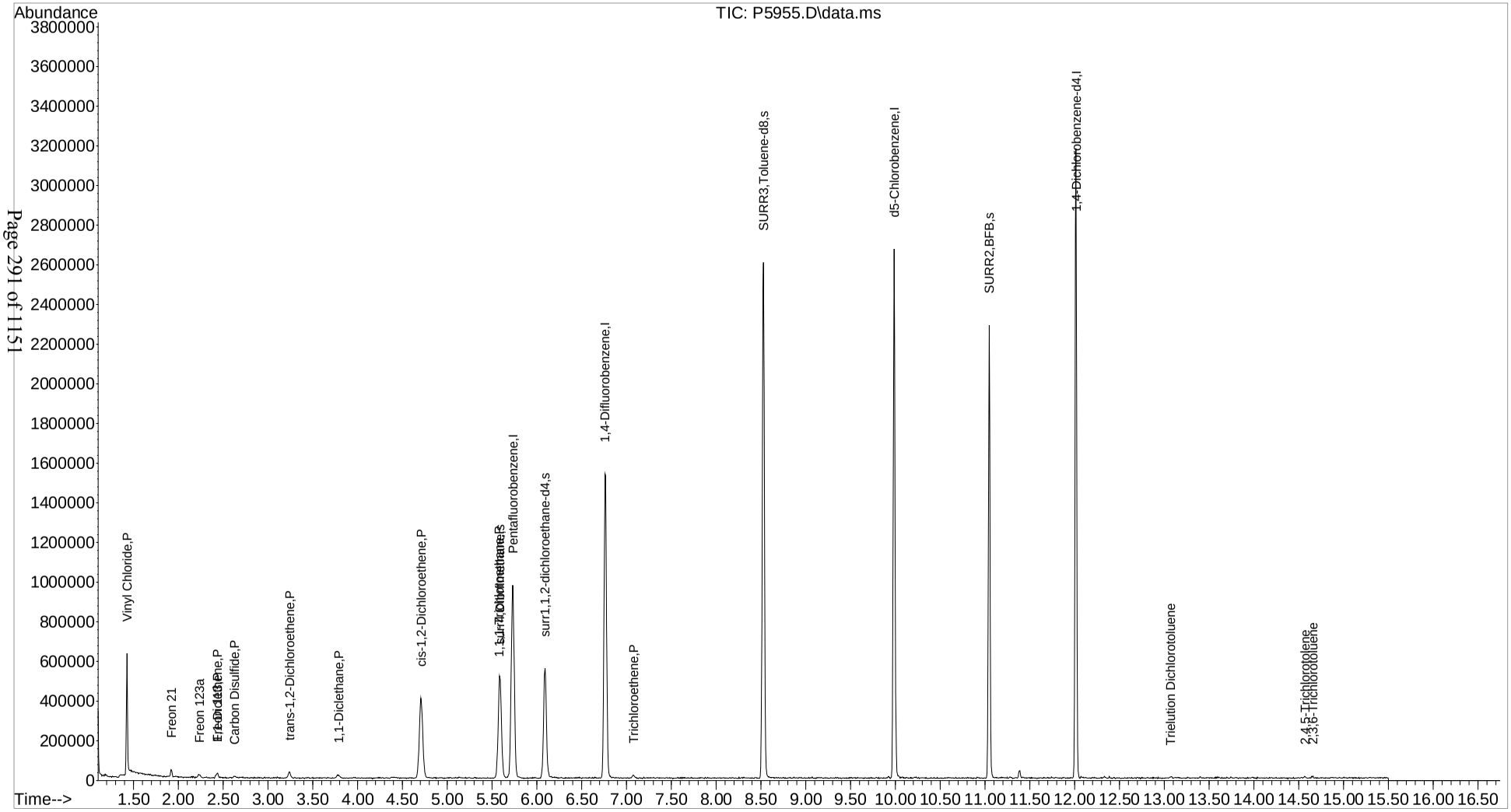
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	812323	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1320954	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1200452	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	626121	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	386366	54.80	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.60%				
48) surr1,1,2-dichloroetha...	6.090	65	441256	55.10	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 110.20%				
65) SURR3,Toluene-d8	8.529	98	1601111	55.42	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.84%				
70) SURR2,BFB	11.047	95	602464	53.45	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.90%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	322608	50.20	ppb		94
7) Freon 21	1.920	67	20787	2.44	ppb		76
10) Freon 123a	2.231	67	5918	1.14	ppb	#	73
13) 1,1-Diclethene	2.433	96	1242	0.22	ppb	#	40
14) Freon 113	2.433	101	8391	1.40	ppb	#	73
18) Carbon Disulfide	2.628	76	10904	0.61	ppb		97
26) trans-1,2-Dichloroethene	3.243	96	11905	1.87	ppb		88
28) 1,1-Diclethane	3.786	63	16823	1.60	ppb		98
34) cis-1,2-Dichloroethene	4.707	96	255512	39.42	ppb		88
41) 1,1,1-Trichloroethane	5.578	97	8833	0.93	ppb		98
54) Trichloroethene	7.078	130	4982	0.71	ppb	#	78
112) Trielution Dichlorotol...	13.071	125	2743	0.22	ppb	#	86
119) 2,4,5-Trichlorotolene	14.570	159	1464	0.25	ppb	#	61
120) 2,3,6-Trichlorotoluene	14.656	159	1173	0.22	ppb	#	79

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

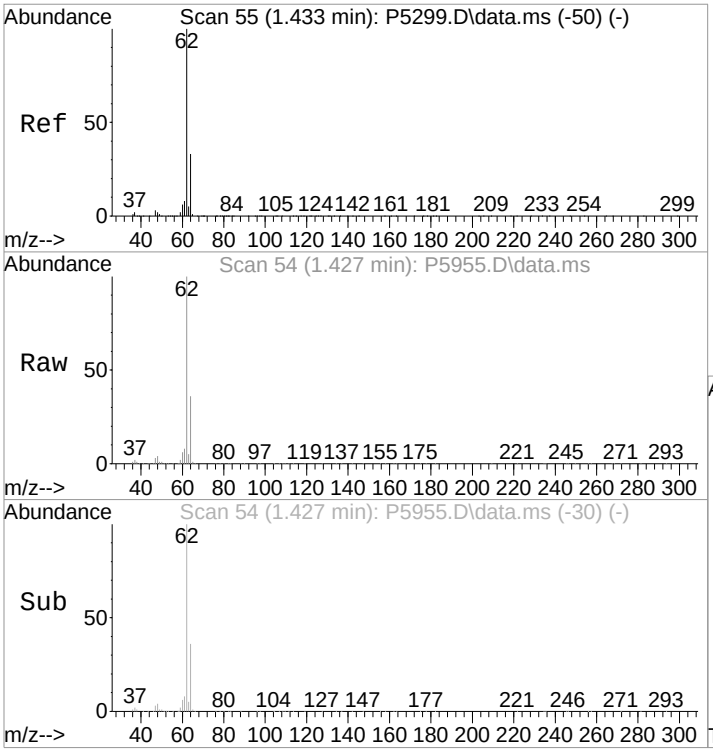
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5955.D
Acq On : 26 Oct 2016 11:22 am
Operator : K.Ruest
Sample : R1611185-003|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 12:10:50 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



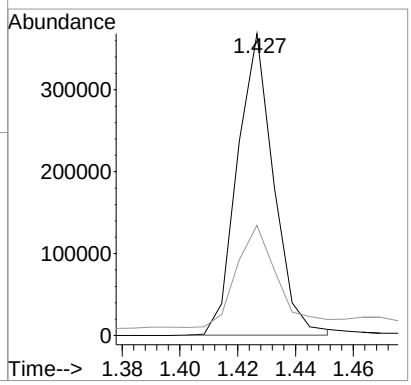
1st 10/26/16
2nd 10/27/16

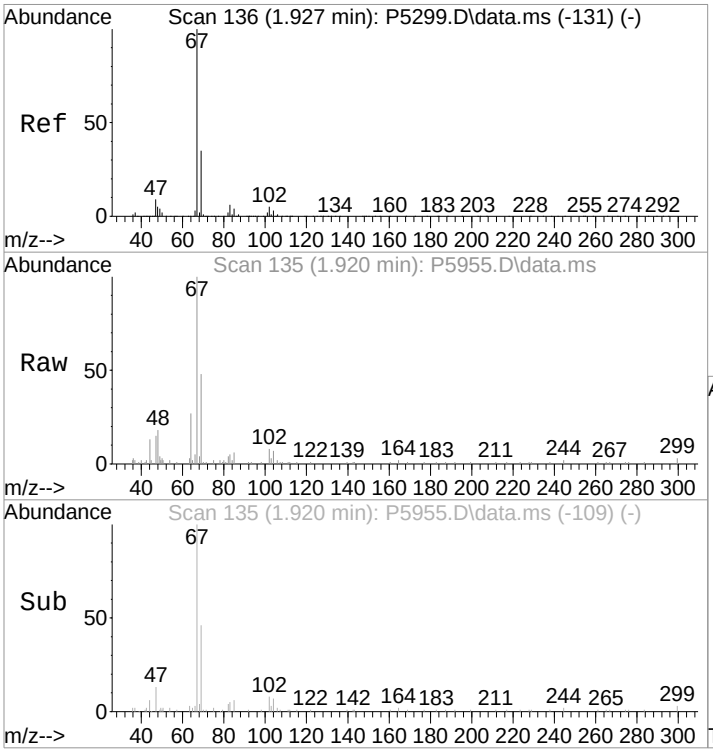


#4
Vinyl Chloride
Concen: 50.20 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 62 Resp: 322608

Ion	Ratio	Lower	Upper
62	100		
64	36.5	13.1	53.1

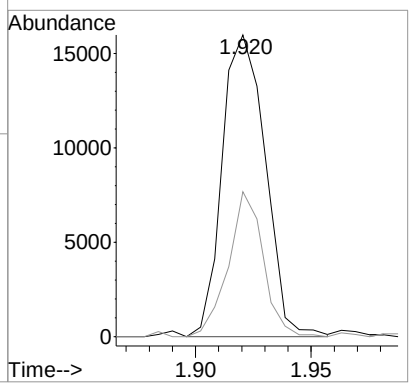


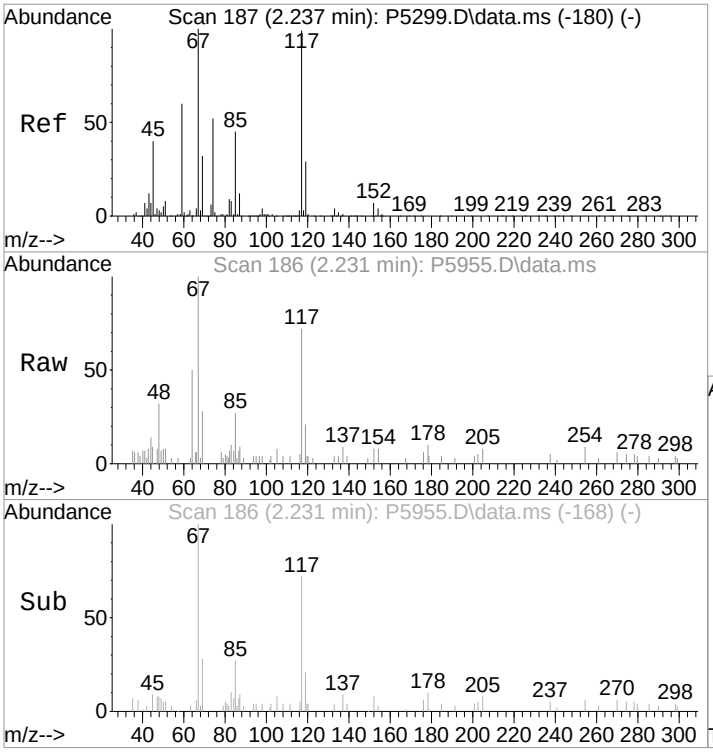


#7
Freon 21
Concen: 2.44 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 67 Resp: 20787

Ion	Ratio	Lower	Upper
67	100		
69	48.0	14.4	54.4

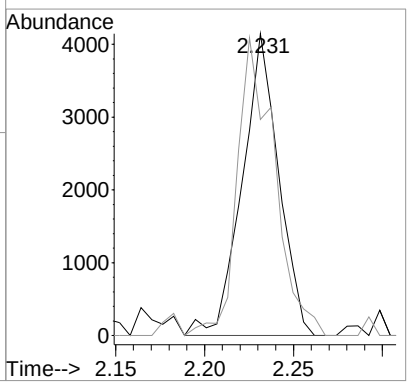


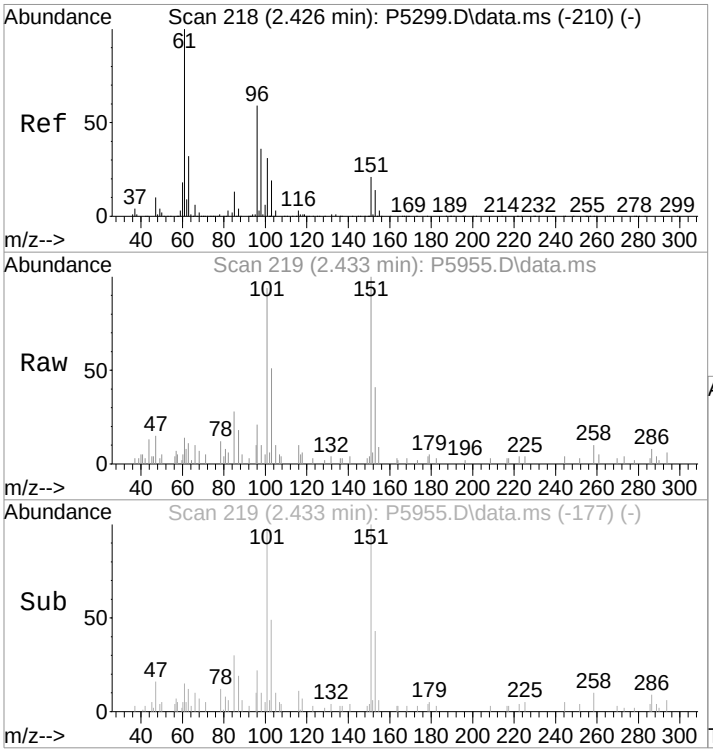


#10
Freon 123a
Concen: 1.14 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 67 Resp: 5918

Ion	Ratio	Lower	Upper
67	100		
117	71.6	78.8	118.8#

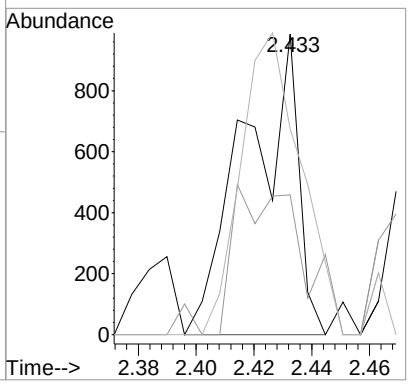


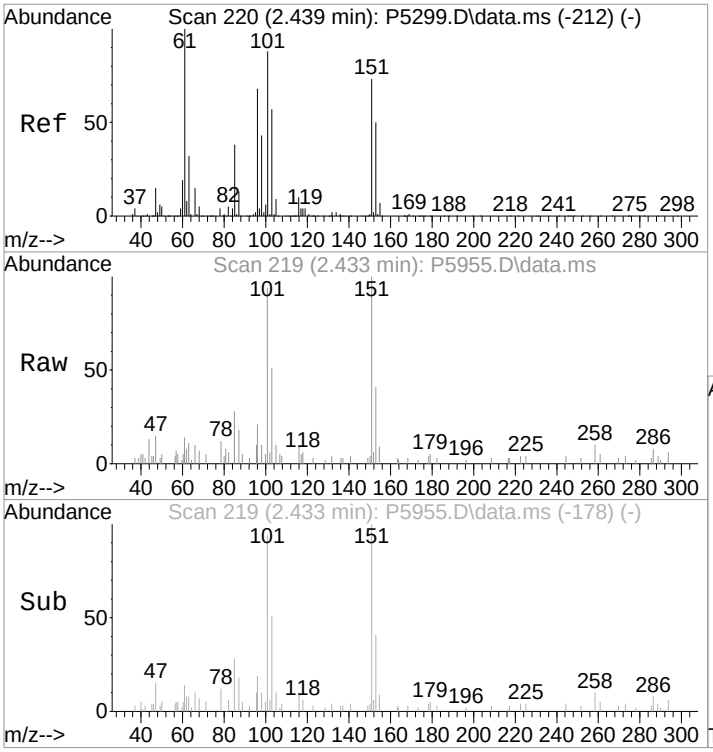


#13
1,1-Diclethene
Concen: 0.22 ppb
RT: 2.433 min Scan# 219
Delta R.T. 0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 96 Resp: 1242

Ion	Ratio	Lower	Upper
96	100		
98	46.6	41.8	81.8
61	68.5	150.1	190.1#

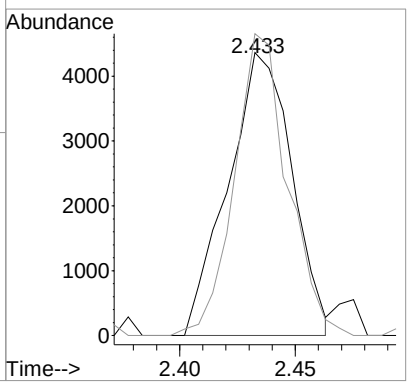


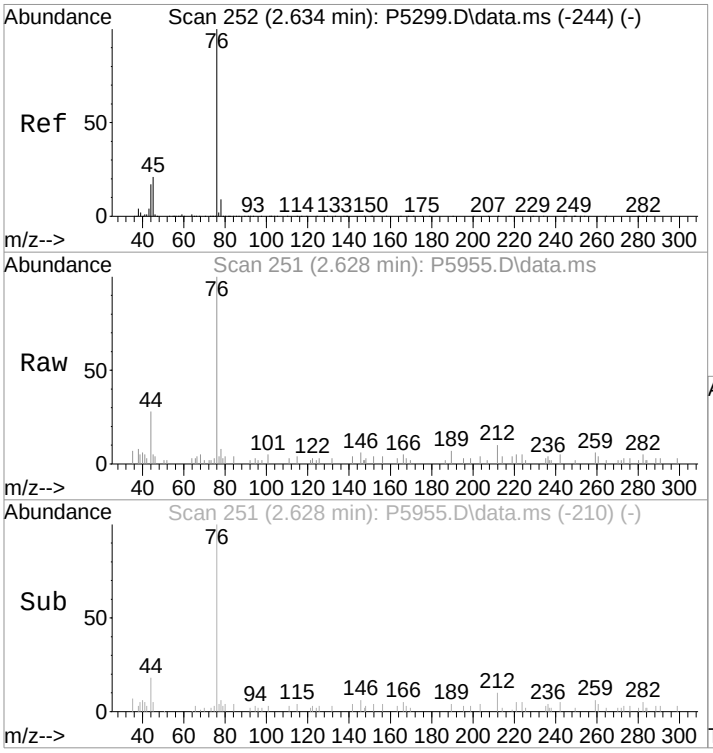


#14
Freon 113
Concen: 1.40 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion:101 Resp: 8391

Ion	Ratio	Lower	Upper
101	100		
151	106.7	62.6	102.6#

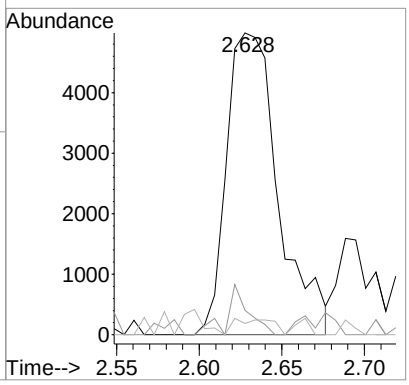


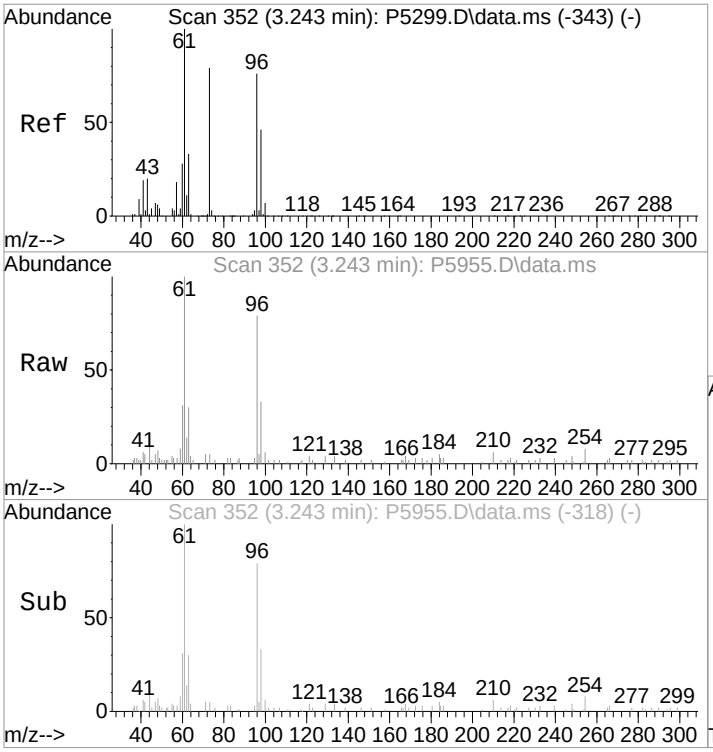


#18
Carbon Disulfide
Concen: 0.61 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 76 Resp: 10904

Ion	Ratio	Lower	Upper
76	100		
78	8.0	0.0	29.3
77	3.7	0.0	22.5

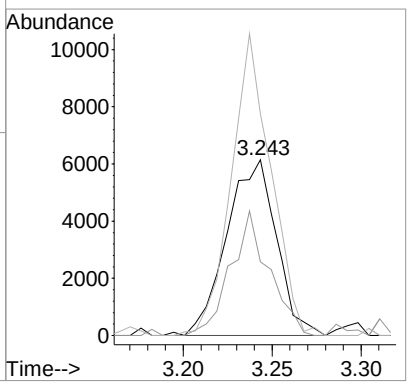


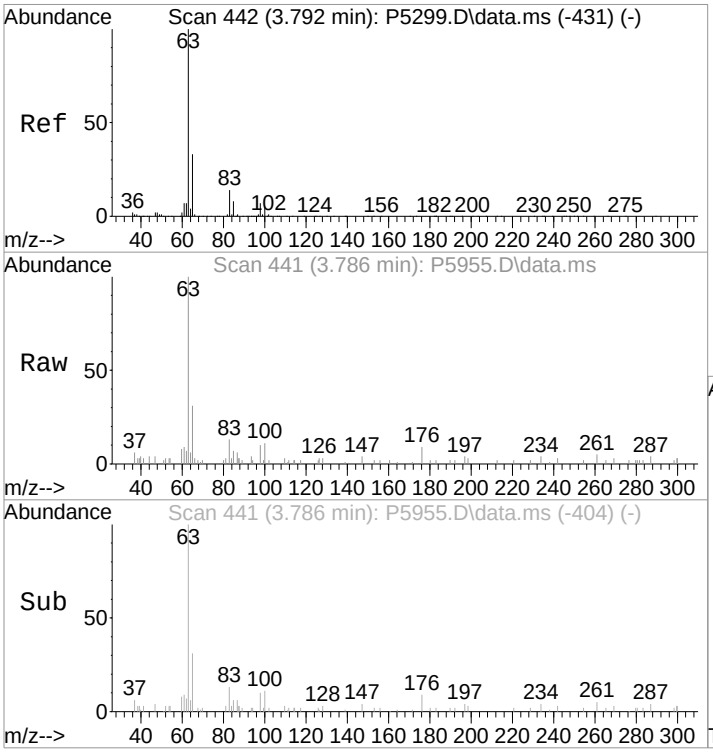


#26
trans-1,2-Dichloroethene
Concen: 1.87 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 96 Resp: 11905

Ion	Ratio	Lower	Upper
96	100		
98	41.9	41.0	81.0
61	126.1	112.4	152.4

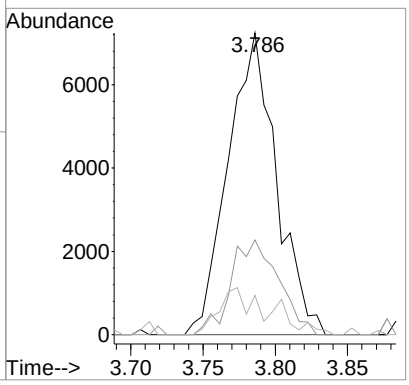


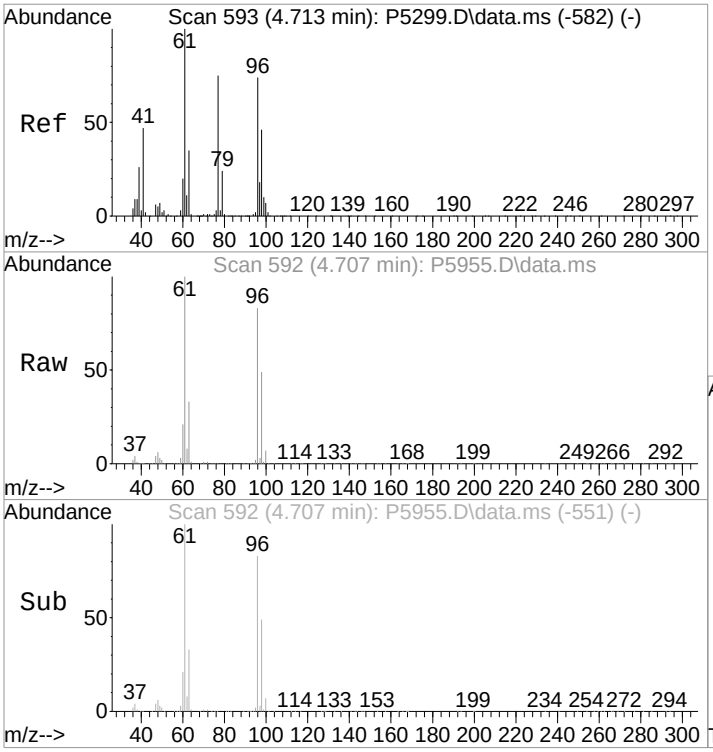


#28
1,1-Diclethane
Concen: 1.60 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 63 Resp: 16823

Ion	Ratio	Lower	Upper
63	100		
65	31.4	12.9	52.9
83	13.0	0.0	33.5

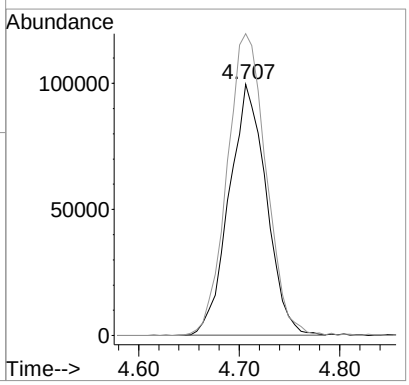


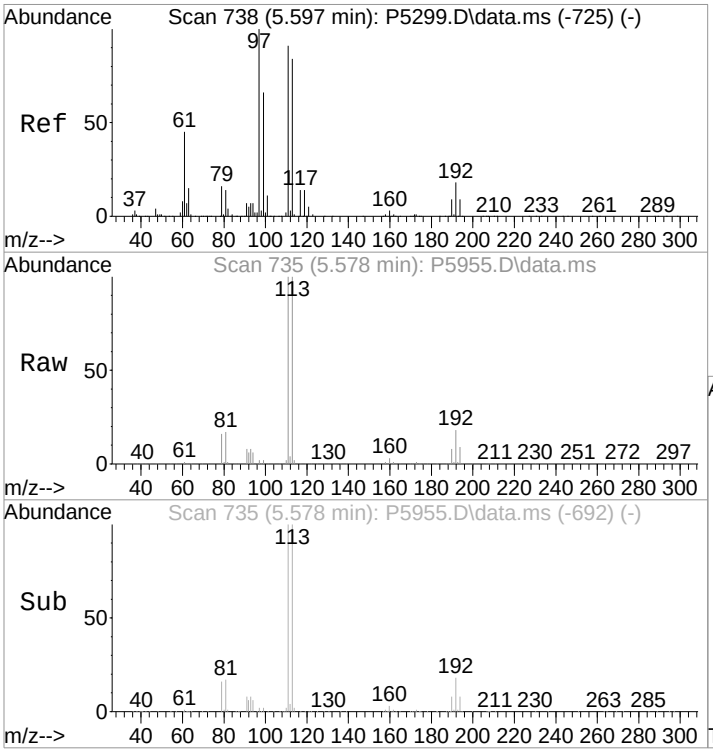


#34
cis-1,2-Dichloroethene
Concen: 39.42 ppb
RT: 4.707 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 96 Resp: 255512

Ion	Ratio	Lower	Upper
96	100		
61	120.1	114.6	154.6

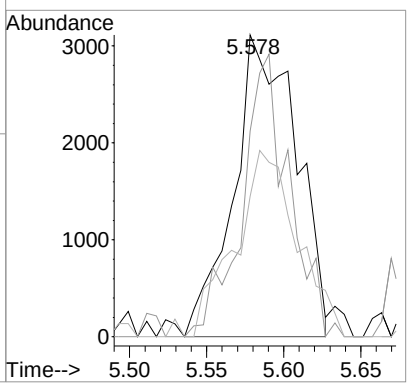


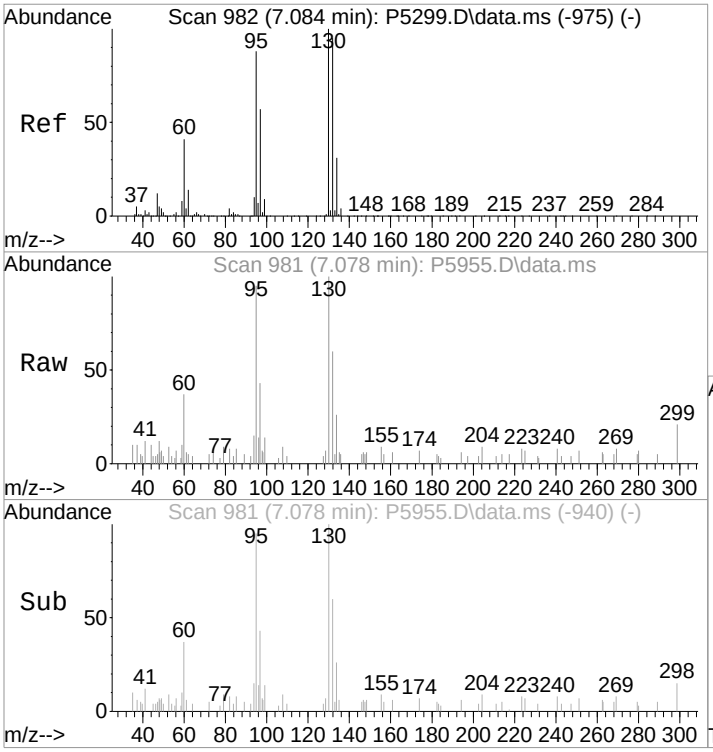


#41
1,1,1-Trichloroethane
Concen: 0.93 ppb
RT: 5.578 min Scan# 735
Delta R.T. -0.018 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion: 97 Resp: 8833

Ion	Ratio	Lower	Upper
97	100		
99	68.1	46.2	86.2
61	46.6	25.3	65.3

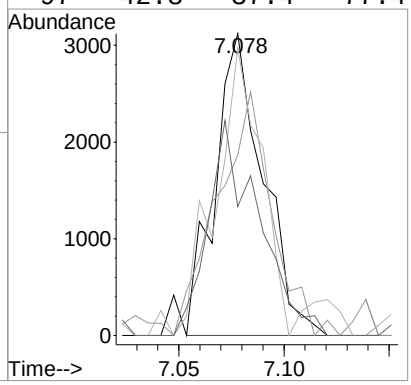


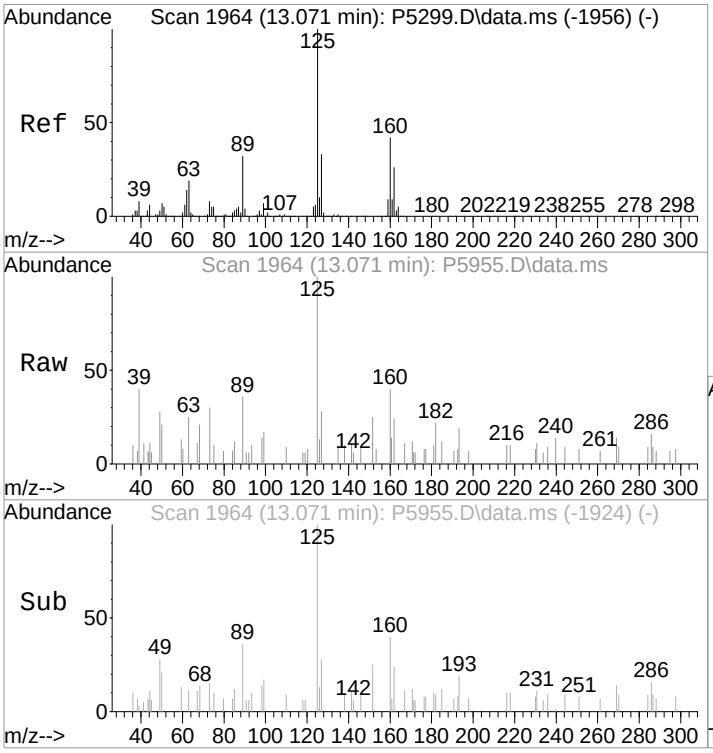


#54
Trichloroethene
Concen: 0.71 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion:130 Resp: 4982

Ion	Ratio	Lower	Upper
130	100		
132	59.8	75.2	115.2#
95	95.2	68.1	108.1
97	42.8	37.4	77.4

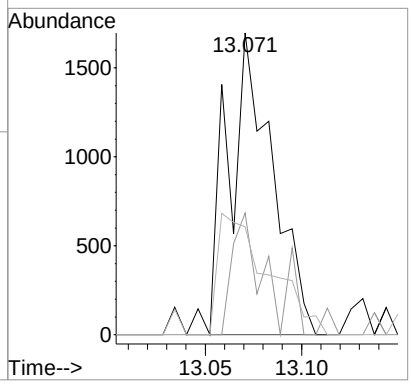


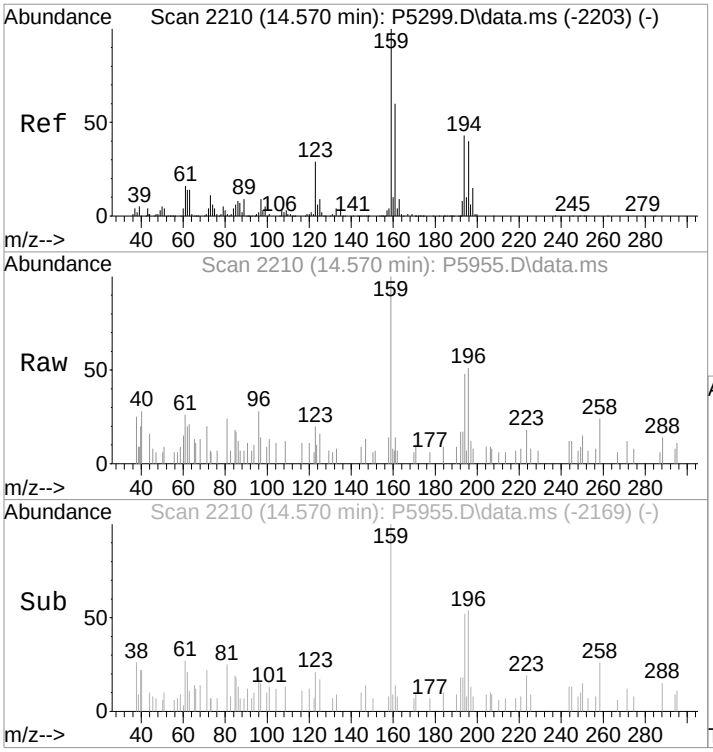


#112
Trielution Dichlorotoluene
Concen: 0.22 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion:125 Resp: 2743

Ion	Ratio	Lower	Upper
125	100		
160	54.6	33.6	50.4#
89	35.8	25.8	38.8

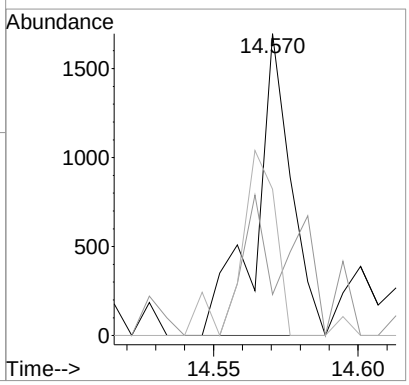


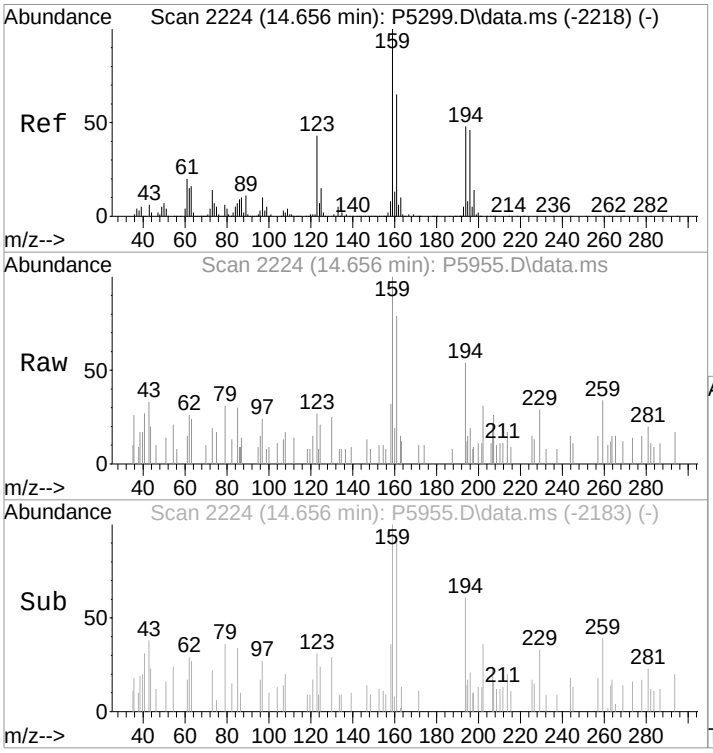


#119
2,4,5-Trichlorotolene
Concen: 0.25 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion:159 Resp: 1464

Ion	Ratio	Lower	Upper
159	100		
161	13.6	48.1	72.1#
194	48.4	34.5	51.7

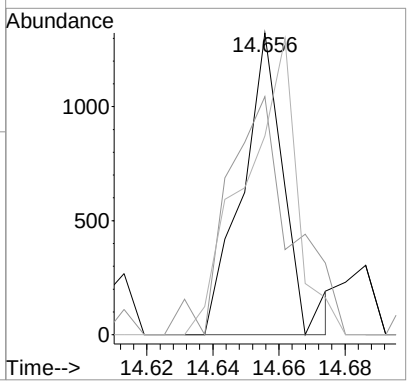




#120
2,3,6-Trichlorotoluene
Concen: 0.22 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P5955.D
Acq: 26 Oct 2016 11:22 am

Tgt Ion:159 Resp: 1173

Ion	Ratio	Lower	Upper
159	100		
161	78.9	52.3	78.5#
194	65.9	38.6	57.8#

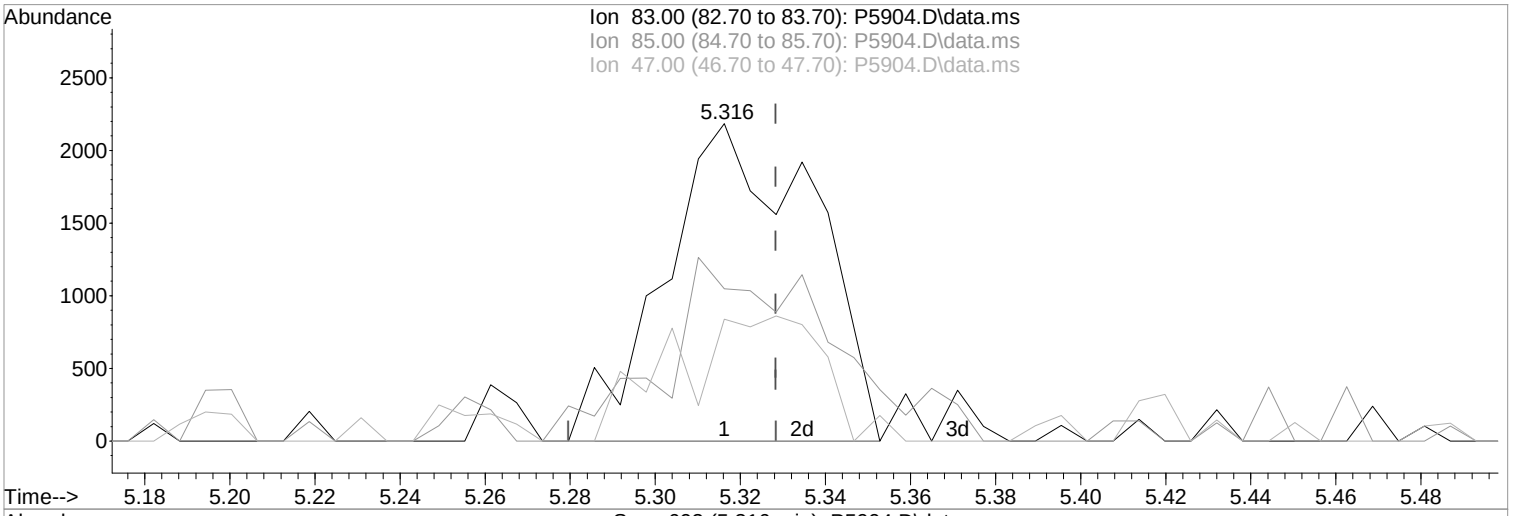


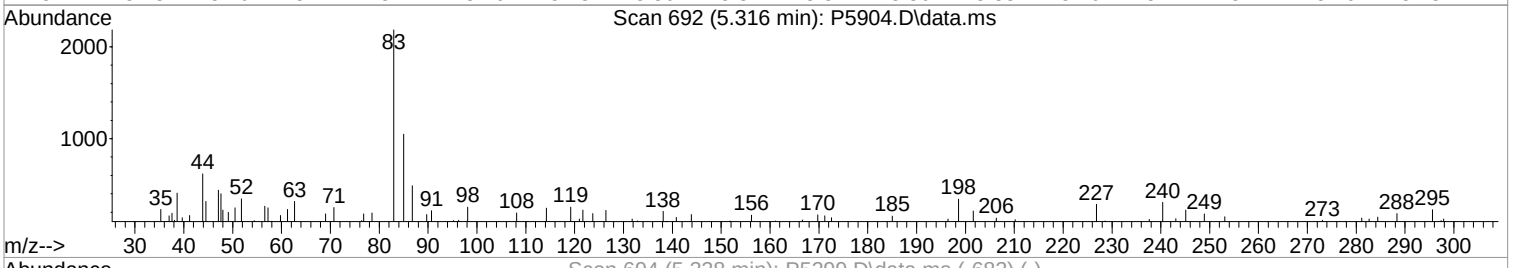
1st 10/25/16
2nd 10/25/16

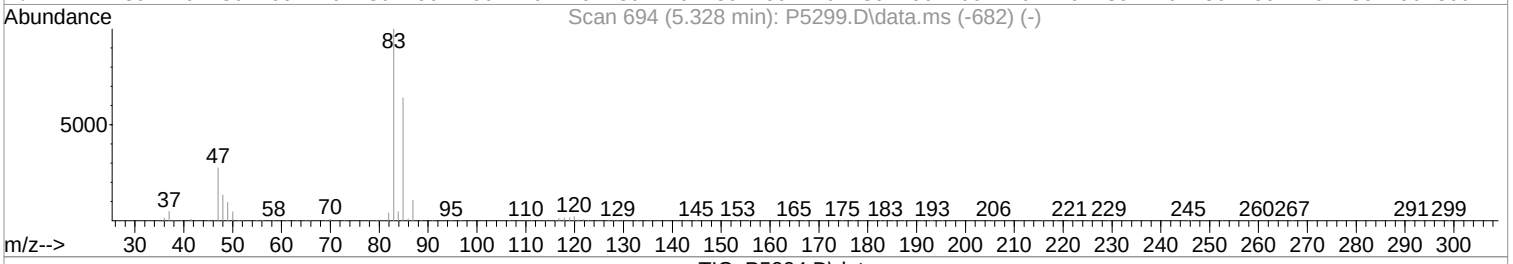
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5904.D
Acq On : 24 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-004|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 24 17:39:59 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5904.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.53 ppb m

response 5324

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	48.01
47.00	27.40	20.05
0.00	0.00	0.00

Manual Integration:

After

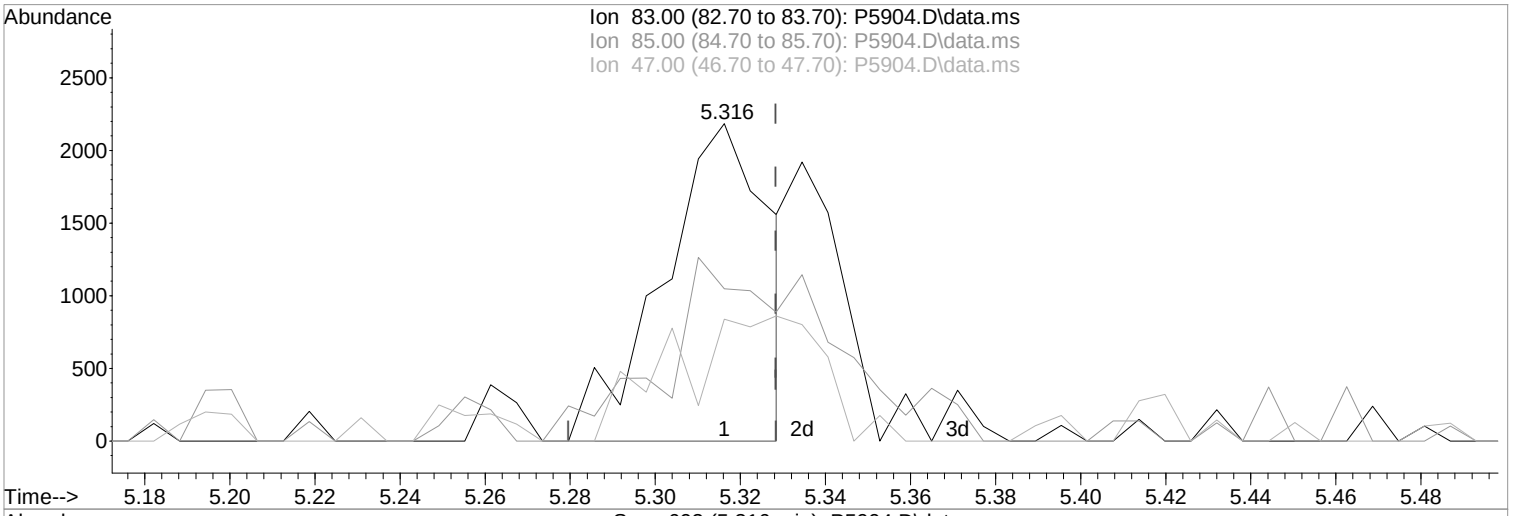
Split Peak

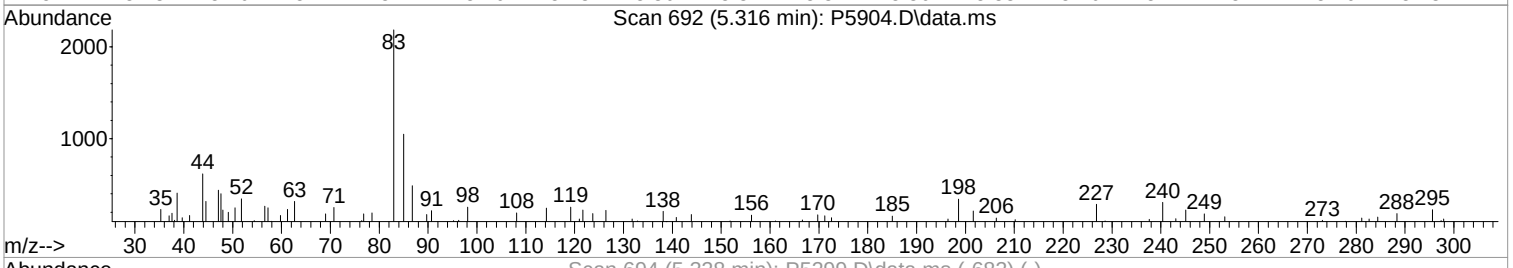
10/25/16

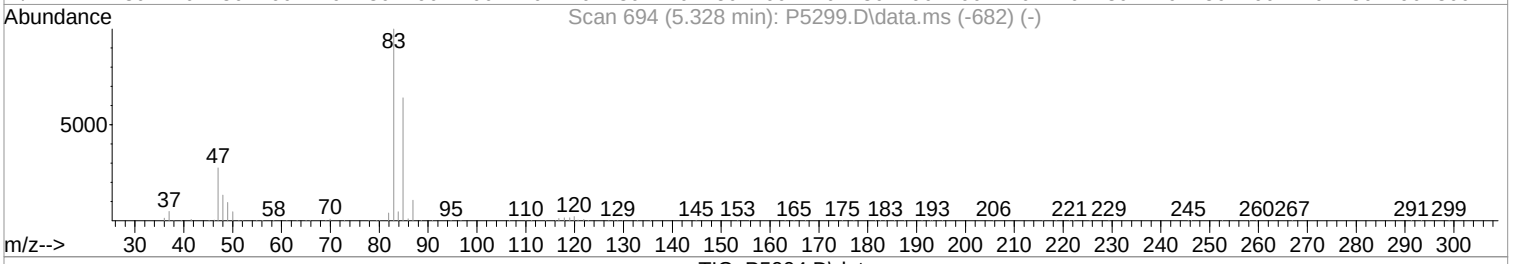
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5904.D
Acq On : 24 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-004|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 24 17:39:59 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5904.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.37 ppb

response 3760

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	48.01
47.00	27.40	38.40
0.00	0.00	0.00

Manual Integration:

Before

10/25/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5904.D
Acq On : 24 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-004|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 25 12:01:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M repeat 5.0
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

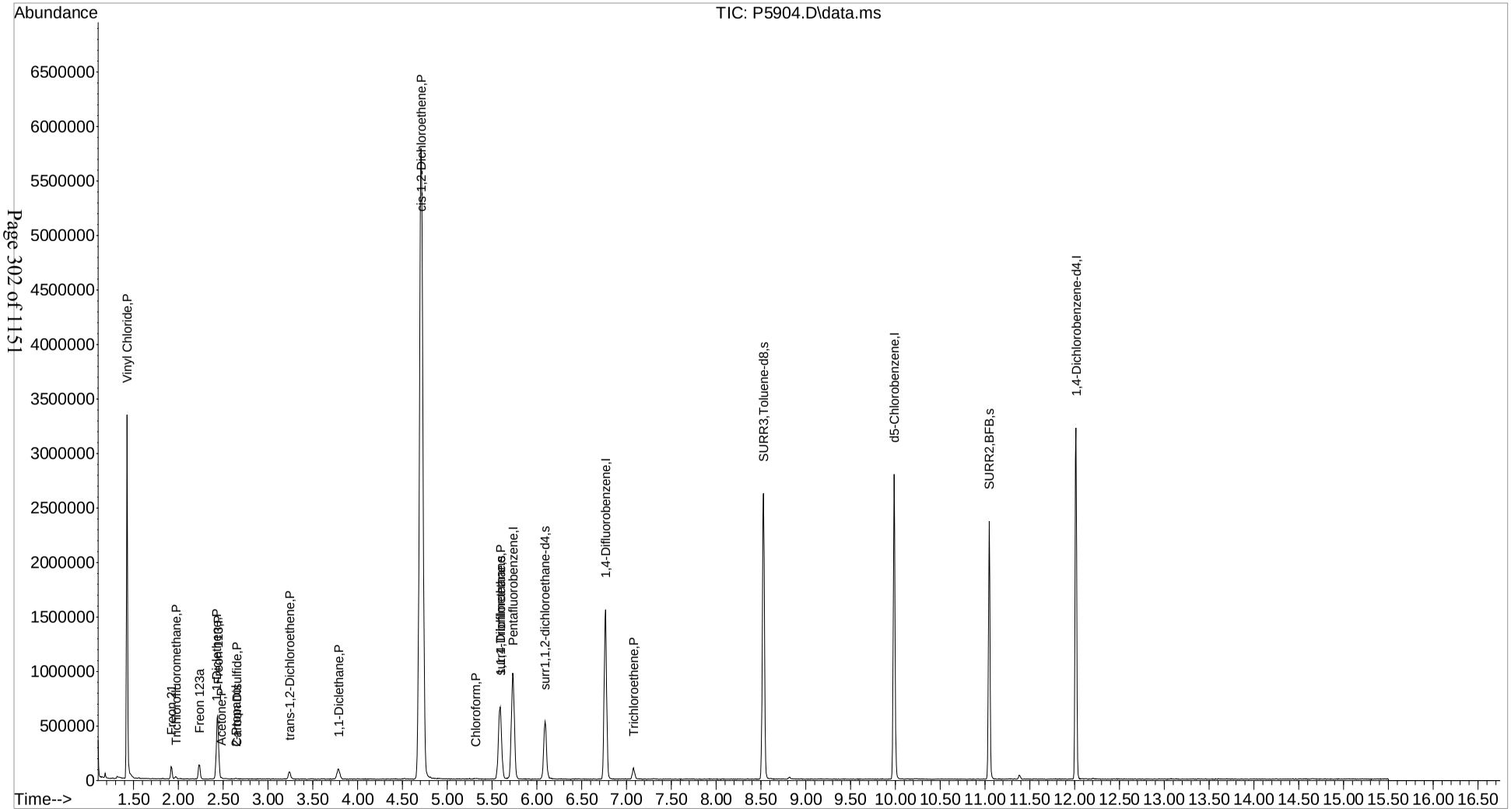
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.737	168	799042	50.00	ppb		0.00	
43) 1,4-Difluorobenzene	6.767	114	1303547	50.00	ppb		0.00	
71) d5-Chlorobenzene	9.986	117	1252029	50.00	ppb		0.00	
86) 1,4-Dichlorobenzene-d4	12.016	152	648677	50.00	ppb		0.00	
System Monitoring Compounds								
45) surr4,Dibrflmethane	5.591	113	380214	54.65	ppb		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.30%					
48) surr1,1,2-dichloroetha...	6.090	65	410199	51.90	ppb		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.80%					
65) SURR3,Toluene-d8	8.529	98	1618504	56.77	ppb		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.54%					
70) SURR2,BFB	11.047	95	609148	54.77	ppb		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.54%					
Target Compounds							Qvalue	
4) Vinyl Chloride	1.427	62	1816482	287.34	ppb		97	E-Over Calibration
7) Freon 21	1.921	67	71562	8.55	ppb		93	
8) Trichlorofluoromethane	1.975	101	11282	1.54	ppb		97	
10) Freon 123a	2.231	67	49159	9.66	ppb	#	78	
13) 1,1-Diclethene	2.427	96	11295	2.03	ppb		89	
14) Freon 113	2.439	101	218416	37.07	ppb		87	
15) Acetone	2.481	43	7601	5.83	ppb		87	
16) 2-Propanol	2.640	45	3038	10.93	ppb	#	34	
18) Carbon Disulfide	2.646	76	5371	0.31	ppb		87	
26) trans-1,2-Dichloroethene	3.243	96	25356	4.06	ppb	#	75	
28) 1,1-Diclethane	3.786	63	105313	10.15	ppb		88	
34) cis-1,2-Dichloroethene	4.713	96	3784896	593.60	ppb		89	E-Over Calibration
40) Chloroform	5.316	83	5324m	0.53	ppb			
41) 1,1,1-Trichloroethane	5.591	97	136507	14.65	ppb		88	
54) Trichloroethene	7.078	130	33397	4.85	ppb		91	

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

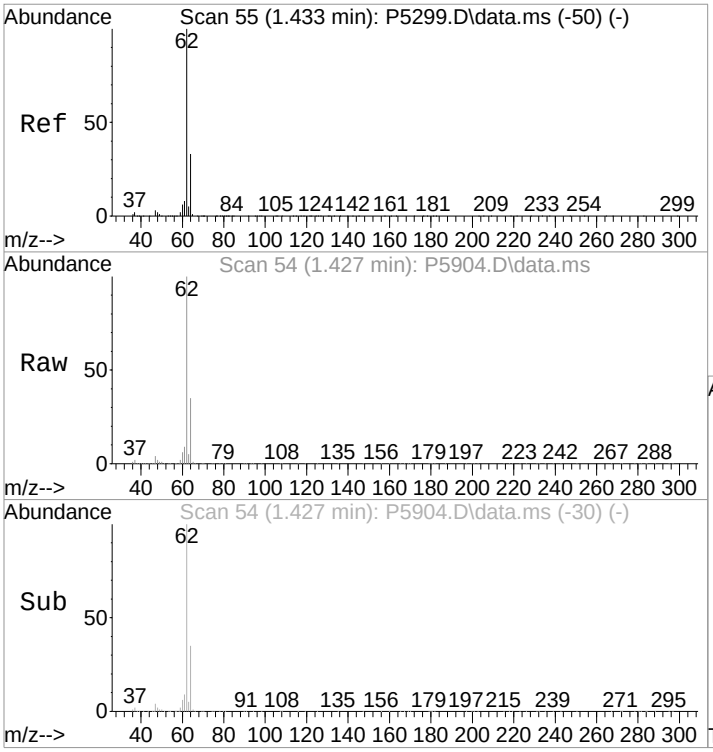
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5904.D
Acq On : 24 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-004|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 25 12:01:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



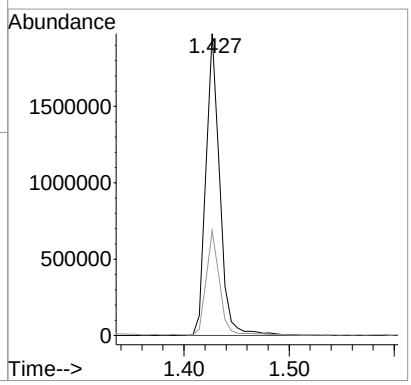
1st 10/25/16
2nd 10/25/16

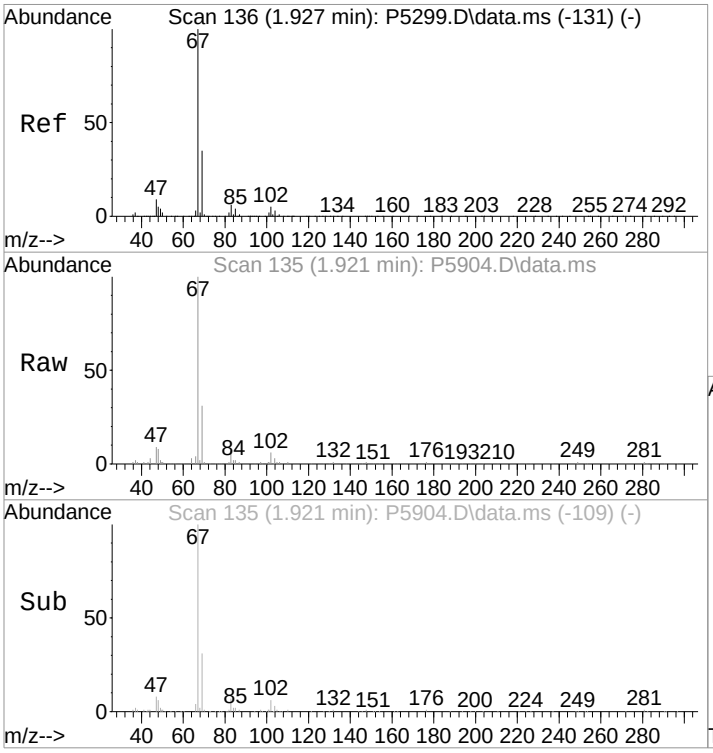


#4
Vinyl Chloride
Concen: 287.34 ppb
RT: 1.427 min Scan# 54
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 62 Resp: 1816482

Ion	Ratio	Lower	Upper
62	100		
64	34.7	13.1	53.1

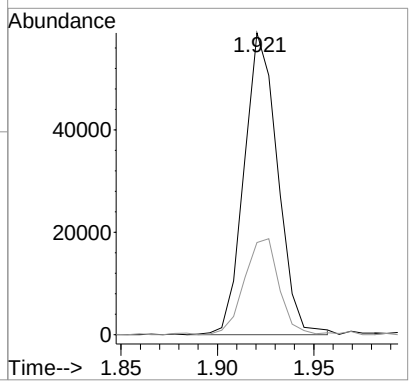


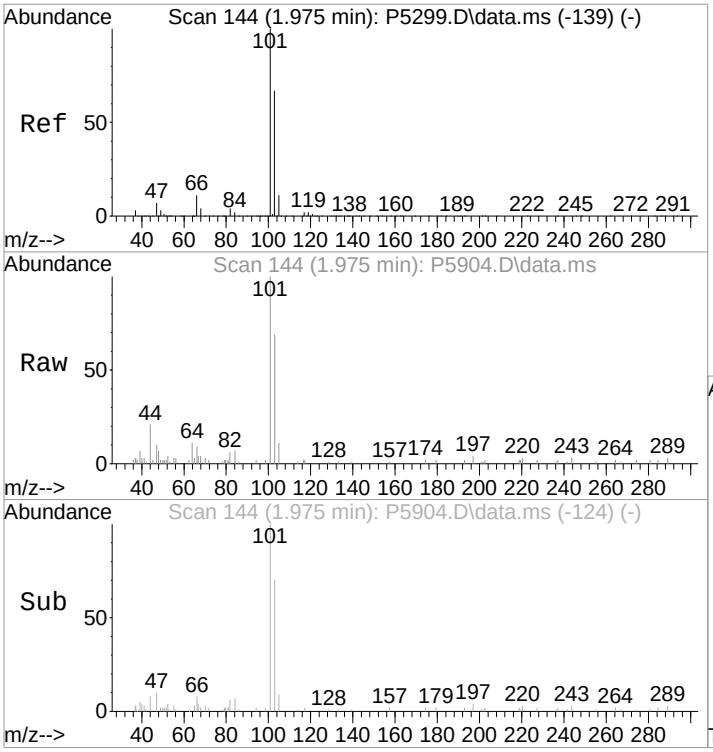


#7
Freon 21
Concen: 8.55 ppb
RT: 1.921 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 67 Resp: 71562

Ion	Ratio	Lower	Upper
67	100		
69	30.6	14.4	54.4

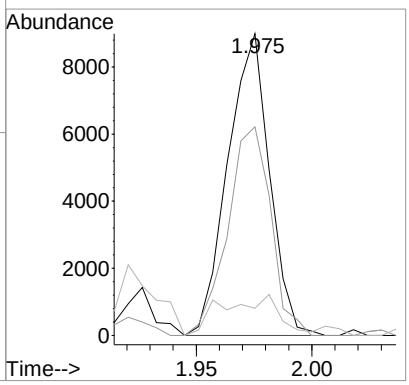


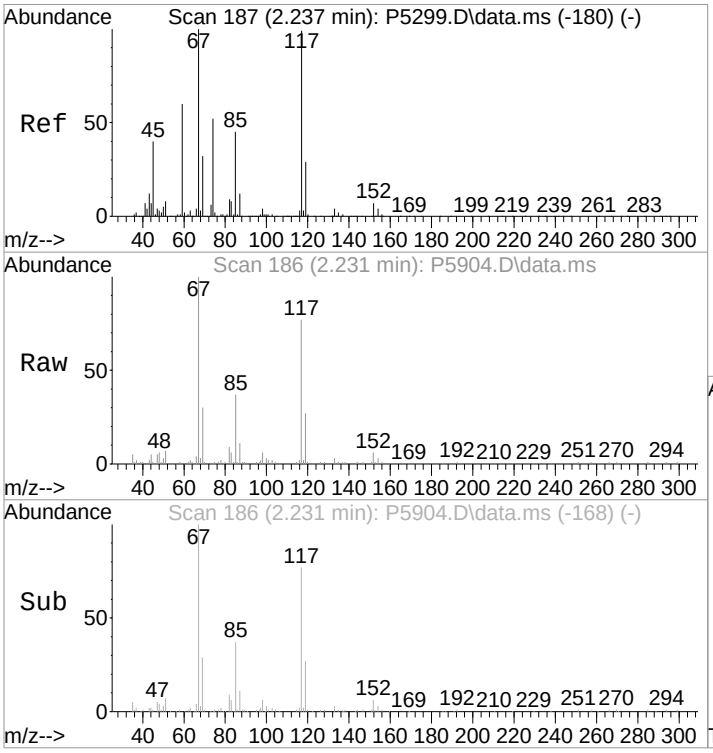


#8
Trichlorofluoromethane
Concen: 1.54 ppb
RT: 1.975 min Scan# 144
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion:101 Resp: 11282

Ion	Ratio	Lower	Upper
101	100		
103	69.1	47.3	87.3
66	9.1	0.0	31.5

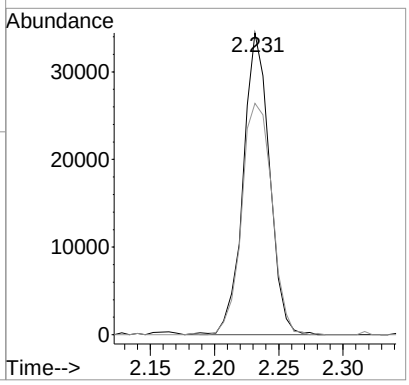


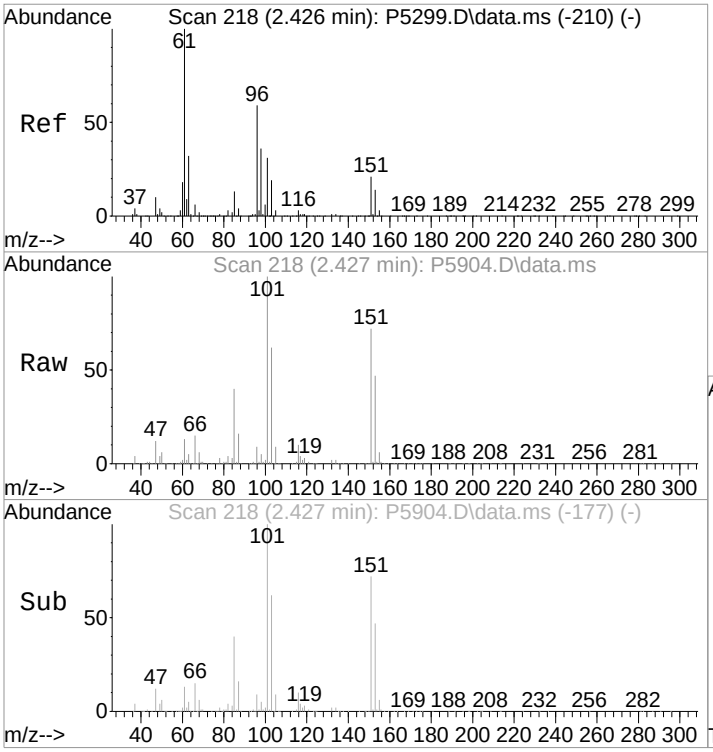


#10
Freon 123a
Concen: 9.66 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 67 Resp: 49159

Ion	Ratio	Lower	Upper
67	100		
117	76.7	78.8	118.8#

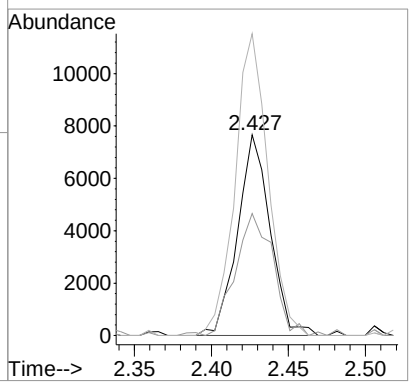


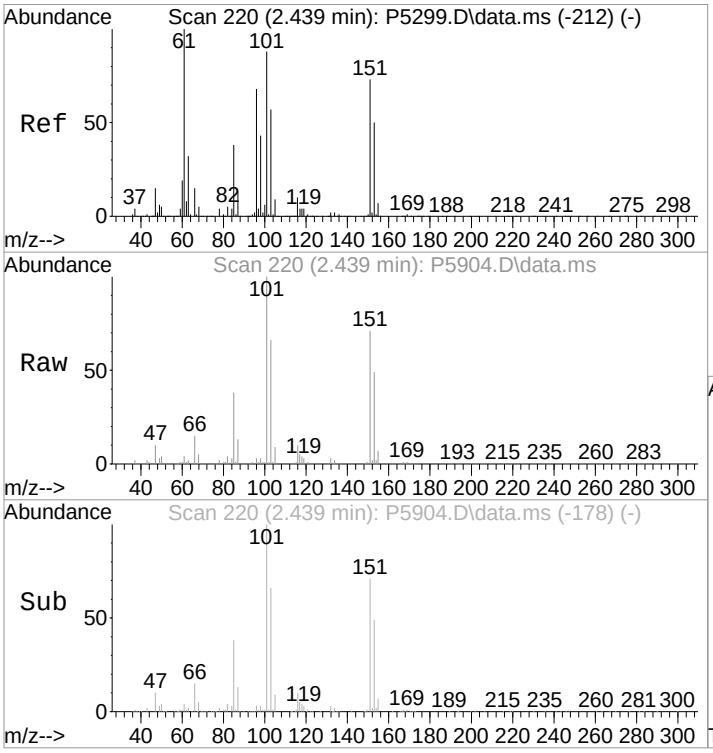


#13
1,1-Diclethene
Concen: 2.03 ppb
RT: 2.427 min Scan# 218
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 96 Resp: 11295

Ion	Ratio	Lower	Upper
96	100		
98	60.7	41.8	81.8
61	150.4	150.1	190.1

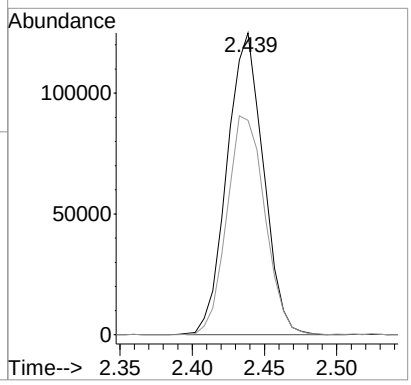


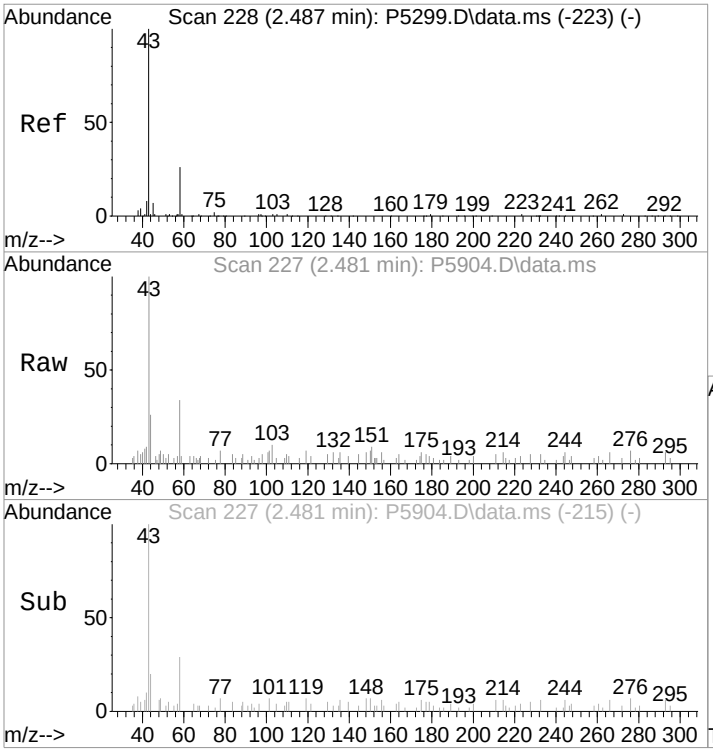


#14
Freon 113
Concen: 37.07 ppb
RT: 2.439 min Scan# 220
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion:101 Resp: 218416

Ion	Ratio	Lower	Upper
101	100		
151	71.1	62.6	102.6

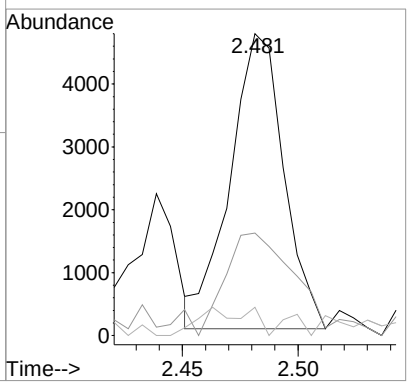


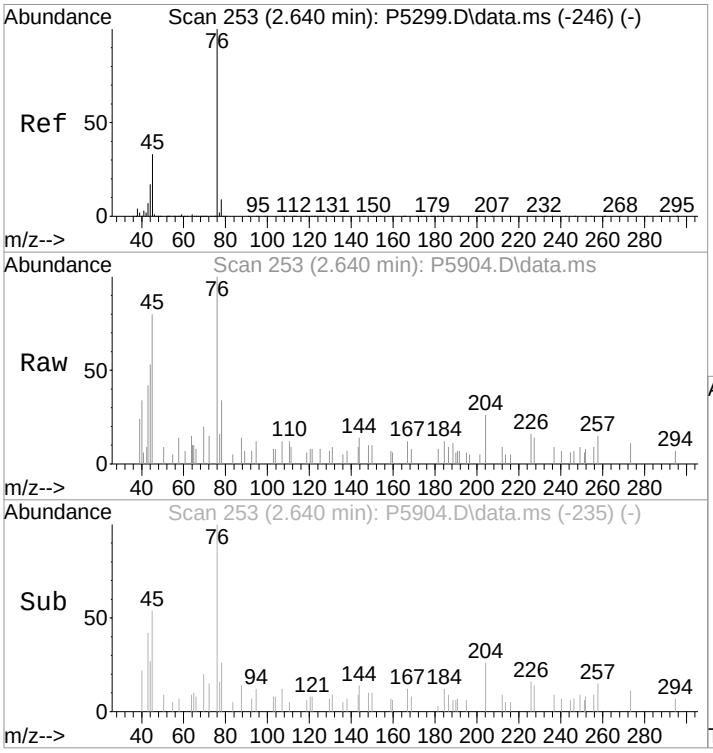


#15
Acetone
Concen: 5.83 ppb
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 43 Resp: 7601

Ion	Ratio	Lower	Upper
43	100		
58	33.9	5.3	45.3
42	9.3	0.0	28.7

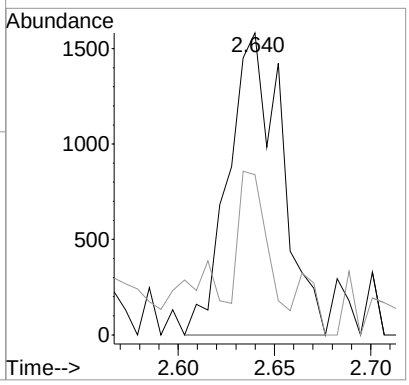


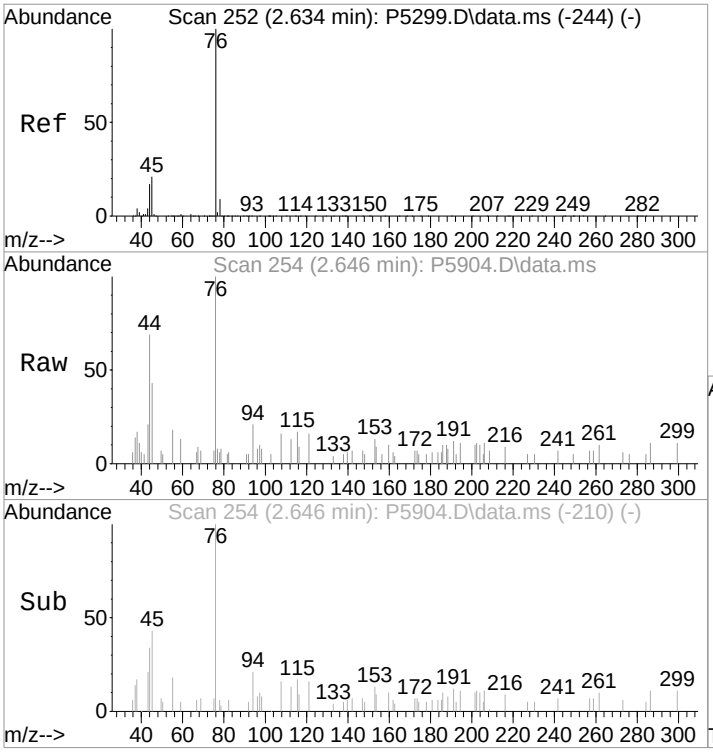


#16
2-Propanol
Concen: 10.93 ppb
RT: 2.640 min Scan# 253
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 45 Resp: 3038

Ion	Ratio	Lower	Upper
45	100		
43	53.0	1.6	41.6#

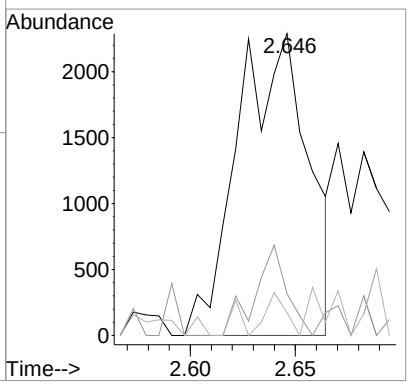


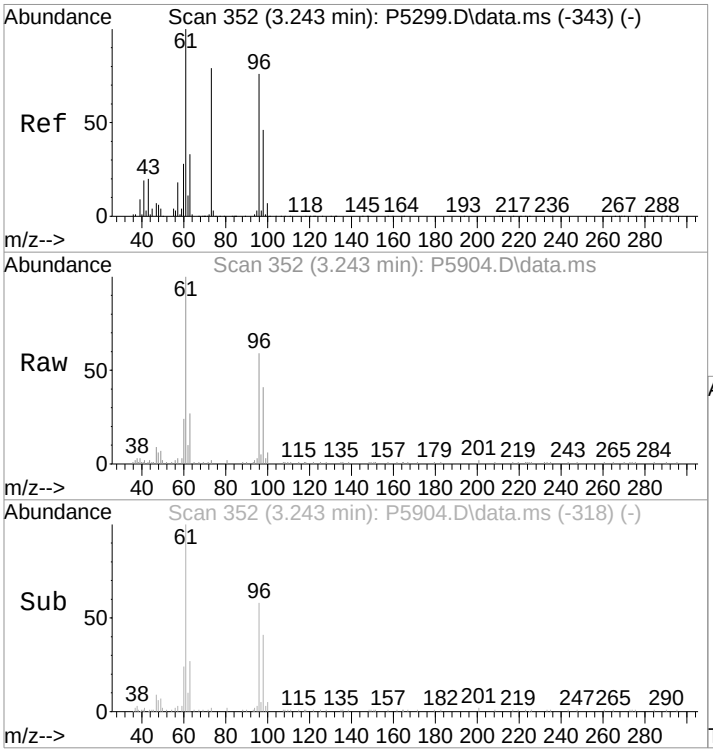


#18
Carbon Disulfide
Concen: 0.31 ppb
RT: 2.646 min Scan# 254
Delta R.T. 0.012 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 76 Resp: 5371

Ion	Ratio	Lower	Upper
76	100		
78	13.8	0.0	29.3
77	7.6	0.0	22.5

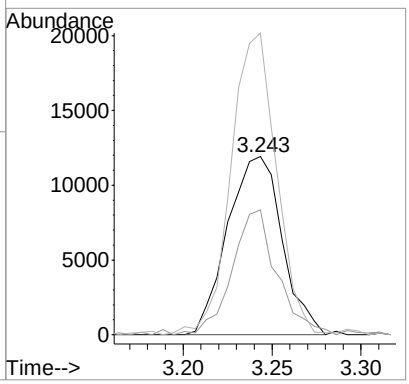


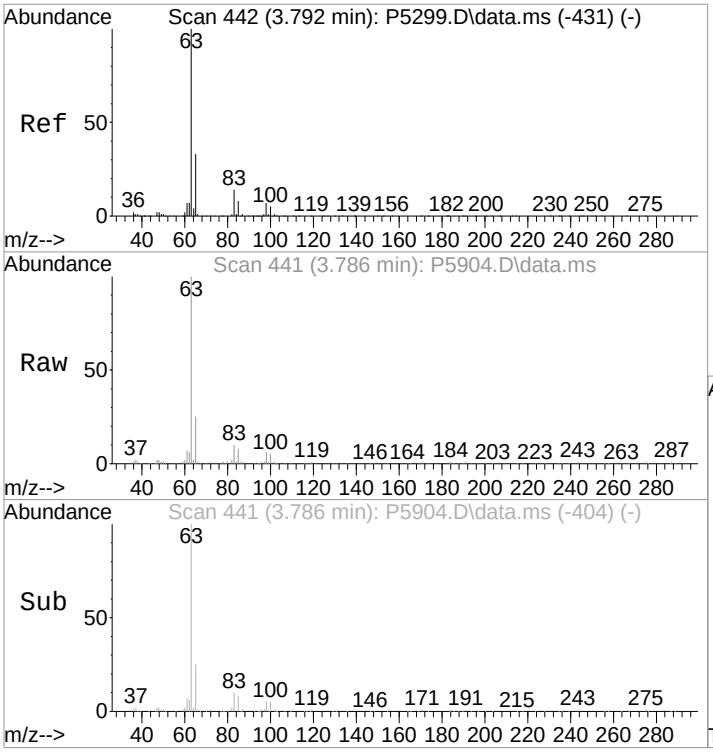


#26
trans-1,2-Dichloroethene
Concen: 4.06 ppb
RT: 3.243 min Scan# 352
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 96 Resp: 25356

Ion	Ratio	Lower	Upper
96	100		
98	70.1	41.0	81.0
61	169.4	112.4	152.4#

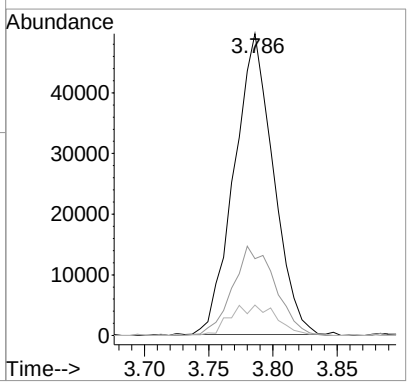


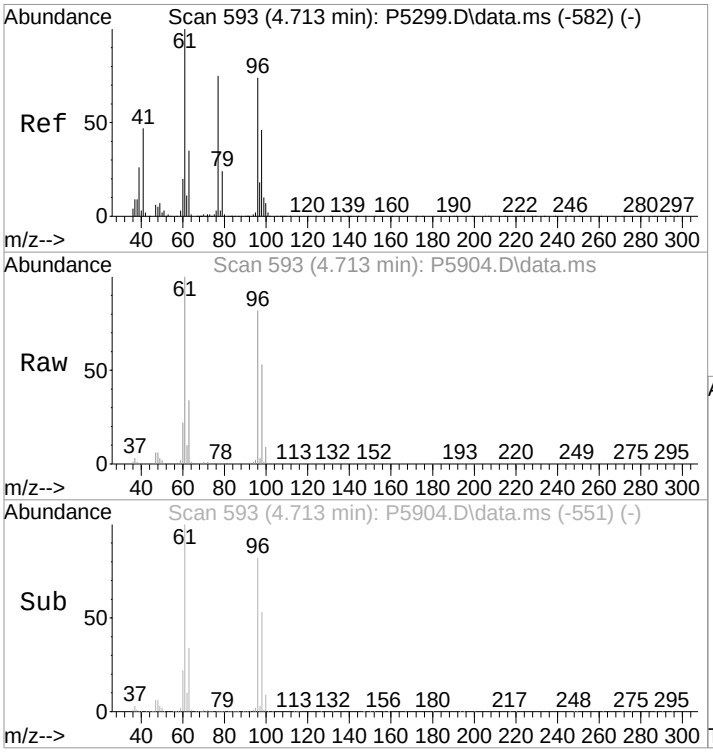


#28
1,1-Diclethane
Concen: 10.15 ppb
RT: 3.786 min Scan# 441
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 63 Resp: 105313

Ion	Ratio	Lower	Upper
63	100		
65	25.4	12.9	52.9
83	10.0	0.0	33.5

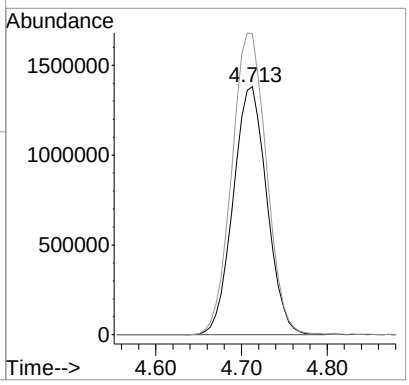


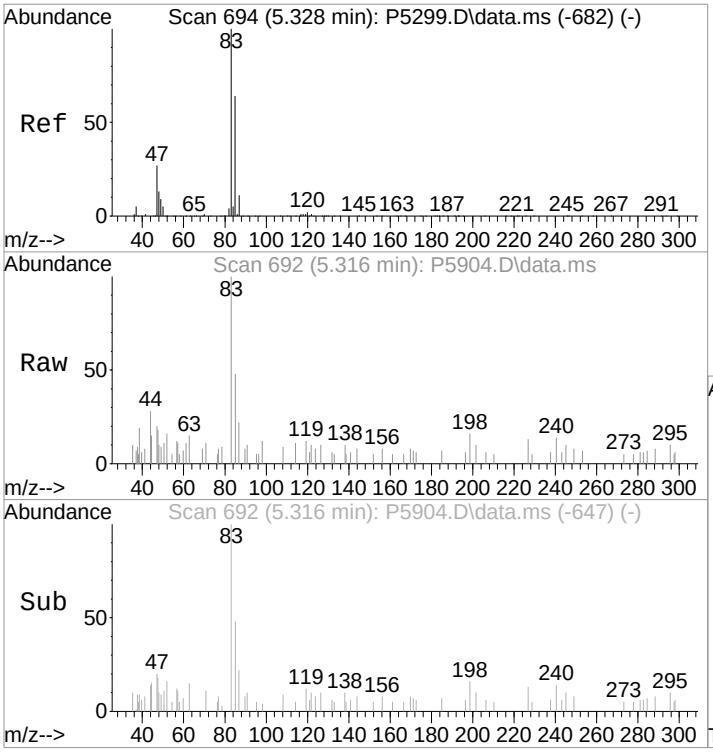


#34
cis-1,2-Dichloroethene
Concen: 593.60 ppb
RT: 4.713 min Scan# 593
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 96 Resp: 3784896

Ion	Ratio	Lower	Upper
96	100		
61	121.3	114.6	154.6

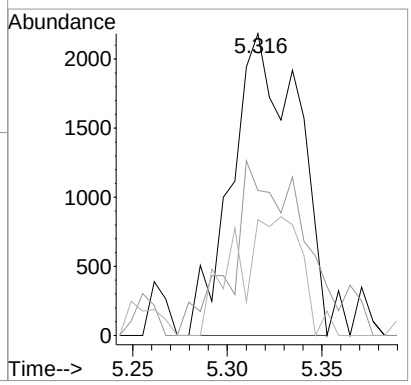


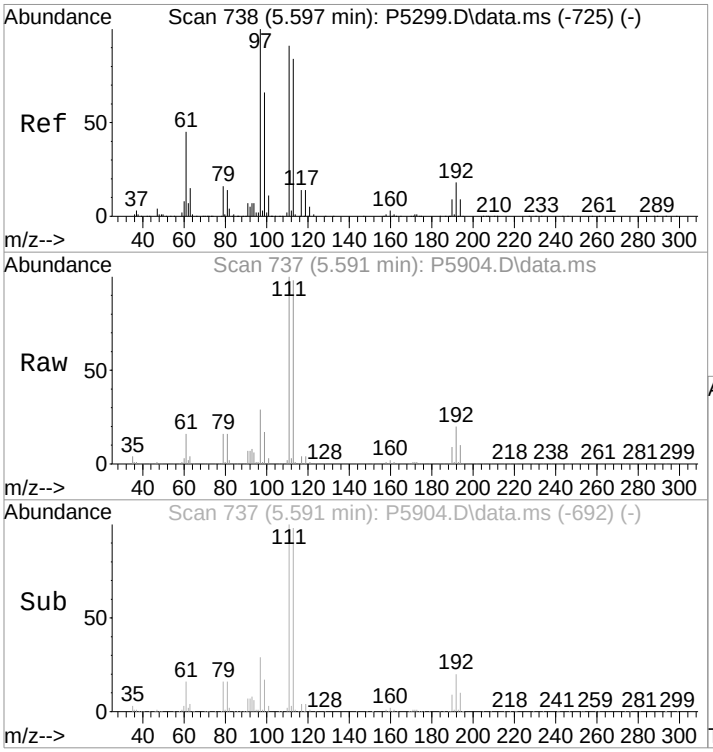


#40
Chloroform
Concen: 0.53 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 83 Resp: 5324

Ion	Ratio	Lower	Upper
83	100		
85	48.0	44.1	84.1
47	20.0	7.4	47.4

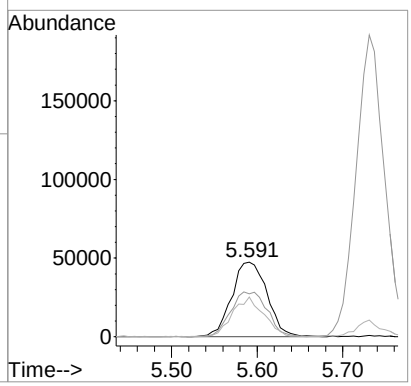


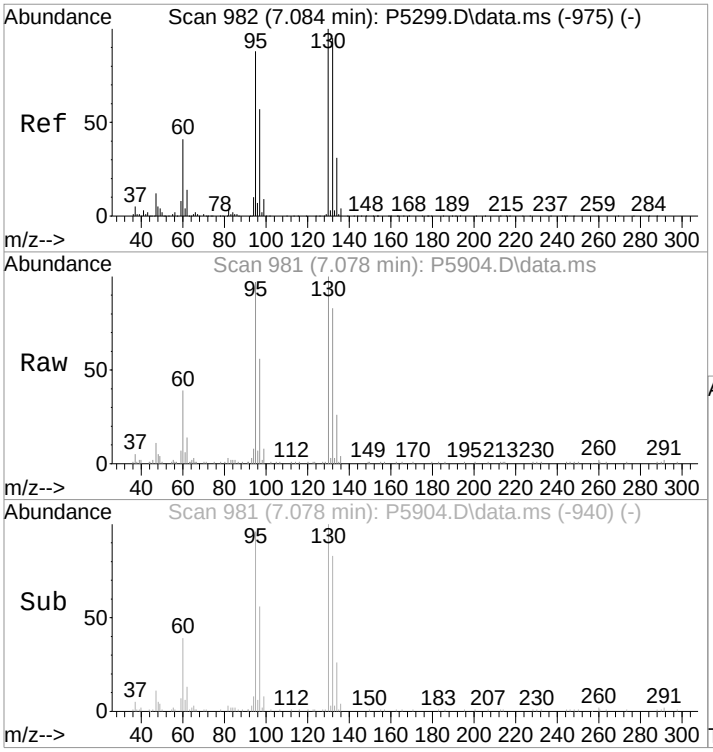


#41
1,1,1-Trichloroethane
Concen: 14.65 ppb
RT: 5.591 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion: 97 Resp: 136507

Ion	Ratio	Lower	Upper
97	100		
99	57.4	46.2	86.2
61	53.5	25.3	65.3

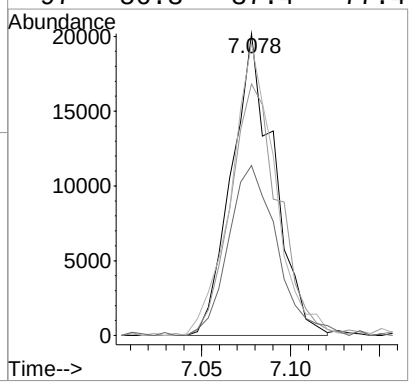




#54
Trichloroethene
Concen: 4.85 ppb
RT: 7.078 min Scan# 981
Delta R.T. 0.000 min
Lab File: P5904.D
Acq: 24 Oct 2016 5:23 pm

Tgt Ion:130 Resp: 33397

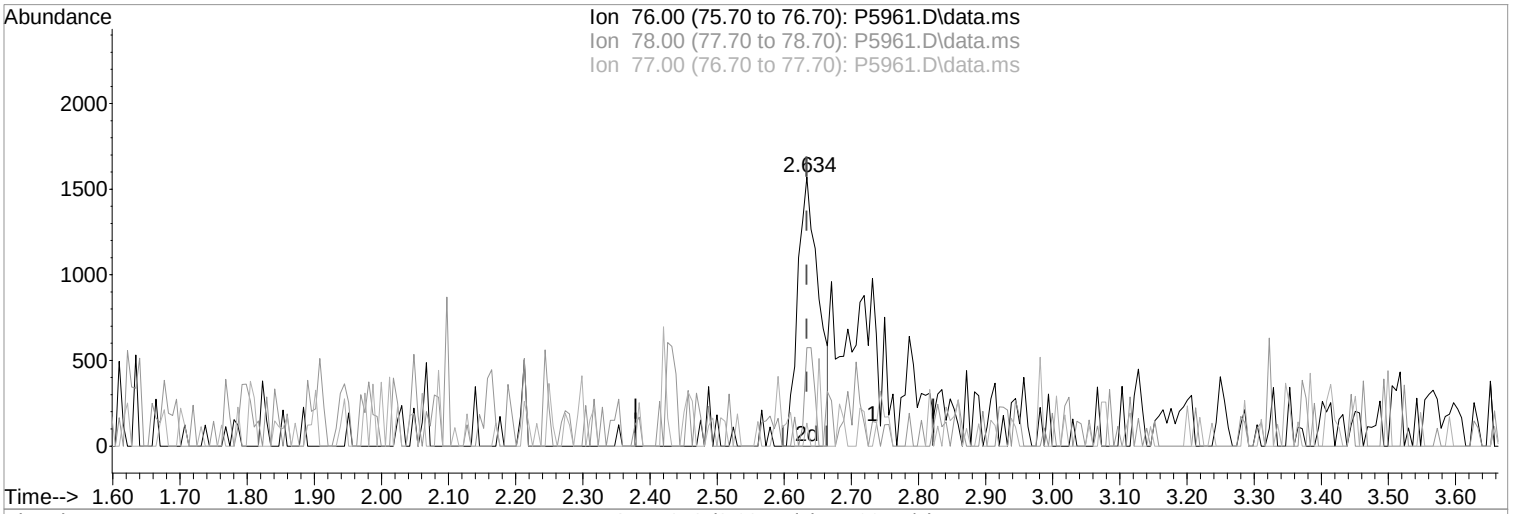
Ion	Ratio	Lower	Upper
130	100		
132	83.3	75.2	115.2
95	96.8	68.1	108.1
97	56.3	37.4	77.4

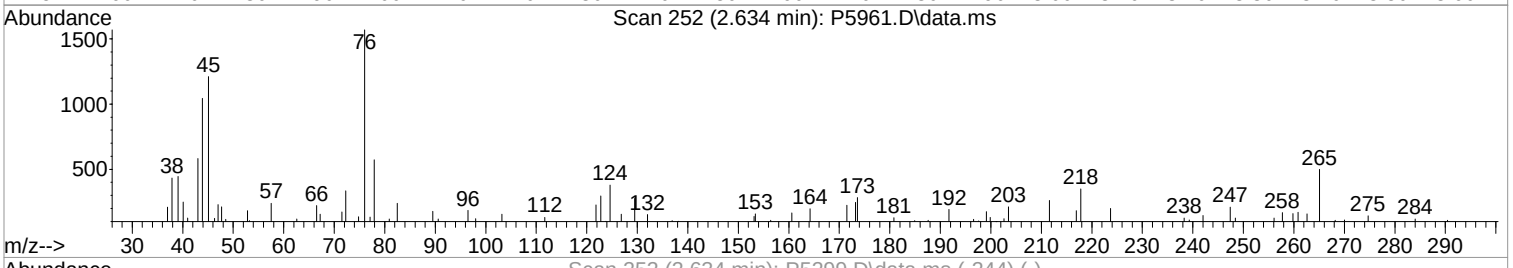


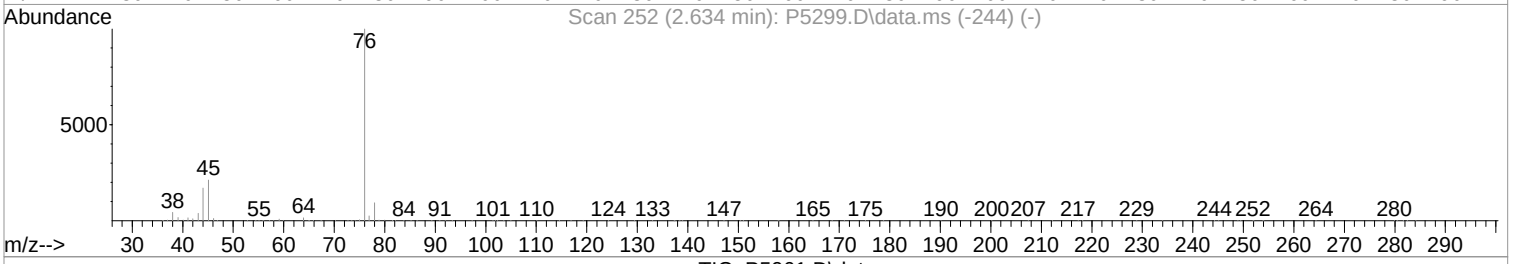
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5961.D
Acq On : 26 Oct 2016 2:23 pm
Operator : K.Ruest
Sample : R1611185-004|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:39:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5961.D\data.ms

(18) Carbon Disulfide (P)

2.634min (-0.000) 0.20 ppb m

response 3401

Ion	Exp%	Act%
76.00	100	100
78.00	9.30	36.54#
77.00	2.50	8.47
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

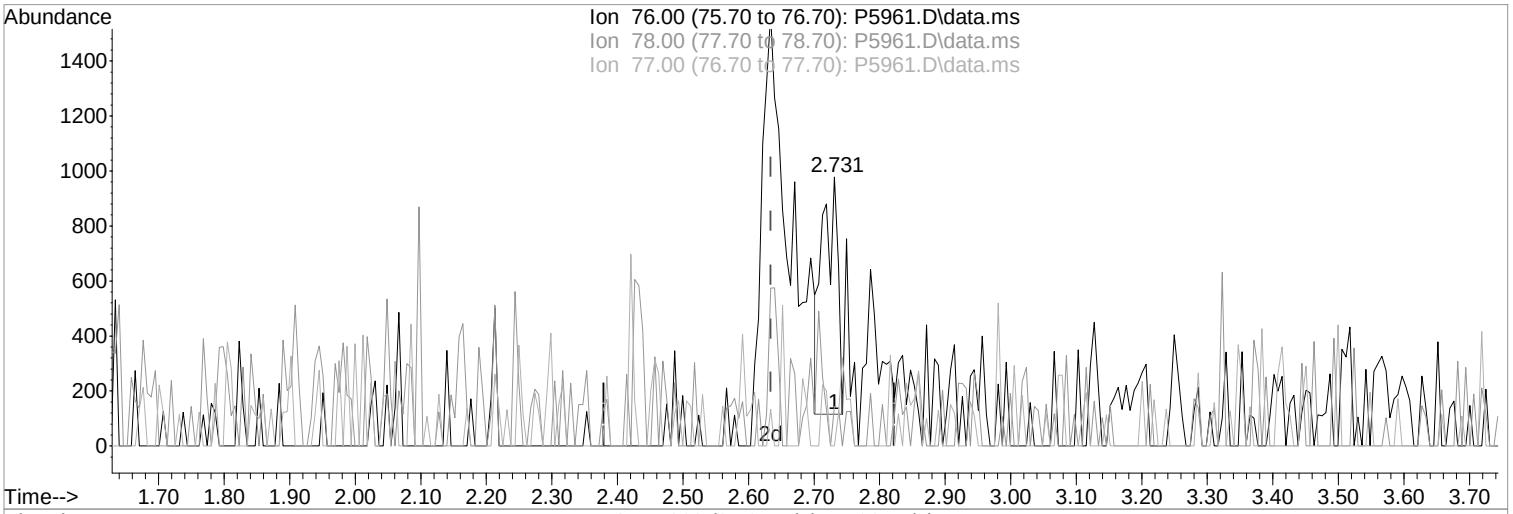
10/26/16

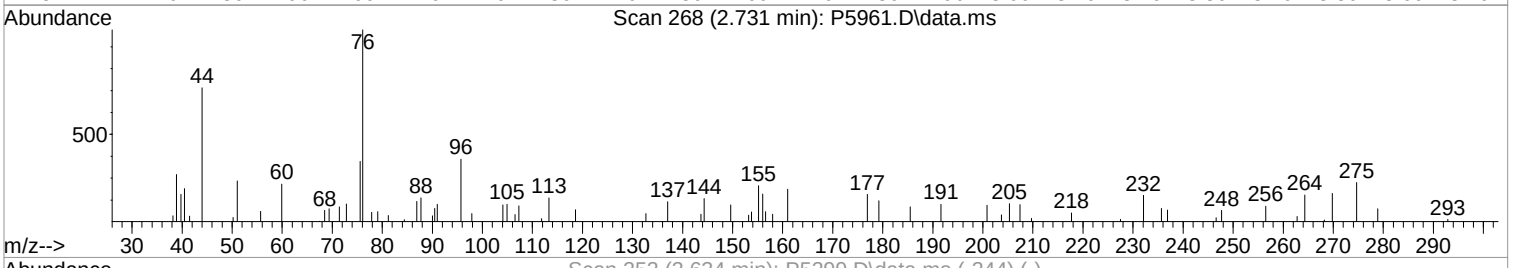
1st 10/26/16
2nd 10/27/16

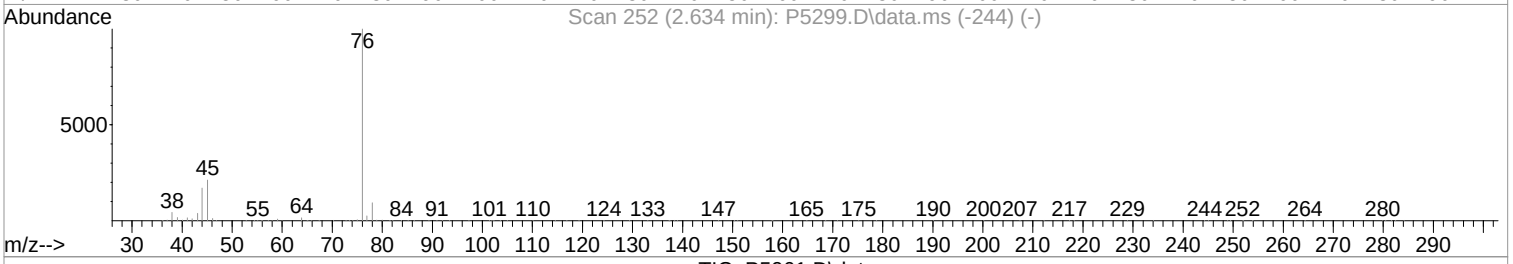
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5961.D
Acq On : 26 Oct 2016 2:23 pm
Operator : K.Ruest
Sample : R1611185-004|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:39:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5961.D\data.ms

(18) Carbon Disulfide (P)

2.731min (+0.097) 0.08 ppb

response 1402

Ion	Exp%	Act%
76.00	100	100
78.00	9.30	14.62
77.00	2.50	0.00
0.00	0.00	0.00

Manual Integration:

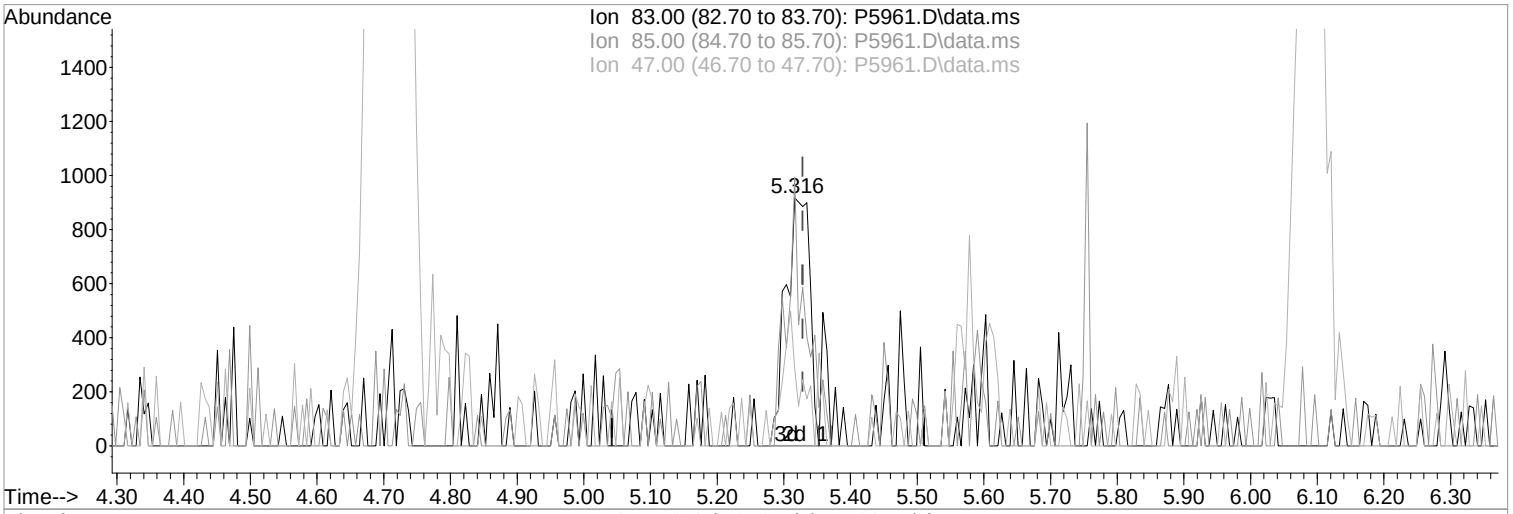
Before

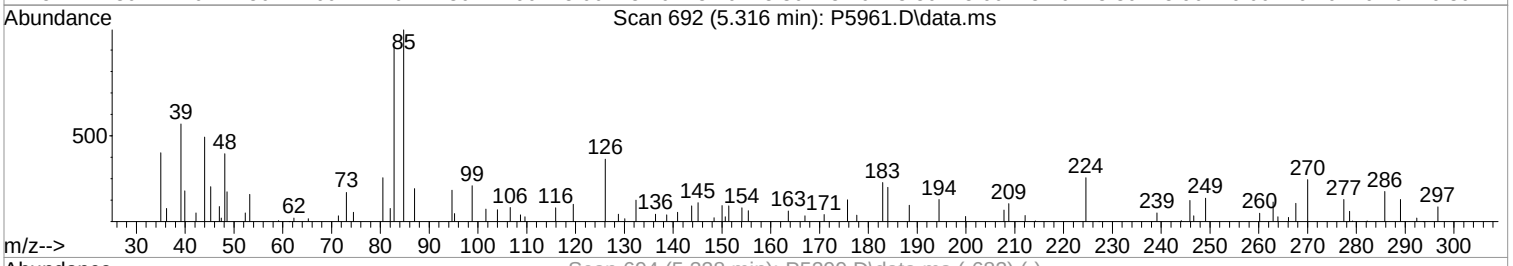
10/26/16

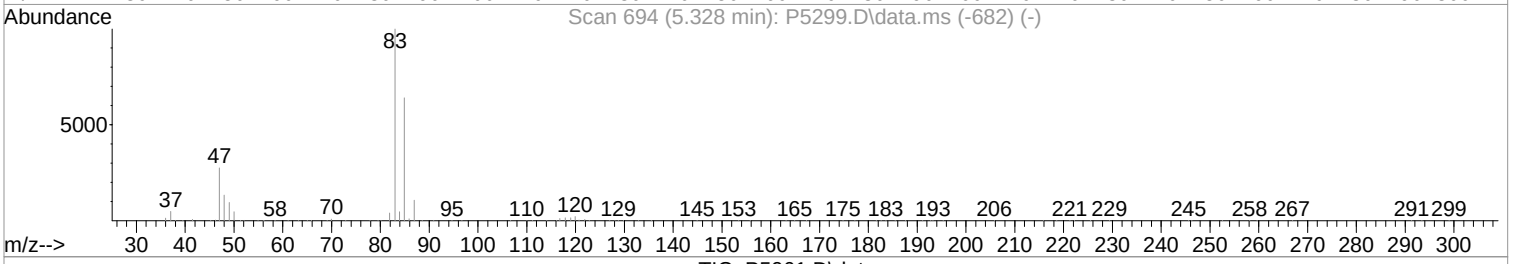
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5961.D
Acq On : 26 Oct 2016 2:23 pm
Operator : K.Ruest
Sample : R1611185-004|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:39:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5961.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.26 ppb m

response 2608

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	108.51#
47.00	27.40	18.54
0.00	0.00	0.00

Manual Integration:

After

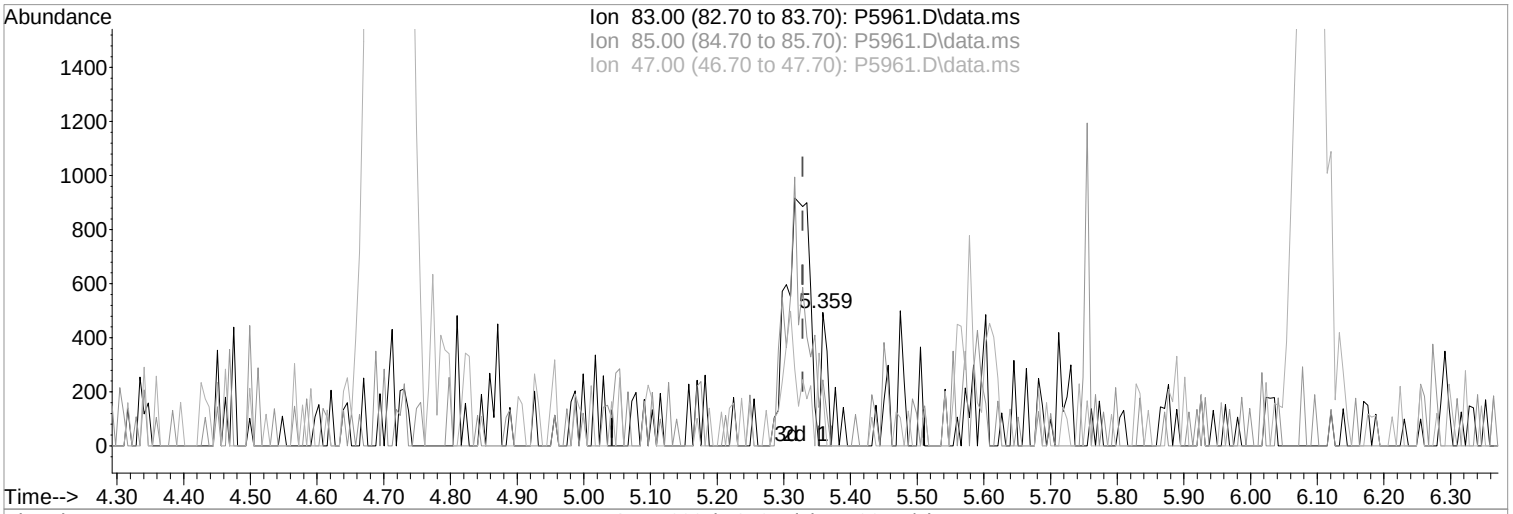
Split Peak

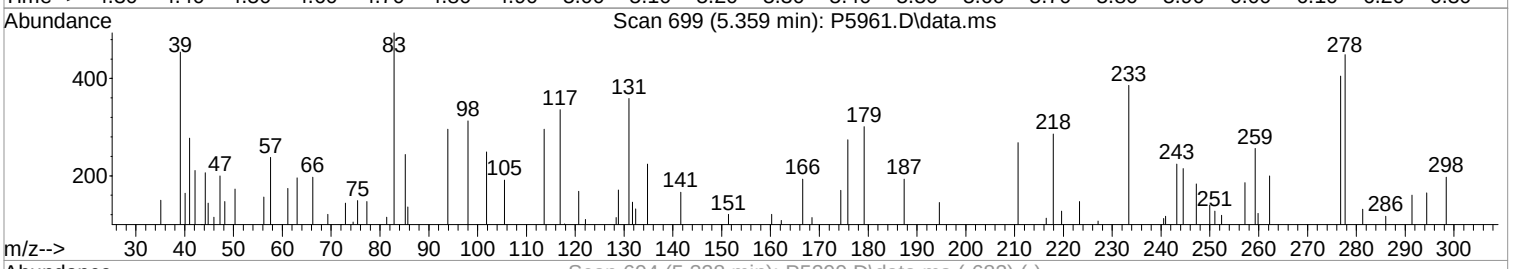
10/26/16

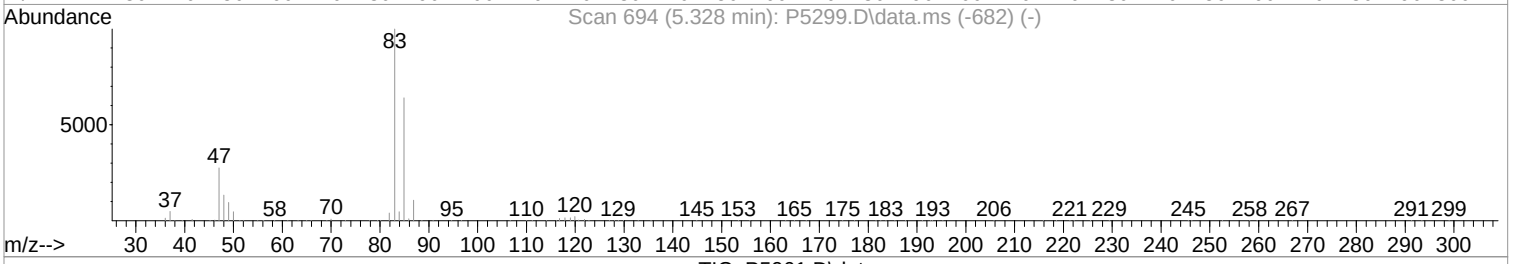
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5961.D
Acq On : 26 Oct 2016 2:23 pm
Operator : K.Ruest
Sample : R1611185-004|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:39:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5961.D\data.ms

(40) Chloroform (P)

5.359min (+0.030) 0.03 ppb

response 309

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	76.92
47.00	27.40	40.49
0.00	0.00	0.00

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5961.D
Acq On : 26 Oct 2016 2:23 pm
Operator : K.Ruest
Sample : R1611185-004|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:43:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

dil

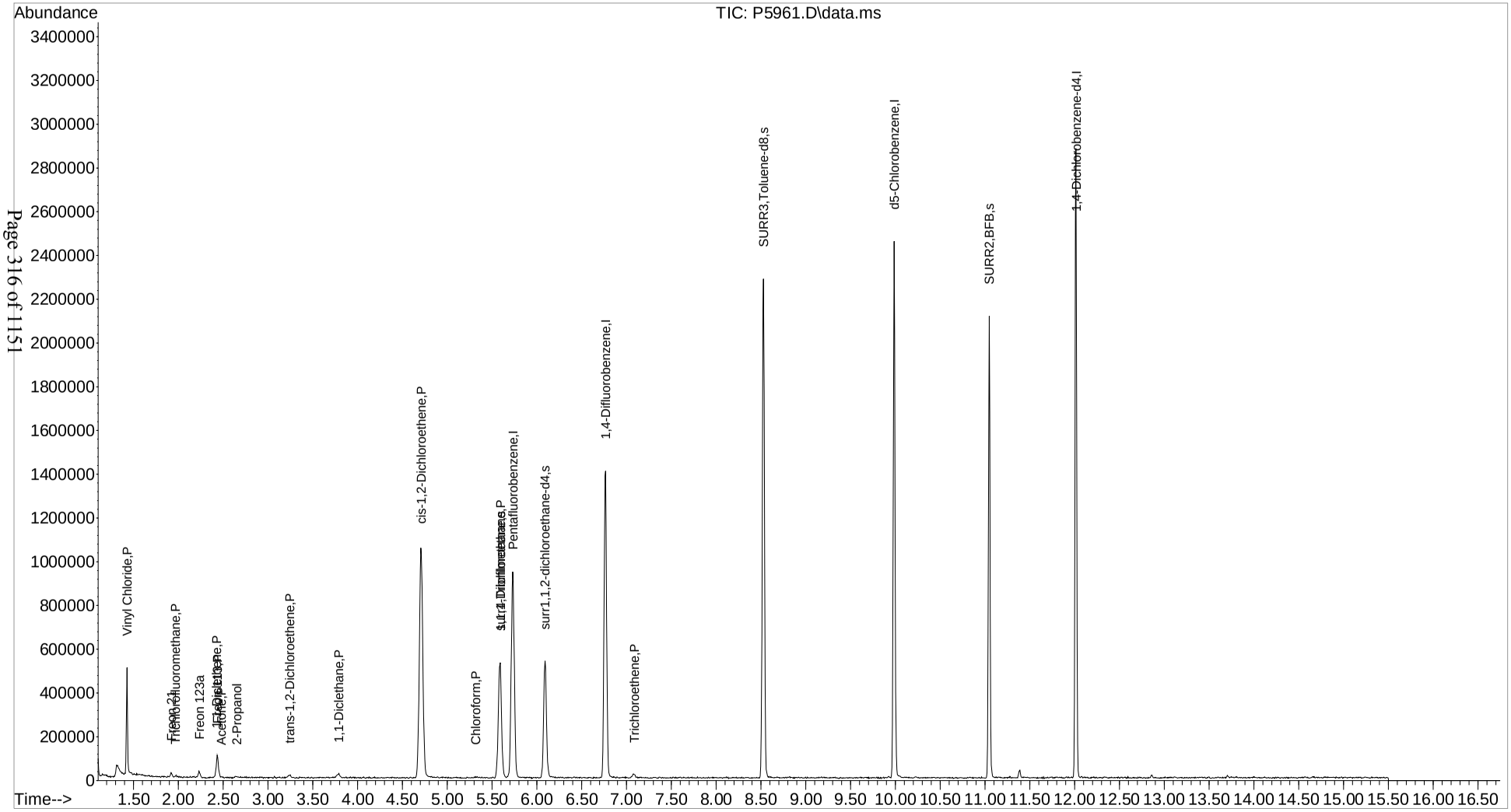
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	789478	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1216905	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1110612	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	566458	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	375064	57.75	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 115.50%				
48) surr1,1,2-dichloroetha...	6.090	65	418350	56.70	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 113.40%				
65) SURR3,Toluene-d8	8.529	98	1417538	53.26	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.52%				
70) SURR2,BFB	11.047	95	540806	52.09	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.18%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	256799	41.11	ppb		94
7) Freon 21	1.920	67	12787	1.55	ppb		86
8) Trichlorofluoromethane	1.969	101	2331	0.32	ppb	#	68
10) Freon 123a	2.231	67	9611	1.91	ppb		94
13) 1,1-Diclethene	2.426	96	1836	0.33	ppb	#	52
14) Freon 113	2.432	101	37115	6.38	ppb	#	72
15) Acetone	2.481	43	2997	2.33	ppb		92
16) 2-Propanol	2.646	45	3764	13.71	ppb		72
26) trans-1,2-Dichloroethene	3.243	96	5361	0.87	ppb	#	73
28) 1,1-Diclethane	3.786	63	20229	1.97	ppb		86
34) cis-1,2-Dichloroethene	4.713	96	661480	105.00	ppb		90
40) Chloroform	5.316	83	2608m	0.26	ppb		
41) 1,1,1-Trichloroethane	5.590	97	22206	2.41	ppb	#	78
54) Trichloroethene	7.090	130	6174	0.96	ppb	#	64

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

Quantitation Report (QT Reviewed)

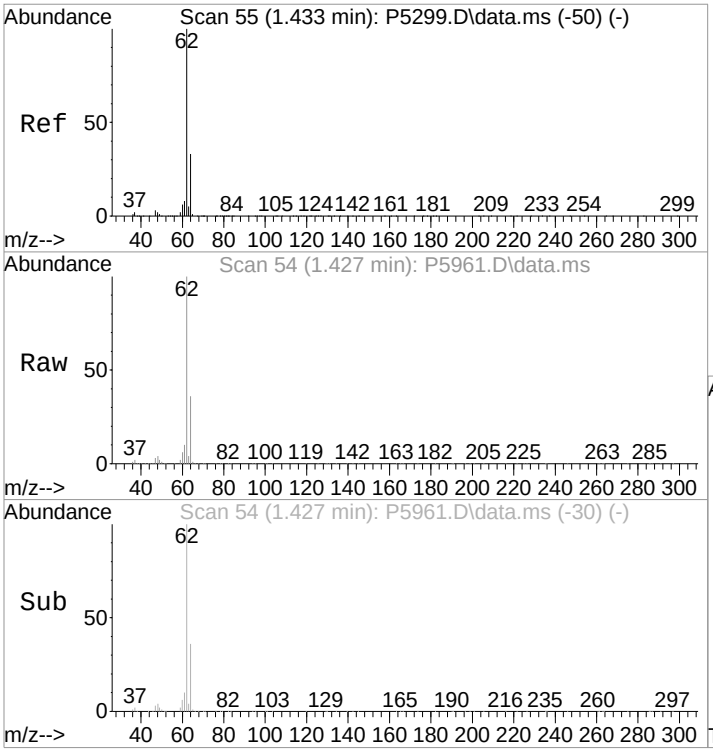
Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5961.D
Acq On : 26 Oct 2016 2:23 pm
Operator : K.Ruest
Sample : R1611185-004|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:43:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Page 316 of 1151

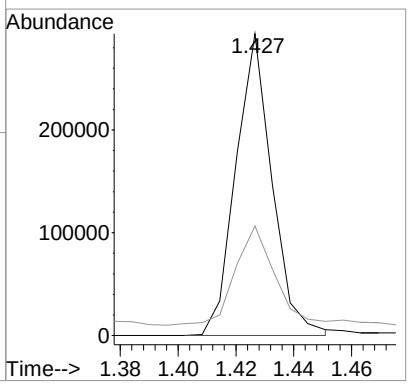
1st 10/26/16
2nd 10/27/16

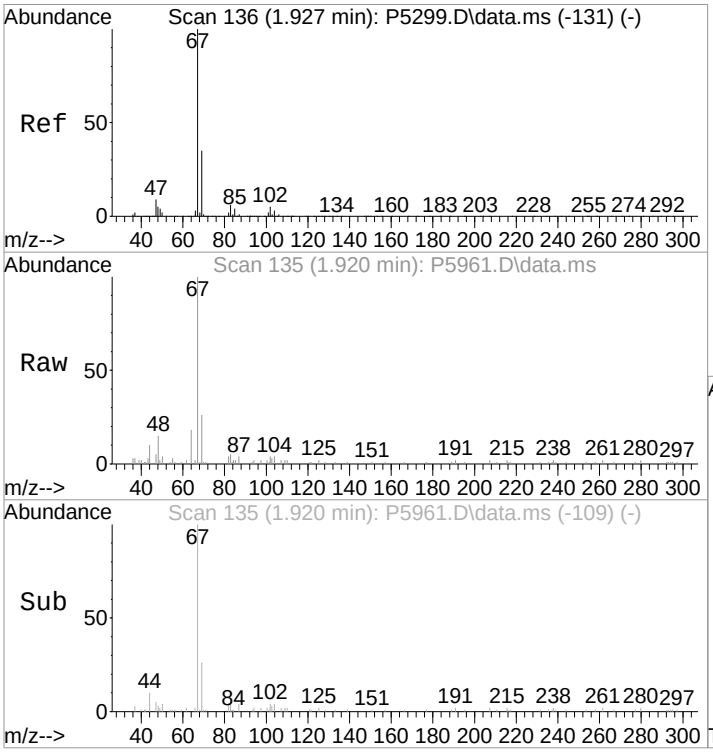


#4
Vinyl Chloride
Concen: 41.11 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 62 Resp: 256799

Ion	Ratio	Lower	Upper
62	100		
64	36.2	13.1	53.1

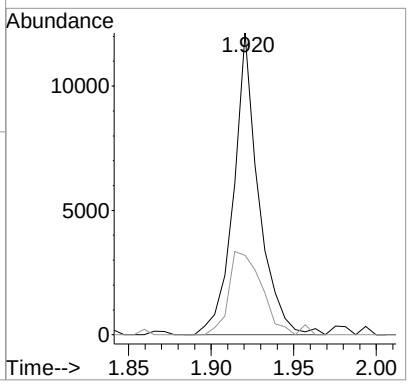


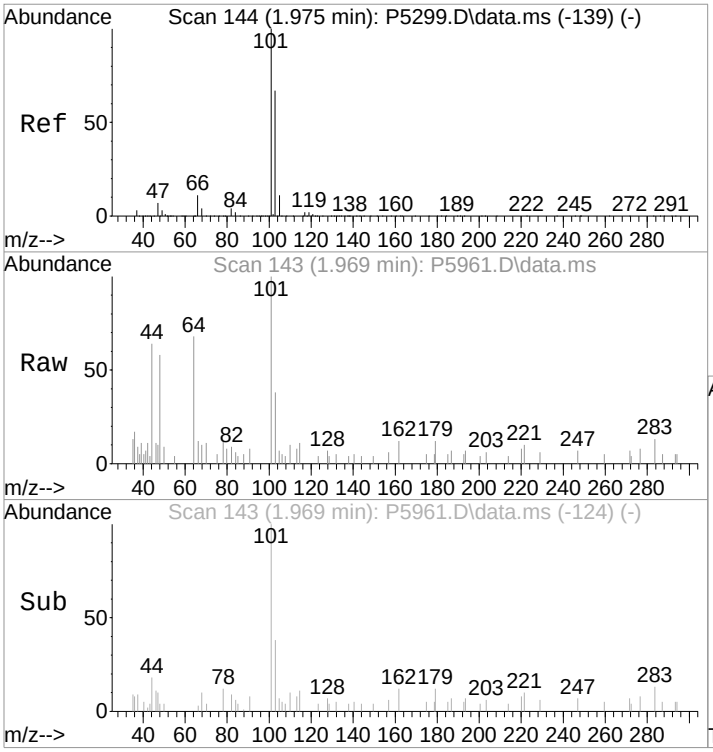


#7
Freon 21
Concen: 1.55 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 67 Resp: 12787

Ion	Ratio	Lower	Upper
67	100		
69	26.3	14.4	54.4

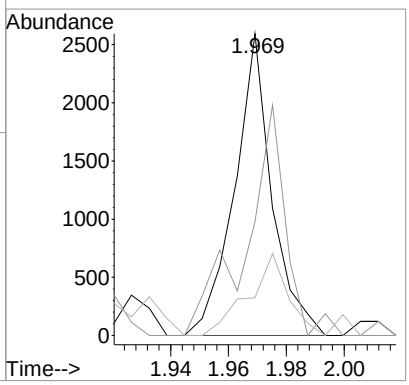


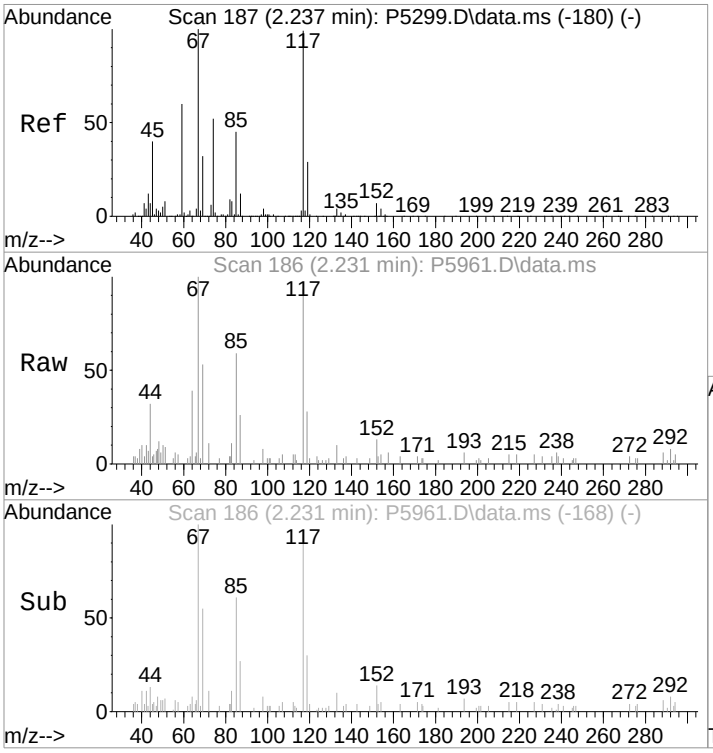


#8
Trichlorofluoromethane
Concen: 0.32 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion:101 Resp: 2331

Ion	Ratio	Lower	Upper
101	100		
103	37.6	47.3	87.3#
66	12.5	0.0	31.5

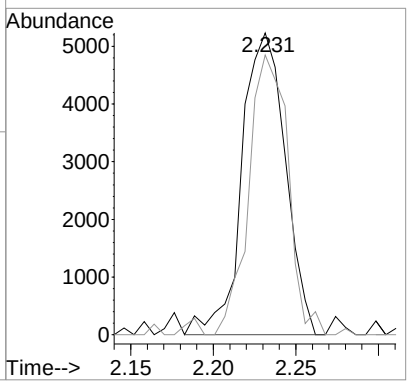


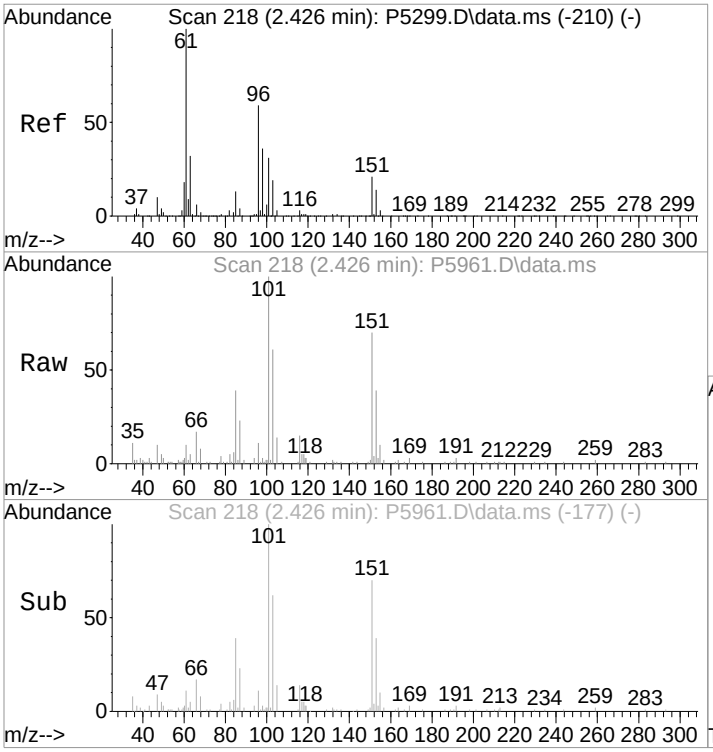


#10
Freon 123a
Concen: 1.91 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 67 Resp: 9611

Ion	Ratio	Lower	Upper
67	100		
117	92.6	78.8	118.8

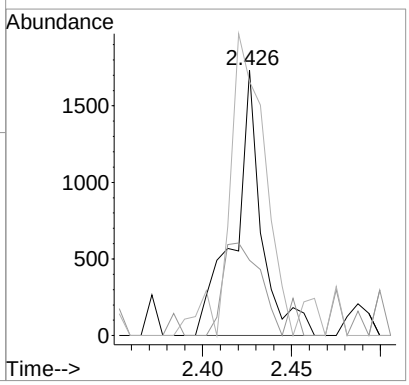


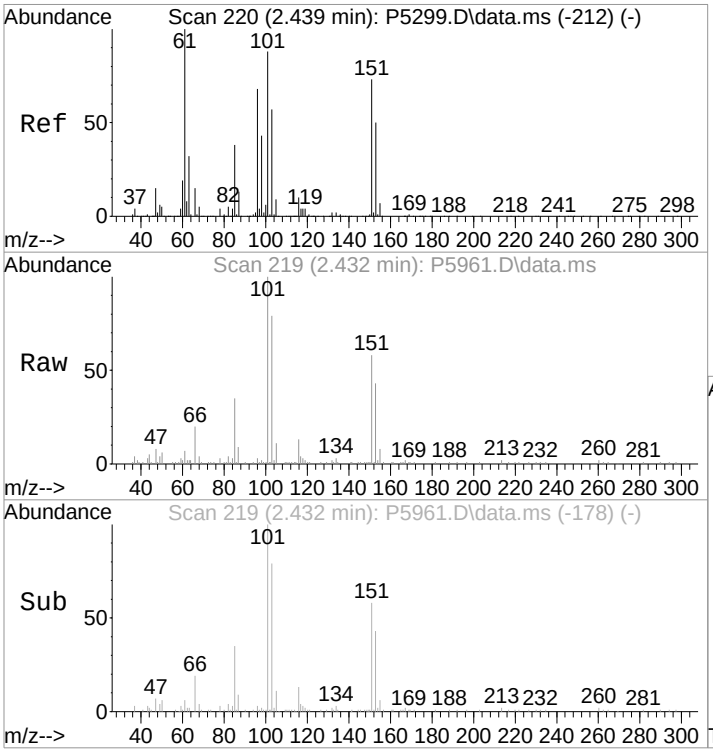


#13
1,1-Diclethene
Concen: 0.33 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 96 Resp: 1836

Ion	Ratio	Lower	Upper
96	100		
98	39.1	41.8	81.8#
61	95.8	150.1	190.1#

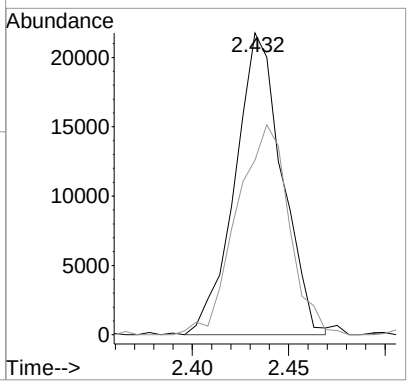


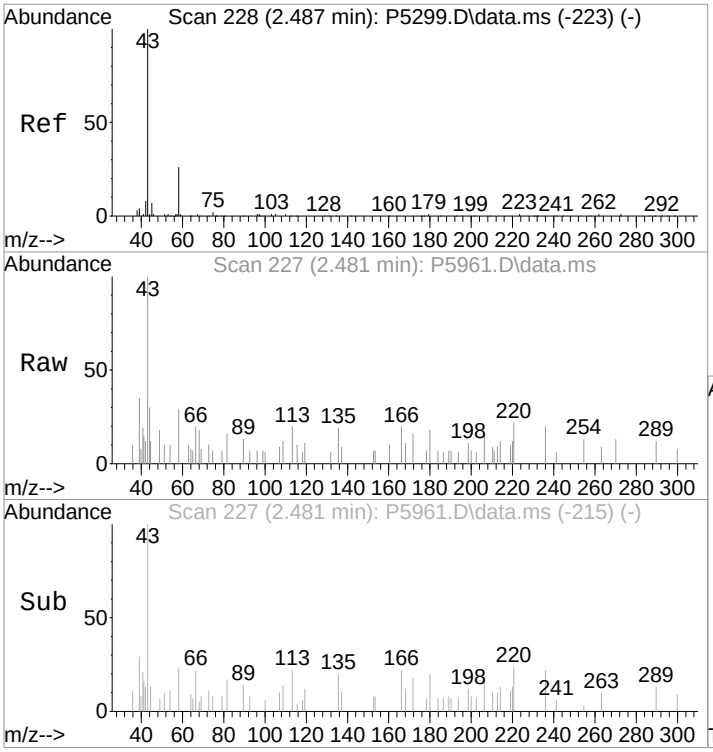


#14
Freon 113
Concen: 6.38 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion:101 Resp: 37115

Ion	Ratio	Lower	Upper
101	100		
151	57.8	62.6	102.6#

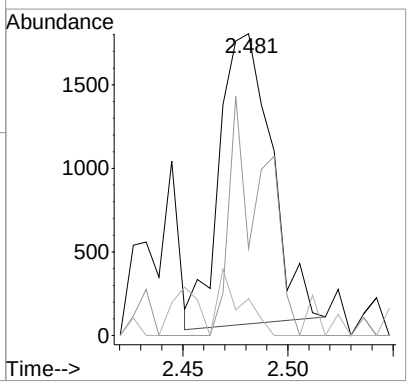


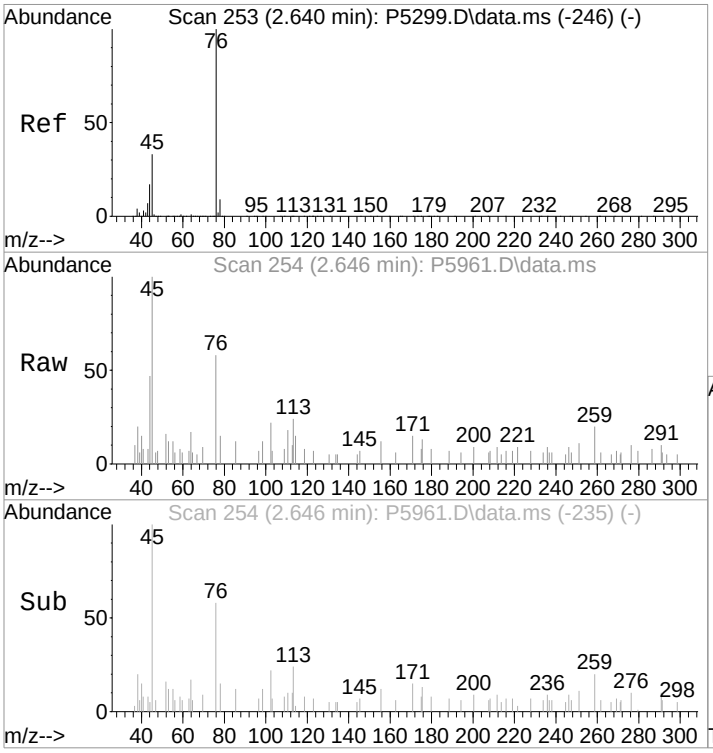


#15
Acetone
Concen: 2.33 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.000 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 43 Resp: 2997

Ion	Ratio	Lower	Upper
43	100		
58	28.9	5.3	45.3
42	12.2	0.0	28.7

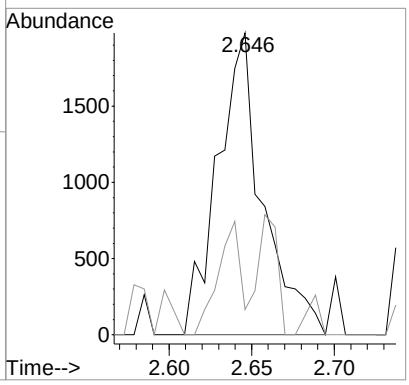


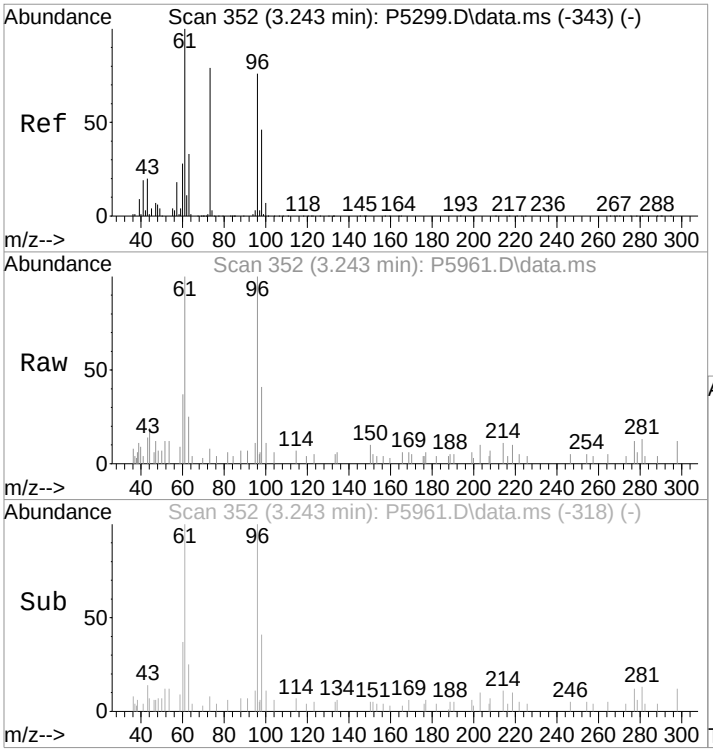


#16
2-Propanol
Concen: 13.71 ppb
RT: 2.646 min Scan# 254
Delta R.T. 0.006 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 45 Resp: 3764

Ion	Ratio	Lower	Upper
45	100		
43	8.4	1.6	41.6

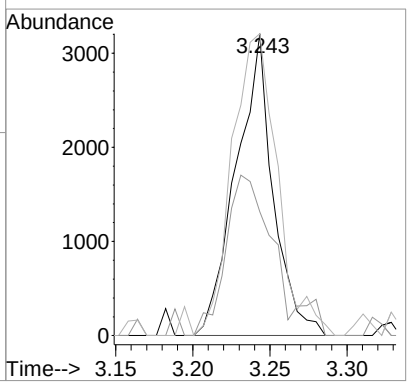


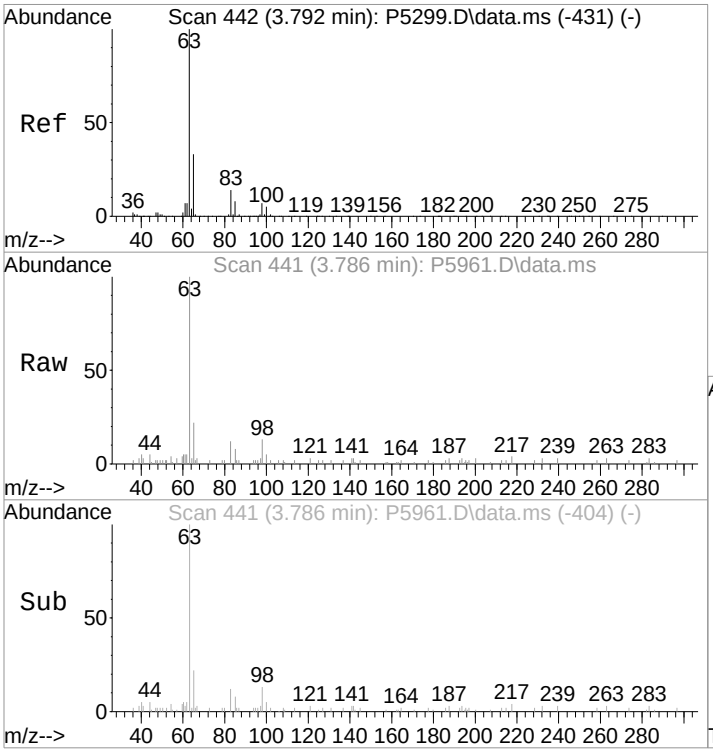


#26
trans-1,2-Dichloroethene
Concen: 0.87 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 96 Resp: 5361

Ion	Ratio	Lower	Upper
96	100		
98	41.1	41.0	81.0
61	100.0	112.4	152.4#

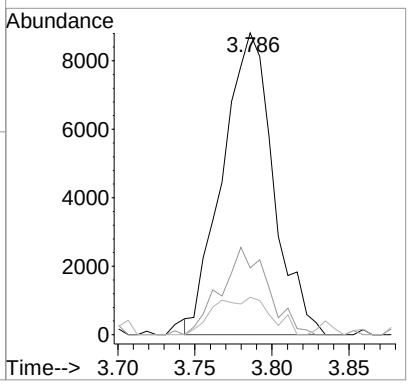


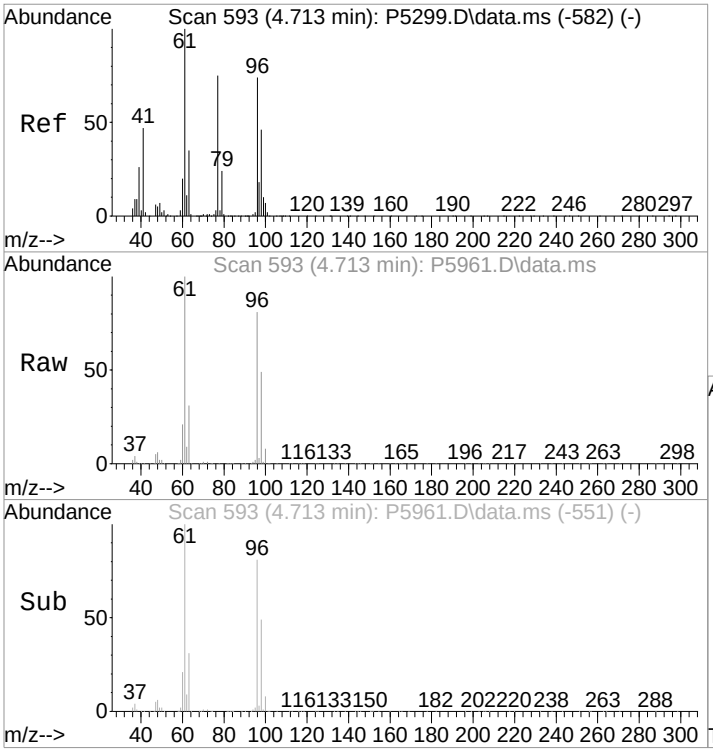


#28
1,1-Diclethane
Concen: 1.97 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 63 Resp: 20229

Ion	Ratio	Lower	Upper
63	100		
65	22.2	12.9	52.9
83	12.4	0.0	33.5

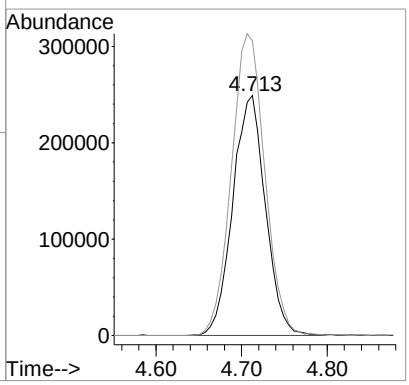


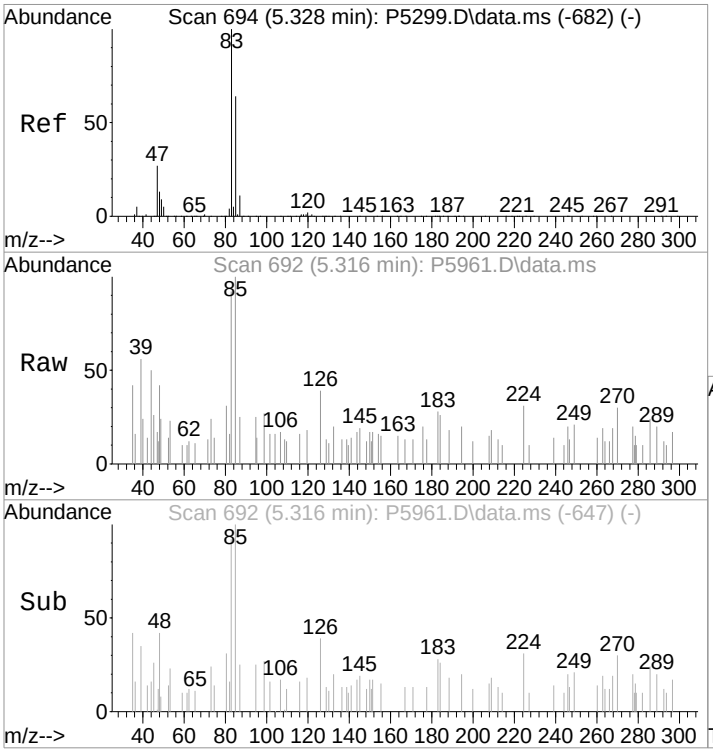


#34
cis-1,2-Dichloroethene
Concen: 105.00 ppb
RT: 4.713 min Scan# 593
Delta R.T. -0.000 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 96 Resp: 661480

Ion	Ratio	Lower	Upper
96	100		
61	122.8	114.6	154.6

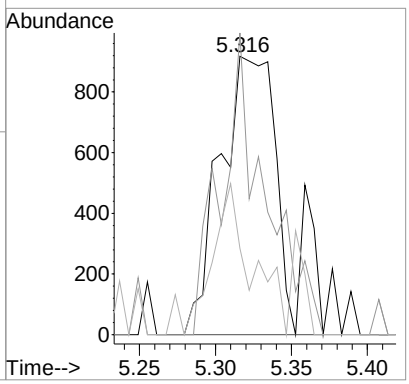


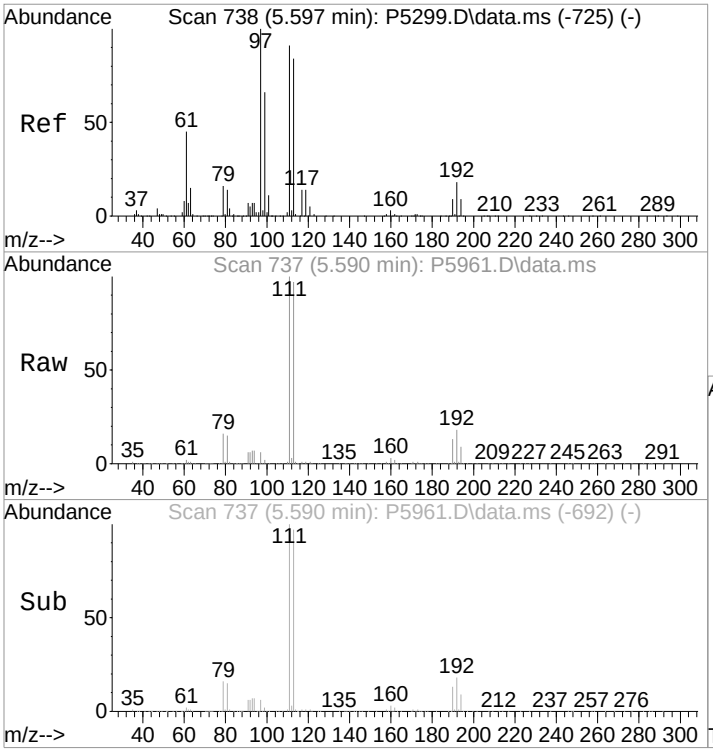


#40
Chloroform
Concen: 0.26 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 83 Resp: 2608

Ion	Ratio	Lower	Upper
83	100		
85	108.5	44.1	84.1#
47	18.5	7.4	47.4

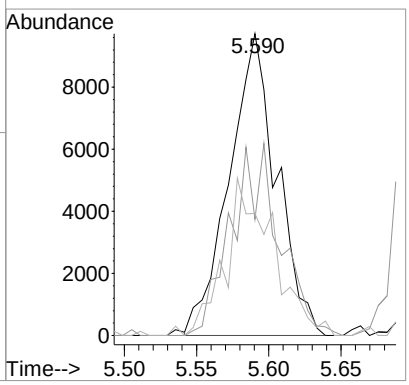


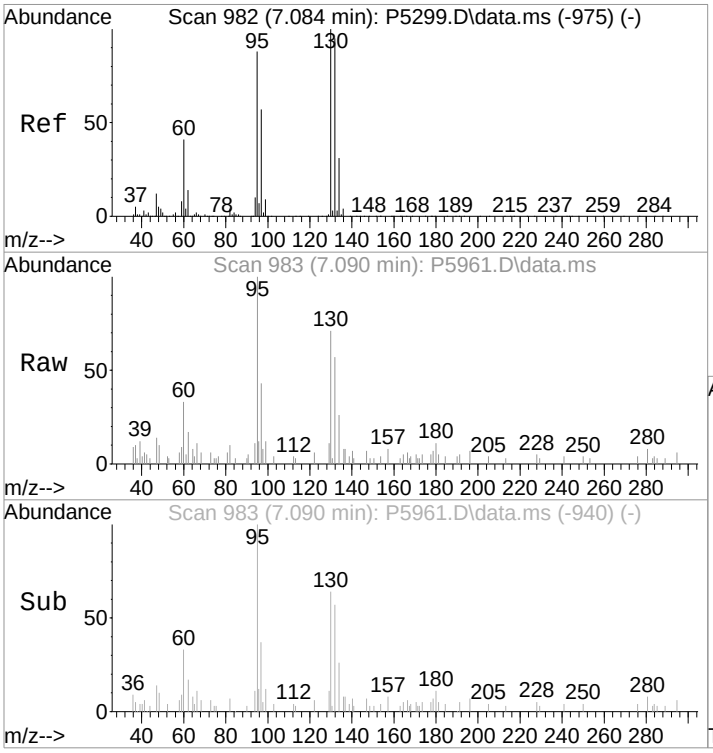


#41
1,1,1-Trichloroethane
Concen: 2.41 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion: 97 Resp: 22206

Ion	Ratio	Lower	Upper
97	100		
99	40.8	46.2	86.2#
61	40.4	25.3	65.3

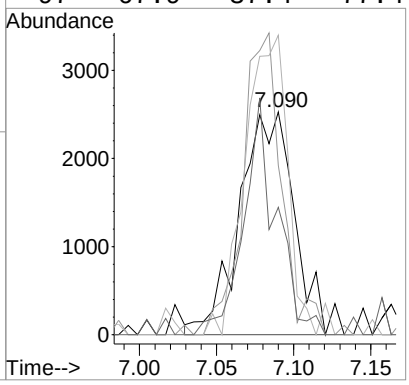




#54
Trichloroethene
Concen: 0.96 ppb
RT: 7.090 min Scan# 983
Delta R.T. 0.012 min
Lab File: P5961.D
Acq: 26 Oct 2016 2:23 pm

Tgt Ion:130 Resp: 6174

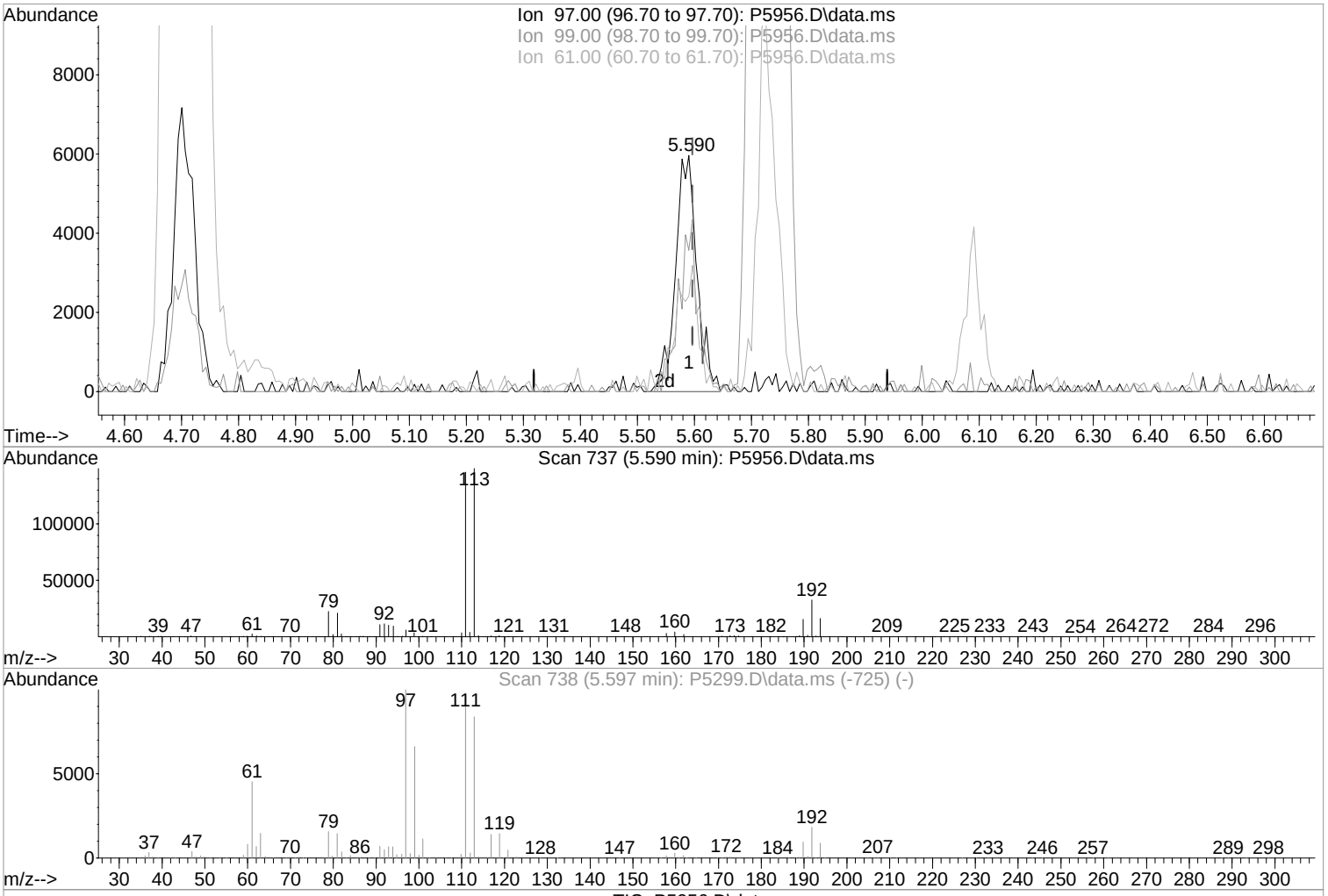
Ion	Ratio	Lower	Upper
130	100		
132	76.0	75.2	115.2
95	150.8	68.1	108.1#
97	67.9	37.4	77.4



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5956.D
Acq On : 26 Oct 2016 11:52 am
Operator : K.Ruest
Sample : R1611185-005|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 12:12:19 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5956.D\data.ms

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

5.590min (-0.006) 1.64 ppb m

response 15627

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	59.79
61.00	45.30	40.42
0.00	0.00	0.00

Manual Integration:

After

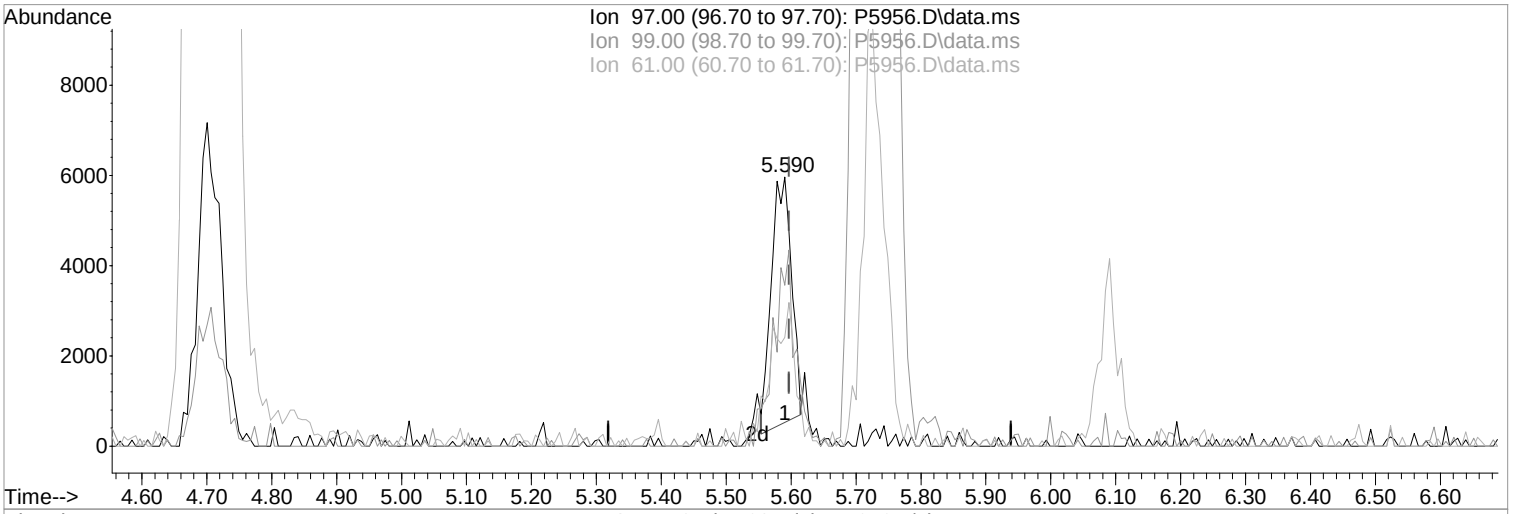
Split Peak

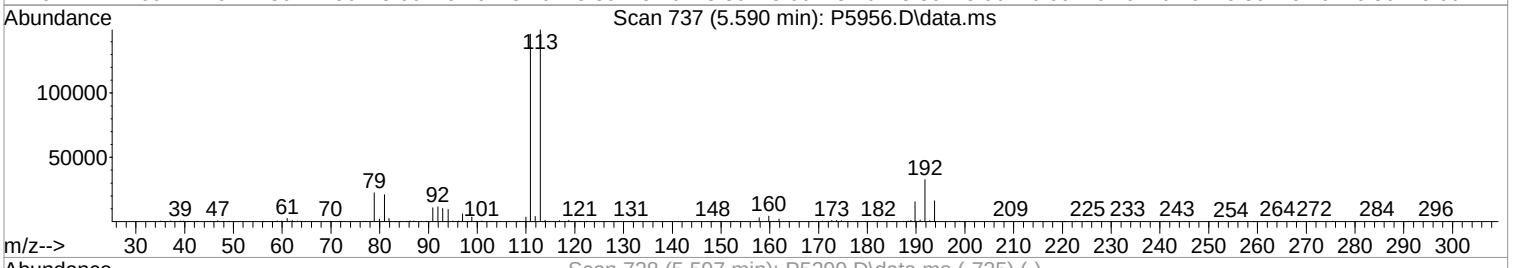
10/26/16

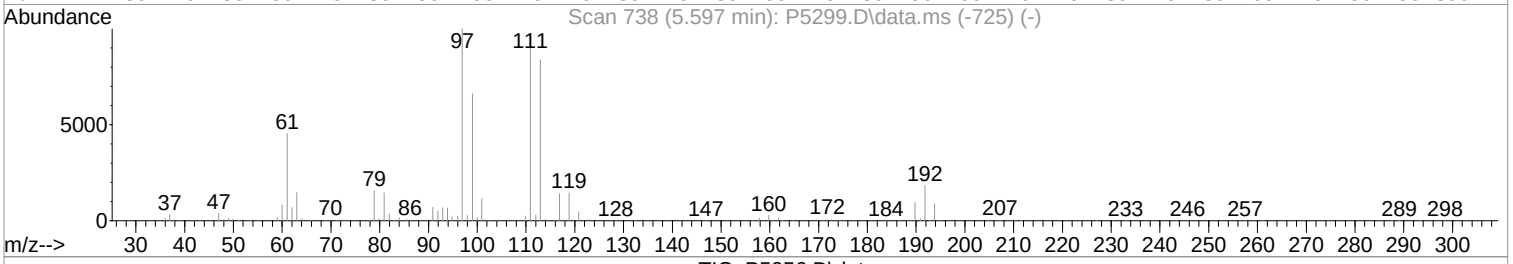
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5956.D
Acq On : 26 Oct 2016 11:52 am
Operator : K.Ruest
Sample : R1611185-005|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 12:12:19 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5956.D\data.ms

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

5.590min (-0.006) 1.24 ppb

response 11794

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	59.79
61.00	45.30	40.42
0.00	0.00	0.00

Manual Integration:

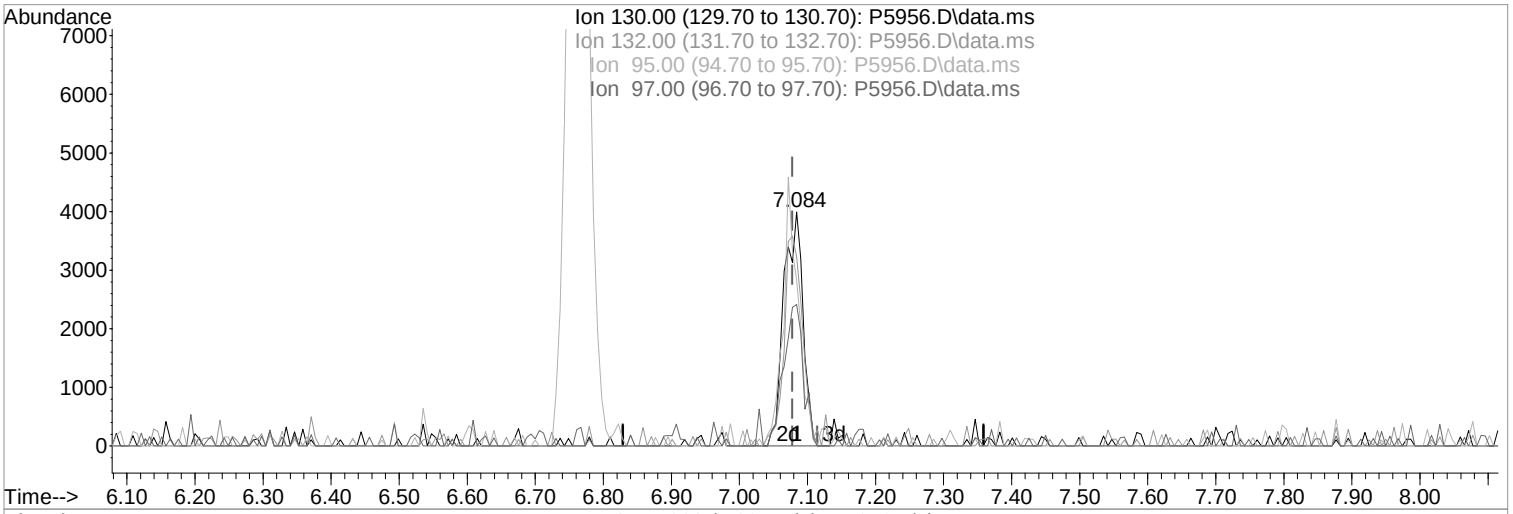
Before

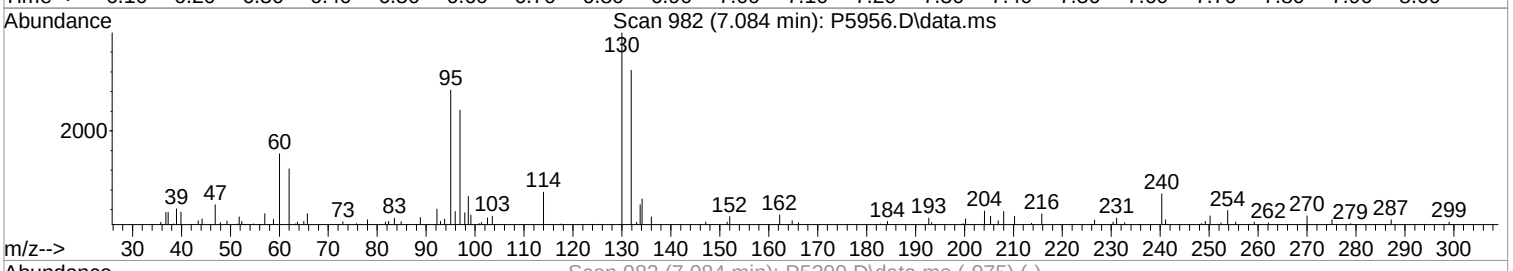
10/26/16

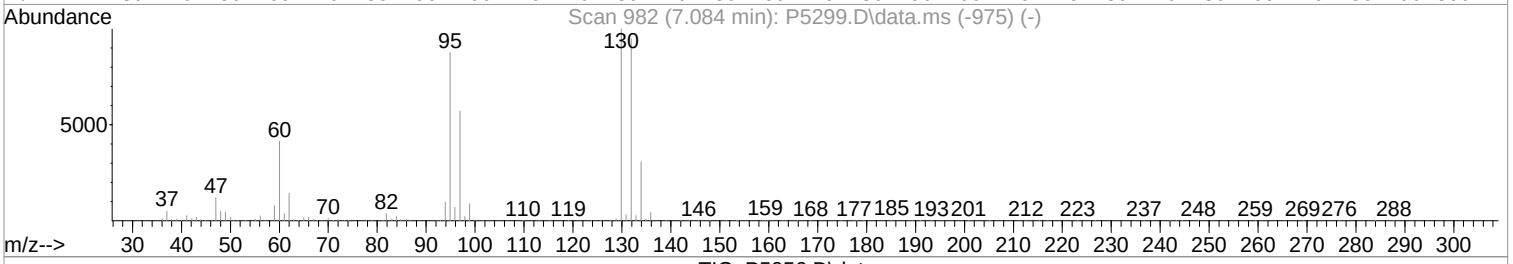
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5956.D
Acq On : 26 Oct 2016 11:52 am
Operator : K.Ruest
Sample : R1611185-005|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 12:12:19 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5956.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 1.13 ppb m

response 7811

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	80.85
95.00	88.10	70.83
97.00	57.40	60.49

Manual Integration:

After

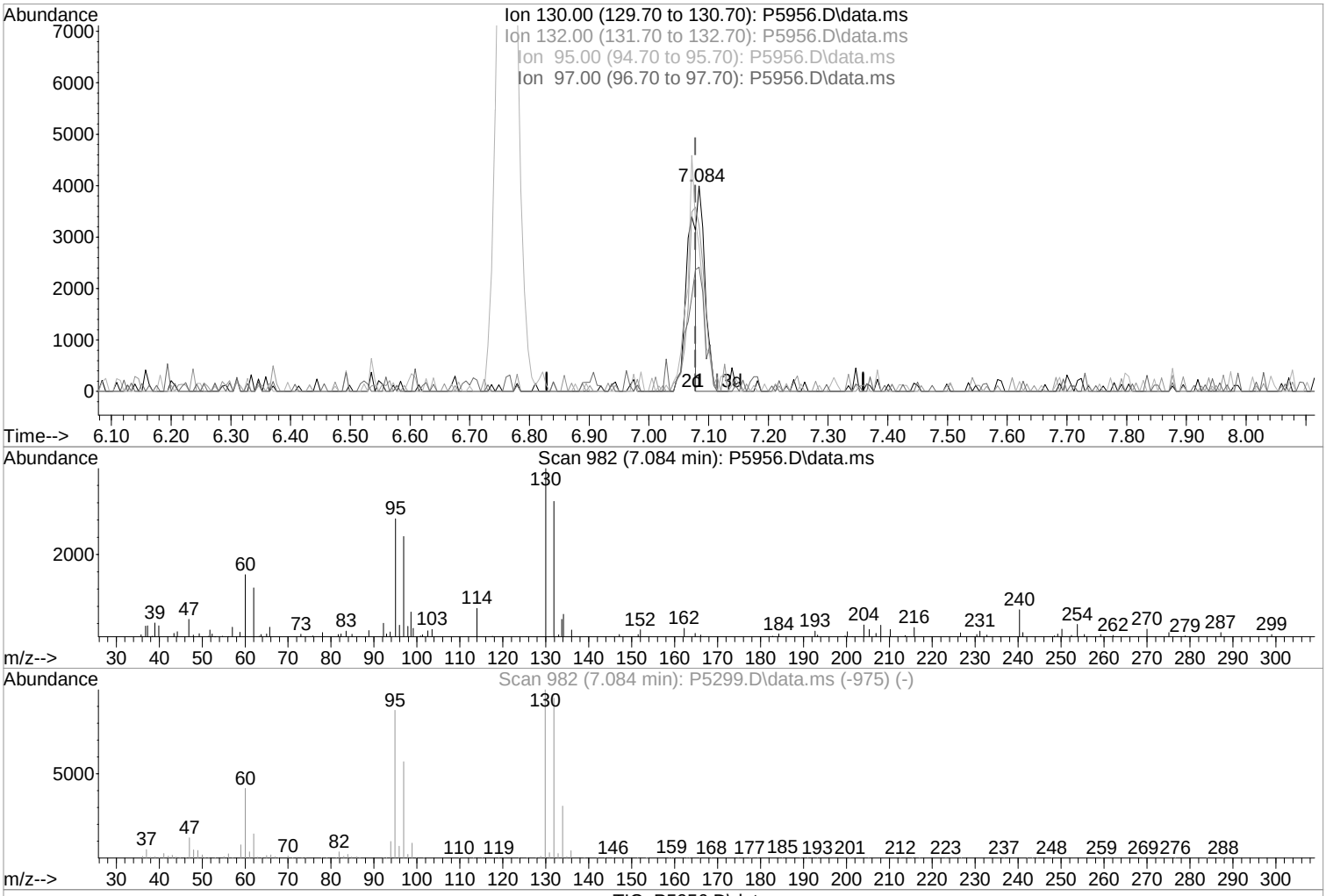
Split Peak

10/26/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5956.D
Acq On : 26 Oct 2016 11:52 am
Operator : K.Ruest
Sample : R1611185-005|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 12:12:19 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5956.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 0.51 ppb

response 3547

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	80.85
95.00	88.10	70.83
97.00	57.40	60.49

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5956.D
Acq On : 26 Oct 2016 11:52 am
Operator : K.Ruest
Sample : R1611185-005|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 12:14:05 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

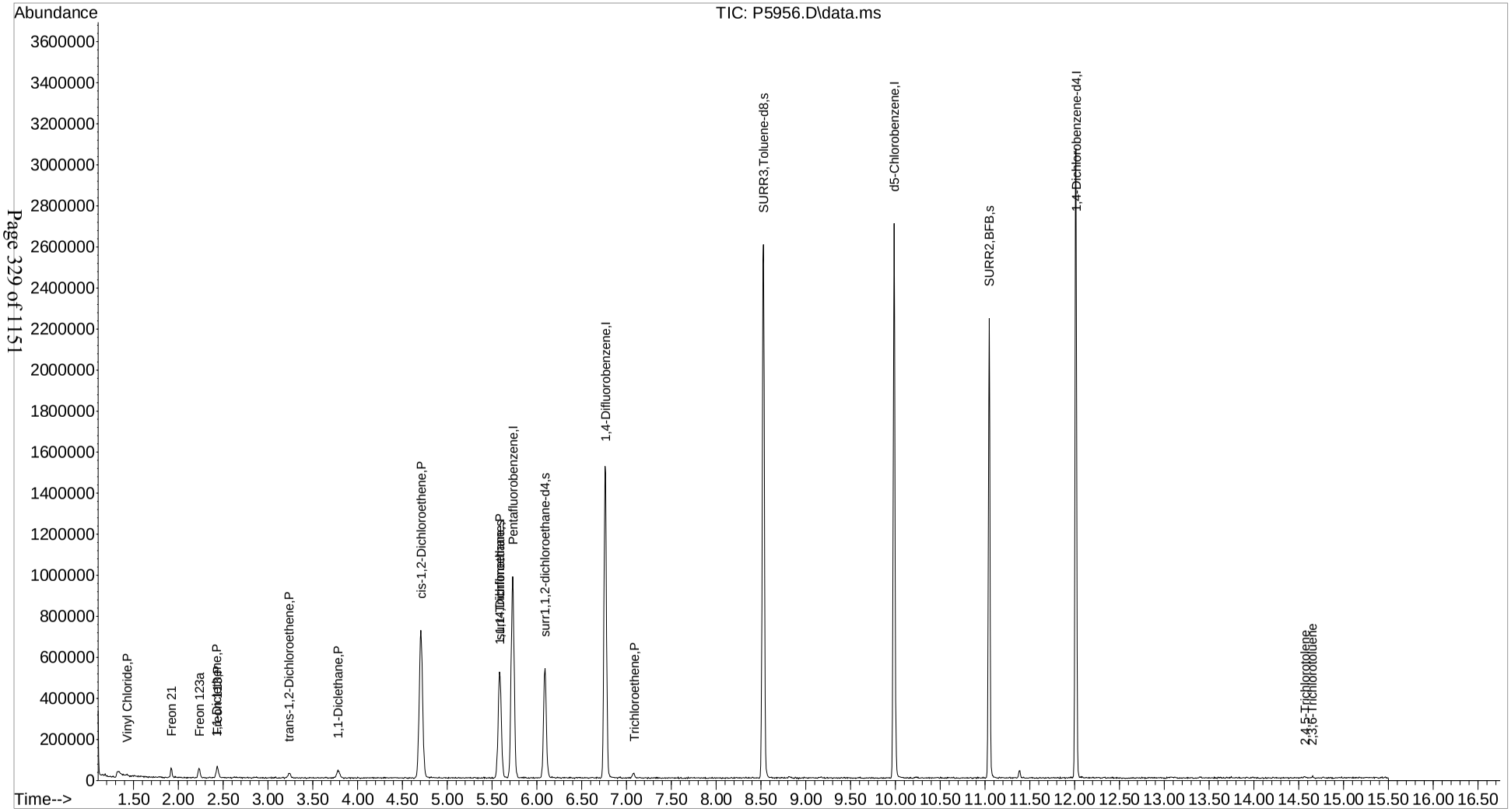
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	816586	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1308789	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1195493	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	610945	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	384921	55.11	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.22%				
48) surr1,1,2-dichloroetha...	6.090	65	419130	52.82	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.64%				
65) SURR3,Toluene-d8	8.529	98	1617311	56.50	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.00%				
70) SURR2,BFB	11.047	95	586967	52.56	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.12%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	3106	0.48	ppb	#	1
5) Bromomethane	1.683	94	358	Below Cal			100
6) Chloroethane	1.780	64	875	Below Cal			74
7) Freon 21	1.920	67	26577	3.11	ppb		88
10) Freon 123a	2.231	67	18677	3.59	ppb	#	76
13) 1,1-Diclethene	2.426	96	1622	0.29	ppb	#	77
14) Freon 113	2.433	101	16976	2.82	ppb		83
26) trans-1,2-Dichloroethene	3.237	96	10158	1.59	ppb	#	77
28) 1,1-Diclethane	3.780	63	38302	3.61	ppb		95
34) cis-1,2-Dichloroethene	4.706	96	449275	68.95	ppb		94
41) 1,1,1-Trichloroethane	5.590	97	15627m	1.64	ppb		
54) Trichloroethene	7.084	130	7811m	1.13	ppb		
119) 2,4,5-Trichlorotolene	14.570	159	1419	0.25	ppb	#	66
120) 2,3,6-Trichlorotoluene	14.650	159	1210	0.23	ppb	#	65

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

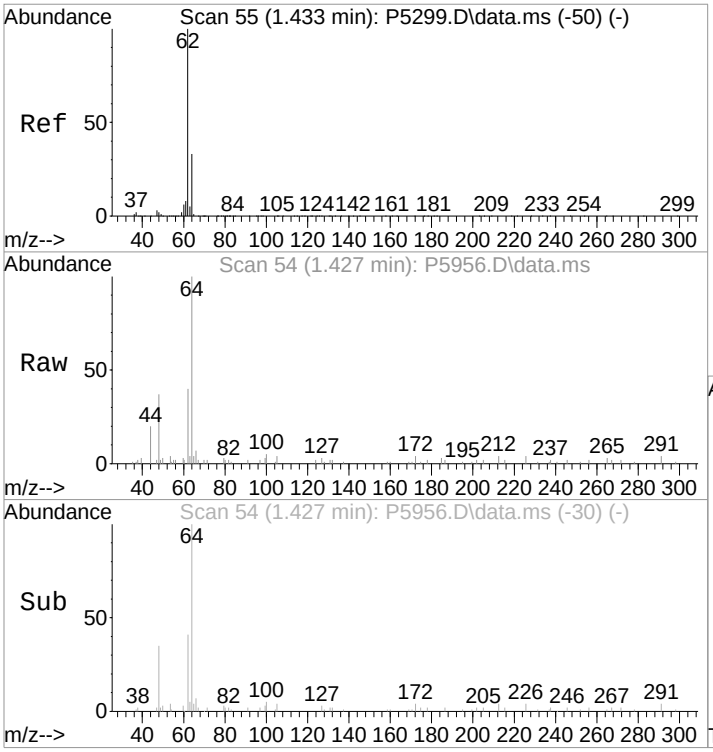
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5956.D
Acq On : 26 Oct 2016 11:52 am
Operator : K.Ruest
Sample : R1611185-005|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 12:14:05 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



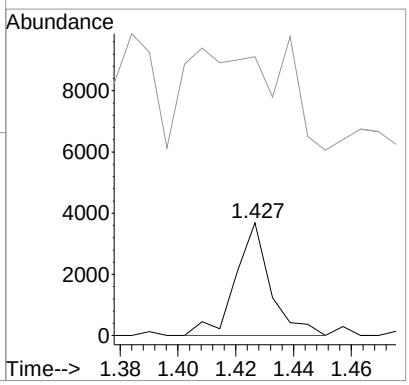
1st 10/26/16
2nd 10/27/16

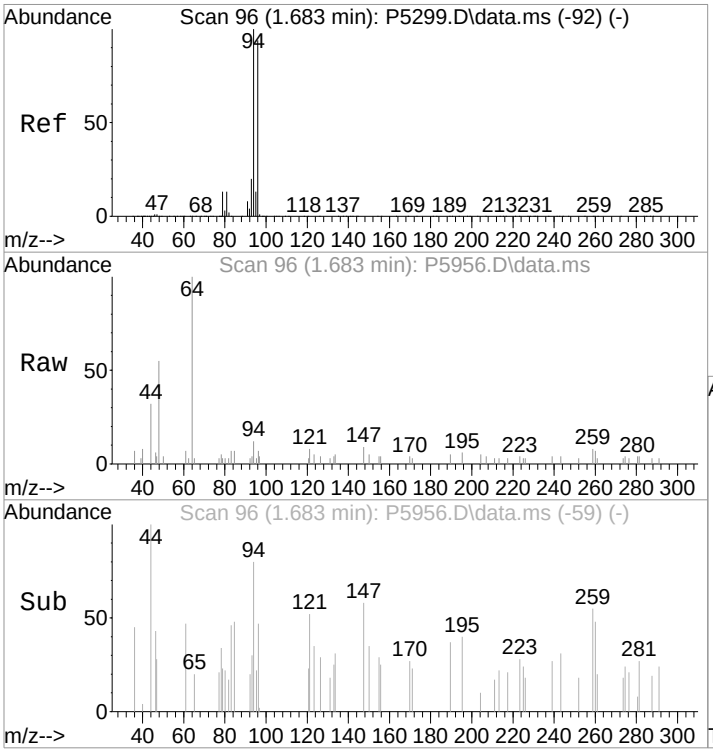


#4
Vinyl Chloride
Concen: 0.48 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 62 Resp: 3106

Ion	Ratio	Lower	Upper
62	100		
64	247.2	13.1	53.1#

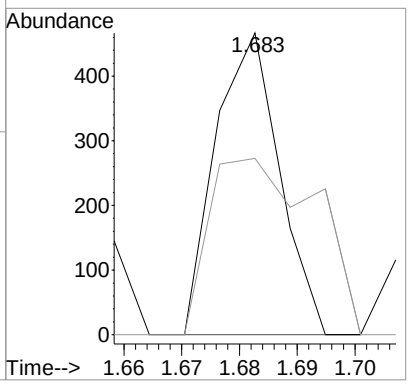


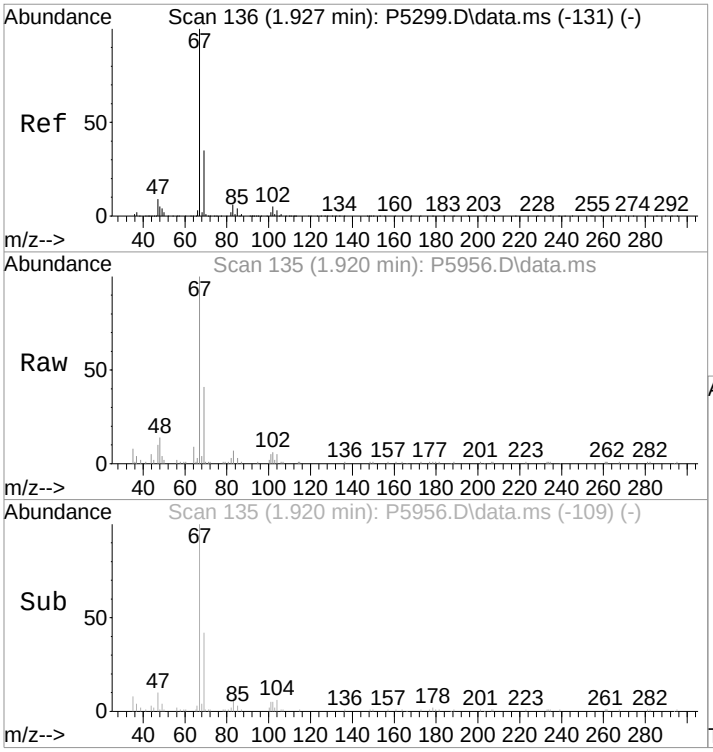


#5
Bromomethane
Concen: Below Cal
RT: 1.683 min Scan# 96
Delta R.T. 0.001 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 94 Resp: 358

Ion	Ratio	Lower	Upper
94	100		
96	94.2	73.8	113.8

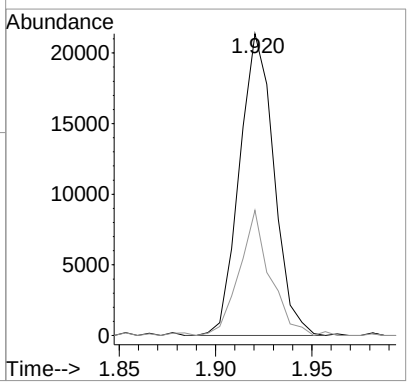


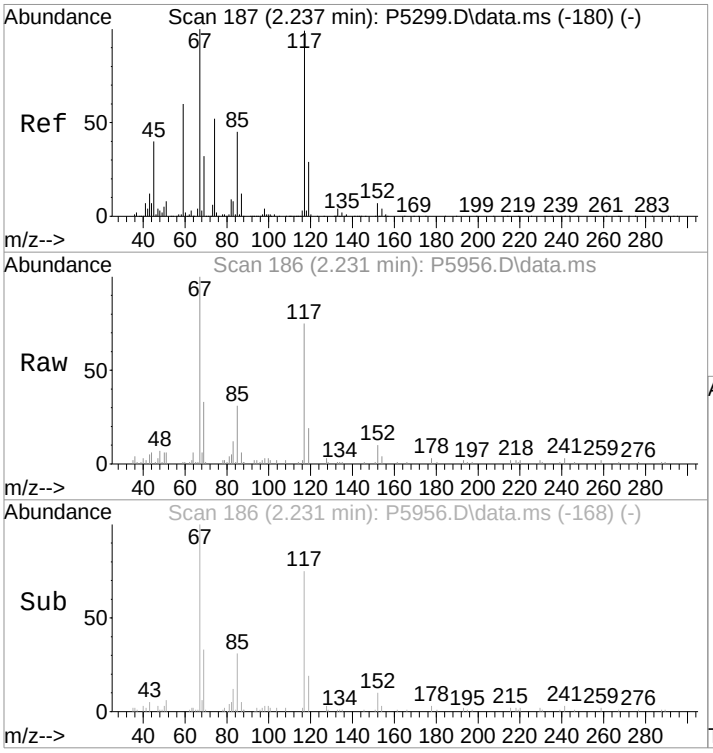


#7
Freon 21
Concen: 3.11 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 67 Resp: 26577

Ion	Ratio	Lower	Upper
67	100		
69	41.4	14.4	54.4

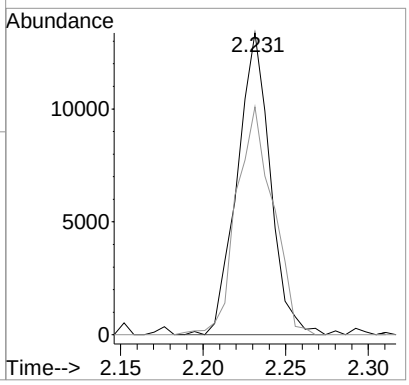


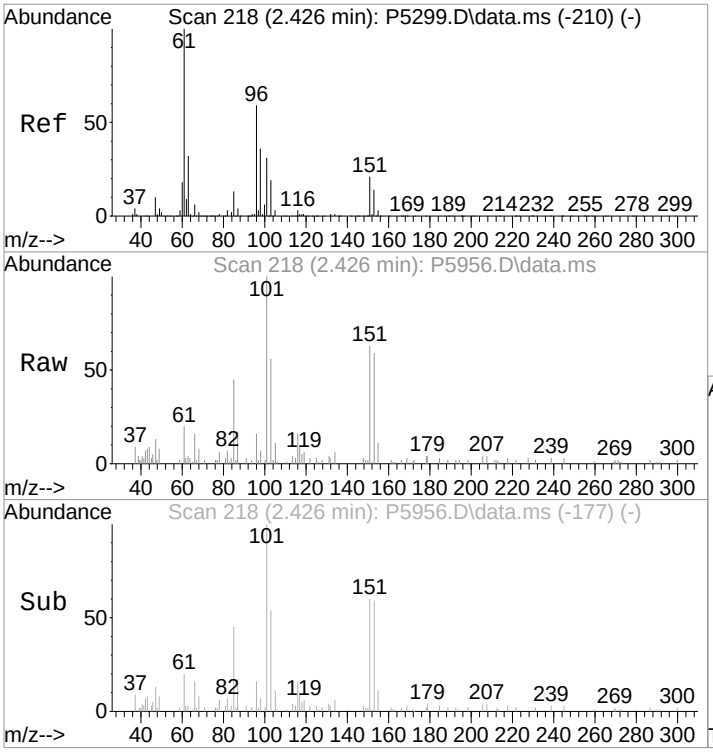


#10
Freon 123a
Concen: 3.59 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 67 Resp: 18677

Ion	Ratio	Lower	Upper
67	100		
117	75.5	78.8	118.8#

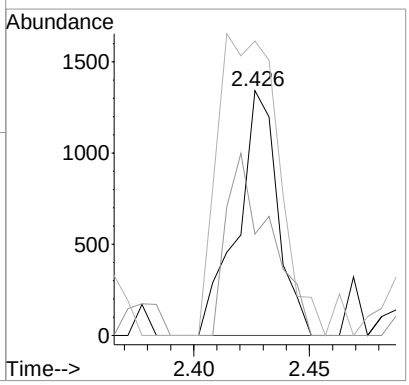


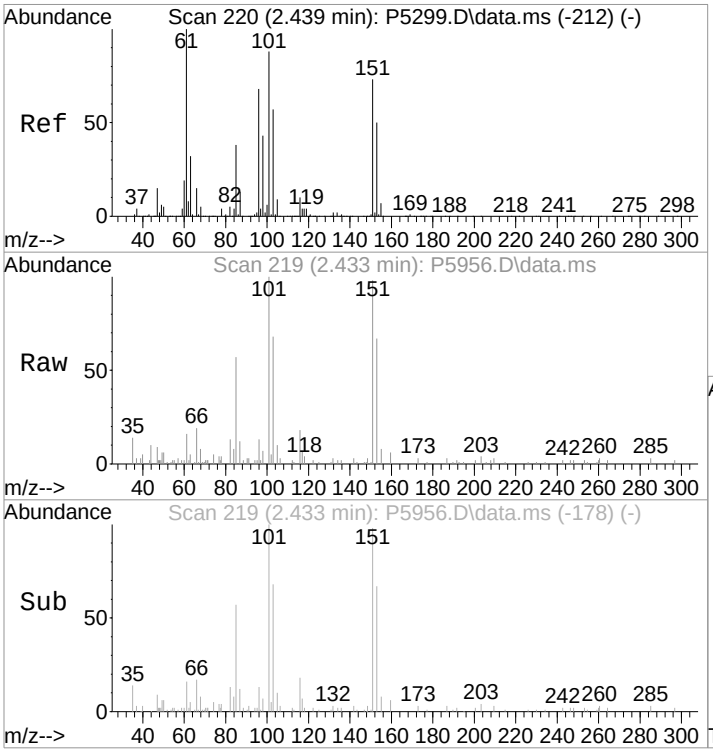


#13
1,1-Diclethene
Concen: 0.29 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 96 Resp: 1622

Ion	Ratio	Lower	Upper
96	100		
98	41.4	41.8	81.8#
61	140.9	150.1	190.1#

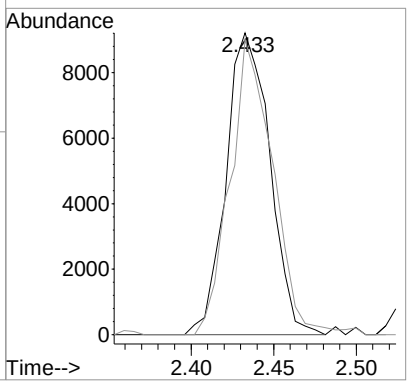


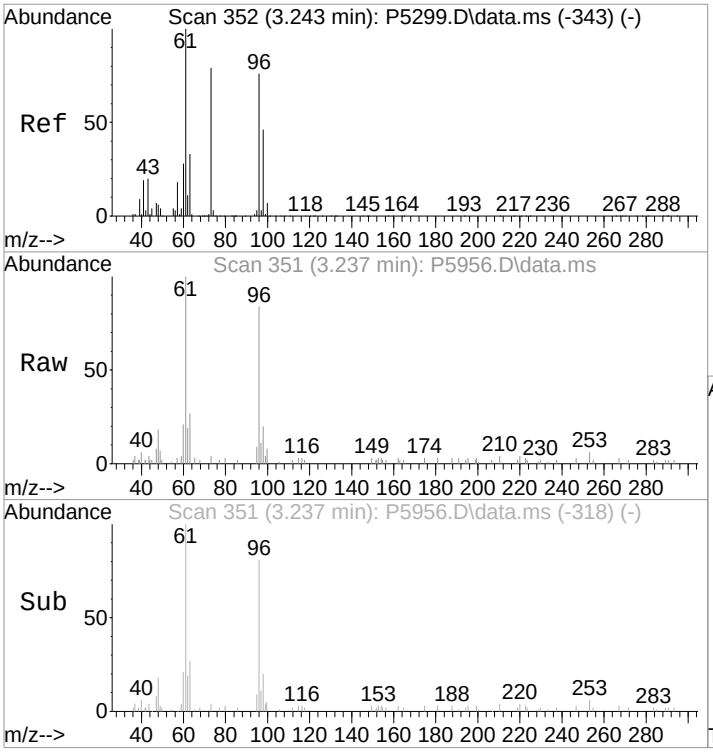


#14
Freon 113
Concen: 2.82 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion:101 Resp: 16976

Ion	Ratio	Lower	Upper
101	100		
151	97.7	62.6	102.6

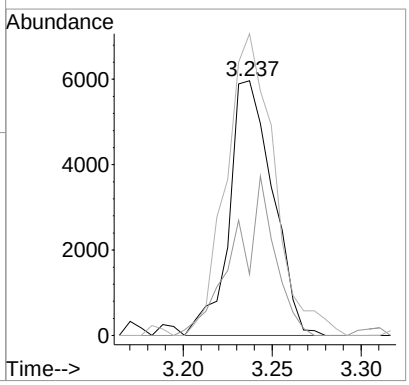


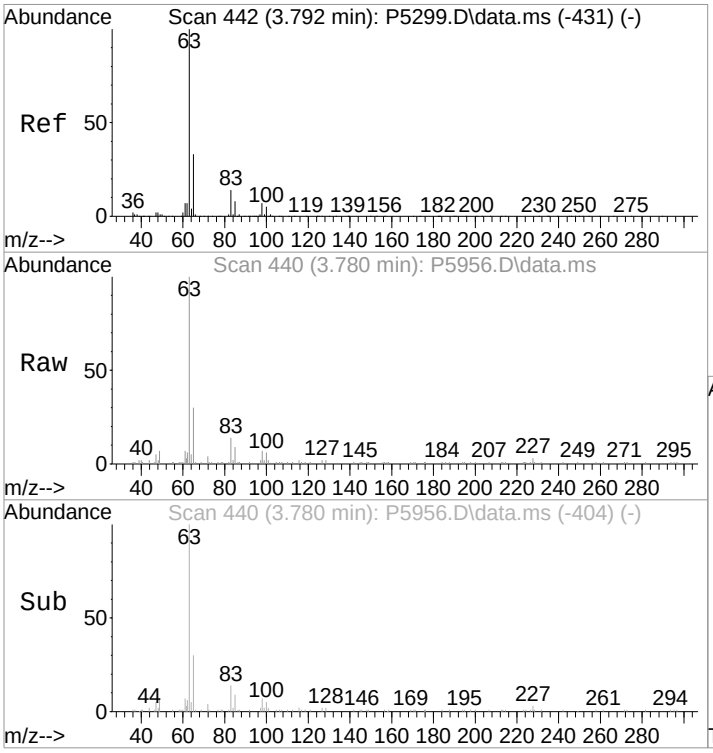


#26
trans-1,2-Dichloroethene
Concen: 1.59 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 96 Resp: 10158

Ion	Ratio	Lower	Upper
96	100		
98	24.0	41.0	81.0#
61	118.5	112.4	152.4

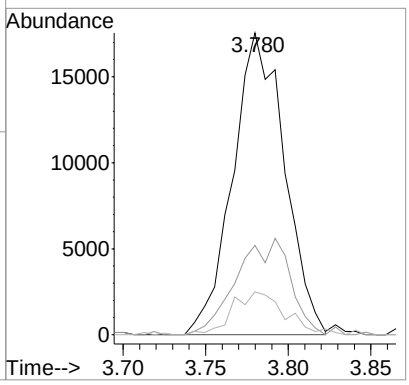


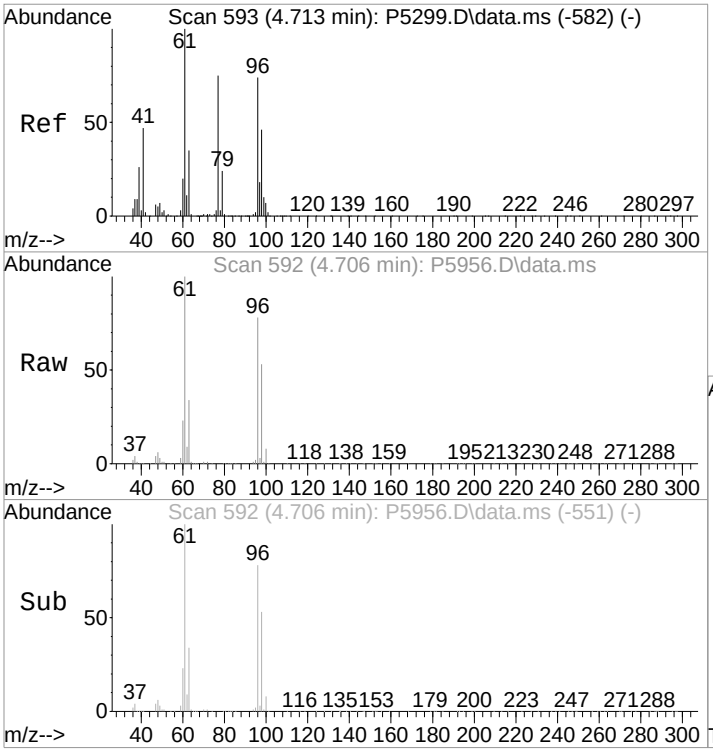


#28
1,1-Diclethane
Concen: 3.61 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 63 Resp: 38302

Ion	Ratio	Lower	Upper
63	100		
65	29.6	12.9	52.9
83	14.2	0.0	33.5

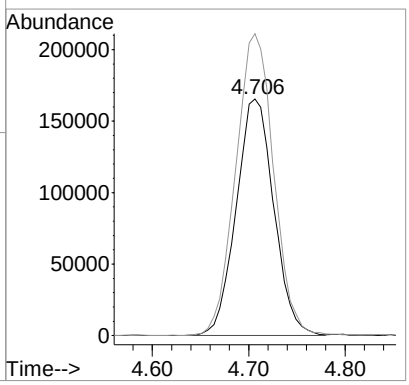


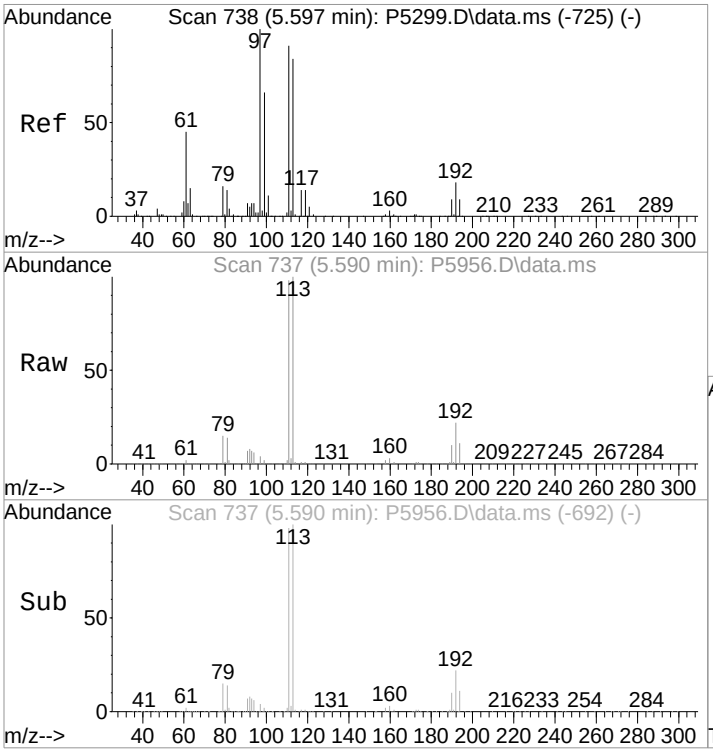


#34
cis-1,2-Dichloroethene
Concen: 68.95 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 96 Resp: 449275

Ion	Ratio	Lower	Upper
96	100		
61	127.6	114.6	154.6

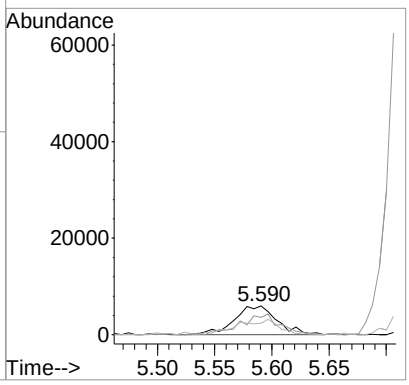


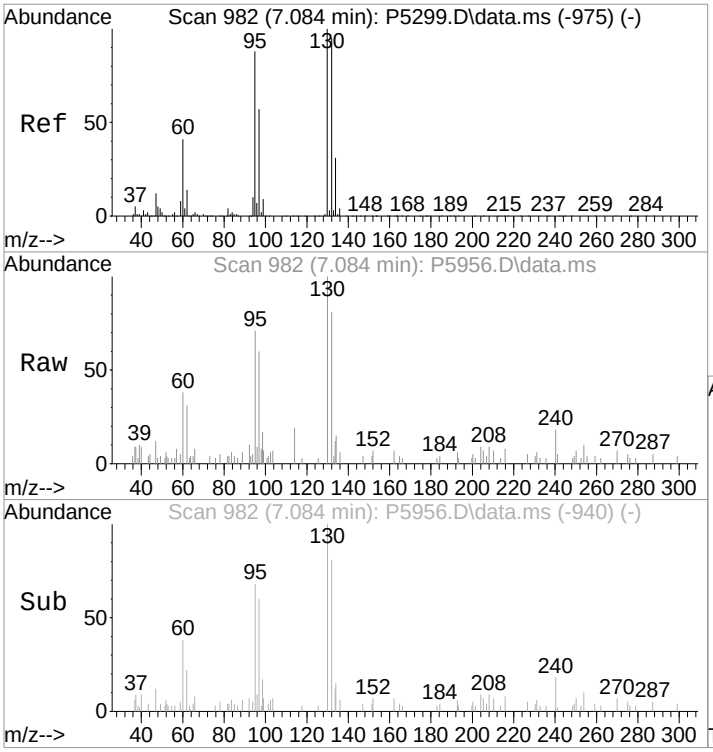


#41
1,1,1-Trichloroethane
Concen: 1.64 ppb m
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion: 97 Resp: 15627

Ion	Ratio	Lower	Upper
97	100		
99	59.8	46.2	86.2
61	40.4	25.3	65.3

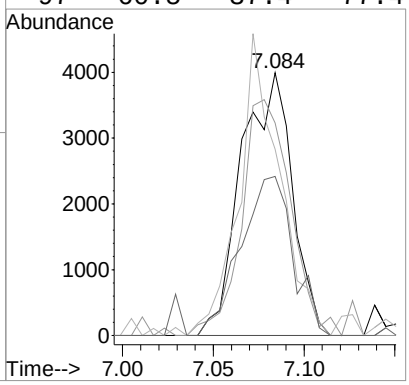


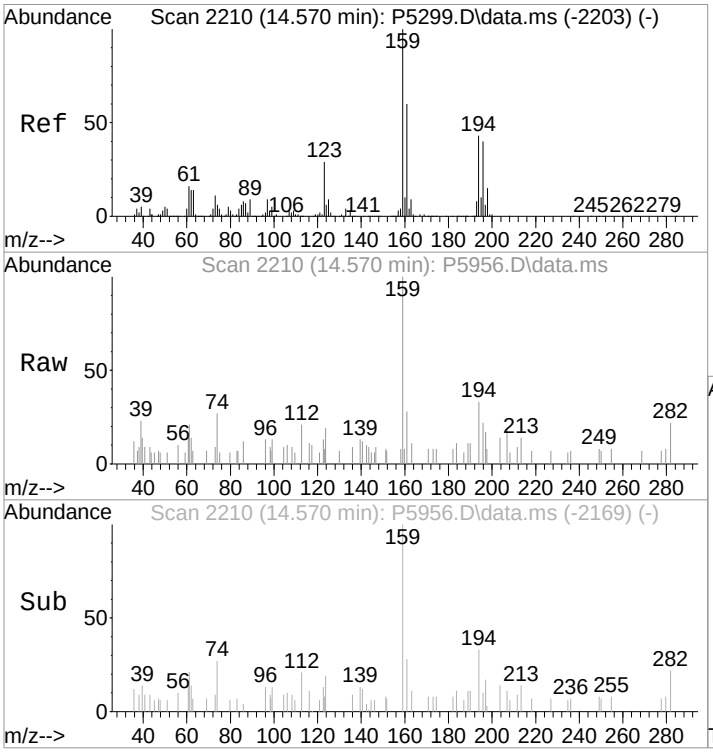


#54
Trichloroethene
Concen: 1.13 ppb m
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion:130 Resp: 7811

Ion	Ratio	Lower	Upper
130	100		
132	80.8	75.2	115.2
95	70.8	68.1	108.1
97	60.5	37.4	77.4

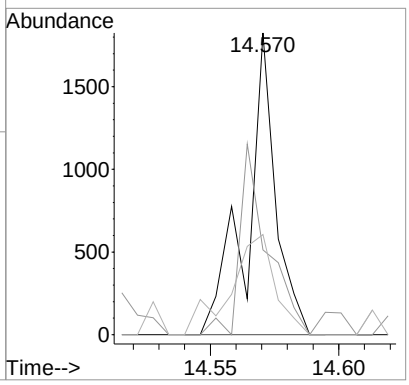


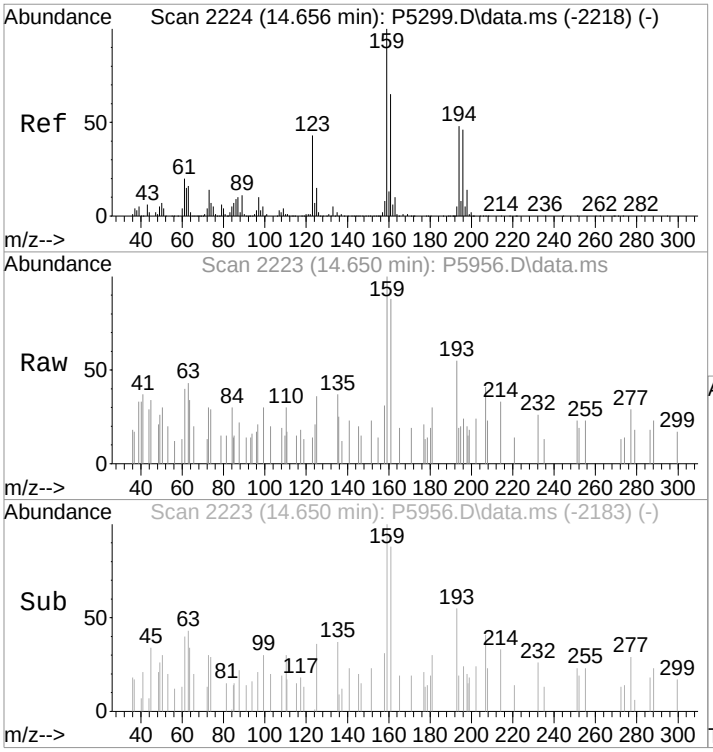


#119
2,4,5-Trichlorotolene
Concen: 0.25 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion:159 Resp: 1419

Ion	Ratio	Lower	Upper
159	100		
161	26.0	48.1	72.1#
194	30.6	34.5	51.7#

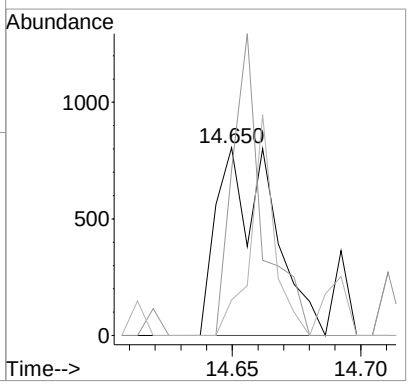




#120
2,3,6-Trichlorotoluene
Concen: 0.23 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P5956.D
Acq: 26 Oct 2016 11:52 am

Tgt Ion:159 Resp: 1210

Ion	Ratio	Lower	Upper
159	100		
161	88.1	52.3	78.5#
194	19.0	38.6	57.8#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5906.D
Acq On : 24 Oct 2016 6:23 pm
Operator : K.Ruest
Sample : R1611185-006|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 25 12:05:37 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

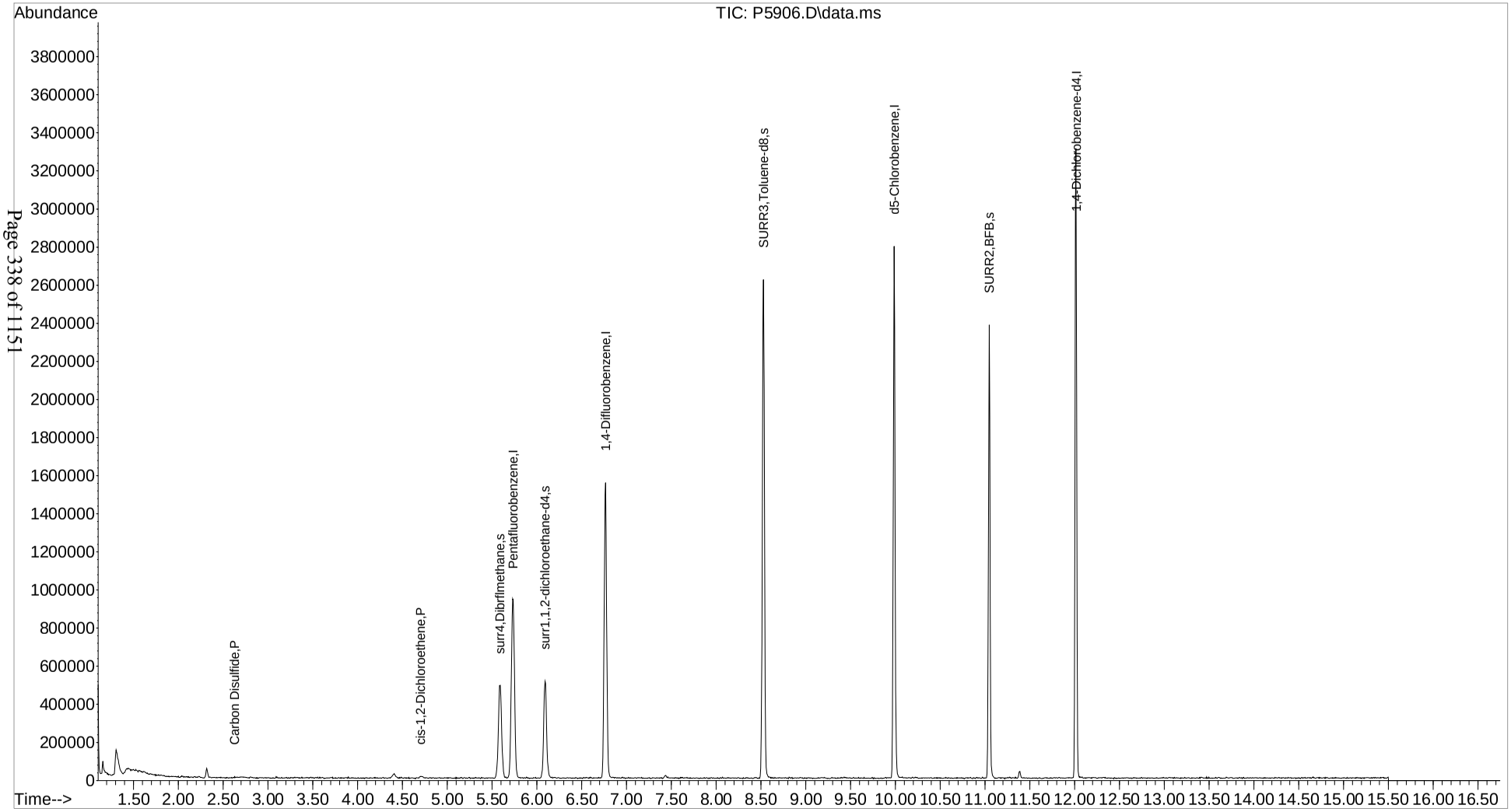
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.737	168	808830	50.00	ppb		0.00	
43) 1,4-Difluorobenzene	6.767	114	1317346	50.00	ppb		0.00	
71) d5-Chlorobenzene	9.986	117	1248486	50.00	ppb		0.00	
86) 1,4-Dichlorobenzene-d4	12.016	152	654903	50.00	ppb		0.00	
System Monitoring Compounds								
45) surr4,Dibrflmethane	5.584	113	376672	53.57	ppb		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.14%					
48) surr1,1,2-dichloroetha...	6.090	65	407498	51.02	ppb		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.04%					
65) SURR3,Toluene-d8	8.529	98	1616335	56.10	ppb		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.20%					
70) SURR2,BFB	11.047	95	618994	55.07	ppb		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.14%					
Target Compounds							Qvalue	
18) Carbon Disulfide	2.628	76	4054	0.23	ppb		90	
34) cis-1,2-Dichloroethene	4.700	96	5786	0.90	ppb	#	73	< MRL

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

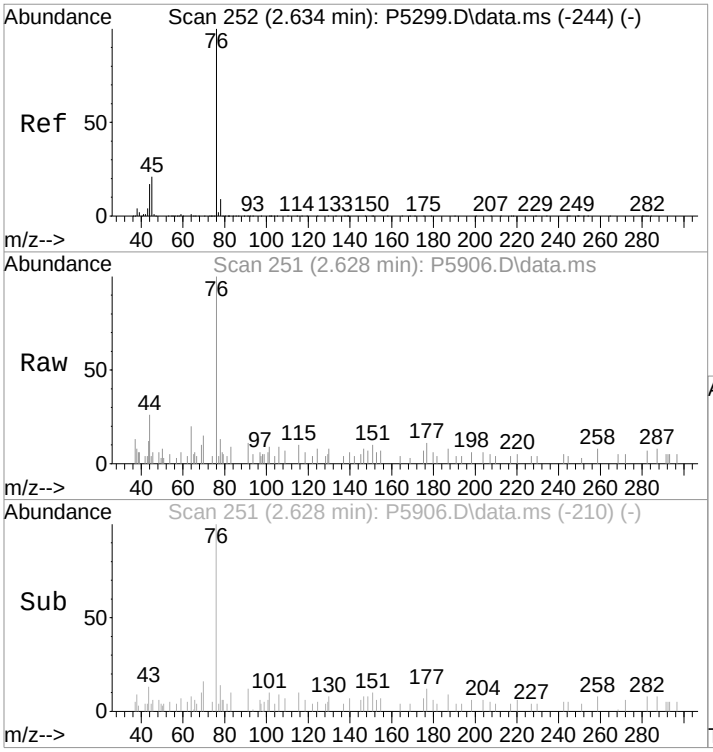
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5906.D
Acq On : 24 Oct 2016 6:23 pm
Operator : K.Ruest
Sample : R1611185-006|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 25 12:05:37 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



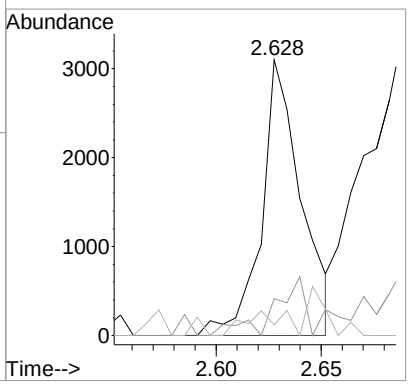
1st 10/25/16
2nd 10/25/16

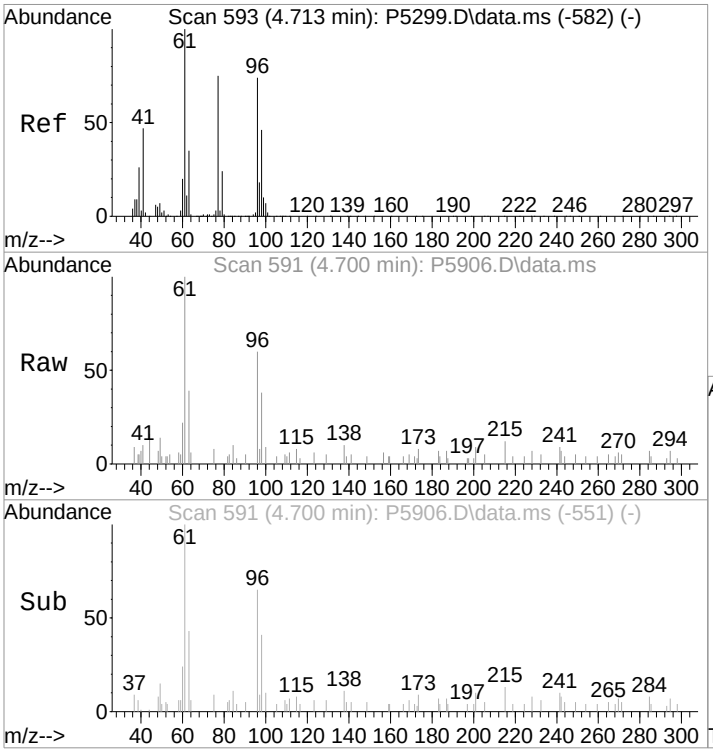


#18
Carbon Disulfide
Concen: 0.23 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P5906.D
Acq: 24 Oct 2016 6:23 pm

Tgt Ion: 76 Resp: 4054

Ion	Ratio	Lower	Upper
76	100		
78	13.4	0.0	29.3
77	3.8	0.0	22.5

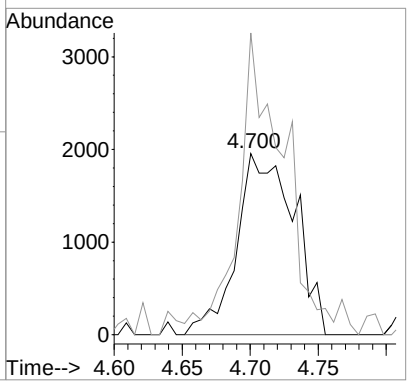




#34
cis-1,2-Dichloroethene
Concen: 0.90 ppb
RT: 4.700 min Scan# 591
Delta R.T. -0.012 min
Lab File: P5906.D
Acq: 24 Oct 2016 6:23 pm

Tgt Ion: 96 Resp: 5786

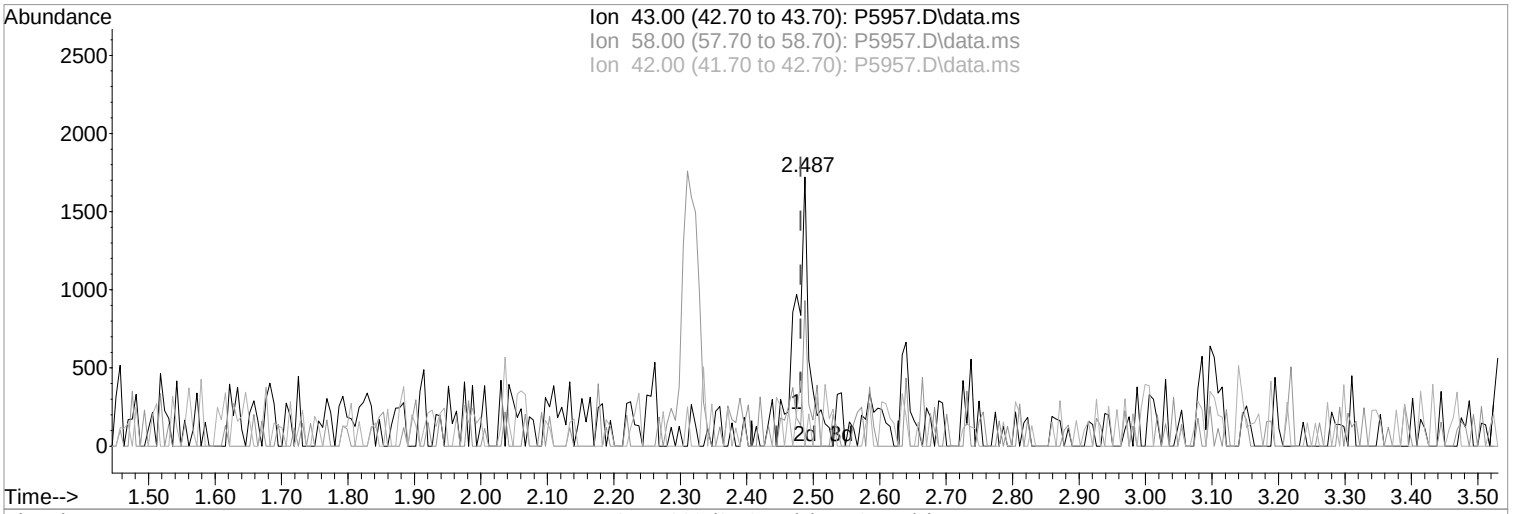
Ion	Ratio	Lower	Upper
96	100		
61	166.5	114.6	154.6#

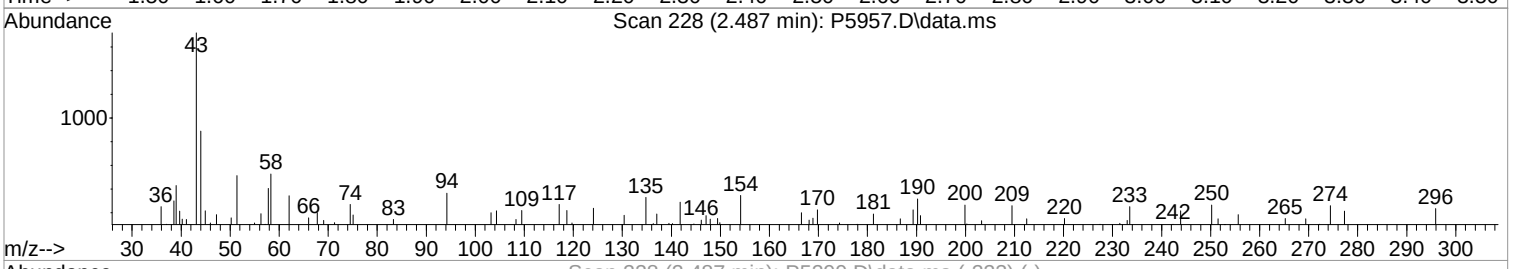


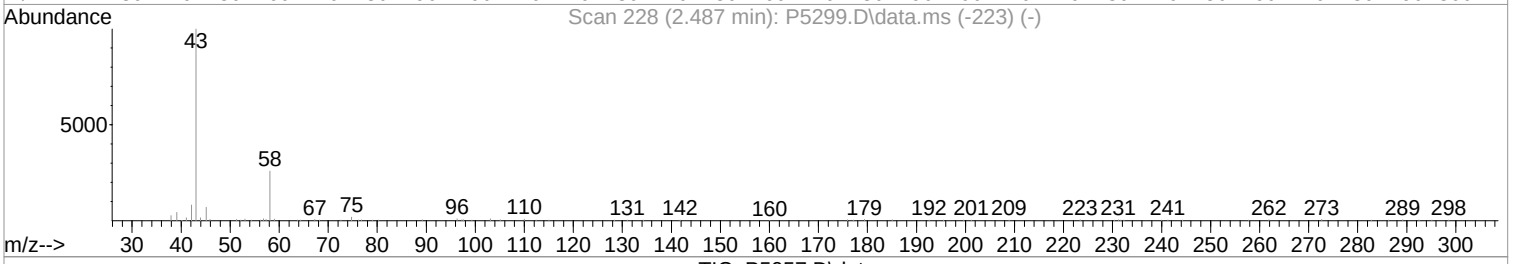
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5957.D
Acq On : 26 Oct 2016 12:22 pm
Operator : K.Ruest
Sample : R1611185-007|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 13:08:18 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5957.D\data.ms

(15) Acetone (P)

2.487min (+0.006) 1.85 ppb m

response 2451

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	30.62
42.00	8.70	0.00
0.00	0.00	0.00

Manual Integration:

After

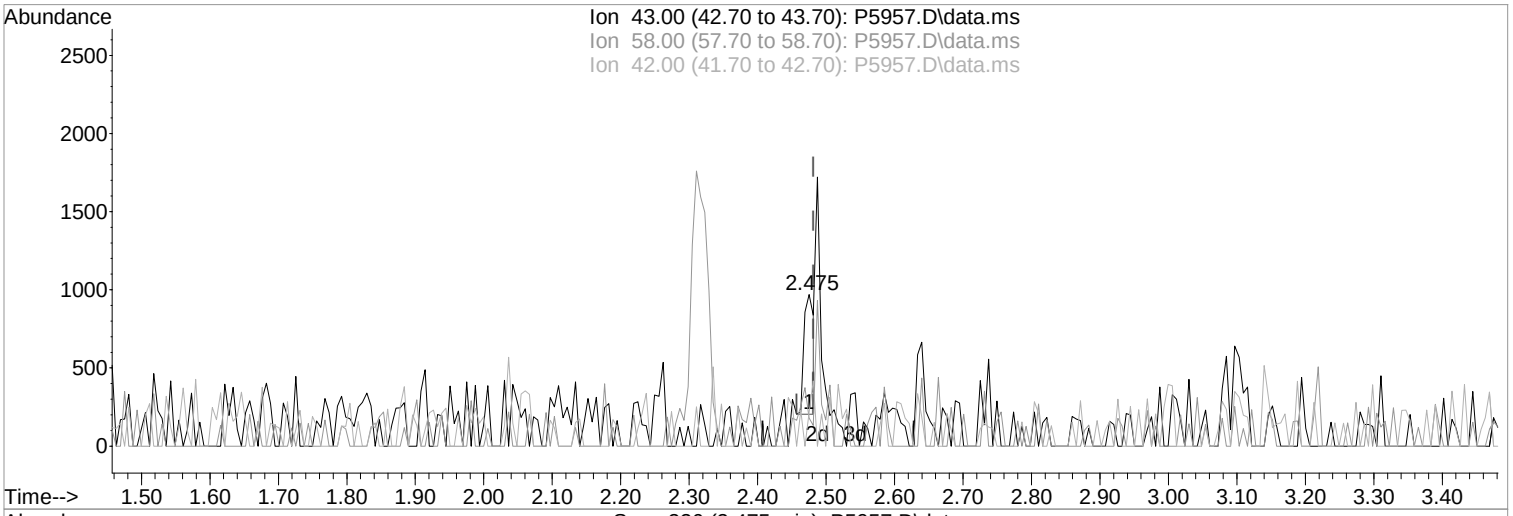
Split Peak

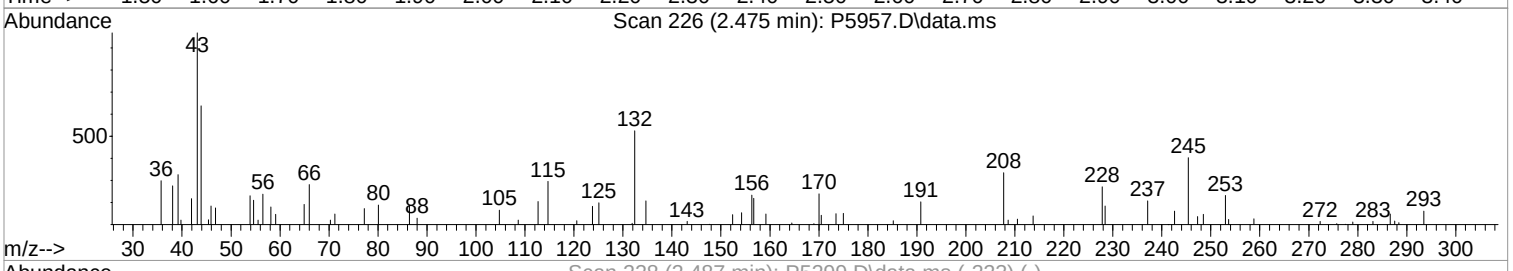
10/26/16

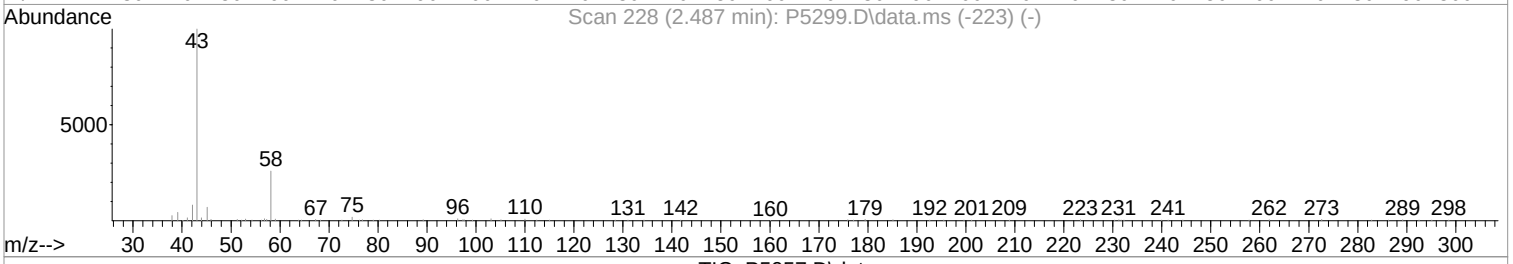
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5957.D
Acq On : 26 Oct 2016 12:22 pm
Operator : K.Ruest
Sample : R1611185-007|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 13:08:18 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5957.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 0.57 ppb

response 755

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	18.47
42.00	8.70	22.39
0.00	0.00	0.00

Manual Integration:

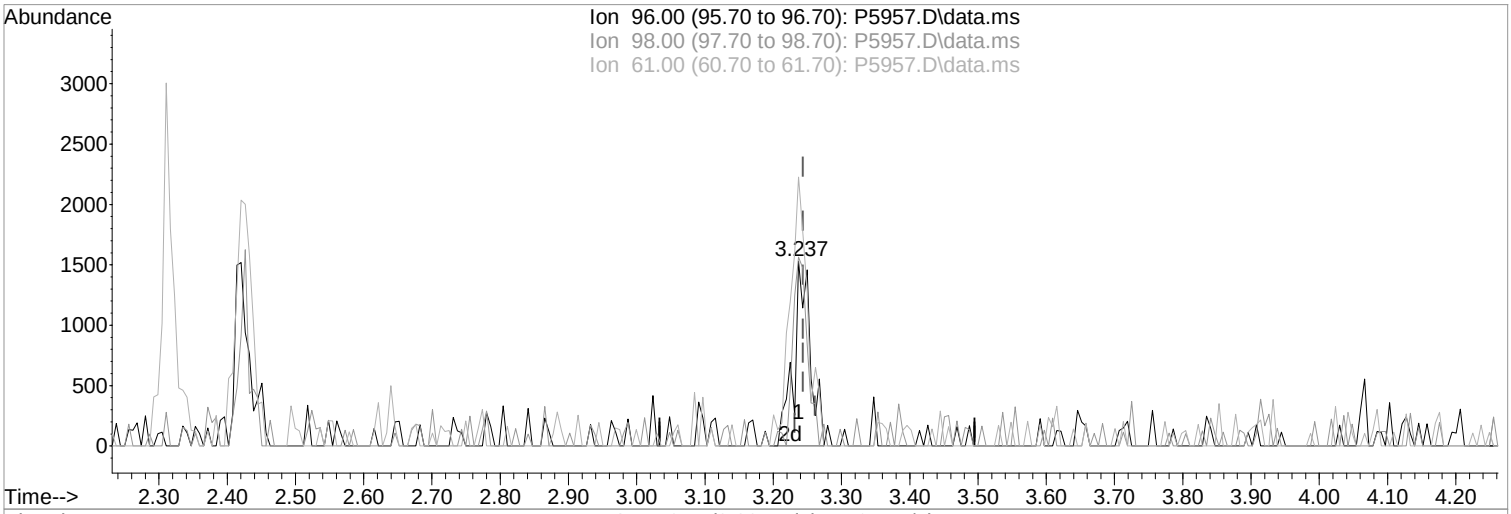
Before

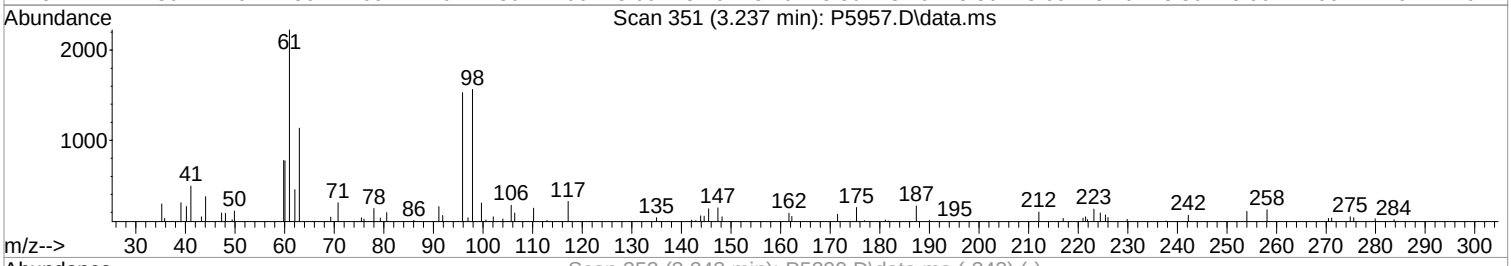
10/26/16

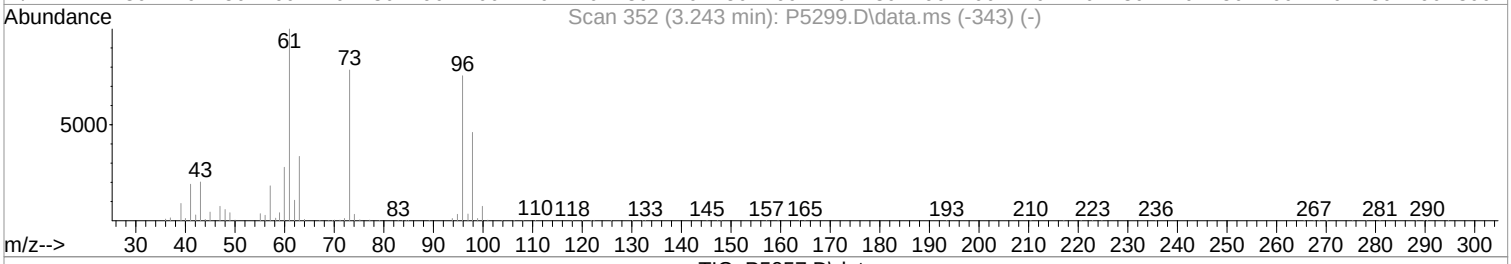
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5957.D
Acq On : 26 Oct 2016 12:22 pm
Operator : K.Ruest
Sample : R1611185-007|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 13:08:18 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5957.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (-0.006) 0.41 ppb m

response 2600

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	102.35#
61.00	132.40	145.65
0.00	0.00	0.00

Manual Integration:

After

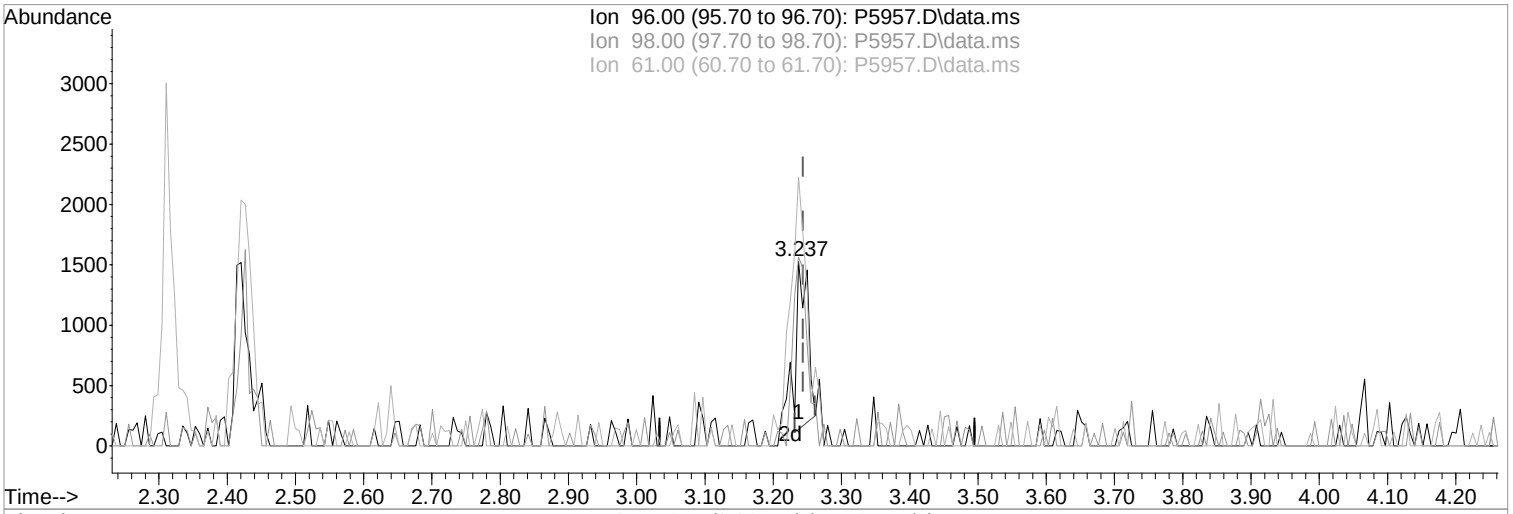
Split Peak

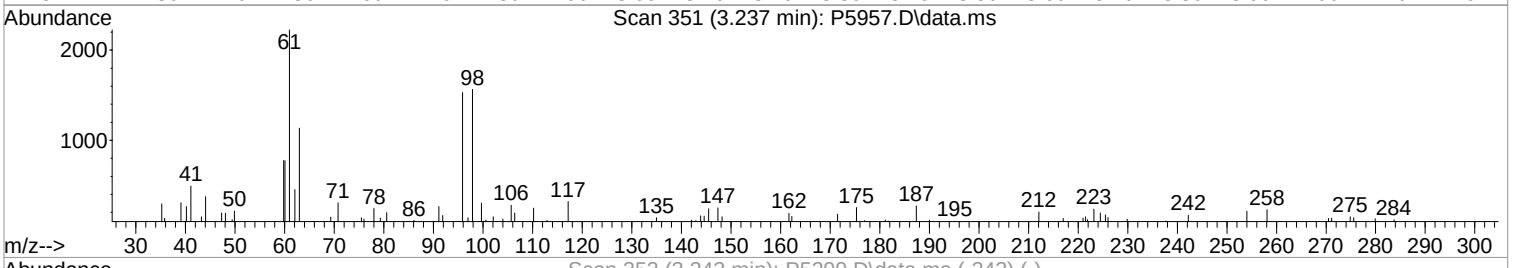
10/26/16

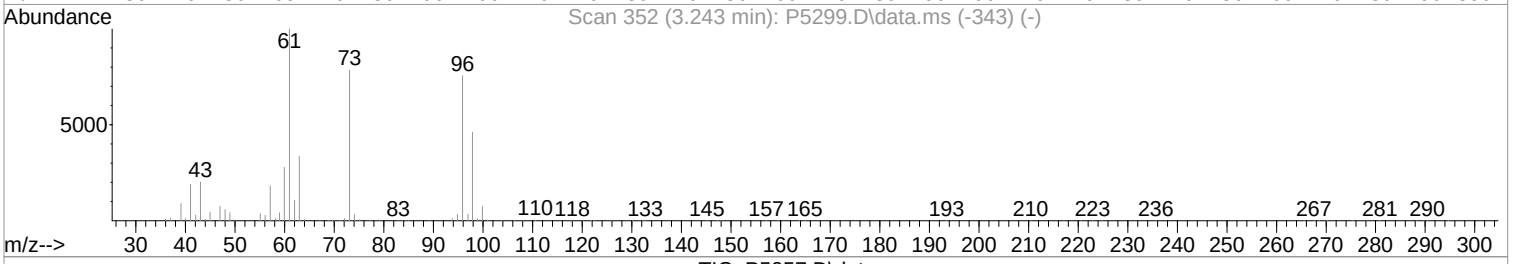
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5957.D
Acq On : 26 Oct 2016 12:22 pm
Operator : K.Ruest
Sample : R1611185-007|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 13:08:18 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5957.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (-0.006) 0.23 ppb

response 1474

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	102.35#
61.00	132.40	145.65
0.00	0.00	0.00

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5957.D
Acq On : 26 Oct 2016 12:22 pm
Operator : K.Ruest
Sample : R1611185-007|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:29:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

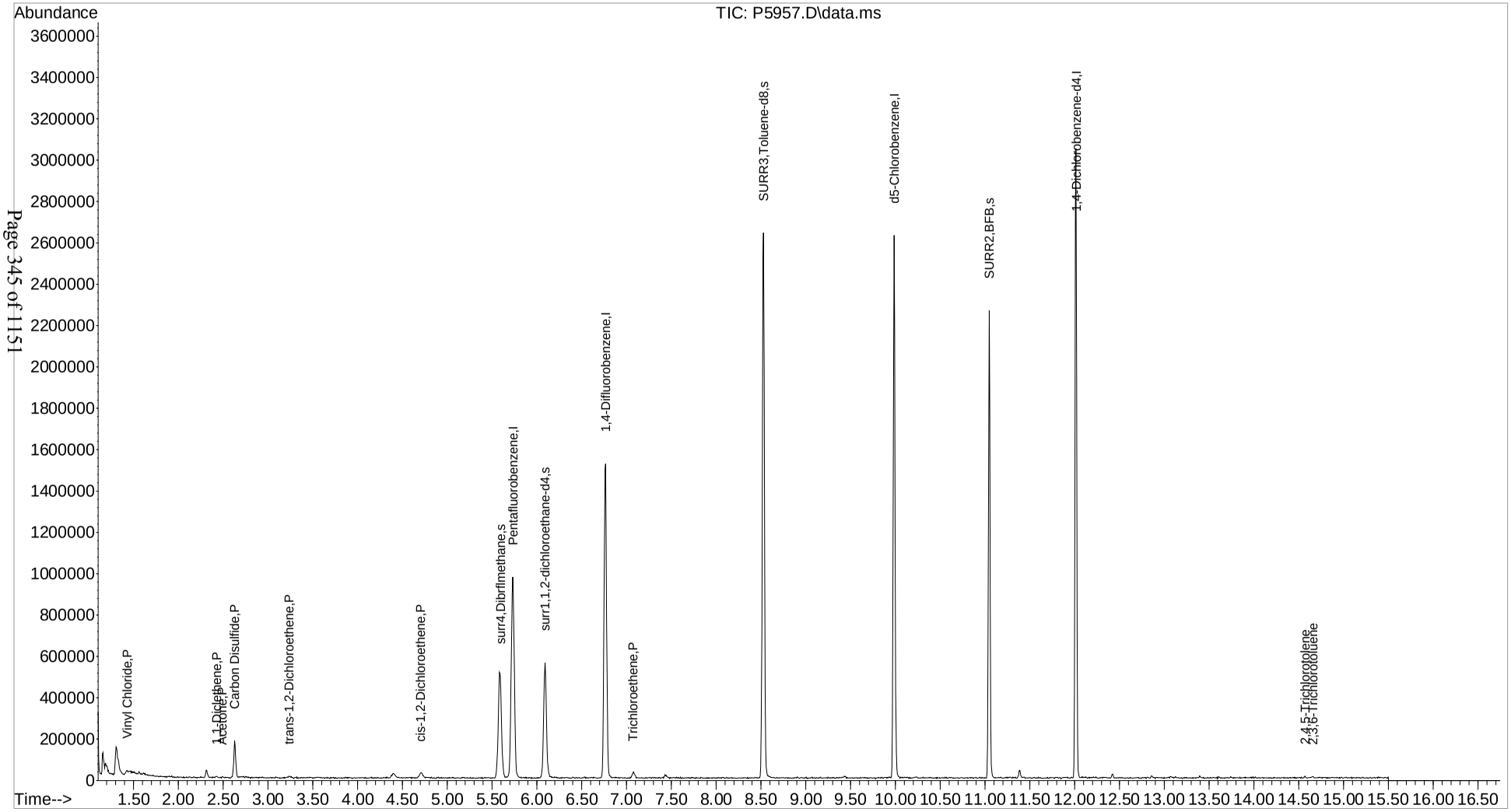
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	810641	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1310673	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1199275	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	624807	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	387904	55.45	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.90%				
48) surr1,1,2-dichloroetha...	6.090	65	428588	53.94	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.88%				
65) SURR3,Toluene-d8	8.529	98	1616874	56.41	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.82%				
70) SURR2,BFB	11.047	95	585830	52.39	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.78%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	2543	0.40	ppb	#	1
13) 1,1-Diclethene	2.420	96	2470	0.44	ppb	#	80
15) Acetone	2.487	43	2451m	1.85	ppb		
18) Carbon Disulfide	2.628	76	200920	11.32	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	2600m	0.41	ppb		
34) cis-1,2-Dichloroethene	4.700	96	13600	2.10	ppb	#	76
54) Trichloroethene	7.072	130	9361	1.35	ppb	#	80
119) 2,4,5-Trichlorotolene	14.570	159	1192	0.20	ppb	#	77
120) 2,3,6-Trichlorotoluene	14.656	159	1533	0.28	ppb	#	57

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

Quantitation Report (QT Reviewed)

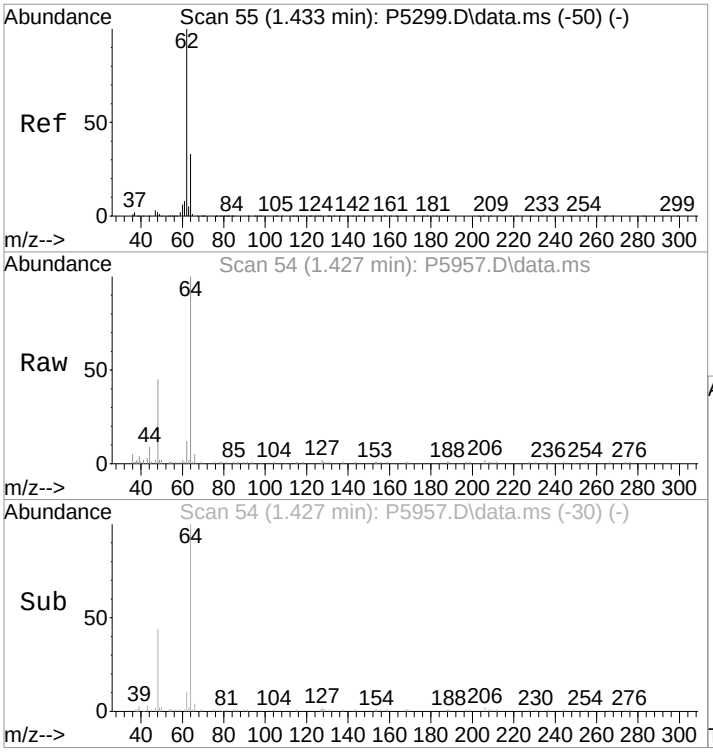
Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5957.D
Acq On : 26 Oct 2016 12:22 pm
Operator : K.Ruest
Sample : R1611185-007|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:29:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Page 345 of 1151

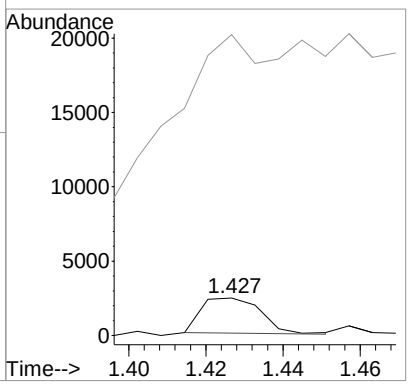
1st 10/26/16
2nd 10/27/16

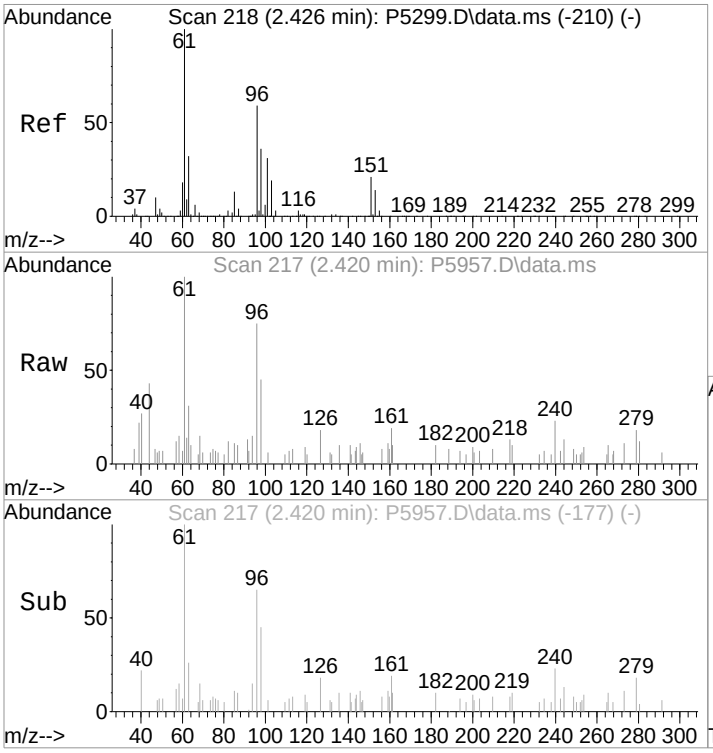


#4
Vinyl Chloride
Concen: 0.40 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion: 62 Resp: 2543

Ion	Ratio	Lower	Upper
62	100		
64	803.5	13.1	53.1#

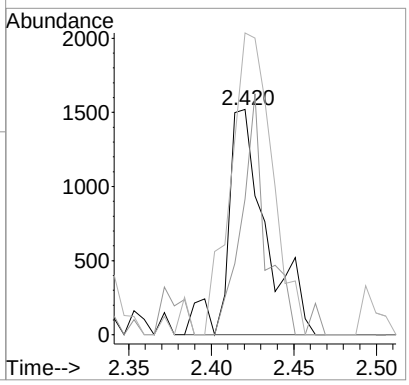


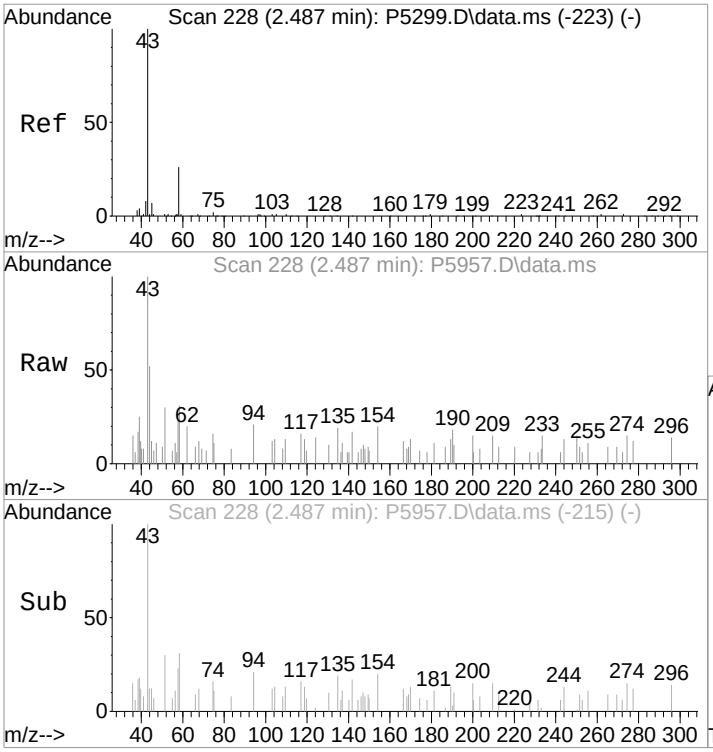


#13
1,1-Diclethene
Concen: 0.44 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion: 96 Resp: 2470

Ion	Ratio	Lower	Upper
96	100		
98	60.3	41.8	81.8
61	134.0	150.1	190.1#

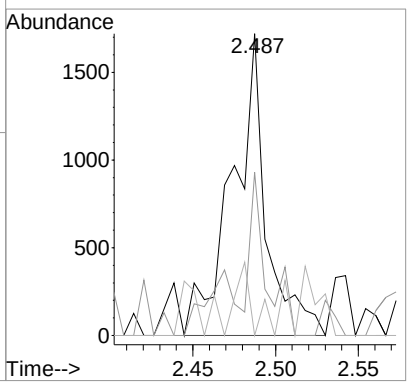


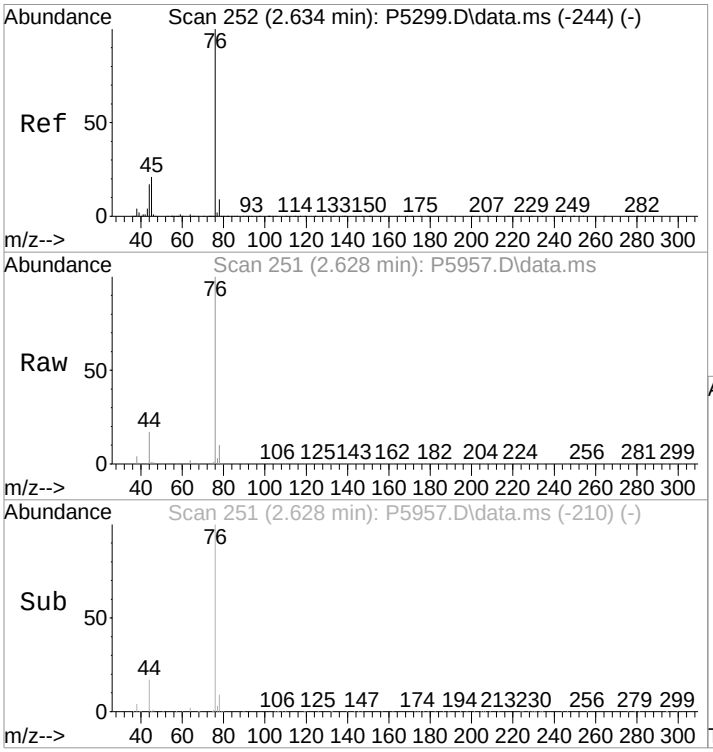


#15
Acetone
Concen: 1.85 ppb m
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion: 43 Resp: 2451

Ion	Ratio	Lower	Upper
43	100		
58	30.6	5.3	45.3
42	0.0	0.0	28.7

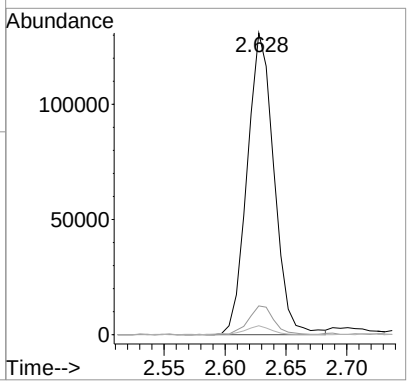


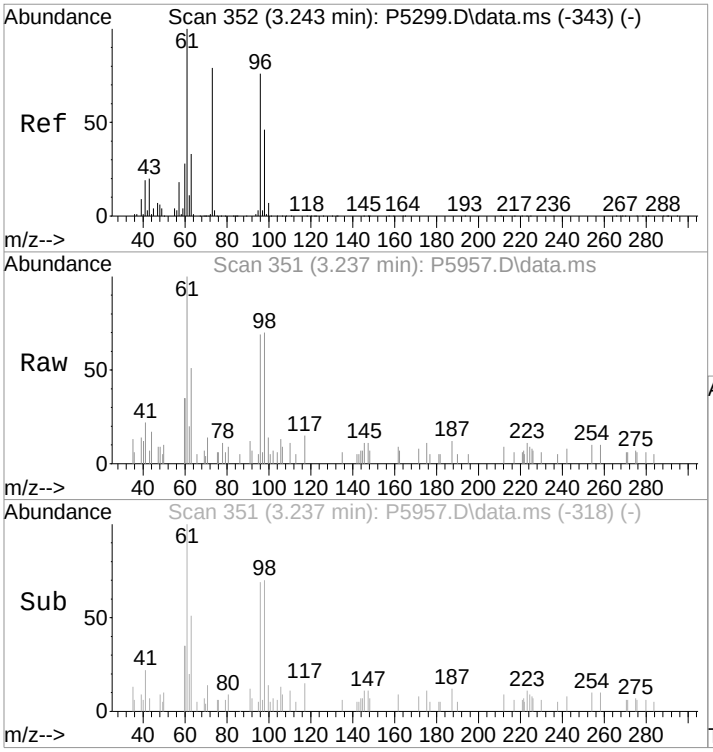


#18
Carbon Disulfide
Concen: 11.32 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion: 76 Resp: 200920

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.3
77	3.0	0.0	22.5

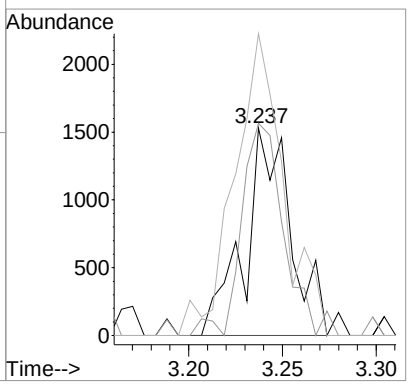


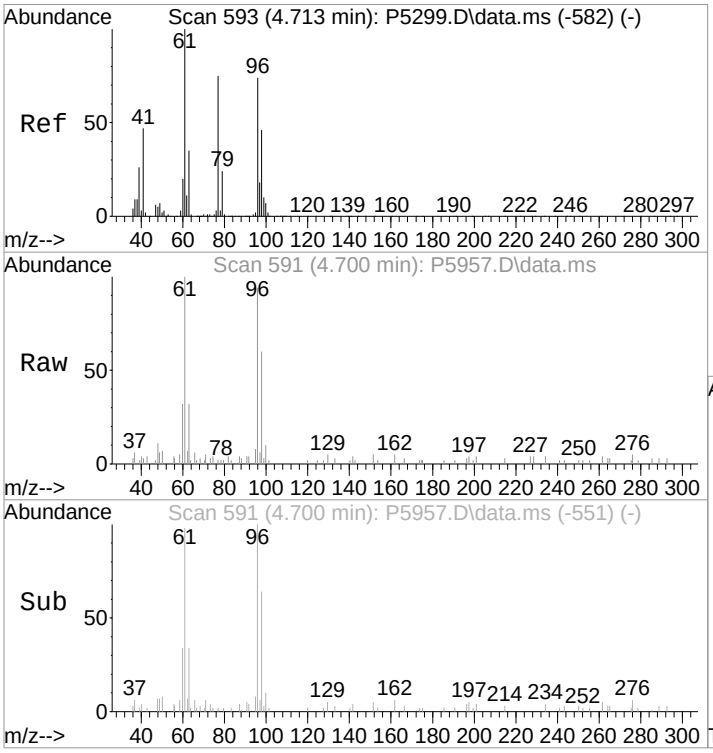


#26
trans-1,2-Dichloroethene
Concen: 0.41 ppb m
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion: 96 Resp: 2600

Ion	Ratio	Lower	Upper
96	100		
98	102.4	41.0	81.0#
61	145.7	112.4	152.4

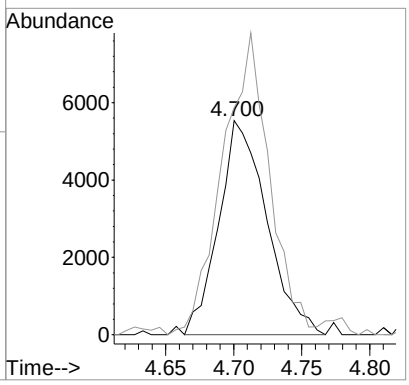


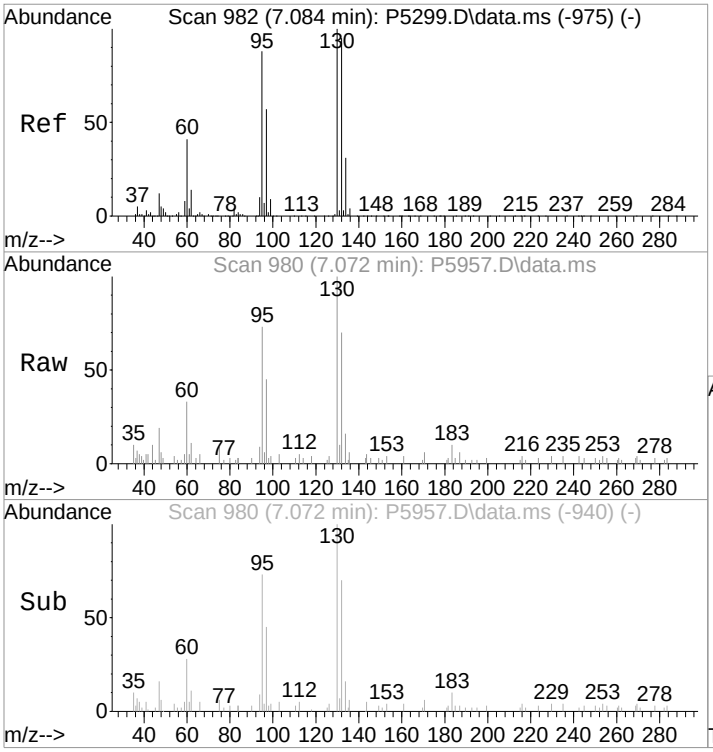


#34
cis-1,2-Dichloroethene
Concen: 2.10 ppb
RT: 4.700 min Scan# 591
Delta R.T. -0.012 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion: 96 Resp: 13600

Ion	Ratio	Lower	Upper
96	100		
61	106.0	114.6	154.6#

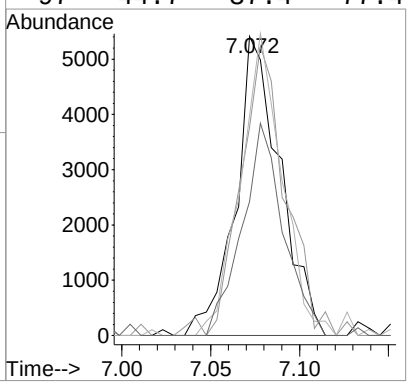


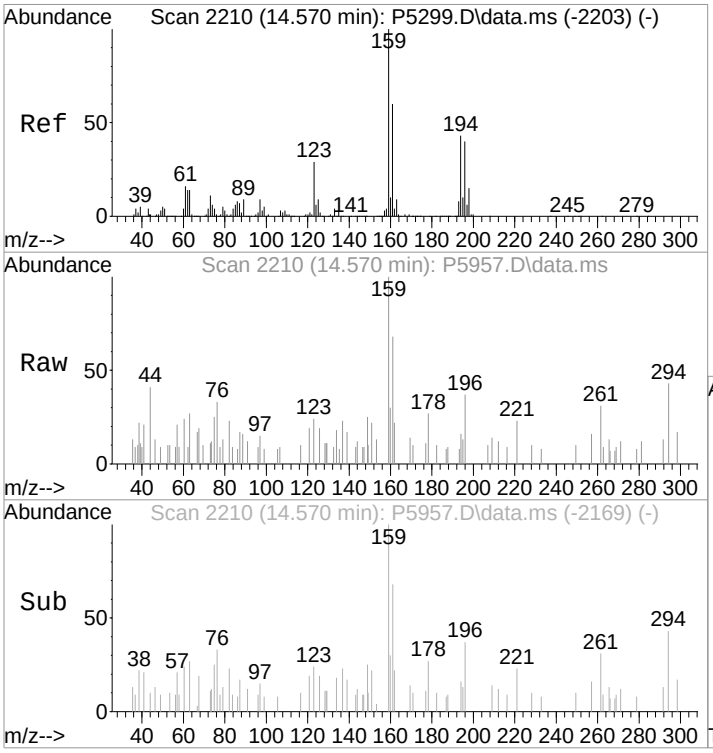


#54
Trichloroethene
Concen: 1.35 ppb
RT: 7.072 min Scan# 980
Delta R.T. -0.006 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion:130 Resp: 9361

Ion	Ratio	Lower	Upper
130	100		
132	69.5	75.2	115.2#
95	73.4	68.1	108.1
97	44.7	37.4	77.4

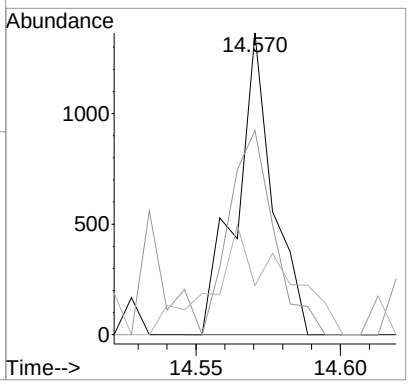


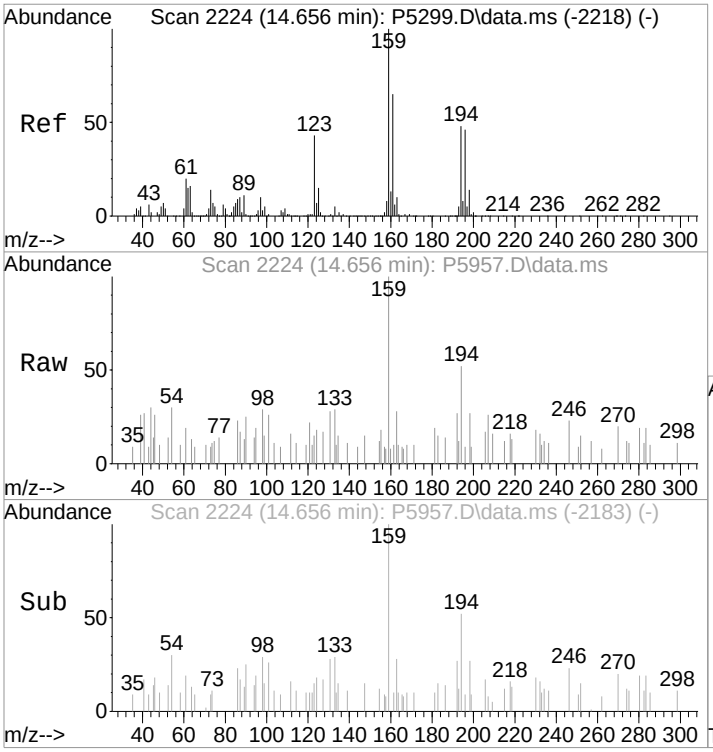


#119
2,4,5-Trichlorotolene
Concen: 0.20 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion:159 Resp: 1192

Ion	Ratio	Lower	Upper
159	100		
161	67.6	48.1	72.1
194	16.3	34.5	51.7#

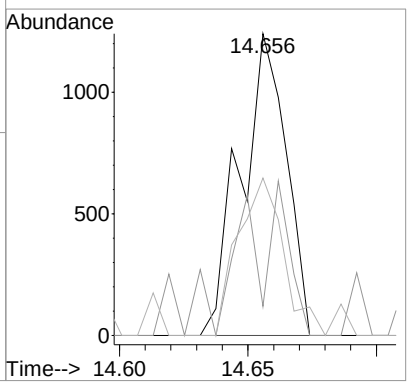




#120
2,3,6-Trichlorotoluene
Concen: 0.28 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P5957.D
Acq: 26 Oct 2016 12:22 pm

Tgt Ion:159 Resp: 1533

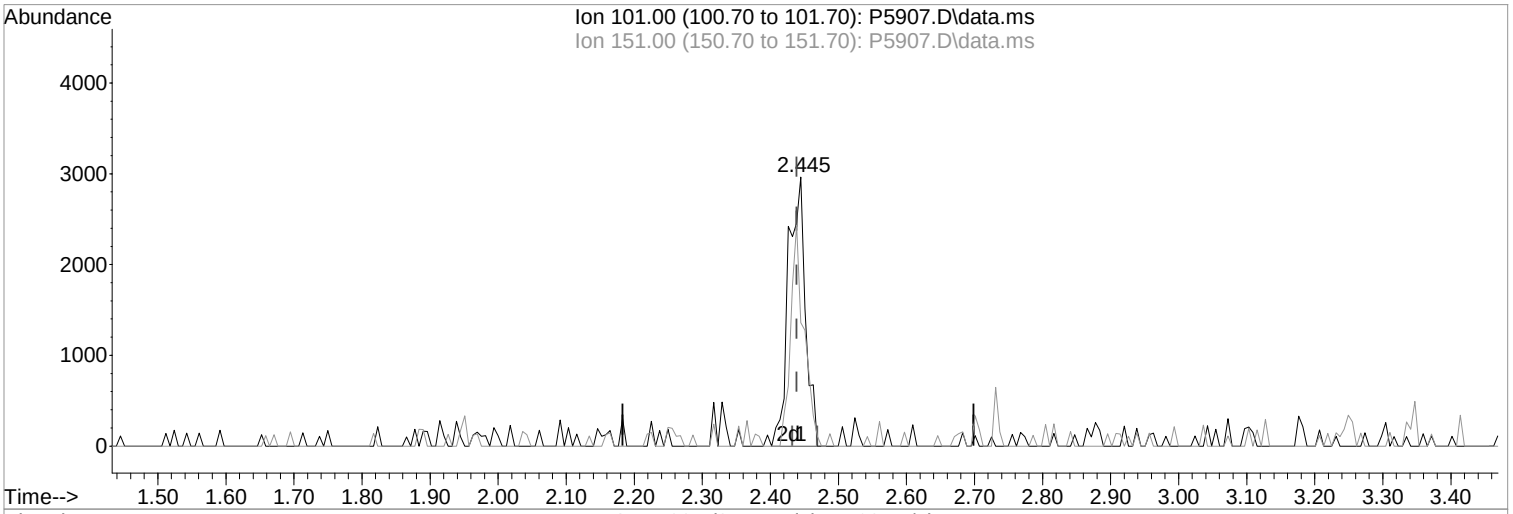
Ion	Ratio	Lower	Upper
159	100		
161	9.7	52.3	78.5#
194	52.2	38.6	57.8

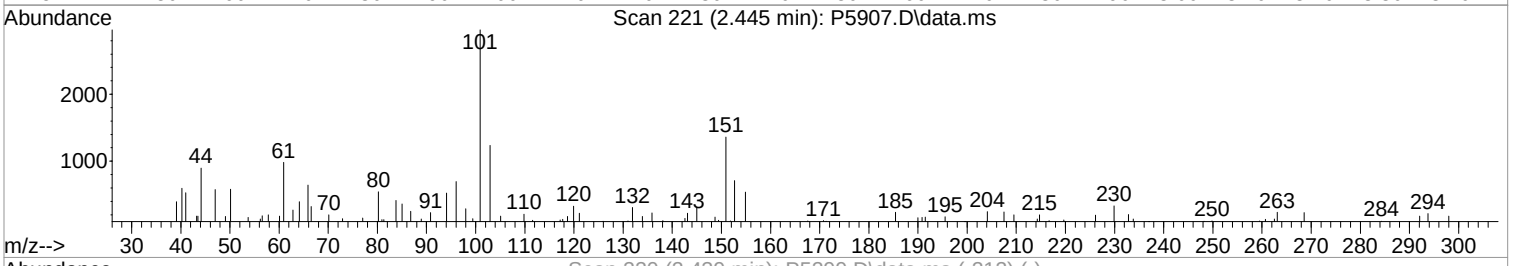


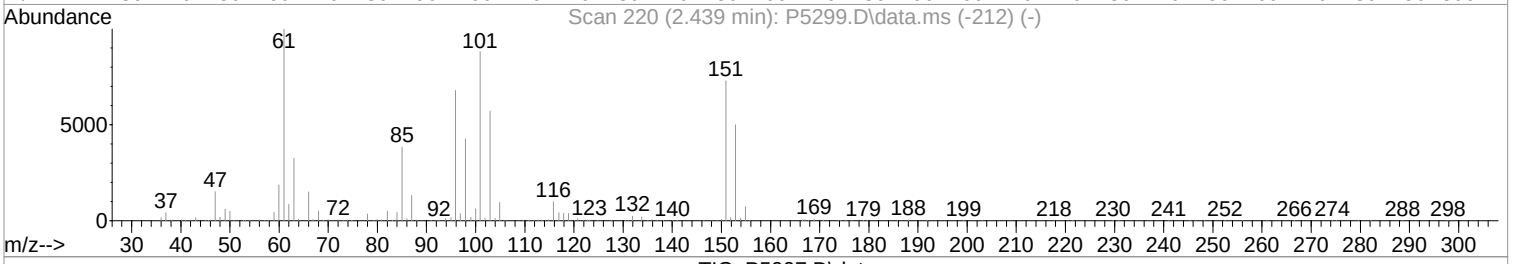
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

(14) Freon 113 (P)

2.445min (+0.006) 0.87 ppb m

response 5131

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	45.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

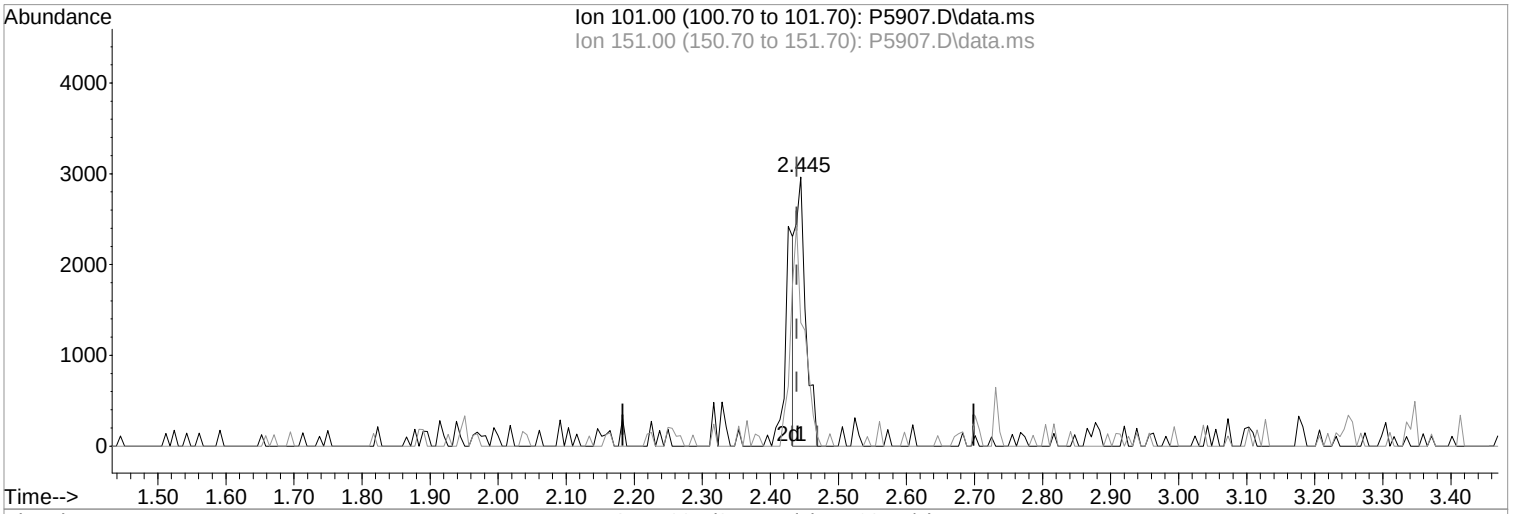
Split Peak

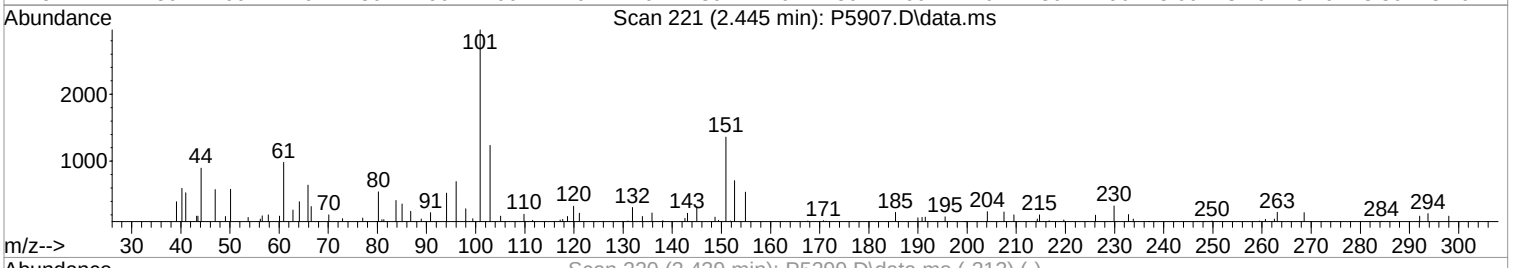
10/25/16

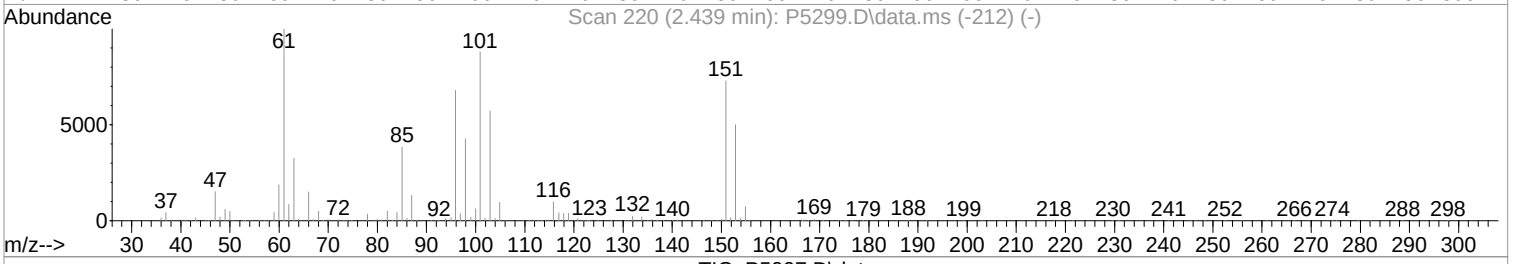
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

(14) Freon 113 (P)

2.445min (+0.006) 0.52 ppb

response 3028

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	45.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

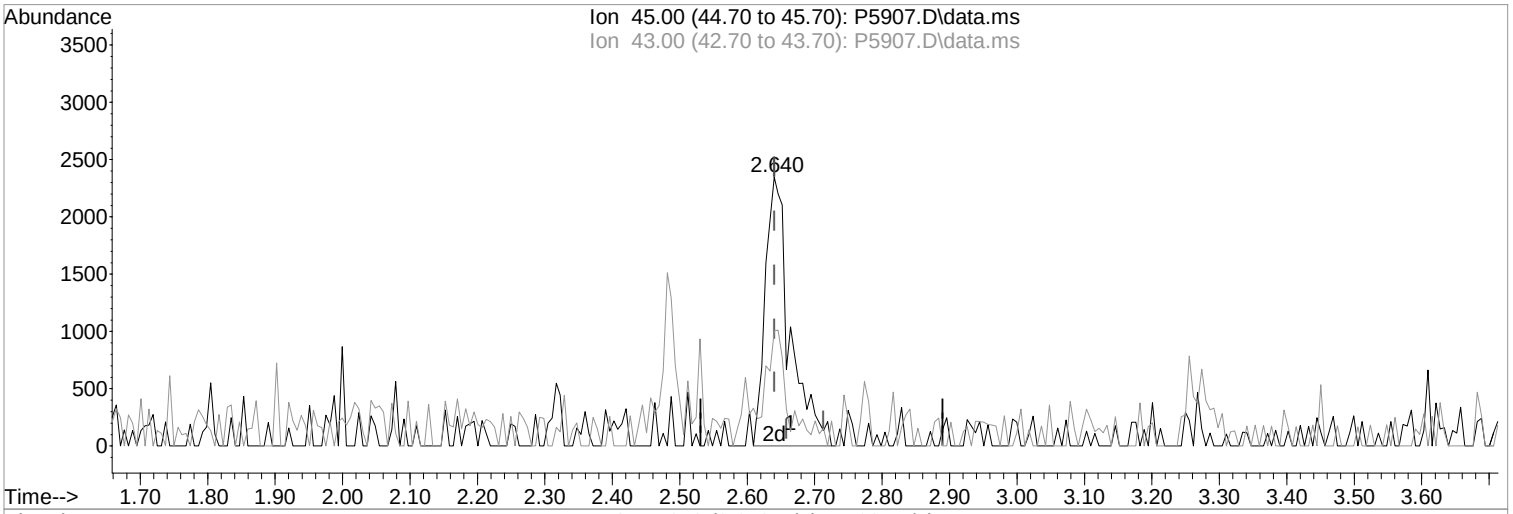
Before

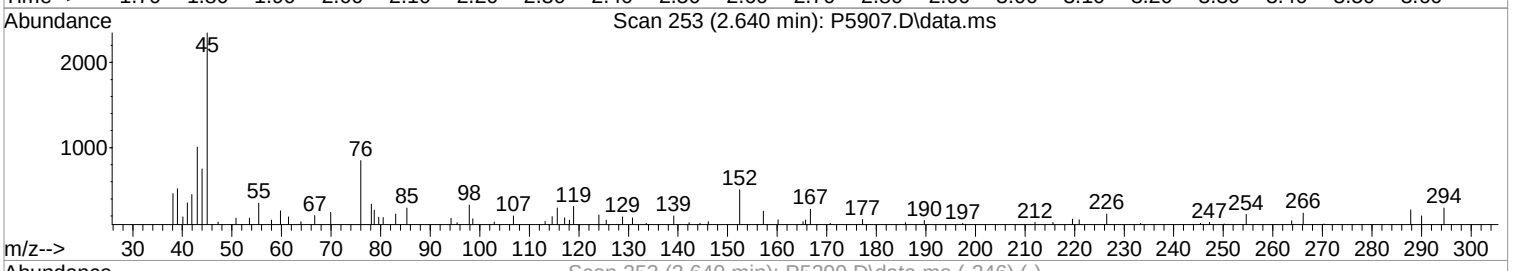
10/25/16

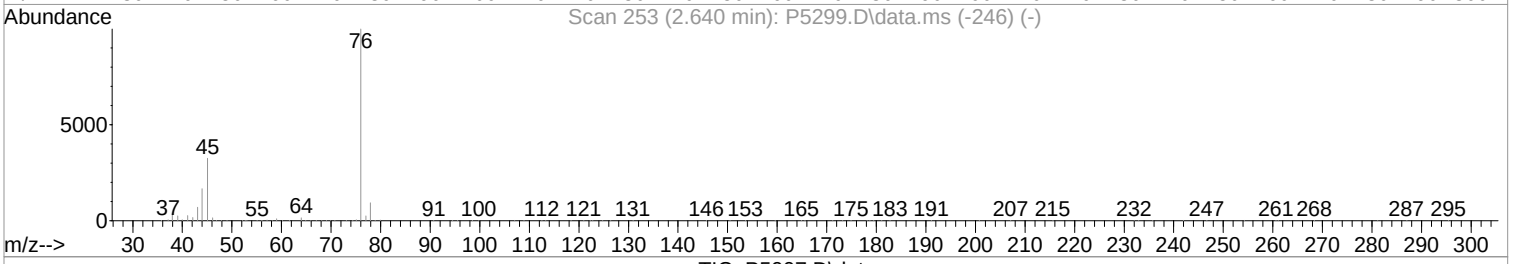
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

(16) 2-Propanol

2.640min (-0.000) 21.70 ppb m

response 6009

Ion	Exp%	Act%
45.00	100	100
43.00	21.60	42.80#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

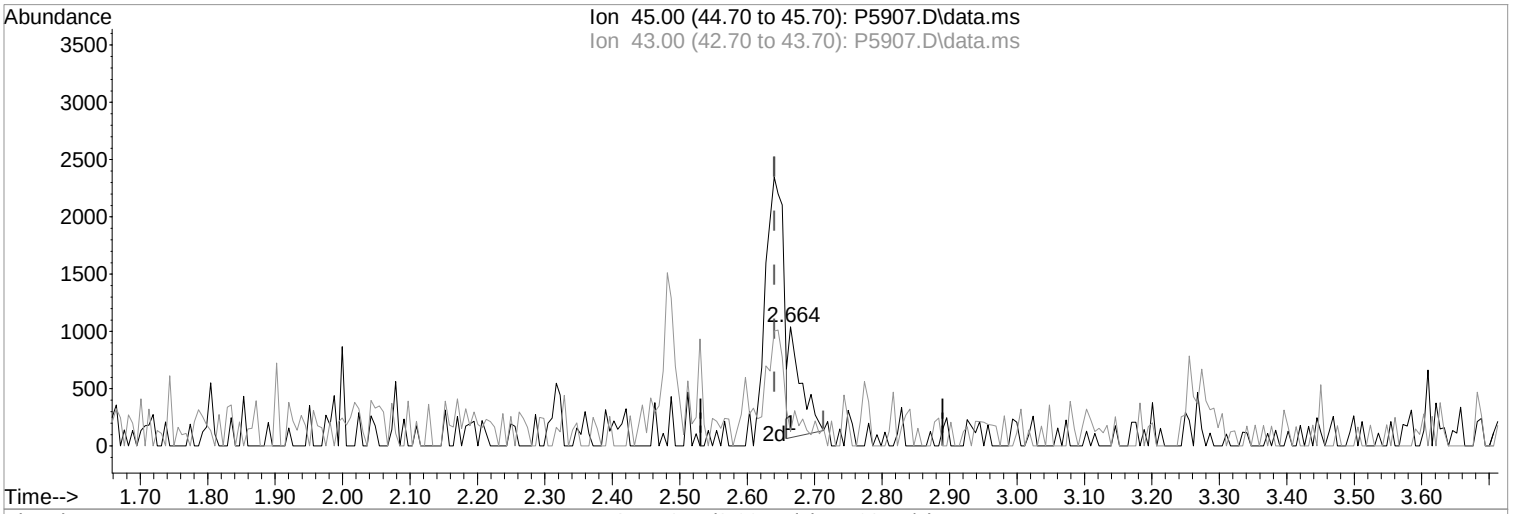
Split Peak

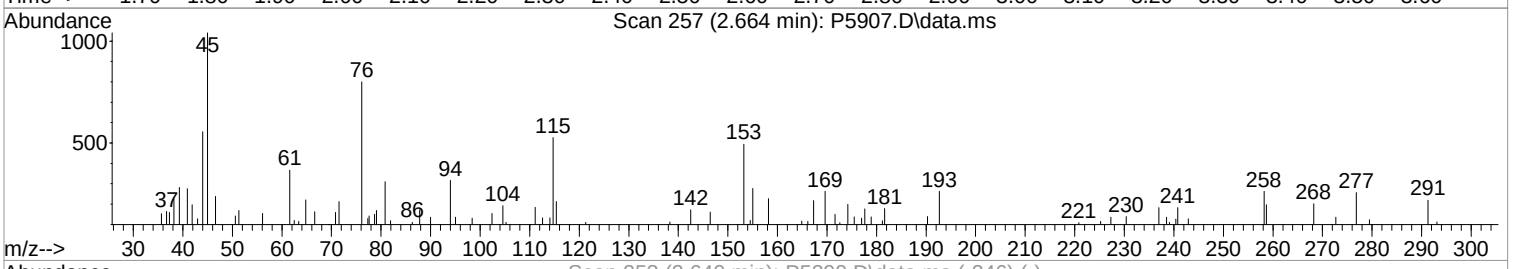
10/25/16

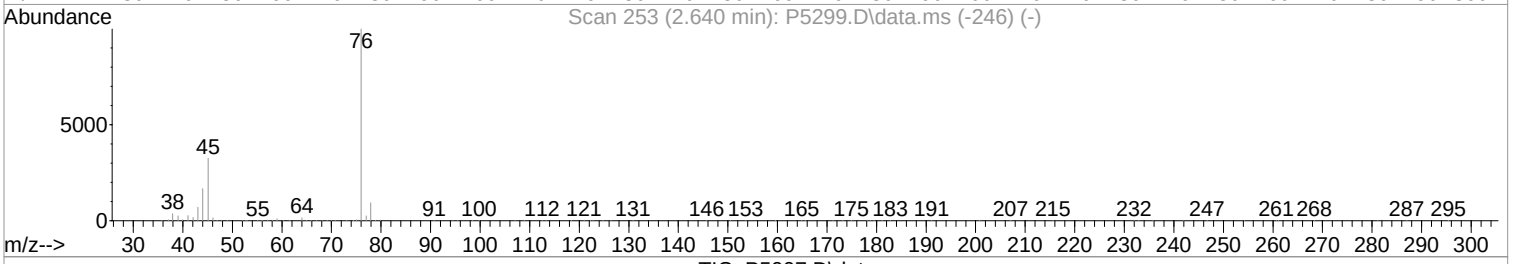
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

(16) 2-Propanol

2.664min (+0.024) 4.49 ppb

response 1244

Ion	Exp%	Act%
45.00	100	100
43.00	21.60	12.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

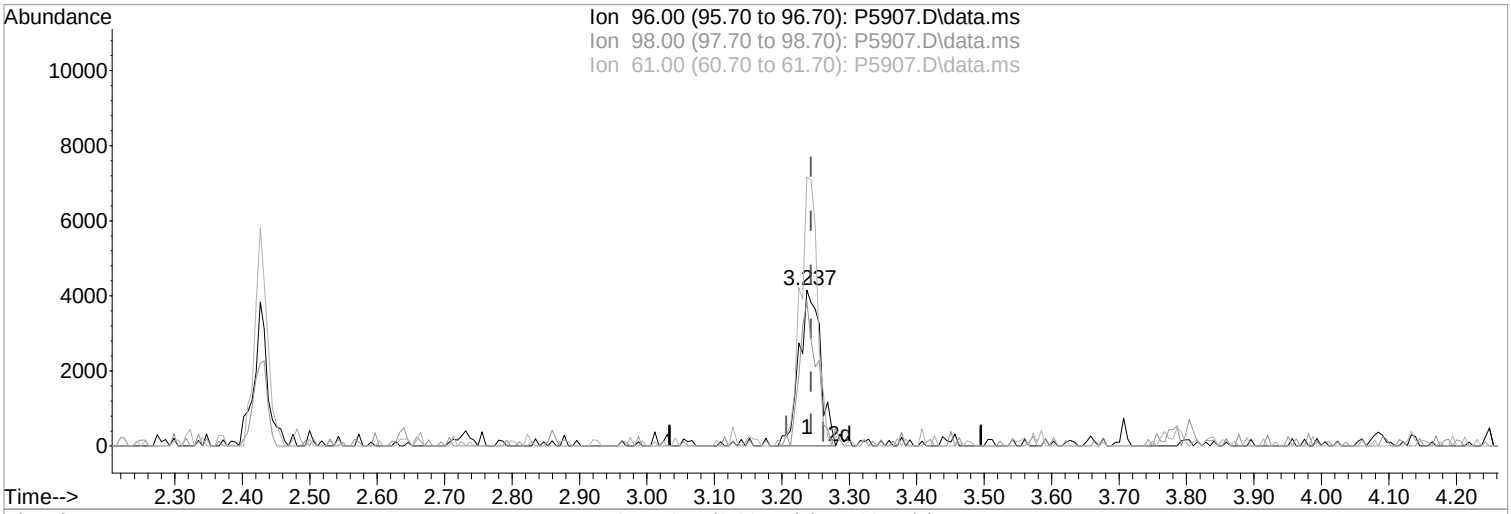
Before

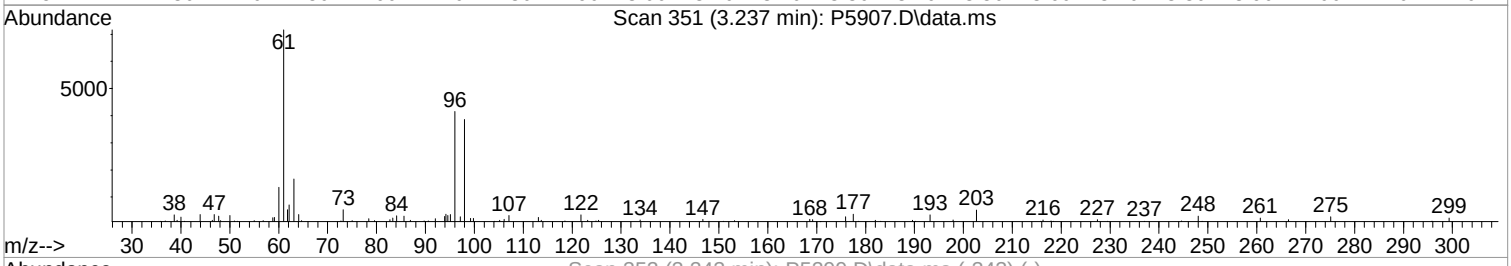
10/25/16

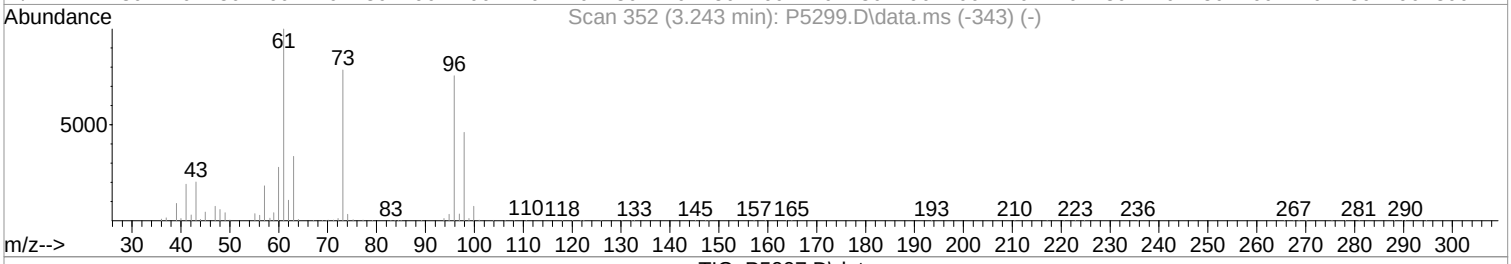
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (-0.006) 1.46 ppb m

response 9067

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	92.78#
61.00	132.40	172.47#
0.00	0.00	0.00

Manual Integration:

After

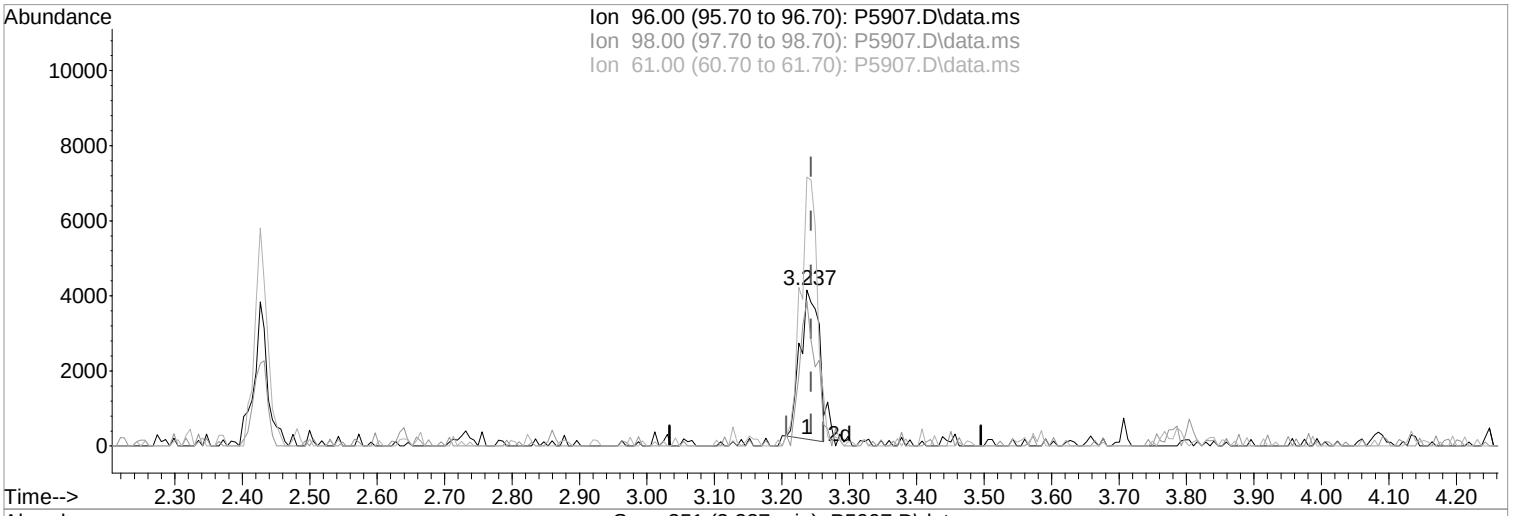
Split Peak

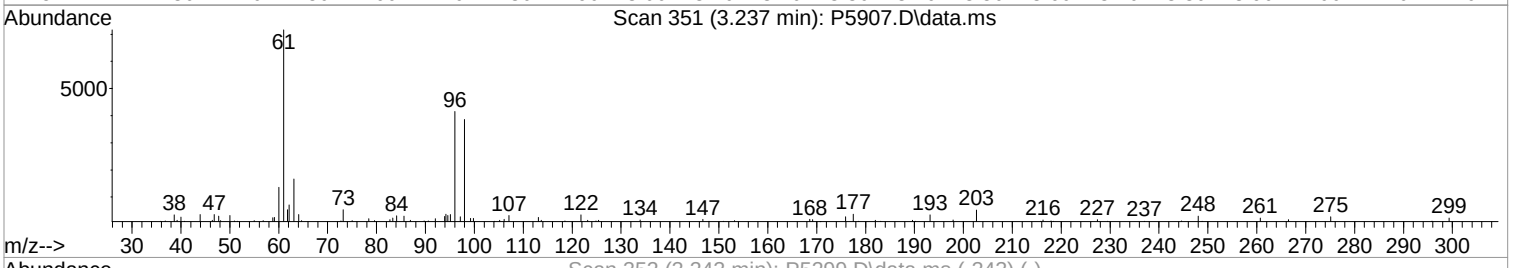
10/25/16

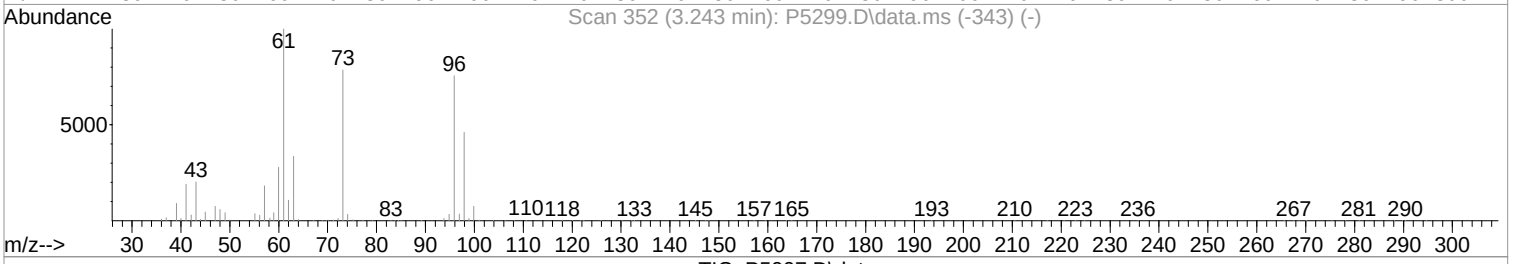
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (-0.006) 1.23 ppb

response 7634

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	92.78#
61.00	132.40	172.47#
0.00	0.00	0.00

Manual Integration:

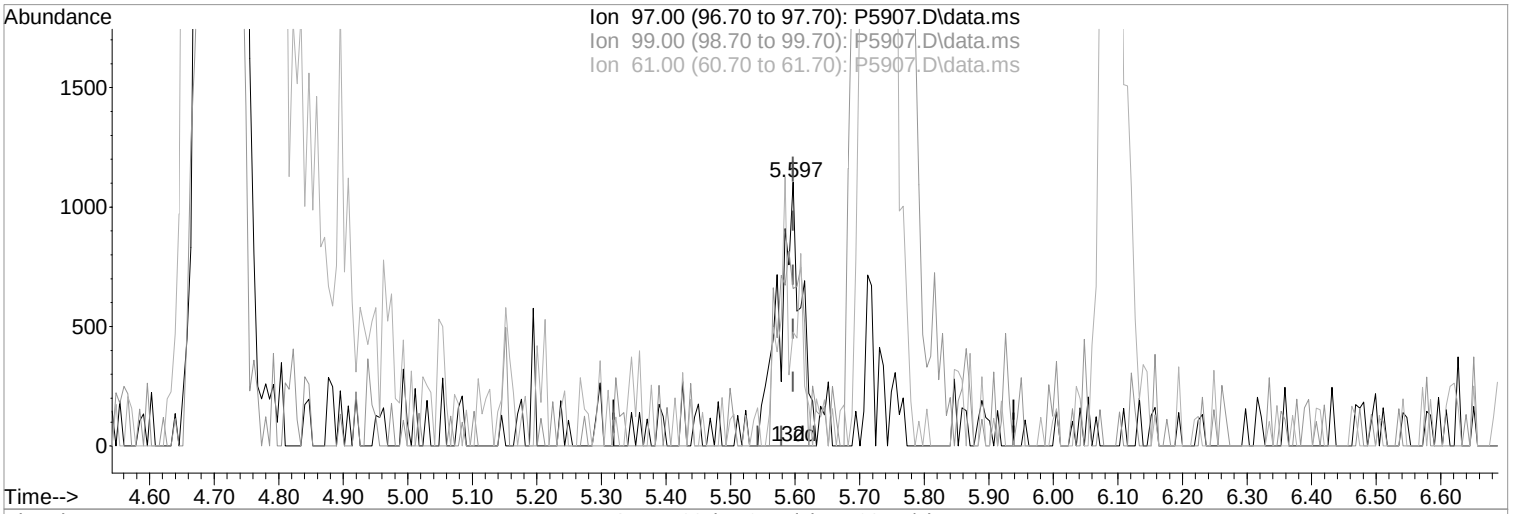
Before

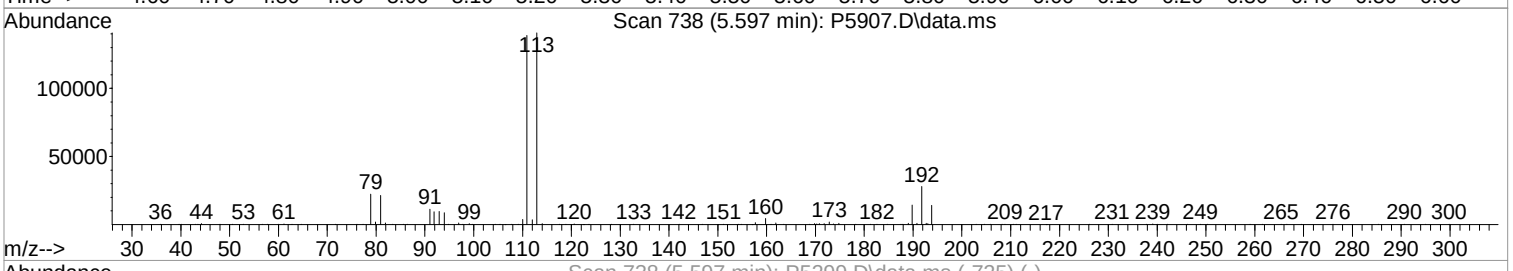
10/25/16

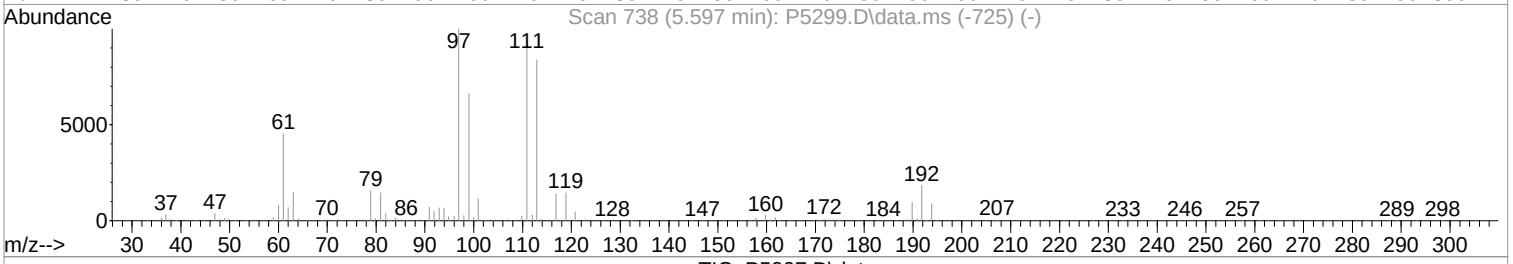
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

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

5.597min (-0.000) 0.28 ppb m

response 2642

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	59.69
61.00	45.30	43.21
0.00	0.00	0.00

Manual Integration:

After

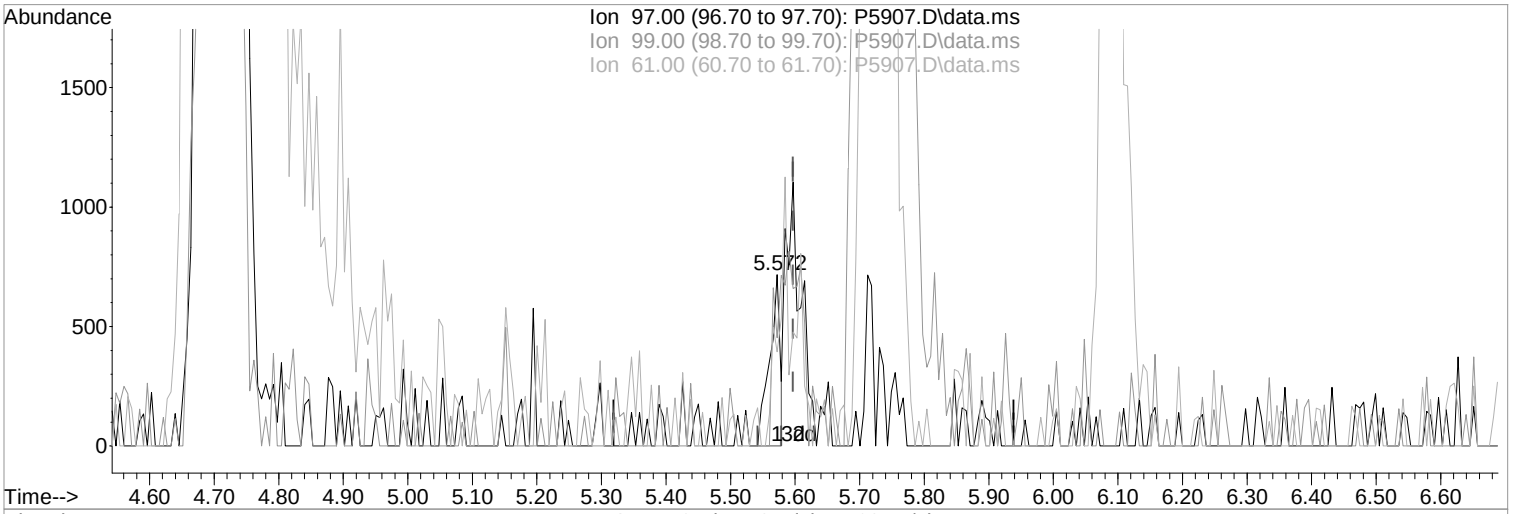
Split Peak

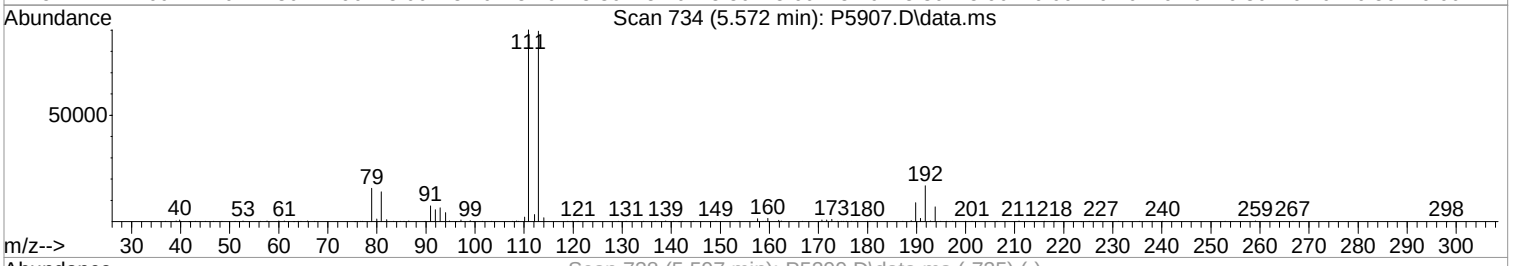
10/25/16

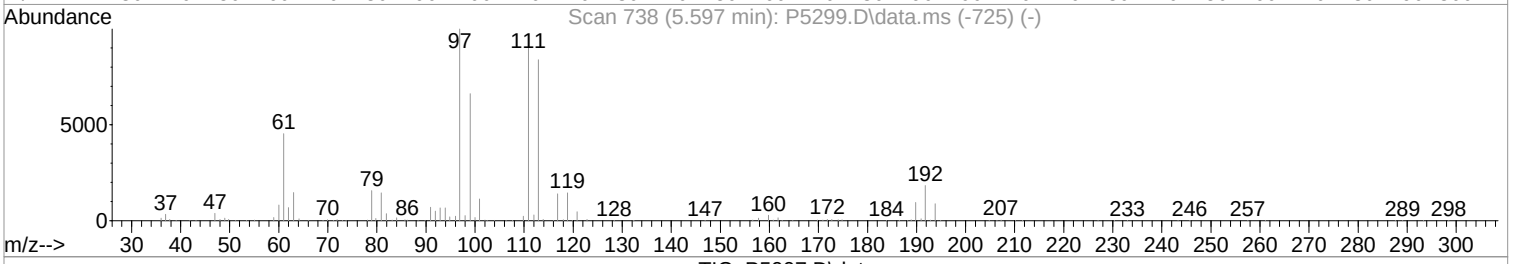
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 09:16:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5907.D\data.ms

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

5.572min (-0.024) 0.09 ppb

response 807

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	77.55
61.00	45.30	54.95
0.00	0.00	0.00

Manual Integration:

Before

10/25/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 12:23:15 2016 repeat 10
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	796180	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1302722	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1242772	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	656778	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	385048	55.38	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.76%				
48) surr1,1,2-dichloroetha...	6.090	65	414127	52.43	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.86%				
65) SURR3,Toluene-d8	8.529	98	1592285	55.89	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.78%				
70) SURR2,BFB	11.047	95	614617	55.30	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.60%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	545453	86.59	ppb		97
7) Freon 21	1.920	67	7295	0.87	ppb		93
10) Freon 123a	2.231	67	4041	0.80	ppb	#	77
13) 1,1-Diclethene	2.426	96	5445	0.98	ppb		88
14) Freon 113	2.445	101	5131m	0.87	ppb		
15) Acetone	2.481	43	1643	1.27	ppb		80
16) 2-Propanol	2.640	45	6009m	21.70	ppb		
25) Methyl-t-Butyl Ether	3.262	73	3639	0.23	ppb	#	45
26) trans-1,2-Dichloroethene	3.237	96	9067m	1.46	ppb		
28) 1,1-Diclethane	3.780	63	11126	1.08	ppb		78
34) cis-1,2-Dichloroethene	4.713	96	1946032	306.30	ppb		94
40) Chloroform	5.316	83	2619	0.26	ppb		78
41) 1,1,1-Trichloroethane	5.597	97	2642m	0.28	ppb		
54) Trichloroethene	7.078	130	6796	0.99	ppb		90

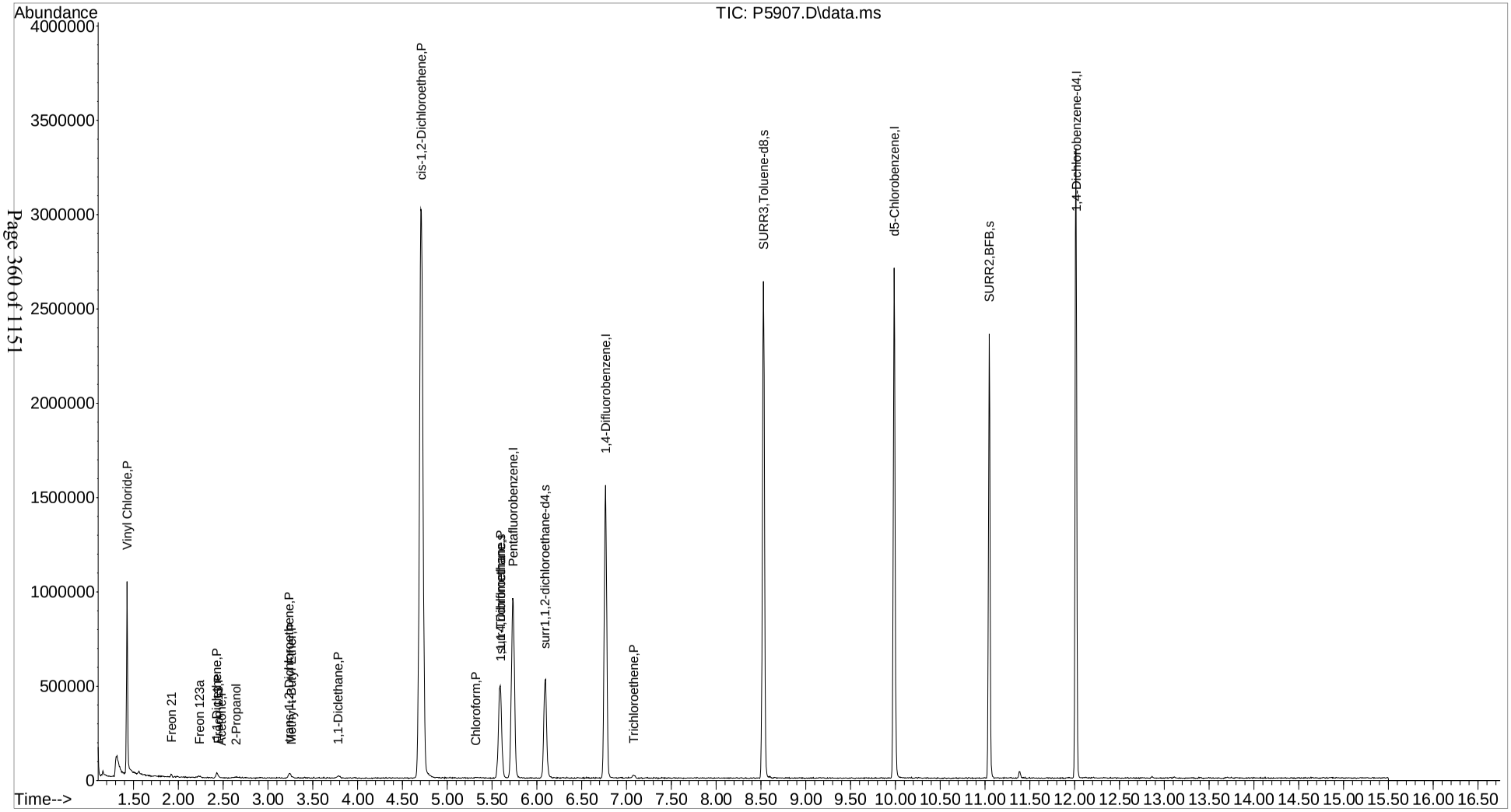
E-Over Calibration

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

Quantitation Report (QT Reviewed)

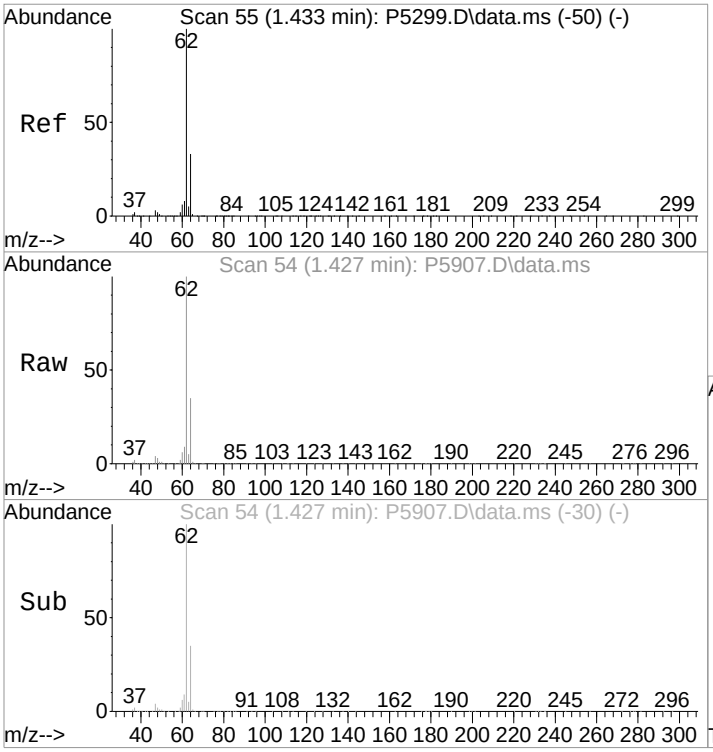
Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5907.D
Acq On : 24 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-008|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 25 12:23:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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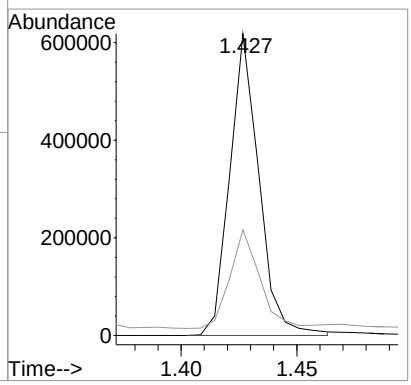
1st 10/25/16
2nd 10/25/16

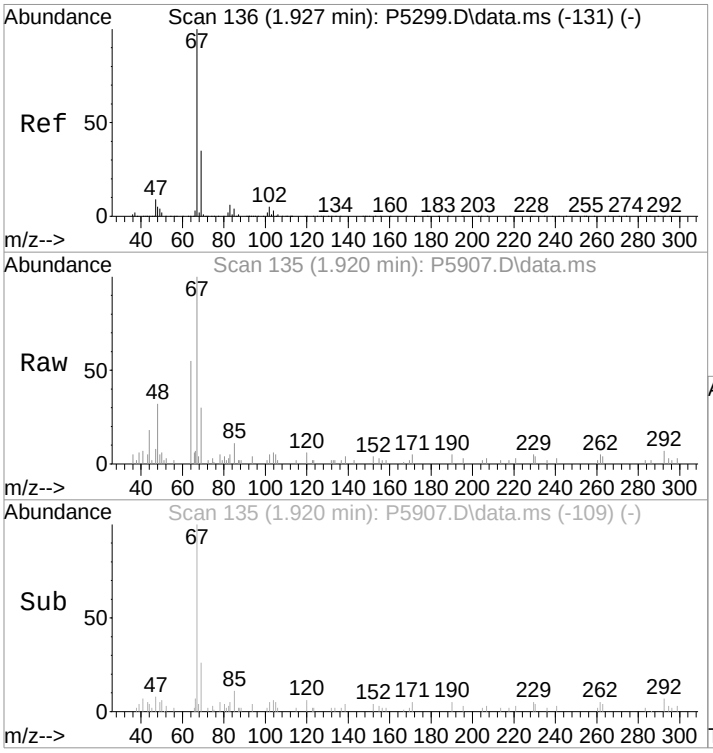


#4
Vinyl Chloride
Concen: 86.59 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 62 Resp: 545453

Ion	Ratio	Lower	Upper
62	100		
64	35.0	13.1	53.1

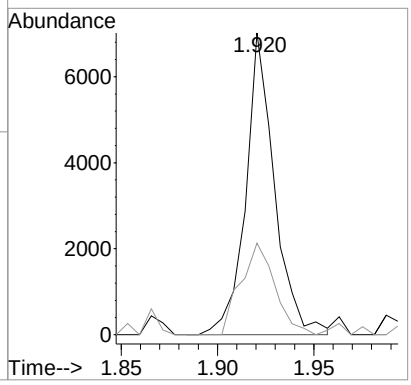


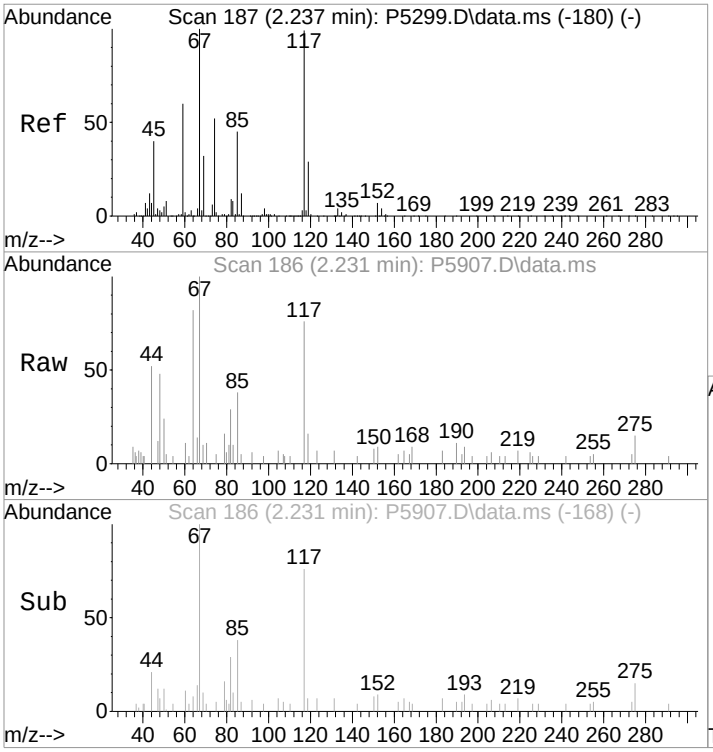


#7
Freon 21
Concen: 0.87 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 67 Resp: 7295

Ion	Ratio	Lower	Upper
67	100		
69	30.3	14.4	54.4

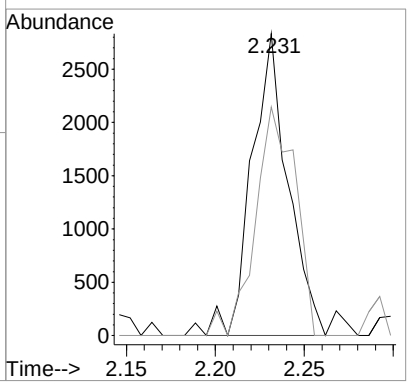


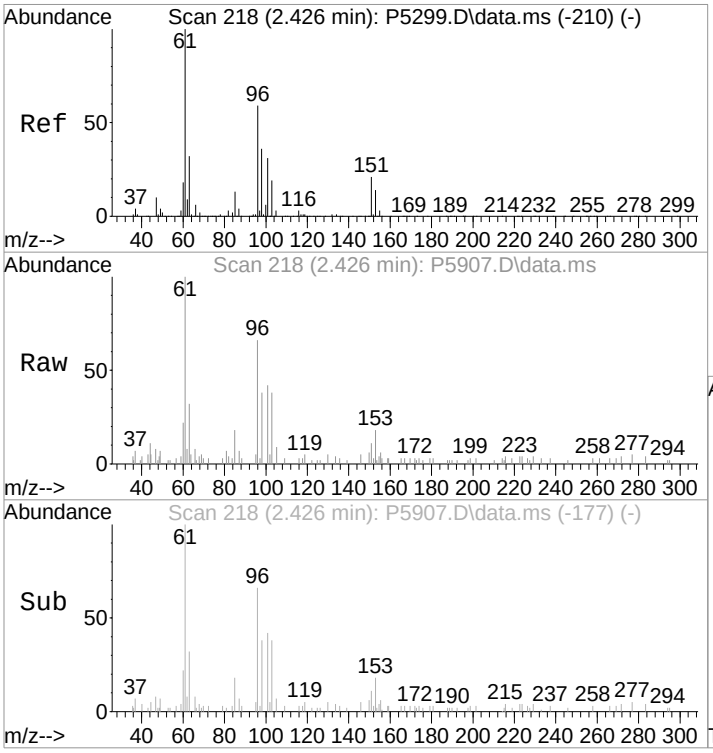


#10
Freon 123a
Concen: 0.80 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 67 Resp: 4041

Ion	Ratio	Lower	Upper
67	100		
117	75.7	78.8	118.8#

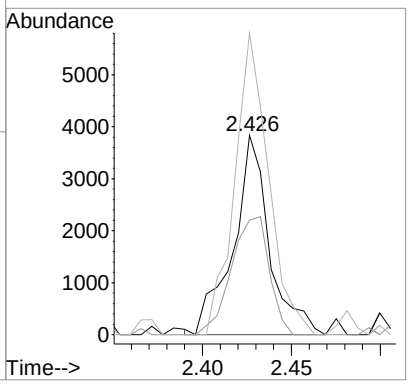


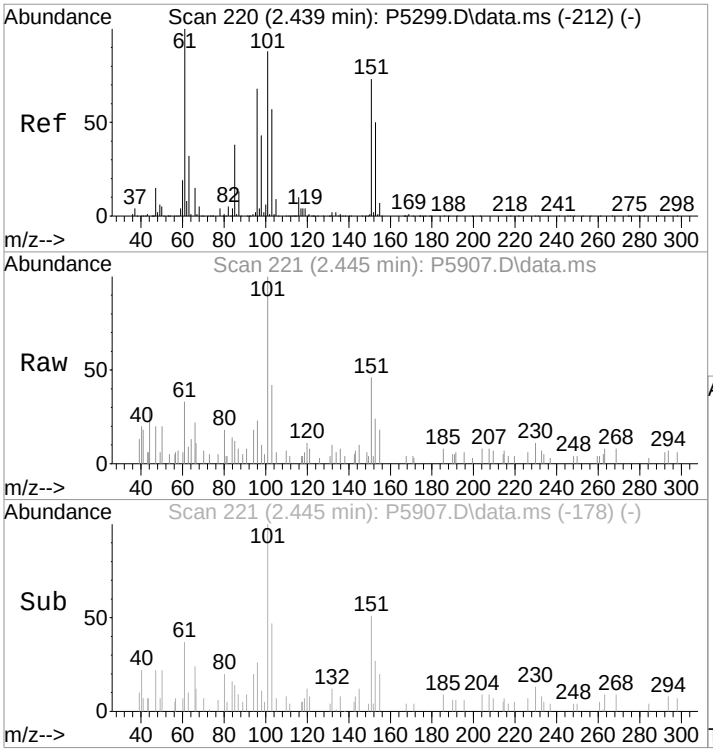


#13
1,1-Diclethene
Concen: 0.98 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 96 Resp: 5445

Ion	Ratio	Lower	Upper
96	100		
98	57.4	41.8	81.8
61	151.4	150.1	190.1

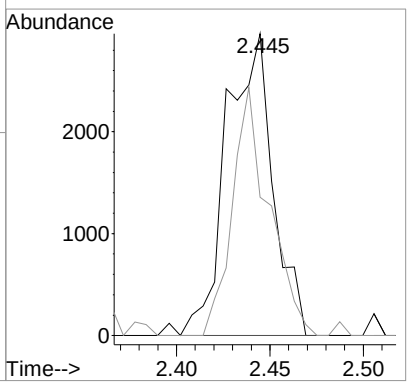


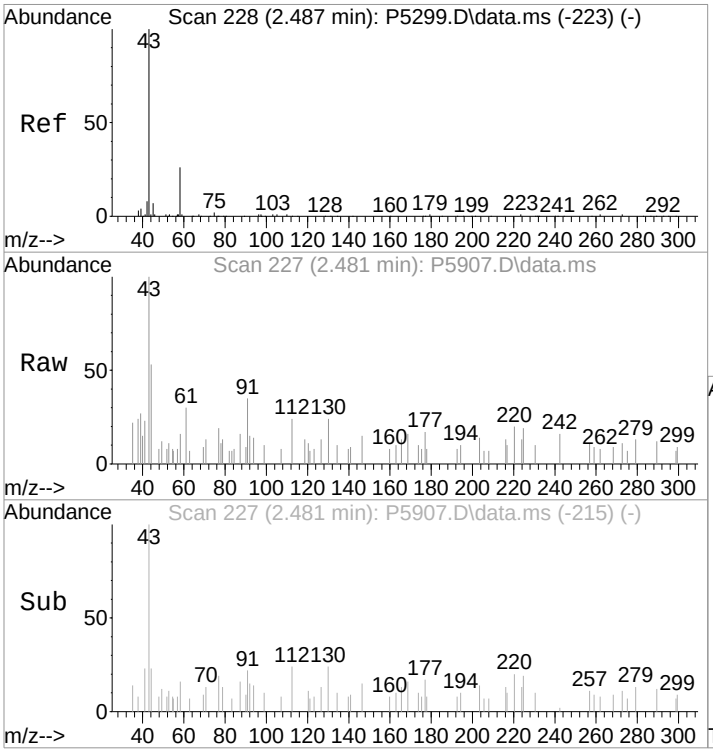


#14
Freon 113
Concen: 0.87 ppb m
RT: 2.445 min Scan# 221
Delta R.T. 0.006 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion:101 Resp: 5131

Ion	Ratio	Lower	Upper
101	100		
151	45.9	62.6	102.6#

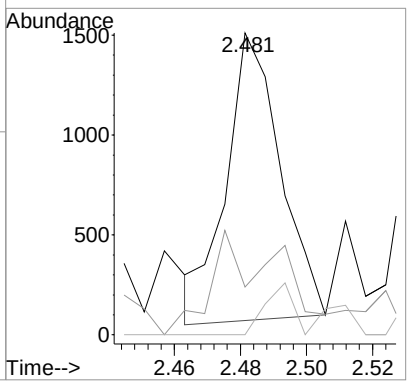


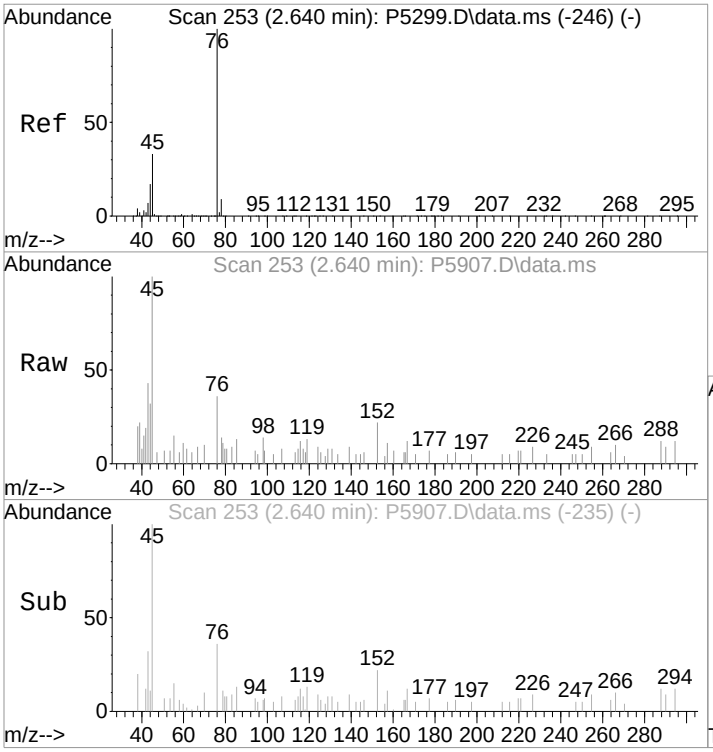


#15
Acetone
Concen: 1.27 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 43 Resp: 1643

Ion	Ratio	Lower	Upper
43	100		
58	15.8	5.3	45.3
42	0.0	0.0	28.7

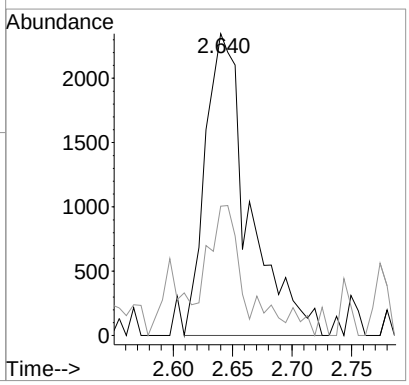


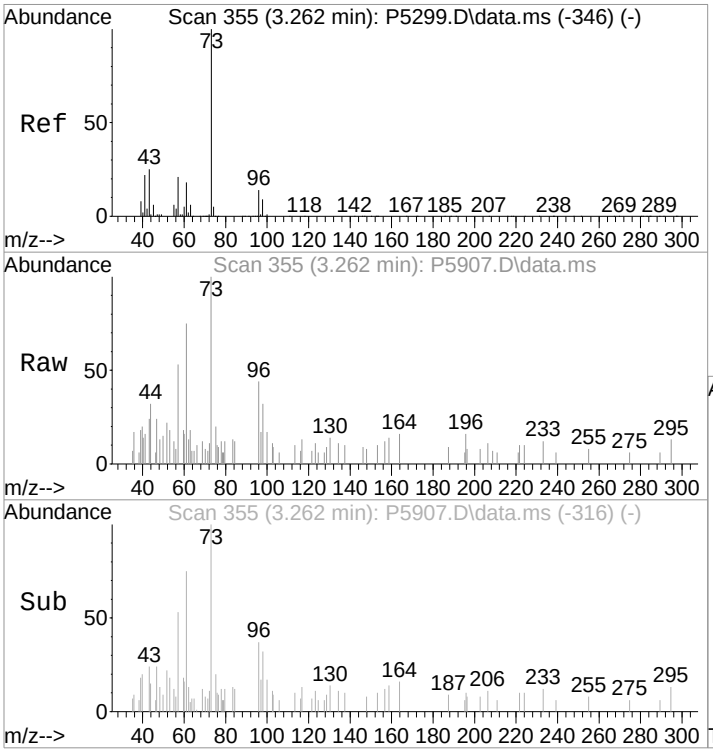


#16
2-Propanol
Concen: 21.70 ppb m
RT: 2.640 min Scan# 253
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 45 Resp: 6009

Ion	Ratio	Lower	Upper
45	100		
43	42.8	1.6	41.6#

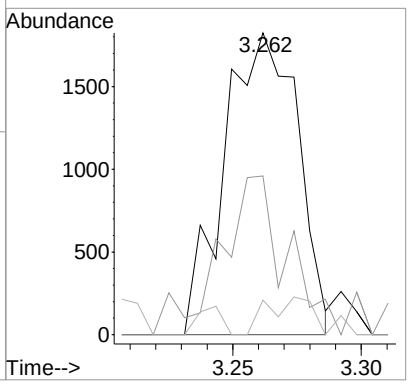


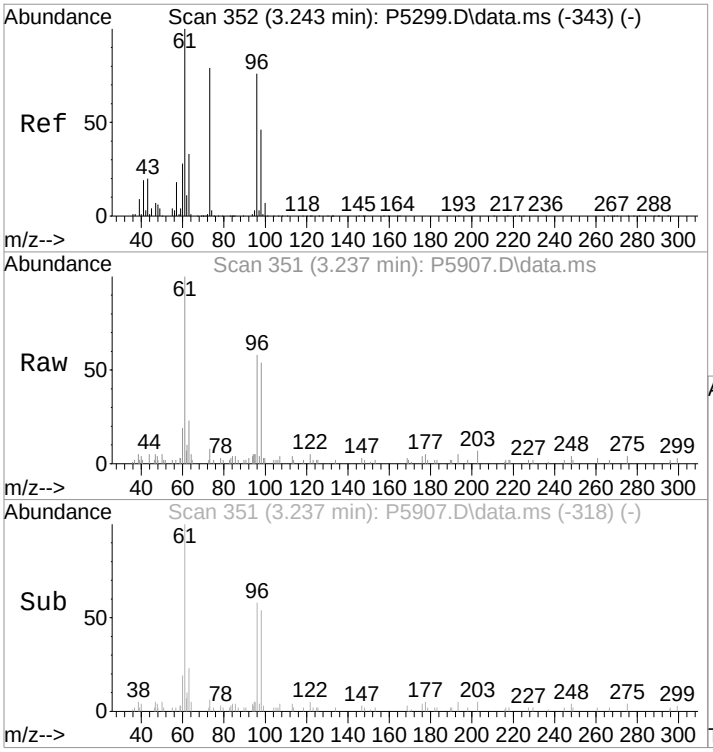


#25
Methyl-t-Butyl Ether
Concen: 0.23 ppb
RT: 3.262 min Scan# 355
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 73 Resp: 3639

Ion	Ratio	Lower	Upper
73	100		
57	52.5	1.5	41.5#
55	11.5	0.0	25.8

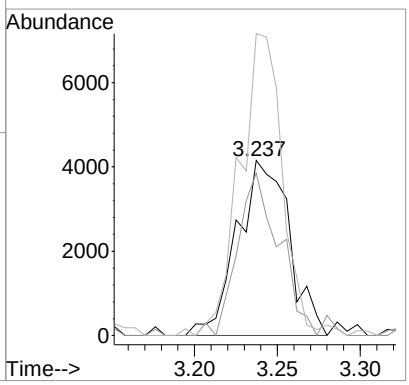


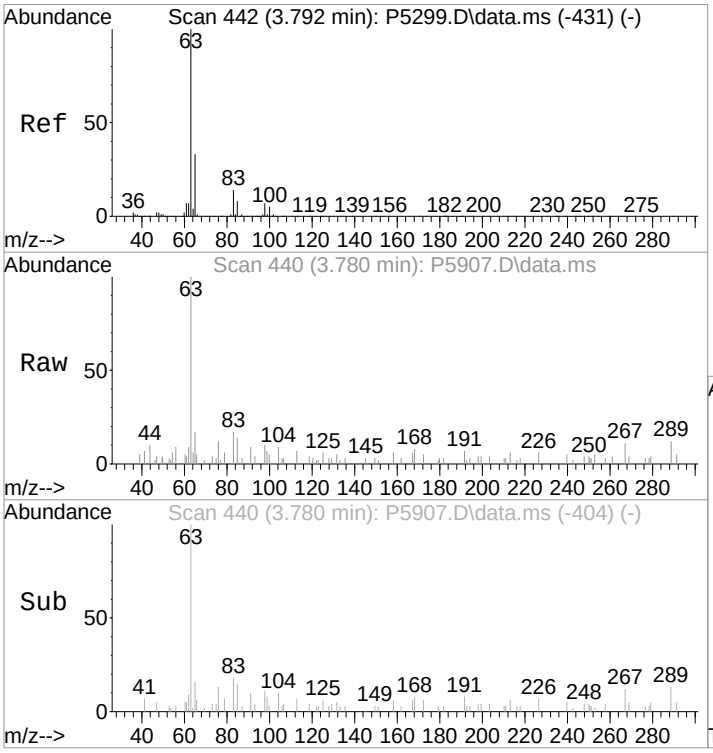


#26
trans-1,2-Dichloroethene
Concen: 1.46 ppb m
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 96 Resp: 9067

Ion	Ratio	Lower	Upper
96	100		
98	92.8	41.0	81.0#
61	172.5	112.4	152.4#

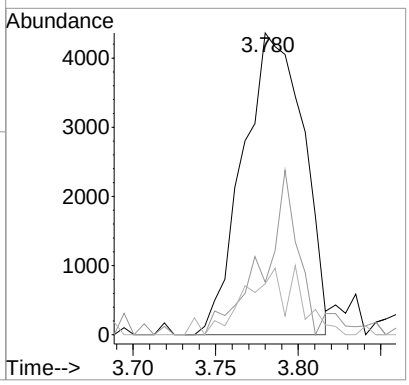


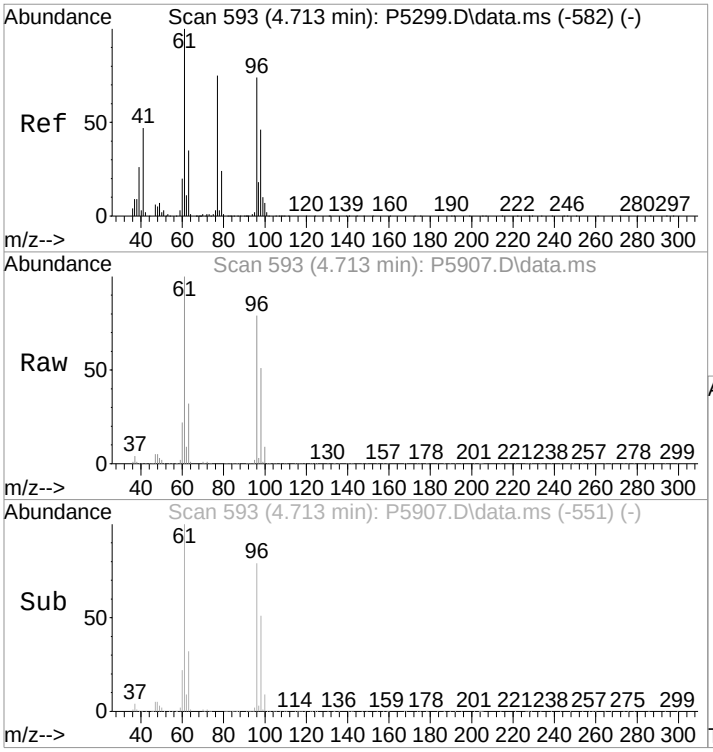


#28
1,1-Diclethane
Concen: 1.08 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 63 Resp: 11126

Ion	Ratio	Lower	Upper
63	100		
65	17.4	12.9	52.9
83	16.9	0.0	33.5

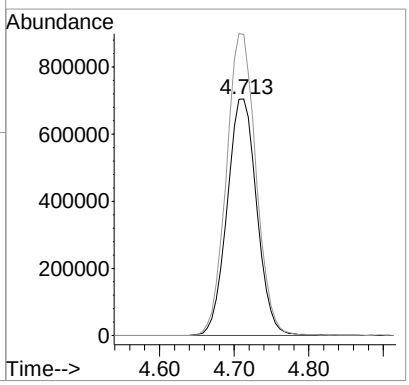


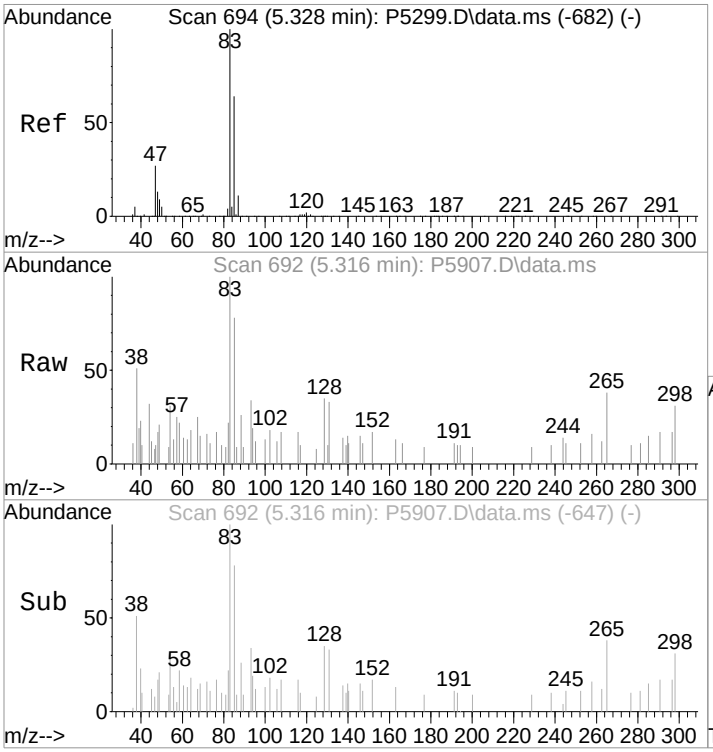


#34
cis-1,2-Dichloroethene
Concen: 306.30 ppb
RT: 4.713 min Scan# 593
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 96 Resp: 1946032

Ion	Ratio	Lower	Upper
96	100		
61	127.4	114.6	154.6

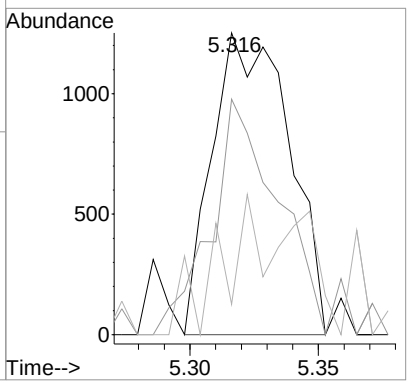


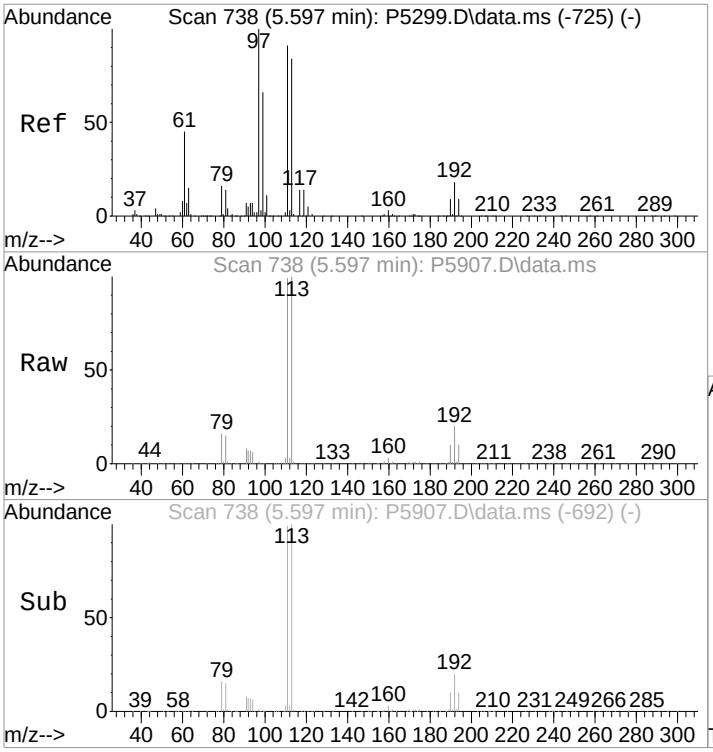


#40
Chloroform
Concen: 0.26 ppb
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 83 Resp: 2619

Ion	Ratio	Lower	Upper
83	100		
85	78.1	44.1	84.1
47	10.1	7.4	47.4

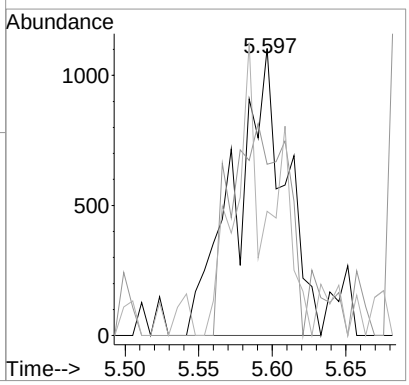


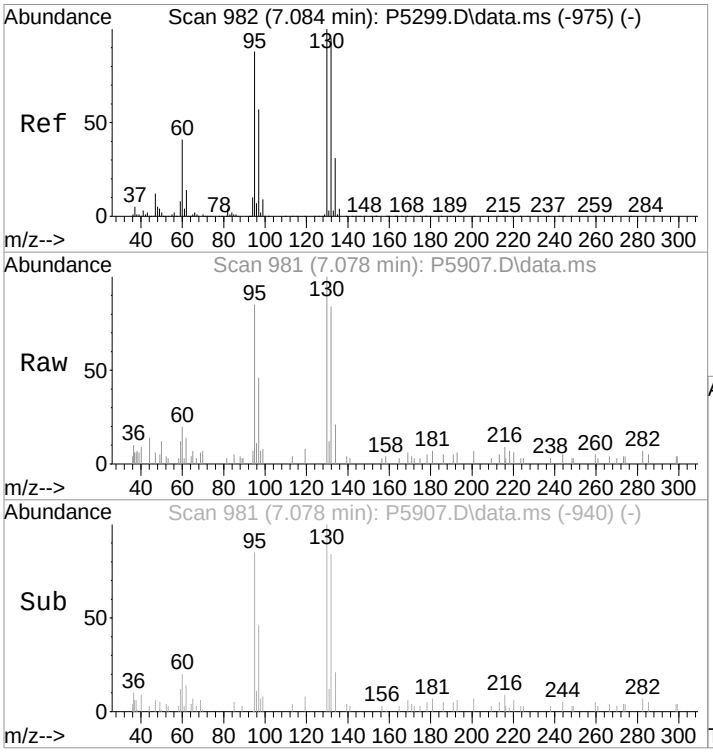


#41
1,1,1-Trichloroethane
Concen: 0.28 ppb m
RT: 5.597 min Scan# 738
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion: 97 Resp: 2642

Ion	Ratio	Lower	Upper
97	100		
99	59.7	46.2	86.2
61	43.2	25.3	65.3

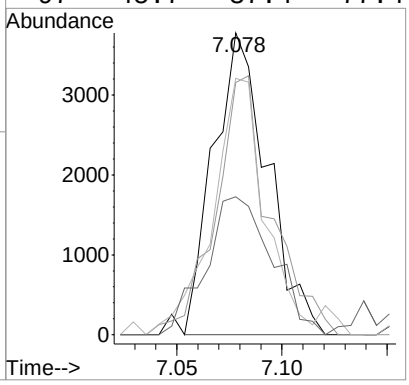




#54
Trichloroethene
Concen: 0.99 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5907.D
Acq: 24 Oct 2016 6:53 pm

Tgt Ion:130 Resp: 6796

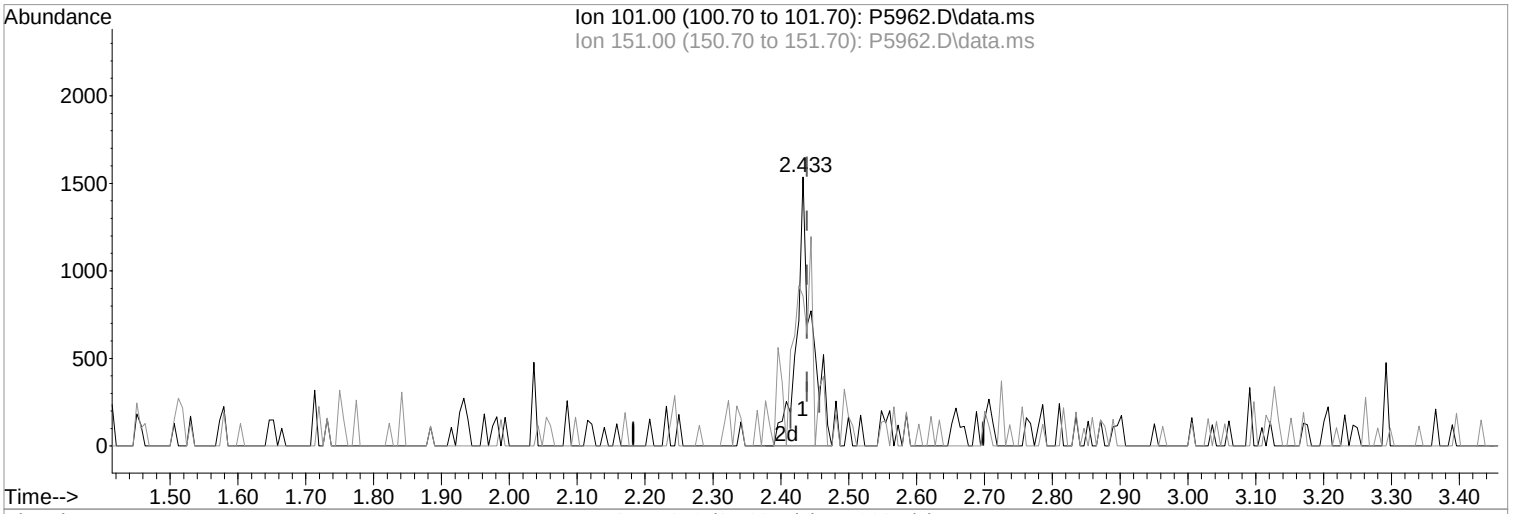
Ion	Ratio	Lower	Upper
130	100		
132	83.6	75.2	115.2
95	84.9	68.1	108.1
97	45.7	37.4	77.4

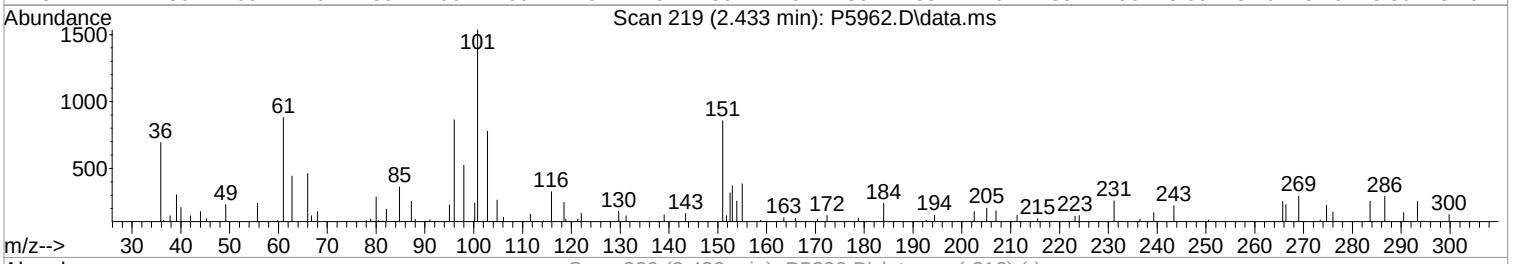


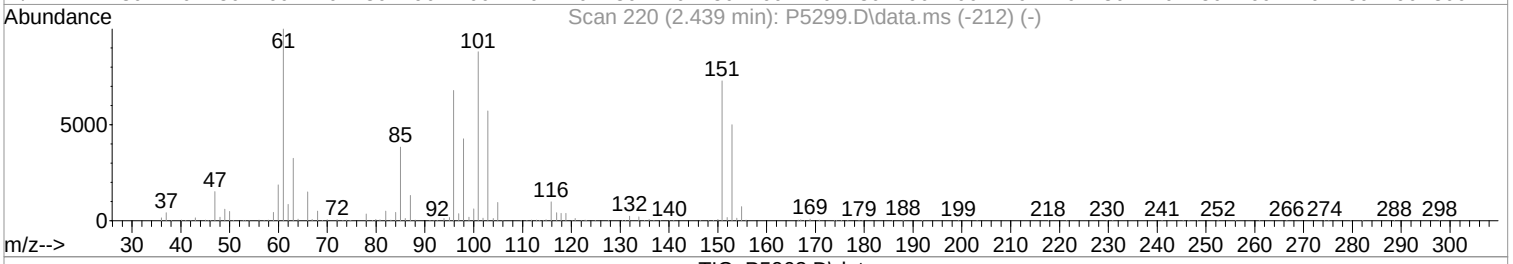
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(14) Freon 113 (P)

2.433min (-0.006) 0.39 ppb m

response 2339

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	55.66#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

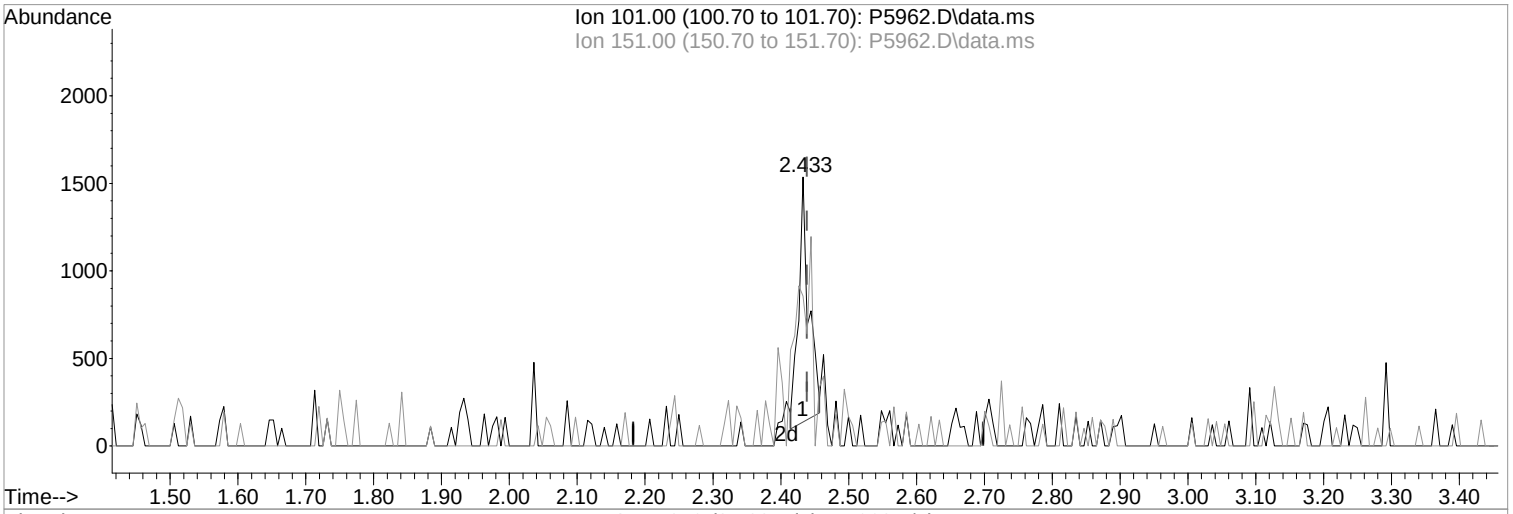
Split Peak

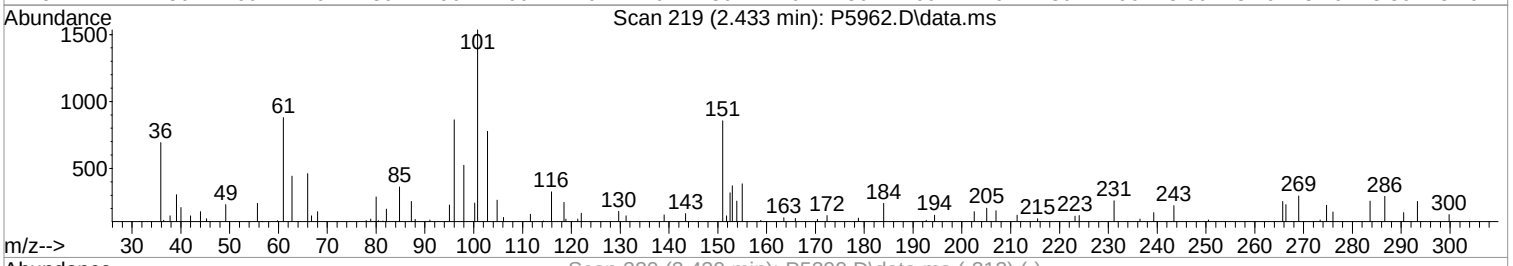
10/26/16

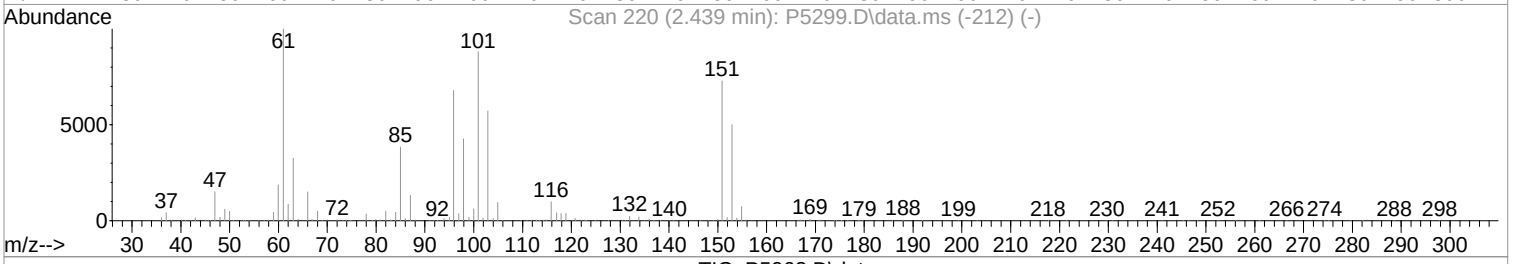
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(14) Freon 113 (P)

2.433min (-0.006) 0.25 ppb

response 1476

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	55.66#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

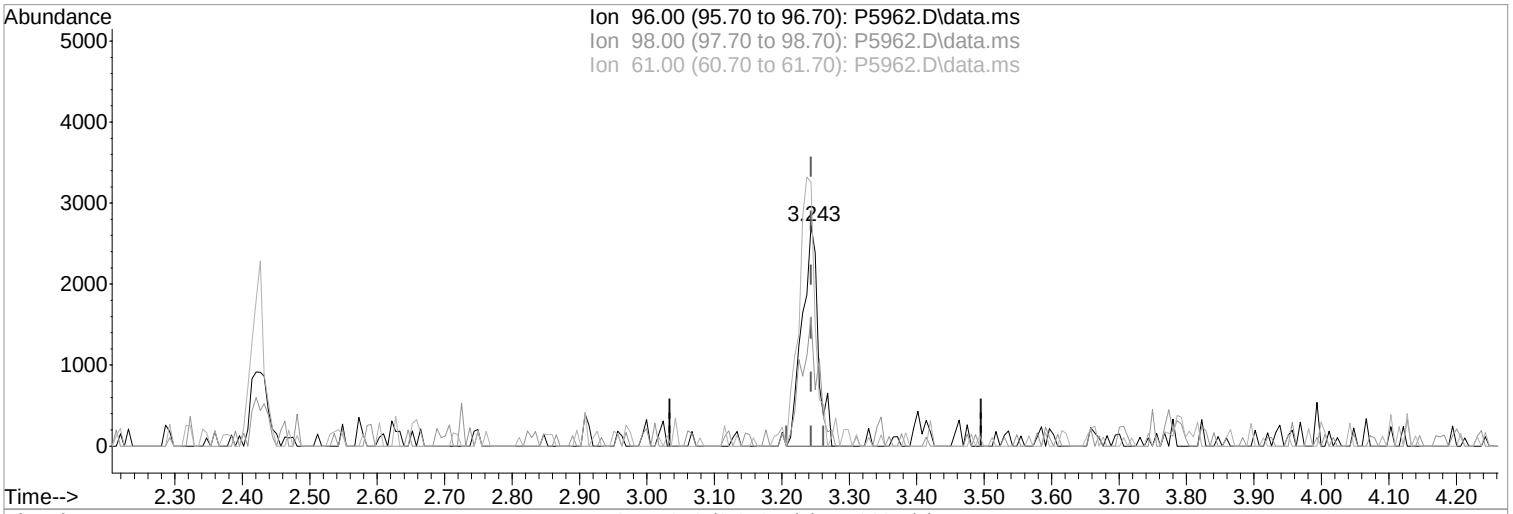
Before

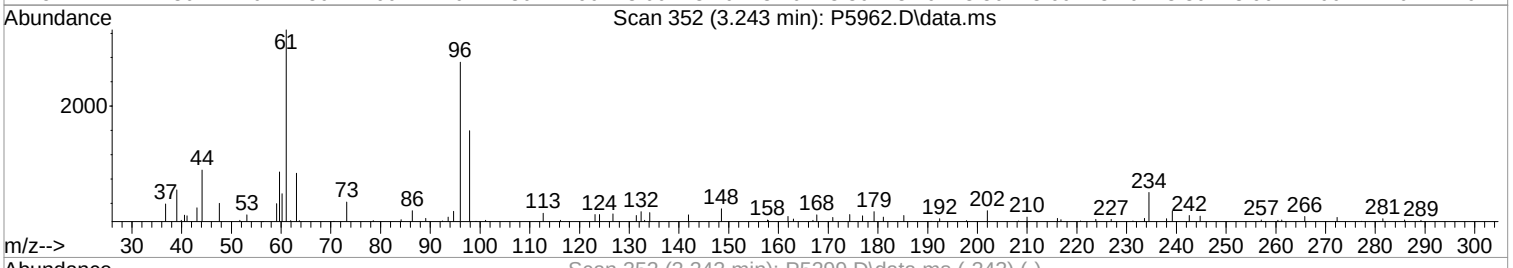
10/26/16

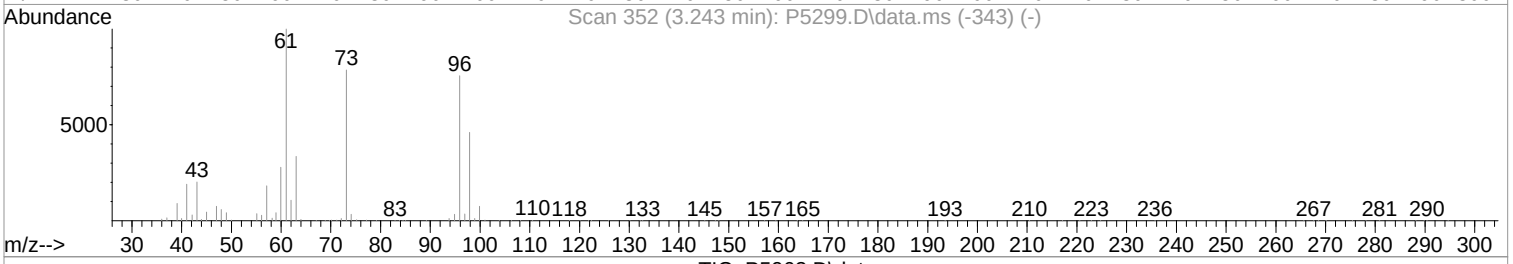
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.71 ppb m

response 4520

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	58.63
61.00	132.40	119.69
0.00	0.00	0.00

Manual Integration:

After

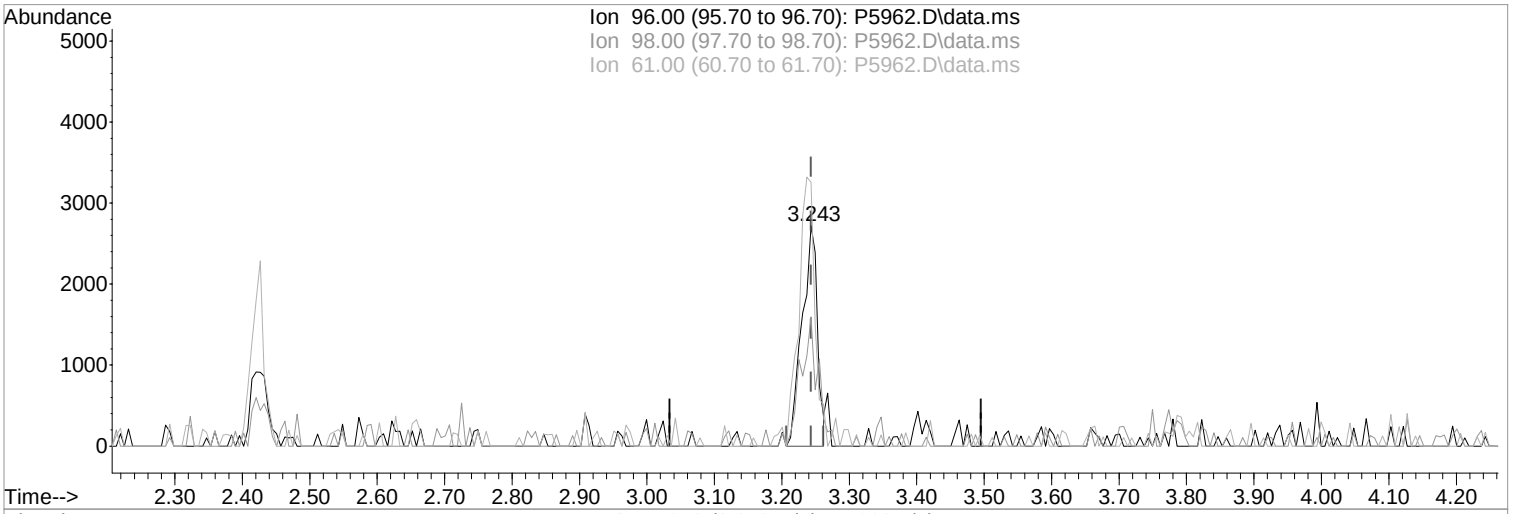
Split Peak

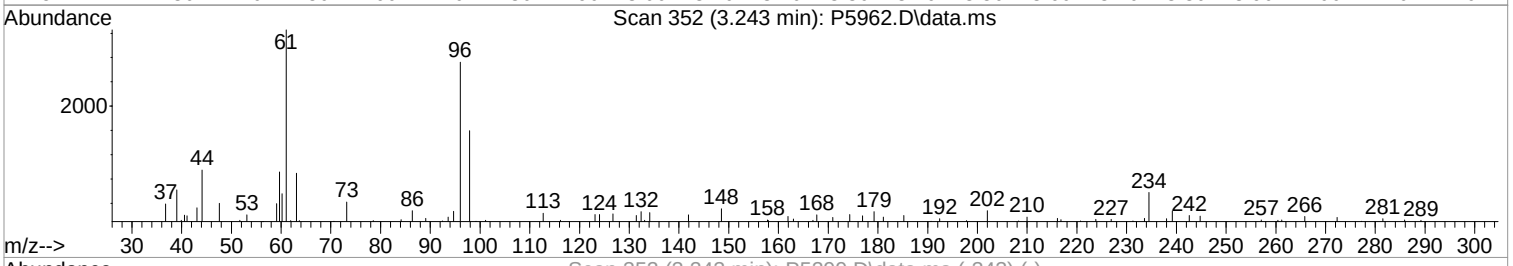
10/26/16

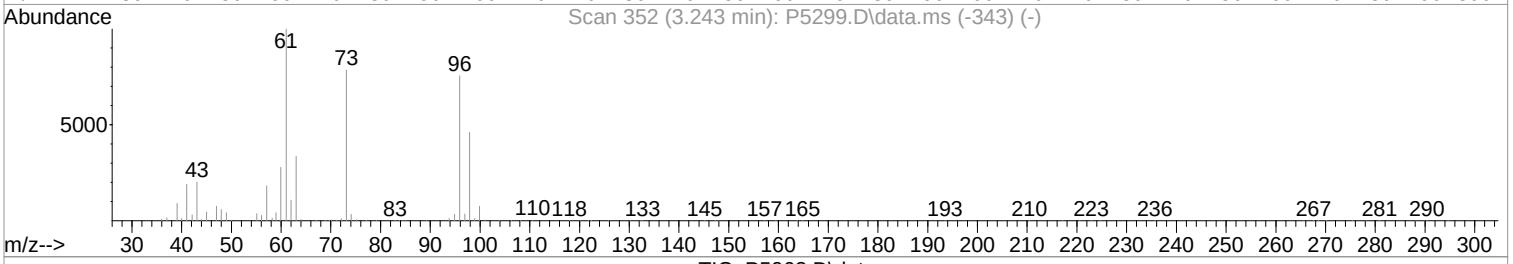
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.67 ppb

response 4282

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	58.63
61.00	132.40	119.69
0.00	0.00	0.00

Manual Integration:

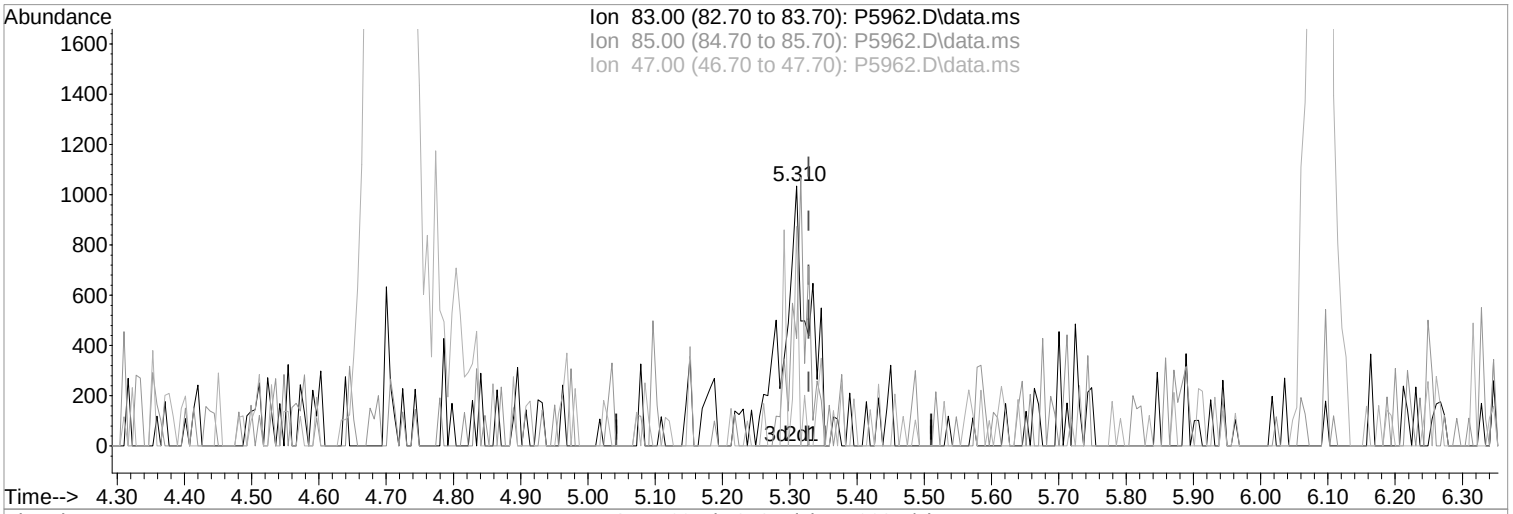
Before

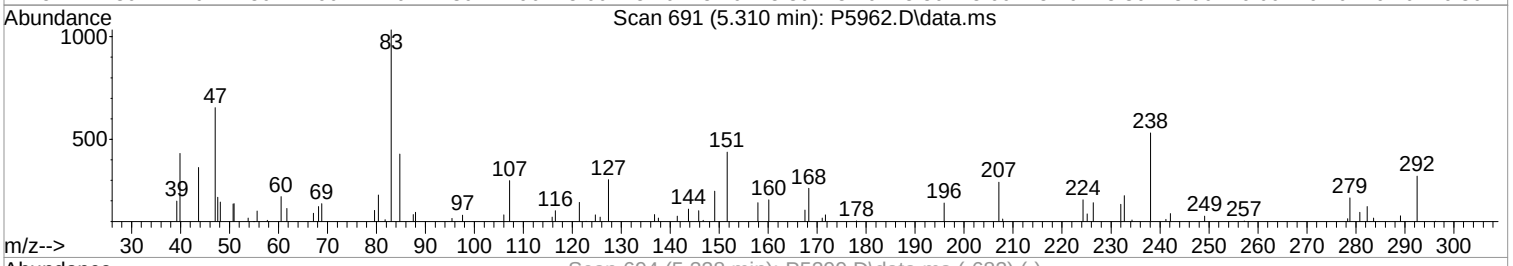
10/26/16

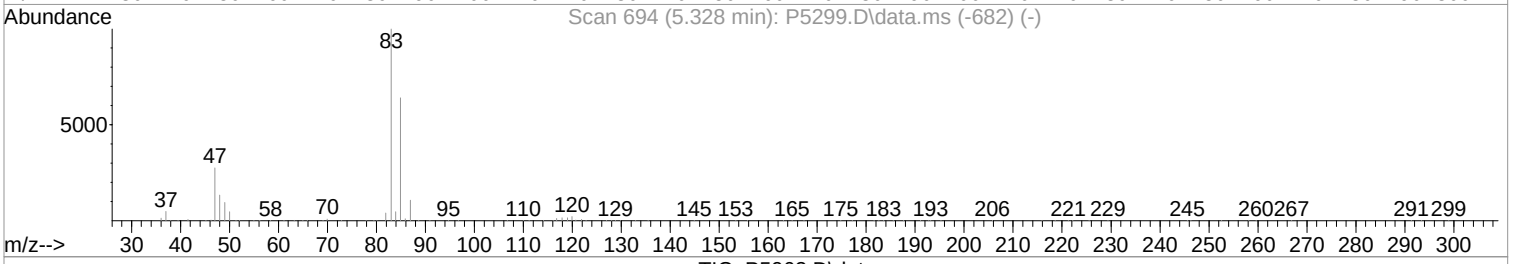
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(40) Chloroform (P)

5.310min (-0.018) 0.25 ppb m

response 2606

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	41.39#
47.00	27.40	63.35#
0.00	0.00	0.00

Manual Integration:

After

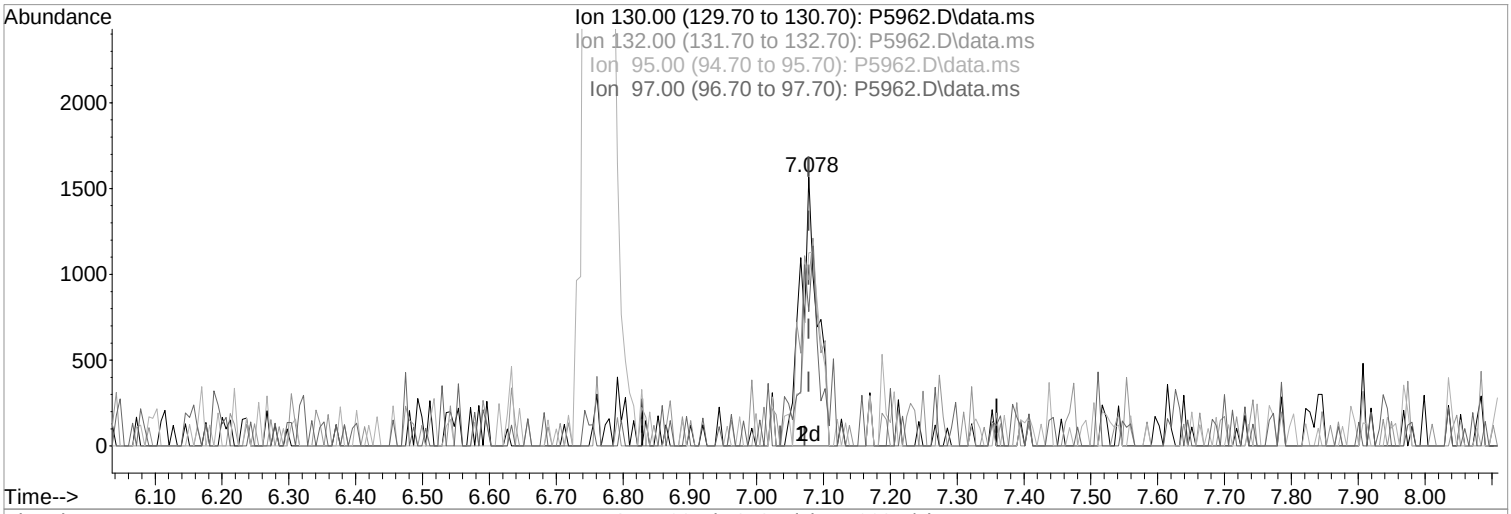
Split Peak

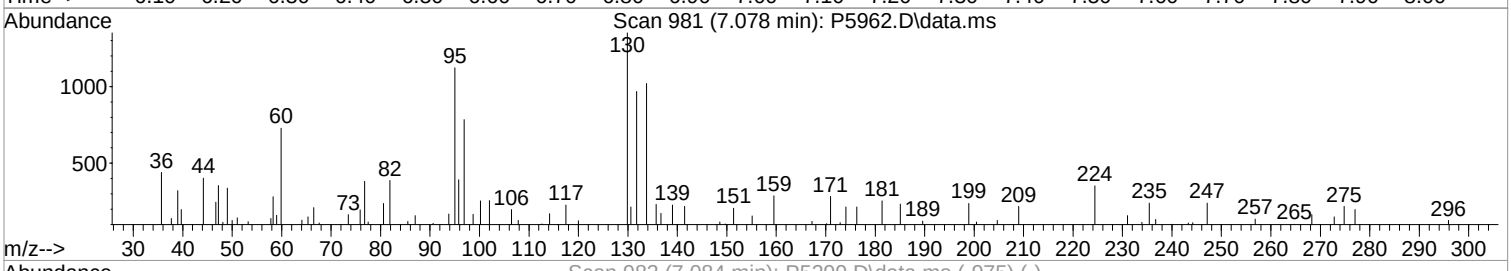
10/26/16

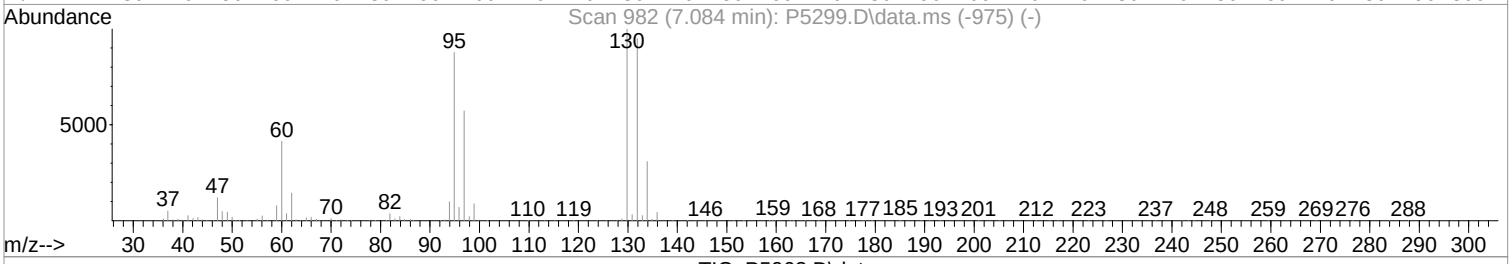
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(54) Trichloroethene (P)

7.078min (-0.000) 0.39 ppb m

response 2724

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	71.60#
95.00	88.10	83.14
97.00	57.40	57.99

Manual Integration:

After

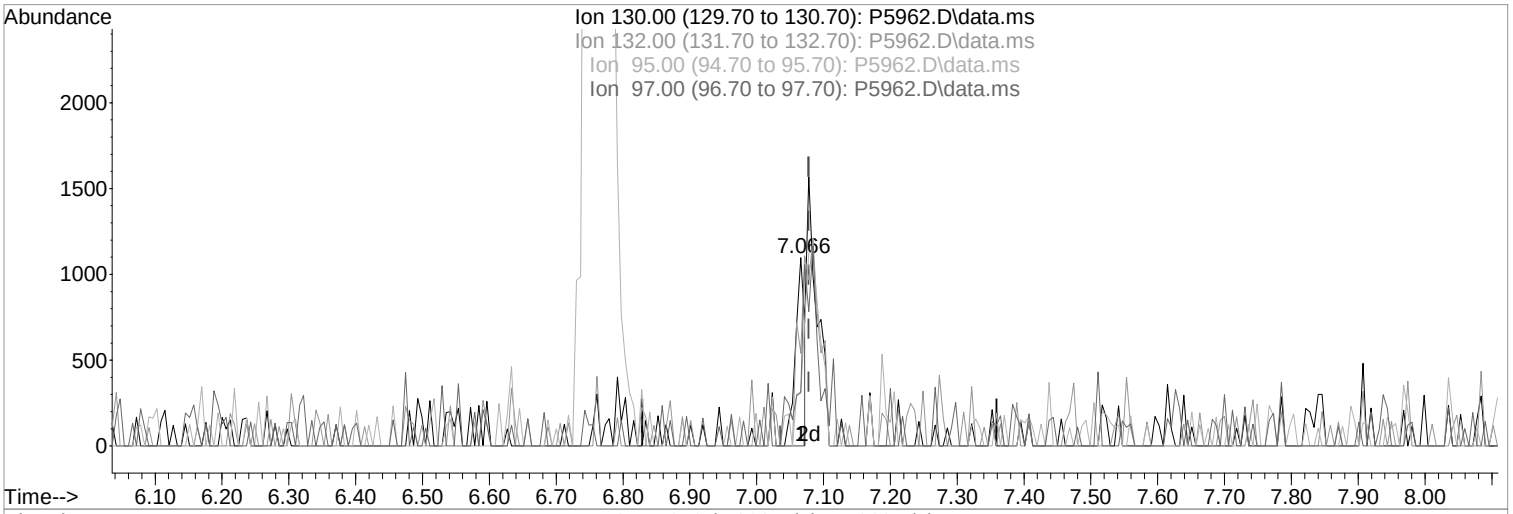
Split Peak

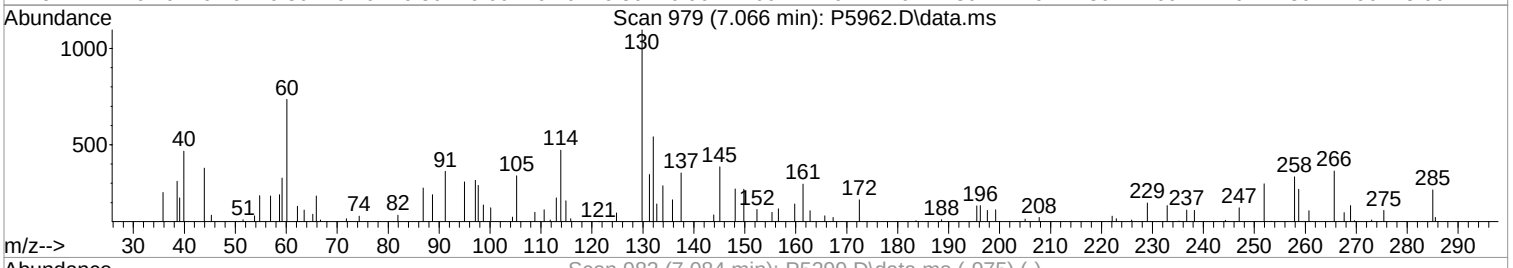
10/26/16

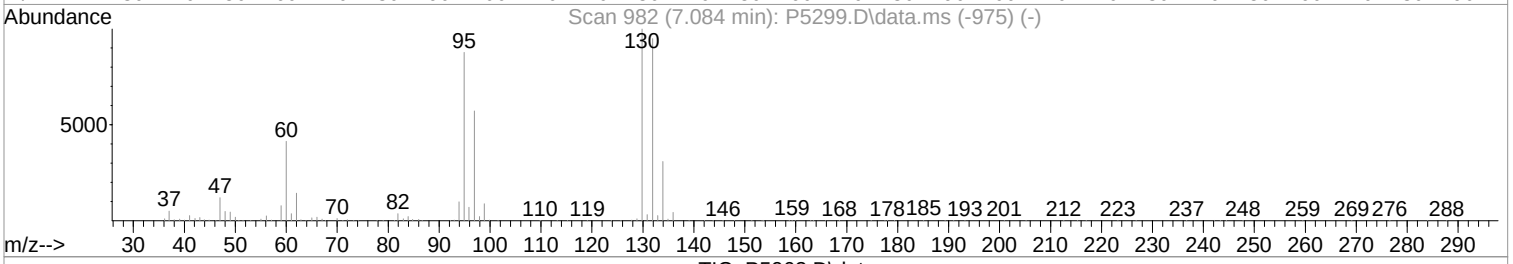
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:11:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5962.D\data.ms

(54) Trichloroethene (P)

7.066min (-0.012) 0.15 ppb

response 1068

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	67.00#
95.00	88.10	27.99#
97.00	57.40	55.15

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:15:44 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

dil

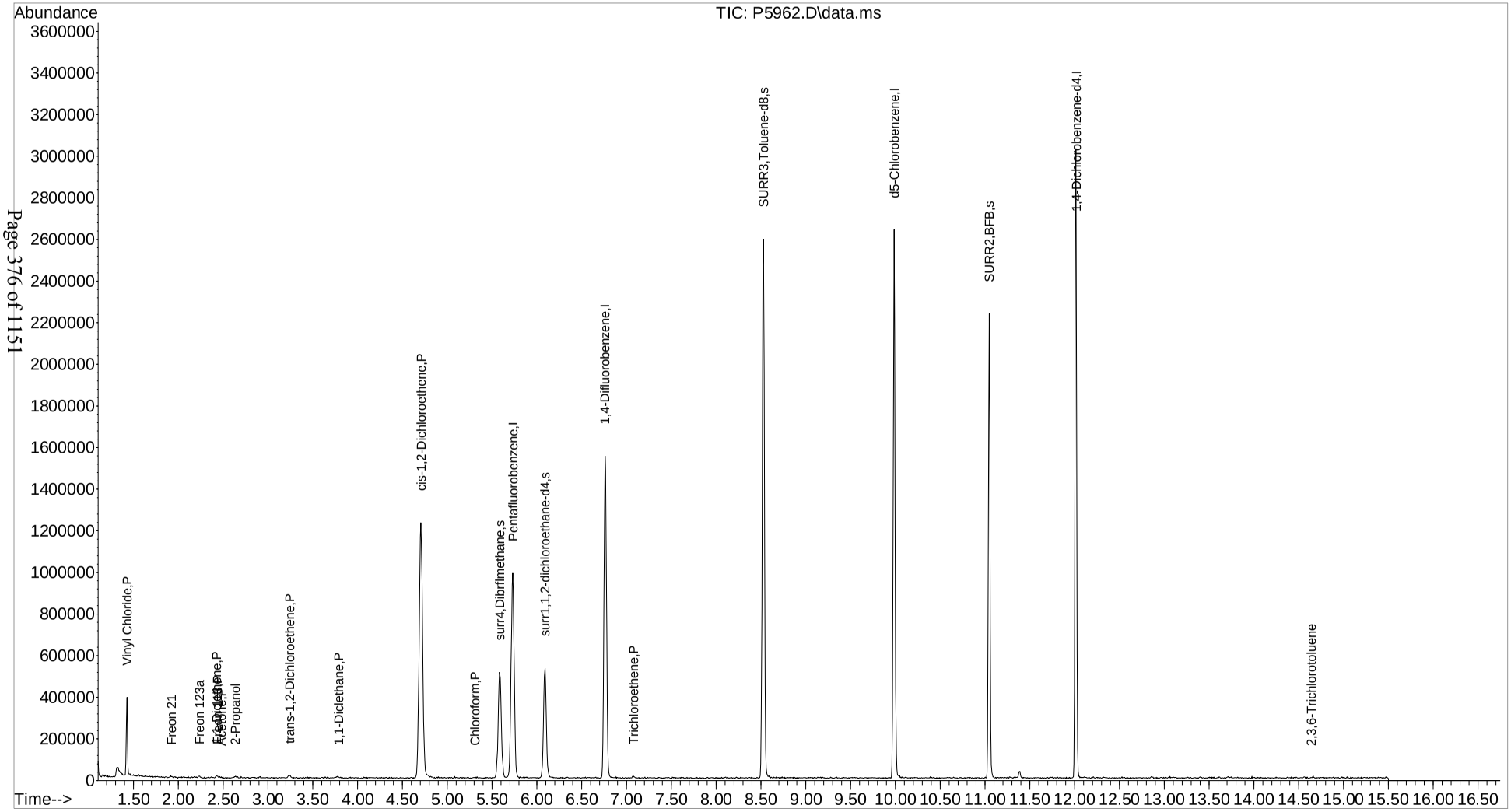
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	815065	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1306679	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1185277	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	604094	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	385861	55.33	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.66%				
48) surr1,1,2-dichloroetha...	6.090	65	402640	50.83	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.66%				
65) SURR3,Toluene-d8	8.529	98	1627514	56.95	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.90%				
70) SURR2,BFB	11.047	95	583640	52.35	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.70%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	206599	32.04	ppb		96
7) Freon 21	1.920	67	2795	0.33	ppb		78
10) Freon 123a	2.231	67	1666	0.32	ppb	#	51
13) 1,1-Diclethene	2.420	96	1704	0.30	ppb	#	84
14) Freon 113	2.433	101	2339m	0.39	ppb		
15) Acetone	2.475	43	1616	1.22	ppb	#	56
16) 2-Propanol	2.634	45	5330	18.80	ppb		99
26) trans-1,2-Dichloroethene	3.243	96	4520m	0.71	ppb		
28) 1,1-Diclethane	3.786	63	5552	0.52	ppb		83
34) cis-1,2-Dichloroethene	4.706	96	765172	117.64	ppb		96
40) Chloroform	5.310	83	2606m	0.25	ppb		
54) Trichloroethene	7.078	130	2724m	0.39	ppb		
120) 2,3,6-Trichlorotoluene	14.644	159	1458	0.28	ppb	#	56

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

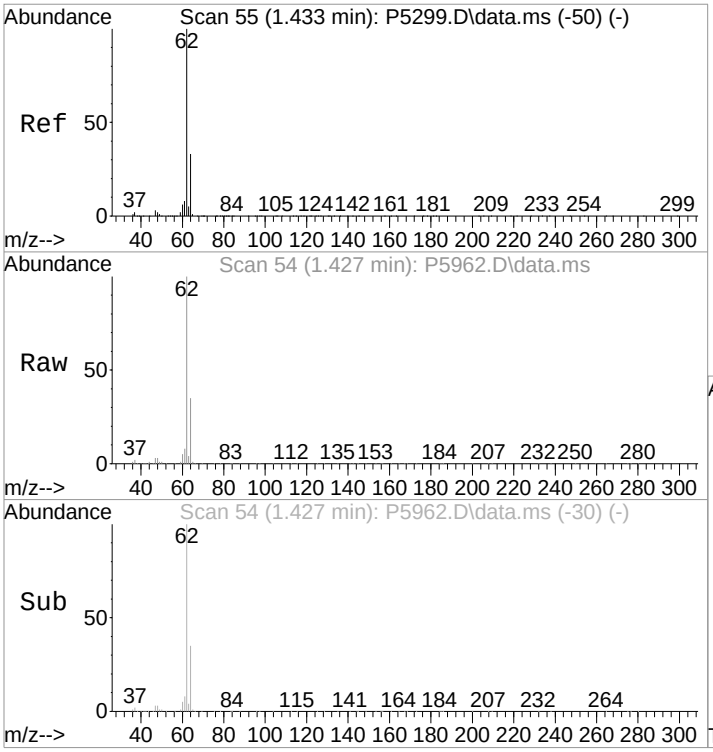
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5962.D
Acq On : 26 Oct 2016 2:54 pm
Operator : K.Ruest
Sample : R1611185-008|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:15:44 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



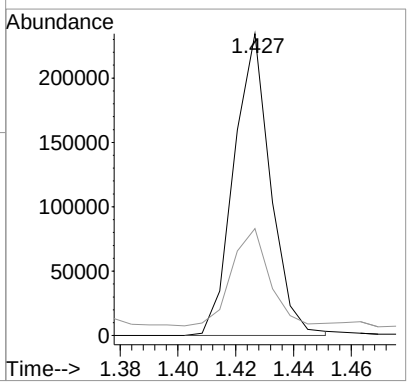
1st 10/27/16
2nd 10/27/16

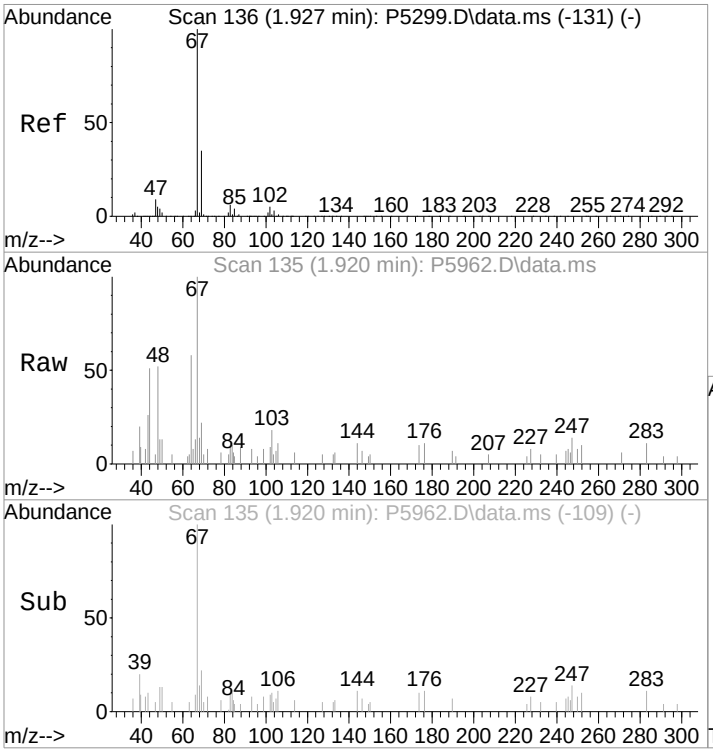


#4
Vinyl Chloride
Concen: 32.04 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 62 Resp: 206599

Ion	Ratio	Lower	Upper
62	100		
64	35.4	13.1	53.1

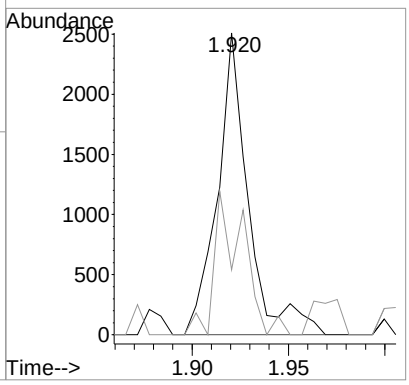


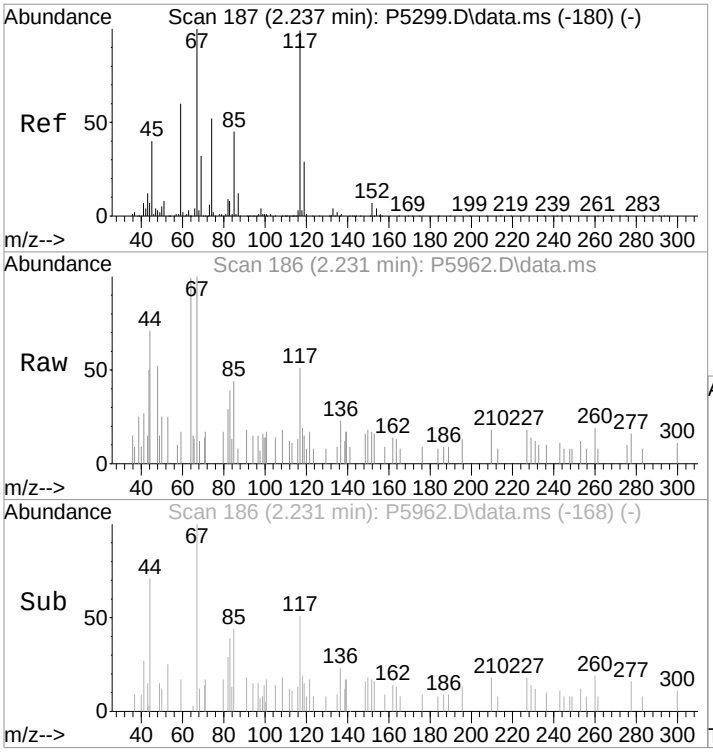


#7
Freon 21
Concen: 0.33 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 67 Resp: 2795

Ion	Ratio	Lower	Upper
67	100		
69	21.6	14.4	54.4

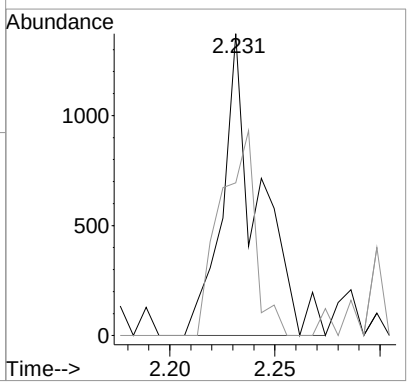


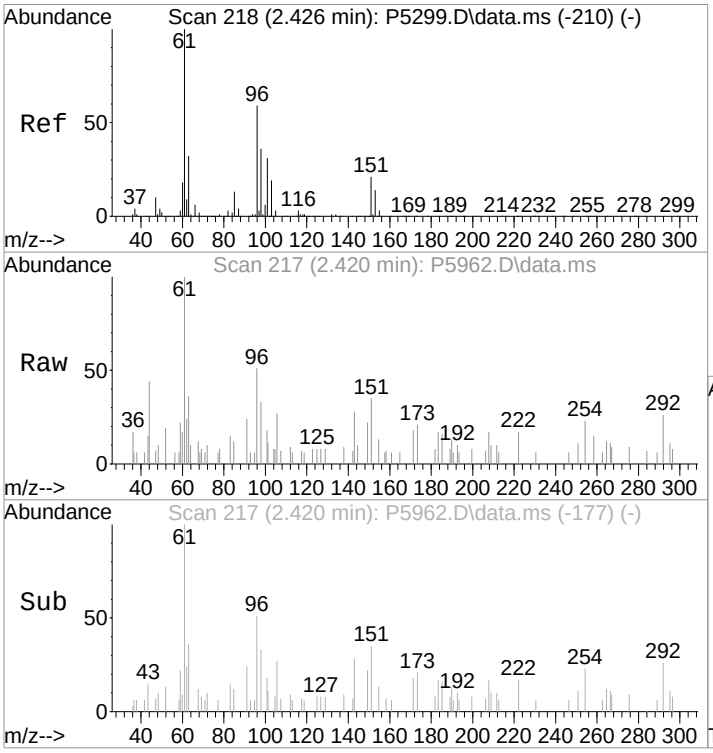


#10
Freon 123a
Concen: 0.32 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 67 Resp: 1666

Ion	Ratio	Lower	Upper
67	100		
117	50.6	78.8	118.8#

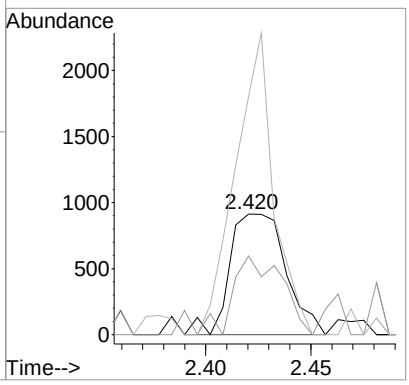


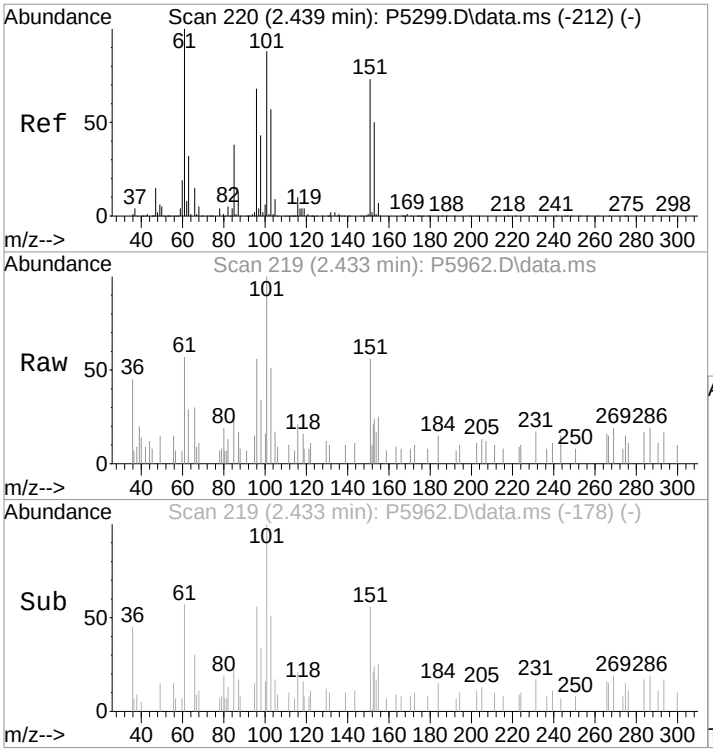


#13
1,1-Diclethene
Concen: 0.30 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 96 Resp: 1704

Ion	Ratio	Lower	Upper
96	100		
98	65.3	41.8	81.8
61	197.2	150.1	190.1#

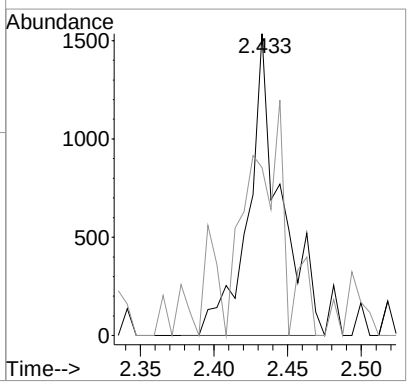


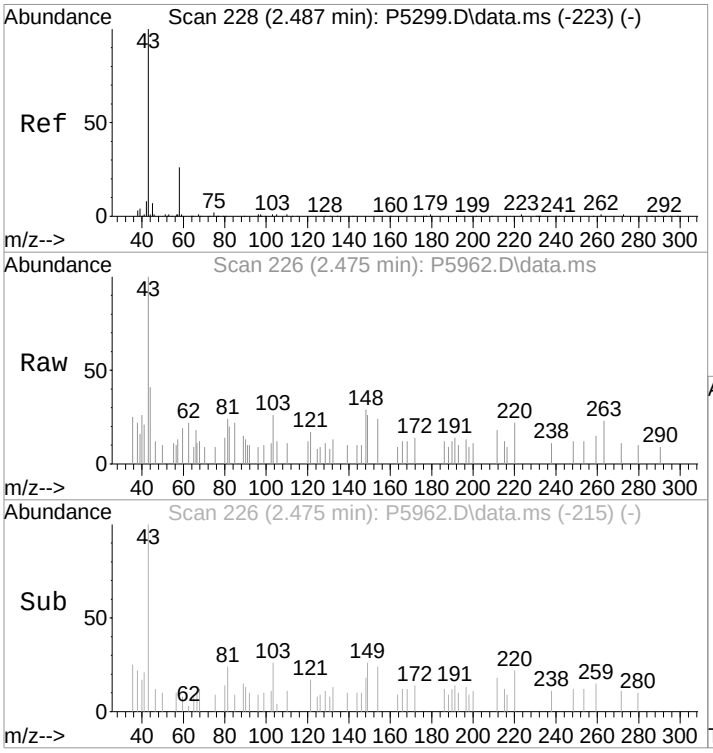


#14
Freon 113
Concen: 0.39 ppb m
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion:101 Resp: 2339

Ion	Ratio	Lower	Upper
101	100		
151	55.7	62.6	102.6#

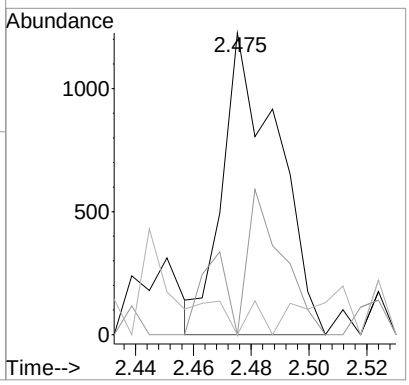


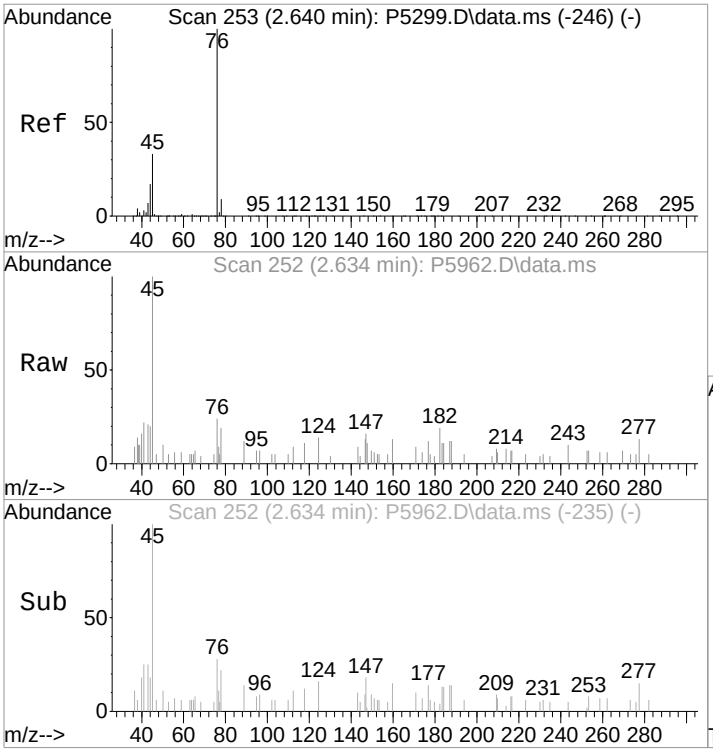


#15
Acetone
Concen: 1.22 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 43 Resp: 1616

Ion	Ratio	Lower	Upper
43	100		
58	0.0	5.3	45.3#
42	0.0	0.0	28.7

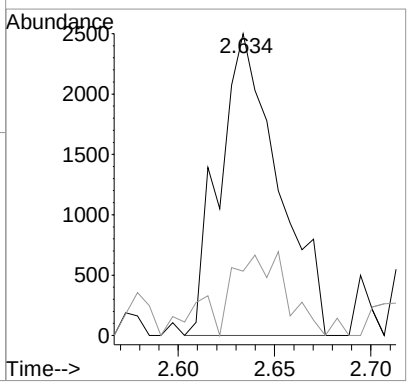


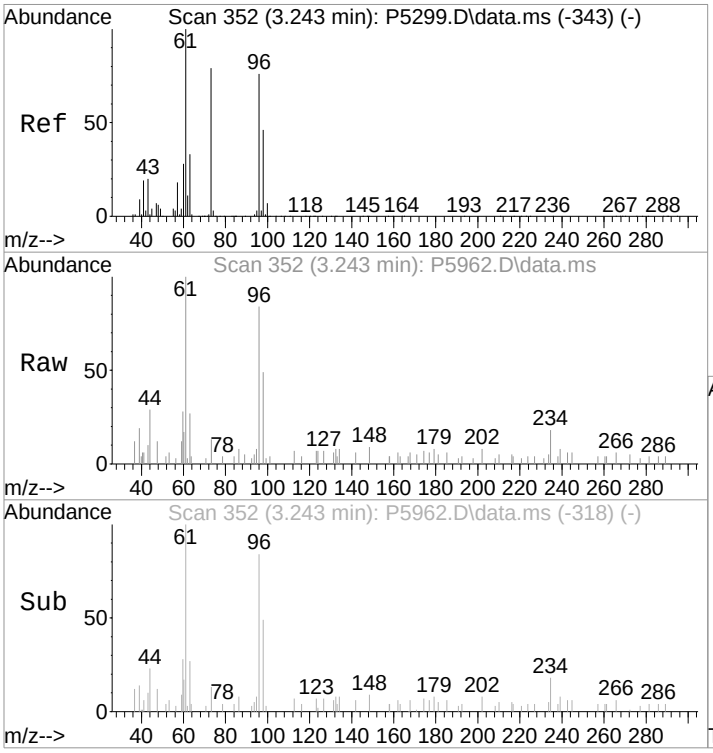


#16
2-Propanol
Concen: 18.80 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 45 Resp: 5330

Ion	Ratio	Lower	Upper
45	100		
43	21.3	1.6	41.6

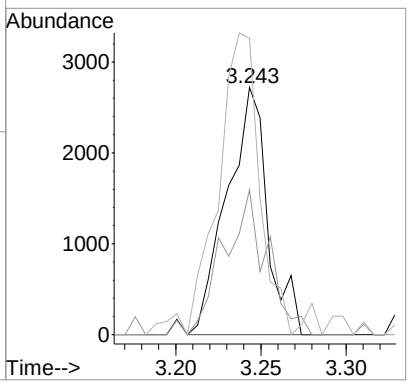


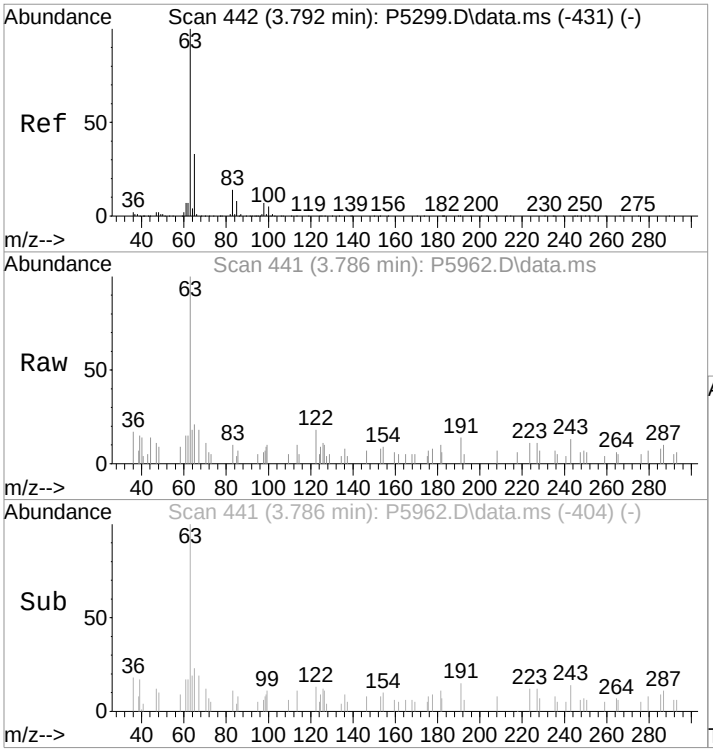


#26
trans-1,2-Dichloroethene
Concen: 0.71 ppb m
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 96 Resp: 4520

Ion	Ratio	Lower	Upper
96	100		
98	58.6	41.0	81.0
61	119.7	112.4	152.4

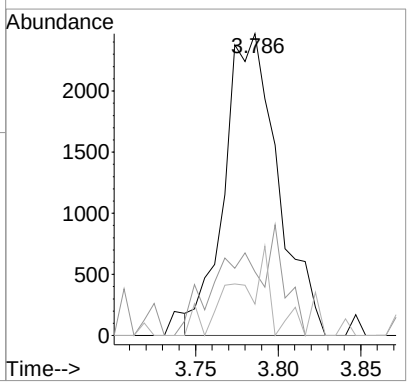


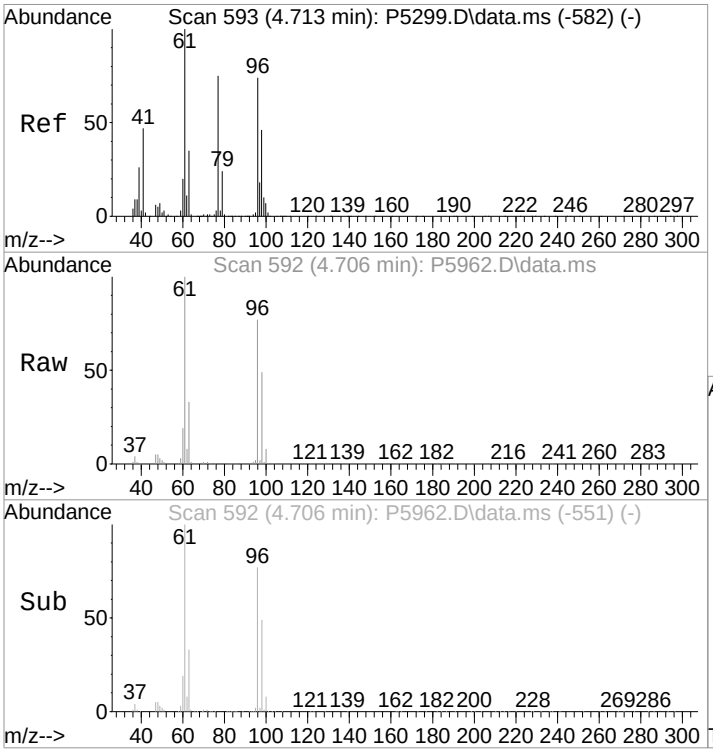


#28
1,1-Diclethane
Concen: 0.52 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 63 Resp: 5552

Ion	Ratio	Lower	Upper
63	100		
65	21.1	12.9	52.9
83	10.4	0.0	33.5

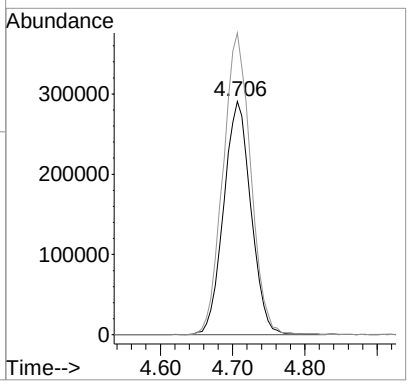


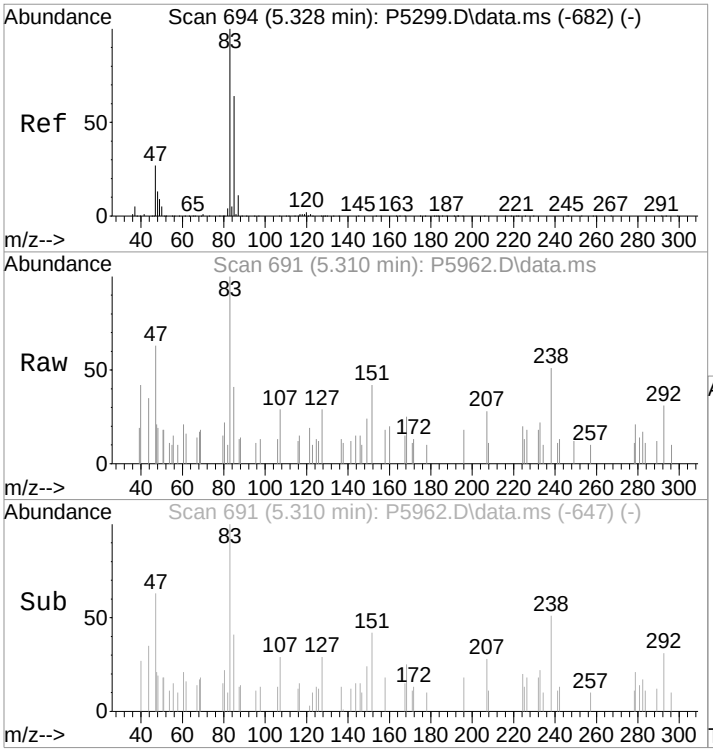


#34
cis-1,2-Dichloroethene
Concen: 117.64 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 96 Resp: 765172

Ion	Ratio	Lower	Upper
96	100		
61	129.3	114.6	154.6

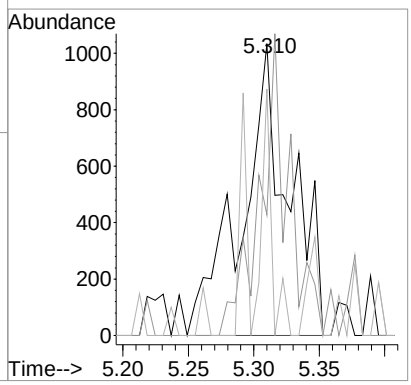


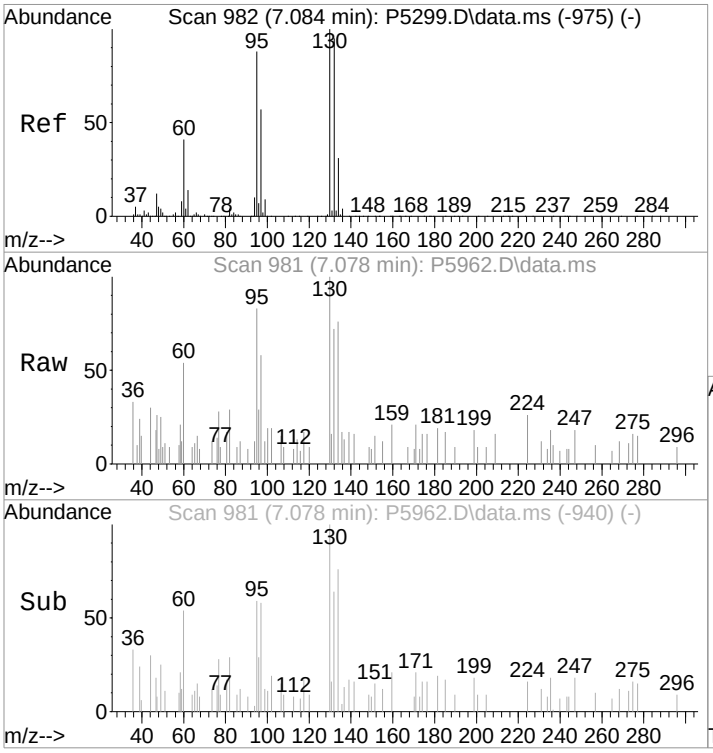


#40
Chloroform
Concen: 0.25 ppb m
RT: 5.310 min Scan# 691
Delta R.T. -0.018 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion: 83 Resp: 2606

Ion	Ratio	Lower	Upper
83	100		
85	41.4	44.1	84.1#
47	63.3	7.4	47.4#

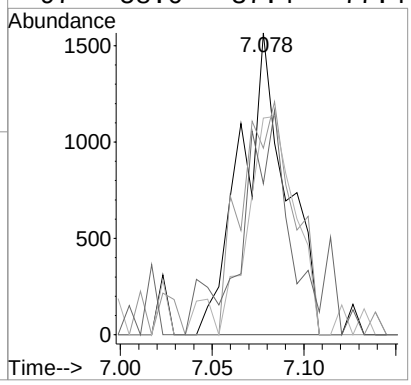


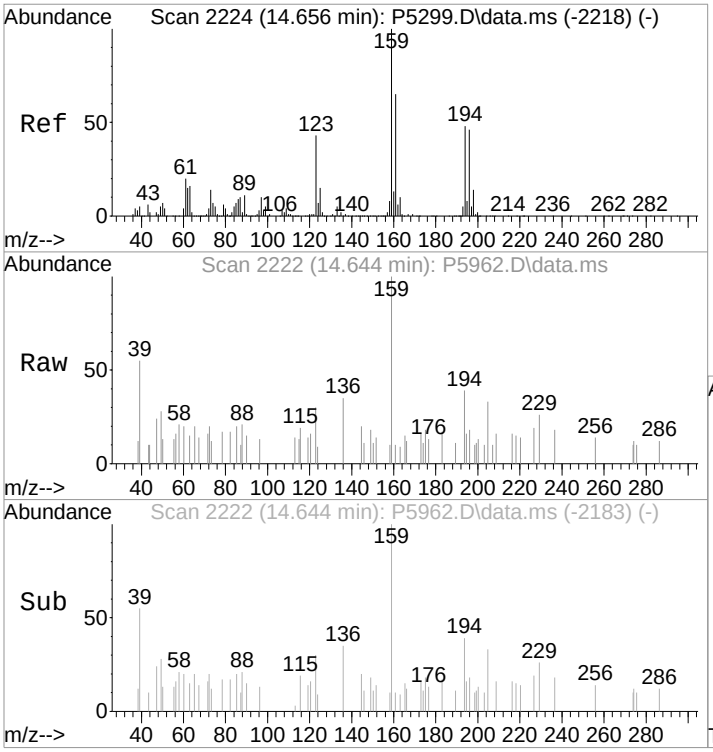


#54
Trichloroethene
Concen: 0.39 ppb m
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion:130 Resp: 2724

Ion	Ratio	Lower	Upper
130	100		
132	71.6	75.2	115.2#
95	83.1	68.1	108.1
97	58.0	37.4	77.4

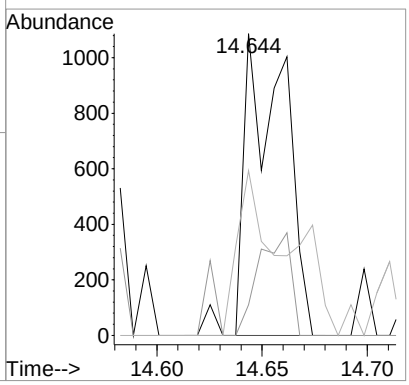




#120
2,3,6-Trichlorotoluene
Concen: 0.28 ppb
RT: 14.644 min Scan# 2222
Delta R.T. -0.012 min
Lab File: P5962.D
Acq: 26 Oct 2016 2:54 pm

Tgt Ion:159 Resp: 1458

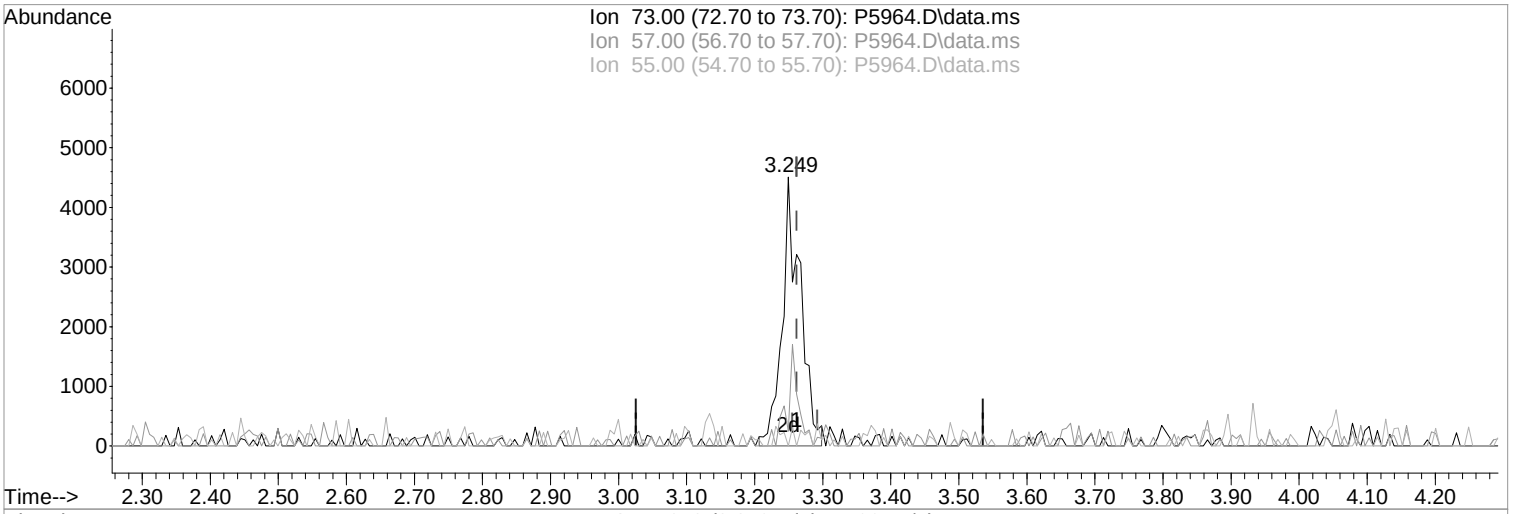
Ion	Ratio	Lower	Upper
159	100		
161	10.2	52.3	78.5#
194	54.6	38.6	57.8

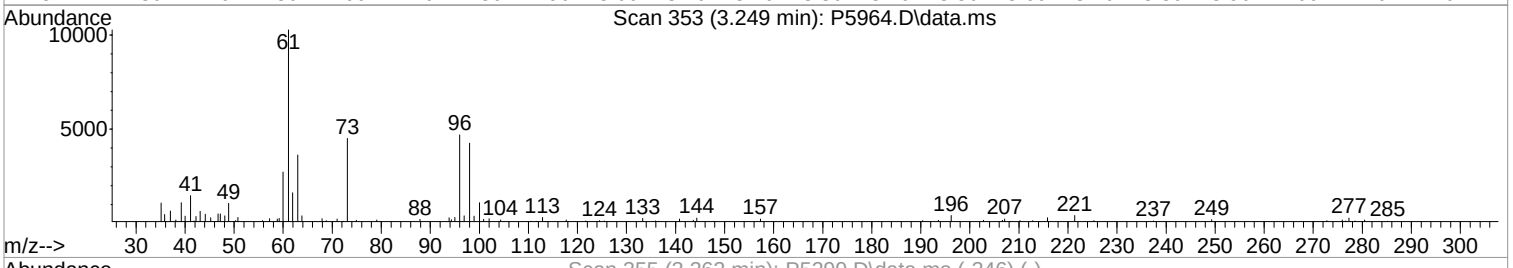


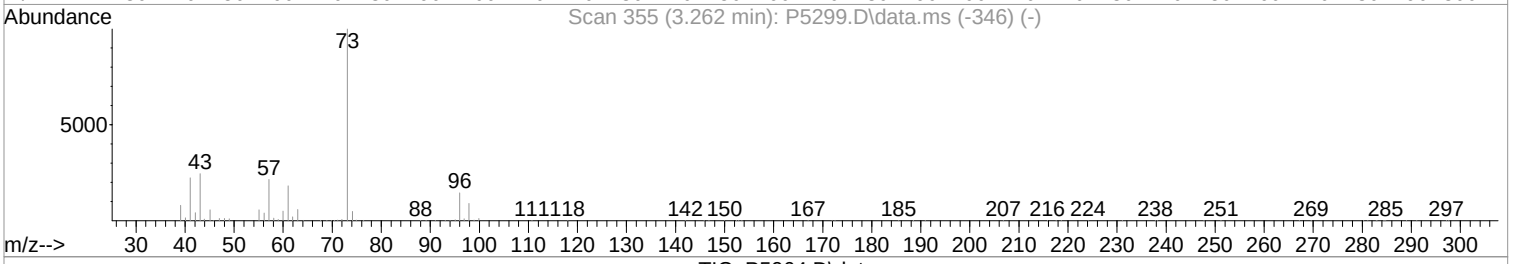
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5964.D
Acq On : 26 Oct 2016 3:54 pm
Operator : K.Ruest
Sample : R1611185-009|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 26 16:10:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5964.D\data.ms

(25) Methyl-t-Butyl Ether (P)

3.249min (-0.012) 0.52 ppb m

response 8397

Ion	Exp%	Act%
73.00	100	100
57.00	21.50	5.52
55.00	5.80	0.00
0.00	0.00	0.00

Manual Integration:

After

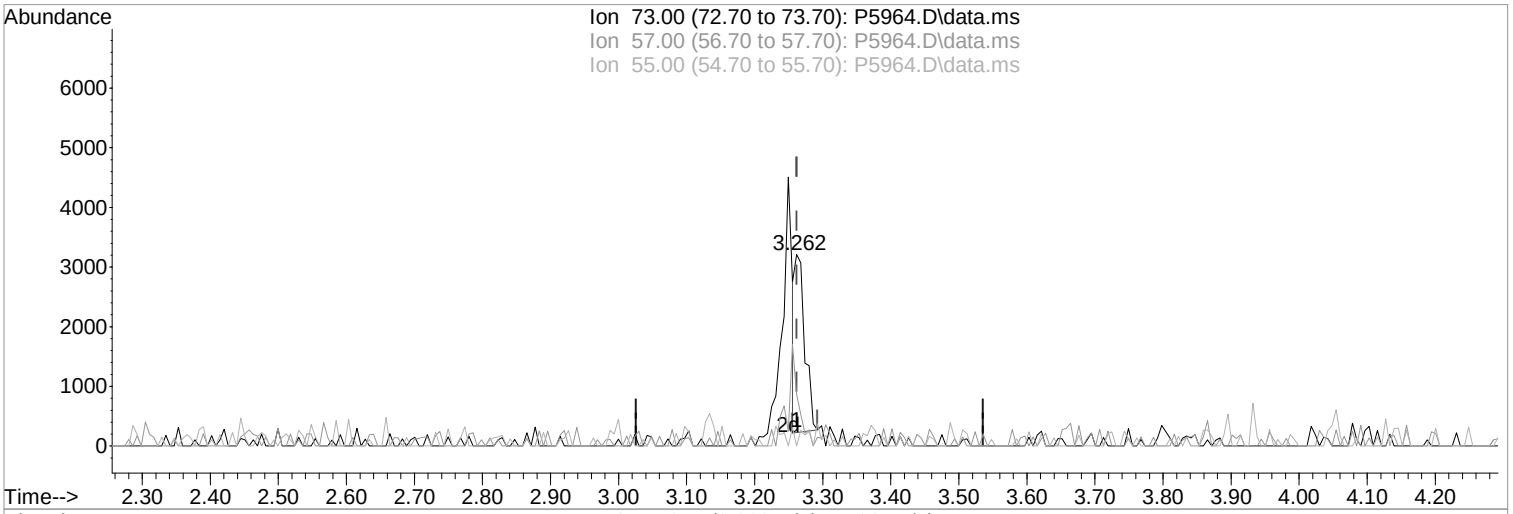
Split Peak

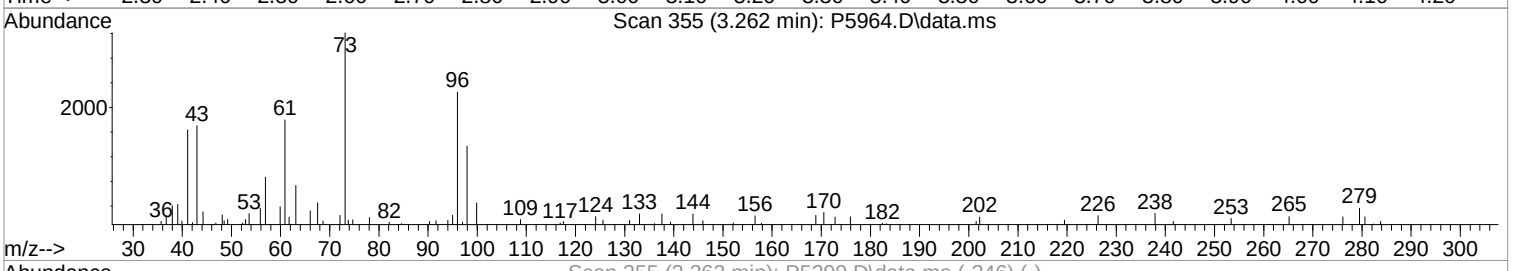
10/27/16

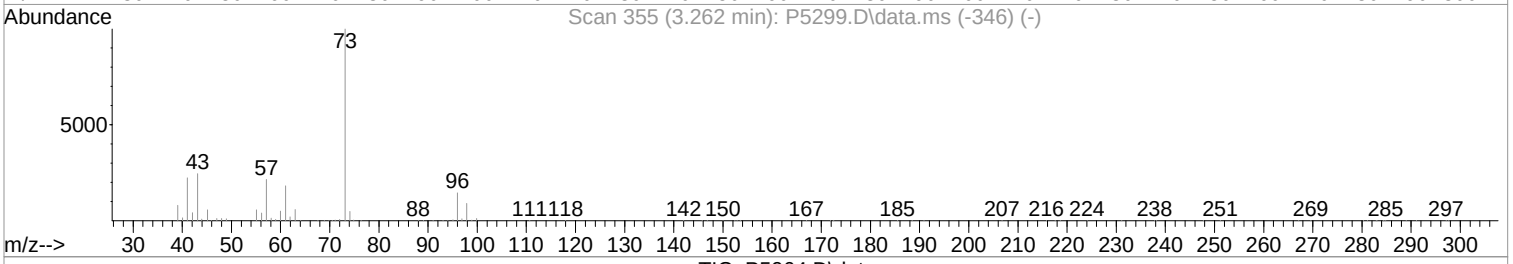
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5964.D
Acq On : 26 Oct 2016 3:54 pm
Operator : K.Ruest
Sample : R1611185-009|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 26 16:10:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5964.D\data.ms

(25) Methyl-t-Butyl Ether (P)

3.262min (-0.000) 0.19 ppb

response 2998

Ion	Exp%	Act%
73.00	100	100
57.00	21.50	26.91
55.00	5.80	0.00
0.00	0.00	0.00

Manual Integration:

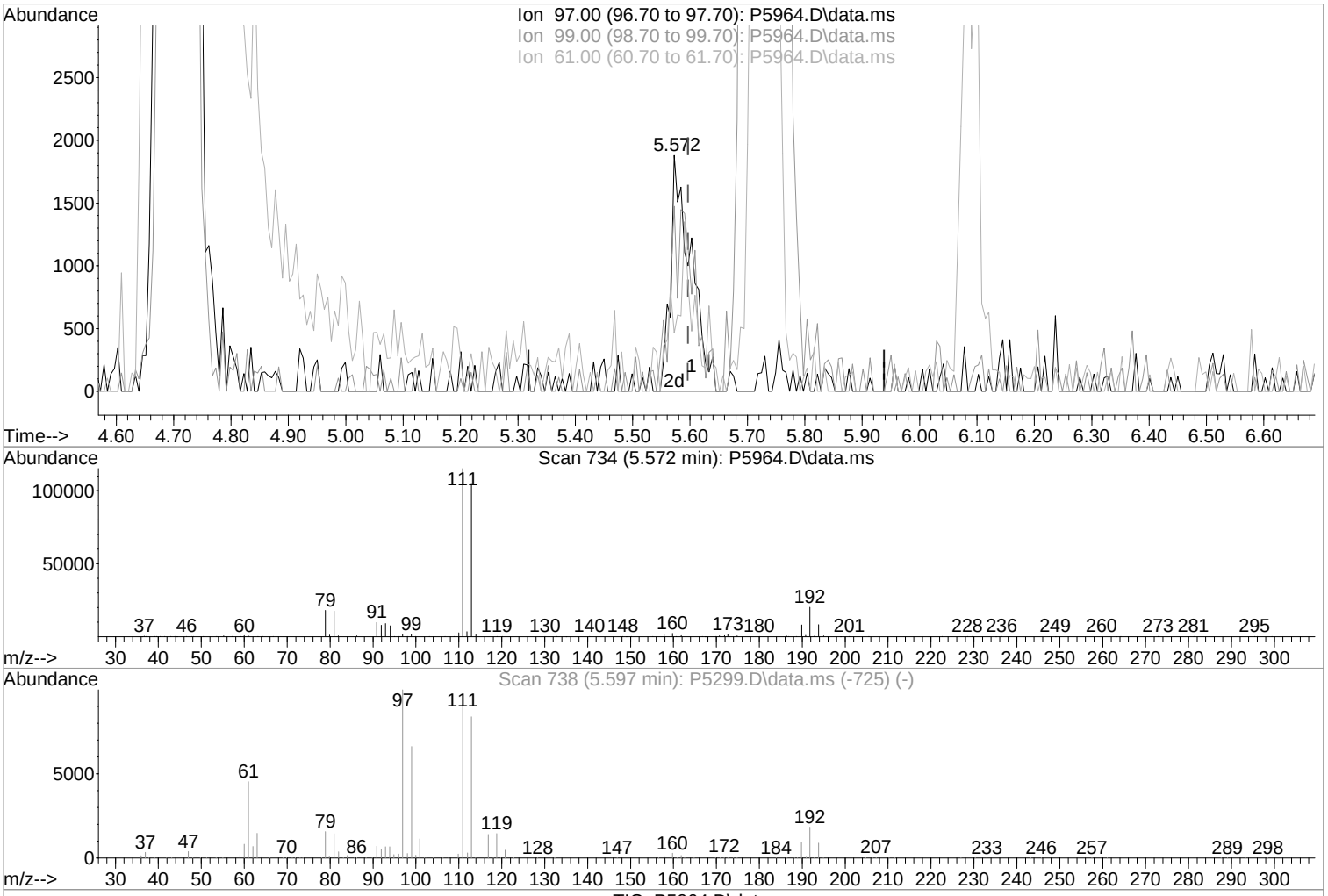
Before

10/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5964.D
Acq On : 26 Oct 2016 3:54 pm
Operator : K.Ruest
Sample : R1611185-009|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 26 16:10:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5964.D\data.ms

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

5.572min (-0.024) 0.48 ppb m

response 4627

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	78.46
61.00	45.30	24.84#
0.00	0.00	0.00

Manual Integration:

After

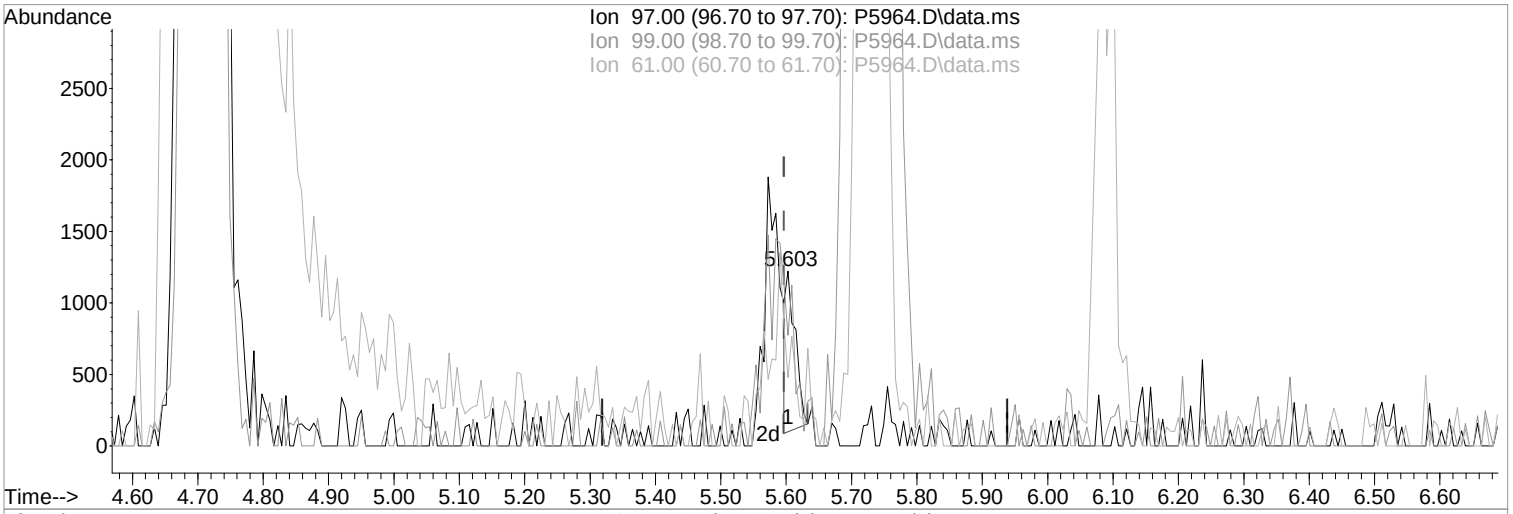
Split Peak

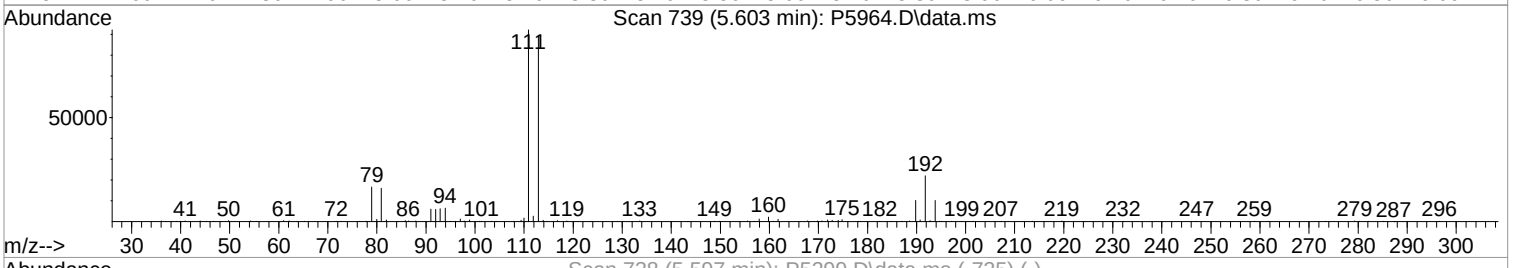
10/27/16

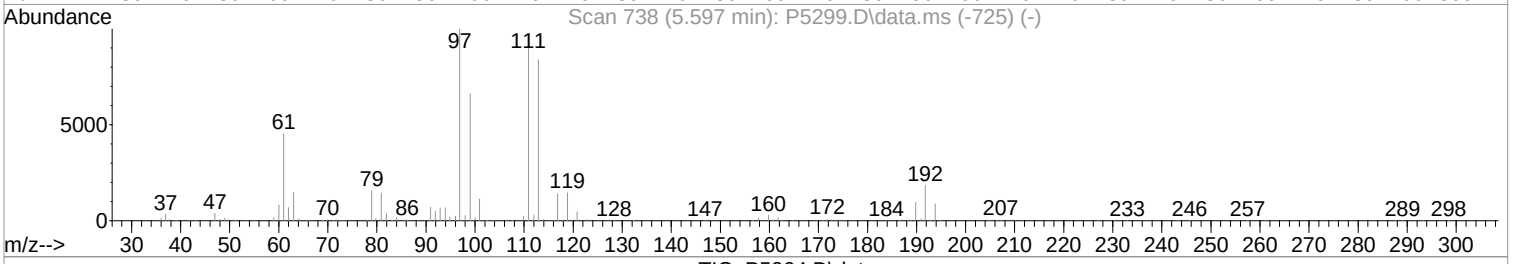
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5964.D
Acq On : 26 Oct 2016 3:54 pm
Operator : K.Ruest
Sample : R1611185-009|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 26 16:10:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5964.D\data.ms

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

5.603min (+0.006) 0.11 ppb

response 1092

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	63.29
61.00	45.30	39.17
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5964.D
Acq On : 26 Oct 2016 3:54 pm
Operator : K.Ruest
Sample : R1611185-009|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:43:46 2016 repeat 10
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	822208	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1311106	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1190392	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	612935	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	383179	54.76	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.52%				
48) surr1,1,2-dichloroetha...	6.090	65	414182	52.11	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.22%				
65) SURR3,Toluene-d8	8.529	98	1607190	56.05	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.10%				
70) SURR2,BFB	11.047	95	580447	51.89	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.78%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	1030661	158.44	ppb		98
7) Freon 21	1.920	67	16120	1.87	ppb		96
10) Freon 123a	2.231	67	8100	1.55	ppb	#	54
13) 1,1-Diclethene	2.420	96	8631	1.51	ppb	#	85
14) Freon 113	2.433	101	9785	1.61	ppb		83
25) Methyl-t-Butyl Ether	3.249	73	8397m	0.52	ppb		
26) trans-1,2-Dichloroethene	3.237	96	20445	3.18	ppb		88
28) 1,1-Diclethane	3.780	63	26171	2.45	ppb		82
34) cis-1,2-Dichloroethene	4.706	96	3837196	584.84	ppb		87
40) Chloroform	5.316	83	2177	0.21	ppb	#	70
41) 1,1,1-Trichloroethane	5.572	97	4627m	0.48	ppb		
54) Trichloroethene	7.084	130	12582	1.82	ppb	#	89

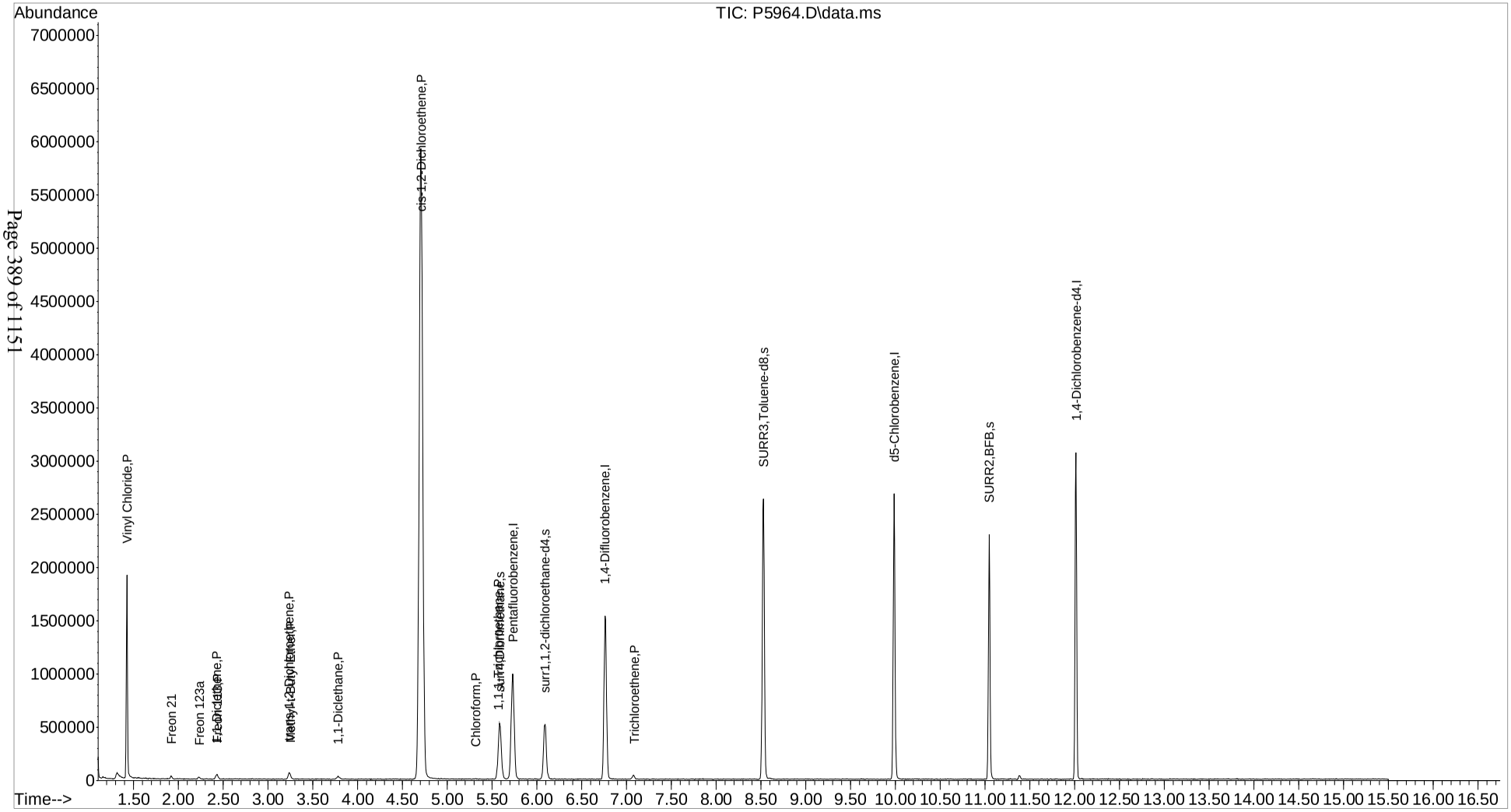
E-Over Calibration

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

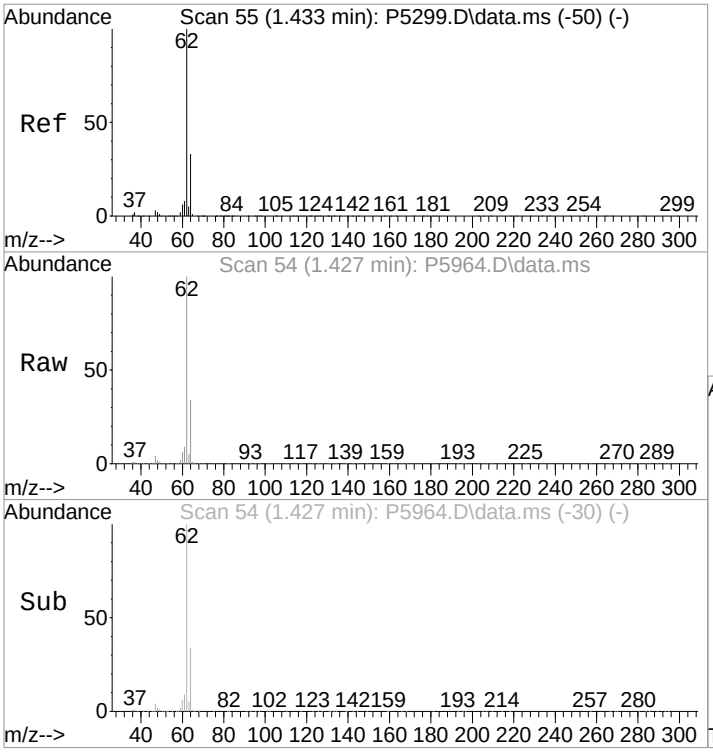
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5964.D
Acq On : 26 Oct 2016 3:54 pm
Operator : K.Ruest
Sample : R1611185-009|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:43:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



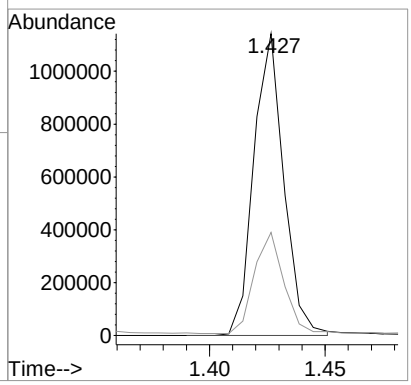
1st 10/27/16
2nd 10/27/16

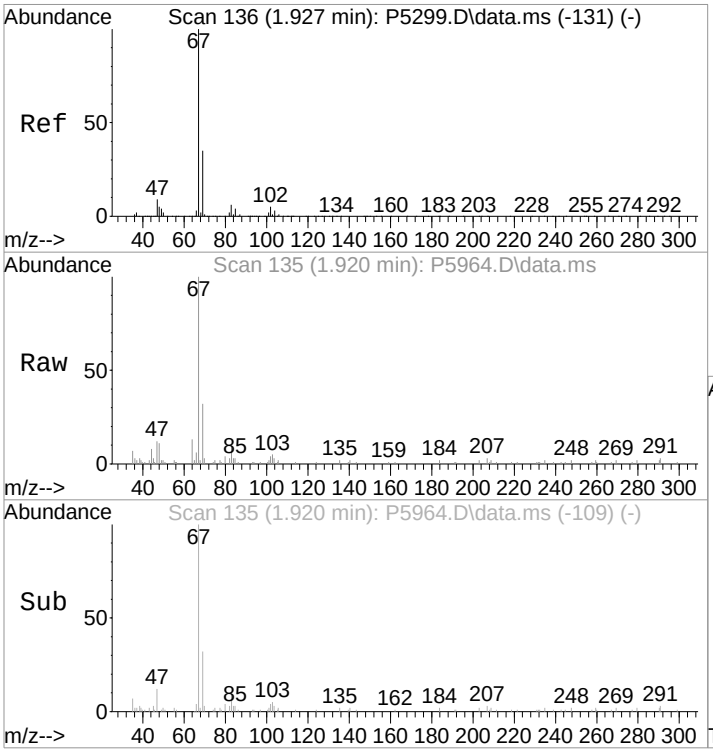


#4
Vinyl Chloride
Concen: 158.44 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 62 Resp: 1030661

Ion	Ratio	Lower	Upper
62	100		
64	34.2	13.1	53.1

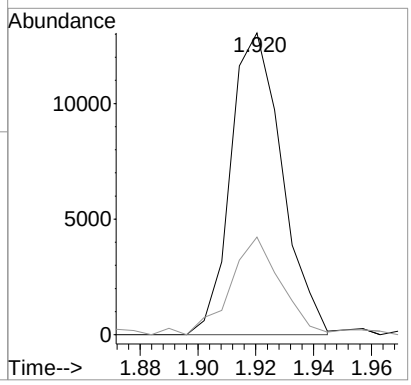


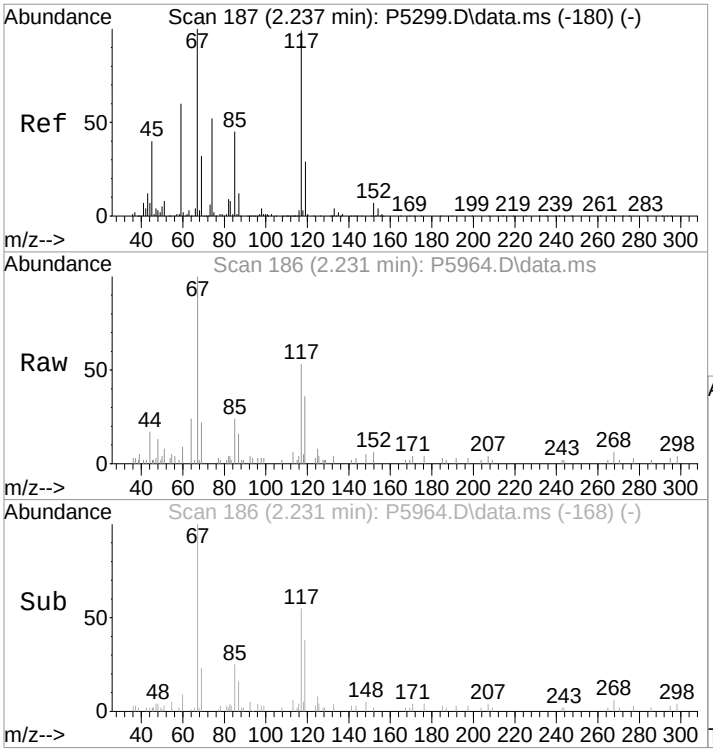


#7
Freon 21
Concen: 1.87 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 67 Resp: 16120

Ion	Ratio	Lower	Upper
67	100		
69	32.4	14.4	54.4

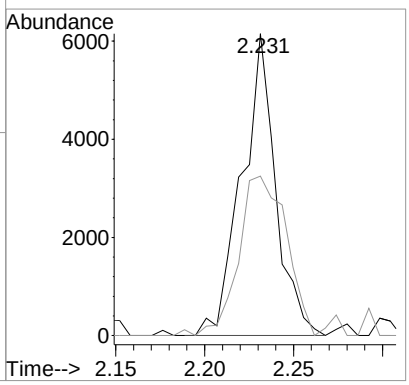


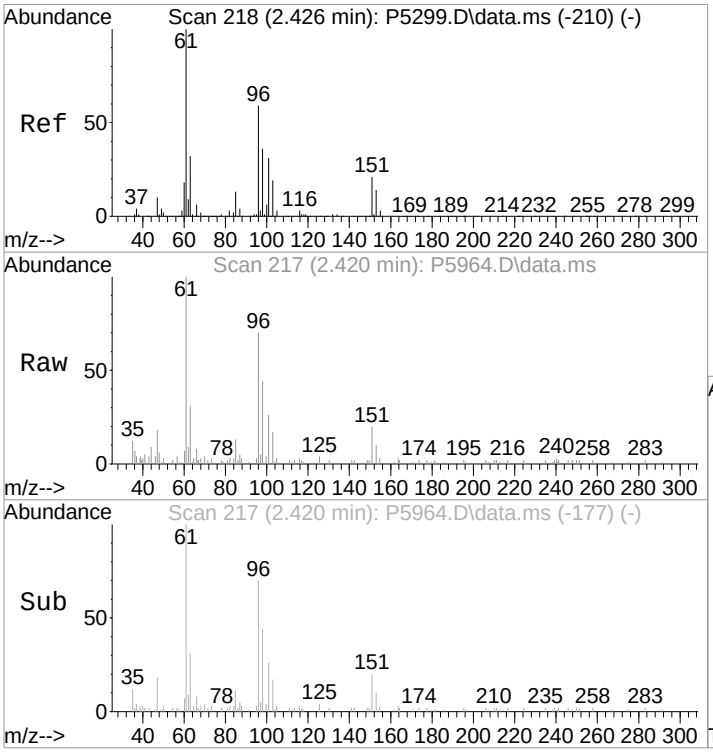


#10
Freon 123a
Concen: 1.55 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 67 Resp: 8100

Ion	Ratio	Lower	Upper
67	100		
117	52.7	78.8	118.8#

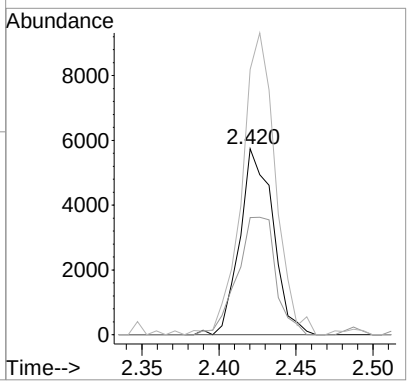


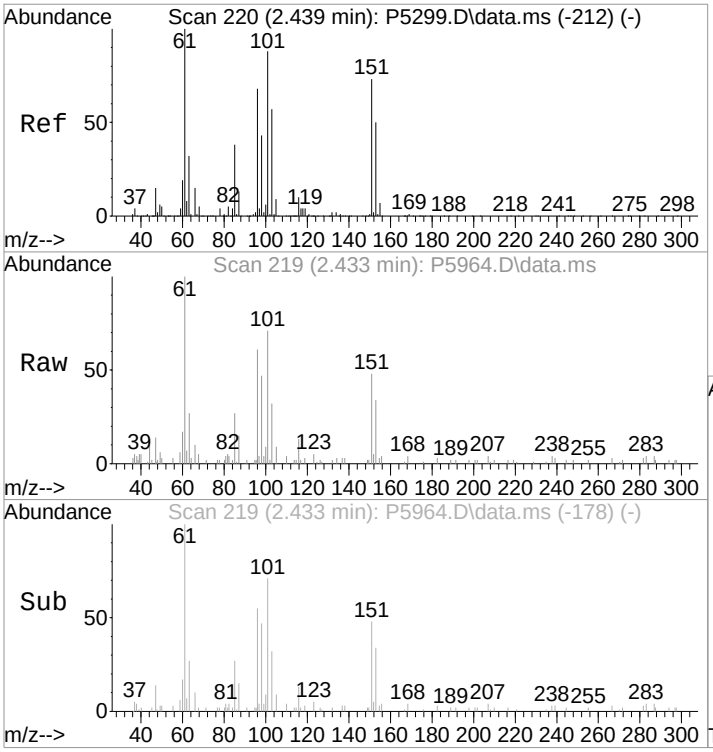


#13
1,1-Diclethene
Concen: 1.51 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 96 Resp: 8631

Ion	Ratio	Lower	Upper
96	100		
98	62.9	41.8	81.8
61	142.6	150.1	190.1#

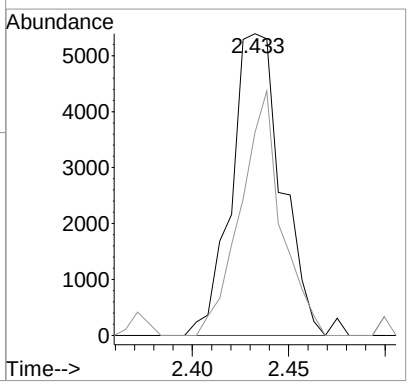


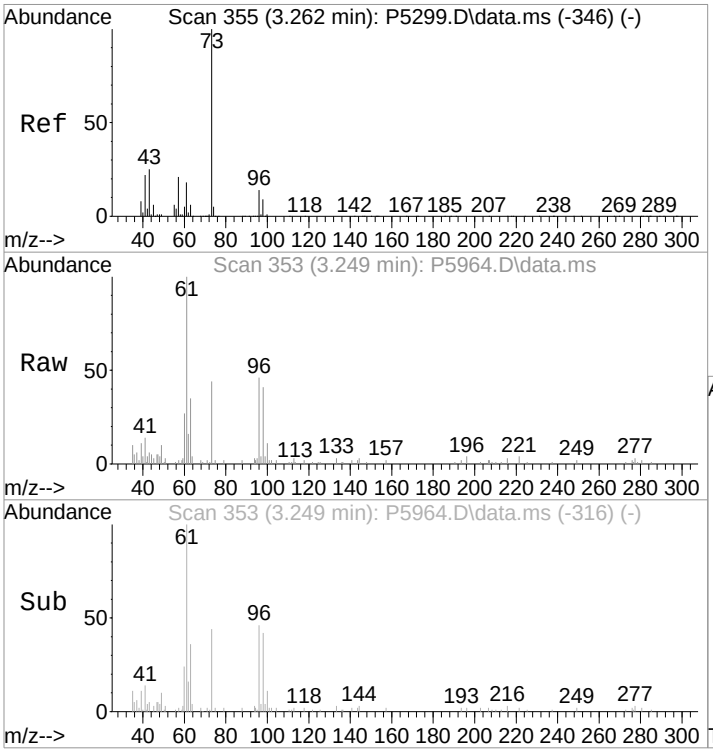


#14
Freon 113
Concen: 1.61 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion:101 Resp: 9785

Ion	Ratio	Lower	Upper
101	100		
151	67.2	62.6	102.6

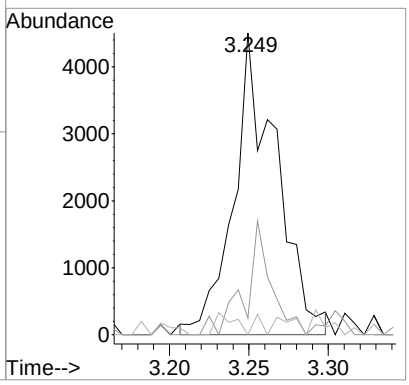


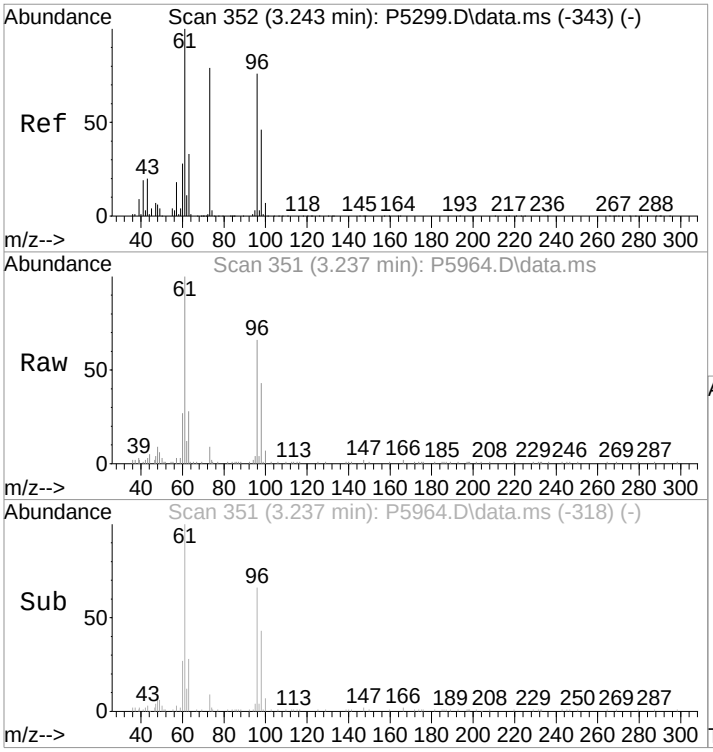


#25
Methyl-t-Butyl Ether
Concen: 0.52 ppb m
RT: 3.249 min Scan# 353
Delta R.T. -0.012 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 73 Resp: 8397

Ion	Ratio	Lower	Upper
73	100		
57	5.5	1.5	41.5
55	0.0	0.0	25.8

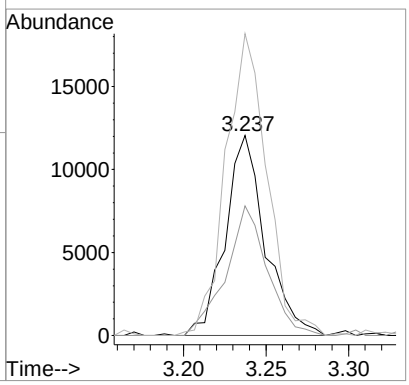


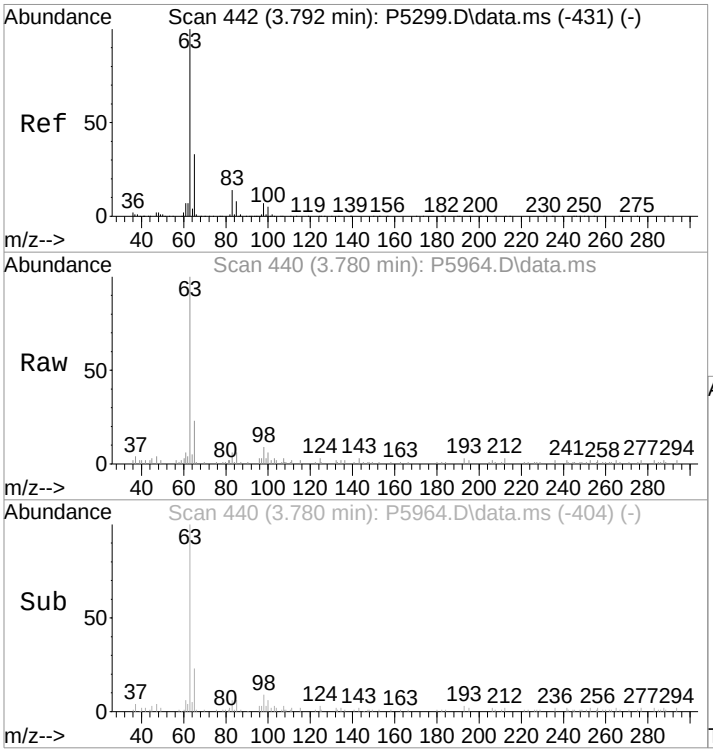


#26
trans-1,2-Dichloroethene
Concen: 3.18 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 96 Resp: 20445

Ion	Ratio	Lower	Upper
96	100		
98	64.8	41.0	81.0
61	150.8	112.4	152.4

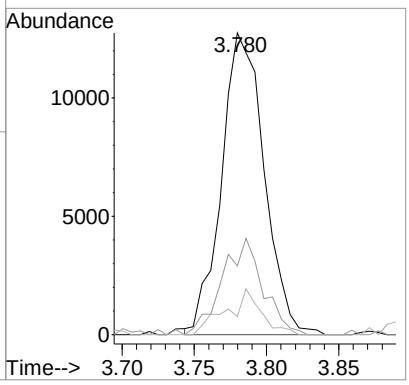


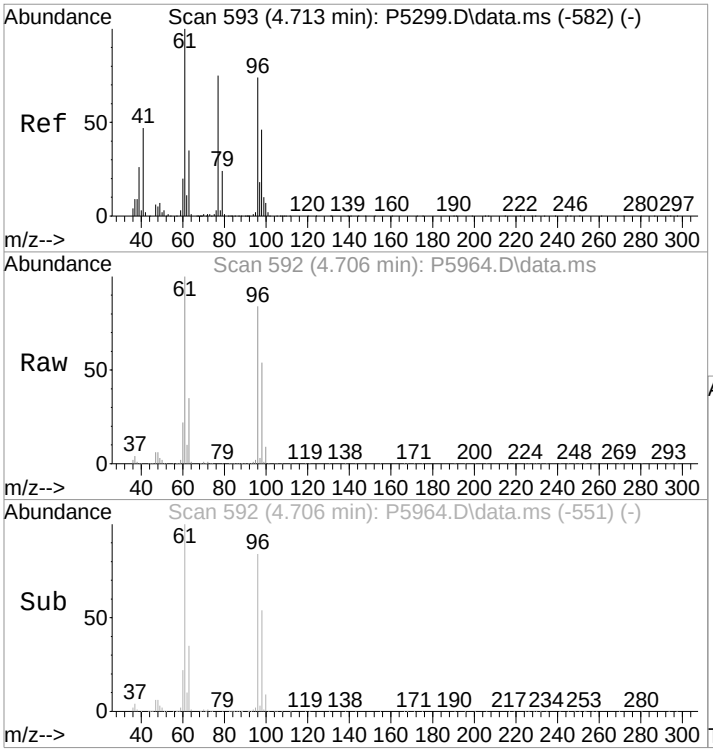


#28
1,1-Diclethane
Concen: 2.45 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 63 Resp: 26171

Ion	Ratio	Lower	Upper
63	100		
65	22.8	12.9	52.9
83	6.1	0.0	33.5

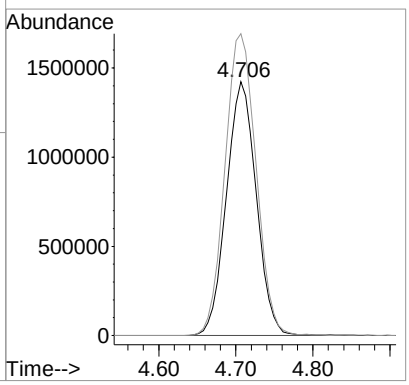


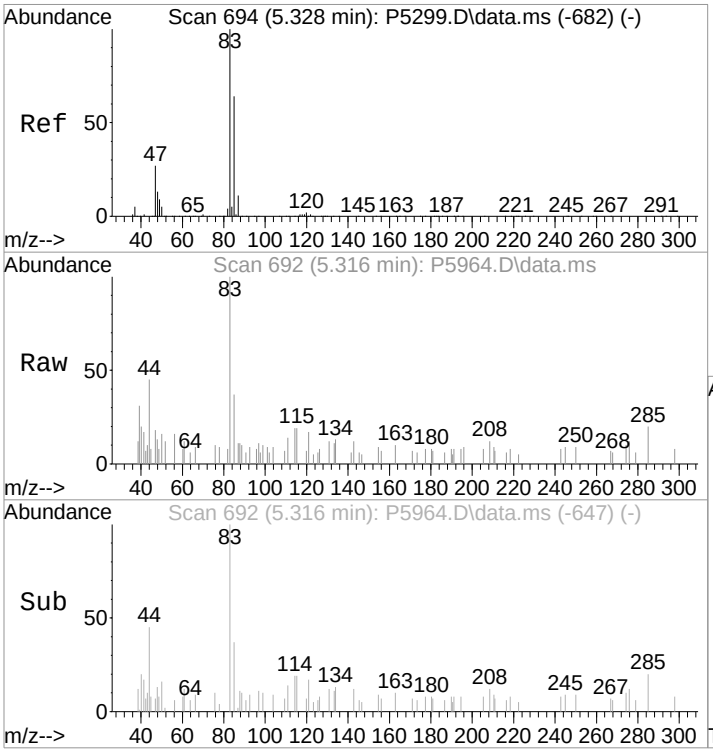


#34
cis-1,2-Dichloroethene
Concen: 584.84 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 96 Resp: 3837196

Ion	Ratio	Lower	Upper
96	100		
61	119.0	114.6	154.6

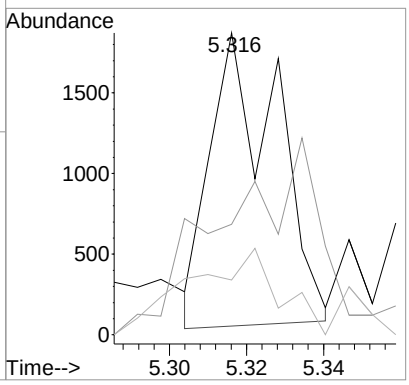


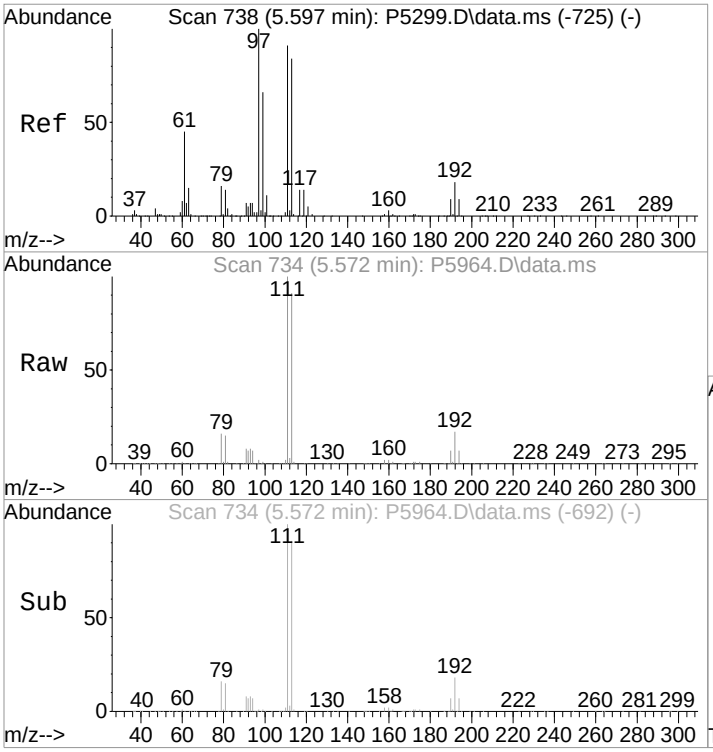


#40
Chloroform
Concen: 0.21 ppb
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 83 Resp: 2177

Ion	Ratio	Lower	Upper
83	100		
85	36.6	44.1	84.1#
47	18.2	7.4	47.4

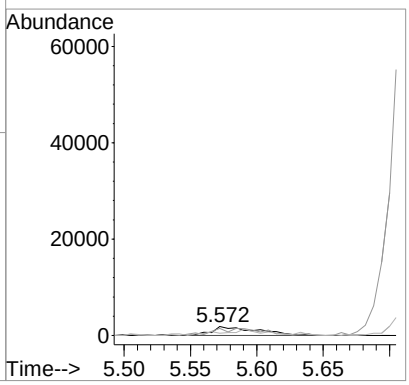


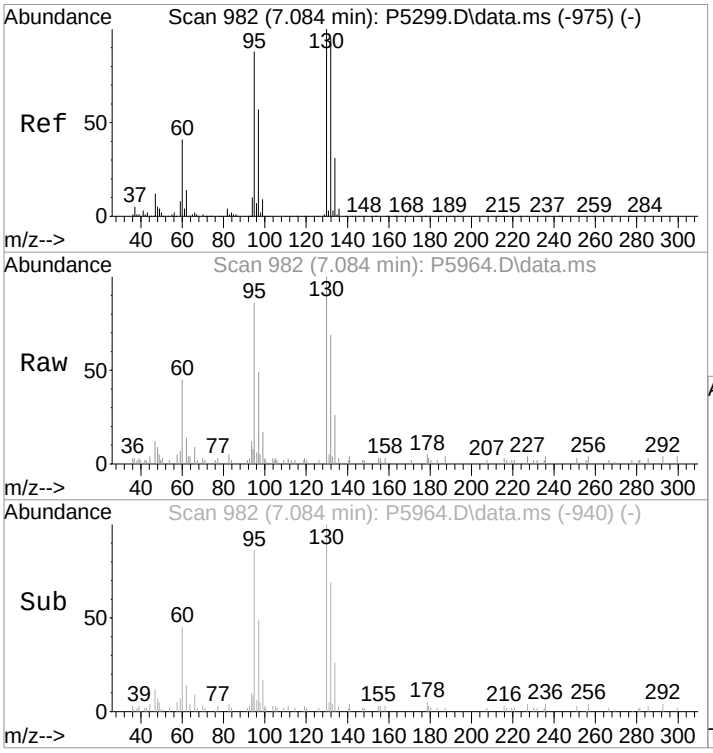


#41
1,1,1-Trichloroethane
Concen: 0.48 ppb m
RT: 5.572 min Scan# 734
Delta R.T. -0.024 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion: 97 Resp: 4627

Ion	Ratio	Lower	Upper
97	100		
99	78.5	46.2	86.2
61	24.8	25.3	65.3#

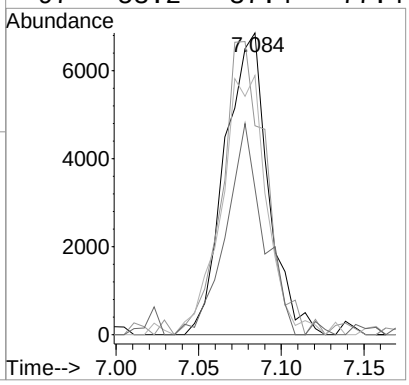




#54
Trichloroethene
Concen: 1.82 ppb
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P5964.D
Acq: 26 Oct 2016 3:54 pm

Tgt Ion:130 Resp: 12582

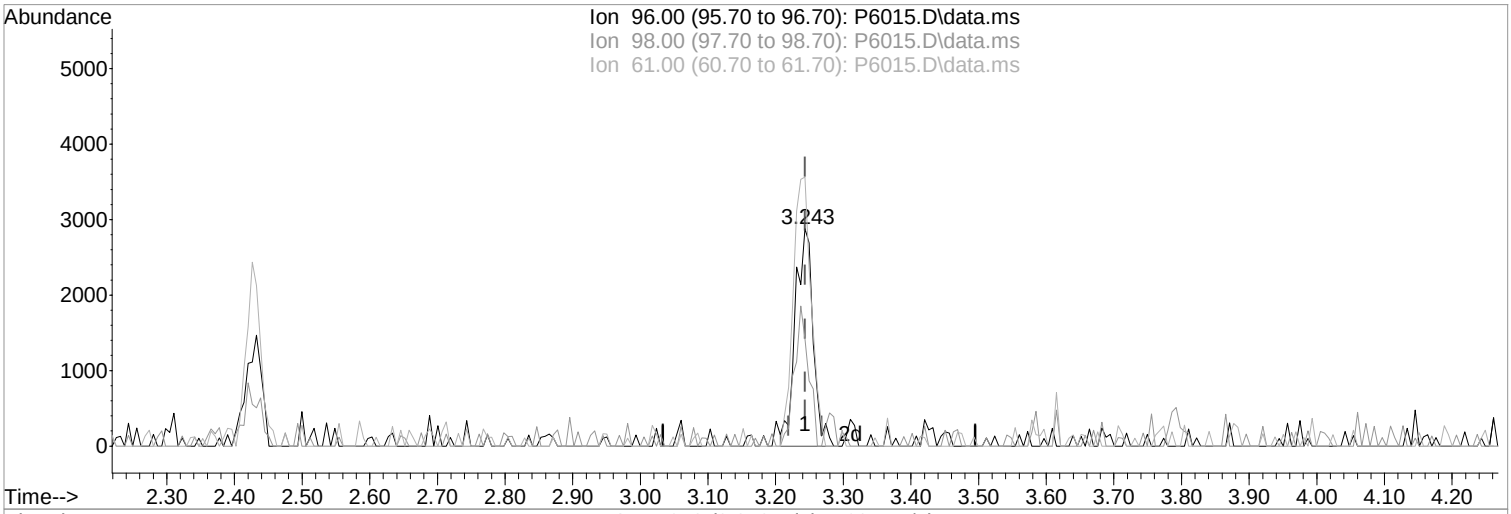
Ion	Ratio	Lower	Upper
130	100		
132	72.8	75.2	115.2#
95	85.8	68.1	108.1
97	53.2	37.4	77.4

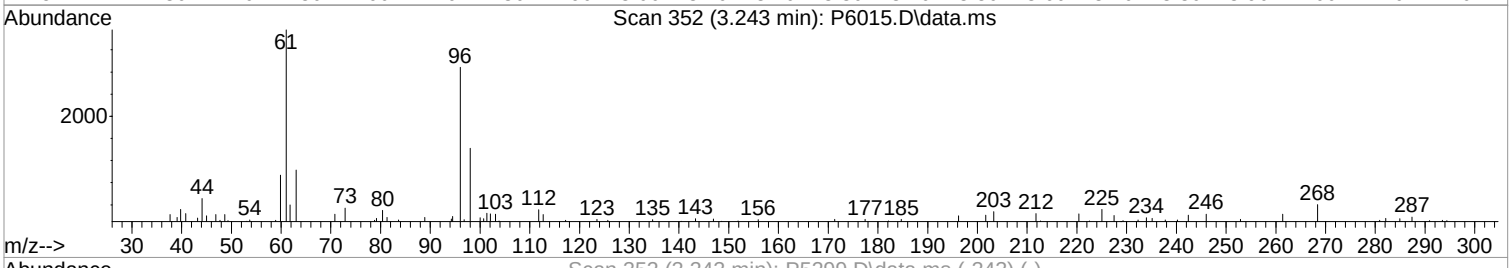


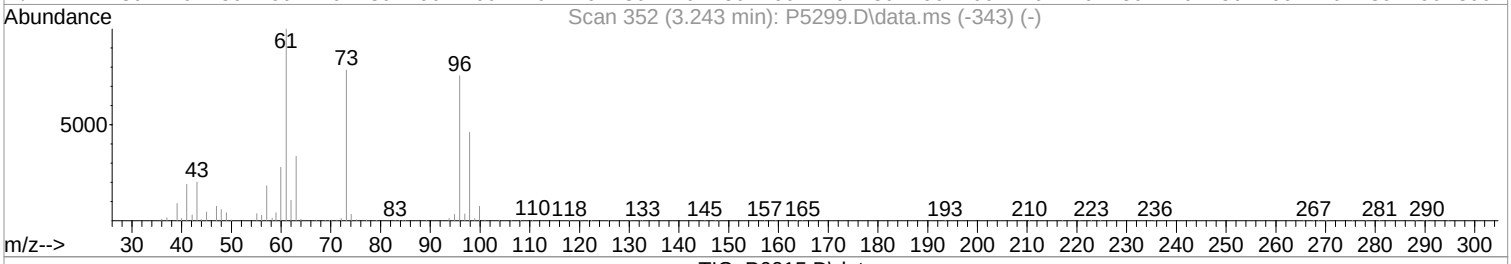
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6015.D
Acq On : 27 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-009|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 08:38:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6015.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.85 ppb m

response 5224

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	49.39
61.00	132.40	123.62
0.00	0.00	0.00

Manual Integration:

After

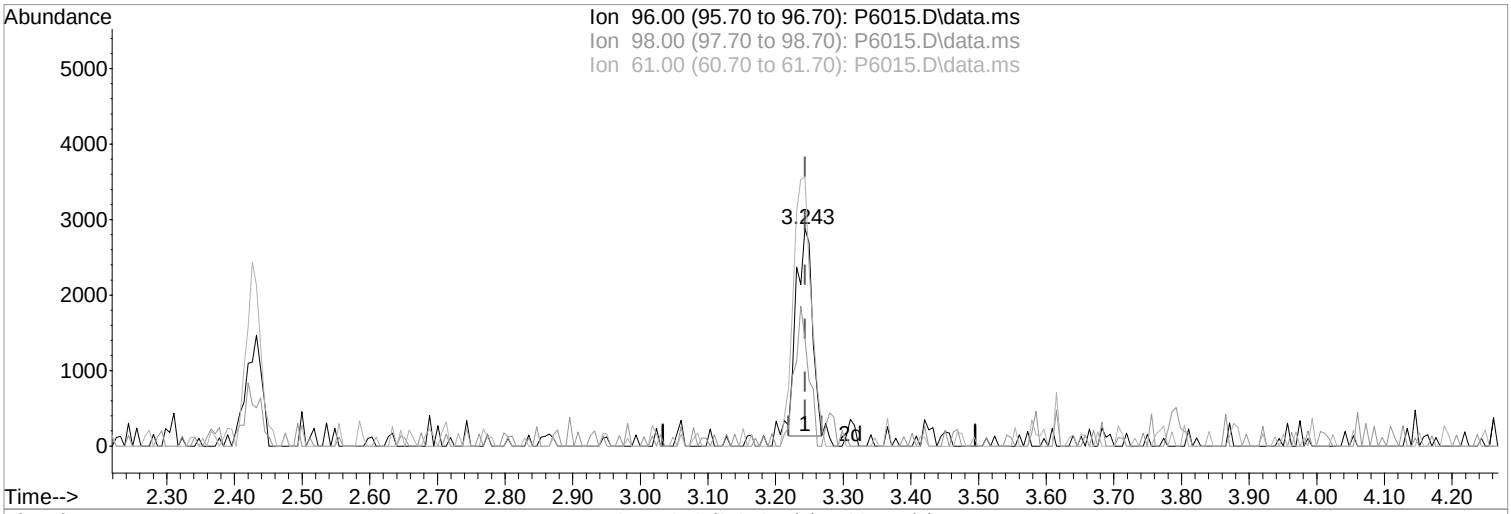
Poor integration.

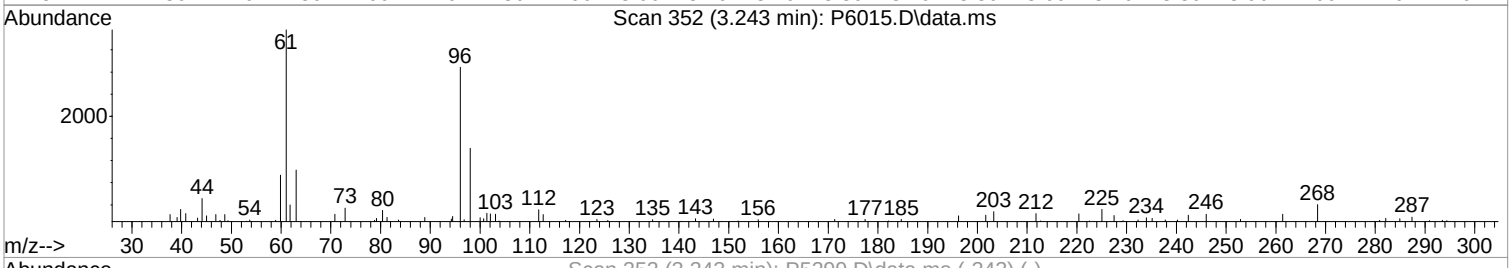
10/28/16

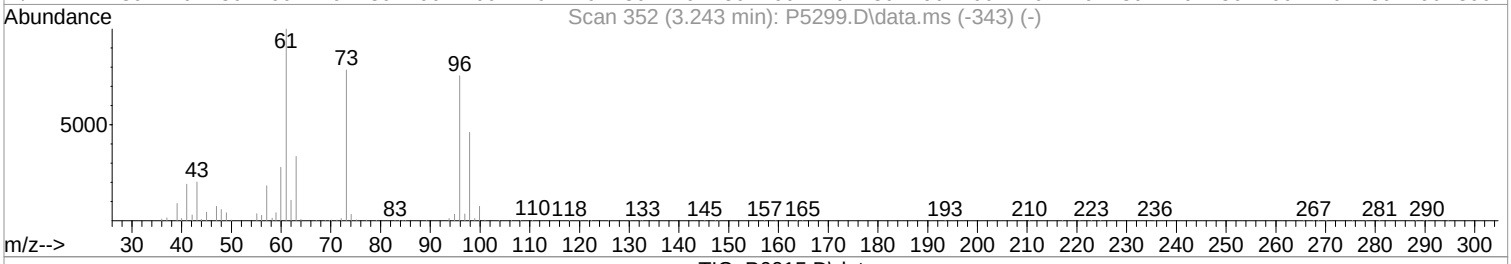
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6015.D
Acq On : 27 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-009|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 08:38:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6015.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.73 ppb

response 4459

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	49.39
61.00	132.40	123.62
0.00	0.00	0.00

Manual Integration:

Before

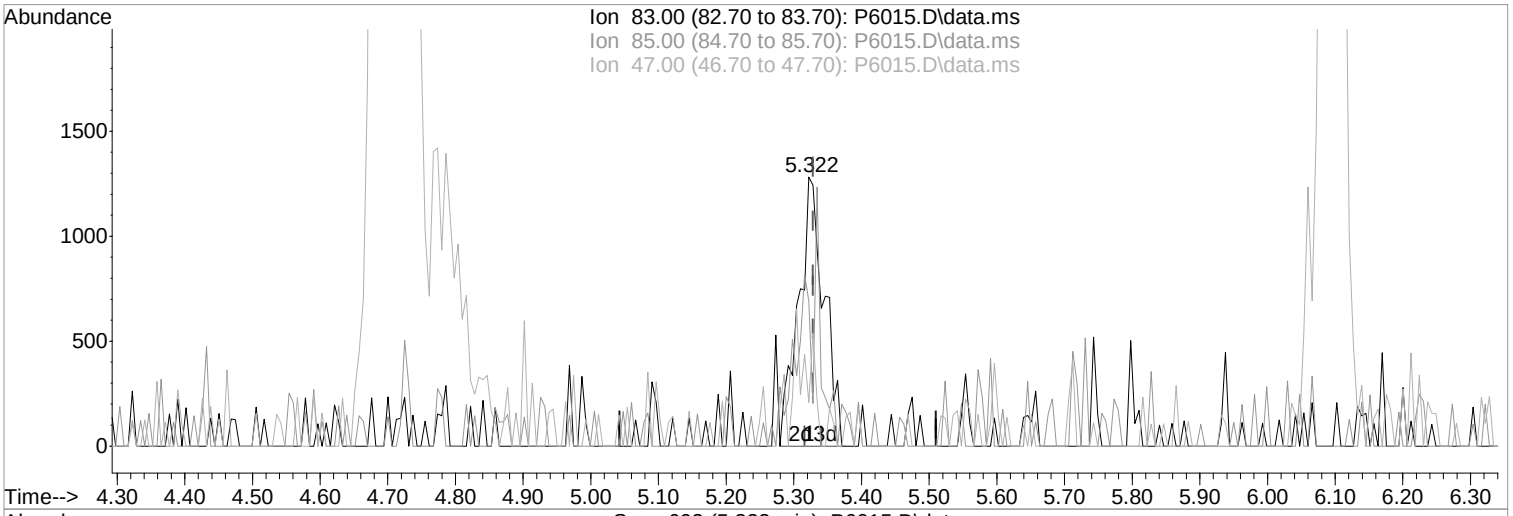
10/28/16

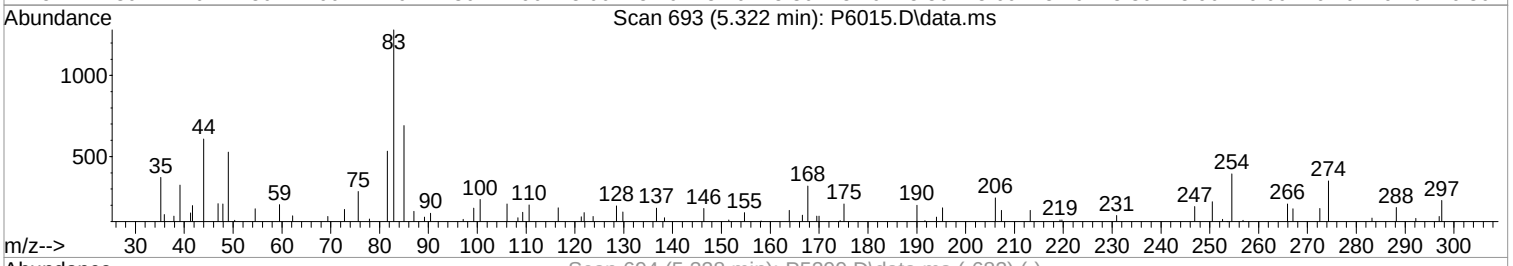
1st 10/28/16
2nd 10/31/16

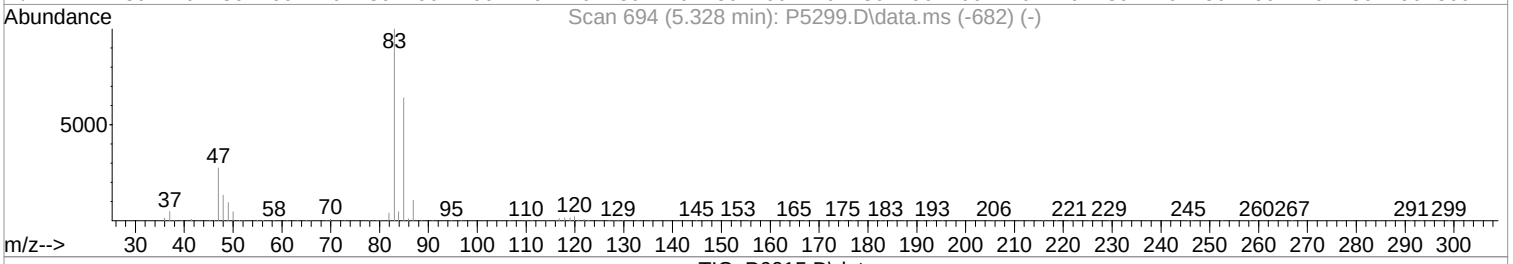
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6015.D
Acq On : 27 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-009|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 08:38:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6015.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 0.34 ppb m

response 3369

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	53.90
47.00	27.40	16.30
0.00	0.00	0.00

Manual Integration:

After

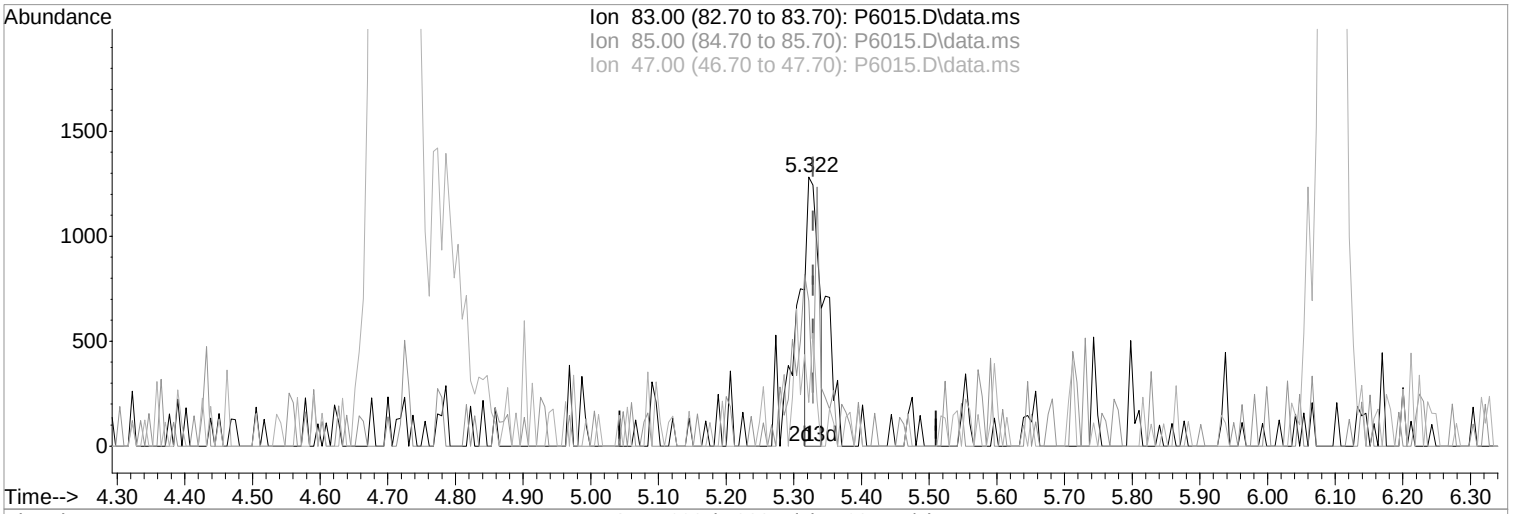
Split Peak

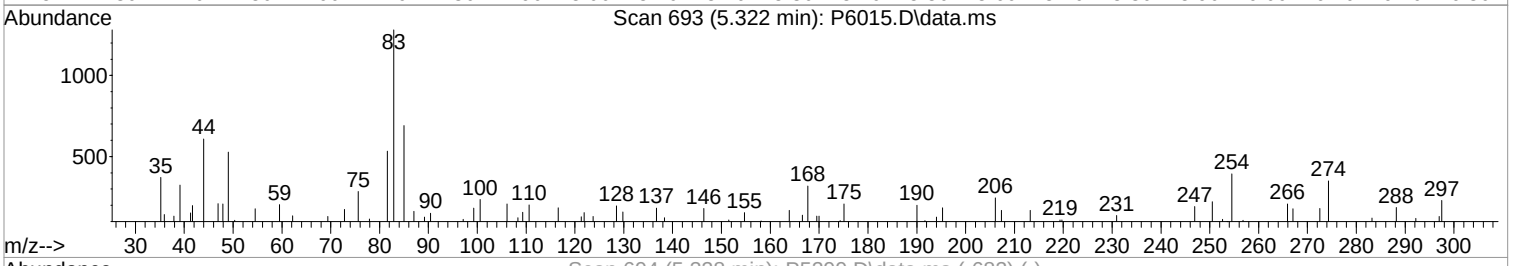
10/28/16

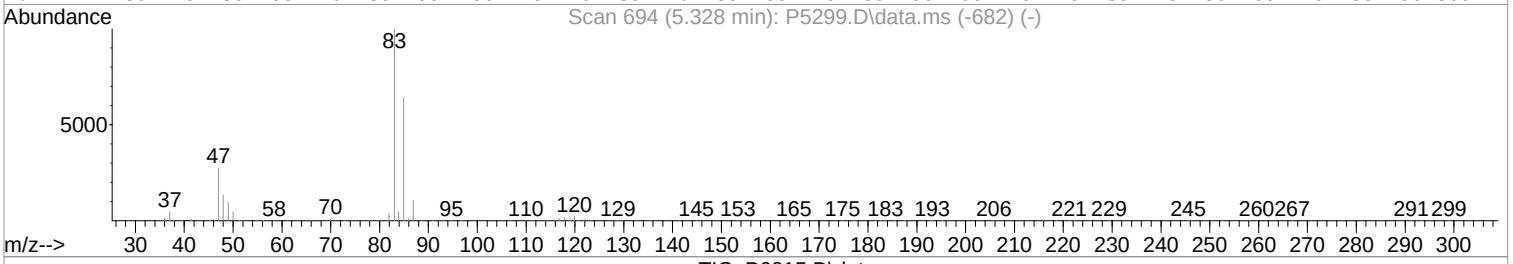
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6015.D
Acq On : 27 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-009|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 08:38:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6015.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 0.15 ppb

response 1509

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	53.90
47.00	27.40	16.30
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6015.D
Acq On : 27 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-009|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 13:51:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

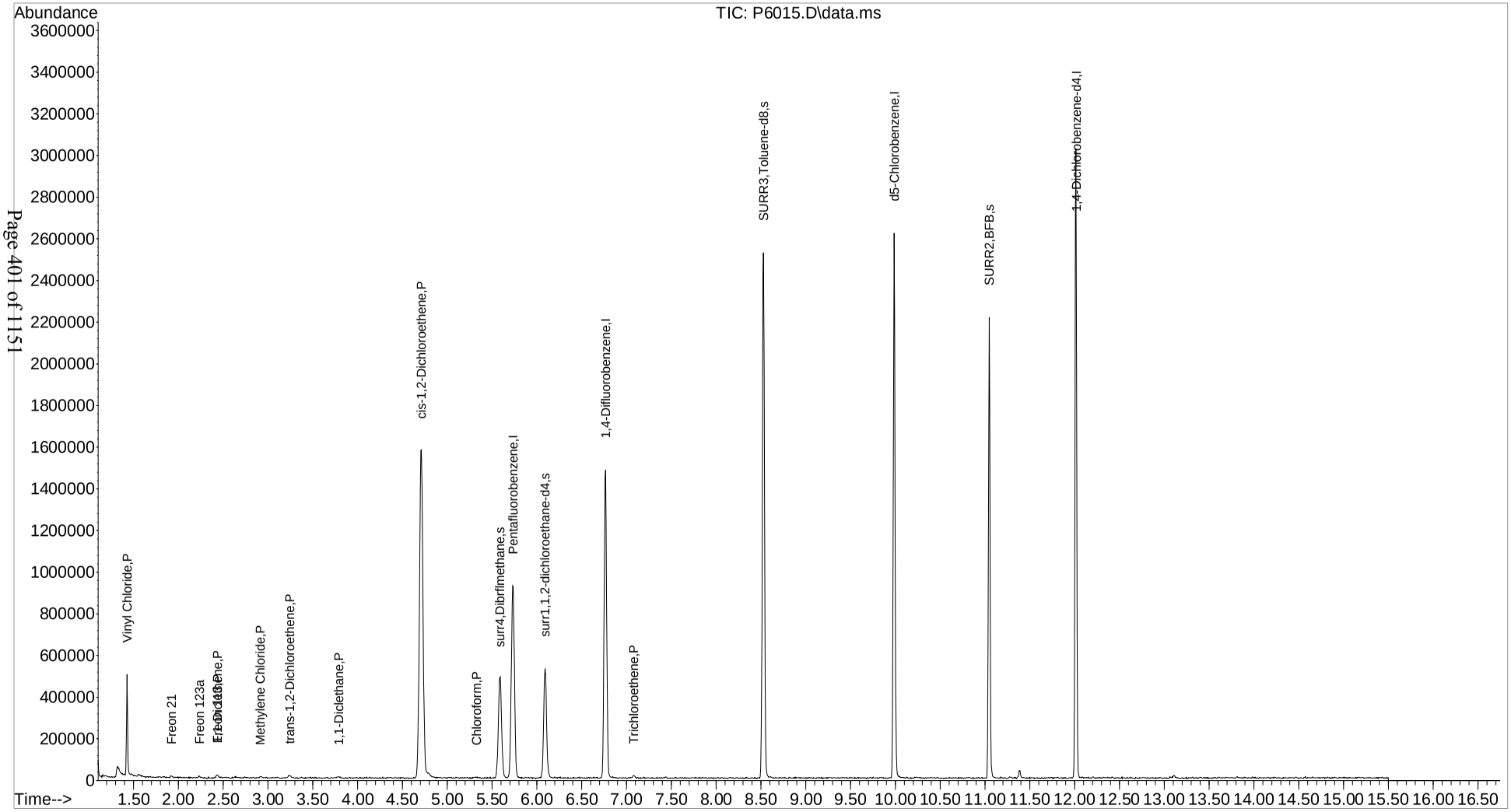
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	783197	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1269777	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1160719	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	614039	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	372277	54.93	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.86%				
48) surr1,1,2-dichloroetha...	6.090	65	422996	54.95	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.90%				
65) SURR3,Toluene-d8	8.529	98	1573220	56.65	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.30%				
70) SURR2,BFB	11.047	95	572592	52.85	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.70%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	264807	42.74	ppb		99
7) Freon 21	1.920	67	3709	0.45	ppb		84
10) Freon 123a	2.231	67	2361	0.47	ppb	#	78
13) 1,1-Diclethene	2.433	96	2425	0.45	ppb	#	77
14) Freon 113	2.433	101	2766	0.48	ppb		82
22) Methylene Chloride	2.914	84	2004	0.35	ppb	#	80
26) trans-1,2-Dichloroethene	3.243	96	5224m	0.85	ppb		
28) 1,1-Diclethane	3.792	63	6081	0.60	ppb		97
34) cis-1,2-Dichloroethene	4.706	96	993834	159.02	ppb		94
40) Chloroform	5.322	83	3369m	0.34	ppb		
54) Trichloroethene	7.078	130	3393	0.51	ppb	#	49

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

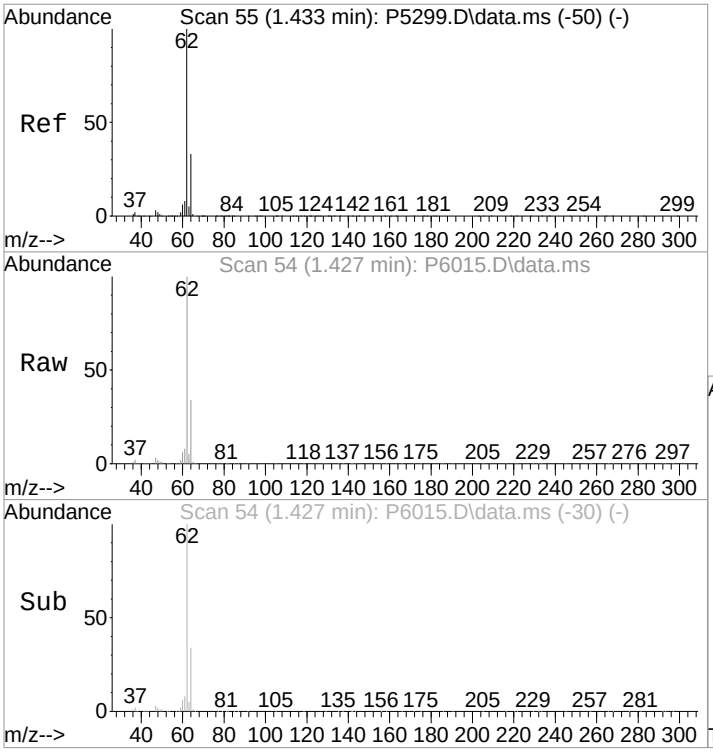
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6015.D
Acq On : 27 Oct 2016 6:53 pm
Operator : K.Ruest
Sample : R1611185-009|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 28 13:51:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



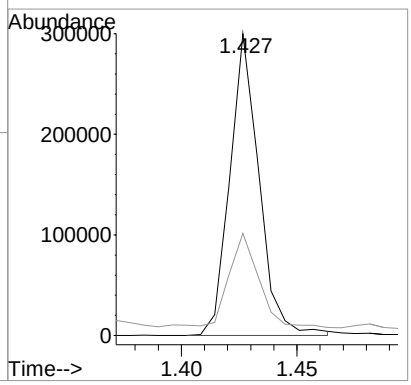
1st 10/28/16
2nd 10/31/16

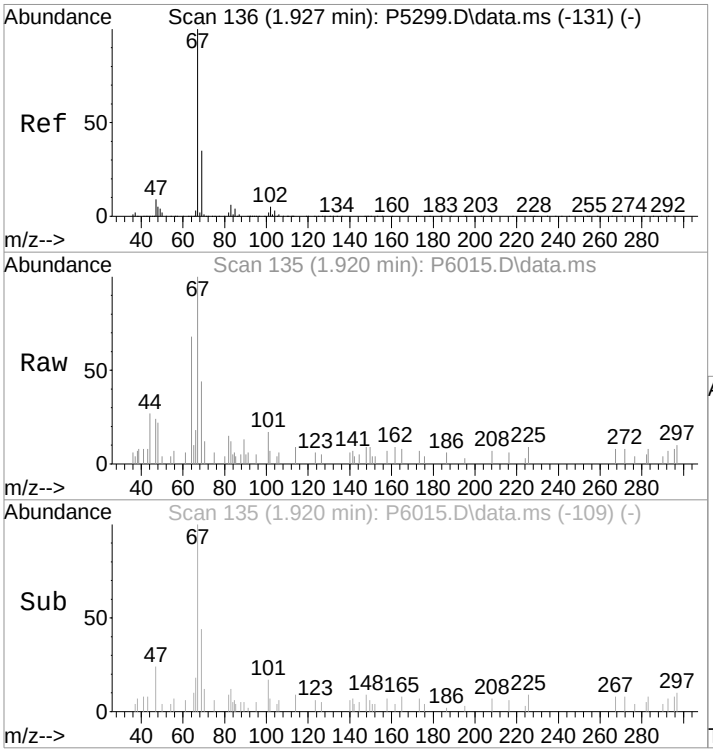


#4
Vinyl Chloride
Concen: 42.74 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 62 Resp: 264807

Ion	Ratio	Lower	Upper
62	100		
64	33.9	13.1	53.1

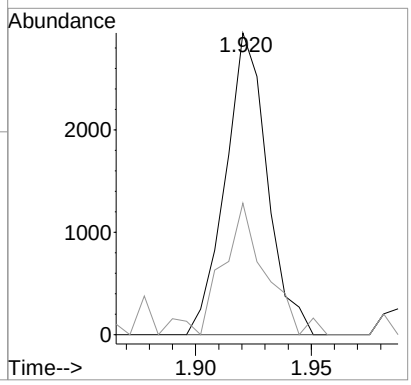


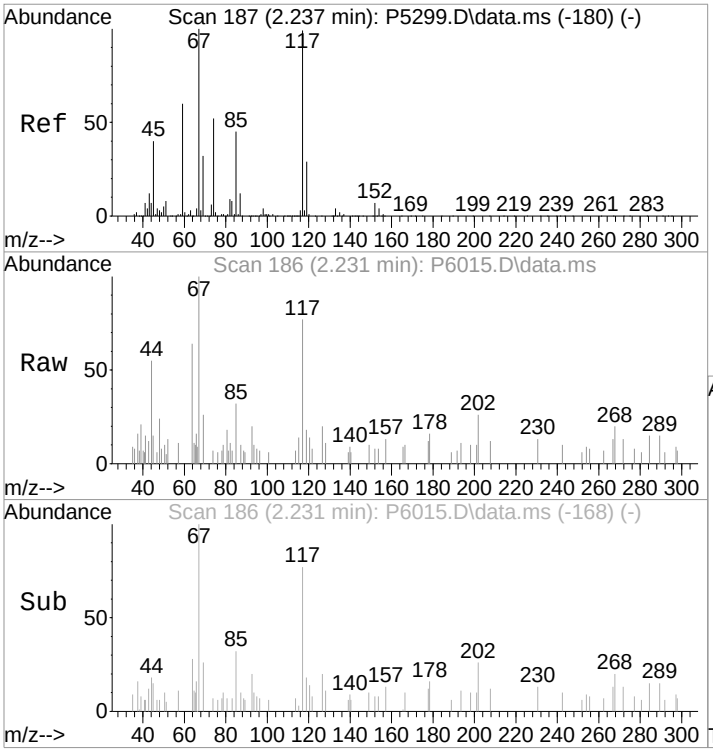


#7
Freon 21
Concen: 0.45 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 67 Resp: 3709

Ion	Ratio	Lower	Upper
67	100		
69	43.6	14.4	54.4

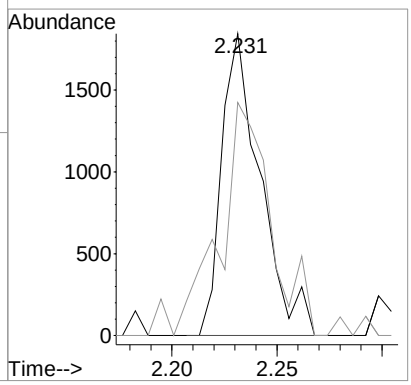


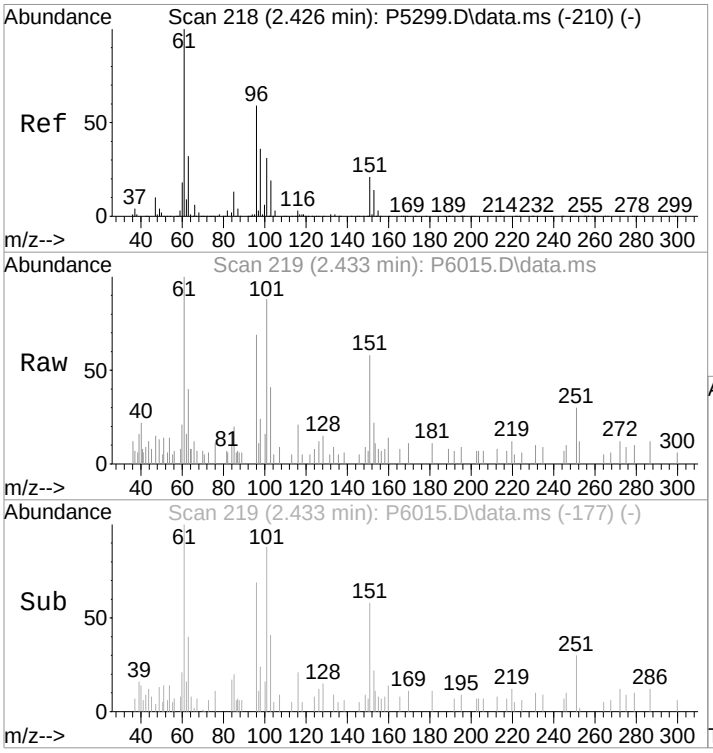


#10
Freon 123a
Concen: 0.47 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 67 Resp: 2361

Ion	Ratio	Lower	Upper
67	100		
117	77.1	78.8	118.8#

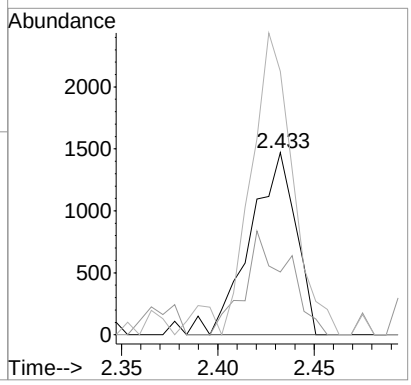


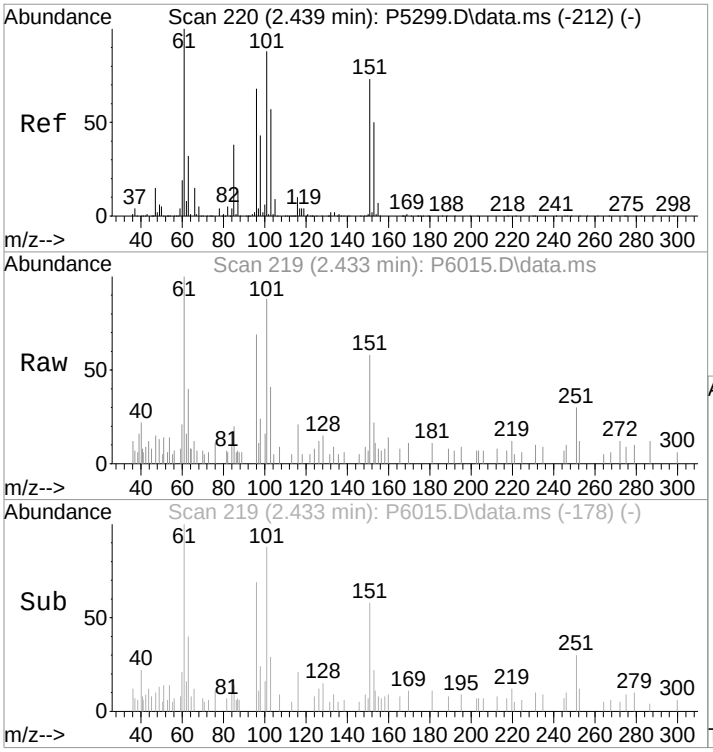


#13
1,1-Diclethene
Concen: 0.45 ppb
RT: 2.433 min Scan# 219
Delta R.T. 0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 96 Resp: 2425

Ion	Ratio	Lower	Upper
96	100		
98	34.6	41.8	81.8#
61	144.6	150.1	190.1#

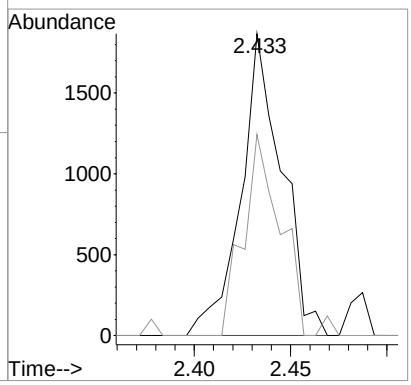


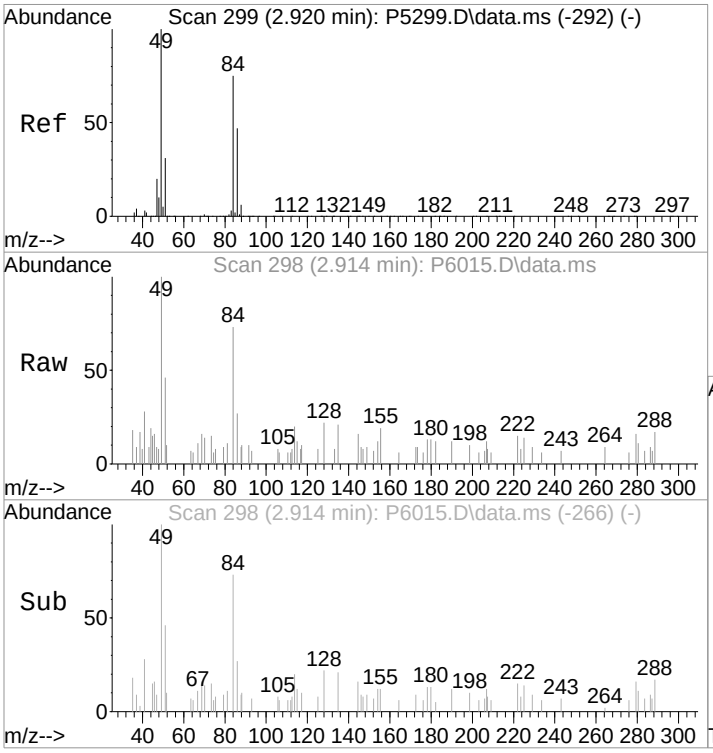


#14
Freon 113
Concen: 0.48 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion:101 Resp: 2766

Ion	Ratio	Lower	Upper
101	100		
151	66.5	62.6	102.6

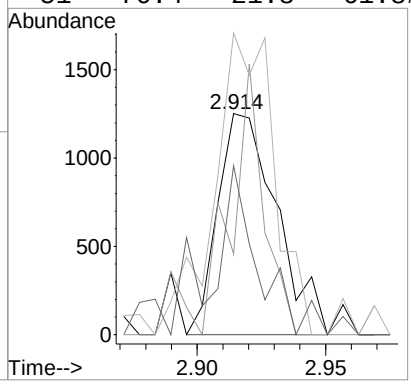


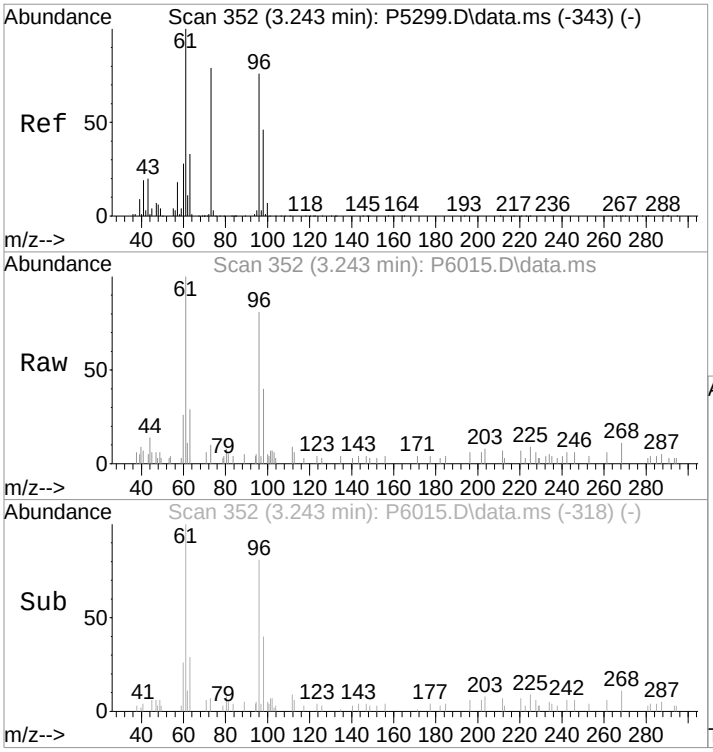


#22
Methylene Chloride
Concen: 0.35 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 84 Resp: 2004

Ion	Ratio	Lower	Upper
84	100		
86	36.7	42.8	82.8#
49	136.5	113.9	153.9
51	76.4	21.8	61.8#

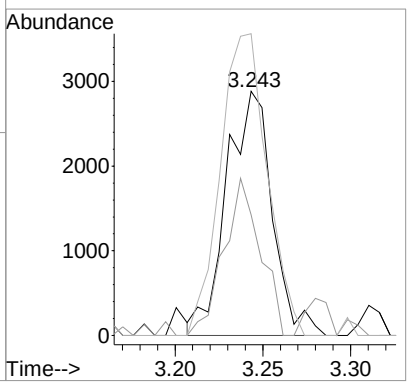


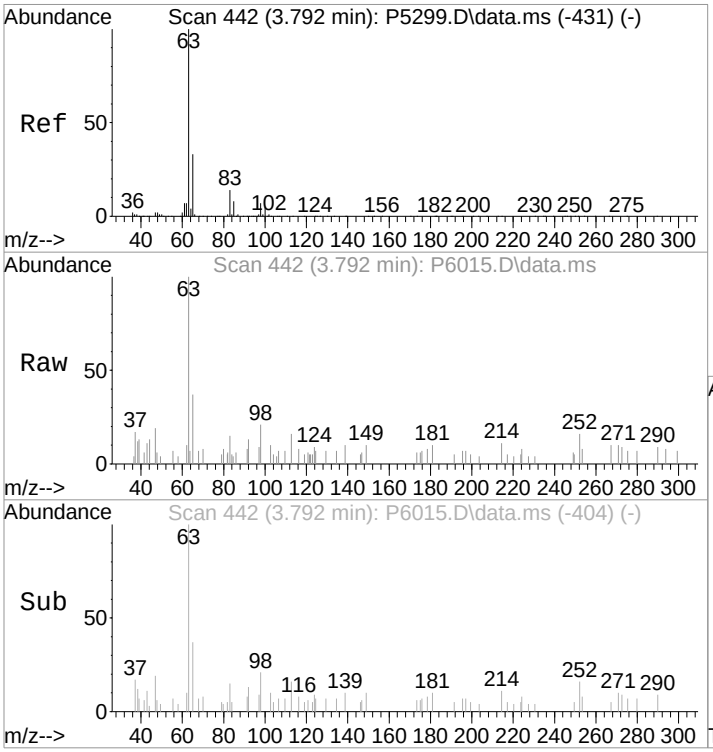


#26
trans-1,2-Dichloroethene
Concen: 0.85 ppb m
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 96 Resp: 5224

Ion	Ratio	Lower	Upper
96	100		
98	49.4	41.0	81.0
61	123.6	112.4	152.4

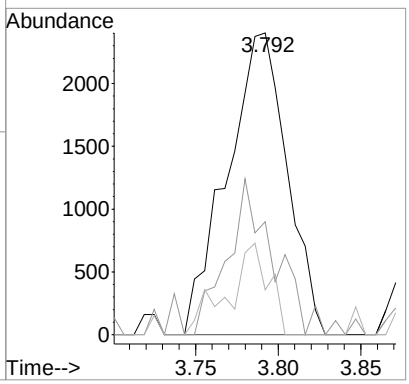


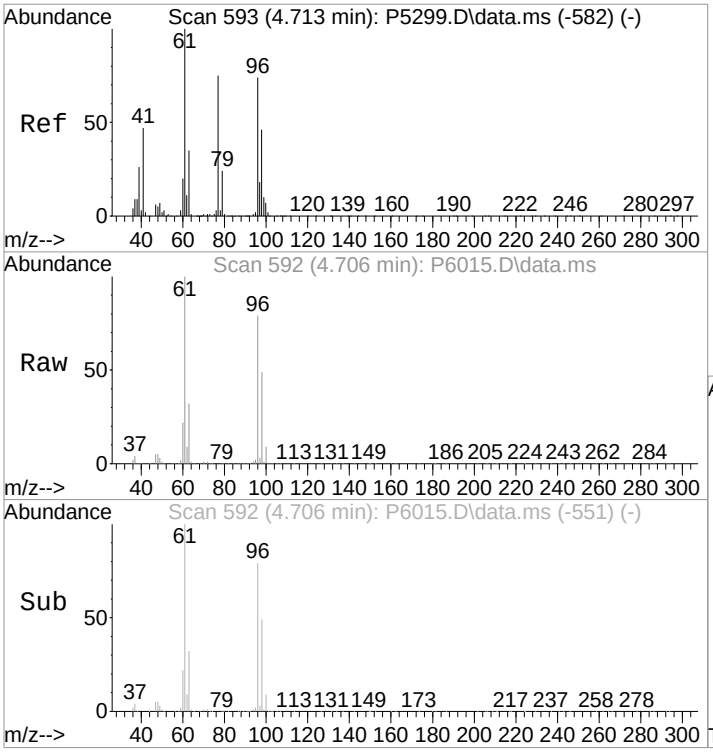


#28
1,1-Diclethane
Concen: 0.60 ppb
RT: 3.792 min Scan# 442
Delta R.T. 0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 63 Resp: 6081

Ion	Ratio	Lower	Upper
63	100		
65	35.2	12.9	52.9
83	13.9	0.0	33.5

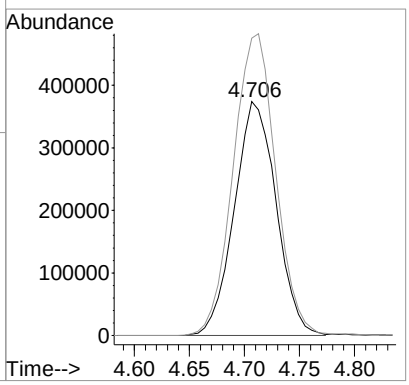


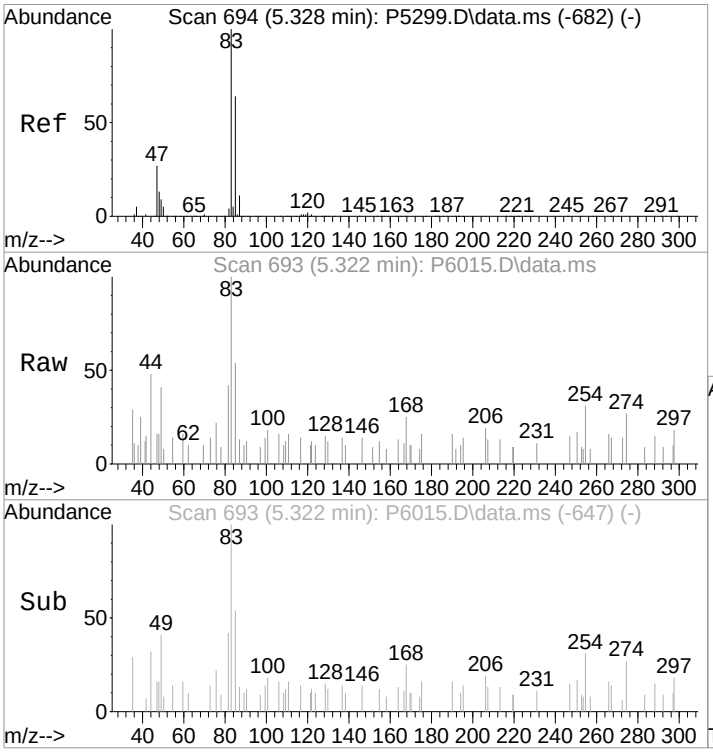


#34
cis-1,2-Dichloroethene
Concen: 159.02 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 96 Resp: 993834

Ion	Ratio	Lower	Upper
96	100		
61	127.0	114.6	154.6

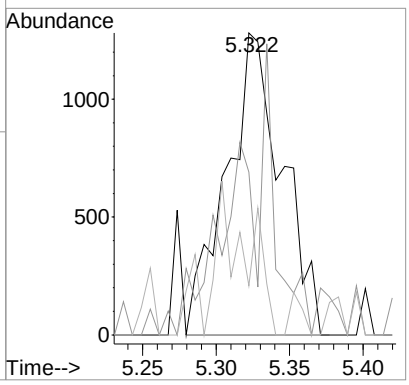


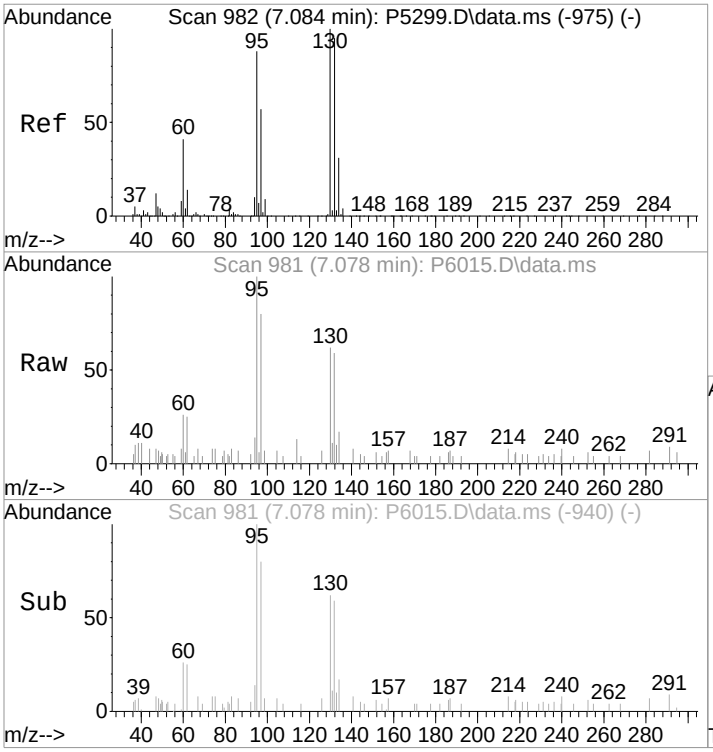


#40
Chloroform
Concen: 0.34 ppb m
RT: 5.322 min Scan# 693
Delta R.T. -0.006 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion: 83 Resp: 3369

Ion	Ratio	Lower	Upper
83	100		
85	53.9	44.1	84.1
47	16.3	7.4	47.4

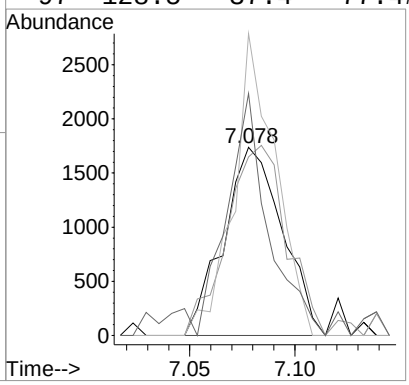




#54
Trichloroethene
Concen: 0.51 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6015.D
Acq: 27 Oct 2016 6:53 pm

Tgt Ion:130 Resp: 3393

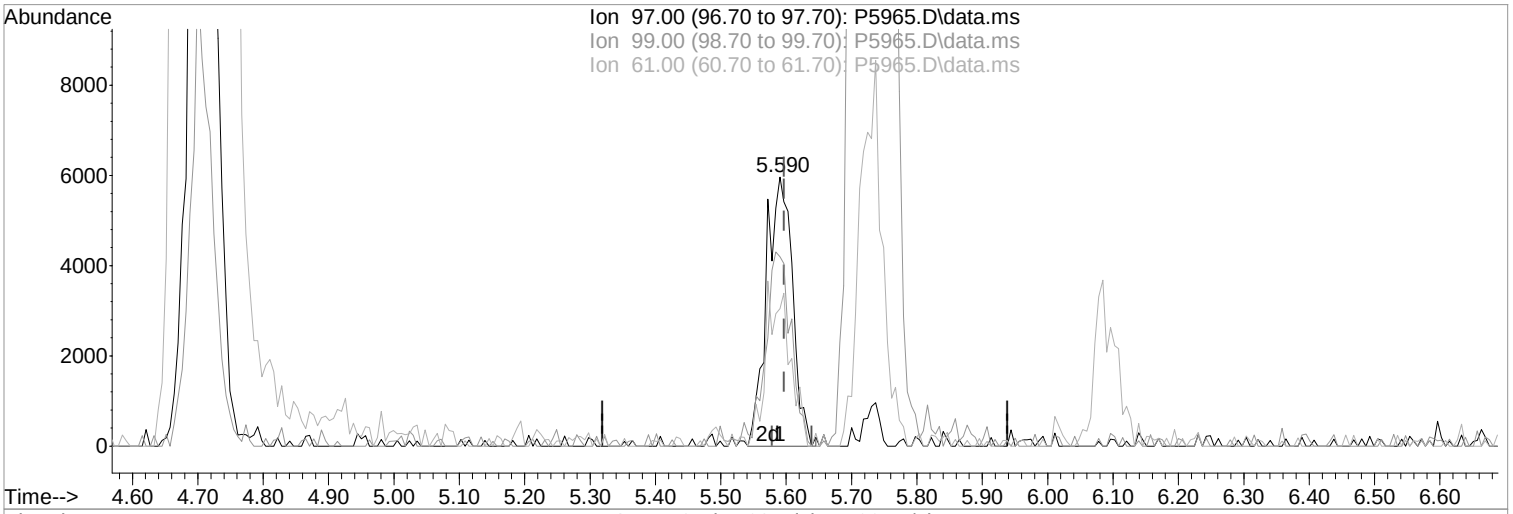
Ion	Ratio	Lower	Upper
130	100		
132	94.9	75.2	115.2
95	160.4	68.1	108.1#
97	128.5	37.4	77.4#

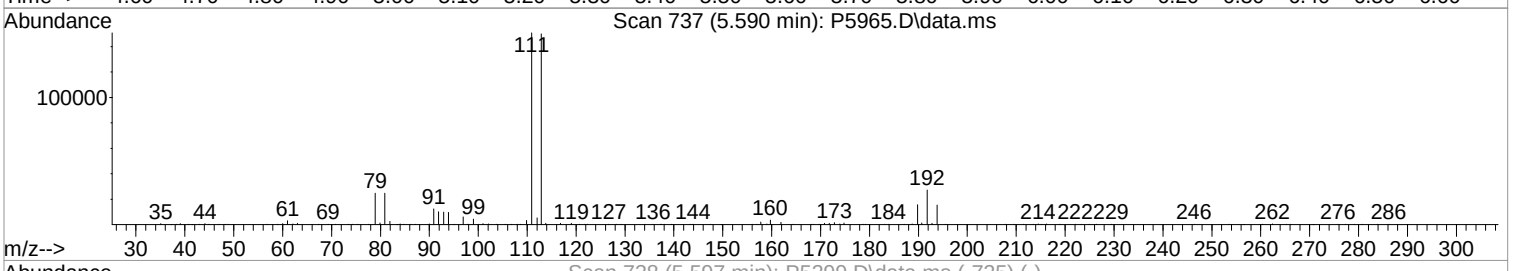


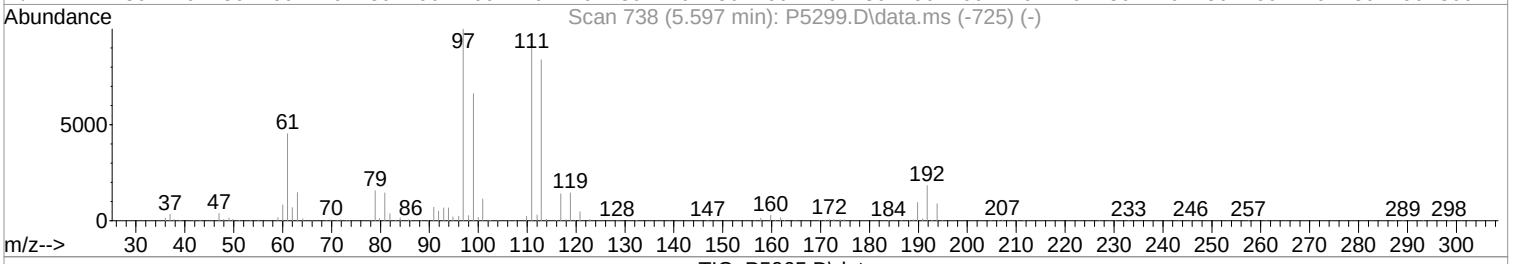
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5965.D
Acq On : 26 Oct 2016 4:24 pm
Operator : K.Ruest
Sample : R1611185-010|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 26 16:42:18 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5965.D\data.ms

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

5.590min (-0.006) 1.76 ppb m

response 16463

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	70.37
61.00	45.30	51.07
0.00	0.00	0.00

Manual Integration:

After

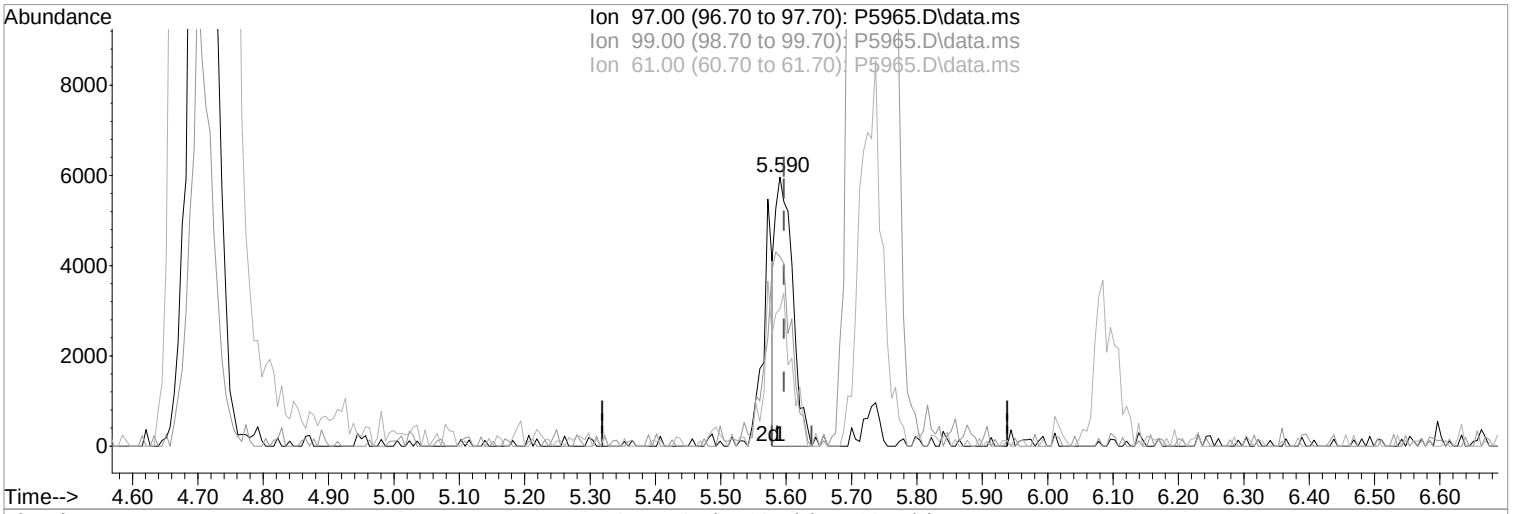
Split Peak

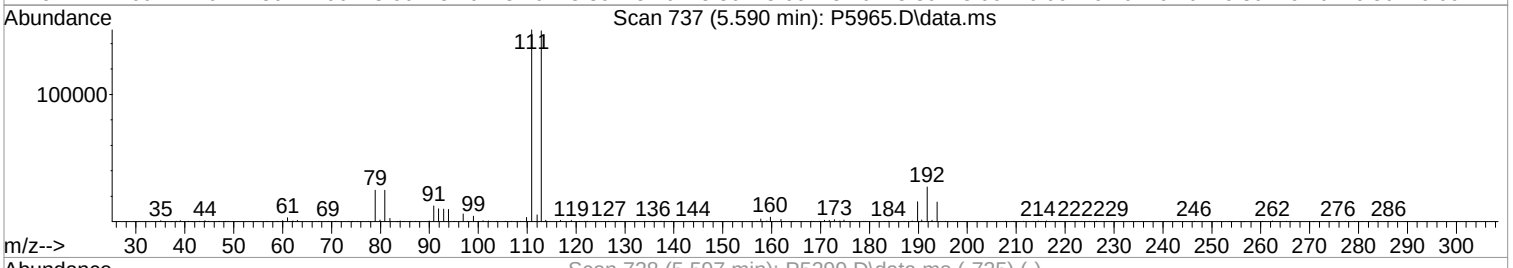
10/27/16

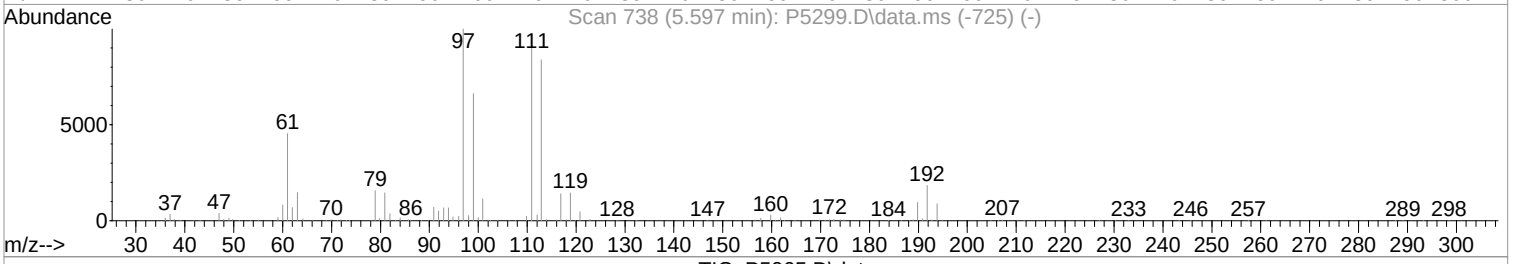
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5965.D
Acq On : 26 Oct 2016 4:24 pm
Operator : K.Ruest
Sample : R1611185-010|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 26 16:42:18 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5965.D\data.ms

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

5.590min (-0.006) 1.18 ppb

response 11035

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	70.37
61.00	45.30	51.07
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5965.D
Acq On : 26 Oct 2016 4:24 pm
Operator : K.Ruest
Sample : R1611185-010|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

repeat 5.0

Quant Time: Oct 27 10:46:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	804040	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1312073	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1178425	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	621092	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	383412	54.75	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.50%				
48) surr1,1,2-dichloroetha...	6.090	65	420473	52.86	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.72%				
65) SURR3,Toluene-d8	8.529	98	1579398	55.04	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.08%				
70) SURR2,BFB	11.047	95	579712	51.78	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.56%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	245870	38.65	ppb		98
7) Freon 21	1.920	67	17925	2.13	ppb		84
8) Trichlorofluoromethane	1.975	101	4102	0.56	ppb		96
10) Freon 123a	2.231	67	7202	1.41	ppb		100
13) 1,1-Diclethene	2.426	96	2979	0.53	ppb	#	87
14) Freon 113	2.432	101	18835	3.18	ppb	#	75
15) Acetone	2.493	43	1778	1.36	ppb		85
16) 2-Propanol	2.640	45	4414	15.78	ppb	#	31
26) trans-1,2-Dichloroethene	3.237	96	20936	3.33	ppb		90
28) 1,1-Diclethane	3.774	63	16412	1.57	ppb		90
34) cis-1,2-Dichloroethene	4.706	96	1440974	224.59	ppb		96
40) Chloroform	5.328	83	3137	0.31	ppb	#	70
41) 1,1,1-Trichloroethane	5.590	97	16463m	1.76	ppb		
54) Trichloroethene	7.078	130	18687	2.70	ppb		95

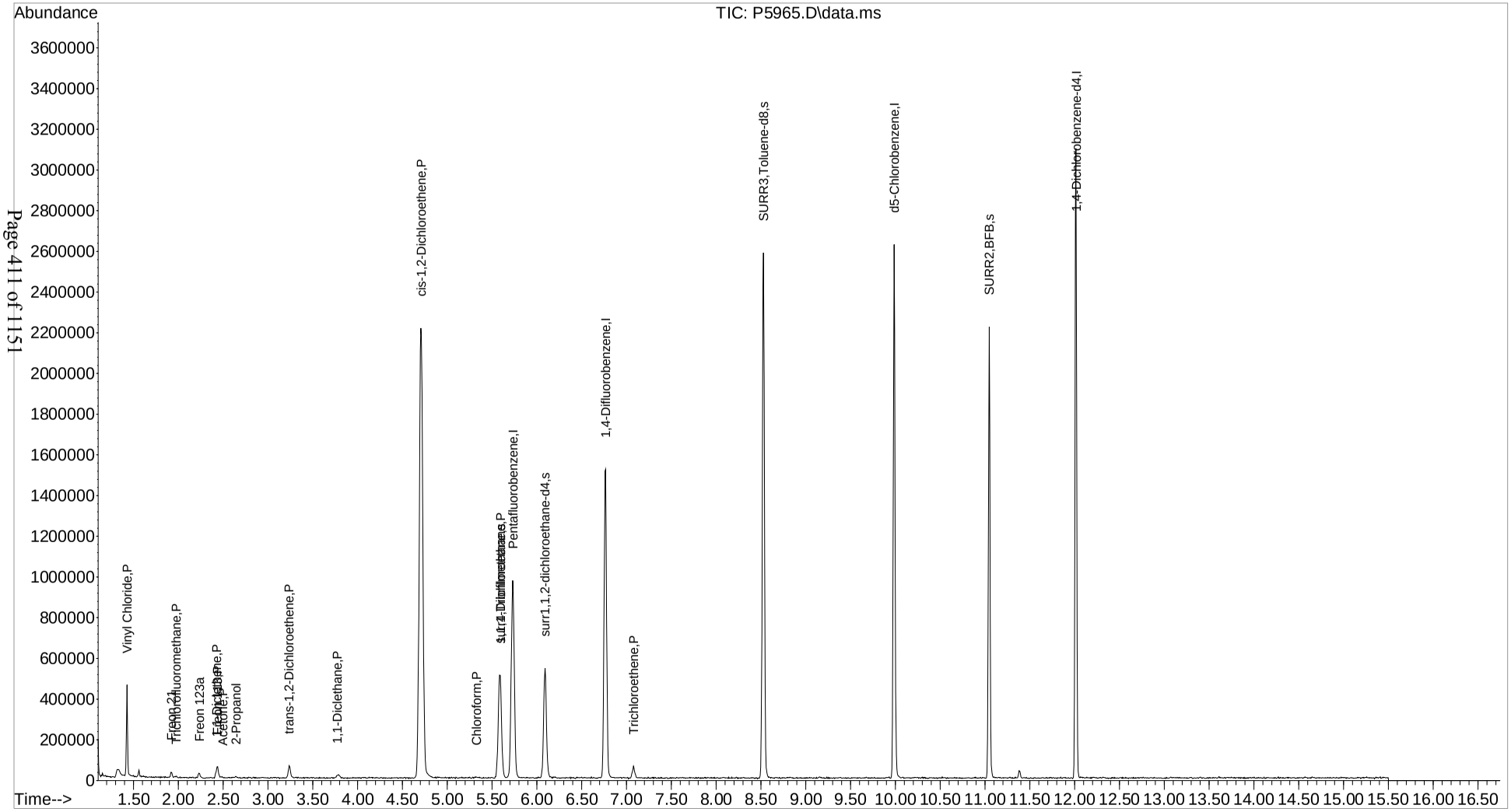
E-Over Calibration

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

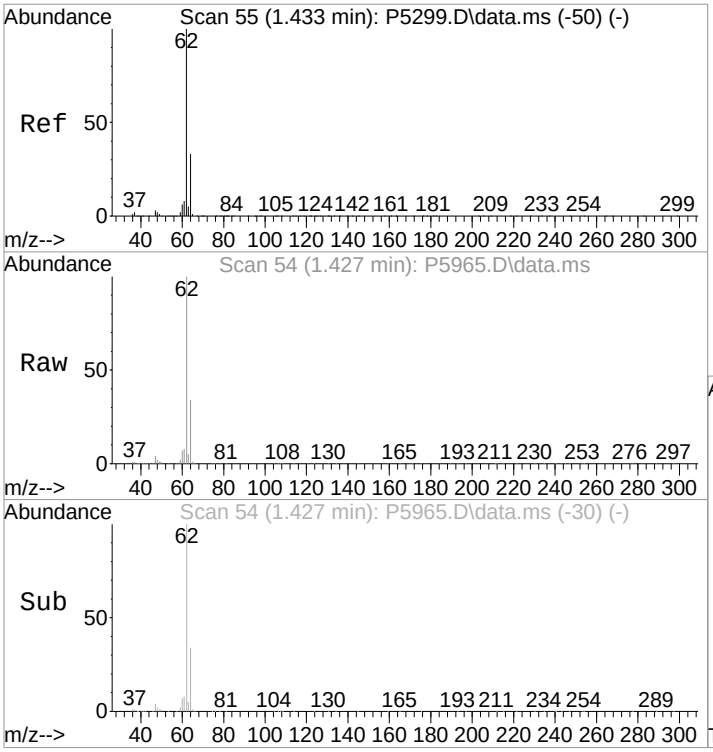
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5965.D
Acq On : 26 Oct 2016 4:24 pm
Operator : K.Ruest
Sample : R1611185-010|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 10:46:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



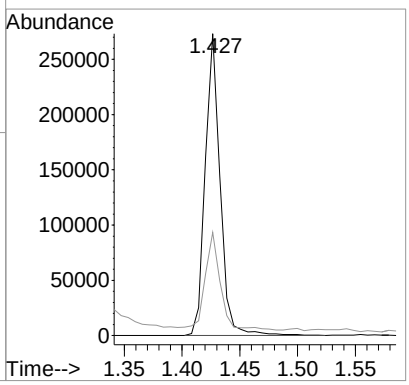
1st 10/27/16
2nd 10/27/16

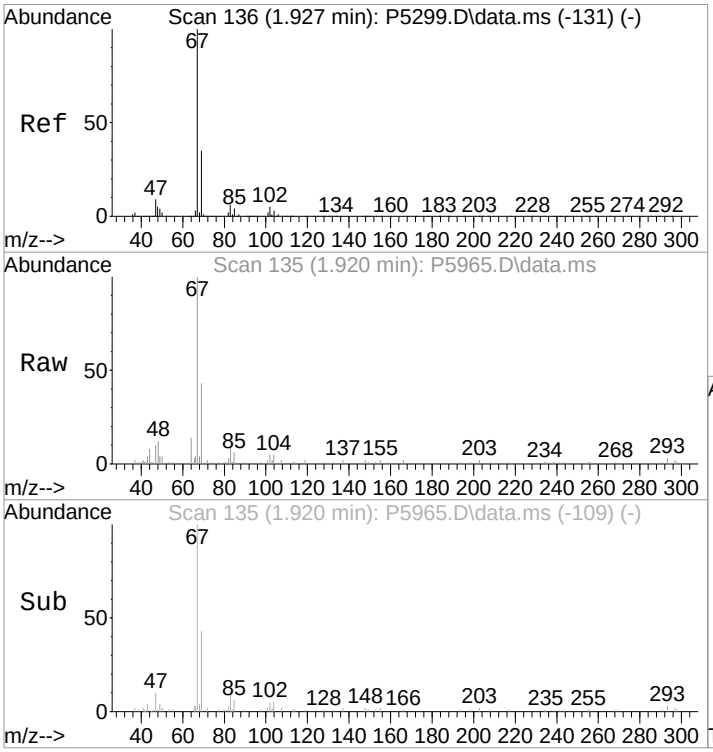


#4
Vinyl Chloride
Concen: 38.65 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 62 Resp: 245870

Ion	Ratio	Lower	Upper
62	100		
64	34.1	13.1	53.1

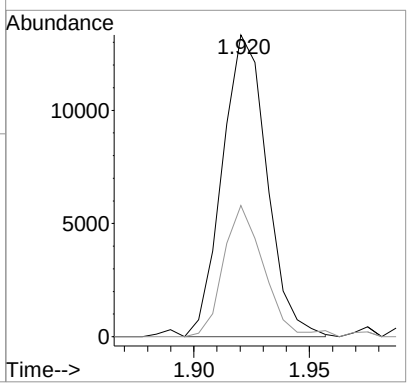


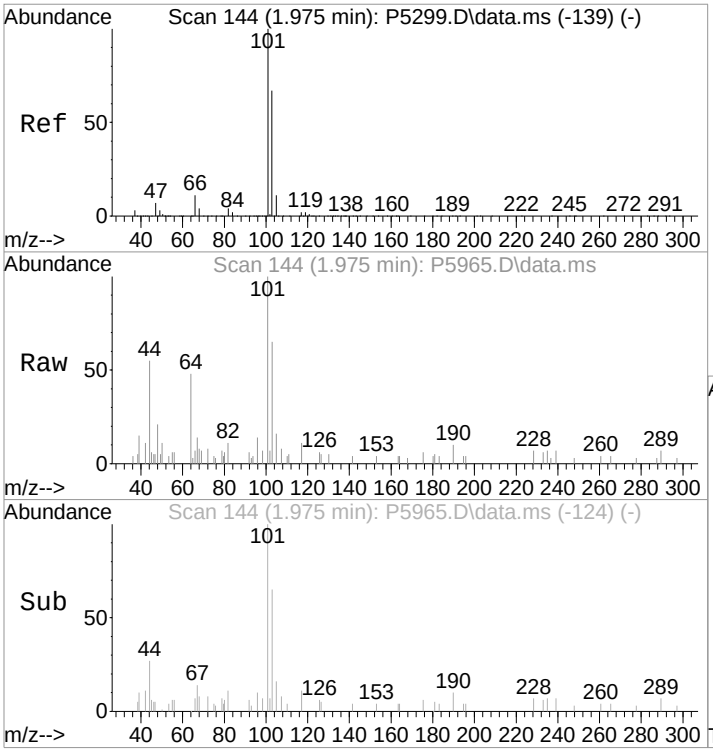


#7
Freon 21
Concen: 2.13 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 67 Resp: 17925

Ion	Ratio	Lower	Upper
67	100		
69	43.5	14.4	54.4

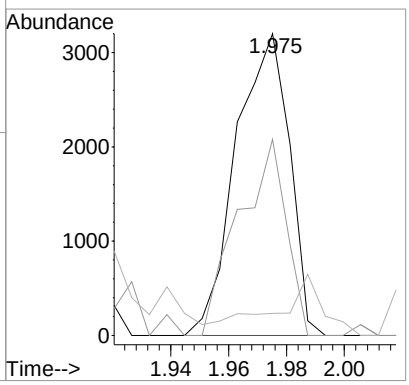


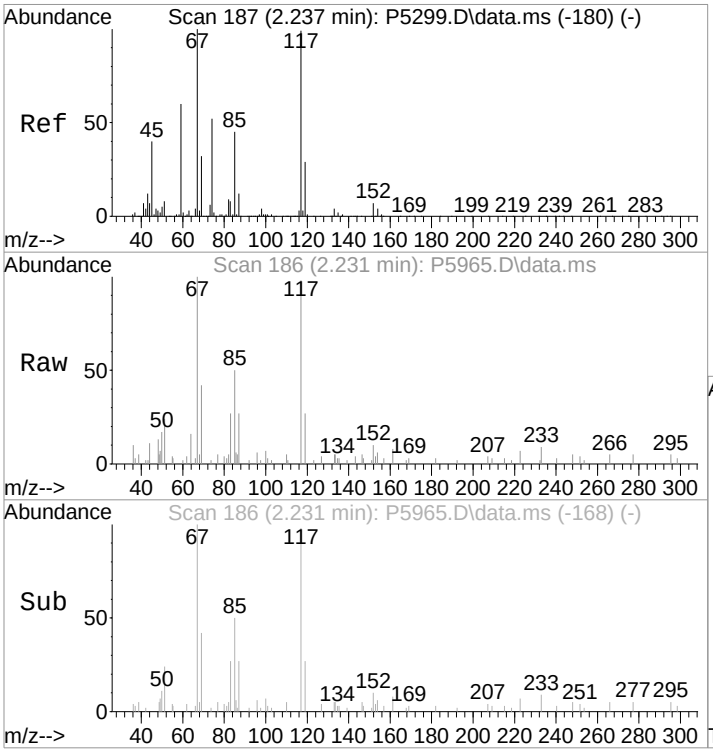


#8
Trichlorofluoromethane
Concen: 0.56 ppb
RT: 1.975 min Scan# 144
Delta R.T. -0.000 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion:101 Resp: 4102

Ion	Ratio	Lower	Upper
101	100		
103	65.0	47.3	87.3
66	7.3	0.0	31.5

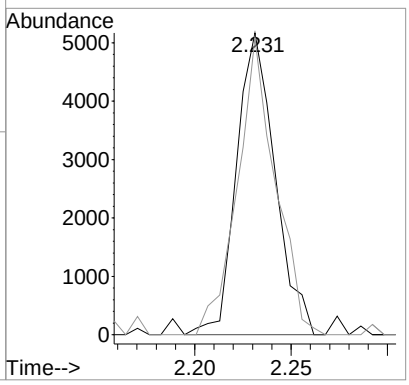


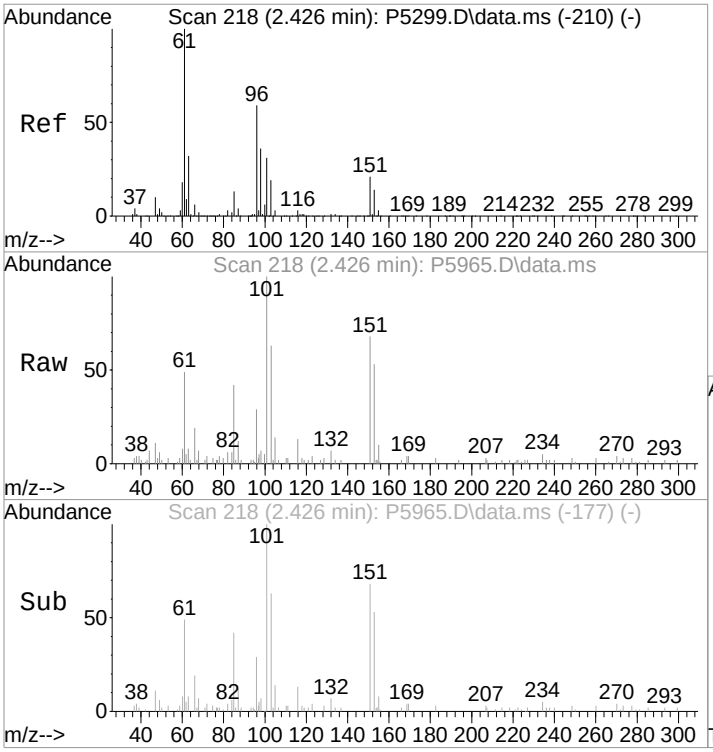


#10
Freon 123a
Concen: 1.41 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 67 Resp: 7202

Ion	Ratio	Lower	Upper
67	100		
117	98.4	78.8	118.8

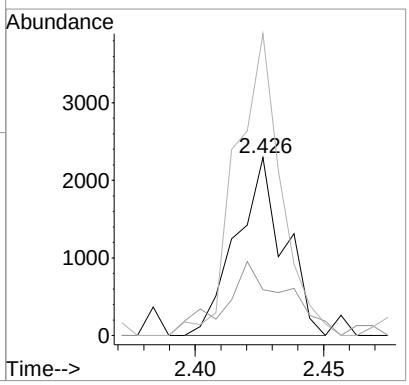


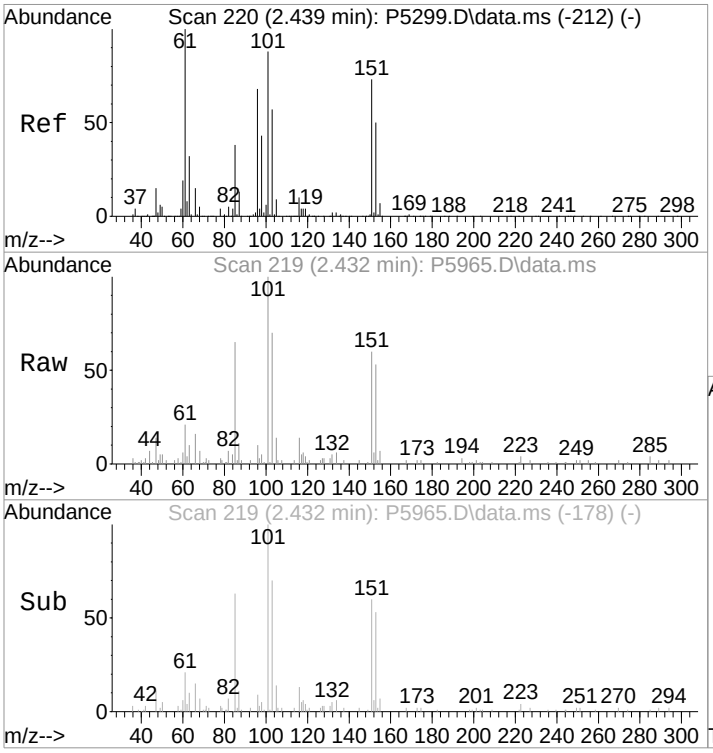


#13
1,1-Diclethene
Concen: 0.53 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 96 Resp: 2979

Ion	Ratio	Lower	Upper
96	100		
98	25.7	41.8	81.8#
61	169.6	150.1	190.1

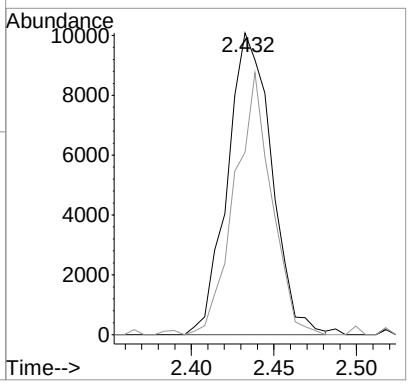


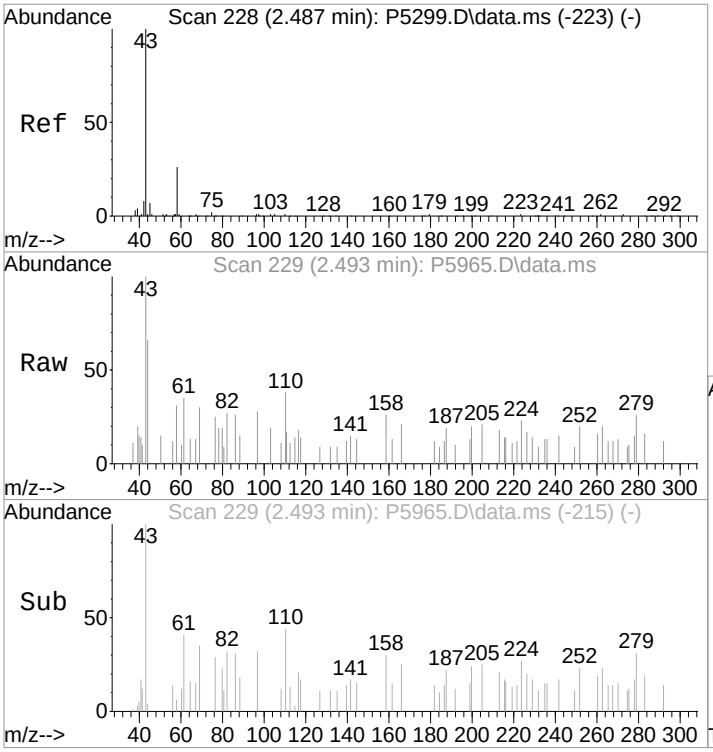


#14
Freon 113
Concen: 3.18 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion:101 Resp: 18835

Ion	Ratio	Lower	Upper
101	100		
151	60.5	62.6	102.6#

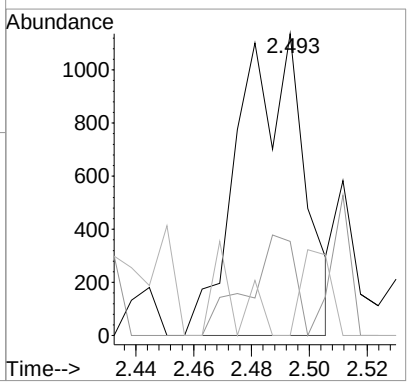


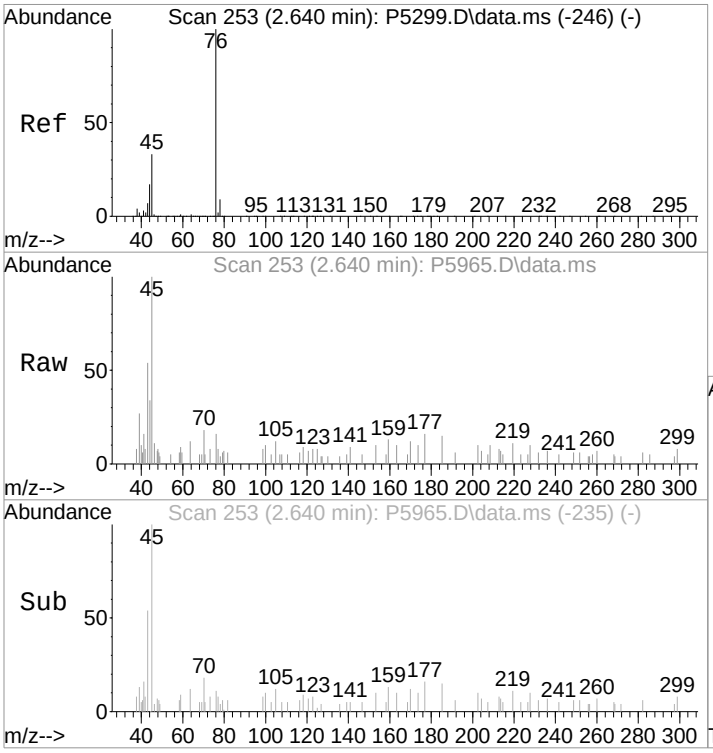


#15
Acetone
Concen: 1.36 ppb
RT: 2.493 min Scan# 229
Delta R.T. 0.012 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 43 Resp: 1778

Ion	Ratio	Lower	Upper
43	100		
58	31.1	5.3	45.3
42	0.0	0.0	28.7

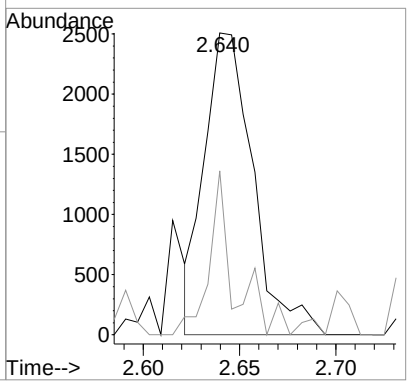


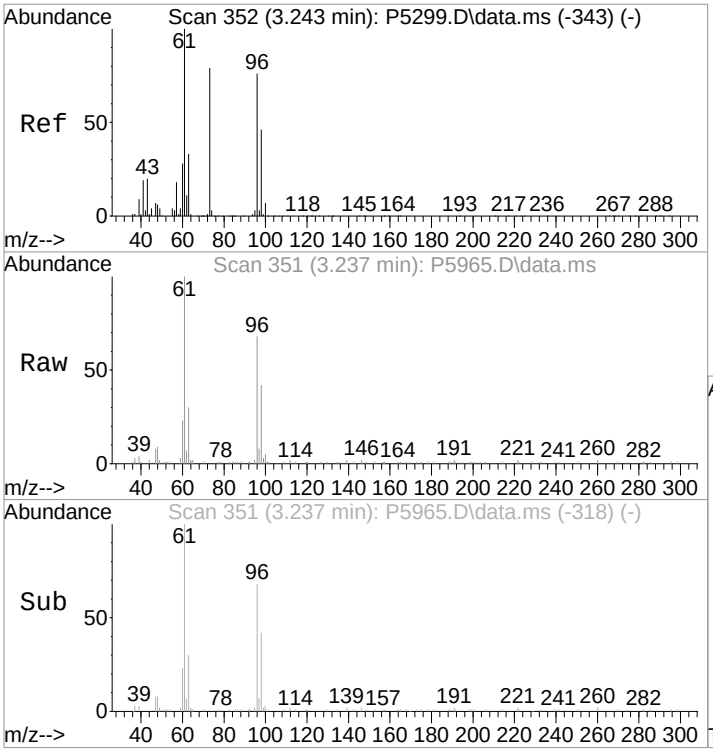


#16
2-Propanol
Concen: 15.78 ppb
RT: 2.640 min Scan# 253
Delta R.T. -0.000 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 45 Resp: 4414

Ion	Ratio	Lower	Upper
45	100		
43	54.3	1.6	41.6#

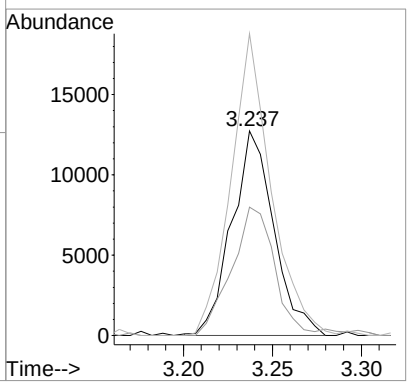


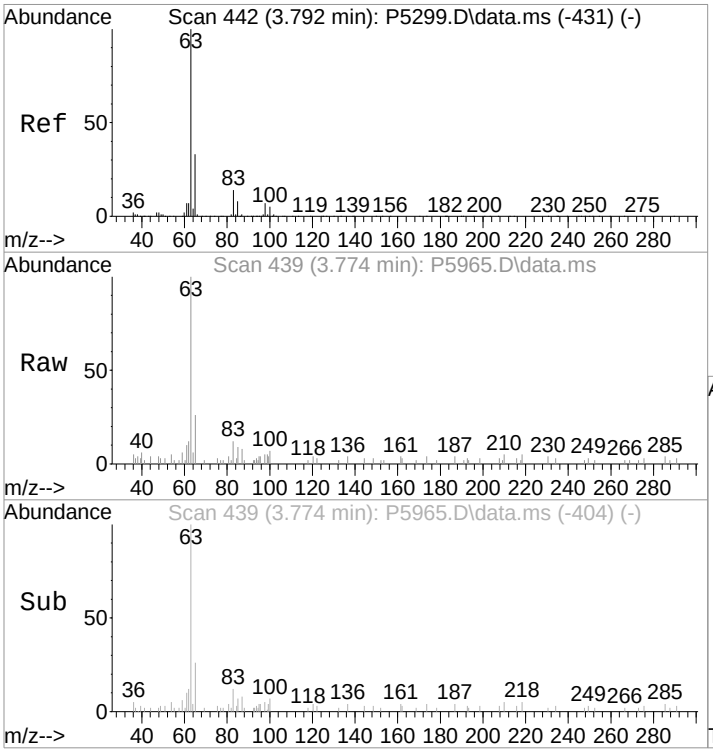


#26
trans-1,2-Dichloroethene
Concen: 3.33 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 96 Resp: 20936

Ion	Ratio	Lower	Upper
96	100		
98	62.7	41.0	81.0
61	147.6	112.4	152.4

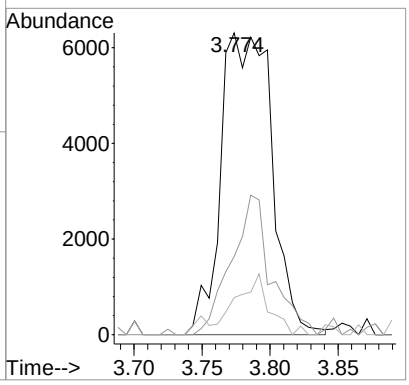


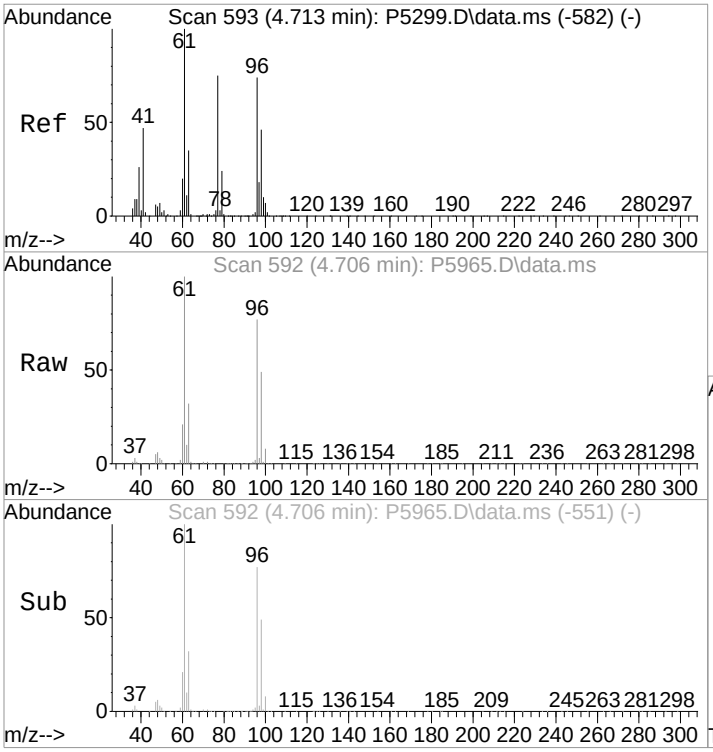


#28
1,1-Diclethane
Concen: 1.57 ppb
RT: 3.774 min Scan# 439
Delta R.T. -0.012 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 63 Resp: 16412

Ion	Ratio	Lower	Upper
63	100		
65	25.9	12.9	52.9
83	12.3	0.0	33.5

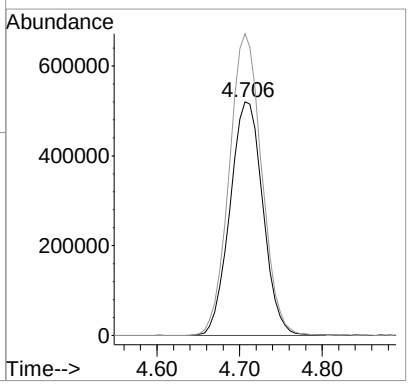


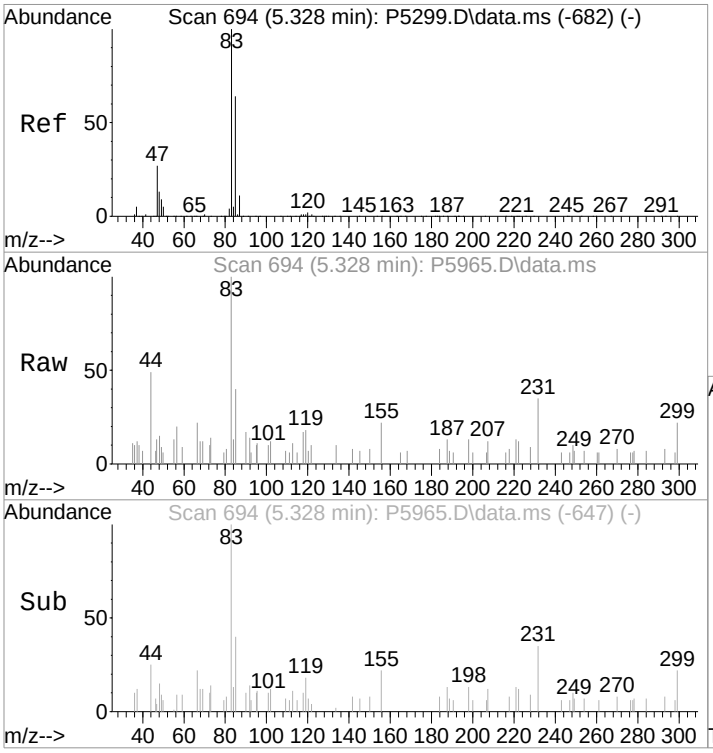


#34
cis-1,2-Dichloroethene
Concen: 224.59 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 96 Resp: 1440974

Ion	Ratio	Lower	Upper
96	100		
61	129.3	114.6	154.6

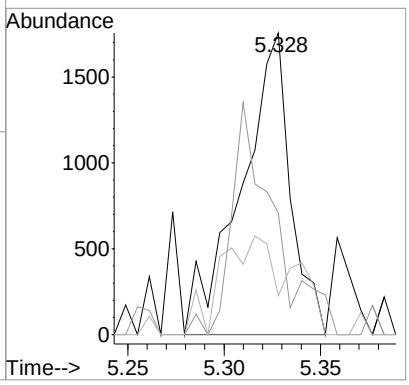


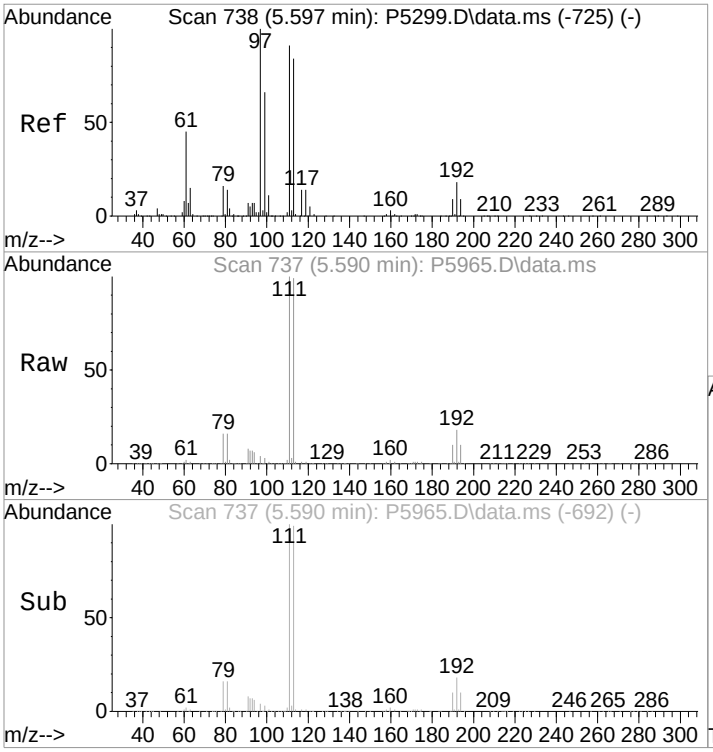


#40
Chloroform
Concen: 0.31 ppb
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 83 Resp: 3137

Ion	Ratio	Lower	Upper
83	100		
85	40.4	44.1	84.1#
47	12.9	7.4	47.4

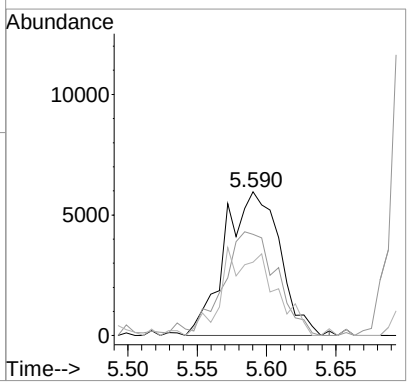


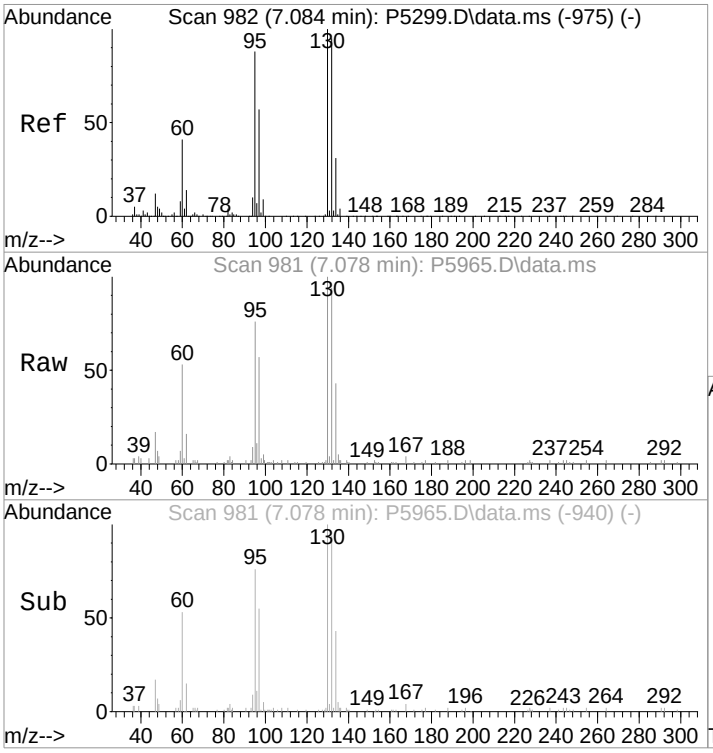


#41
1,1,1-Trichloroethane
Concen: 1.76 ppb m
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion: 97 Resp: 16463

Ion	Ratio	Lower	Upper
97	100		
99	70.4	46.2	86.2
61	51.1	25.3	65.3

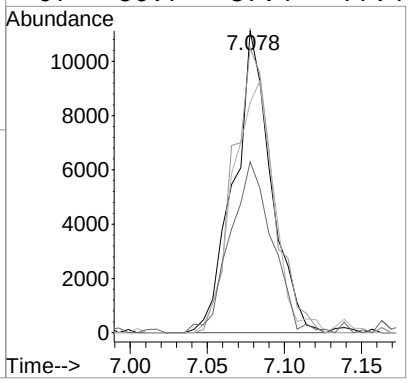




#54
Trichloroethene
Concen: 2.70 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5965.D
Acq: 26 Oct 2016 4:24 pm

Tgt Ion:130 Resp: 18687

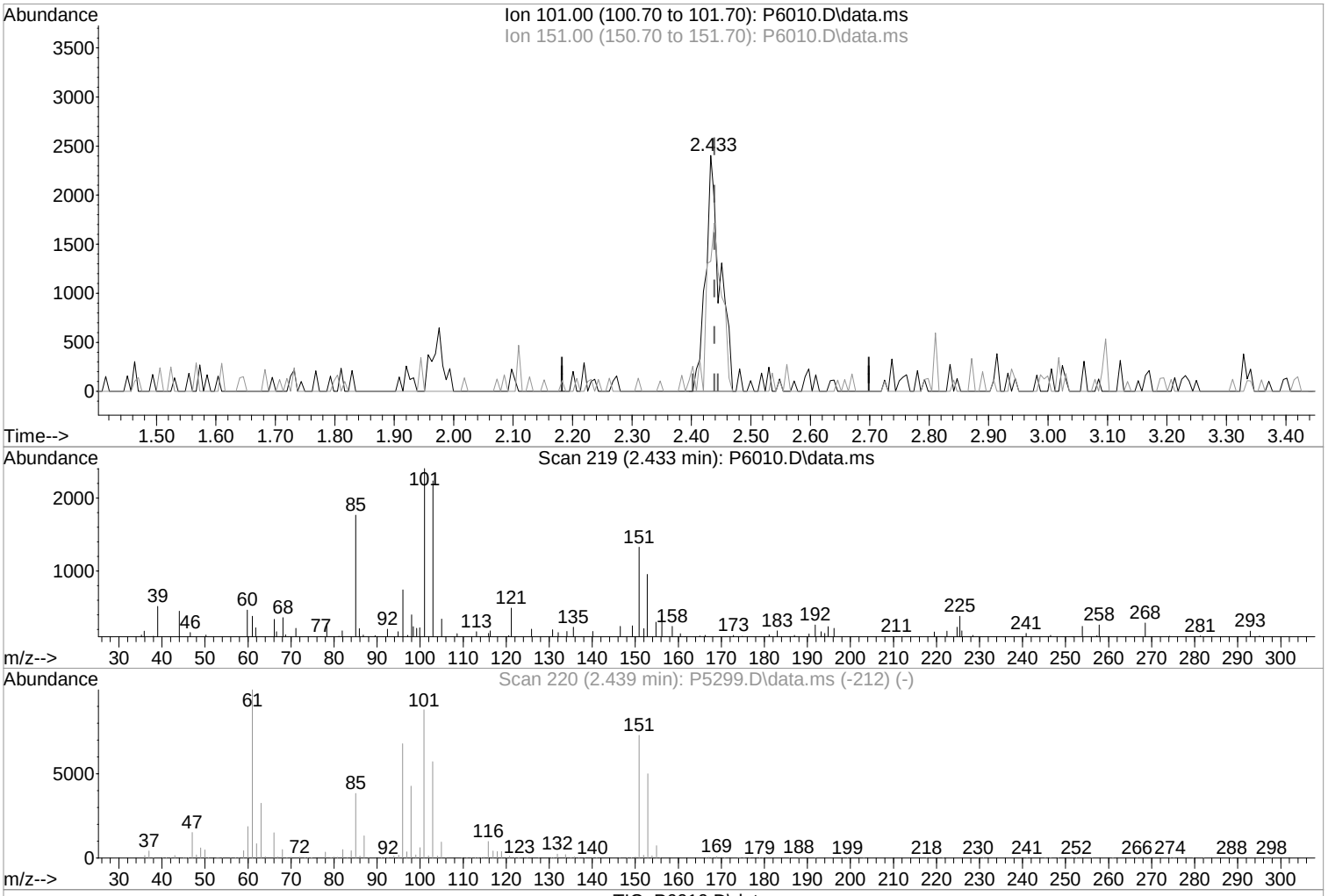
Ion	Ratio	Lower	Upper
130	100		
132	94.4	75.2	115.2
95	76.2	68.1	108.1
97	56.7	37.4	77.4



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6010.D\data.ms

(14) Freon 113 (P)

2.433min (-0.006) 0.69 ppb m

response 3998

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	55.18#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

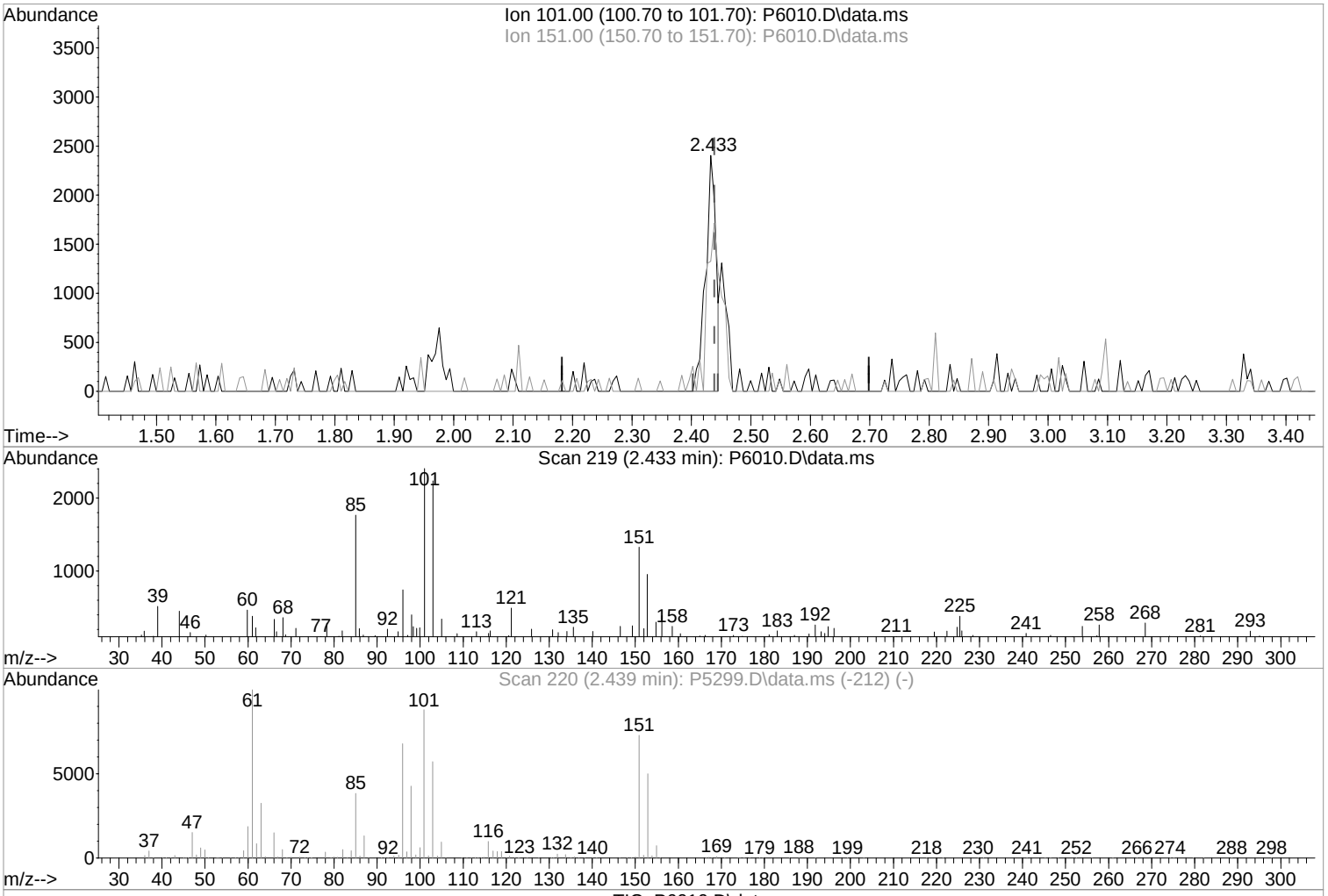
Split Peak

10/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6010.D\data.ms

(14) Freon 113 (P)

2.433min (-0.006) 0.51 ppb

response 2953

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	55.18#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

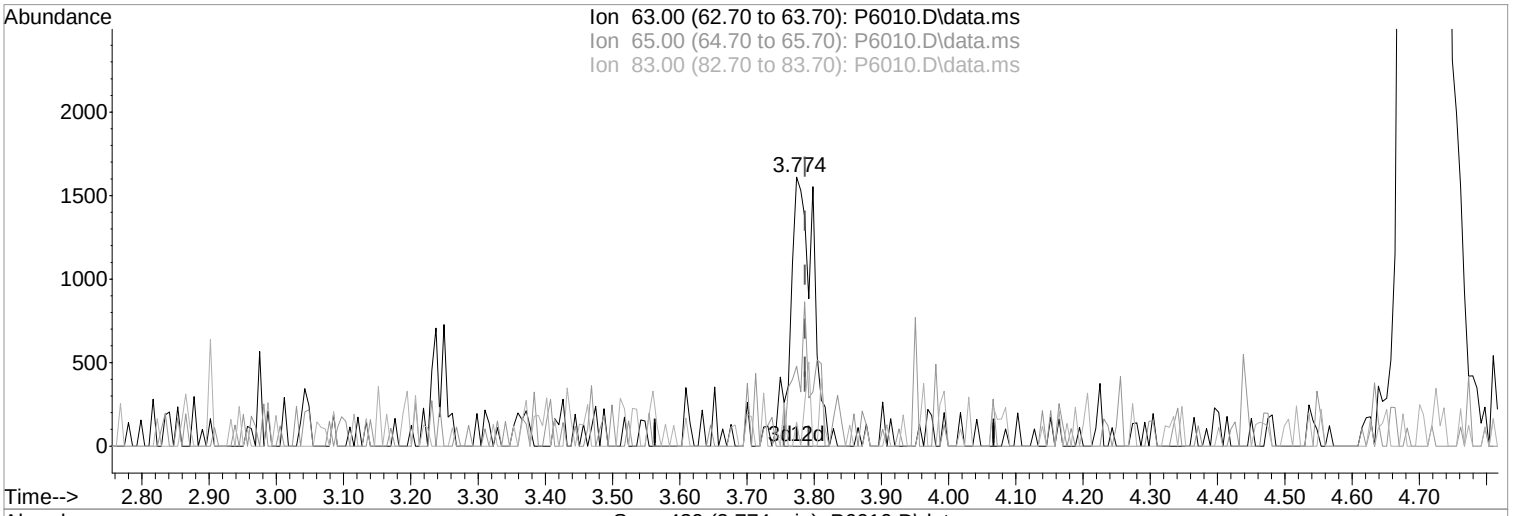
Before

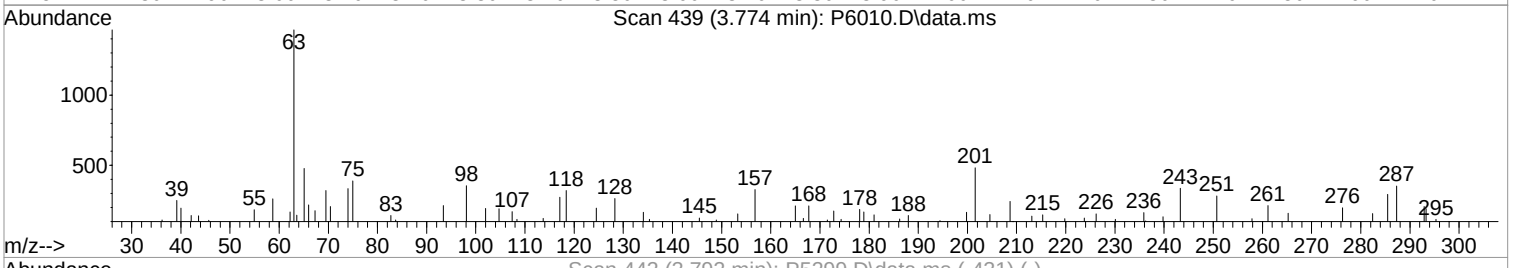
10/27/16

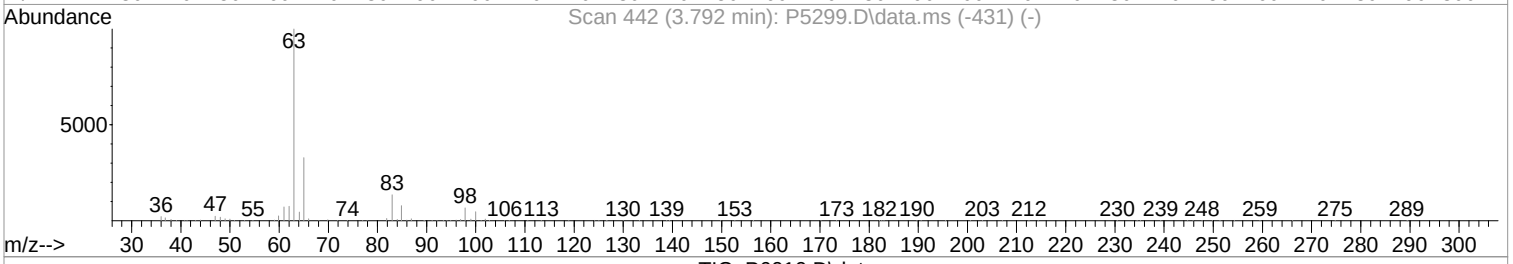
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

(28) 1,1-Diclethane (P)

3.774min (-0.012) 0.34 ppb m

response 3462

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	32.61
83.00	13.50	9.69
0.00	0.00	0.00

Manual Integration:

After

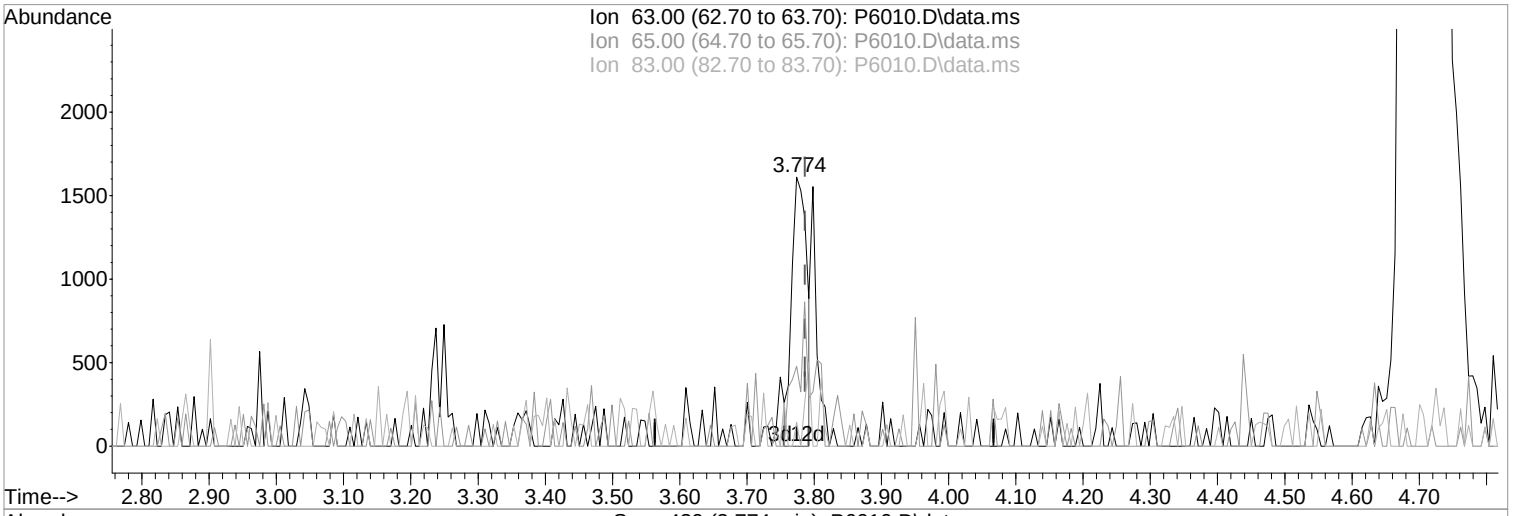
Split Peak

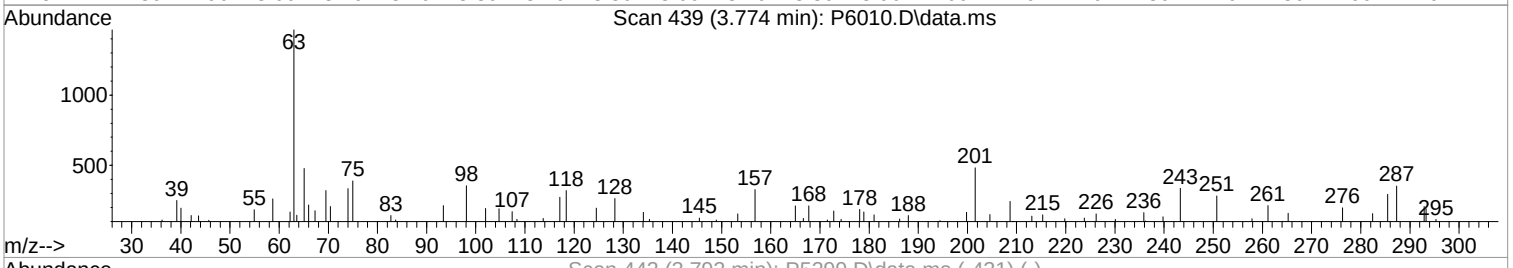
10/27/16

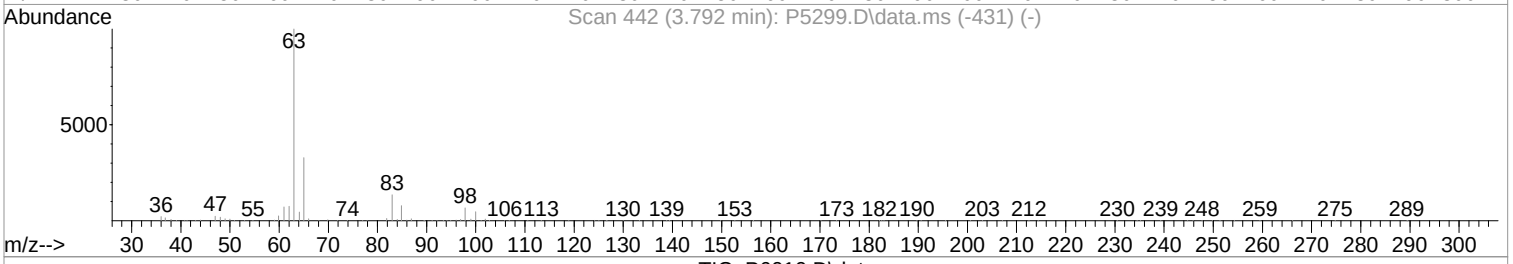
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

(28) 1,1-Diclethane (P)

3.774min (-0.012) 0.24 ppb

response 2508

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	29.67
83.00	13.50	15.70
0.00	0.00	0.00

Manual Integration:

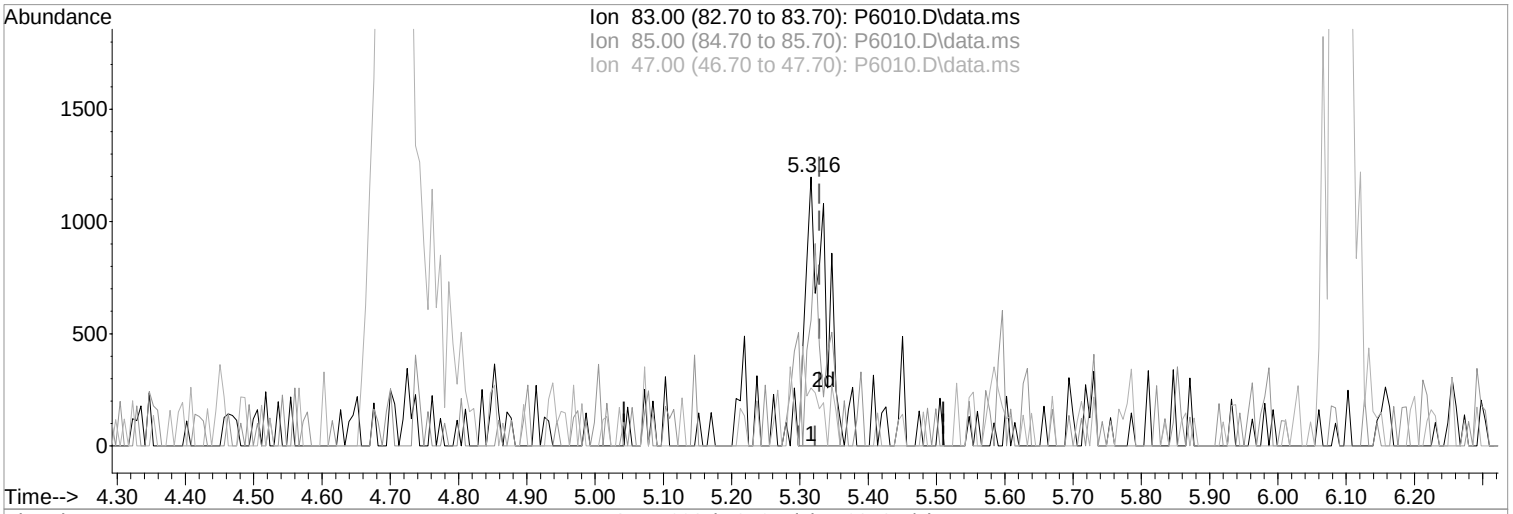
Before

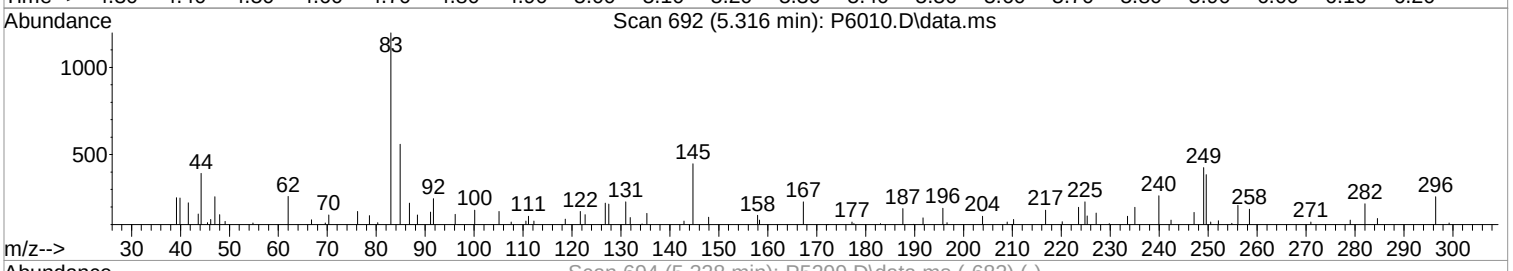
10/27/16

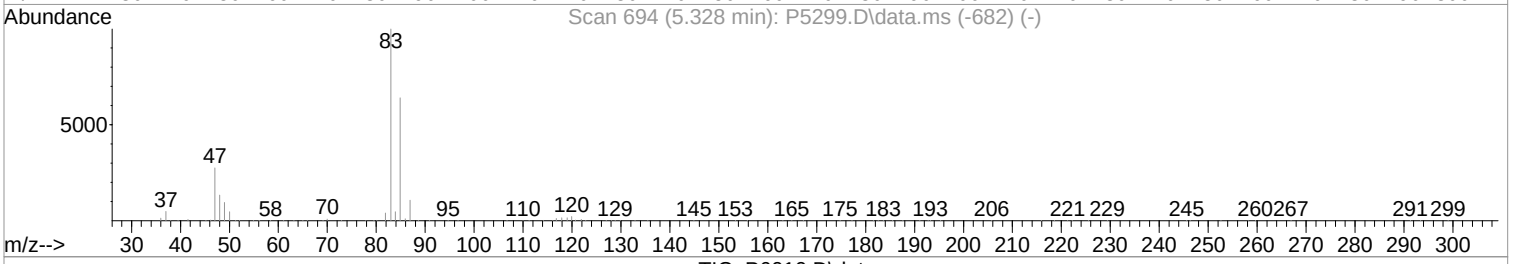
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.24 ppb m

response 2373

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	46.74
47.00	27.40	21.54
0.00	0.00	0.00

Manual Integration:

After

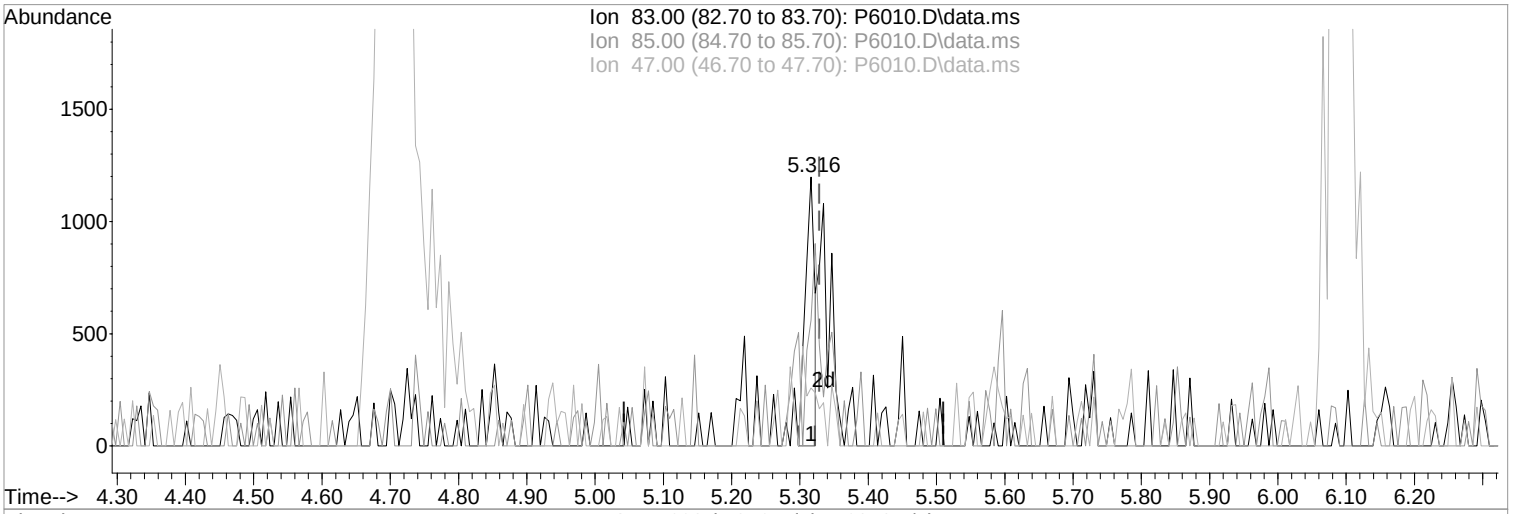
Split Peak

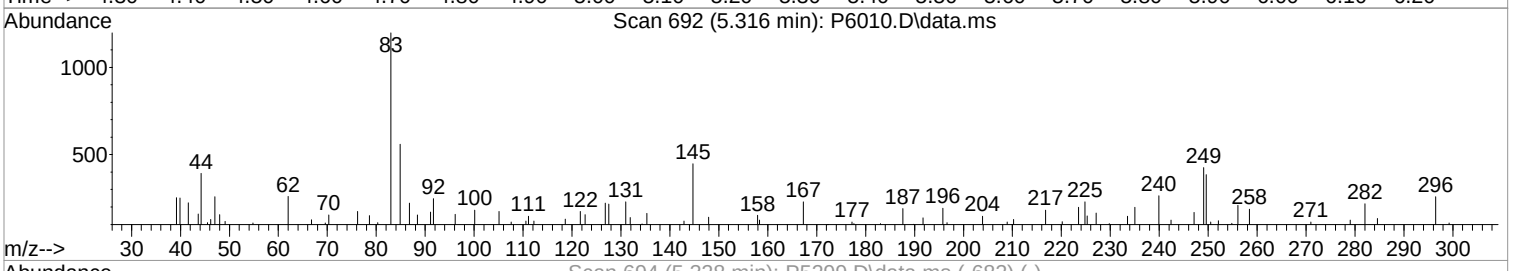
10/27/16

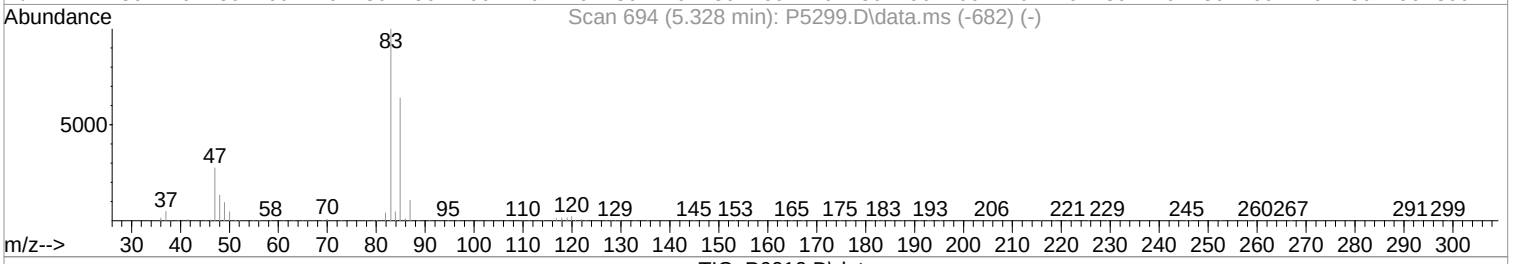
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.12 ppb

response 1147

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	46.74
47.00	27.40	21.54
0.00	0.00	0.00

Manual Integration:

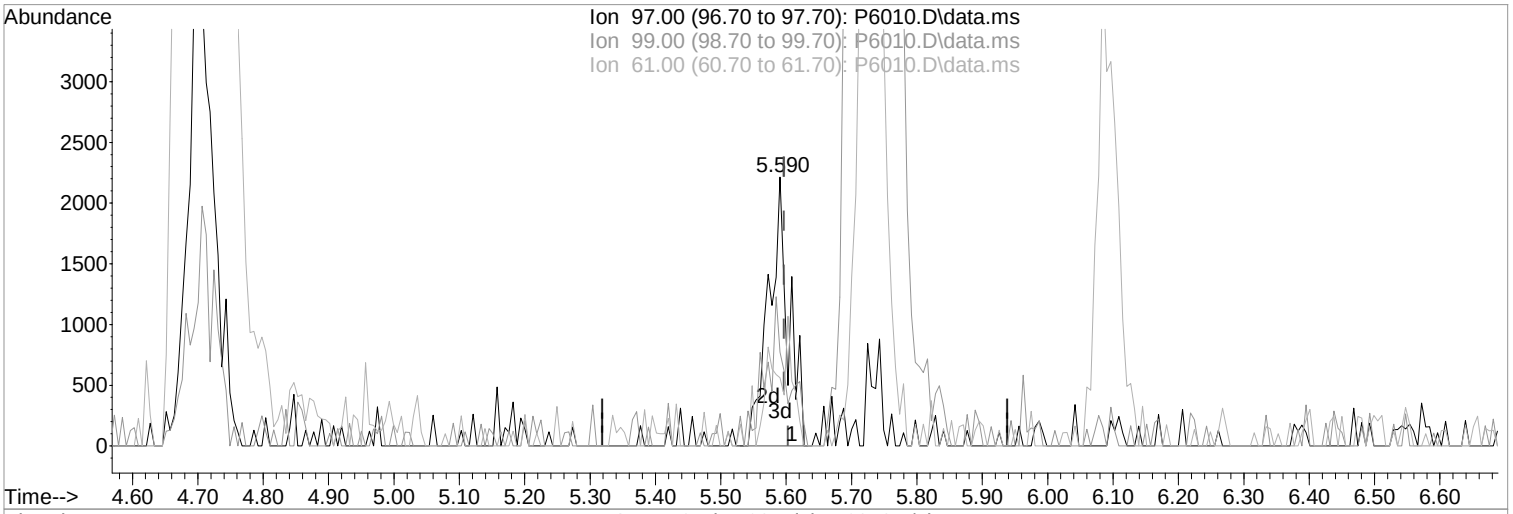
Before

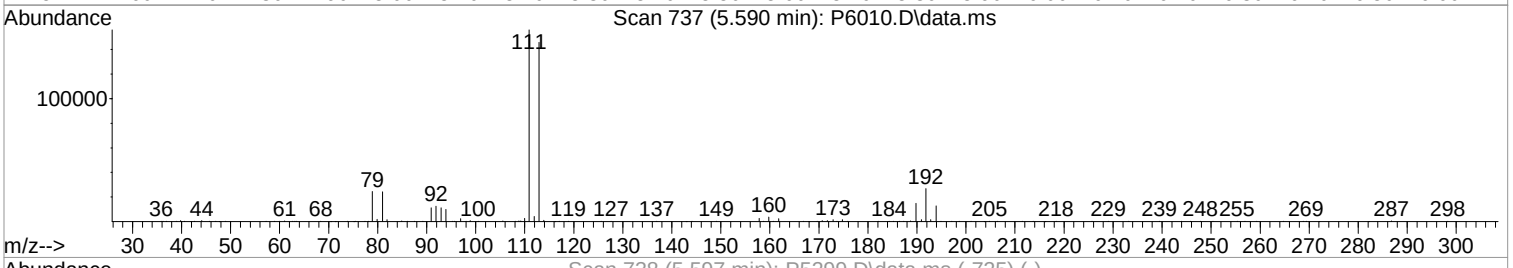
10/27/16

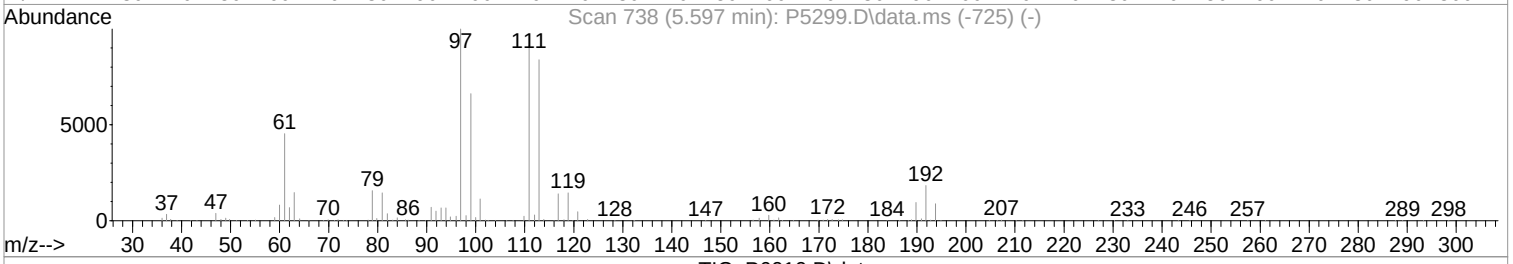
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

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

5.590min (-0.006) 0.51 ppb m

response 4672

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	34.85#
61.00	45.30	25.42
0.00	0.00	0.00

Manual Integration:

After

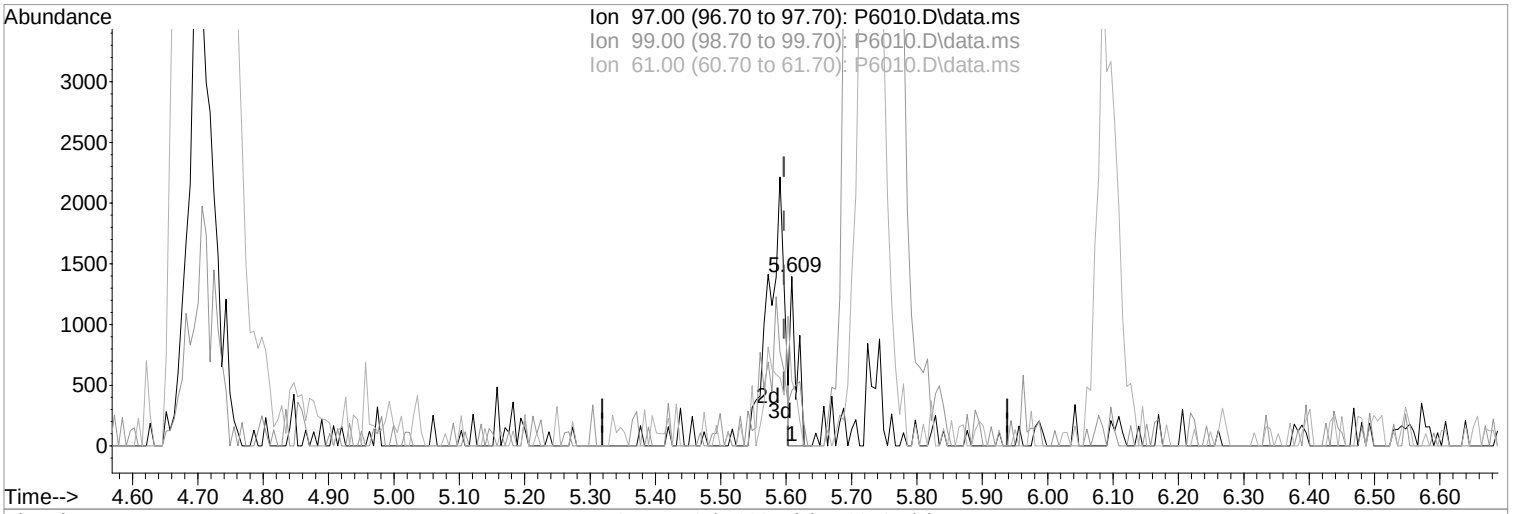
Split Peak

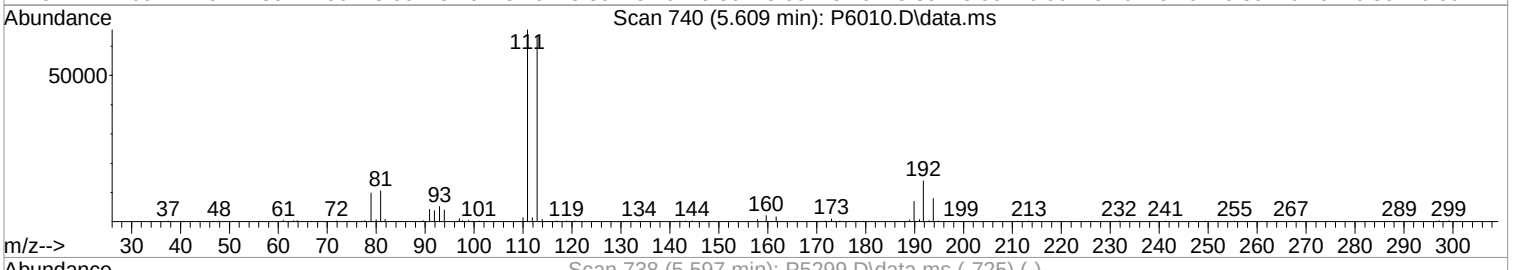
10/27/16

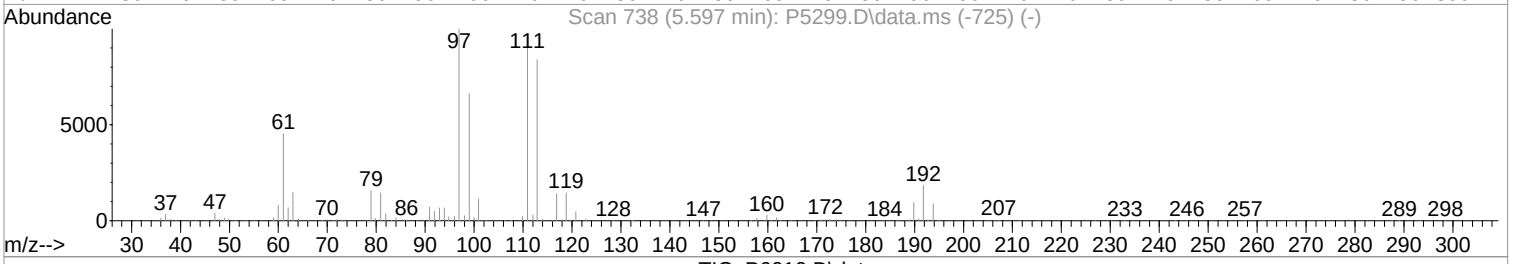
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

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

5.609min (+0.012) 0.11 ppb

response 983

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	47.28
61.00	45.30	38.25
0.00	0.00	0.00

Manual Integration:

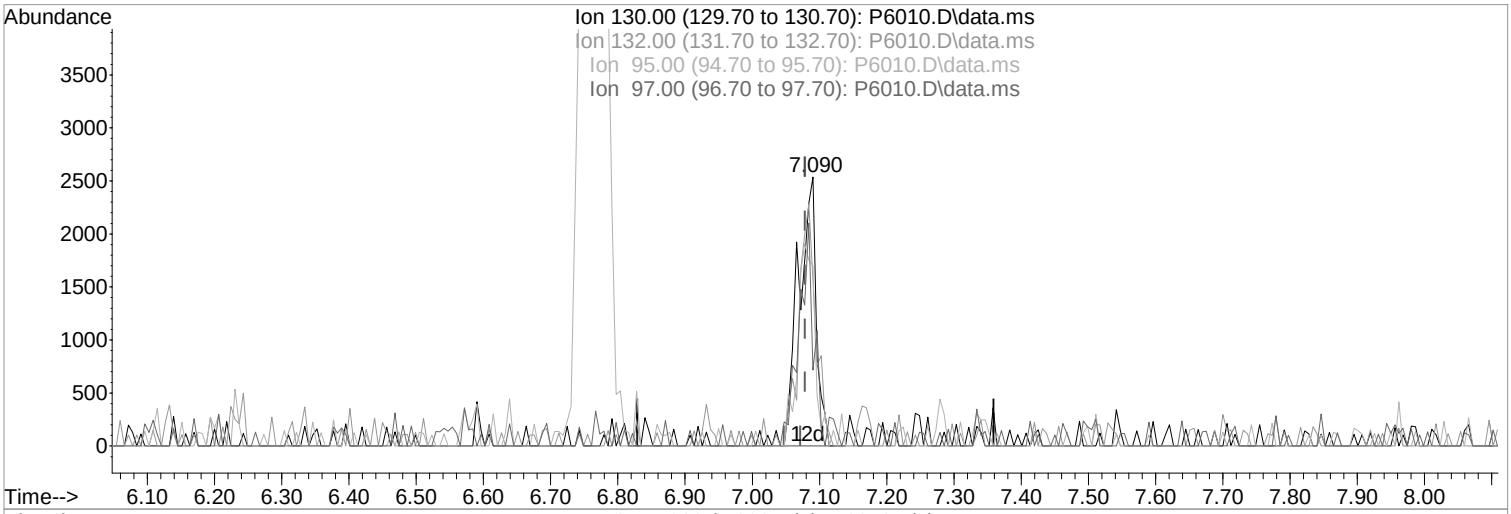
Before

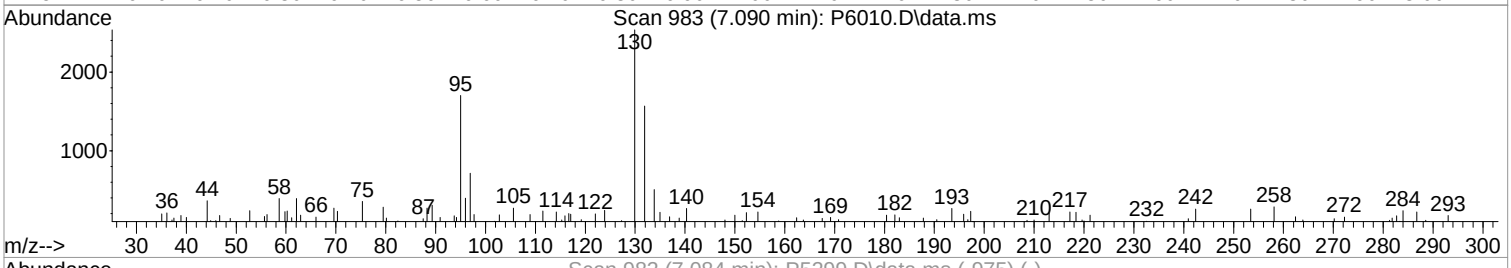
10/27/16

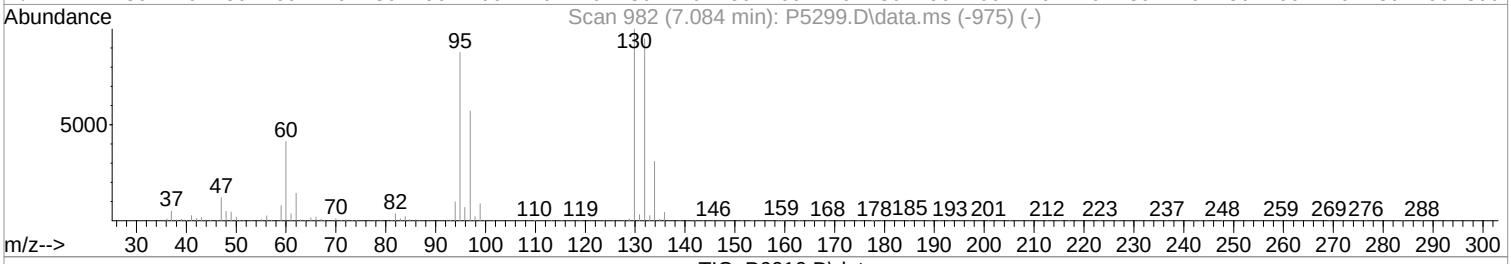
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

(54) Trichloroethene (P)

7.090min (+0.012) 0.70 ppb m

response 4621

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	61.81#
95.00	88.10	67.05#
97.00	57.40	28.18#

Manual Integration:

After

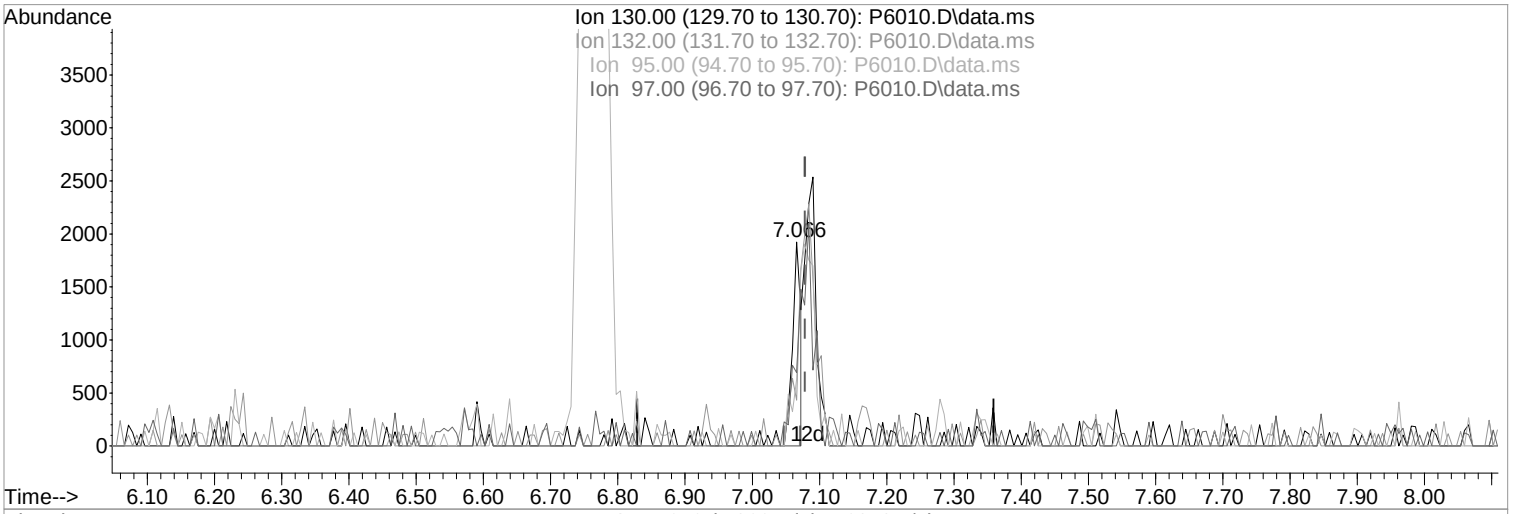
Split Peak

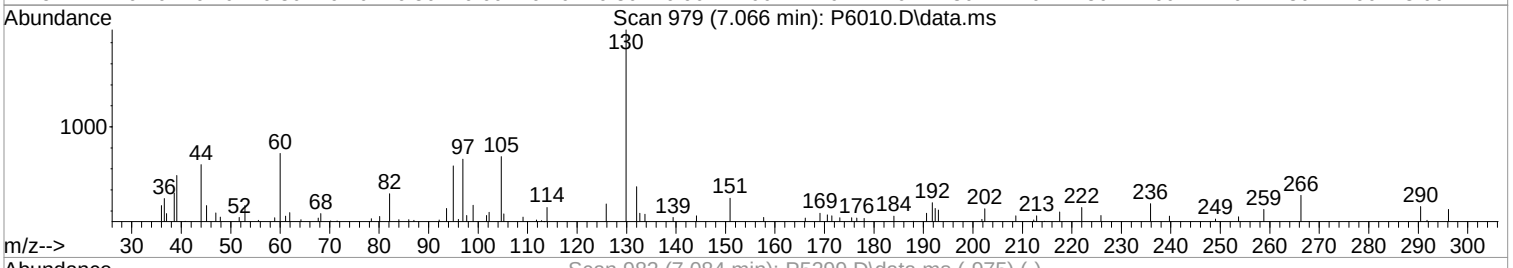
10/27/16

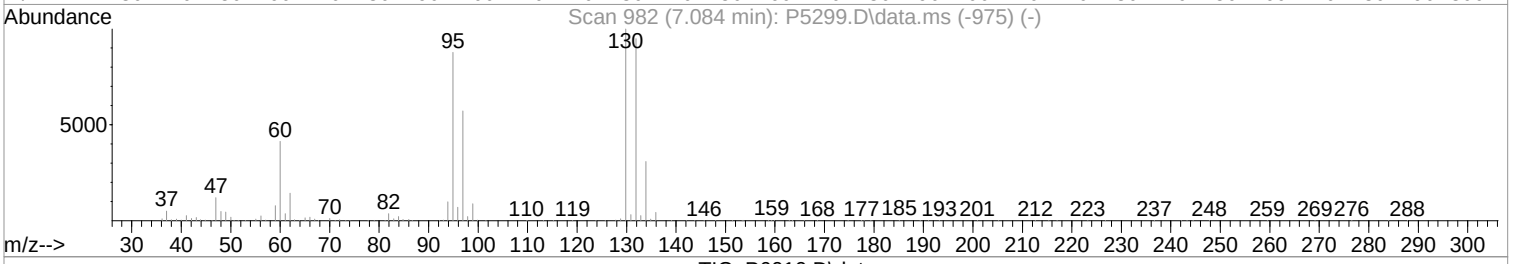
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 16:56:22 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6010.D\data.ms

(54) Trichloroethene (P)

7.066min (-0.012) 0.25 ppb

response 1637

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	31.65#
95.00	88.10	32.69#
97.00	57.40	44.18

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 17:38:28 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

dil

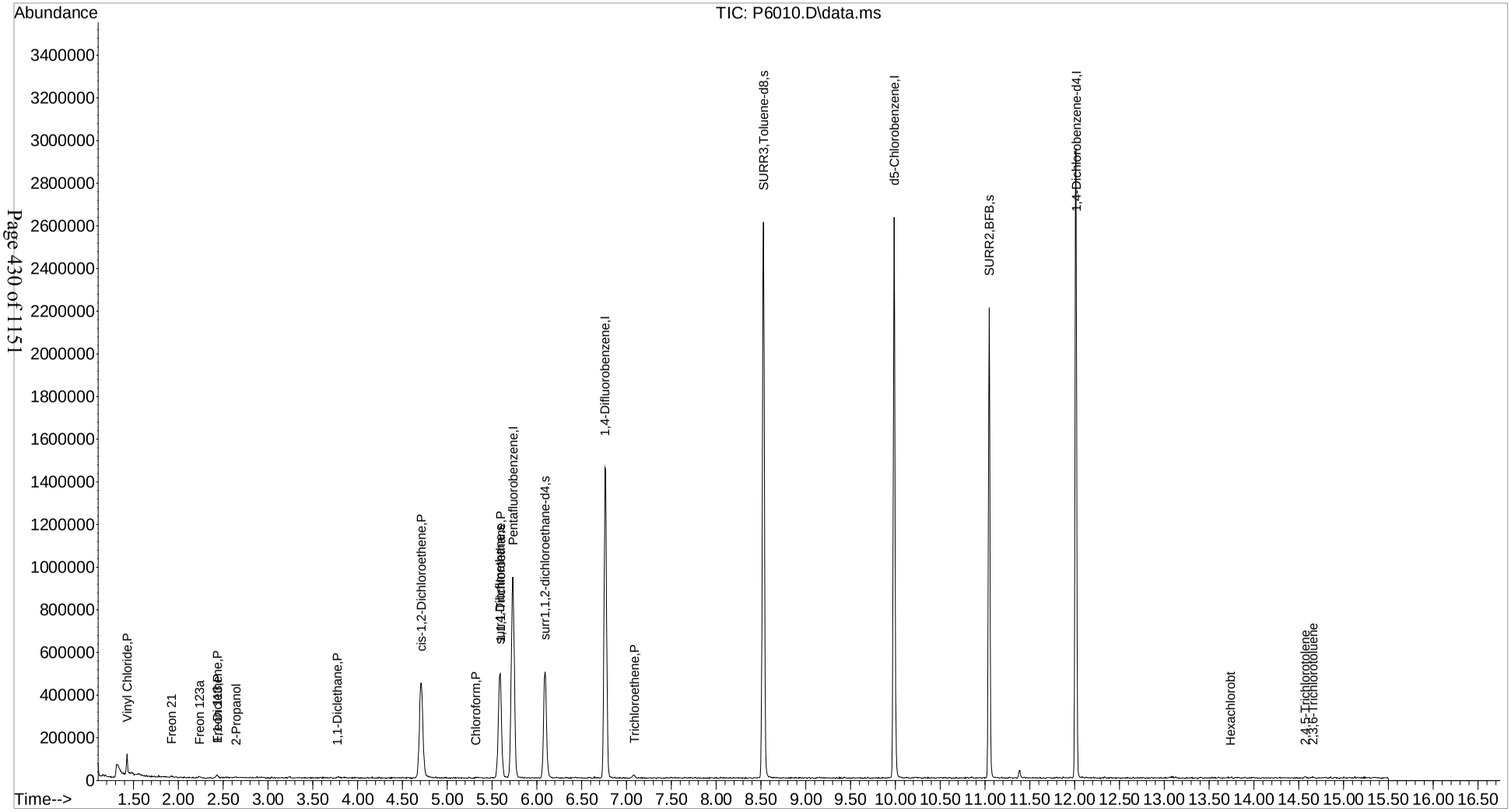
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	789127	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1253262	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1174245	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	596768	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	367723	54.98	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.96%				
48) surr1,1,2-dichloroetha...	6.090	65	404415	53.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.46%				
65) SURR3,Toluene-d8	8.529	98	1565281	57.11	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.22%				
70) SURR2,BFB	11.047	95	578154	54.07	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.14%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	48211	7.72	ppb	#	64
7) Freon 21	1.920	67	3251	0.39	ppb		99
10) Freon 123a	2.231	67	1790	0.36	ppb	#	25
13) 1,1-Diclethene	2.433	96	1135	0.21	ppb	#	28
14) Freon 113	2.433	101	3998m	0.69	ppb		
16) 2-Propanol	2.640	45	5125	18.67	ppb		91
28) 1,1-Diclethane	3.774	63	3462m	0.34	ppb		
34) cis-1,2-Dichloroethene	4.706	96	287097	45.59	ppb		92
40) Chloroform	5.316	83	2373m	0.24	ppb		
41) 1,1,1-Trichloroethane	5.590	97	4672m	0.51	ppb		
54) Trichloroethene	7.090	130	4621m	0.70	ppb		
116) Hexachlorobt	13.741	225	966	0.25	ppb	#	37
119) 2,4,5-Trichlorotolene	14.570	159	1700	0.30	ppb	#	59
120) 2,3,6-Trichlorotoluene	14.656	159	1172	0.23	ppb	#	81

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

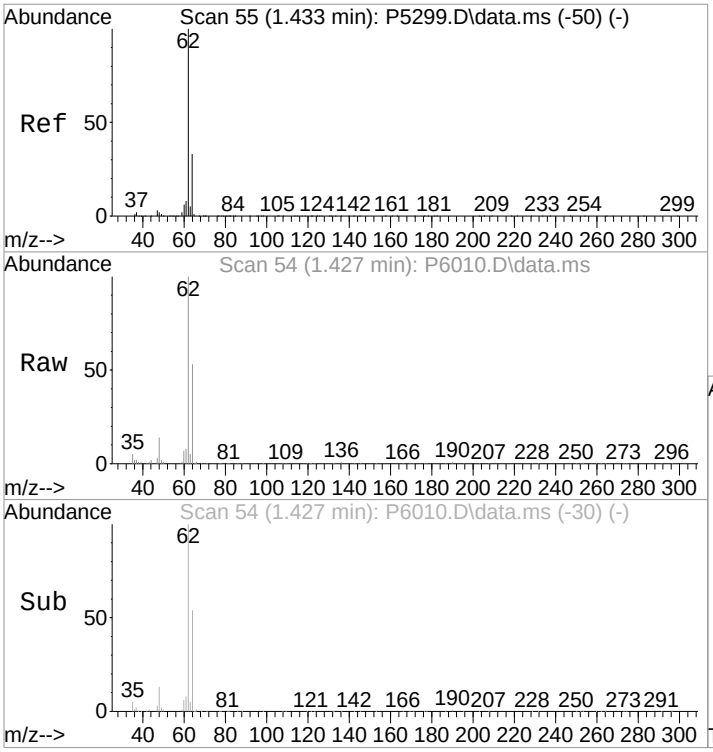
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6010.D
Acq On : 27 Oct 2016 4:21 pm
Operator : K.Ruest
Sample : R1611185-010|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 17:38:28 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



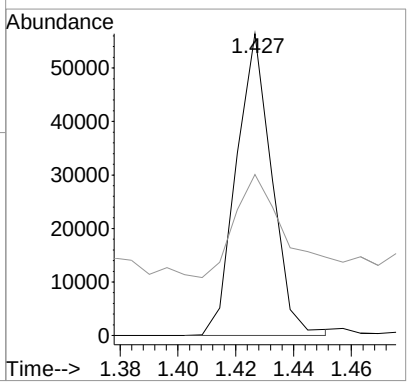
1st 10/28/16
2nd 10/31/16

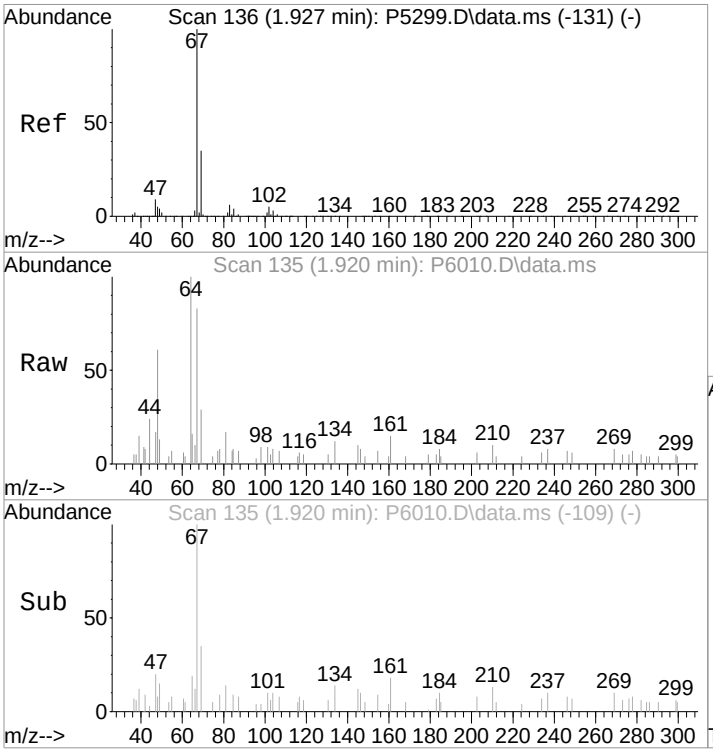


#4
Vinyl Chloride
Concen: 7.72 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 62 Resp: 48211

Ion	Ratio	Lower	Upper
62	100		
64	53.4	13.1	53.1#

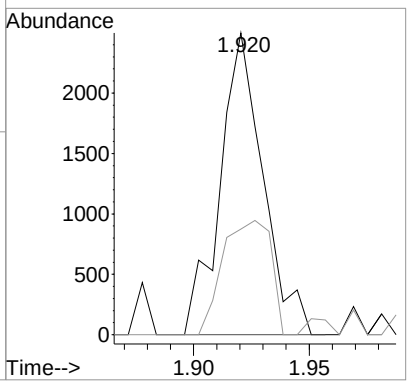


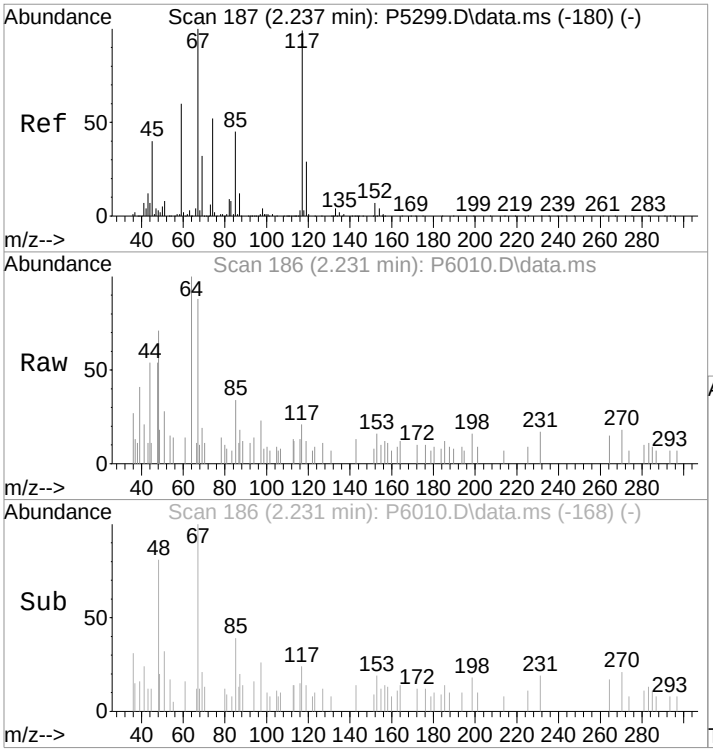


#7
Freon 21
Concen: 0.39 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 67 Resp: 3251

Ion	Ratio	Lower	Upper
67	100		
69	35.0	14.4	54.4

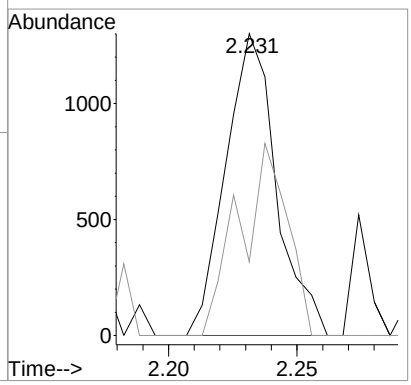


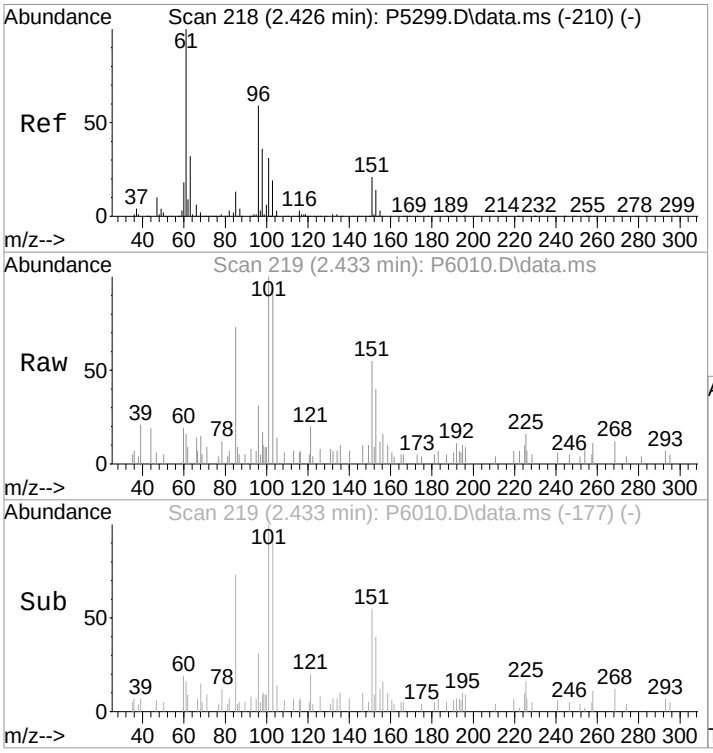


#10
Freon 123a
Concen: 0.36 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 67 Resp: 1790

Ion	Ratio	Lower	Upper
67	100		
117	24.3	78.8	118.8#

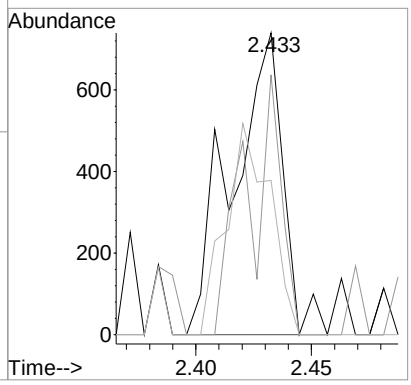


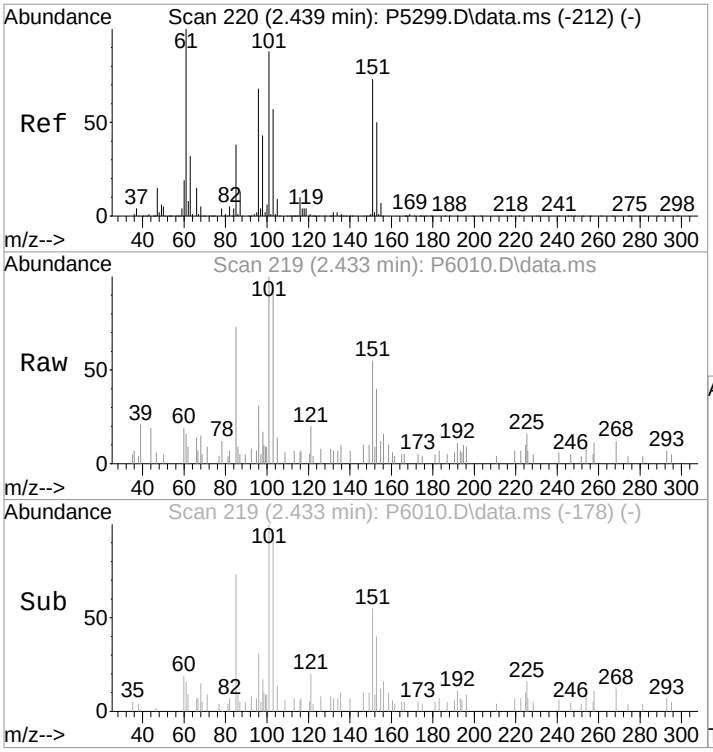


#13
1,1-Diclethene
Concen: 0.21 ppb
RT: 2.433 min Scan# 219
Delta R.T. 0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 96 Resp: 1135

Ion	Ratio	Lower	Upper
96	100		
98	86.1	41.8	81.8#
61	51.1	150.1	190.1#

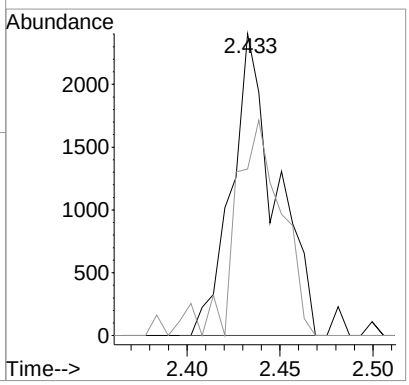


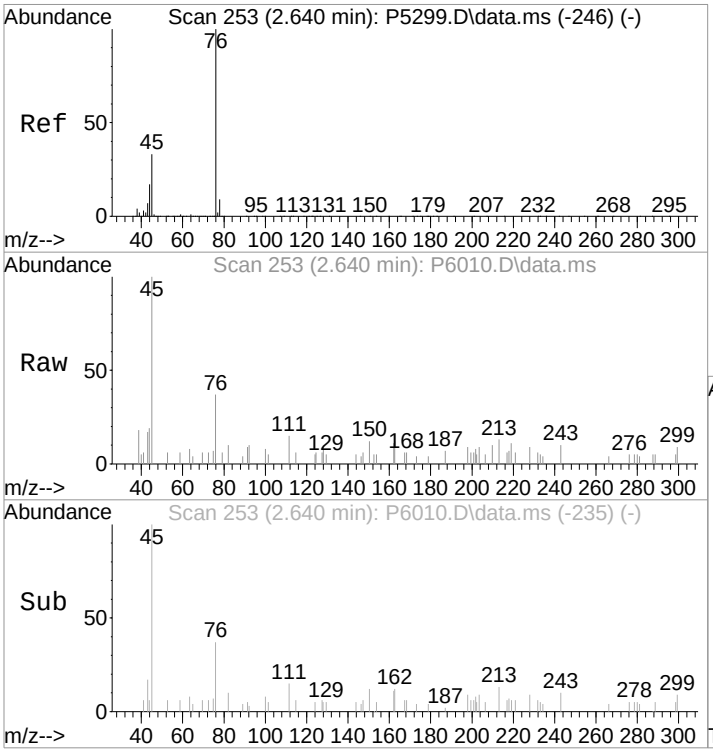


#14
Freon 113
Concen: 0.69 ppb m
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion:101 Resp: 3998

Ion	Ratio	Lower	Upper
101	100		
151	55.2	62.6	102.6#

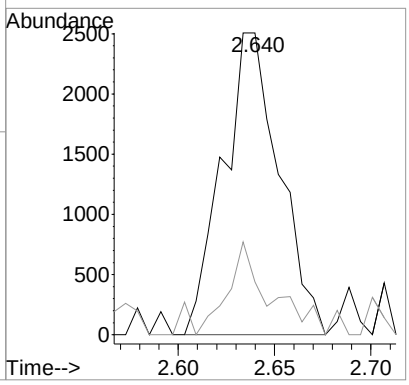


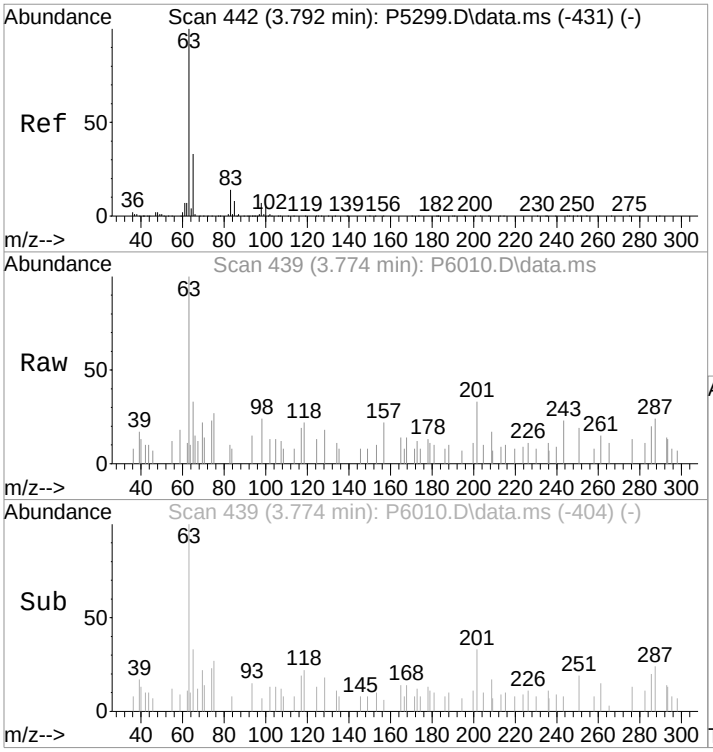


#16
2-Propanol
Concen: 18.67 ppb
RT: 2.640 min Scan# 253
Delta R.T. -0.000 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 45 Resp: 5125

Ion	Ratio	Lower	Upper
45	100		
43	17.5	1.6	41.6

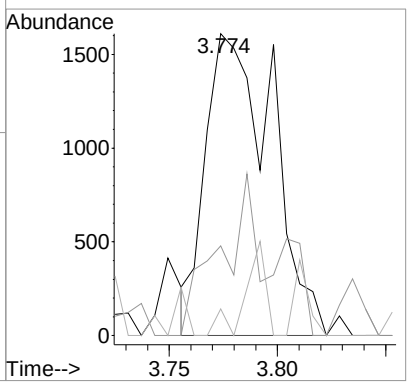


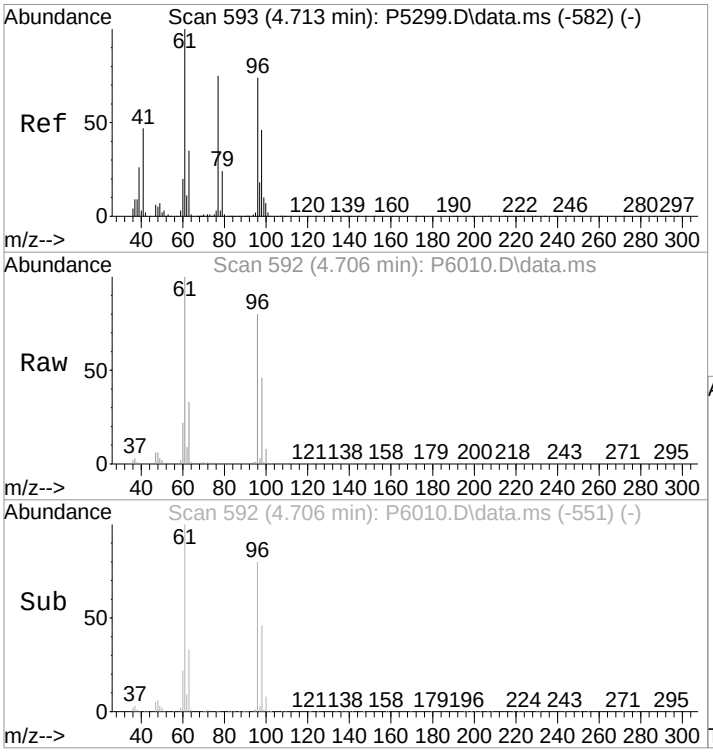


#28
1,1-Diclethane
Concen: 0.34 ppb m
RT: 3.774 min Scan# 439
Delta R.T. -0.012 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 63 Resp: 3462

Ion	Ratio	Lower	Upper
63	100		
65	32.6	12.9	52.9
83	9.7	0.0	33.5

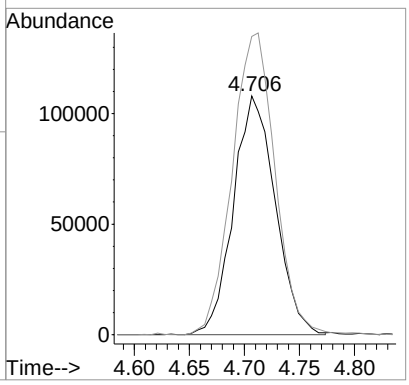


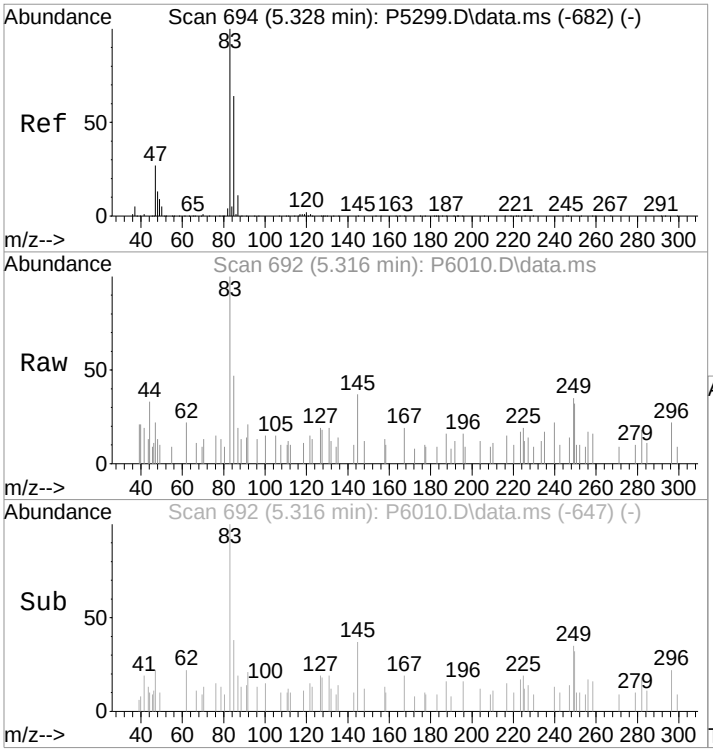


#34
cis-1,2-Dichloroethene
Concen: 45.59 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 96 Resp: 287097

Ion	Ratio	Lower	Upper
96	100		
61	124.9	114.6	154.6

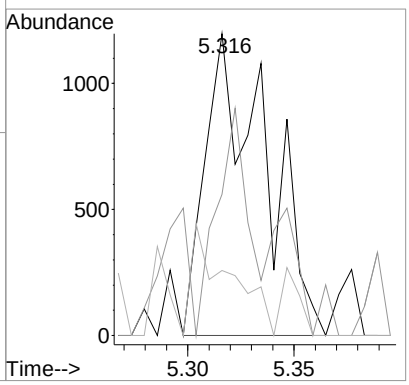


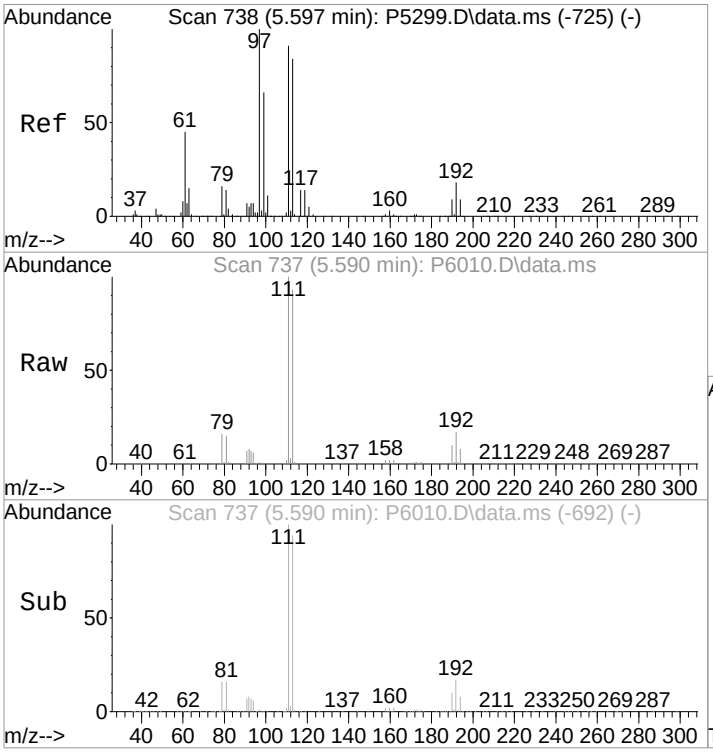


#40
Chloroform
Concen: 0.24 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 83 Resp: 2373

Ion	Ratio	Lower	Upper
83	100		
85	46.7	44.1	84.1
47	21.5	7.4	47.4

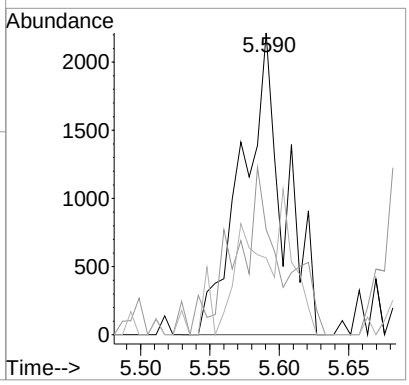


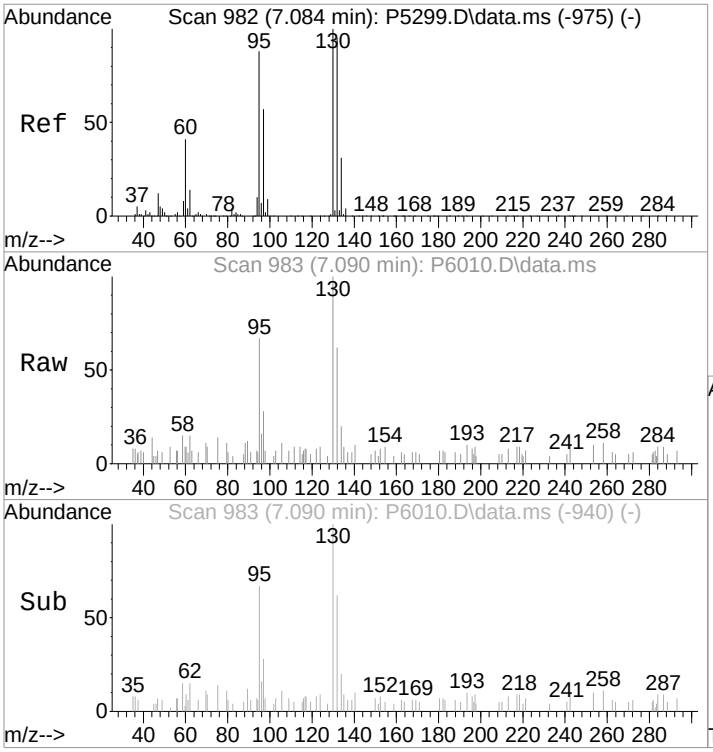


#41
1,1,1-Trichloroethane
Concen: 0.51 ppb m
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion: 97 Resp: 4672

Ion	Ratio	Lower	Upper
97	100		
99	34.9	46.2	86.2#
61	25.4	25.3	65.3

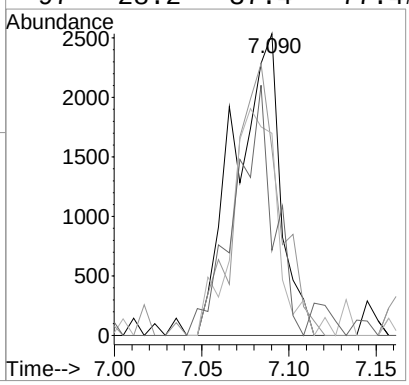


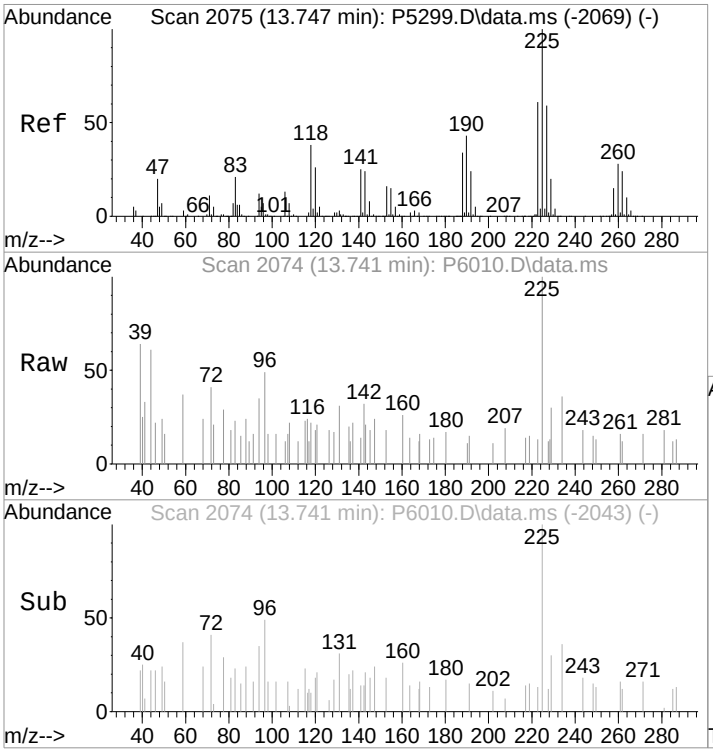


#54
Trichloroethene
Concen: 0.70 ppb m
RT: 7.090 min Scan# 983
Delta R.T. 0.012 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion:130 Resp: 4621

Ion	Ratio	Lower	Upper
130	100		
132	61.8	75.2	115.2#
95	67.0	68.1	108.1#
97	28.2	37.4	77.4#

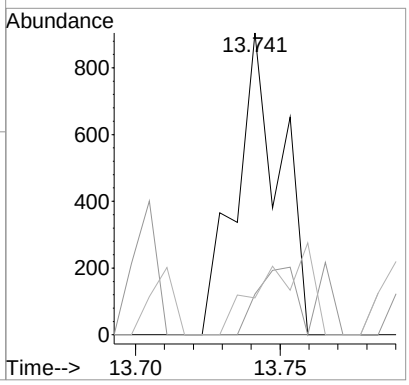


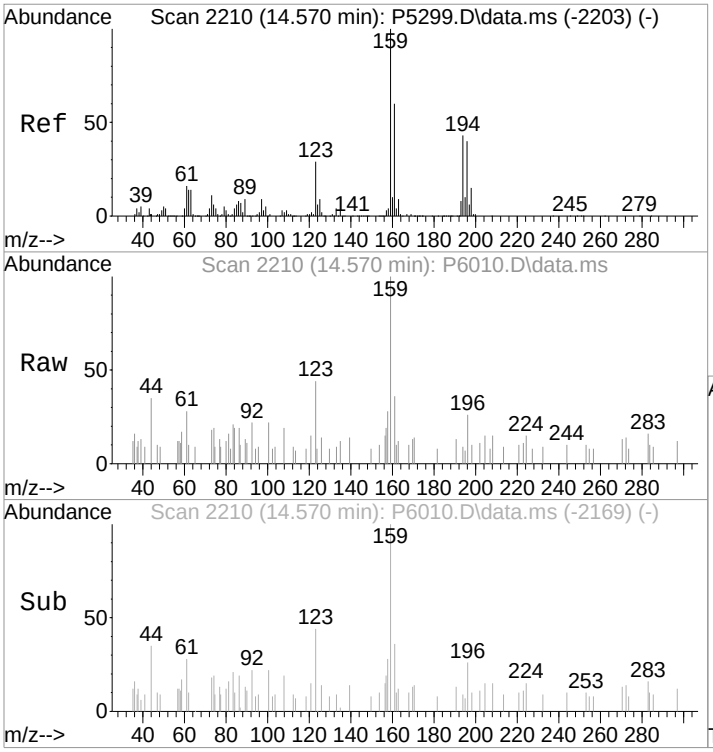


#116
Hexachlorobt
Concen: 0.25 ppb
RT: 13.741 min Scan# 2074
Delta R.T. -0.006 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion:225 Resp: 966

Ion	Ratio	Lower	Upper
225	100		
223	13.5	41.4	81.4#
227	12.3	39.1	79.1#

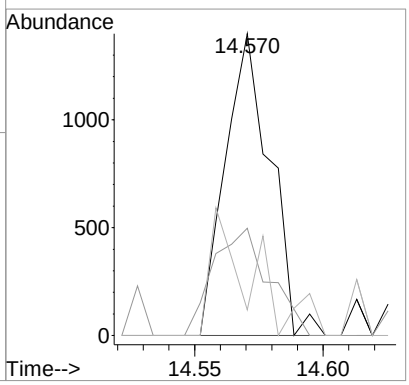


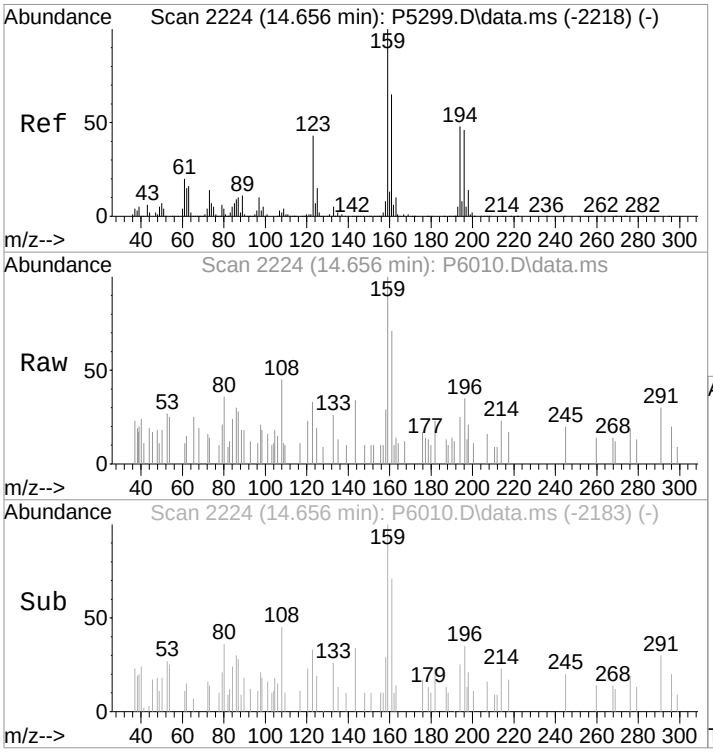


#119
2,4,5-Trichlorotolene
Concen: 0.30 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion:159 Resp: 1700

Ion	Ratio	Lower	Upper
159	100		
161	35.5	48.1	72.1#
194	8.5	34.5	51.7#

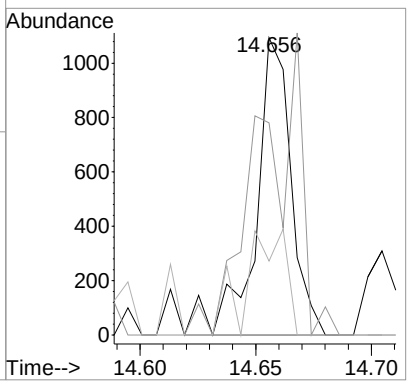




#120
2,3,6-Trichlorotoluene
Concen: 0.23 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6010.D
Acq: 27 Oct 2016 4:21 pm

Tgt Ion:159 Resp: 1172

Ion	Ratio	Lower	Upper
159	100		
161	71.4	52.3	78.5
194	24.9	38.6	57.8#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5958.D
Acq On : 26 Oct 2016 12:52 pm
Operator : K.Ruest
Sample : R1611185-011|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:32:10 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

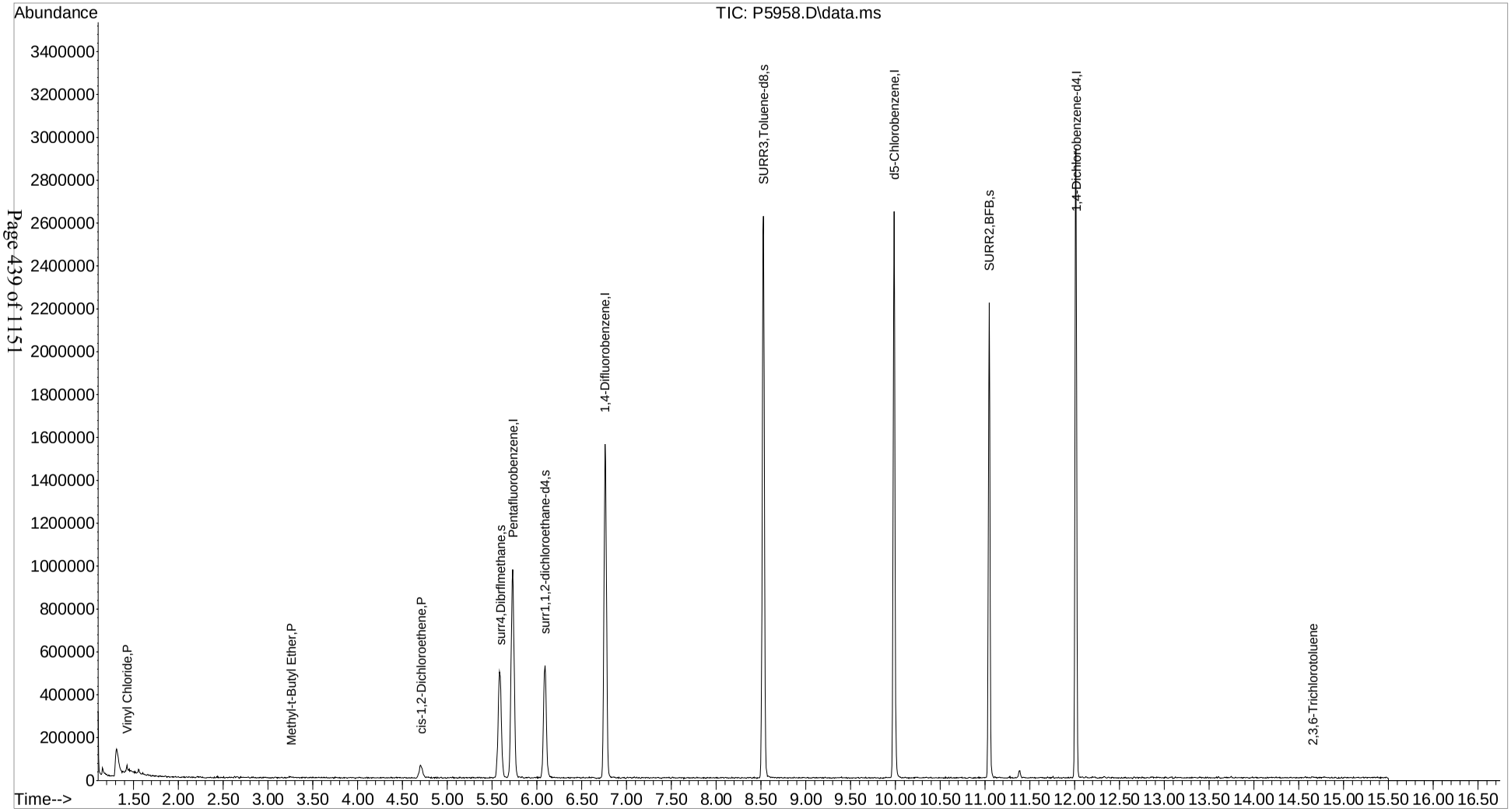
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	807503	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.761	114	1314387	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1201244	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	622883	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.591	113	381232	54.35	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.70%			
48) surr1,1,2-dichloroetha...	6.090	65	417403	52.38	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.76%			
65) SURR3,Toluene-d8	8.529	98	1603534	55.78	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.56%			
70) SURR2,BFB	11.047	95	593163	52.89	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.78%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.427	62	10895	1.71	ppb	# 1
25) Methyl-t-Butyl Ether	3.262	73	3628	0.23	ppb	91
34) cis-1,2-Dichloroethene	4.707	96	37147	5.76	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	1299	0.24	ppb	# 66

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

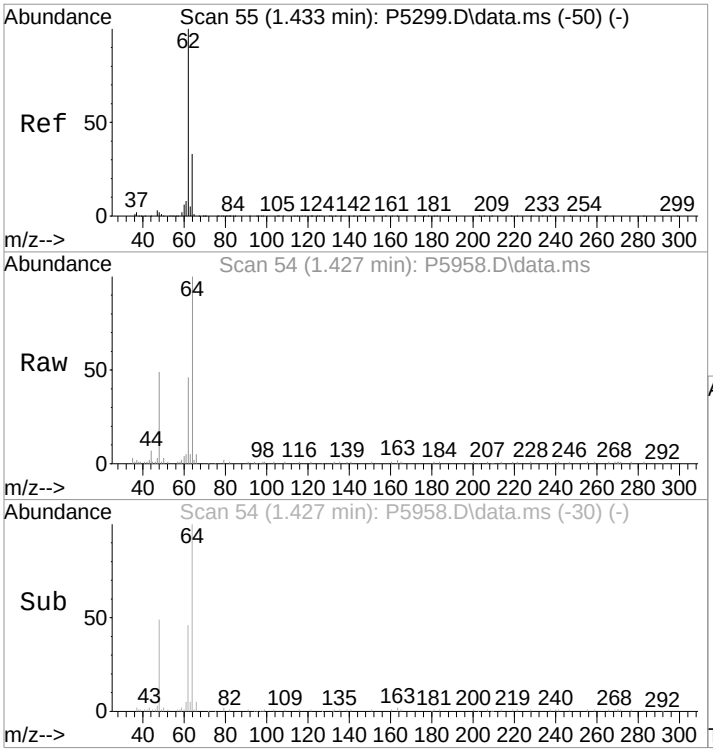
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5958.D
Acq On : 26 Oct 2016 12:52 pm
Operator : K.Ruest
Sample : R1611185-011|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:32:10 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



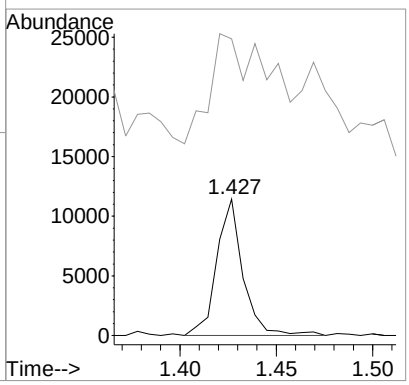
1st 10/26/16
2nd 10/27/16

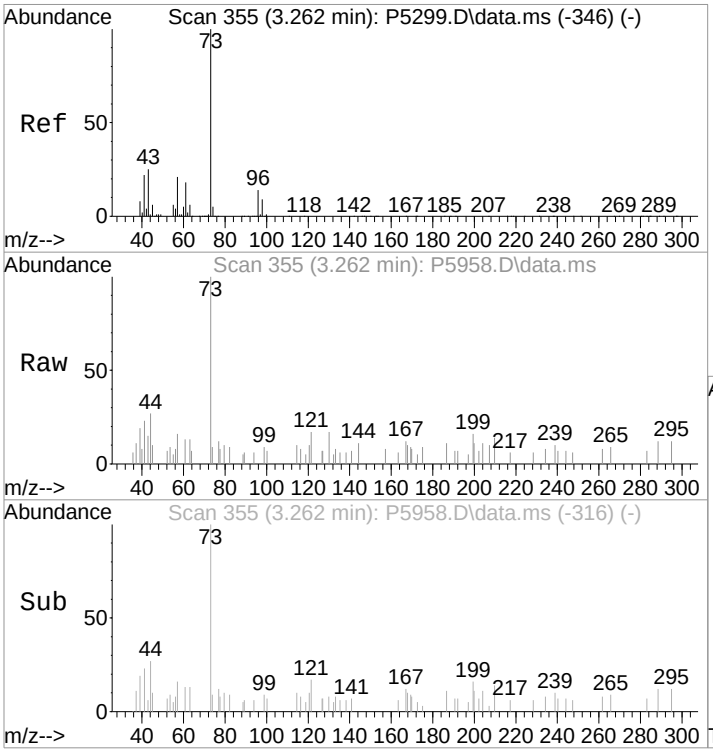


#4
Vinyl Chloride
Concen: 1.71 ppb
RT: 1.427 min Scan# 54
Delta R.T. 0.000 min
Lab File: P5958.D
Acq: 26 Oct 2016 12:52 pm

Tgt Ion: 62 Resp: 10895

Ion	Ratio	Lower	Upper
62	100		
64	217.4	13.1	53.1#

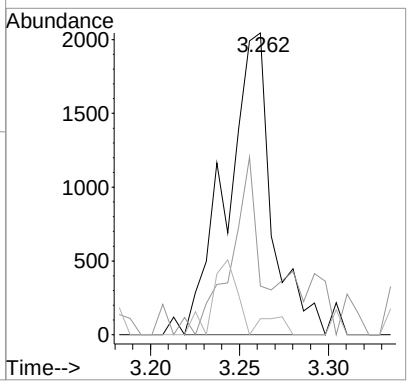


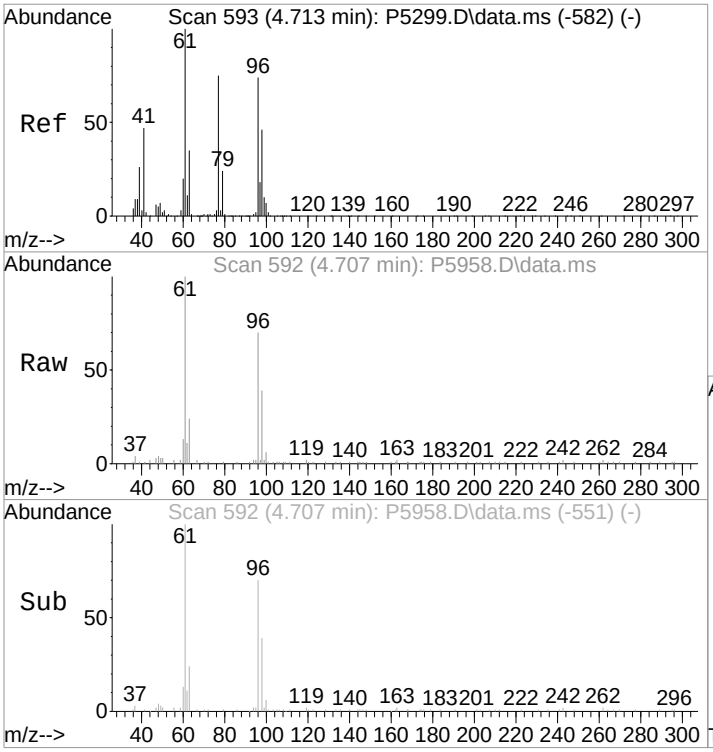


#25
Methyl-t-Butyl Ether
Concen: 0.23 ppb
RT: 3.262 min Scan# 355
Delta R.T. 0.000 min
Lab File: P5958.D
Acq: 26 Oct 2016 12:52 pm

Tgt Ion: 73 Resp: 3628

Ion	Ratio	Lower	Upper
73	100		
57	16.2	1.5	41.5
55	5.4	0.0	25.8

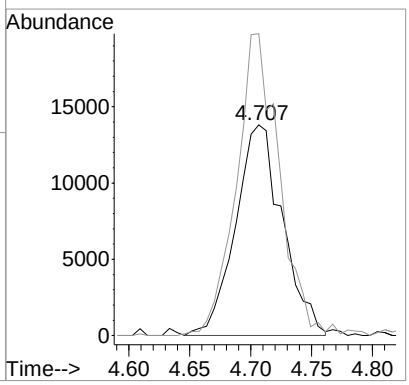


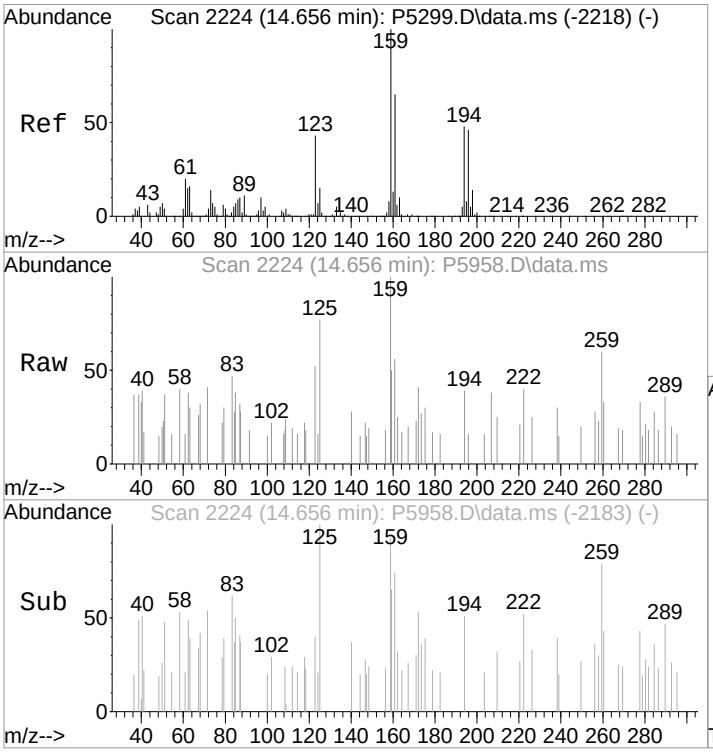


#34
cis-1,2-Dichloroethene
Concen: 5.76 ppb
RT: 4.707 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5958.D
Acq: 26 Oct 2016 12:52 pm

Tgt Ion: 96 Resp: 37147

Ion	Ratio	Lower	Upper
96	100		
61	143.4	114.6	154.6

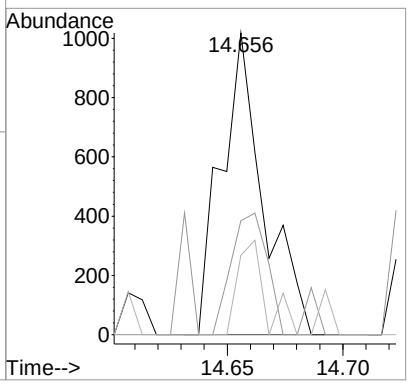




#120
2,3,6-Trichlorotoluene
Concen: 0.24 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P5958.D
Acq: 26 Oct 2016 12:52 pm

Tgt Ion:159 Resp: 1299

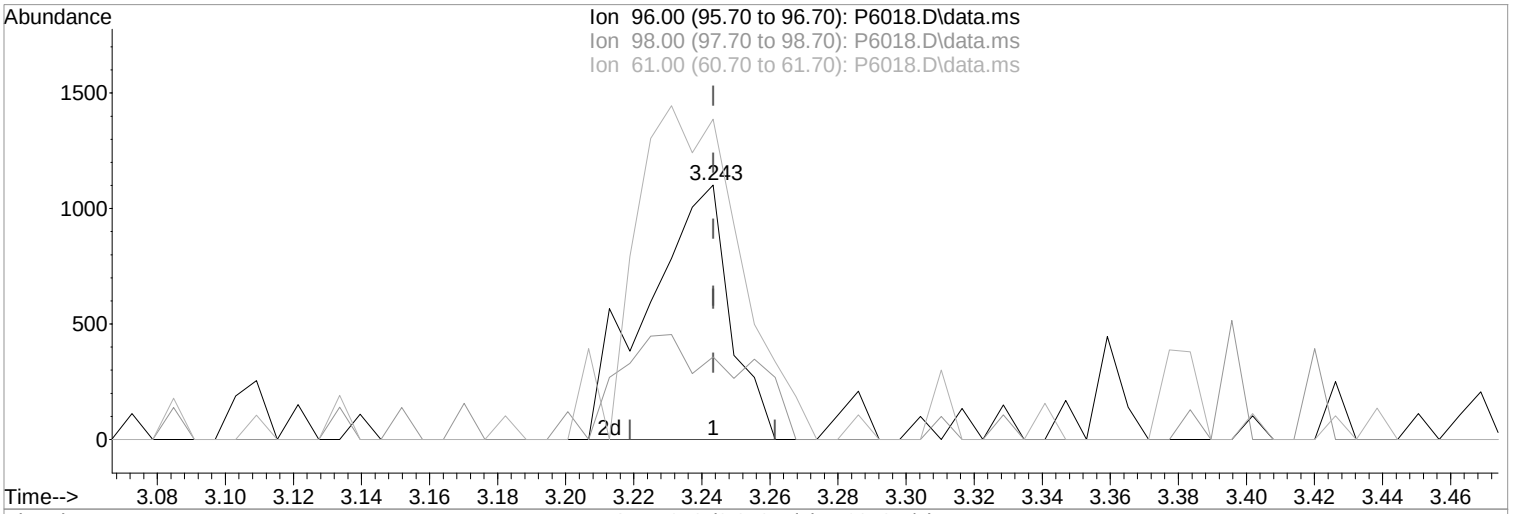
Ion	Ratio	Lower	Upper
159	100		
161	37.7	52.3	78.5#
194	26.3	38.6	57.8#

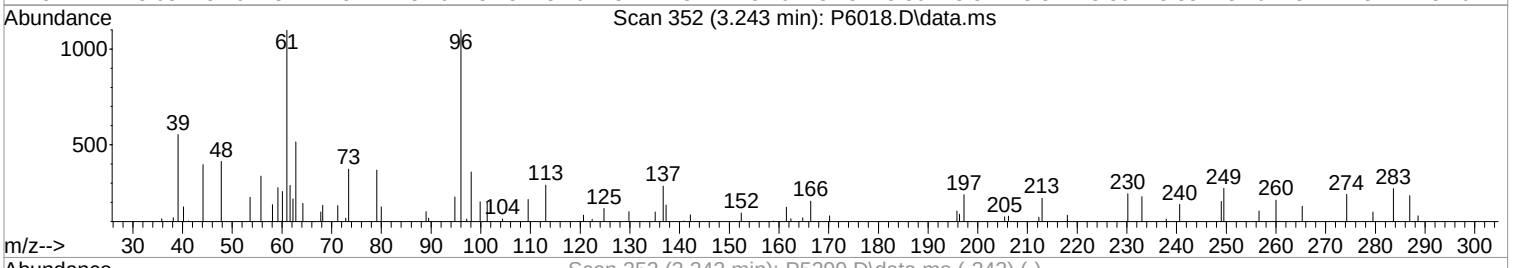


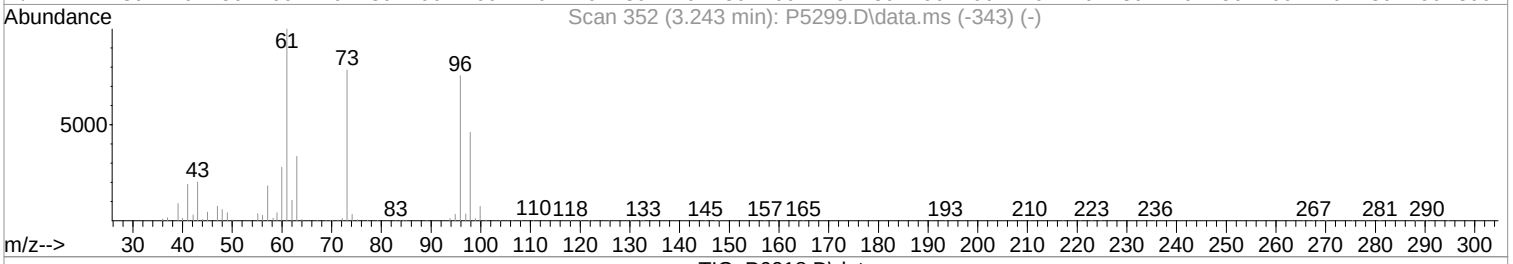
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 08:42:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6018.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.30 ppb m

response 1854

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	32.52#
61.00	132.40	99.82#
0.00	0.00	0.00

Manual Integration:

After

Split Peak

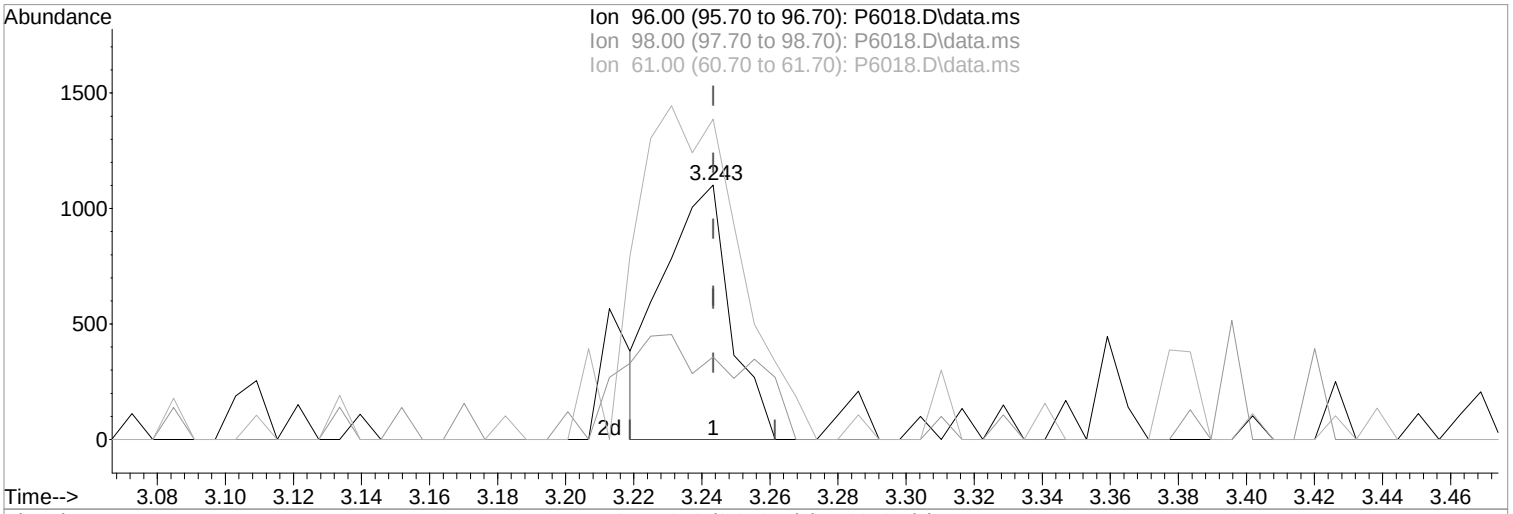
10/28/16

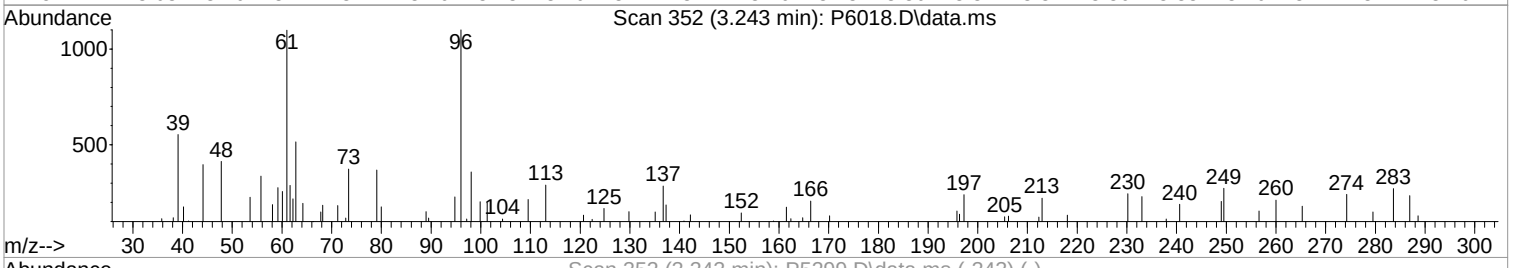
1st 10/28/16
2nd 10/31/16

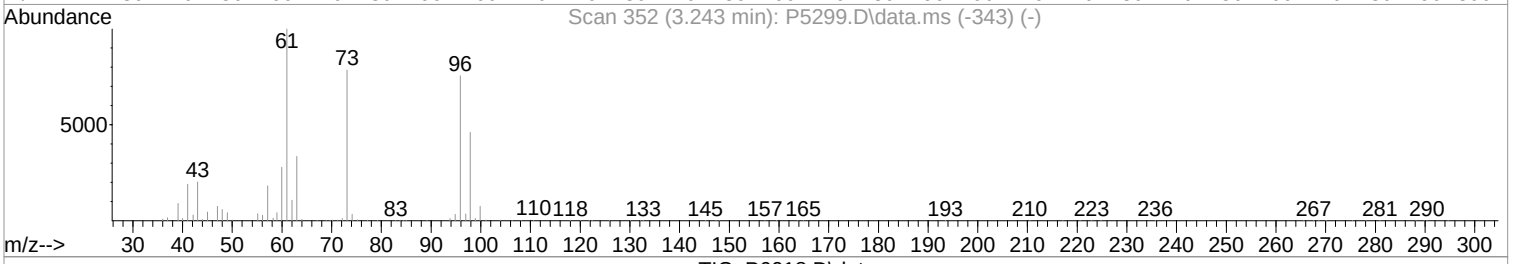
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 08:42:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6018.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.24 ppb

response 1507

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	32.52#
61.00	132.40	125.98
0.00	0.00	0.00

Manual Integration:

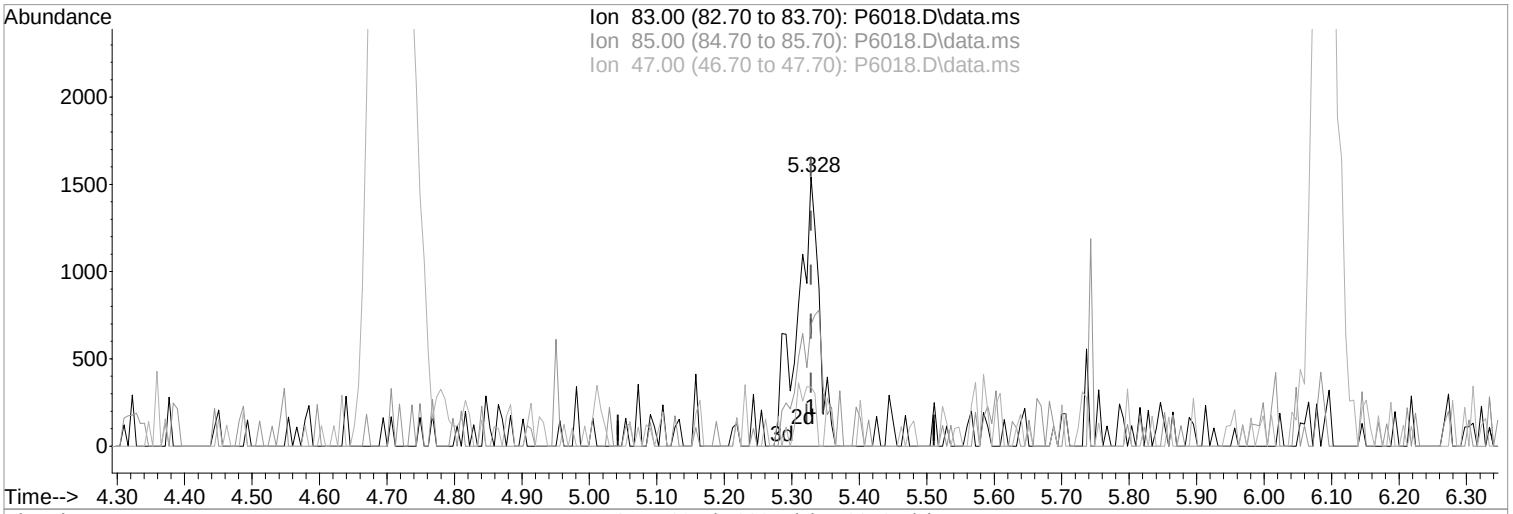
Before

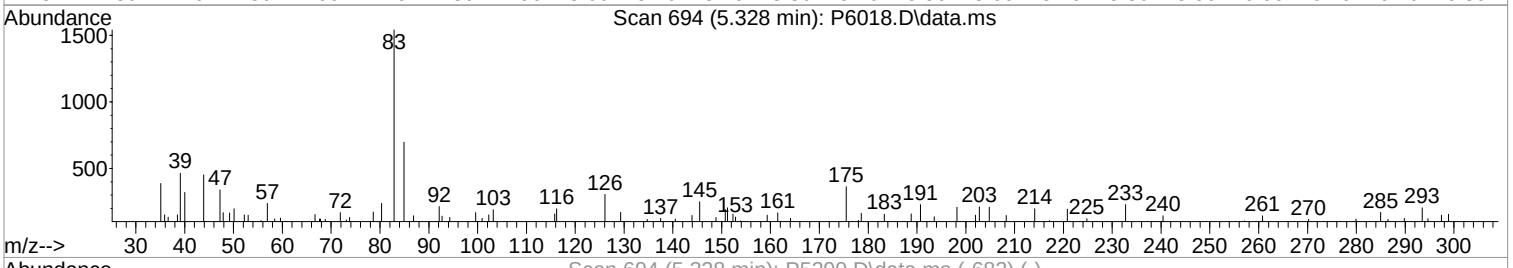
10/28/16

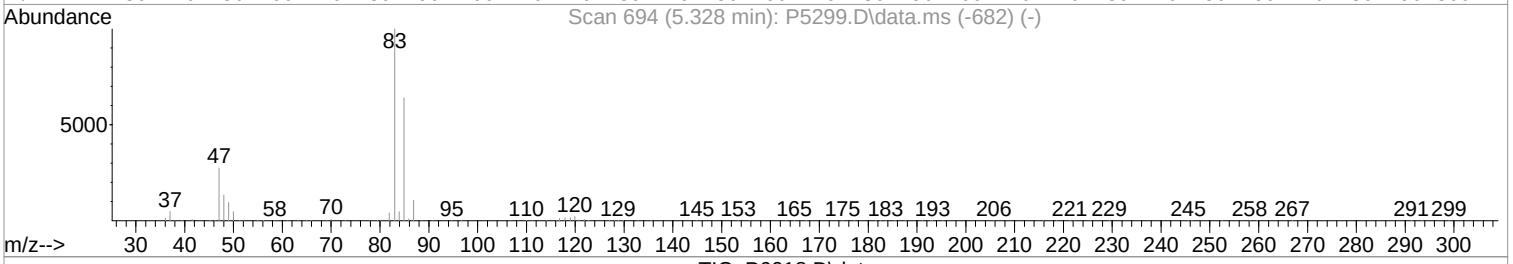
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 08:42:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6018.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.35 ppb m

response 3467

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	45.20
47.00	27.40	21.98
0.00	0.00	0.00

Manual Integration:

After

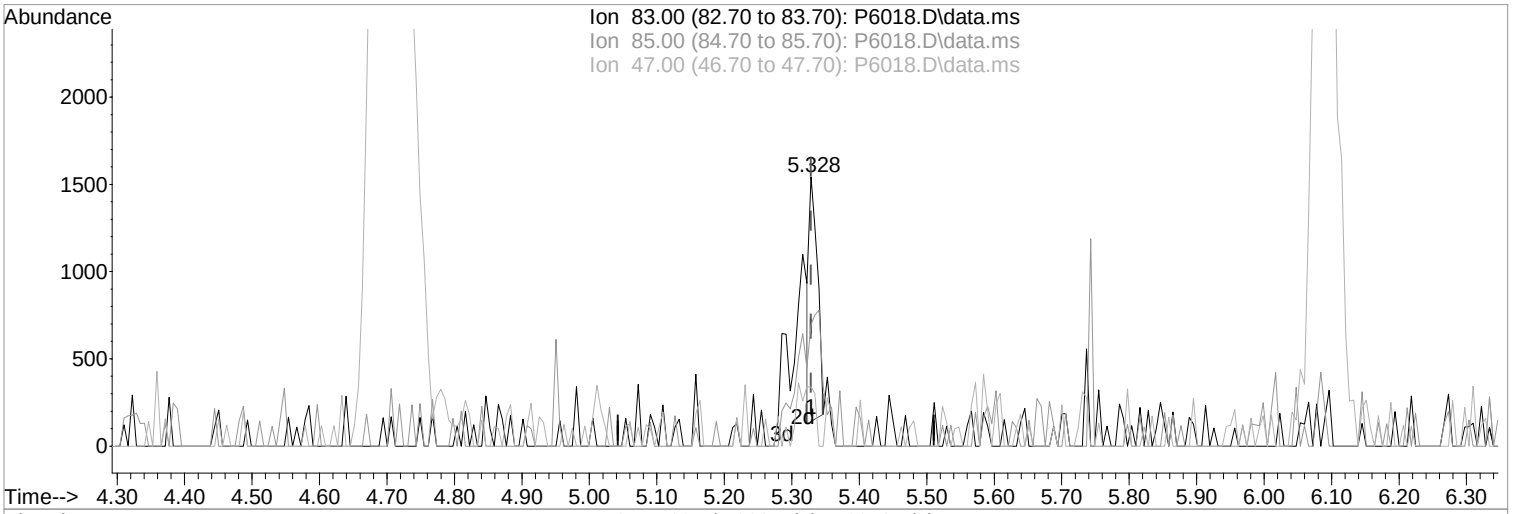
Split Peak

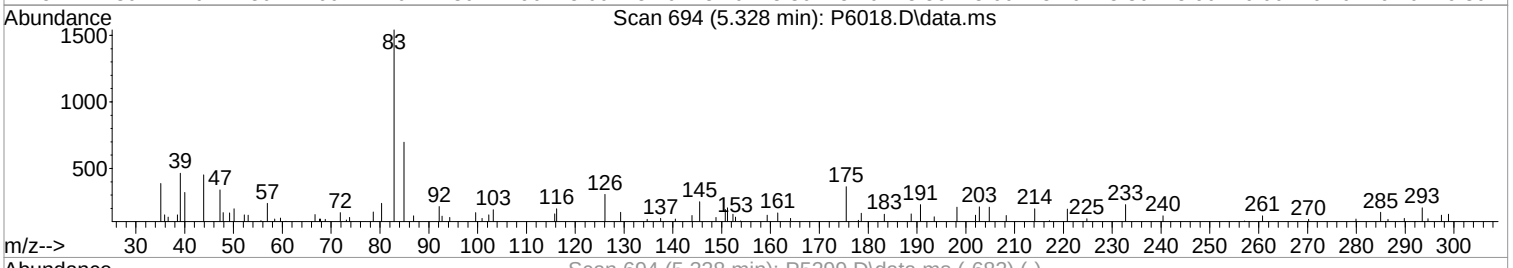
10/28/16

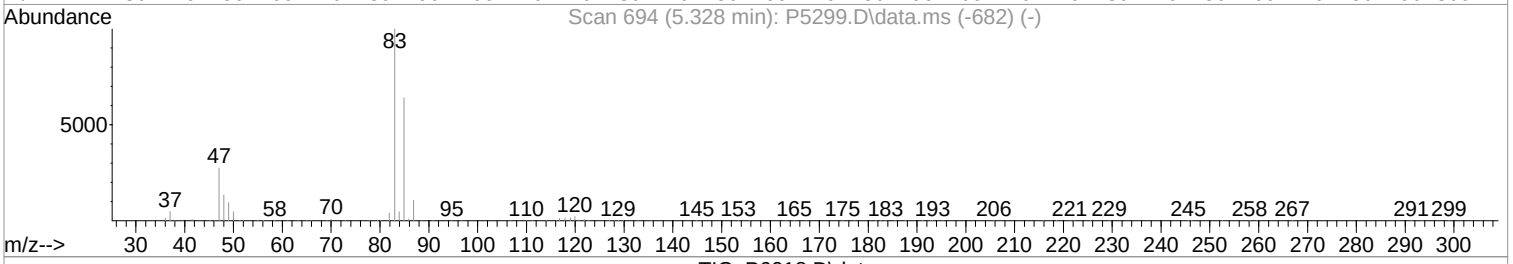
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 08:42:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6018.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.12 ppb

response 1193

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	45.20
47.00	27.40	21.98
0.00	0.00	0.00

Manual Integration:

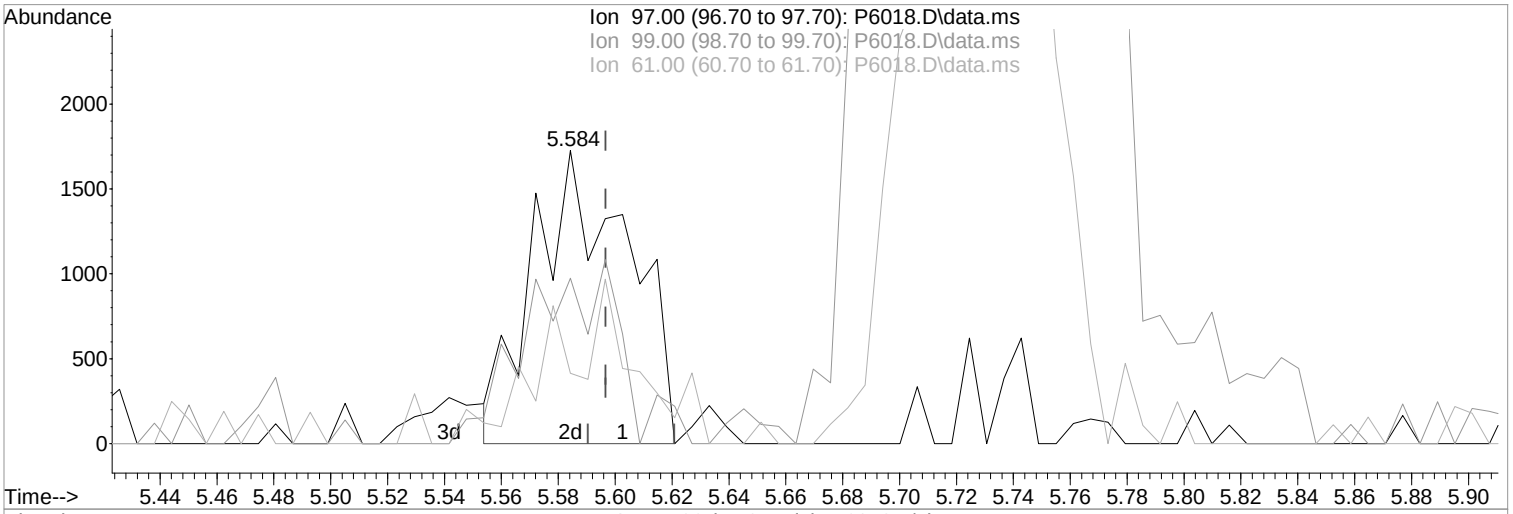
Before

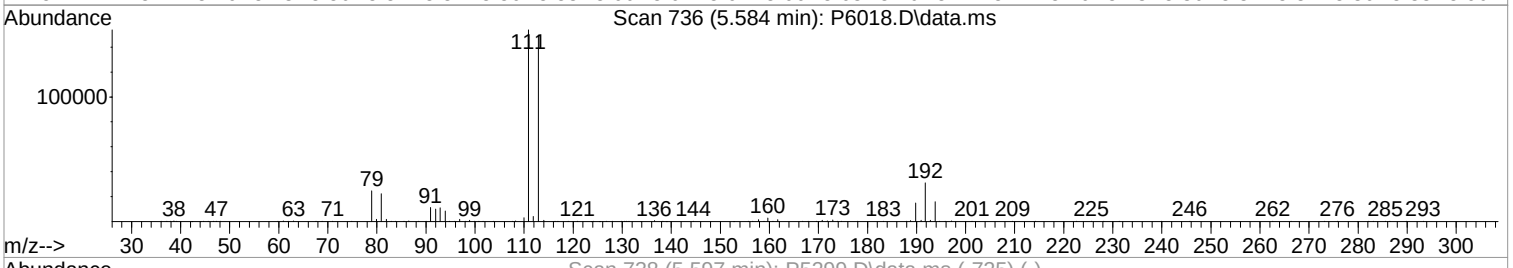
10/28/16

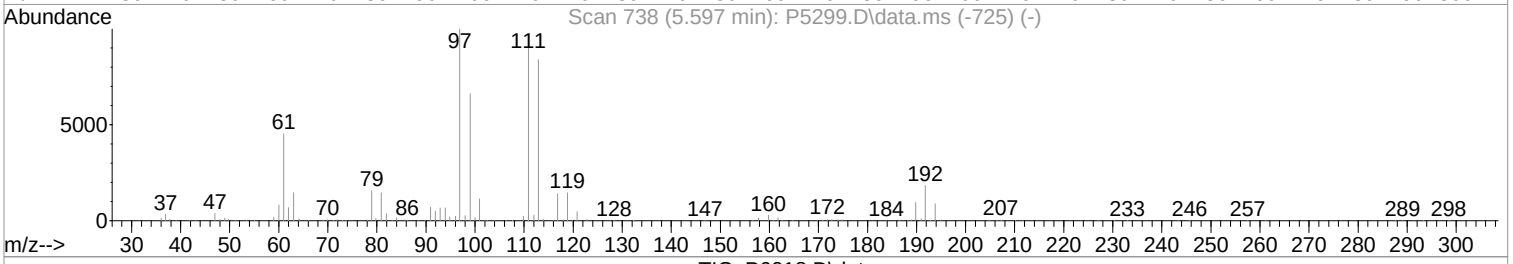
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 08:42:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6018.D\data.ms

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

5.584min (-0.012) 0.44 ppb m

response 4017

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	56.43
61.00	45.30	23.99#
0.00	0.00	0.00

Manual Integration:

After

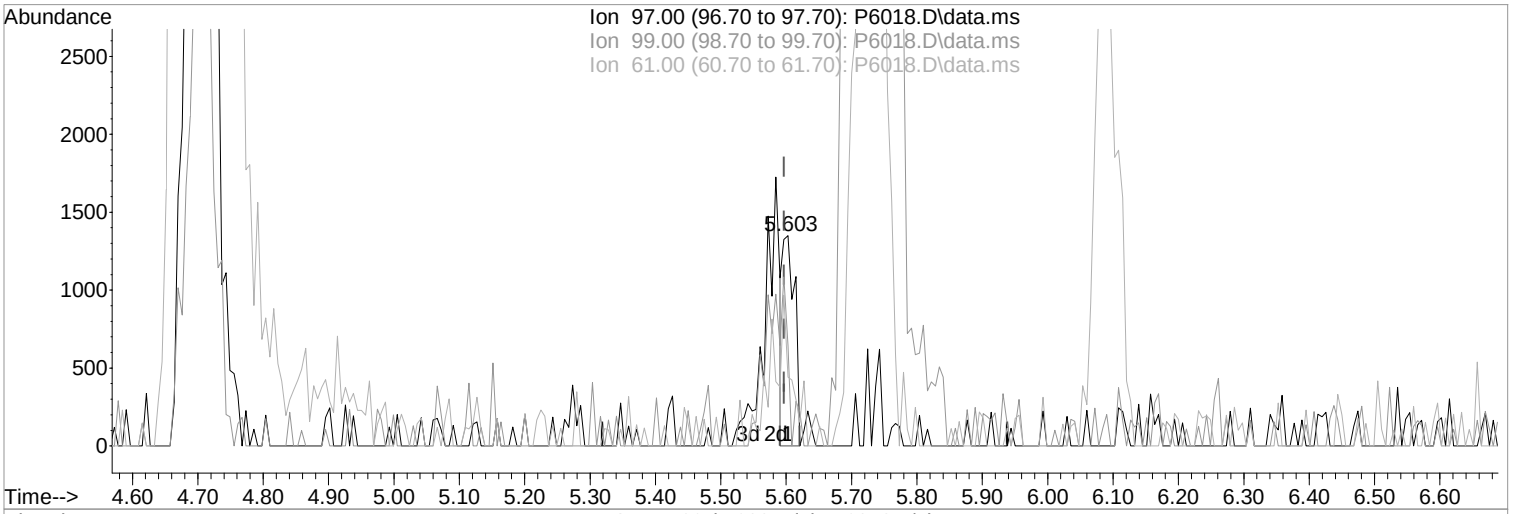
Split Peak

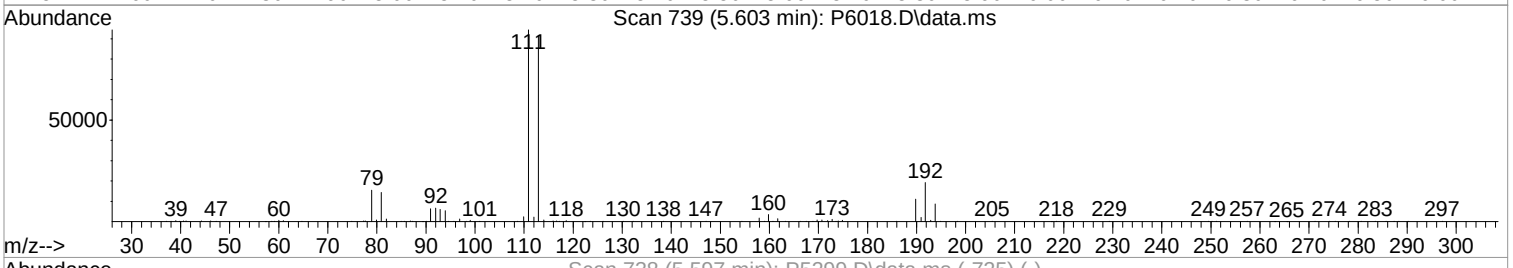
10/28/16

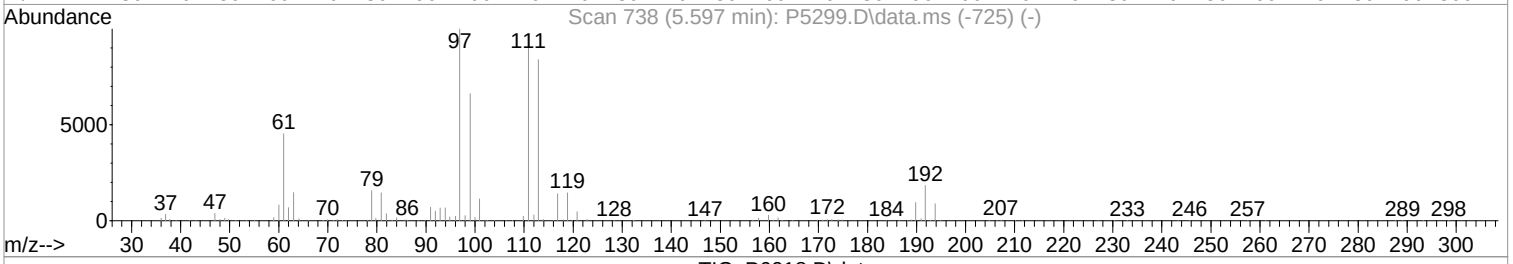
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 08:42:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6018.D\data.ms

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

5.603min (+0.006) 0.19 ppb

response 1719

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	47.89
61.00	45.30	32.77
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 14:01:13 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

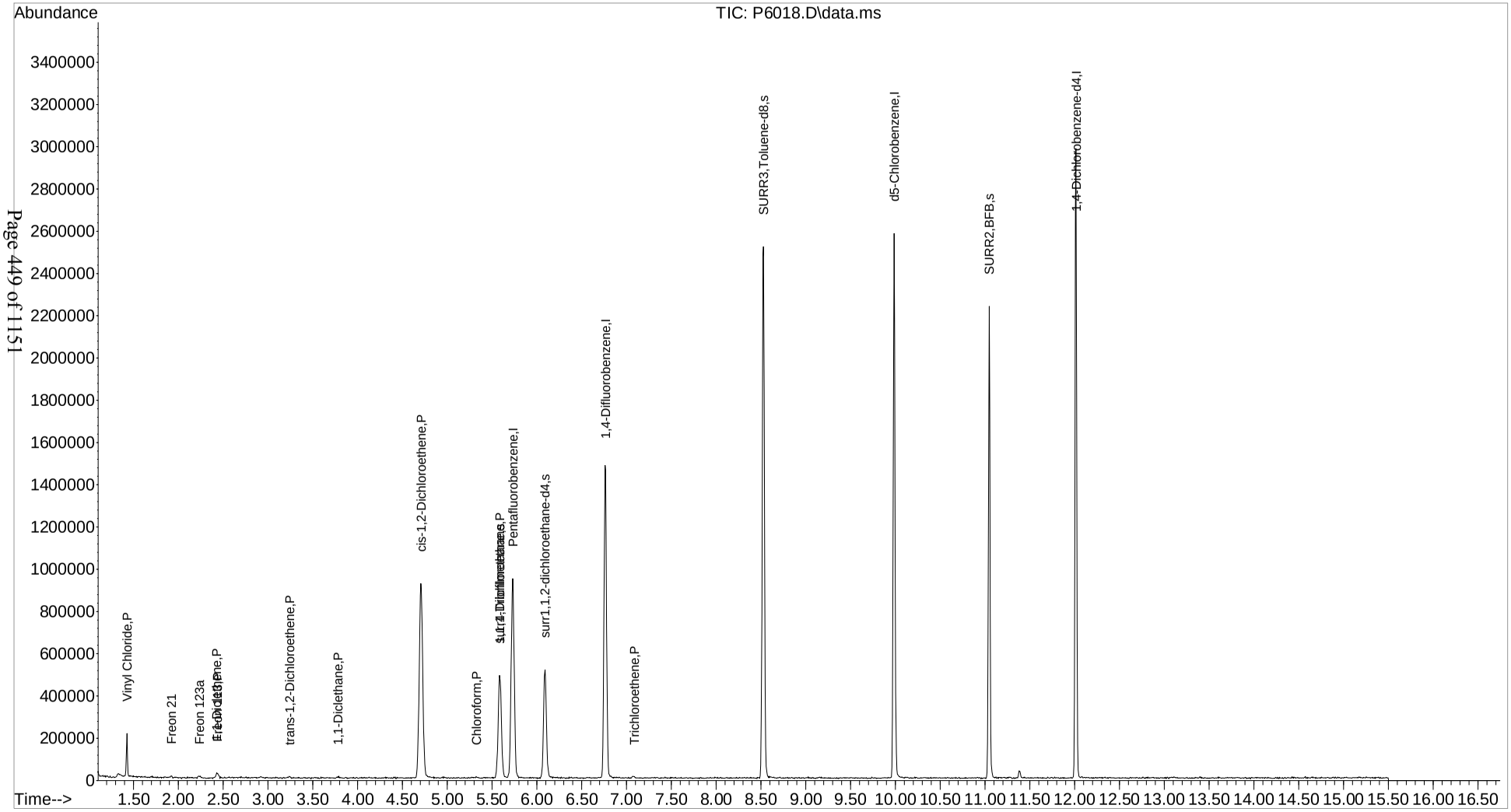
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	787543	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1265944	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1164766	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	590860	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	369220	54.65	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.30%				
48) surr1,1,2-dichloroetha...	6.090	65	410422	53.47	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.94%				
65) SURR3,Toluene-d8	8.529	98	1577668	56.98	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.96%				
70) SURR2,BFB	11.047	95	568814	52.66	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.32%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	103455	16.60	ppb		92
7) Freon 21	1.920	67	5269	0.64	ppb		95
10) Freon 123a	2.231	67	3328	0.66	ppb		84
13) 1,1-Diclethene	2.426	96	1486	0.27	ppb	#	62
14) Freon 113	2.432	101	8176	1.41	ppb	#	40
26) trans-1,2-Dichloroethene	3.243	96	1854m	0.30	ppb		
28) 1,1-Diclethane	3.780	63	3569	0.35	ppb		80
34) cis-1,2-Dichloroethene	4.706	96	585549	93.17	ppb		97
40) Chloroform	5.328	83	3467m	0.35	ppb		
41) 1,1,1-Trichloroethane	5.584	97	4017m	0.44	ppb		
54) Trichloroethene	7.084	130	2524	0.38	ppb	#	82

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

Quantitation Report (QT Reviewed)

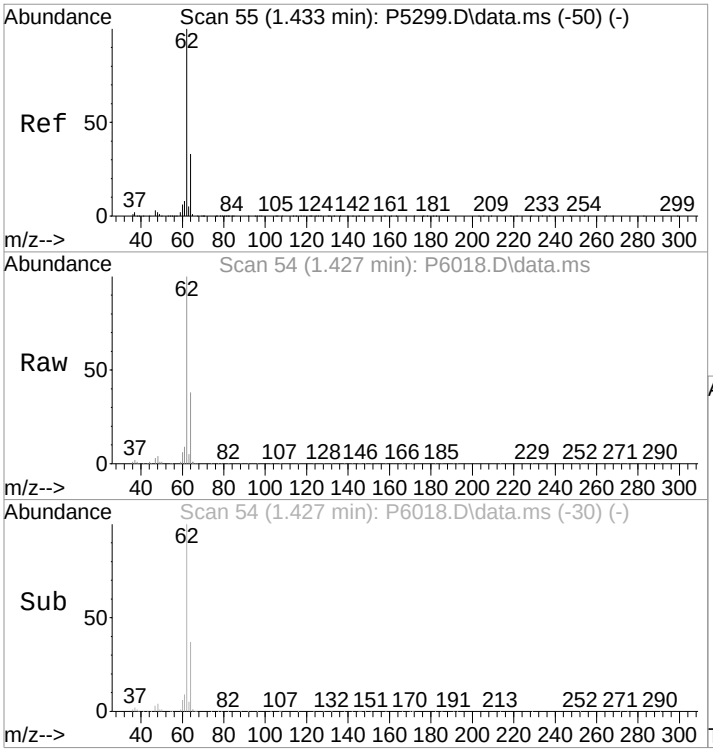
Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6018.D
Acq On : 27 Oct 2016 8:23 pm
Operator : K.Ruest
Sample : R1611185-012|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 28 14:01:13 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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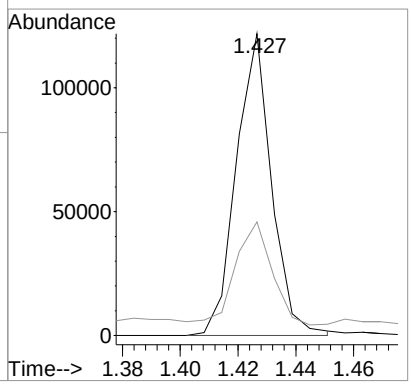
1st 10/28/16
2nd 10/31/16

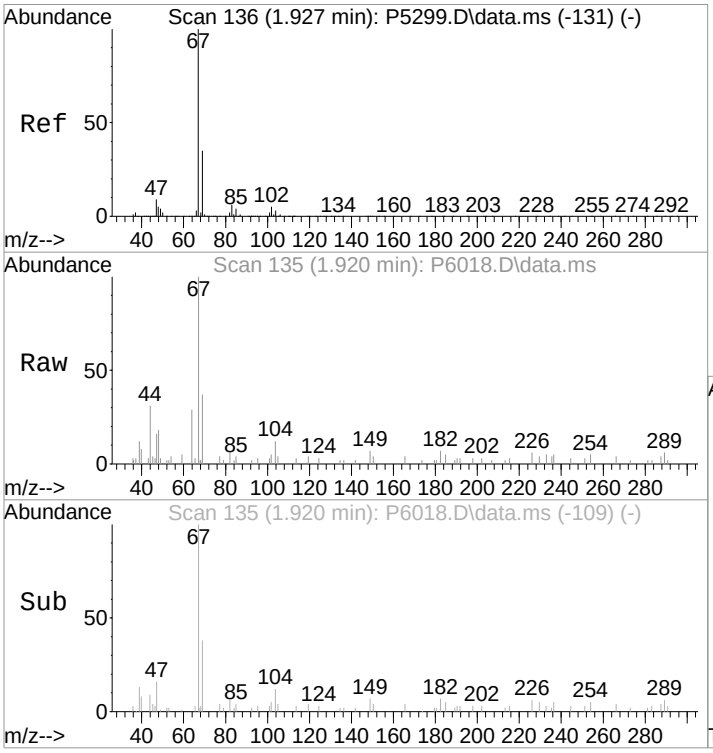


#4
Vinyl Chloride
Concen: 16.60 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 62 Resp: 103455

Ion	Ratio	Lower	Upper
62	100		
64	37.7	13.1	53.1

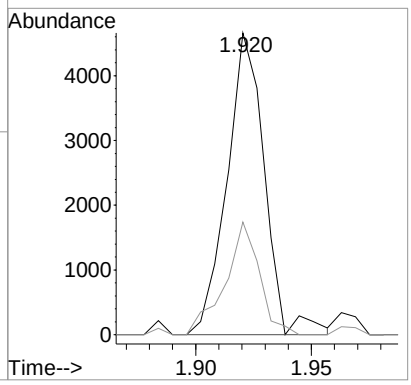


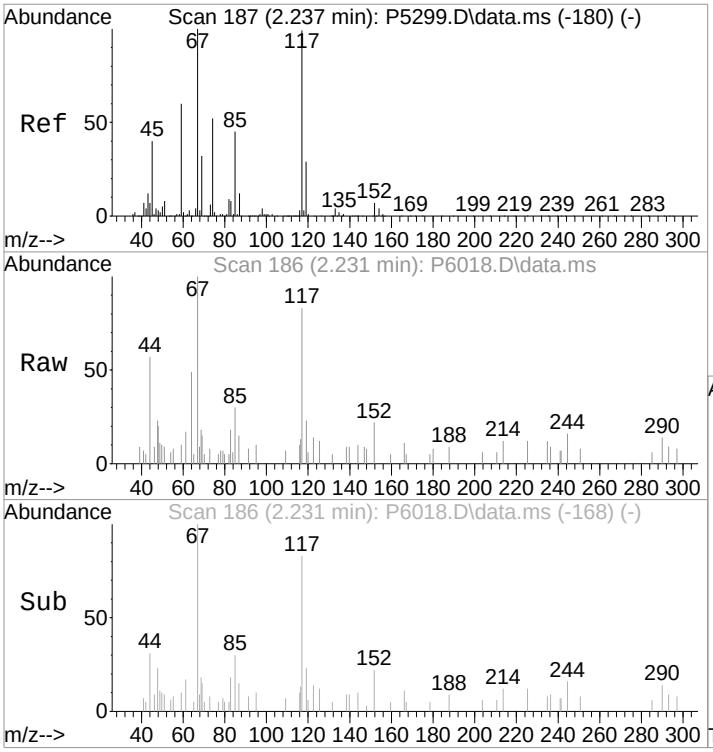


#7
Freon 21
Concen: 0.64 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 67 Resp: 5269

Ion	Ratio	Lower	Upper
67	100		
69	37.3	14.4	54.4

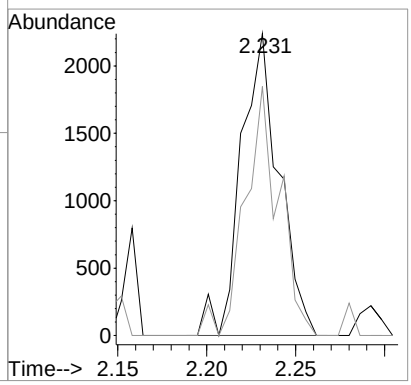


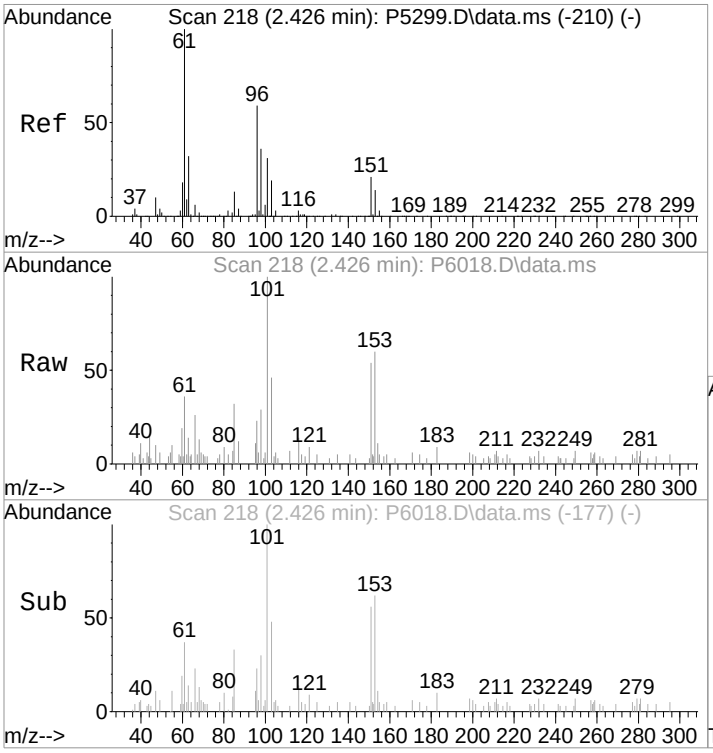


#10
Freon 123a
Concen: 0.66 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 67 Resp: 3328

Ion	Ratio	Lower	Upper
67	100		
117	82.5	78.8	118.8

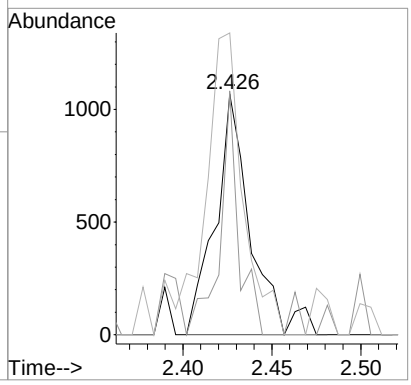


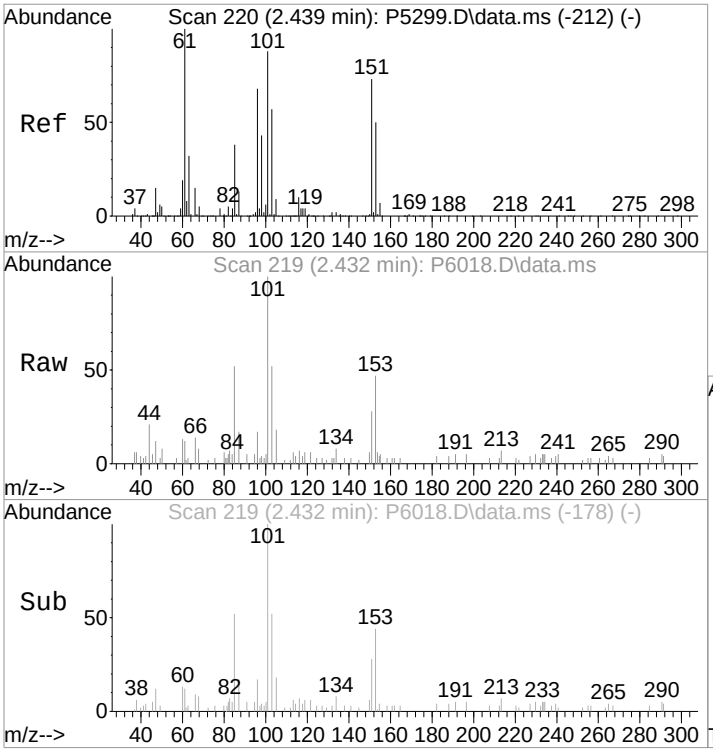


#13
1,1-Diclethene
Concen: 0.27 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 96 Resp: 1486

Ion	Ratio	Lower	Upper
96	100		
98	101.2	41.8	81.8#
61	125.5	150.1	190.1#

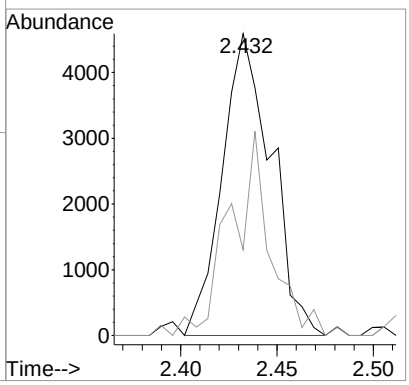


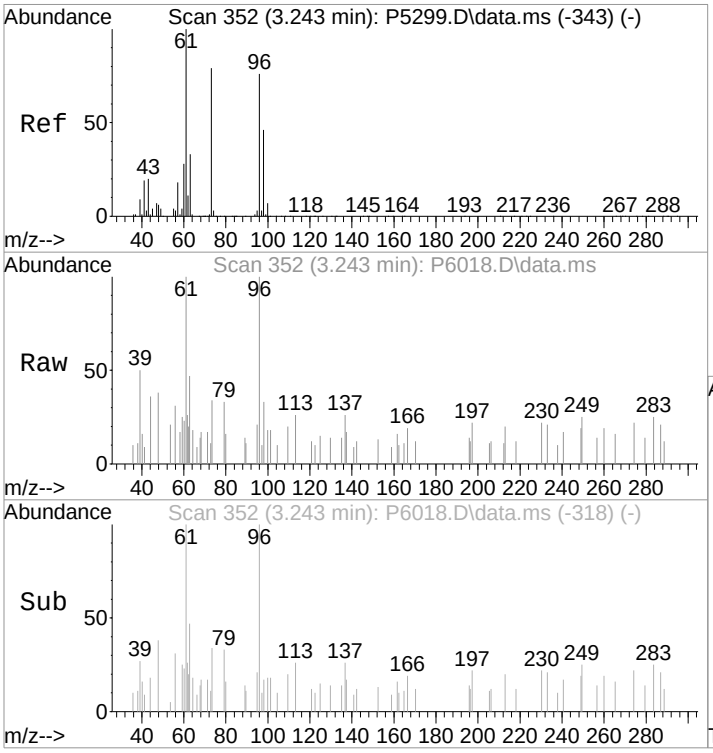


#14
Freon 113
Concen: 1.41 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion:101 Resp: 8176

Ion	Ratio	Lower	Upper
101	100		
151	28.4	62.6	102.6#

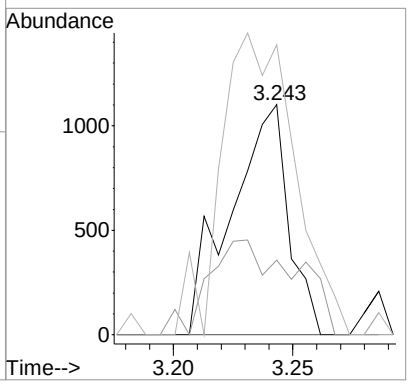


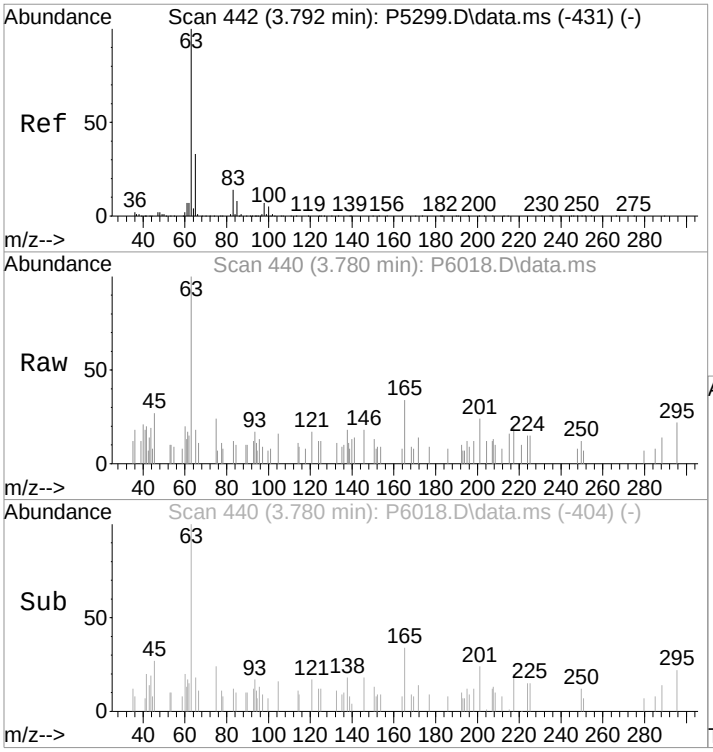


#26
trans-1,2-Dichloroethene
Concen: 0.30 ppb m
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 96 Resp: 1854

Ion	Ratio	Lower	Upper
96	100		
98	32.5	41.0	81.0#
61	99.8	112.4	152.4#

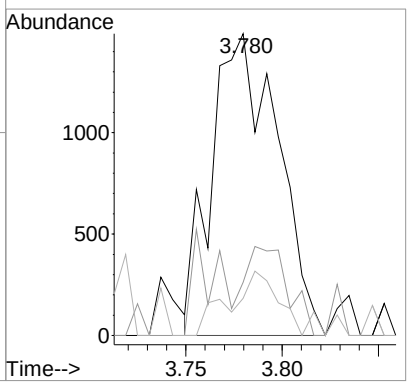


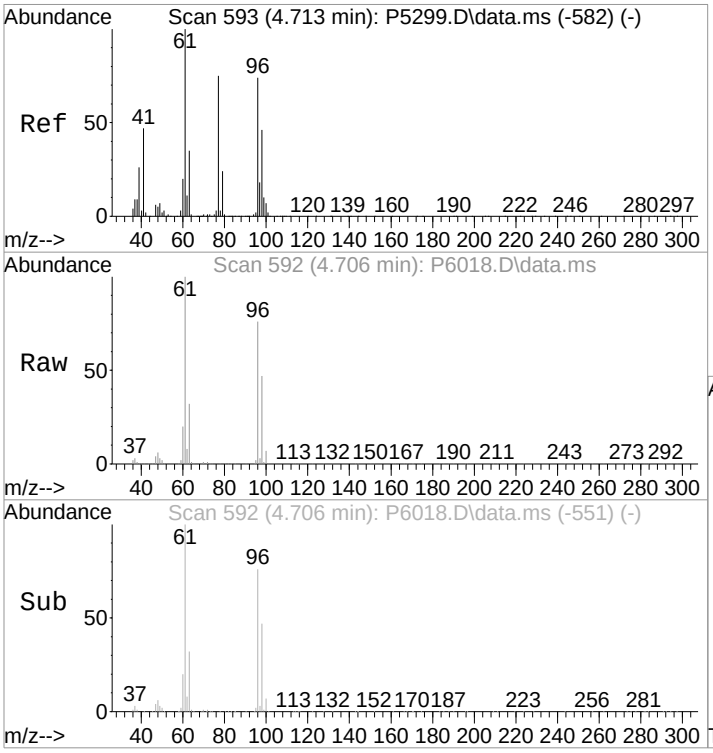


#28
1,1-Diclethane
Concen: 0.35 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 63 Resp: 3569

Ion	Ratio	Lower	Upper
63	100		
65	17.6	12.9	52.9
83	12.3	0.0	33.5

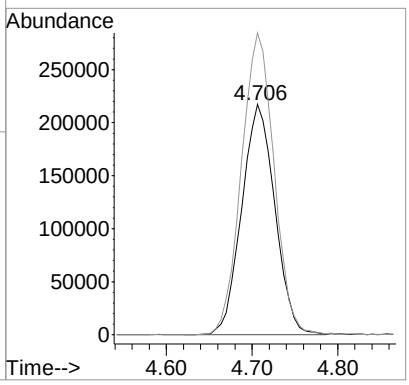


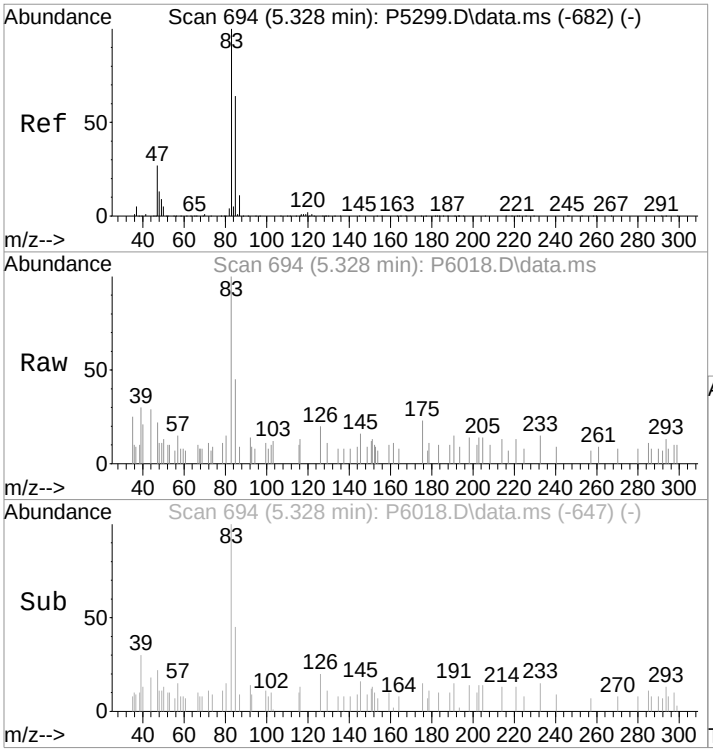


#34
cis-1,2-Dichloroethene
Concen: 93.17 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 96 Resp: 585549

Ion	Ratio	Lower	Upper
96	100		
61	131.0	114.6	154.6

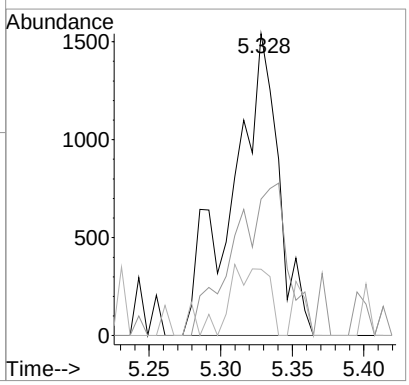


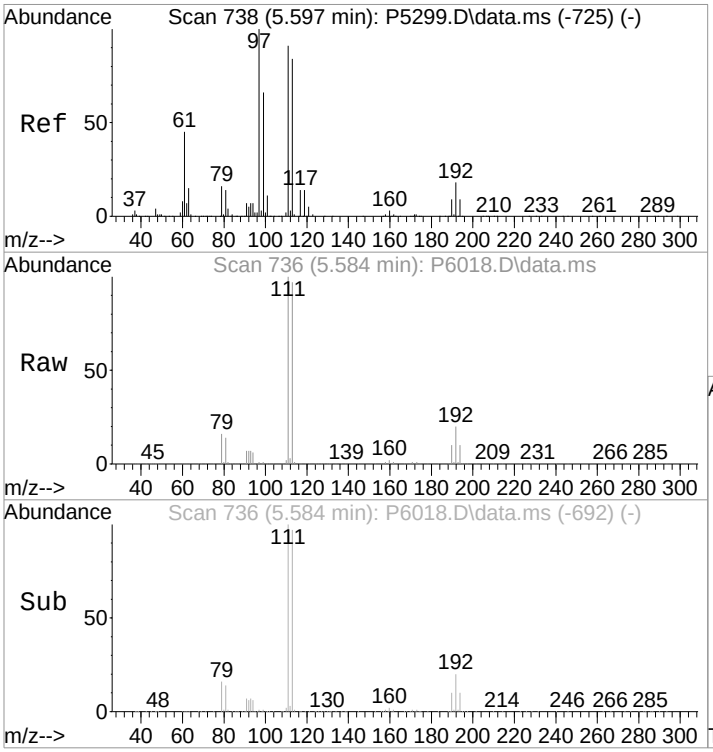


#40
Chloroform
Concen: 0.35 ppb m
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 83 Resp: 3467

Ion	Ratio	Lower	Upper
83	100		
85	45.2	44.1	84.1
47	22.0	7.4	47.4

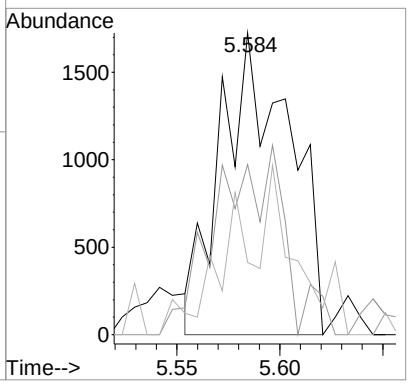


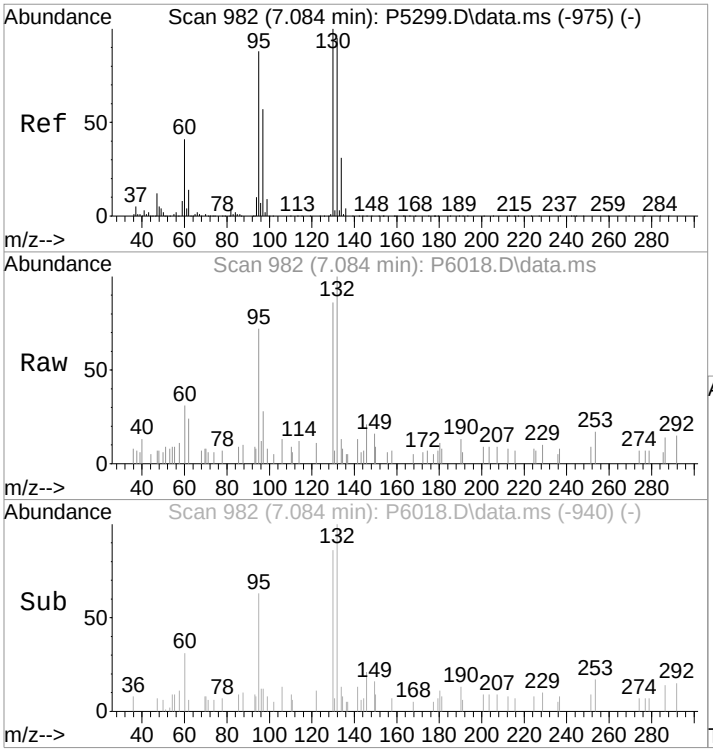


#41
1,1,1-Trichloroethane
Concen: 0.44 ppb m
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion: 97 Resp: 4017

Ion	Ratio	Lower	Upper
97	100		
99	56.4	46.2	86.2
61	24.0	25.3	65.3#

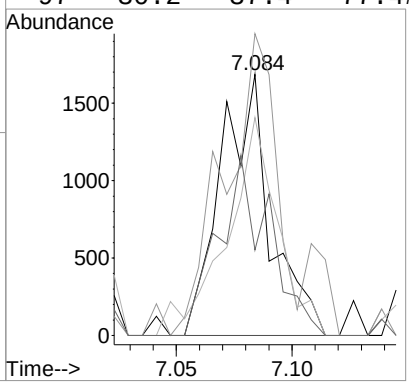




#54
Trichloroethene
Concen: 0.38 ppb
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P6018.D
Acq: 27 Oct 2016 8:23 pm

Tgt Ion:130 Resp: 2524

Ion	Ratio	Lower	Upper
130	100		
132	106.8	75.2	115.2
95	77.1	68.1	108.1
97	30.2	37.4	77.4#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5959.D
Acq On : 26 Oct 2016 1:22 pm
Operator : K.Ruest
Sample : R1611185-013|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:34:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

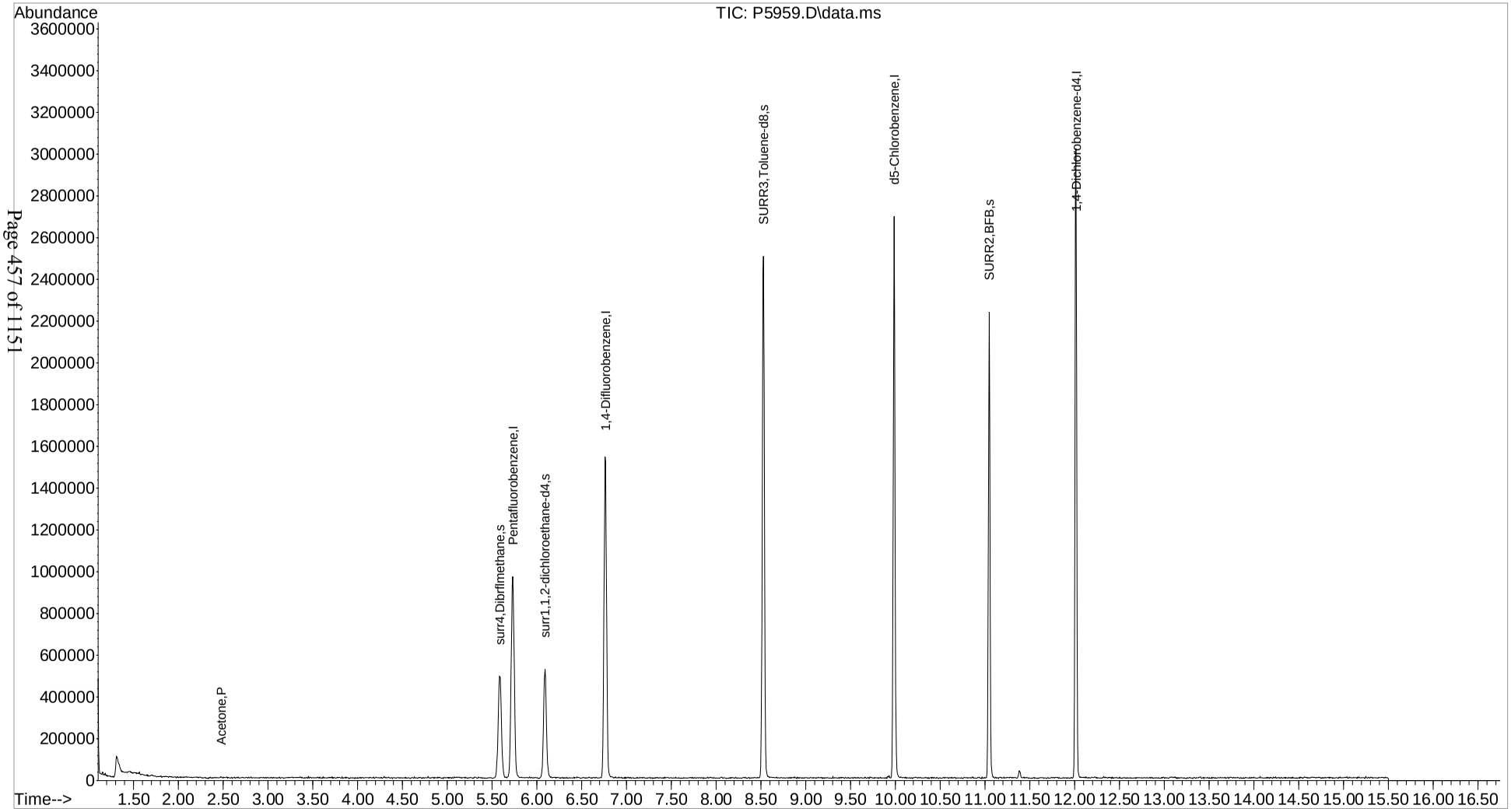
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	799324	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1314746	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1196491	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	615231	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.584	113	383052	54.59	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.18%			
48) surr1,1,2-dichloroetha...	6.090	65	411418	51.61	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.22%			
65) SURR3,Toluene-d8	8.529	98	1548096	53.84	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.68%			
70) SURR2,BFB	11.047	95	569519	50.77	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.54%			
Target Compounds						Qvalue
15) Acetone	2.475	43	1821	1.40	ppb	58

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

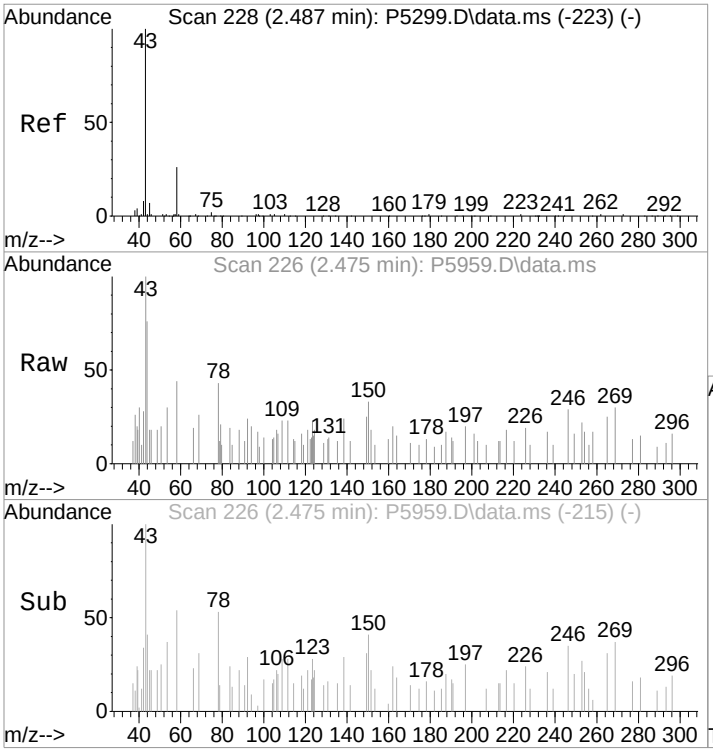
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5959.D
Acq On : 26 Oct 2016 1:22 pm
Operator : K.Ruest
Sample : R1611185-013|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:34:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



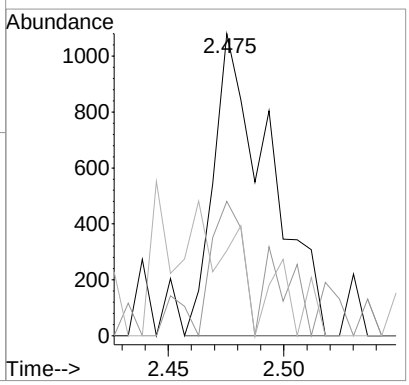
1st 10/26/16
2nd 10/27/16



#15
Acetone
Concen: 1.40 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P5959.D
Acq: 26 Oct 2016 1:22 pm

Tgt Ion: 43 Resp: 1821

Ion	Ratio	Lower	Upper
43	100		
58	44.5	5.3	45.3
42	28.1	0.0	28.7



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5966.D
Acq On : 26 Oct 2016 4:54 pm
Operator : K.Ruest
Sample : R1611185-014|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 10:49:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

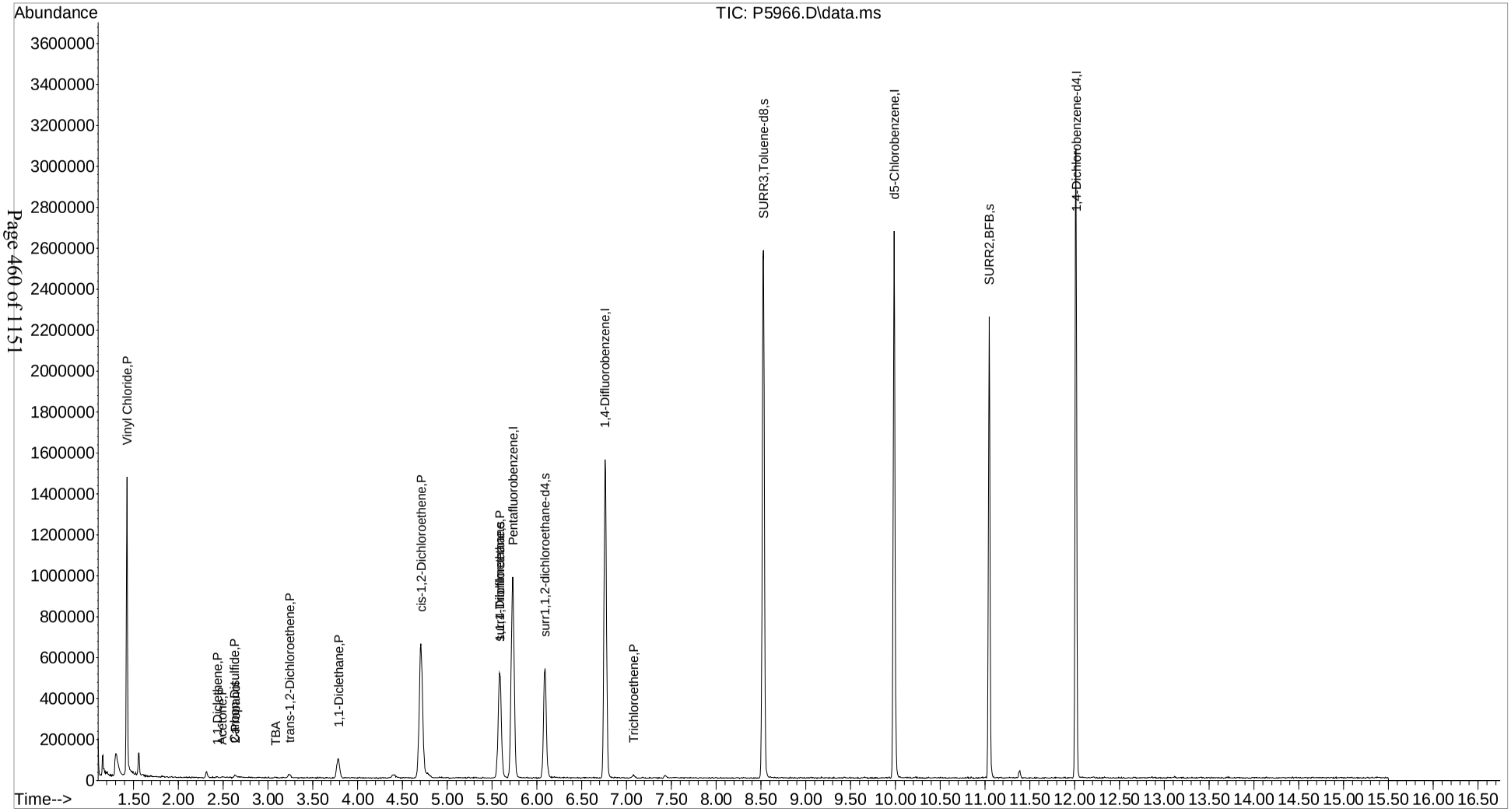
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	806096	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1311255	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1184243	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	607866	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	387639	55.39	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.78%				
48) surr1,1,2-dichloroetha...	6.090	65	421834	53.06	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.12%				
65) SURR3,Toluene-d8	8.529	98	1593704	55.57	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.14%				
70) SURR2,BFB	11.047	95	573468	51.26	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.52%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	787085	123.42	ppb		98
13) 1,1-Diclethene	2.432	96	1286	0.23	ppb	#	83
15) Acetone	2.487	43	2592	1.97	ppb		93
16) 2-Propanol	2.634	45	11779	42.01	ppb		91
18) Carbon Disulfide	2.627	76	6988	0.40	ppb		97
23) TBA	3.085	59	855	1.92	ppb		64
26) trans-1,2-Dichloroethene	3.243	96	7358	1.17	ppb		94
28) 1,1-Diclethane	3.786	63	104592	9.99	ppb		90
34) cis-1,2-Dichloroethene	4.706	96	402611	62.59	ppb		97
41) 1,1,1-Trichloroethane	5.584	97	9197	0.98	ppb	#	79
54) Trichloroethene	7.078	130	5856	0.85	ppb	#	66

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

Quantitation Report (QT Reviewed)

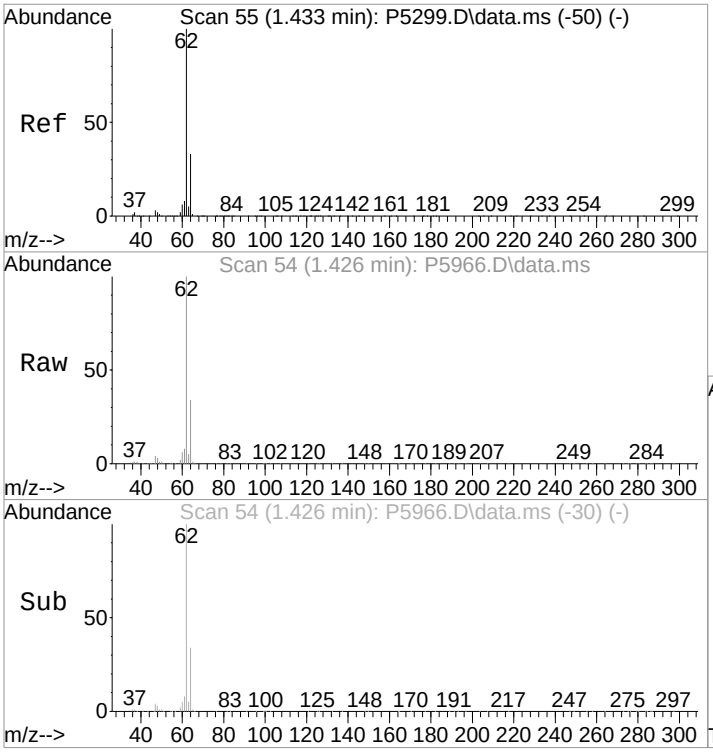
Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5966.D
Acq On : 26 Oct 2016 4:54 pm
Operator : K.Ruest
Sample : R1611185-014|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 10:49:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Page 460 of 1151

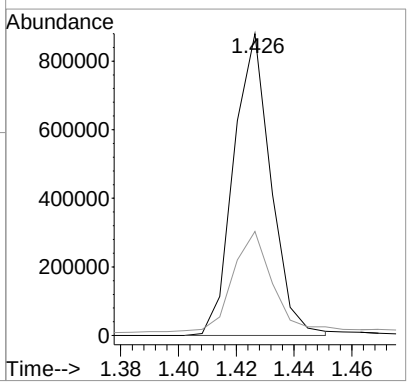
1st 10/27/16
2nd 10/27/16

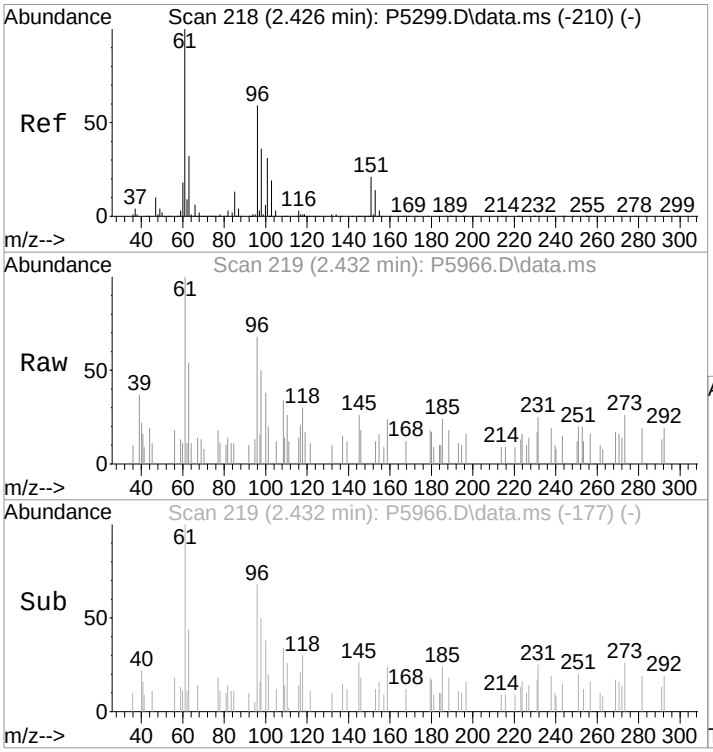


#4
Vinyl Chloride
Concen: 123.42 ppb
RT: 1.426 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 62 Resp: 787085

Ion	Ratio	Lower	Upper
62	100		
64	34.4	13.1	53.1

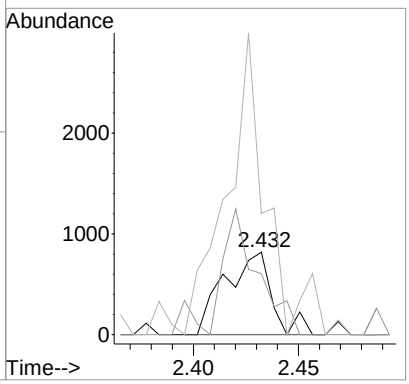


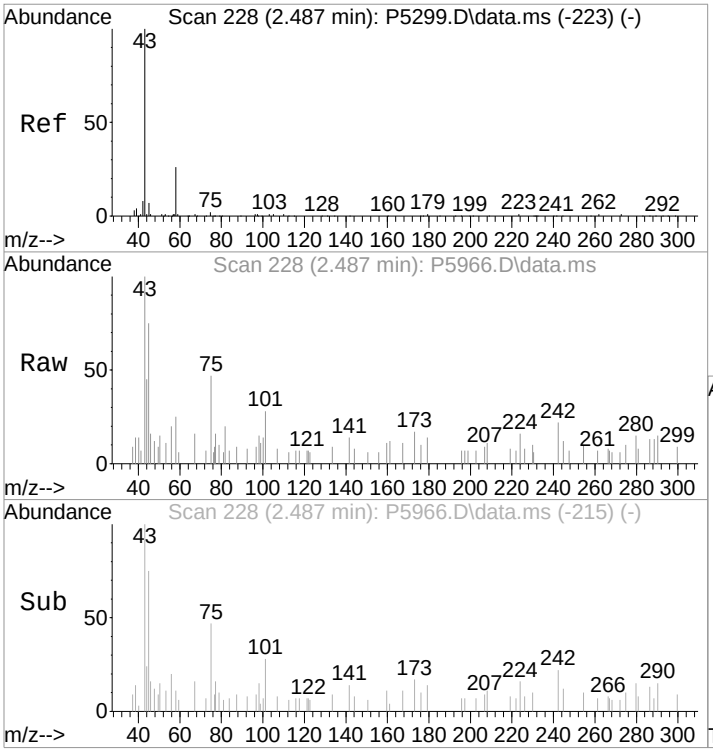


#13
1,1-Diclethene
Concen: 0.23 ppb
RT: 2.432 min Scan# 219
Delta R.T. 0.006 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 96 Resp: 1286

Ion	Ratio	Lower	Upper
96	100		
98	74.1	41.8	81.8
61	146.9	150.1	190.1#

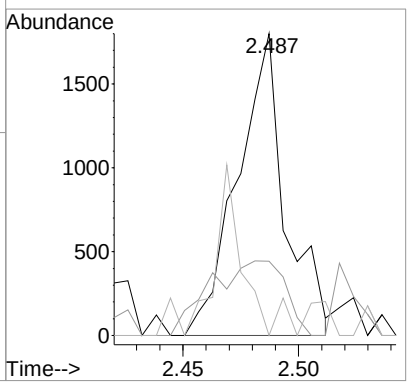


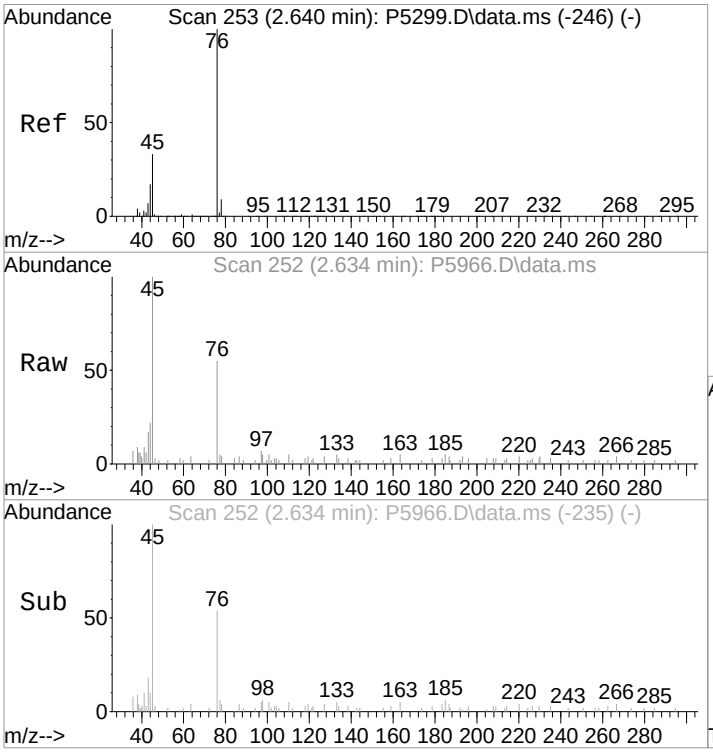


#15
Acetone
Concen: 1.97 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 43 Resp: 2592

Ion	Ratio	Lower	Upper
43	100		
58	24.7	5.3	45.3
42	0.0	0.0	28.7

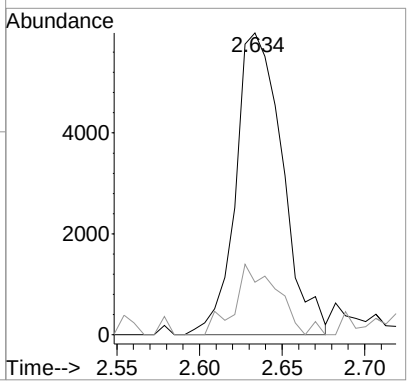


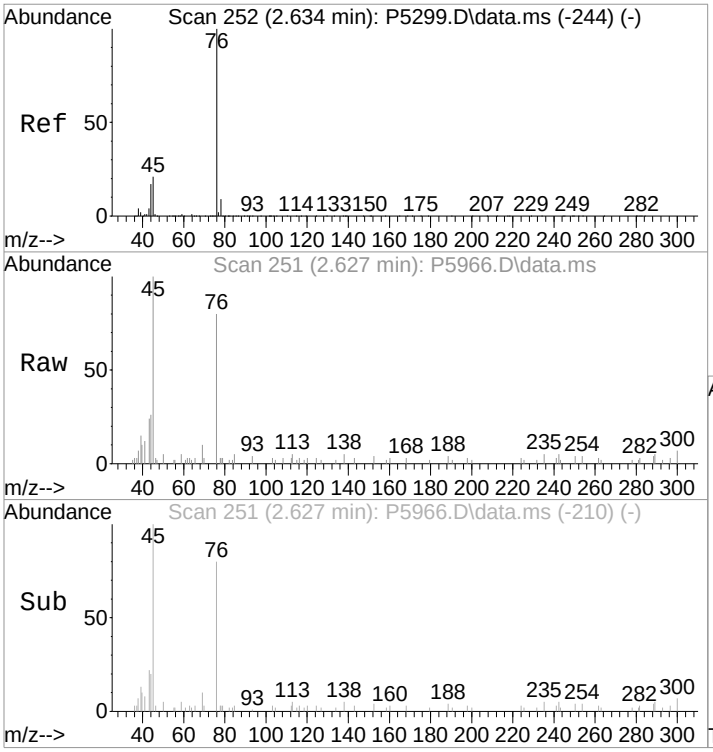


#16
2-Propanol
Concen: 42.01 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.006 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 45 Resp: 11779

Ion	Ratio	Lower	Upper
45	100		
43	17.4	1.6	41.6

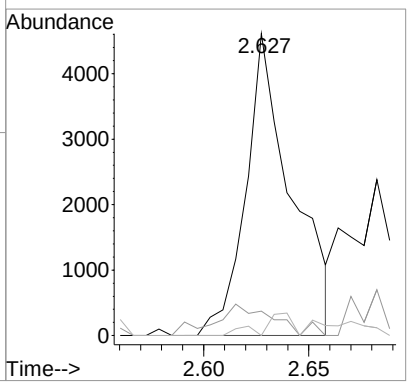


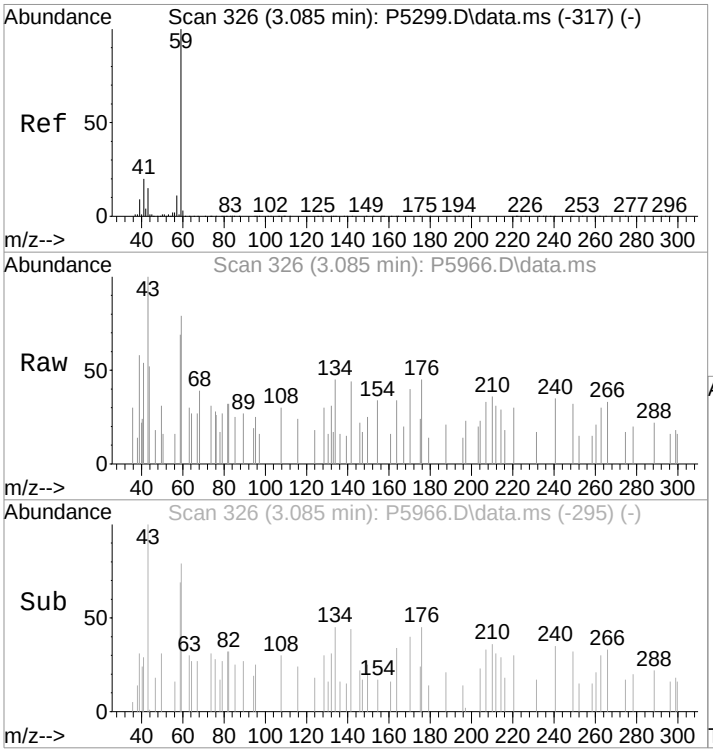


#18
Carbon Disulfide
Concen: 0.40 ppb
RT: 2.627 min Scan# 251
Delta R.T. -0.006 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 76 Resp: 6988

Ion	Ratio	Lower	Upper
76	100		
78	8.1	0.0	29.3
77	3.7	0.0	22.5

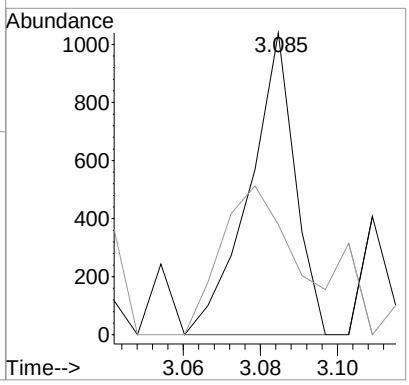


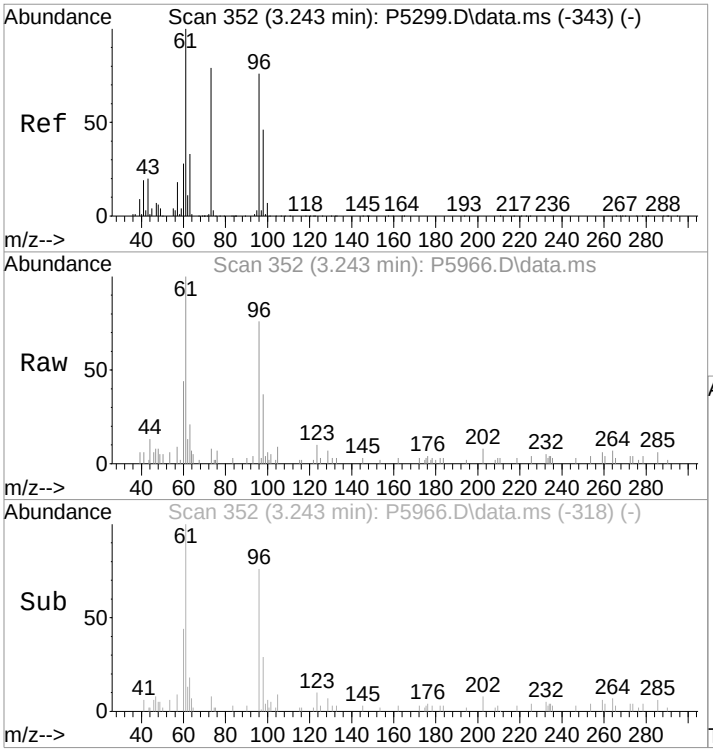


#23
TBA
Concen: 1.92 ppb
RT: 3.085 min Scan# 326
Delta R.T. -0.000 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 59 Resp: 855

Ion	Ratio	Lower	Upper
59	100		
41	36.5	0.1	40.1

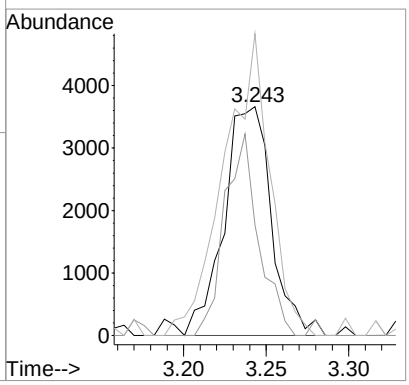


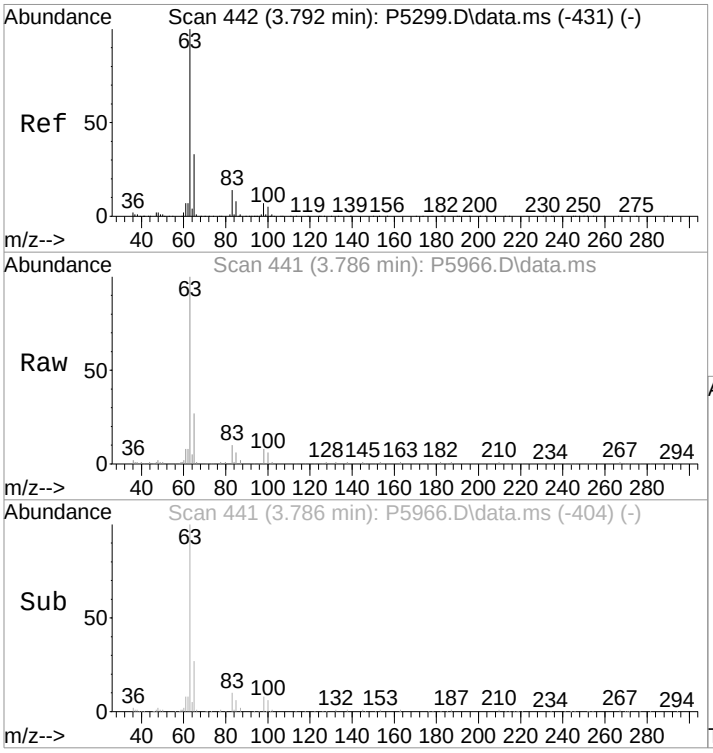


#26
trans-1,2-Dichloroethene
Concen: 1.17 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 96 Resp: 7358

Ion	Ratio	Lower	Upper
96	100		
98	48.4	41.0	81.0
61	131.9	112.4	152.4

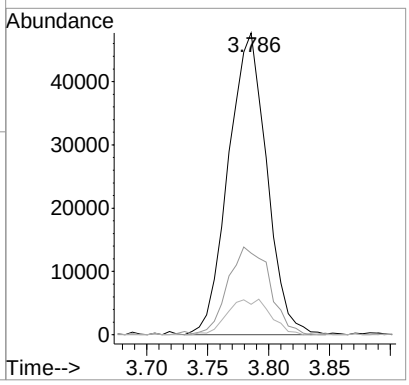


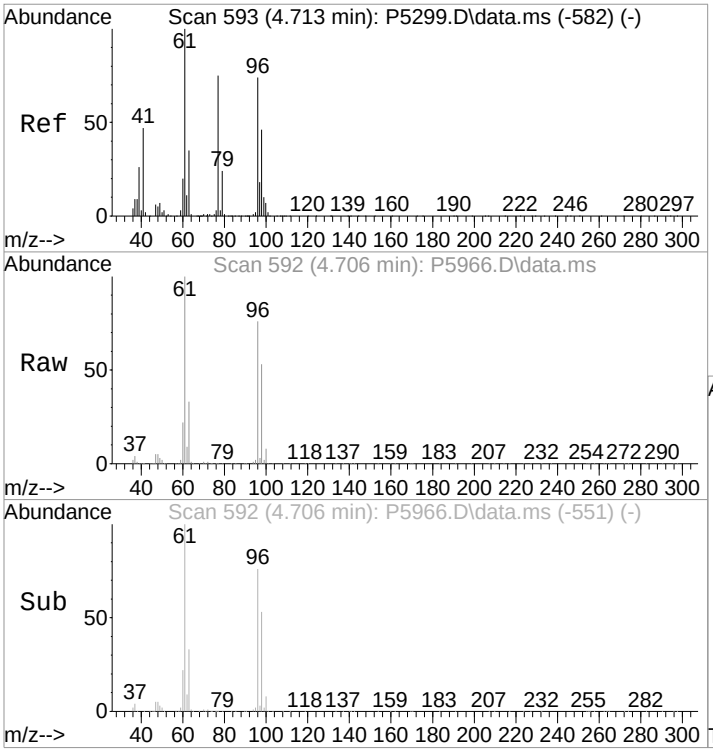


#28
1,1-Diclethane
Concen: 9.99 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 63 Resp: 104592

Ion	Ratio	Lower	Upper
63	100		
65	27.0	12.9	52.9
83	10.1	0.0	33.5

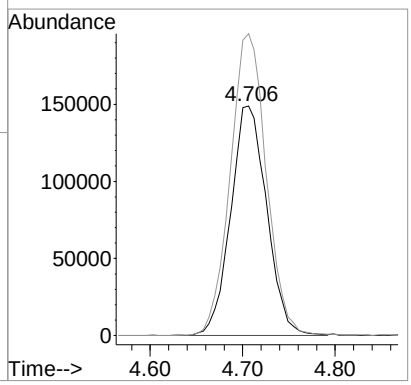


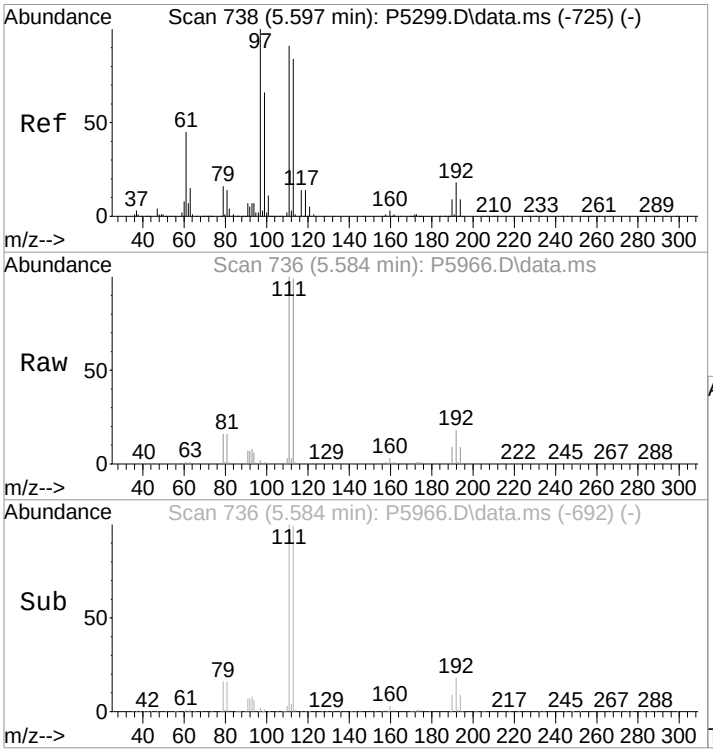


#34
cis-1,2-Dichloroethene
Concen: 62.59 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 96 Resp: 402611

Ion	Ratio	Lower	Upper
96	100		
61	131.5	114.6	154.6

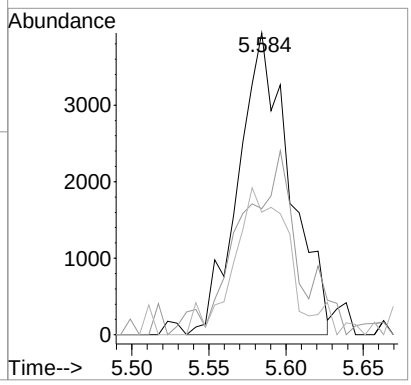


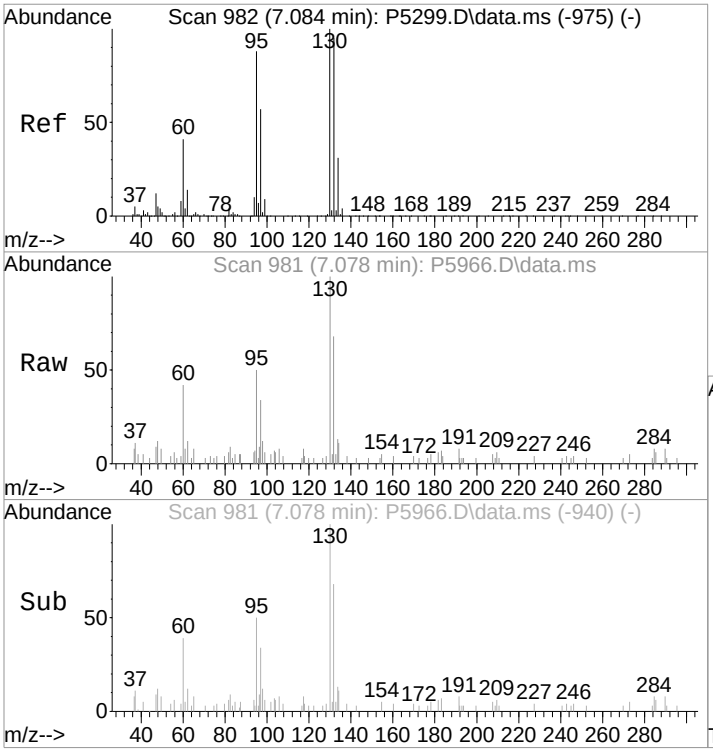


#41
1,1,1-Trichloroethane
Concen: 0.98 ppb
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion: 97 Resp: 9197

Ion	Ratio	Lower	Upper
97	100		
99	41.8	46.2	86.2#
61	40.6	25.3	65.3

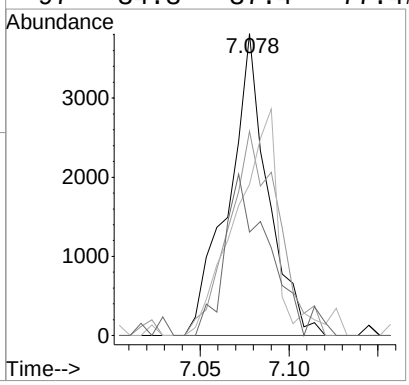




#54
Trichloroethene
Concen: 0.85 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5966.D
Acq: 26 Oct 2016 4:54 pm

Tgt Ion:130 Resp: 5856

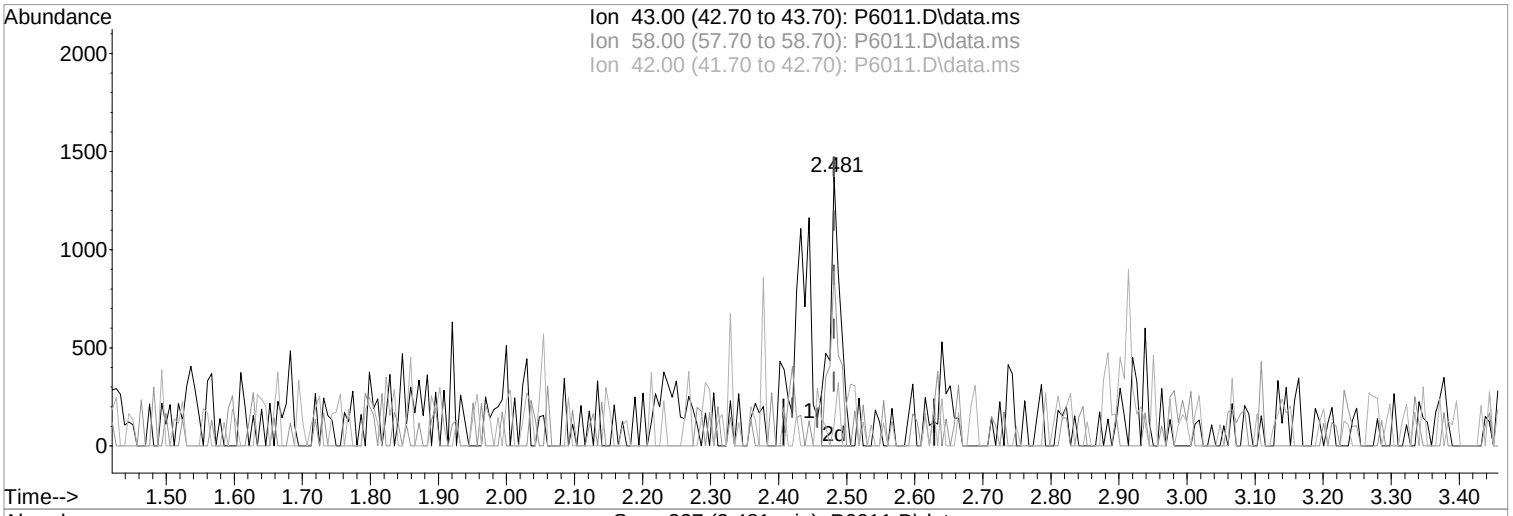
Ion	Ratio	Lower	Upper
130	100		
132	67.6	75.2	115.2#
95	50.1	68.1	108.1#
97	34.3	37.4	77.4#

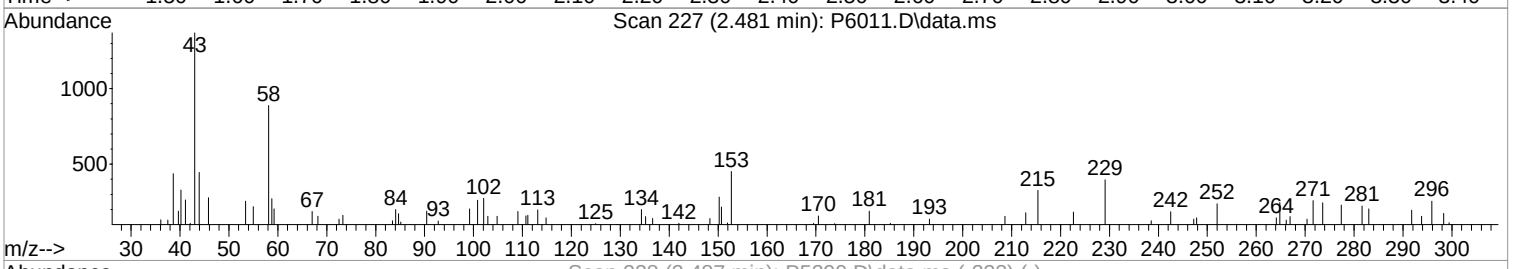


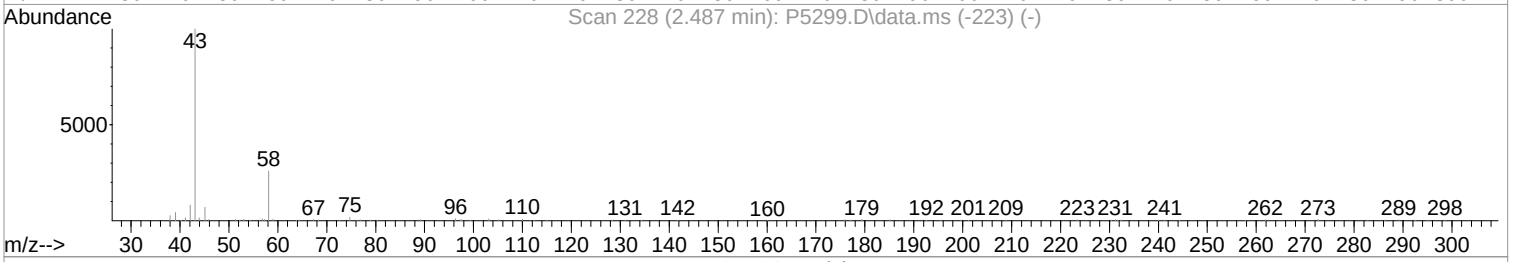
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6011.D
Acq On : 27 Oct 2016 4:51 pm
Operator : K.Ruest
Sample : R1611185-015|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 17:08:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6011.D\data.ms

(15) Acetone (P)

2.481min (-0.000) 1.11 ppb m

response 1433

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	64.89#
42.00	8.70	7.88
0.00	0.00	0.00

Manual Integration:

After

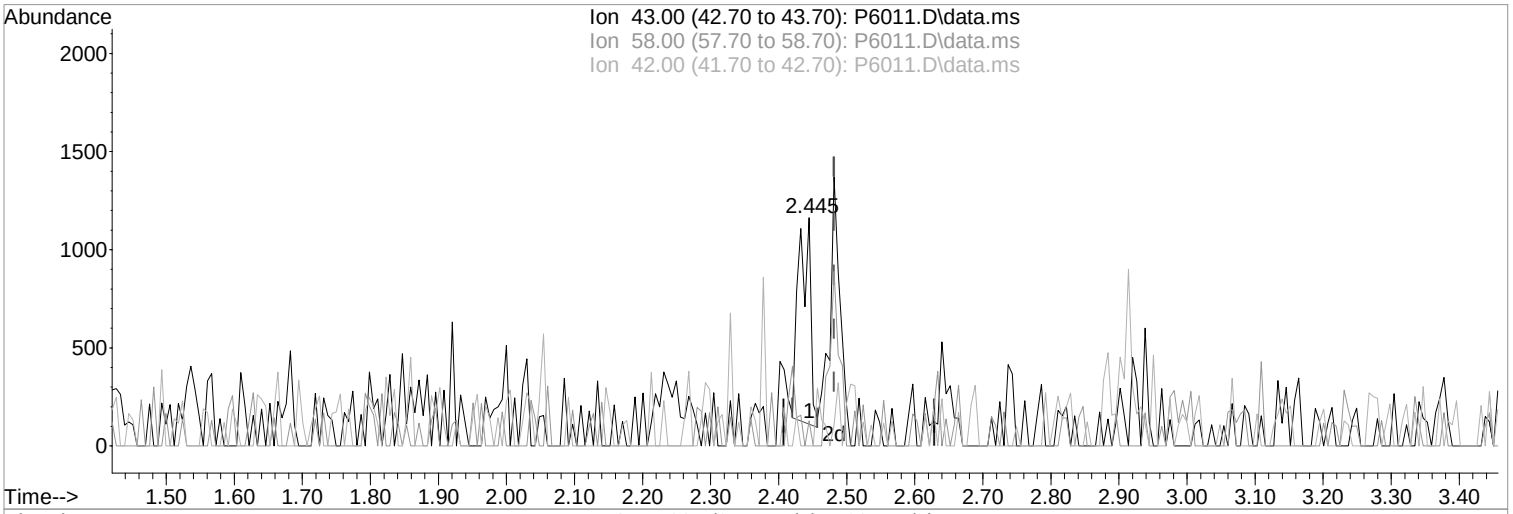
Peak not found.

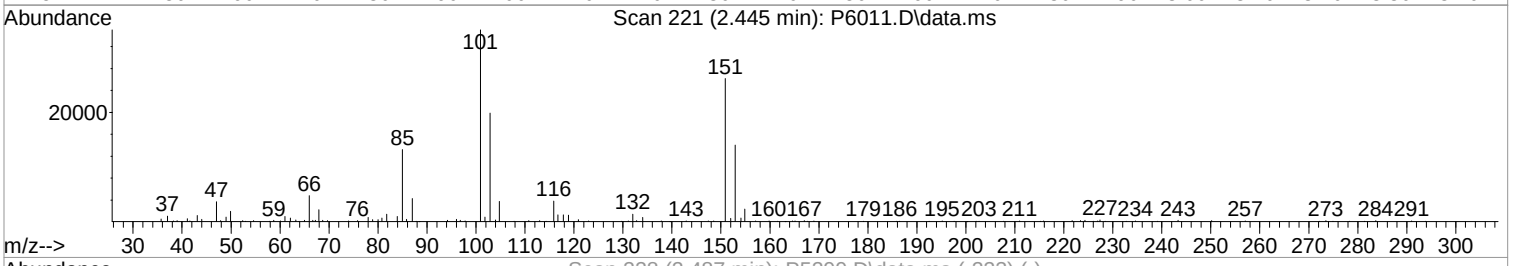
10/27/16

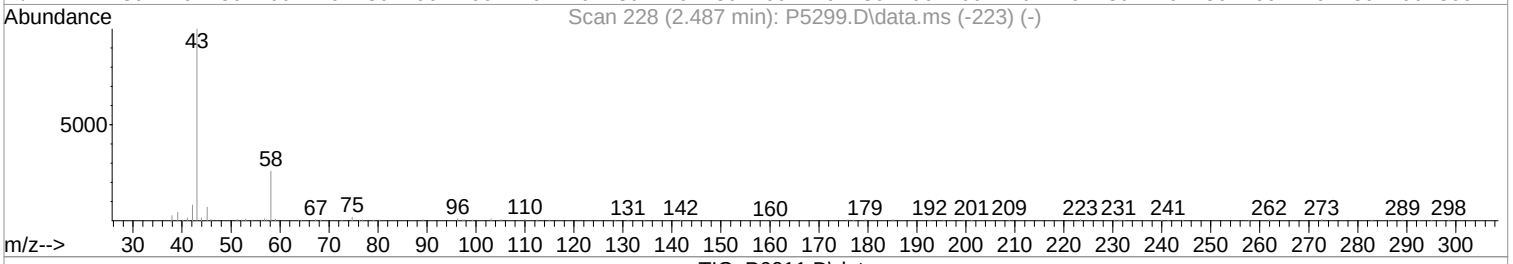
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6011.D
Acq On : 27 Oct 2016 4:51 pm
Operator : K.Ruest
Sample : R1611185-015|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 17:08:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6011.D\data.ms

(15) Acetone (P)

2.445min (-0.037) 0.97 ppb

response 1247

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	35.08
42.00	8.70	0.00
0.00	0.00	0.00

Manual Integration:

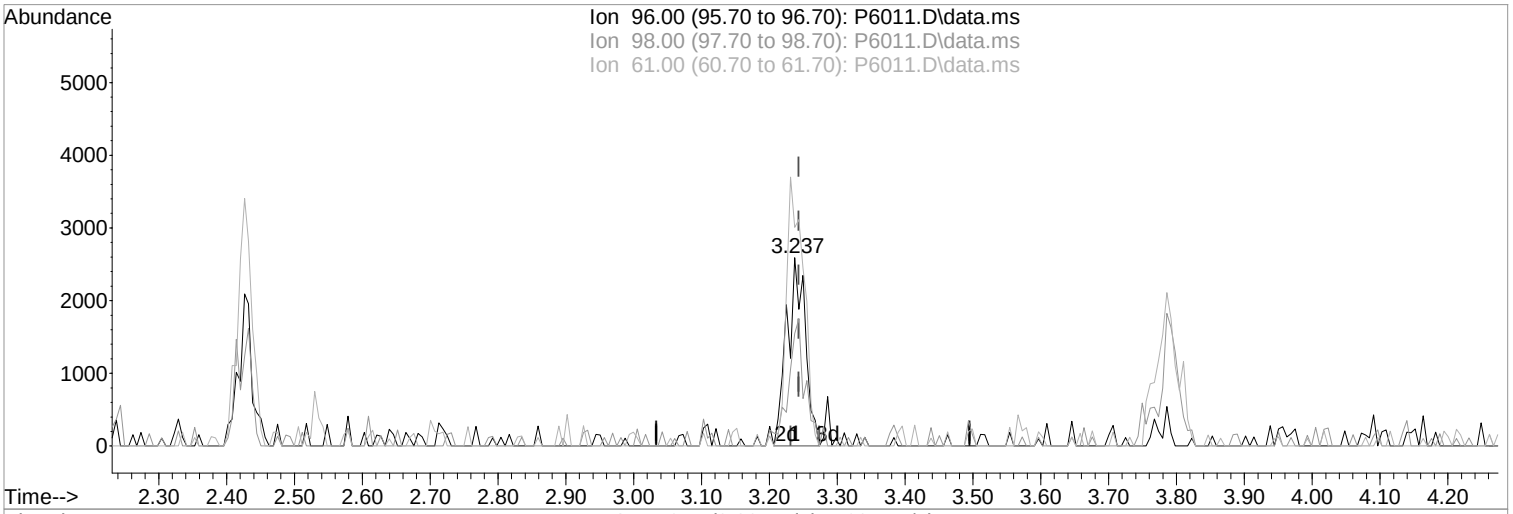
Before

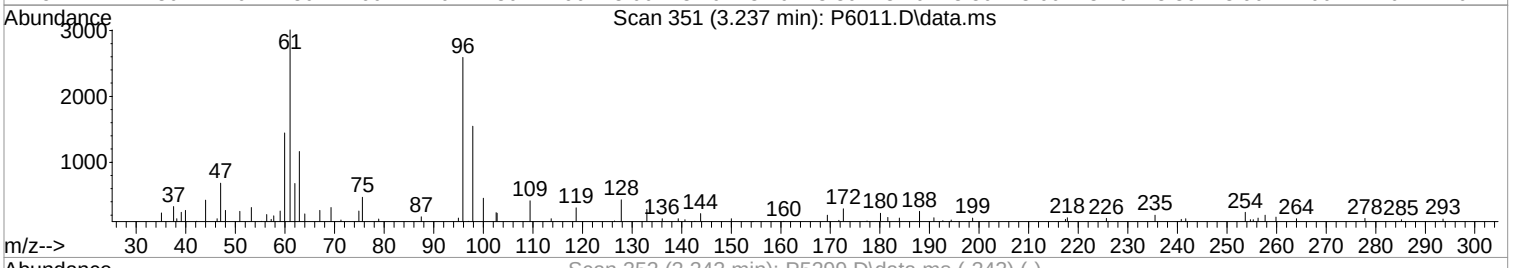
10/27/16

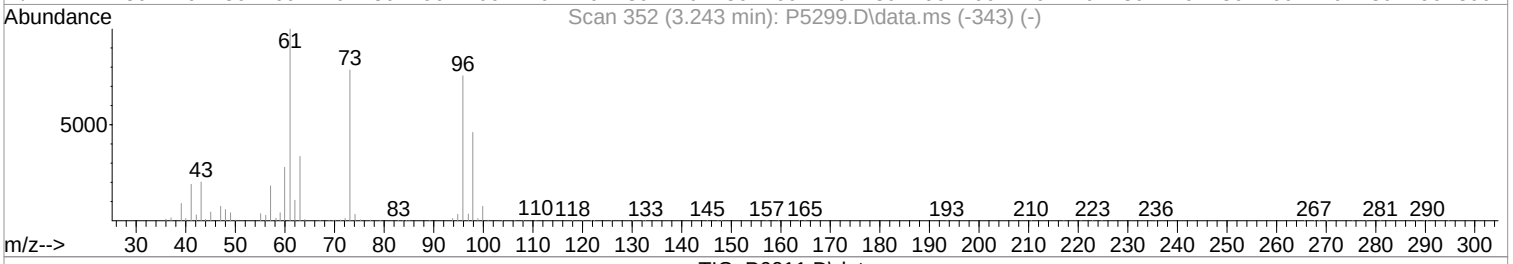
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6011.D
Acq On : 27 Oct 2016 4:51 pm
Operator : K.Ruest
Sample : R1611185-015|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 17:08:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6011.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (-0.006) 0.79 ppb m

response 4890

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	59.75
61.00	132.40	116.17
0.00	0.00	0.00

Manual Integration:

After

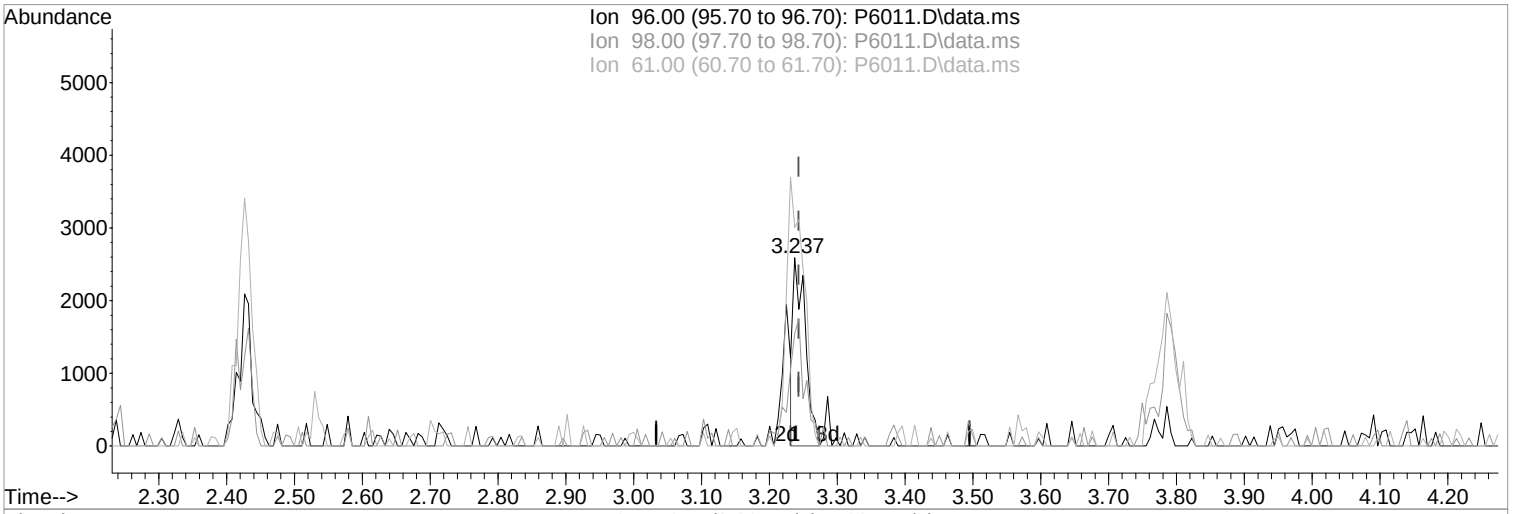
Split Peak

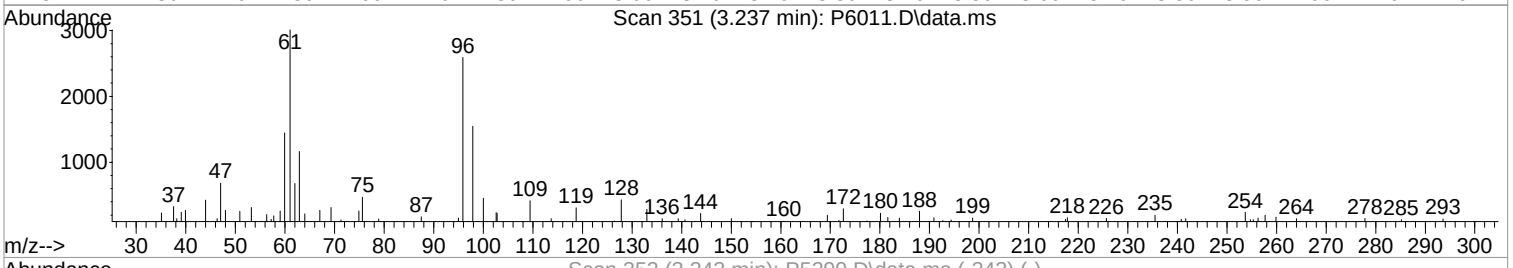
10/27/16

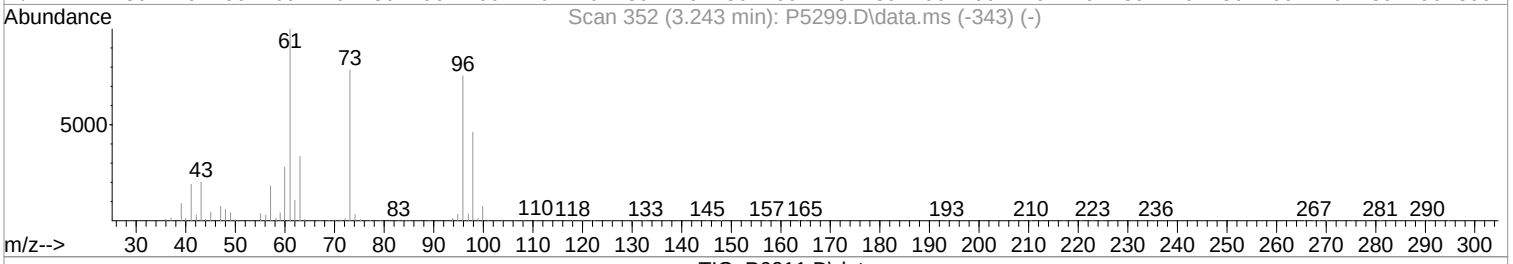
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6011.D
Acq On : 27 Oct 2016 4:51 pm
Operator : K.Ruest
Sample : R1611185-015|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 17:08:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6011.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.237min (-0.006) 0.52 ppb

response 3246

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	59.75
61.00	132.40	116.17
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6011.D
Acq On : 27 Oct 2016 4:51 pm
Operator : K.Ruest
Sample : R1611185-015|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 17:42:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

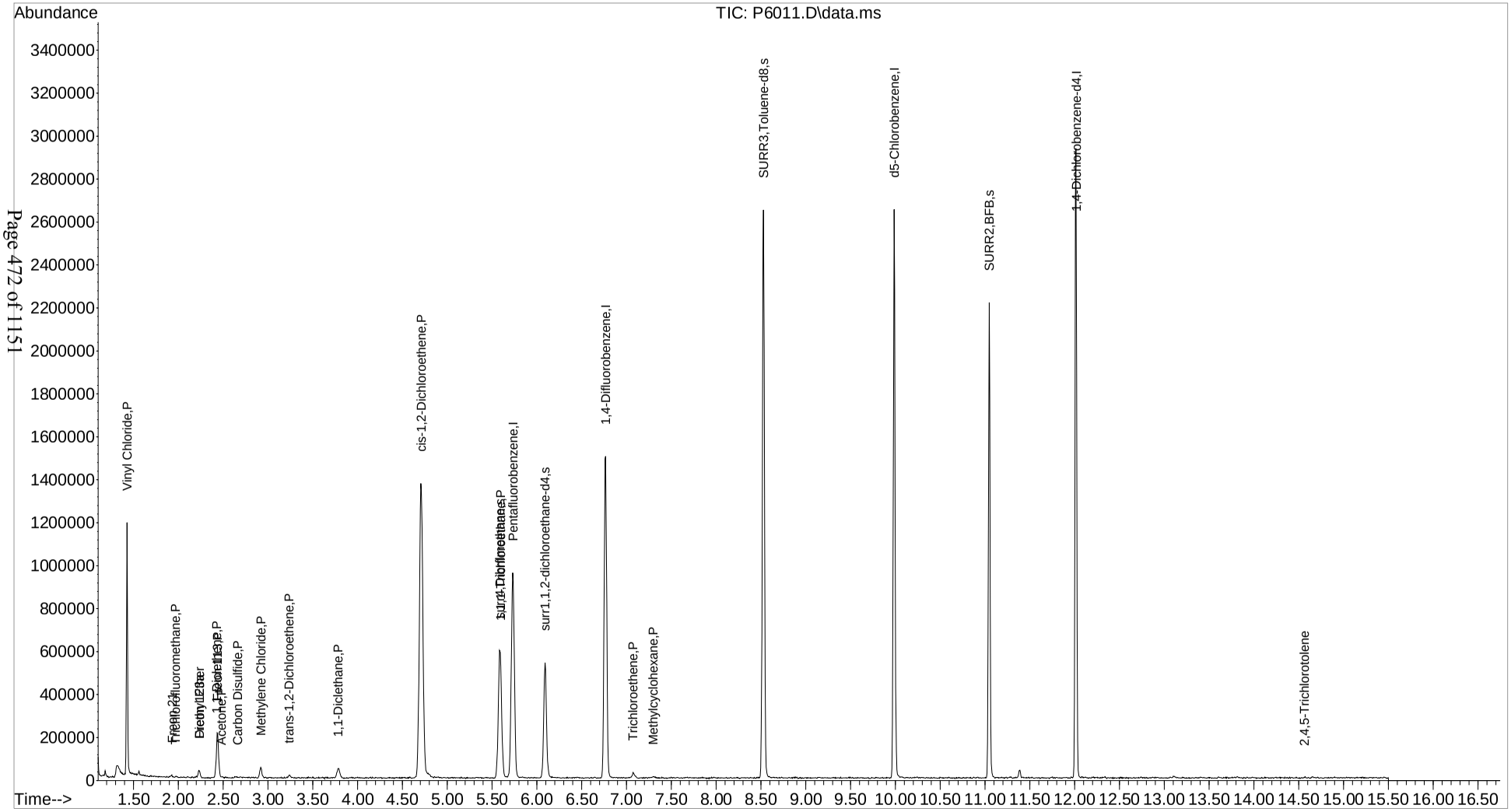
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	791981	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1287021	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1185158	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	593857	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	384395	55.96	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 111.92%				
48) surr1,1,2-dichloroetha...	6.090	65	412319	52.84	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.68%				
65) SURR3,Toluene-d8	8.529	98	1568290	55.72	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.44%				
70) SURR2,BFB	11.047	95	577849	52.62	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.24%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	615659	98.26	ppb		99
7) Freon 21	1.926	67	5575	0.67	ppb		81
8) Trichlorofluoromethane	1.969	101	1846	0.25	ppb		92
9) Diethyl Ether	2.231	59	810	0.25	ppb	#	80
10) Freon 123a	2.231	67	11484	2.28	ppb		99
13) 1,1-Diclethene	2.426	96	2993	0.54	ppb		95
14) Freon 113	2.432	101	76450	13.09	ppb		92
15) Acetone	2.481	43	1433m	1.11	ppb		
18) Carbon Disulfide	2.658	76	5161	0.30	ppb		95
22) Methylene Chloride	2.920	84	17993	3.10	ppb	#	81
26) trans-1,2-Dichloroethene	3.237	96	4890m	0.79	ppb		
28) 1,1-Diclethane	3.780	63	47947	4.66	ppb		87
34) cis-1,2-Dichloroethene	4.706	96	865966	137.02	ppb		95
41) 1,1,1-Trichloroethane	5.590	97	93678	10.15	ppb		94
54) Trichloroethene	7.072	130	8694	1.28	ppb	#	63
55) Methylcyclohexane	7.297	55	2100	0.25	ppb	#	43
119) 2,4,5-Trichlorotolene	14.564	159	1177	0.21	ppb	#	41

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

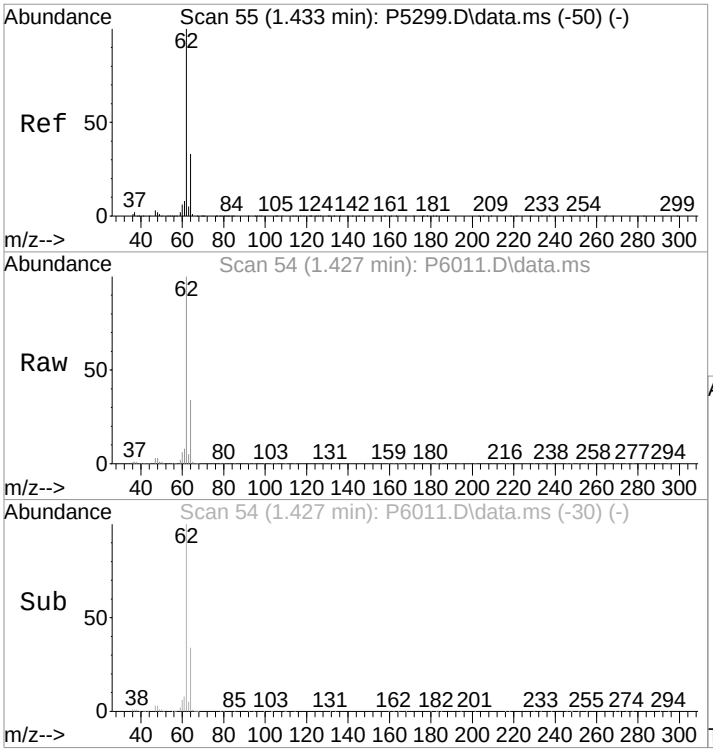
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6011.D
Acq On : 27 Oct 2016 4:51 pm
Operator : K.Ruest
Sample : R1611185-015|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 17:42:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



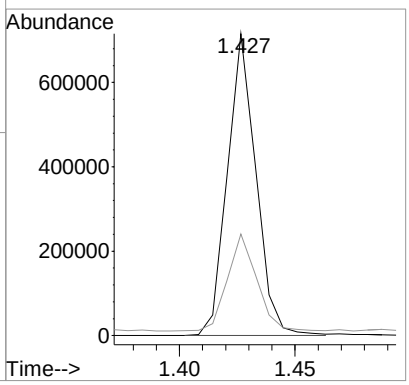
1st 10/28/16
2nd 10/31/16

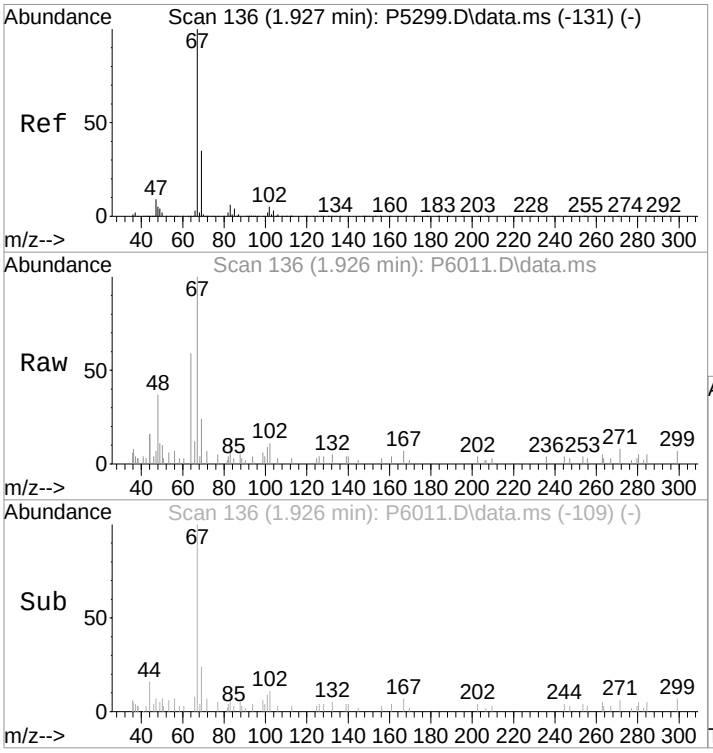


#4
Vinyl Chloride
Concen: 98.26 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 62 Resp: 615659

Ion	Ratio	Lower	Upper
62	100		
64	33.6	13.1	53.1

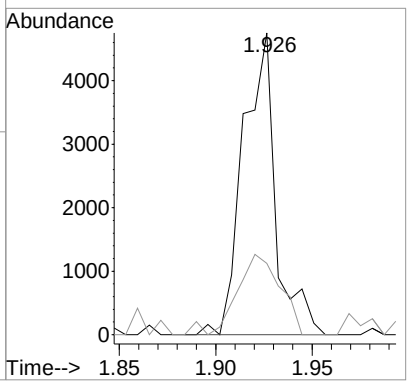


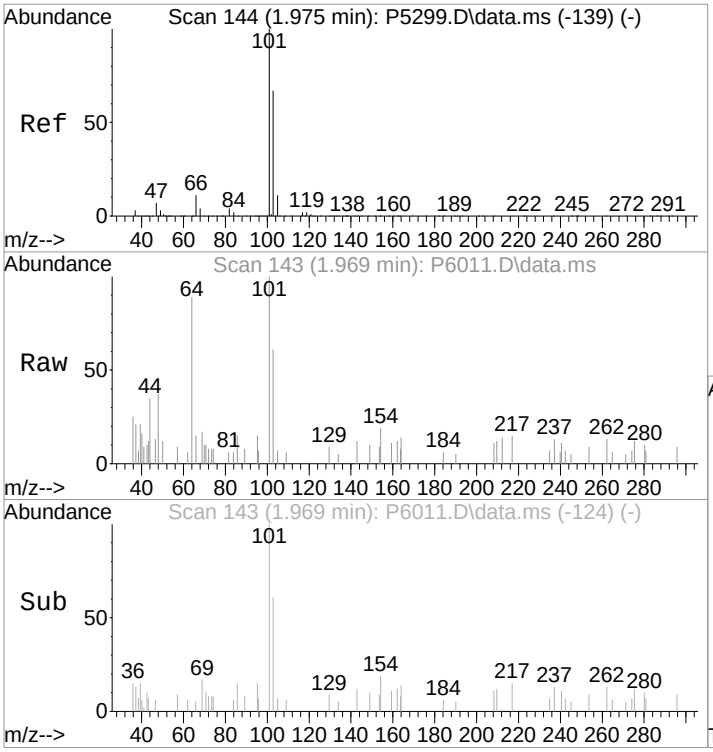


#7
Freon 21
Concen: 0.67 ppb
RT: 1.926 min Scan# 136
Delta R.T. -0.000 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 67 Resp: 5575

Ion	Ratio	Lower	Upper
67	100		
69	23.7	14.4	54.4

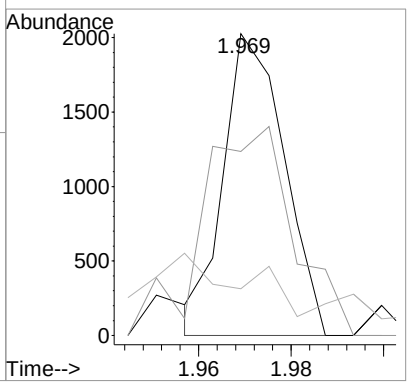


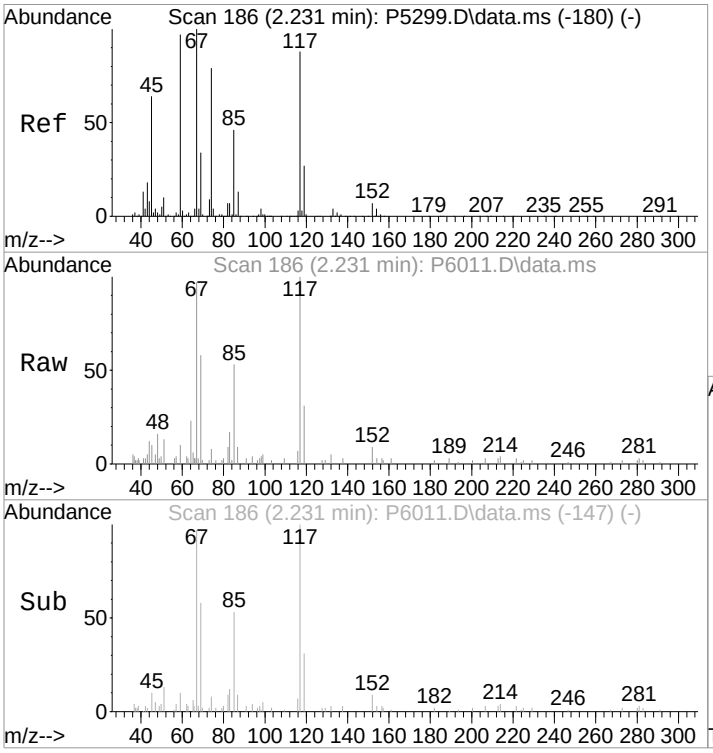


#8
Trichlorofluoromethane
Concen: 0.25 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion:101 Resp: 1846

Ion	Ratio	Lower	Upper
101	100		
103	60.9	47.3	87.3
66	15.5	0.0	31.5

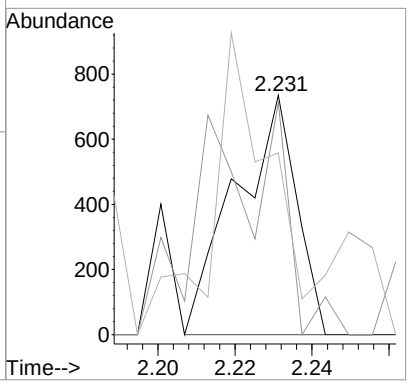


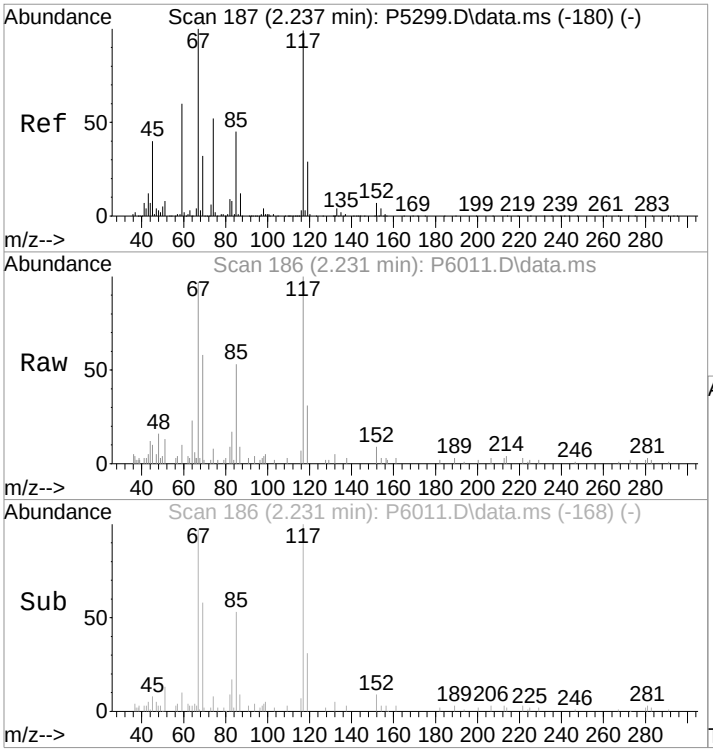


#9
Diethyl Ether
Concen: 0.25 ppb
RT: 2.231 min Scan# 186
Delta R.T. 0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 59 Resp: 810

Ion	Ratio	Lower	Upper
59	100		
45	97.0	47.0	87.0#
74	75.9	61.8	101.8

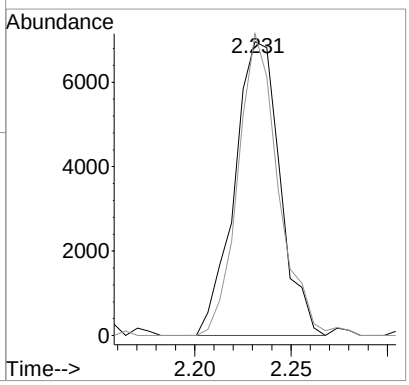


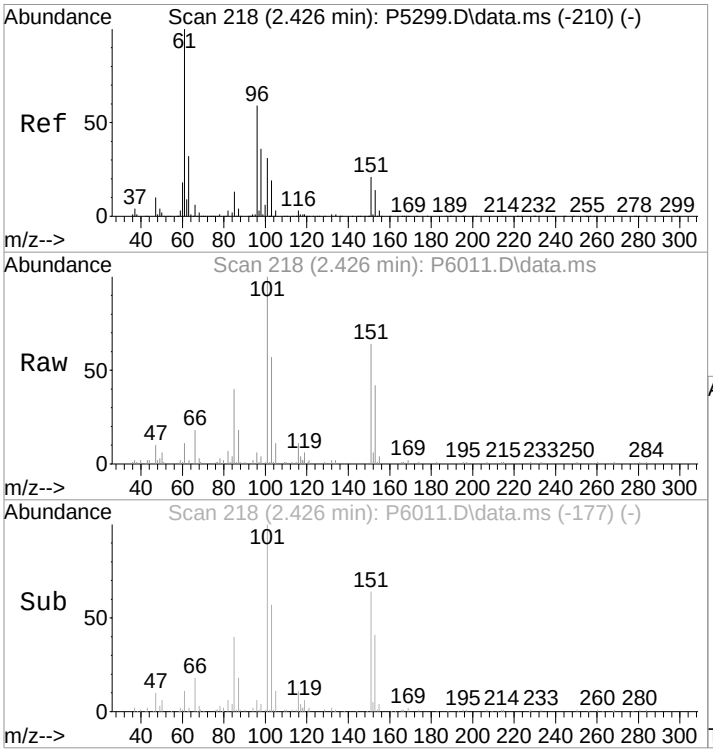


#10
Freon 123a
Concen: 2.28 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 67 Resp: 11484

Ion	Ratio	Lower	Upper
67	100		
117	99.9	78.8	118.8

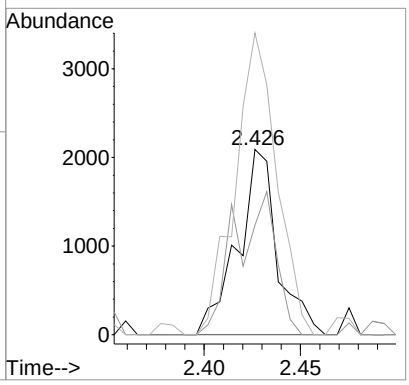


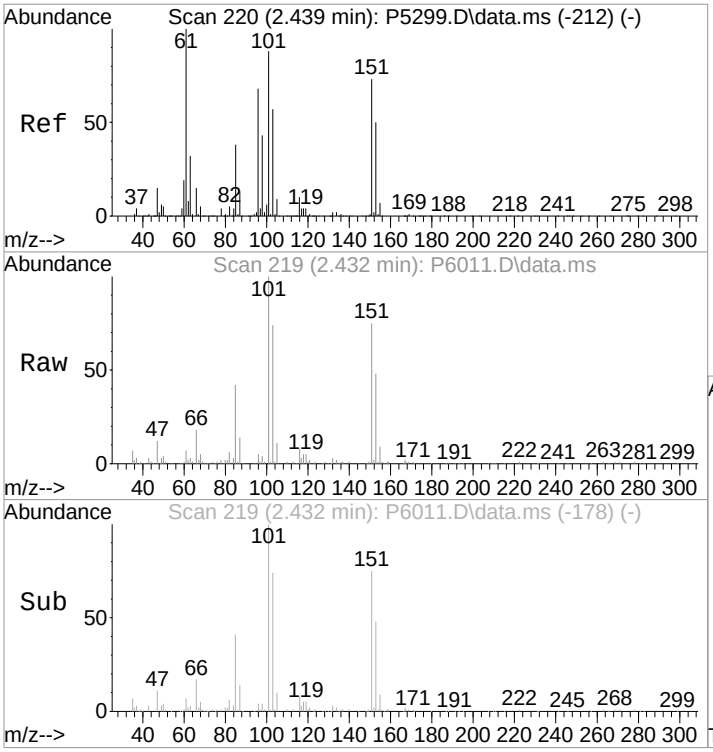


#13
1,1-Diclethene
Concen: 0.54 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 96 Resp: 2993

Ion	Ratio	Lower	Upper
96	100		
98	59.1	41.8	81.8
61	162.8	150.1	190.1

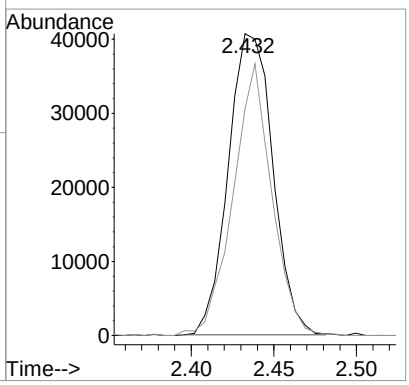


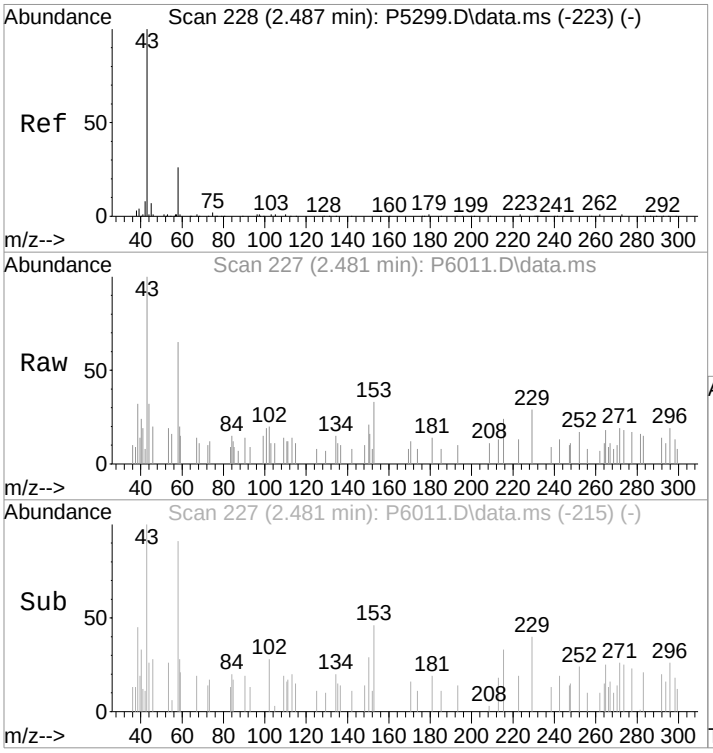


#14
Freon 113
Concen: 13.09 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion:101 Resp: 76450

Ion	Ratio	Lower	Upper
101	100		
151	75.1	62.6	102.6

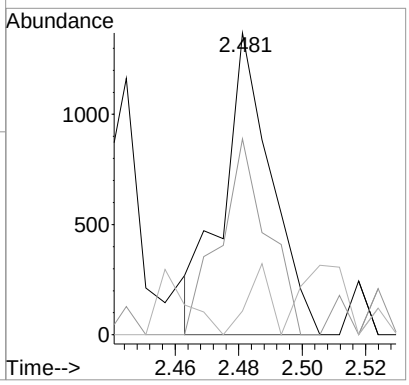


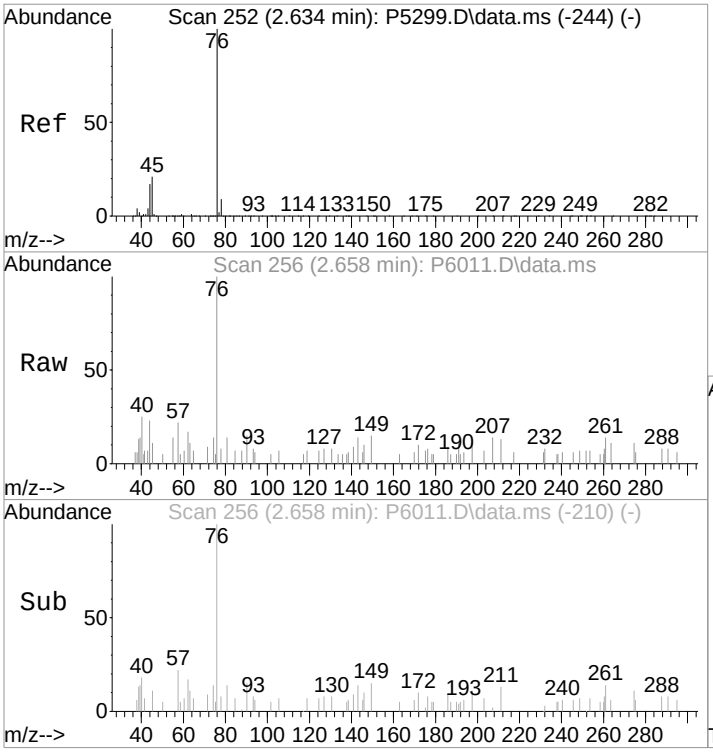


#15
Acetone
Concen: 1.11 ppb m
RT: 2.481 min Scan# 227
Delta R.T. -0.000 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 43 Resp: 1433

Ion	Ratio	Lower	Upper
43	100		
58	64.9	5.3	45.3#
42	7.9	0.0	28.7

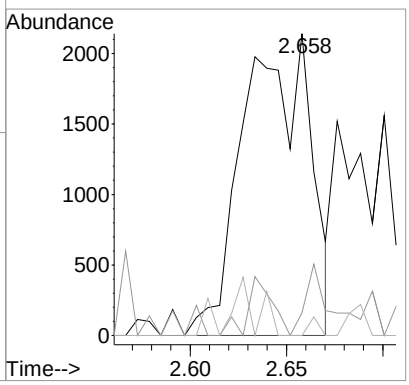


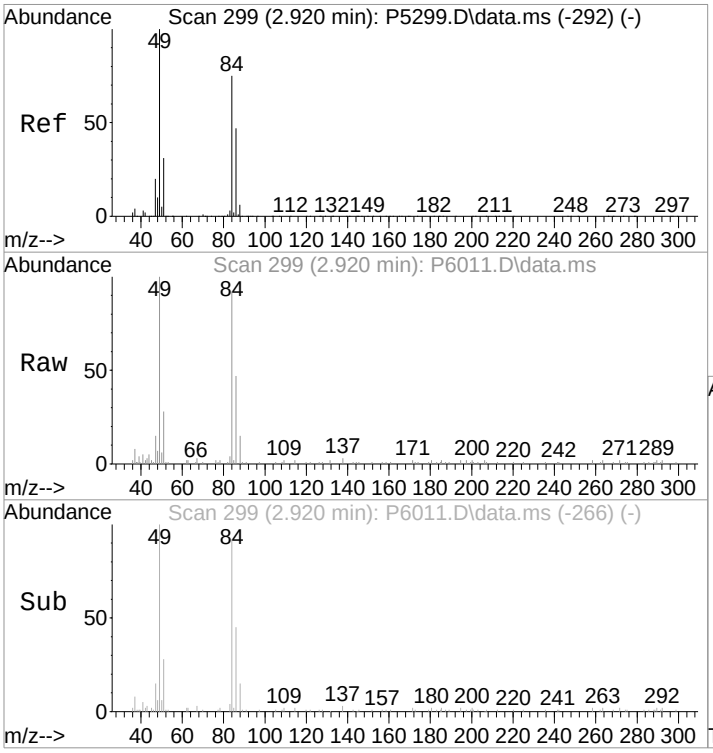


#18
Carbon Disulfide
Concen: 0.30 ppb
RT: 2.658 min Scan# 256
Delta R.T. 0.024 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 76 Resp: 5161

Ion	Ratio	Lower	Upper
76	100		
78	7.6	0.0	29.3
77	0.0	0.0	22.5

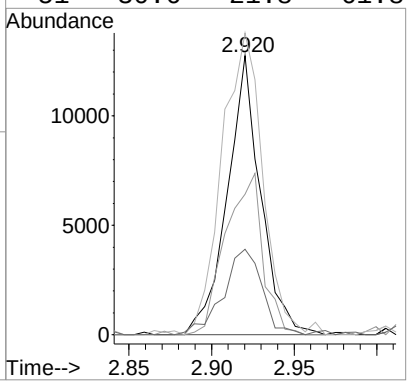


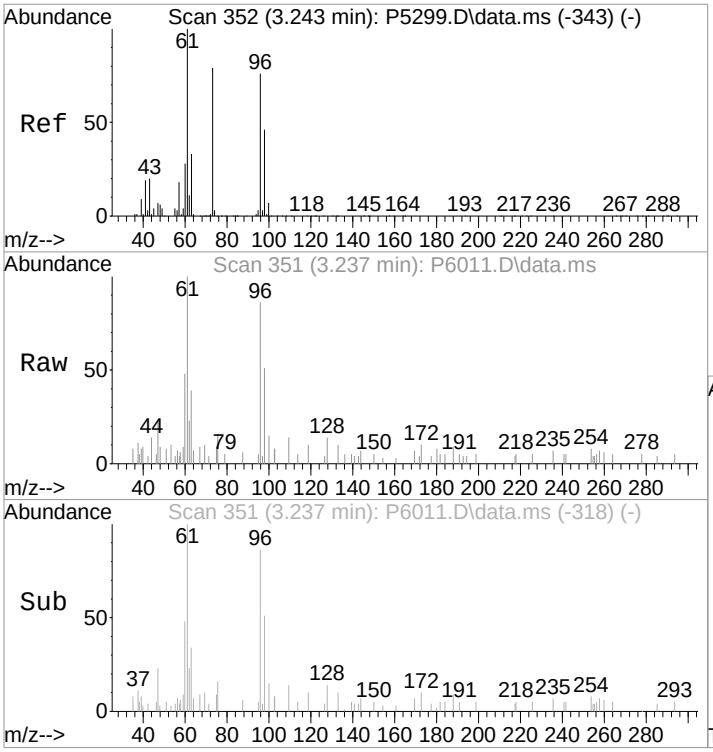


#22
Methylene Chloride
Concen: 3.10 ppb
RT: 2.920 min Scan# 299
Delta R.T. -0.000 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 84 Resp: 17993

Ion	Ratio	Lower	Upper
84	100		
86	50.4	42.8	82.8
49	108.2	113.9	153.9#
51	30.6	21.8	61.8

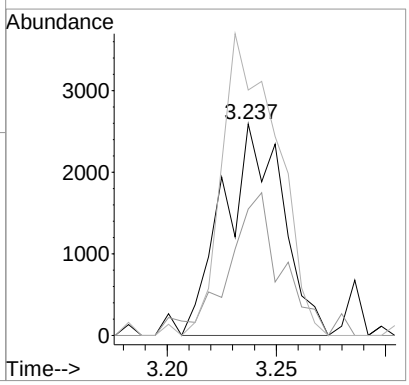


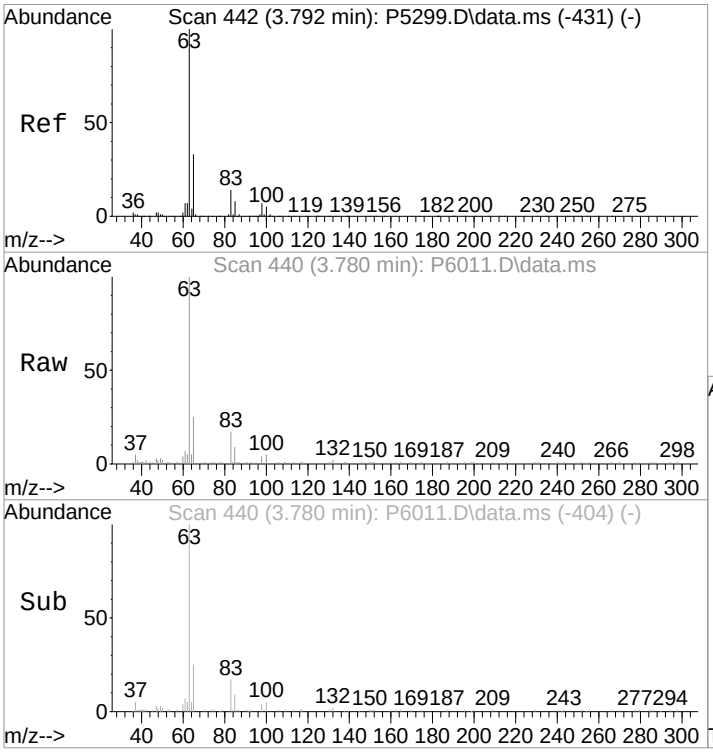


#26
trans-1,2-Dichloroethene
Concen: 0.79 ppb m
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 96 Resp: 4890

Ion	Ratio	Lower	Upper
96	100		
98	59.7	41.0	81.0
61	116.2	112.4	152.4

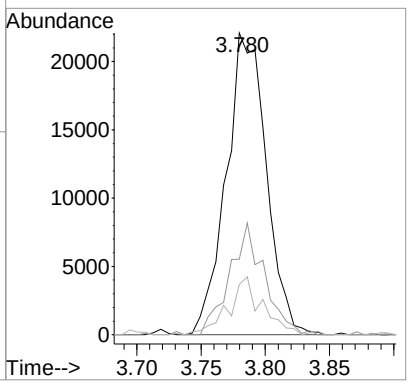


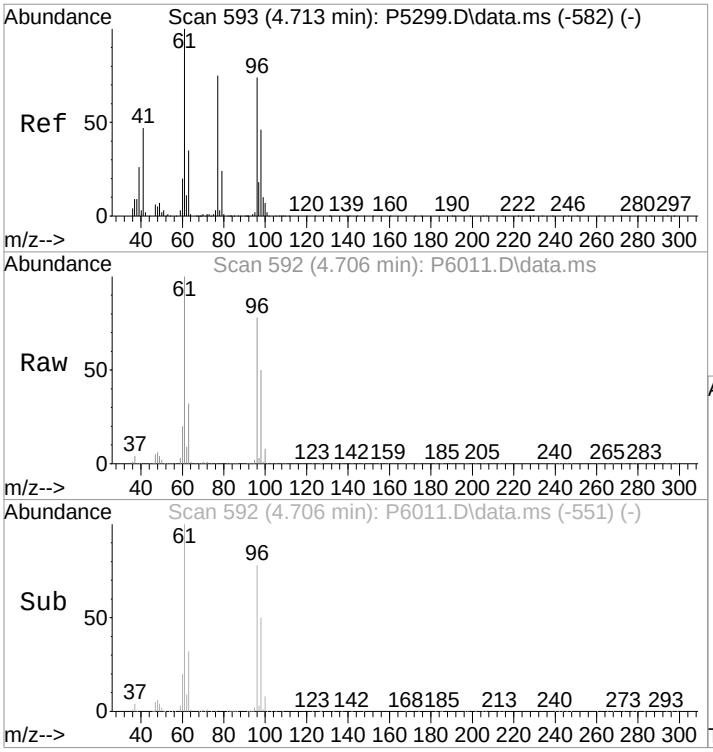


#28
1,1-Diclethane
Concen: 4.66 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 63 Resp: 47947

Ion	Ratio	Lower	Upper
63	100		
65	25.0	12.9	52.9
83	17.3	0.0	33.5

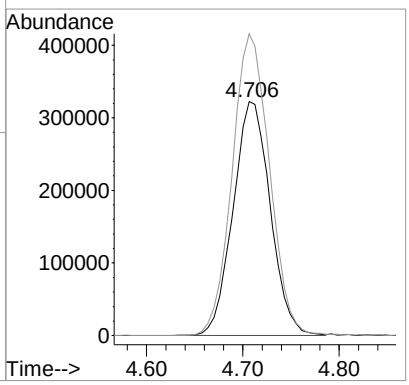


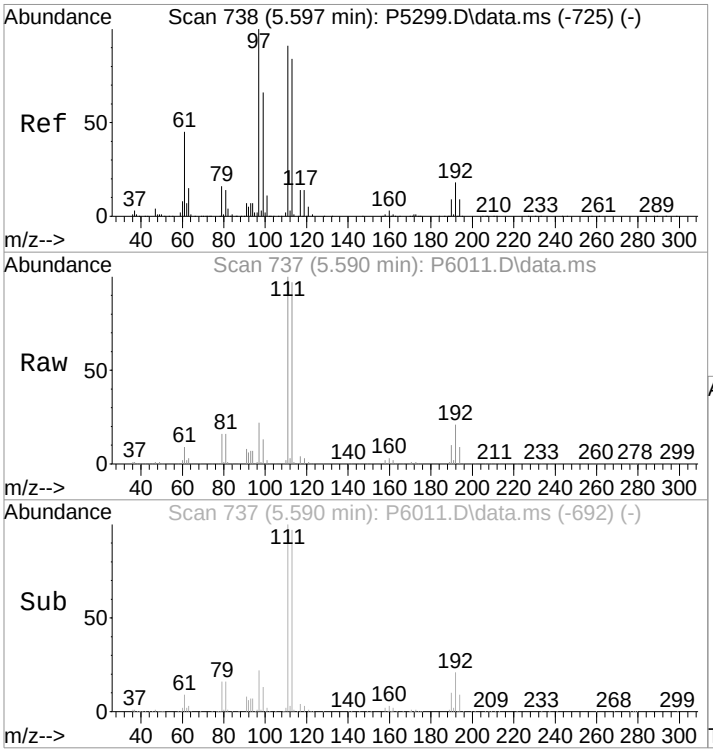


#34
cis-1,2-Dichloroethene
Concen: 137.02 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 96 Resp: 865966

Ion	Ratio	Lower	Upper
96	100		
61	129.0	114.6	154.6

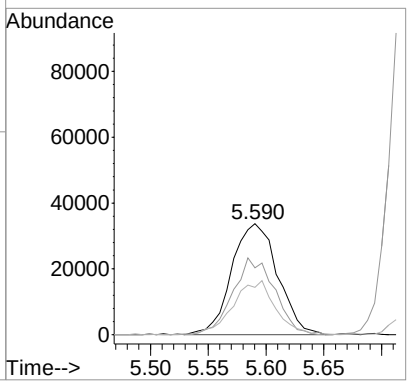


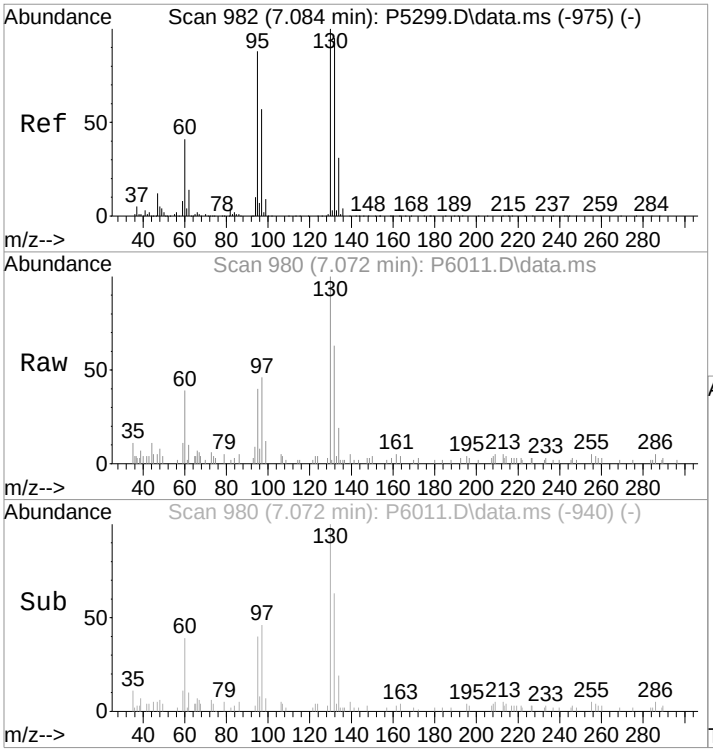


#41
1,1,1-Trichloroethane
Concen: 10.15 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 97 Resp: 93678

Ion	Ratio	Lower	Upper
97	100		
99	60.2	46.2	86.2
61	42.6	25.3	65.3

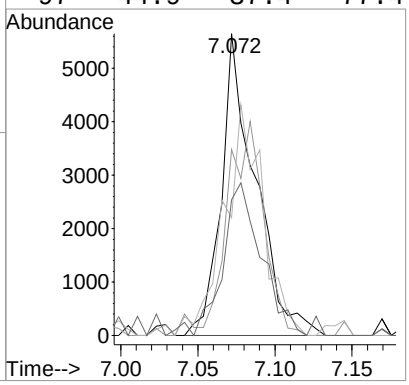


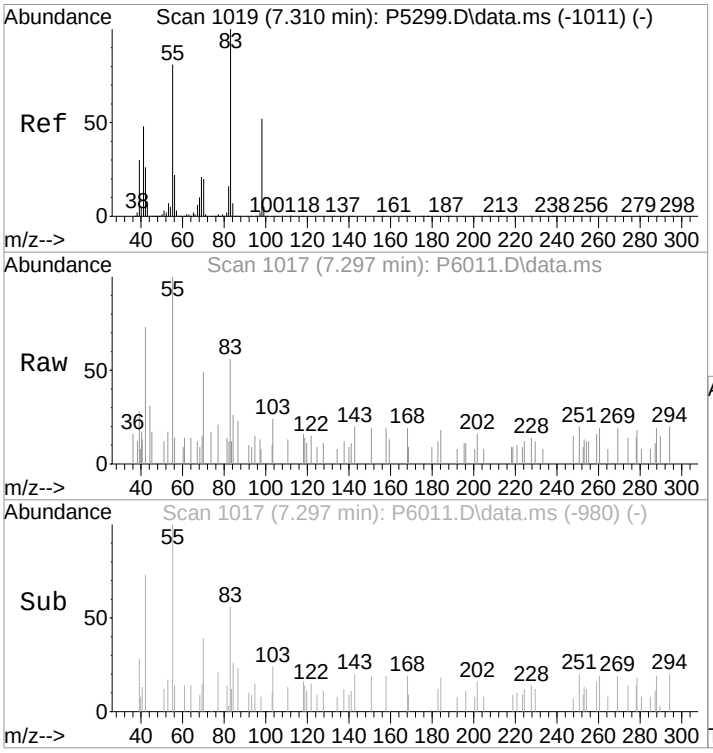


#54
Trichloroethene
Concen: 1.28 ppb
RT: 7.072 min Scan# 980
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion:130 Resp: 8694

Ion	Ratio	Lower	Upper
130	100		
132	61.6	75.2	115.2#
95	39.0	68.1	108.1#
97	44.9	37.4	77.4

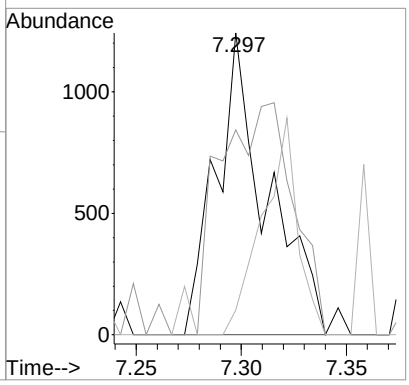




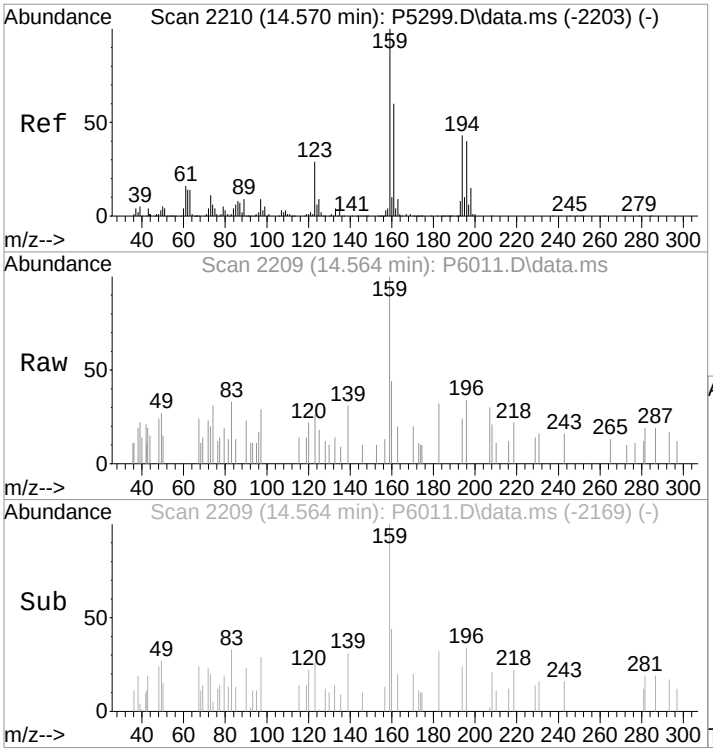
#55
Methylcyclohexane
Concen: 0.25 ppb
RT: 7.297 min Scan# 1017
Delta R.T. -0.012 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion: 55 Resp: 2100

Ion	Ratio	Lower	Upper
55	100		
83	67.9	104.1	144.1#
98	8.2	43.9	83.9#



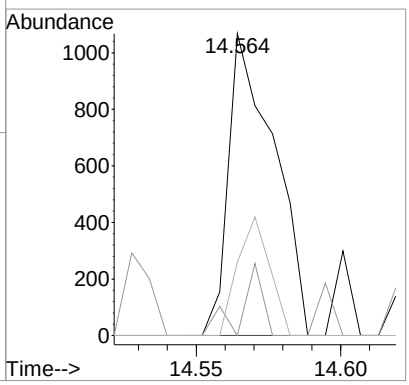
1st 10/28/16
2nd 10/31/16



#119
2,4,5-Trichlorotolene
Concen: 0.21 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P6011.D
Acq: 27 Oct 2016 4:51 pm

Tgt Ion:159 Resp: 1177

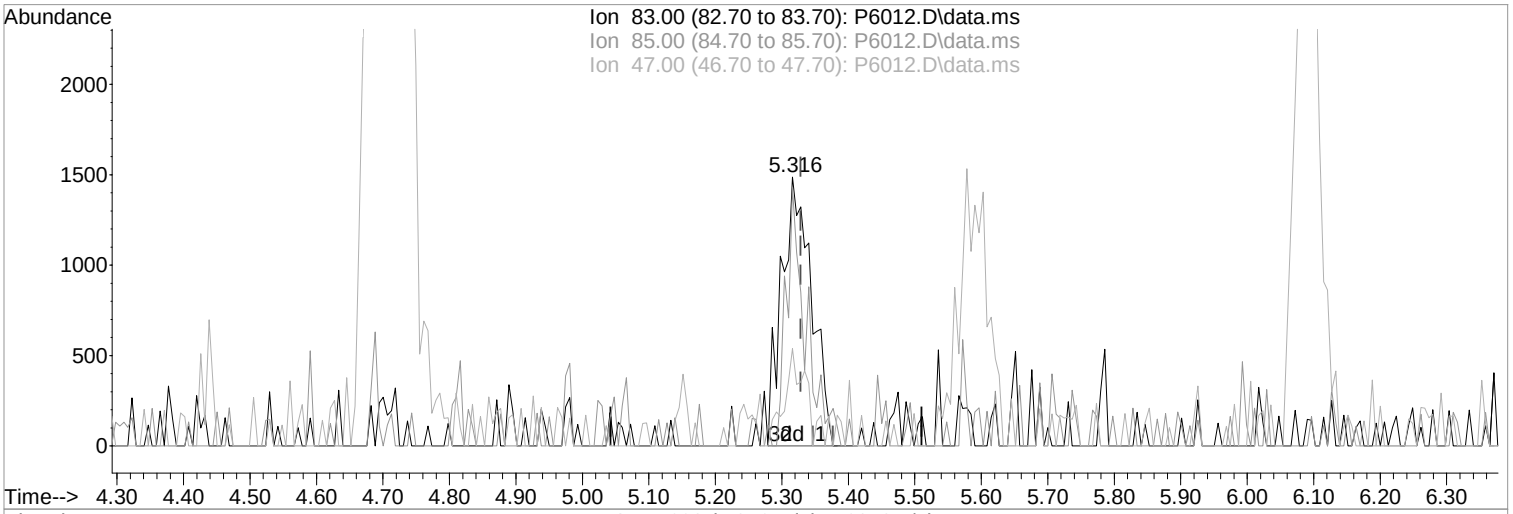
Ion	Ratio	Lower	Upper
159	100		
161	0.0	48.1	72.1#
194	24.3	34.5	51.7#

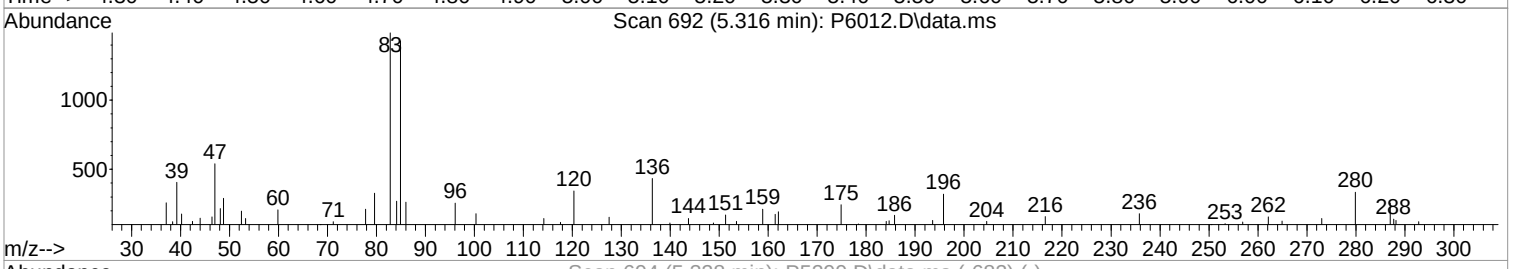


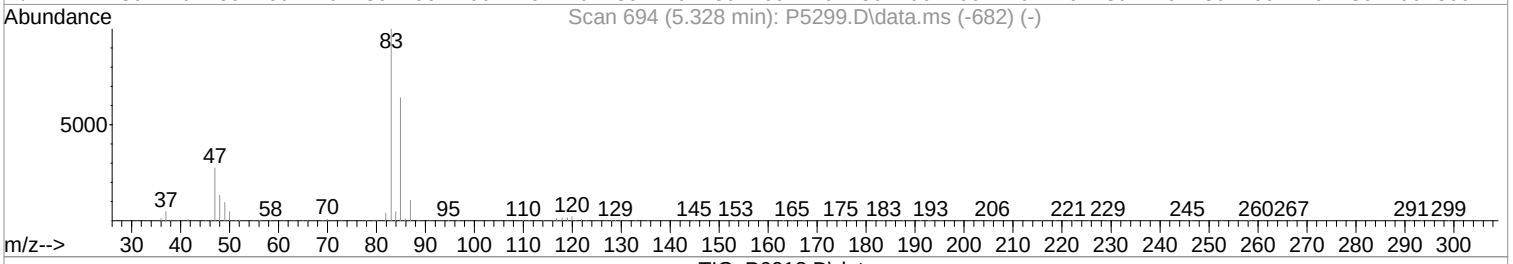
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6012.D
Acq On : 27 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-016|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 17:43:28 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6012.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.47 ppb m

response 4633

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	96.03#
47.00	27.40	36.22
0.00	0.00	0.00

Manual Integration:

After

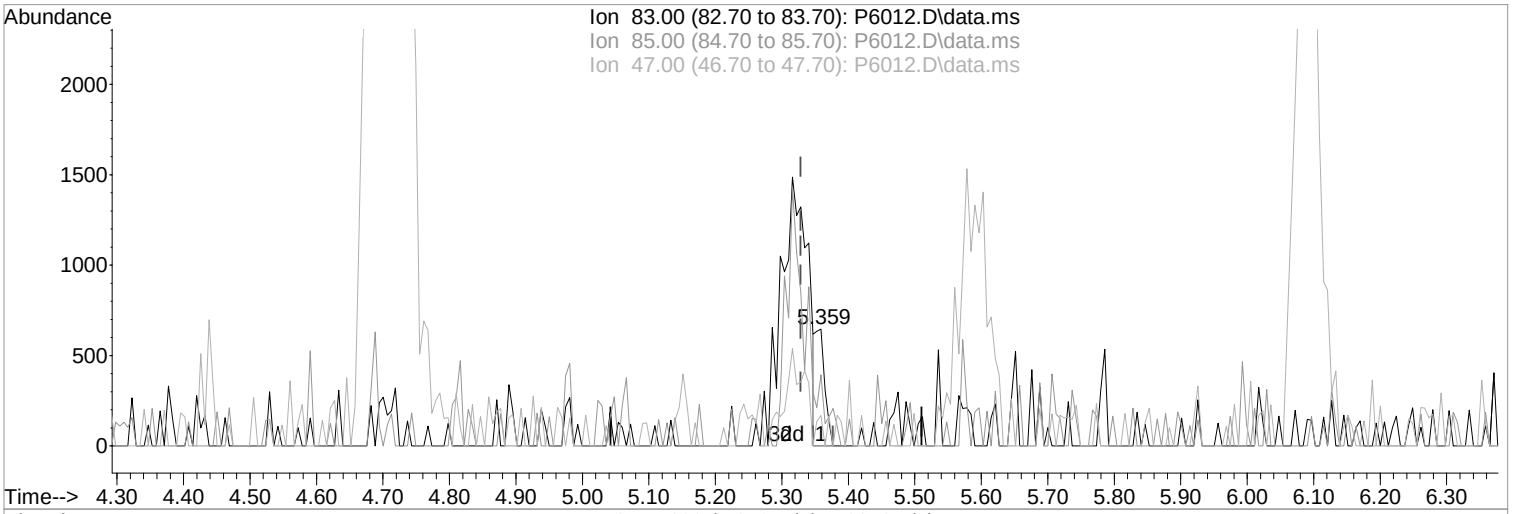
Split Peak

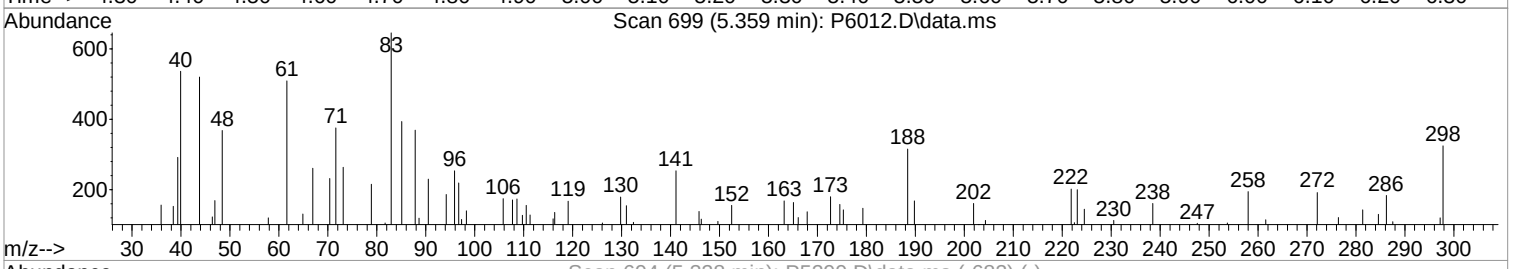
10/28/16

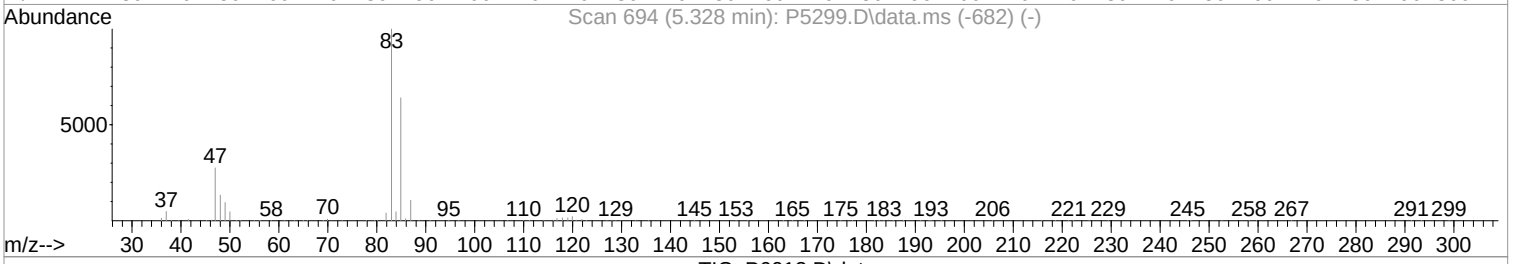
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6012.D
Acq On : 27 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-016|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 17:43:28 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6012.D\data.ms

(40) Chloroform (P)

5.359min (+0.030) 0.06 ppb

response 631

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	60.99
47.00	27.40	26.16
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6012.D
Acq On : 27 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-016|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 28 11:15:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

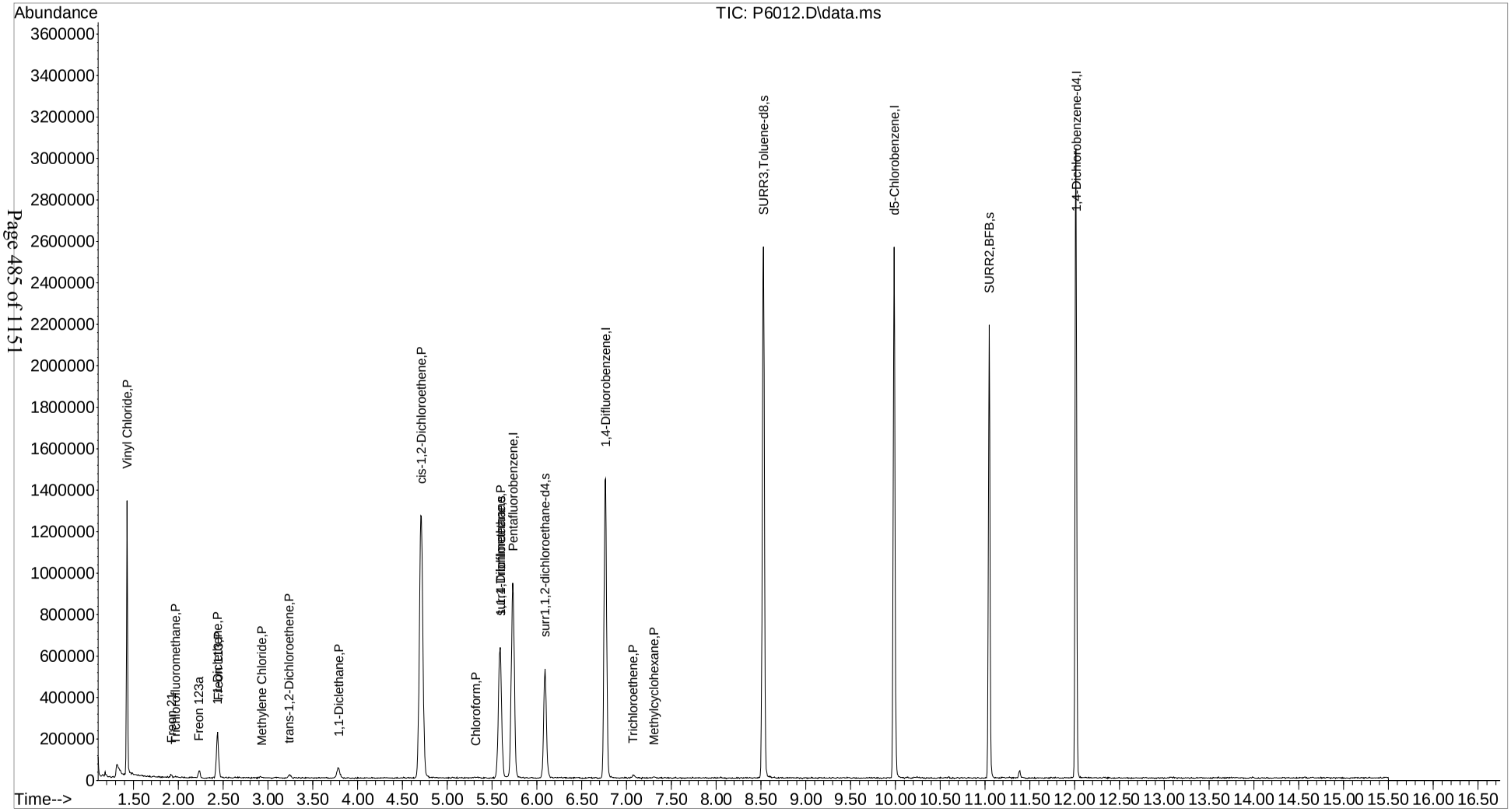
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	786198	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1283142	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1160257	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	604515	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	369914	54.02	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.04%				
48) surr1,1,2-dichloroetha...	6.090	65	400903	51.53	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.06%				
65) SURR3,Toluene-d8	8.529	98	1574860	56.12	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.24%				
70) SURR2,BFB	11.047	95	569309	52.00	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.00%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	682504	109.73	ppb		98
7) Freon 21	1.920	67	6090	0.74	ppb		92
8) Trichlorofluoromethane	1.969	101	3385	0.47	ppb		93
10) Freon 123a	2.225	67	12917	2.58	ppb	#	42
13) 1,1-Diclethene	2.433	96	3421	0.63	ppb	#	73
14) Freon 113	2.439	101	77482	13.37	ppb		93
22) Methylene Chloride	2.926	84	1920	0.33	ppb		84
26) trans-1,2-Dichloroethene	3.237	96	5622	0.91	ppb	#	73
28) 1,1-Diclethane	3.792	63	57280	5.61	ppb		97
34) cis-1,2-Dichloroethene	4.706	96	810252	129.15	ppb		91
40) Chloroform	5.316	83	4633m	0.47	ppb		
41) 1,1,1-Trichloroethane	5.590	97	121051	13.21	ppb		96
54) Trichloroethene	7.072	130	6067	0.90	ppb	#	77
55) Methylcyclohexane	7.304	55	2038	0.24	ppb	#	79

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

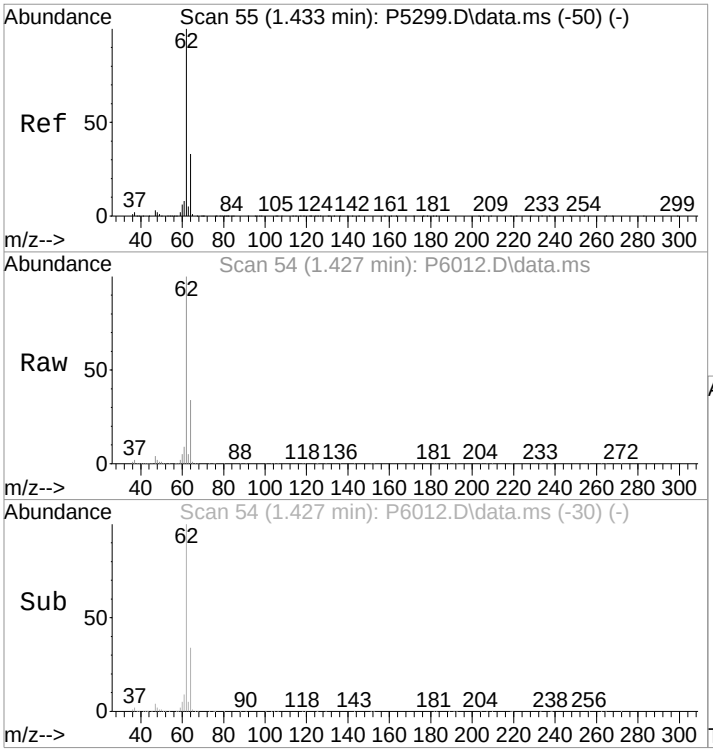
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6012.D
Acq On : 27 Oct 2016 5:23 pm
Operator : K.Ruest
Sample : R1611185-016|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 28 11:15:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



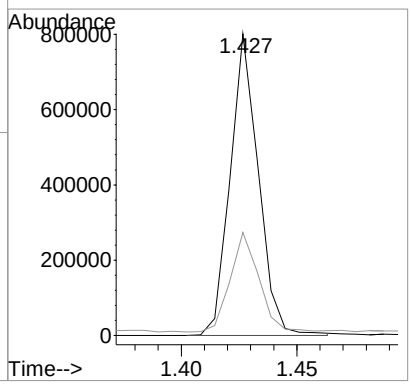
1st 10/28/16
2nd 10/31/16

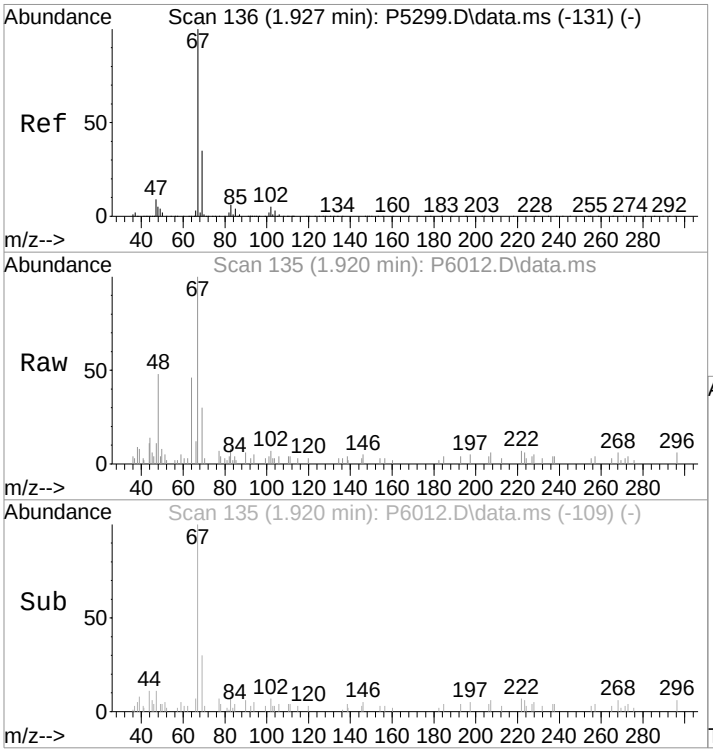


#4
Vinyl Chloride
Concen: 109.73 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 62 Resp: 682504

Ion	Ratio	Lower	Upper
62	100		
64	34.1	13.1	53.1

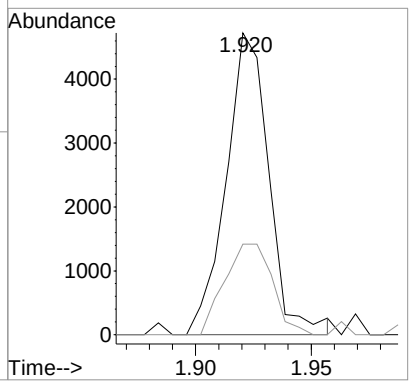


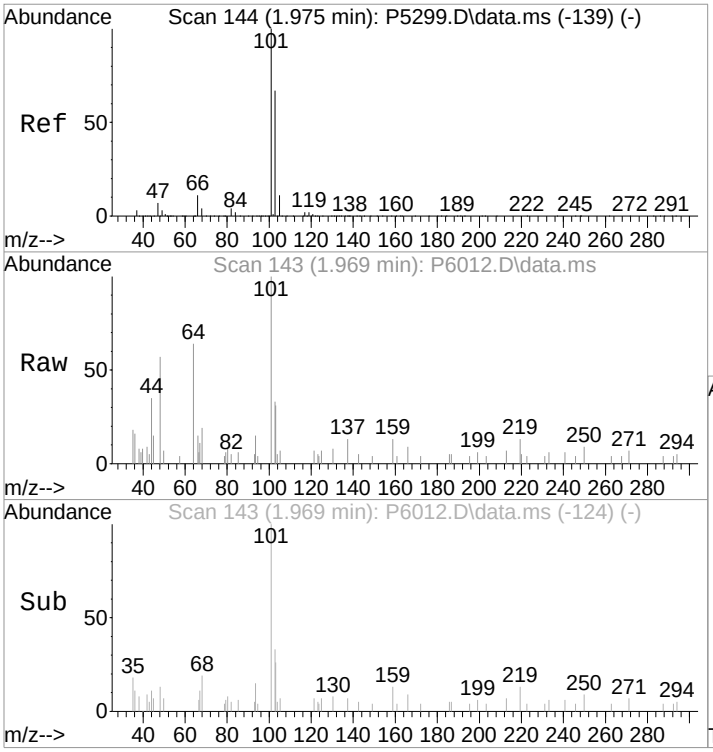


#7
Freon 21
Concen: 0.74 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 67 Resp: 6090

Ion	Ratio	Lower	Upper
67	100		
69	30.0	14.4	54.4

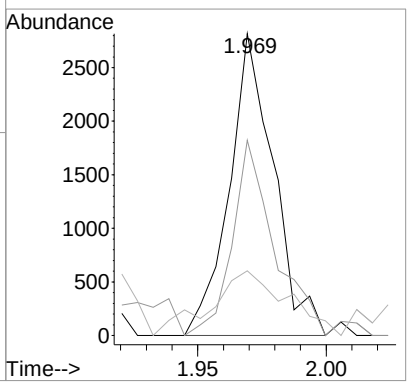


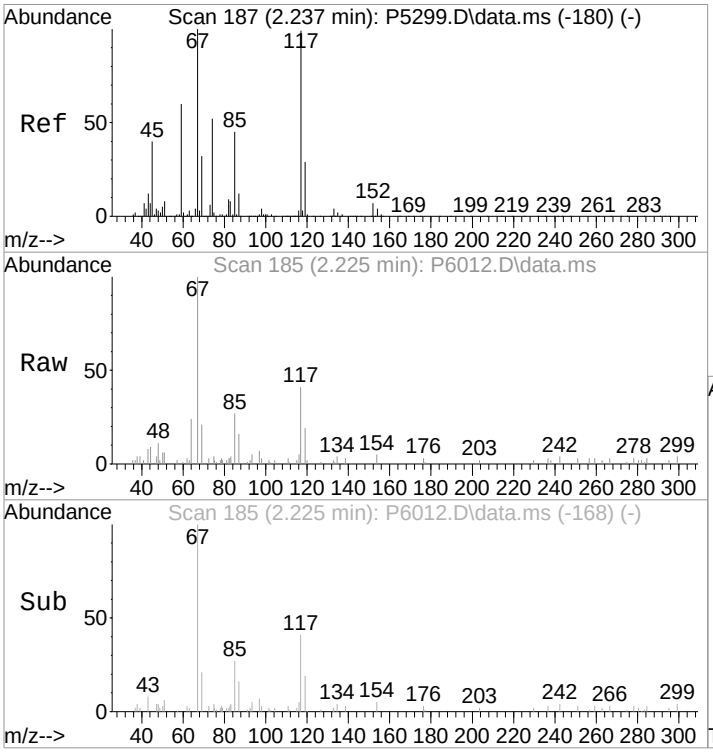


#8
Trichlorofluoromethane
Concen: 0.47 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion:101 Resp: 3385

Ion	Ratio	Lower	Upper
101	100		
103	64.7	47.3	87.3
66	21.5	0.0	31.5

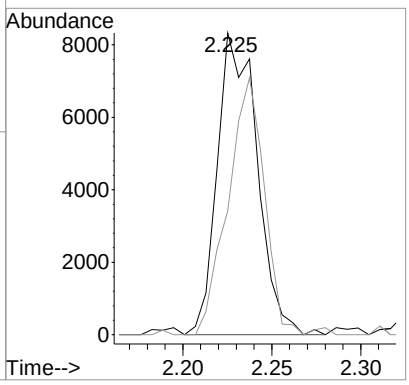


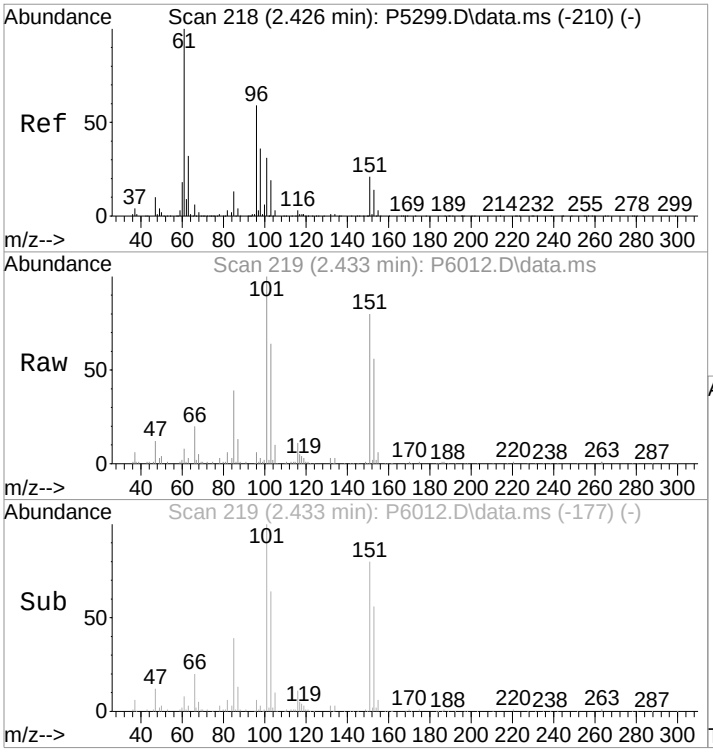


#10
Freon 123a
Concen: 2.58 ppb
RT: 2.225 min Scan# 185
Delta R.T. -0.012 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 67 Resp: 12917

Ion	Ratio	Lower	Upper
67	100		
117	41.0	78.8	118.8#

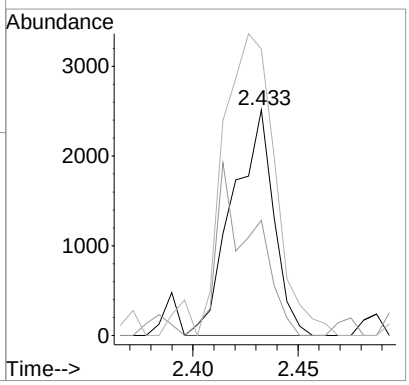


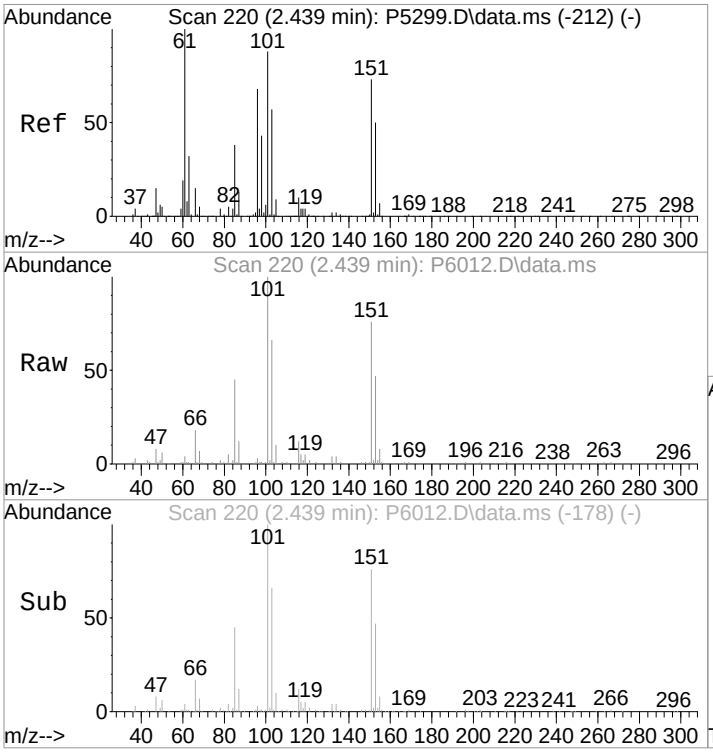


#13
1,1-Diclethene
Concen: 0.63 ppb
RT: 2.433 min Scan# 219
Delta R.T. 0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 96 Resp: 3421

Ion	Ratio	Lower	Upper
96	100		
98	51.1	41.8	81.8
61	126.9	150.1	190.1#

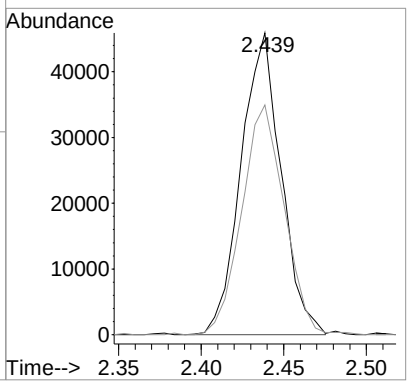


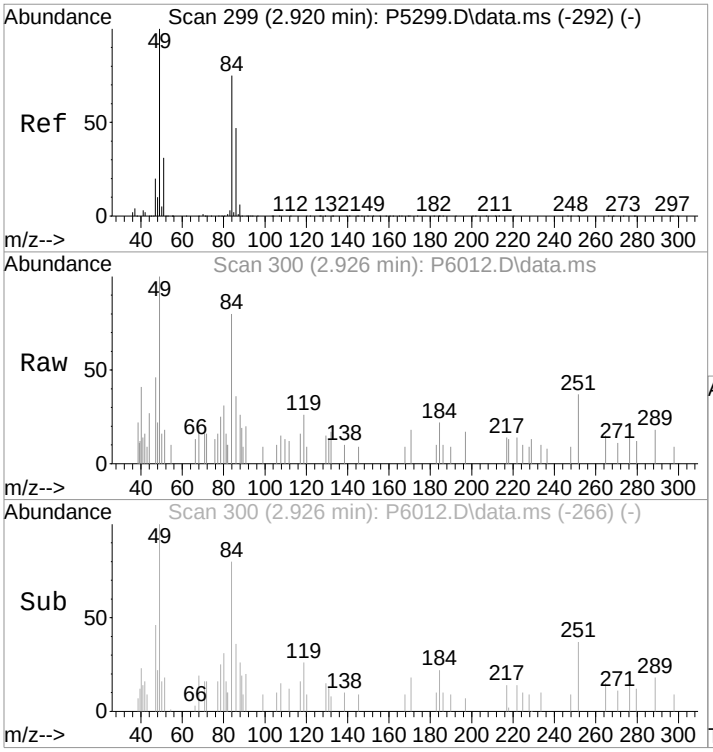


#14
Freon 113
Concen: 13.37 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion:101 Resp: 77482

Ion	Ratio	Lower	Upper
101	100		
151	76.1	62.6	102.6

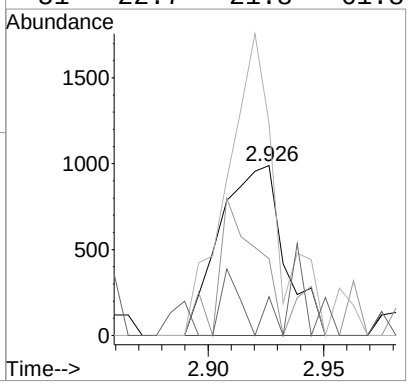


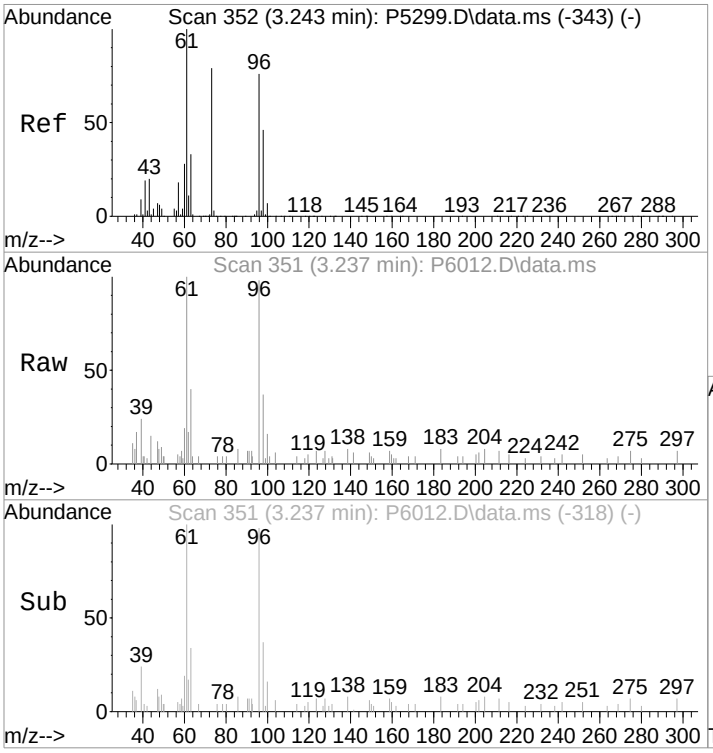


#22
Methylene Chloride
Concen: 0.33 ppb
RT: 2.926 min Scan# 300
Delta R.T. 0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 84 Resp: 1920

Ion	Ratio	Lower	Upper
84	100		
86	45.3	42.8	82.8
49	124.8	113.9	153.9
51	22.7	21.8	61.8

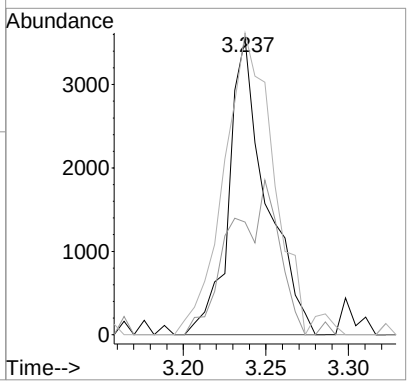


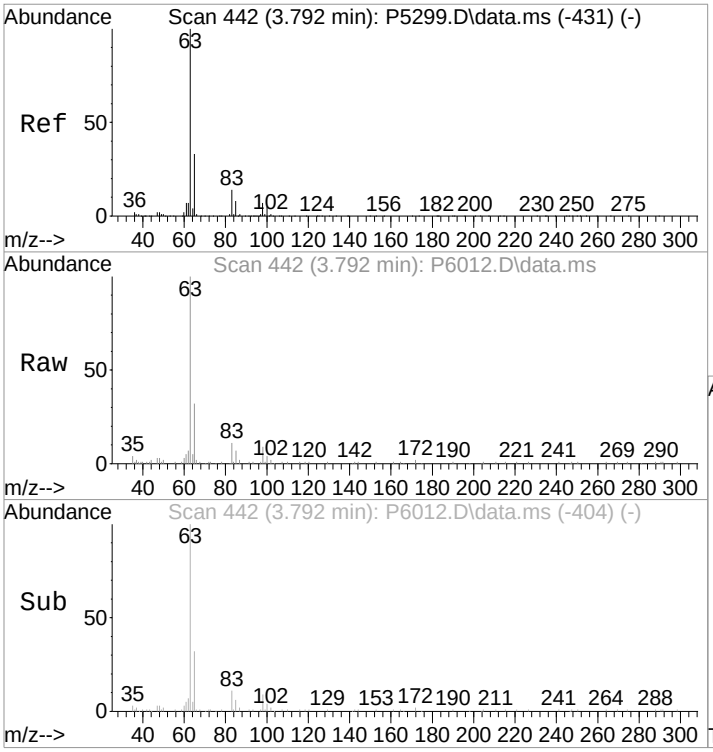


#26
trans-1,2-Dichloroethene
Concen: 0.91 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 96 Resp: 5622

Ion	Ratio	Lower	Upper
96	100		
98	38.0	41.0	81.0#
61	101.9	112.4	152.4#

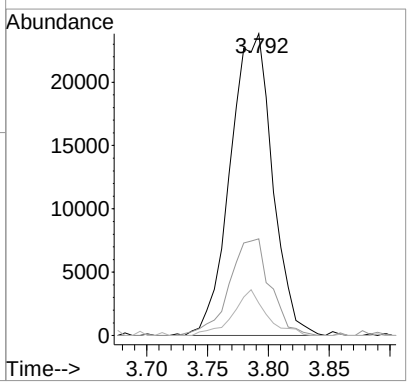


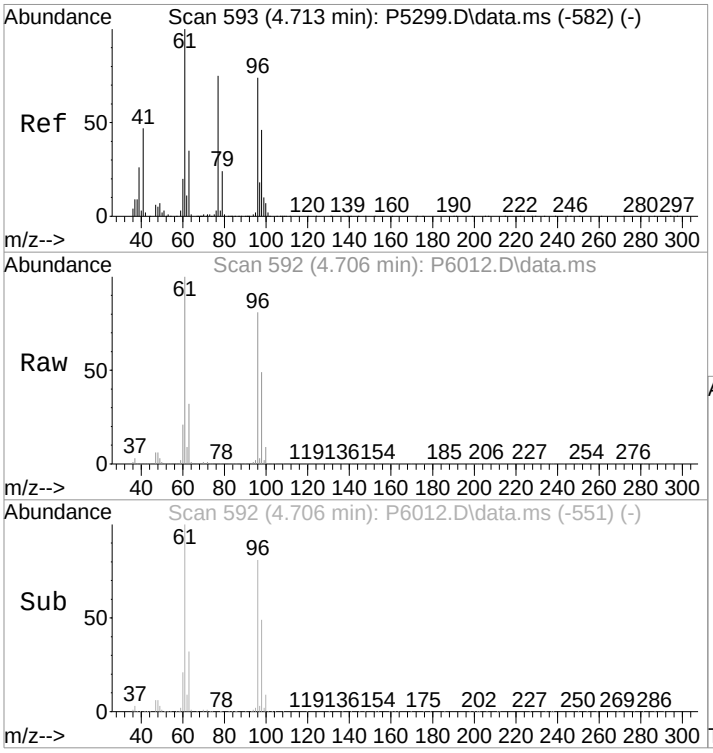


#28
1,1-Diclethane
Concen: 5.61 ppb
RT: 3.792 min Scan# 442
Delta R.T. 0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 63 Resp: 57280

Ion	Ratio	Lower	Upper
63	100		
65	32.0	12.9	52.9
83	10.7	0.0	33.5

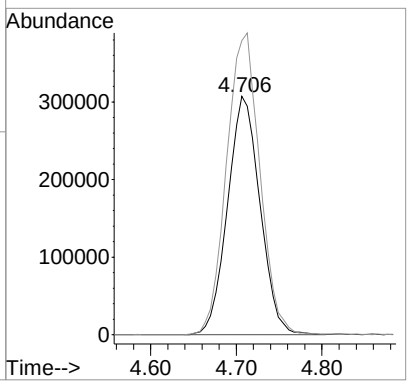


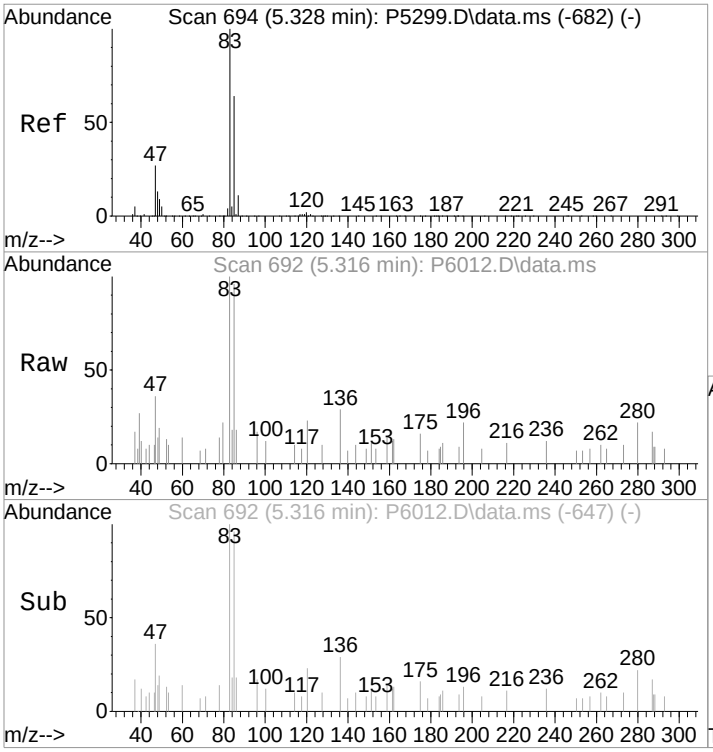


#34
cis-1,2-Dichloroethene
Concen: 129.15 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 96 Resp: 810252

Ion	Ratio	Lower	Upper
96	100		
61	123.4	114.6	154.6

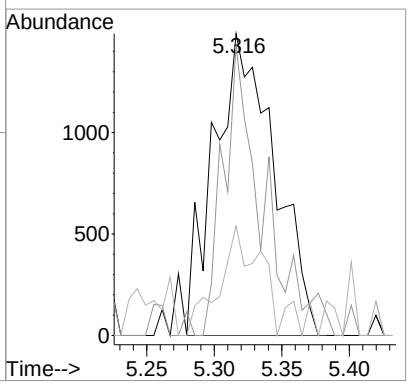


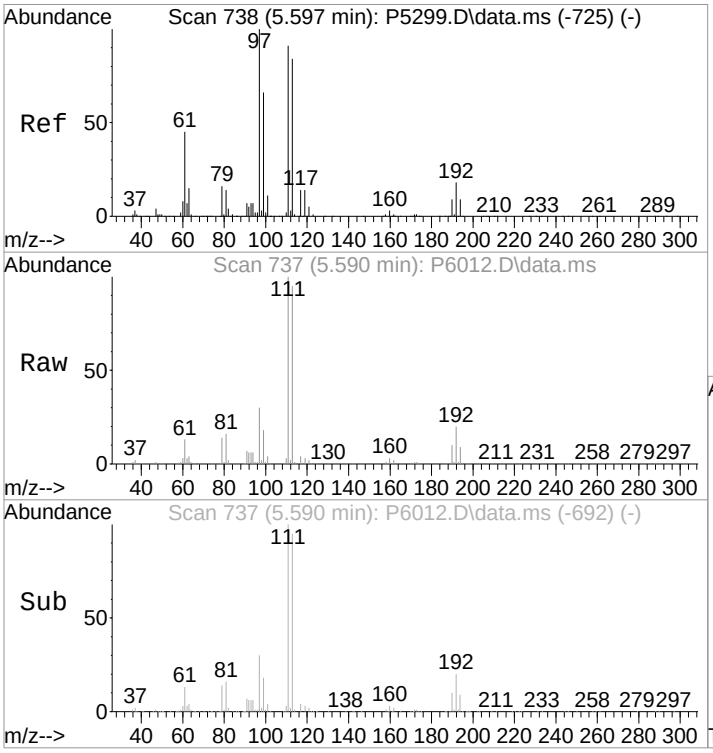


#40
Chloroform
Concen: 0.47 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 83 Resp: 4633

Ion	Ratio	Lower	Upper
83	100		
85	96.0	44.1	84.1#
47	36.2	7.4	47.4

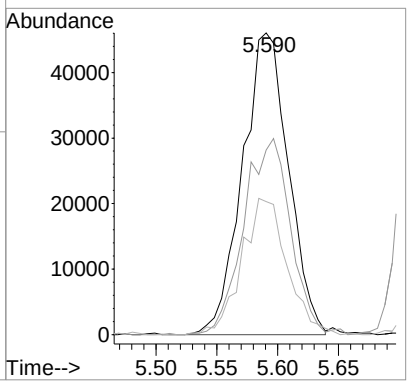


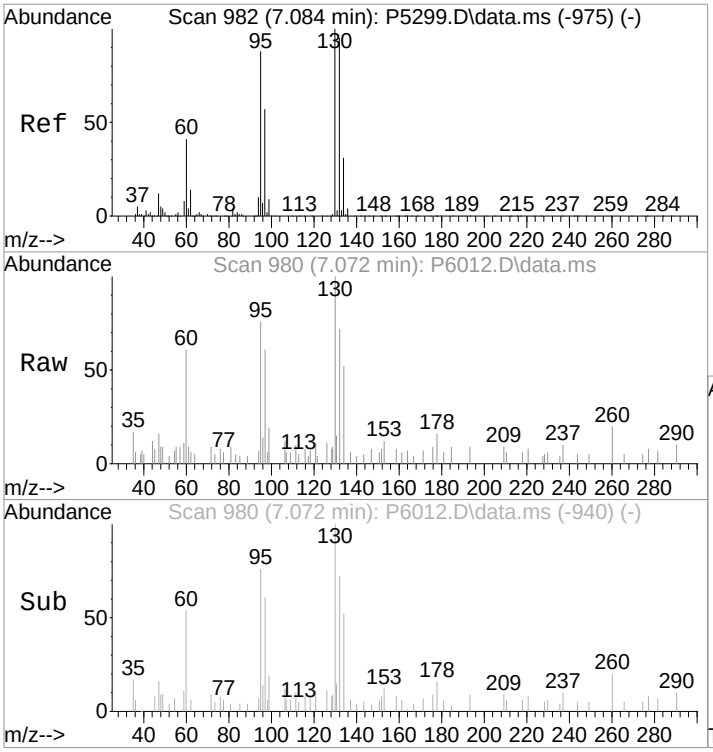


#41
1,1,1-Trichloroethane
Concen: 13.21 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 97 Resp: 121051

Ion	Ratio	Lower	Upper
97	100		
99	61.2	46.2	86.2
61	44.1	25.3	65.3

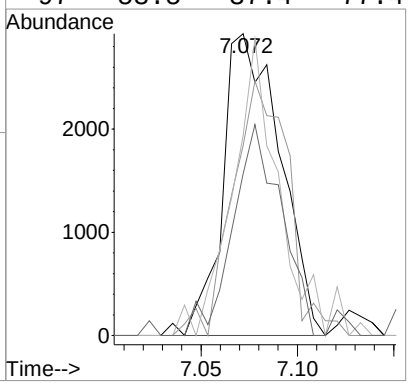


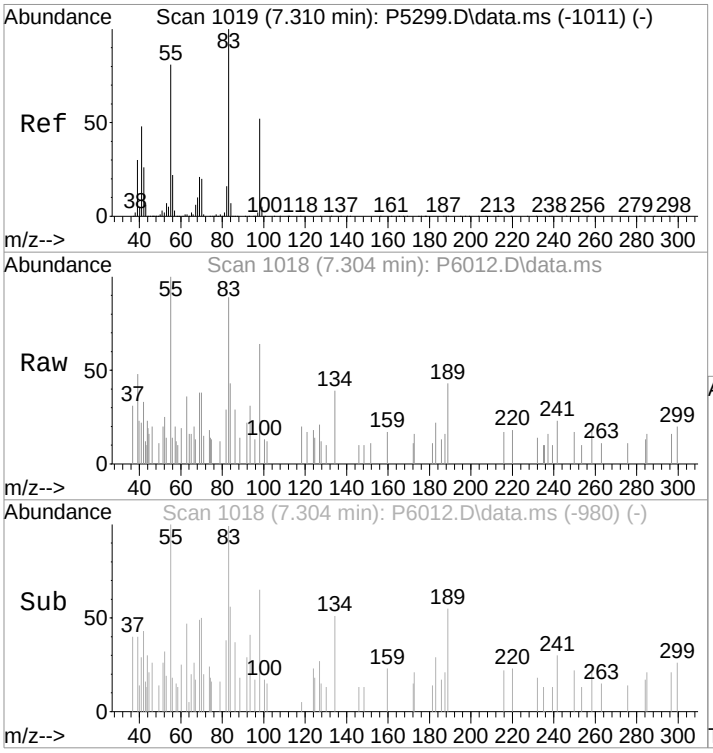


#54
Trichloroethene
Concen: 0.90 ppb
RT: 7.072 min Scan# 980
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion:130 Resp: 6067

Ion	Ratio	Lower	Upper
130	100		
132	62.9	75.2	115.2#
95	66.1	68.1	108.1#
97	53.5	37.4	77.4

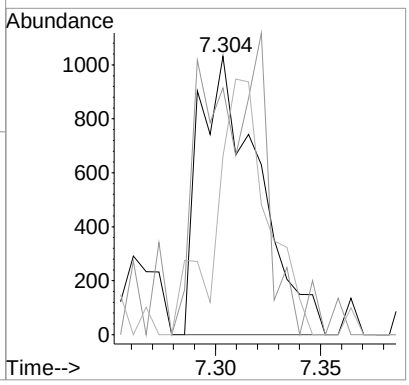




#55
Methylcyclohexane
Concen: 0.24 ppb
RT: 7.304 min Scan# 1018
Delta R.T. -0.006 min
Lab File: P6012.D
Acq: 27 Oct 2016 5:23 pm

Tgt Ion: 55 Resp: 2038

Ion	Ratio	Lower	Upper
55	100		
83	88.6	104.1	144.1#
98	64.0	43.9	83.9

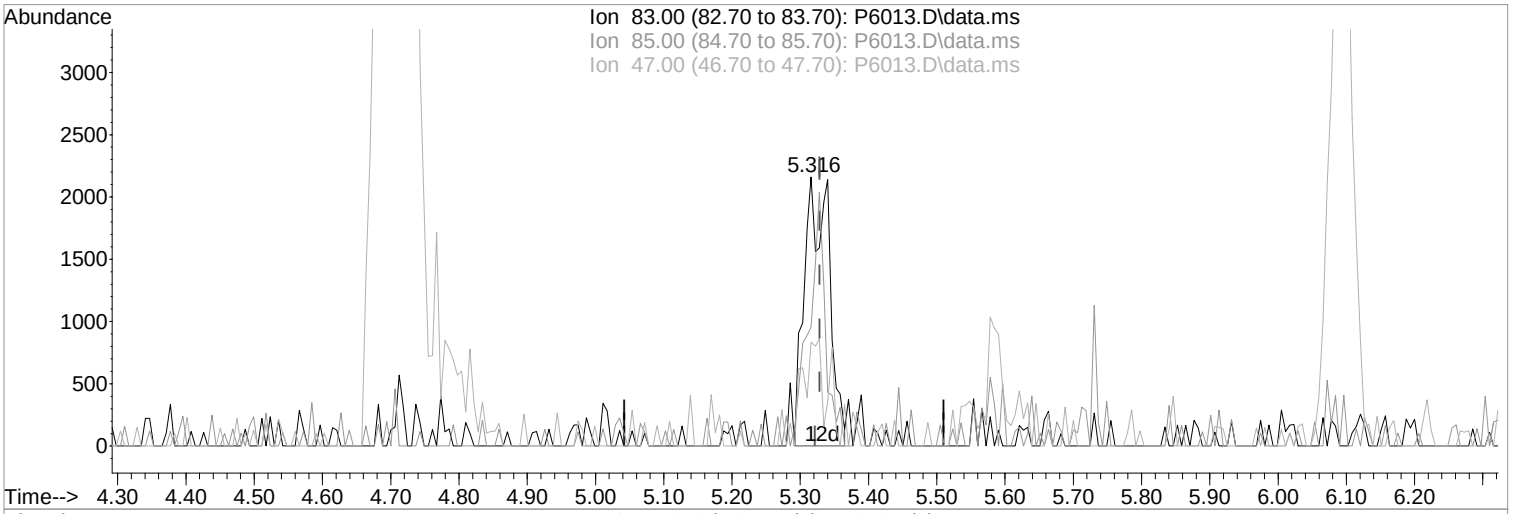


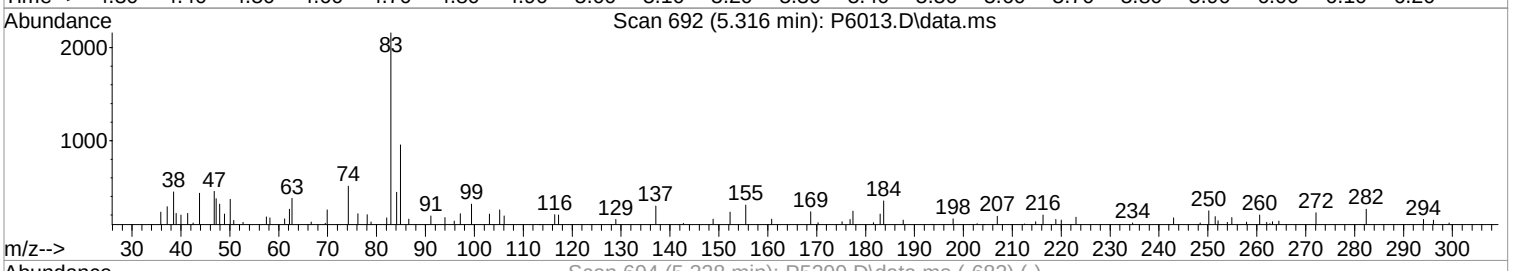
1st 10/28/16
2nd 10/31/16

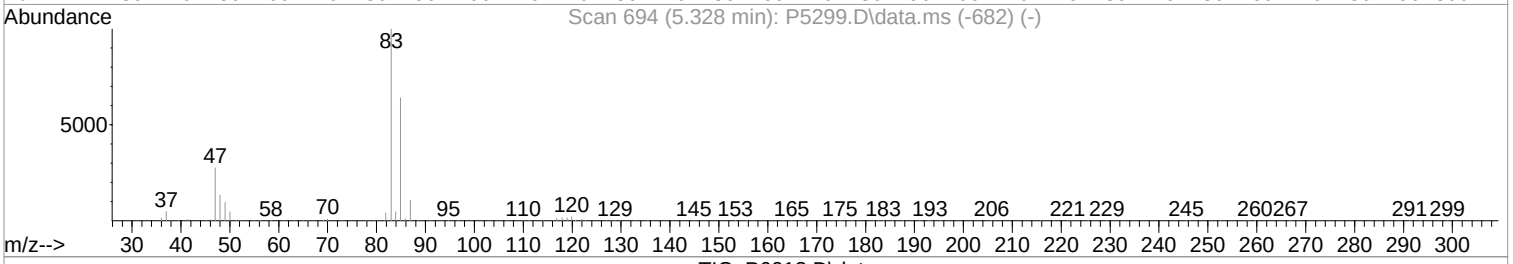
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6013.D
Acq On : 27 Oct 2016 5:53 pm
Operator : K.Ruest
Sample : R1611185-017|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 28 08:34:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6013.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.55 ppb m

response 5458

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	44.21
47.00	27.40	21.11
0.00	0.00	0.00

Manual Integration:

After

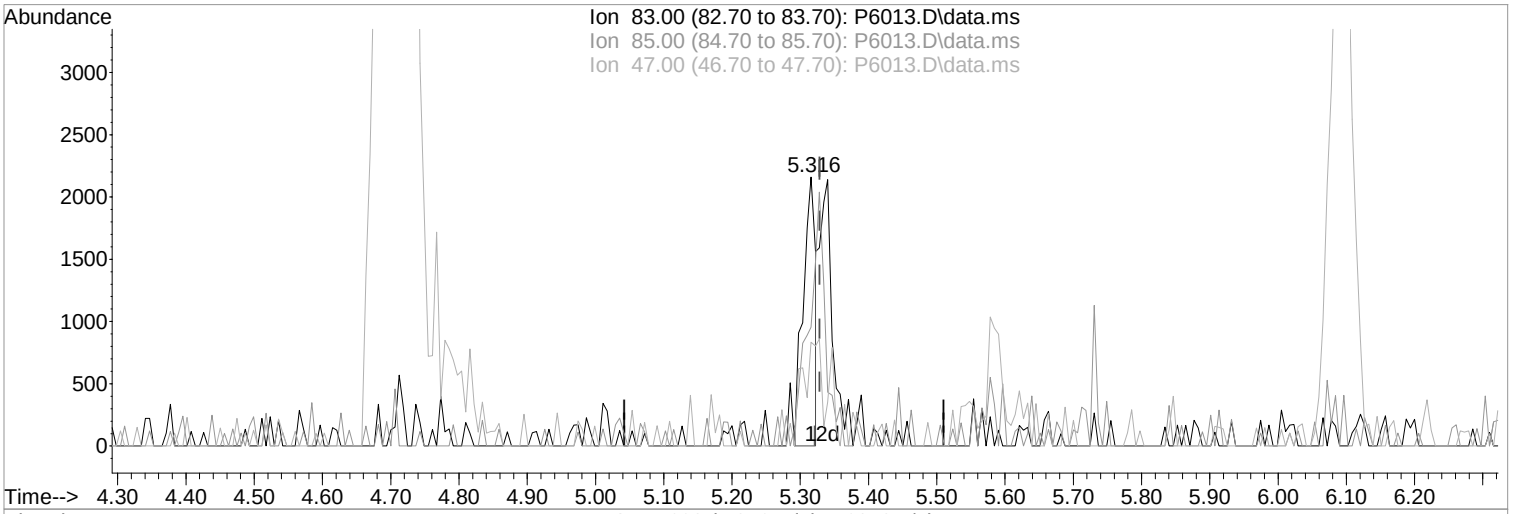
Split Peak

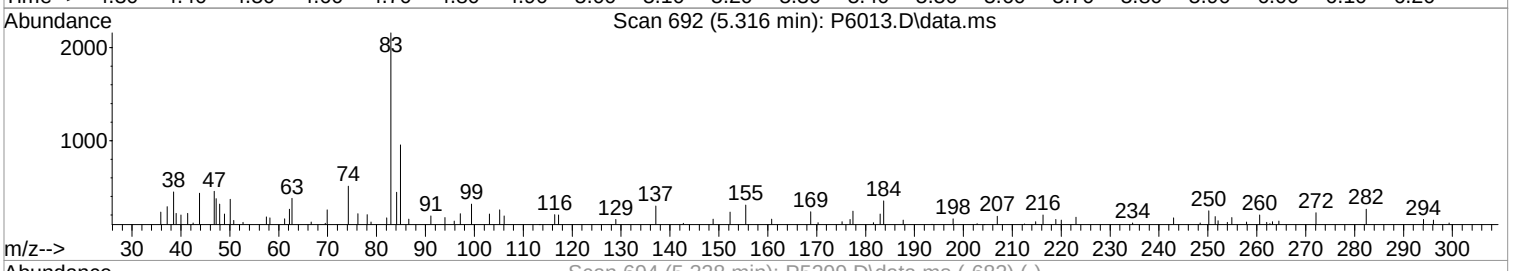
10/28/16

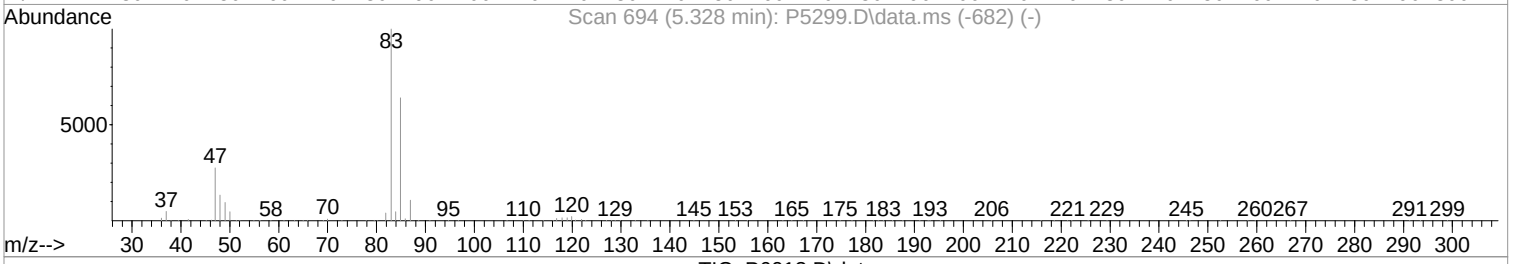
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6013.D
Acq On : 27 Oct 2016 5:53 pm
Operator : K.Ruest
Sample : R1611185-017|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 28 08:34:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6013.D\data.ms

(40) Chloroform (P)

5.316min (-0.012) 0.27 ppb

response 2696

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	44.21
47.00	27.40	38.61
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6013.D
Acq On : 27 Oct 2016 5:53 pm
Operator : K.Ruest
Sample : R1611185-017|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 28 11:18:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

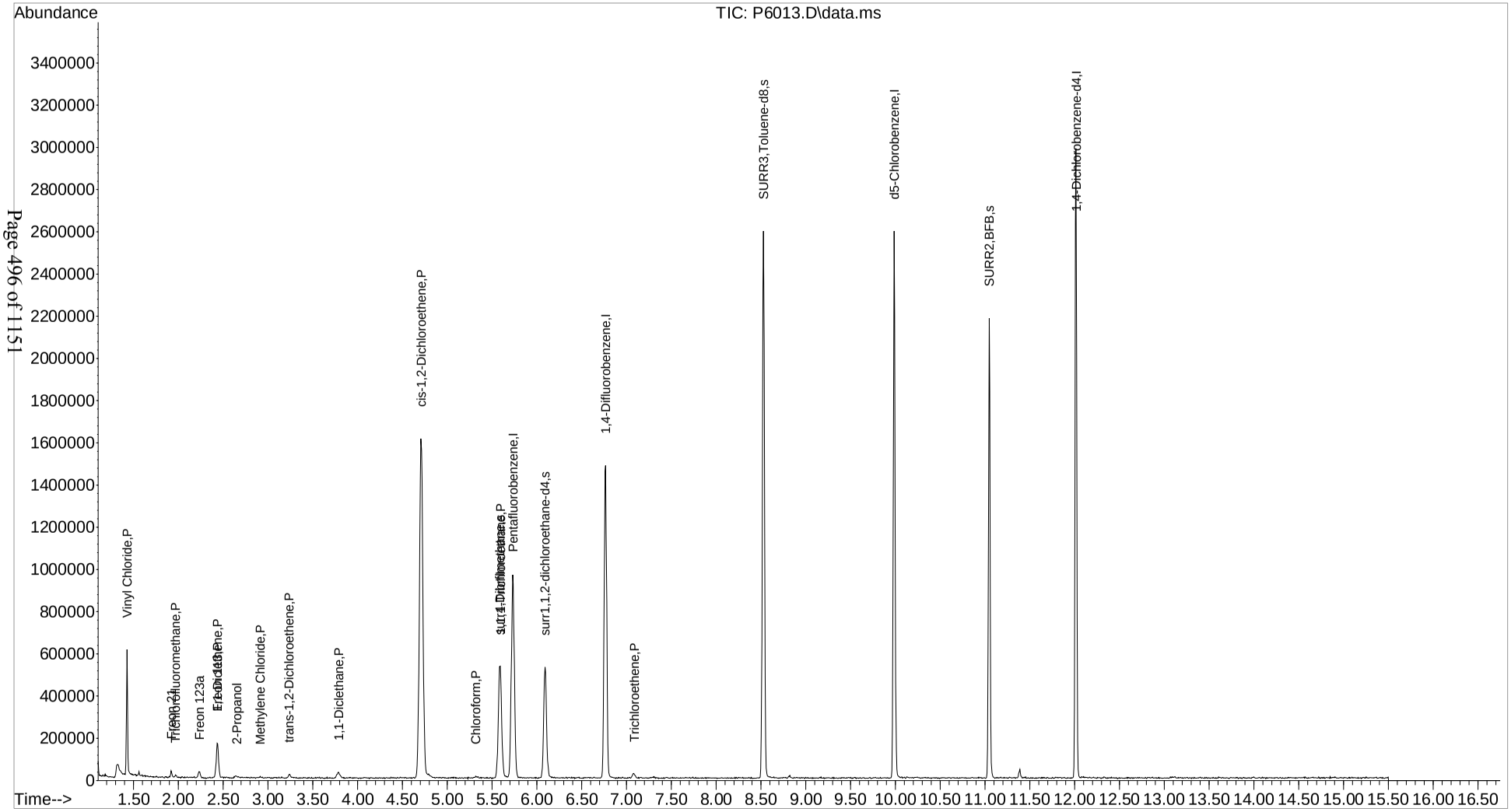
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	780511	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1274306	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1160368	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	600986	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	372587	54.78	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.56%				
48) surr1,1,2-dichloroetha...	6.090	65	424750	54.98	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.96%				
65) SURR3,Toluene-d8	8.529	98	1558607	55.93	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.86%				
70) SURR2,BFB	11.047	95	568986	52.33	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.66%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	323364	52.37	ppb		97
7) Freon 21	1.920	67	15446	1.89	ppb		96
8) Trichlorofluoromethane	1.969	101	6576	0.92	ppb		84
10) Freon 123a	2.231	67	11281	2.27	ppb	#	80
13) 1,1-Diclethene	2.432	96	3443	0.63	ppb	#	58
14) Freon 113	2.432	101	62143	10.80	ppb		88
16) 2-Propanol	2.646	45	8612	31.72	ppb		80
22) Methylene Chloride	2.914	84	1527	0.27	ppb	#	57
26) trans-1,2-Dichloroethene	3.237	96	5237	0.86	ppb		99
28) 1,1-Diclethane	3.786	63	27250	2.69	ppb		92
34) cis-1,2-Dichloroethene	4.706	96	1013152	162.67	ppb		95
40) Chloroform	5.316	83	5458m	0.55	ppb		
41) 1,1,1-Trichloroethane	5.590	97	48049	5.28	ppb		95
54) Trichloroethene	7.084	130	7416	1.10	ppb	#	80

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

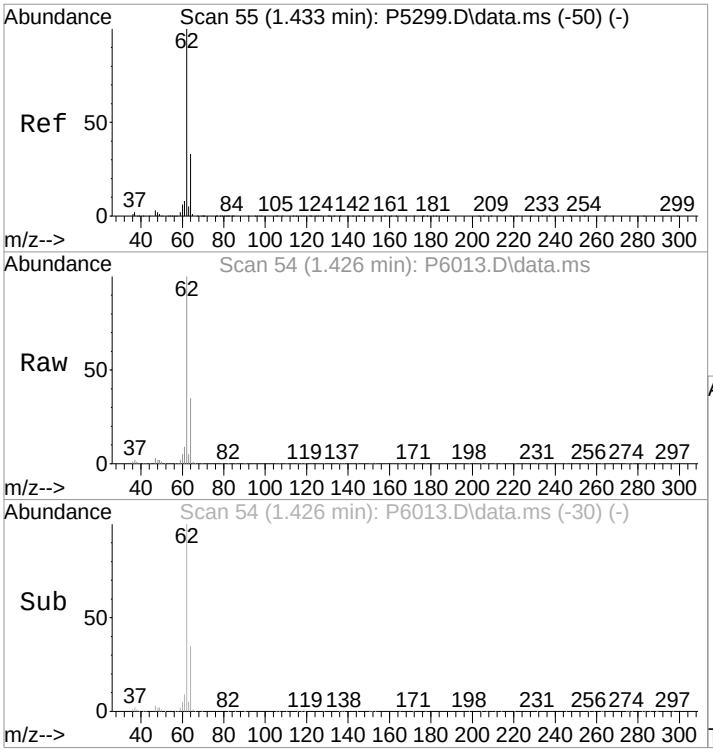
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6013.D
Acq On : 27 Oct 2016 5:53 pm
Operator : K.Ruest
Sample : R1611185-017|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 28 11:18:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



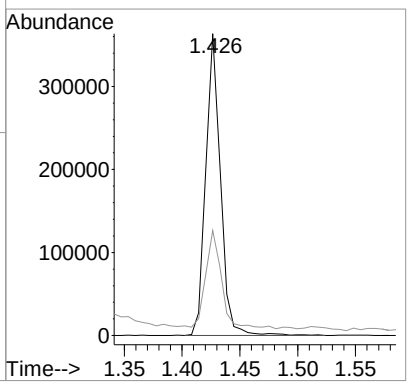
1st 10/28/16
2nd 10/31/16

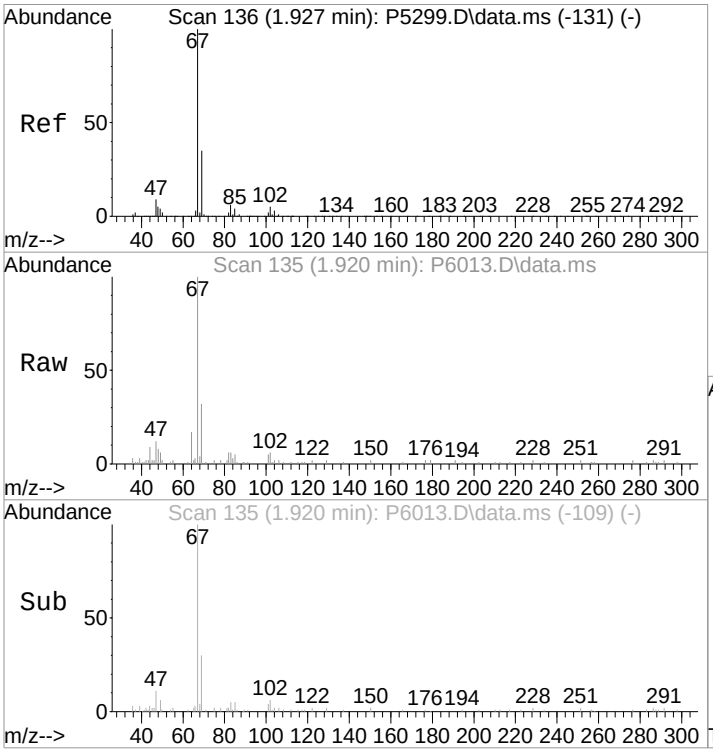


#4
Vinyl Chloride
Concen: 52.37 ppb
RT: 1.426 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 62 Resp: 323364

Ion	Ratio	Lower	Upper
62	100		
64	34.8	13.1	53.1

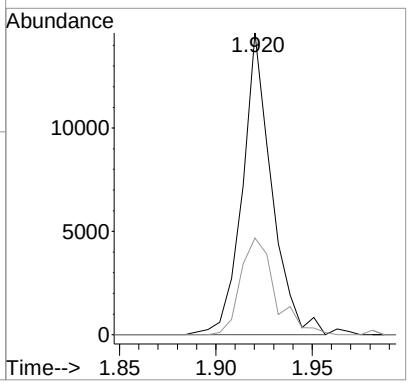


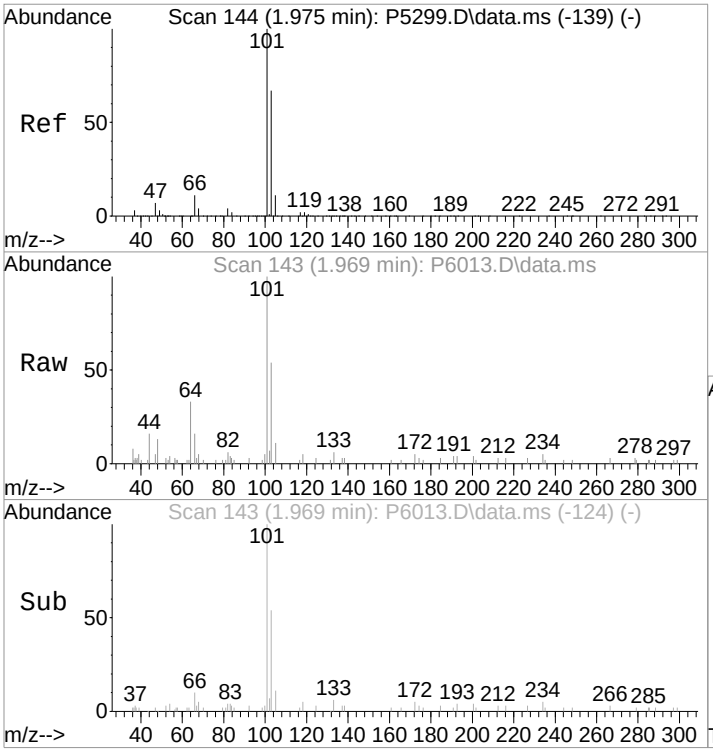


#7
Freon 21
Concen: 1.89 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 67 Resp: 15446

Ion	Ratio	Lower	Upper
67	100		
69	32.1	14.4	54.4

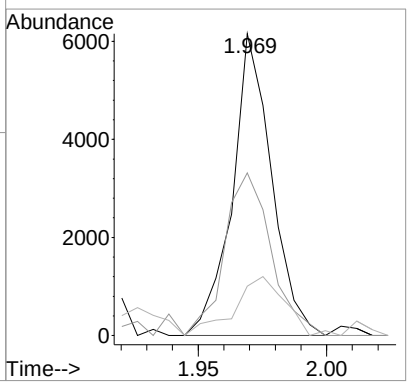


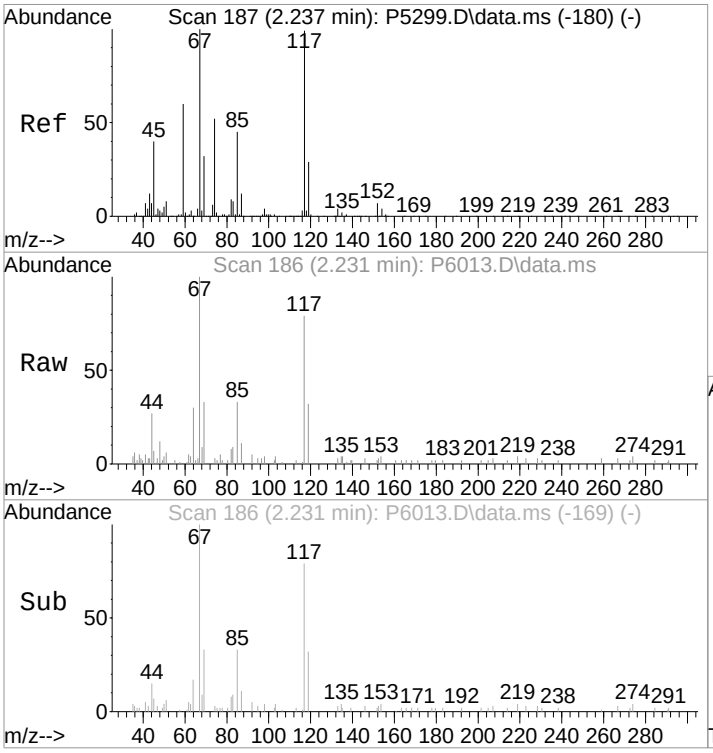


#8
Trichlorofluoromethane
Concen: 0.92 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion:101 Resp: 6576

Ion	Ratio	Lower	Upper
101	100		
103	53.8	47.3	87.3
66	16.4	0.0	31.5

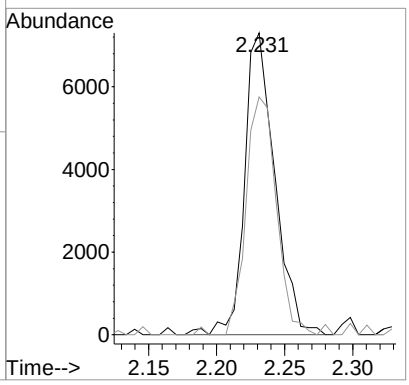


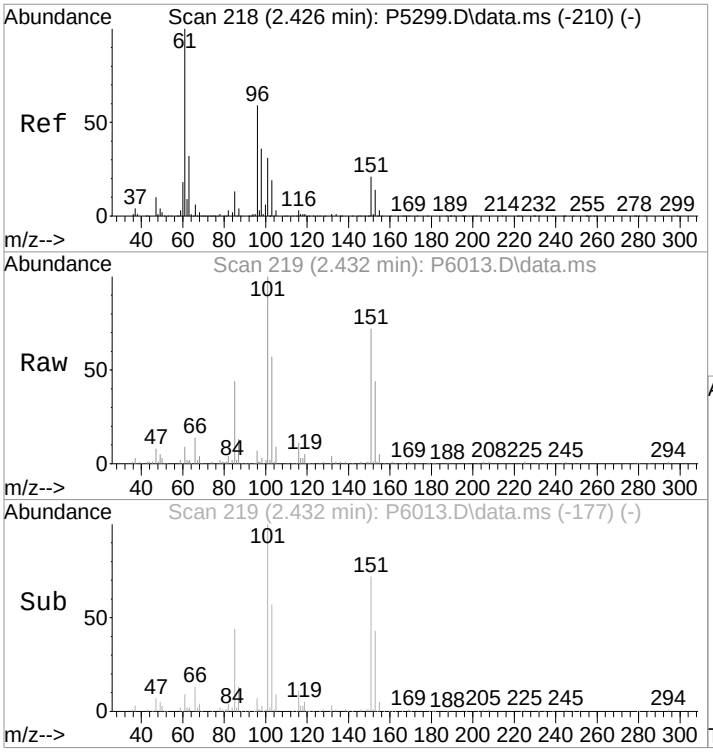


#10
Freon 123a
Concen: 2.27 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 67 Resp: 11281

Ion	Ratio	Lower	Upper
67	100		
117	78.8	78.8	118.8#

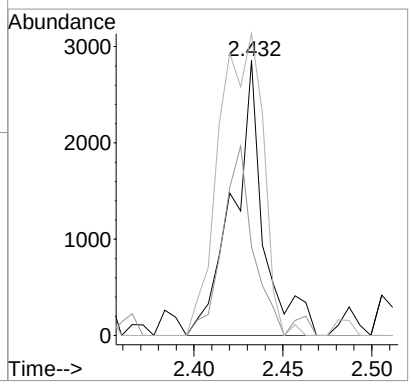


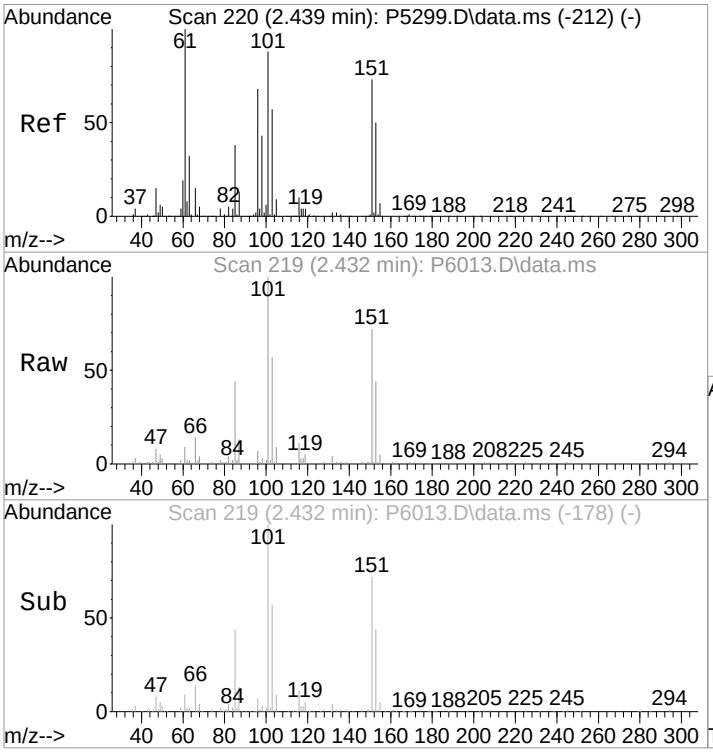


#13
1,1-Diclethene
Concen: 0.63 ppb
RT: 2.432 min Scan# 219
Delta R.T. 0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 96 Resp: 3443

Ion	Ratio	Lower	Upper
96	100		
98	32.3	41.8	81.8#
61	109.9	150.1	190.1#

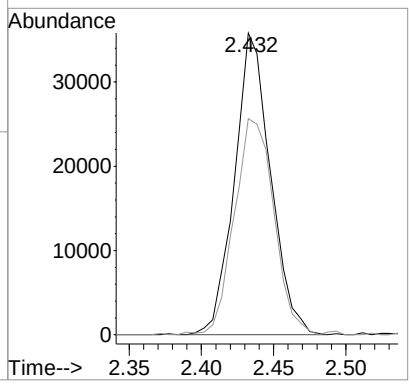


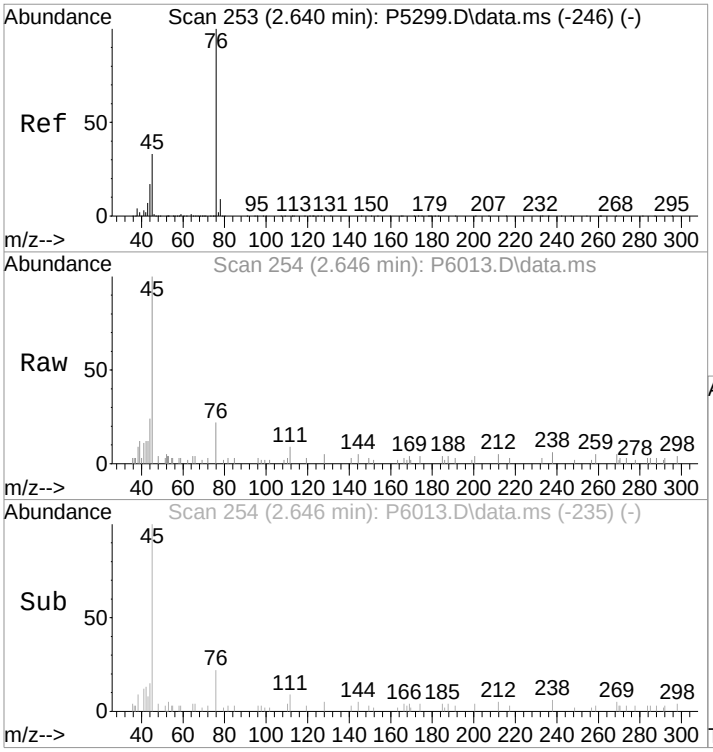


#14
Freon 113
Concen: 10.80 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion:101 Resp: 62143

Ion	Ratio	Lower	Upper
101	100		
151	71.6	62.6	102.6

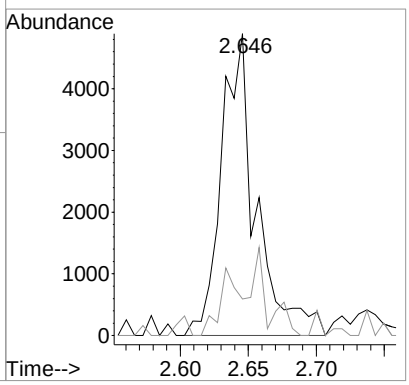


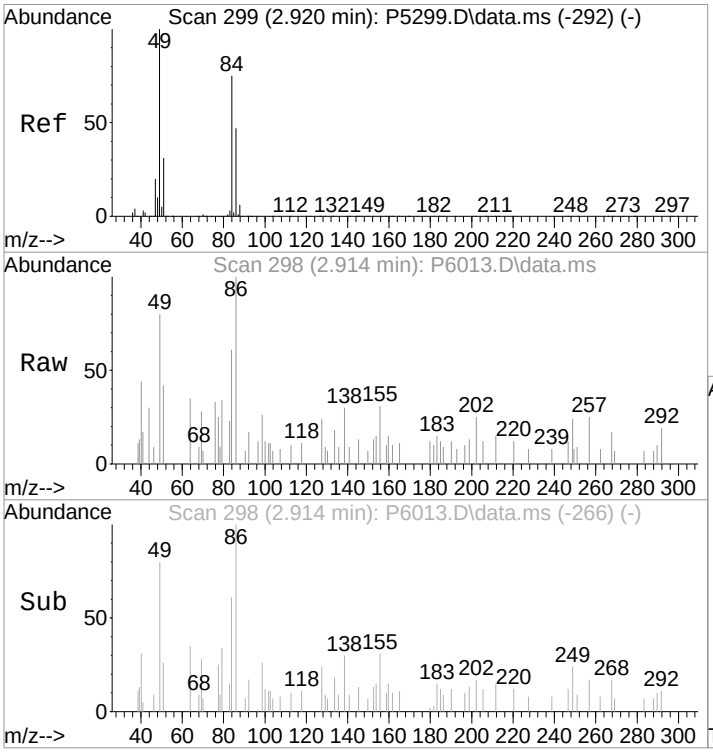


#16
2-Propanol
Concen: 31.72 ppb
RT: 2.646 min Scan# 254
Delta R.T. 0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 45 Resp: 8612

Ion	Ratio	Lower	Upper
45	100		
43	12.1	1.6	41.6

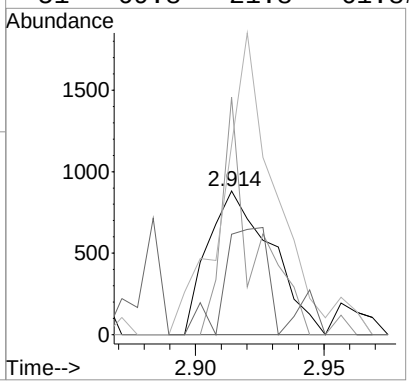


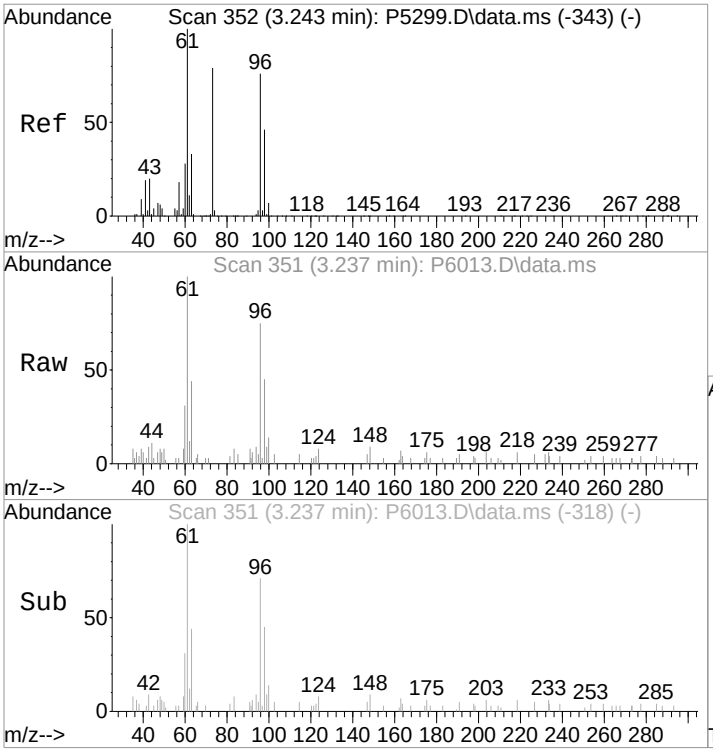


#22
Methylene Chloride
Concen: 0.27 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 84 Resp: 1527

Ion	Ratio	Lower	Upper
84	100		
86	165.2	42.8	82.8#
49	132.1	113.9	153.9
51	69.8	21.8	61.8#

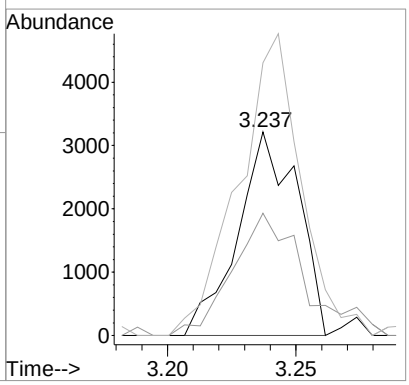


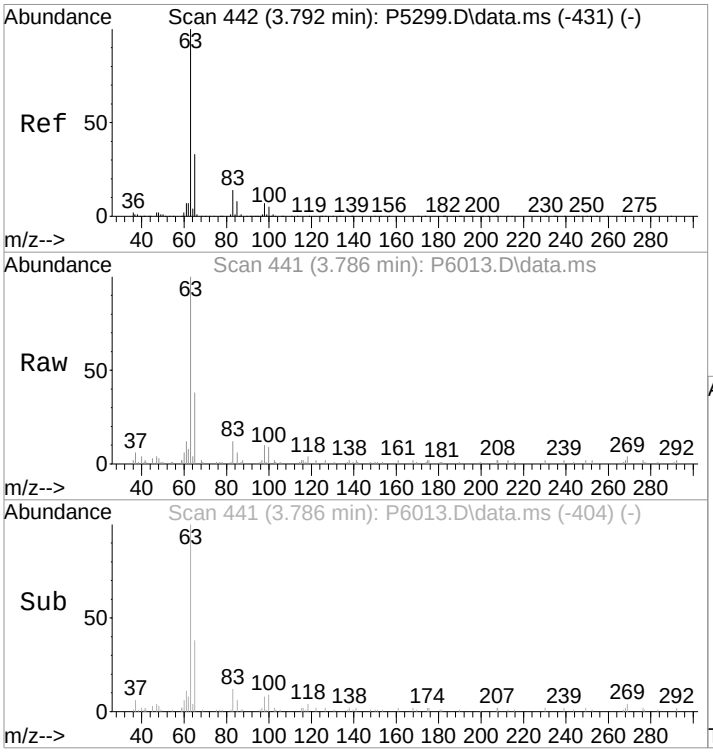


#26
trans-1,2-Dichloroethene
Concen: 0.86 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 96 Resp: 5237

Ion	Ratio	Lower	Upper
96	100		
98	60.0	41.0	81.0
61	133.8	112.4	152.4

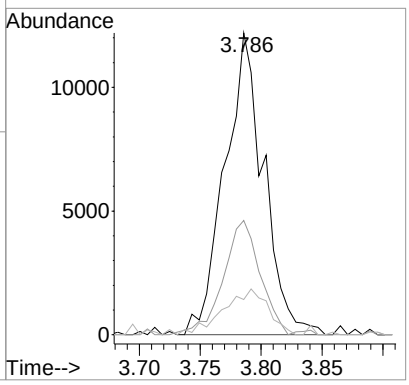


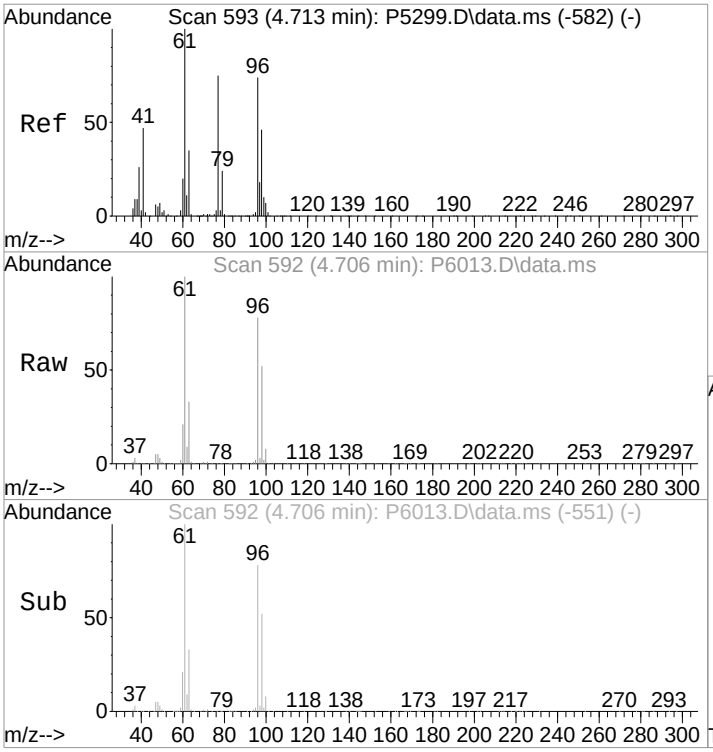


#28
1,1-Diclethane
Concen: 2.69 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 63 Resp: 27250

Ion	Ratio	Lower	Upper
63	100		
65	37.9	12.9	52.9
83	11.7	0.0	33.5

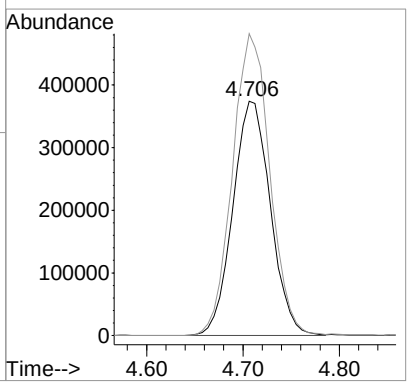


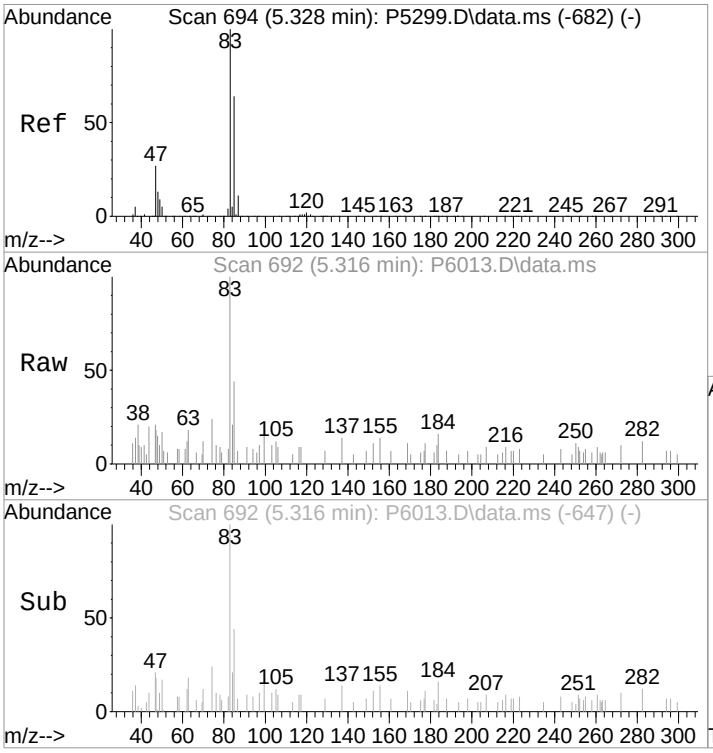


#34
cis-1,2-Dichloroethene
Concen: 162.67 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 96 Resp: 1013152

Ion	Ratio	Lower	Upper
96	100		
61	128.9	114.6	154.6

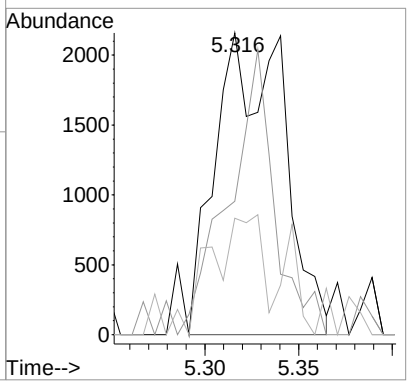


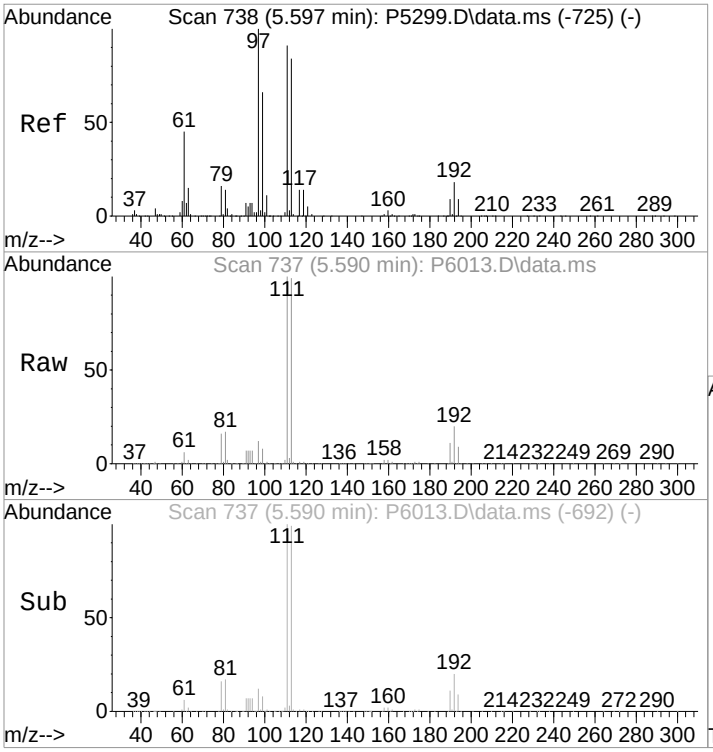


#40
Chloroform
Concen: 0.55 ppb m
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 83 Resp: 5458

Ion	Ratio	Lower	Upper
83	100		
85	44.2	44.1	84.1
47	21.1	7.4	47.4

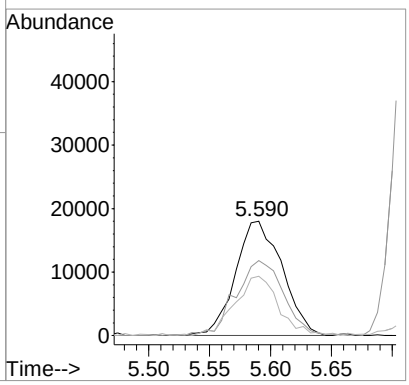


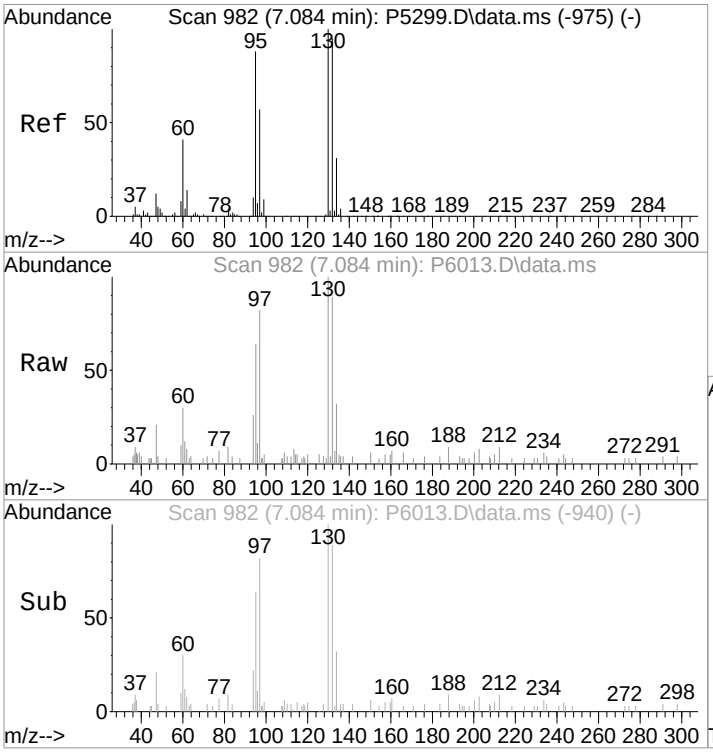


#41
1,1,1-Trichloroethane
Concen: 5.28 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion: 97 Resp: 48049

Ion	Ratio	Lower	Upper
97	100		
99	65.5	46.2	86.2
61	51.9	25.3	65.3

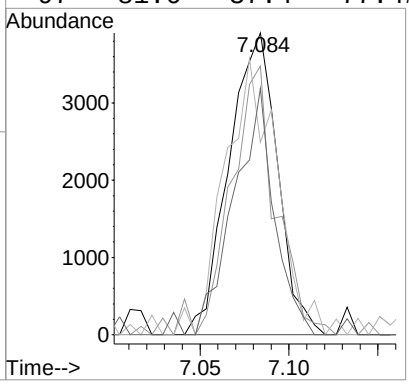




#54
Trichloroethene
Concen: 1.10 ppb
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P6013.D
Acq: 27 Oct 2016 5:53 pm

Tgt Ion:130 Resp: 7416

Ion	Ratio	Lower	Upper
130	100		
132	89.1	75.2	115.2
95	63.7	68.1	108.1#
97	81.6	37.4	77.4#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5954.D
Acq On : 26 Oct 2016 10:51 am
Operator : K.Ruest
Sample : R1611185-018|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 12:07:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

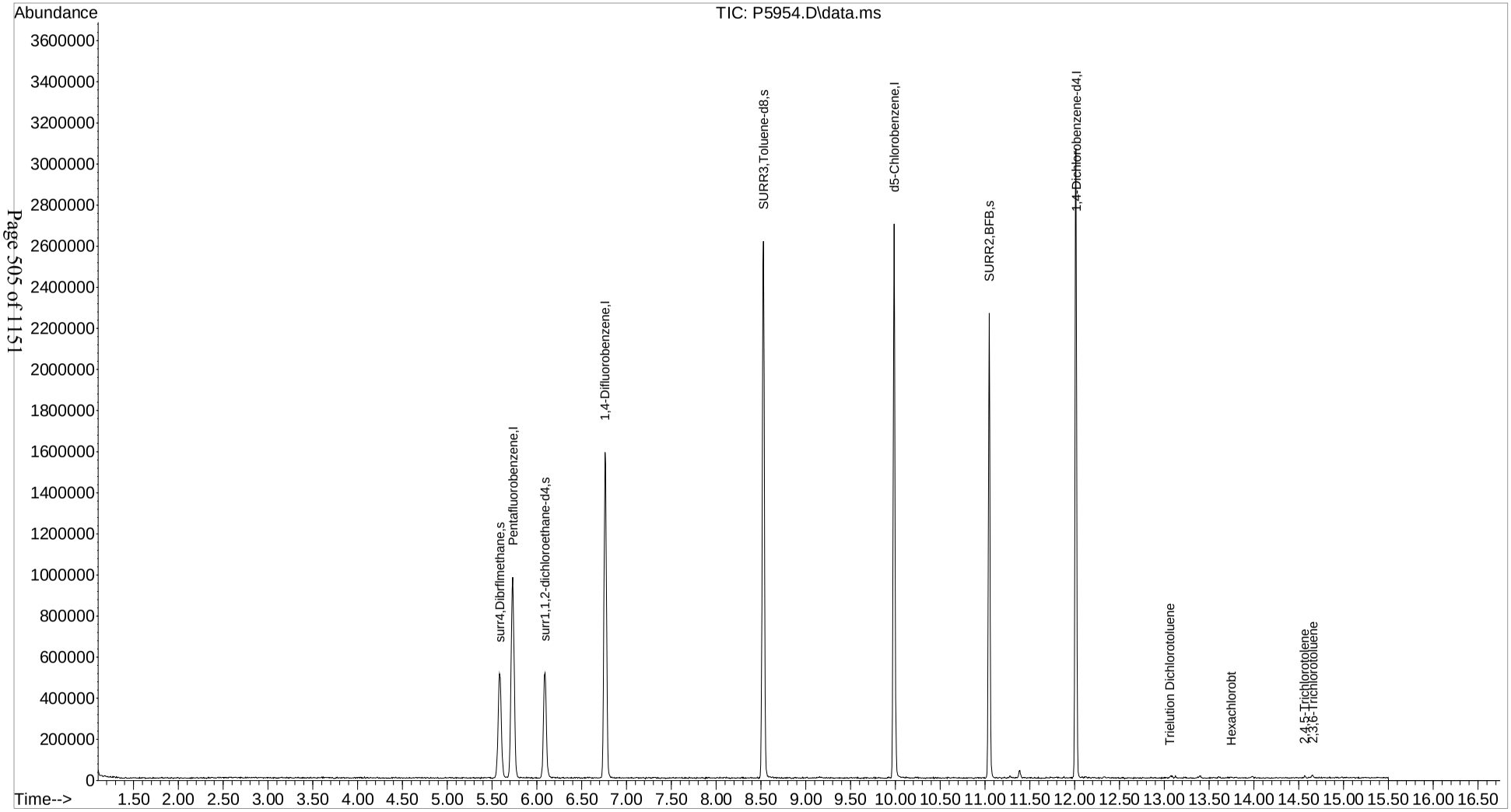
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	820432	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.761	114	1335038	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1220268	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	616225	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.584	113	386883	54.30	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.60%			
48) surr1,1,2-dichloroetha...	6.090	65	410916	50.77	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.54%			
65) SURR3,Toluene-d8	8.529	98	1621871	55.55	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.10%			
70) SURR2,BFB	11.047	95	594906	52.23	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.46%			
Target Compounds						Qvalue
112) Trielution Dichlorotol...	13.058	125	3563	0.30	ppb	# 64
116) Hexachlorobt	13.747	225	1024	0.25	ppb	# 47
119) 2,4,5-Trichlorotolene	14.564	159	2254	0.39	ppb	# 56
120) 2,3,6-Trichlorotoluene	14.656	159	2502	0.47	ppb	# 78

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

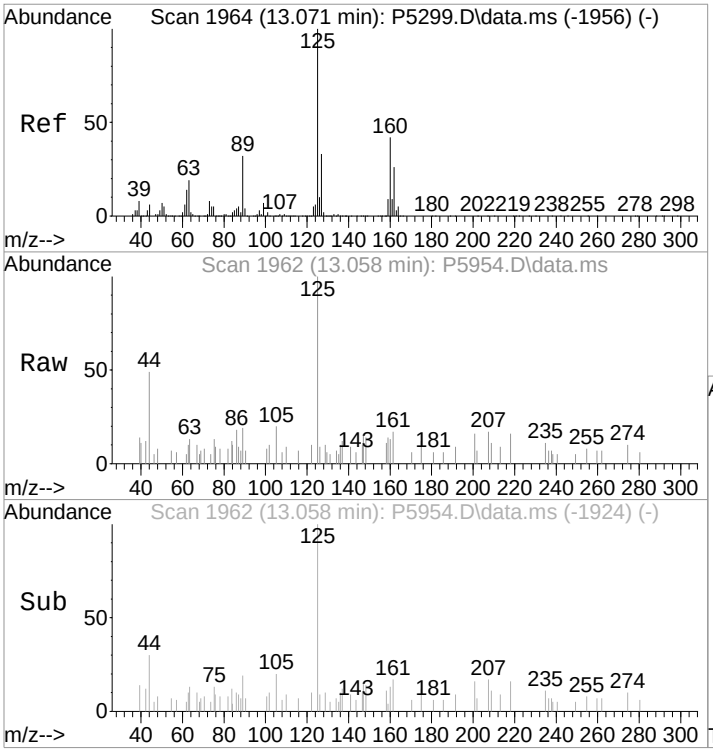
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5954.D
Acq On : 26 Oct 2016 10:51 am
Operator : K.Ruest
Sample : R1611185-018|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 12:07:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



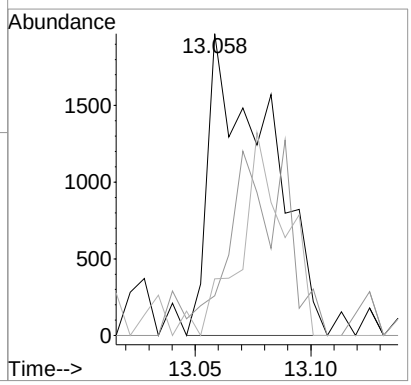
1st 10/26/16
2nd 10/27/16

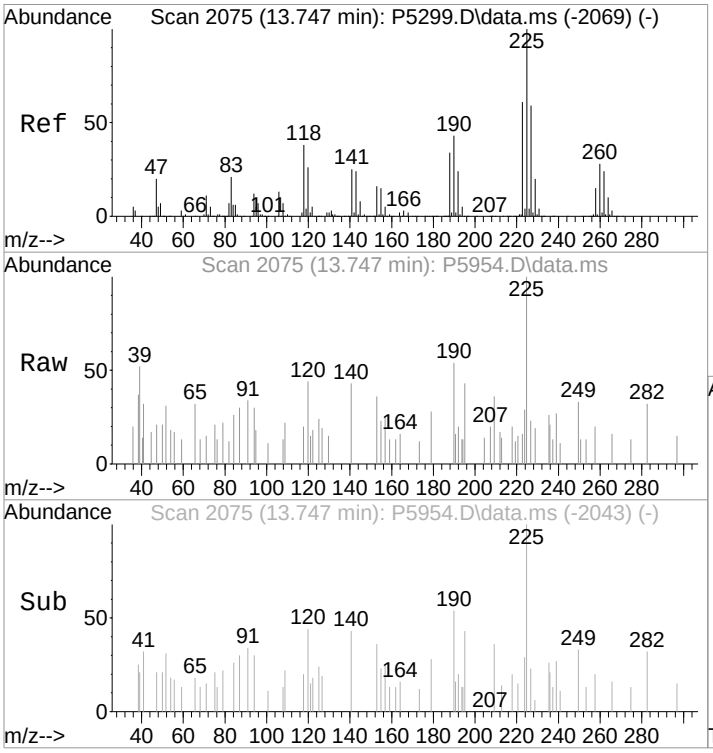


#112
Trielution Dichlorotoluene
Concen: 0.30 ppb
RT: 13.058 min Scan# 1962
Delta R.T. -0.018 min
Lab File: P5954.D
Acq: 26 Oct 2016 10:51 am

Tgt Ion:125 Resp: 3563

Ion	Ratio	Lower	Upper
125	100		
160	13.2	33.6	50.4#
89	18.7	25.8	38.8#

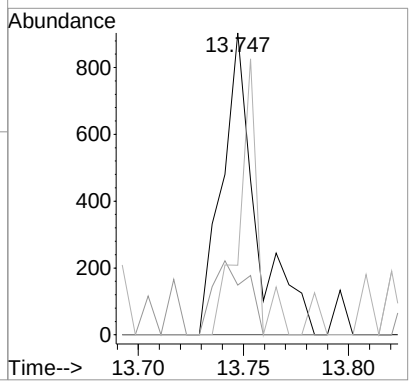


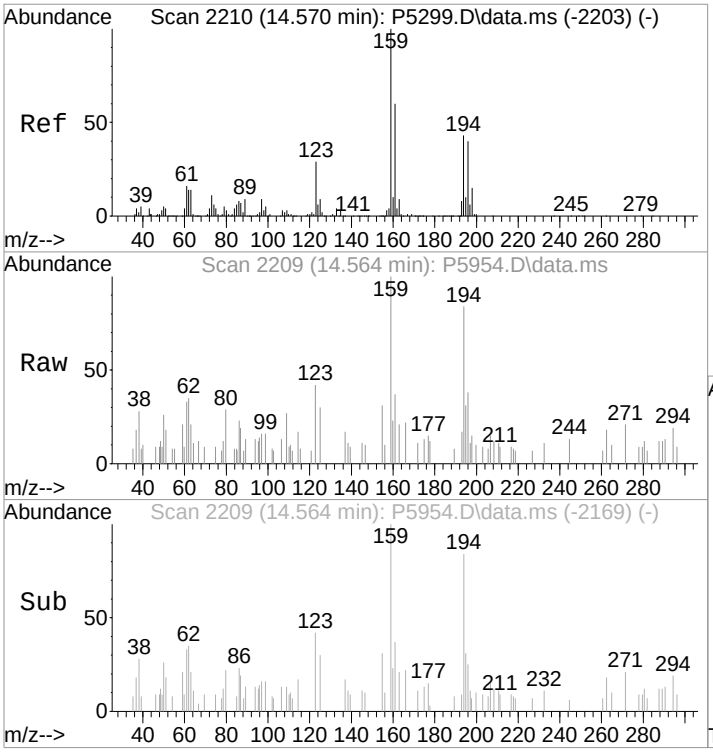


#116
Hexachlorobt
Concen: 0.25 ppb
RT: 13.747 min Scan# 2075
Delta R.T. -0.000 min
Lab File: P5954.D
Acq: 26 Oct 2016 10:51 am

Tgt Ion:225 Resp: 1024

Ion	Ratio	Lower	Upper
225	100		
223	16.5	41.4	81.4#
227	23.0	39.1	79.1#

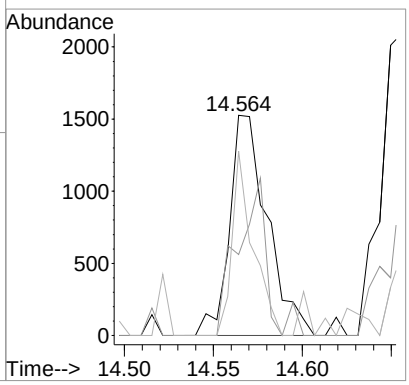


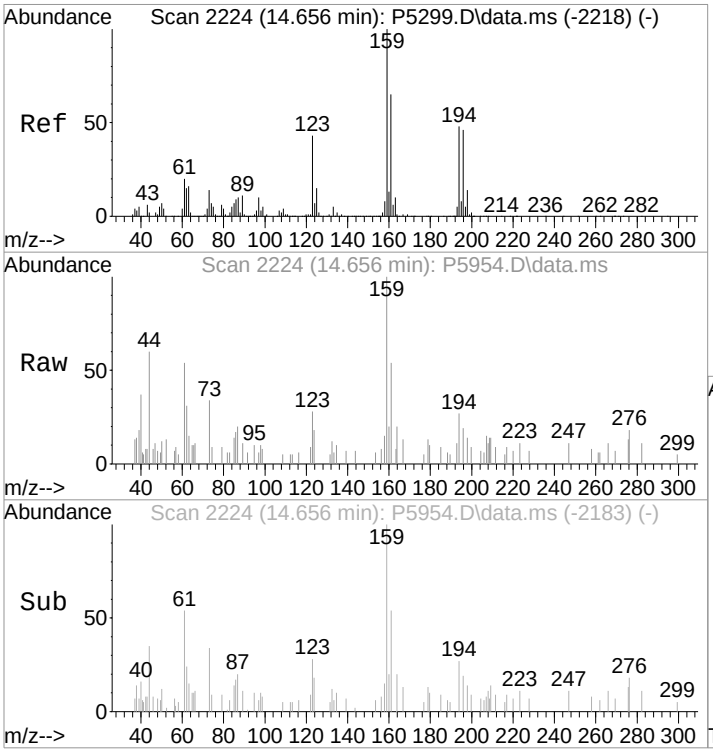


#119
2,4,5-Trichlorotolene
Concen: 0.39 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P5954.D
Acq: 26 Oct 2016 10:51 am

Tgt Ion:159 Resp: 2254

Ion	Ratio	Lower	Upper
159	100		
161	36.8	48.1	72.1#
194	83.7	34.5	51.7#

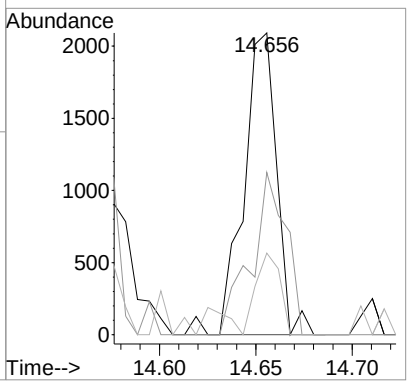




#120
2,3,6-Trichlorotoluene
Concen: 0.47 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P5954.D
Acq: 26 Oct 2016 10:51 am

Tgt Ion:159 Resp: 2502

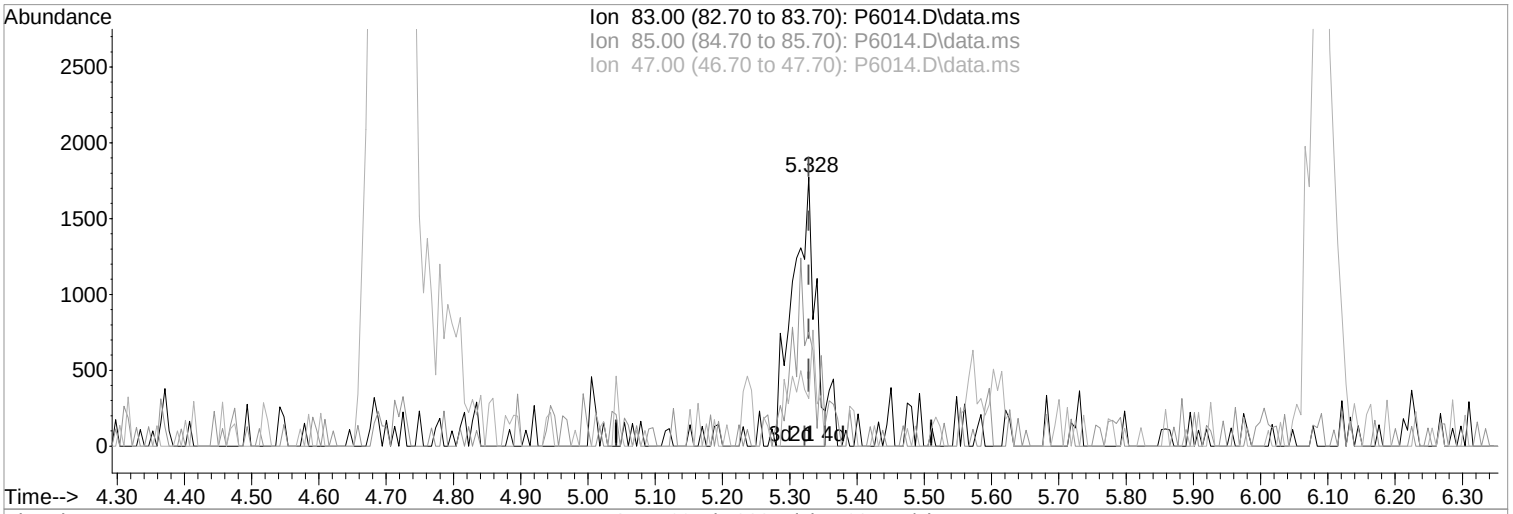
Ion	Ratio	Lower	Upper
159	100		
161	53.8	52.3	78.5
194	27.0	38.6	57.8#

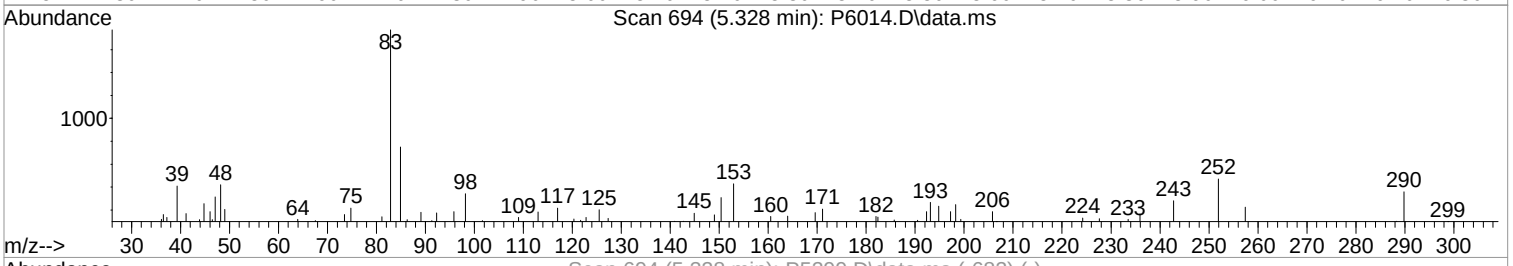


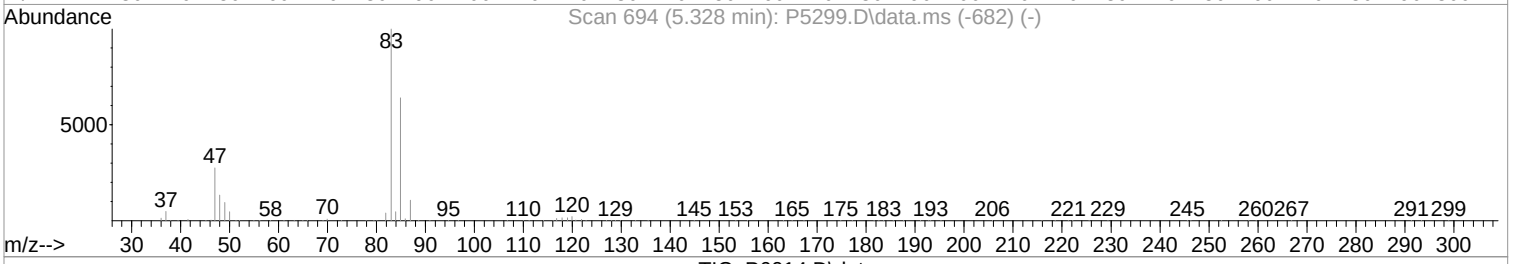
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6014.D
Acq On : 27 Oct 2016 6:23 pm
Operator : K.Ruest
Sample : R1611185-019|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 28 08:36:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6014.D\data.ms

(40) Chloroform (P)

5.328min (0.000) 0.41 ppb m

response 4064

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	42.28#
47.00	27.40	17.70
0.00	0.00	0.00

Manual Integration:

After

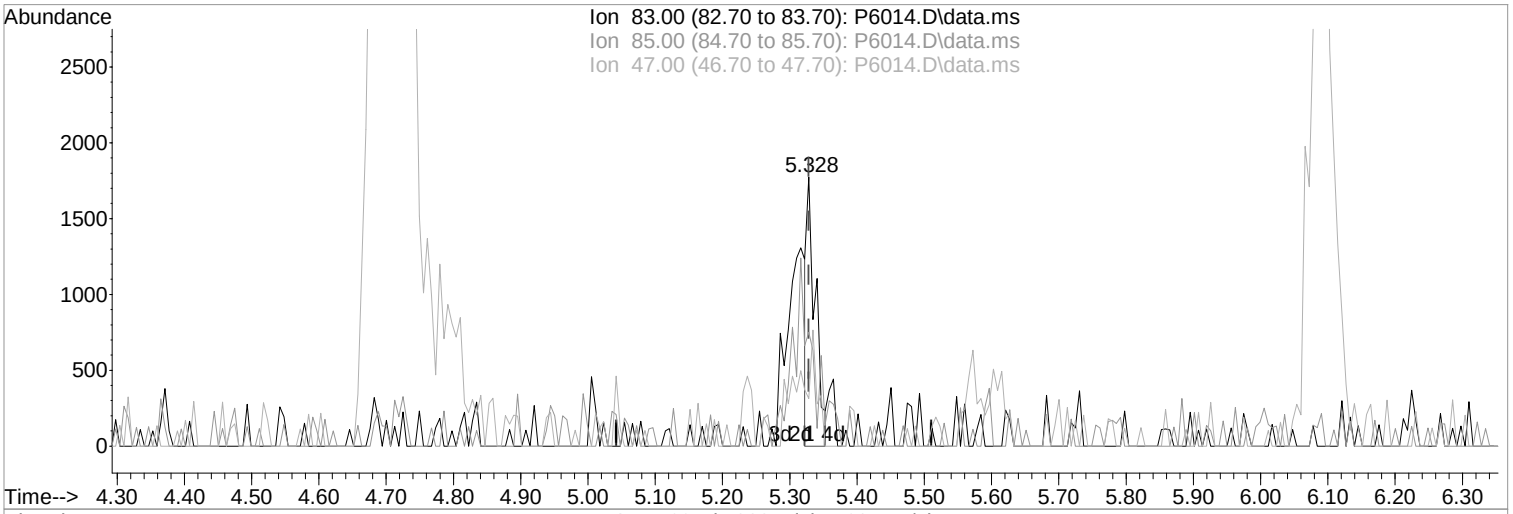
Split Peak

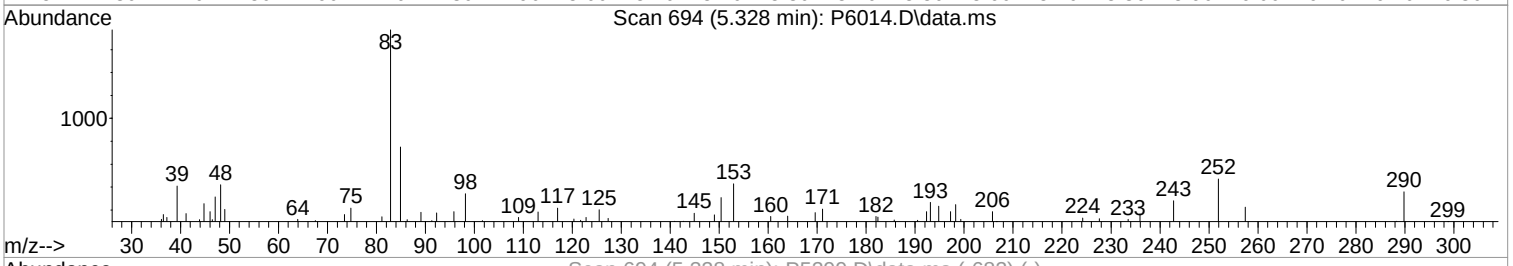
10/28/16

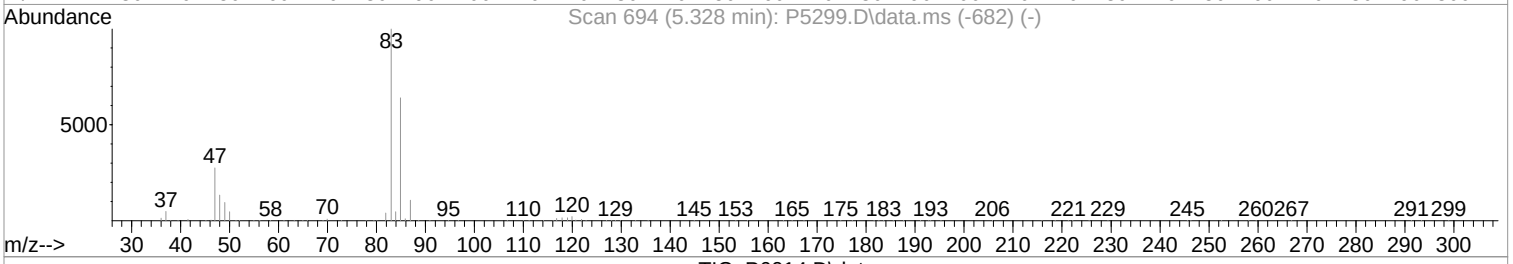
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6014.D
Acq On : 27 Oct 2016 6:23 pm
Operator : K.Ruest
Sample : R1611185-019|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 28 08:36:58 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6014.D\data.ms

(40) Chloroform (P)

5.328min (0.000) 0.16 ppb

response 1537

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	42.28#
47.00	27.40	17.70
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6014.D
Acq On : 27 Oct 2016 6:23 pm
Operator : K.Ruest
Sample : R1611185-019|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 28 11:29:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

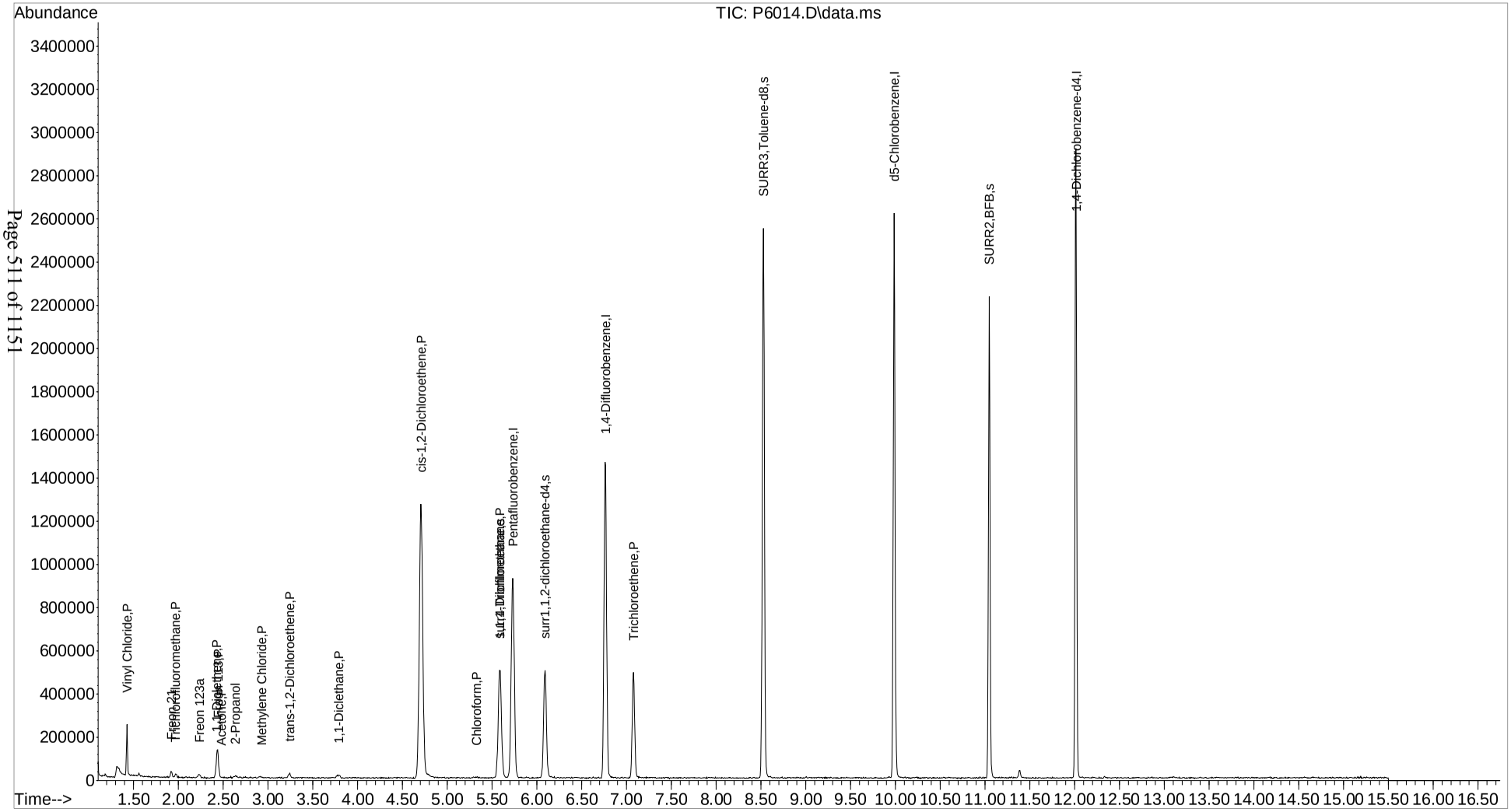
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	782639	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1281894	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1187964	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	592931	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	369013	53.94	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.88%				
48) surr1,1,2-dichloroetha...	6.090	65	400102	51.48	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.96%				
65) SURR3,Toluene-d8	8.529	98	1557318	55.55	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.10%				
70) SURR2,BFB	11.047	95	569508	52.07	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.14%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	118247	19.10	ppb		87
6) Chloroethane	1.774	64	960	Below Cal			71
7) Freon 21	1.921	67	17196	2.10	ppb		99
8) Trichlorofluoromethane	1.969	101	10422	1.45	ppb		82
10) Freon 123a	2.231	67	5420	1.09	ppb		96
13) 1,1-Diclethene	2.420	96	2876	0.53	ppb	#	68
14) Freon 113	2.439	101	47910	8.30	ppb		89
15) Acetone	2.481	43	1911	1.50	ppb		62
16) 2-Propanol	2.634	45	8809	32.36	ppb		97
22) Methylene Chloride	2.926	84	2409	0.42	ppb	#	55
26) trans-1,2-Dichloroethene	3.243	96	7627	1.25	ppb	#	89
28) 1,1-Diclethane	3.786	63	16976	1.67	ppb		93
34) cis-1,2-Dichloroethene	4.707	96	805238	128.93	ppb		93
40) Chloroform	5.328	83	4064m	0.41	ppb		
41) 1,1,1-Trichloroethane	5.584	97	23292	2.55	ppb		96
54) Trichloroethene	7.078	130	166429	24.59	ppb		93

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

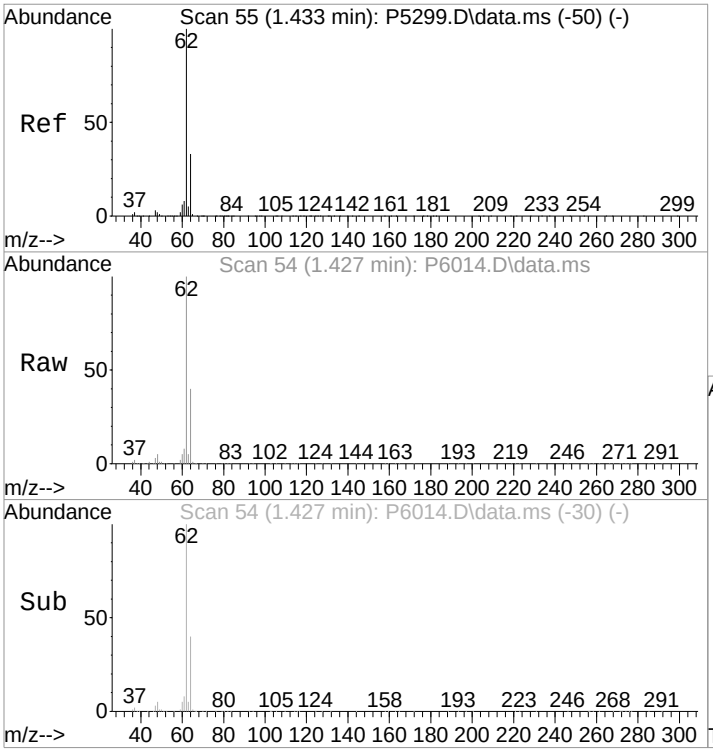
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6014.D
Acq On : 27 Oct 2016 6:23 pm
Operator : K.Ruest
Sample : R1611185-019|5.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 28 11:29:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



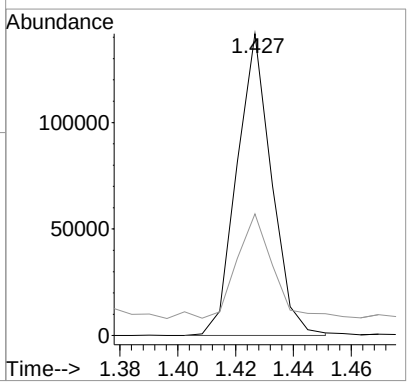
1st 10/28/16
2nd 10/31/16

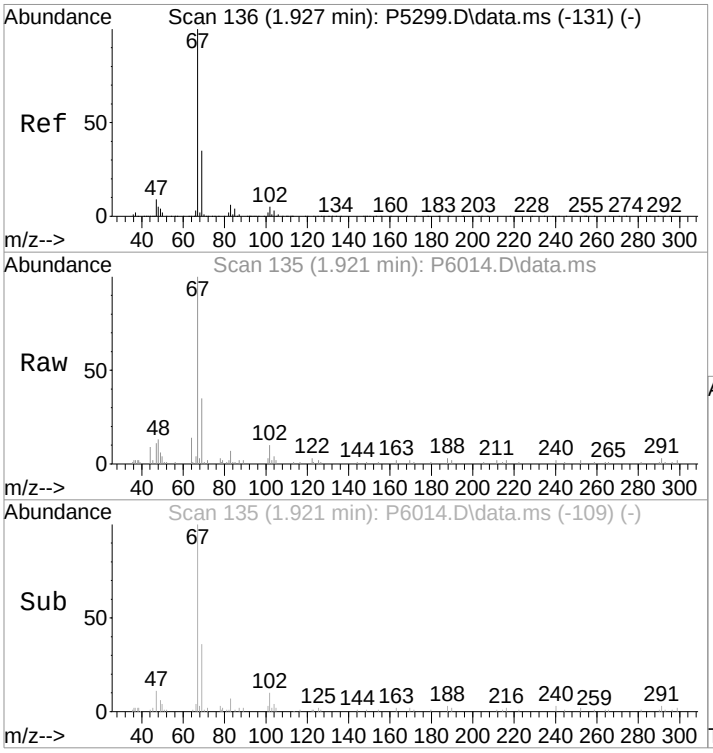


#4
Vinyl Chloride
Concen: 19.10 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 62 Resp: 118247

Ion	Ratio	Lower	Upper
62	100		
64	40.2	13.1	53.1

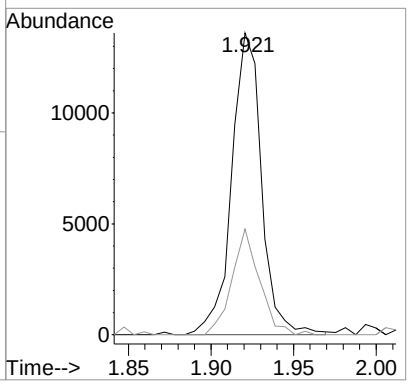


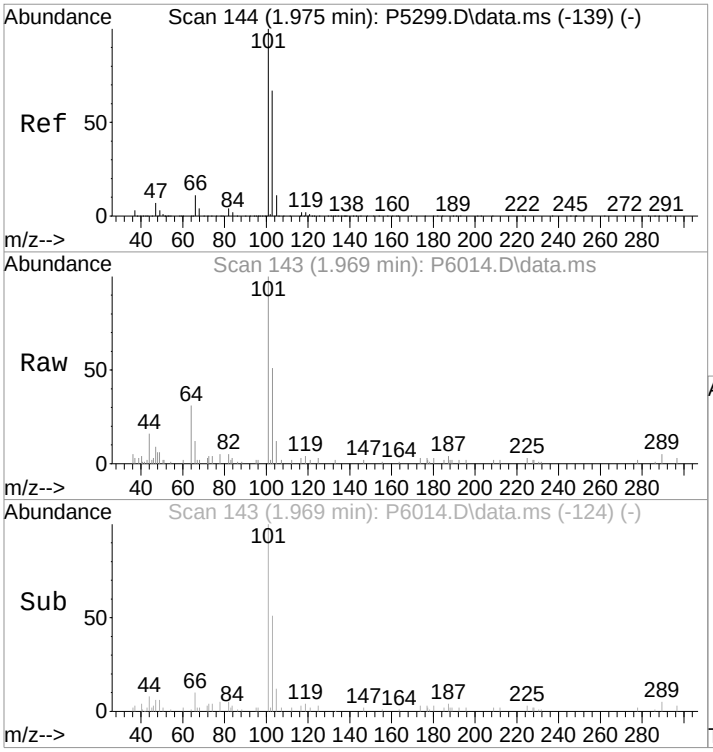


#7
Freon 21
Concen: 2.10 ppb
RT: 1.921 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 67 Resp: 17196

Ion	Ratio	Lower	Upper
67	100		
69	34.9	14.4	54.4

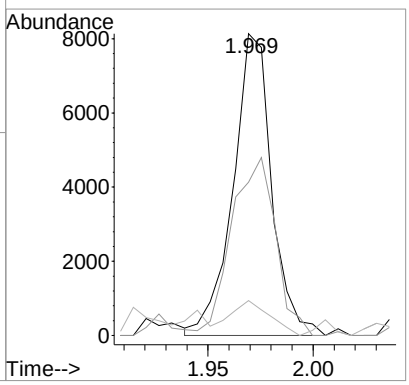


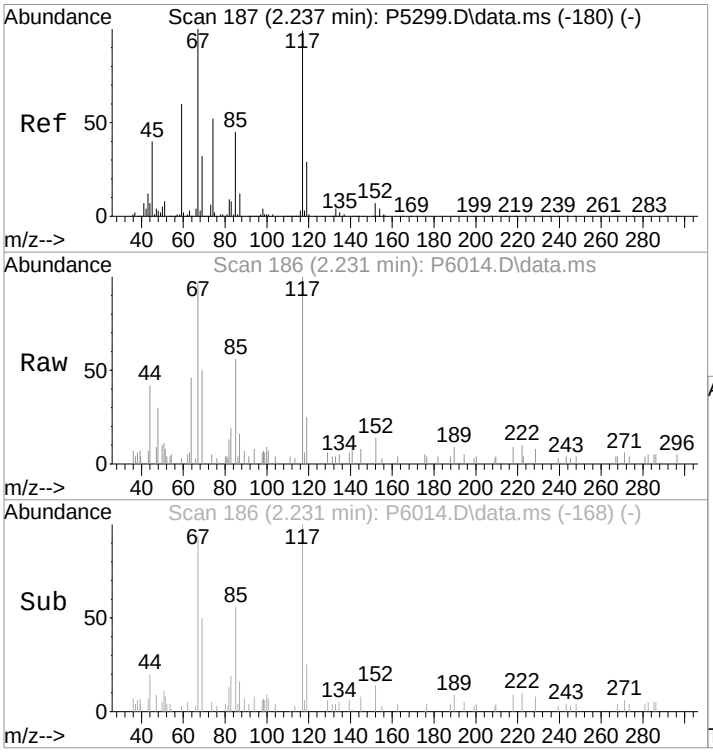


#8
Trichlorofluoromethane
Concen: 1.45 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion:101 Resp: 10422

Ion	Ratio	Lower	Upper
101	100		
103	50.7	47.3	87.3
66	11.6	0.0	31.5

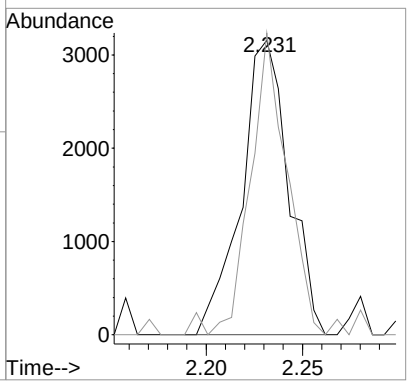


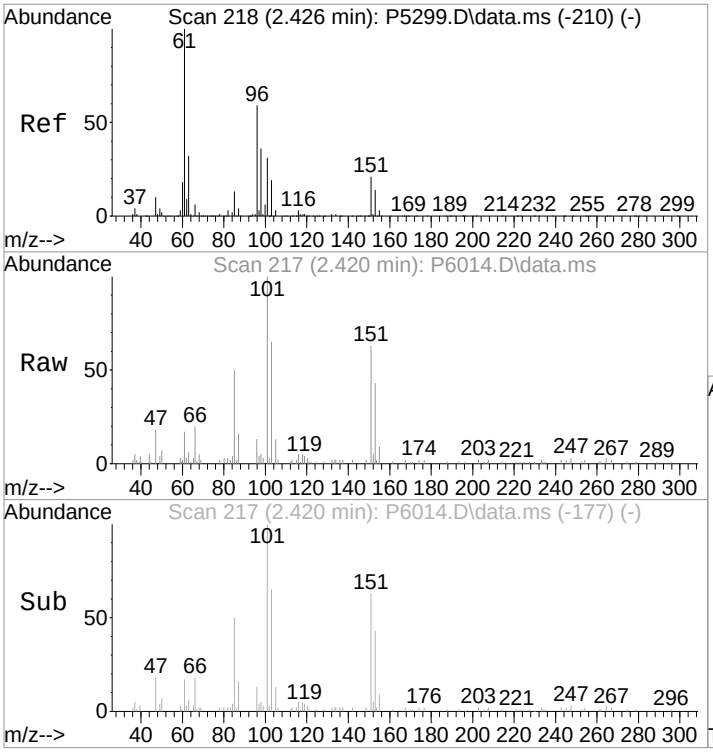


#10
Freon 123a
Concen: 1.09 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 67 Resp: 5420

Ion	Ratio	Lower	Upper
67	100		
117	102.6	78.8	118.8

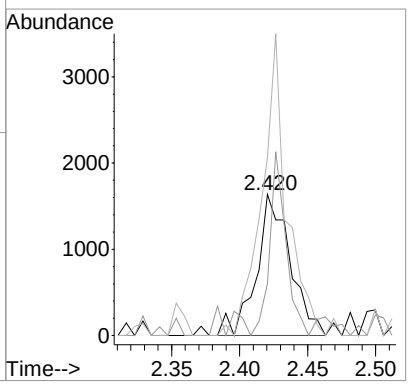


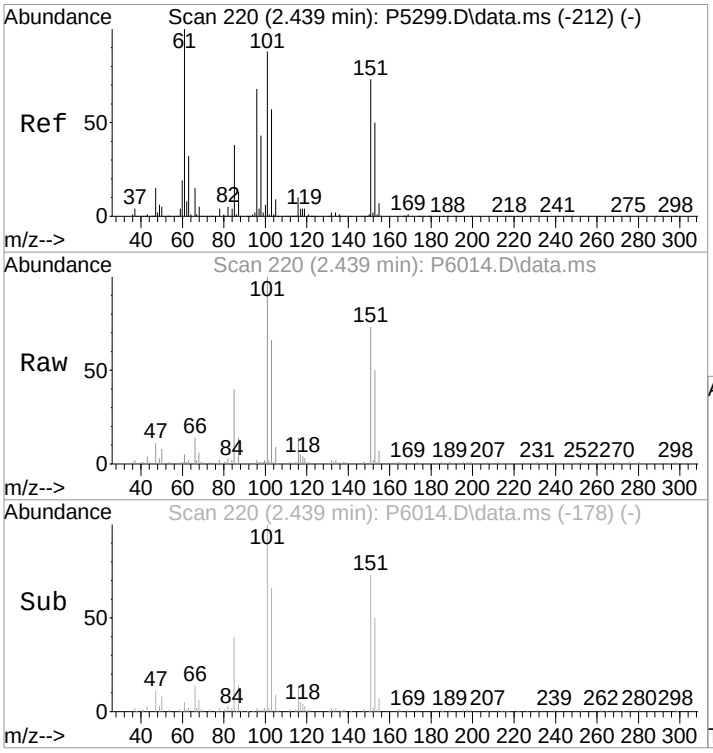


#13
1,1-Diclethene
Concen: 0.53 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 96 Resp: 2876

Ion	Ratio	Lower	Upper
96	100		
98	36.8	41.8	81.8#
61	125.8	150.1	190.1#

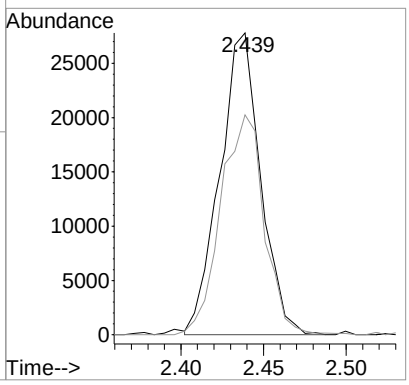


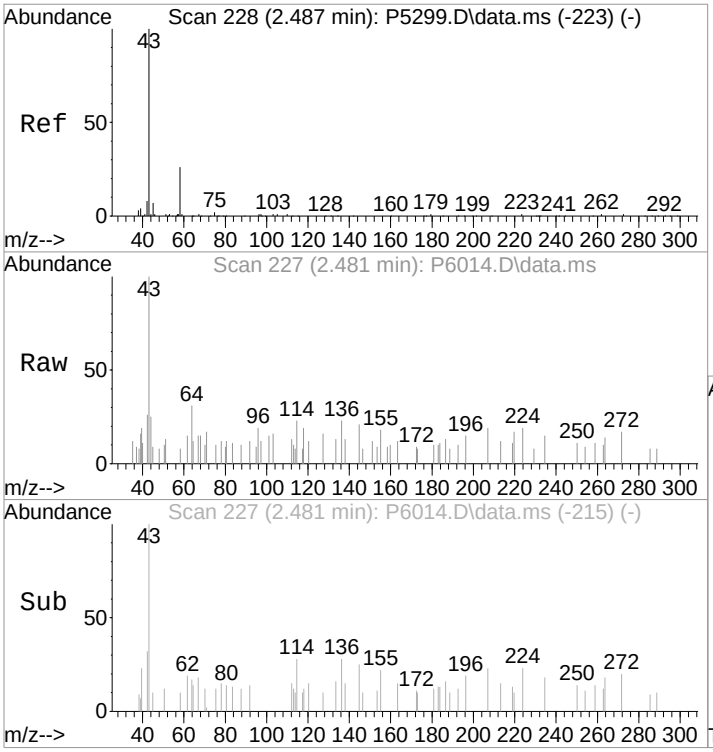


#14
Freon 113
Concen: 8.30 ppb
RT: 2.439 min Scan# 220
Delta R.T. 0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion:101 Resp: 47910

Ion	Ratio	Lower	Upper
101	100		
151	72.9	62.6	102.6

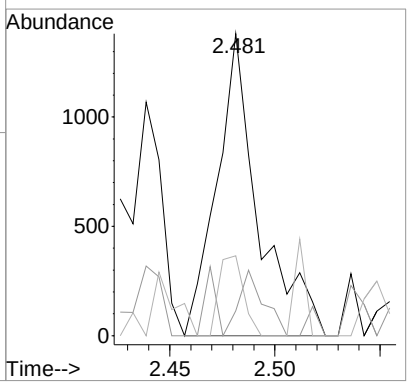


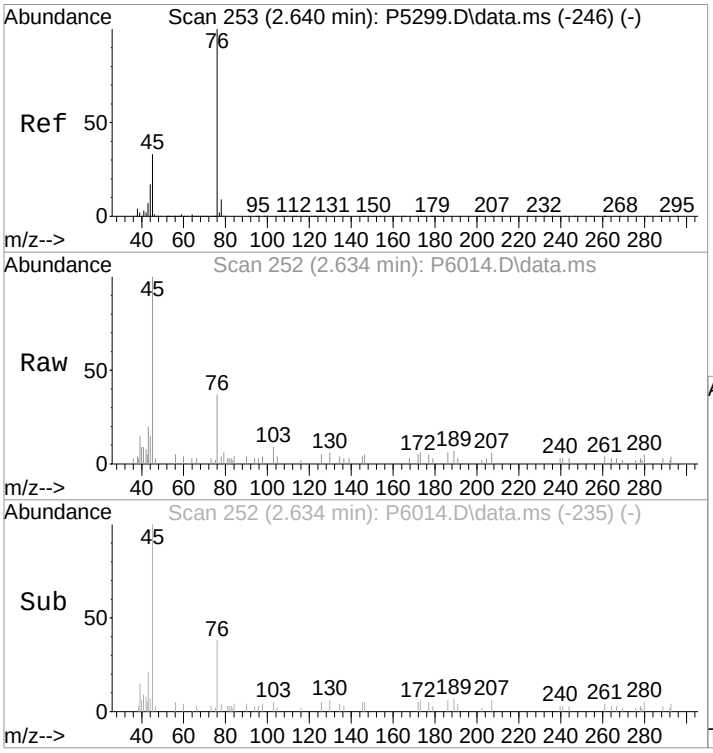


#15
Acetone
Concen: 1.50 ppb
RT: 2.481 min Scan# 227
Delta R.T. 0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 43 Resp: 1911

Ion	Ratio	Lower	Upper
43	100		
58	8.2	5.3	45.3
42	26.4	0.0	28.7

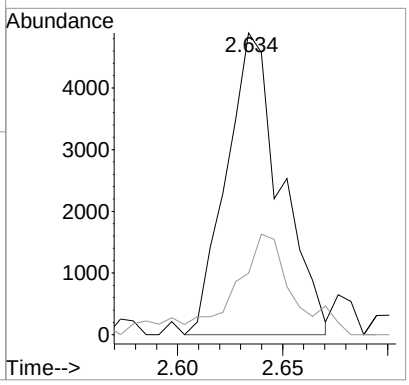


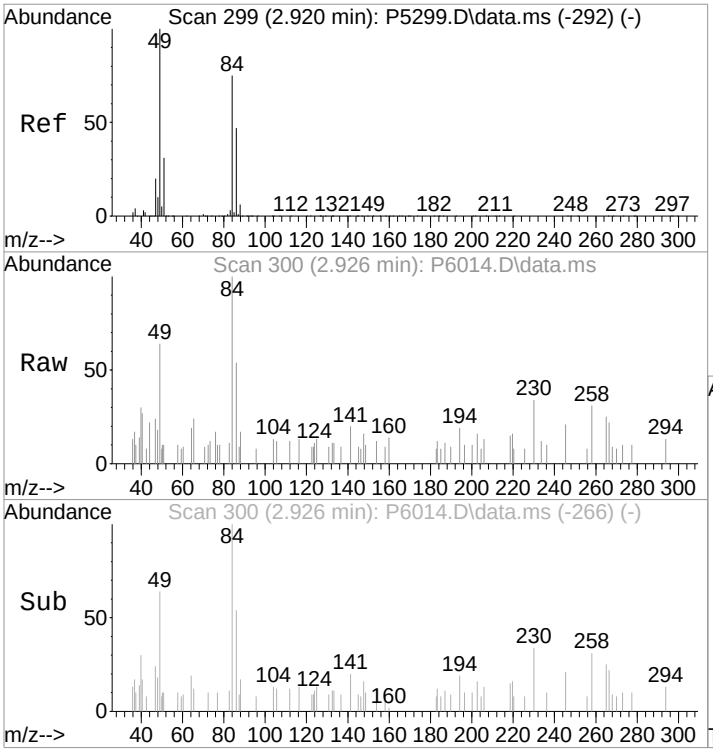


#16
2-Propanol
Concen: 32.36 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 45 Resp: 8809

Ion	Ratio	Lower	Upper
45	100		
43	20.4	1.6	41.6

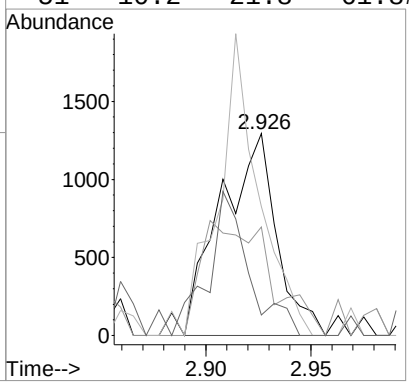


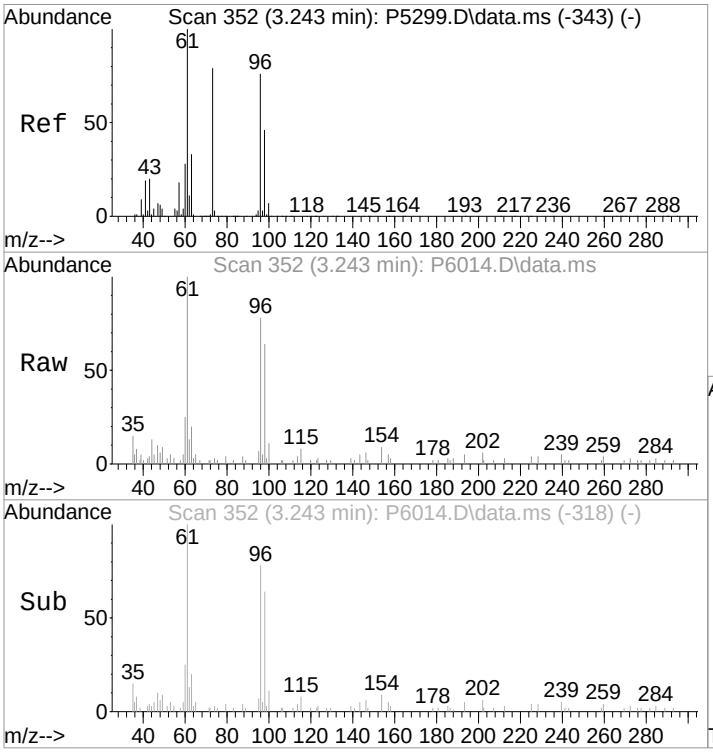


#22
Methylene Chloride
Concen: 0.42 ppb
RT: 2.926 min Scan# 300
Delta R.T. 0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 84 Resp: 2409

Ion	Ratio	Lower	Upper
84	100		
86	53.7	42.8	82.8
49	63.9	113.9	153.9#
51	10.2	21.8	61.8#

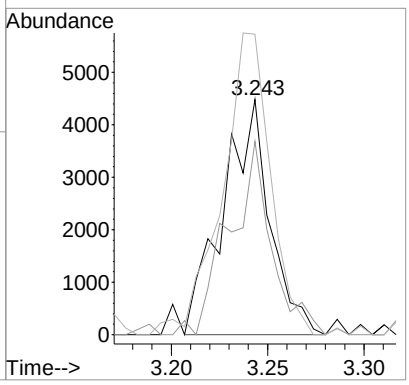


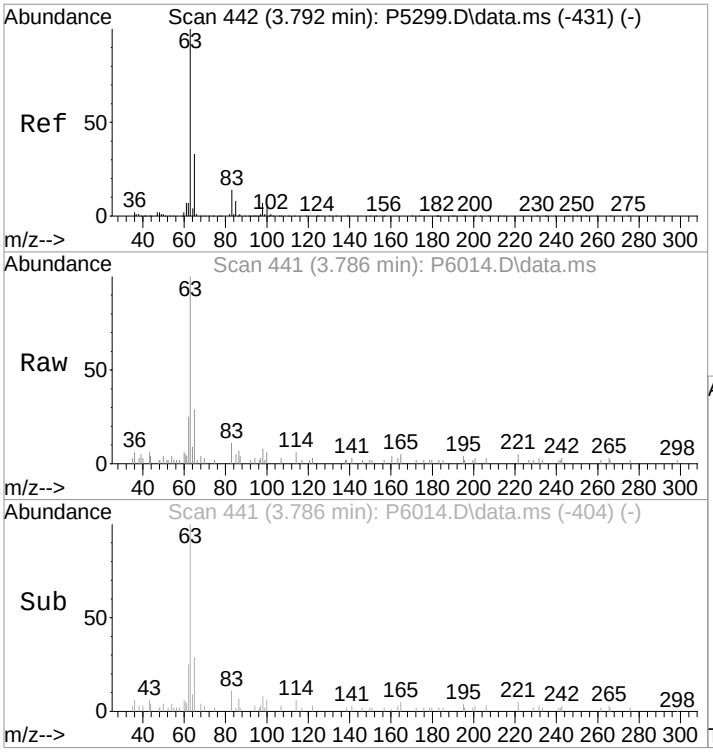


#26
trans-1,2-Dichloroethene
Concen: 1.25 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 96 Resp: 7627

Ion	Ratio	Lower	Upper
96	100		
98	82.2	41.0	81.0#
61	127.7	112.4	152.4

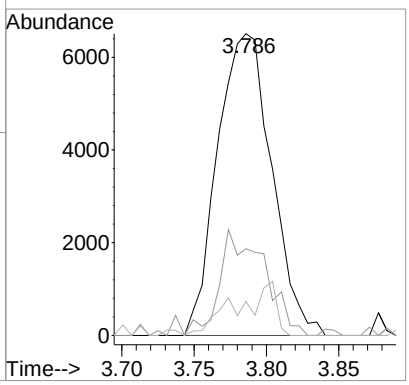


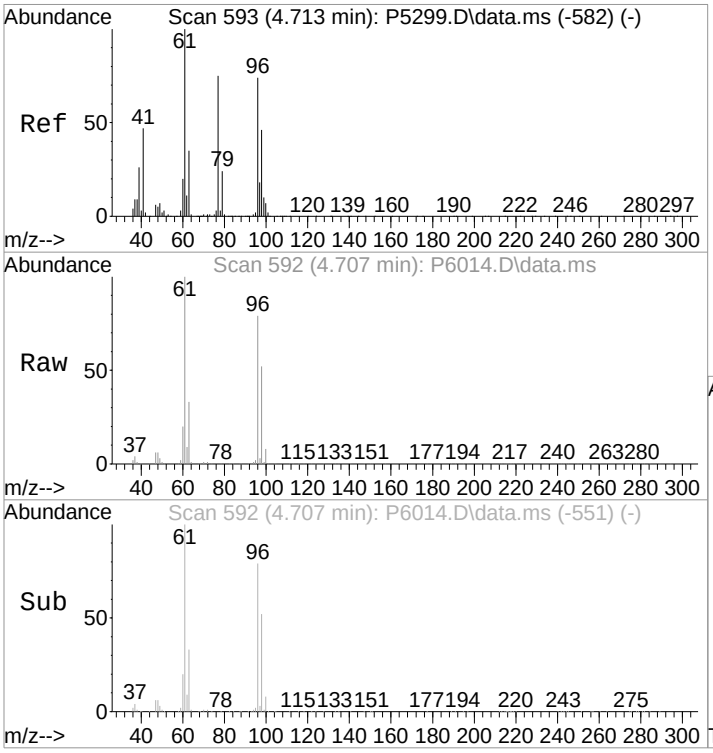


#28
1,1-Diclethane
Concen: 1.67 ppb
RT: 3.786 min Scan# 441
Delta R.T. 0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 63 Resp: 16976

Ion	Ratio	Lower	Upper
63	100		
65	28.8	12.9	52.9
83	11.3	0.0	33.5

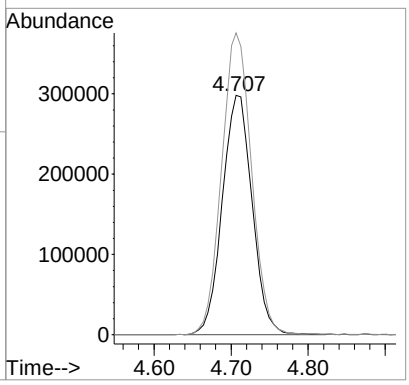


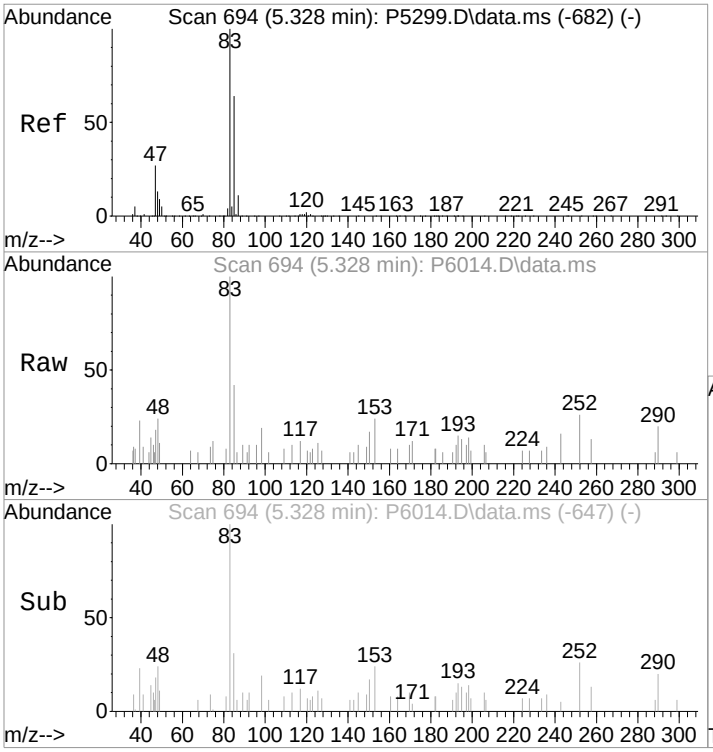


#34
cis-1,2-Dichloroethene
Concen: 128.93 ppb
RT: 4.707 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 96 Resp: 805238

Ion	Ratio	Lower	Upper
96	100		
61	126.2	114.6	154.6

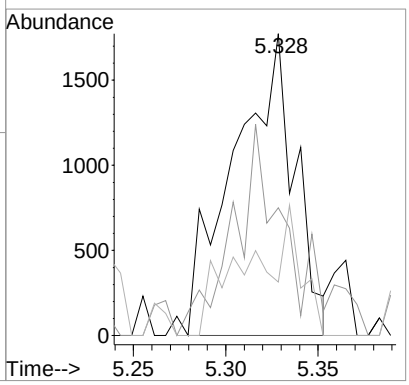


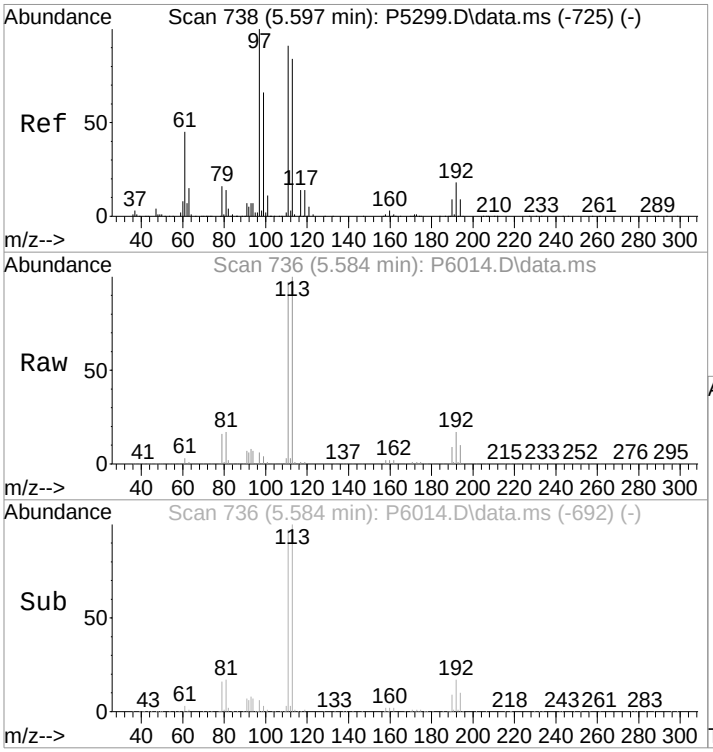


#40
Chloroform
Concen: 0.41 ppb m
RT: 5.328 min Scan# 694
Delta R.T. 0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 83 Resp: 4064

Ion	Ratio	Lower	Upper
83	100		
85	42.3	44.1	84.1#
47	17.7	7.4	47.4

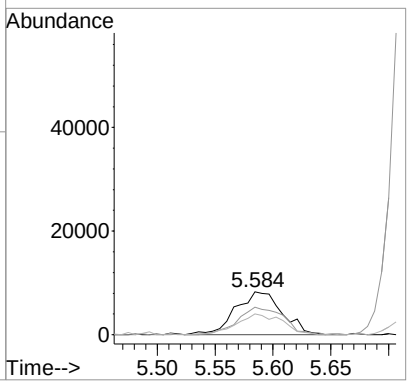


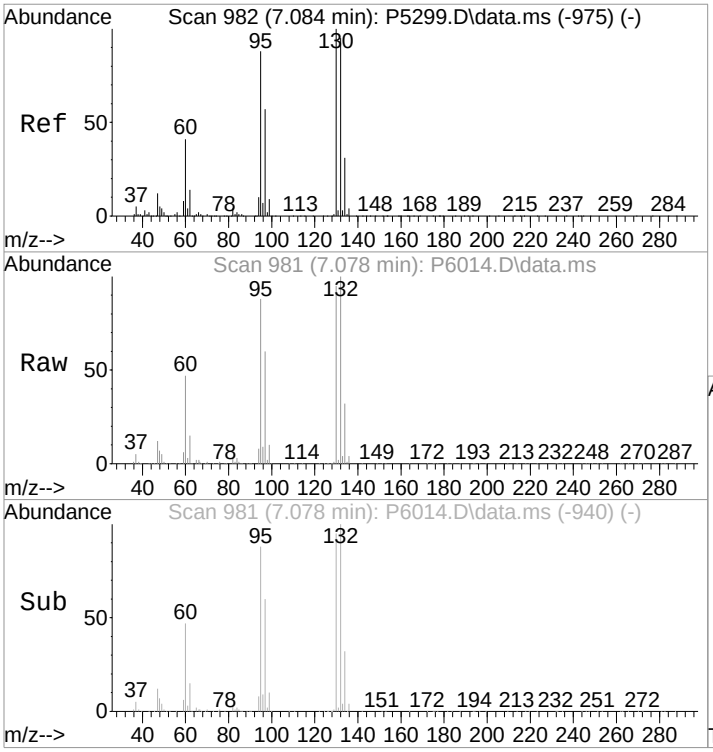


#41
1,1,1-Trichloroethane
Concen: 2.55 ppb
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion: 97 Resp: 23292

Ion	Ratio	Lower	Upper
97	100		
99	64.4	46.2	86.2
61	48.8	25.3	65.3

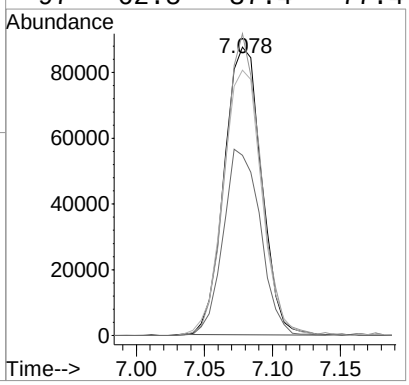




#54
Trichloroethene
Concen: 24.59 ppb
RT: 7.078 min Scan# 981
Delta R.T. 0.000 min
Lab File: P6014.D
Acq: 27 Oct 2016 6:23 pm

Tgt Ion:130 Resp: 166429

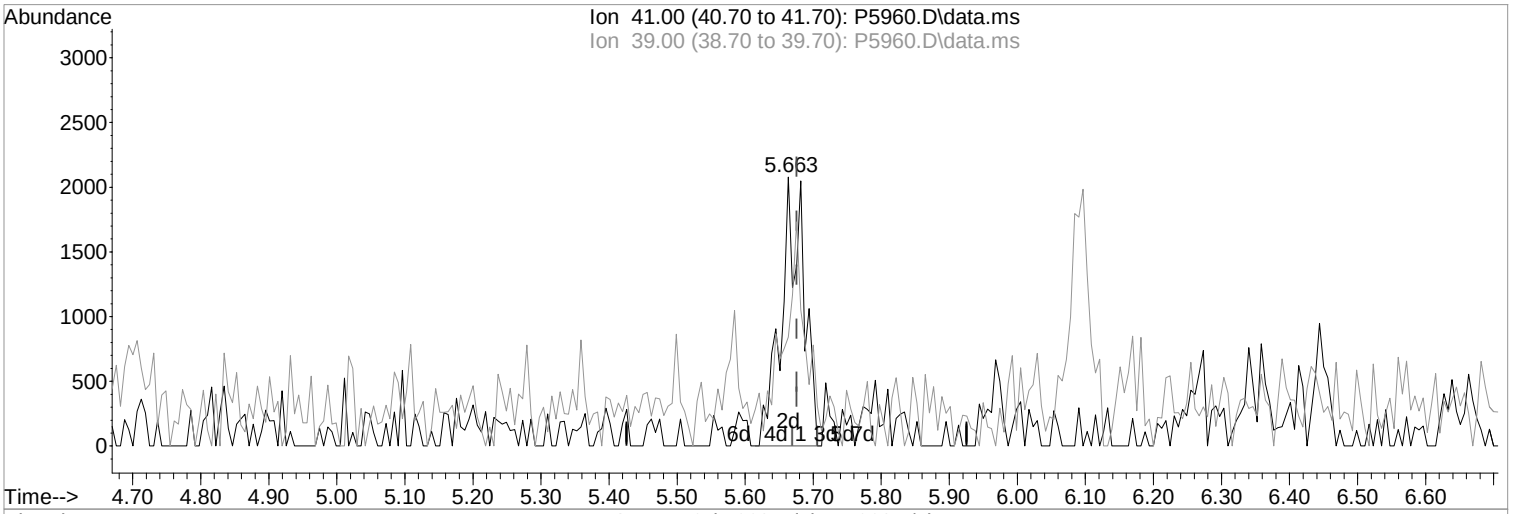
Ion	Ratio	Lower	Upper
130	100		
132	104.7	75.2	115.2
95	92.0	68.1	108.1
97	62.5	37.4	77.4

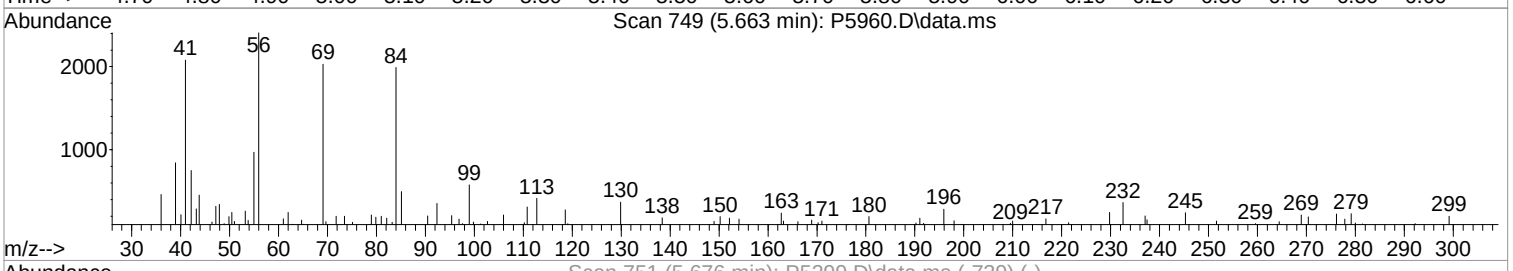


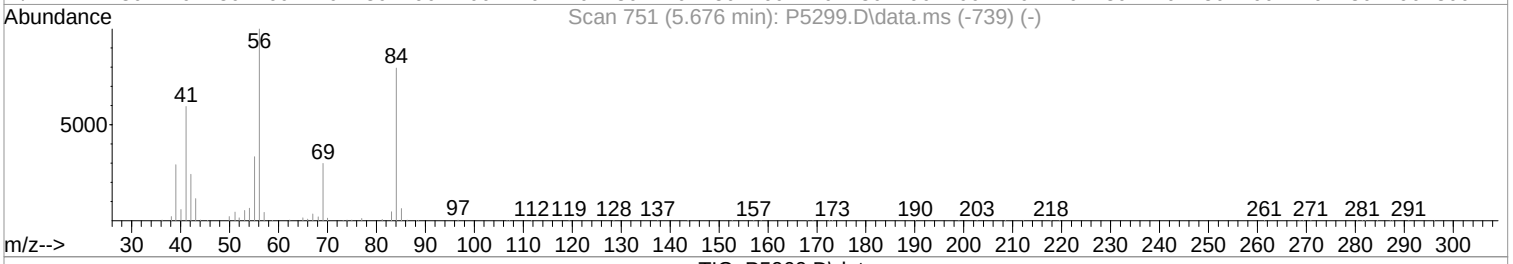
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5960.D
Acq On : 26 Oct 2016 1:53 pm
Operator : K.Ruest
Sample : R1611185-020|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:25:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5960.D\data.ms

(44) Cyclohexane (P)

5.663min (-0.012) 0.68 ppb m

response 4736

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	40.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

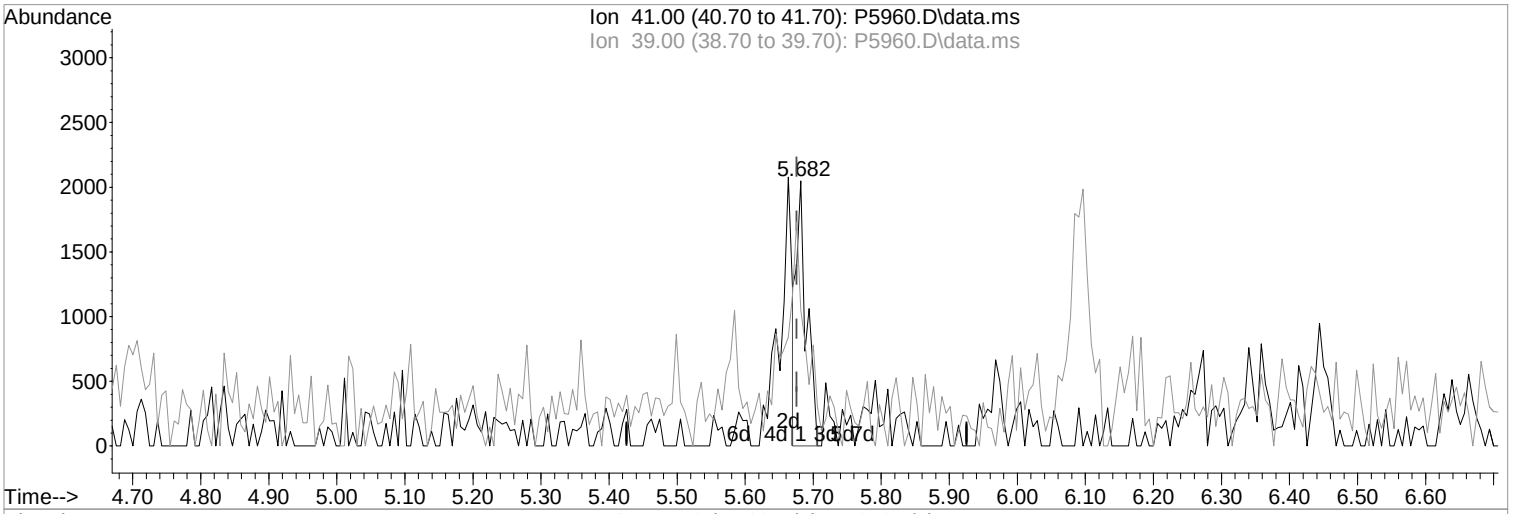
Split Peak

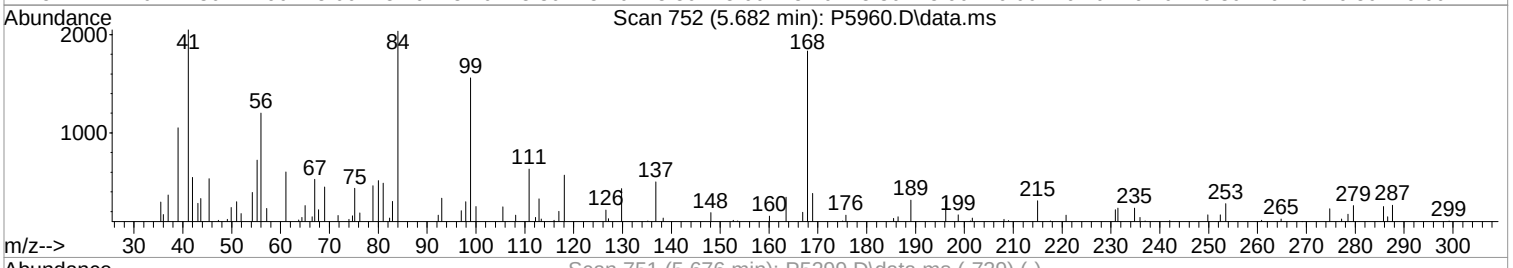
10/26/16

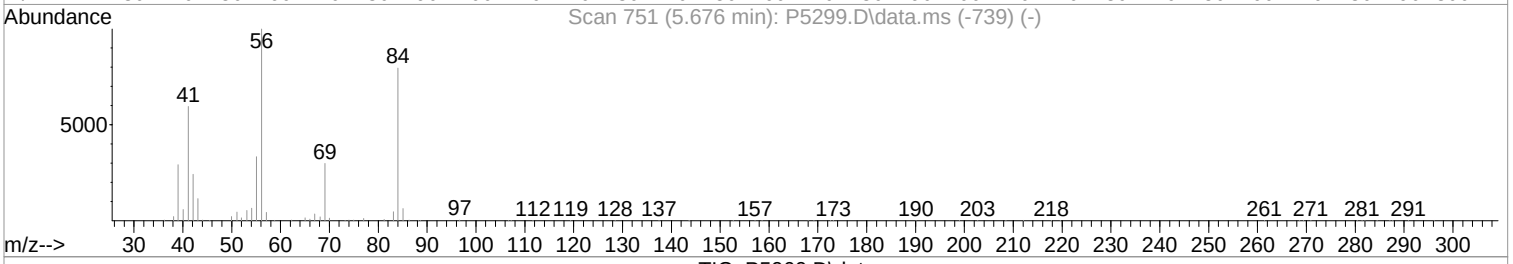
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5960.D
Acq On : 26 Oct 2016 1:53 pm
Operator : K.Ruest
Sample : R1611185-020|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:25:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5960.D\data.ms

(44) Cyclohexane (P)

5.682min (+0.006) 0.30 ppb

response 2120

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	51.34
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5960.D
Acq On : 26 Oct 2016 1:53 pm
Operator : K.Ruest
Sample : R1611185-020|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:38:09 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

repeat 20

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	808176	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1303219	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1195057	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	607462	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	382443	54.99	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.98%				
48) surr1,1,2-dichloroetha...	6.090	65	427589	54.12	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.24%				
65) SURR3,Toluene-d8	8.529	98	1591983	55.86	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.72%				
70) SURR2,BFB	11.047	95	580501	52.21	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.42%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	1132709	177.15	ppb		100
7) Freon 21	1.920	67	234199	27.66	ppb		99
8) Trichlorofluoromethane	1.969	101	123077	16.63	ppb		94
10) Freon 123a	2.231	67	57268	11.12	ppb		83
13) 1,1-Diclethene	2.432	96	29382	5.23	ppb	#	72
14) Freon 113	2.432	101	357243	59.95	ppb		93
18) Carbon Disulfide	2.640	76	15900	0.90	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	93633	14.82	ppb		97
28) 1,1-Diclethane	3.786	63	139808	13.33	ppb		92
34) cis-1,2-Dichloroethene	4.712	96	9215530	1428.96	ppb	#	76
40) Chloroform	5.328	83	11236	1.10	ppb		92
41) 1,1,1-Trichloroethane	5.590	97	322469	34.23	ppb		98
44) Cyclohexane	5.663	41	4736m	0.68	ppb		
52) n-Heptane	6.639	43	1814	0.21	ppb		78
54) Trichloroethene	7.078	130	568632	82.64	ppb		97
55) Methylcyclohexane	7.309	55	6140	0.71	ppb	#	76

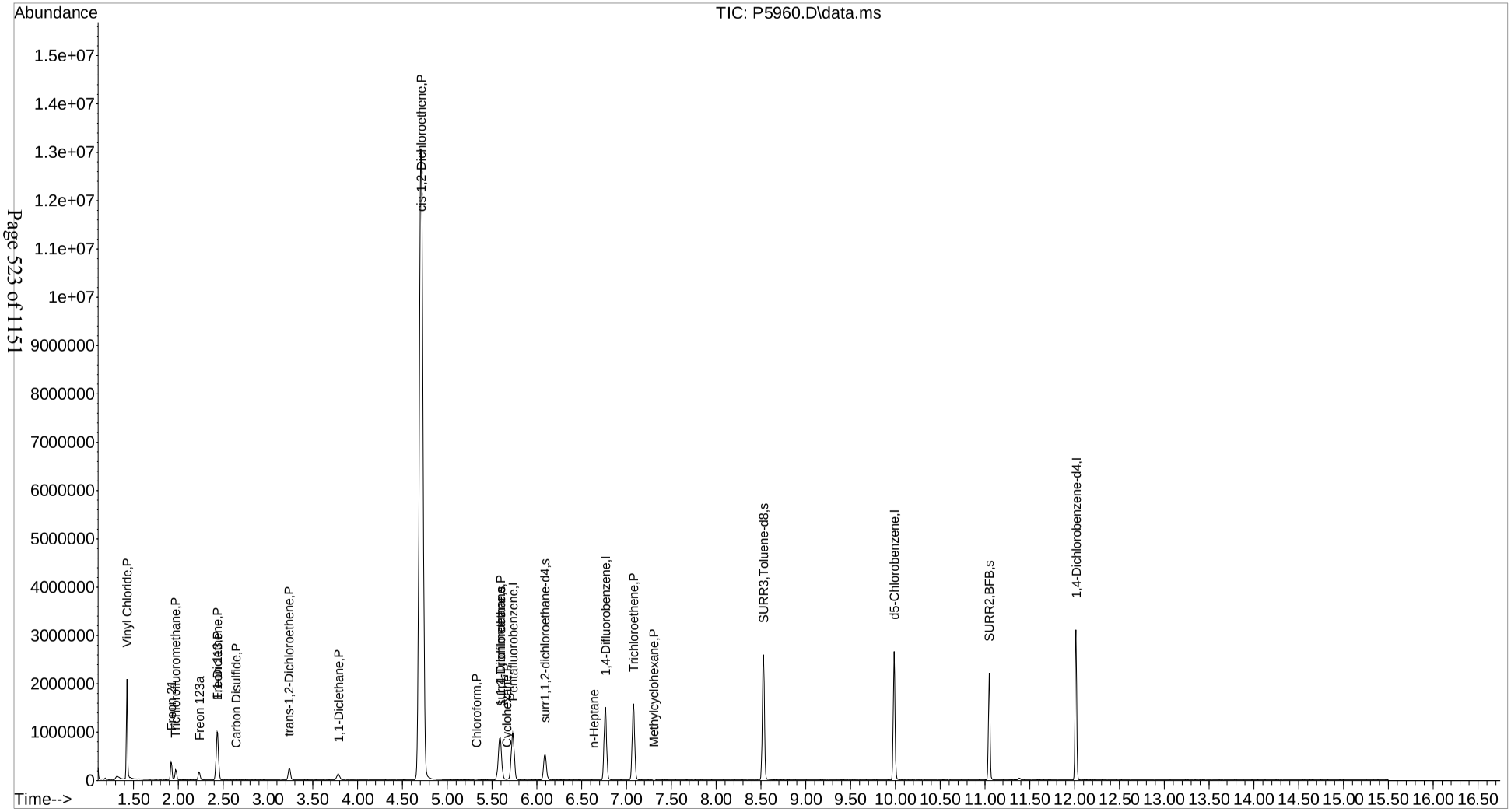
E-Over Calibration

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

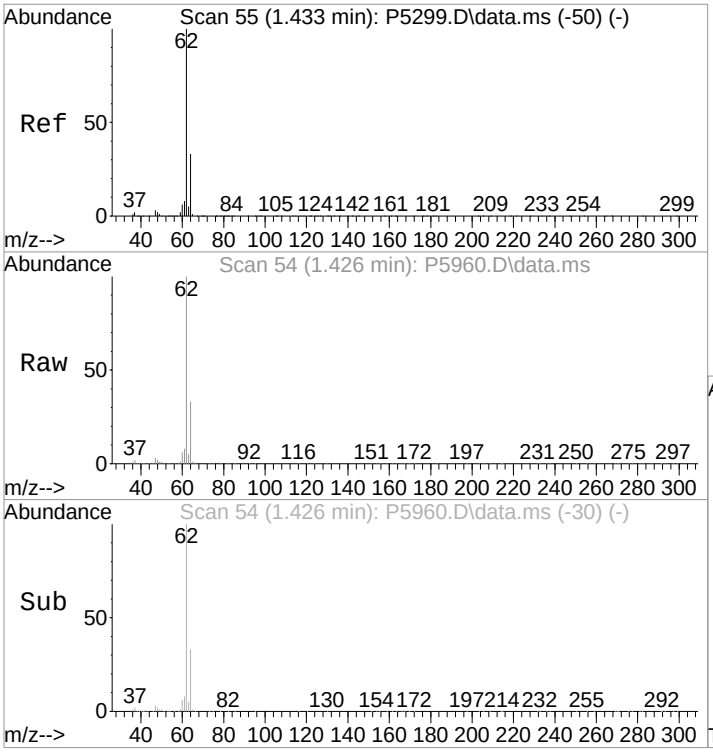
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5960.D
Acq On : 26 Oct 2016 1:53 pm
Operator : K.Ruest
Sample : R1611185-020|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:38:09 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



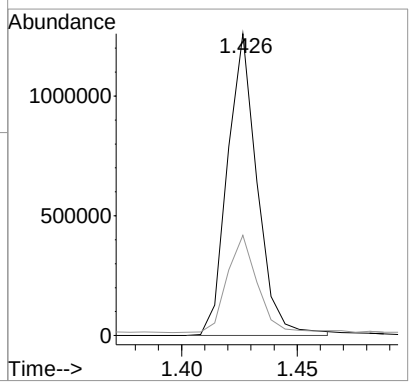
1st 10/26/16
2nd 10/27/16

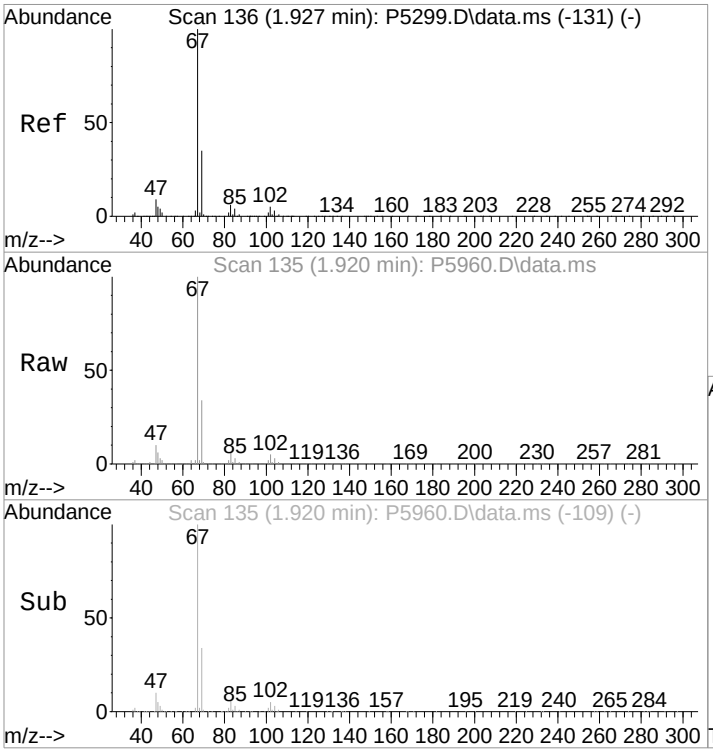


#4
Vinyl Chloride
Concen: 177.15 ppb
RT: 1.426 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 62 Resp: 1132709

Ion	Ratio	Lower	Upper
62	100		
64	33.2	13.1	53.1

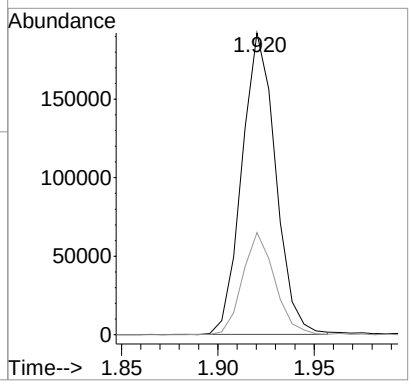


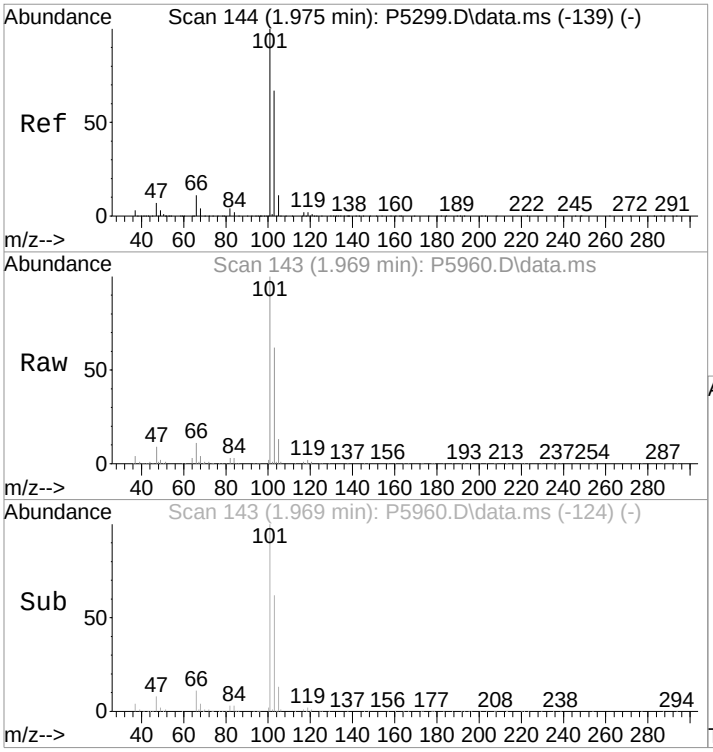


#7
Freon 21
Concen: 27.66 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 67 Resp: 234199

Ion	Ratio	Lower	Upper
67	100		
69	33.8	14.4	54.4

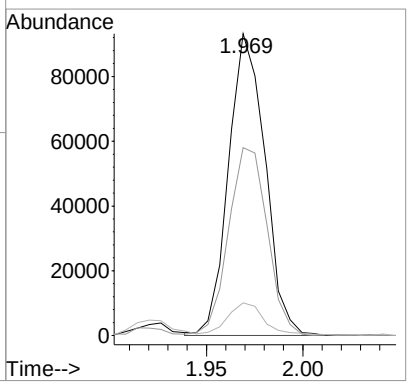


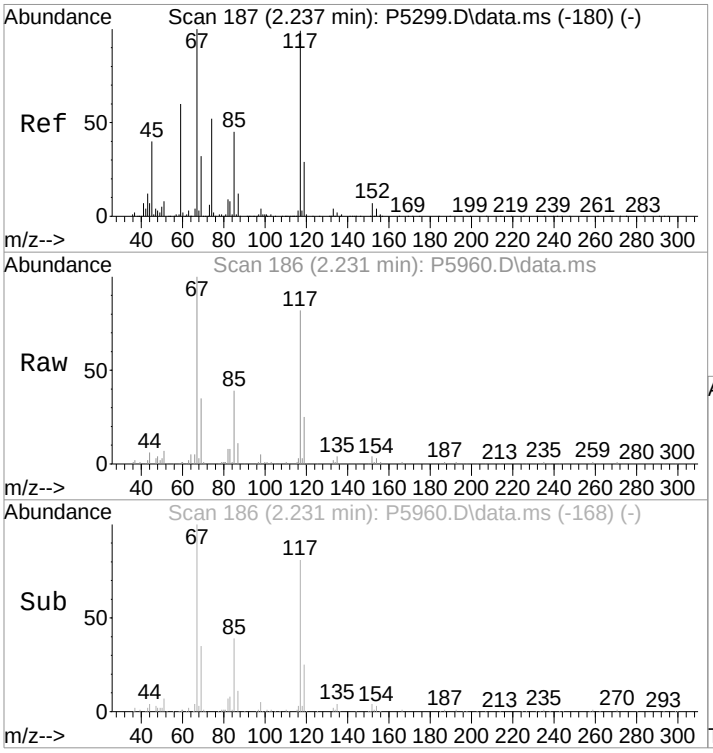


#8
Trichlorofluoromethane
Concen: 16.63 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion:101 Resp: 123077

Ion	Ratio	Lower	Upper
101	100		
103	62.3	47.3	87.3
66	10.8	0.0	31.5

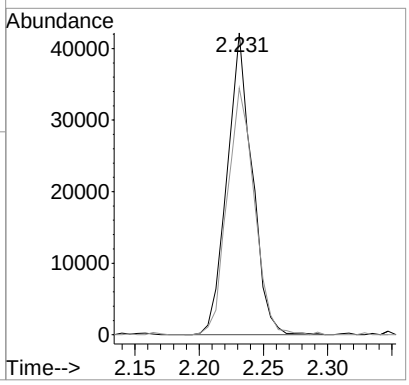


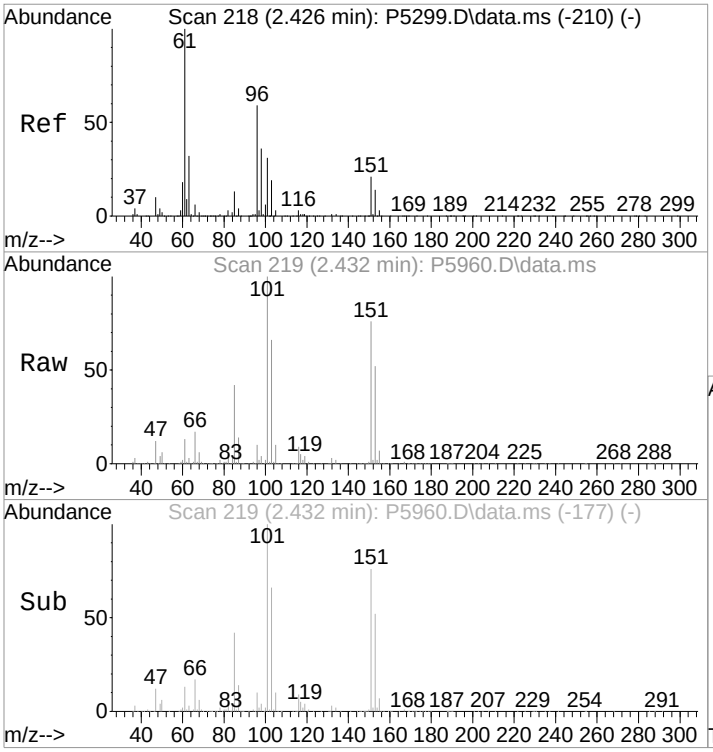


#10
Freon 123a
Concen: 11.12 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 67 Resp: 57268

Ion	Ratio	Lower	Upper
67	100		
117	81.7	78.8	118.8

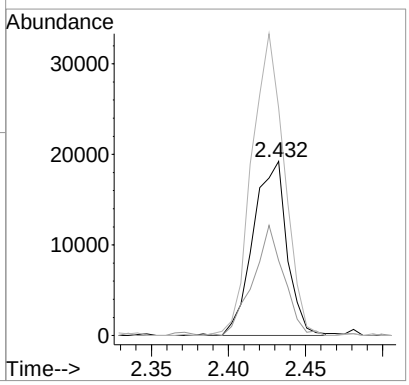


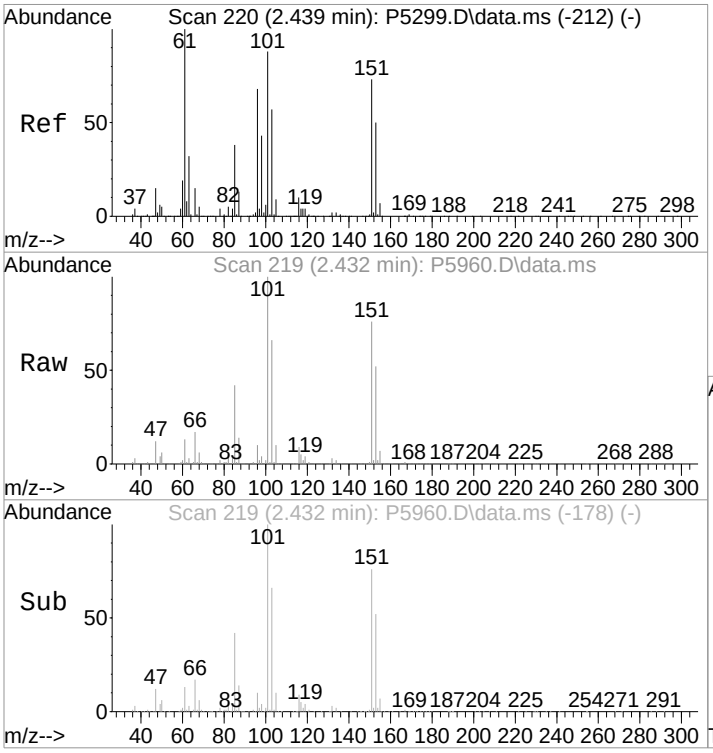


#13
1,1-Diclethene
Concen: 5.23 ppb
RT: 2.432 min Scan# 219
Delta R.T. 0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 96 Resp: 29382

Ion	Ratio	Lower	Upper
96	100		
98	43.1	41.8	81.8
61	130.8	150.1	190.1#

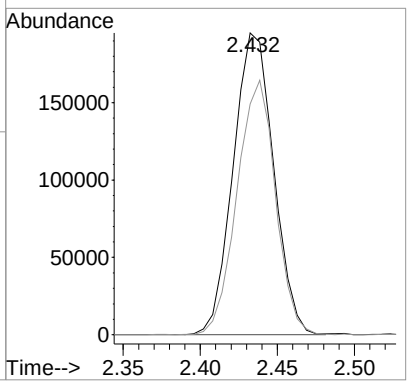


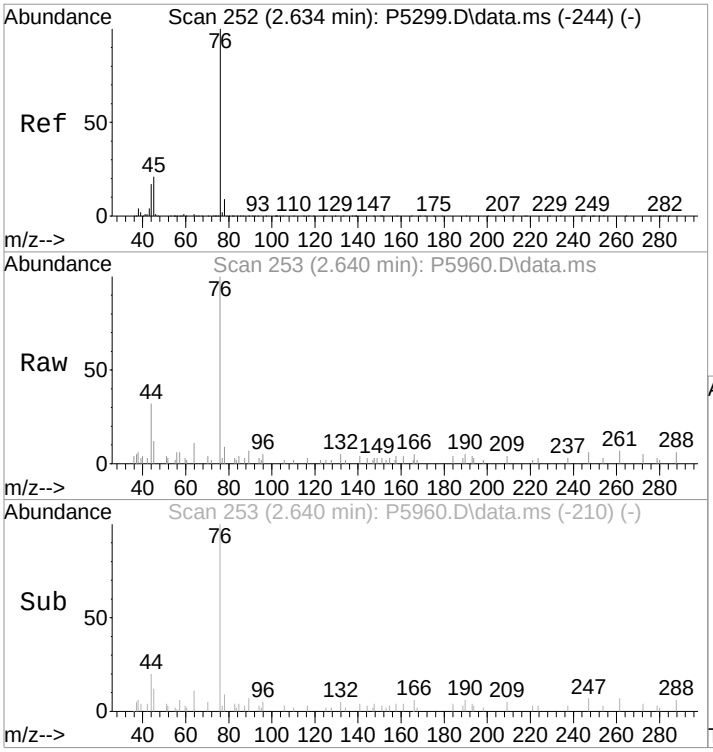


#14
Freon 113
Concen: 59.95 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion:101 Resp: 357243

Ion	Ratio	Lower	Upper
101	100		
151	76.5	62.6	102.6

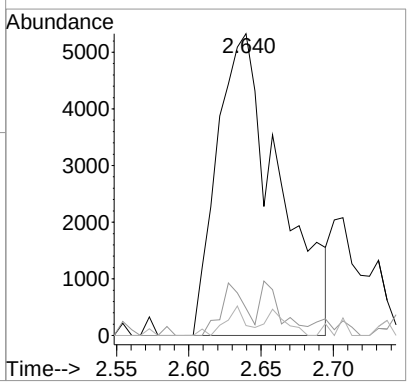


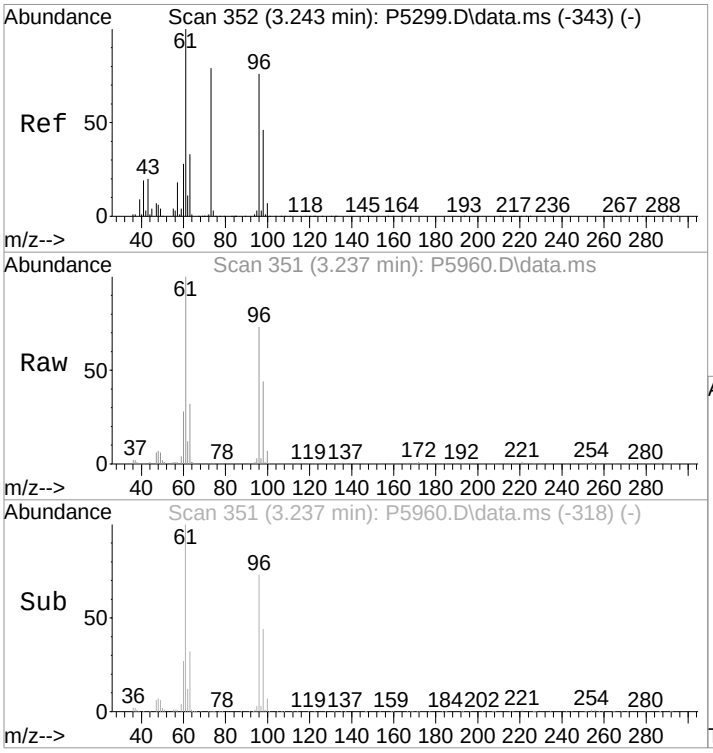


#18
Carbon Disulfide
Concen: 0.90 ppb
RT: 2.640 min Scan# 253
Delta R.T. 0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 76 Resp: 15900

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.3
77	3.3	0.0	22.5

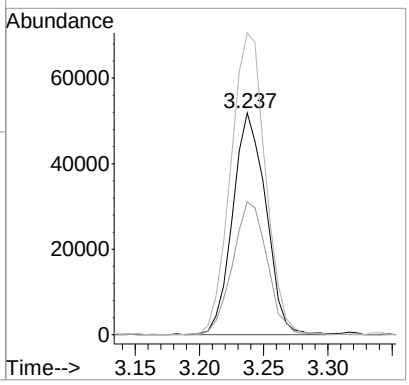


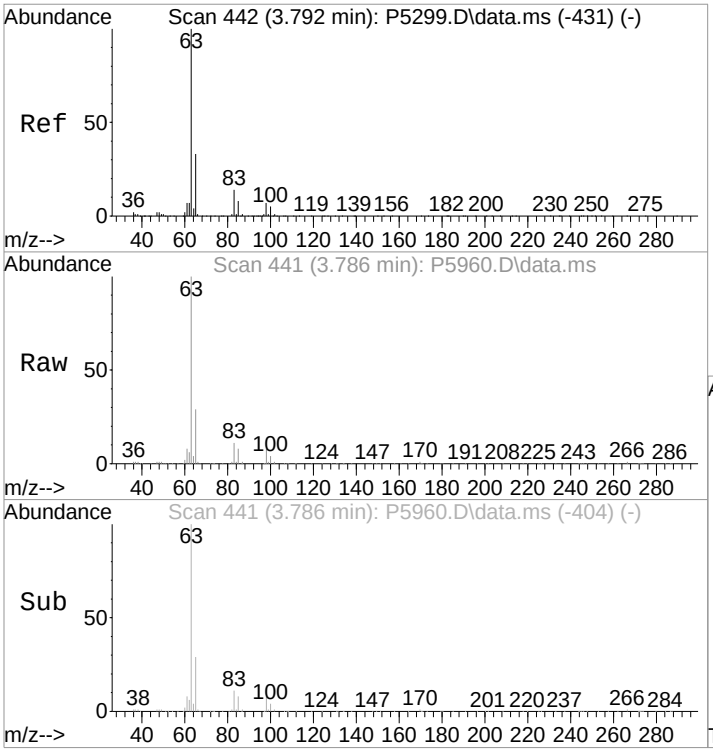


#26
trans-1,2-Dichloroethene
Concen: 14.82 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 96 Resp: 93633

Ion	Ratio	Lower	Upper
96	100		
98	59.8	41.0	81.0
61	136.1	112.4	152.4

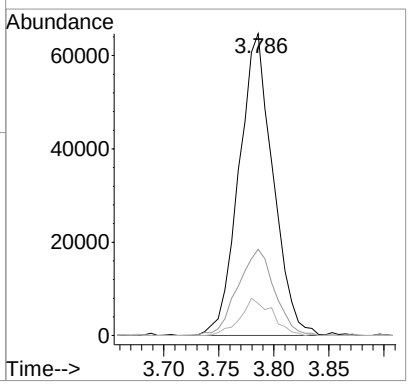


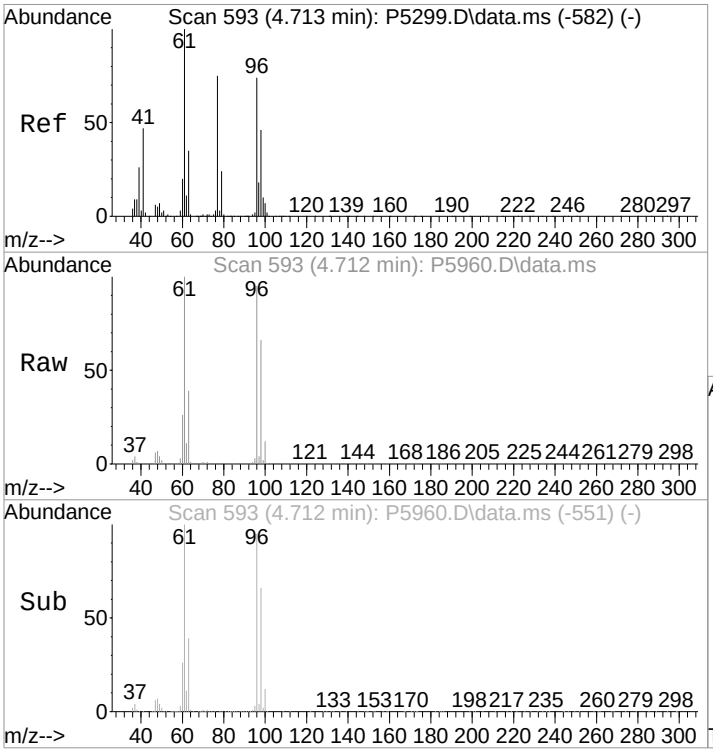


#28
1,1-Diclethane
Concen: 13.33 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 63 Resp: 139808

Ion	Ratio	Lower	Upper
63	100		
65	28.5	12.9	52.9
83	10.6	0.0	33.5

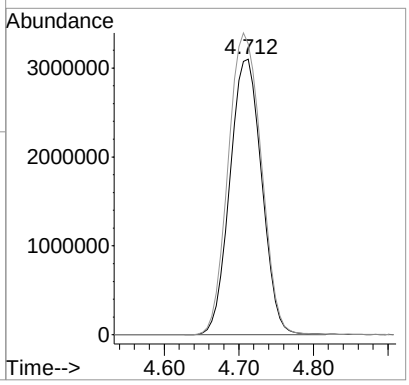


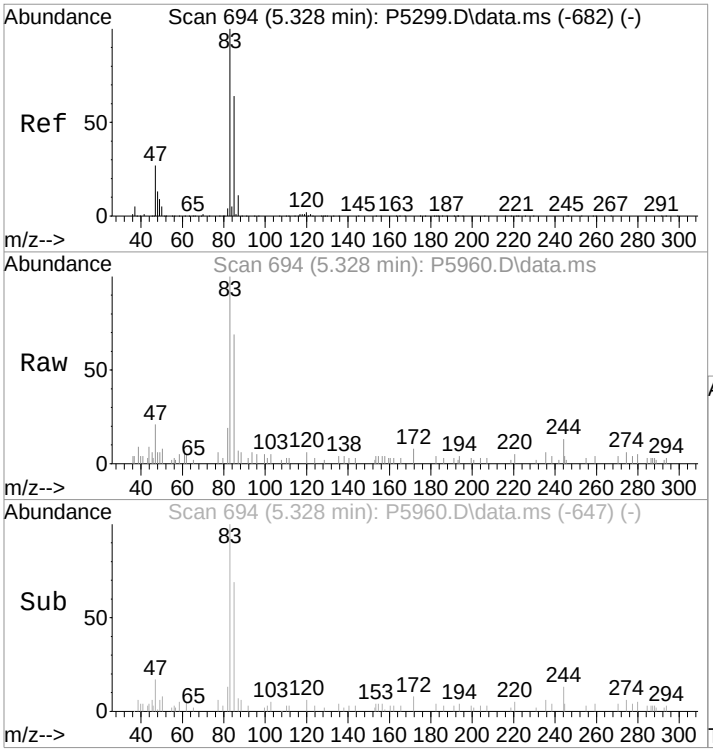


#34
cis-1,2-Dichloroethene
Concen: 1428.96 ppb
RT: 4.712 min Scan# 593
Delta R.T. -0.000 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 96 Resp: 9215530

Ion	Ratio	Lower	Upper
96	100		
61	105.7	114.6	154.6#

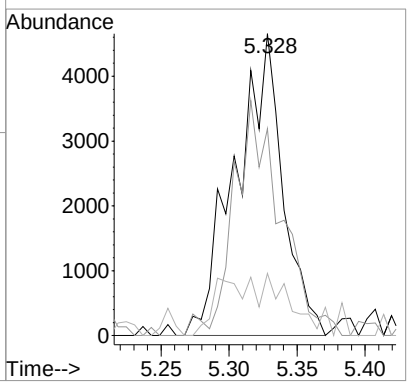


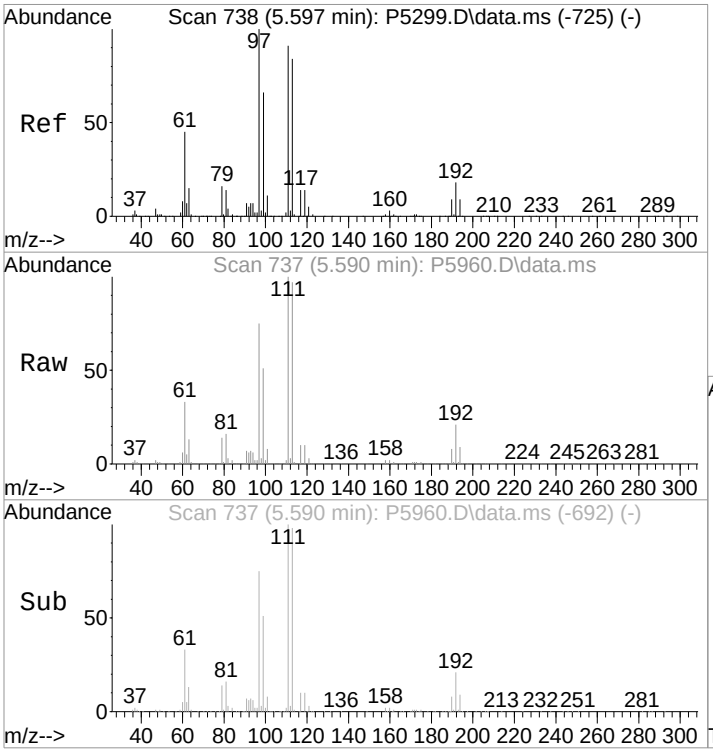


#40
Chloroform
Concen: 1.10 ppb
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 83 Resp: 11236

Ion	Ratio	Lower	Upper
83	100		
85	68.5	44.1	84.1
47	20.6	7.4	47.4

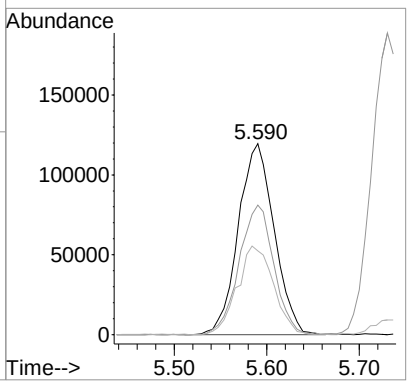


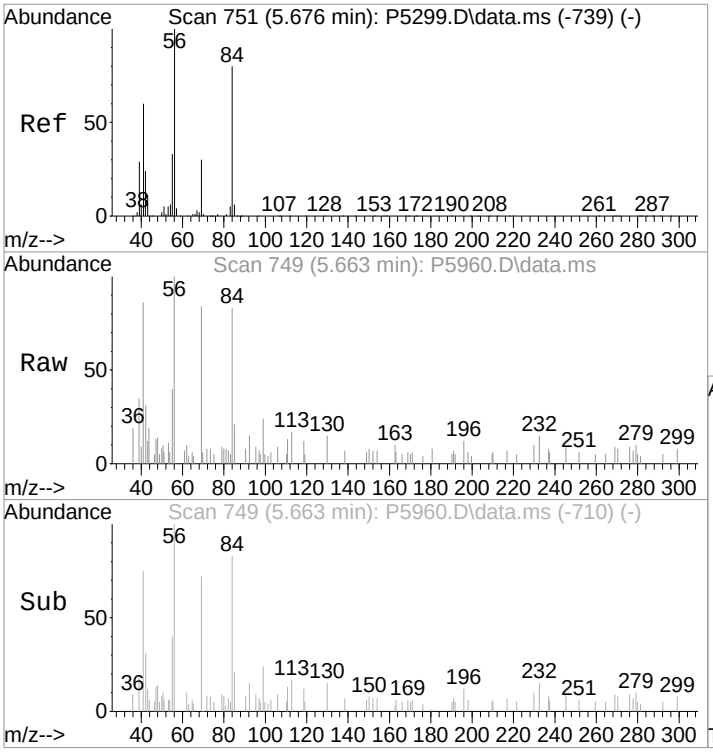


#41
1,1,1-Trichloroethane
Concen: 34.23 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 97 Resp: 322469

Ion	Ratio	Lower	Upper
97	100		
99	67.9	46.2	86.2
61	43.9	25.3	65.3

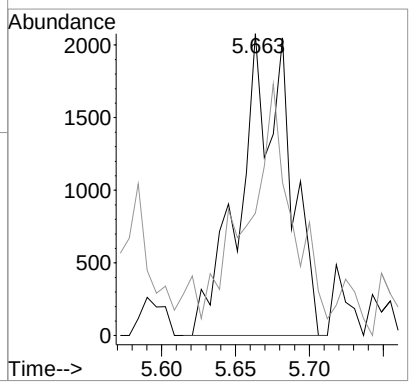


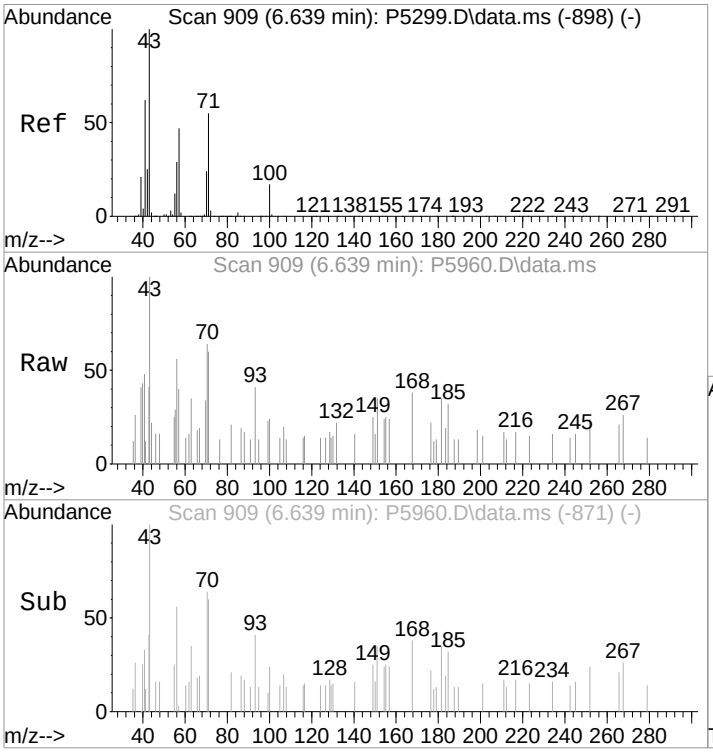


#44
Cyclohexane
Concen: 0.68 ppb m
RT: 5.663 min Scan# 749
Delta R.T. -0.012 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 41 Resp: 4736

Ion	Ratio	Lower	Upper
41	100		
39	40.5	29.0	69.0

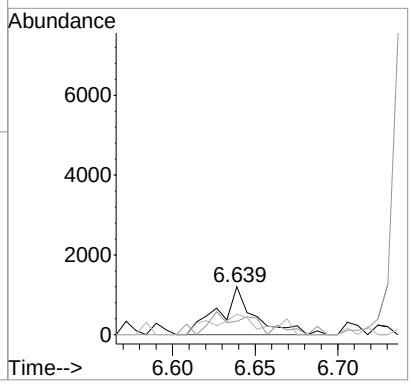


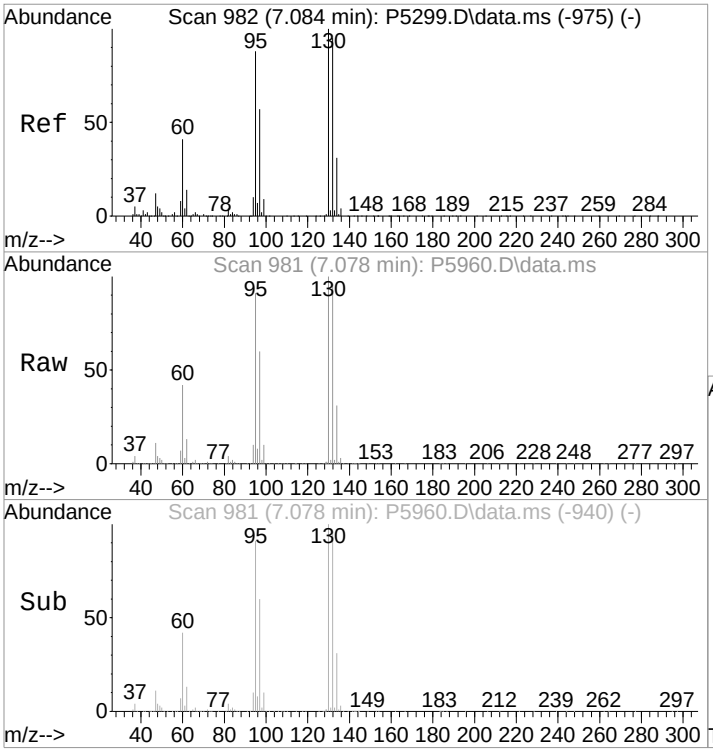


#52
n-Heptane
Concen: 0.21 ppb
RT: 6.639 min Scan# 909
Delta R.T. -0.006 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 43 Resp: 1814

Ion	Ratio	Lower	Upper
43	100		
57	28.2	26.8	66.8
71	42.9	34.8	74.8

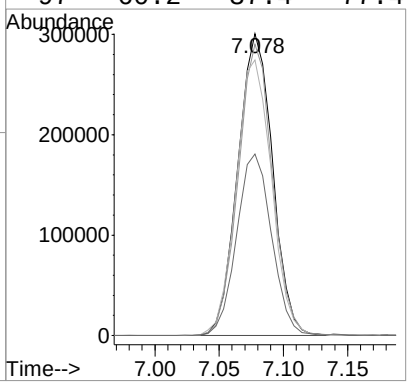


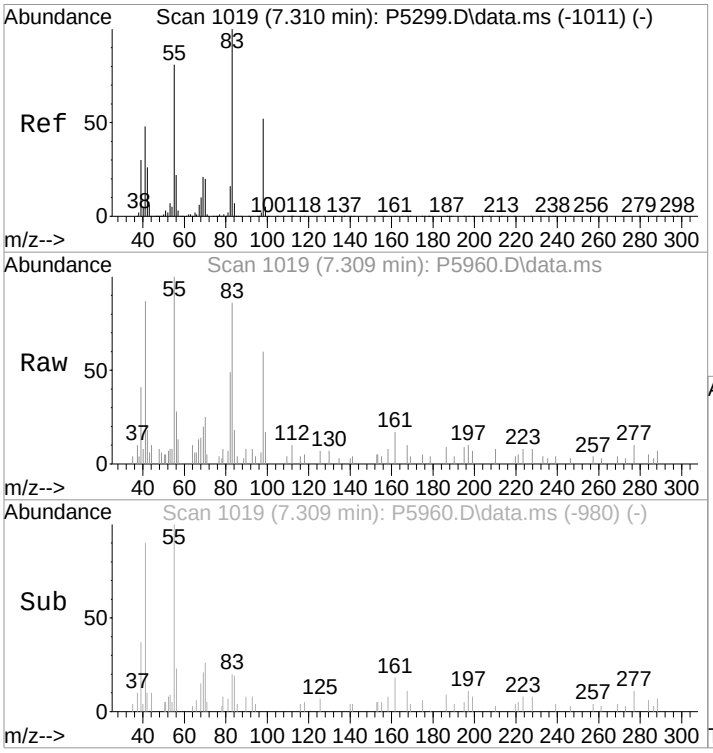


#54
Trichloroethene
Concen: 82.64 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion:130 Resp: 568632

Ion	Ratio	Lower	Upper
130	100		
132	96.4	75.2	115.2
95	91.2	68.1	108.1
97	60.2	37.4	77.4

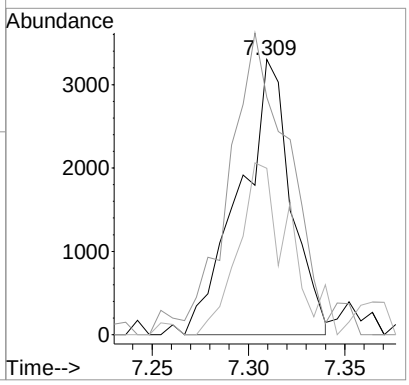




#55
Methylcyclohexane
Concen: 0.71 ppb
RT: 7.309 min Scan# 1019
Delta R.T. -0.000 min
Lab File: P5960.D
Acq: 26 Oct 2016 1:53 pm

Tgt Ion: 55 Resp: 6140

Ion	Ratio	Lower	Upper
55	100		
83	86.3	104.1	144.1#
98	60.5	43.9	83.9

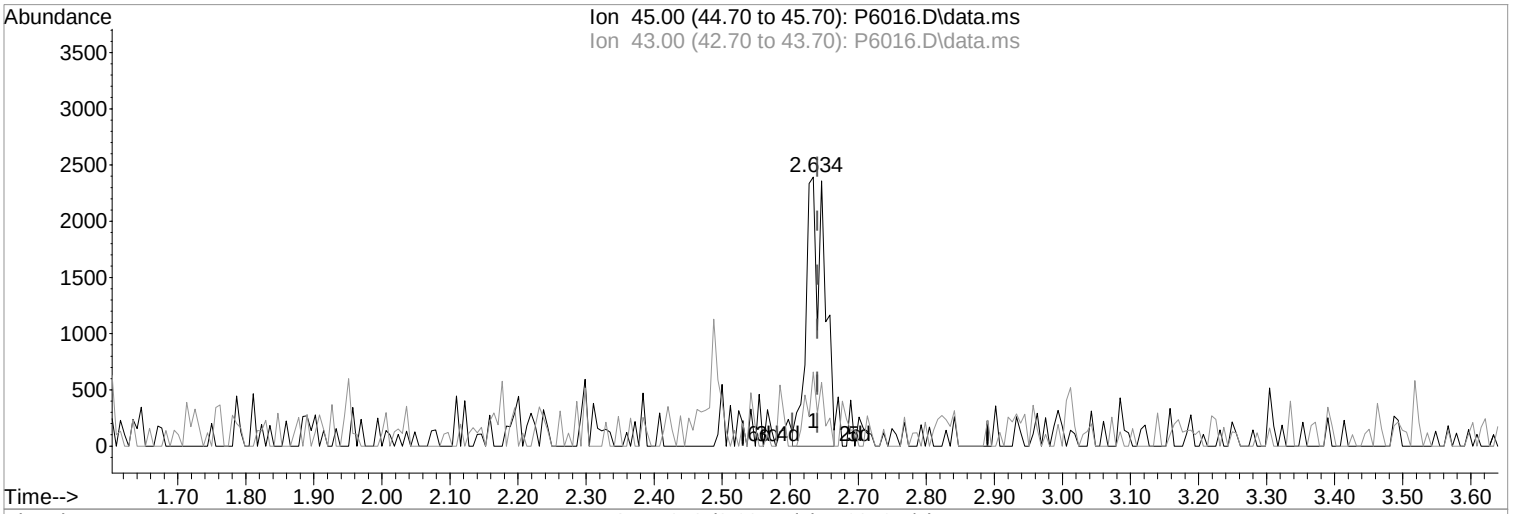


1st 10/28/16
2nd 10/31/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 08:41:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6016.D\data.ms

(16) 2-Propanol

2.634min (-0.006) 15.82 ppb m

response 4364

Ion	Exp%	Act%
45.00	100	100
43.00	21.60	27.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

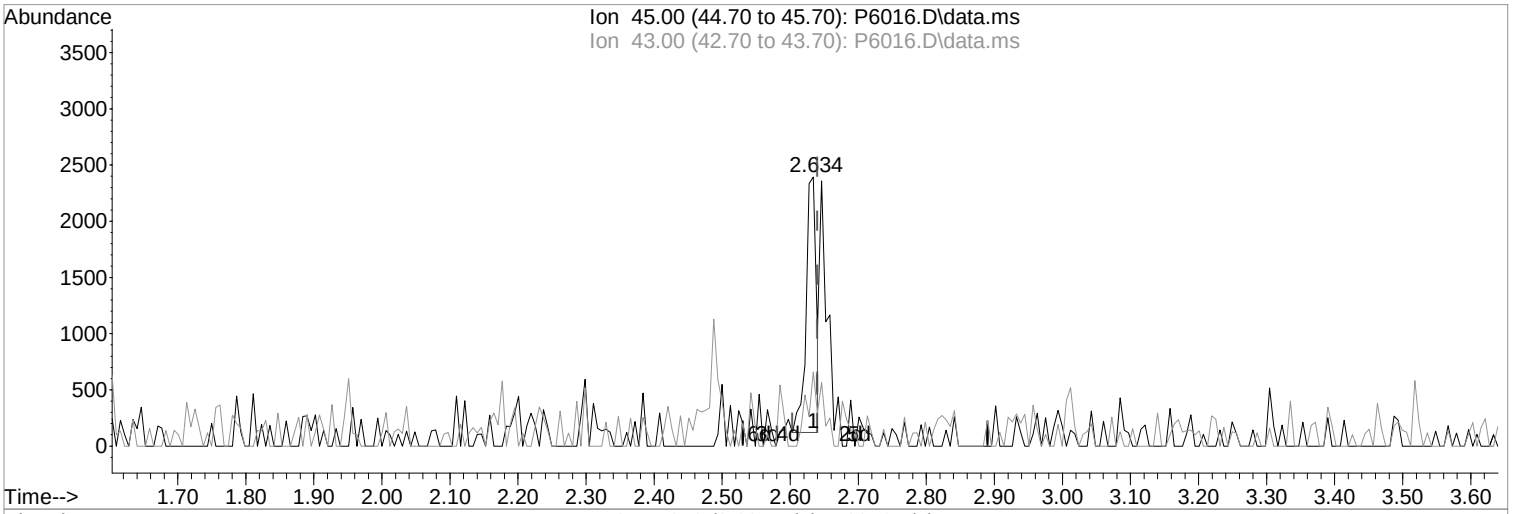
10/28/16

1st 10/28/16
2nd 10/31/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 08:41:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6016.D\data.ms

(16) 2-Propanol

2.634min (-0.006) 8.52 ppb

response 2350

Ion	Exp%	Act%
45.00	100	100
43.00	21.60	27.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

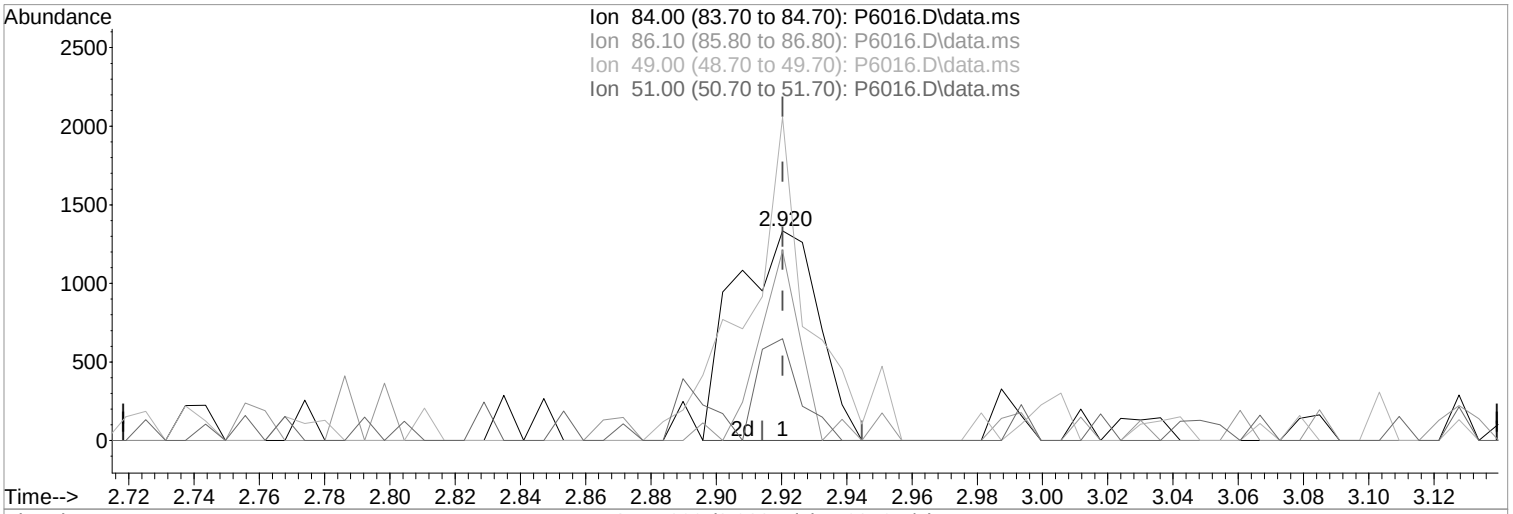
Before

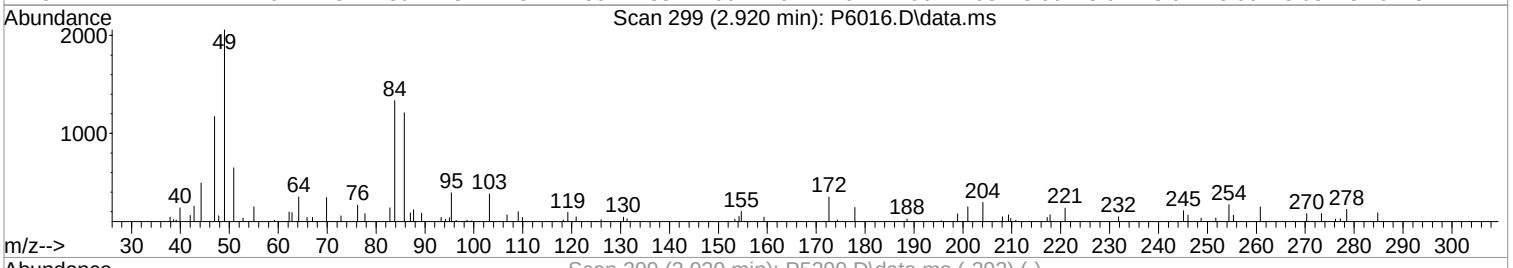
10/28/16

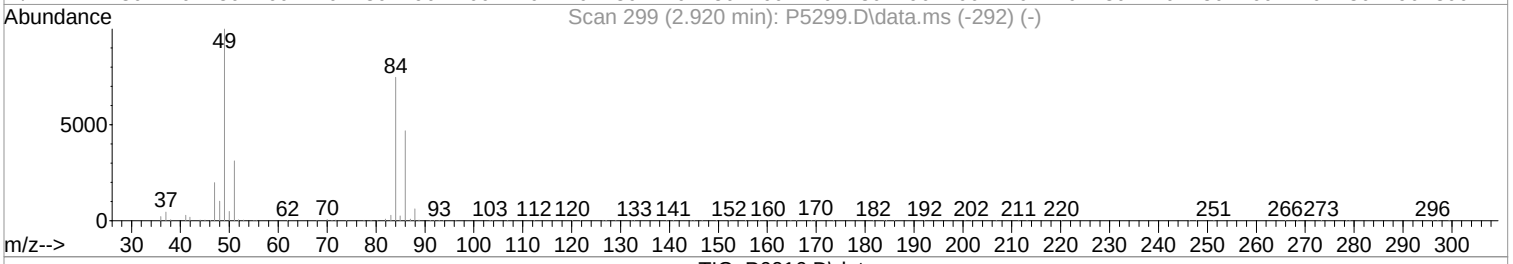
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 08:41:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6016.D\data.ms

(22) Methylene Chloride (P)

2.920min (0.000) 0.41 ppb m

response 2380

Ion	Exp%	Act%
84.00	100	100
86.10	62.80	90.56#
49.00	133.90	154.16#
51.00	41.80	48.61

Manual Integration:

After

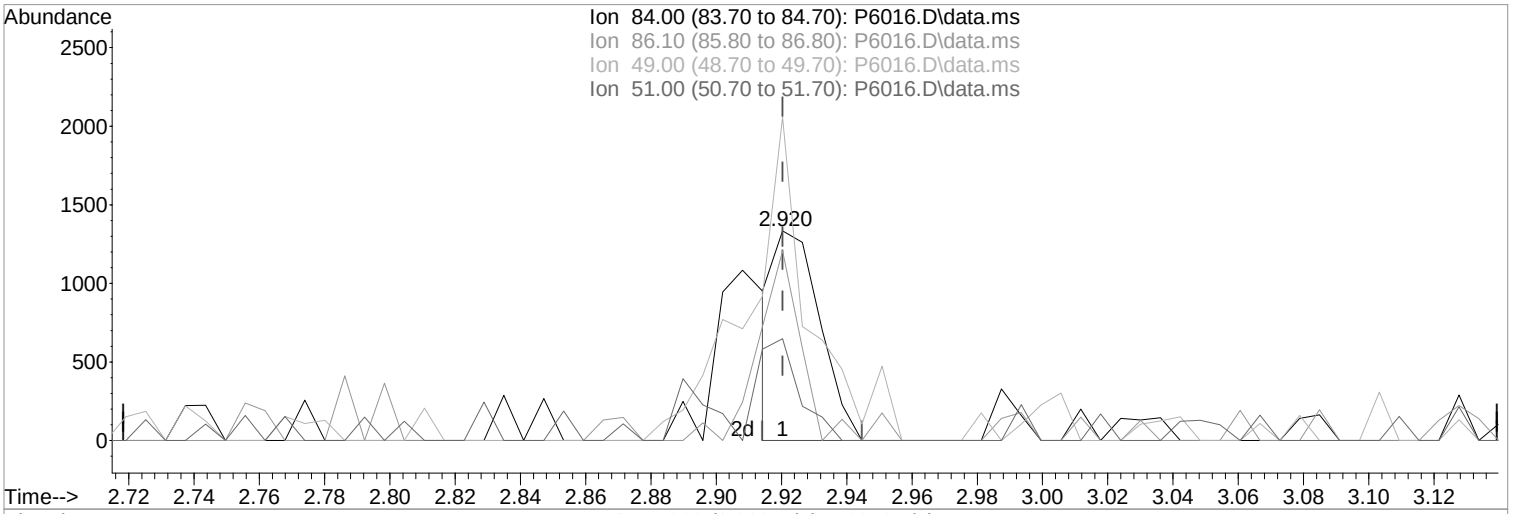
Split Peak

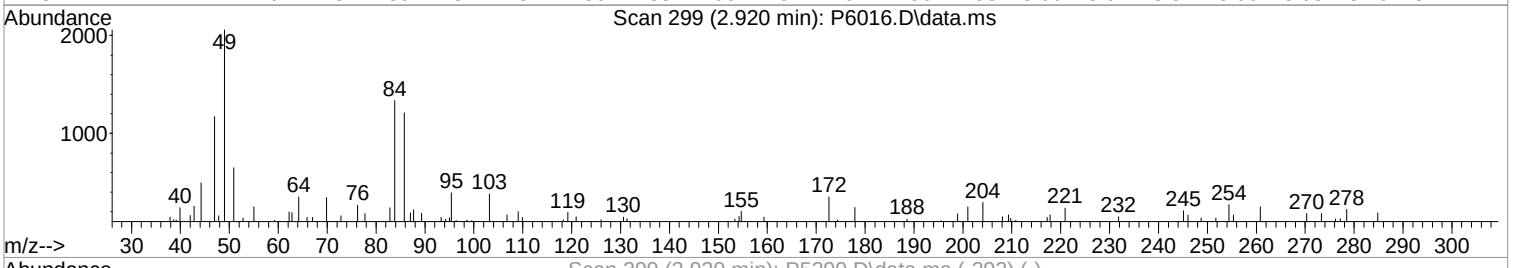
10/28/16

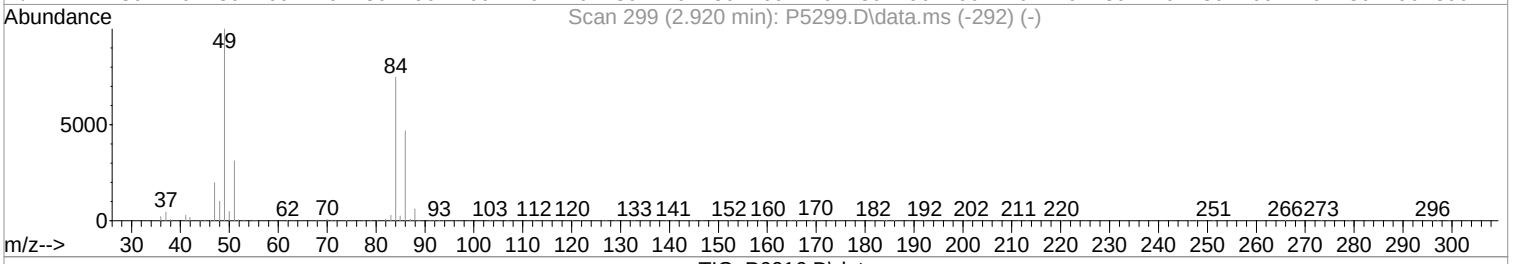
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 08:41:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6016.D\data.ms

(22) Methylene Chloride (P)

2.920min (0.000) 0.22 ppb

response 1291

Ion	Exp%	Act%
84.00	100	100
86.10	62.80	90.56#
49.00	133.90	154.16#
51.00	41.80	48.61

Manual Integration:

Before

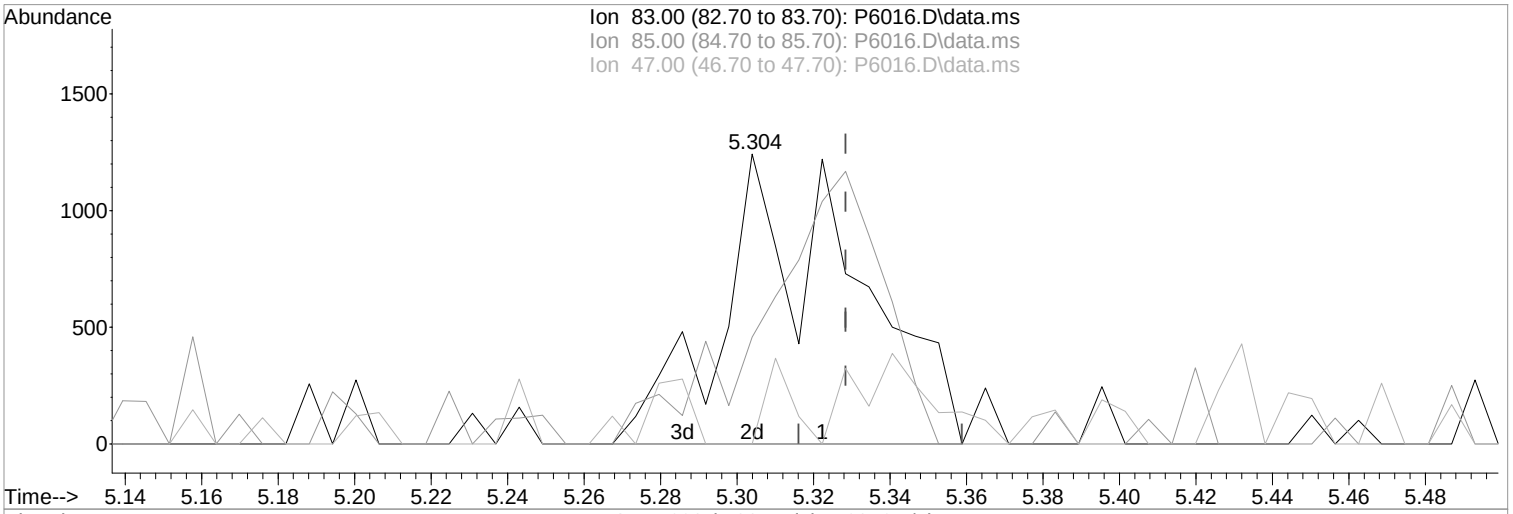
10/28/16

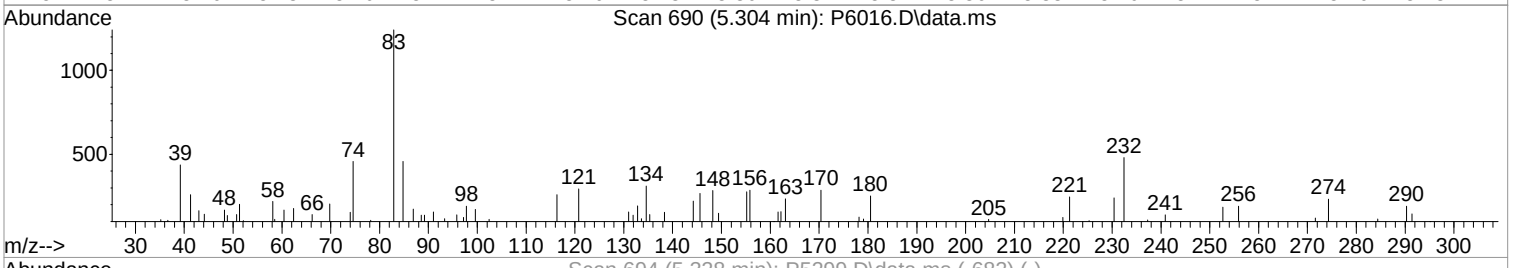
1st 10/28/16
2nd 10/31/16

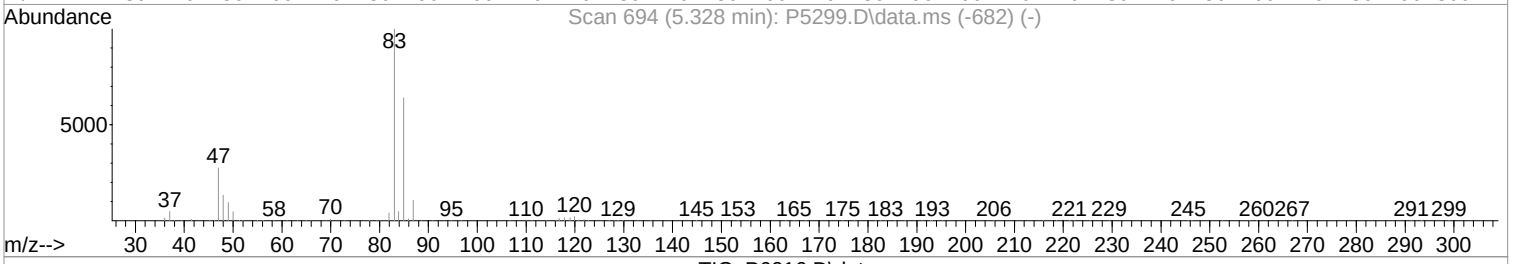
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 08:41:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6016.D\data.ms

(40) Chloroform (P)

5.304min (-0.024) 0.30 ppb m

response 2964

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	36.88#
47.00	27.40	0.00#
0.00	0.00	0.00

Manual Integration:

After

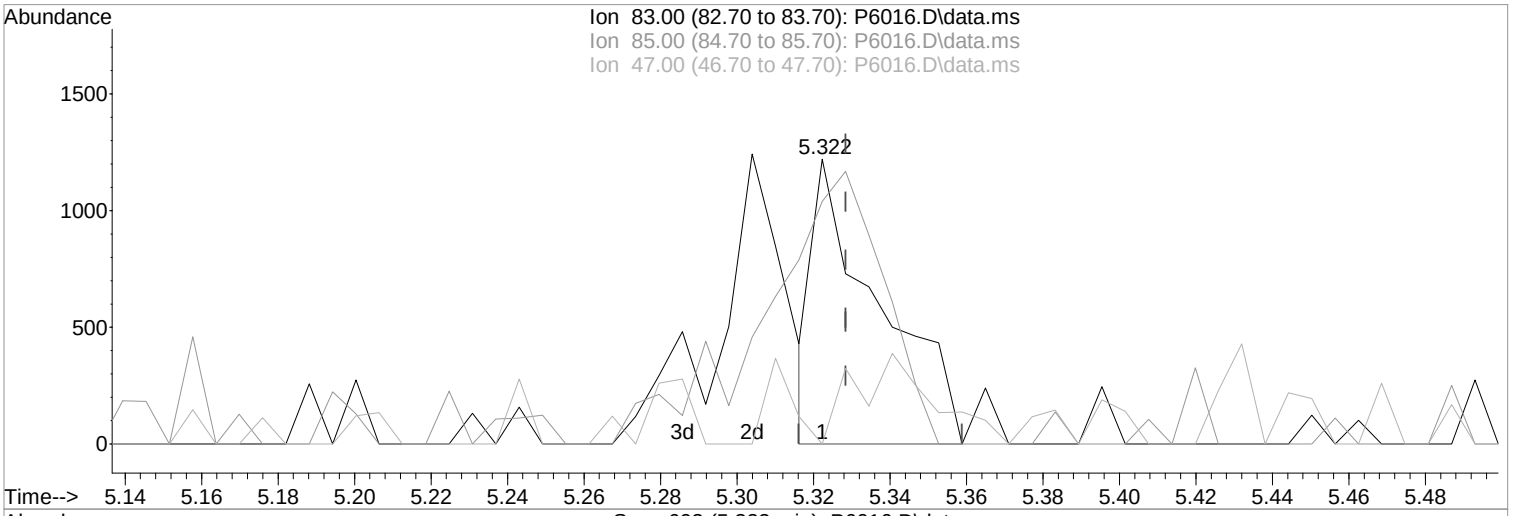
Split Peak

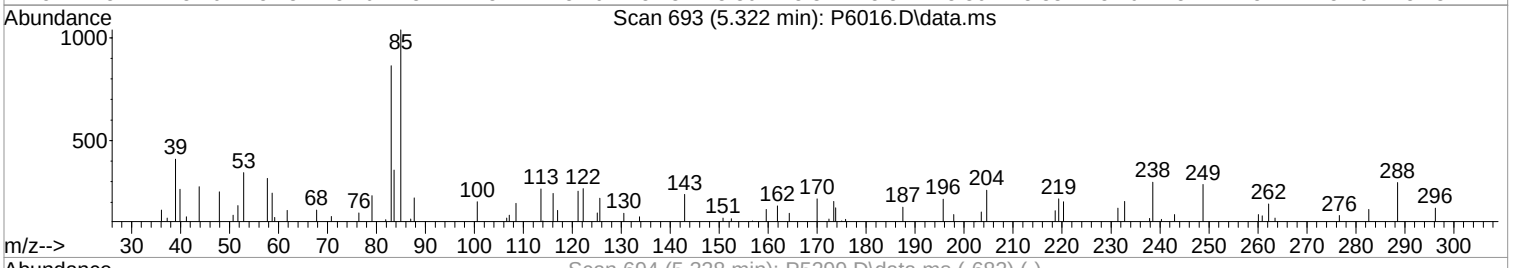
10/28/16

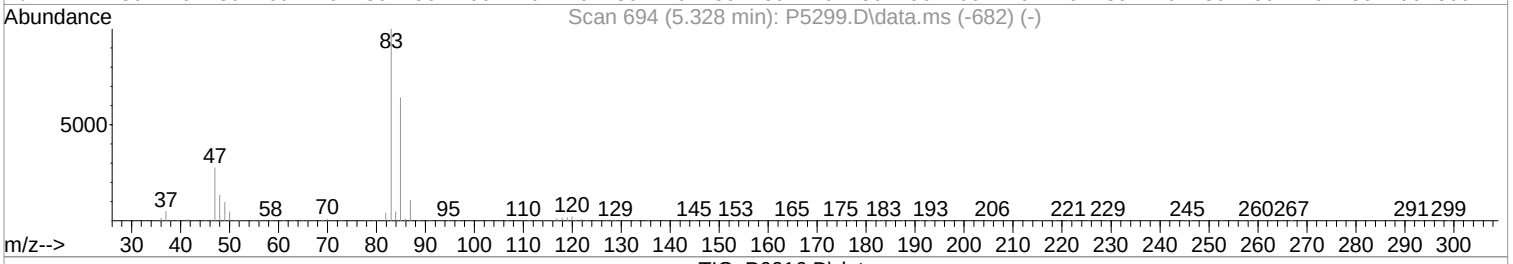
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 08:41:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6016.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 0.15 ppb

response 1470

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	85.16#
47.00	27.40	0.00#
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 13:55:53 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M dil
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

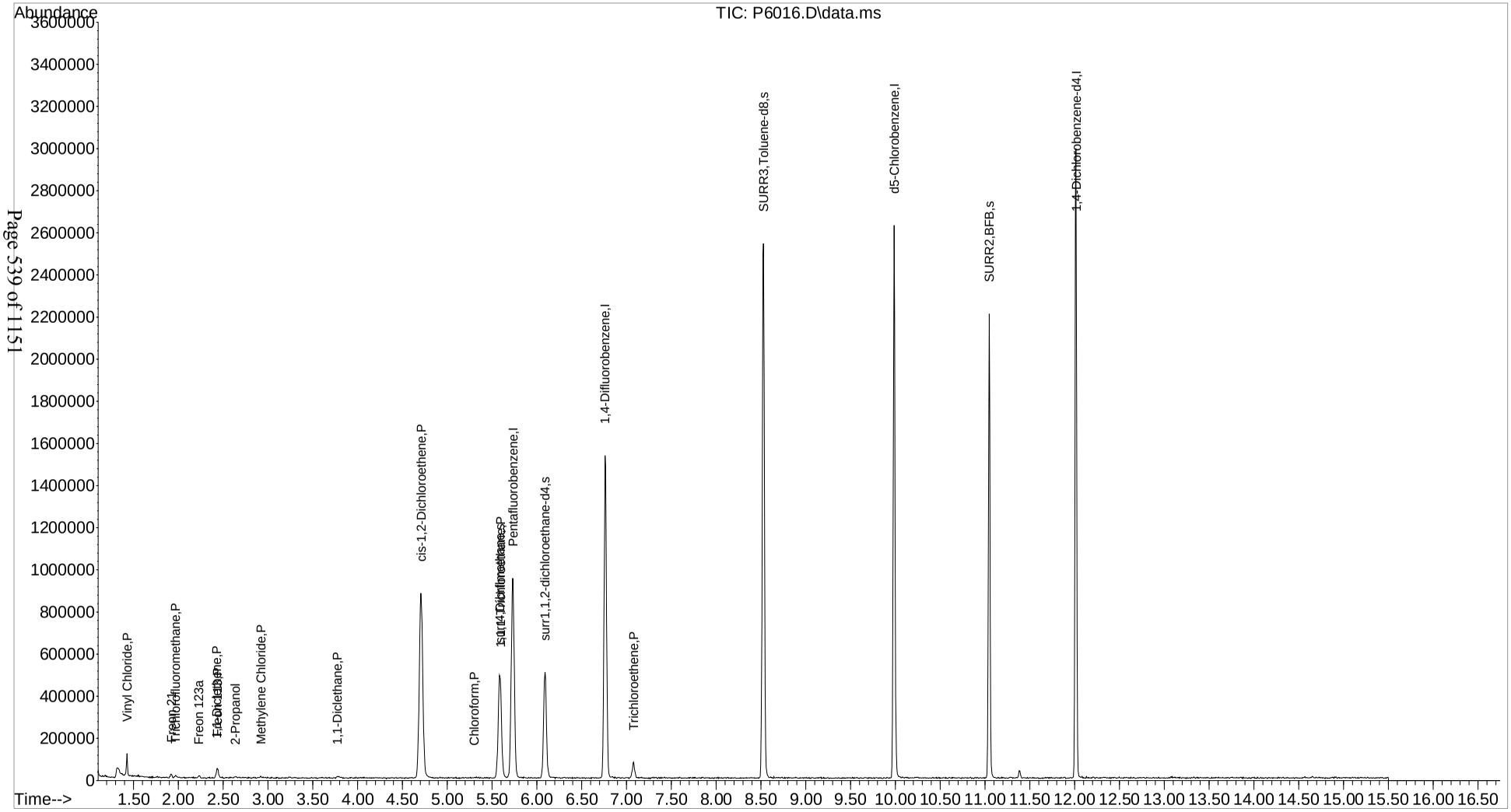
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	793289	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1278016	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1184377	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	599629	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	365934	53.65	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.30%				
48) surr1,1,2-dichloroetha...	6.090	65	396464	51.17	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.34%				
65) SURR3,Toluene-d8	8.529	98	1591223	56.93	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.86%				
70) SURR2,BFB	11.047	95	562214	51.56	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.12%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	53594	8.54	ppb		87
7) Freon 21	1.921	67	10908	1.31	ppb		86
8) Trichlorofluoromethane	1.969	101	6248	0.86	ppb	#	74
10) Freon 123a	2.225	67	2150	0.43	ppb	#	74
13) 1,1-Diclethene	2.426	96	1365	0.25	ppb	#	84
14) Freon 113	2.433	101	16840	2.88	ppb		89
16) 2-Propanol	2.634	45	4364m	15.82	ppb		
22) Methylene Chloride	2.920	84	2380m	0.41	ppb		
28) 1,1-Diclethane	3.774	63	6295	0.61	ppb		87
34) cis-1,2-Dichloroethene	4.707	96	552104	87.22	ppb		94
40) Chloroform	5.304	83	2964m	0.30	ppb		
41) 1,1,1-Trichloroethane	5.591	97	14725	1.59	ppb		82
54) Trichloroethene	7.078	130	25137	3.73	ppb		93

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

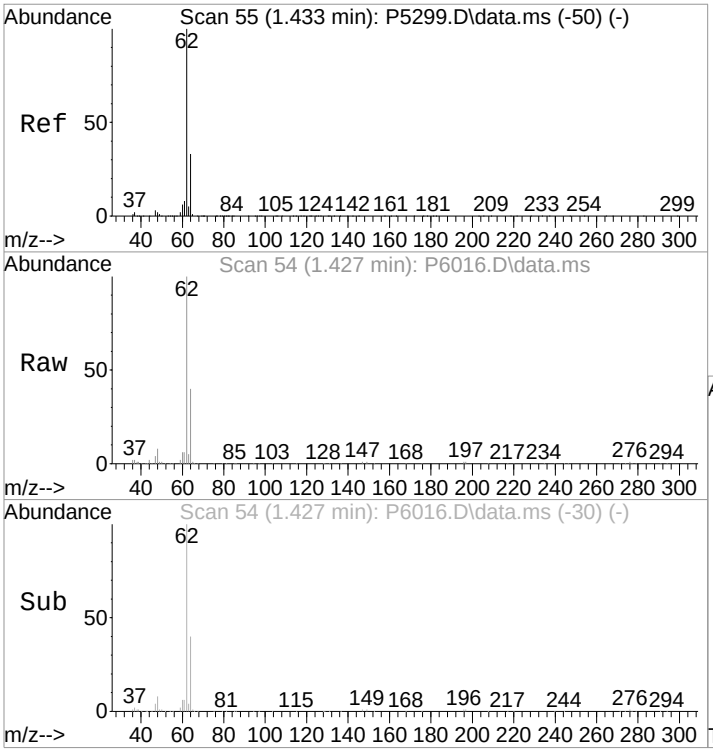
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6016.D
Acq On : 27 Oct 2016 7:23 pm
Operator : K.Ruest
Sample : R1611185-020|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 13:55:53 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



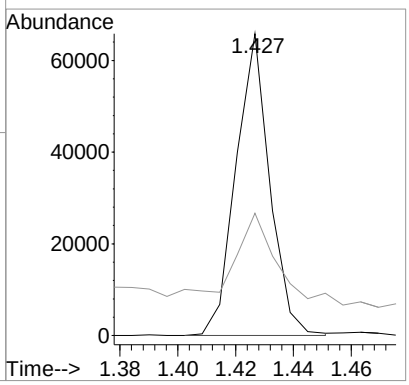
1st 10/28/16
2nd 10/31/16

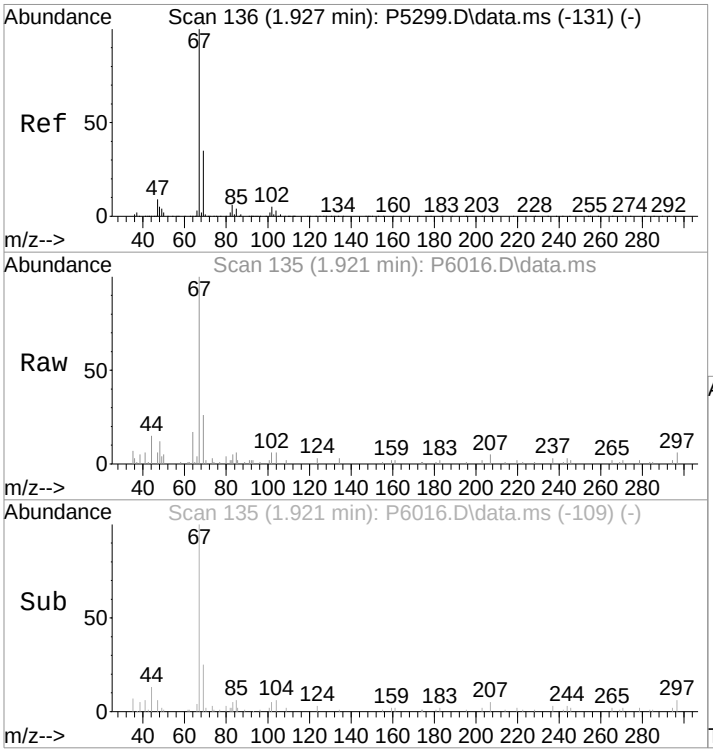


#4
Vinyl Chloride
Concen: 8.54 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 62 Resp: 53594

Ion	Ratio	Lower	Upper
62	100		
64	40.5	13.1	53.1

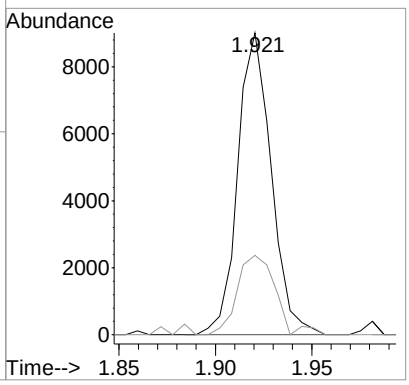


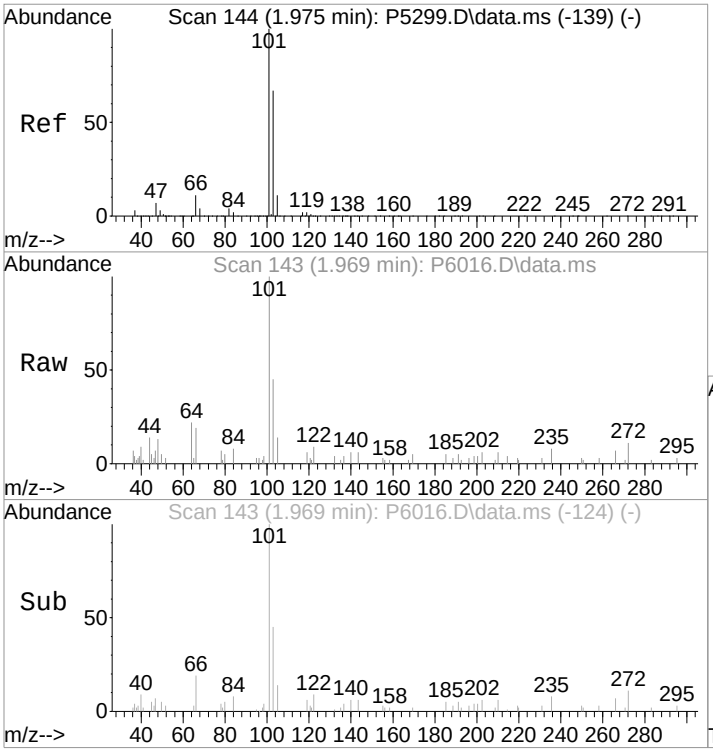


#7
Freon 21
Concen: 1.31 ppb
RT: 1.921 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 67 Resp: 10908

Ion	Ratio	Lower	Upper
67	100		
69	26.3	14.4	54.4

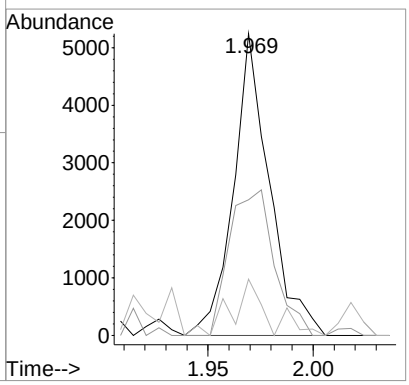


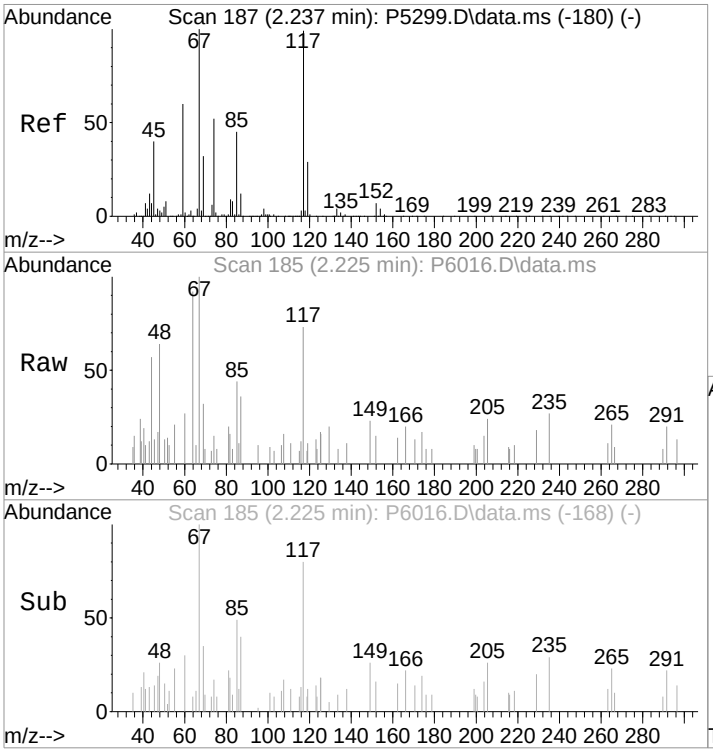


#8
Trichlorofluoromethane
Concen: 0.86 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion:101 Resp: 6248

Ion	Ratio	Lower	Upper
101	100		
103	45.0	47.3	87.3#
66	18.6	0.0	31.5

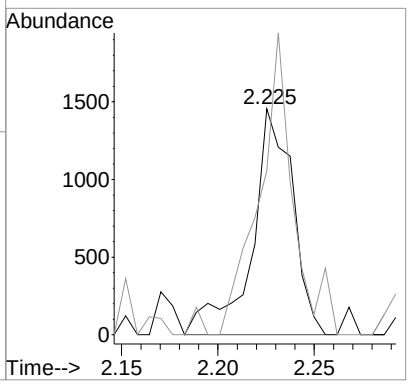


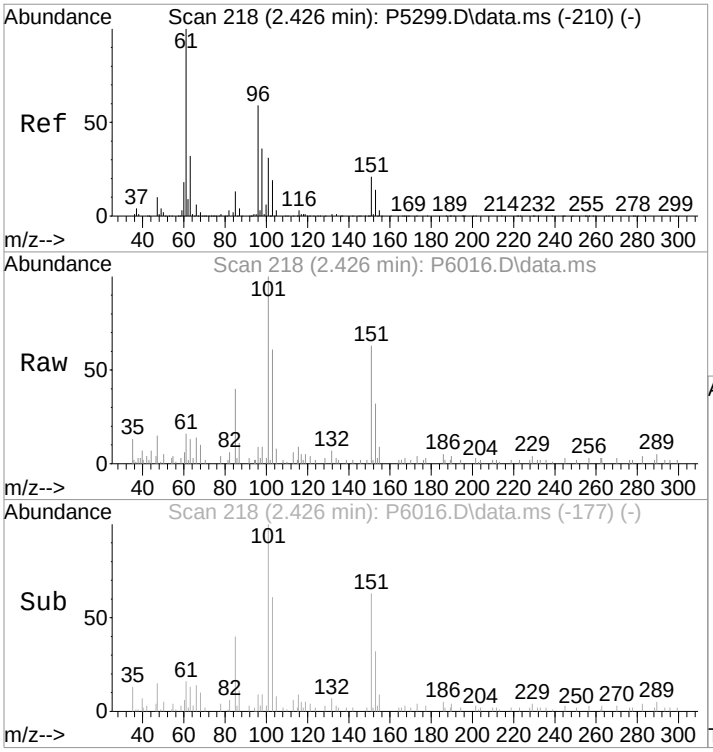


#10
Freon 123a
Concen: 0.43 ppb
RT: 2.225 min Scan# 185
Delta R.T. -0.012 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 67 Resp: 2150

Ion	Ratio	Lower	Upper
67	100		
117	72.6	78.8	118.8#

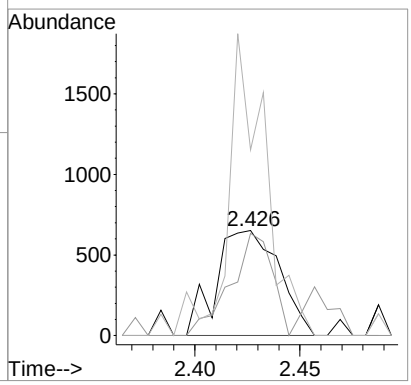


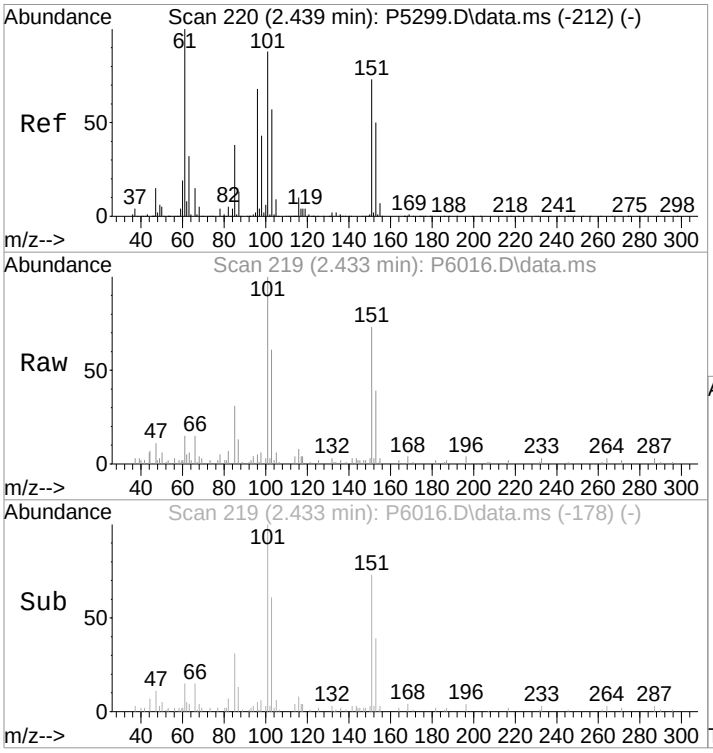


#13
1,1-Diclethene
Concen: 0.25 ppb
RT: 2.426 min Scan# 218
Delta R.T. 0.000 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 96 Resp: 1365

Ion	Ratio	Lower	Upper
96	100		
98	97.2	41.8	81.8#
61	176.8	150.1	190.1

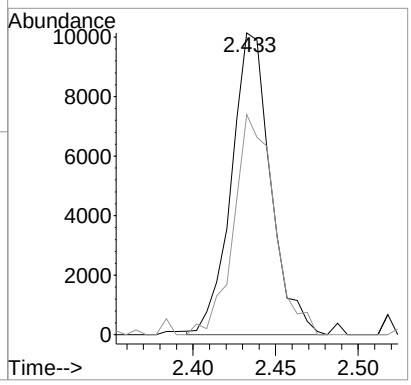


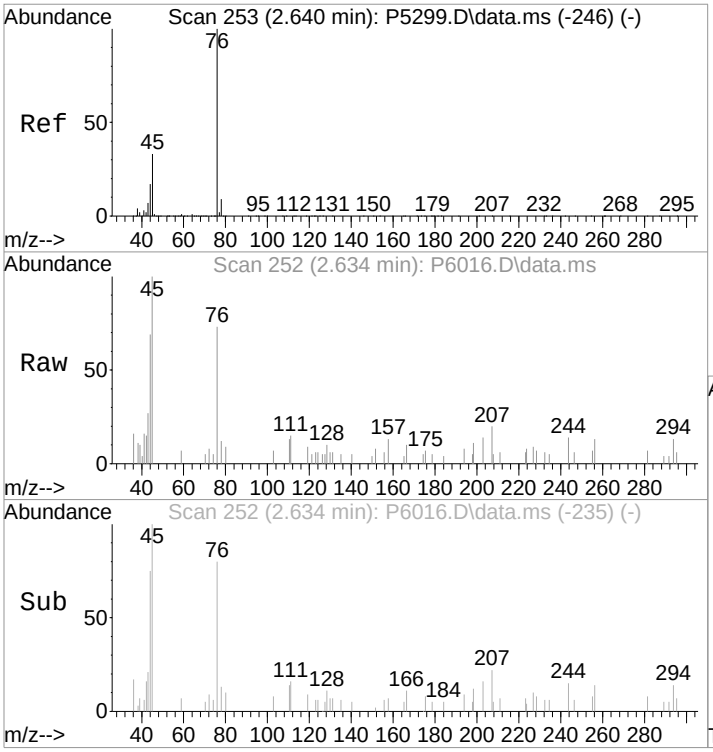


#14
Freon 113
Concen: 2.88 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion:101 Resp: 16840

Ion	Ratio	Lower	Upper
101	100		
151	72.9	62.6	102.6

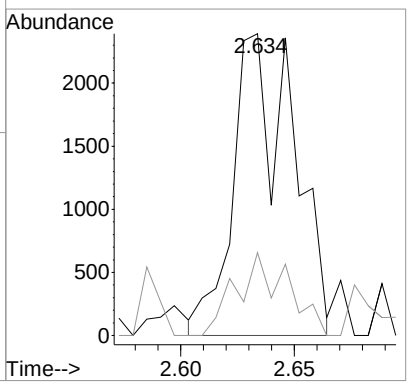


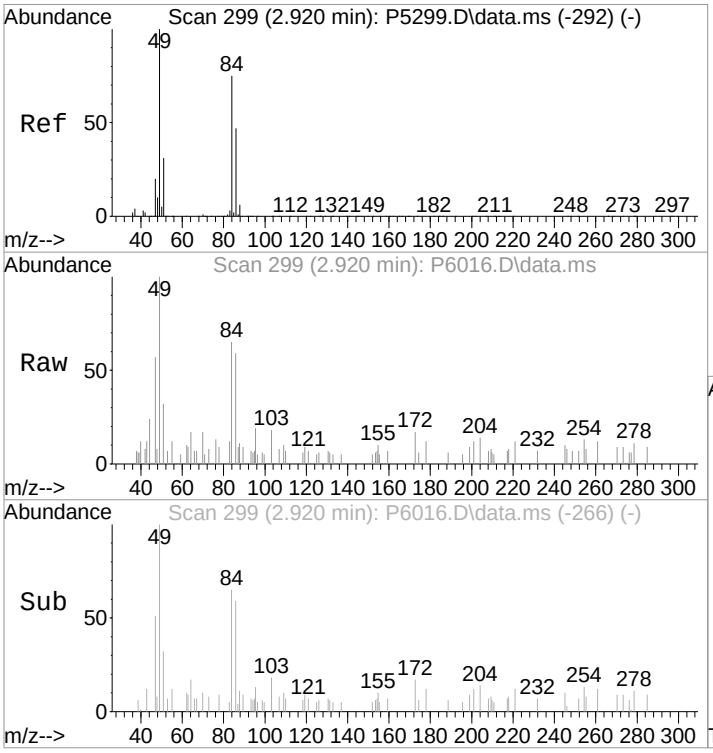


#16
2-Propanol
Concen: 15.82 ppb m
RT: 2.634 min Scan# 252
Delta R.T. -0.006 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 45 Resp: 4364

Ion	Ratio	Lower	Upper
45	100		
43	27.5	1.6	41.6

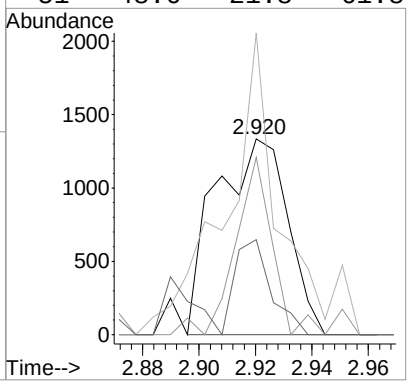


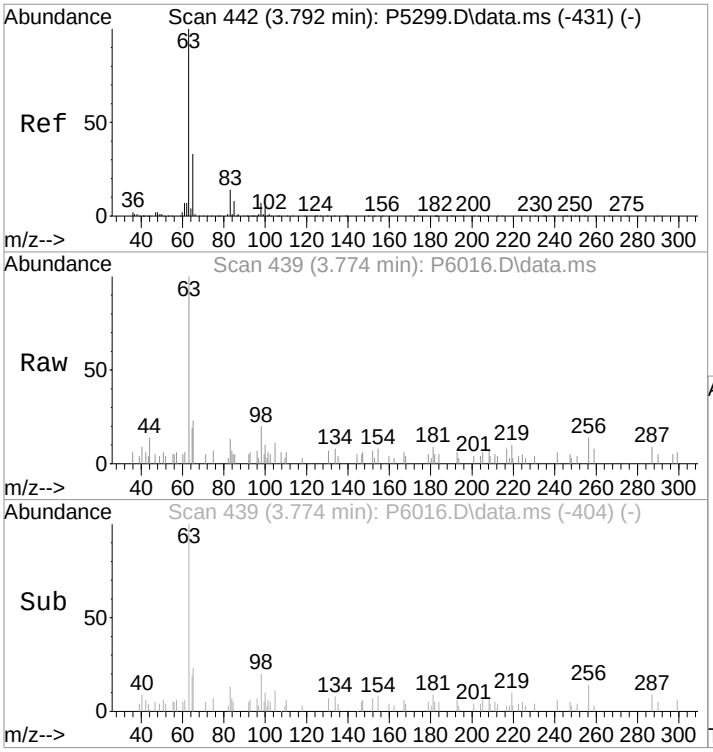


#22
Methylene Chloride
Concen: 0.41 ppb m
RT: 2.920 min Scan# 299
Delta R.T. 0.000 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 84 Resp: 2380

Ion	Ratio	Lower	Upper
84	100		
86	90.6	42.8	82.8#
49	154.2	113.9	153.9#
51	48.6	21.8	61.8

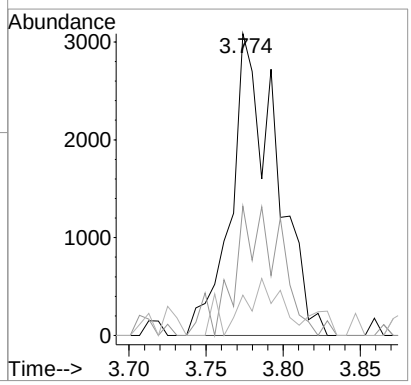


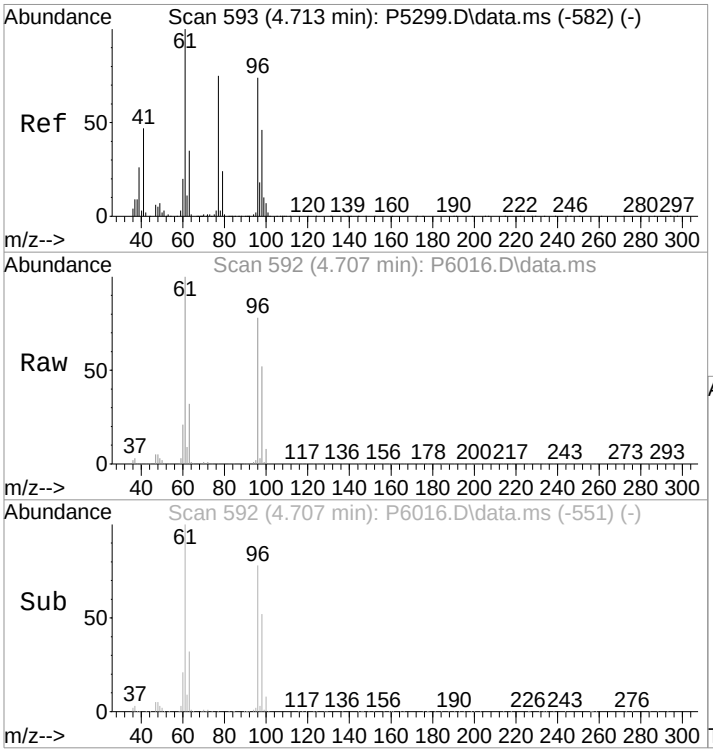


#28
1,1-Diclethane
Concen: 0.61 ppb
RT: 3.774 min Scan# 439
Delta R.T. -0.012 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 63 Resp: 6295

Ion	Ratio	Lower	Upper
63	100		
65	42.8	12.9	52.9
83	13.4	0.0	33.5

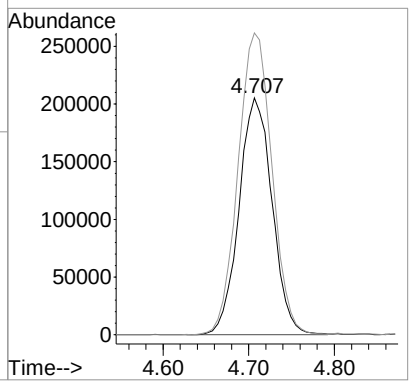


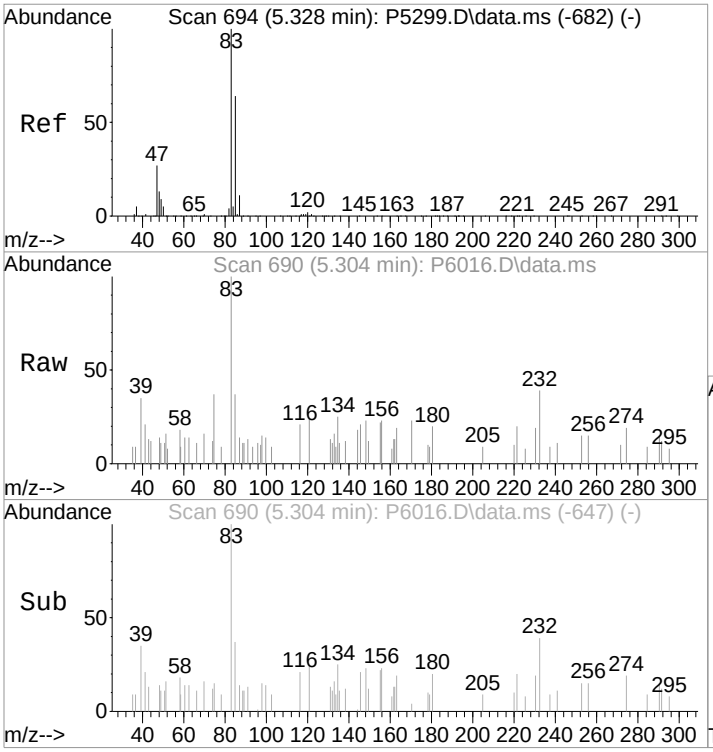


#34
cis-1,2-Dichloroethene
Concen: 87.22 ppb
RT: 4.707 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 96 Resp: 552104

Ion	Ratio	Lower	Upper
96	100		
61	127.4	114.6	154.6

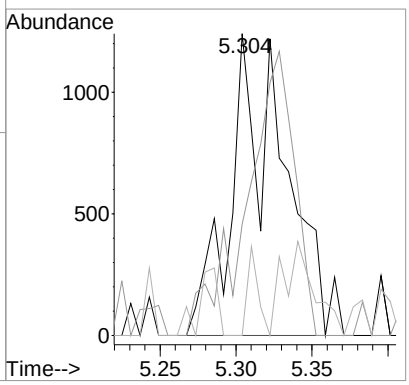


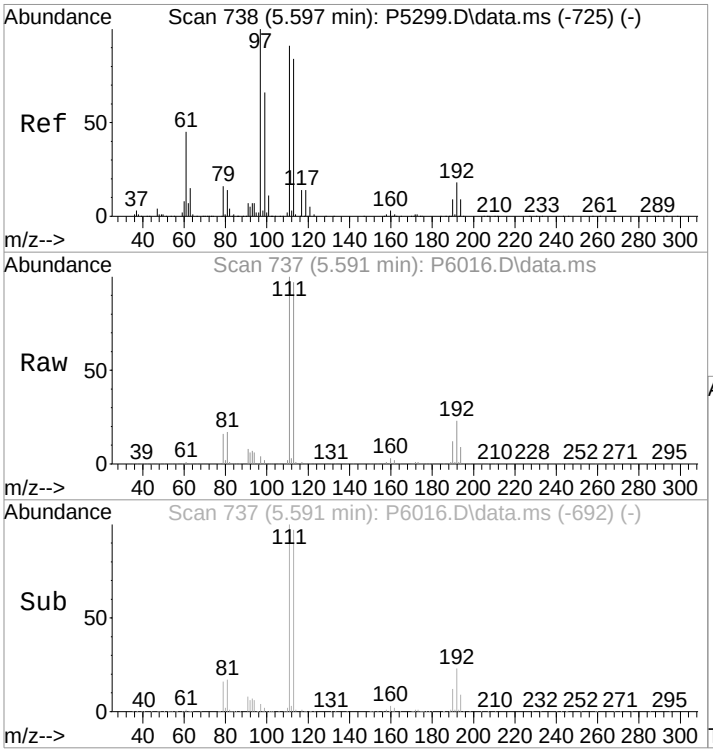


#40
Chloroform
Concen: 0.30 ppb m
RT: 5.304 min Scan# 690
Delta R.T. -0.024 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 83 Resp: 2964

Ion	Ratio	Lower	Upper
83	100		
85	36.9	44.1	84.1#
47	0.0	7.4	47.4#

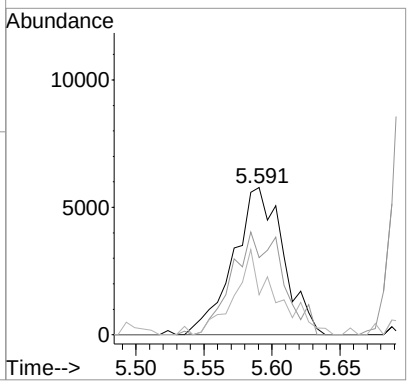


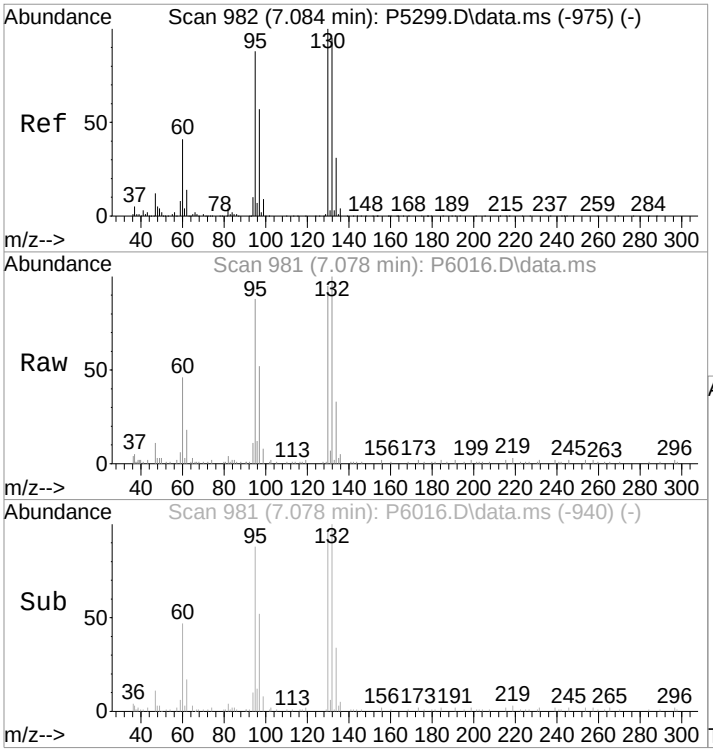


#41
1,1,1-Trichloroethane
Concen: 1.59 ppb
RT: 5.591 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion: 97 Resp: 14725

Ion	Ratio	Lower	Upper
97	100		
99	56.7	46.2	86.2
61	27.1	25.3	65.3

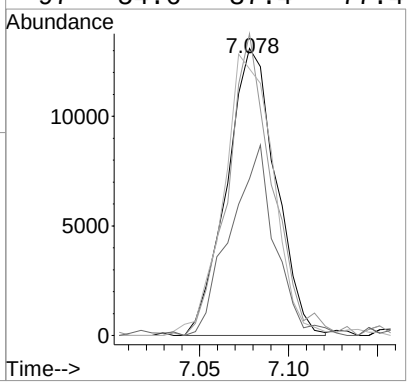




#54
Trichloroethene
Concen: 3.73 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6016.D
Acq: 27 Oct 2016 7:23 pm

Tgt Ion:130 Resp: 25137

Ion	Ratio	Lower	Upper
130	100		
132	105.2	75.2	115.2
95	92.9	68.1	108.1
97	54.6	37.4	77.4

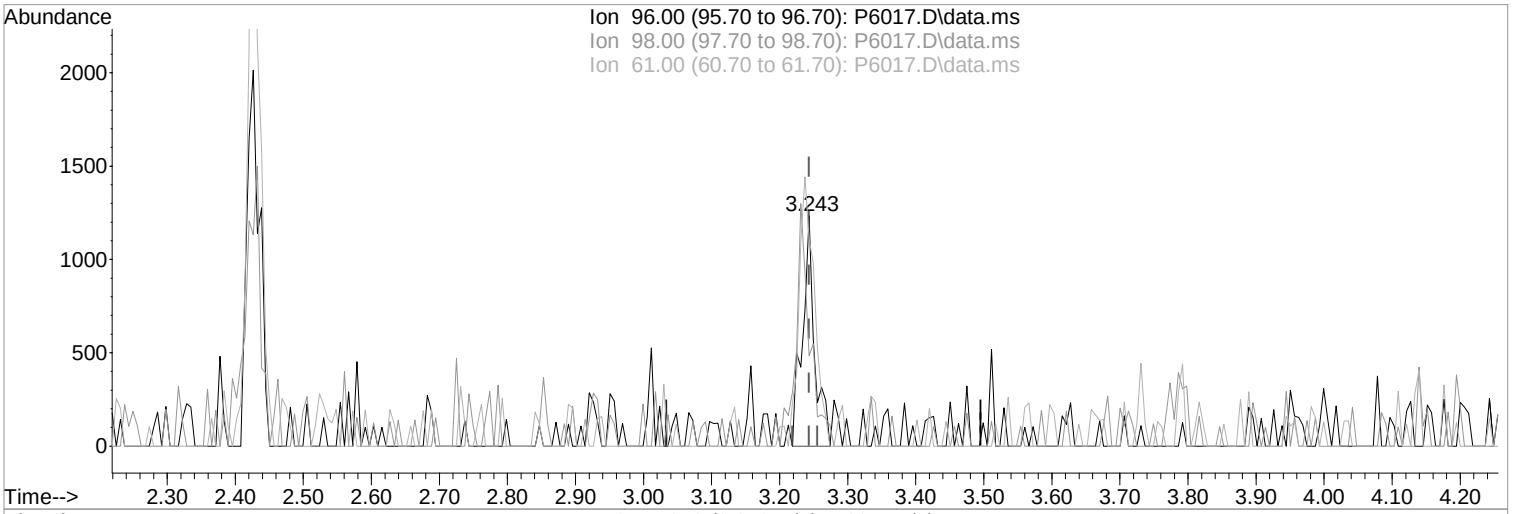


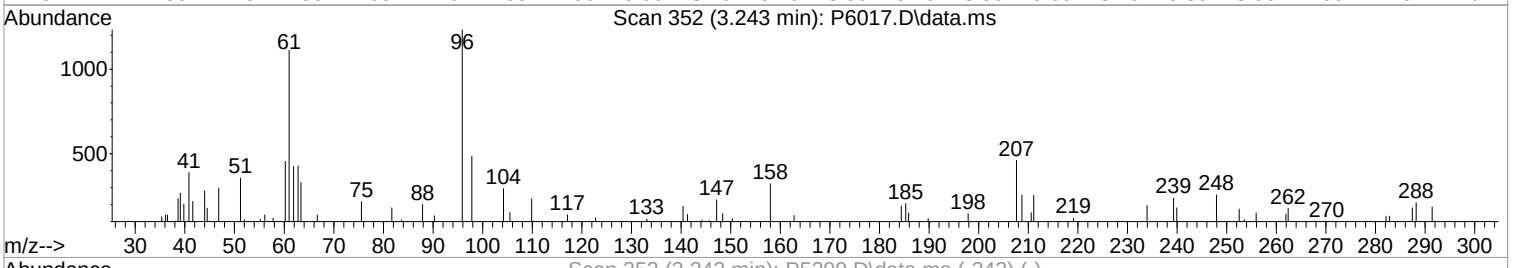
1st 10/28/16
2nd 10/31/16

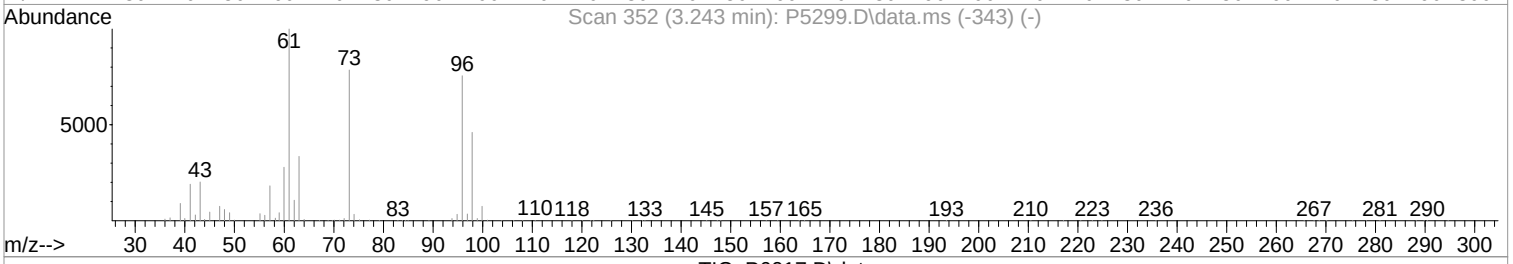
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6017.D
Acq On : 27 Oct 2016 7:53 pm
Operator : K.Ruest
Sample : R1611185-021|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 08:41:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6017.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.25 ppb m

response 1554

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	39.33#
61.00	132.40	90.11#
0.00	0.00	0.00

Manual Integration:

After

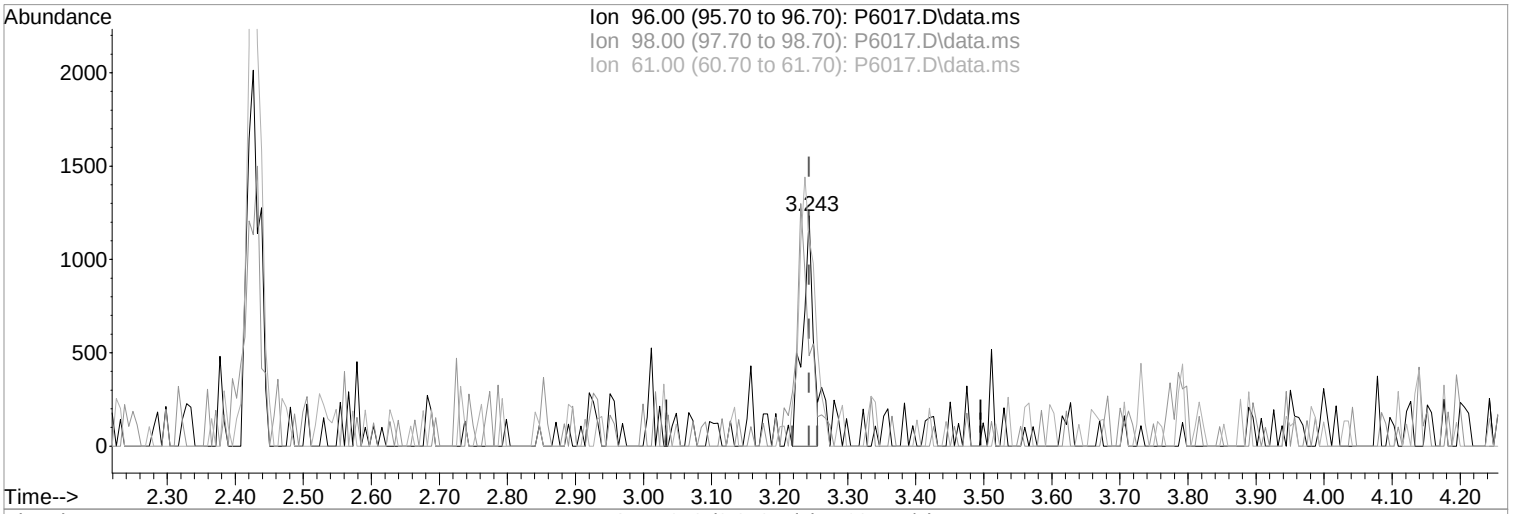
Split Peak

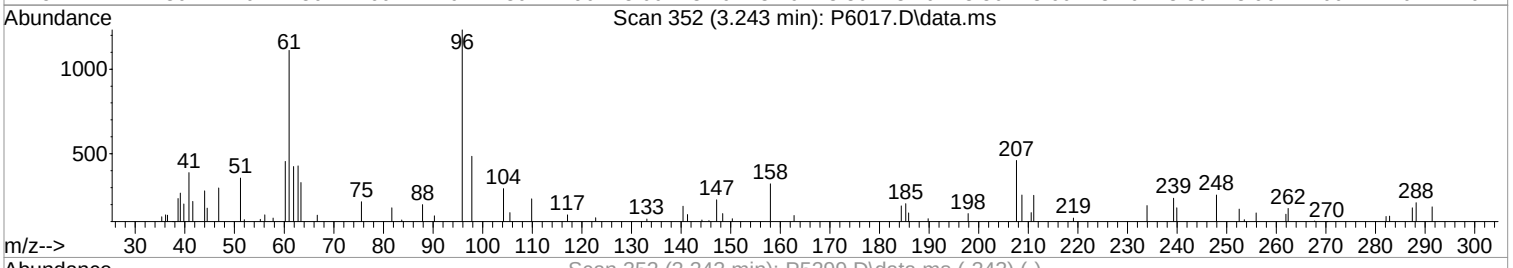
10/28/16

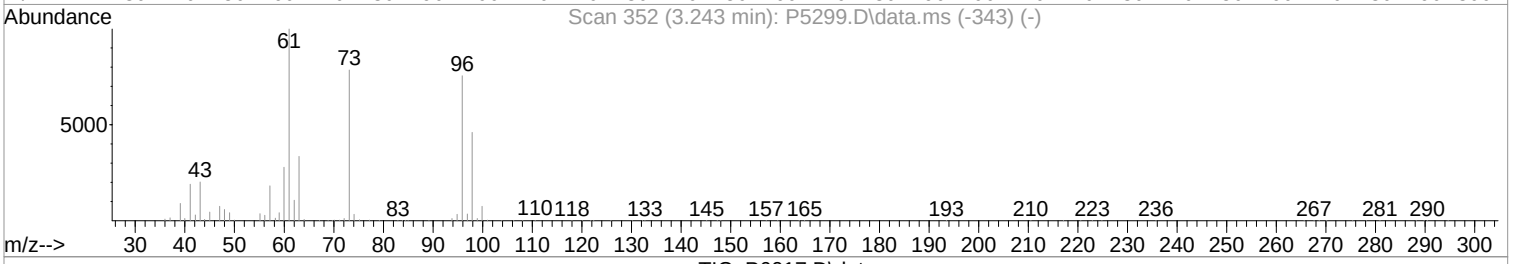
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6017.D
Acq On : 27 Oct 2016 7:53 pm
Operator : K.Ruest
Sample : R1611185-021|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 08:41:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6017.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.22 ppb

response 1349

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	39.33#
61.00	132.40	90.11#
0.00	0.00	0.00

Manual Integration:

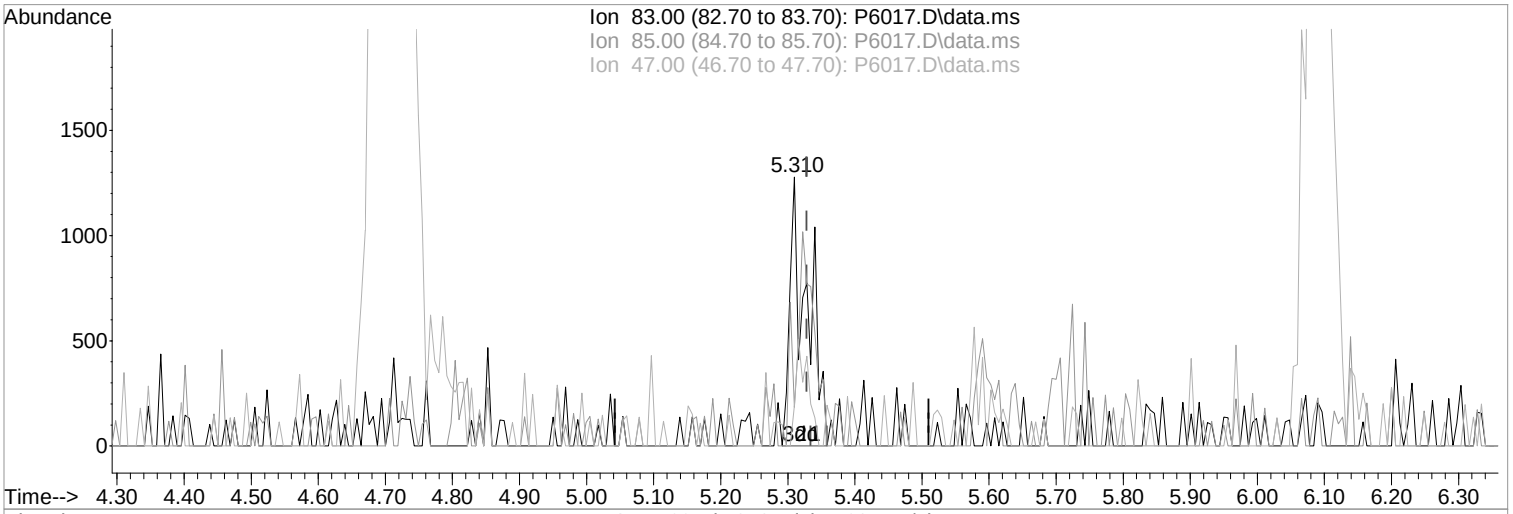
Before

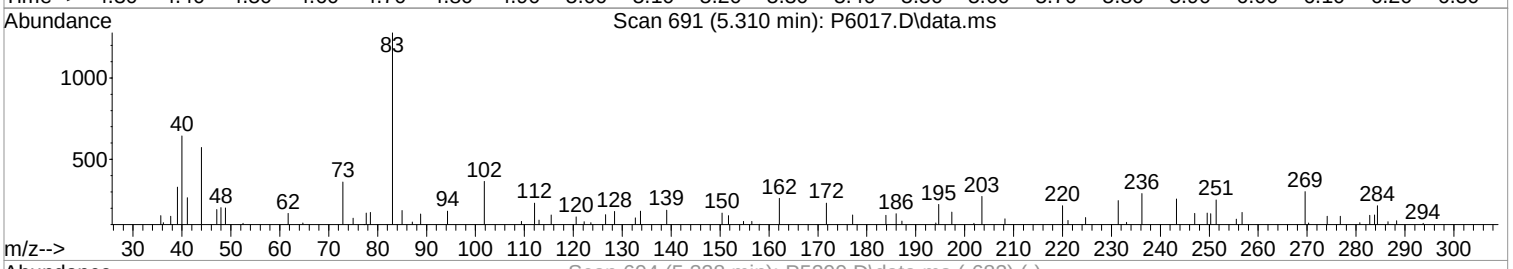
10/28/16

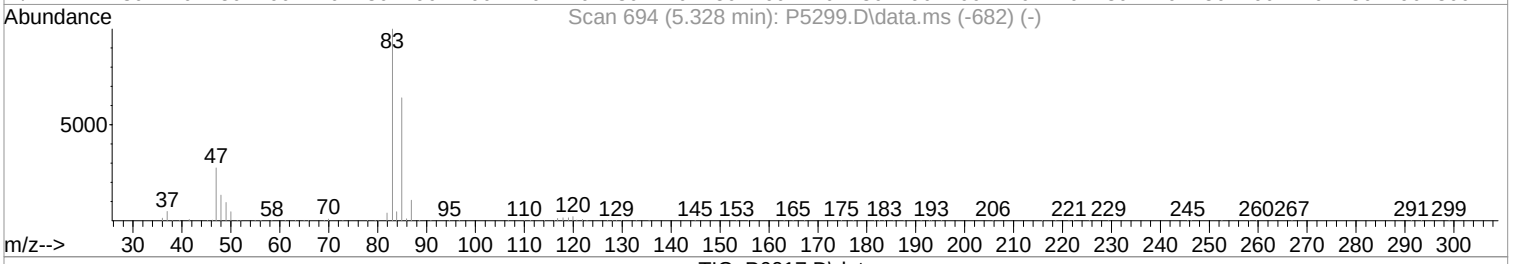
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6017.D
Acq On : 27 Oct 2016 7:53 pm
Operator : K.Ruest
Sample : R1611185-021|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 08:41:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6017.D\data.ms

(40) Chloroform (P)

5.310min (-0.018) 0.23 ppb m

response 2269

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	14.48#
47.00	27.40	15.02
0.00	0.00	0.00

Manual Integration:

After

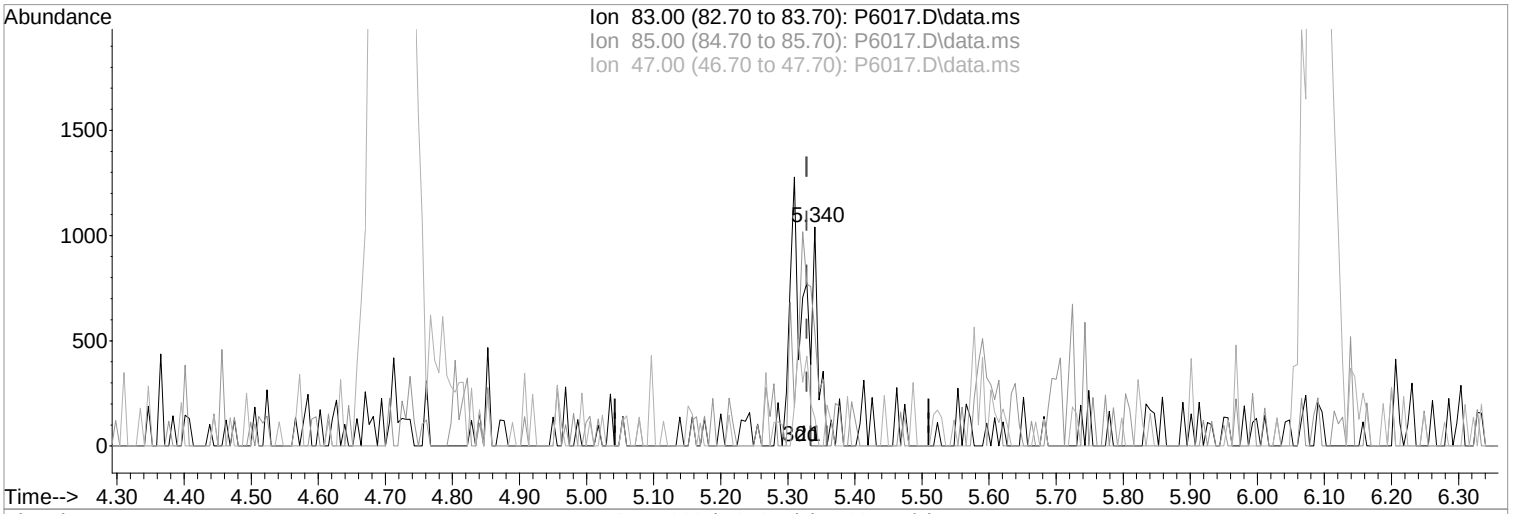
Split Peak

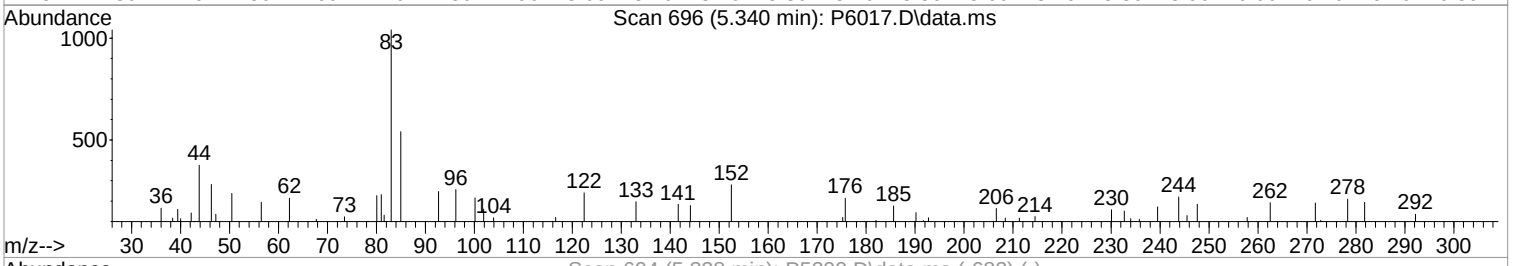
10/28/16

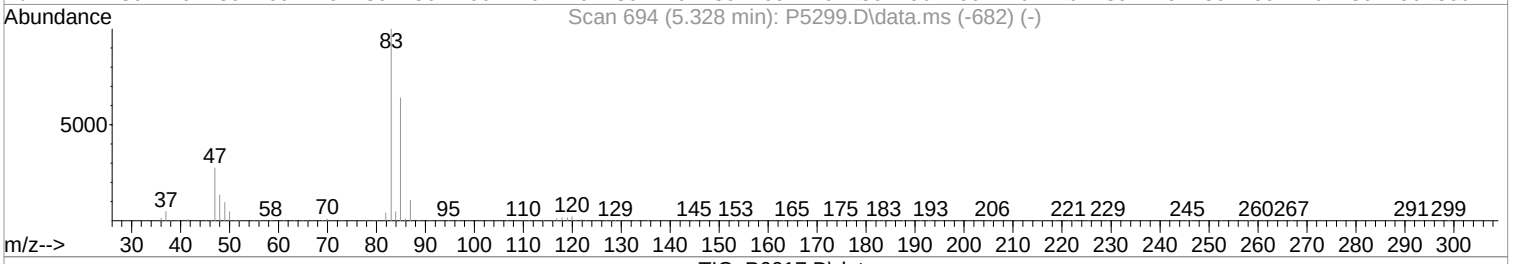
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6017.D
Acq On : 27 Oct 2016 7:53 pm
Operator : K.Ruest
Sample : R1611185-021|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 08:41:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6017.D\data.ms

(40) Chloroform (P)

5.340min (+0.012) 0.06 ppb

response 591

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	51.97
47.00	27.40	12.97
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6017.D
Acq On : 27 Oct 2016 7:53 pm
Operator : K.Ruest
Sample : R1611185-021|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 13:58:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

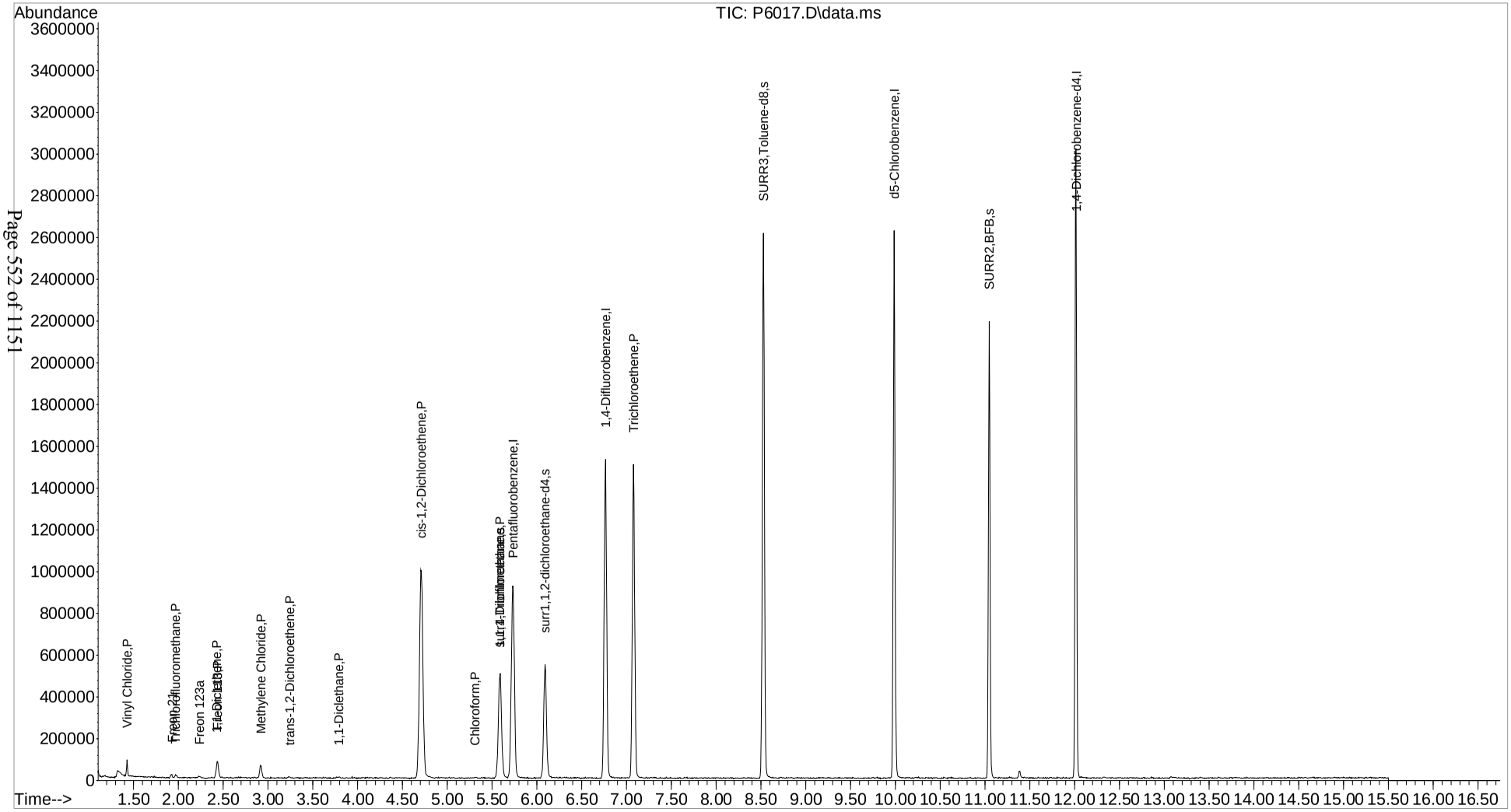
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	781487	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1259392	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1151159	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	596175	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	365020	54.31	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.62%				
48) surr1,1,2-dichloroetha...	6.090	65	415832	54.46	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.92%				
65) SURR3,Toluene-d8	8.529	98	1565104	56.82	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.64%				
70) SURR2,BFB	11.047	95	561330	52.24	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.48%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	40232	6.51	ppb		88
7) Freon 21	1.926	67	10115	1.24	ppb		74
8) Trichlorofluoromethane	1.963	101	8146	1.14	ppb		96
10) Freon 123a	2.231	67	2574	0.52	ppb	#	73
13) 1,1-Diclethene	2.426	96	2645	0.49	ppb		95
14) Freon 113	2.432	101	28487	4.94	ppb		93
22) Methylene Chloride	2.920	84	24730	4.32	ppb		95
26) trans-1,2-Dichloroethene	3.243	96	1554m	0.25	ppb		
28) 1,1-Diclethane	3.792	63	5283	0.52	ppb		93
34) cis-1,2-Dichloroethene	4.706	96	632921	101.49	ppb		93
40) Chloroform	5.310	83	2269m	0.23	ppb		
41) 1,1,1-Trichloroethane	5.584	97	13175	1.45	ppb	#	70
54) Trichloroethene	7.078	130	517643	77.85	ppb		94

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

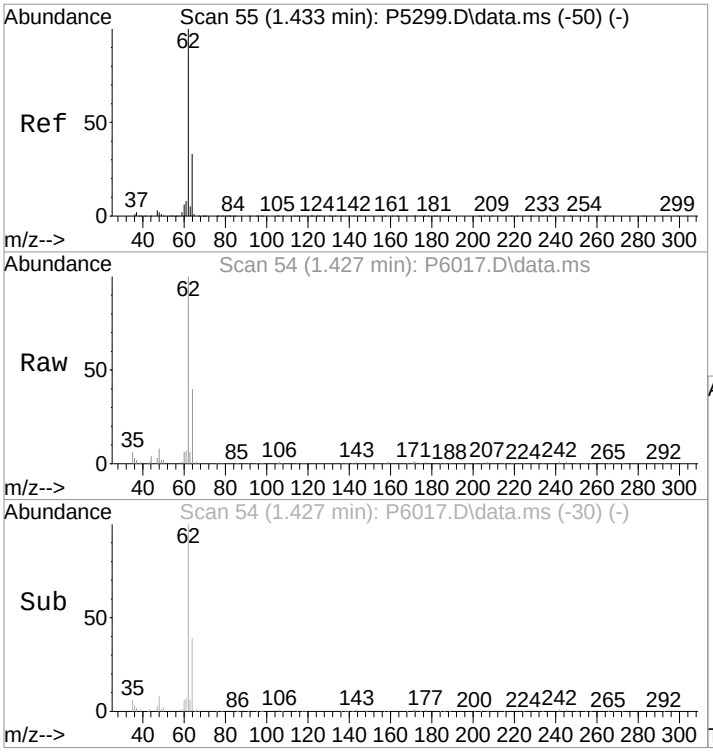
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6017.D
Acq On : 27 Oct 2016 7:53 pm
Operator : K.Ruest
Sample : R1611185-021|50 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 13:58:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



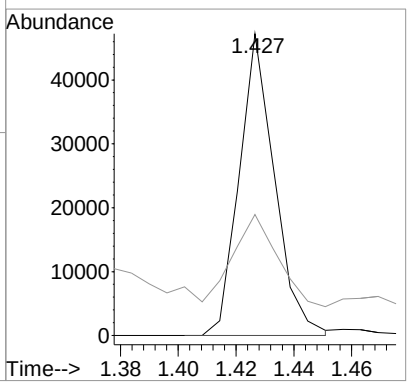
1st 10/28/16
2nd 10/31/16

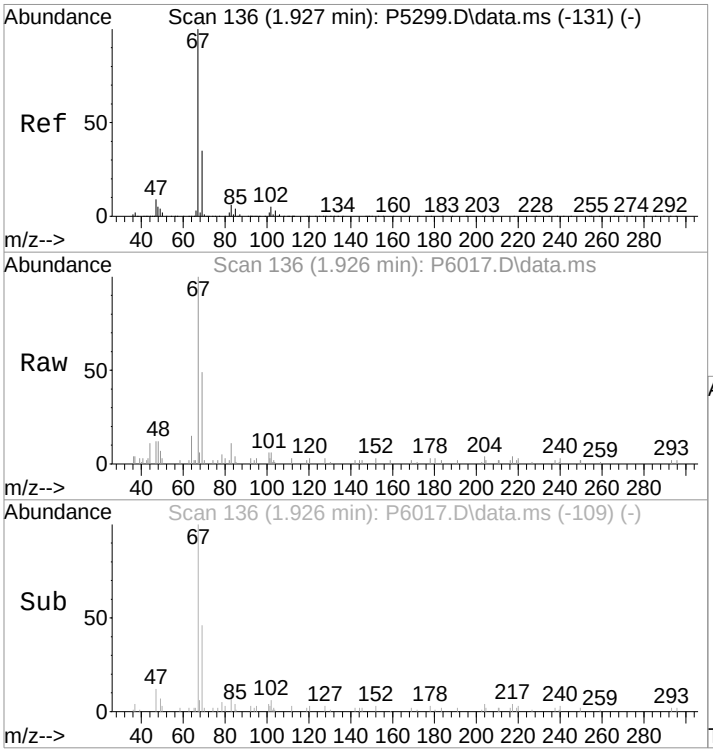


#4
Vinyl Chloride
Concen: 6.51 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 62 Resp: 40232

Ion	Ratio	Lower	Upper
62	100		
64	40.1	13.1	53.1

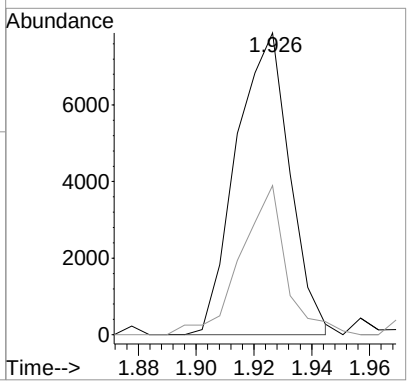


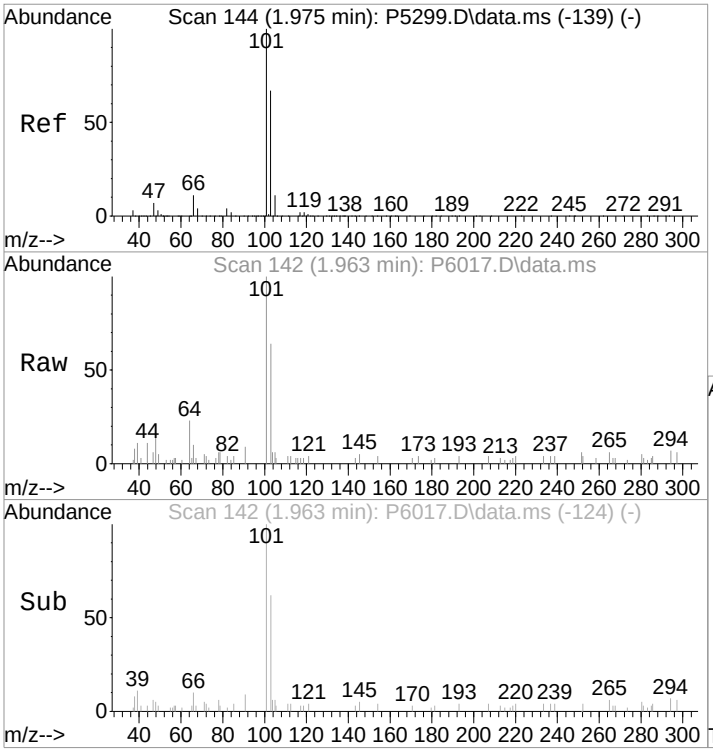


#7
Freon 21
Concen: 1.24 ppb
RT: 1.926 min Scan# 136
Delta R.T. -0.000 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 67 Resp: 10115

Ion	Ratio	Lower	Upper
67	100		
69	49.4	14.4	54.4

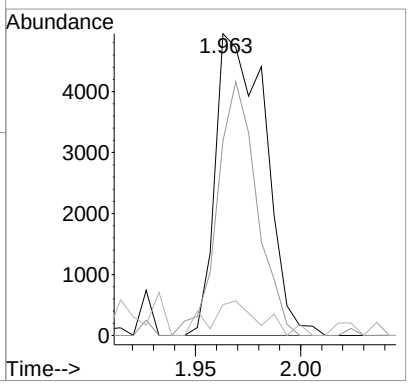


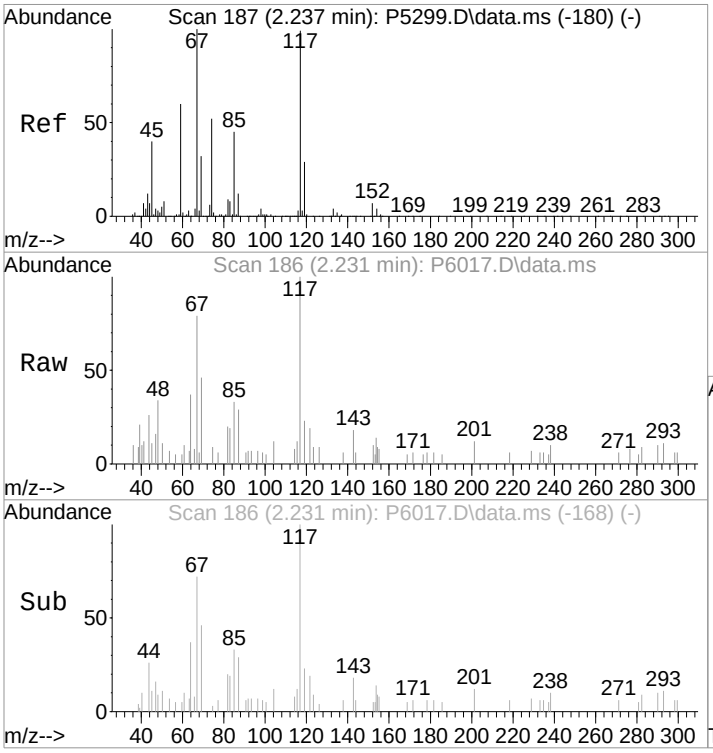


#8
Trichlorofluoromethane
Concen: 1.14 ppb
RT: 1.963 min Scan# 142
Delta R.T. -0.012 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion:101 Resp: 8146

Ion	Ratio	Lower	Upper
101	100		
103	64.4	47.3	87.3
66	10.2	0.0	31.5

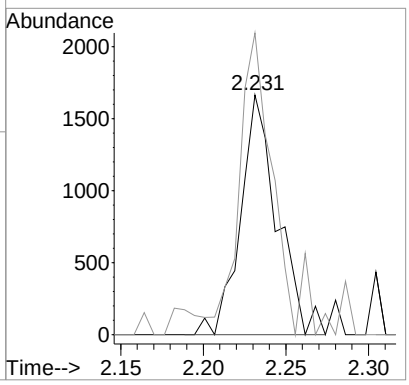


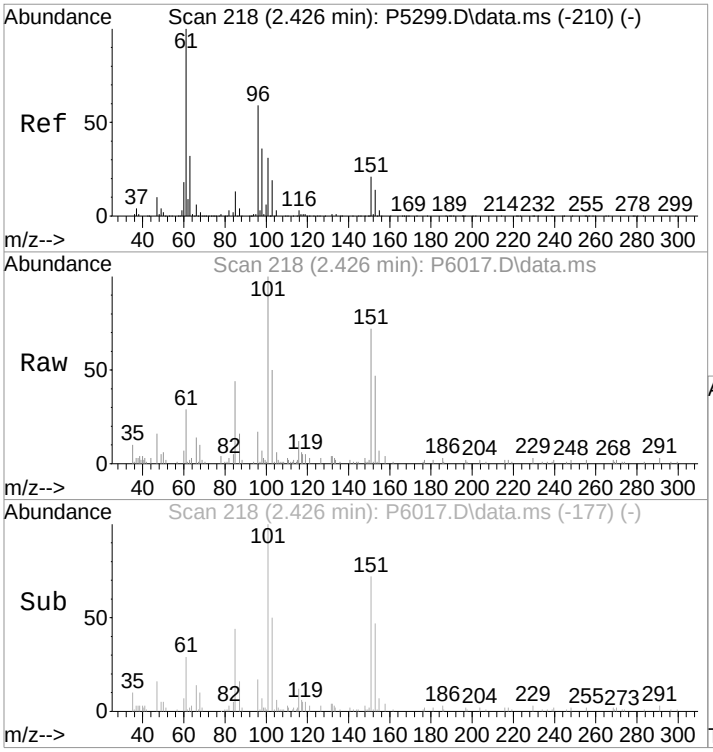


#10
Freon 123a
Concen: 0.52 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 67 Resp: 2574

Ion	Ratio	Lower	Upper
67	100		
117	125.9	78.8	118.8#

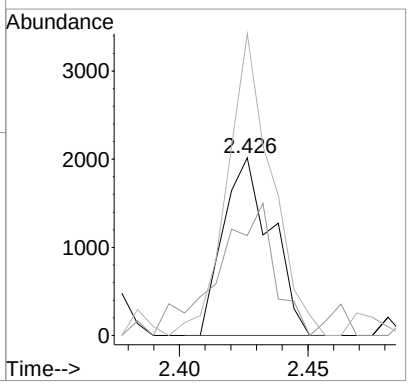


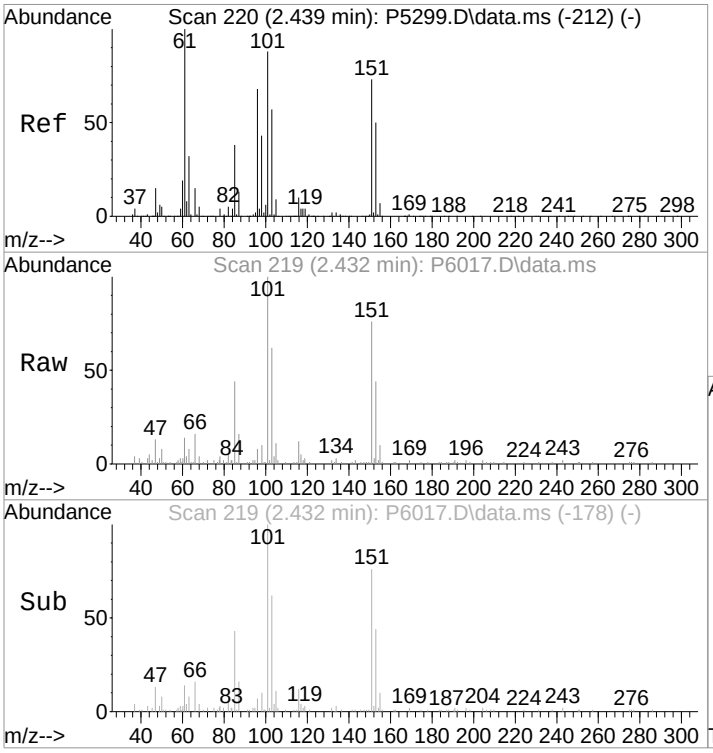


#13
1,1-Diclethene
Concen: 0.49 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 96 Resp: 2645

Ion	Ratio	Lower	Upper
96	100		
98	56.2	41.8	81.8
61	175.9	150.1	190.1

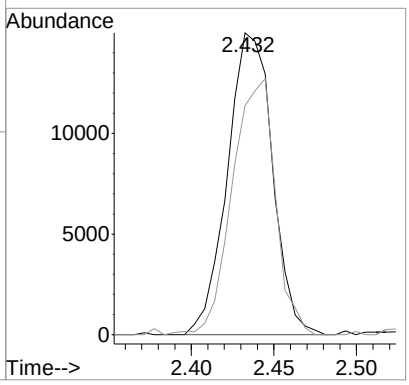


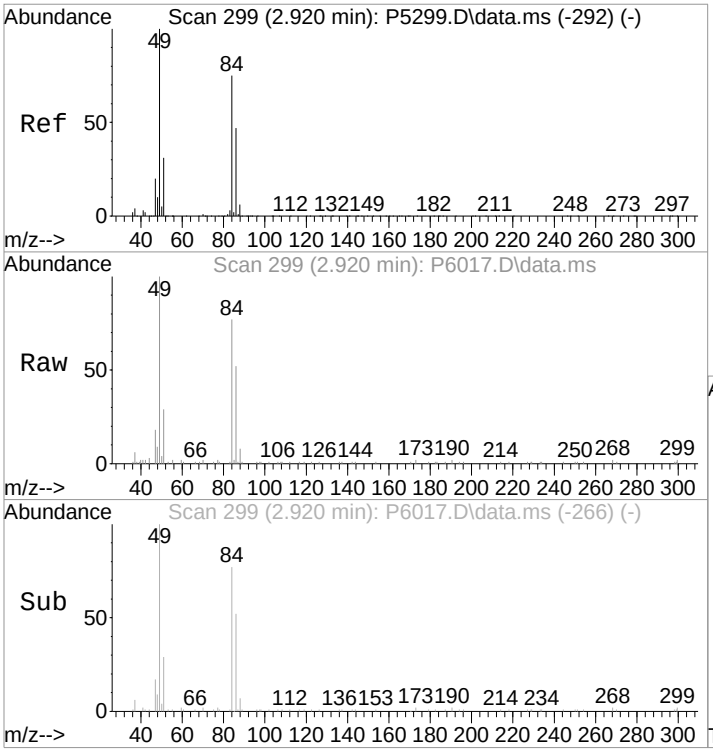


#14
Freon 113
Concen: 4.94 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion:101 Resp: 28487

Ion	Ratio	Lower	Upper
101	100		
151	75.9	62.6	102.6

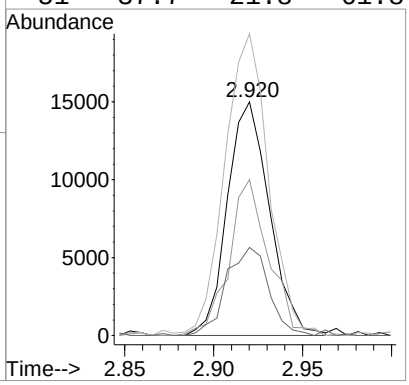


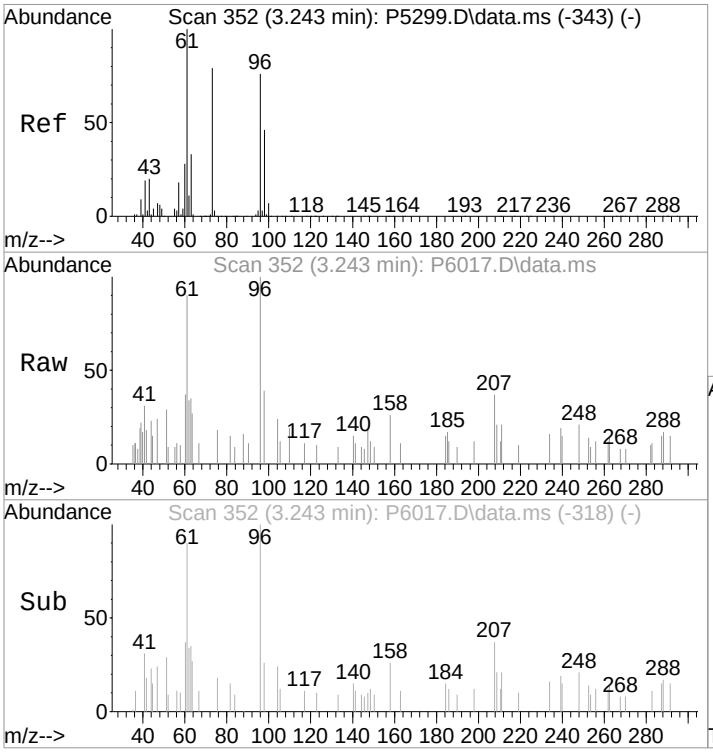


#22
Methylene Chloride
Concen: 4.32 ppb
RT: 2.920 min Scan# 299
Delta R.T. -0.000 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 84 Resp: 24730

Ion	Ratio	Lower	Upper
84	100		
86	66.7	42.8	82.8
49	129.3	113.9	153.9
51	37.7	21.8	61.8

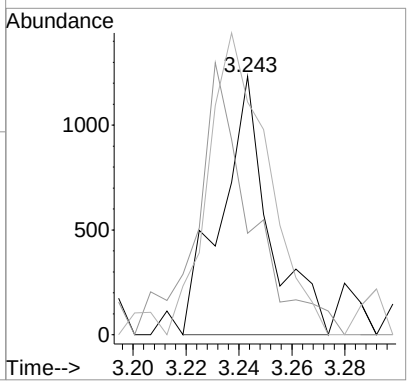


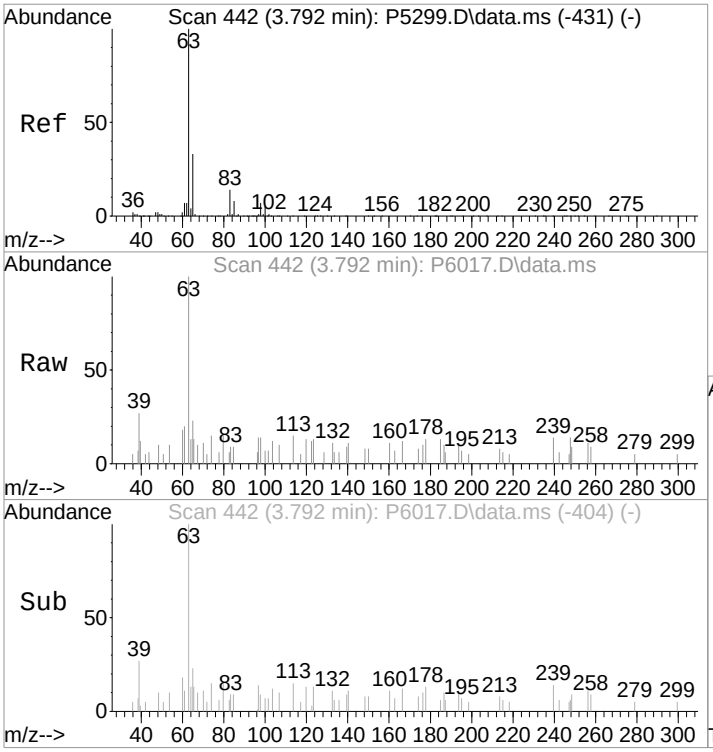


#26
trans-1,2-Dichloroethene
Concen: 0.25 ppb m
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 96 Resp: 1554

Ion	Ratio	Lower	Upper
96	100		
98	39.3	41.0	81.0#
61	90.1	112.4	152.4#

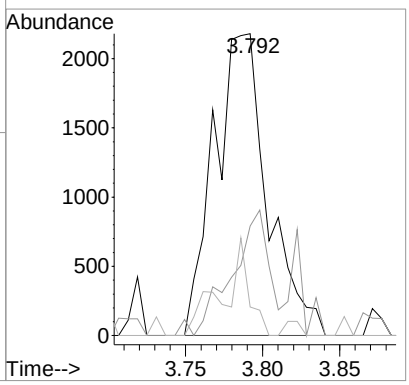


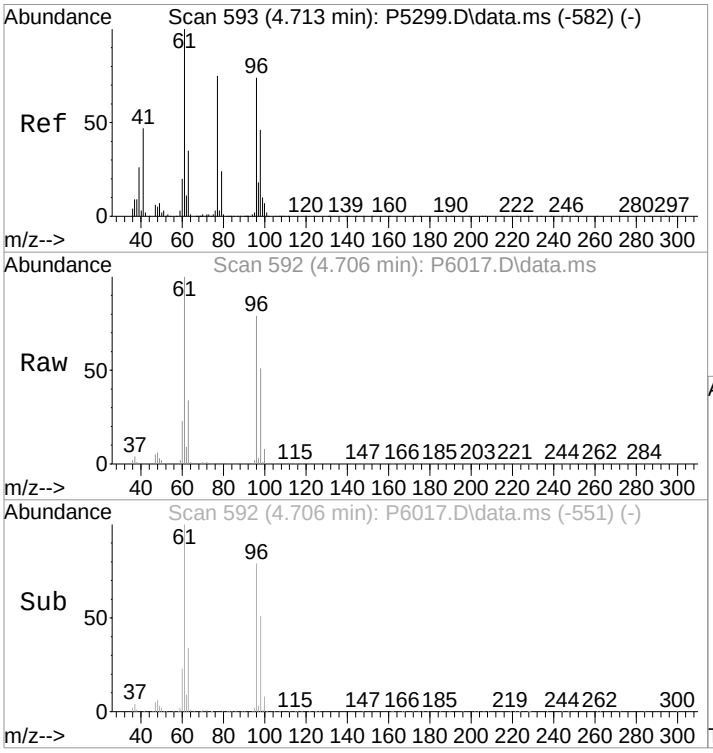


#28
1,1-Diclethane
Concen: 0.52 ppb
RT: 3.792 min Scan# 442
Delta R.T. 0.006 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 63 Resp: 5283

Ion	Ratio	Lower	Upper
63	100		
65	36.3	12.9	52.9
83	9.4	0.0	33.5

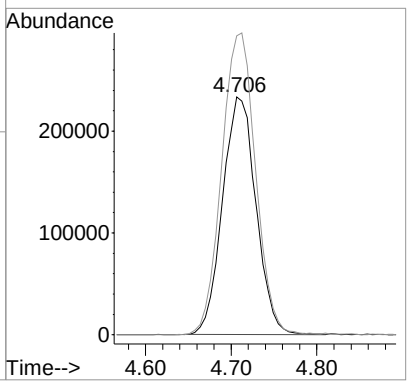


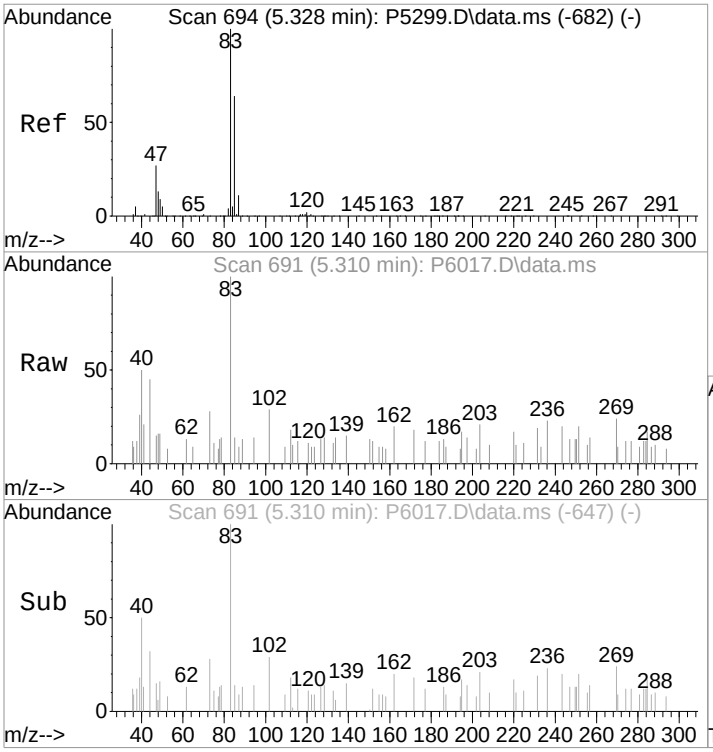


#34
cis-1,2-Dichloroethene
Concen: 101.49 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 96 Resp: 632921

Ion	Ratio	Lower	Upper
96	100		
61	125.8	114.6	154.6

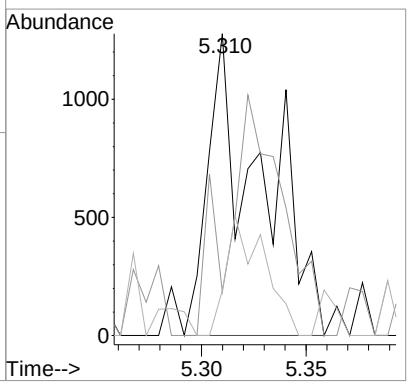


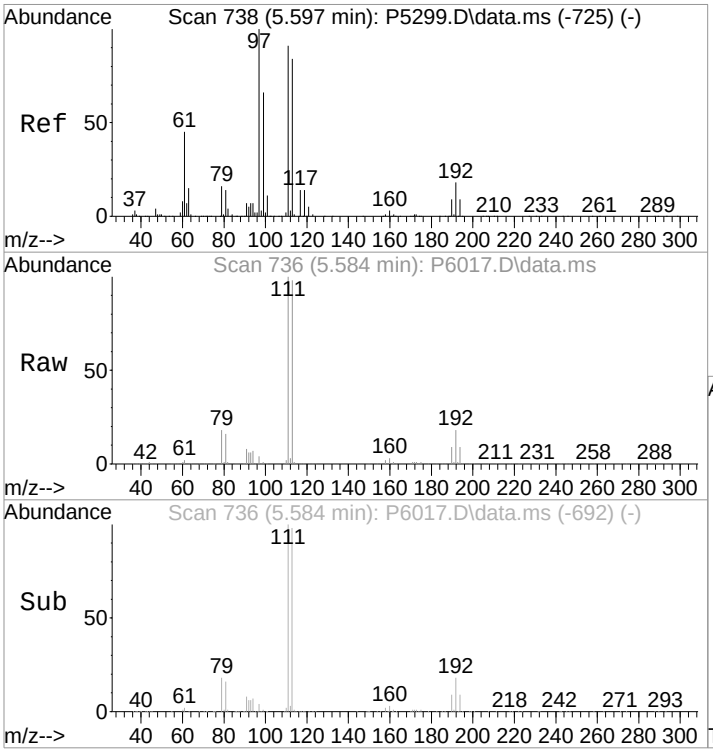


#40
Chloroform
Concen: 0.23 ppb m
RT: 5.310 min Scan# 691
Delta R.T. -0.018 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 83 Resp: 2269

Ion	Ratio	Lower	Upper
83	100		
85	14.5	44.1	84.1#
47	15.0	7.4	47.4

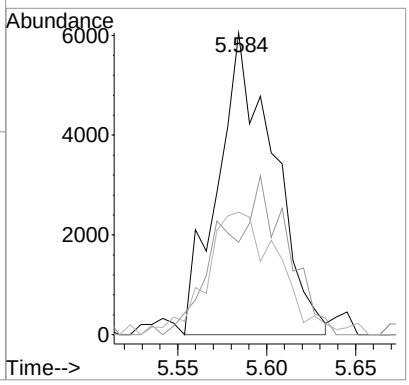


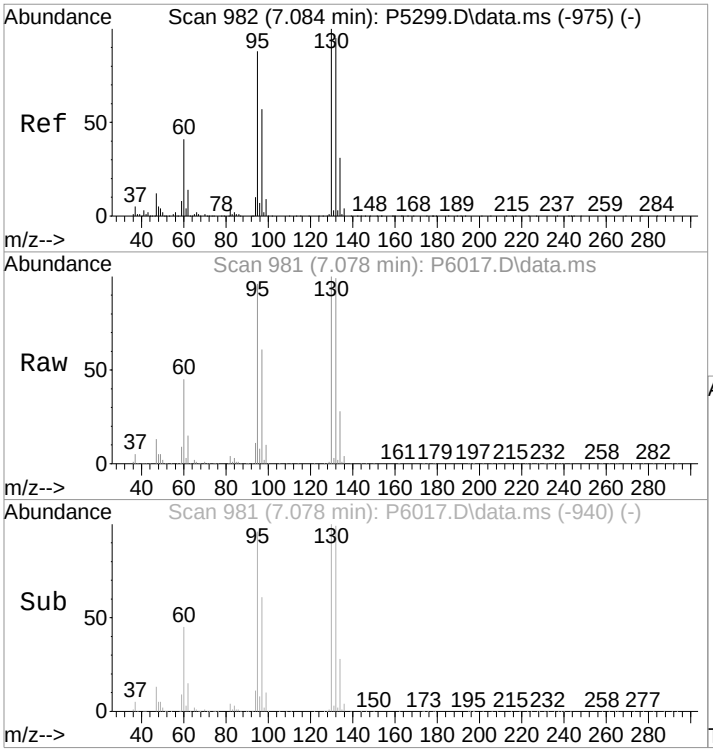


#41
1,1,1-Trichloroethane
Concen: 1.45 ppb
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion: 97 Resp: 13175

Ion	Ratio	Lower	Upper
97	100		
99	30.1	46.2	86.2#
61	39.9	25.3	65.3

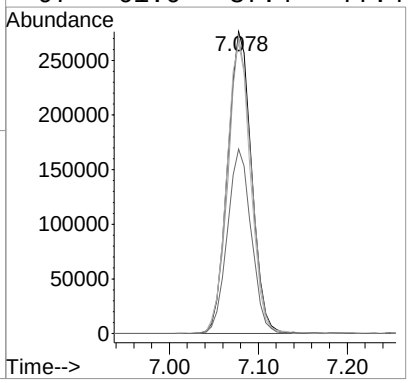




#54
Trichloroethene
Concen: 77.85 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6017.D
Acq: 27 Oct 2016 7:53 pm

Tgt Ion:130 Resp: 517643

Ion	Ratio	Lower	Upper
130	100		
132	98.5	75.2	115.2
95	96.2	68.1	108.1
97	61.0	37.4	77.4



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6006.D
Acq On : 27 Oct 2016 2:20 pm
Operator : K.Ruest
Sample : R1611185-022|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 15:48:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

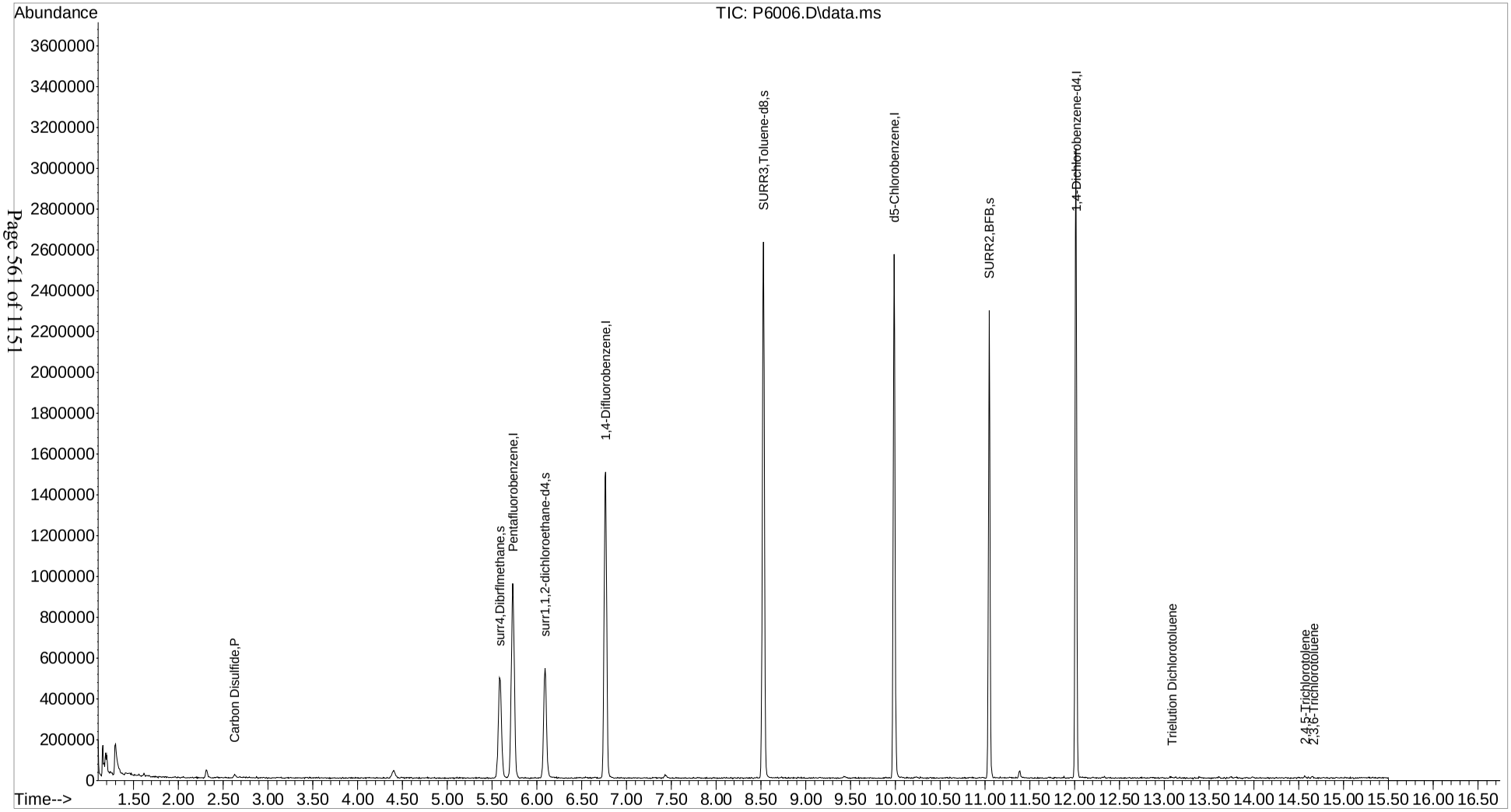
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	786715	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1281923	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1189130	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	612170	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	371950	54.36	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.72%				
48) surr1,1,2-dichloroetha...	6.090	65	432195	55.61	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.22%				
65) SURR3,Toluene-d8	8.529	98	1603391	57.19	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.38%				
70) SURR2,BFB	11.047	95	595233	54.42	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.84%				
Target Compounds							Qvalue
18) Carbon Disulfide	2.628	76	21600	1.25	ppb		95
112) Trielution Dichlorotol...	13.089	125	2746	0.23	ppb	#	74
119) 2,4,5-Trichlorotolene	14.570	159	2061	0.36	ppb	#	83
120) 2,3,6-Trichlorotoluene	14.662	159	1815	0.34	ppb	#	52

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

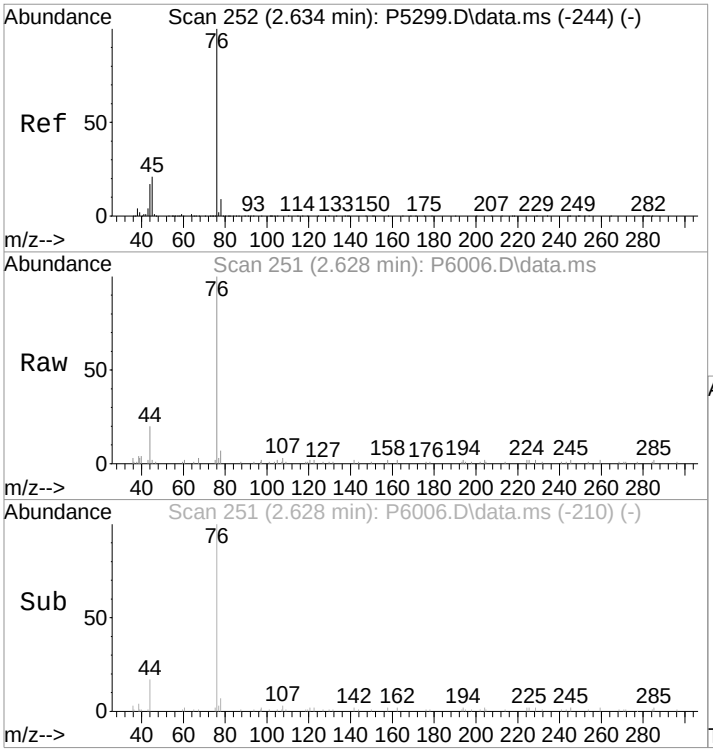
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6006.D
Acq On : 27 Oct 2016 2:20 pm
Operator : K.Ruest
Sample : R1611185-022|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 15:48:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



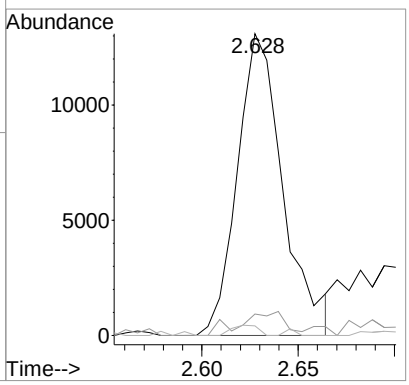
1st 10/27/16
2nd 10/31/16

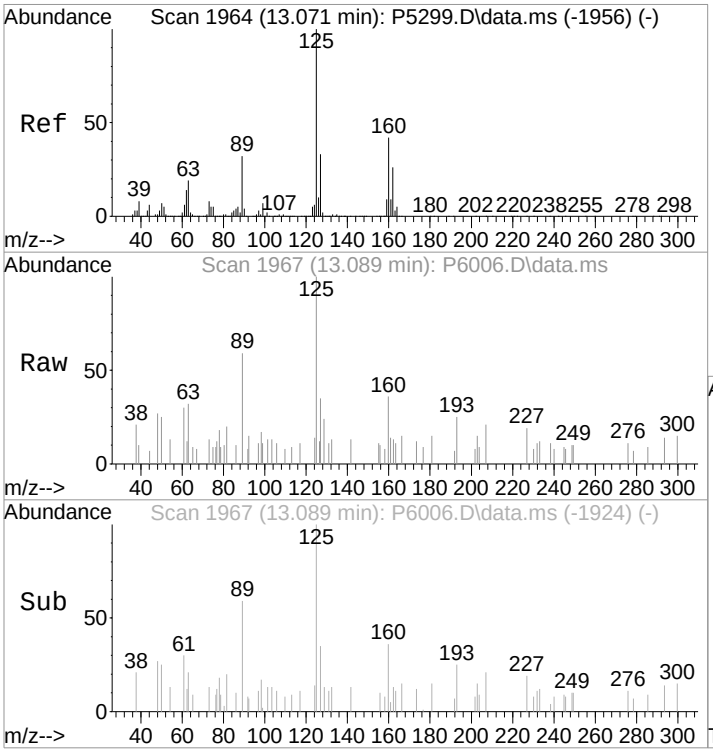


#18
Carbon Disulfide
Concen: 1.25 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P6006.D
Acq: 27 Oct 2016 2:20 pm

Tgt Ion: 76 Resp: 21600

Ion	Ratio	Lower	Upper
76	100		
78	7.1	0.0	29.3
77	3.2	0.0	22.5

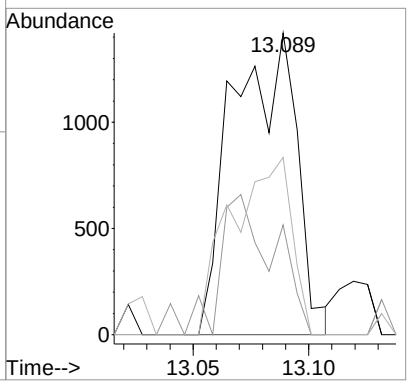


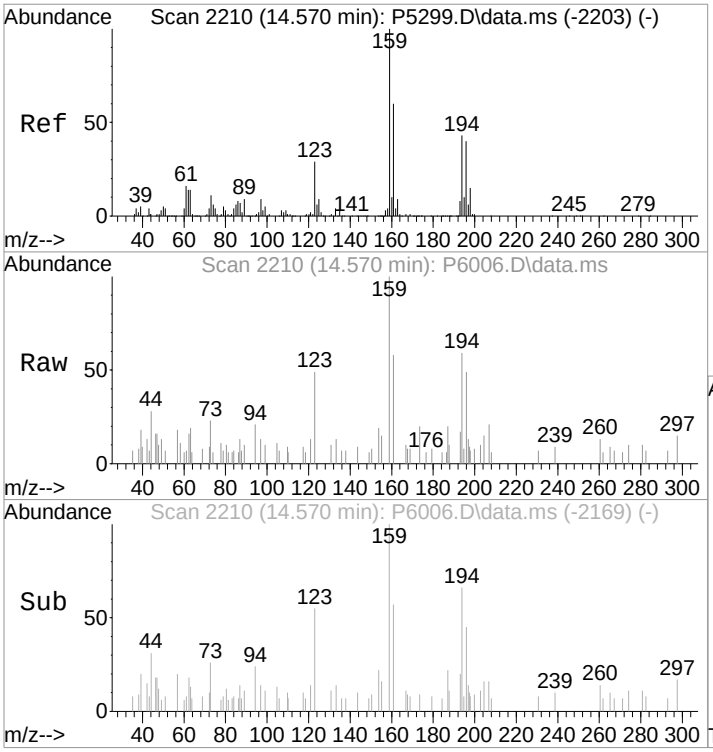


#112
Trielution Dichlorotoluene
Concen: 0.23 ppb
RT: 13.089 min Scan# 1967
Delta R.T. 0.012 min
Lab File: P6006.D
Acq: 27 Oct 2016 2:20 pm

Tgt Ion:125 Resp: 2746

Ion	Ratio	Lower	Upper
125	100		
160	36.4	33.6	50.4
89	58.7	25.8	38.8#

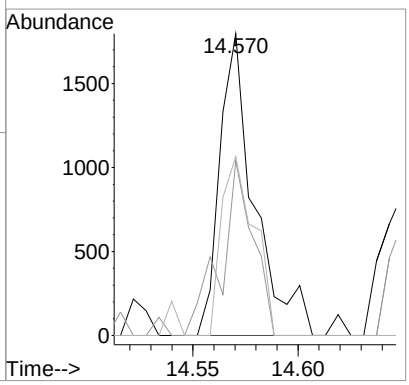


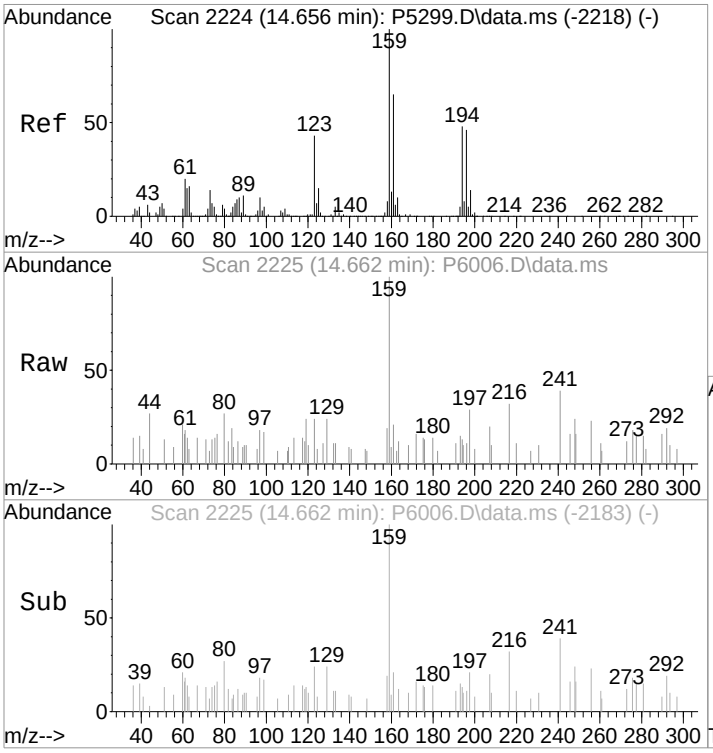


#119
2,4,5-Trichlorotolene
Concen: 0.36 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6006.D
Acq: 27 Oct 2016 2:20 pm

Tgt Ion:159 Resp: 2061

Ion	Ratio	Lower	Upper
159	100		
161	57.8	48.1	72.1
194	66.8	34.5	51.7#

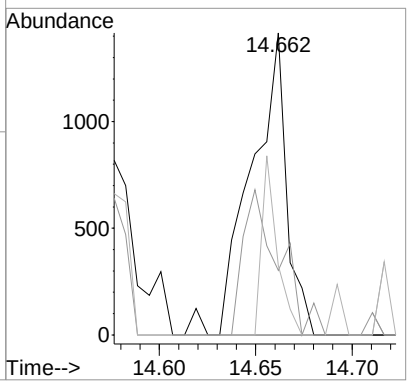




#120
2,3,6-Trichlorotoluene
Concen: 0.34 ppb
RT: 14.662 min Scan# 2225
Delta R.T. 0.006 min
Lab File: P6006.D
Acq: 27 Oct 2016 2:20 pm

Tgt Ion:159 Resp: 1815

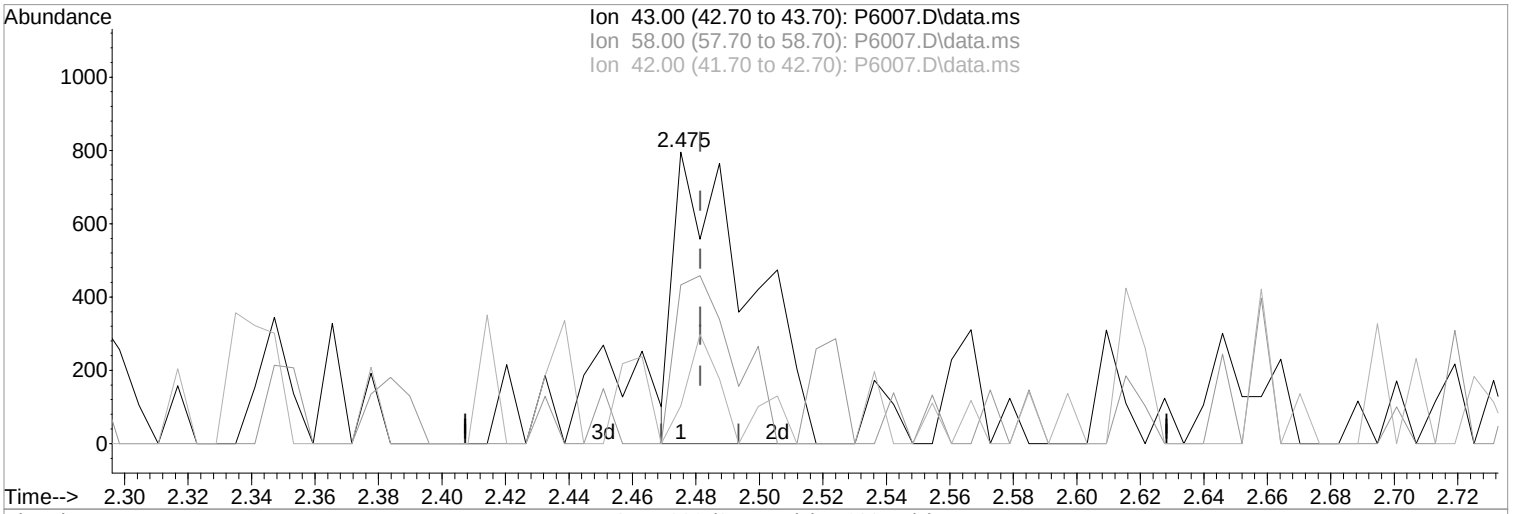
Ion	Ratio	Lower	Upper
159	100		
161	21.4	52.3	78.5#
194	23.0	38.6	57.8#

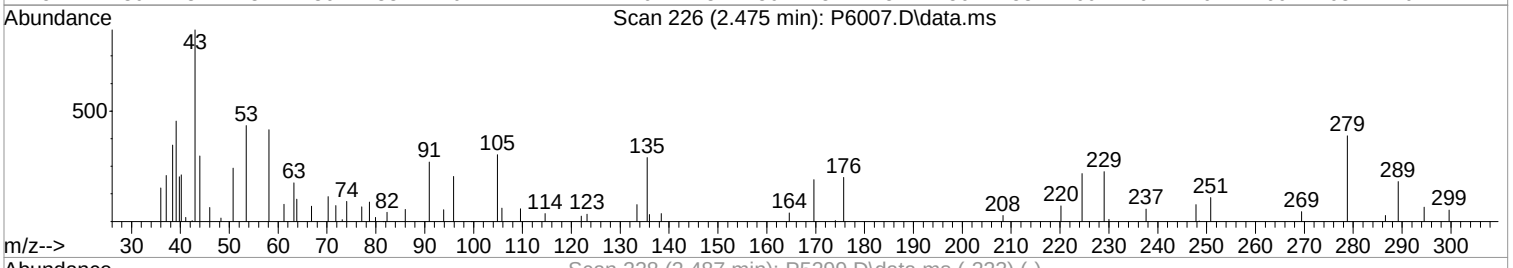


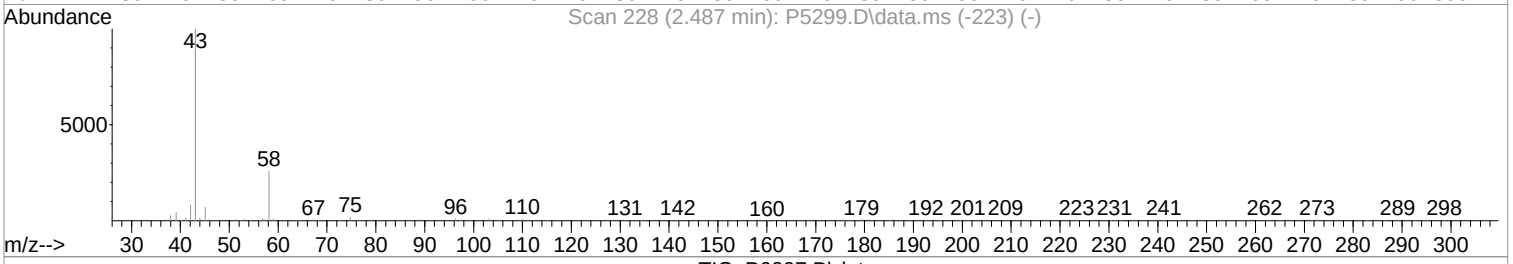
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:14:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6007.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 1.01 ppb m

response 1308

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	54.47#
42.00	8.70	12.96
0.00	0.00	0.00

Manual Integration:

After

Split Peak

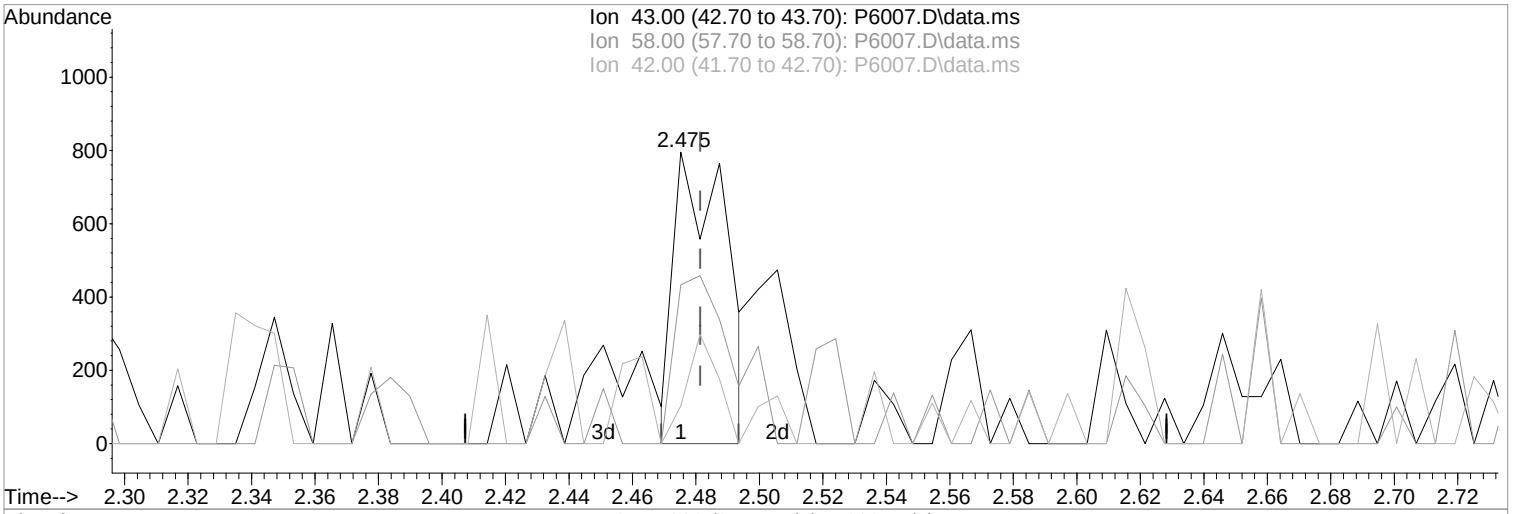
10/27/16

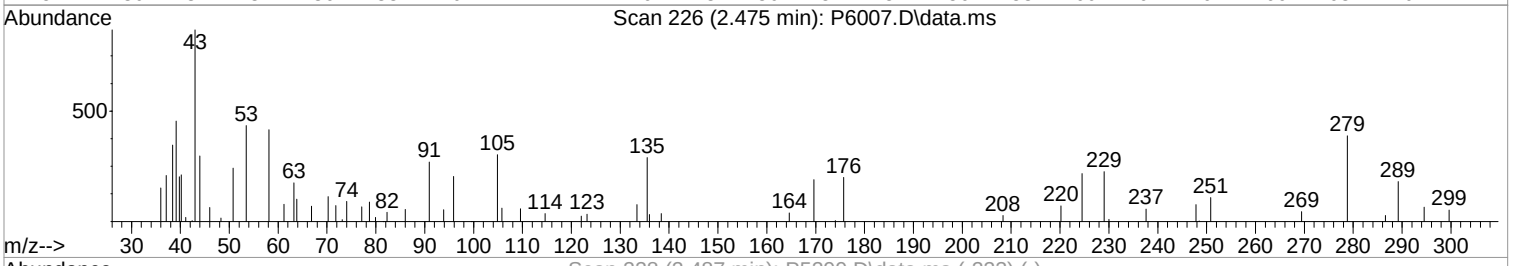
1st 10/27/16
2nd 10/31/16

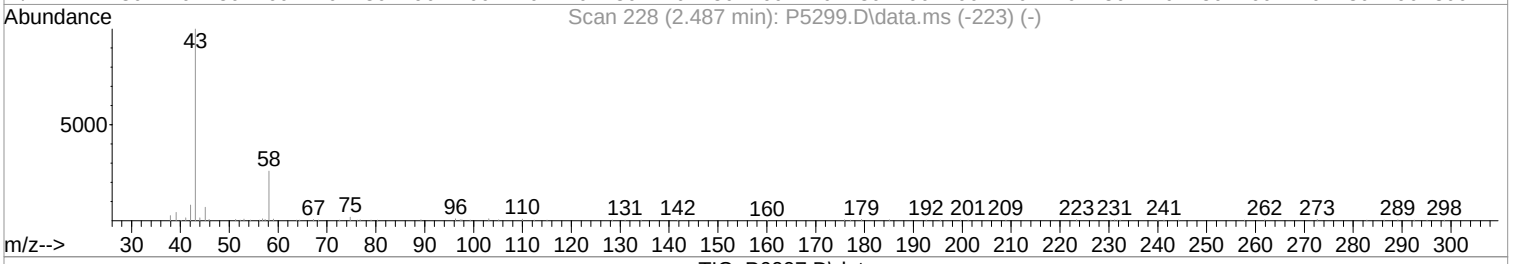
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:14:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6007.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 0.70 ppb

response 906

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	54.47#
42.00	8.70	12.96
0.00	0.00	0.00

Manual Integration:

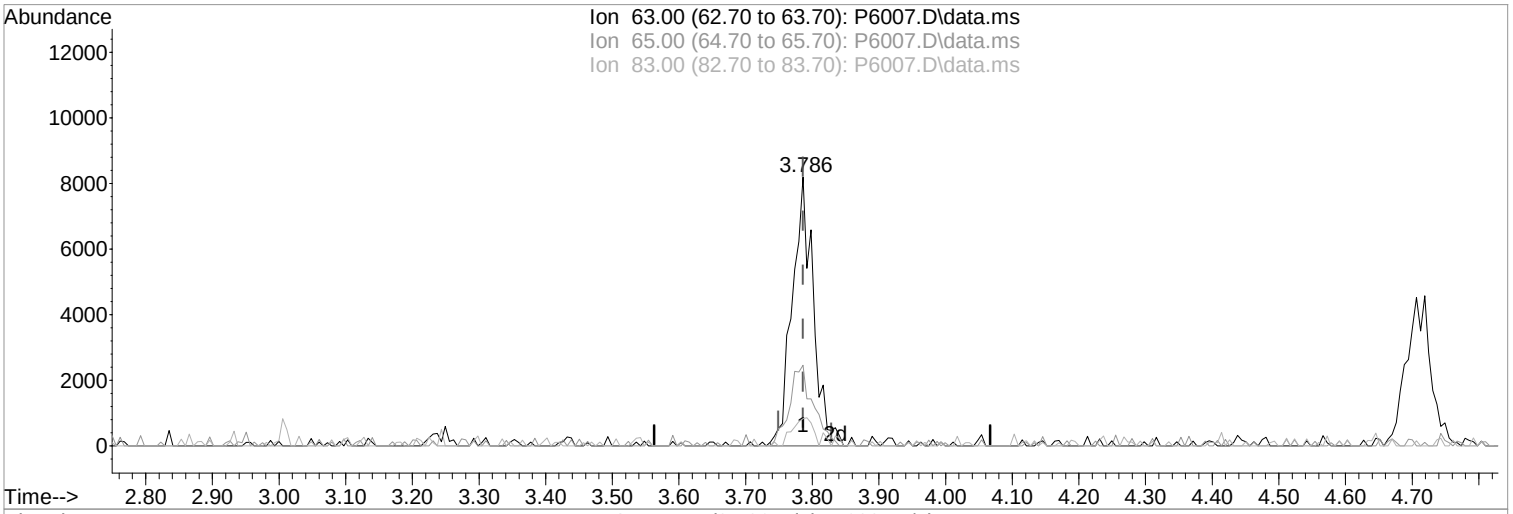
Before

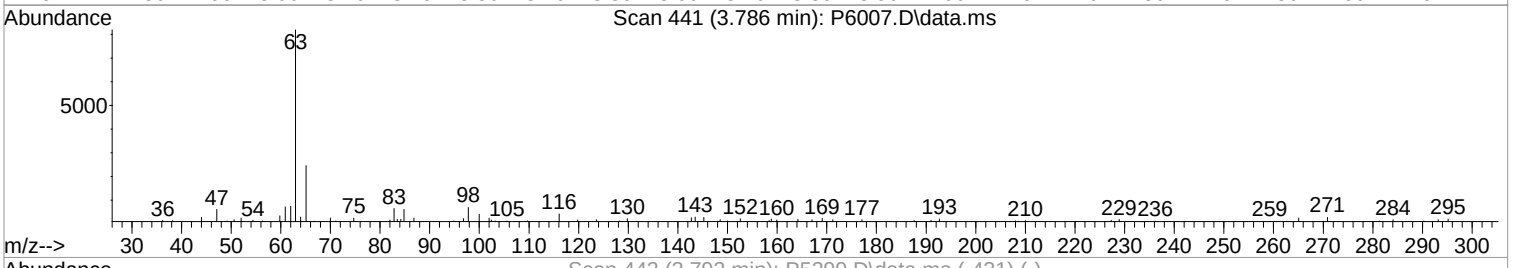
10/27/16

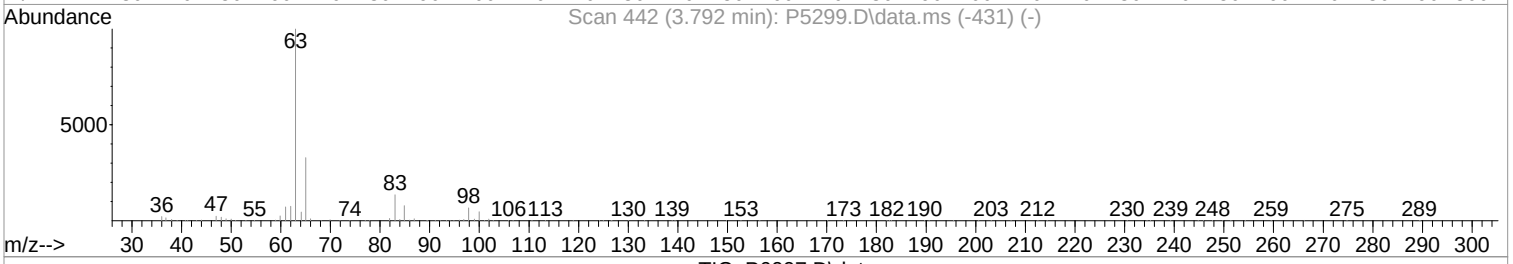
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:14:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6007.D\data.ms

(28) 1,1-Diclethane (P)

3.786min (-0.000) 1.75 ppb m

response 17991

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	30.07
83.00	13.50	7.88
0.00	0.00	0.00

Manual Integration:

After

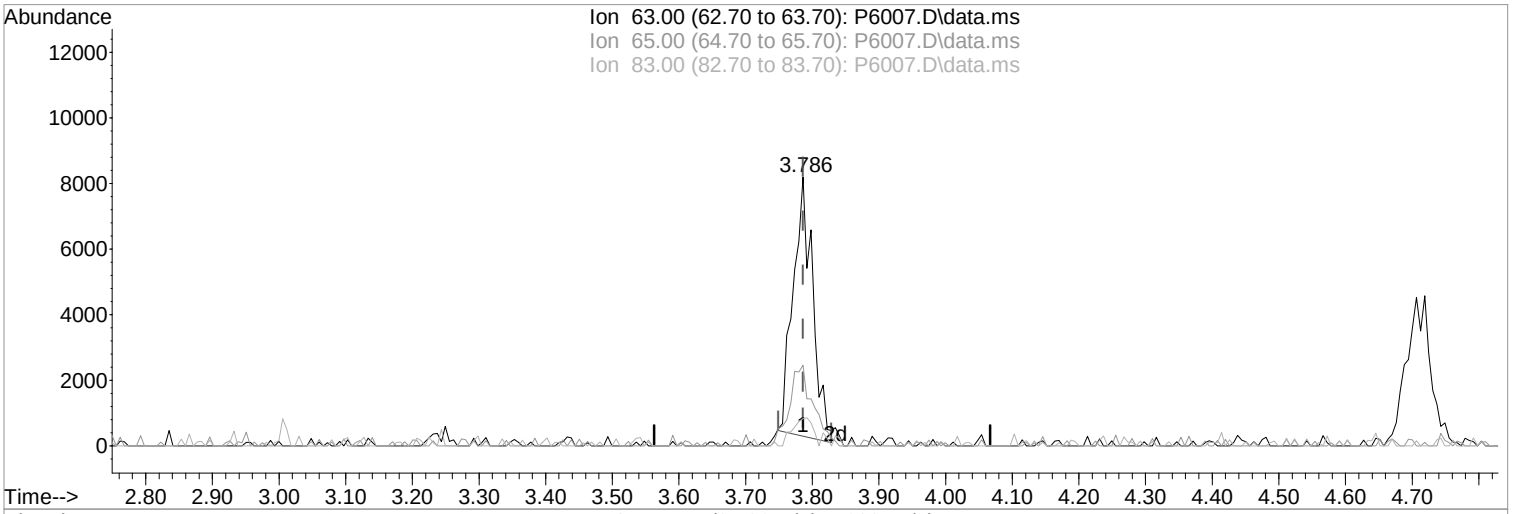
Poor integration.

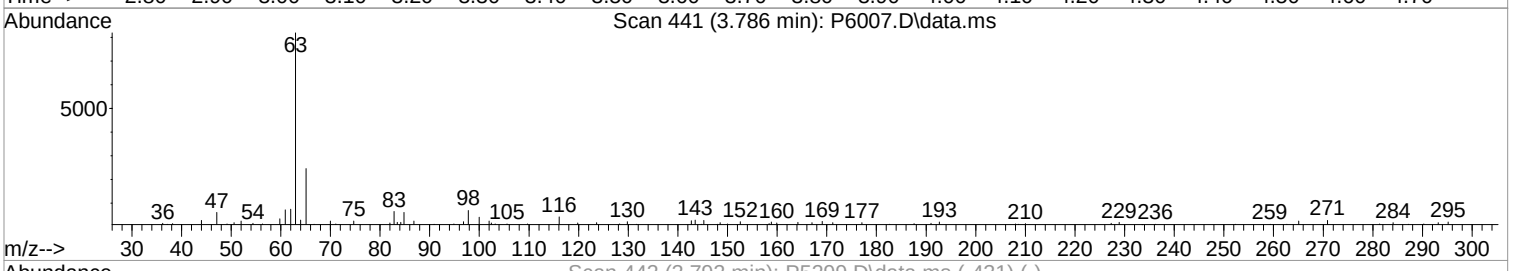
10/27/16

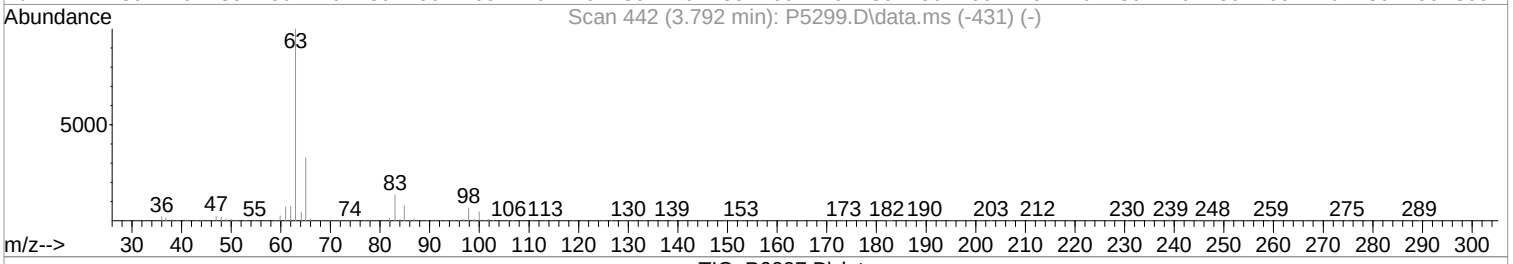
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:14:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6007.D\data.ms

(28) 1,1-Diclethane (P)

3.786min (-0.000) 1.55 ppb

response 15999

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	30.07
83.00	13.50	10.21
0.00	0.00	0.00

Manual Integration:

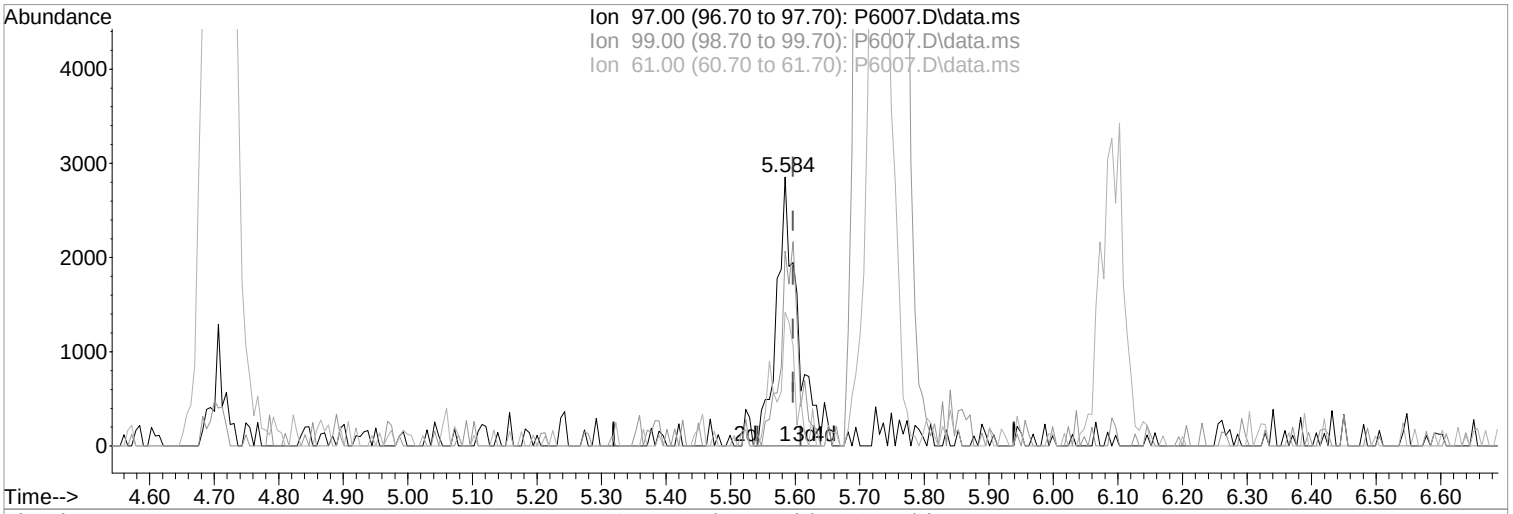
Before

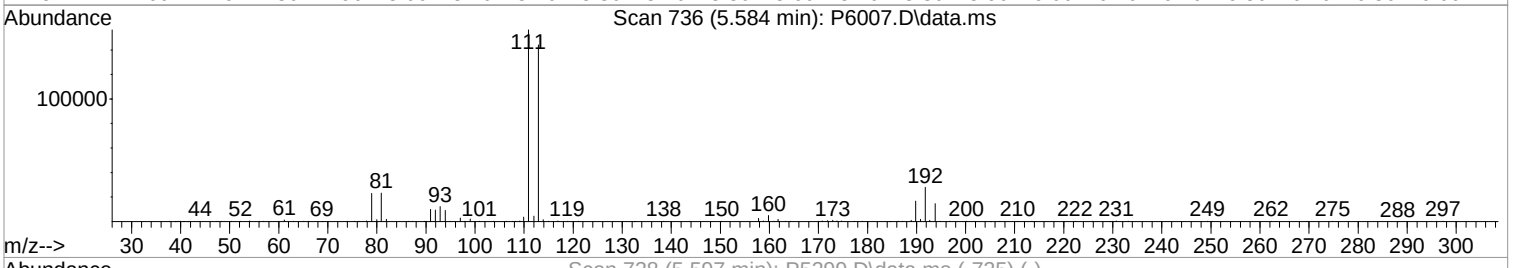
10/27/16

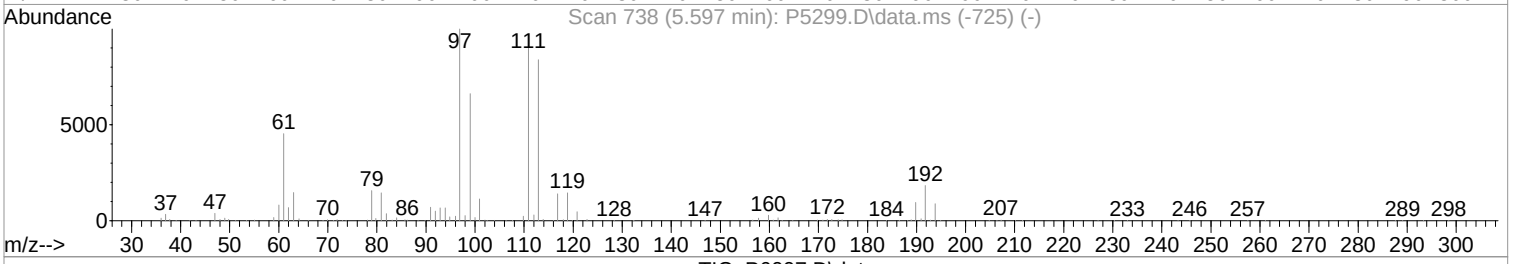
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:14:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6007.D\data.ms

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

5.584min (-0.012) 0.68 ppb m

response 6254

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	72.33
61.00	45.30	49.67
0.00	0.00	0.00

Manual Integration:

After

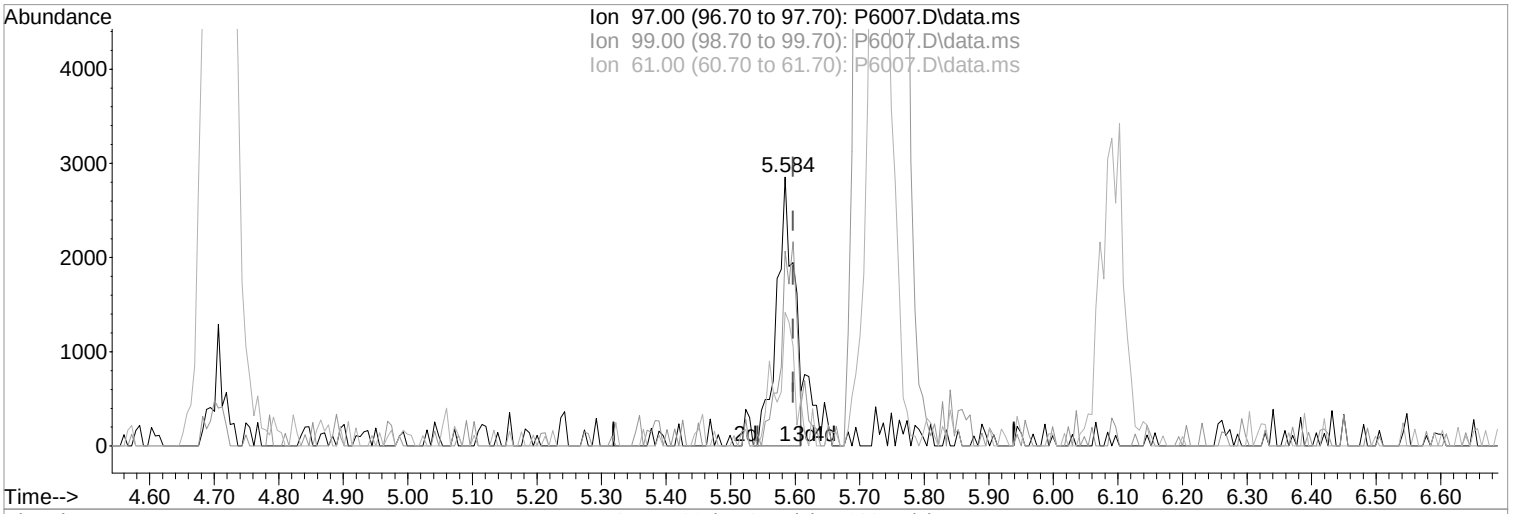
Split Peak

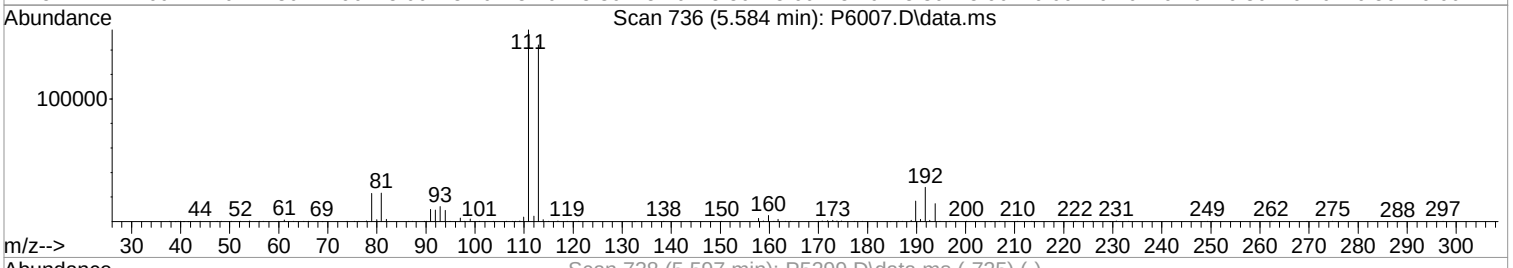
10/27/16

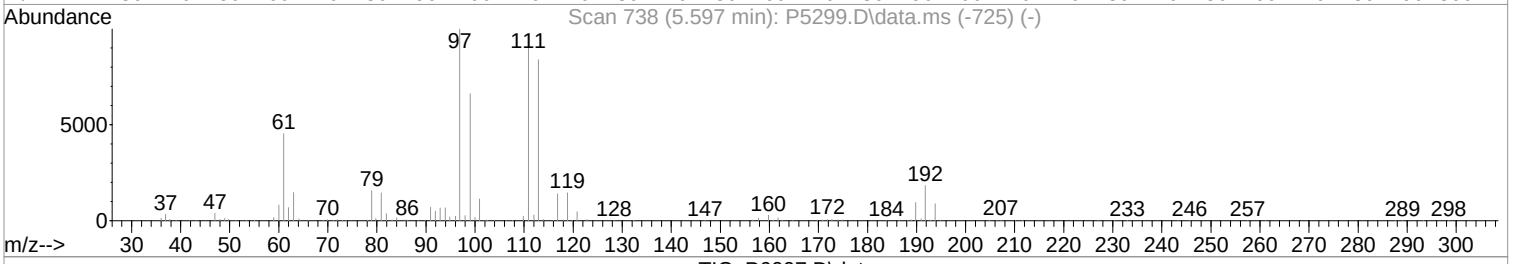
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:14:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6007.D\data.ms

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

5.584min (-0.012) 0.58 ppb

response 5352

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	72.33
61.00	45.30	49.67
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:16:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

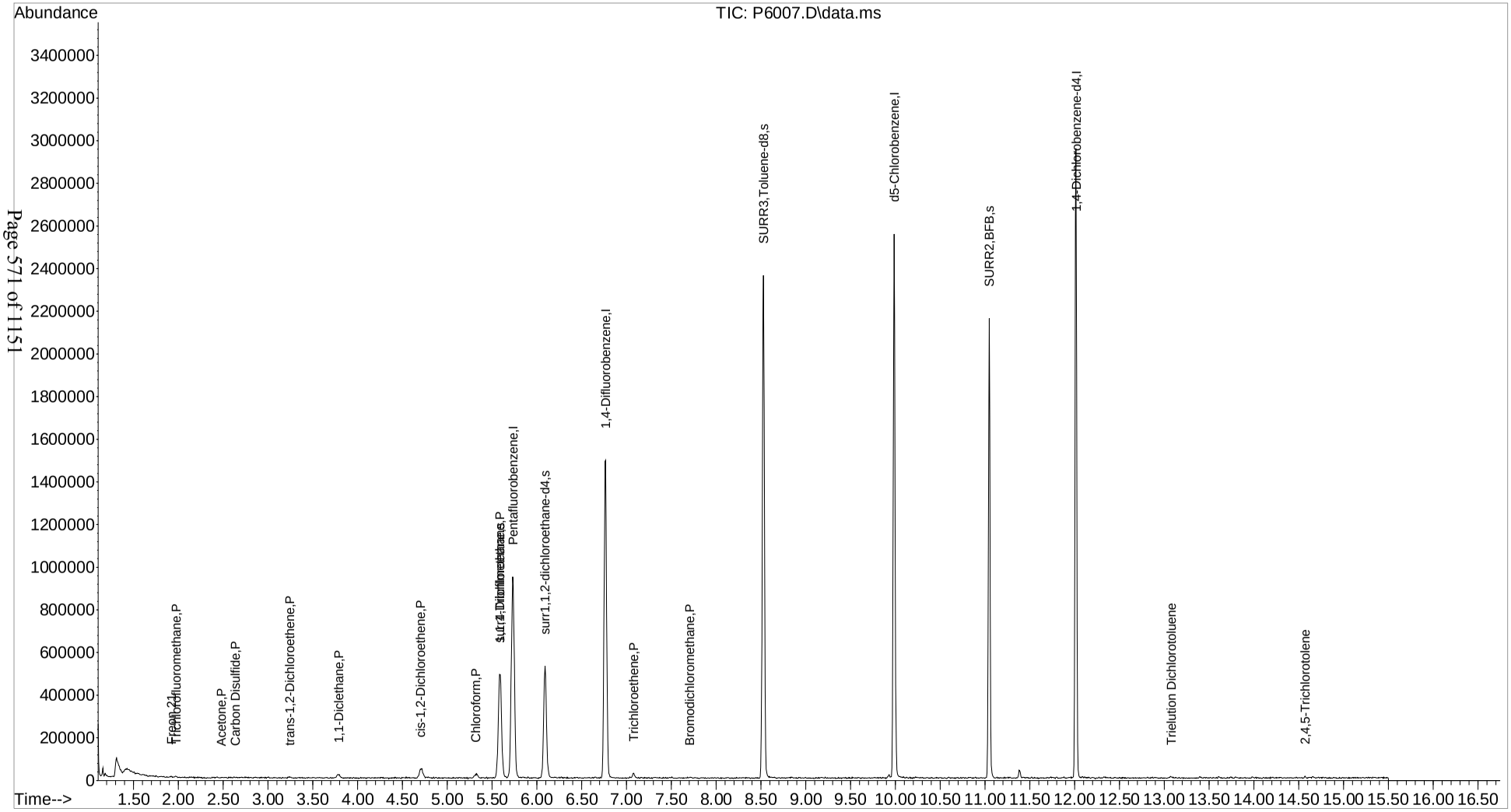
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	793709	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1277212	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1180946	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	601182	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	374215	54.90	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.80%				
48) surr1,1,2-dichloroetha...	6.090	65	403318	52.09	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.18%				
65) SURR3,Toluene-d8	8.529	98	1446519	51.79	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.58%				
70) SURR2,BFB	11.047	95	572709	52.55	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.10%				
Target Compounds							Qvalue
7) Freon 21	1.920	67	1897	0.23	ppb		67
8) Trichlorofluoromethane	1.975	101	1794	0.25	ppb	#	44
15) Acetone	2.475	43	1308m	1.01	ppb		
18) Carbon Disulfide	2.634	76	4662	0.27	ppb		89
26) trans-1,2-Dichloroethene	3.243	96	1962	0.32	ppb	#	53
28) 1,1-Diclethane	3.786	63	17991m	1.75	ppb		
34) cis-1,2-Dichloroethene	4.700	96	29888	4.72	ppb	#	69
40) Chloroform	5.316	83	17506	1.75	ppb		81
41) 1,1,1-Trichloroethane	5.584	97	6254m	0.68	ppb		
54) Trichloroethene	7.078	130	8127	1.21	ppb		94
60) Bromodichloromethane	7.706	83	2427	0.30	ppb		97
112) Trielution Dichlorotol...	13.077	125	2467	0.21	ppb	#	87
119) 2,4,5-Trichlorotolene	14.570	159	1495	0.26	ppb	#	65

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

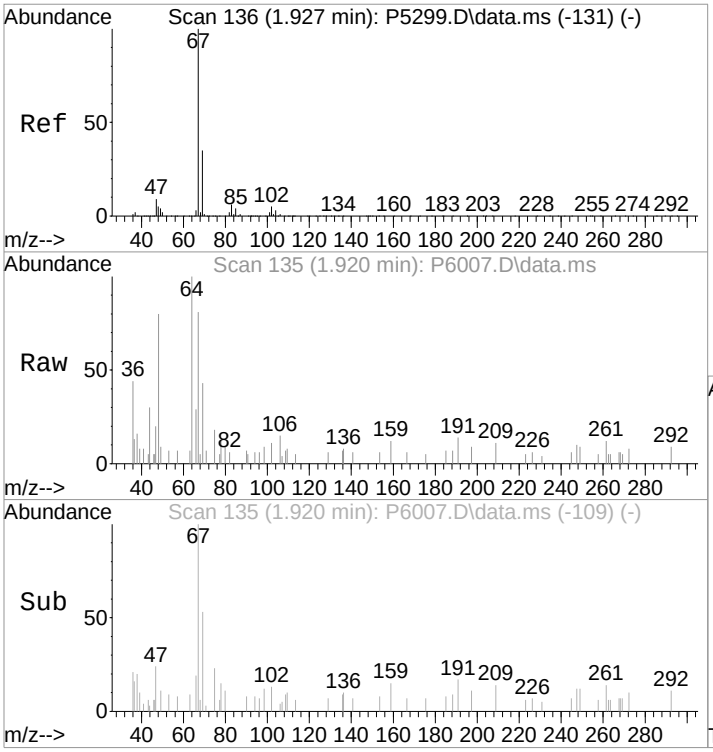
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6007.D
Acq On : 27 Oct 2016 2:51 pm
Operator : K.Ruest
Sample : R1611185-023|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 15:16:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



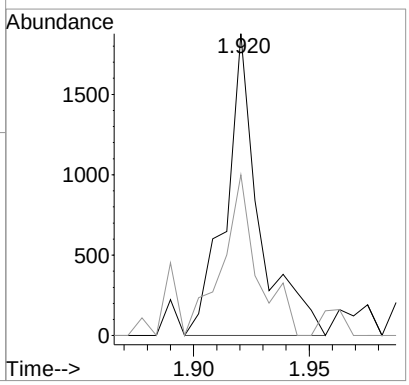
1st 10/27/16
2nd 10/31/16

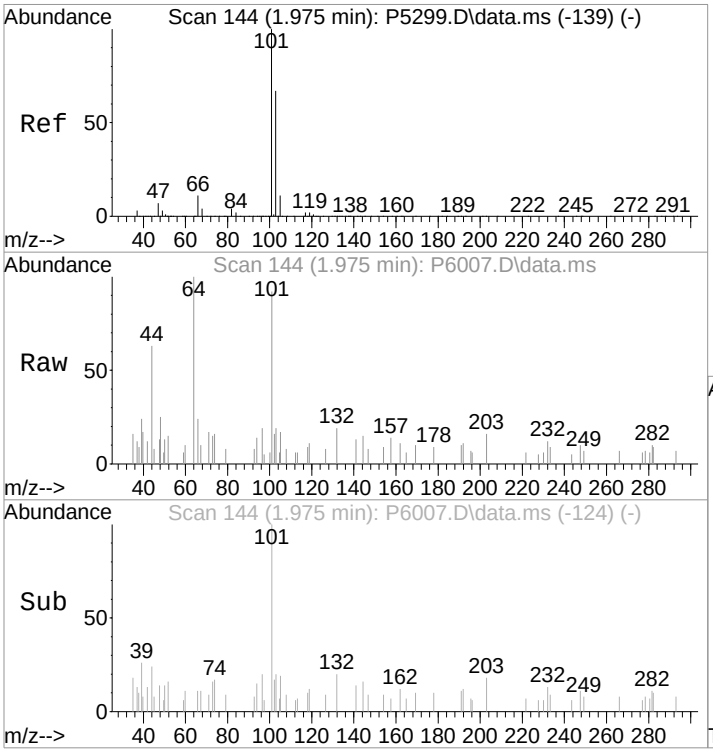


#7
Freon 21
Concen: 0.23 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 67 Resp: 1897

Ion	Ratio	Lower	Upper
67	100		
69	53.2	14.4	54.4

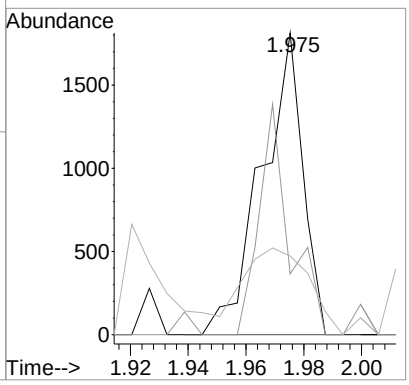


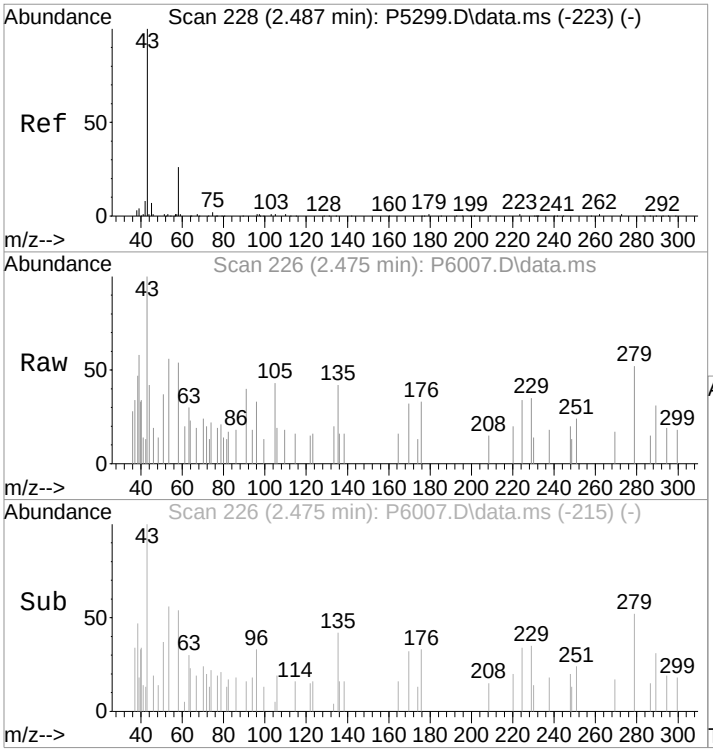


#8
Trichlorofluoromethane
Concen: 0.25 ppb
RT: 1.975 min Scan# 144
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion:101 Resp: 1794

Ion	Ratio	Lower	Upper
101	100		
103	20.2	47.3	87.3#
66	26.1	0.0	31.5

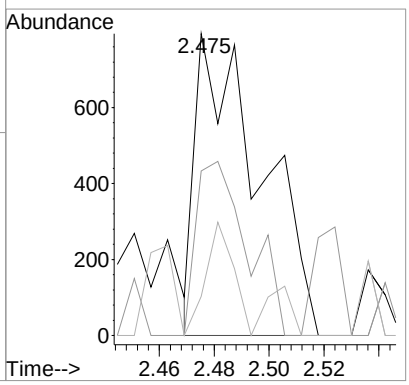


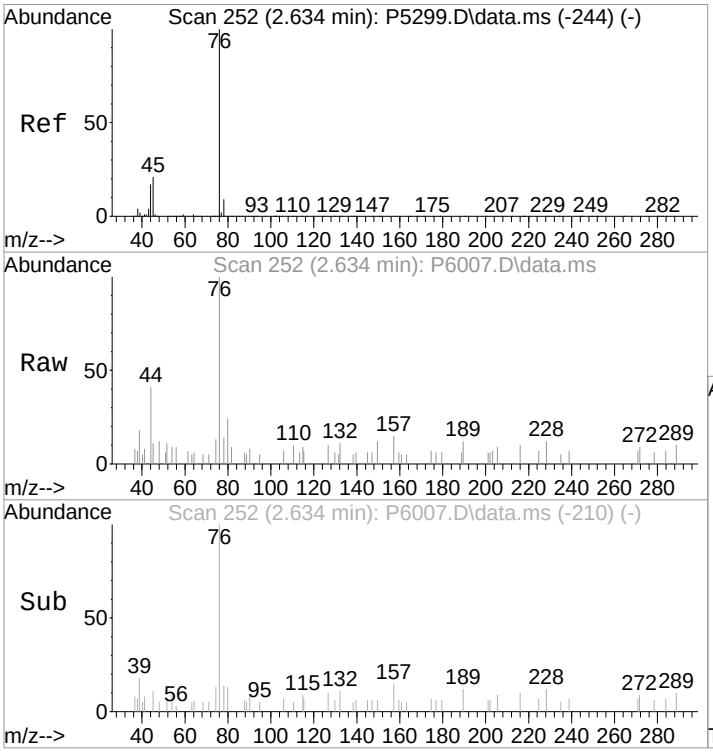


#15
Acetone
Concen: 1.01 ppb m
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 43 Resp: 1308

Ion	Ratio	Lower	Upper
43	100		
58	54.5	5.3	45.3#
42	13.0	0.0	28.7

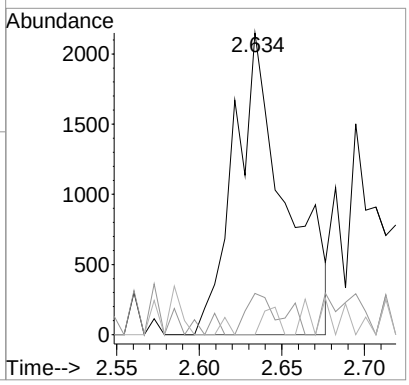


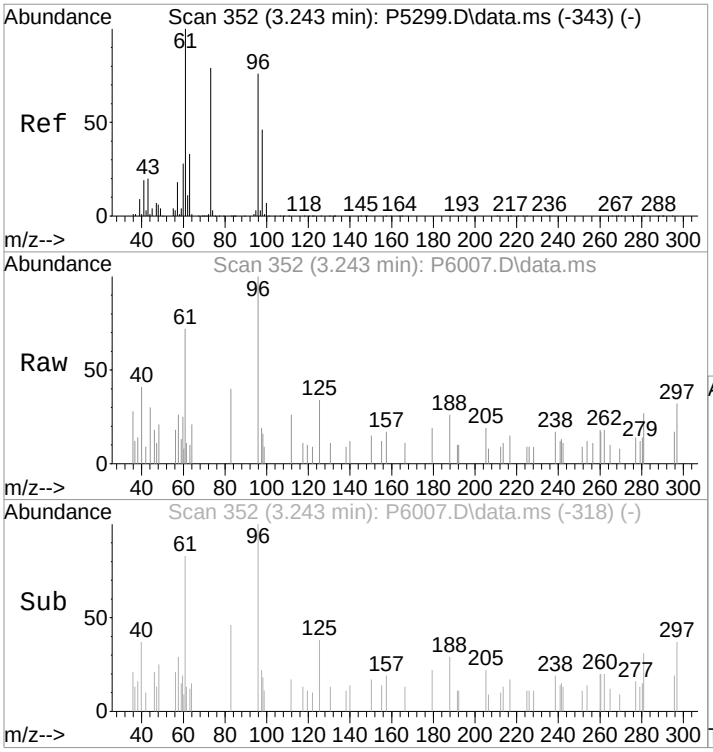


#18
Carbon Disulfide
Concen: 0.27 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 76 Resp: 4662

Ion	Ratio	Lower	Upper
76	100		
78	13.7	0.0	29.3
77	0.0	0.0	22.5

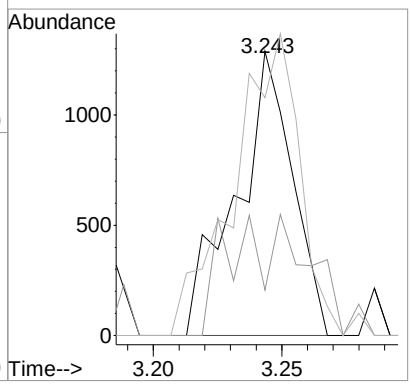


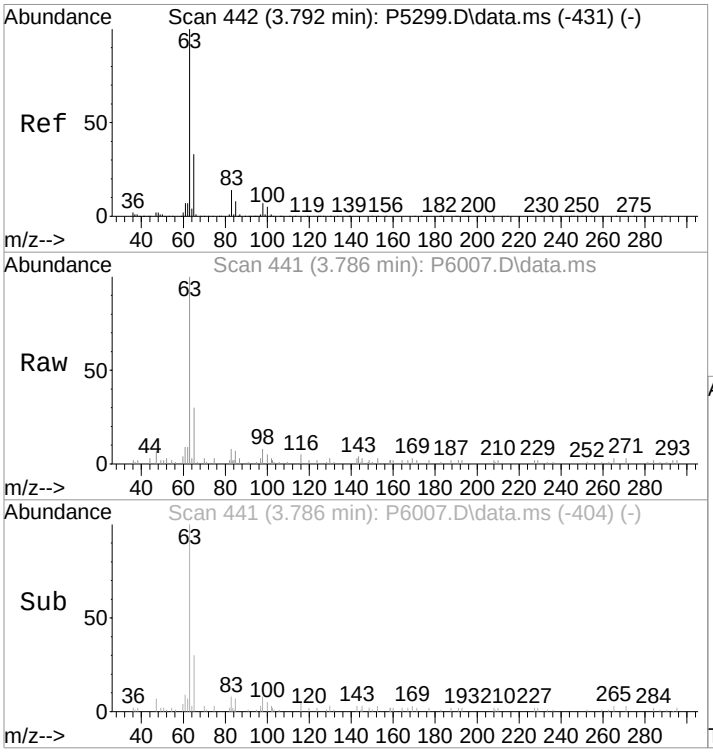


#26
trans-1,2-Dichloroethene
Concen: 0.32 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 96 Resp: 1962

Ion	Ratio	Lower	Upper
96	100		
98	16.1	41.0	81.0#
61	83.7	112.4	152.4#

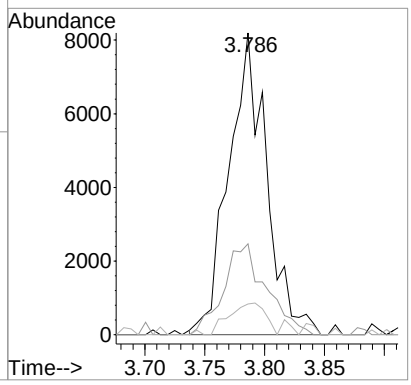


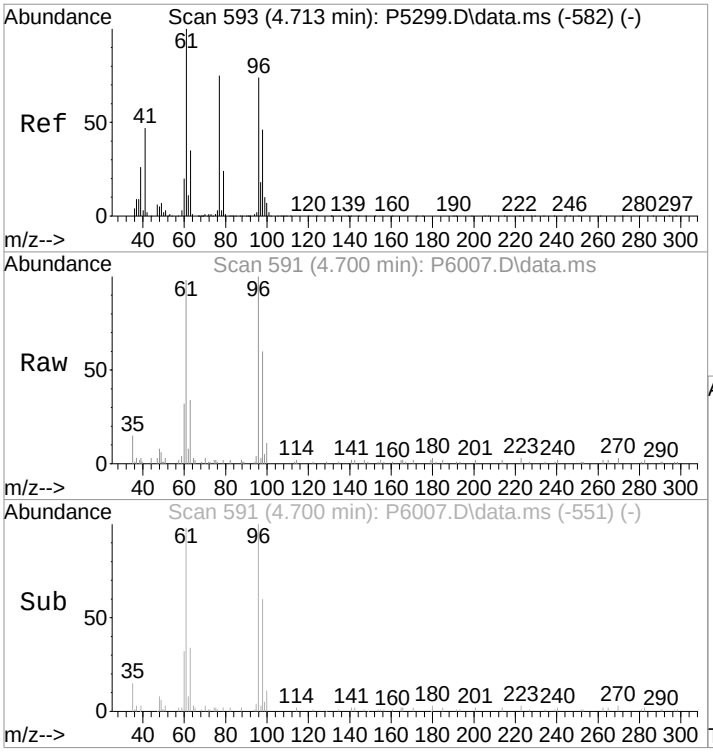


#28
1,1-Diclethane
Concen: 1.75 ppb m
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 63 Resp: 17991

Ion	Ratio	Lower	Upper
63	100		
65	30.1	12.9	52.9
83	7.9	0.0	33.5

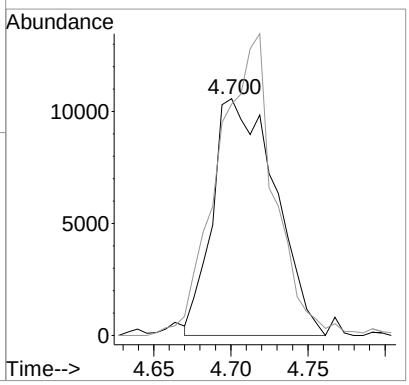


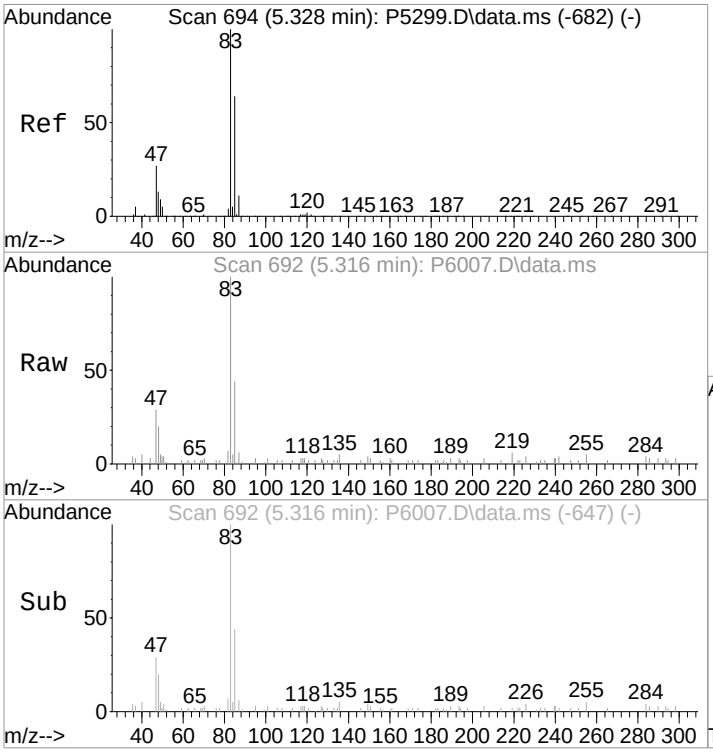


#34
cis-1,2-Dichloroethene
Concen: 4.72 ppb
RT: 4.700 min Scan# 591
Delta R.T. -0.012 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 96 Resp: 29888

Ion	Ratio	Lower	Upper
96	100		
61	97.7	114.6	154.6#

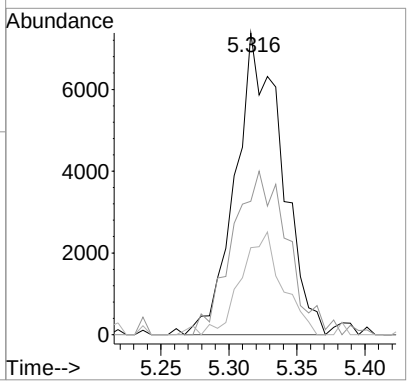


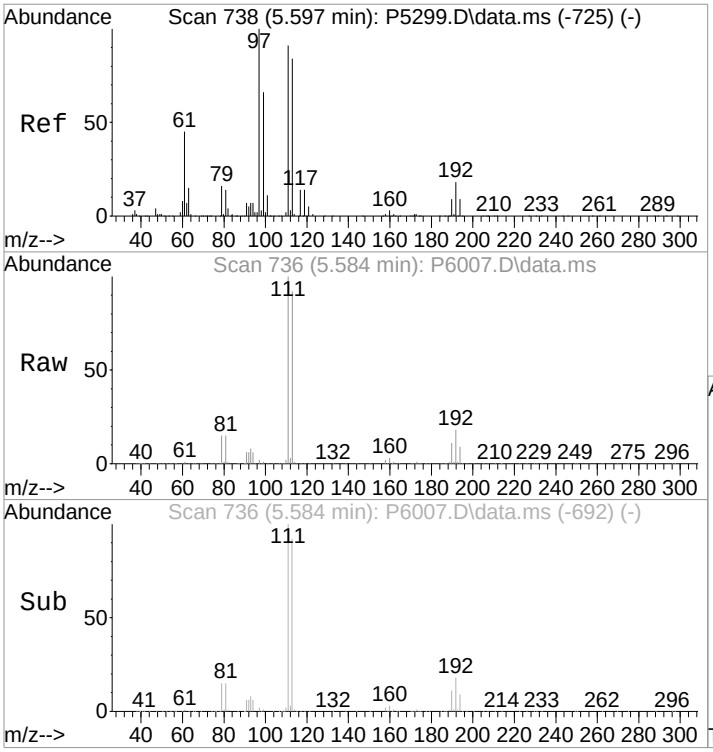


#40
Chloroform
Concen: 1.75 ppb
RT: 5.316 min Scan# 692
Delta R.T. -0.012 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 83 Resp: 17506

Ion	Ratio	Lower	Upper
83	100		
85	44.2	44.1	84.1
47	28.8	7.4	47.4

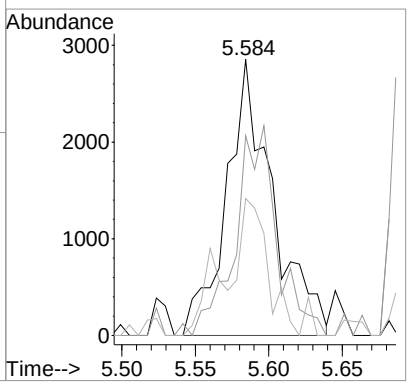


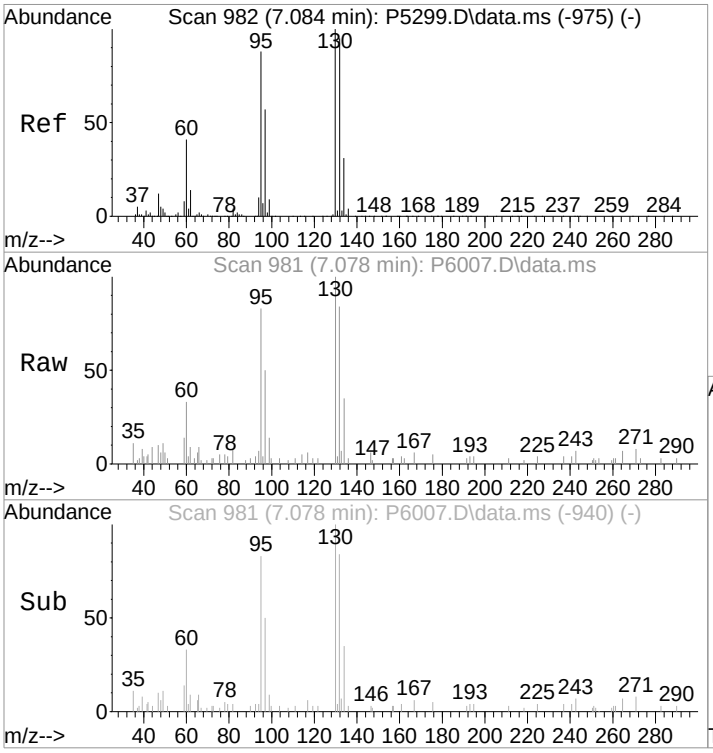


#41
1,1,1-Trichloroethane
Concen: 0.68 ppb m
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 97 Resp: 6254

Ion	Ratio	Lower	Upper
97	100		
99	72.3	46.2	86.2
61	49.7	25.3	65.3

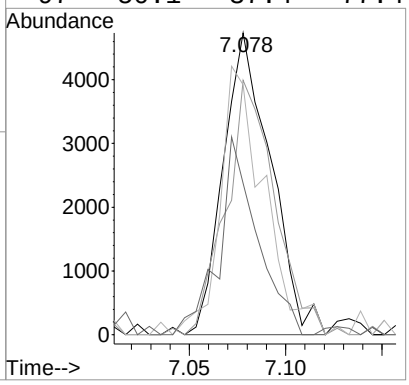


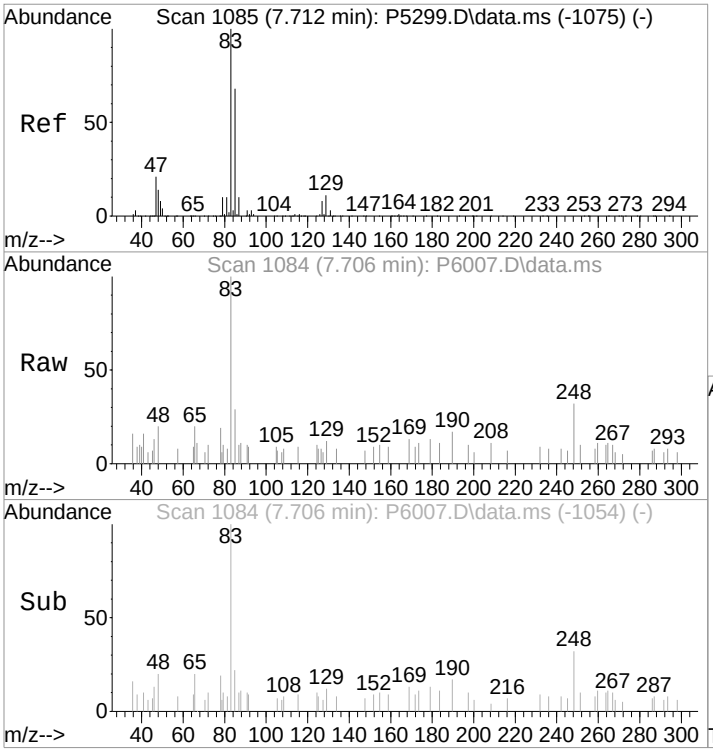


#54
Trichloroethene
Concen: 1.21 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion:130 Resp: 8127

Ion	Ratio	Lower	Upper
130	100		
132	90.8	75.2	115.2
95	82.8	68.1	108.1
97	50.1	37.4	77.4

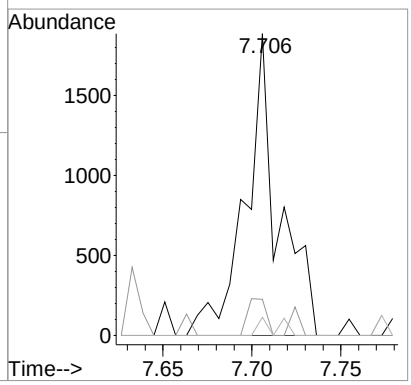


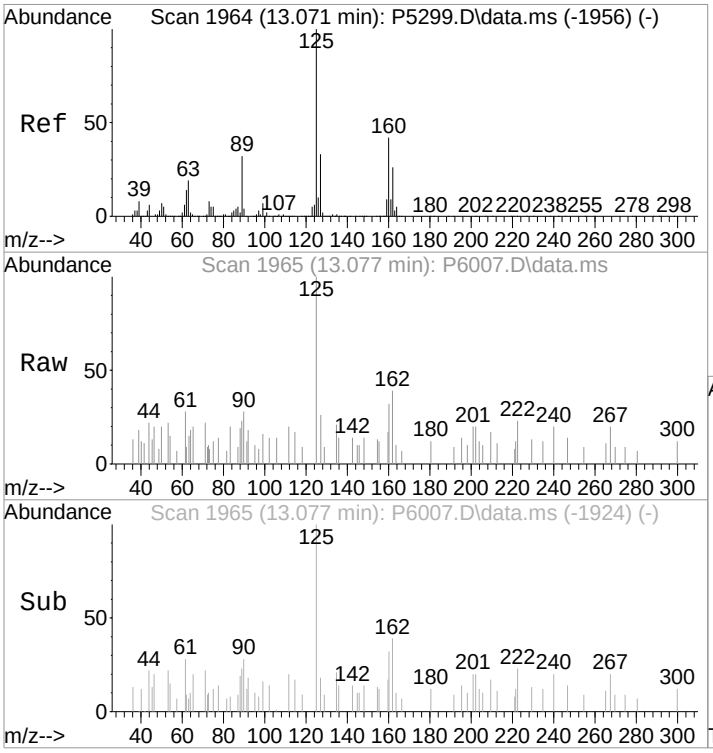


#60
Bromodichloromethane
Concen: 0.30 ppb
RT: 7.706 min Scan# 1084
Delta R.T. -0.006 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion: 83 Resp: 2427

Ion	Ratio	Lower	Upper
83	100		
129	12.0	0.0	31.2
127	6.1	0.0	28.0

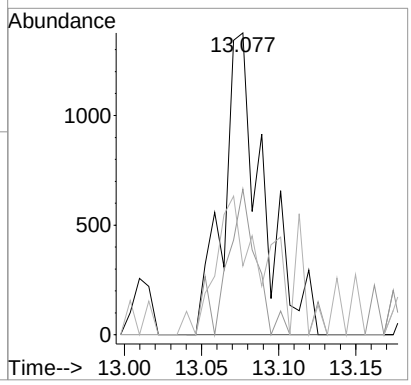


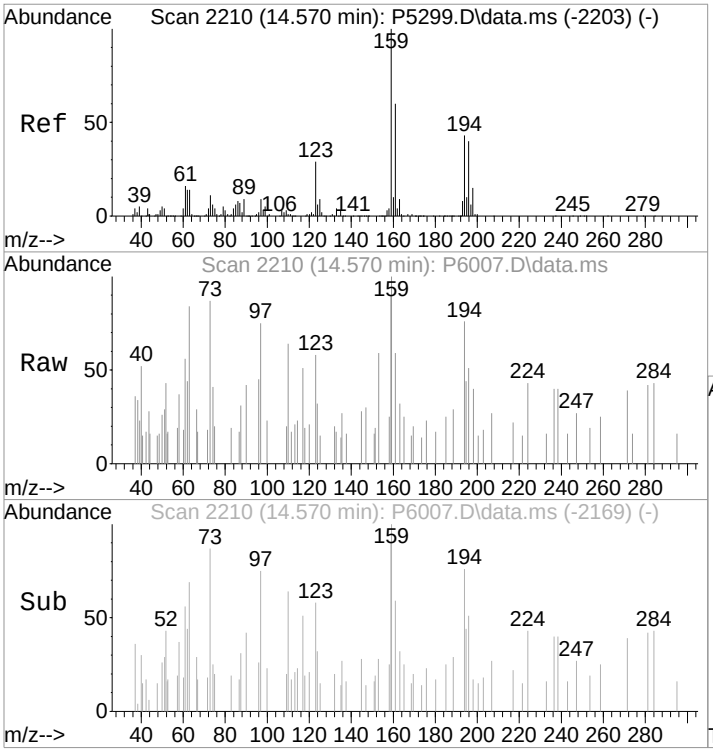


#112
Trielution Dichlorotoluene
Concen: 0.21 ppb
RT: 13.077 min Scan# 1965
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion:125 Resp: 2467

Ion	Ratio	Lower	Upper
125	100		
160	48.3	33.6	50.4
89	22.9	25.8	38.8#

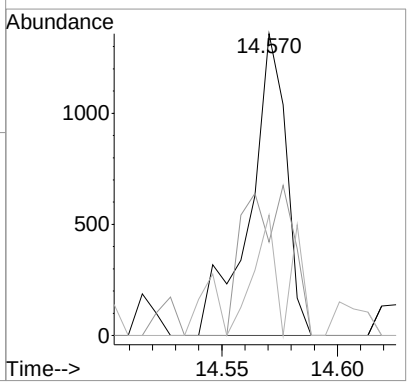




#119
2,4,5-Trichlorotolene
Concen: 0.26 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6007.D
Acq: 27 Oct 2016 2:51 pm

Tgt Ion:159 Resp: 1495

Ion	Ratio	Lower	Upper
159	100		
161	31.0	48.1	72.1#
194	63.0	34.5	51.7#

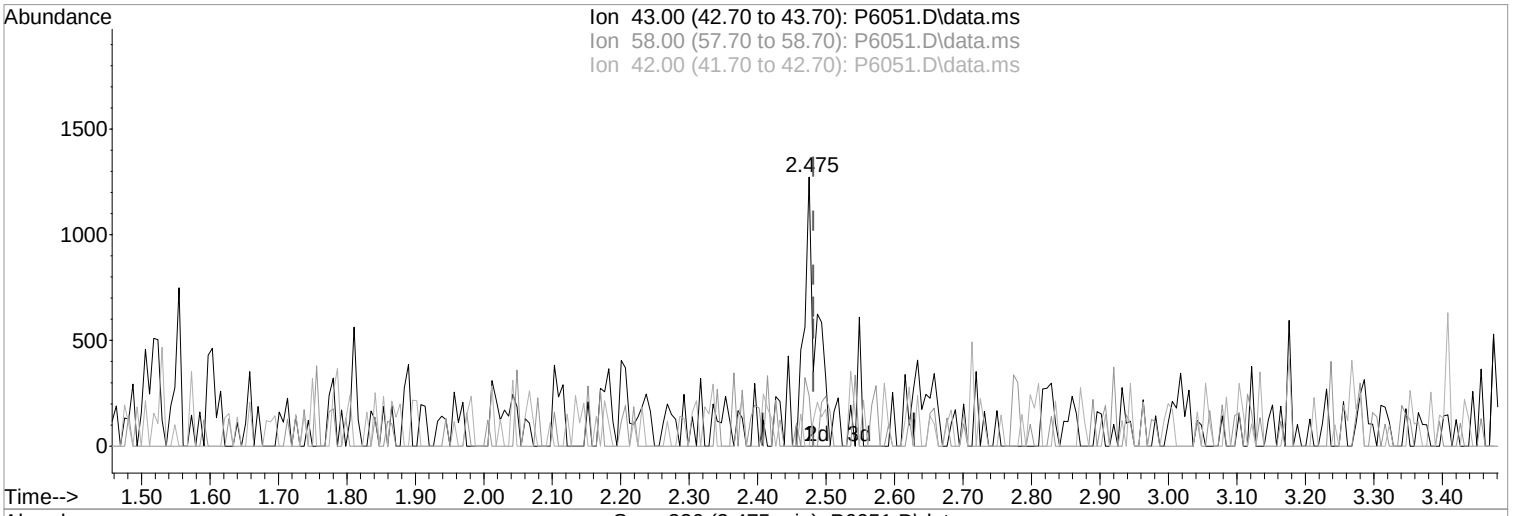


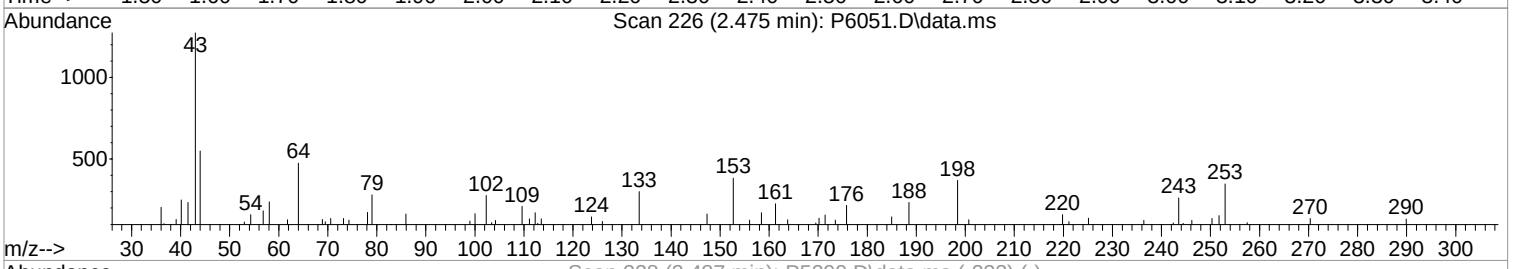
1st 10/31/16
2nd 10/31/16

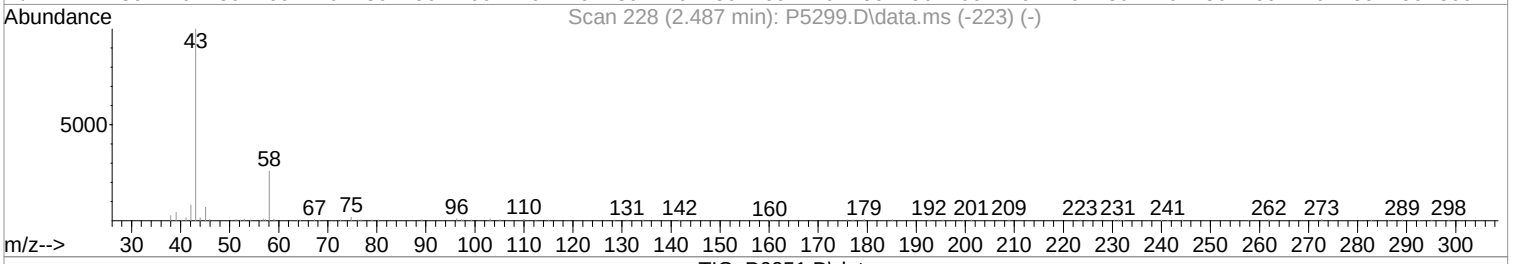
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6051.D
Acq On : 28 Oct 2016 1:44 pm
Operator : K.Ruest
Sample : R16~~11885~~11185-024|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 14:07:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6051.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 1.19 ppb m

response 1526

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	18.77
42.00	8.70	0.00
0.00	0.00	0.00

Manual Integration:

After

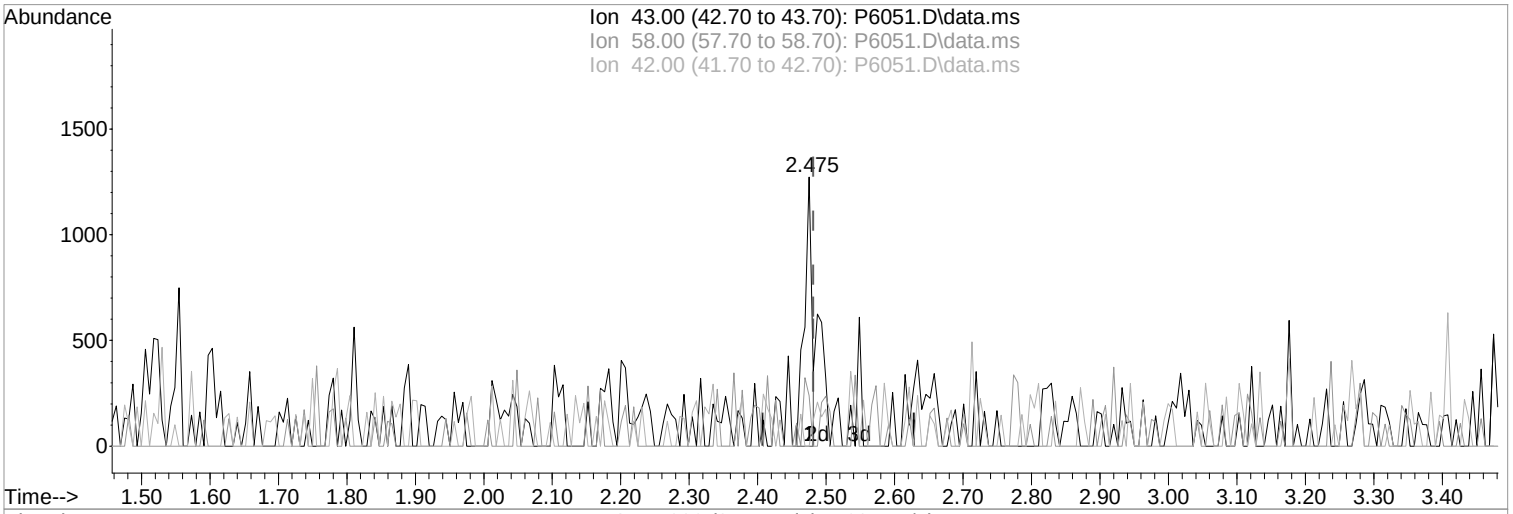
Split Peak

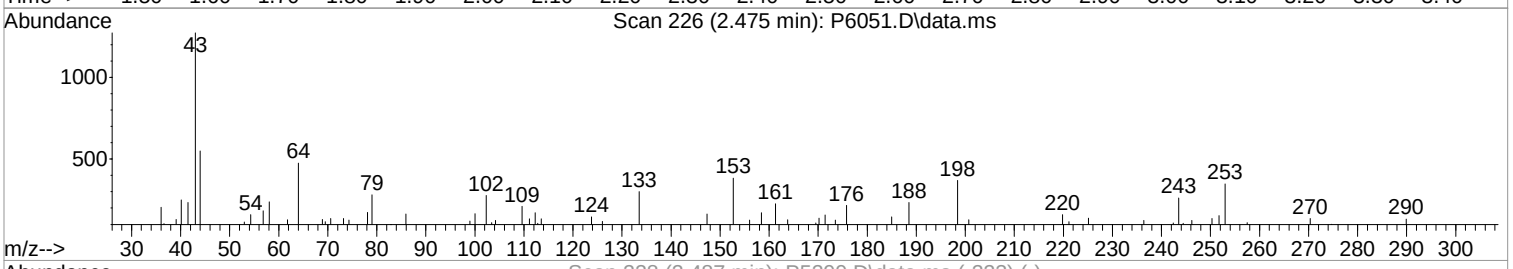
10/31/16

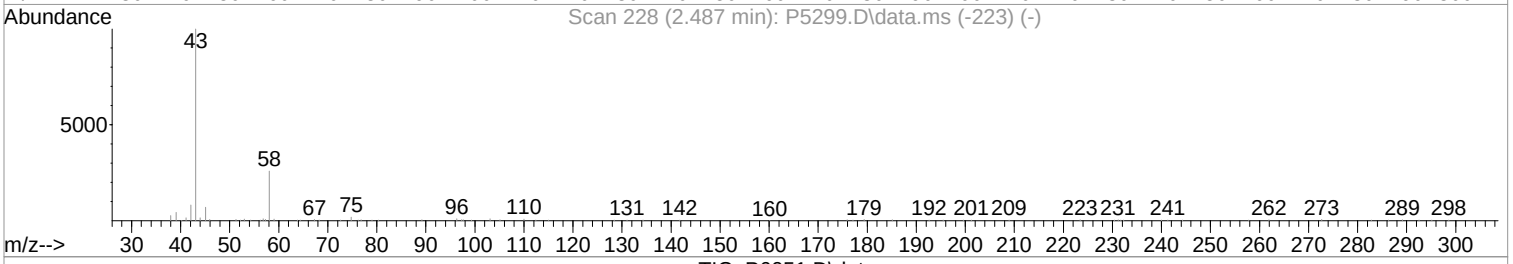
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6051.D
Acq On : 28 Oct 2016 1:44 pm
Operator : K.Ruest 11185
Sample : R16~~11885-~~024|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 14:07:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6051.D\data.ms

(15) Acetone (P)

2.475min (-0.006) 0.75 ppb

response 966

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	18.77
42.00	8.70	0.00
0.00	0.00	0.00

Manual Integration:

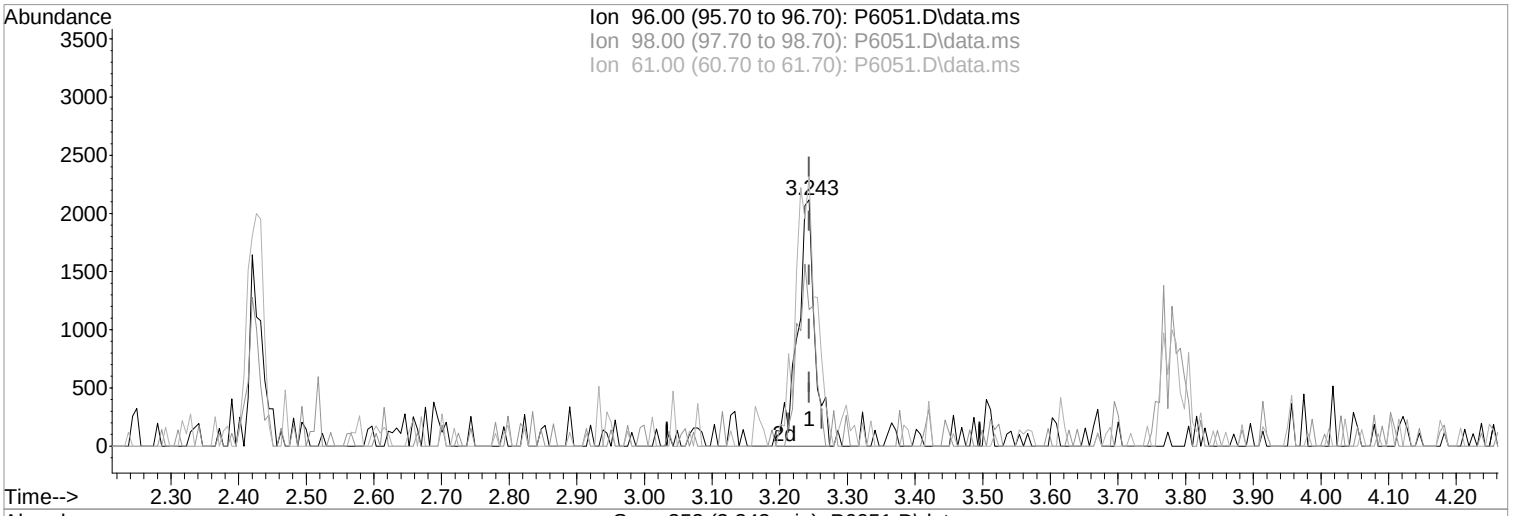
Before

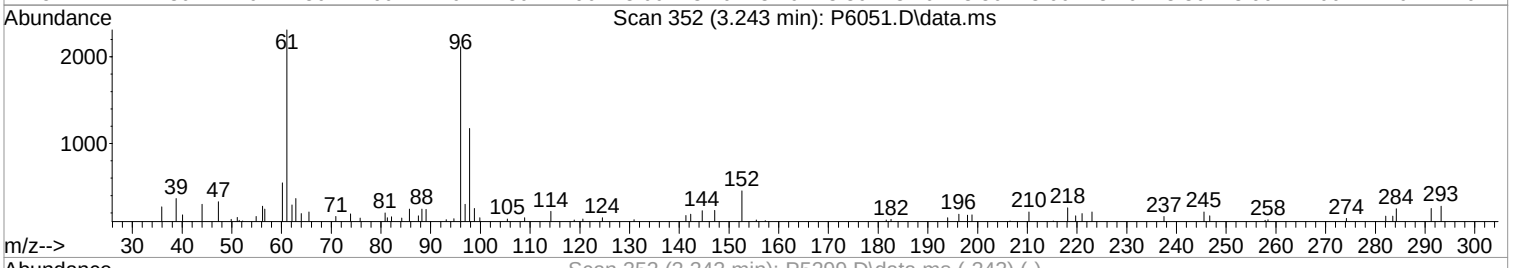
10/31/16

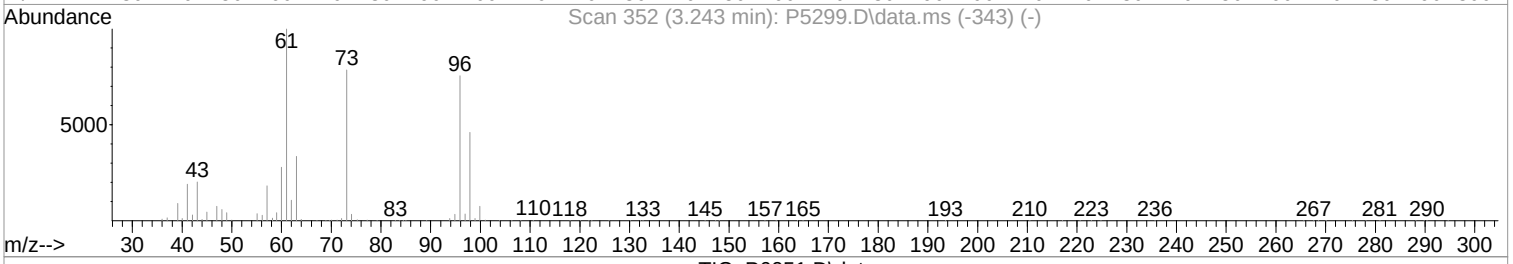
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6051.D
Acq On : 28 Oct 2016 1:44 pm
Operator : K.Ruest 11185
Sample : R1611885-024|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 14:07:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6051.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.59 ppb m

response 3655

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	55.41
61.00	132.40	109.26#
0.00	0.00	0.00

Manual Integration:

After

Split Peak

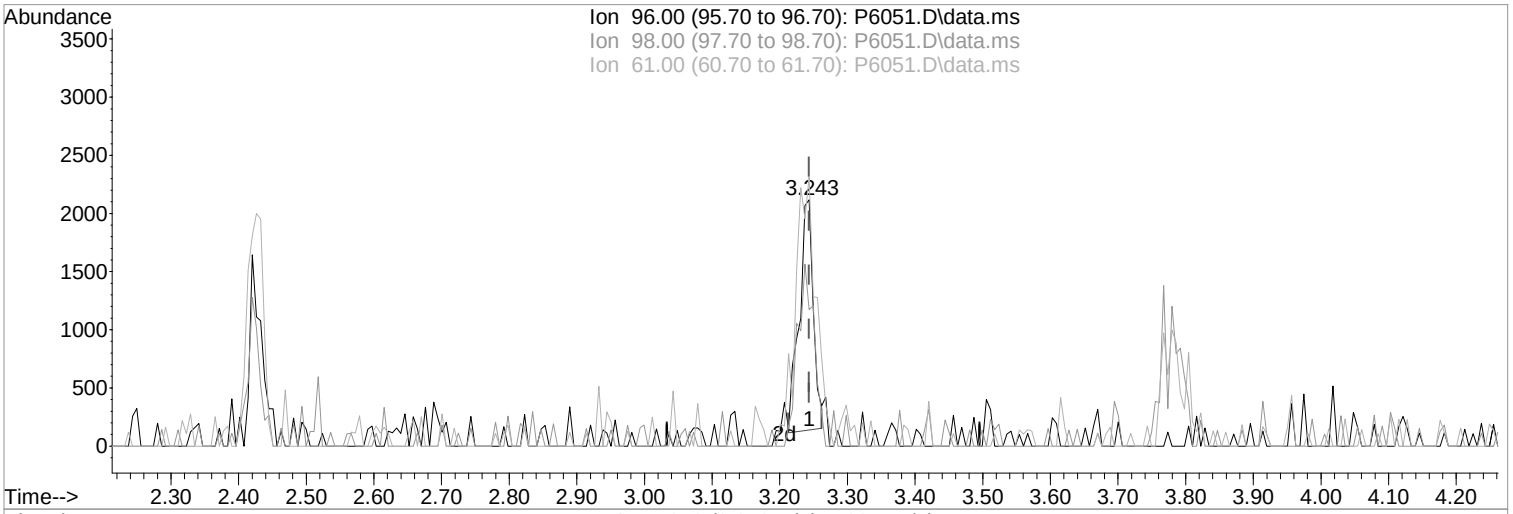
10/31/16

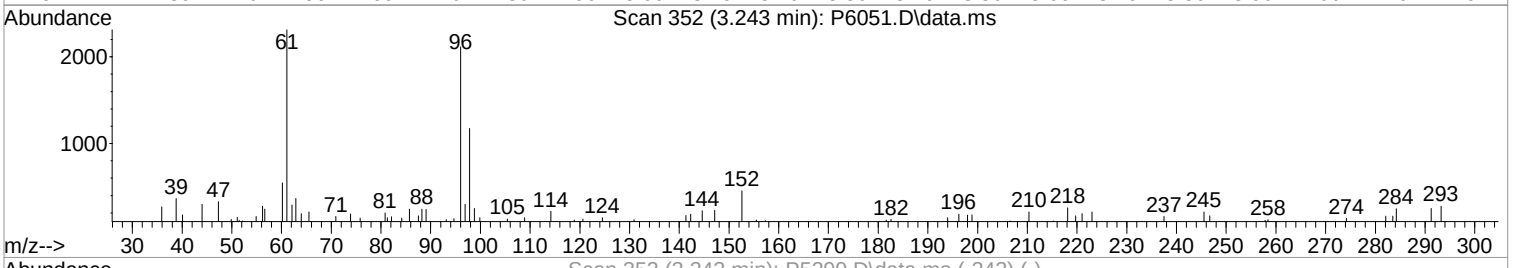
1st 10/31/16
2nd 10/31/16

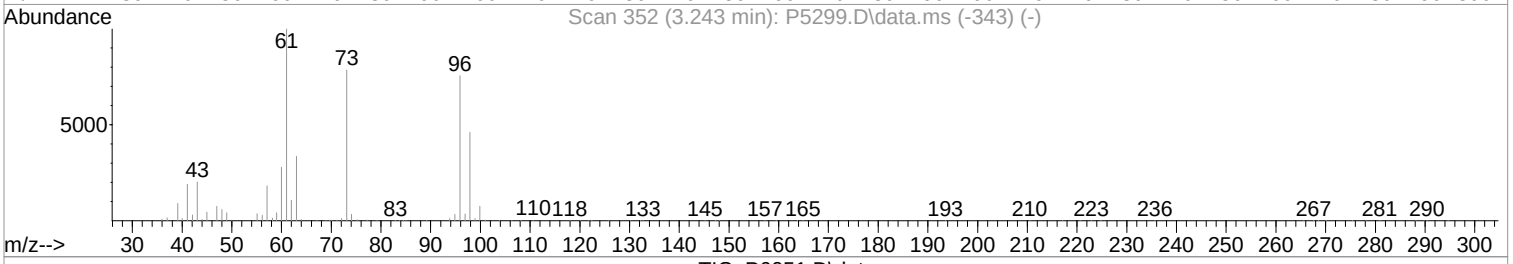
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6051.D
Acq On : 28 Oct 2016 1:44 pm
Operator : K.Ruest 11185
Sample : R1611885-024|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 14:07:25 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6051.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.47 ppb

response 2869

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	55.41
61.00	132.40	109.26#
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6051.D
Acq On : 28 Oct 2016 1:44 pm
Operator : K.Ruest
Sample : R16~~11885~~11185-024|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 31 10:40:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

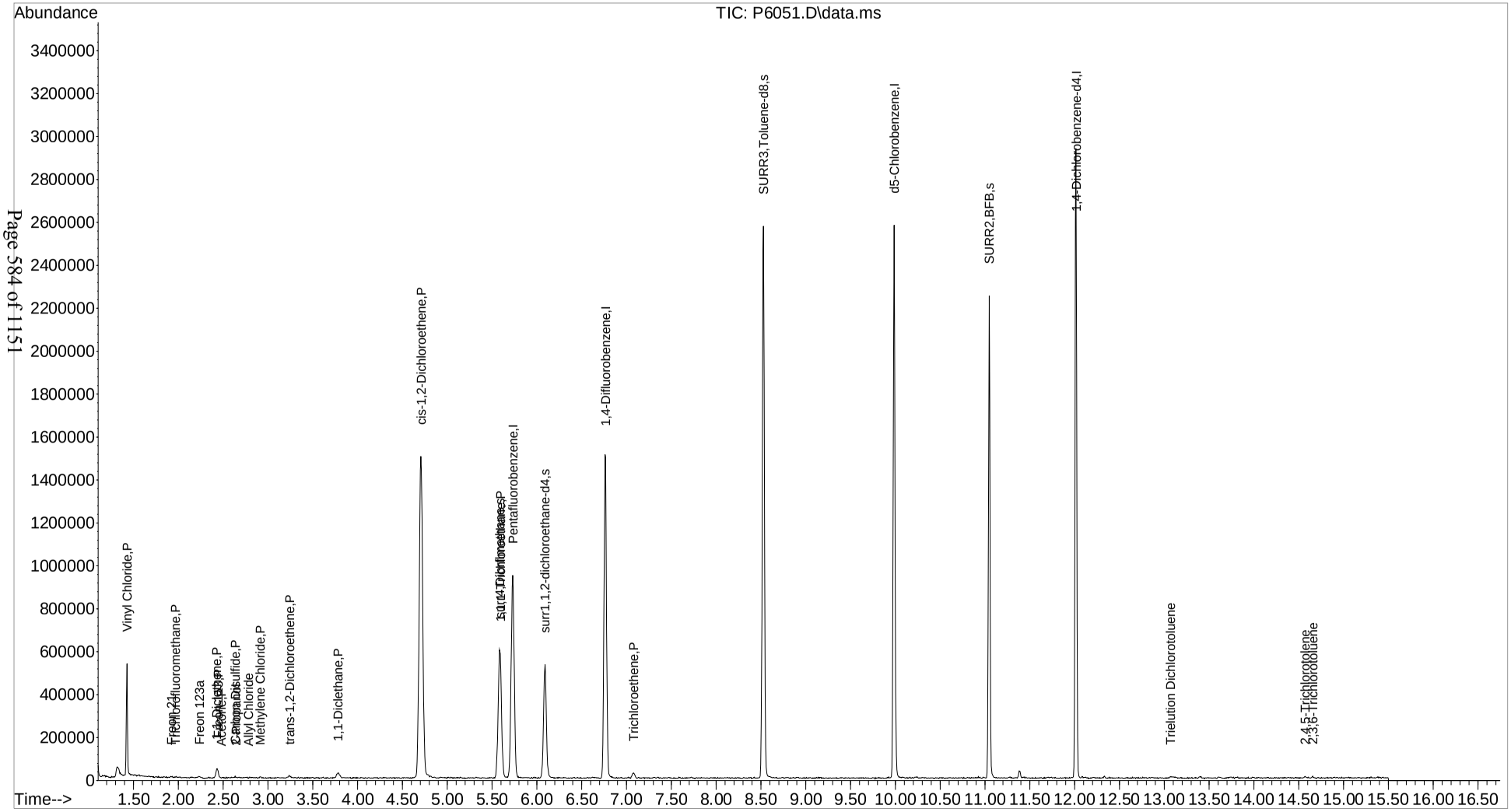
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	786623	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1273693	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1156086	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	592326	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	370712	54.53	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.06%				
48) surr1,1,2-dichloroetha...	6.090	65	406509	52.64	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.28%				
65) SURR3,Toluene-d8	8.529	98	1567772	56.28	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.56%				
70) SURR2,BFB	11.047	95	575918	52.99	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.98%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	281978	45.31	ppb		94
7) Freon 21	1.920	67	4527	0.55	ppb		82
8) Trichlorofluoromethane	1.969	101	1669	0.23	ppb	#	52
10) Freon 123a	2.231	67	2360	0.47	ppb	#	48
13) 1,1-Diclethene	2.420	96	2041	0.37	ppb	#	58
14) Freon 113	2.439	101	14306	2.47	ppb		85
15) Acetone	2.475	43	1526m	1.19	ppb		
16) 2-Propanol	2.640	45	1576	5.76	ppb		88
18) Carbon Disulfide	2.634	76	5837	0.34	ppb		94
20) Allyl Chloride	2.780	76	640	0.20	ppb	#	1
22) Methylene Chloride	2.914	84	1444	0.25	ppb	#	66
26) trans-1,2-Dichloroethene	3.243	96	3655m	0.59	ppb		
28) 1,1-Diclethane	3.780	63	25544	2.50	ppb		86
34) cis-1,2-Dichloroethene	4.706	96	962826	153.39	ppb		95
41) 1,1,1-Trichloroethane	5.590	97	97088	10.59	ppb		98
54) Trichloroethene	7.078	130	9135	1.36	ppb		86
112) Trielution Dichlorotol...	13.071	125	2647	0.23	ppb	#	85
119) 2,4,5-Trichlorotolene	14.570	159	1926	0.35	ppb	#	84
120) 2,3,6-Trichlorotoluene	14.656	159	1408	0.27	ppb	#	65

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

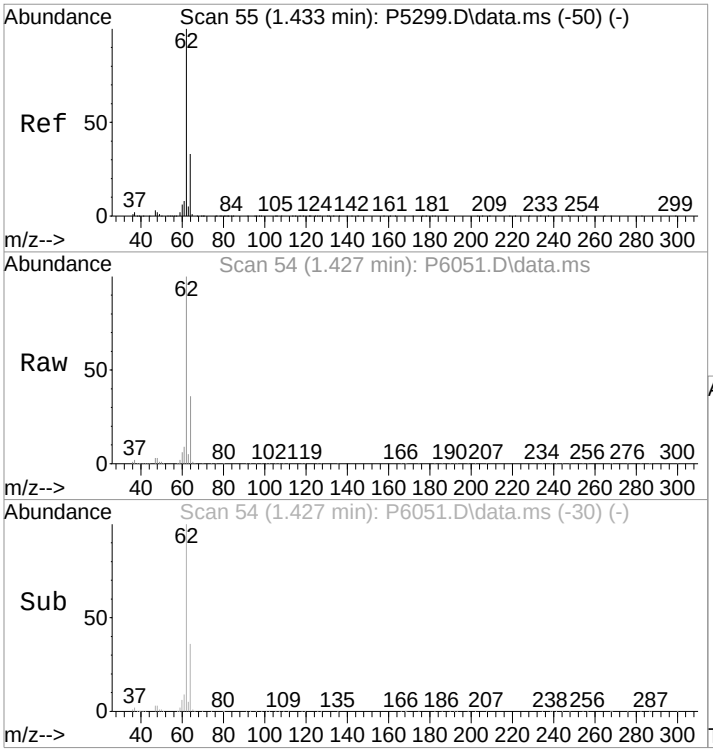
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6051.D
Acq On : 28 Oct 2016 1:44 pm
Operator : K.Ruest
Sample : R1611885-024|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 31 10:40:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



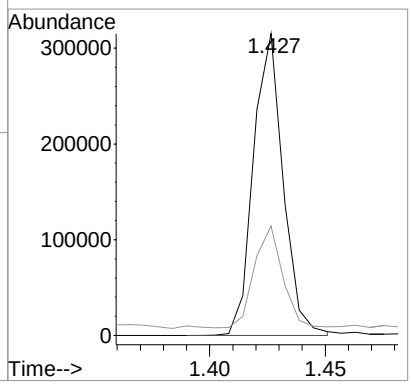
1st 10/31/16
2nd 10/31/16

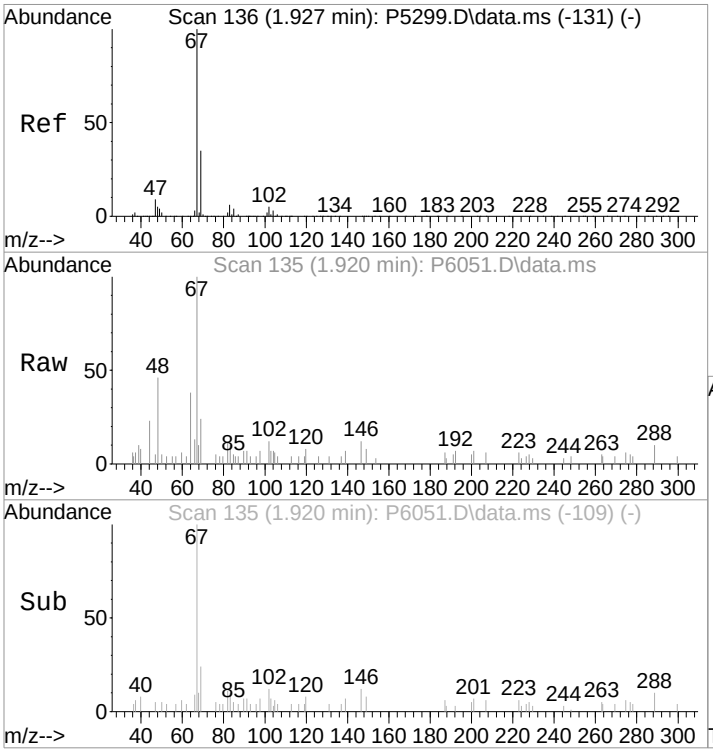


#4
Vinyl Chloride
Concen: 45.31 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 62 Resp: 281978

Ion	Ratio	Lower	Upper
62	100		
64	36.3	13.1	53.1

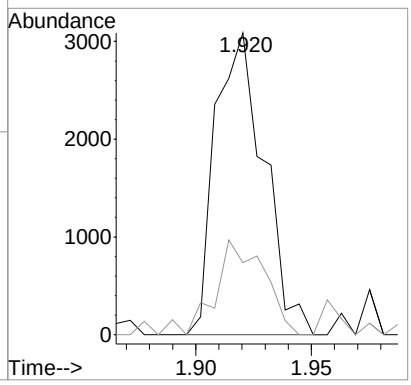


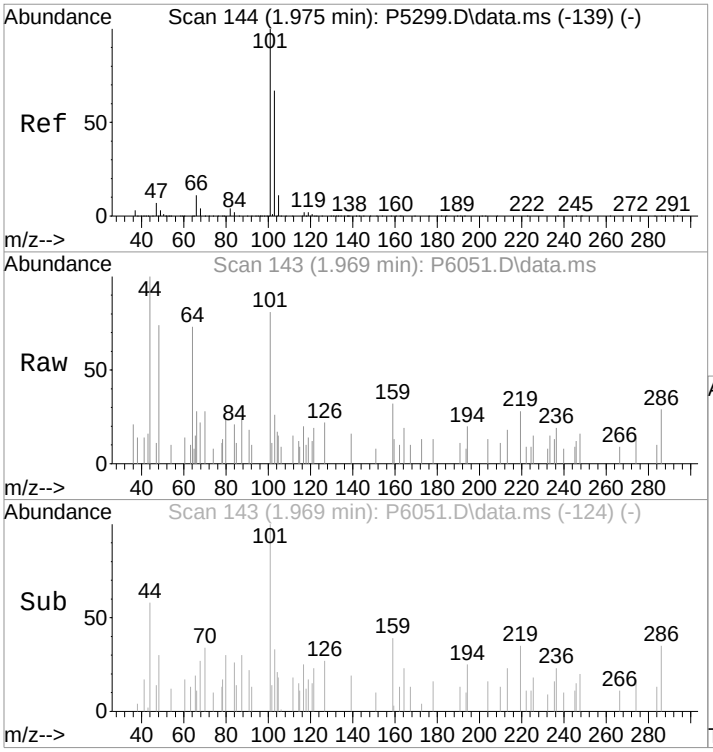


#7
Freon 21
Concen: 0.55 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 67 Resp: 4527

Ion	Ratio	Lower	Upper
67	100		
69	23.8	14.4	54.4

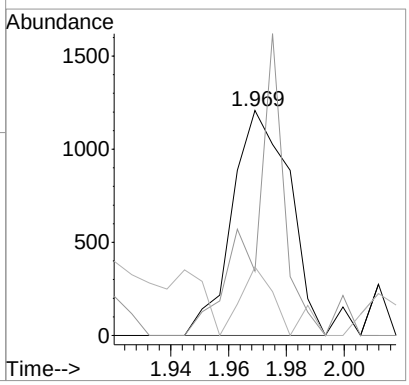


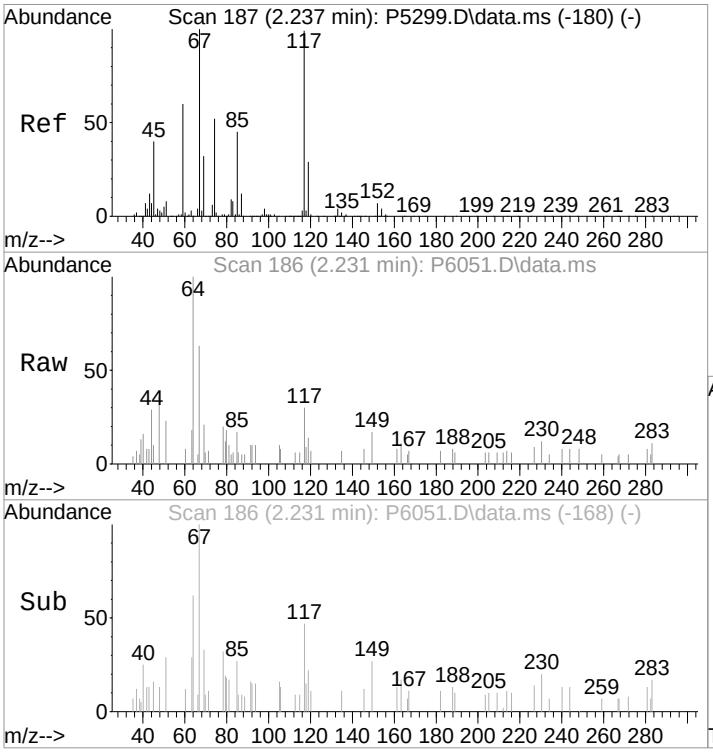


#8
Trichlorofluoromethane
Concen: 0.23 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion:101 Resp: 1669

Ion	Ratio	Lower	Upper
101	100		
103	28.6	47.3	87.3#
66	30.5	0.0	31.5

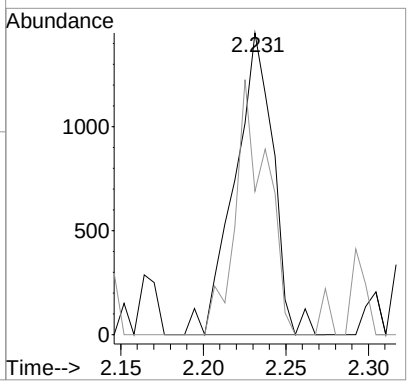


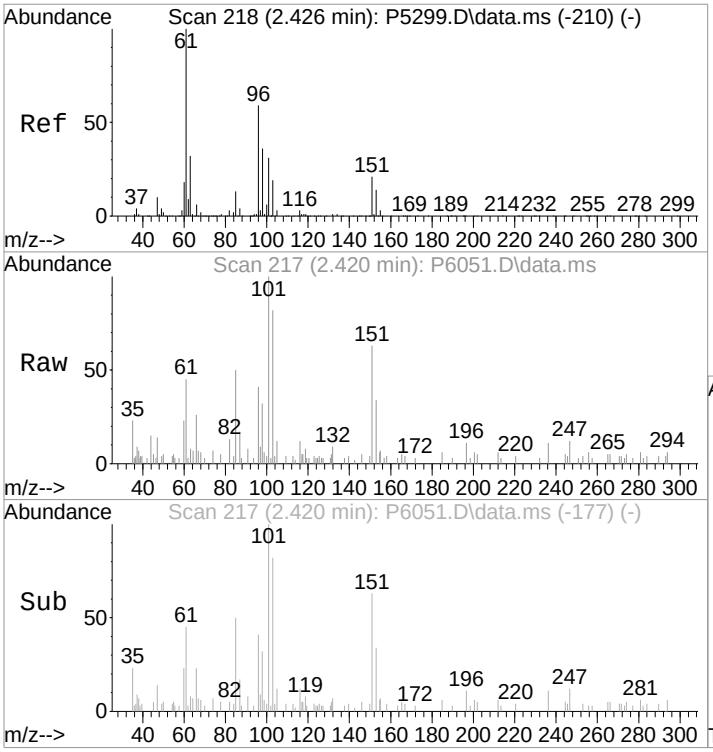


#10
Freon 123a
Concen: 0.47 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 67 Resp: 2360

Ion	Ratio	Lower	Upper
67	100		
117	47.5	78.8	118.8#

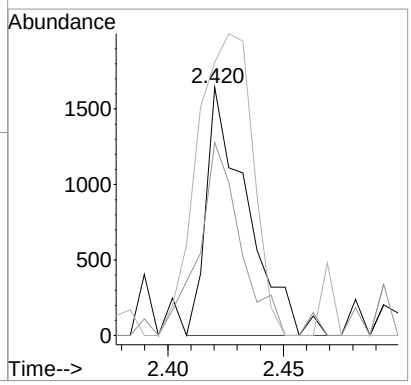


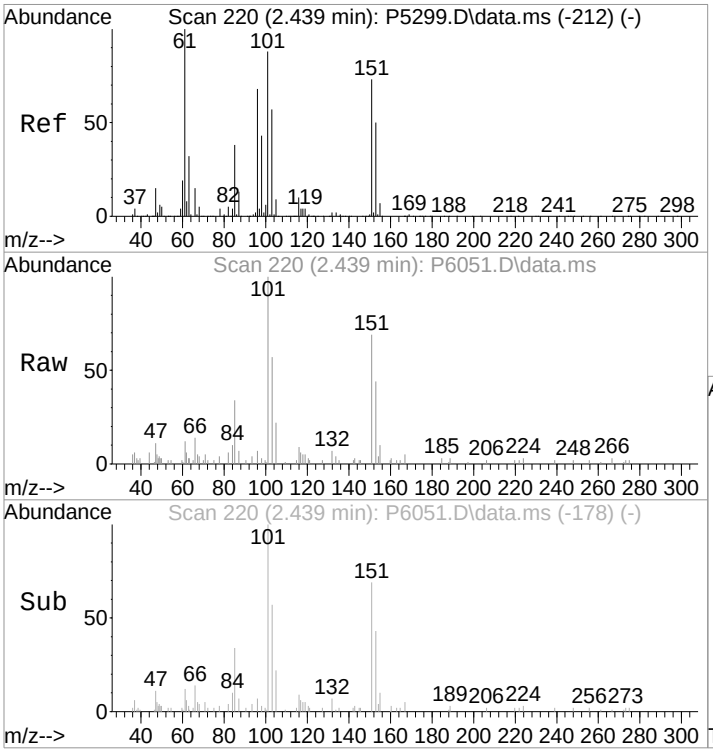


#13
1,1-Diclethene
Concen: 0.37 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 96 Resp: 2041

Ion	Ratio	Lower	Upper
96	100		
98	91.5	41.8	81.8#
61	110.2	150.1	190.1#

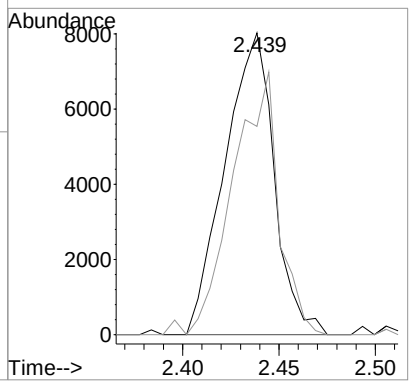


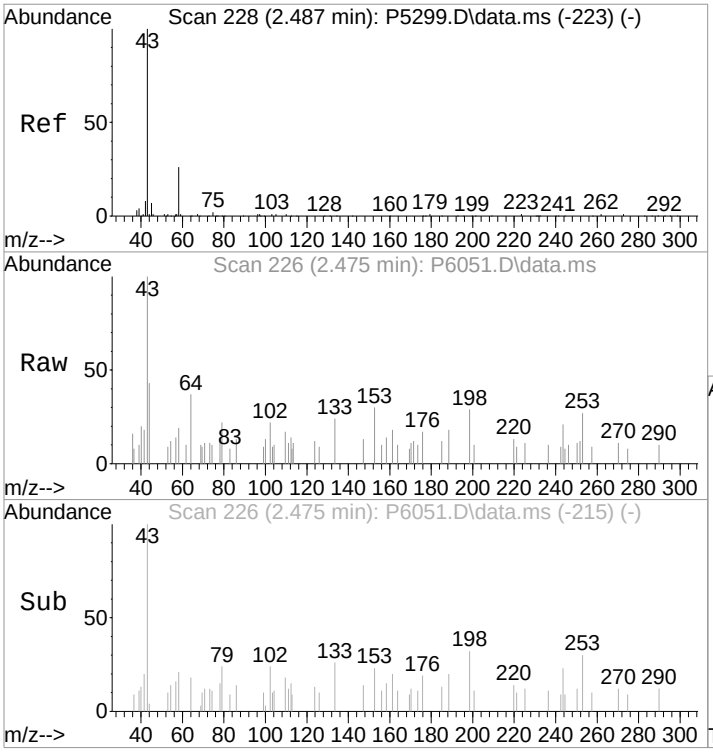


#14
Freon 113
Concen: 2.47 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion:101 Resp: 14306

Ion	Ratio	Lower	Upper
101	100		
151	69.0	62.6	102.6

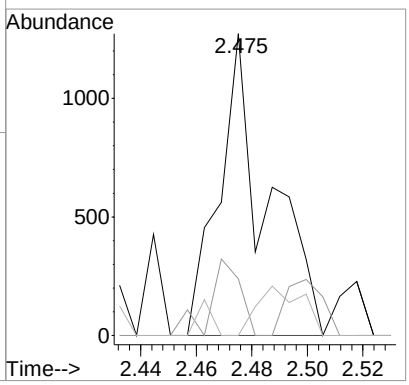


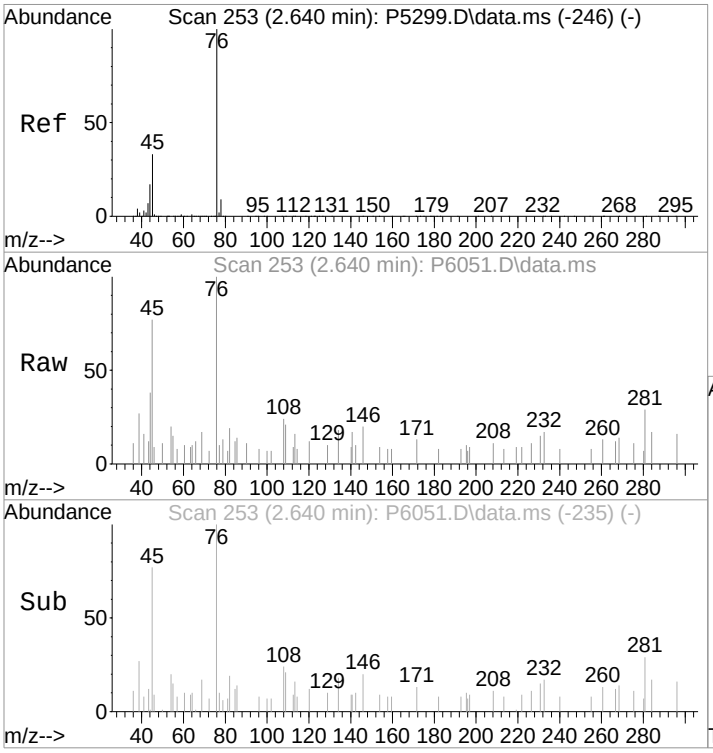


#15
Acetone
Concen: 1.19 ppb m
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 43 Resp: 1526

Ion	Ratio	Lower	Upper
43	100		
58	18.8	5.3	45.3
42	0.0	0.0	28.7

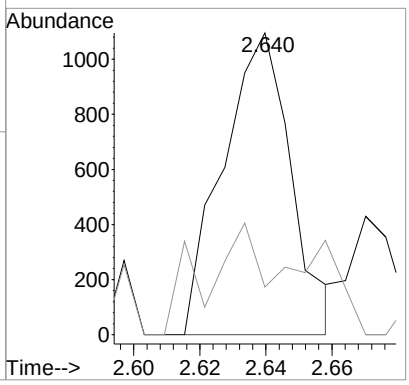


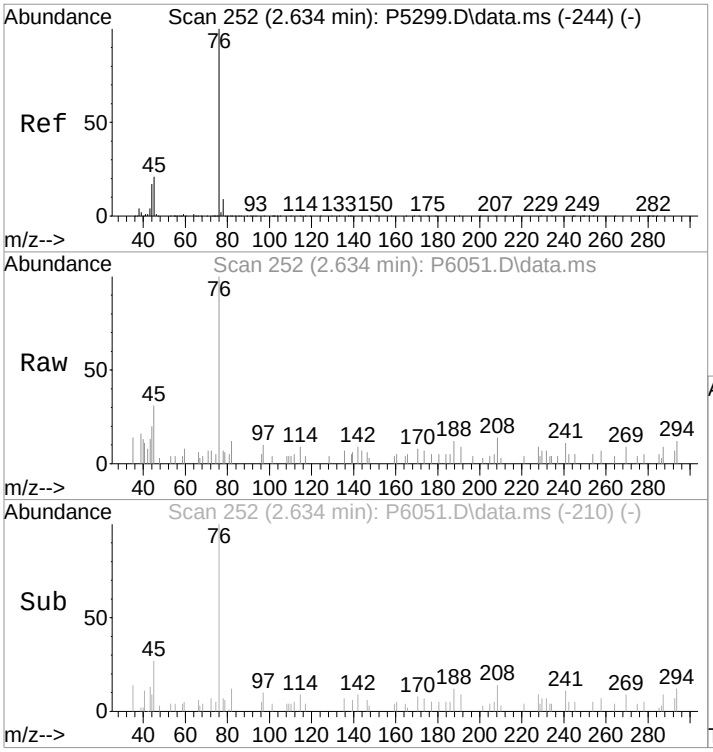


#16
2-Propanol
Concen: 5.76 ppb
RT: 2.640 min Scan# 253
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 45 Resp: 1576

Ion	Ratio	Lower	Upper
45	100		
43	15.8	1.6	41.6

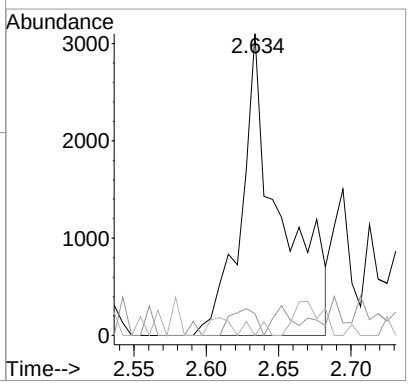


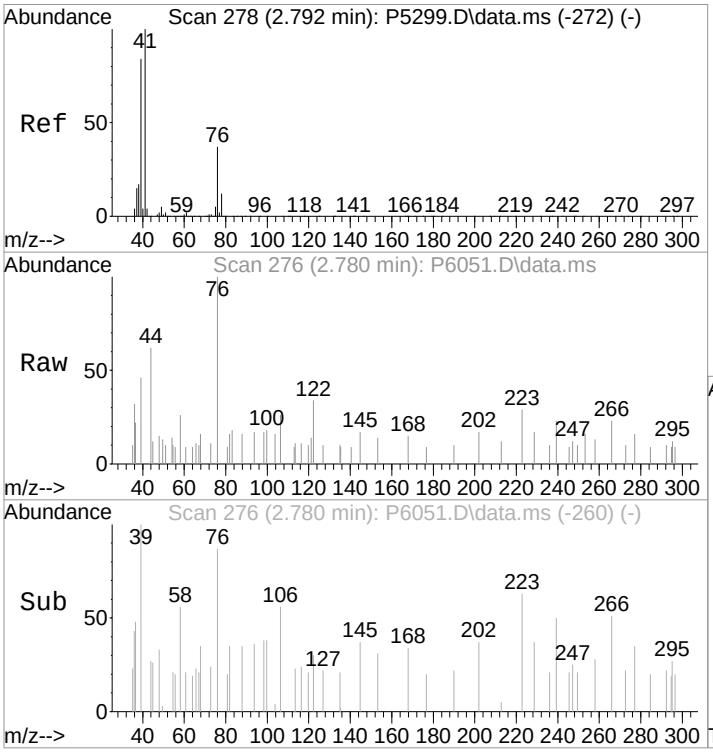


#18
Carbon Disulfide
Concen: 0.34 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 76 Resp: 5837

Ion	Ratio	Lower	Upper
76	100		
78	7.3	0.0	29.3
77	0.0	0.0	22.5

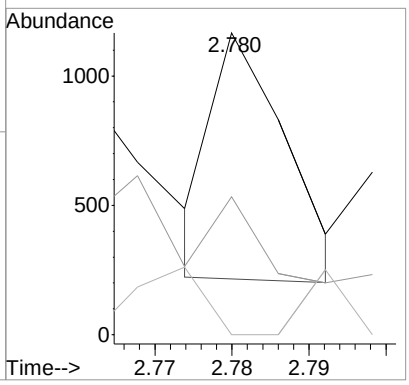


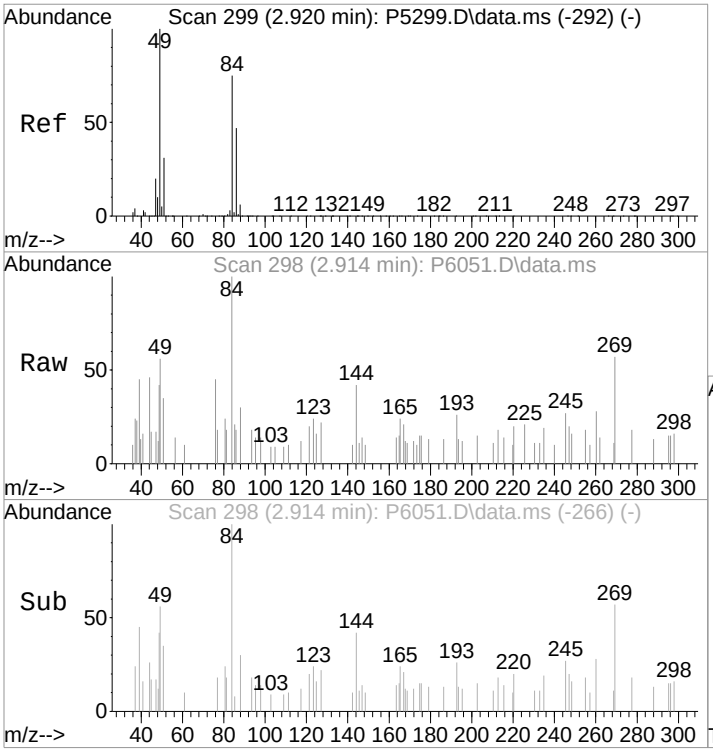


#20
Allyl Chloride
Concen: 0.20 ppb
RT: 2.780 min Scan# 276
Delta R.T. -0.012 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 76 Resp: 640

Ion	Ratio	Lower	Upper
76	100		
39	45.7	219.2	259.2#
41	0.0	299.6	339.6#

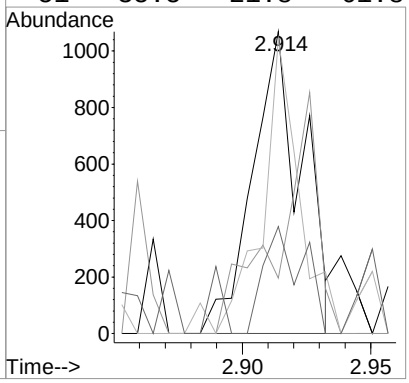


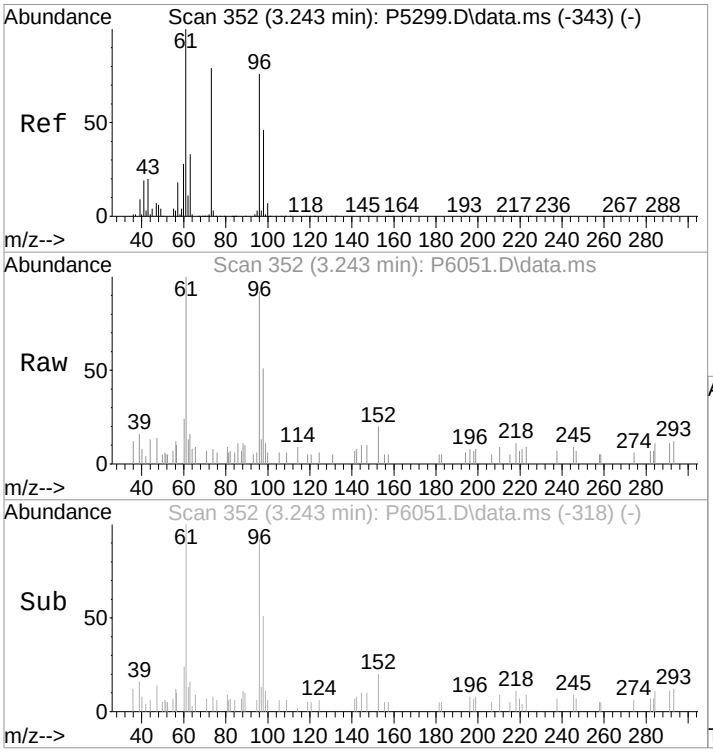


#22
Methylene Chloride
Concen: 0.25 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 84 Resp: 1444

Ion	Ratio	Lower	Upper
84	100		
86	18.3	42.8	82.8#
49	97.6	113.9	153.9#
51	35.5	21.8	61.8

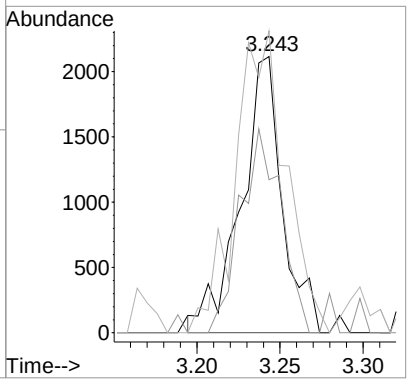


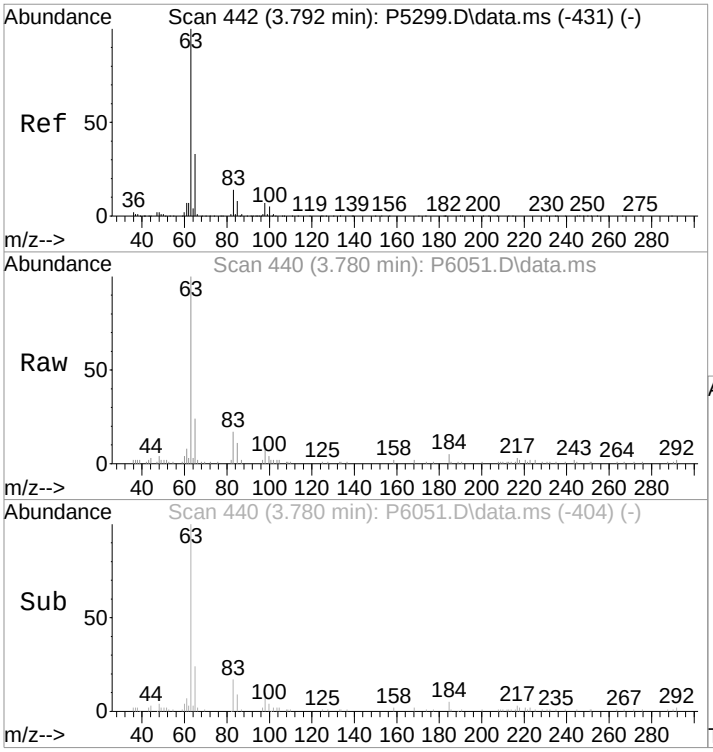


#26
trans-1,2-Dichloroethene
Concen: 0.59 ppb m
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 96 Resp: 3655

Ion	Ratio	Lower	Upper
96	100		
98	55.4	41.0	81.0
61	109.3	112.4	152.4#

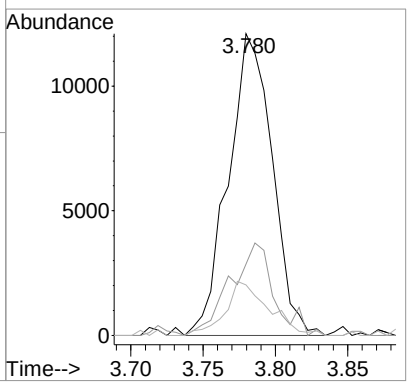


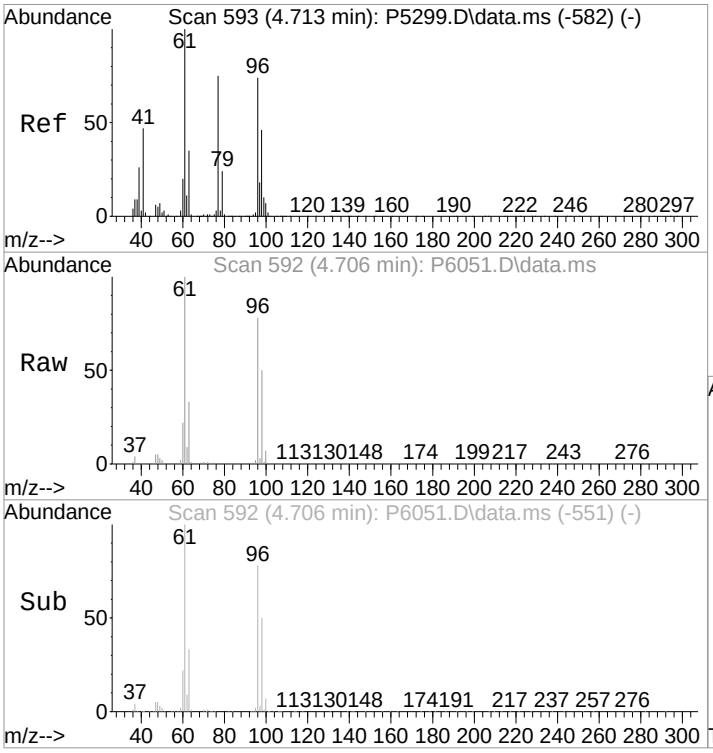


#28
1,1-Diclethane
Concen: 2.50 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 63 Resp: 25544

Ion	Ratio	Lower	Upper
63	100		
65	23.7	12.9	52.9
83	16.7	0.0	33.5

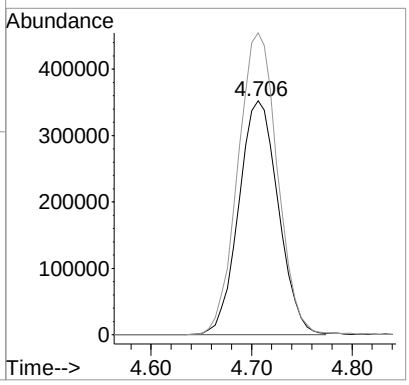


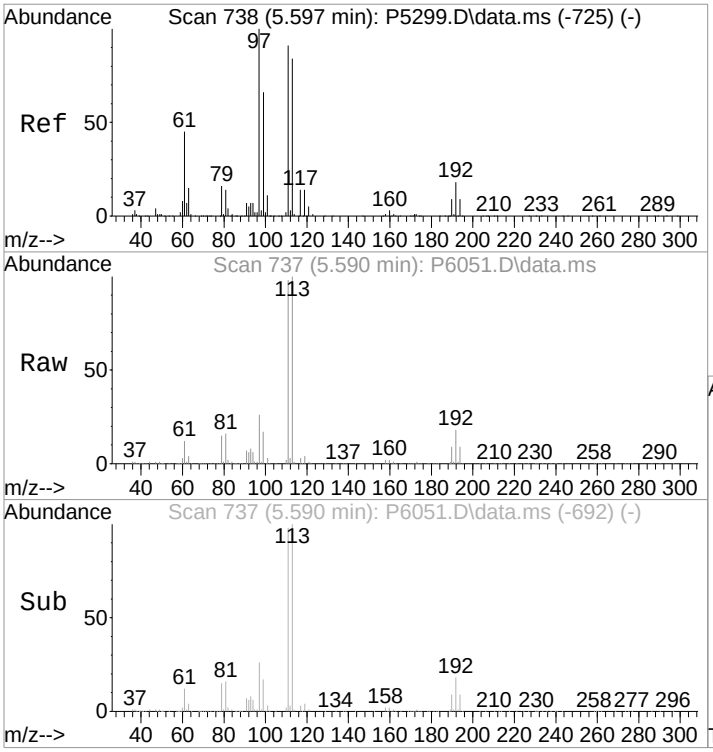


#34
cis-1,2-Dichloroethene
Concen: 153.39 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 96 Resp: 962826

Ion	Ratio	Lower	Upper
96	100		
61	129.0	114.6	154.6

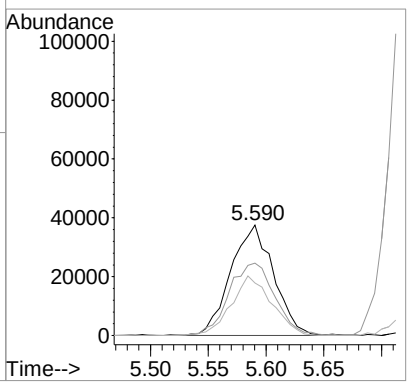


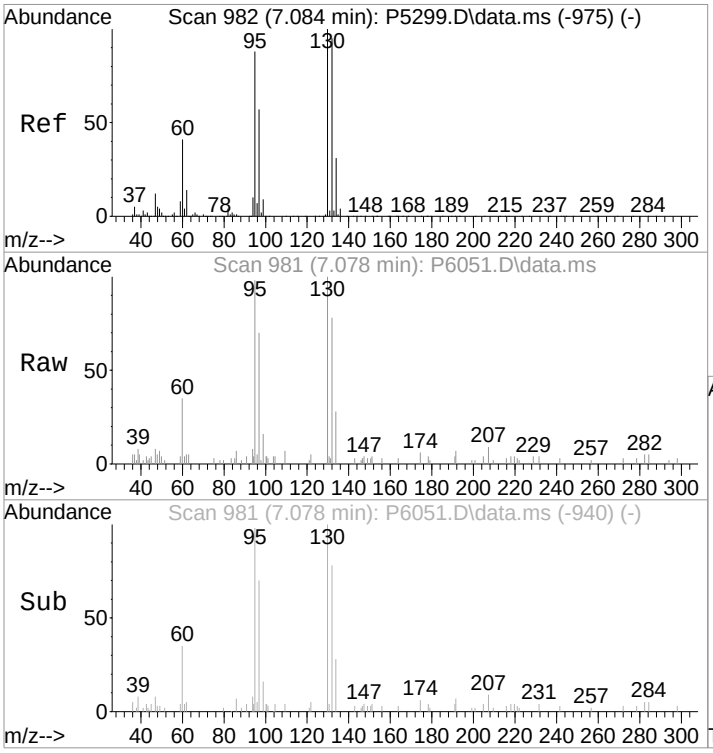


#41
1,1,1-Trichloroethane
Concen: 10.59 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion: 97 Resp: 97088

Ion	Ratio	Lower	Upper
97	100		
99	65.5	46.2	86.2
61	47.5	25.3	65.3

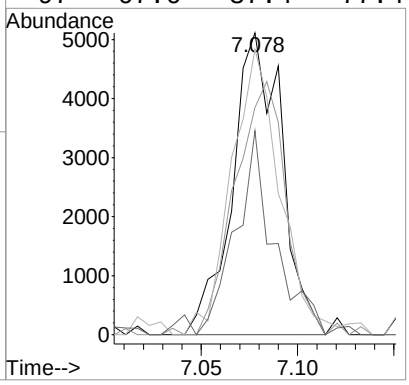


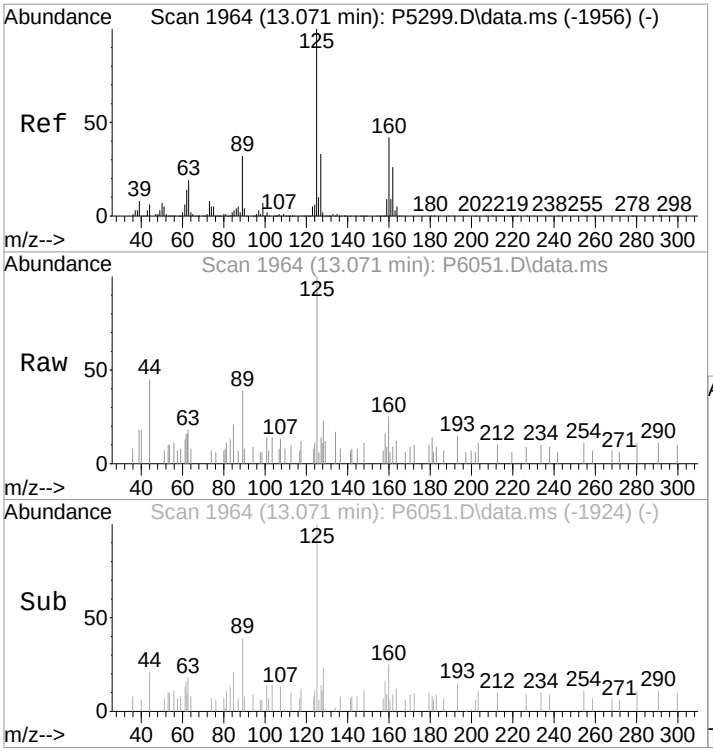


#54
Trichloroethene
Concen: 1.36 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion:130 Resp: 9135

Ion	Ratio	Lower	Upper
130	100		
132	75.2	75.2	115.2
95	94.6	68.1	108.1
97	67.6	37.4	77.4

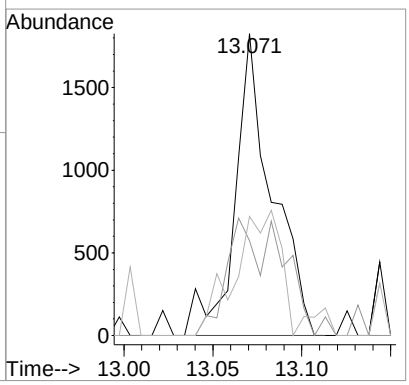


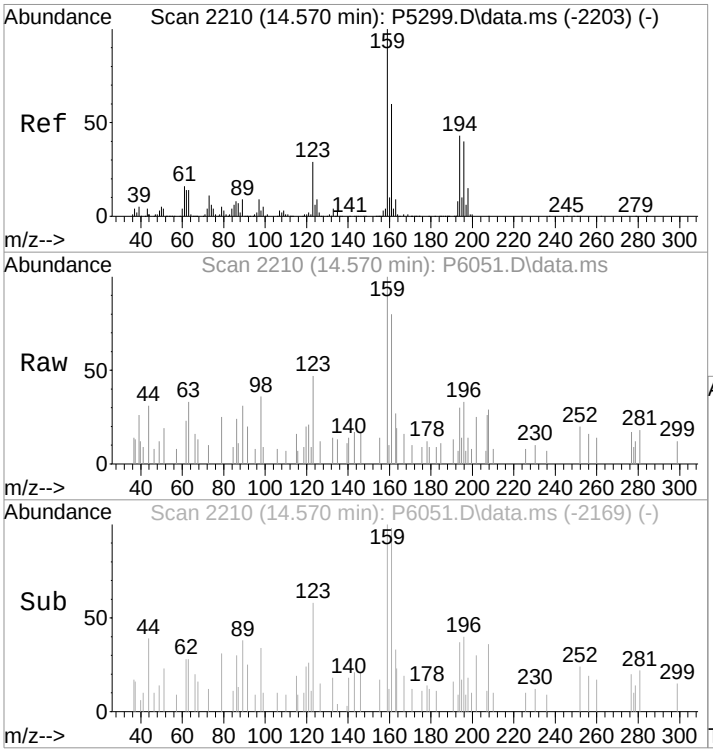


#112
Trielution Dichlorotoluene
Concen: 0.23 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion:125 Resp: 2647

Ion	Ratio	Lower	Upper
125	100		
160	31.4	33.6	50.4#
89	39.4	25.8	38.8#

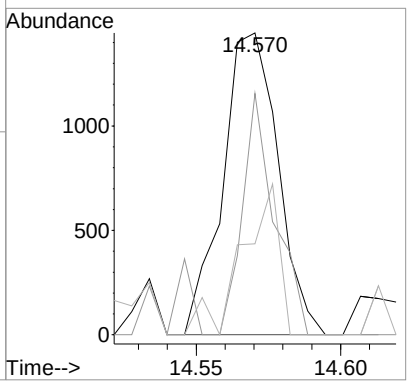


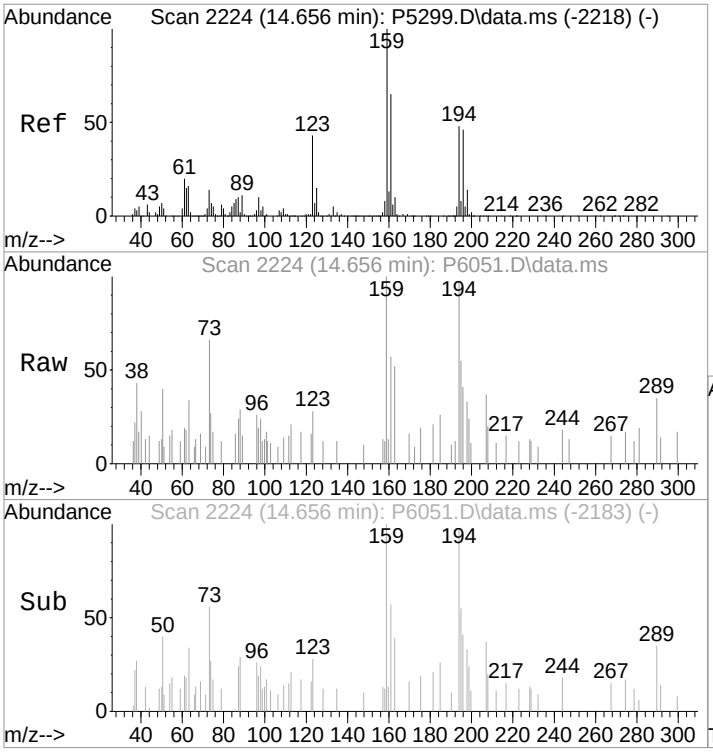


#119
2,4,5-Trichlorotolene
Concen: 0.35 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion:159 Resp: 1926

Ion	Ratio	Lower	Upper
159	100		
161	79.9	48.1	72.1#
194	43.6	34.5	51.7

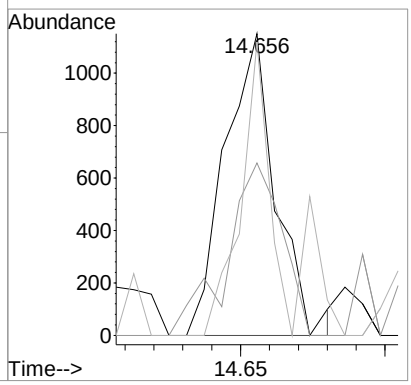




#120
2,3,6-Trichlorotoluene
Concen: 0.27 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6051.D
Acq: 28 Oct 2016 1:44 pm

Tgt Ion:159 Resp: 1408

Ion	Ratio	Lower	Upper
159	100		
161	50.5	52.3	78.5#
194	86.0	38.6	57.8#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6005.D
Acq On : 27 Oct 2016 1:51 pm
Operator : K.Ruest
Sample : R1611185-025|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 14:59:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

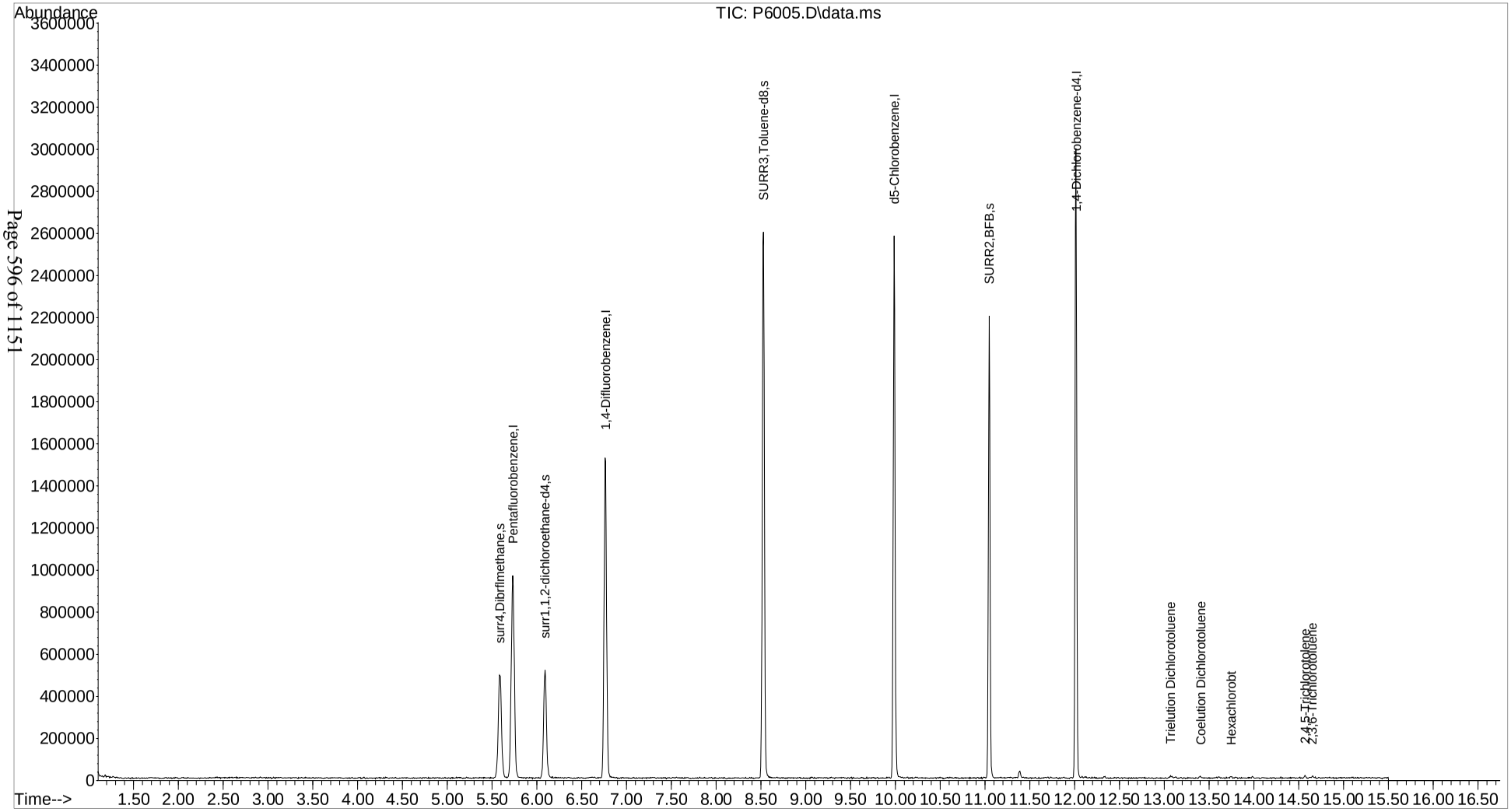
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.731	168	800684	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1295378	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1188427	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	604221	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.584	113	383864	55.52	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 111.04%			
48) surr1,1,2-dichloroetha...	6.090	65	403222	51.34	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.68%			
65) SURR3,Toluene-d8	8.529	98	1609640	56.82	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.64%			
70) SURR2,BFB	11.047	95	582919	52.74	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.48%			
Target Compounds						Qvalue
112) Trielution Dichlorotol...	13.071	125	4066	0.35	ppb	# 91
114) Coelution Dichlorotoluene	13.406	125	3102	0.24	ppb	# 72
116) Hexachlorobt	13.747	225	1144	0.29	ppb	# 69
119) 2,4,5-Trichlorotolene	14.570	159	2734	0.48	ppb	# 75
120) 2,3,6-Trichlorotoluene	14.650	159	1786	0.34	ppb	# 84

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

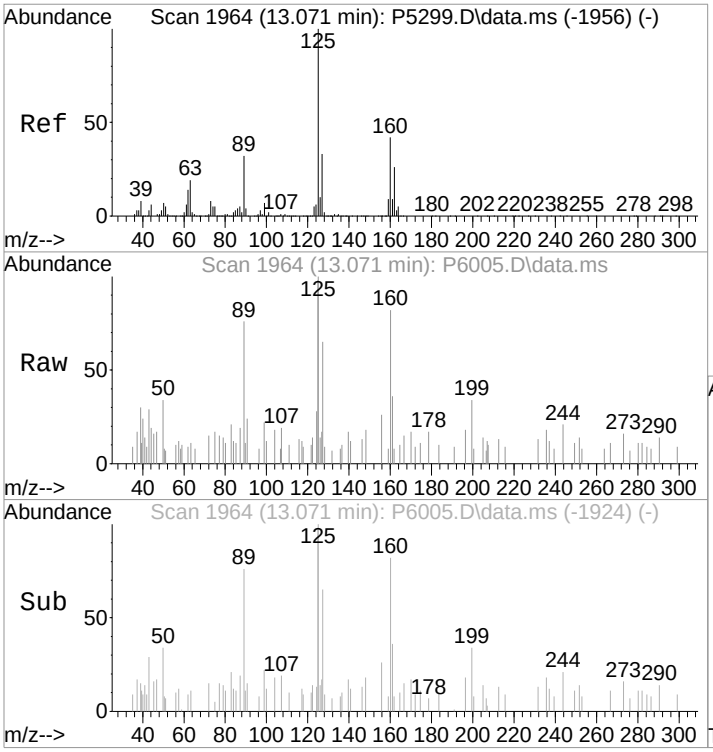
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6005.D
Acq On : 27 Oct 2016 1:51 pm
Operator : K.Ruest
Sample : R1611185-025|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 14:59:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



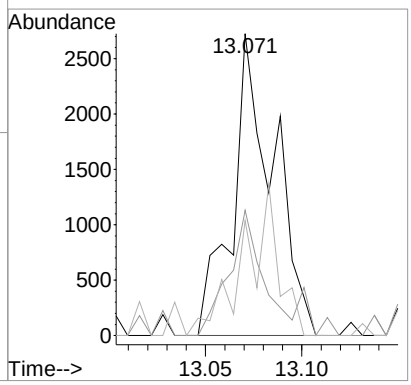
1st 10/27/16
2nd 10/31/16

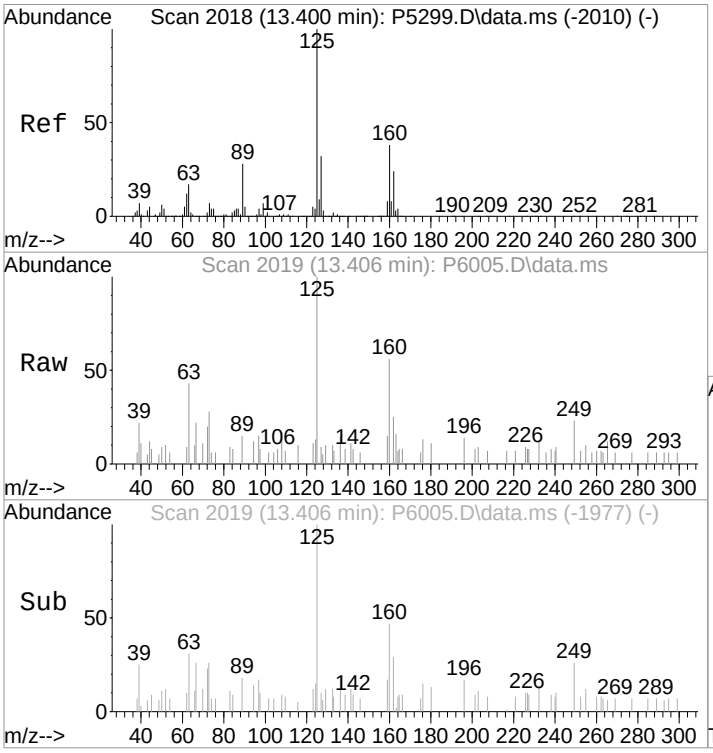


#112
Trielution Dichlorotoluene
Concen: 0.35 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P6005.D
Acq: 27 Oct 2016 1:51 pm

Tgt Ion:125 Resp: 4066

Ion	Ratio	Lower	Upper
125	100		
160	41.5	33.6	50.4
89	43.6	25.8	38.8#

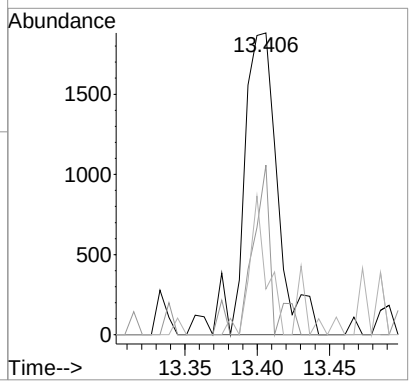


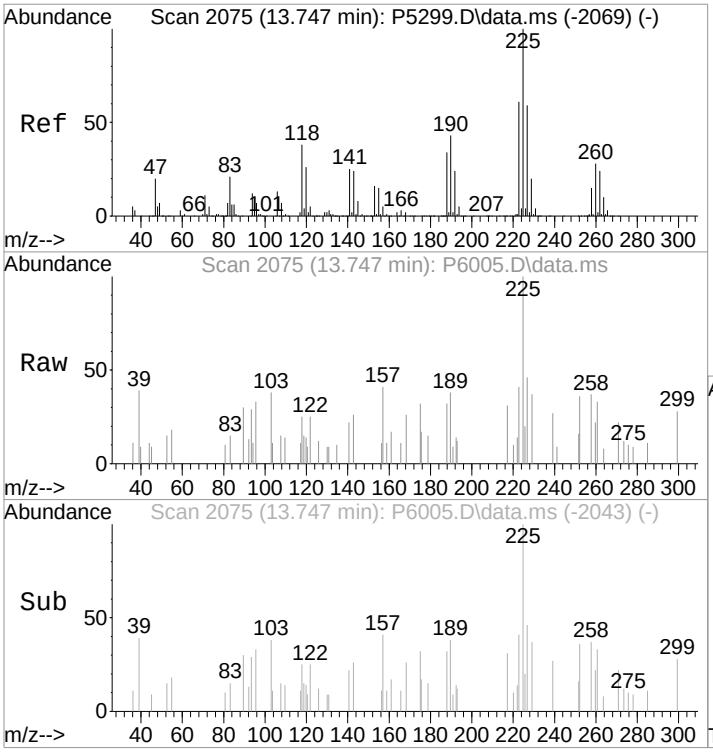


#114
Coelution Dichlorotoluene
Concen: 0.24 ppb
RT: 13.406 min Scan# 2019
Delta R.T. 0.006 min
Lab File: P6005.D
Acq: 27 Oct 2016 1:51 pm

Tgt Ion:125 Resp: 3102

Ion	Ratio	Lower	Upper
125	100		
160	56.2	30.2	45.2#
89	15.2	22.7	34.1#

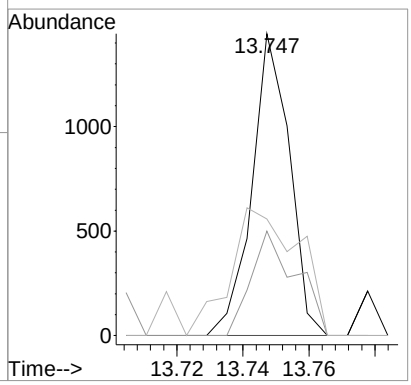


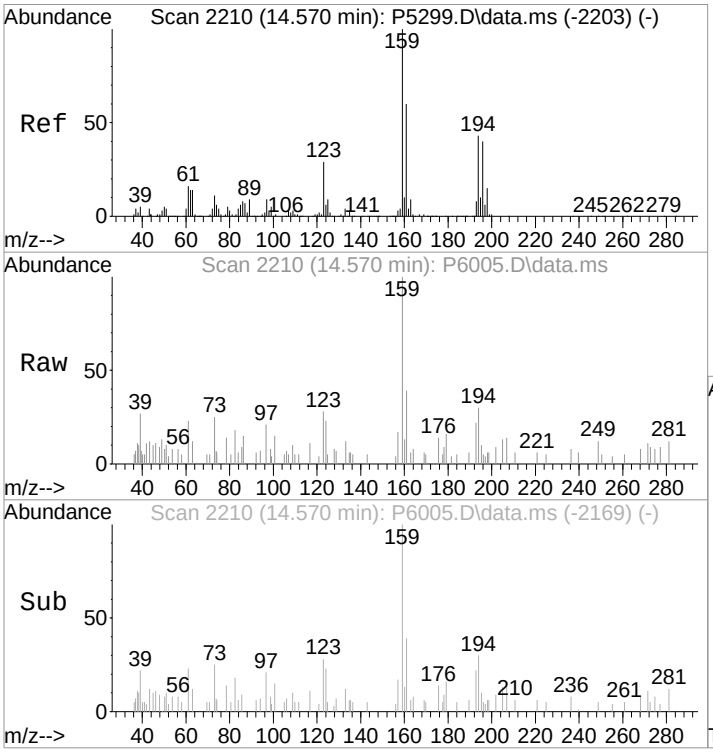


#116
Hexachlorobt
Concen: 0.29 ppb
RT: 13.747 min Scan# 2075
Delta R.T. -0.000 min
Lab File: P6005.D
Acq: 27 Oct 2016 1:51 pm

Tgt Ion:225 Resp: 1144

Ion	Ratio	Lower	Upper
225	100		
223	34.5	41.4	81.4#
227	38.6	39.1	79.1#

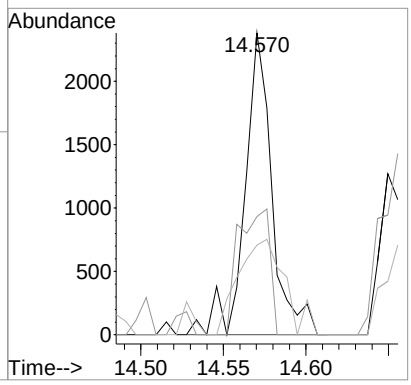


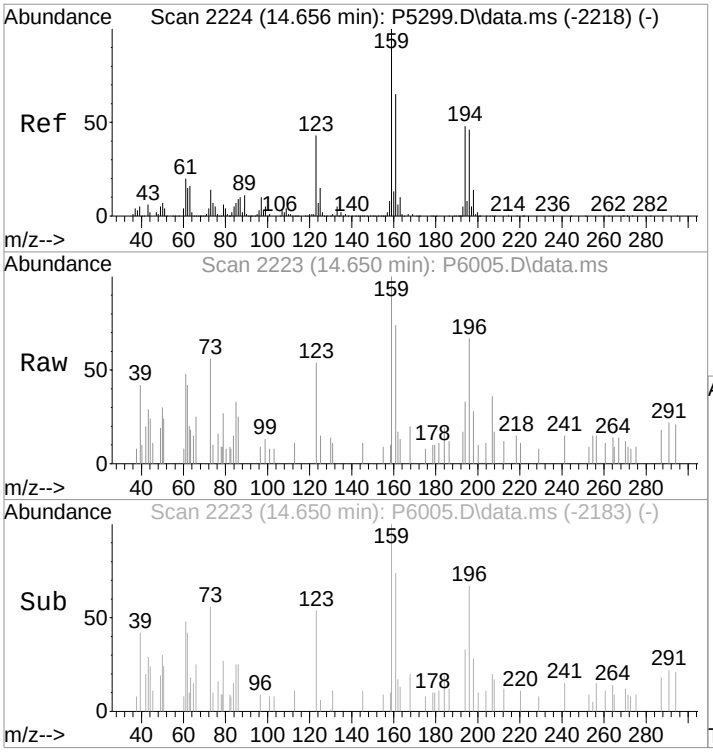


#119
2,4,5-Trichlorotolene
Concen: 0.48 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6005.D
Acq: 27 Oct 2016 1:51 pm

Tgt Ion:159 Resp: 2734

Ion	Ratio	Lower	Upper
159	100		
161	39.1	48.1	72.1#
194	29.7	34.5	51.7#

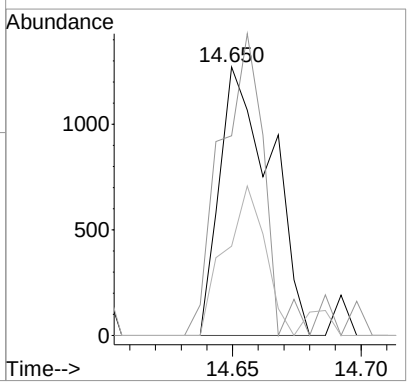




#120
2,3,6-Trichlorotoluene
Concen: 0.34 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P6005.D
Acq: 27 Oct 2016 1:51 pm

Tgt Ion:159 Resp: 1786

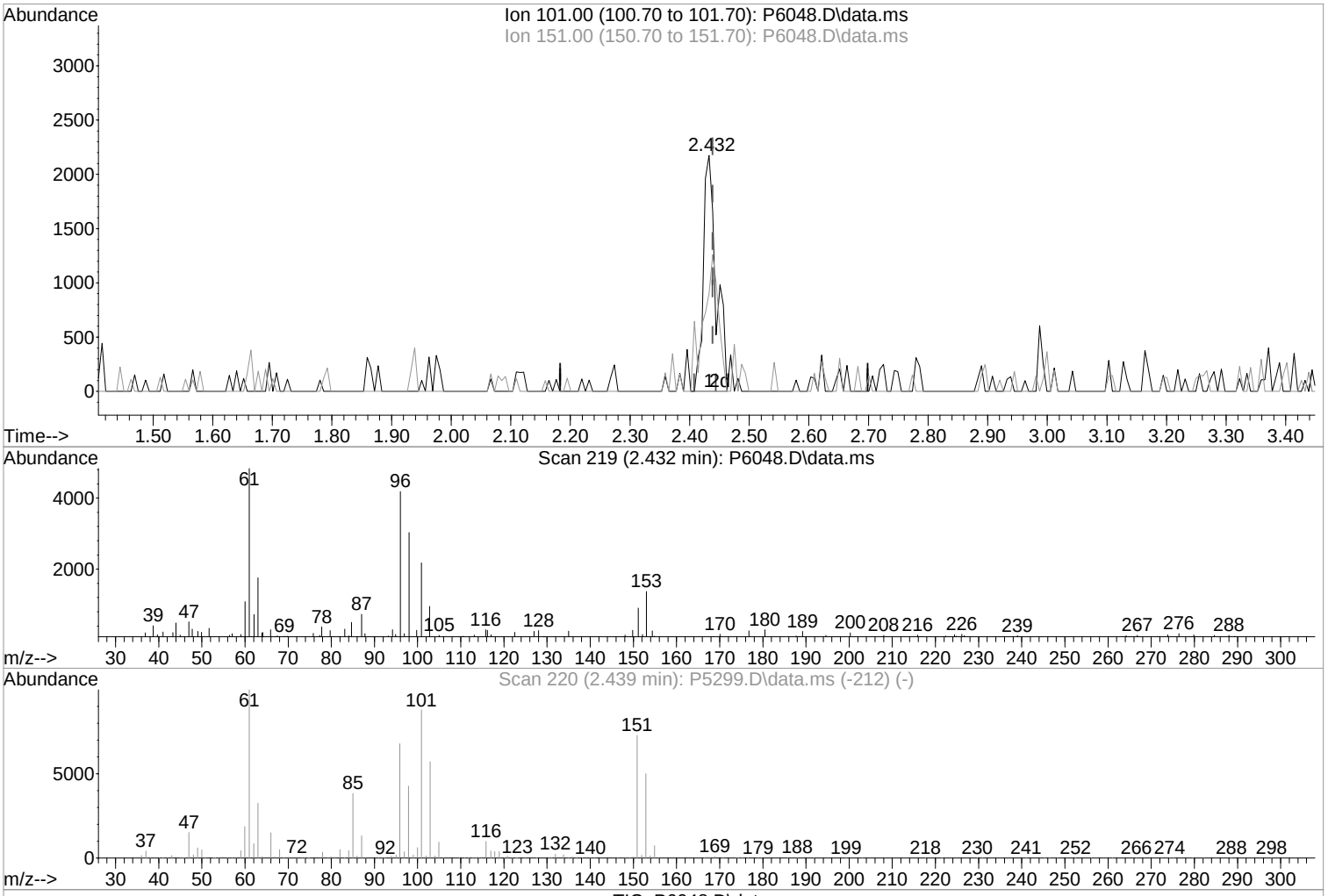
Ion	Ratio	Lower	Upper
159	100		
161	74.4	52.3	78.5
194	33.2	38.6	57.8#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6048.D
Acq On : 28 Oct 2016 12:13 pm
Operator : K.Ruest
Sample : R16~~11885~~-026|1.0 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 28 13:18:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6048.D\data.ms

(14) Freon 113 (P)

2.432min (-0.006) 0.56 ppb m

response 3244

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	41.47#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

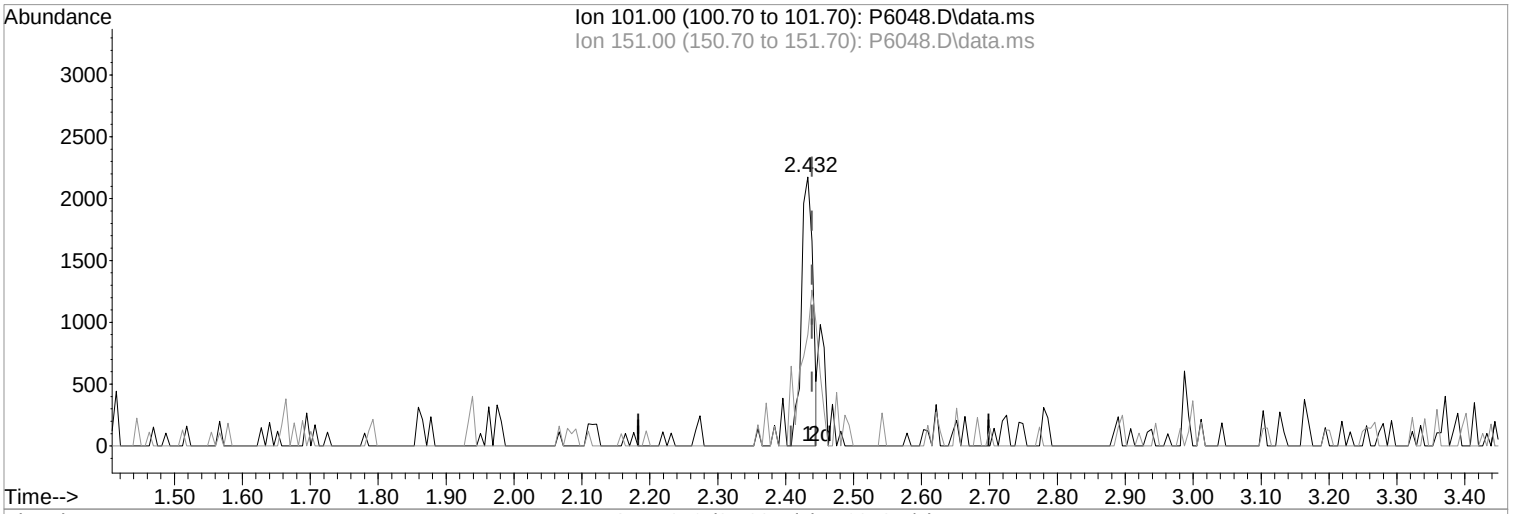
Split Peak

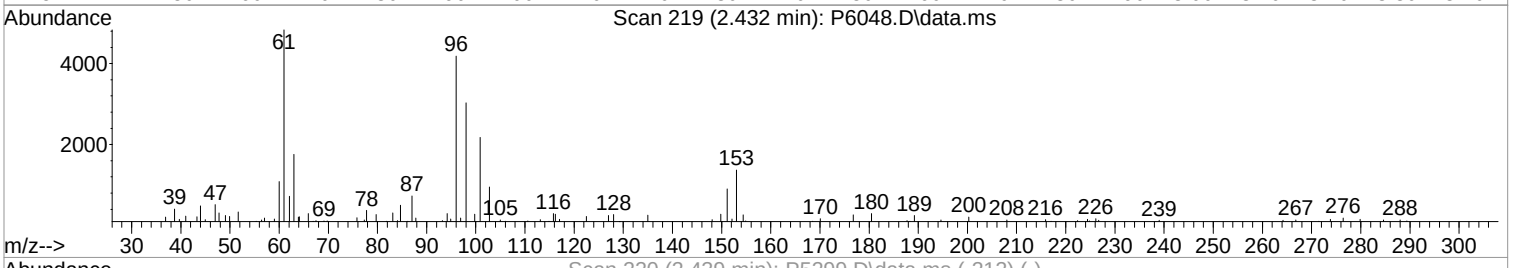
10/31/16

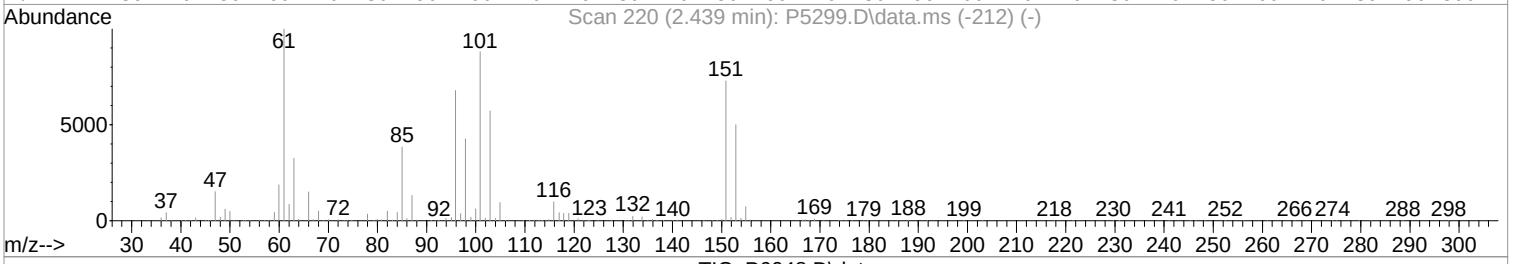
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6048.D
Acq On : 28 Oct 2016 12:13 pm
Operator : K.Ruest
Sample : R16~~11885~~-026|1.0 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 28 13:18:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6048.D\data.ms

(14) Freon 113 (P)

2.432min (-0.006) 0.45 ppb

response 2594

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	41.47#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6048.D
Acq On : 28 Oct 2016 12:13 pm
Operator : K.Ruest
Sample : R16~~11885~~11185-026|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 31 10:26:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

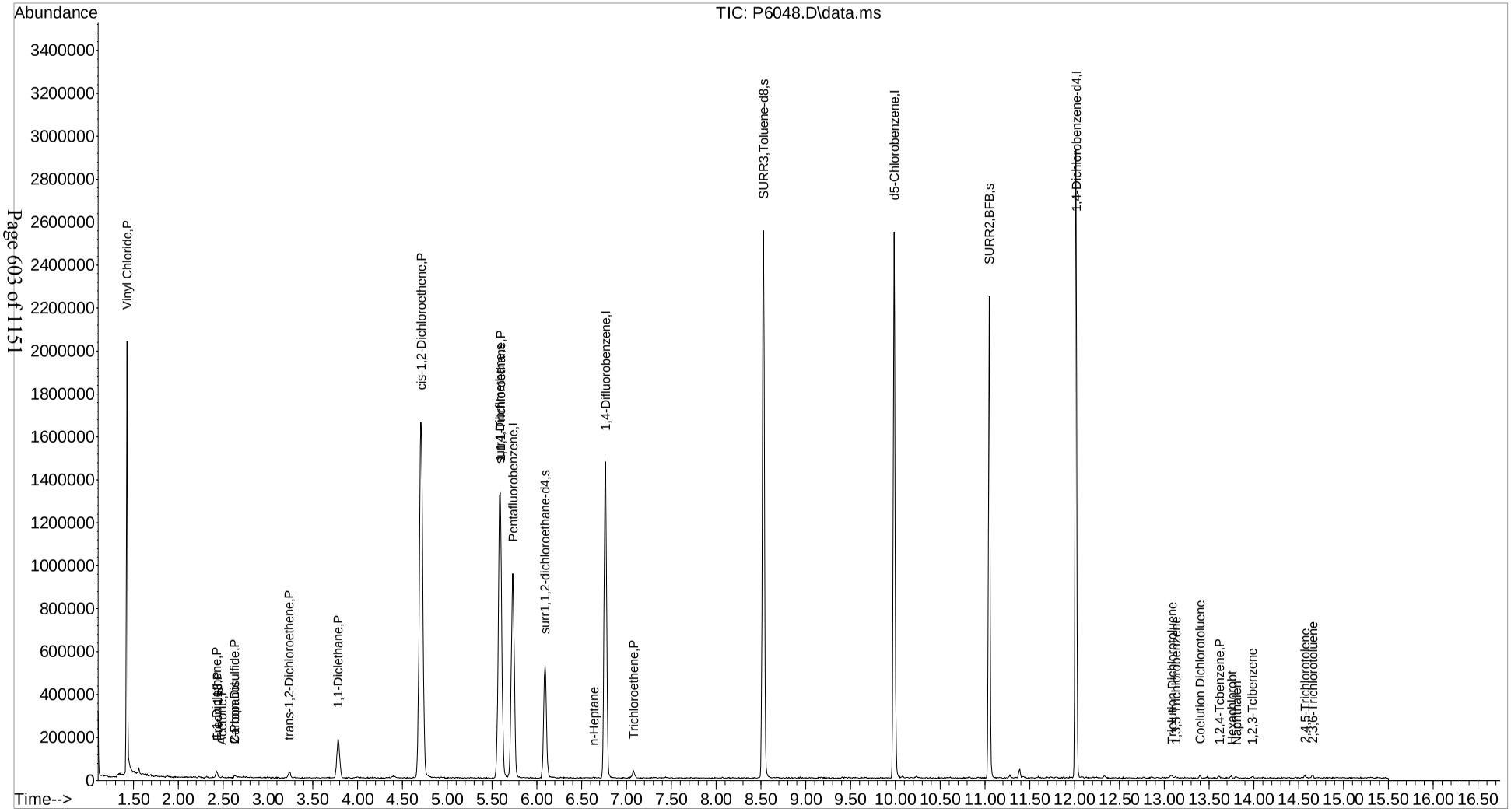
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	784007	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1272074	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1154935	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	587842	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	373048	54.95	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.90%				
48) surr1,1,2-dichloroetha...	6.090	65	410489	53.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.46%				
65) SURR3,Toluene-d8	8.529	98	1580649	56.82	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.64%				
70) SURR2,BFB	11.047	95	577026	53.16	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.32%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	1085928	175.07	ppb		97
13) 1,1-Diclethene	2.426	96	7100	1.30	ppb		93
14) Freon 113	2.432	101	3244m	0.56	ppb		
15) Acetone	2.487	43	2033	1.59	ppb		97
16) 2-Propanol	2.628	45	4273	15.67	ppb		90
18) Carbon Disulfide	2.628	76	12195	0.71	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	10699	1.75	ppb		96
28) 1,1-Diclethane	3.780	63	203085	19.95	ppb		95
34) cis-1,2-Dichloroethene	4.706	96	1064353	170.13	ppb		88
41) 1,1,1-Trichloroethane	5.590	97	736985	80.63	ppb		96
52) n-Heptane	6.633	43	1708	0.20	ppb		89
54) Trichloroethene	7.078	130	12256	1.82	ppb		97
112) Trielution Dichlorotol...	13.083	125	4938	0.43	ppb	#	81
113) 1,3,5 Trichlorobenzene	13.125	180	2137	0.21	ppb	#	61
114) Coelution Dichlorotoluene	13.394	125	3338	0.27	ppb	#	60
115) 1,2,4-Tcbenzene	13.613	180	2030	0.22	ppb	#	66
116) Hexachlorobt	13.753	225	1280	0.33	ppb	#	69
117) Naphthalen	13.802	128	3222	0.20	ppb		85
118) 1,2,3-Tclbenzene	13.979	180	2550	0.33	ppb	#	53
119) 2,4,5-Trichlorotolene	14.570	159	3166	0.57	ppb	#	74
120) 2,3,6-Trichlorotoluene	14.656	159	3299	0.65	ppb	#	65

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

Quantitation Report (QT Reviewed)

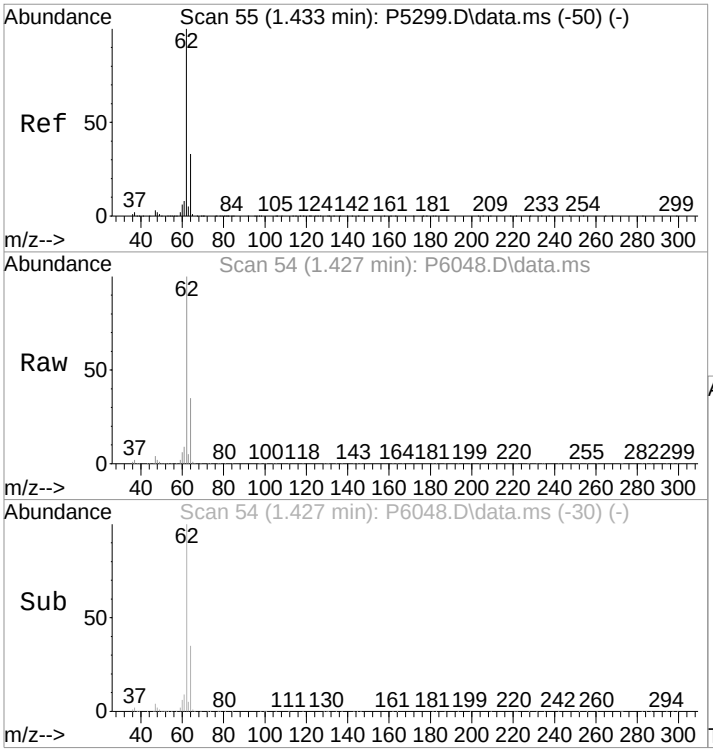
Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6048.D
Acq On : 28 Oct 2016 12:13 pm
Operator : K.Ruest
Sample : R1611885-026|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 31 10:26:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Page 603 of 1151

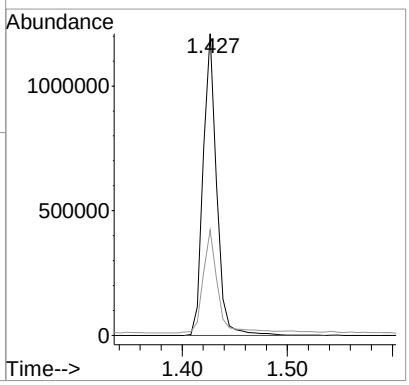
1st 10/31/16
2nd 10/31/16

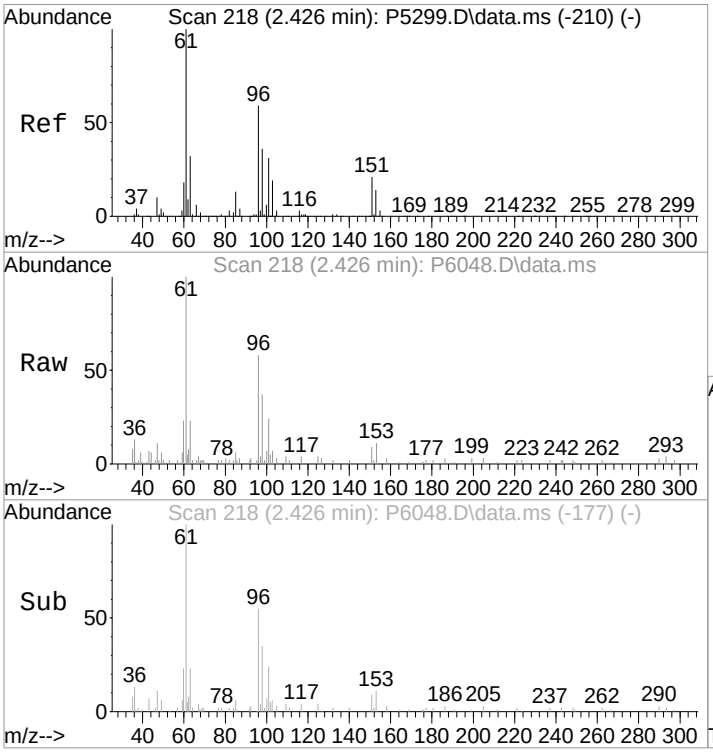


#4
Vinyl Chloride
Concen: 175.07 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 62 Resp: 1085928

Ion	Ratio	Lower	Upper
62	100		
64	35.0	13.1	53.1

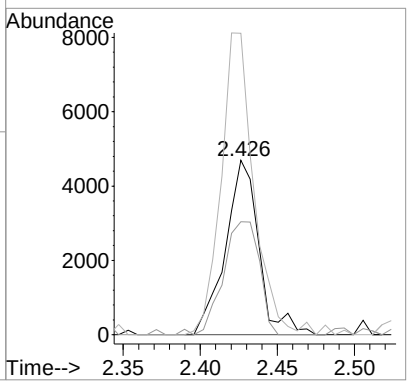


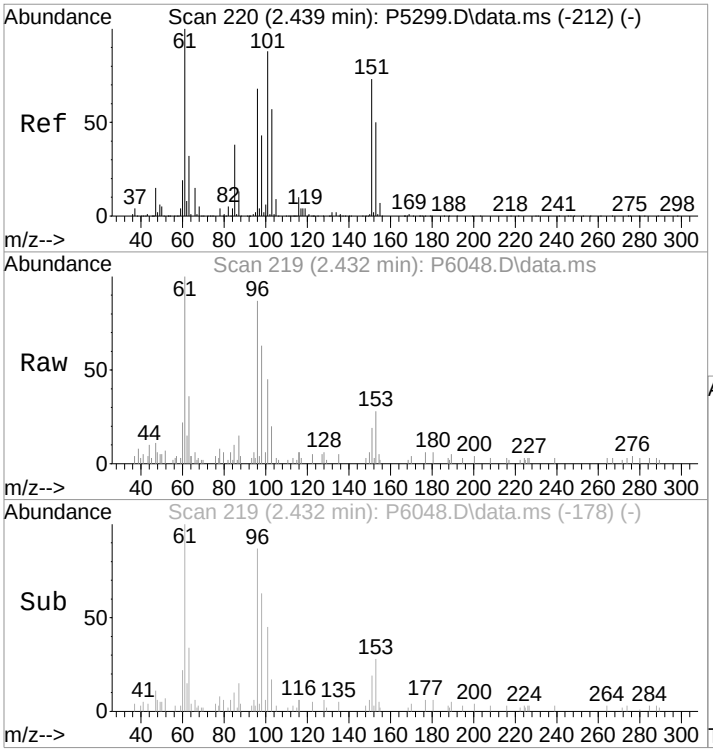


#13
1,1-Diclethene
Concen: 1.30 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 96 Resp: 7100

Ion	Ratio	Lower	Upper
96	100		
98	64.7	41.8	81.8
61	180.8	150.1	190.1

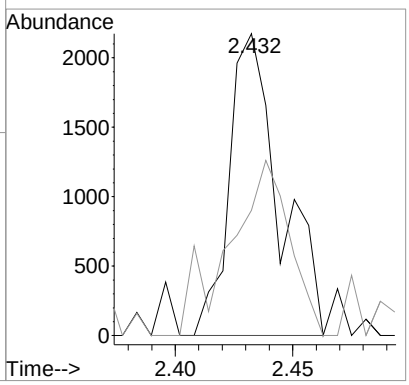


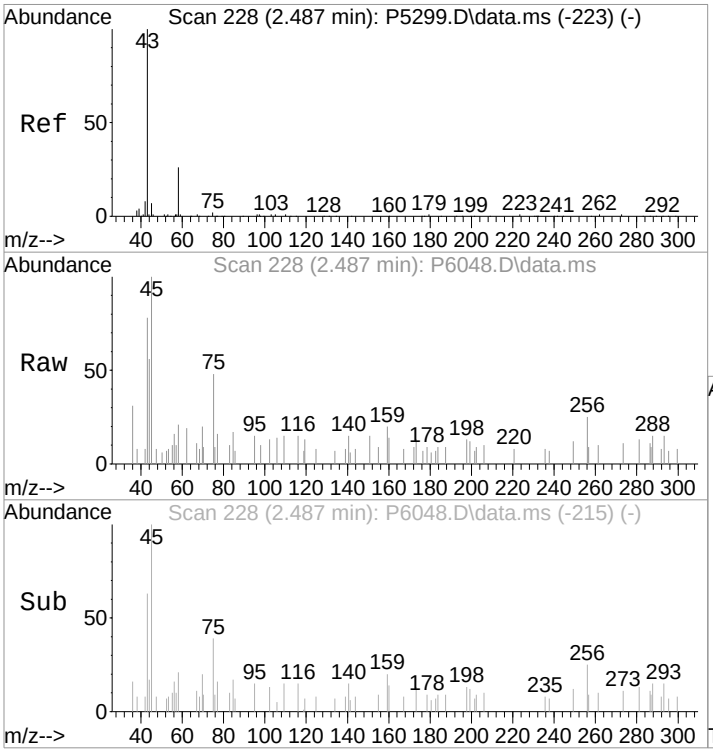


#14
Freon 113
Concen: 0.56 ppb m
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:101 Resp: 3244

Ion	Ratio	Lower	Upper
101	100		
151	41.5	62.6	102.6#

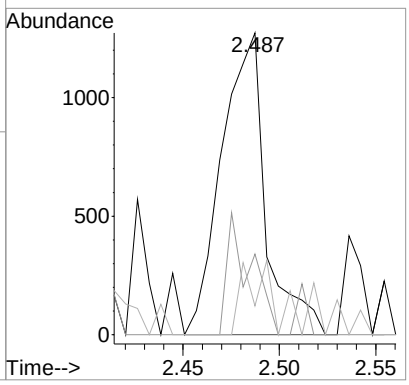


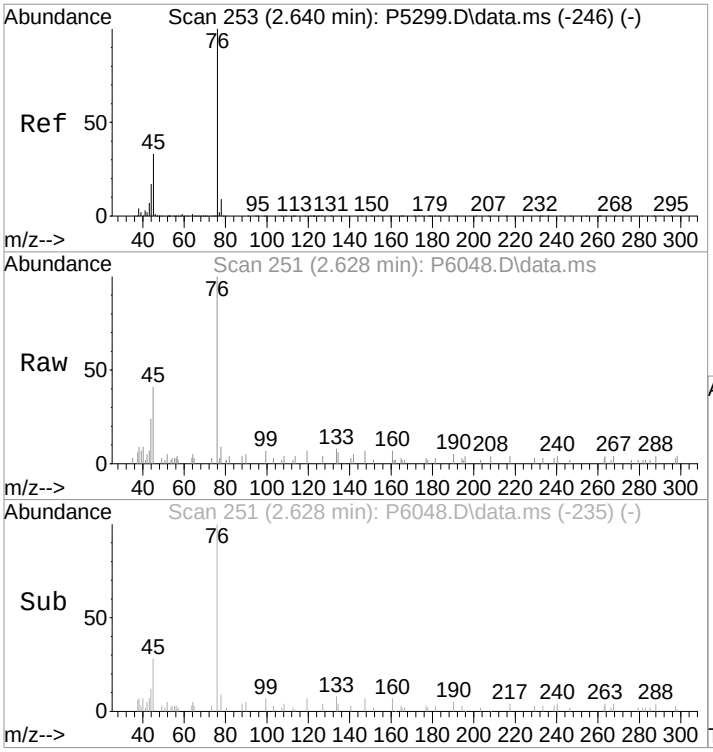


#15
Acetone
Concen: 1.59 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 43 Resp: 2033

Ion	Ratio	Lower	Upper
43	100		
58	26.7	5.3	45.3
42	9.6	0.0	28.7

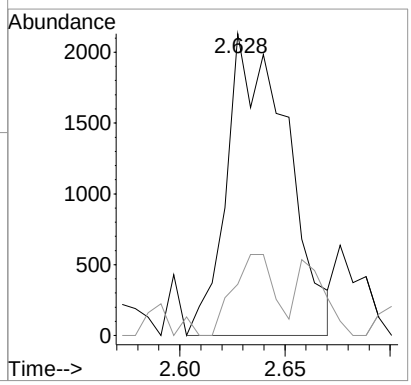


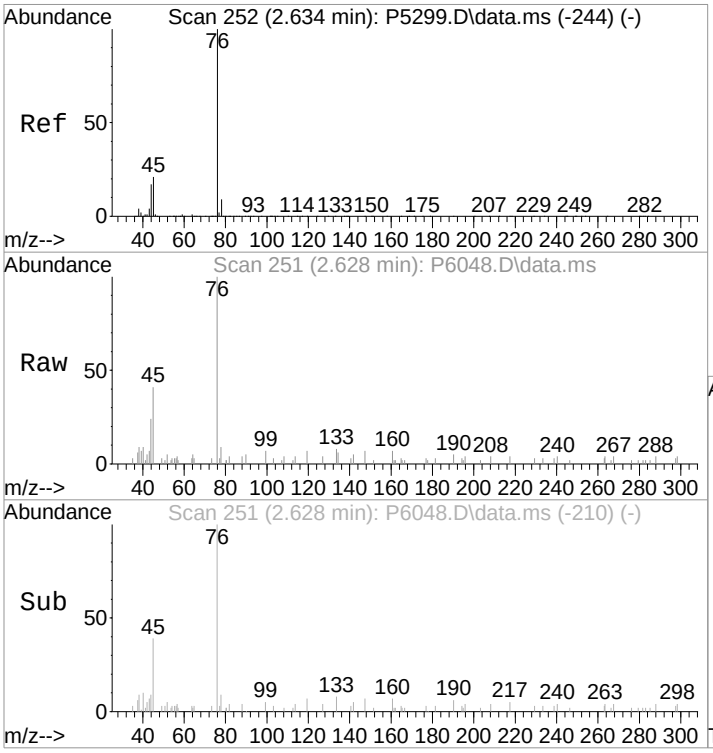


#16
2-Propanol
Concen: 15.67 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.012 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 45 Resp: 4273

Ion	Ratio	Lower	Upper
45	100		
43	16.9	1.6	41.6

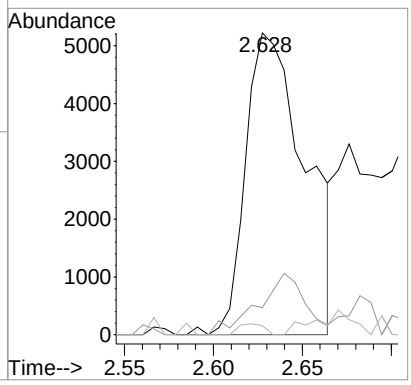


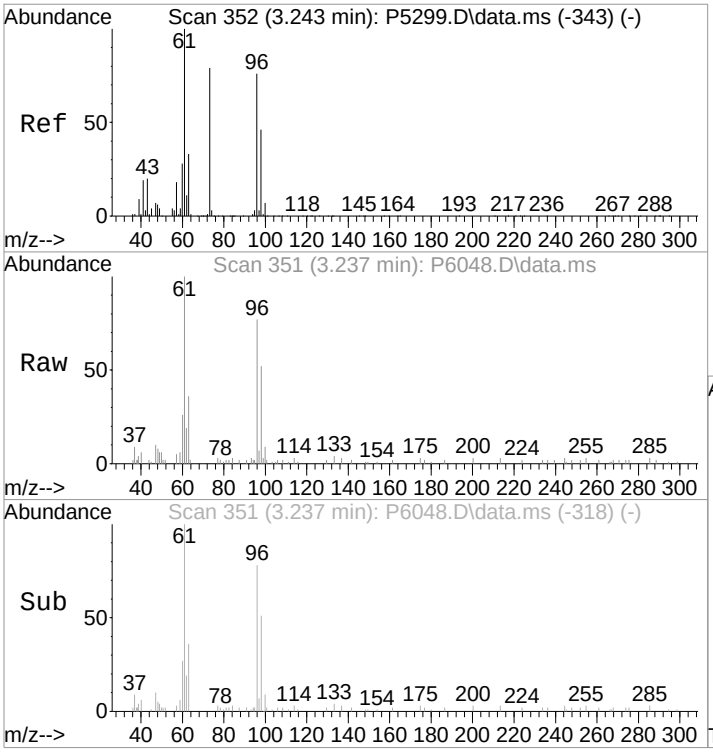


#18
Carbon Disulfide
Concen: 0.71 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 76 Resp: 12195

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	29.3
77	3.0	0.0	22.5

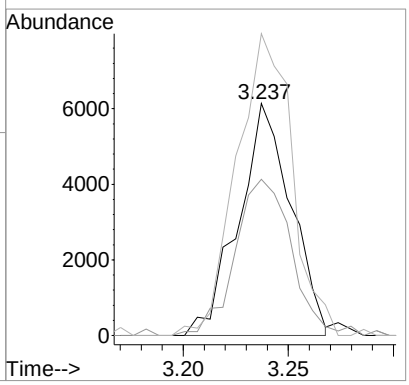


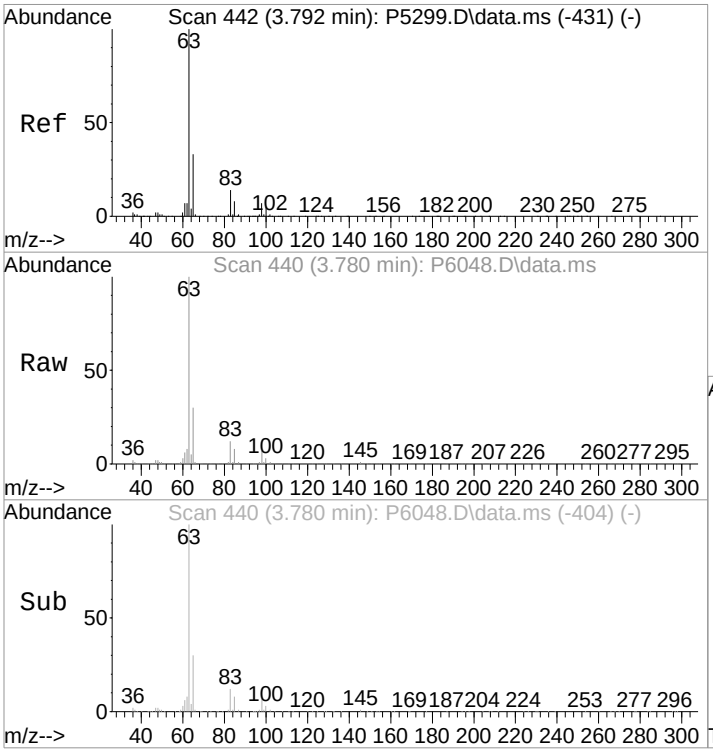


#26
trans-1,2-Dichloroethene
Concen: 1.75 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 96 Resp: 10699

Ion	Ratio	Lower	Upper
96	100		
98	67.3	41.0	81.0
61	130.2	112.4	152.4

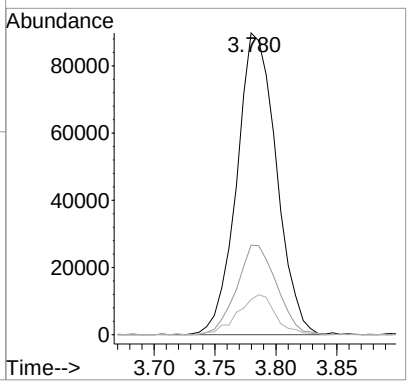


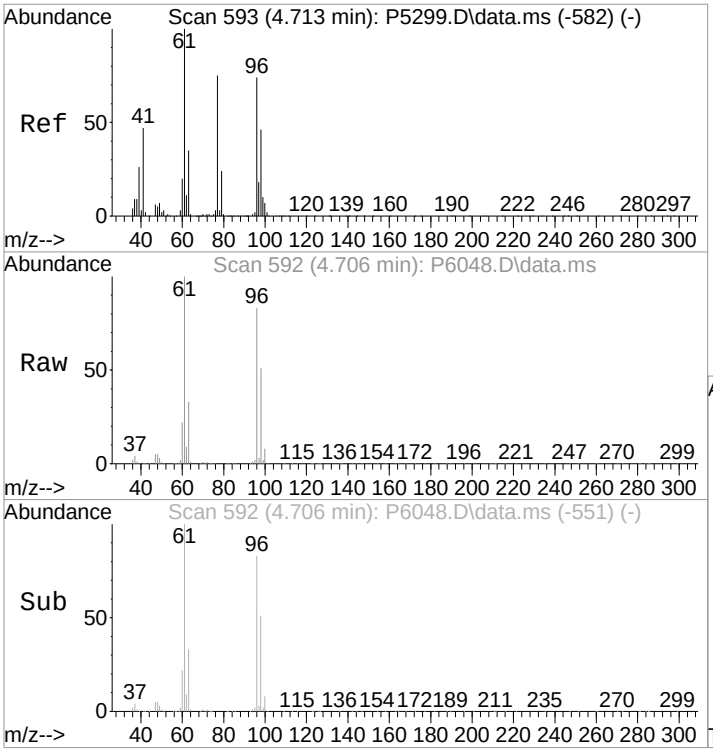


#28
1,1-Diclethane
Concen: 19.95 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 63 Resp: 203085

Ion	Ratio	Lower	Upper
63	100		
65	29.7	12.9	52.9
83	11.7	0.0	33.5

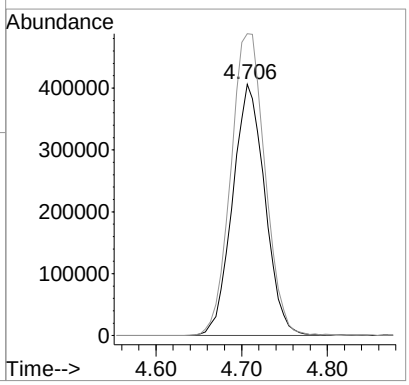


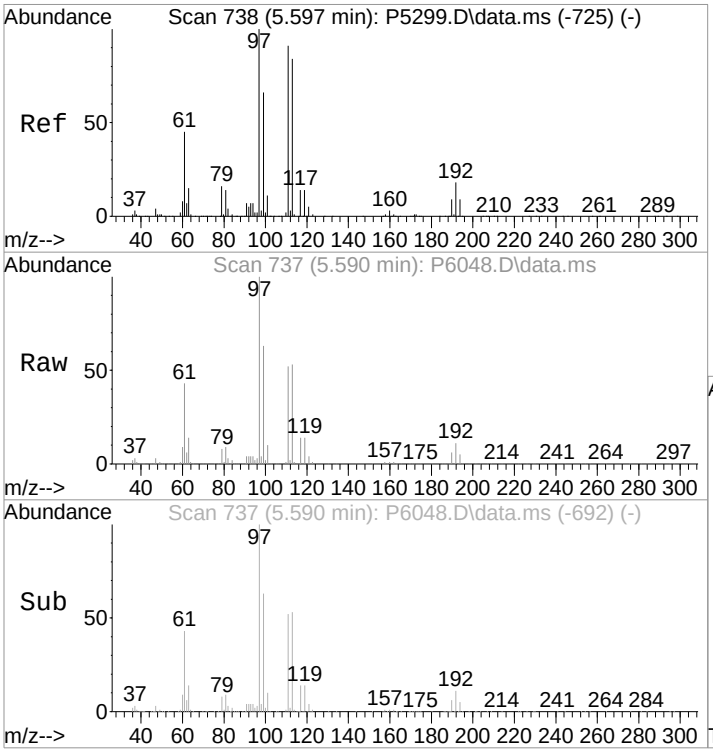


#34
cis-1,2-Dichloroethene
Concen: 170.13 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 96 Resp: 1064353

Ion	Ratio	Lower	Upper
96	100		
61	120.2	114.6	154.6

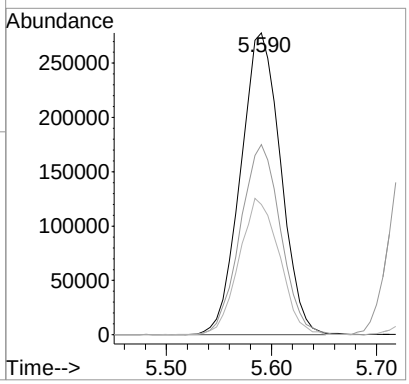


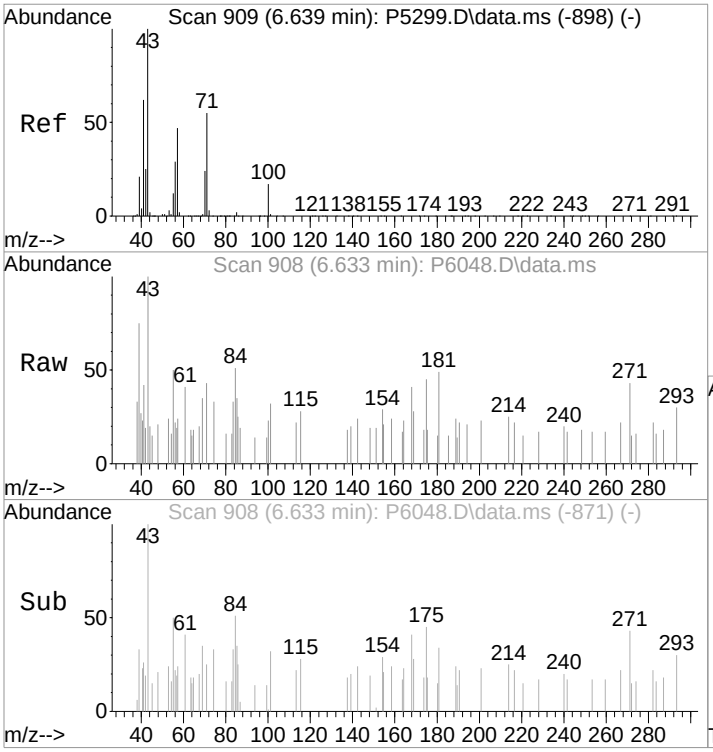


#41
1,1,1-Trichloroethane
Concen: 80.63 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 97 Resp: 736985

Ion	Ratio	Lower	Upper
97	100		
99	63.0	46.2	86.2
61	43.2	25.3	65.3

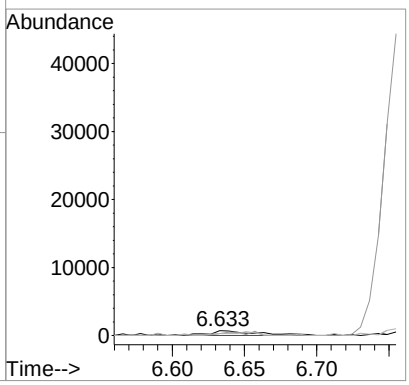


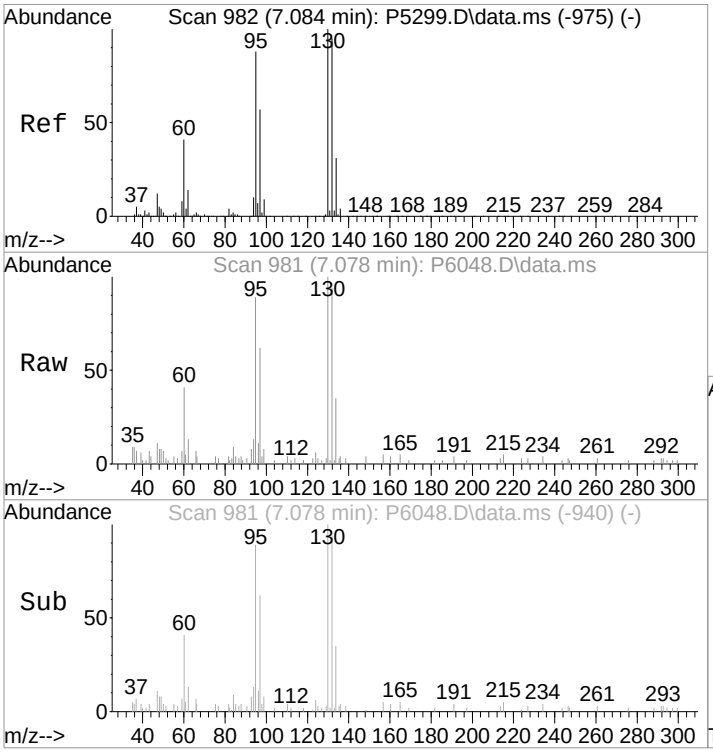


#52
n-Heptane
Concen: 0.20 ppb
RT: 6.633 min Scan# 908
Delta R.T. -0.012 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion: 43 Resp: 1708

Ion	Ratio	Lower	Upper
43	100		
57	42.9	26.8	66.8
71	43.5	34.8	74.8

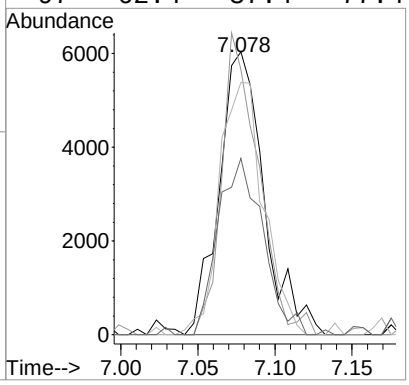


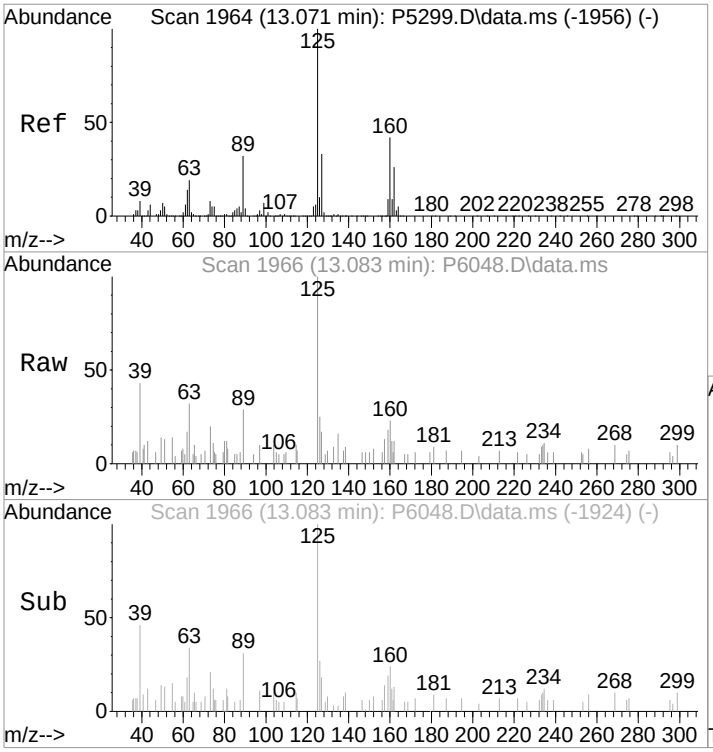


#54
Trichloroethene
Concen: 1.82 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:130 Resp: 12256

Ion	Ratio	Lower	Upper
130	100		
132	93.8	75.2	115.2
95	89.2	68.1	108.1
97	62.4	37.4	77.4

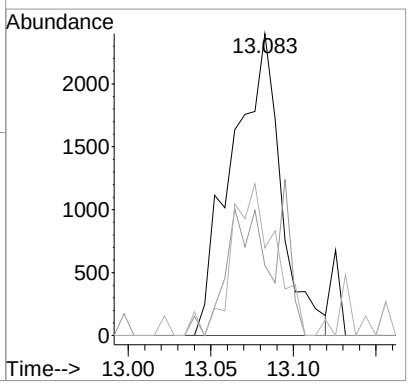


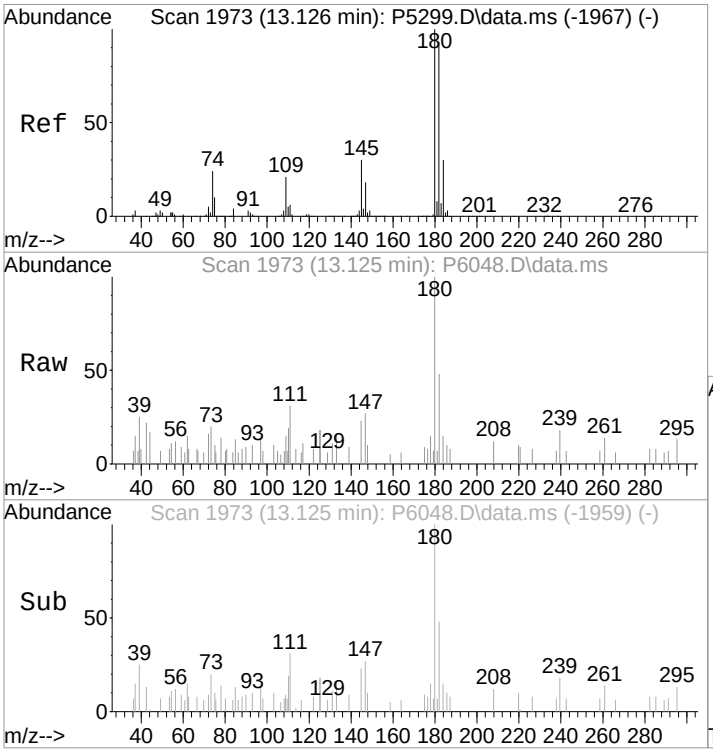


#112
Trielution Dichlorotoluene
Concen: 0.43 ppb
RT: 13.083 min Scan# 1966
Delta R.T. 0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:125 Resp: 4938

Ion	Ratio	Lower	Upper
125	100		
160	23.3	33.6	50.4#
89	29.1	25.8	38.8

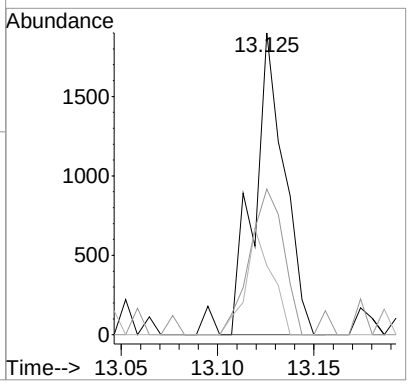


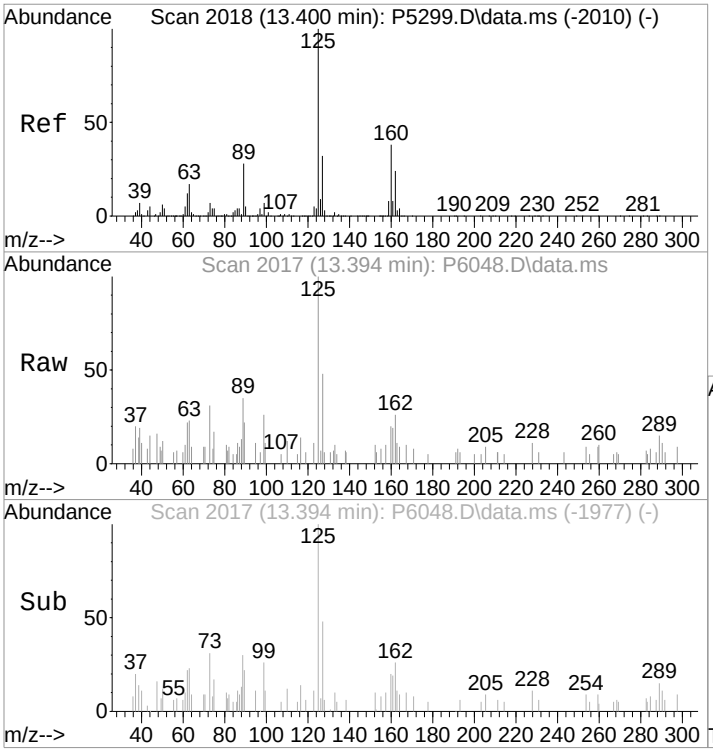


#113
1,3,5 Trichlorobenzene
Concen: 0.21 ppb
RT: 13.125 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:180 Resp: 2137

Ion	Ratio	Lower	Upper
180	100		
182	48.2	74.6	111.8#
145	22.9	23.9	35.9#

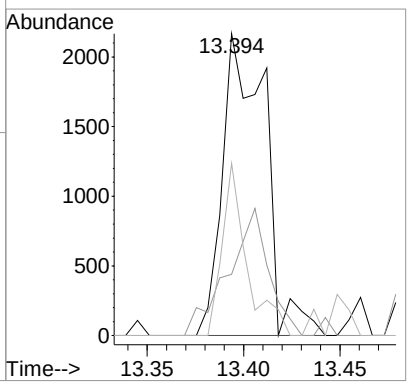


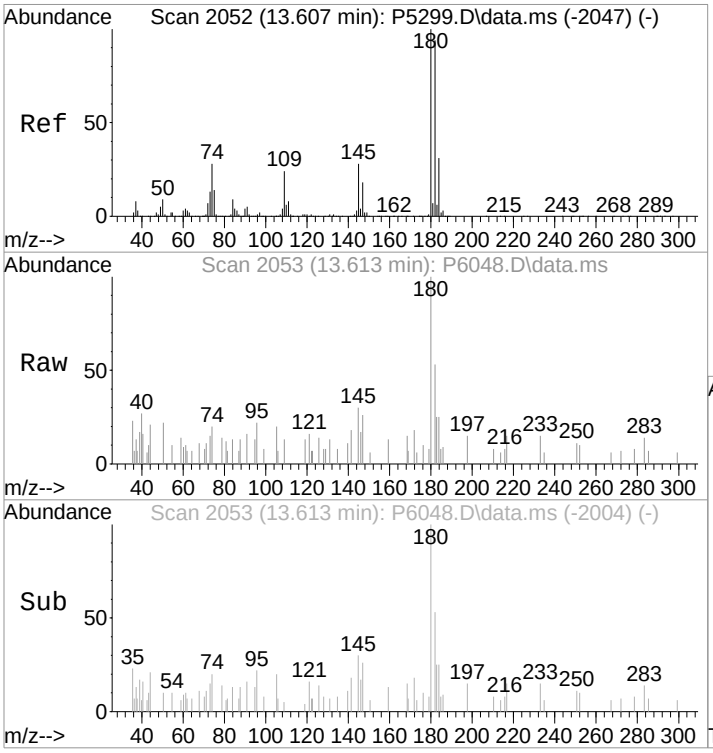


#114
Coelution Dichlorotoluene
Concen: 0.27 ppb
RT: 13.394 min Scan# 2017
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:125 Resp: 3338

Ion	Ratio	Lower	Upper
125	100		
160	20.2	30.2	45.2#
89	57.1	22.7	34.1#

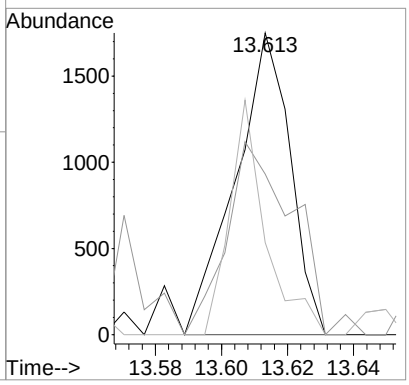


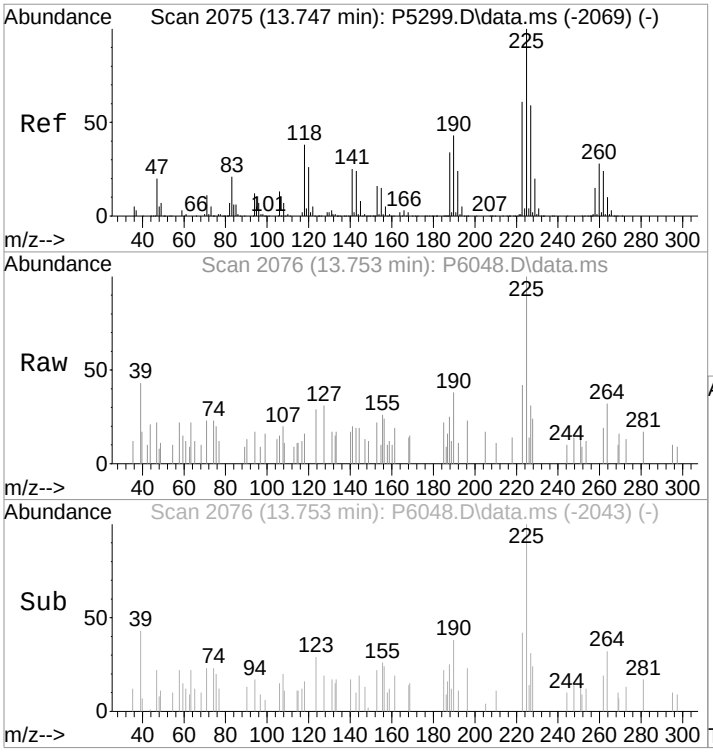


#115
1,2,4-Tcbenzene
Concen: 0.22 ppb
RT: 13.613 min Scan# 2053
Delta R.T. 0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:180 Resp: 2030

Ion	Ratio	Lower	Upper
180	100		
182	53.2	74.1	114.1#
145	30.5	7.8	47.8

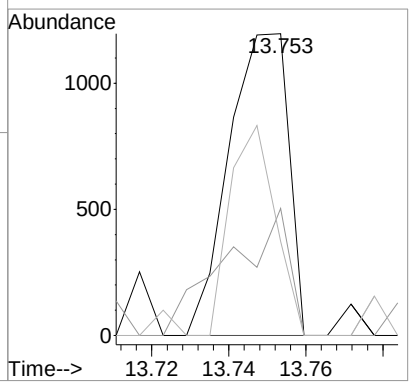


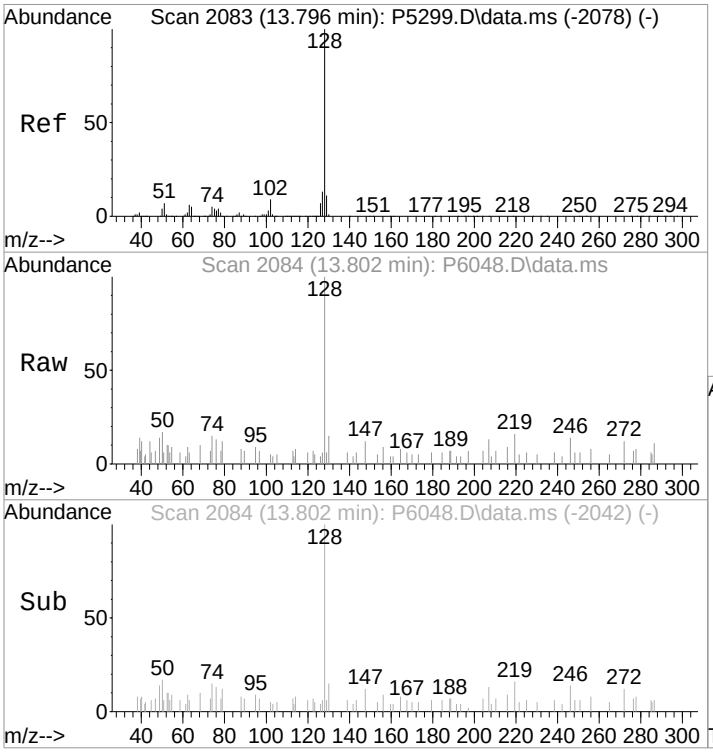


#116
Hexachlorobt
Concen: 0.33 ppb
RT: 13.753 min Scan# 2076
Delta R.T. 0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:225 Resp: 1280

Ion	Ratio	Lower	Upper
225	100		
223	42.1	41.4	81.4
227	31.2	39.1	79.1#

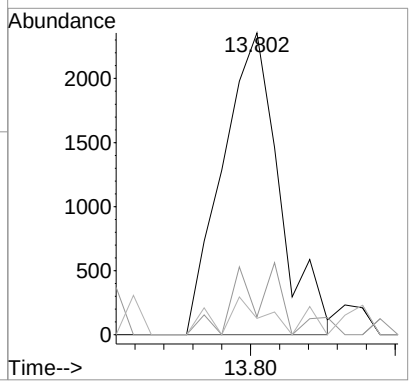


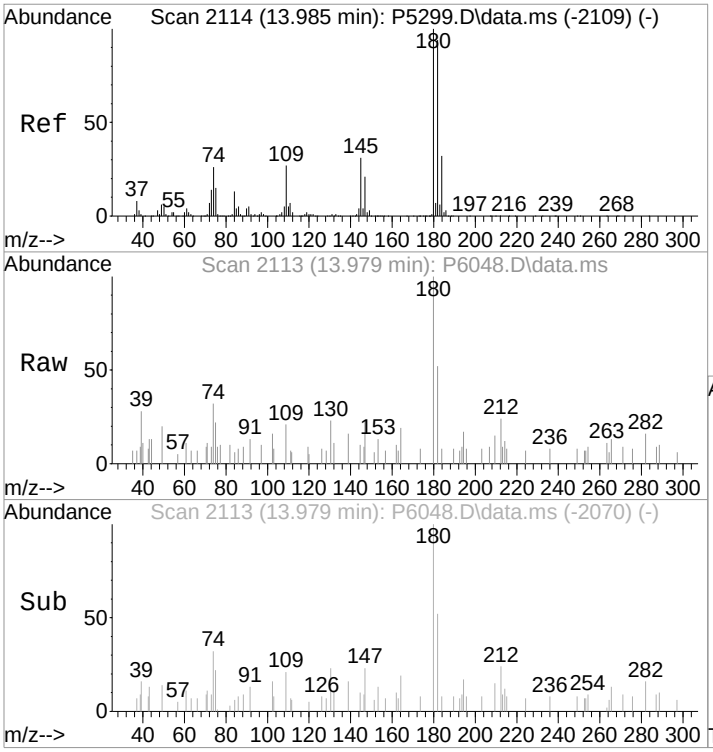


#117
Naphthalen
Concen: 0.20 ppb
RT: 13.802 min Scan# 2084
Delta R.T. -0.000 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:128 Resp: 3222

Ion	Ratio	Lower	Upper
128	100		
127	6.0	0.0	33.2
102	5.4	0.0	29.2

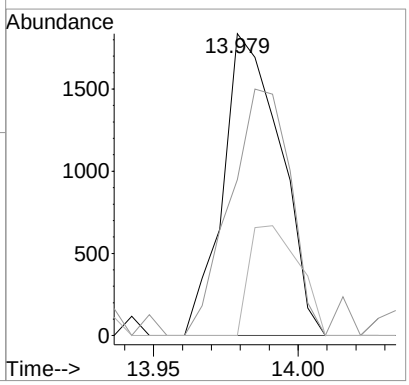


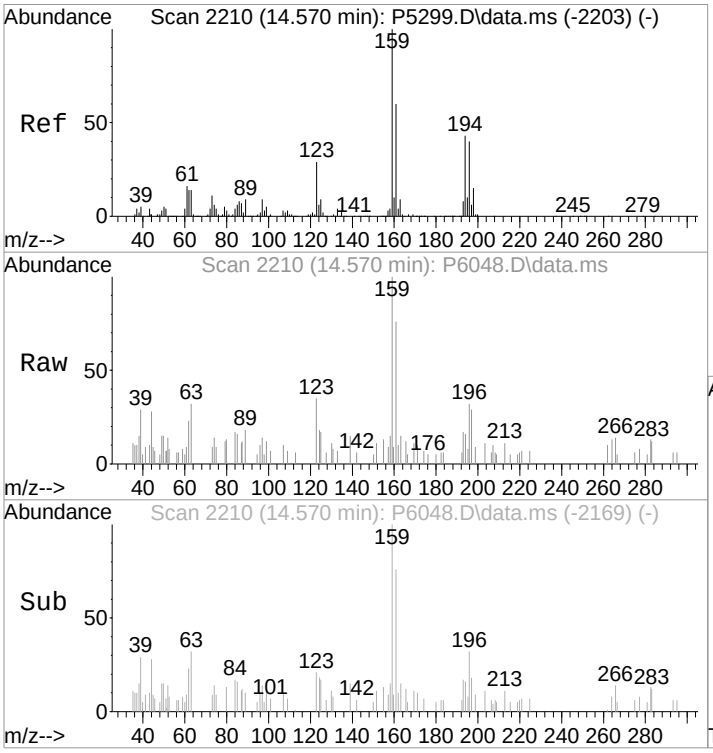


#118
1,2,3-Tclbenzene
Concen: 0.33 ppb
RT: 13.979 min Scan# 2113
Delta R.T. -0.006 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:180 Resp: 2550

Ion	Ratio	Lower	Upper
180	100		
182	51.6	73.9	113.9#
145	0.0	11.2	51.2#

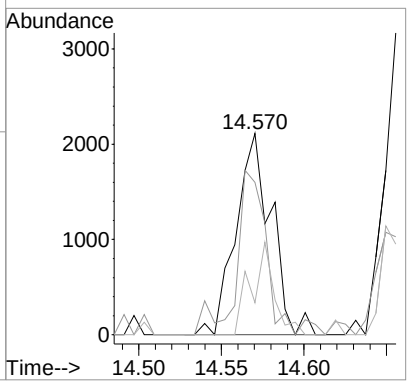


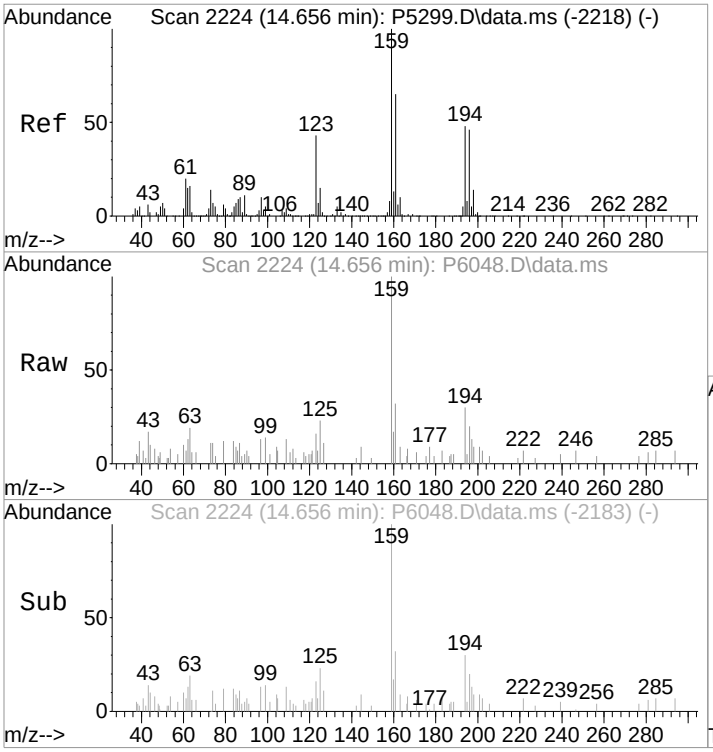


#119
2,4,5-Trichlorotolene
Concen: 0.57 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:159 Resp: 3166

Ion	Ratio	Lower	Upper
159	100		
161	69.6	48.1	72.1
194	14.6	34.5	51.7#

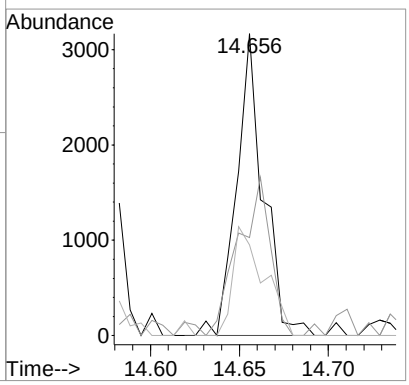




#120
2,3,6-Trichlorotoluene
Concen: 0.65 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6048.D
Acq: 28 Oct 2016 12:13 pm

Tgt Ion:159 Resp: 3299

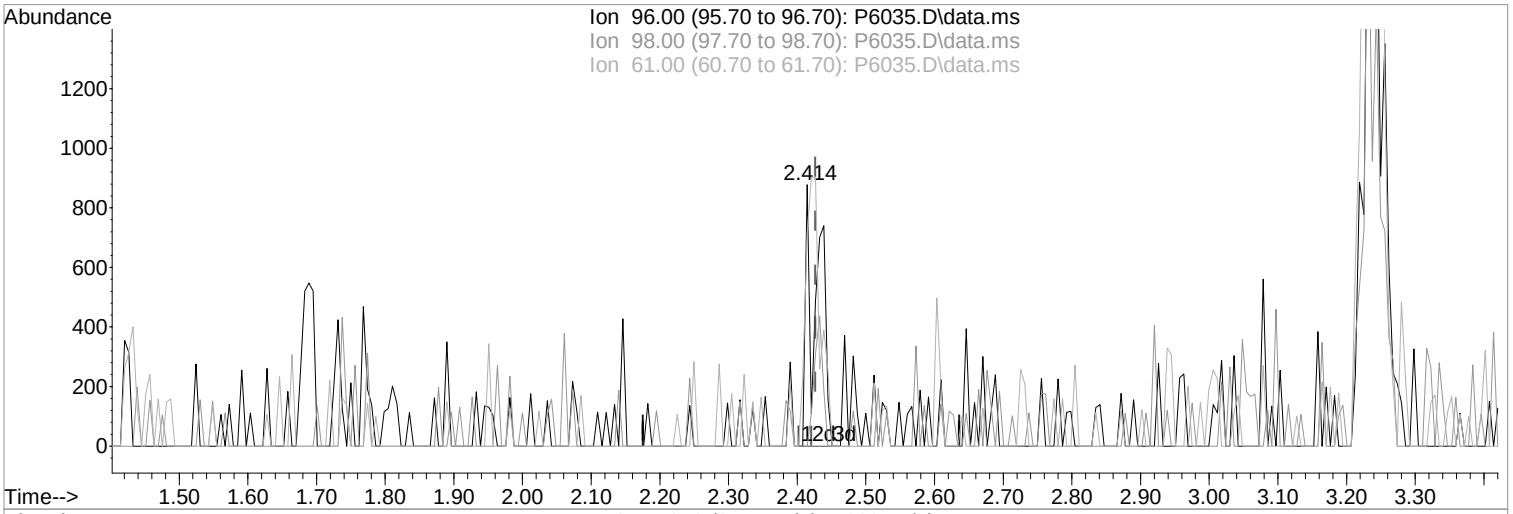
Ion	Ratio	Lower	Upper
159	100		
161	32.4	52.3	78.5#
194	30.0	38.6	57.8#

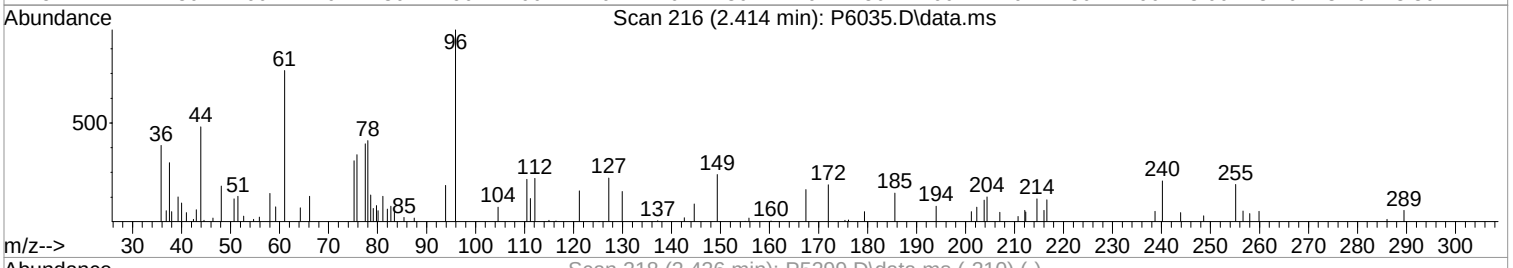


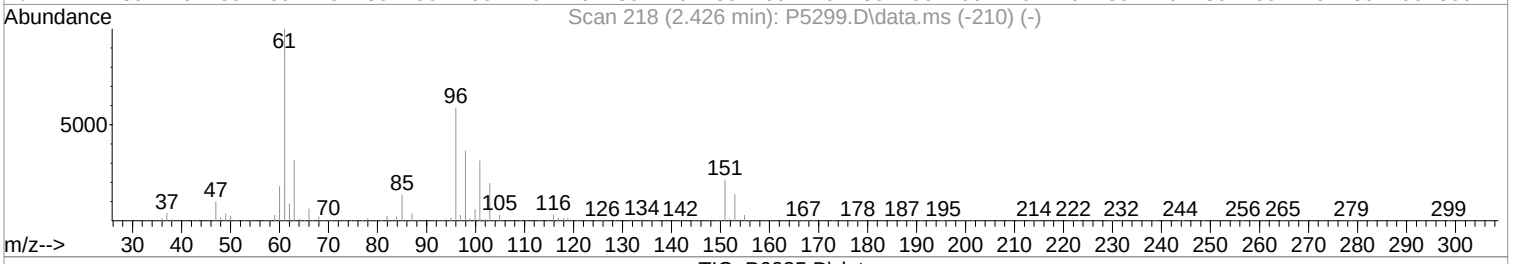
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6035.D
Acq On : 28 Oct 2016 4:54 am
Operator : K.Ruest
Sample : R1611185-027|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 28 09:10:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6035.D\data.ms

(13) 1,1-Diclethene (P)

2.414min (-0.012) 0.21 ppb m

response 1125

Ion	Exp%	Act%
96.00	100	100
98.00	61.80	0.00#
61.00	170.10	81.19#
0.00	0.00	0.00

Manual Integration:

After

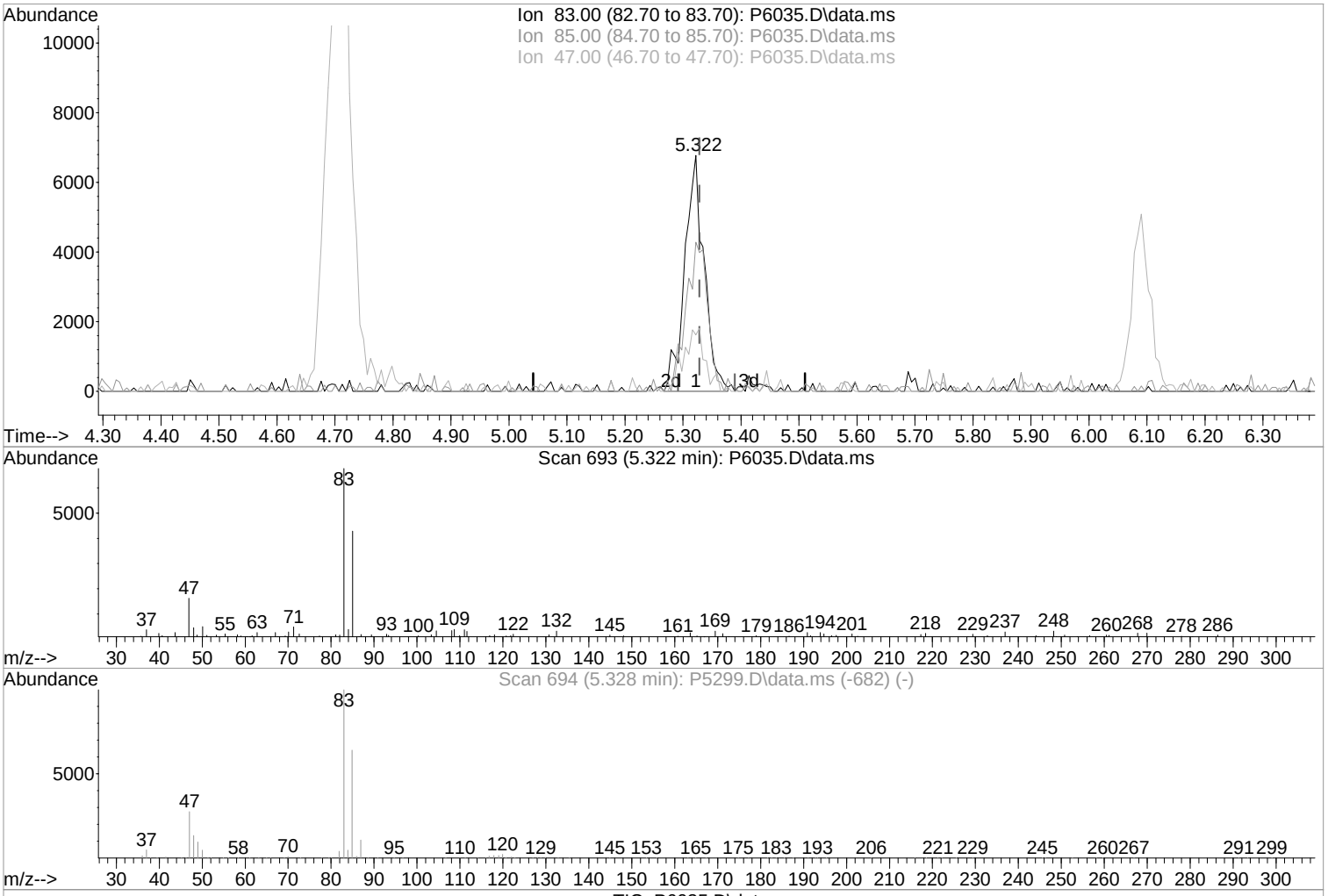
Split Peak

10/28/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6035.D
Acq On : 28 Oct 2016 4:54 am
Operator : K.Ruest
Sample : R1611185-027|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 28 09:10:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6035.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 1.61 ppb m

response 15739

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	63.20
47.00	27.40	23.99
0.00	0.00	0.00

Manual Integration:

After

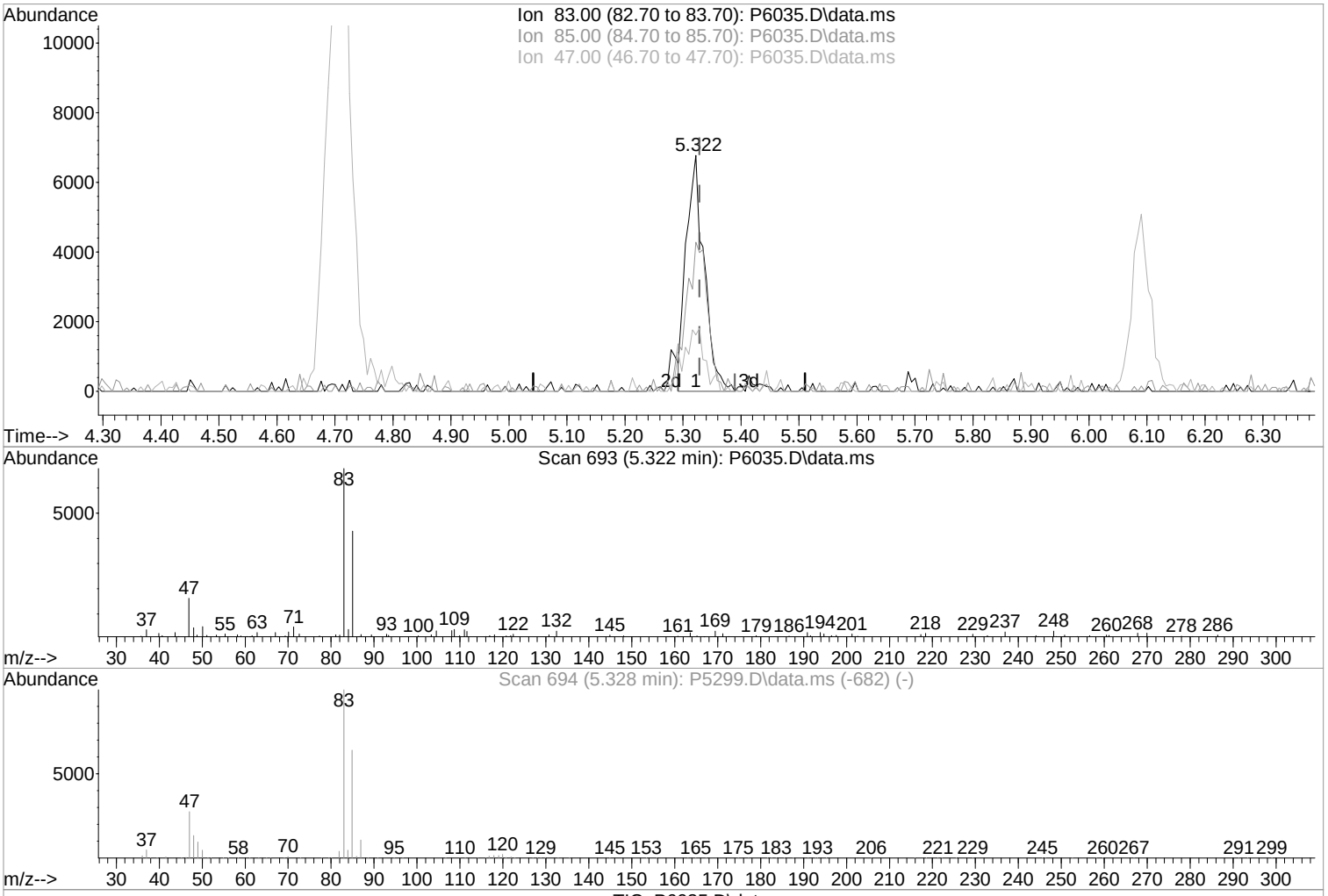
Split Peak

10/28/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6035.D
Acq On : 28 Oct 2016 4:54 am
Operator : K.Ruest
Sample : R1611185-027|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 28 09:10:02 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6035.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 1.49 ppb

response 14620

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	63.20
47.00	27.40	23.99
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6035.D
Acq On : 28 Oct 2016 4:54 am
Operator : K.Ruest
Sample : R1611185-027|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 28 16:51:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

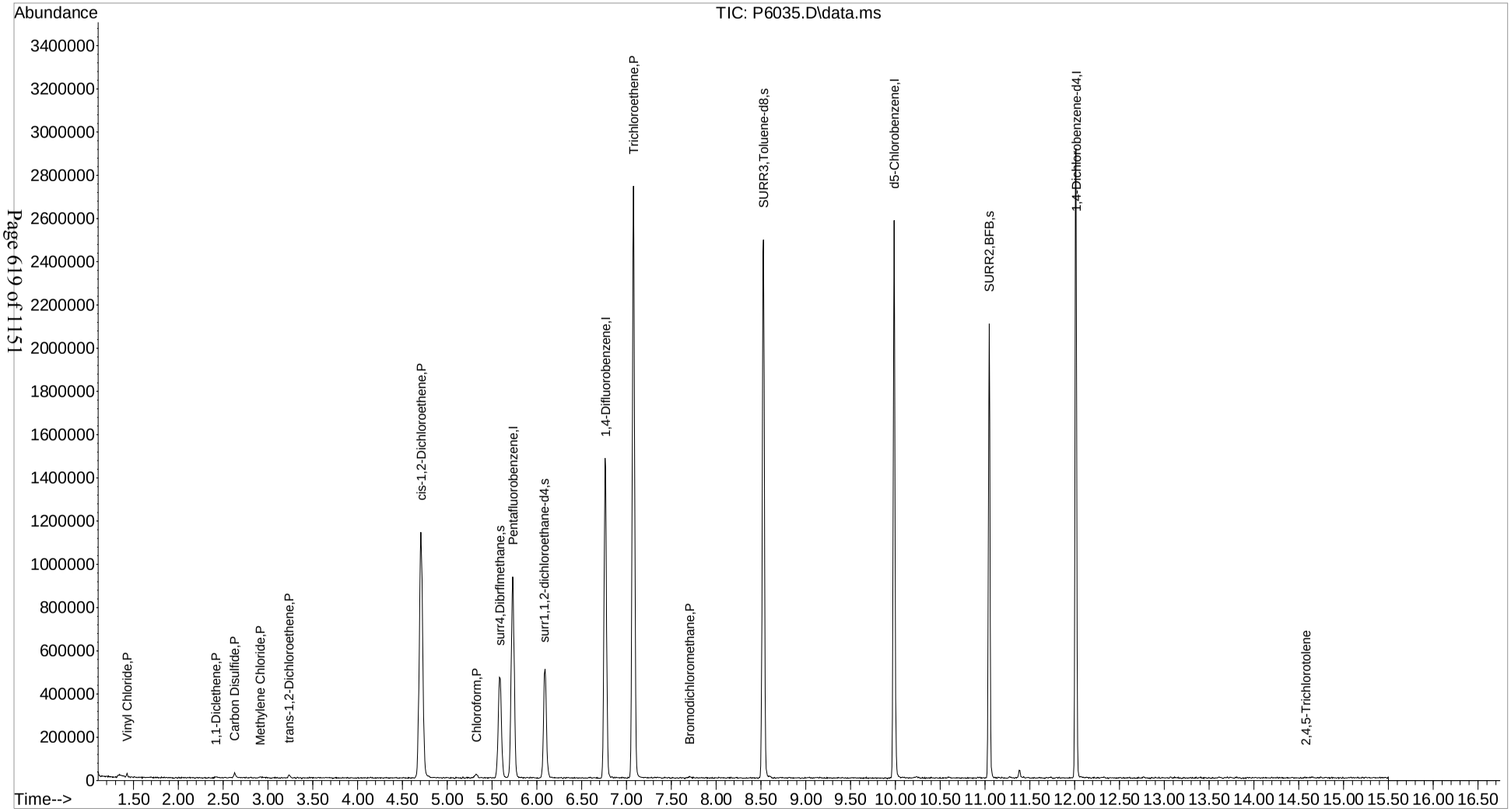
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	774962	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1259049	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1143322	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	589038	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	360548	53.66	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.32%				
48) surr1,1,2-dichloroetha...	6.084	65	406132	53.21	ppb		-0.01
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.42%				
65) SURR3,Toluene-d8	8.529	98	1549235	56.26	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.52%				
70) SURR2,BFB	11.047	95	552667	51.45	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.90%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	7443	1.21	ppb	#	24
13) 1,1-Diclethene	2.414	96	1125m	0.21	ppb		
18) Carbon Disulfide	2.628	76	23917	1.41	ppb		95
22) Methylene Chloride	2.908	84	2438	0.43	ppb	#	68
26) trans-1,2-Dichloroethene	3.237	96	4639	0.77	ppb	#	84
34) cis-1,2-Dichloroethene	4.707	96	710430	114.88	ppb		98
40) Chloroform	5.322	83	15739m	1.61	ppb		
54) Trichloroethene	7.078	130	954226	143.54	ppb		93
60) Bromodichloromethane	7.700	83	3266	0.41	ppb		90
119) 2,4,5-Trichlorotolene	14.577	159	1320	0.24	ppb	#	40

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

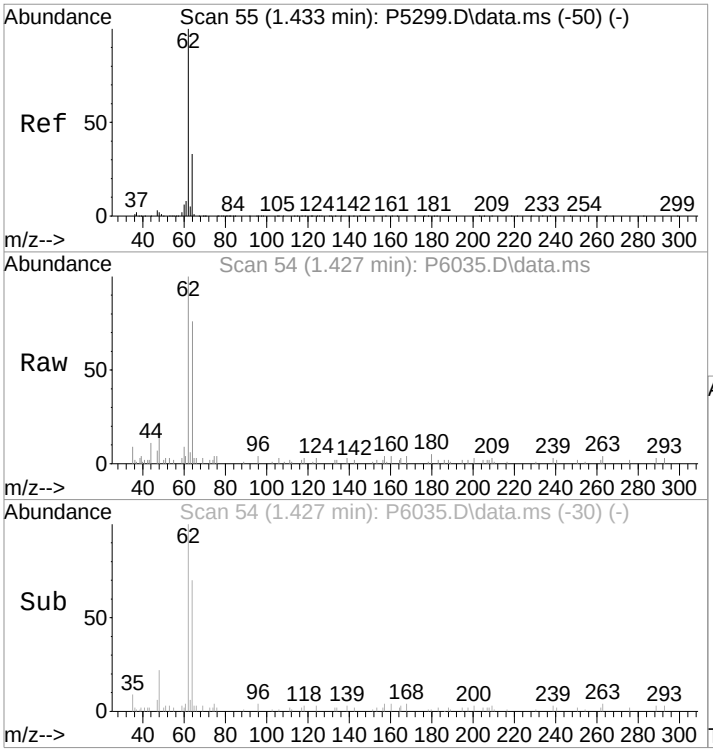
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6035.D
Acq On : 28 Oct 2016 4:54 am
Operator : K.Ruest
Sample : R1611185-027|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 28 16:51:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



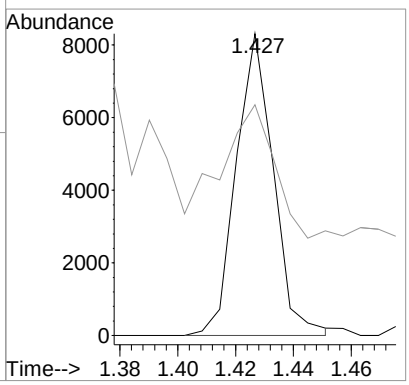
1st 10/31/16
2nd 10/31/16

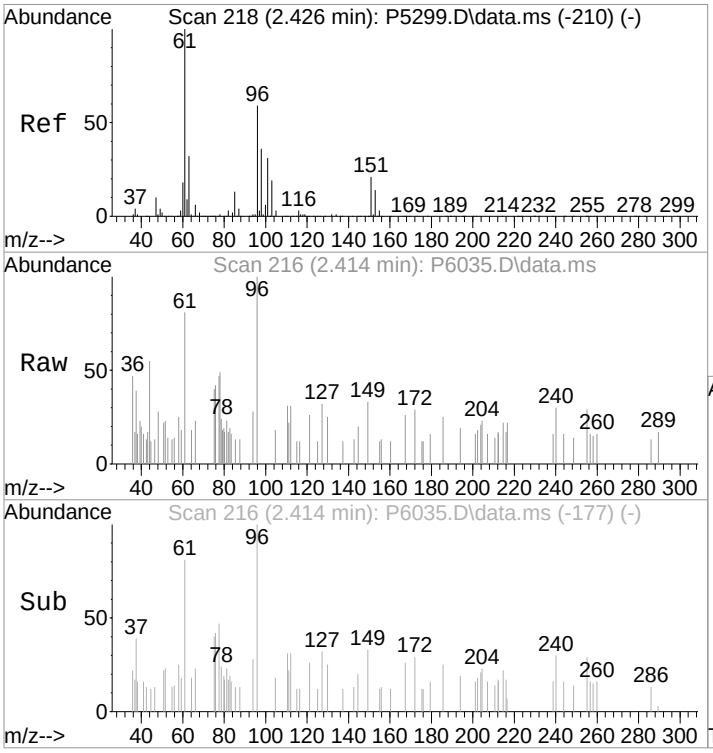


#4
Vinyl Chloride
Concen: 1.21 ppb
RT: 1.427 min Scan# 54
Delta R.T. 0.000 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 62 Resp: 7443

Ion	Ratio	Lower	Upper
62	100		
64	76.4	13.1	53.1#

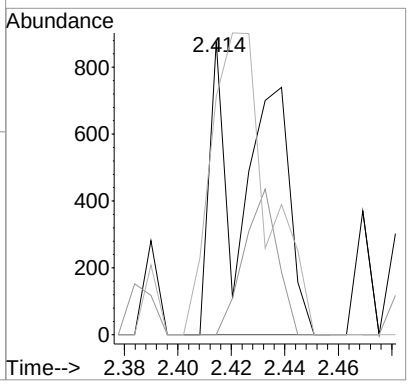


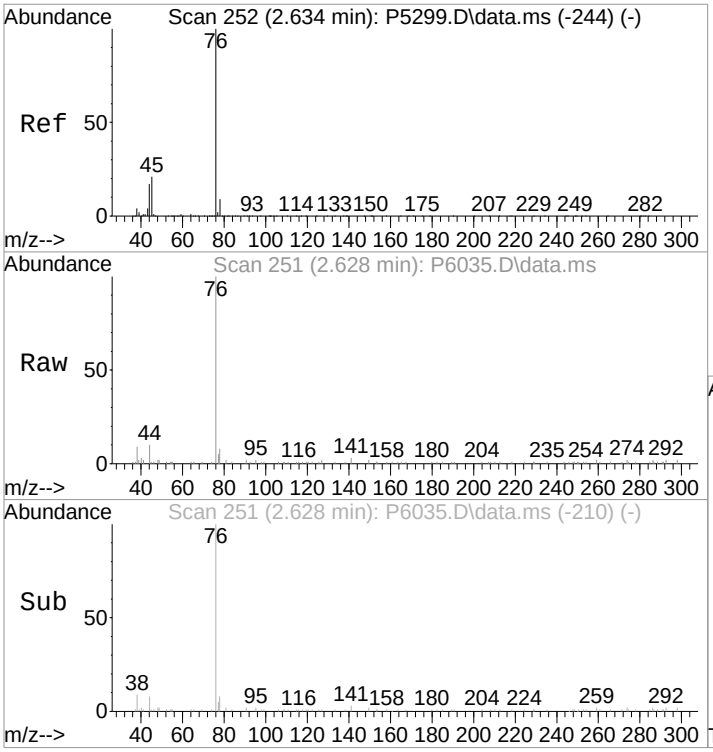


#13
1,1-Diclethene
Concen: 0.21 ppb m
RT: 2.414 min Scan# 216
Delta R.T. -0.012 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 96 Resp: 1125

Ion	Ratio	Lower	Upper
96	100		
98	0.0	41.8	81.8#
61	81.2	150.1	190.1#

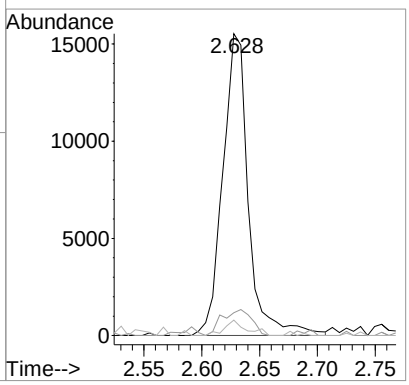


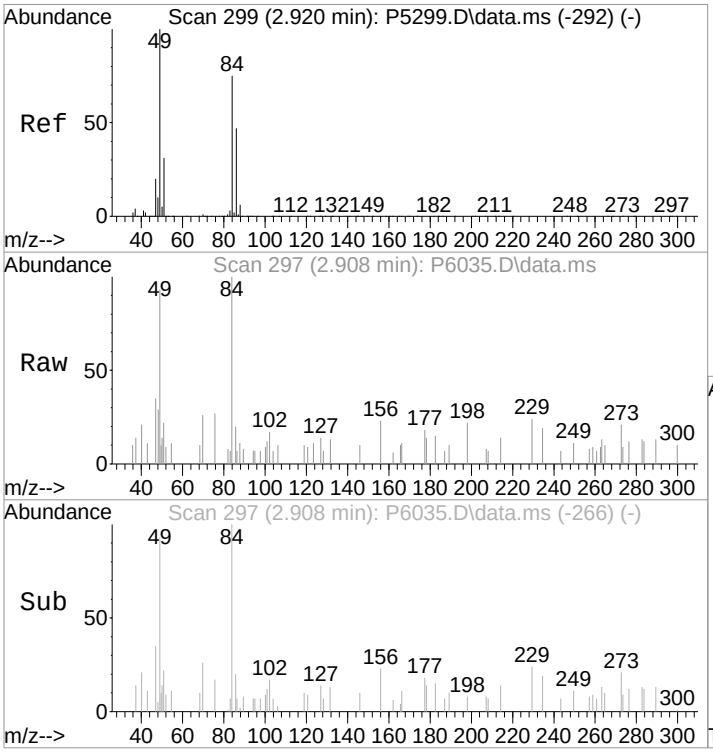


#18
Carbon Disulfide
Concen: 1.41 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 76 Resp: 23917

Ion	Ratio	Lower	Upper
76	100		
78	7.6	0.0	29.3
77	5.2	0.0	22.5

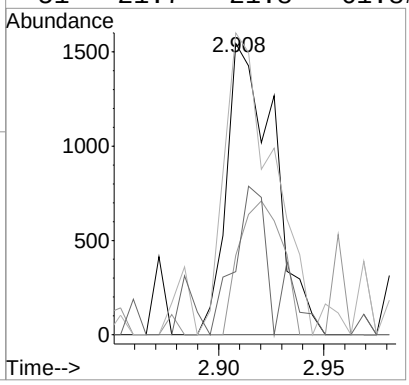


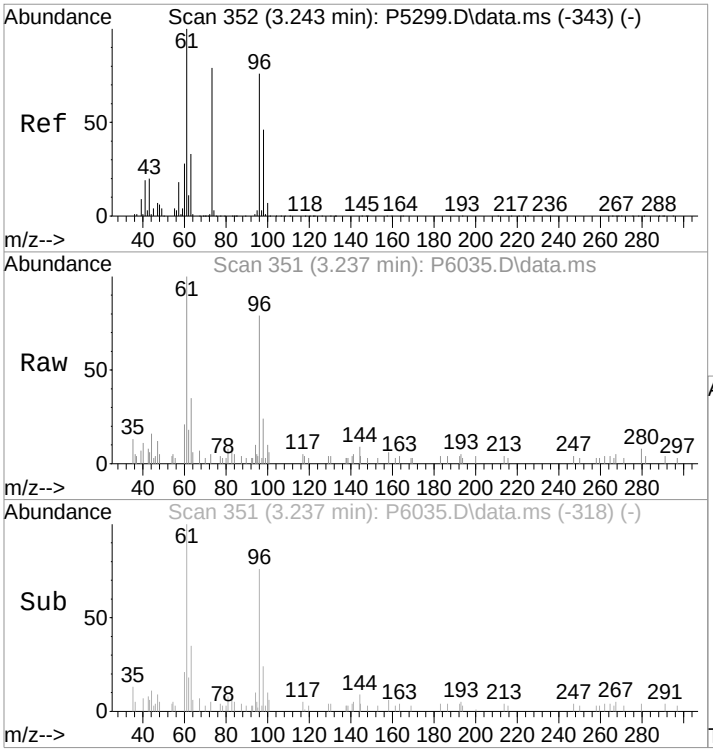


#22
Methylene Chloride
Concen: 0.43 ppb
RT: 2.908 min Scan# 297
Delta R.T. -0.012 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 84 Resp: 2438

Ion	Ratio	Lower	Upper
84	100		
86	27.3	42.8	82.8#
49	103.7	113.9	153.9#
51	21.7	21.8	61.8#

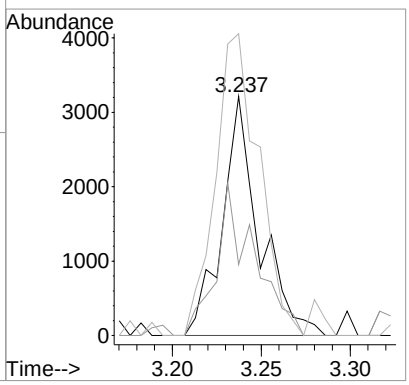


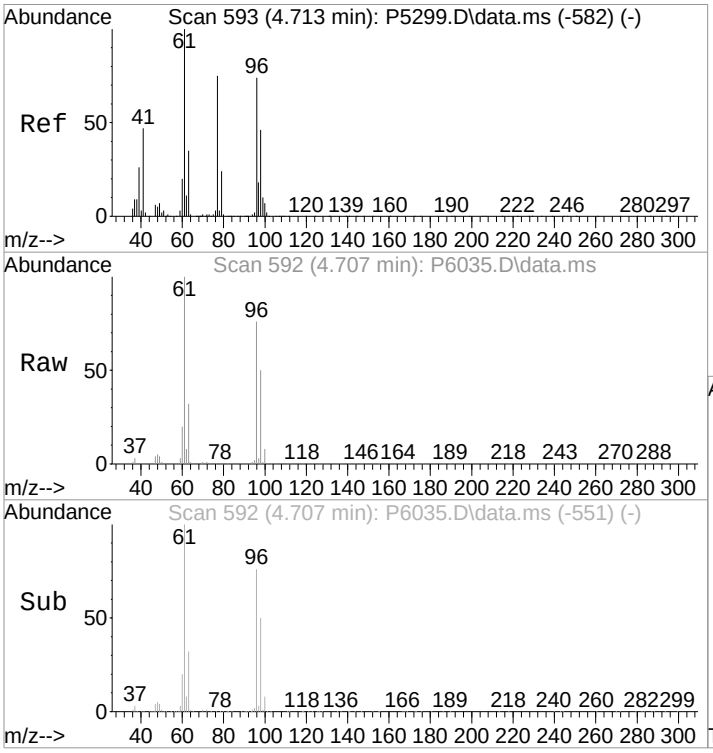


#26
trans-1,2-Dichloroethene
Concen: 0.77 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 96 Resp: 4639

Ion	Ratio	Lower	Upper
96	100		
98	29.8	41.0	81.0#
61	126.3	112.4	152.4

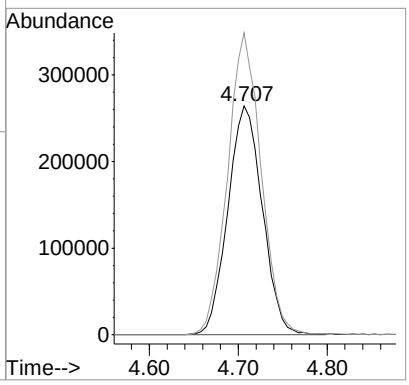


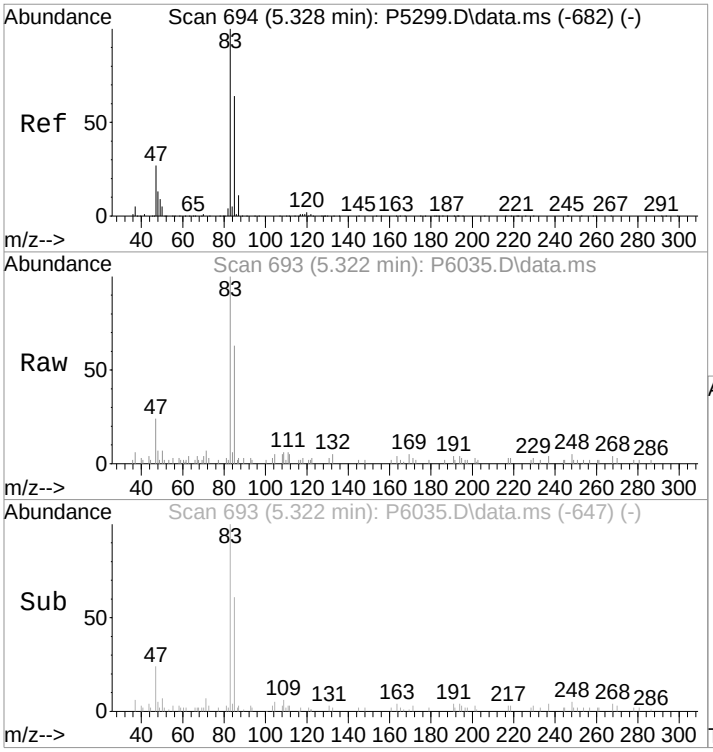


#34
cis-1,2-Dichloroethene
Concen: 114.88 ppb
RT: 4.707 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 96 Resp: 710430

Ion	Ratio	Lower	Upper
96	100		
61	131.9	114.6	154.6

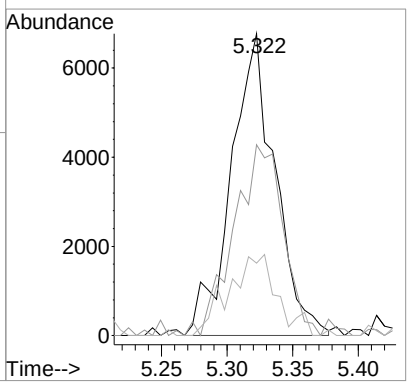


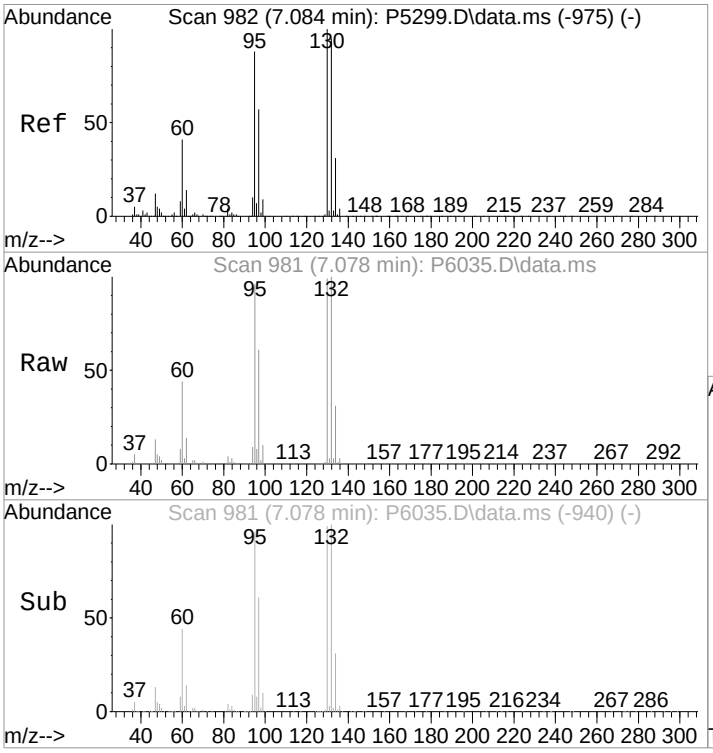


#40
Chloroform
Concen: 1.61 ppb m
RT: 5.322 min Scan# 693
Delta R.T. -0.006 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 83 Resp: 15739

Ion	Ratio	Lower	Upper
83	100		
85	63.2	44.1	84.1
47	24.0	7.4	47.4

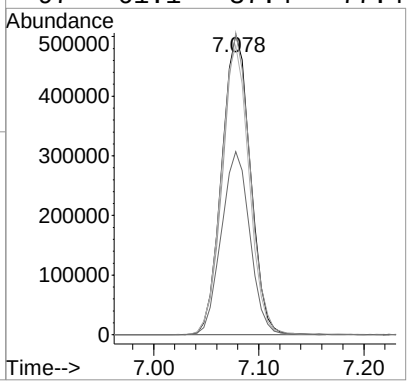


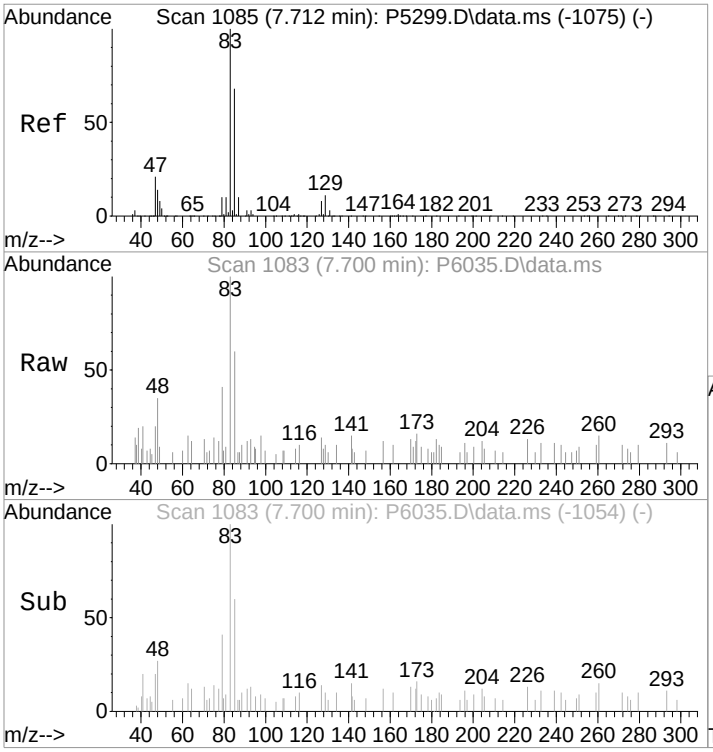


#54
Trichloroethene
Concen: 143.54 ppb
RT: 7.078 min Scan# 981
Delta R.T. 0.000 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion:130 Resp: 954226

Ion	Ratio	Lower	Upper
130	100		
132	100.7	75.2	115.2
95	96.4	68.1	108.1
97	61.1	37.4	77.4

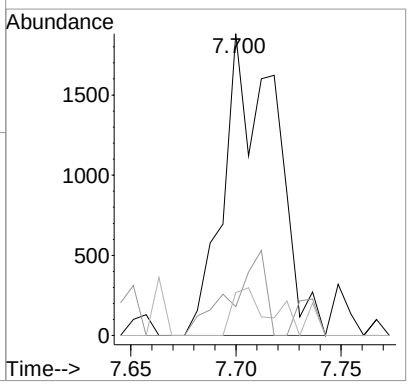


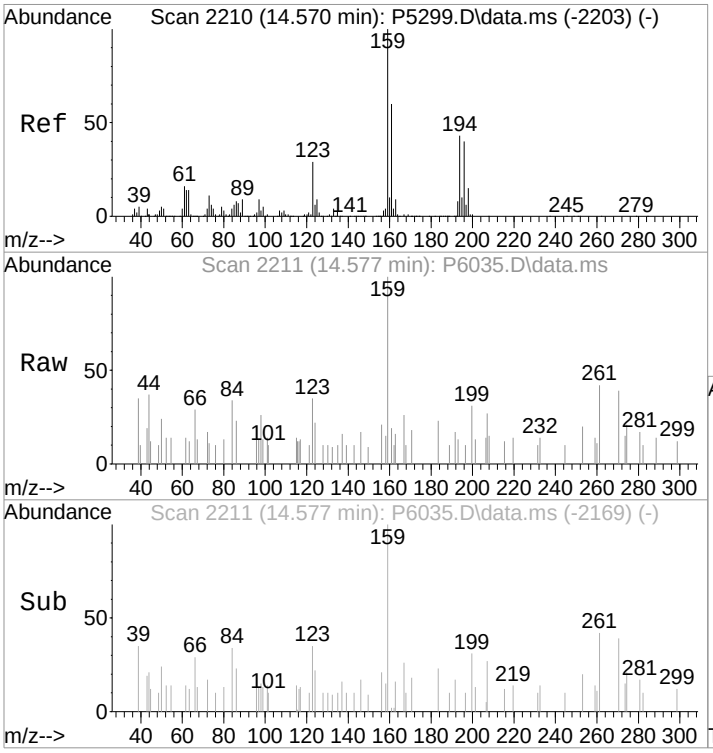


#60
Bromodichloromethane
Concen: 0.41 ppb
RT: 7.700 min Scan# 1083
Delta R.T. -0.012 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion: 83 Resp: 3266

Ion	Ratio	Lower	Upper
83	100		
129	9.6	0.0	31.2
127	14.3	0.0	28.0

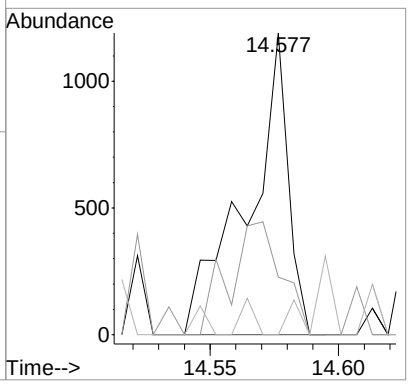




#119
2,4,5-Trichlorotolene
Concen: 0.24 ppb
RT: 14.577 min Scan# 2211
Delta R.T. 0.006 min
Lab File: P6035.D
Acq: 28 Oct 2016 4:54 am

Tgt Ion:159 Resp: 1320

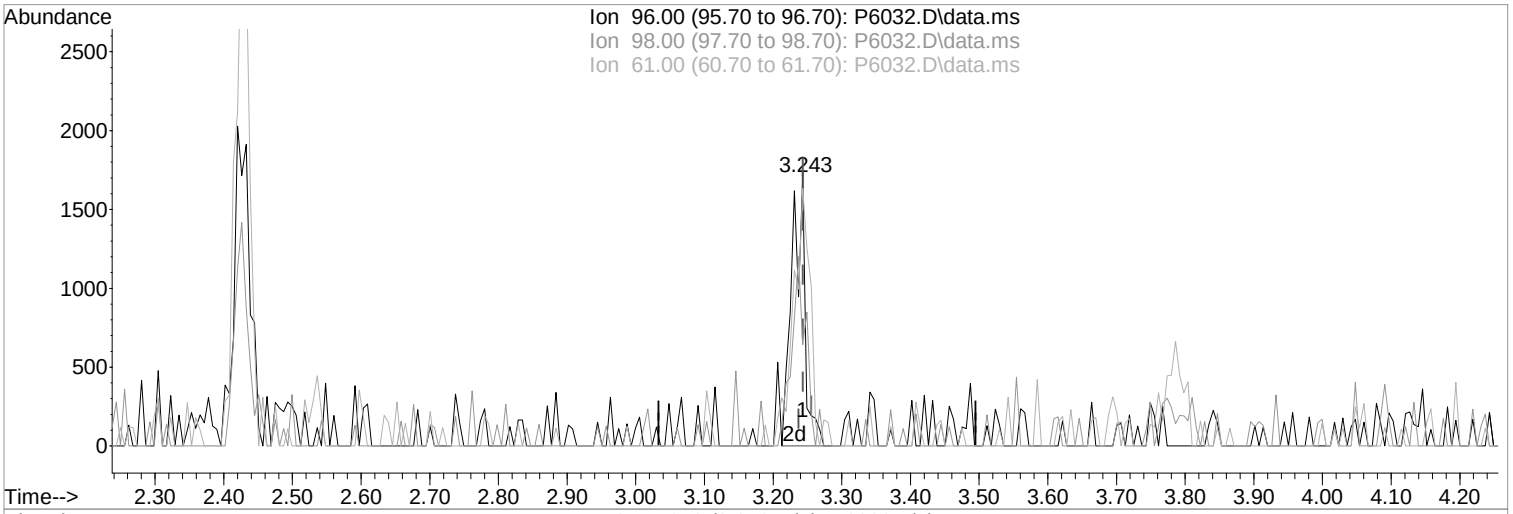
Ion	Ratio	Lower	Upper
159	100		
161	19.1	48.1	72.1#
194	0.0	34.5	51.7#

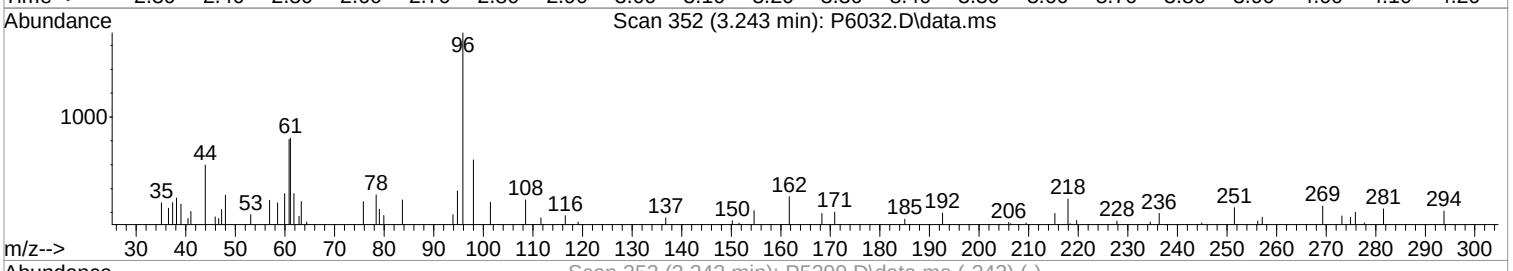


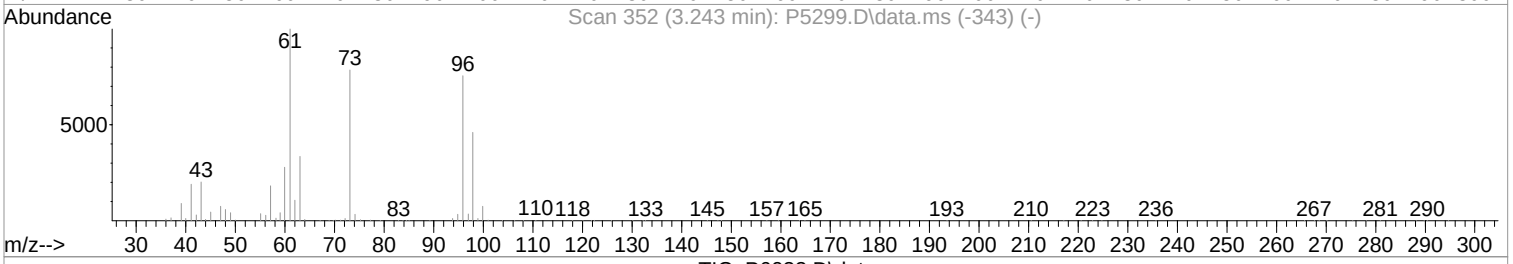
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6032.D
Acq On : 28 Oct 2016 3:24 am
Operator : K.Ruest
Sample : R1611185-028|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 28 09:07:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6032.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.38 ppb m

response 2308

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	37.57#
61.00	132.40	48.18#
0.00	0.00	0.00

Manual Integration:

After

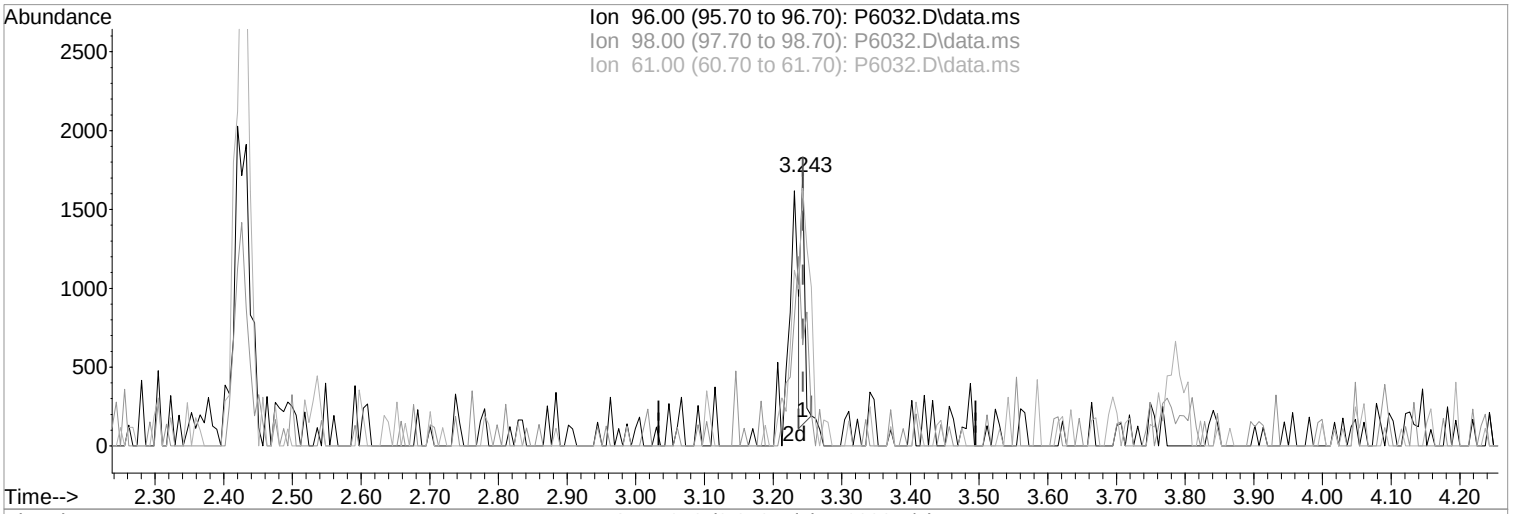
Split Peak

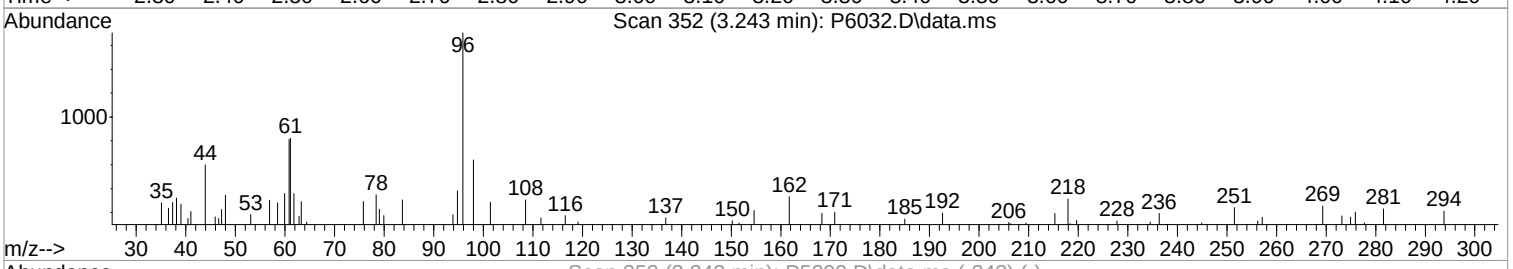
10/28/16

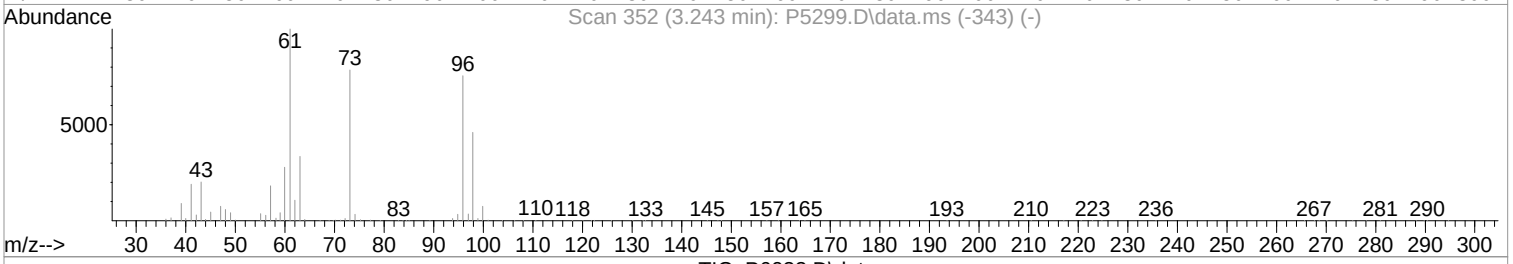
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6032.D
Acq On : 28 Oct 2016 3:24 am
Operator : K.Ruest
Sample : R1611185-028|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 28 09:07:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6032.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.243min (-0.000) 0.10 ppb

response 616

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	37.57#
61.00	132.40	95.84#
0.00	0.00	0.00

Manual Integration:

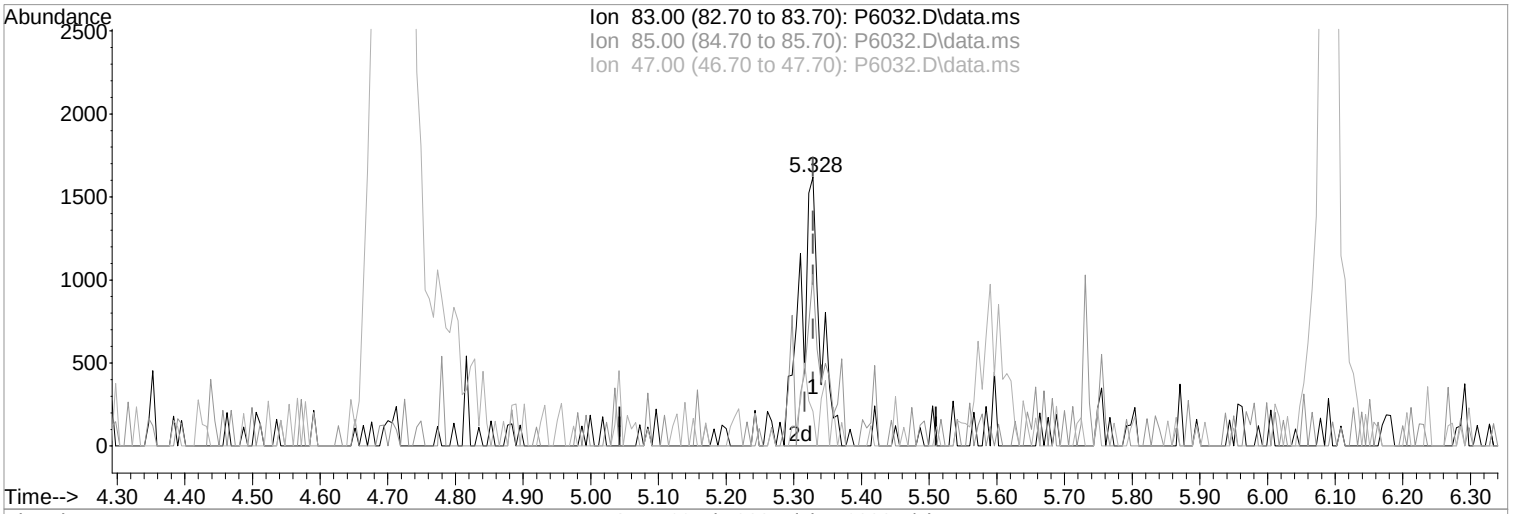
Before

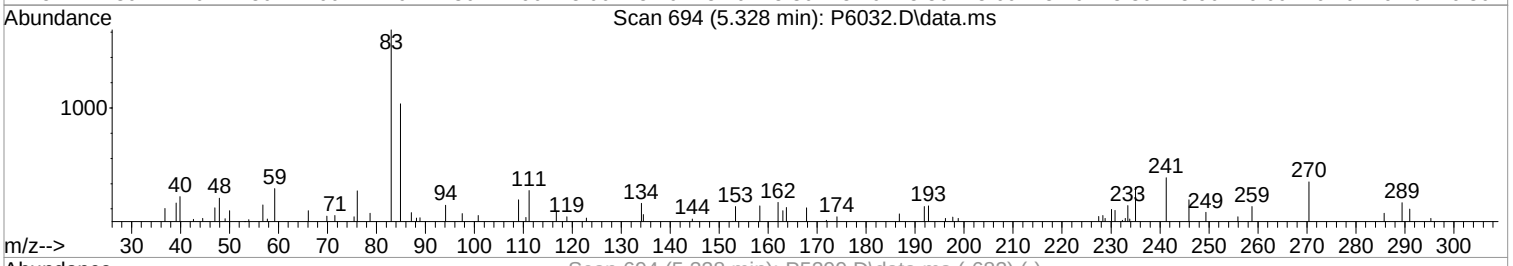
10/28/16

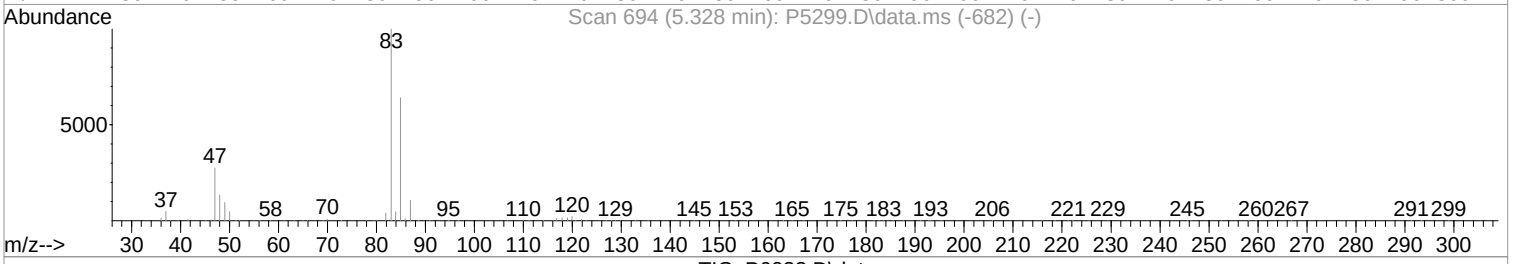
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6032.D
Acq On : 28 Oct 2016 3:24 am
Operator : K.Ruest
Sample : R1611185-028|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 28 09:07:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6032.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.34 ppb m

response 3336

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	63.77
47.00	27.40	12.96
0.00	0.00	0.00

Manual Integration:

After

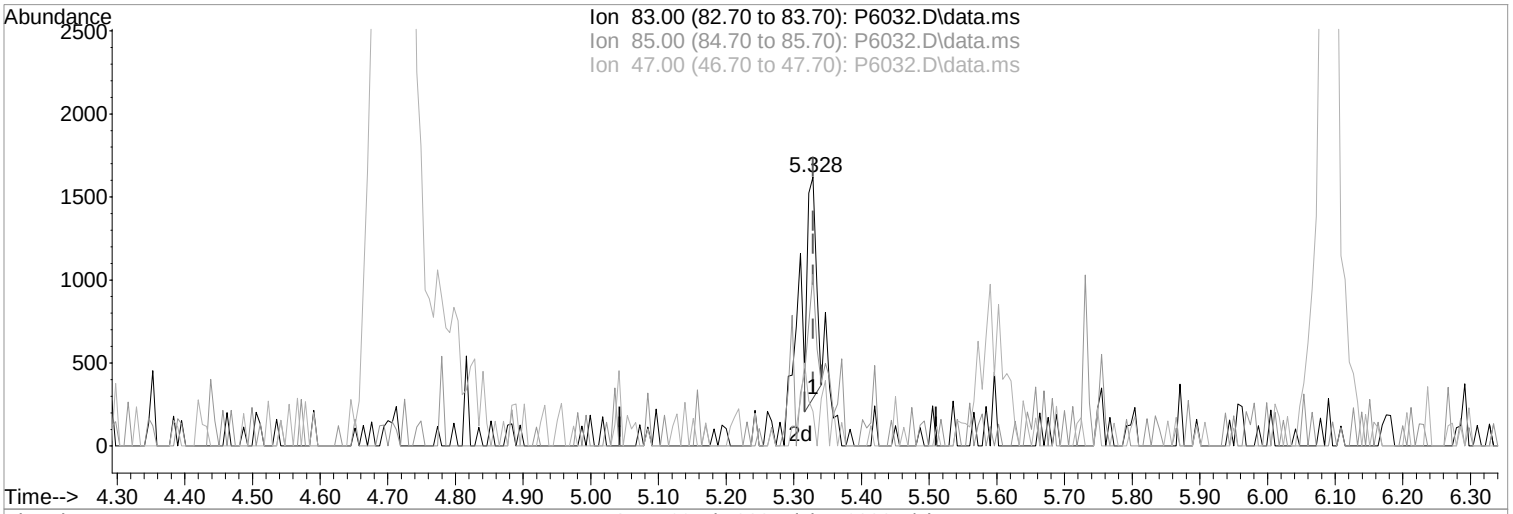
Split Peak

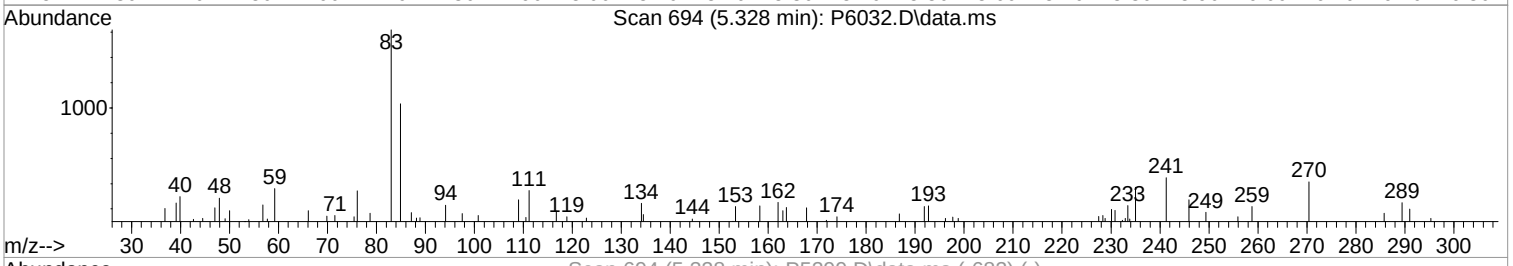
10/28/16

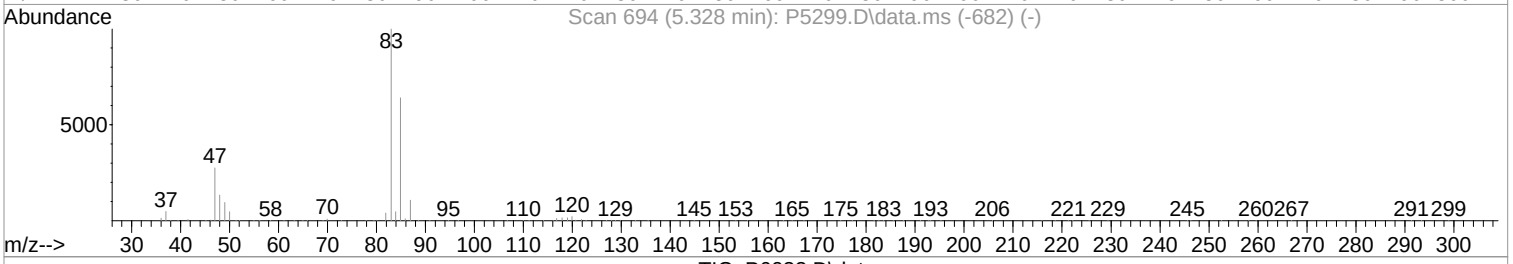
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6032.D
Acq On : 28 Oct 2016 3:24 am
Operator : K.Ruest
Sample : R1611185-028|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 28 09:07:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6032.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.12 ppb

response 1207

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	63.77
47.00	27.40	12.96
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6032.D
Acq On : 28 Oct 2016 3:24 am
Operator : K.Ruest
Sample : R1611185-028|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 28 16:42:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

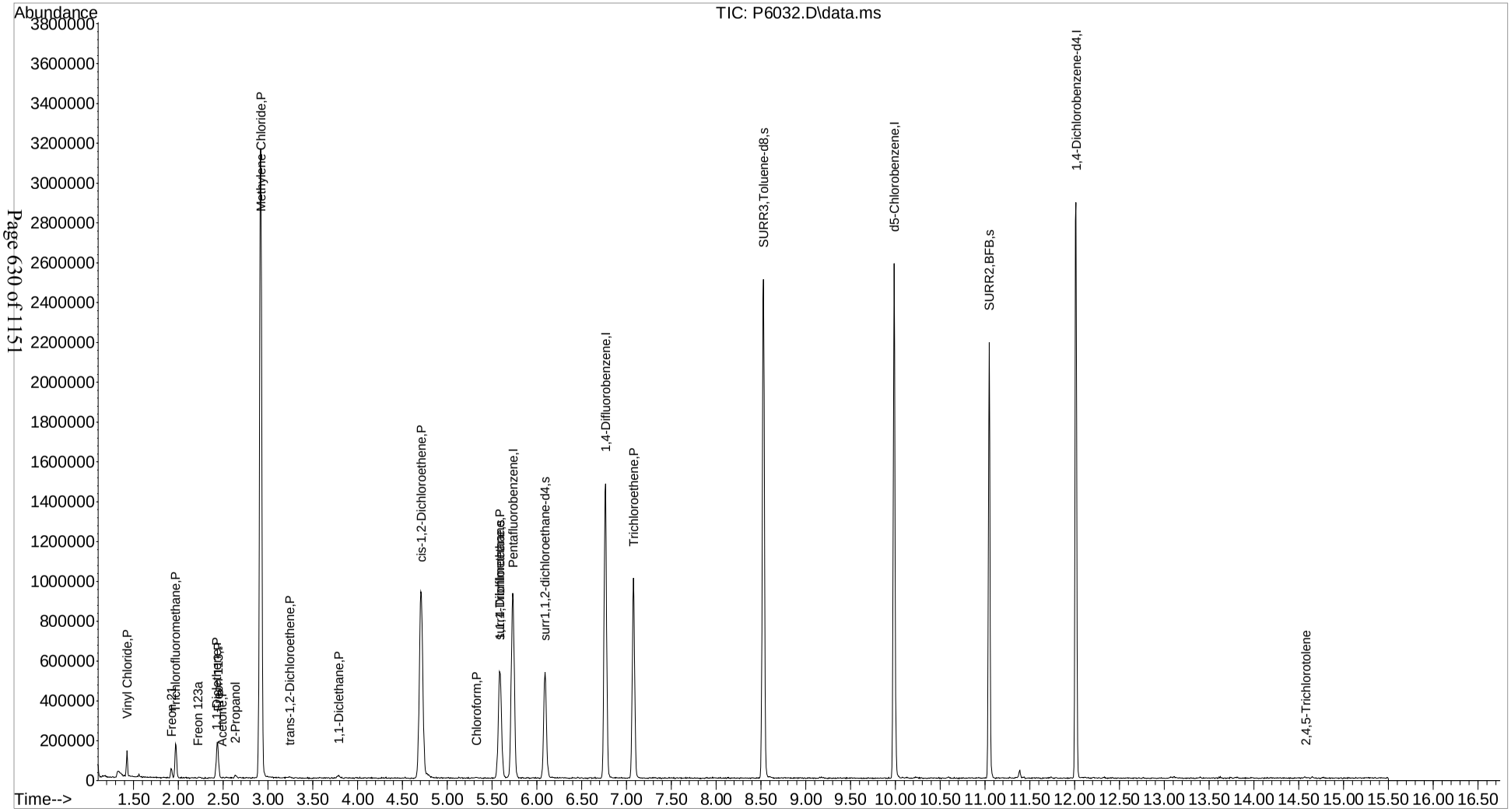
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	779734	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1267393	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1159574	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	601258	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	371970	54.99	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.98%				
48) surr1,1,2-dichloroetha...	6.090	65	416727	54.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.46%				
65) SURR3,Toluene-d8	8.529	98	1575745	56.85	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.70%				
70) SURR2,BFB	11.047	95	575613	53.23	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.46%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	68301	11.07	ppb		90
7) Freon 21	1.920	67	30477	3.73	ppb		91
8) Trichlorofluoromethane	1.969	101	101193	14.17	ppb		98
10) Freon 123a	2.219	67	1883	0.38	ppb	#	18
13) 1,1-Diclethene	2.420	96	3213	0.59	ppb	#	63
14) Freon 113	2.439	101	67342	11.71	ppb		87
15) Acetone	2.487	43	1270	1.00	ppb		78
16) 2-Propanol	2.634	45	12452	45.92	ppb		98
22) Methylene Chloride	2.920	84	1335816	233.61	ppb		94
26) trans-1,2-Dichloroethene	3.243	96	2308m	0.38	ppb		
28) 1,1-Diclethane	3.792	63	12091	1.19	ppb		92
34) cis-1,2-Dichloroethene	4.713	96	600208	96.46	ppb		98
40) Chloroform	5.328	83	3336m	0.34	ppb		
41) 1,1,1-Trichloroethane	5.584	97	51330	5.65	ppb		96
54) Trichloroethene	7.078	130	341851	51.08	ppb		95
119) 2,4,5-Trichlorotolene	14.576	159	1368	0.24	ppb	#	60

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

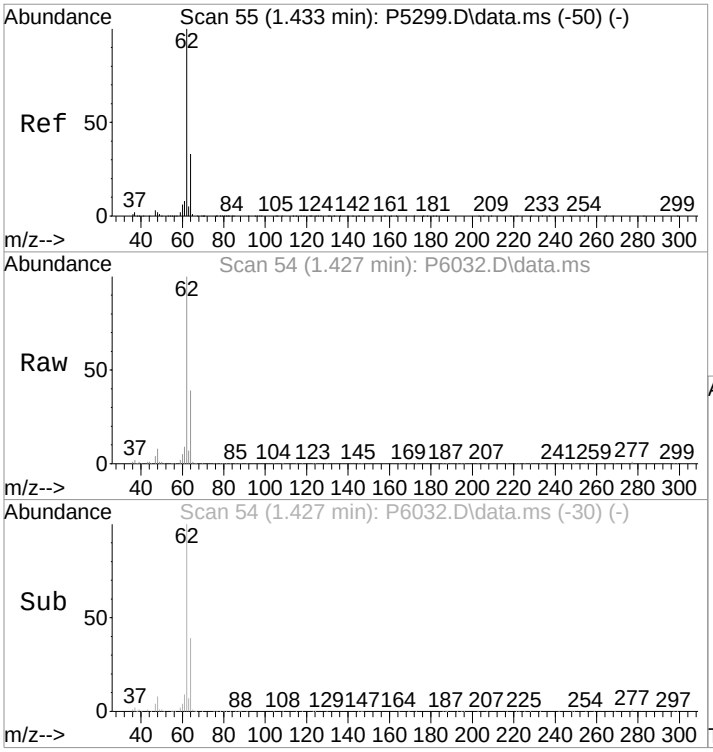
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6032.D
Acq On : 28 Oct 2016 3:24 am
Operator : K.Ruest
Sample : R1611185-028|10 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 28 16:42:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



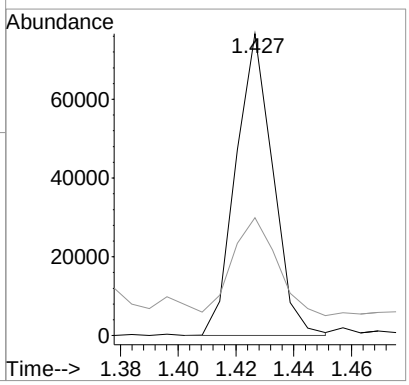
1st 10/31/16
2nd 10/31/16

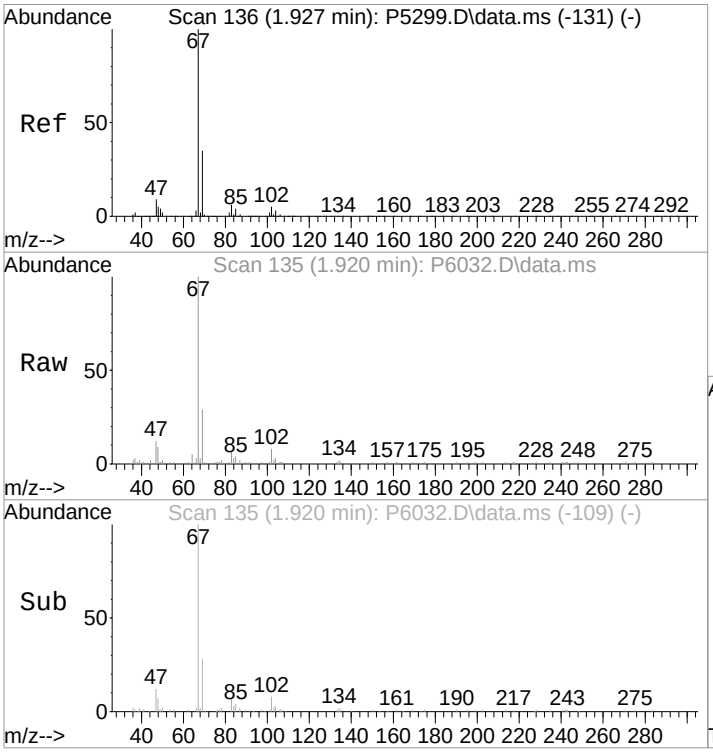


#4
Vinyl Chloride
Concen: 11.07 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 62 Resp: 68301

Ion	Ratio	Lower	Upper
62	100		
64	39.0	13.1	53.1

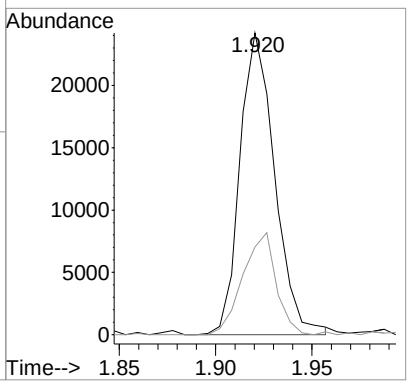


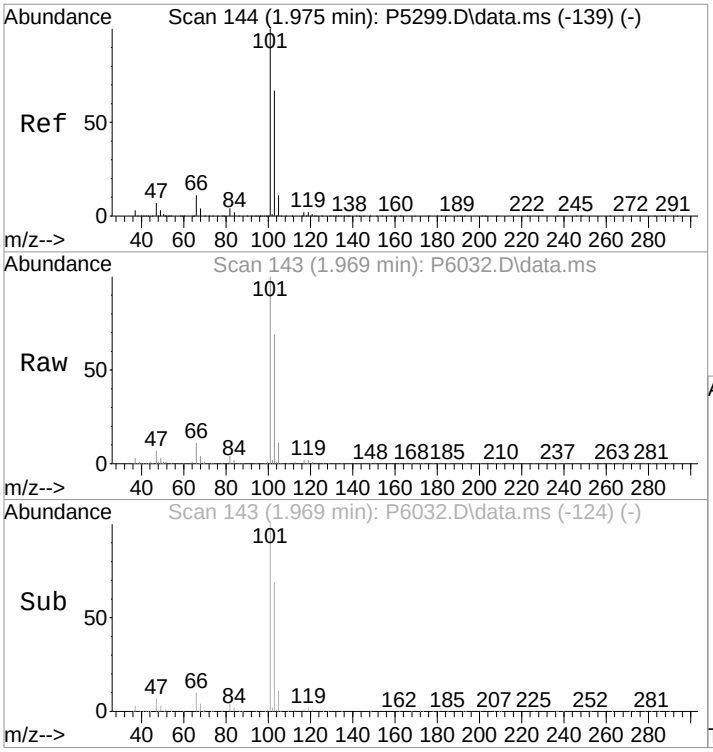


#7
Freon 21
Concen: 3.73 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 67 Resp: 30477

Ion	Ratio	Lower	Upper
67	100		
69	29.1	14.4	54.4

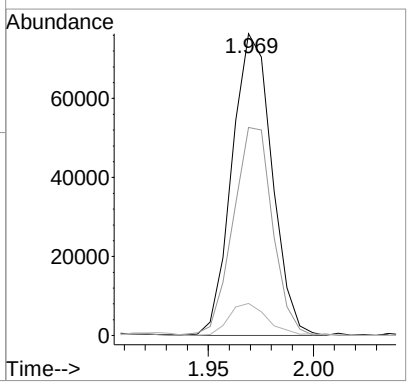


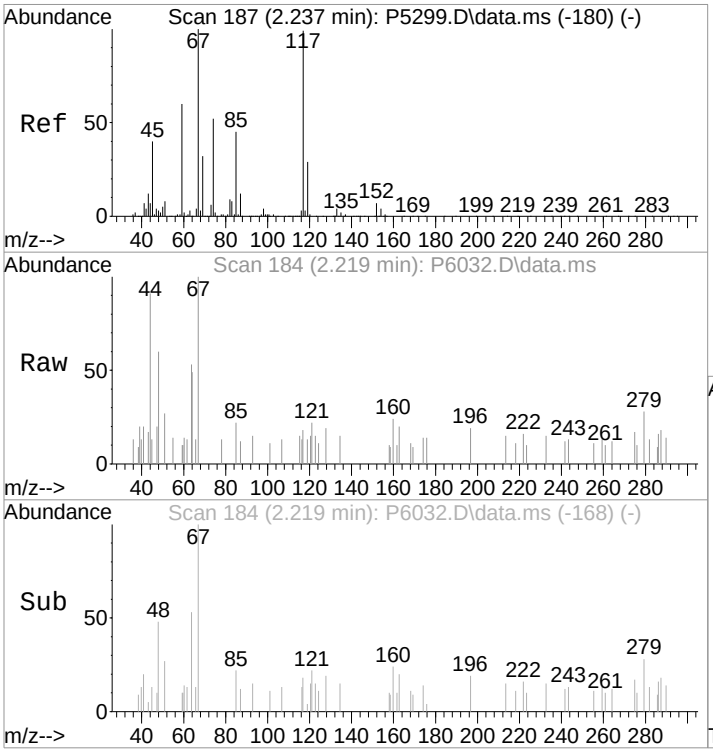


#8
Trichlorofluoromethane
Concen: 14.17 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion:101 Resp: 101193

Ion	Ratio	Lower	Upper
101	100		
103	68.9	47.3	87.3
66	10.6	0.0	31.5

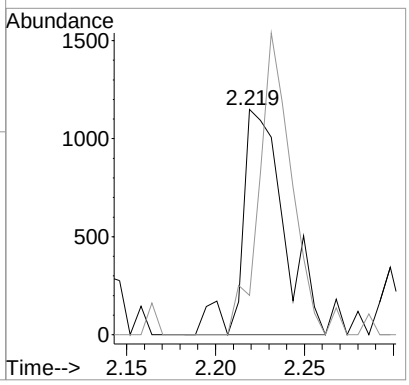


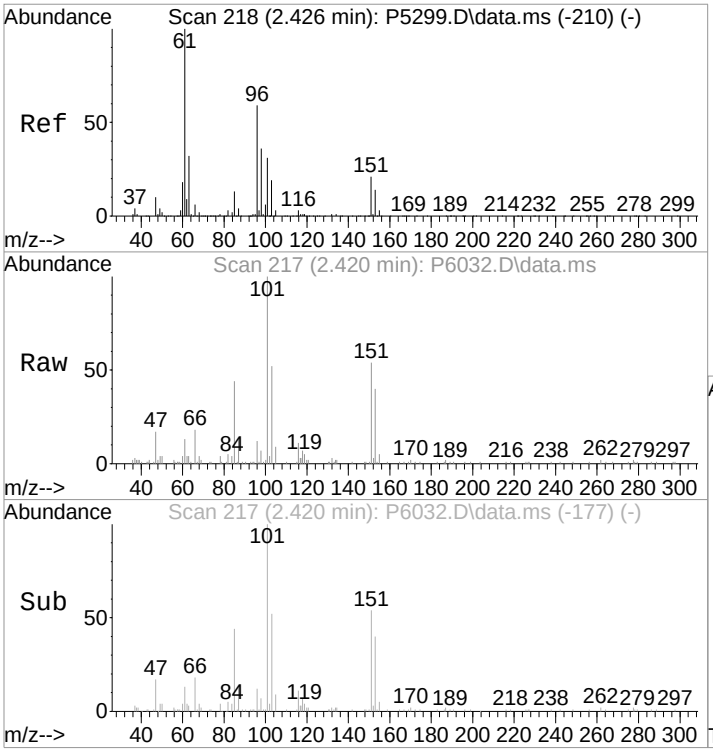


#10
Freon 123a
Concen: 0.38 ppb
RT: 2.219 min Scan# 184
Delta R.T. -0.018 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 67 Resp: 1883

Ion	Ratio	Lower	Upper
67	100		
117	17.6	78.8	118.8#

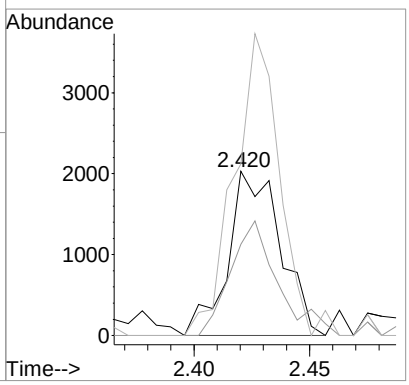


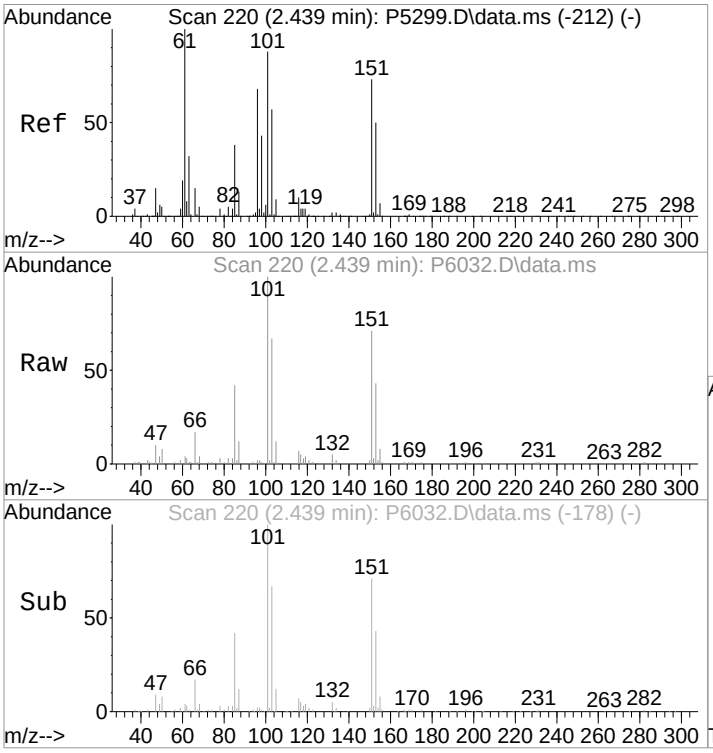


#13
1,1-Diclethene
Concen: 0.59 ppb
RT: 2.420 min Scan# 217
Delta R.T. -0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 96 Resp: 3213

Ion	Ratio	Lower	Upper
96	100		
98	55.5	41.8	81.8
61	104.6	150.1	190.1#

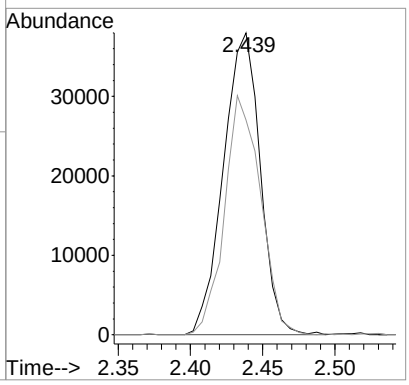


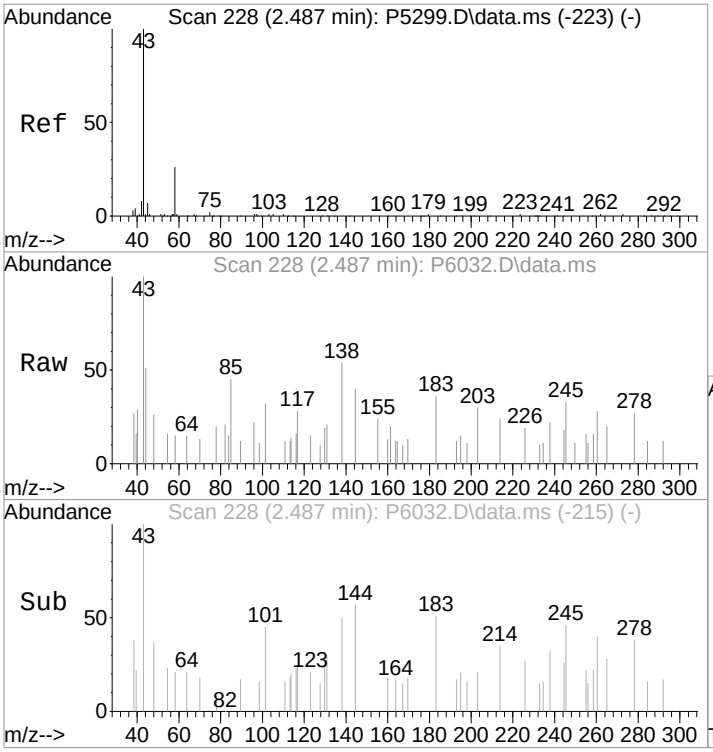


#14
Freon 113
Concen: 11.71 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion:101 Resp: 67342

Ion	Ratio	Lower	Upper
101	100		
151	71.1	62.6	102.6

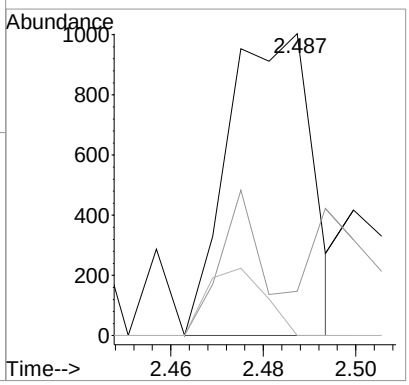


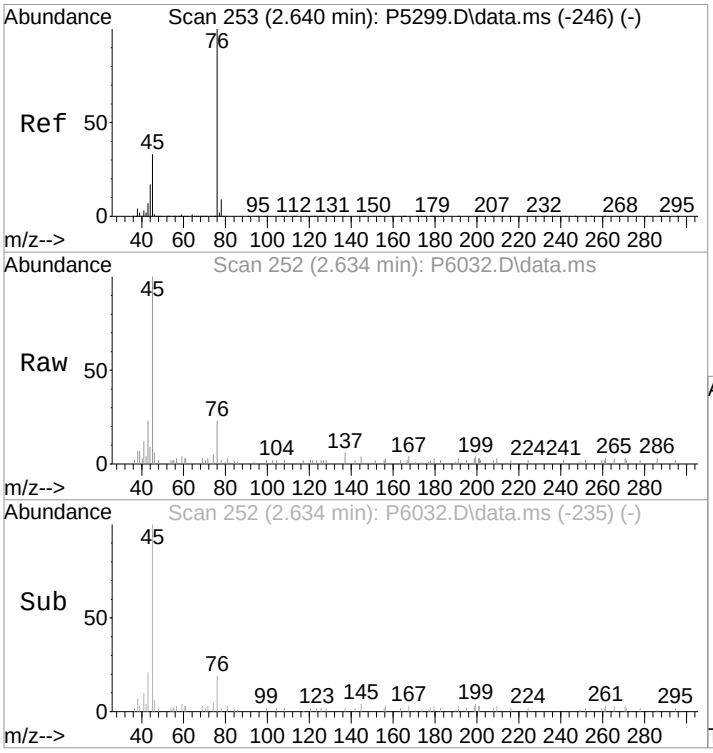


#15
Acetone
Concen: 1.00 ppb
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 43 Resp: 1270

Ion	Ratio	Lower	Upper
43	100		
58	14.6	5.3	45.3
42	0.0	0.0	28.7

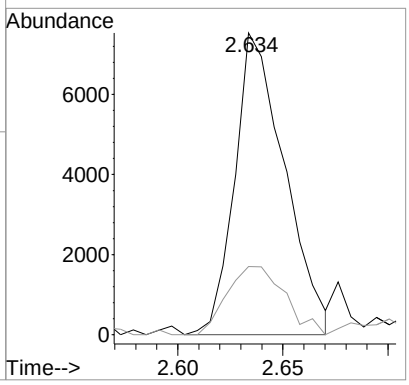


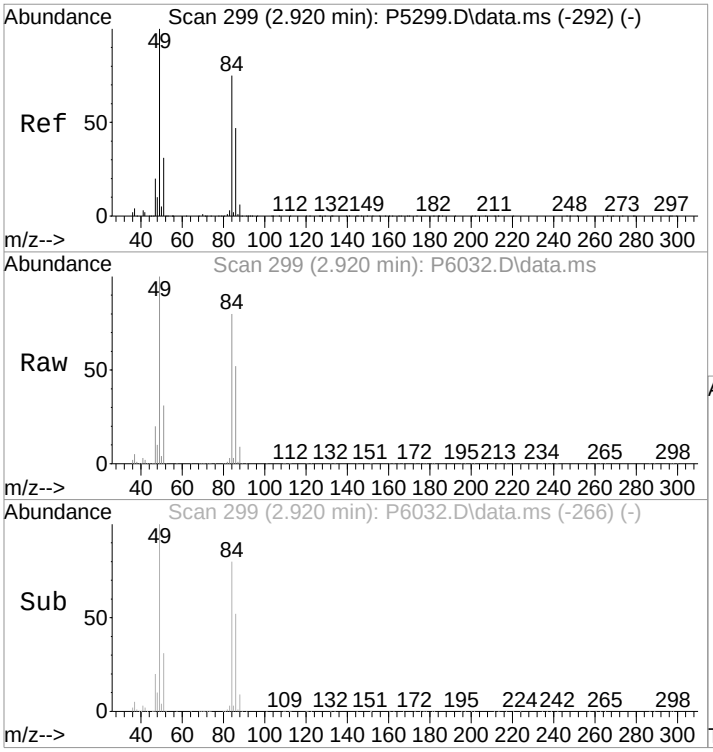


#16
2-Propanol
Concen: 45.92 ppb
RT: 2.634 min Scan# 252
Delta R.T. -0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 45 Resp: 12452

Ion	Ratio	Lower	Upper
45	100		
43	22.6	1.6	41.6

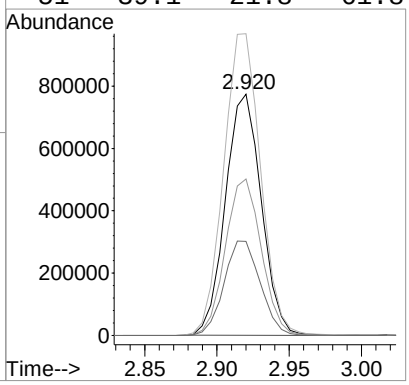


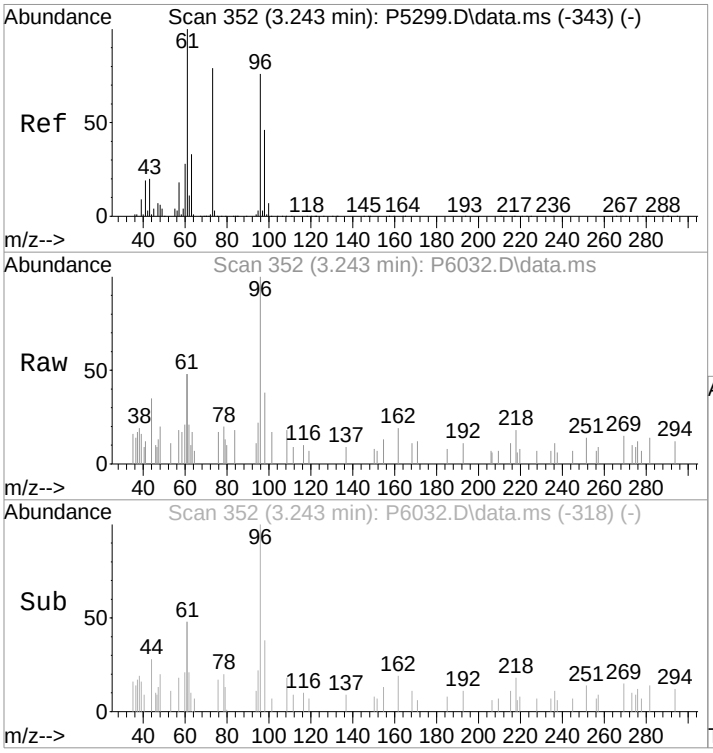


#22
Methylene Chloride
Concen: 233.61 ppb
RT: 2.920 min Scan# 299
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 84 Resp: 1335816

Ion	Ratio	Lower	Upper
84	100		
86	64.8	42.8	82.8
49	125.1	113.9	153.9
51	39.1	21.8	61.8

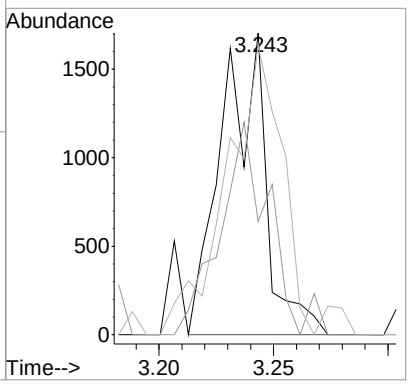


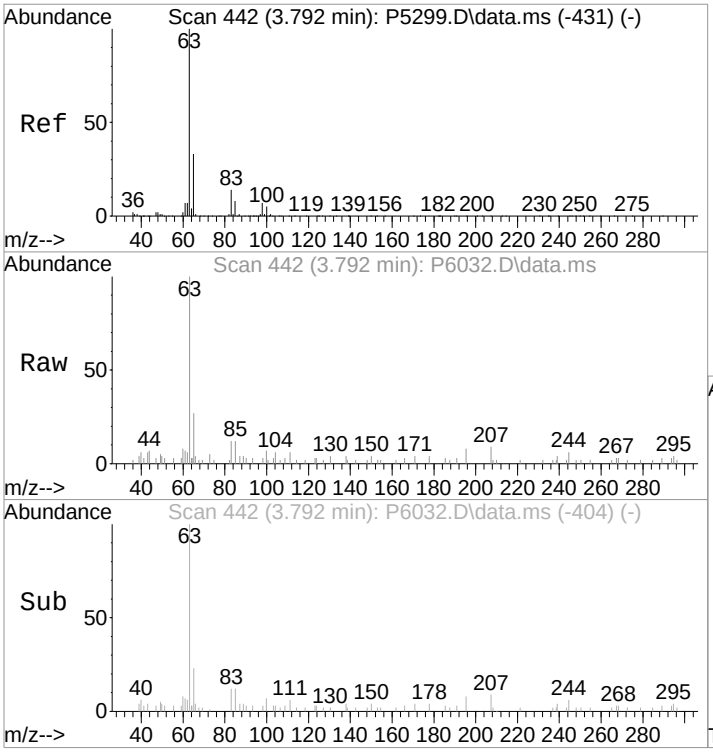


#26
trans-1,2-Dichloroethene
Concen: 0.38 ppb m
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 96 Resp: 2308

Ion	Ratio	Lower	Upper
96	100		
98	37.6	41.0	81.0#
61	48.2	112.4	152.4#

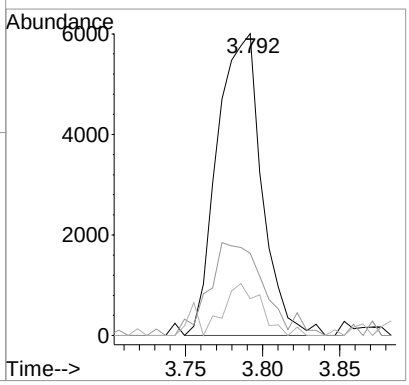


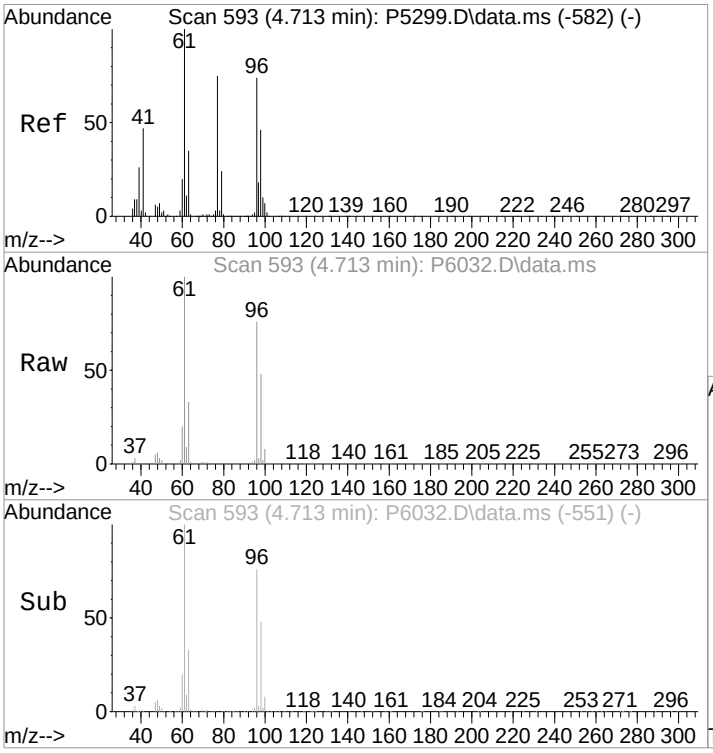


#28
1,1-Diclethane
Concen: 1.19 ppb
RT: 3.792 min Scan# 442
Delta R.T. 0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 63 Resp: 12091

Ion	Ratio	Lower	Upper
63	100		
65	27.3	12.9	52.9
83	12.2	0.0	33.5

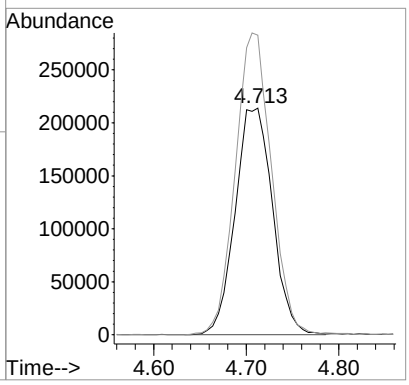


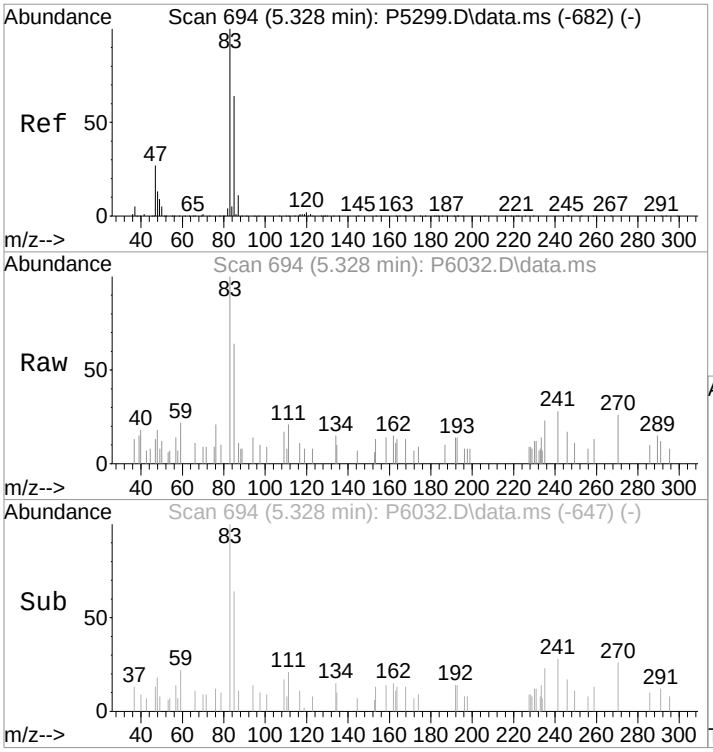


#34
cis-1,2-Dichloroethene
Concen: 96.46 ppb
RT: 4.713 min Scan# 593
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 96 Resp: 600208

Ion	Ratio	Lower	Upper
96	100		
61	132.2	114.6	154.6

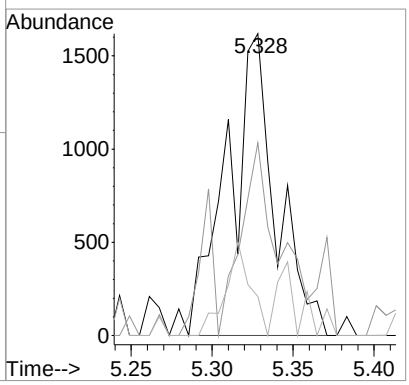


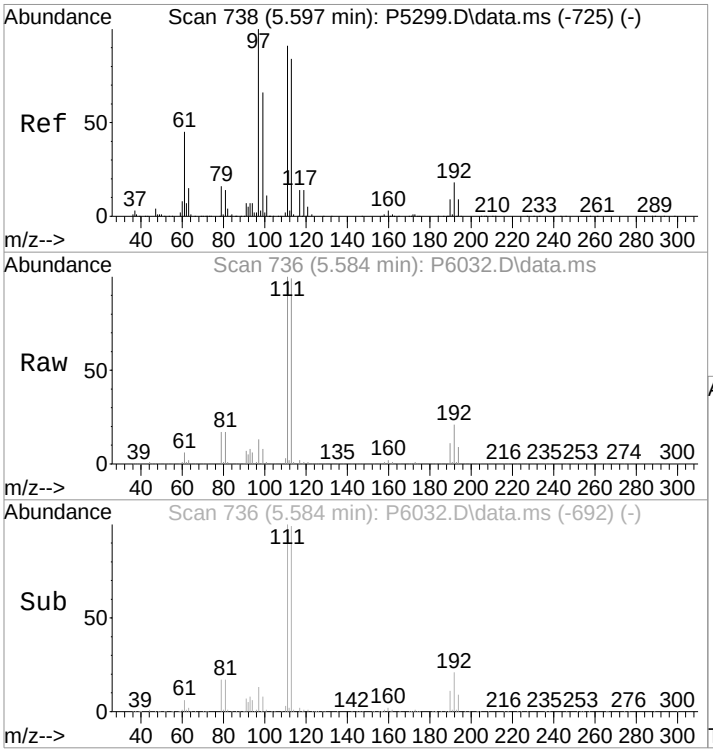


#40
Chloroform
Concen: 0.34 ppb m
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 83 Resp: 3336

Ion	Ratio	Lower	Upper
83	100		
85	63.8	44.1	84.1
47	13.0	7.4	47.4

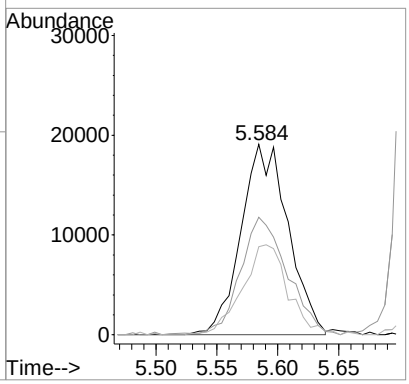


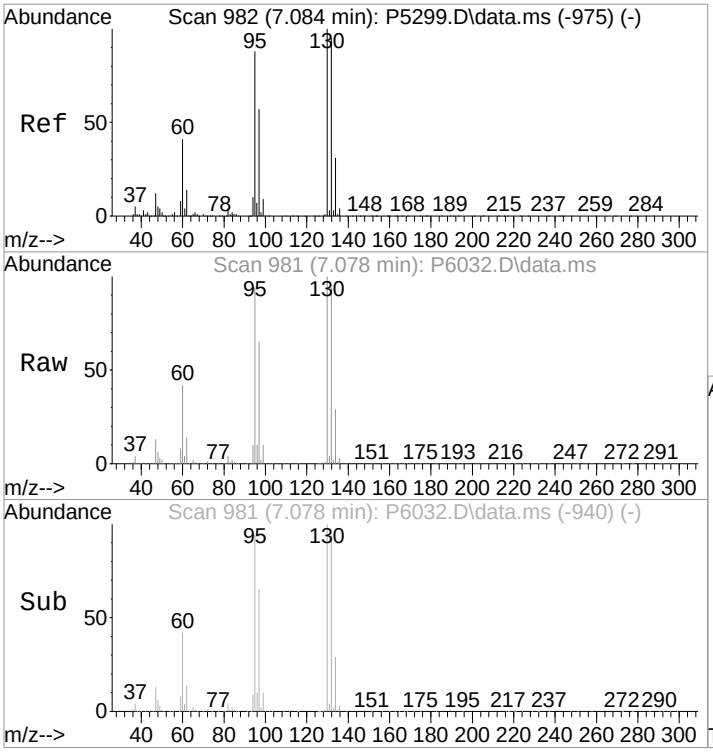


#41
1,1,1-Trichloroethane
Concen: 5.65 ppb
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion: 97 Resp: 51330

Ion	Ratio	Lower	Upper
97	100		
99	61.7	46.2	86.2
61	46.2	25.3	65.3

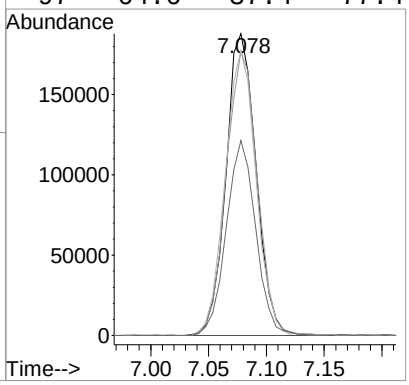


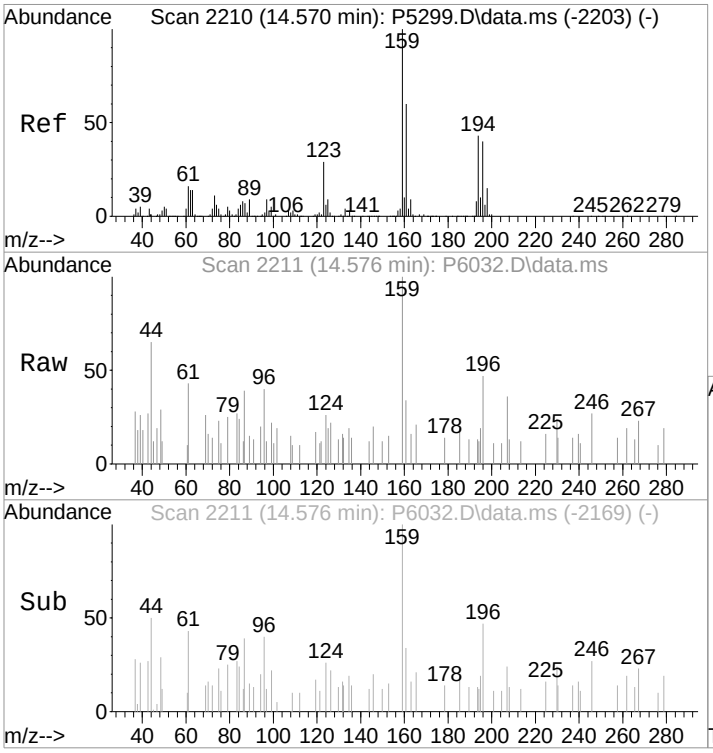


#54
Trichloroethene
Concen: 51.08 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion:130 Resp: 341851

Ion	Ratio	Lower	Upper
130	100		
132	94.0	75.2	115.2
95	94.3	68.1	108.1
97	64.6	37.4	77.4

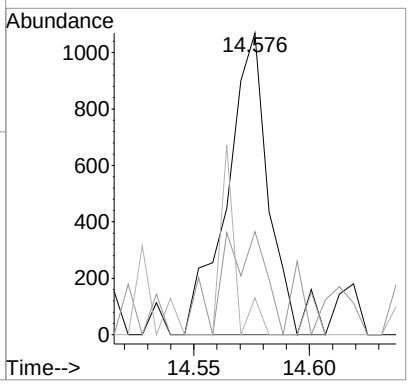




#119
2,4,5-Trichlorotolene
Concen: 0.24 ppb
RT: 14.576 min Scan# 2211
Delta R.T. 0.006 min
Lab File: P6032.D
Acq: 28 Oct 2016 3:24 am

Tgt Ion:159 Resp: 1368

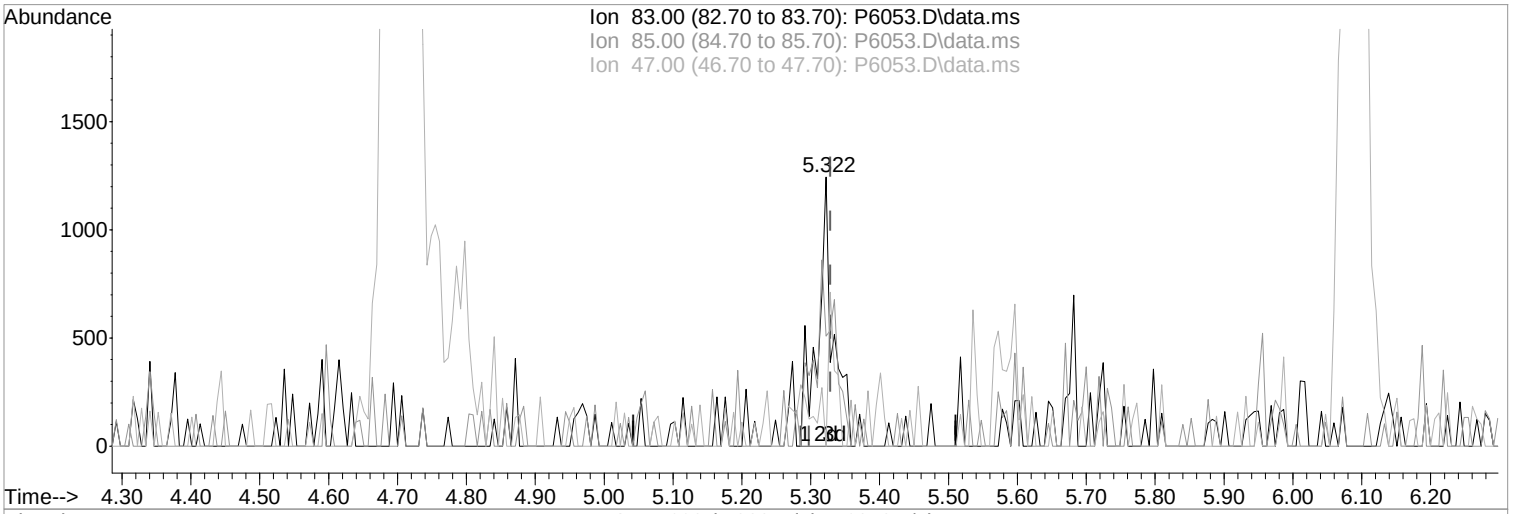
Ion	Ratio	Lower	Upper
159	100		
161	34.1	48.1	72.1#
194	12.2	34.5	51.7#

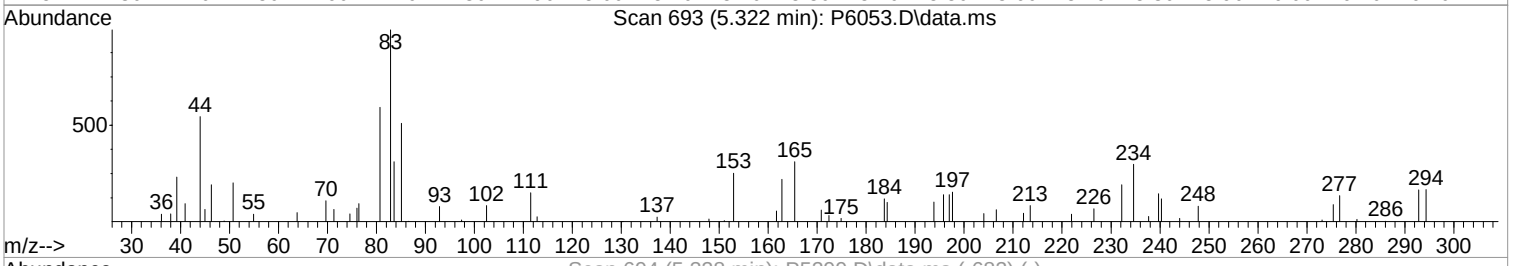


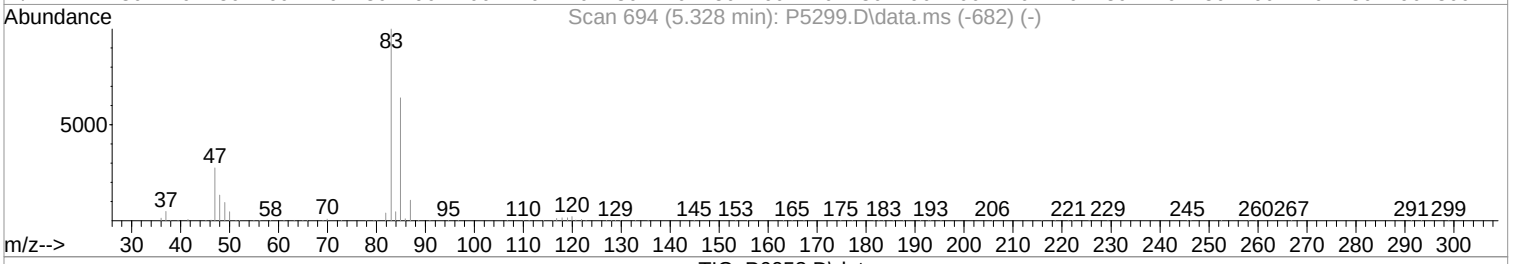
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6053.D
Acq On : 28 Oct 2016 2:44 pm
Operator : K.Ruest
Sample : R1611885-028|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 28 15:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6053.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 0.20 ppb m

response 1947

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	56.76
47.00	27.40	0.00#
0.00	0.00	0.00

Manual Integration:

After

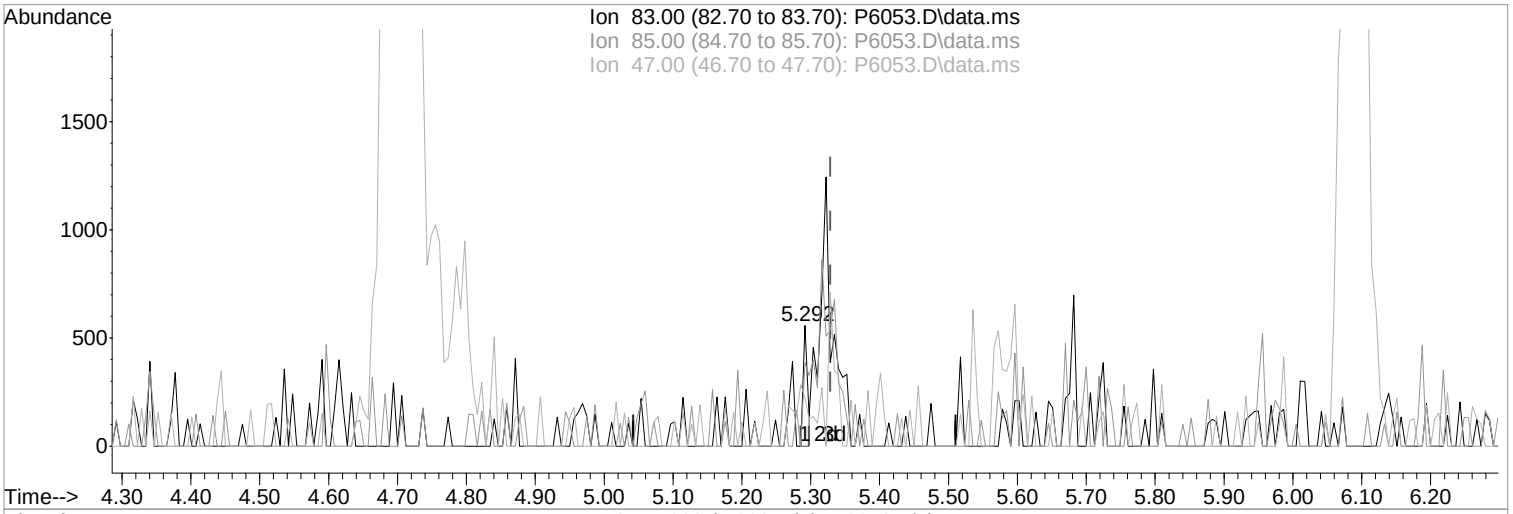
Split Peak

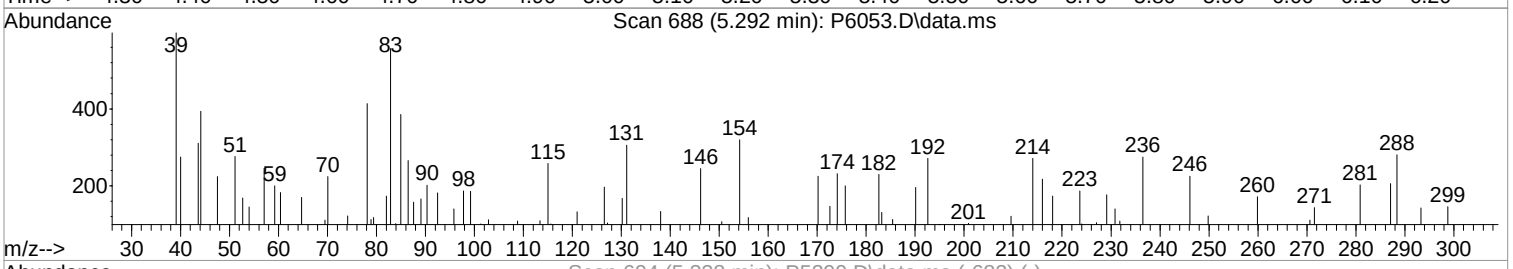
10/31/16

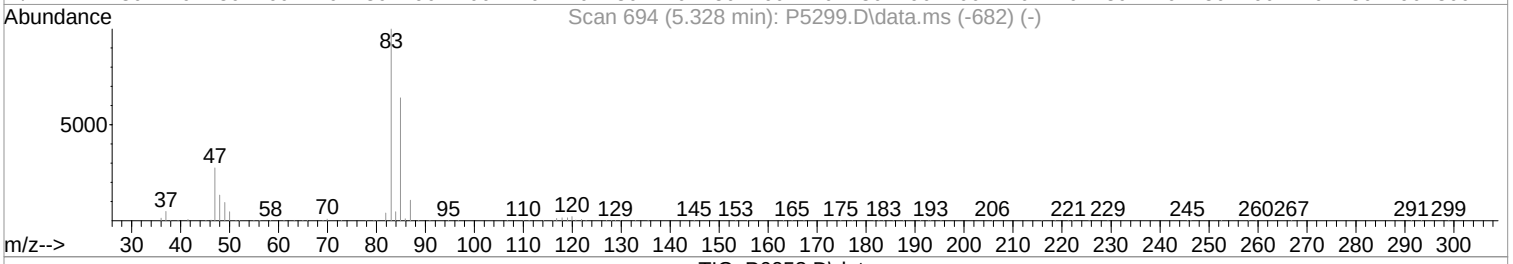
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6053.D
Acq On : 28 Oct 2016 2:44 pm
Operator : K.Ruest 11185
Sample : R1611885-028|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 28 15:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6053.D\data.ms

(40) Chloroform (P)

5.292min (-0.037) 0.03 ppb

response 254

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	69.30
47.00	27.40	40.22
0.00	0.00	0.00

Manual Integration:

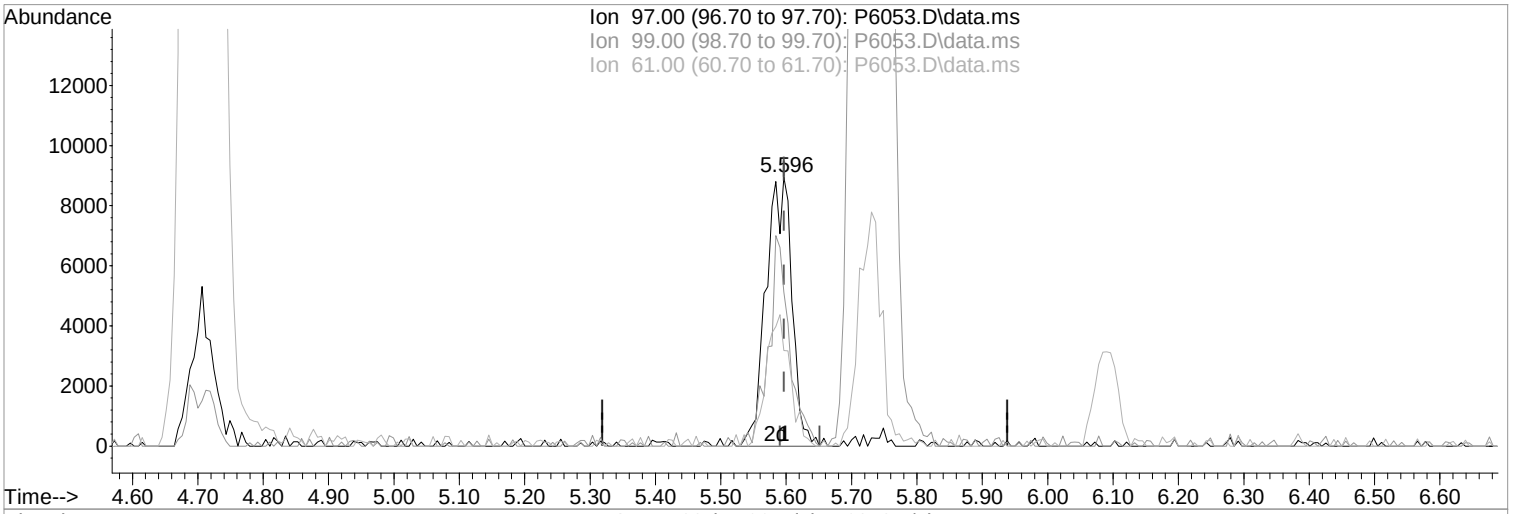
Before

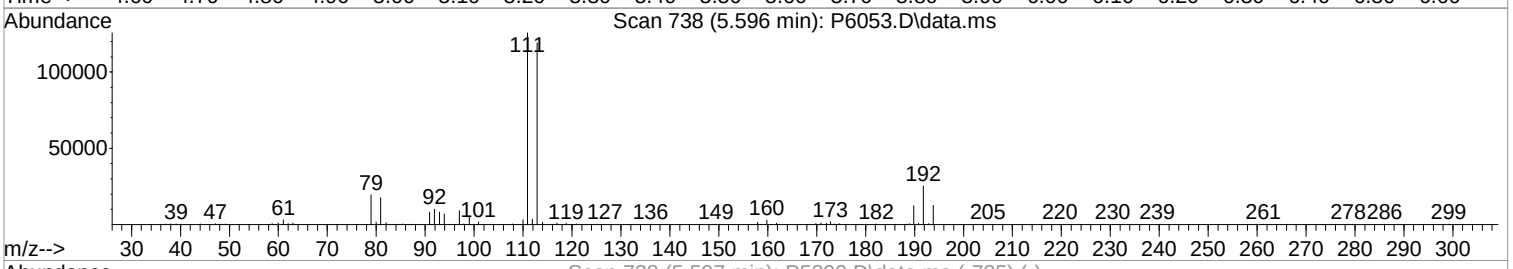
10/31/16

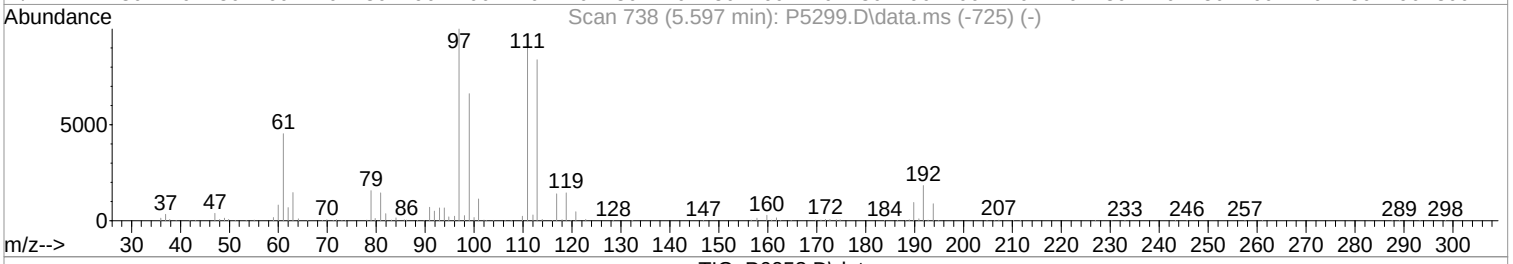
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6053.D
Acq On : 28 Oct 2016 2:44 pm
Operator : K.Ruest
Sample : R1611885-028|20 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 28 15:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6053.D\data.ms

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

5.596min (-0.000) 2.72 ppb m

response 24640

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	57.28
61.00	45.30	35.48
0.00	0.00	0.00

Manual Integration:

After

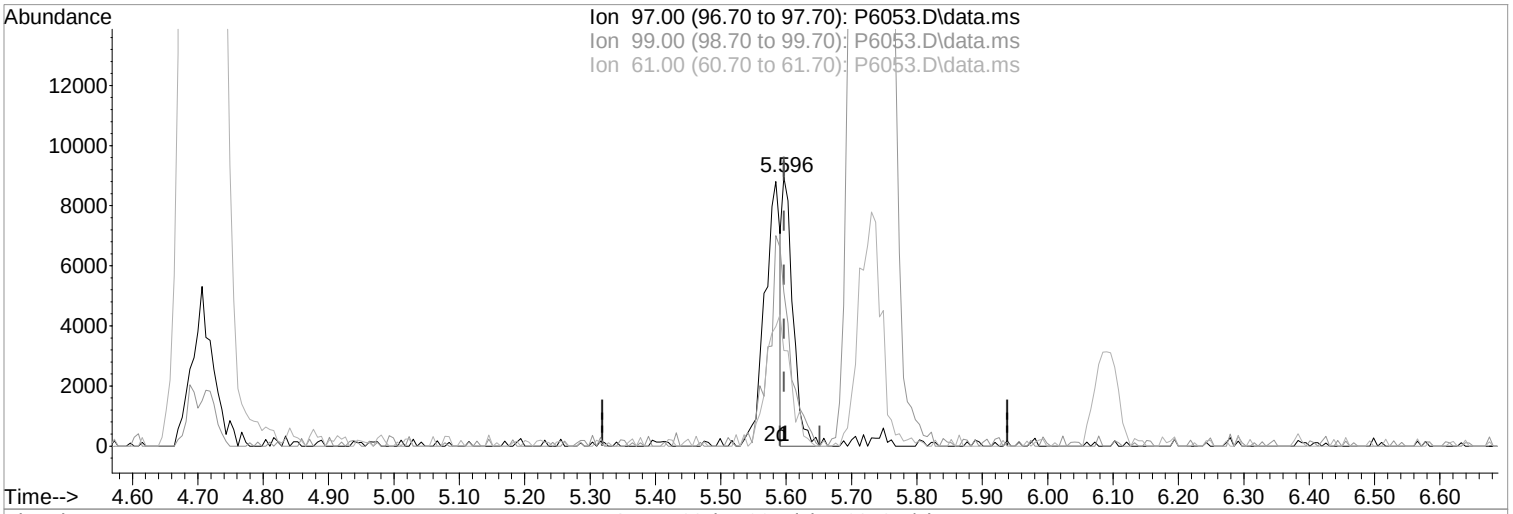
Split Peak

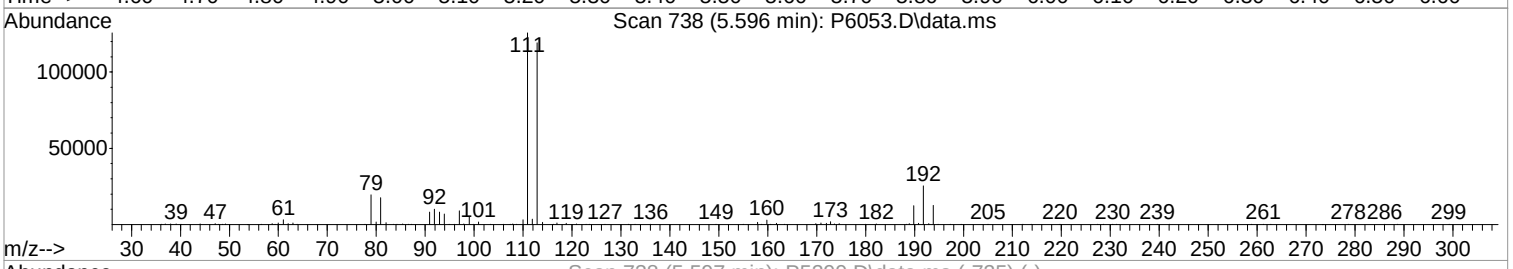
10/31/16

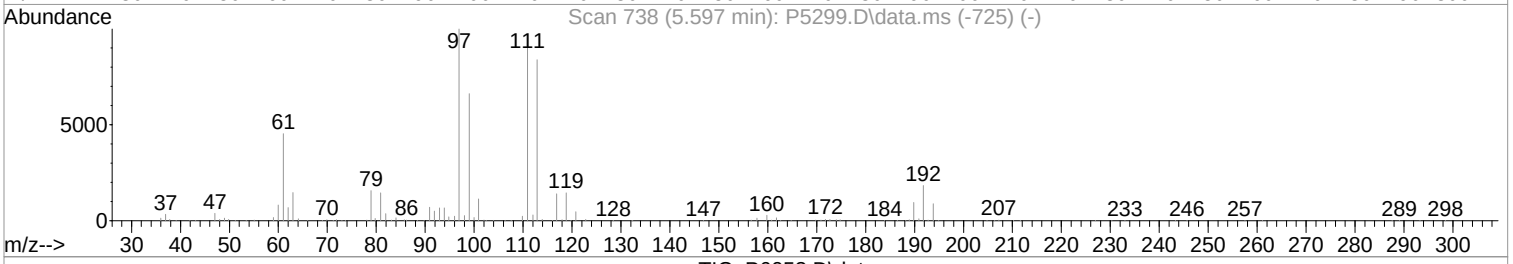
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6053.D
Acq On : 28 Oct 2016 2:44 pm
Operator : K.Ruest 11185
Sample : R1611885-028|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 28 15:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6053.D\data.ms

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

5.596min (-0.000) 1.13 ppb

response 10231

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	57.28
61.00	45.30	35.48
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6053.D
Acq On : 28 Oct 2016 2:44 pm
Operator : K.Ruest 11185
Sample : R1611885-028|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

dil

Quant Time: Oct 31 10:44:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

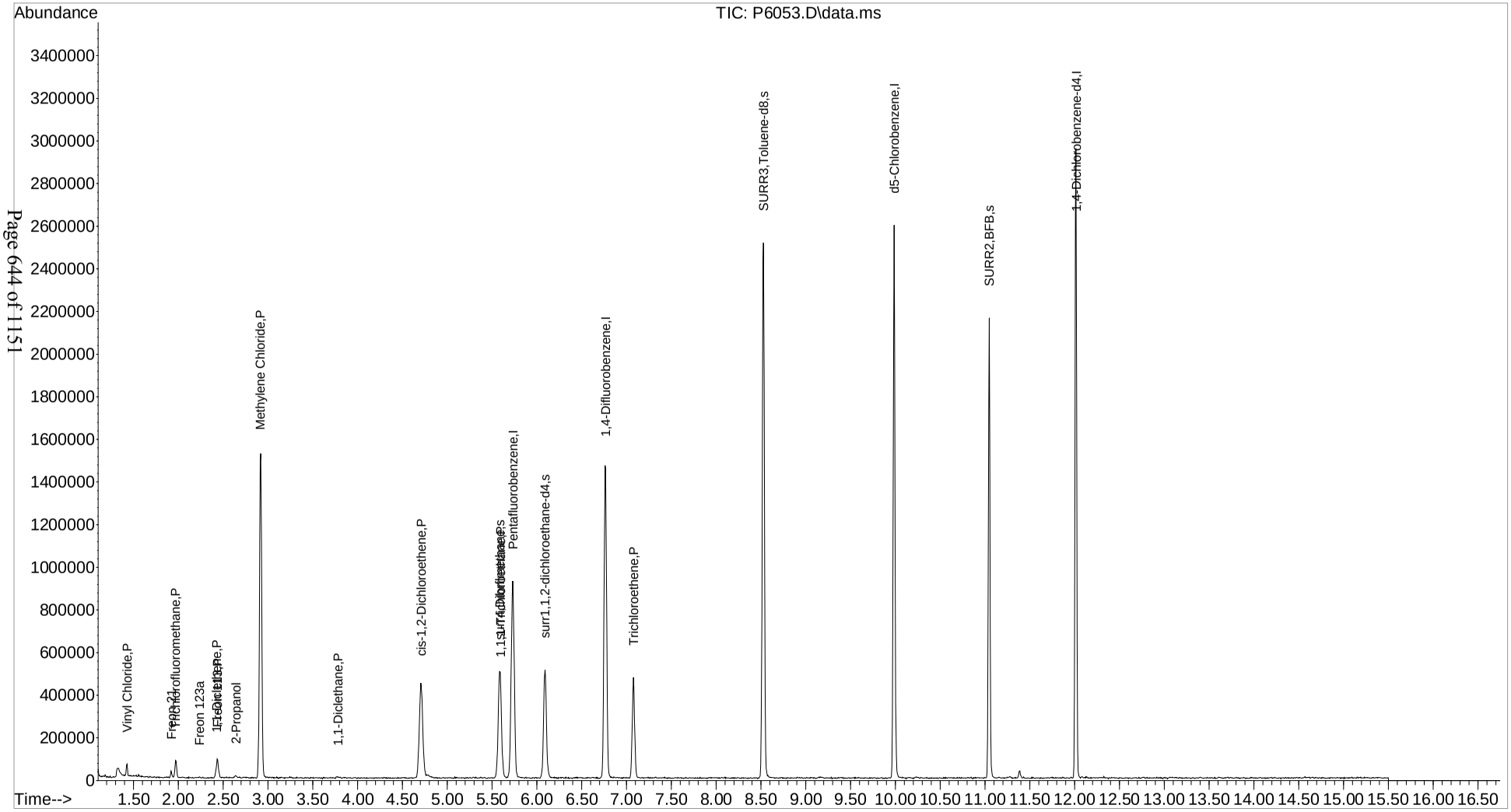
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	776298	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1272324	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1155608	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	593320	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	363689	53.56	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.12%				
48) surr1,1,2-dichloroetha...	6.090	65	395353	51.25	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.50%				
65) SURR3,Toluene-d8	8.529	98	1547899	55.63	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.26%				
70) SURR2,BFB	11.047	95	557427	51.35	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.70%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	31283	5.09	ppb	#	63
7) Freon 21	1.920	67	14550	1.79	ppb		95
8) Trichlorofluoromethane	1.969	101	48603	6.84	ppb		93
10) Freon 123a	2.231	67	1290	0.26	ppb	#	52
13) 1,1-Diclethene	2.426	96	2133	0.40	ppb	#	54
14) Freon 113	2.432	101	32066	5.60	ppb		96
16) 2-Propanol	2.640	45	6857	25.40	ppb		95
22) Methylene Chloride	2.914	84	642707	112.90	ppb		95
28) 1,1-Diclethane	3.780	63	5949	0.59	ppb		86
34) cis-1,2-Dichloroethene	4.712	96	276894	44.70	ppb		88
41) 1,1,1-Trichloroethane	5.596	97	24640m	2.72	ppb		
54) Trichloroethene	7.078	130	161361	24.02	ppb		94

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

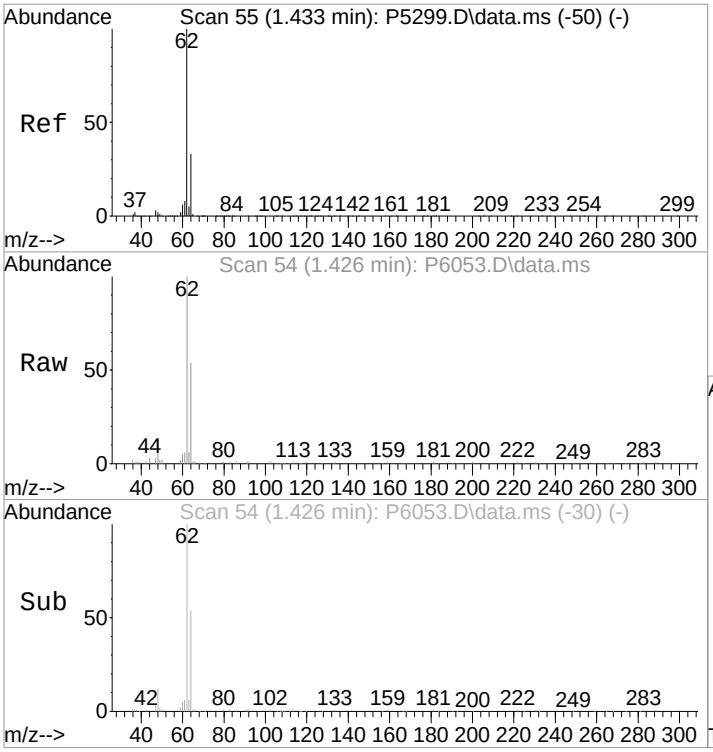
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6053.D
Acq On : 28 Oct 2016 2:44 pm
Operator : K.Ruest
Sample : R1611885-028|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 31 10:44:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



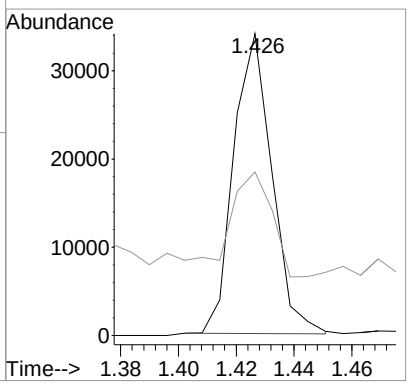
1st 10/31/16
2nd 10/31/16

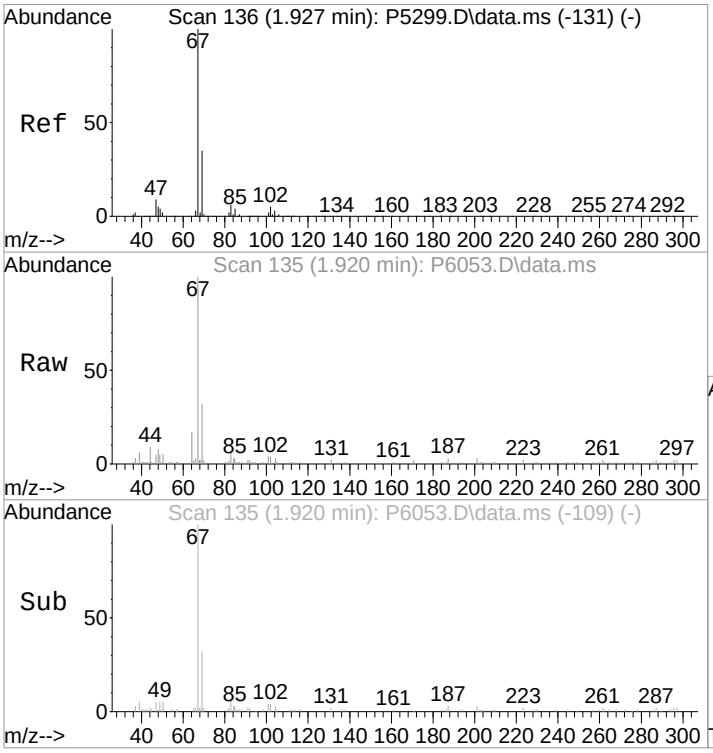


#4
Vinyl Chloride
Concen: 5.09 ppb
RT: 1.426 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 62 Resp: 31283

Ion	Ratio	Lower	Upper
62	100		
64	54.2	13.1	53.1#

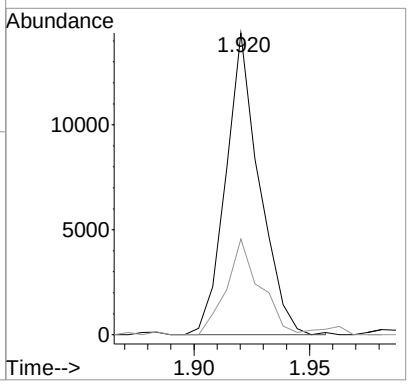


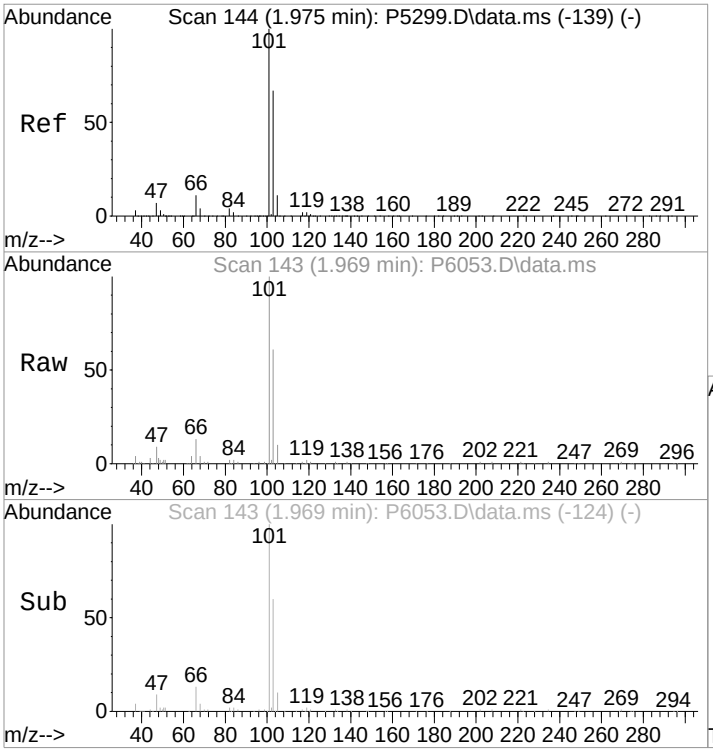


#7
Freon 21
Concen: 1.79 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 67 Resp: 14550

Ion	Ratio	Lower	Upper
67	100		
69	31.7	14.4	54.4

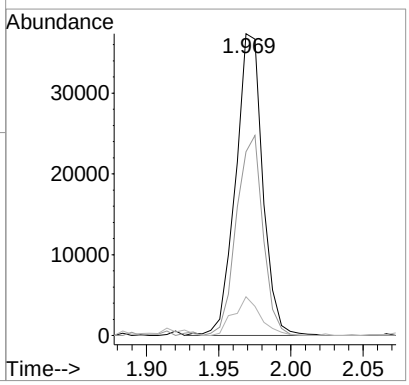


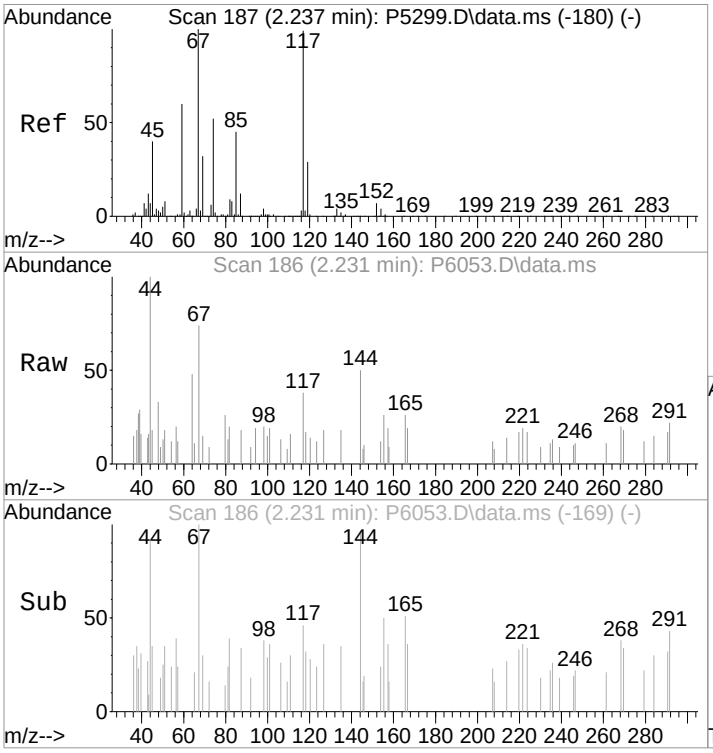


#8
Trichlorofluoromethane
Concen: 6.84 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion:101 Resp: 48603

Ion	Ratio	Lower	Upper
101	100		
103	60.8	47.3	87.3
66	12.9	0.0	31.5

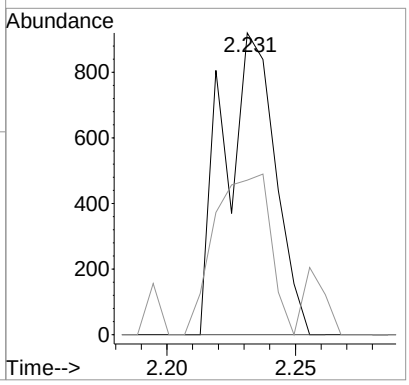


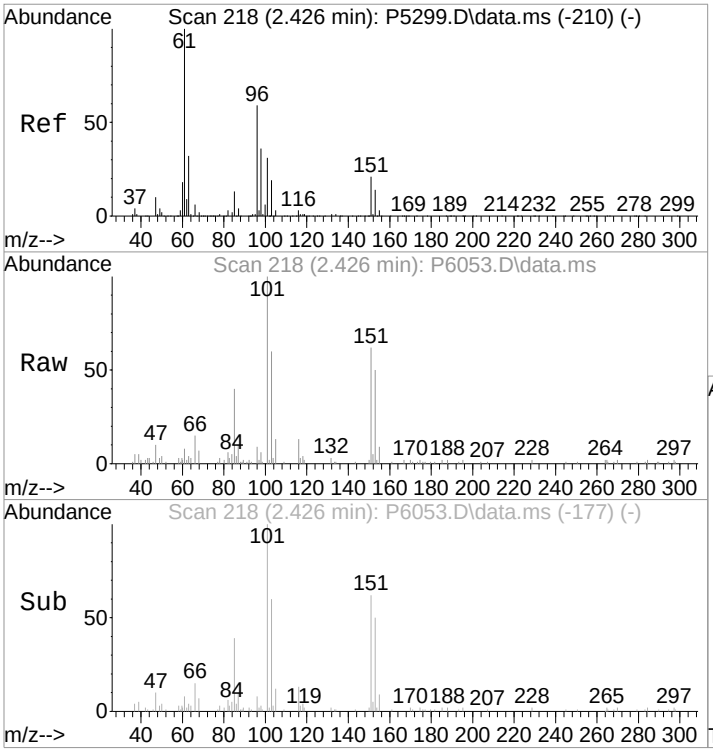


#10
Freon 123a
Concen: 0.26 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 67 Resp: 1290

Ion	Ratio	Lower	Upper
67	100		
117	51.2	78.8	118.8#

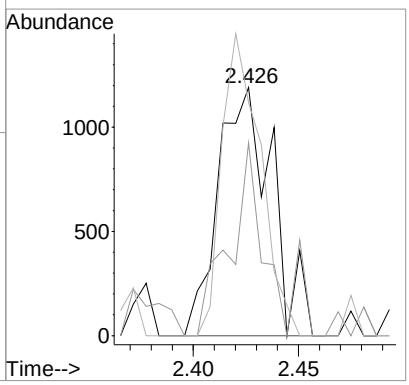


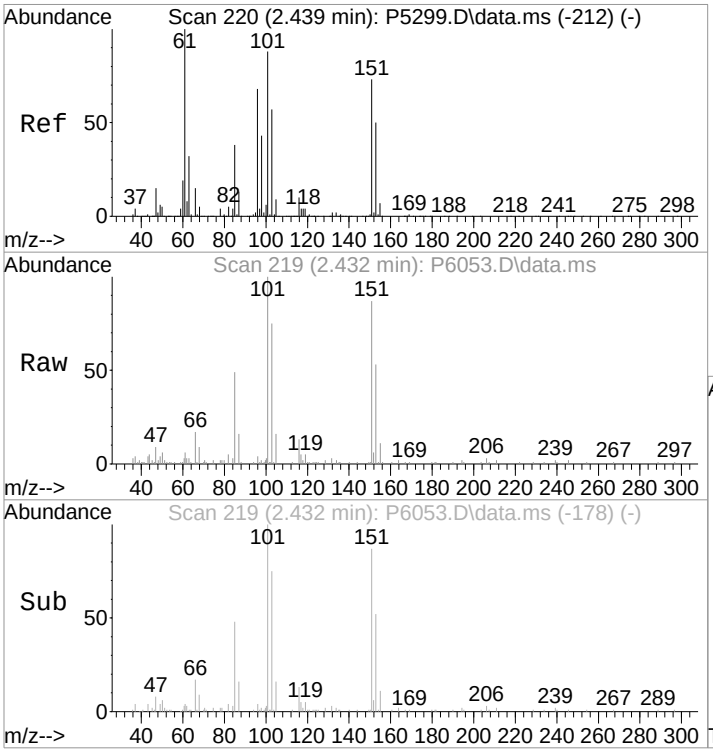


#13
1,1-Diclethene
Concen: 0.40 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 96 Resp: 2133

Ion	Ratio	Lower	Upper
96	100		
98	77.7	41.8	81.8
61	94.0	150.1	190.1#

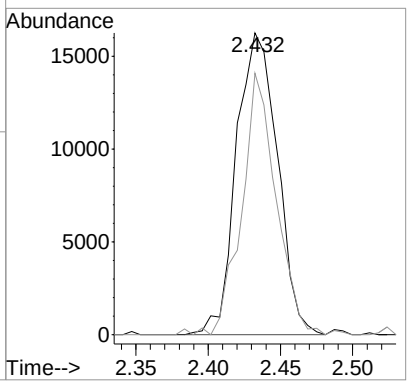


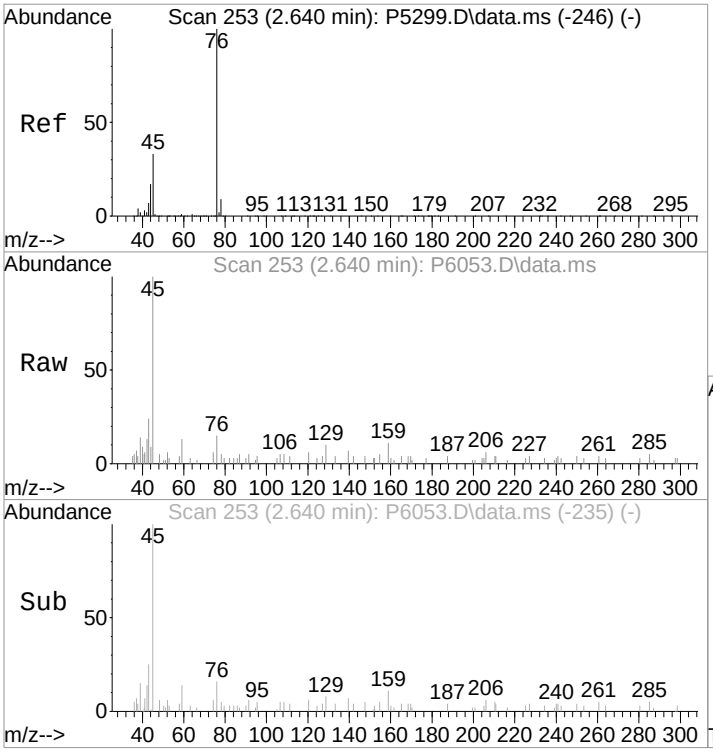


#14
Freon 113
Concen: 5.60 ppb
RT: 2.432 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion:101 Resp: 32066

Ion	Ratio	Lower	Upper
101	100		
151	86.6	62.6	102.6

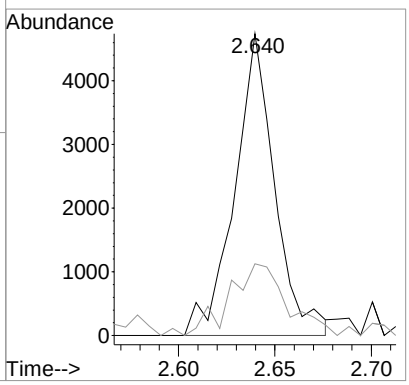


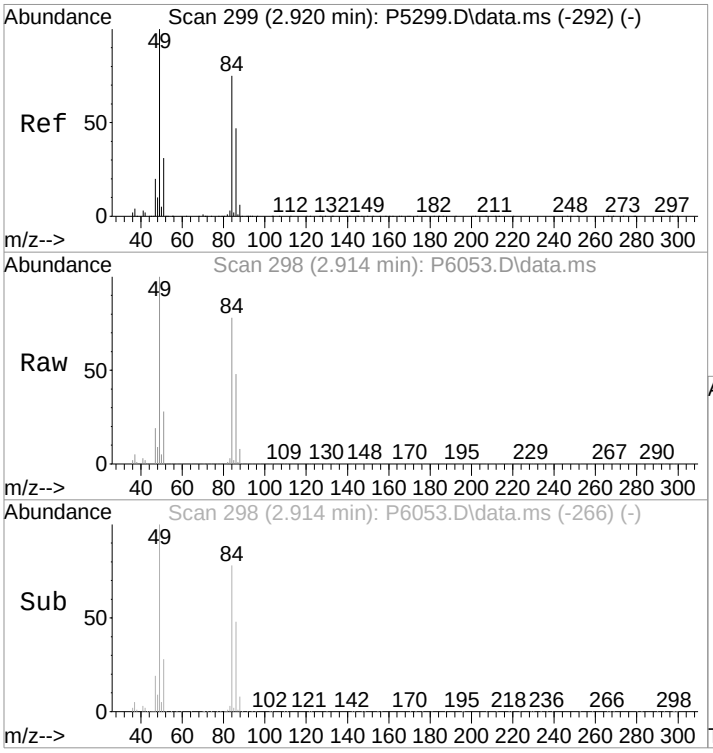


#16
2-Propanol
Concen: 25.40 ppb
RT: 2.640 min Scan# 253
Delta R.T. -0.000 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 45 Resp: 6857

Ion	Ratio	Lower	Upper
45	100		
43	23.8	1.6	41.6

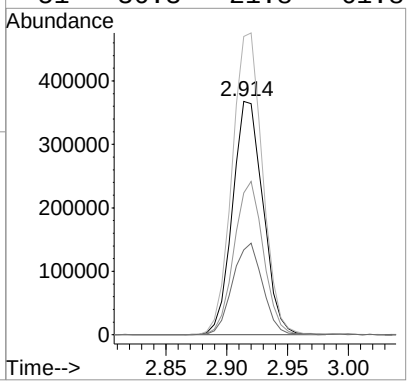


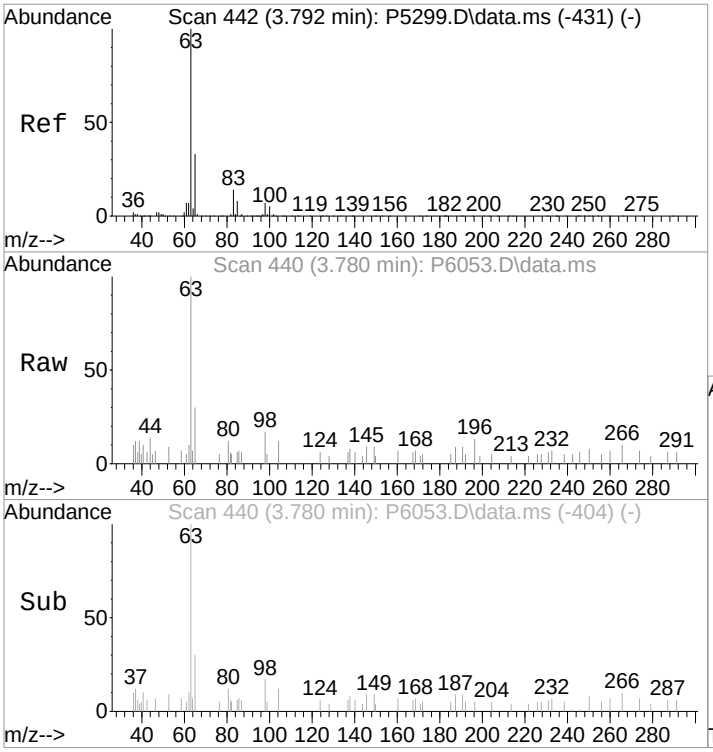


#22
Methylene Chloride
Concen: 112.90 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 84 Resp: 642707

Ion	Ratio	Lower	Upper
84	100		
86	60.7	42.8	82.8
49	127.7	113.9	153.9
51	36.3	21.8	61.8

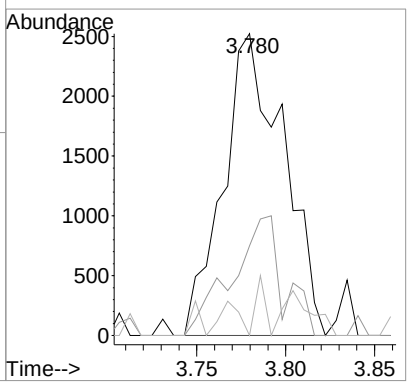


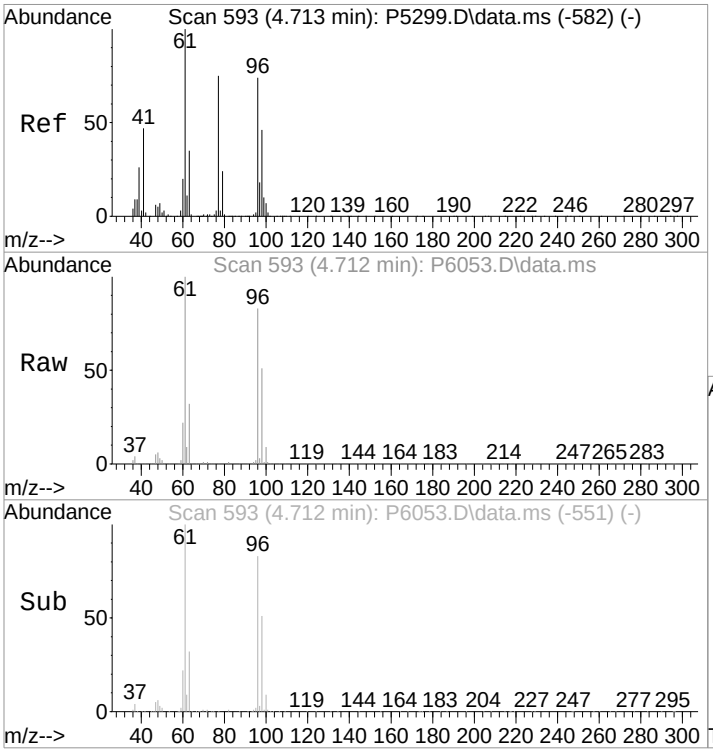


#28
1,1-Diclethane
Concen: 0.59 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 63 Resp: 5949

Ion	Ratio	Lower	Upper
63	100		
65	29.7	12.9	52.9
83	0.0	0.0	33.5

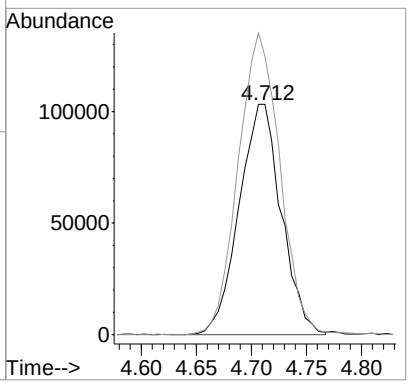


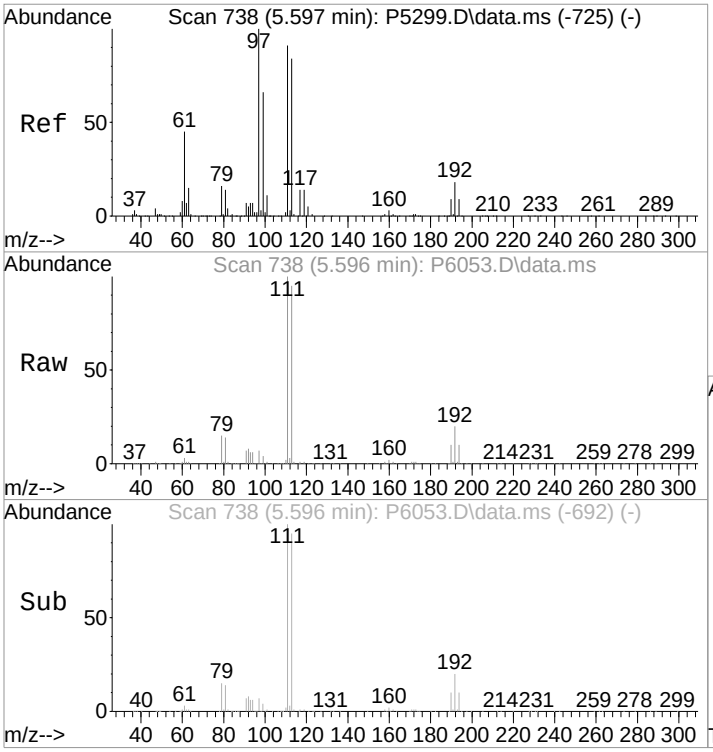


#34
cis-1,2-Dichloroethene
Concen: 44.70 ppb
RT: 4.712 min Scan# 593
Delta R.T. -0.000 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 96 Resp: 276894

Ion	Ratio	Lower	Upper
96	100		
61	120.9	114.6	154.6

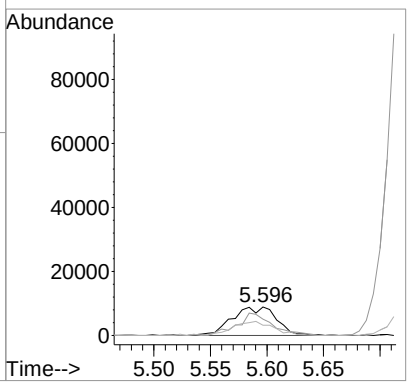


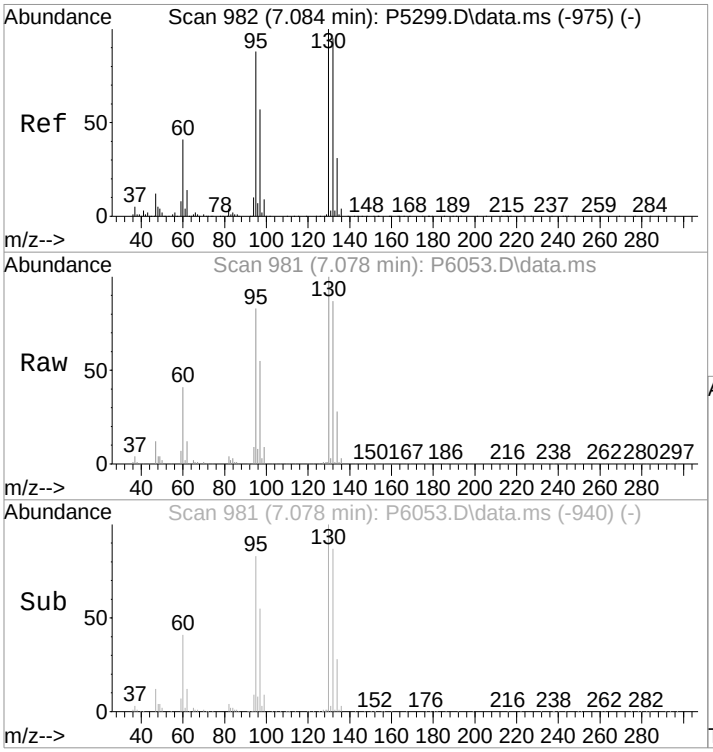


#41
1,1,1-Trichloroethane
Concen: 2.72 ppb m
RT: 5.596 min Scan# 738
Delta R.T. -0.000 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion: 97 Resp: 24640

Ion	Ratio	Lower	Upper
97	100		
99	57.3	46.2	86.2
61	35.5	25.3	65.3

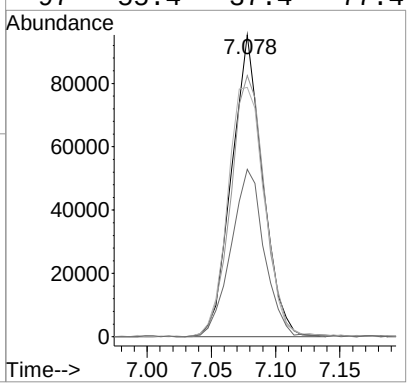




#54
Trichloroethene
Concen: 24.02 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6053.D
Acq: 28 Oct 2016 2:44 pm

Tgt Ion:130 Resp: 161361

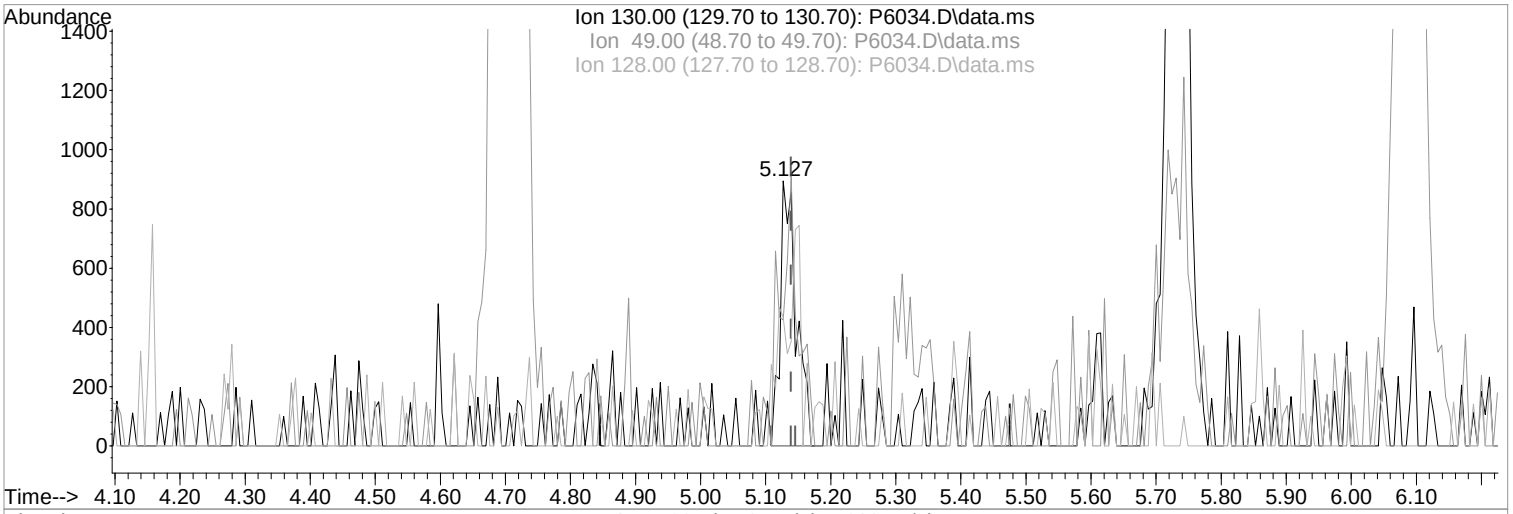
Ion	Ratio	Lower	Upper
130	100		
132	86.5	75.2	115.2
95	82.6	68.1	108.1
97	55.4	37.4	77.4

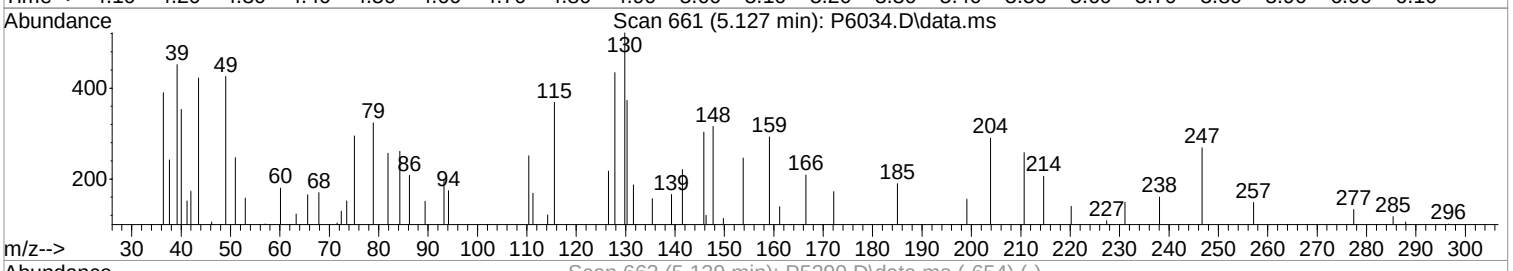


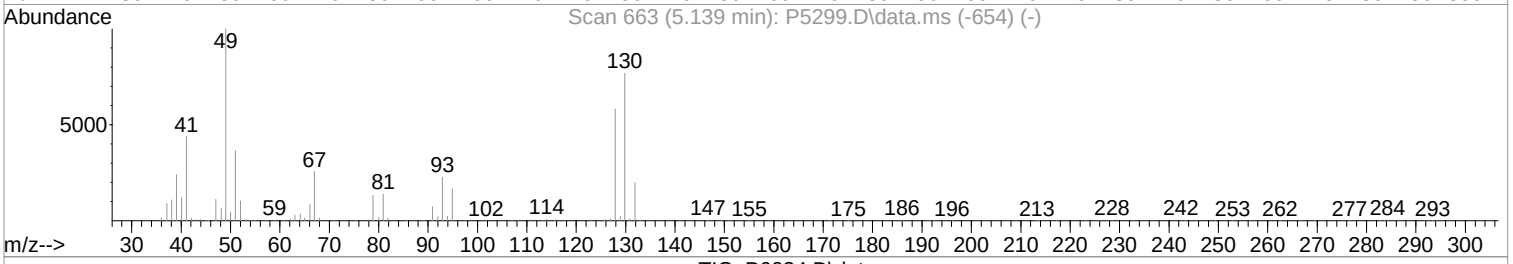
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6034.D
Acq On : 28 Oct 2016 4:24 am
Operator : K.Ruest
Sample : R1611185-029|250 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 28 09:09:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6034.D\data.ms

(37) Bromochloromethane

5.127min (-0.012) 0.43 ppb m

response 1531

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	81.61#
128.00	75.90	83.14
0.00	0.00	0.00

Manual Integration:

After

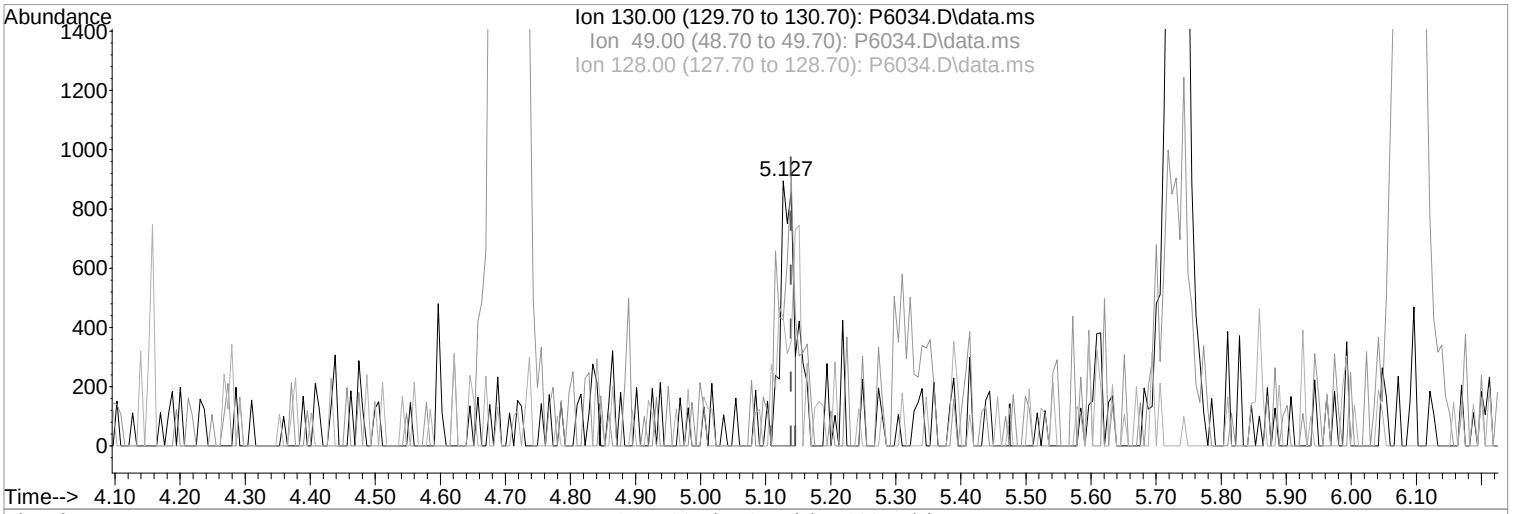
Split Peak

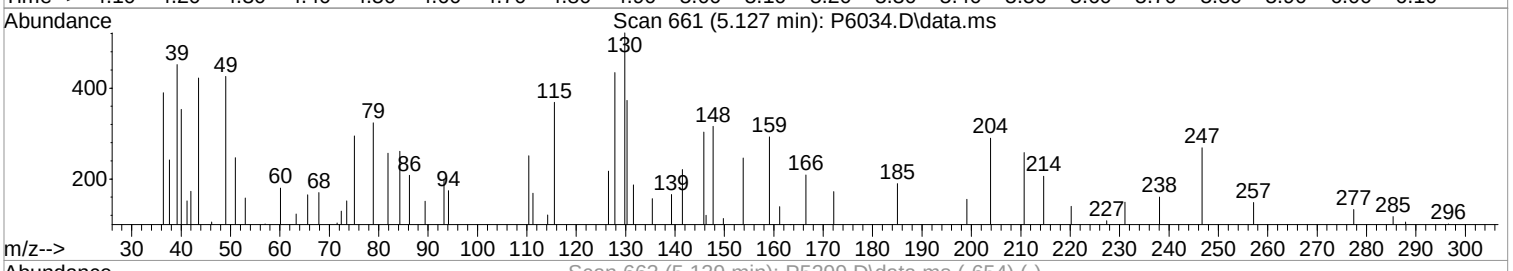
10/28/16

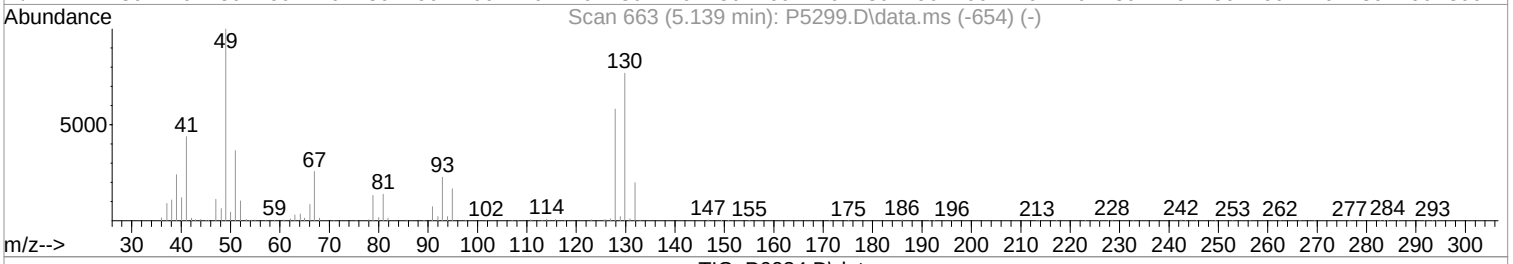
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6034.D
Acq On : 28 Oct 2016 4:24 am
Operator : K.Ruest
Sample : R1611185-029|250 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 28 09:09:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6034.D\data.ms

(37) Bromochloromethane

5.127min (-0.012) 0.34 ppb

response 1197

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	47.60#
128.00	75.90	48.49#
0.00	0.00	0.00

Manual Integration:

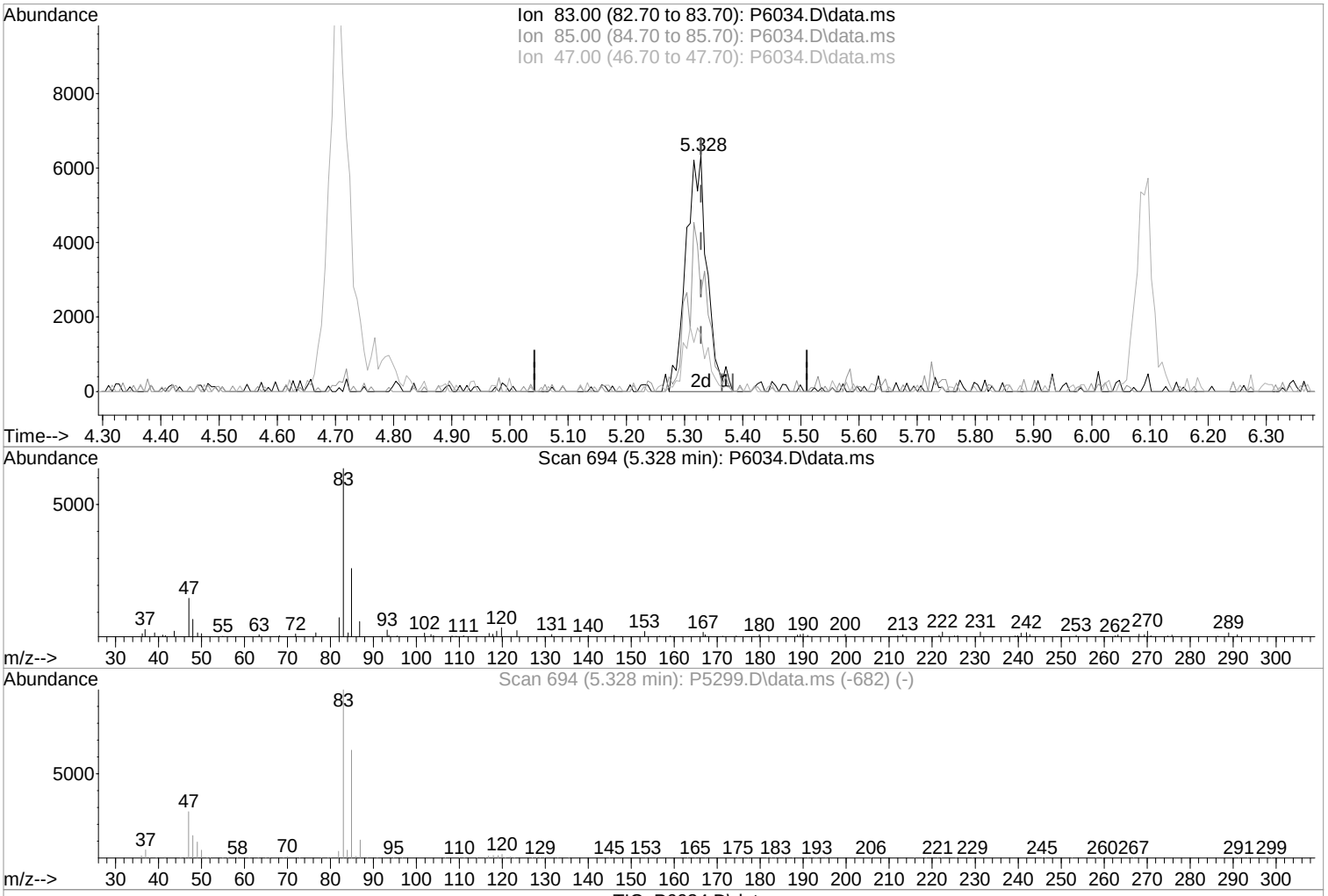
Before

10/28/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6034.D
Acq On : 28 Oct 2016 4:24 am
Operator : K.Ruest
Sample : R1611185-029|250 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 28 09:09:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6034.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 1.64 ppb m

response 16026

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	41.36#
47.00	27.40	24.04
0.00	0.00	0.00

Manual Integration:

After

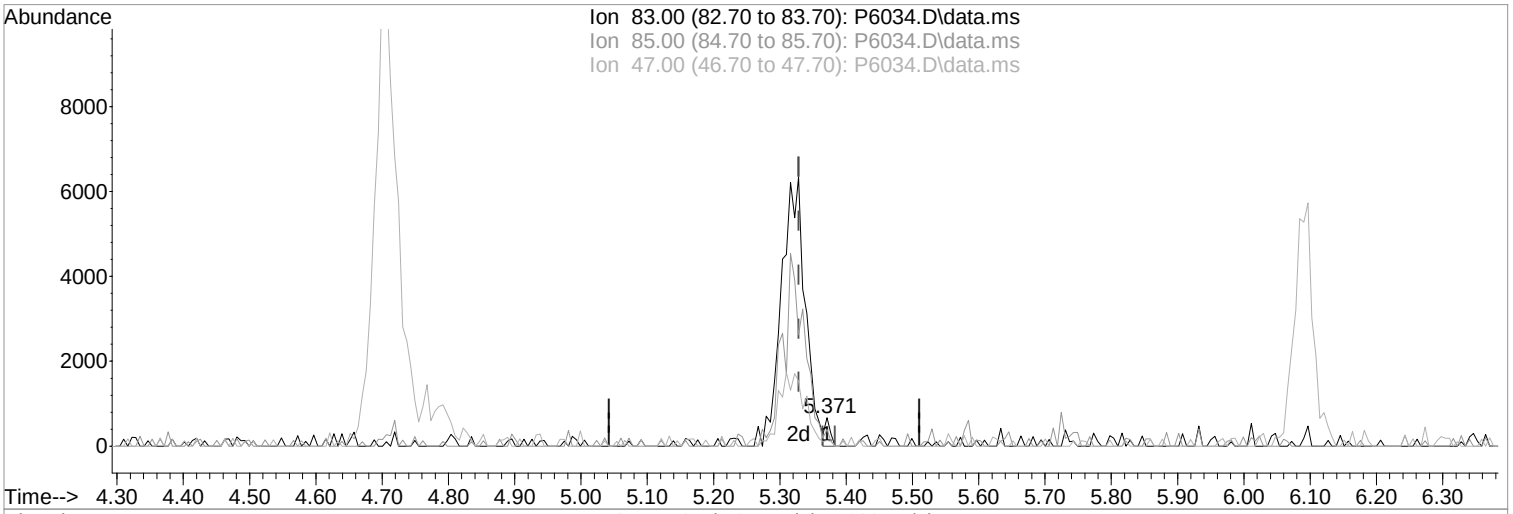
Split Peak

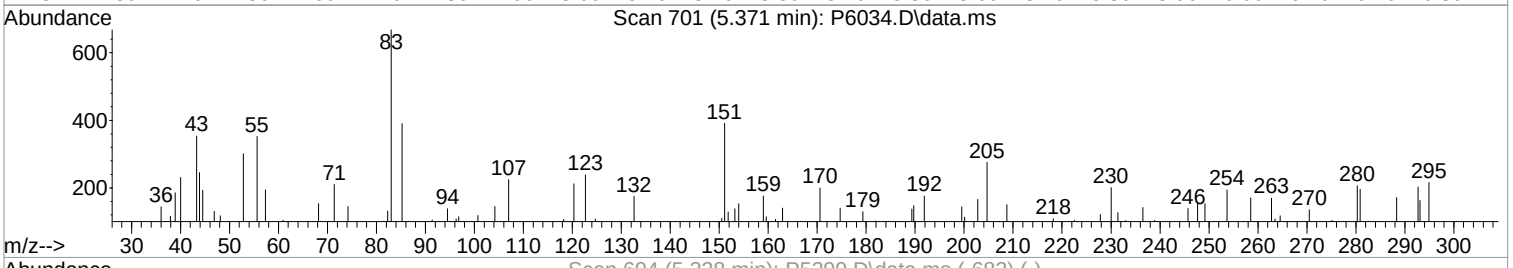
10/28/16

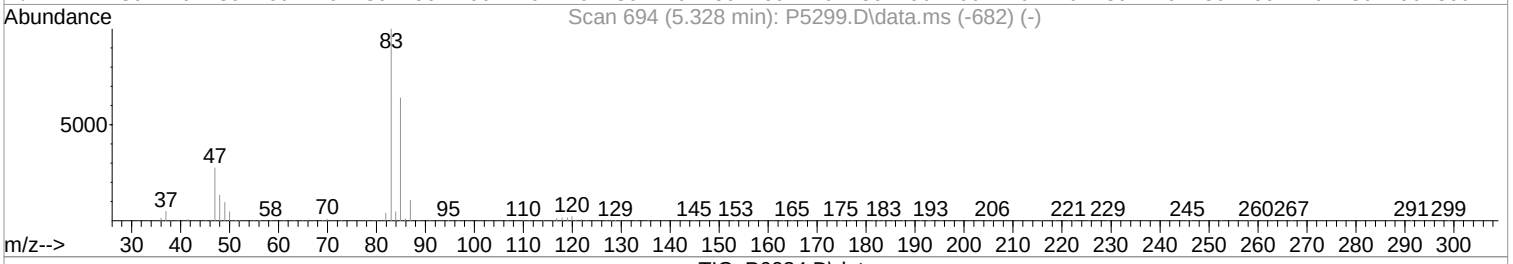
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6034.D
Acq On : 28 Oct 2016 4:24 am
Operator : K.Ruest
Sample : R1611185-029|250 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 28 09:09:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6034.D\data.ms

(40) Chloroform (P)

5.371min (+0.043) 0.04 ppb

response 353

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	58.38
47.00	27.40	19.61
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6034.D
Acq On : 28 Oct 2016 4:24 am
Operator : K.Ruest
Sample : R1611185-029|250 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 28 16:47:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

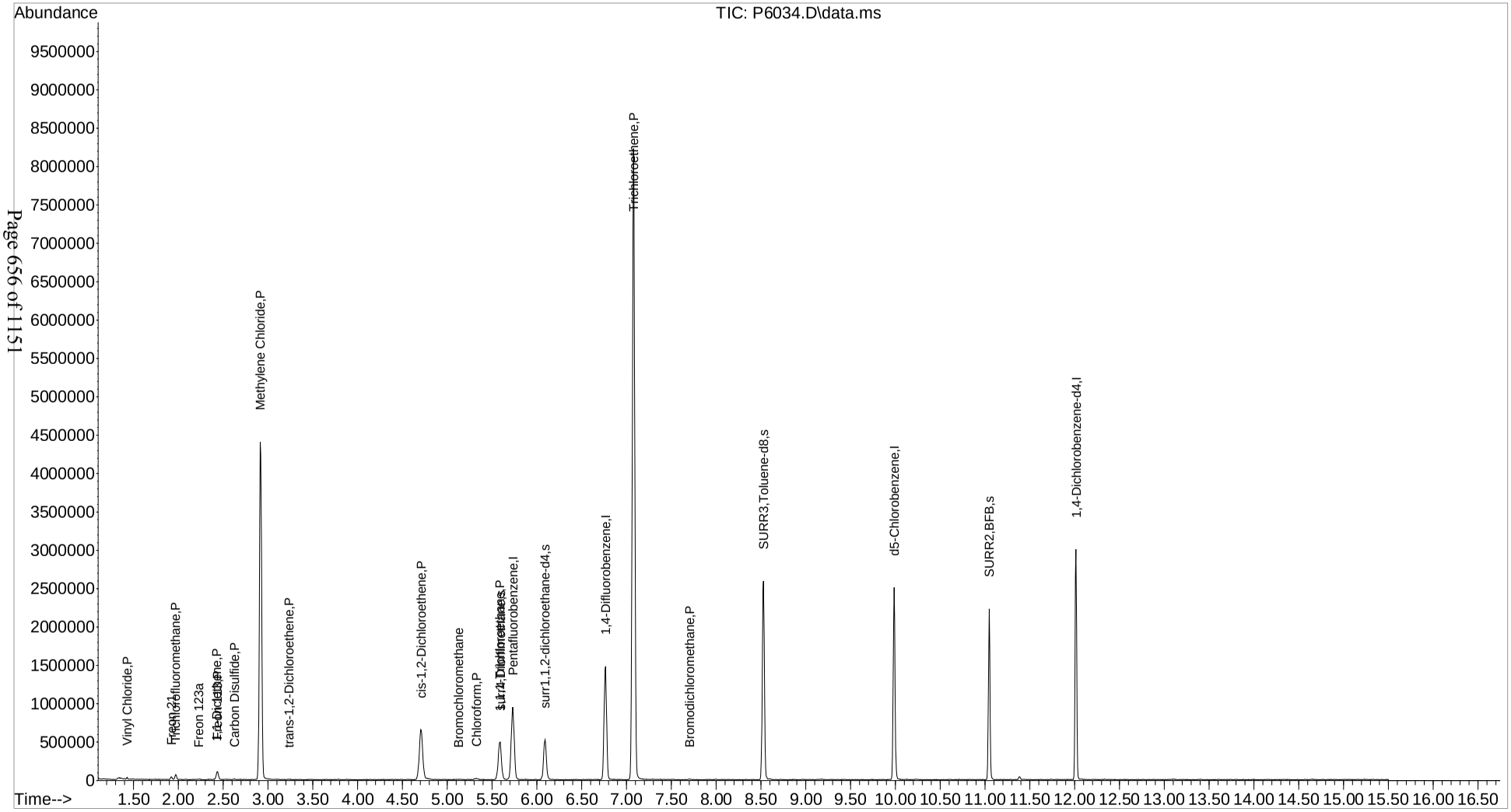
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.731	168	772878	50.00	ppb		0.00	
43) 1,4-Difluorobenzene	6.767	114	1248973	50.00	ppb		0.00	
71) d5-Chlorobenzene	9.986	117	1166225	50.00	ppb		0.00	
86) 1,4-Dichlorobenzene-d4	12.016	152	595334	50.00	ppb		0.00	
System Monitoring Compounds								
45) surr4,Dibrflmethane	5.590	113	365083	54.77	ppb		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.54%					
48) surr1,1,2-dichloroetha...	6.090	65	410248	54.18	ppb		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.36%					
65) SURR3,Toluene-d8	8.529	98	1580077	57.85	ppb		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 115.70%					
70) SURR2,BFB	11.047	95	565348	53.05	ppb		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.10%					
Target Compounds							Qvalue	
4) Vinyl Chloride	1.427	62	9533	1.56	ppb	#	9	
5) Bromomethane	1.670	94	336	Below Cal		#	47	
7) Freon 21	1.920	67	21175	2.62	ppb		86	
8) Trichlorofluoromethane	1.969	101	37675	5.32	ppb		96	
10) Freon 123a	2.225	67	1764	0.36	ppb	#	70	
13) 1,1-Diclethene	2.426	96	2301	0.43	ppb	#	59	
14) Freon 113	2.433	101	39105	6.86	ppb		89	
18) Carbon Disulfide	2.628	76	7503	0.44	ppb		91	
22) Methylene Chloride	2.914	84	1868762	329.71	ppb		96	E-Over Calibration
26) trans-1,2-Dichloroethene	3.231	96	1286	0.21	ppb	#	59	
34) cis-1,2-Dichloroethene	4.706	96	414971	67.28	ppb		90	
37) Bromochloromethane	5.127	130	1531m	0.43	ppb			
40) Chloroform	5.328	83	16026m	1.64	ppb			
41) 1,1,1-Trichloroethane	5.584	97	8274	0.92	ppb	#	80	
54) Trichloroethene	7.078	130	2969623	450.31	ppb		98	E-Over Calibration
60) Bromodichloromethane	7.700	83	4055	0.51	ppb		88	

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

Quantitation Report (QT Reviewed)

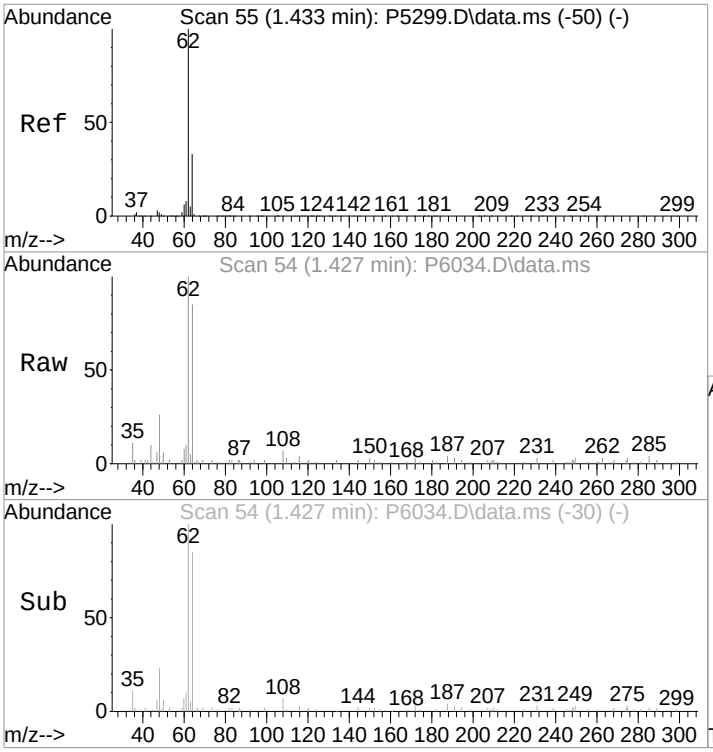
Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6034.D
Acq On : 28 Oct 2016 4:24 am
Operator : K.Ruest
Sample : R1611185-029|250 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 28 16:47:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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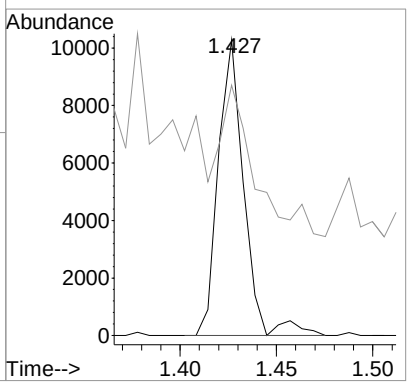
1st 10/31/16
2nd 10/31/16

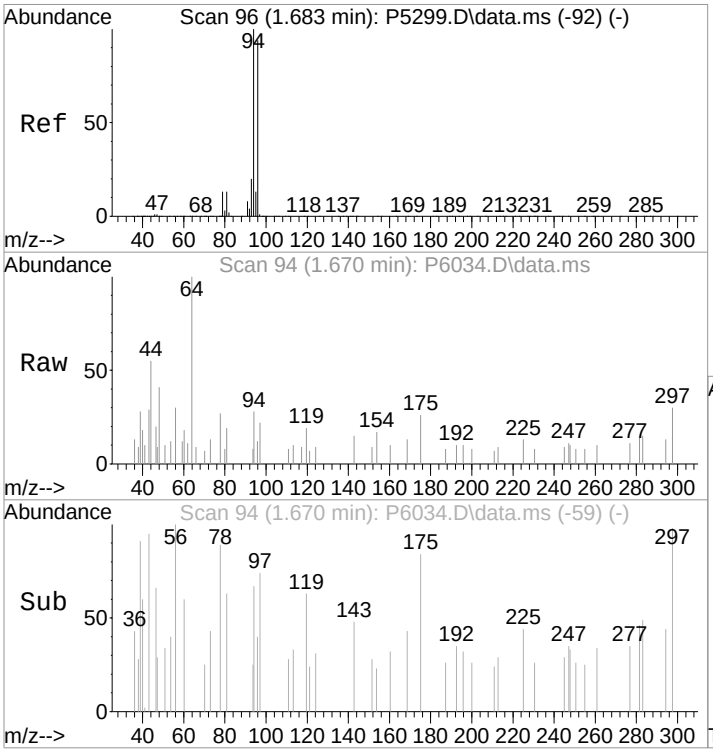


#4
Vinyl Chloride
Concen: 1.56 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 62 Resp: 9533

Ion	Ratio	Lower	Upper
62	100		
64	84.7	13.1	53.1#

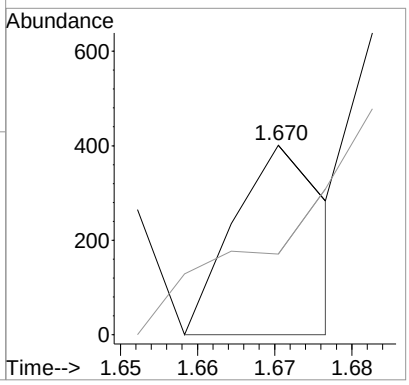


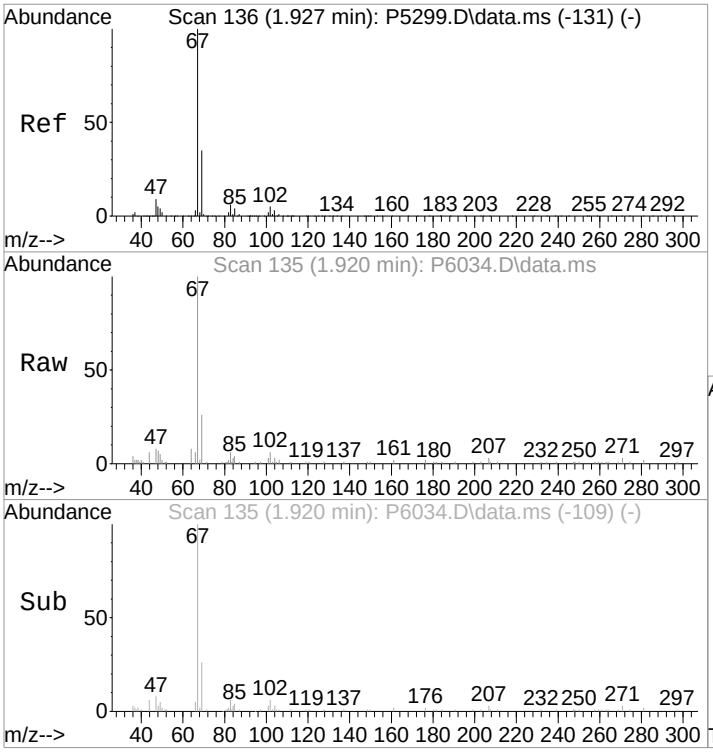


#5
Bromomethane
Concen: Below Cal
RT: 1.670 min Scan# 94
Delta R.T. -0.012 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 94 Resp: 336

Ion	Ratio	Lower	Upper
94	100		
96	42.6	73.8	113.8#

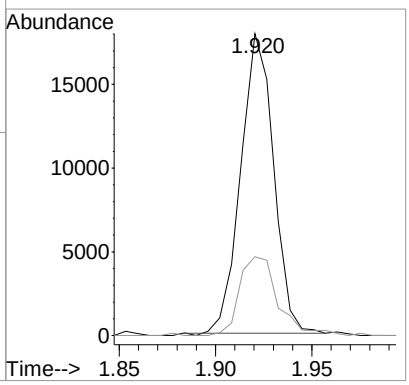


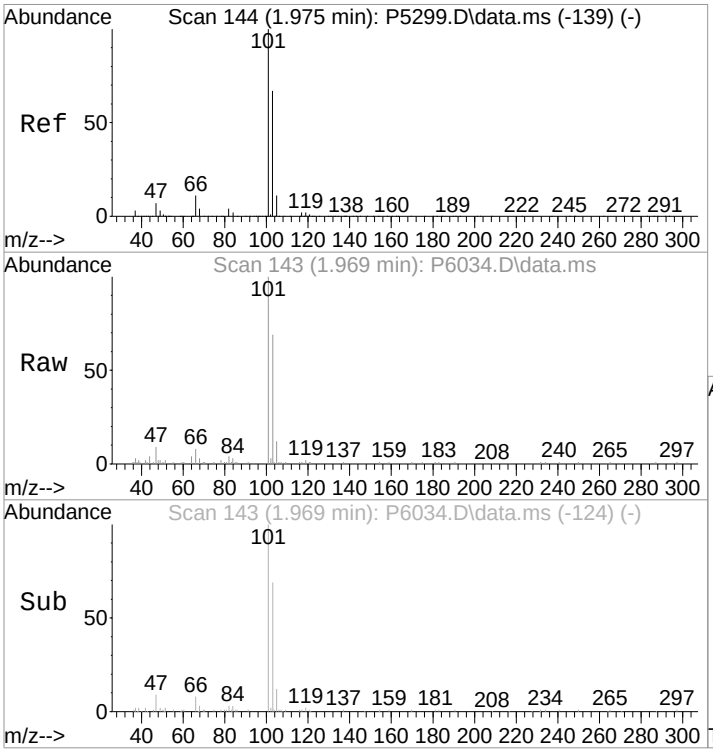


#7
Freon 21
Concen: 2.62 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 67 Resp: 21175

Ion	Ratio	Lower	Upper
67	100		
69	26.1	14.4	54.4

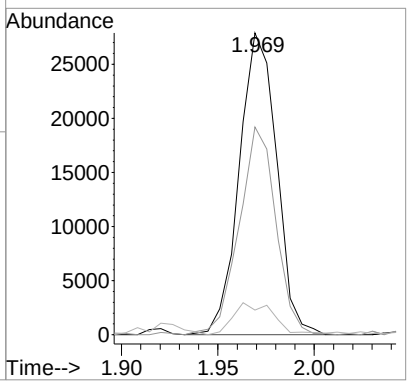


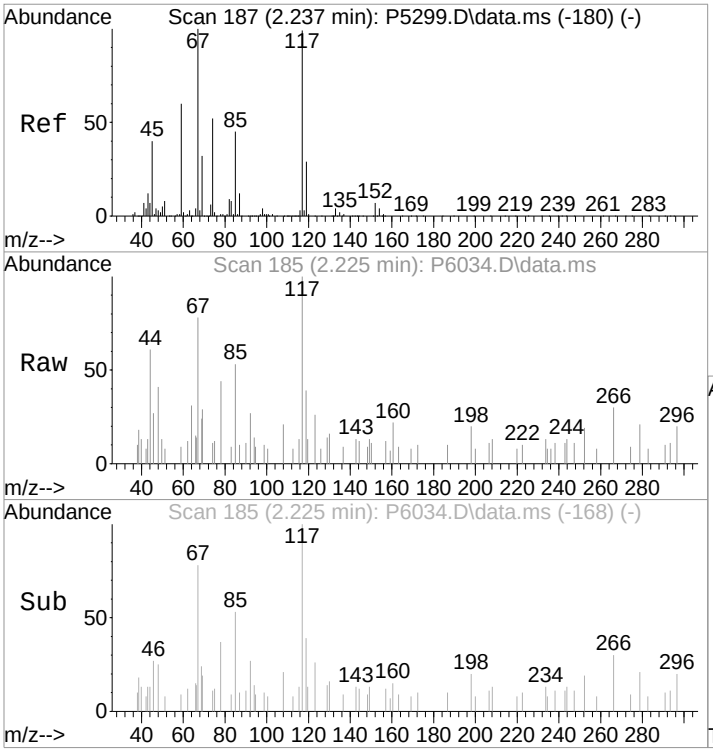


#8
Trichlorofluoromethane
Concen: 5.32 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion:101 Resp: 37675

Ion	Ratio	Lower	Upper
101	100		
103	69.5	47.3	87.3
66	8.2	0.0	31.5

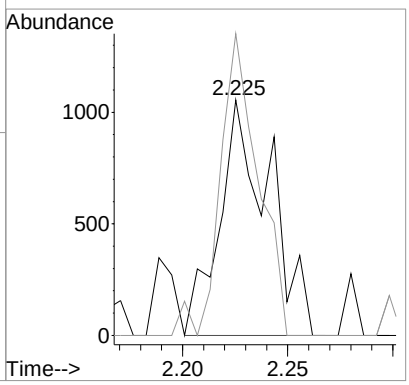


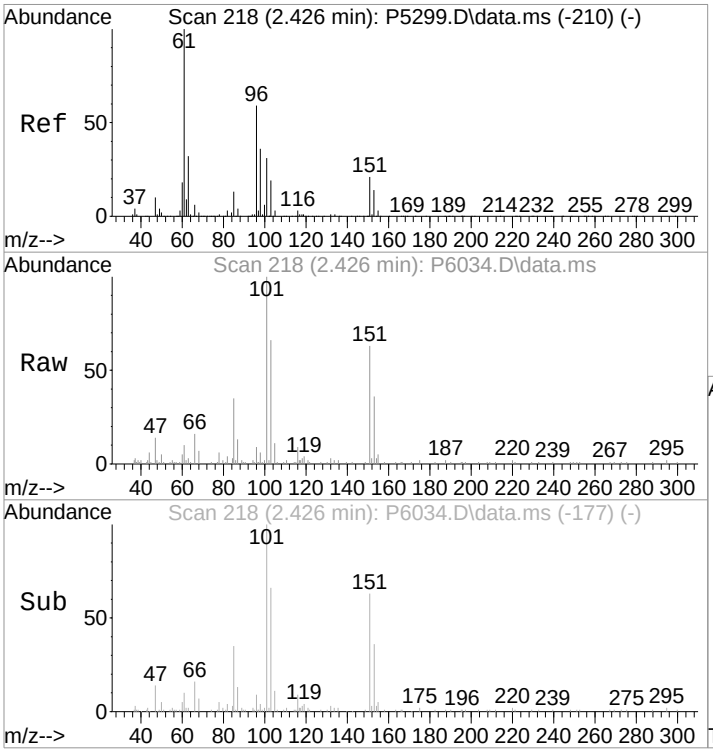


#10
Freon 123a
Concen: 0.36 ppb
RT: 2.225 min Scan# 185
Delta R.T. -0.012 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 67 Resp: 1764

Ion	Ratio	Lower	Upper
67	100		
117	128.1	78.8	118.8#

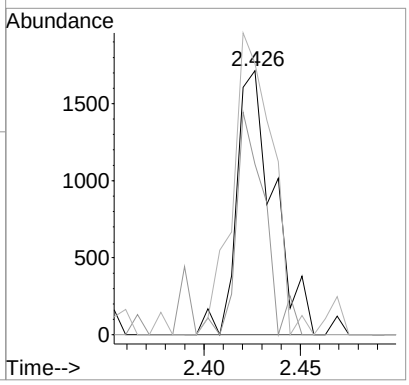


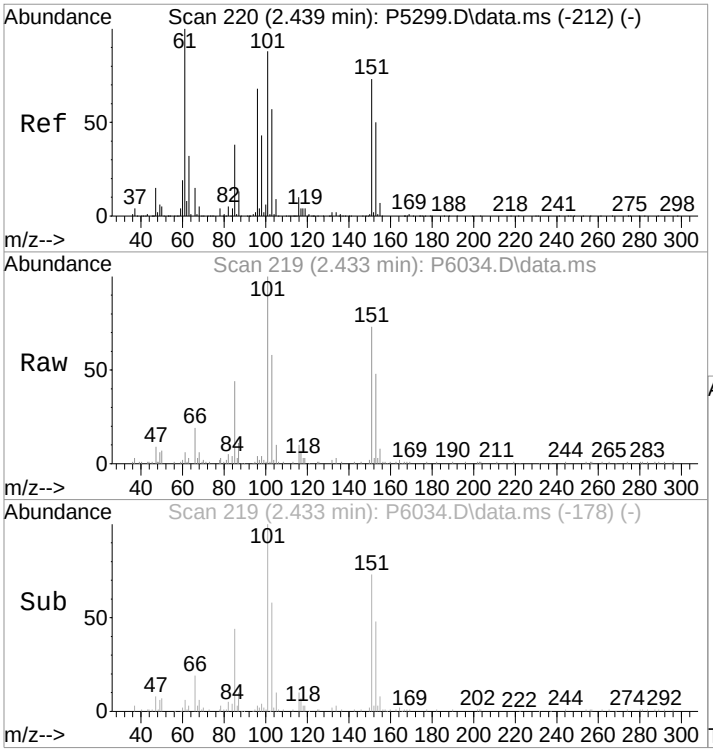


#13
1,1-Diclethene
Concen: 0.43 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 96 Resp: 2301

Ion	Ratio	Lower	Upper
96	100		
98	59.7	41.8	81.8
61	95.0	150.1	190.1#

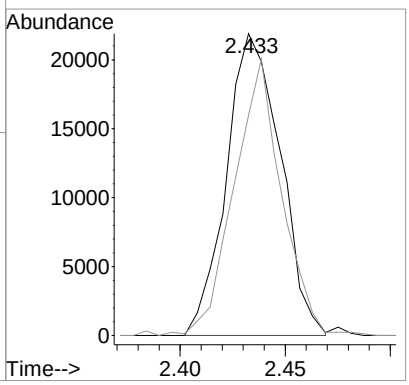


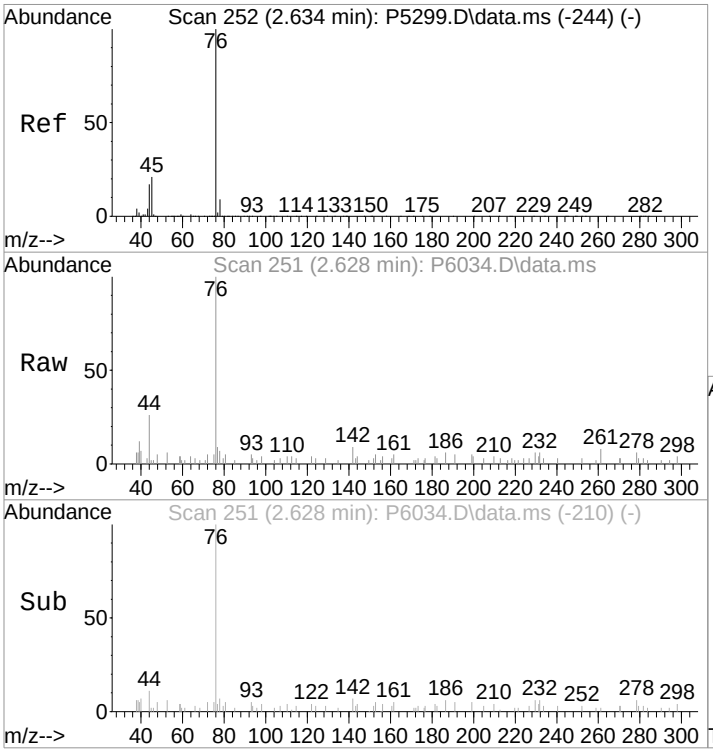


#14
Freon 113
Concen: 6.86 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion:101 Resp: 39105

Ion	Ratio	Lower	Upper
101	100		
151	73.0	62.6	102.6

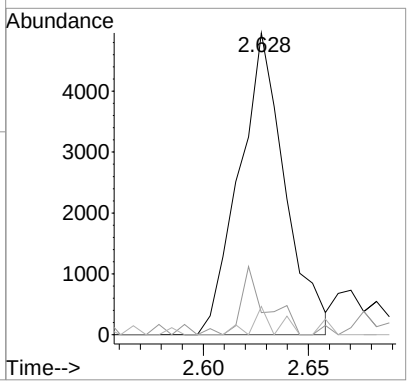


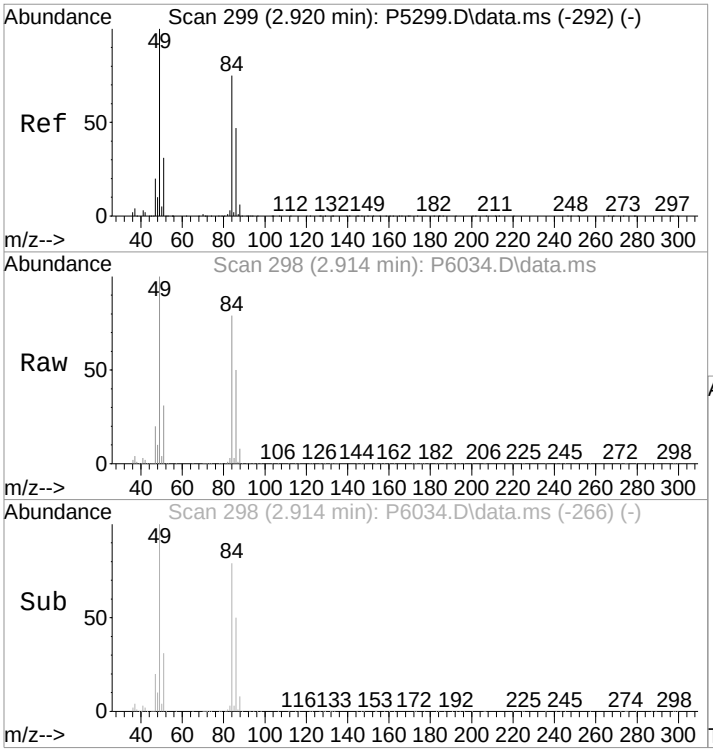


#18
Carbon Disulfide
Concen: 0.44 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 76 Resp: 7503

Ion	Ratio	Lower	Upper
76	100		
78	7.3	0.0	29.3
77	9.3	0.0	22.5

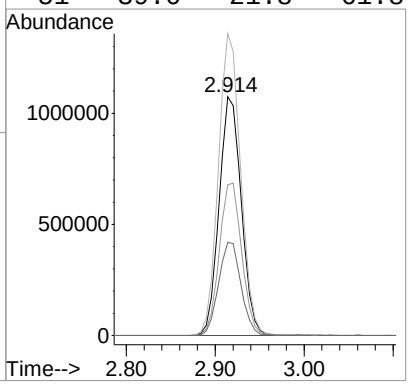


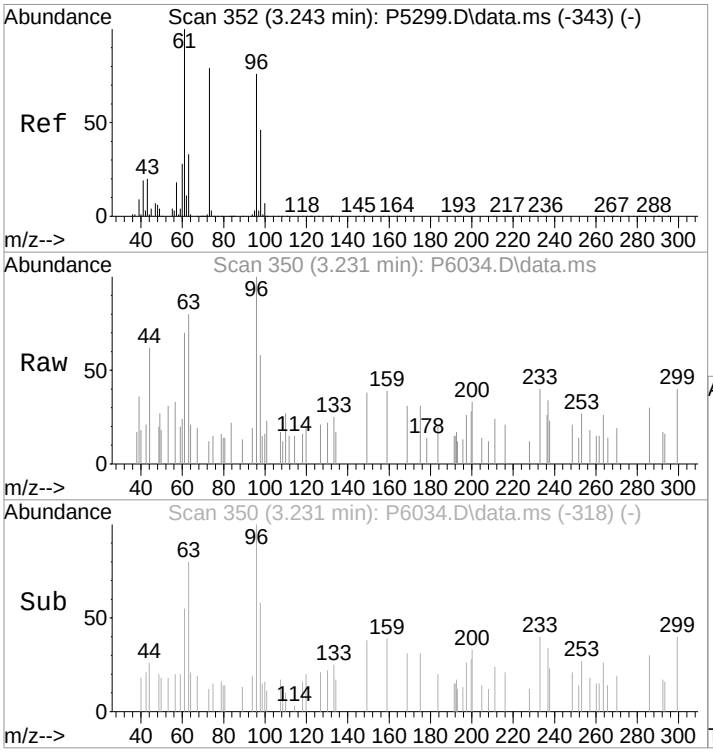


#22
Methylene Chloride
Concen: 329.71 ppb
RT: 2.914 min Scan# 298
Delta R.T. -0.006 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 84 Resp: 1868762

Ion	Ratio	Lower	Upper
84	100		
86	63.1	42.8	82.8
49	126.4	113.9	153.9
51	39.0	21.8	61.8

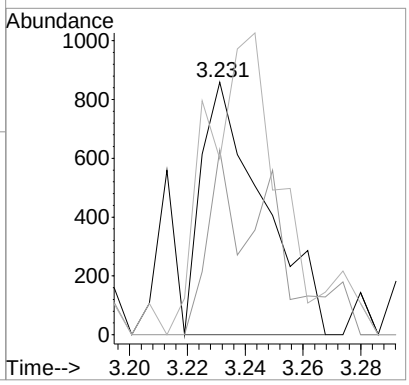


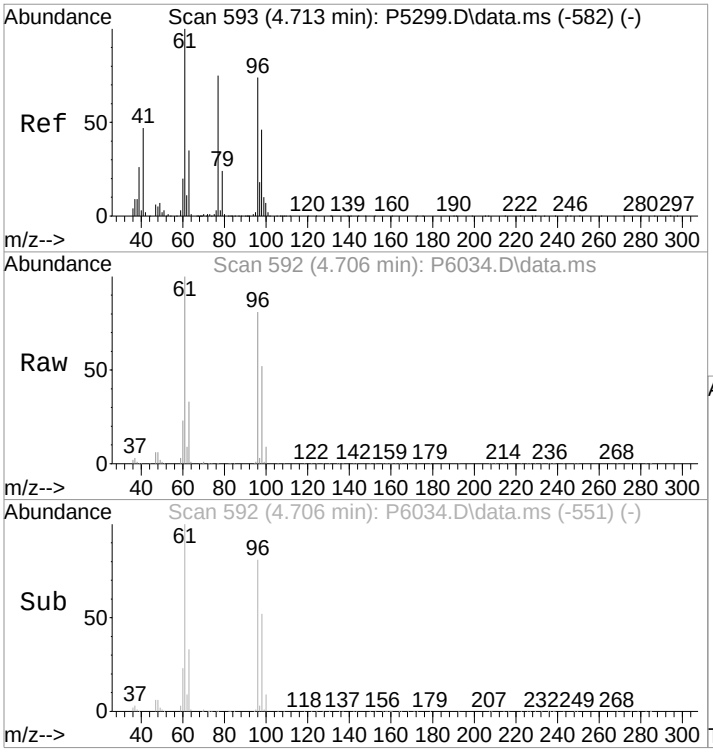


#26
trans-1,2-Dichloroethene
Concen: 0.21 ppb
RT: 3.231 min Scan# 350
Delta R.T. -0.012 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 96 Resp: 1286

Ion	Ratio	Lower	Upper
96	100		
98	73.1	41.0	81.0
61	69.7	112.4	152.4#

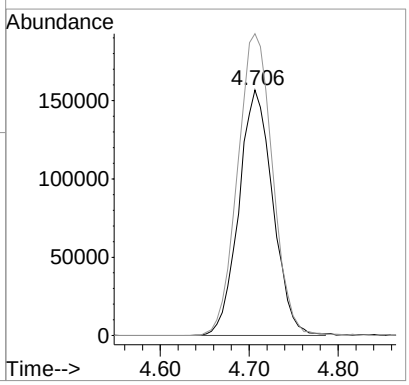


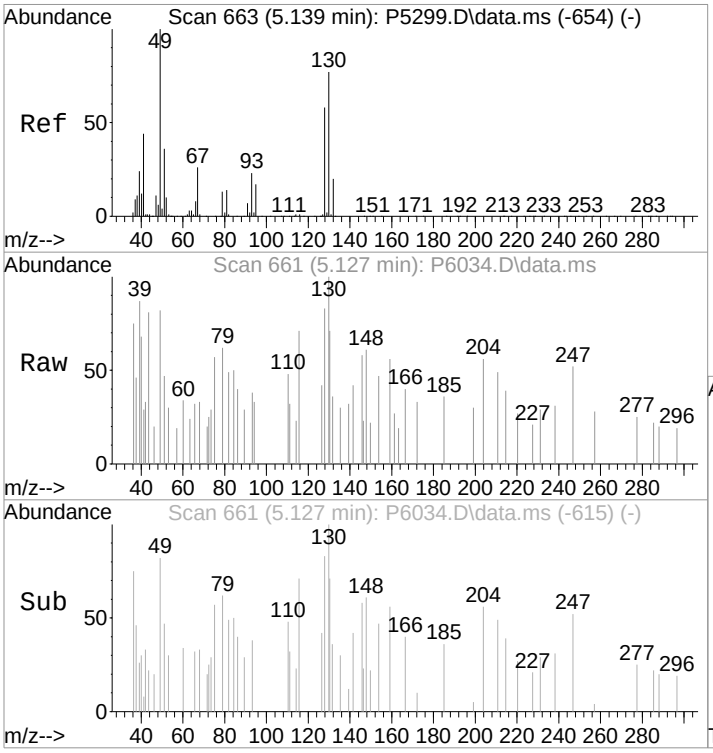


#34
cis-1,2-Dichloroethene
Concen: 67.28 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 96 Resp: 414971

Ion	Ratio	Lower	Upper
96	100		
61	123.0	114.6	154.6

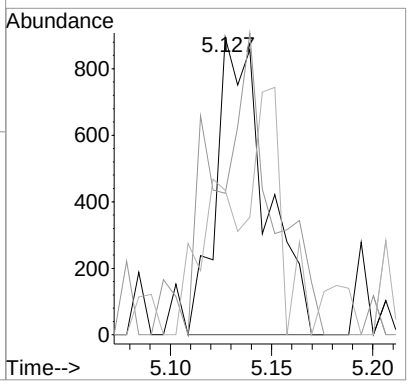


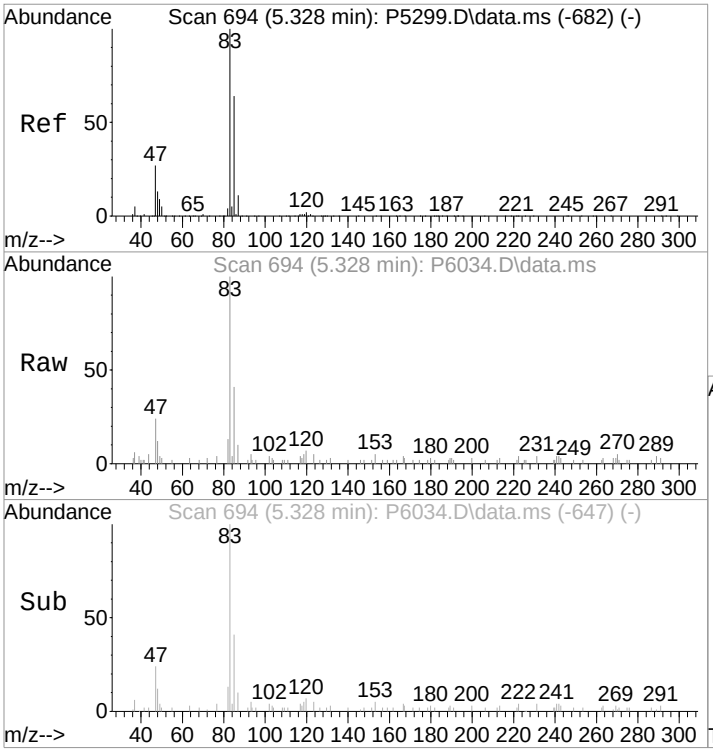


#37
Bromochloromethane
Concen: 0.43 ppb m
RT: 5.127 min Scan# 661
Delta R.T. -0.012 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion:130 Resp: 1531

Ion	Ratio	Lower	Upper
130	100		
49	81.6	110.3	150.3#
128	83.1	55.9	95.9

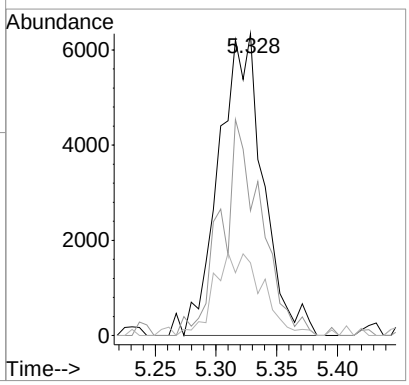


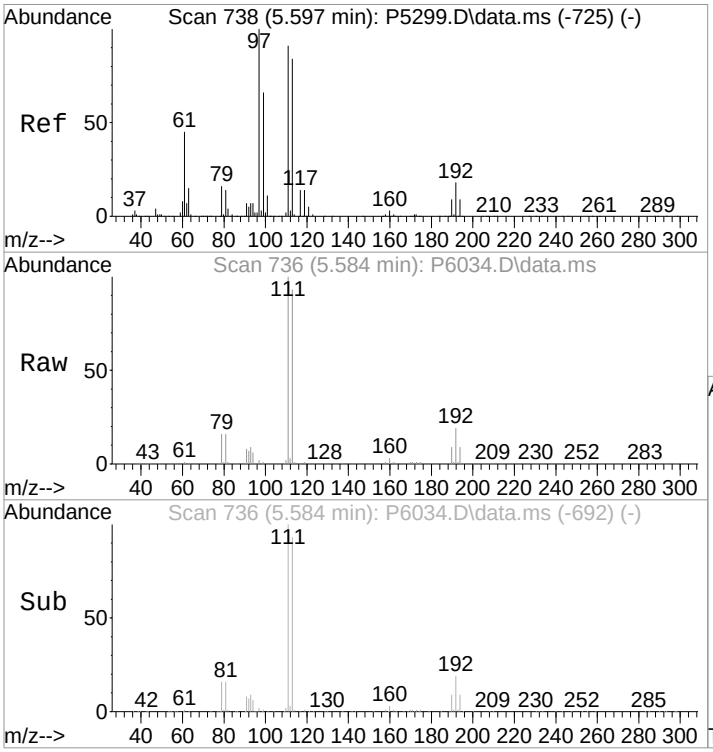


#40
Chloroform
Concen: 1.64 ppb m
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 83 Resp: 16026

Ion	Ratio	Lower	Upper
83	100		
85	41.4	44.1	84.1#
47	24.0	7.4	47.4

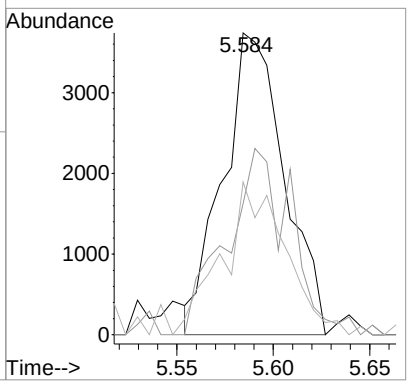


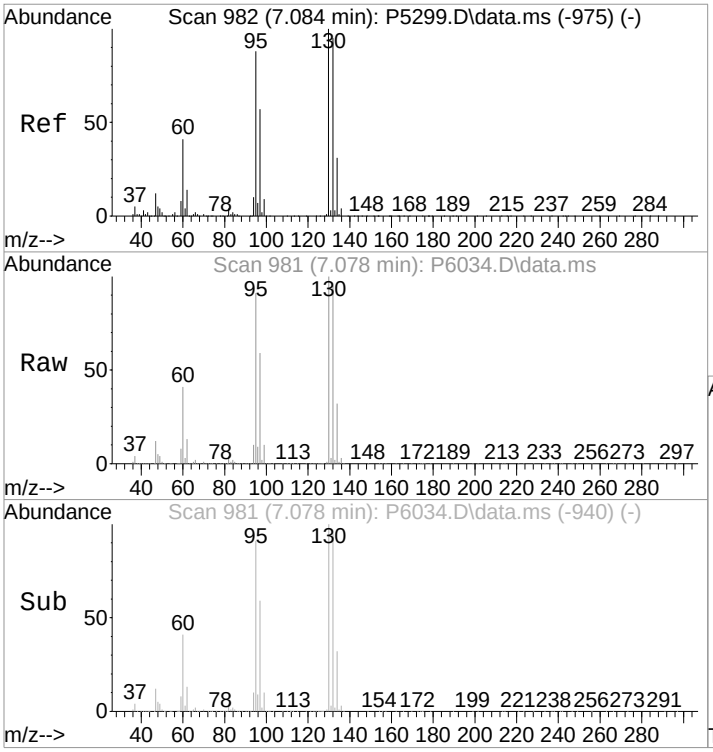


#41
1,1,1-Trichloroethane
Concen: 0.92 ppb
RT: 5.584 min Scan# 736
Delta R.T. -0.012 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 97 Resp: 8274

Ion	Ratio	Lower	Upper
97	100		
99	43.5	46.2	86.2#
61	50.5	25.3	65.3

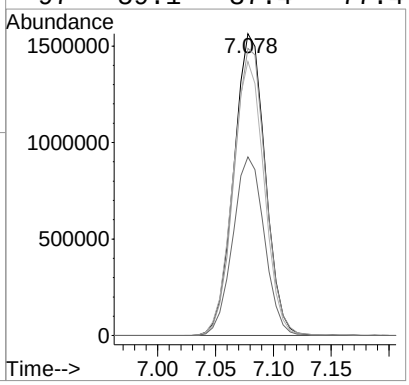


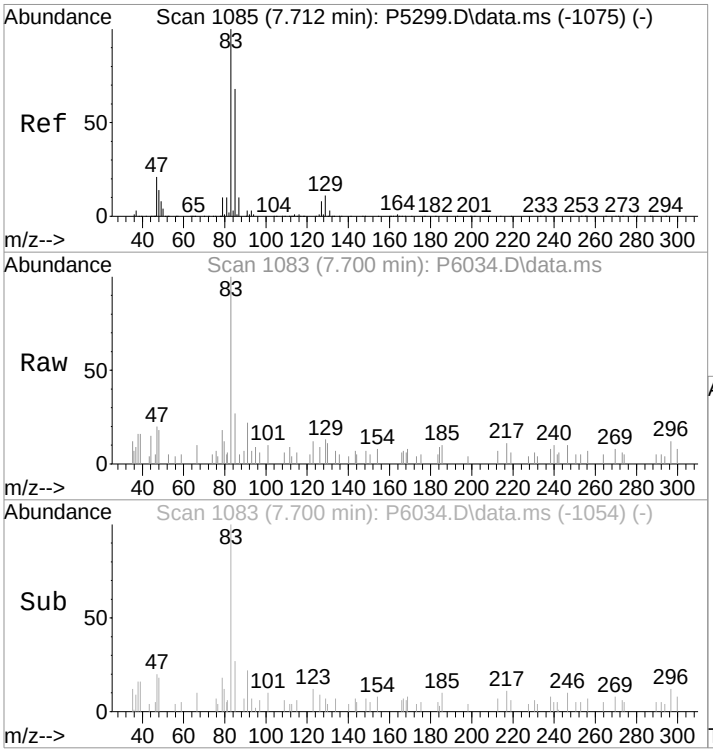


#54
Trichloroethene
Concen: 450.31 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion:130 Resp: 2969623

Ion	Ratio	Lower	Upper
130	100		
132	95.1	75.2	115.2
95	90.7	68.1	108.1
97	59.1	37.4	77.4

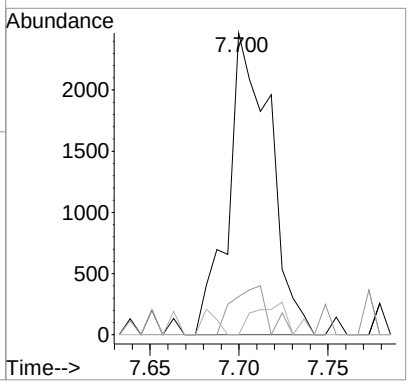




#60
Bromodichloromethane
Concen: 0.51 ppb
RT: 7.700 min Scan# 1083
Delta R.T. -0.012 min
Lab File: P6034.D
Acq: 28 Oct 2016 4:24 am

Tgt Ion: 83 Resp: 4055

Ion	Ratio	Lower	Upper
83	100		
129	12.6	0.0	31.2
127	0.0	0.0	28.0

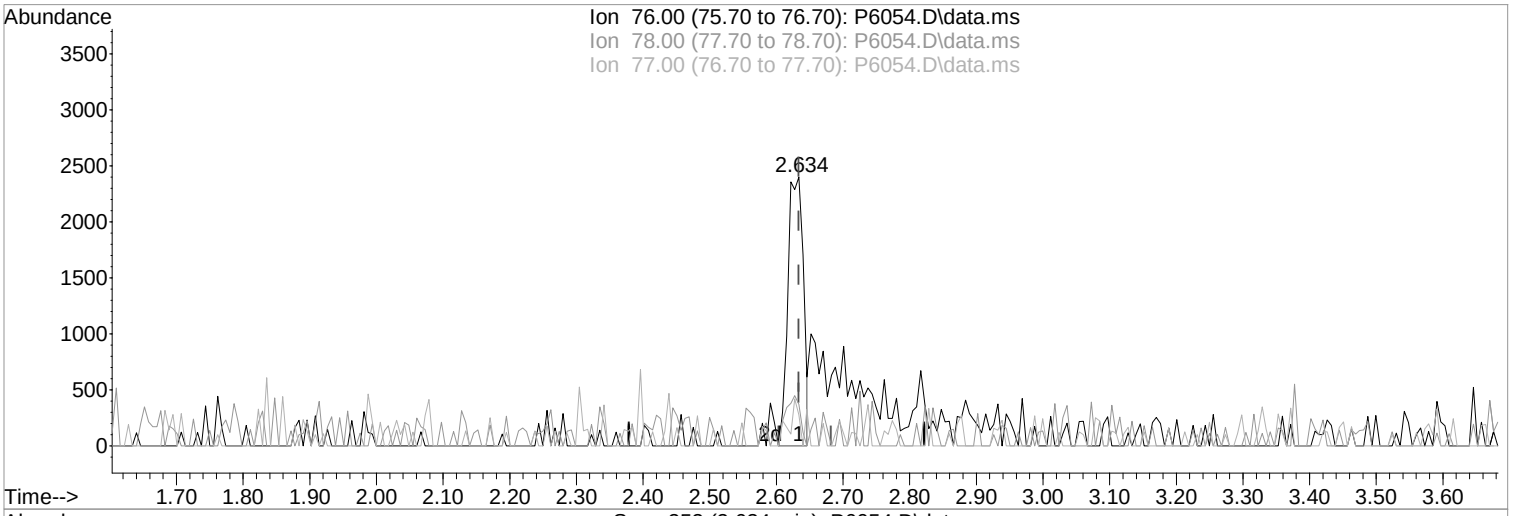


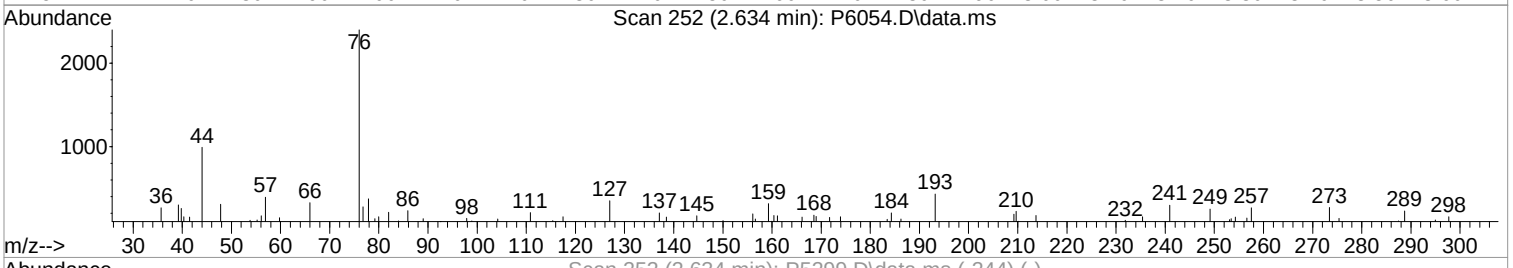
1st 10/31/16
2nd 10/31/16

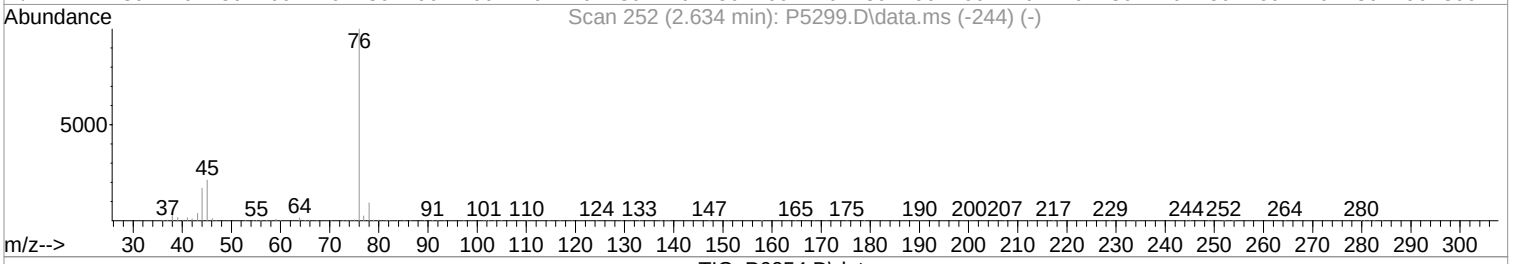
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest
Sample : R1611885-029|1000 (11185) Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 15:47:54 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6054.D\data.ms

(18) Carbon Disulfide (P)

2.634min (-0.000) 0.23 ppb m

response 3897

Ion	Exp%	Act%
76.00	100	100
78.00	9.30	15.54
77.00	2.50	11.63
0.00	0.00	0.00

Manual Integration:

After

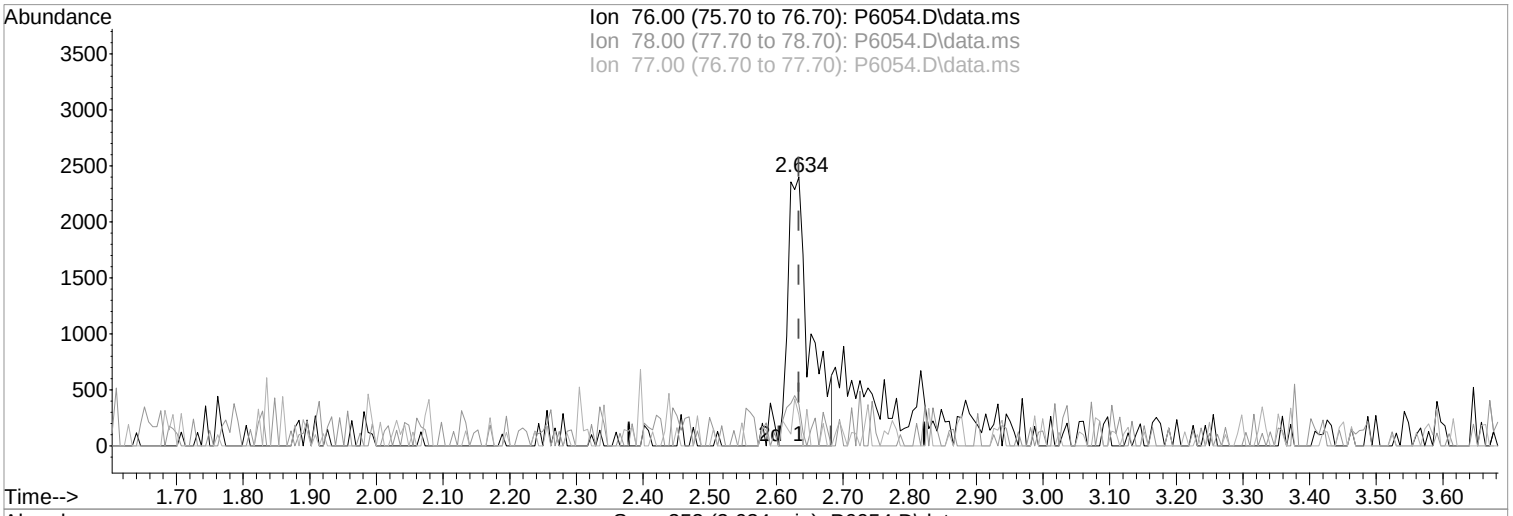
Poor integration.

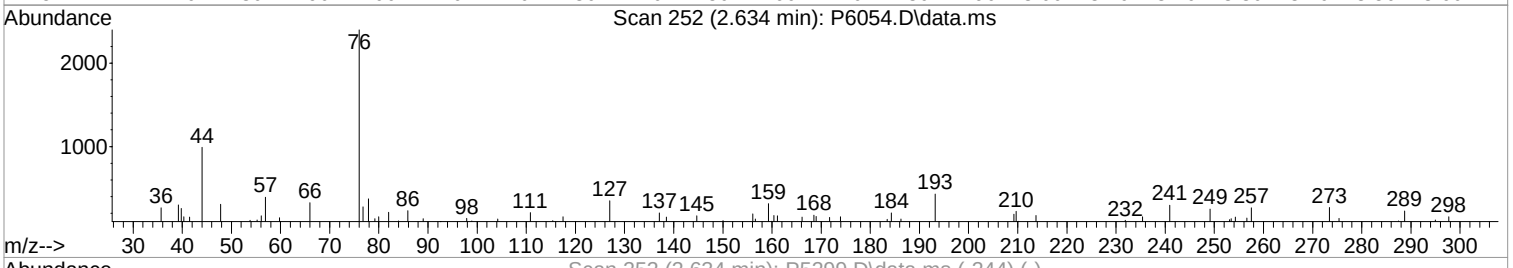
10/31/16

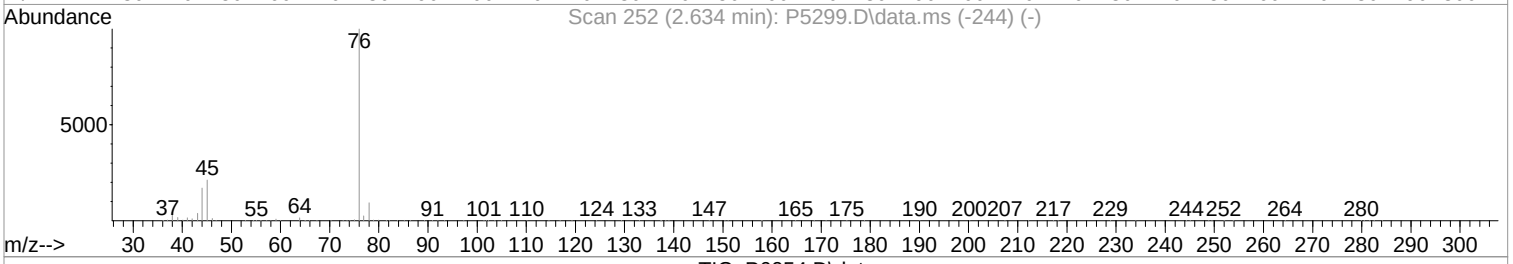
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-029|1000 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 15:47:54 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6054.D\data.ms

(18) Carbon Disulfide (P)

2.634min (-0.000) 0.33 ppb

response 5537

Ion	Exp%	Act%
76.00	100	100
78.00	9.30	15.54
77.00	2.50	11.63
0.00	0.00	0.00

Manual Integration:

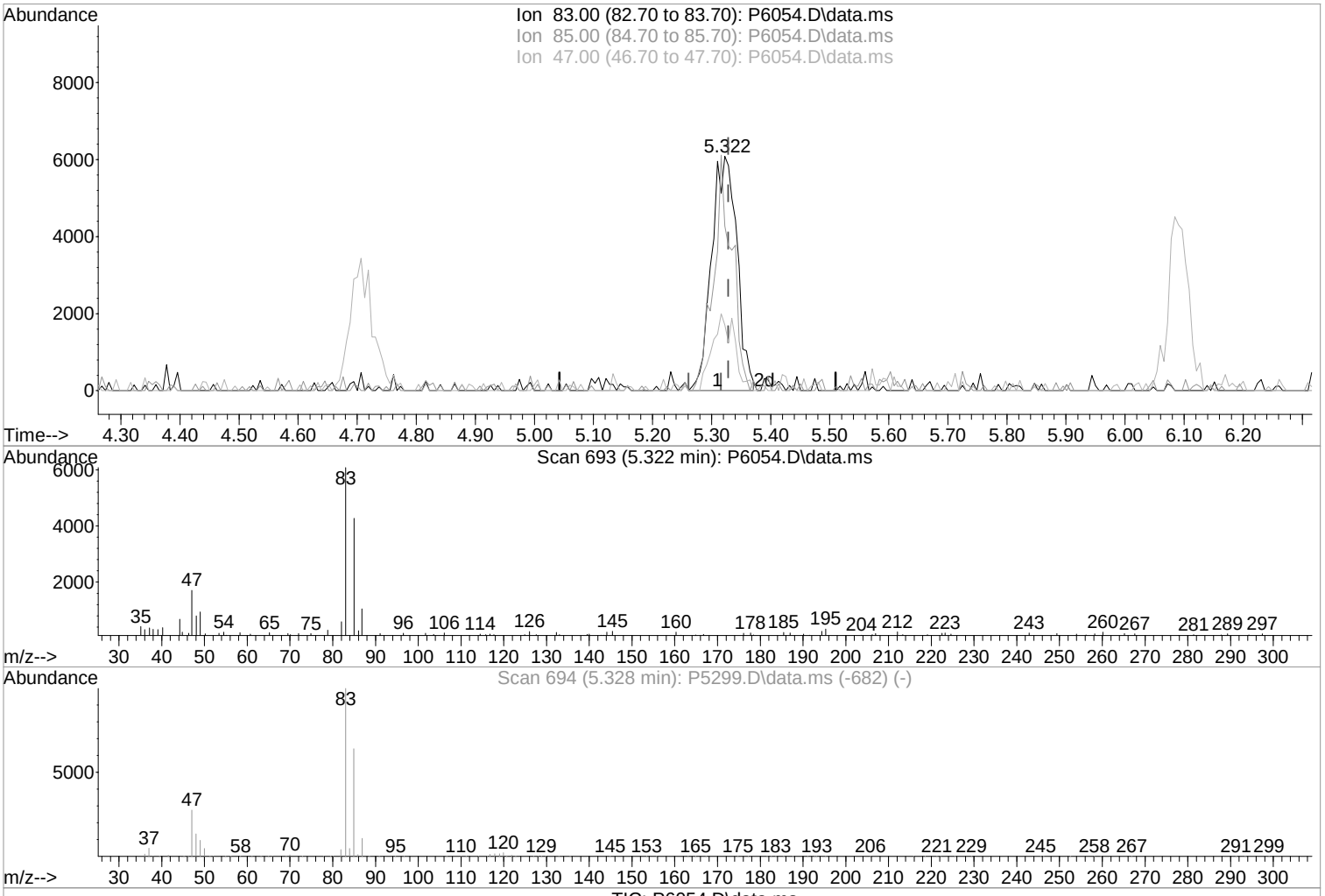
Before

10/31/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest 11185
Sample : R1611885-029|1000 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 15:47:54 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6054.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 1.87 ppb m

response 18106

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	70.18
47.00	27.40	28.02
0.00	0.00	0.00

Manual Integration:

After

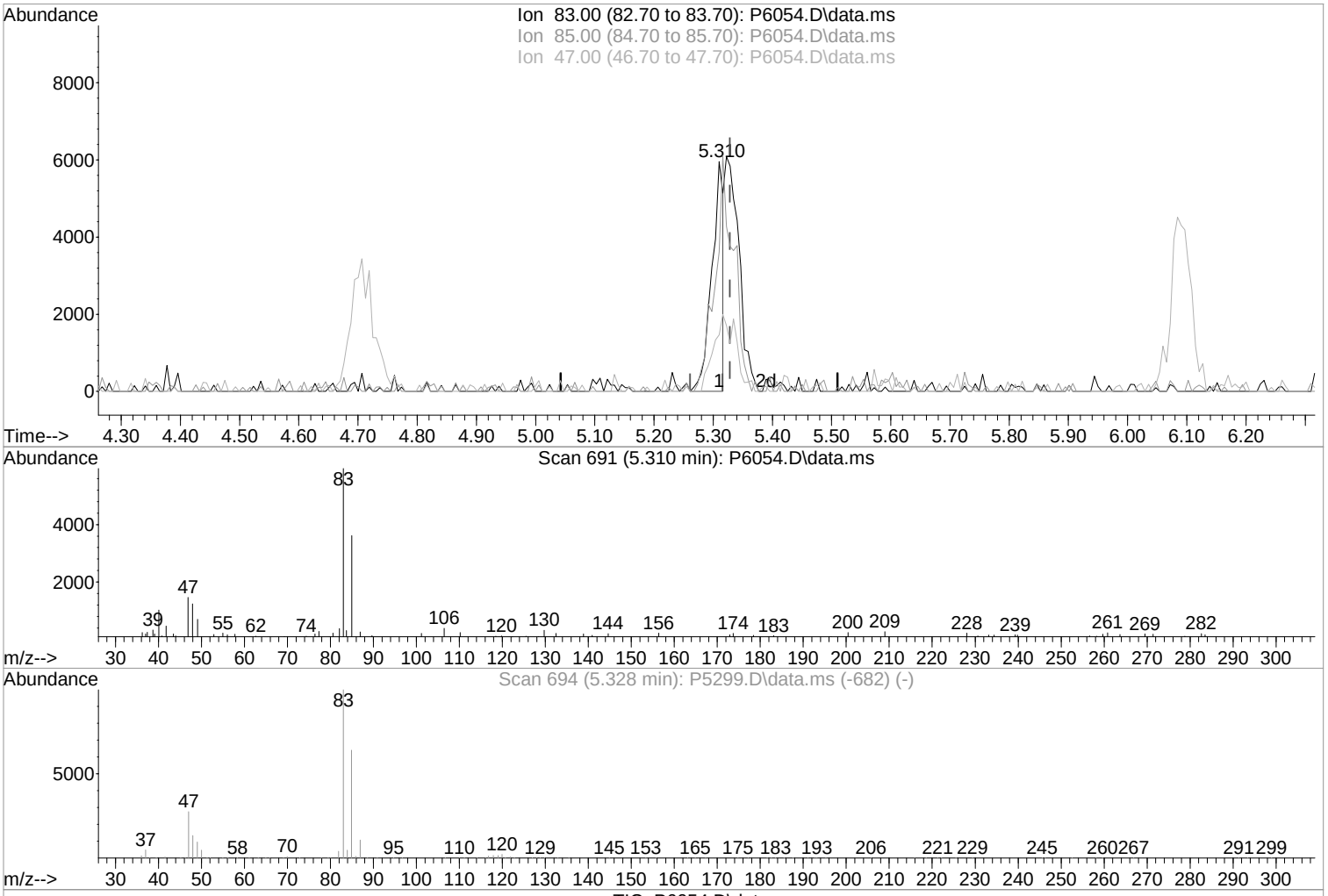
Split Peak

10/31/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-029|1000 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 15:47:54 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6054.D\data.ms

(40) Chloroform (P)

5.310min (-0.018) 0.83 ppb

response 8064

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	57.64
47.00	27.40	23.44
0.00	0.00	0.00

Manual Integration:

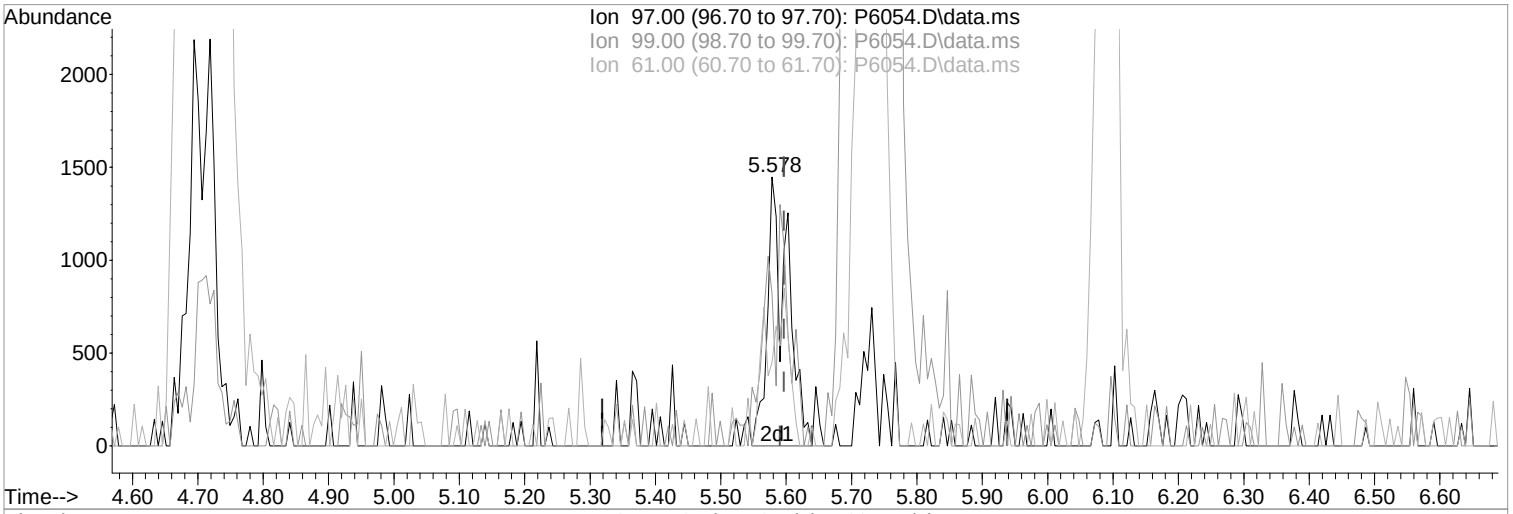
Before

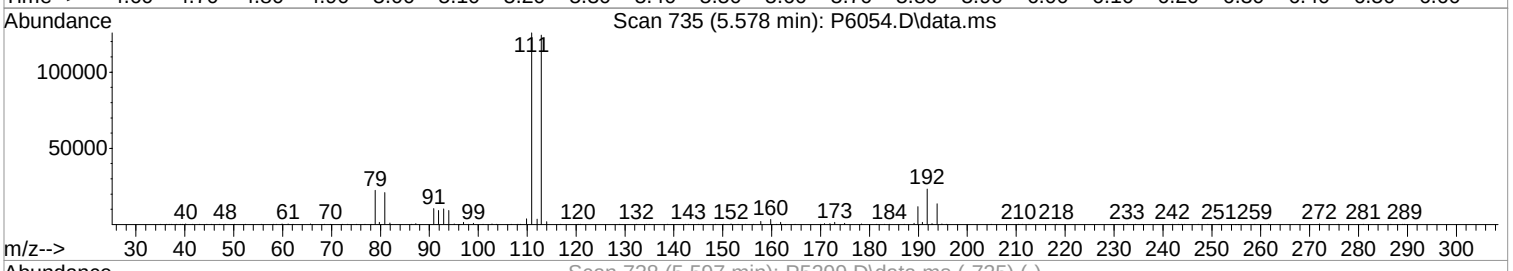
10/31/16

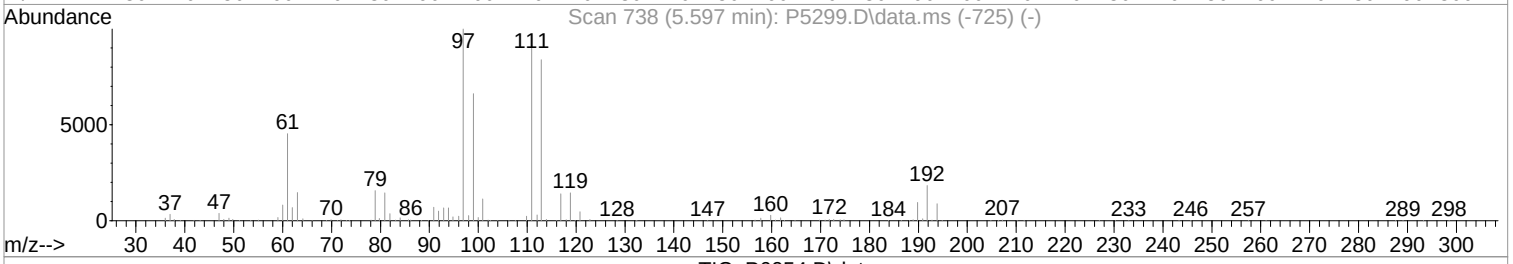
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest
Sample : R1611885-029|1000 (11185) Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 15:47:54 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6054.D\data.ms

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

5.578min (-0.018) 0.35 ppb m

response 3102

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	56.63
61.00	45.30	31.01
0.00	0.00	0.00

Manual Integration:

After

Split Peak

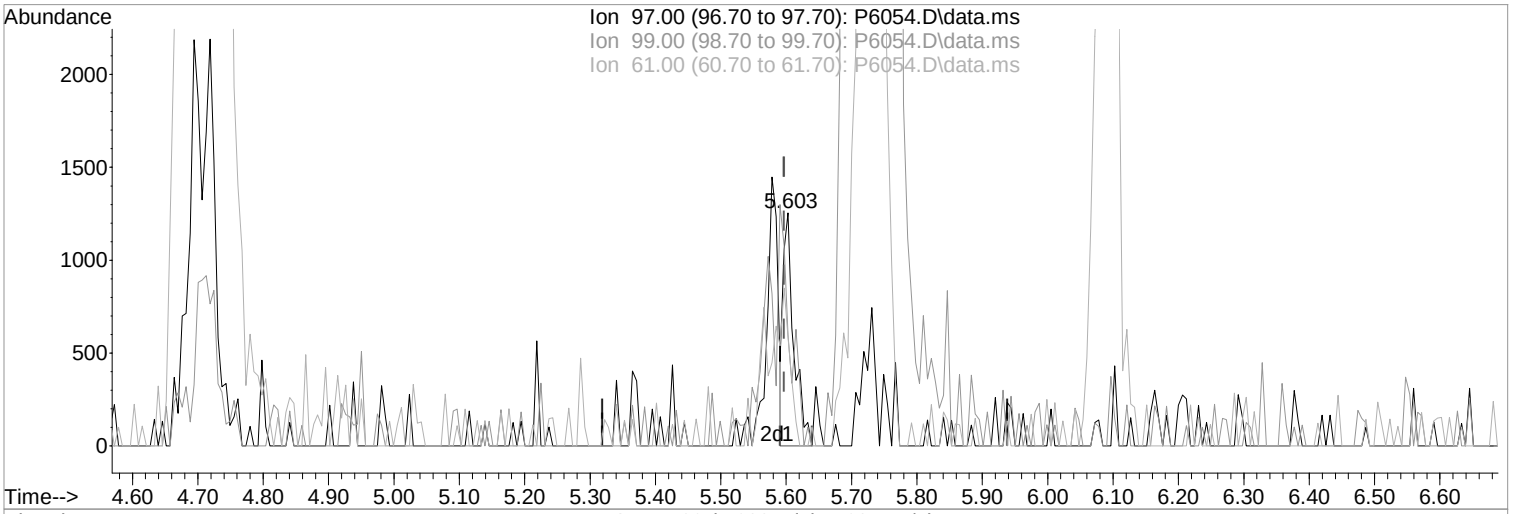
10/31/16

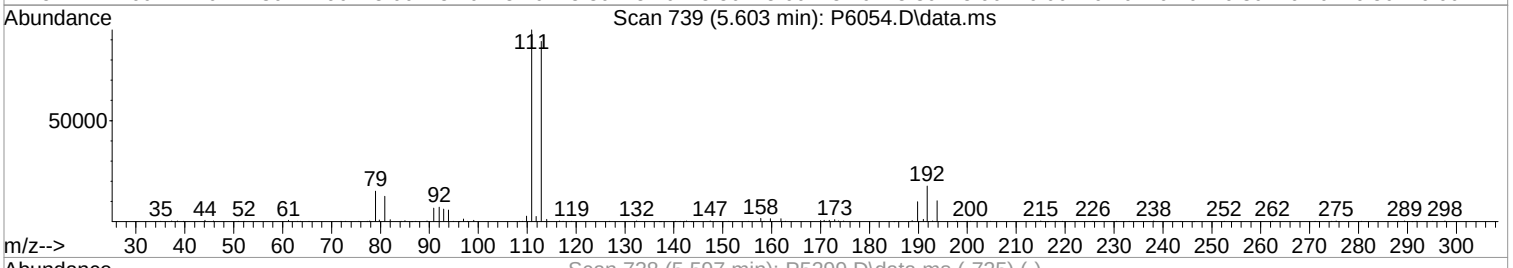
1st 10/31/16
2nd 10/31/16

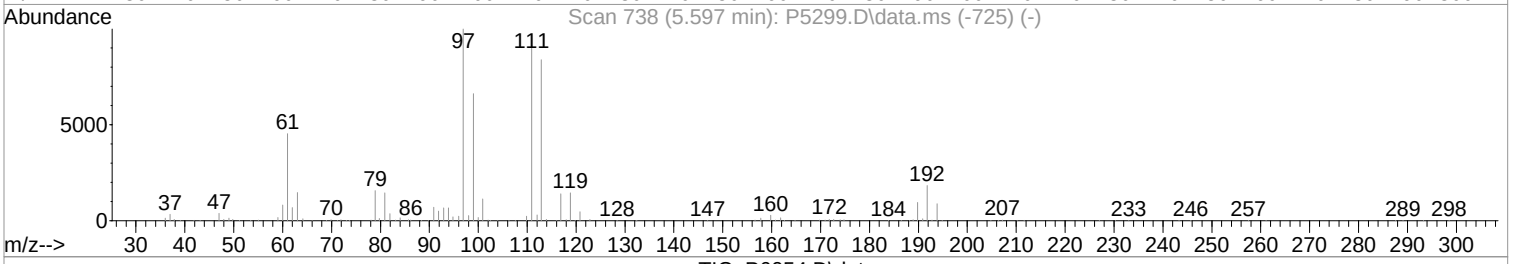
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-029|1000 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 15:47:54 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6054.D\data.ms

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

5.603min (+0.006) 0.16 ppb

response 1443

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	47.85
61.00	45.30	46.81
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~029|1000 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 31 10:47:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M dil
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

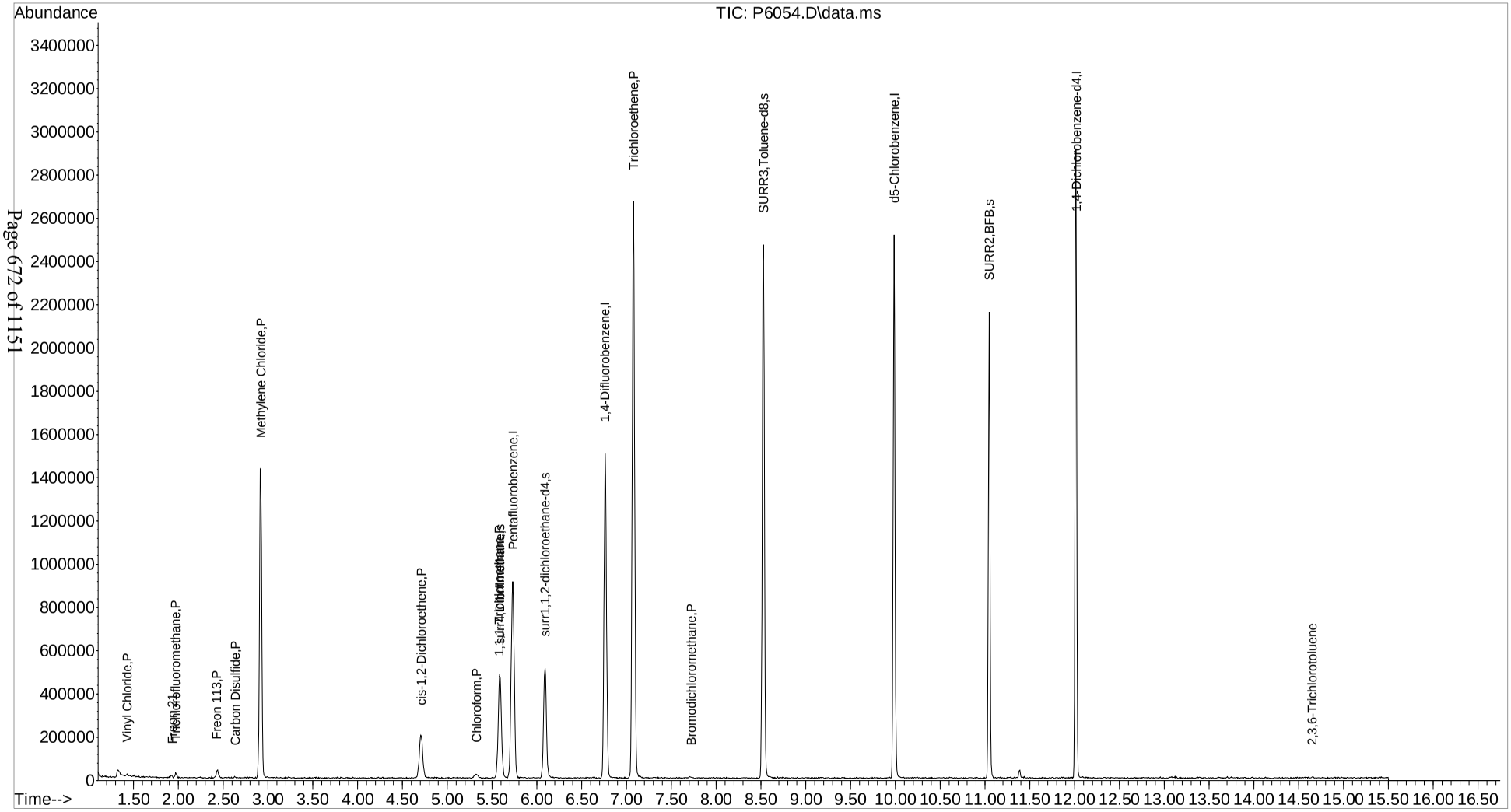
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	767396	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1264429	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1135856	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	591141	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	369177	54.71	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.42%				
48) surr1,1,2-dichloroetha...	6.090	65	406712	53.05	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.10%				
65) SURR3,Toluene-d8	8.529	98	1561545	56.47	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.94%				
70) SURR2,BFB	11.047	95	560918	51.99	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.98%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	3402	0.56	ppb	#	1
7) Freon 21	1.927	67	5939	0.74	ppb		81
8) Trichlorofluoromethane	1.969	101	11484	1.63	ppb		96
14) Freon 113	2.426	101	11555	2.04	ppb		94
18) Carbon Disulfide	2.634	76	3897m	0.23	ppb		
22) Methylene Chloride	2.920	84	612845	108.90	ppb		93
34) cis-1,2-Dichloroethene	4.713	96	125671	20.52	ppb		97
40) Chloroform	5.322	83	18106m	1.87	ppb		
41) 1,1,1-Trichloroethane	5.578	97	3102m	0.35	ppb		
54) Trichloroethene	7.078	130	932916	139.74	ppb		95
60) Bromodichloromethane	7.718	83	3890	0.48	ppb		82
120) 2,3,6-Trichlorotoluene	14.650	159	1363	0.27	ppb	#	81

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

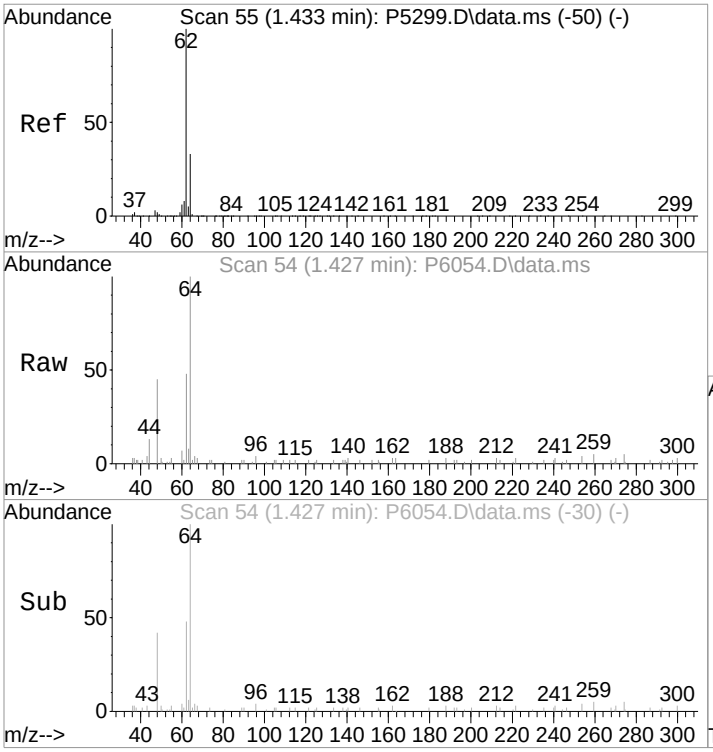
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6054.D
Acq On : 28 Oct 2016 3:14 pm
Operator : K.Ruest
Sample : R1611885-029|1000 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 31 10:47:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



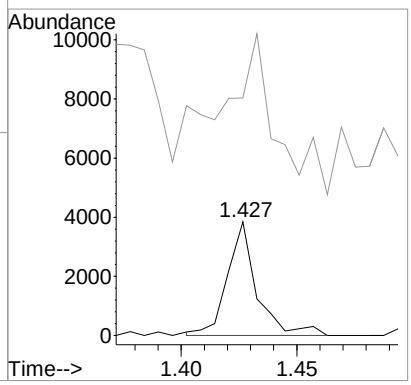
1st 10/31/16
2nd 10/31/16

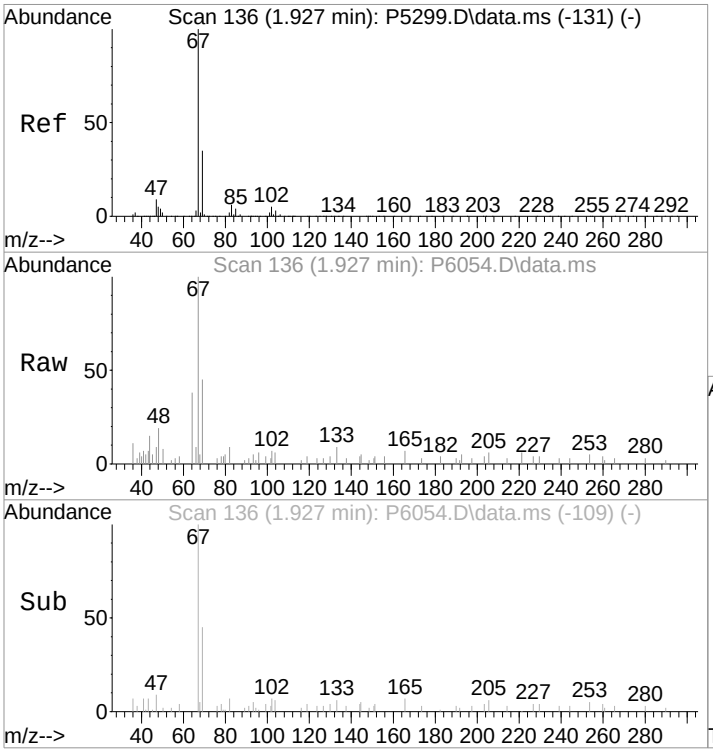


#4
Vinyl Chloride
Concen: 0.56 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 62 Resp: 3402

Ion	Ratio	Lower	Upper
62	100		
64	208.9	13.1	53.1#

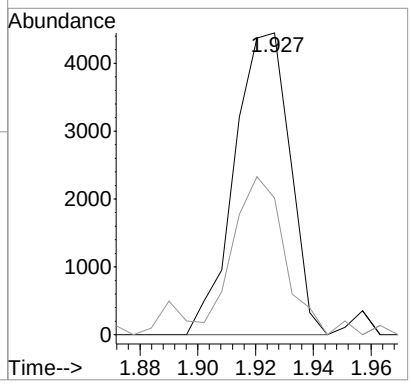


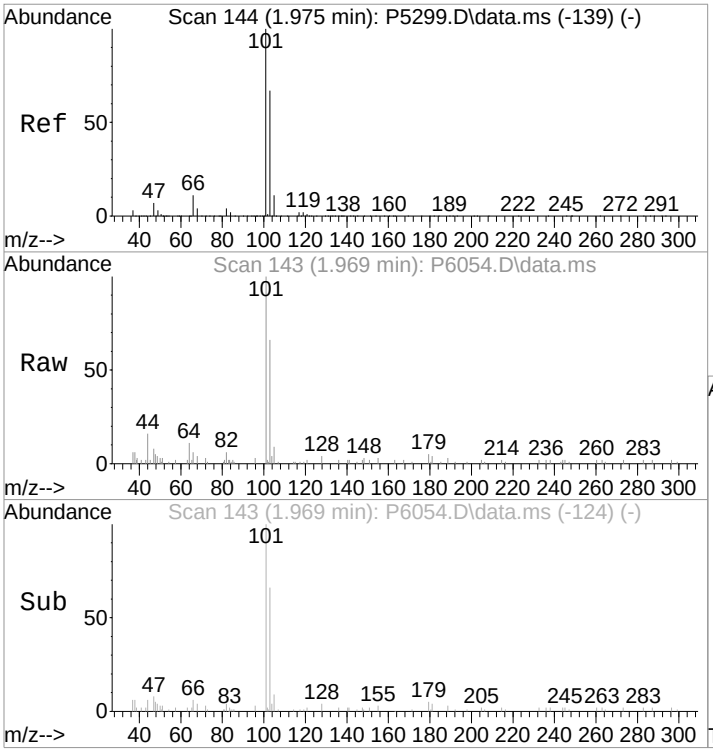


#7
Freon 21
Concen: 0.74 ppb
RT: 1.927 min Scan# 136
Delta R.T. -0.000 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 67 Resp: 5939

Ion	Ratio	Lower	Upper
67	100		
69	45.3	14.4	54.4

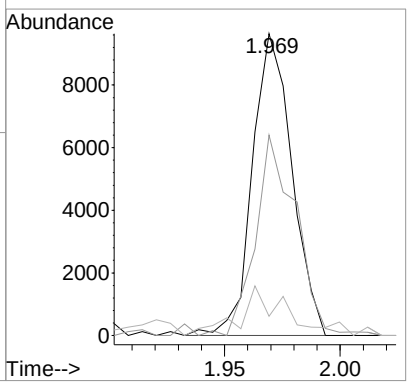


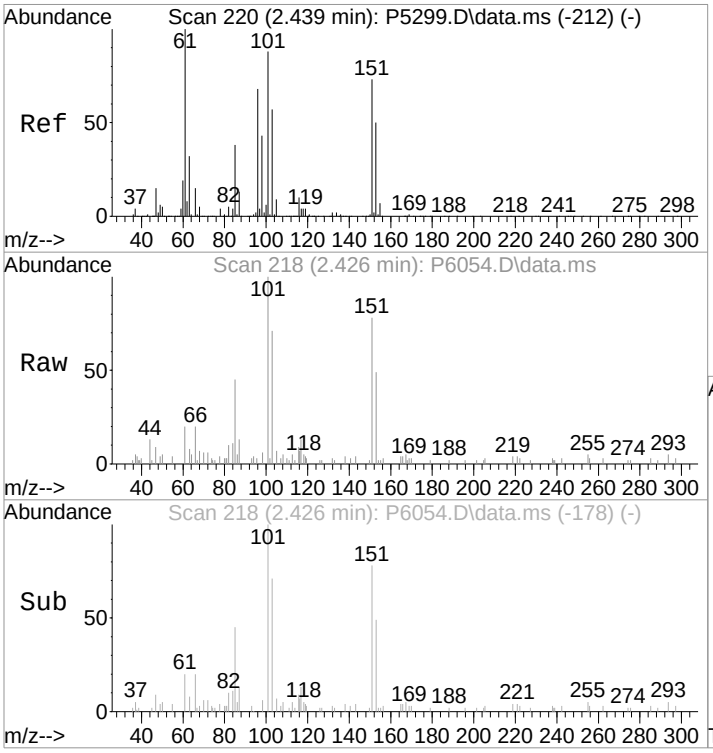


#8
Trichlorofluoromethane
Concen: 1.63 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion:101 Resp: 11484

Ion	Ratio	Lower	Upper
101	100		
103	65.2	47.3	87.3
66	6.3	0.0	31.5

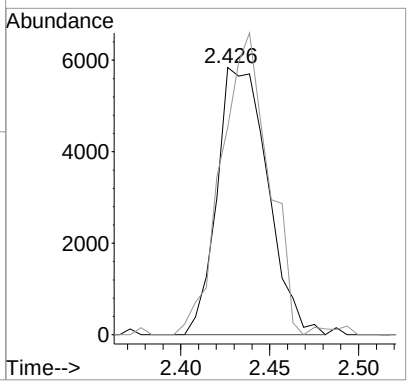


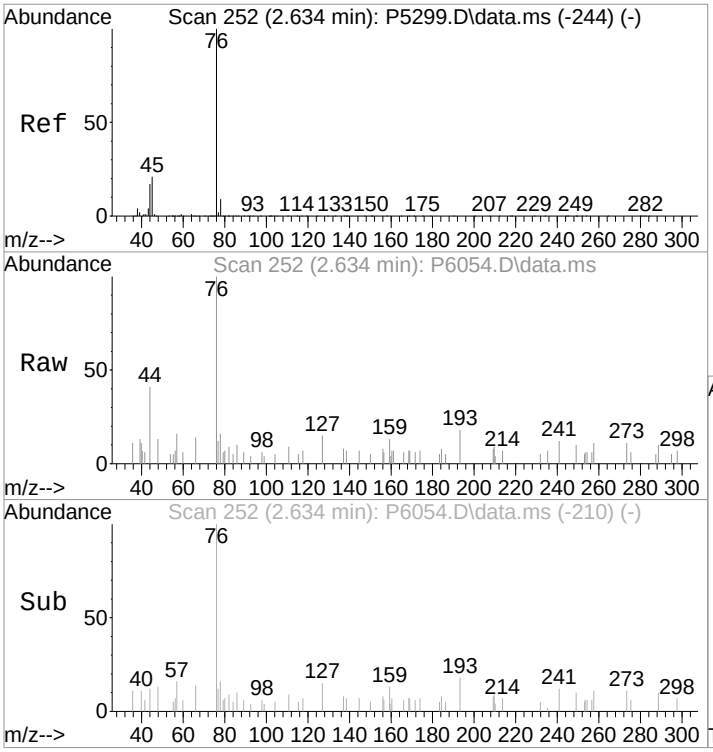


#14
Freon 113
Concen: 2.04 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.012 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion:101 Resp: 11555

Ion	Ratio	Lower	Upper
101	100		
151	77.6	62.6	102.6

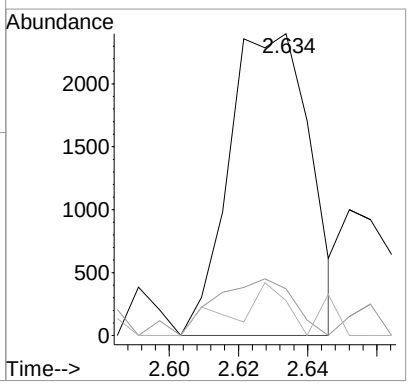


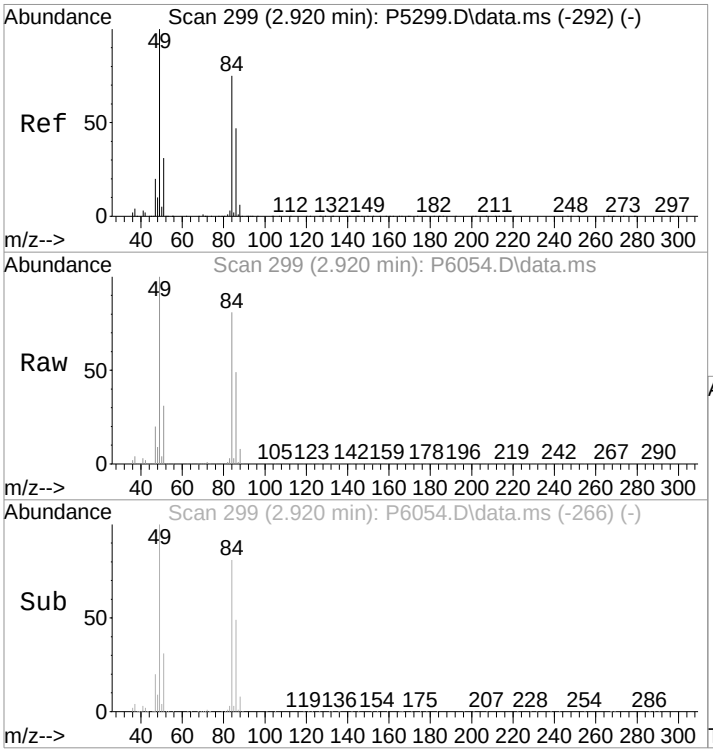


#18
Carbon Disulfide
Concen: 0.23 ppb m
RT: 2.634 min Scan# 252
Delta R.T. -0.000 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 76 Resp: 3897

Ion	Ratio	Lower	Upper
76	100		
78	15.5	0.0	29.3
77	11.6	0.0	22.5

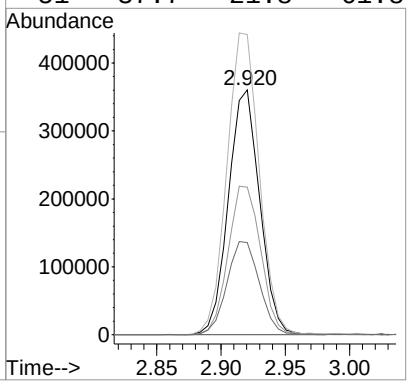


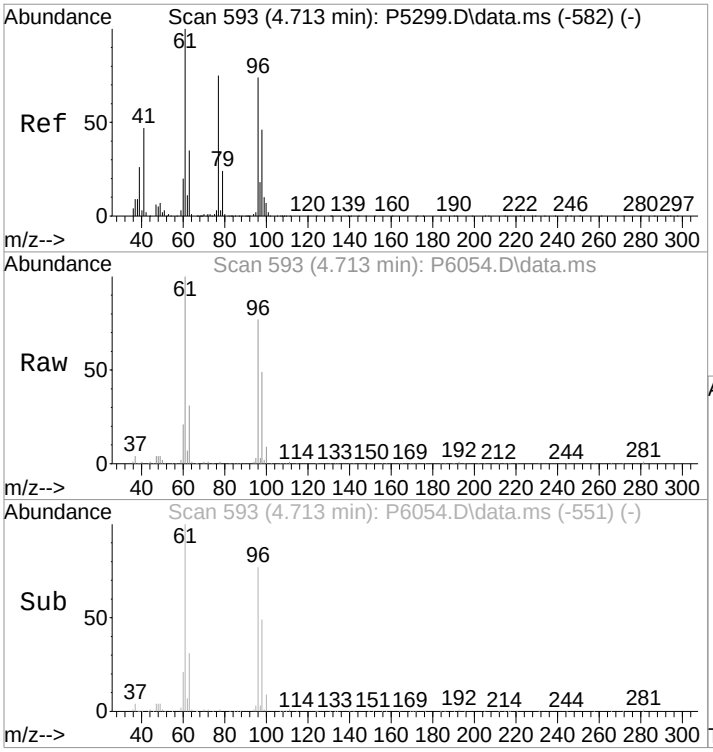


#22
Methylene Chloride
Concen: 108.90 ppb
RT: 2.920 min Scan# 299
Delta R.T. -0.000 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 84 Resp: 612845

Ion	Ratio	Lower	Upper
84	100		
86	60.3	42.8	82.8
49	122.7	113.9	153.9
51	37.7	21.8	61.8

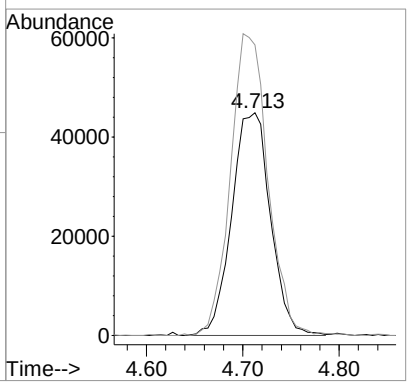


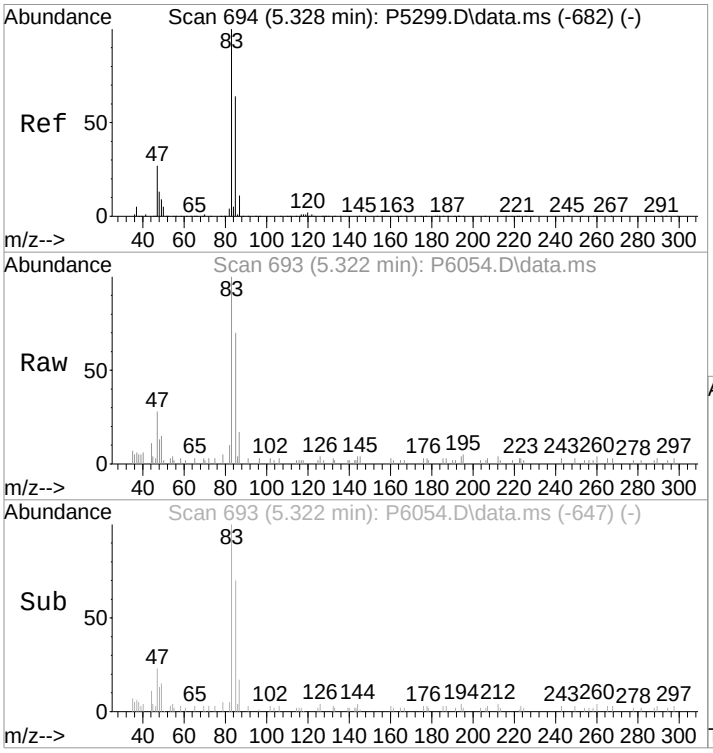


#34
cis-1,2-Dichloroethene
Concen: 20.52 ppb
RT: 4.713 min Scan# 593
Delta R.T. -0.000 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 96 Resp: 125671

Ion	Ratio	Lower	Upper
96	100		
61	130.5	114.6	154.6

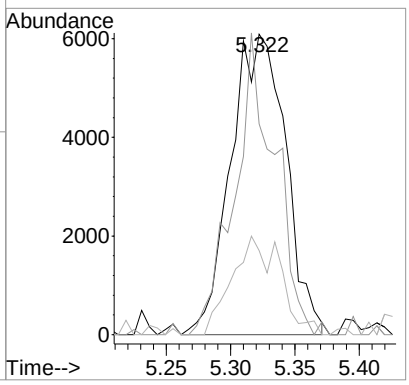


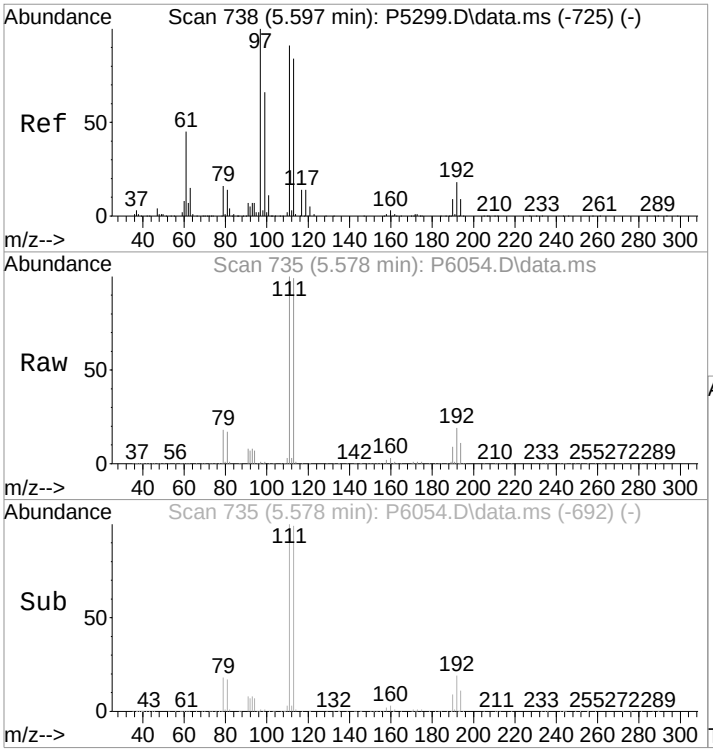


#40
Chloroform
Concen: 1.87 ppb m
RT: 5.322 min Scan# 693
Delta R.T. -0.006 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 83 Resp: 18106

Ion	Ratio	Lower	Upper
83	100		
85	70.2	44.1	84.1
47	28.0	7.4	47.4

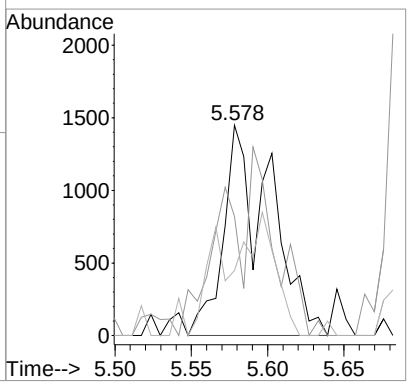


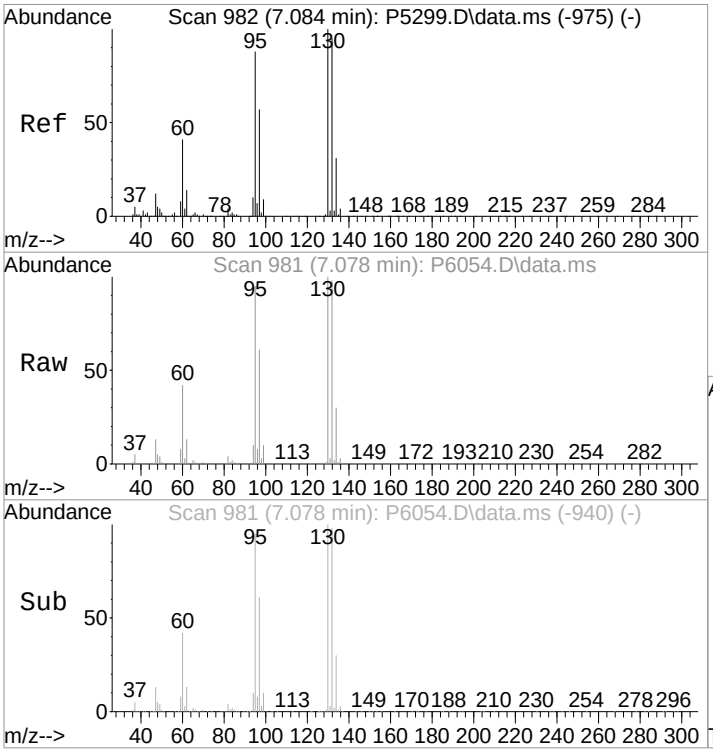


#41
1,1,1-Trichloroethane
Concen: 0.35 ppb m
RT: 5.578 min Scan# 735
Delta R.T. -0.018 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 97 Resp: 3102

Ion	Ratio	Lower	Upper
97	100		
99	56.6	46.2	86.2
61	31.0	25.3	65.3

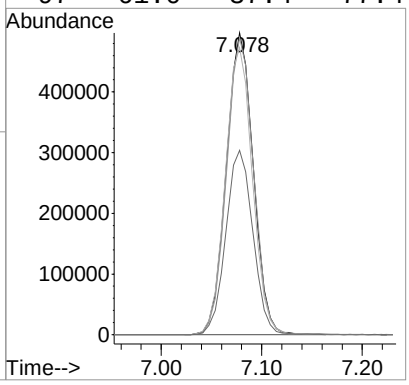


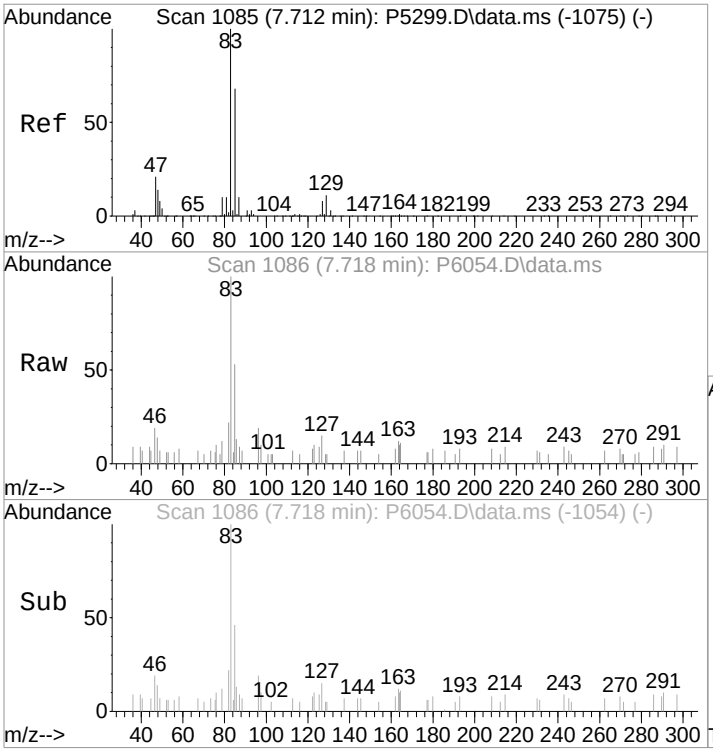


#54
Trichloroethene
Concen: 139.74 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion:130 Resp: 932916

Ion	Ratio	Lower	Upper
130	100		
132	98.4	75.2	115.2
95	95.1	68.1	108.1
97	61.0	37.4	77.4

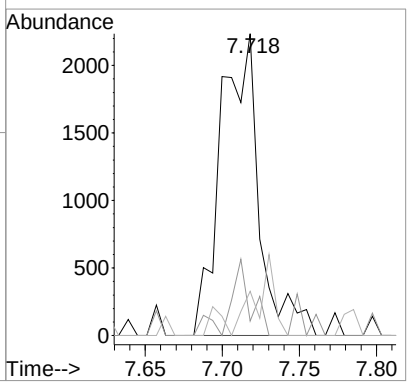


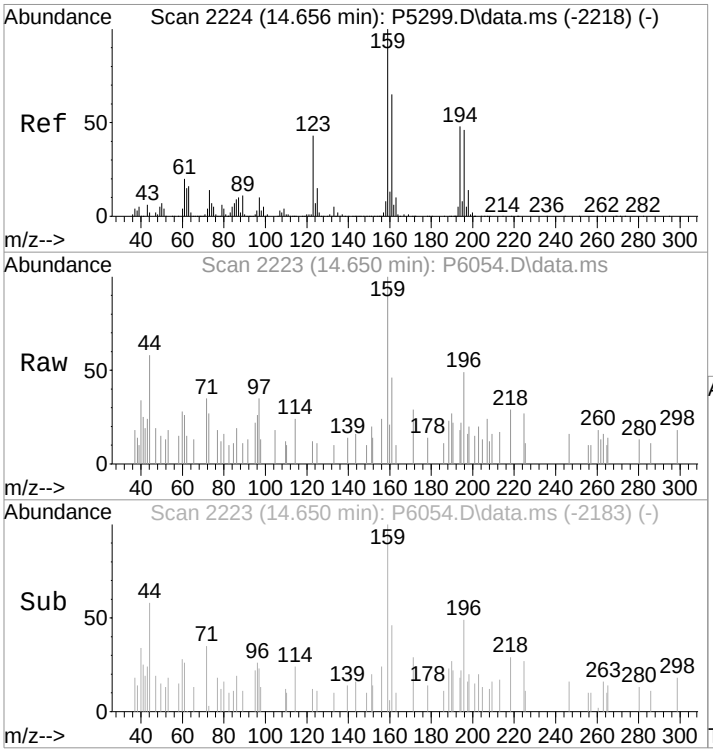


#60
Bromodichloromethane
Concen: 0.48 ppb
RT: 7.718 min Scan# 1086
Delta R.T. 0.006 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion: 83 Resp: 3890

Ion	Ratio	Lower	Upper
83	100		
129	4.8	0.0	31.2
127	14.7	0.0	28.0

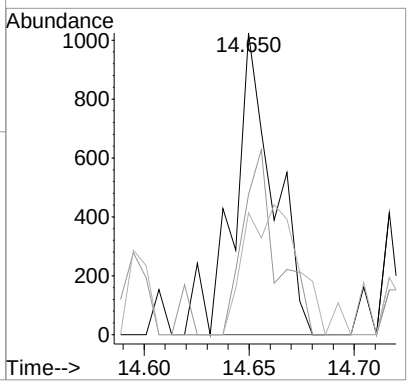




#120
2,3,6-Trichlorotoluene
Concen: 0.27 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P6054.D
Acq: 28 Oct 2016 3:14 pm

Tgt Ion:159 Resp: 1363

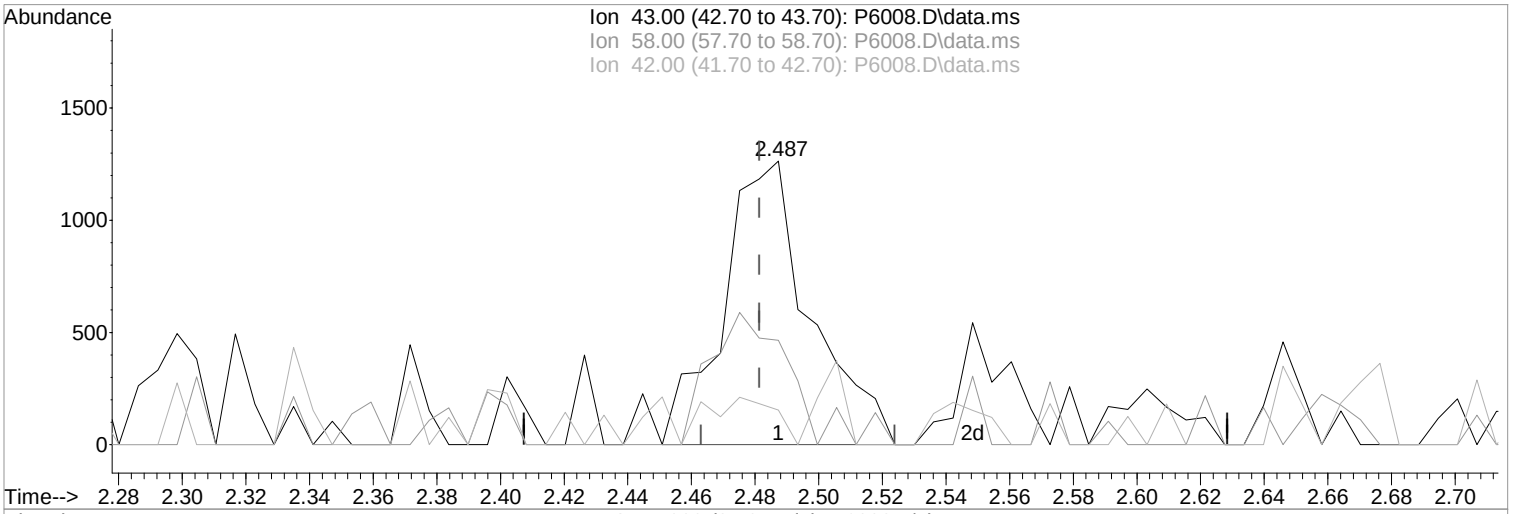
Ion	Ratio	Lower	Upper
159	100		
161	46.4	52.3	78.5#
194	40.4	38.6	57.8

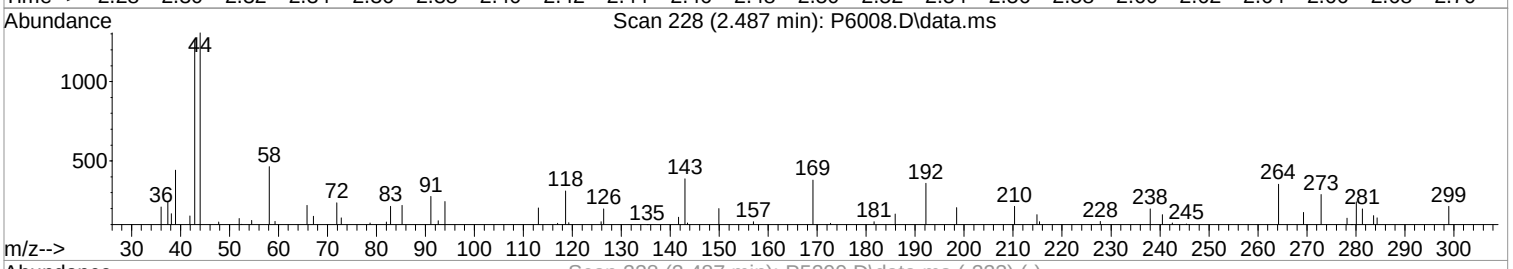


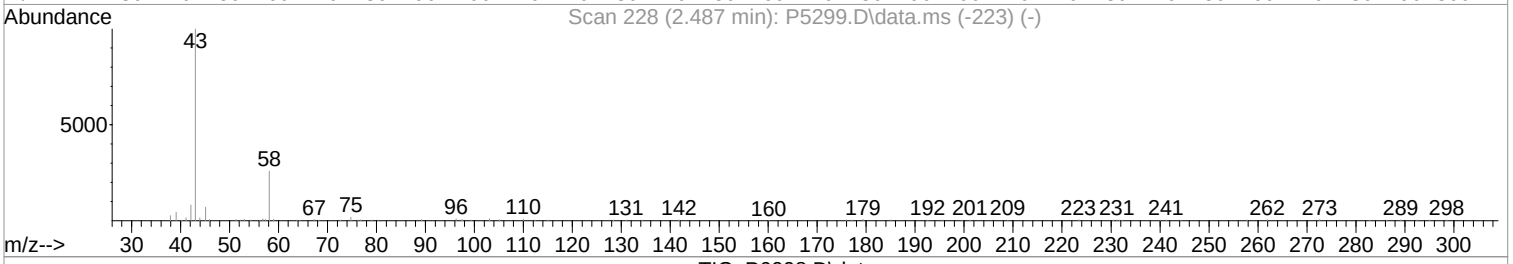
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6008.D
Acq On : 27 Oct 2016 3:21 pm
Operator : K.Ruest
Sample : R1611185-030|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 15:37:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6008.D\data.ms

(15) Acetone (P)

2.487min (+0.006) 1.87 ppb m

response 2413

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	36.79
42.00	8.70	12.18
0.00	0.00	0.00

Manual Integration:

After

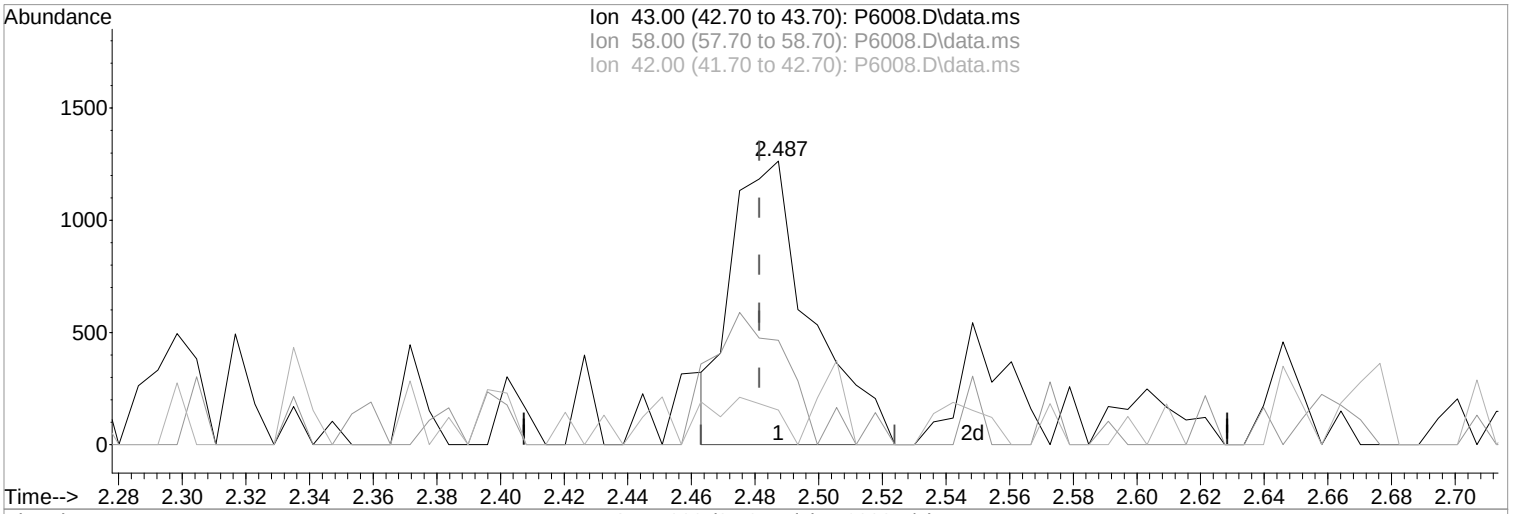
Split Peak

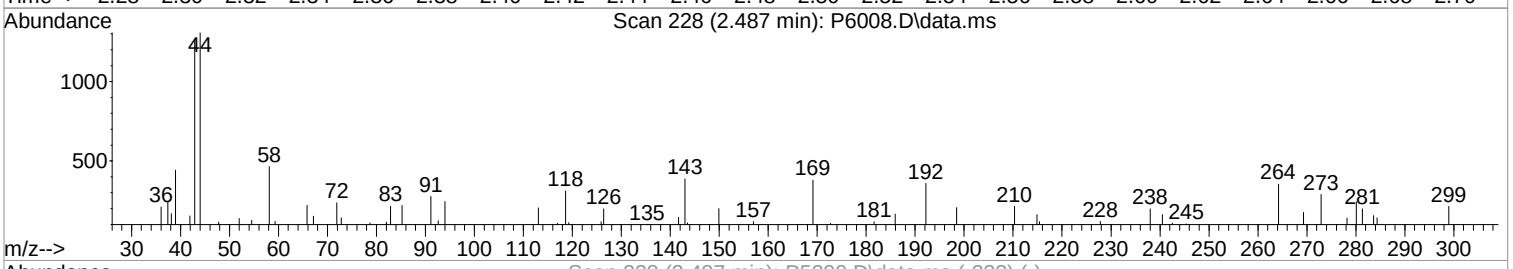
10/27/16

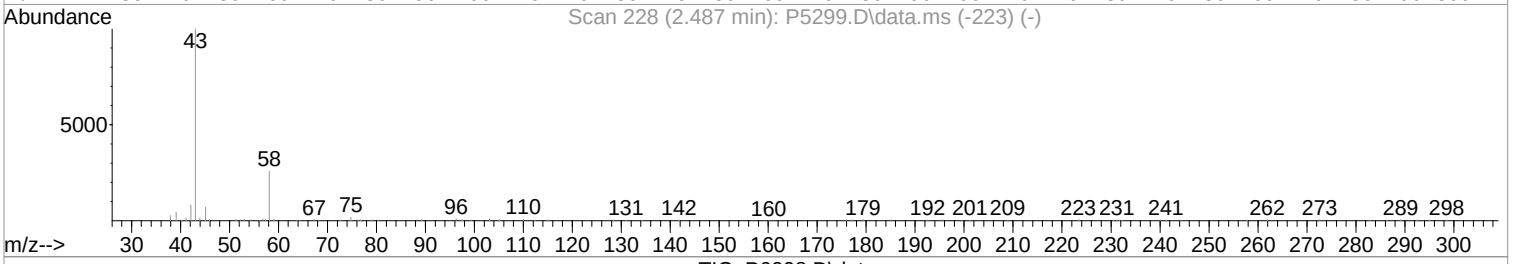
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6008.D
Acq On : 27 Oct 2016 3:21 pm
Operator : K.Ruest
Sample : R1611185-030|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 15:37:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6008.D\data.ms

(15) Acetone (P)

2.487min (+0.006) 1.69 ppb

response 2180

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	36.79
42.00	8.70	12.18
0.00	0.00	0.00

Manual Integration:

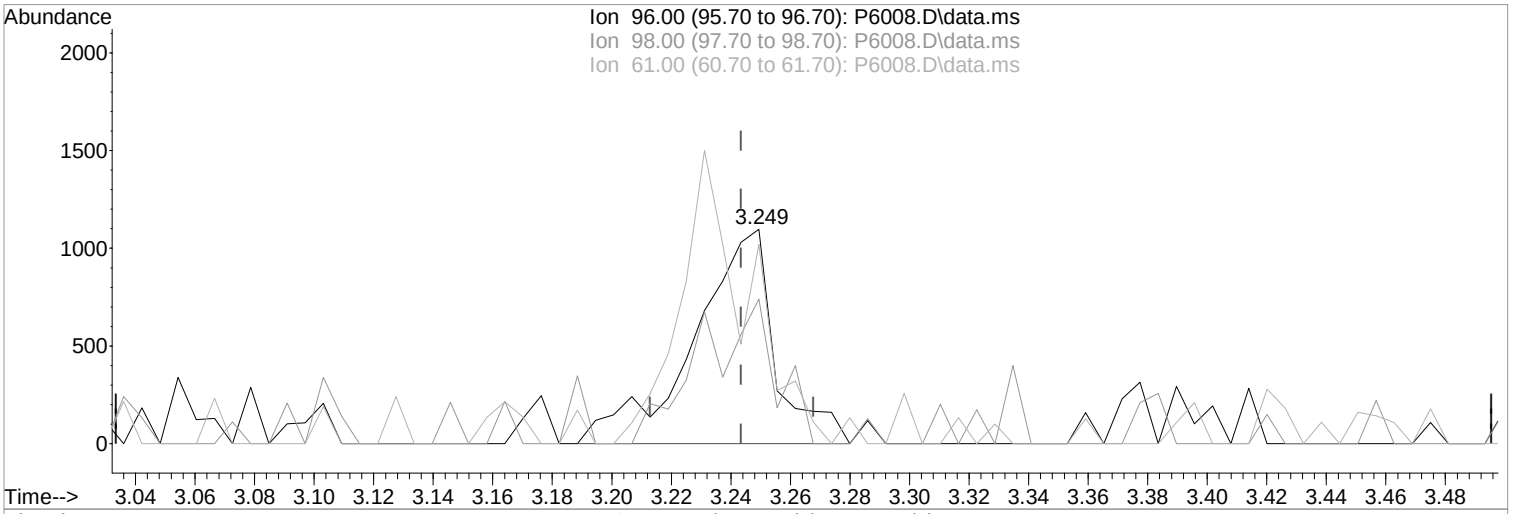
Before

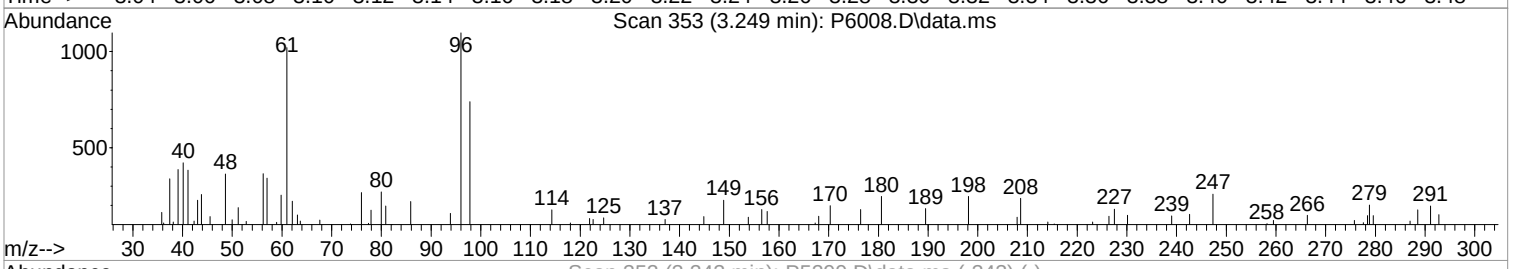
10/27/16

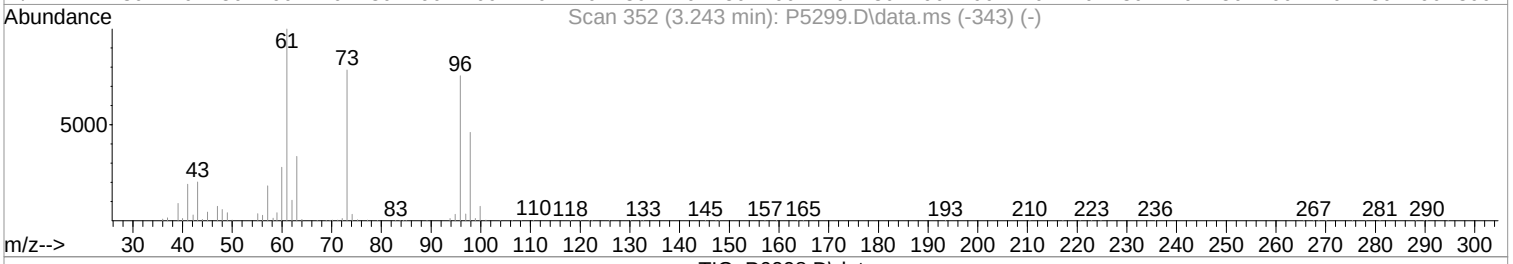
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6008.D
Acq On : 27 Oct 2016 3:21 pm
Operator : K.Ruest
Sample : R1611185-030|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 15:37:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6008.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.249min (+0.006) 0.34 ppb m

response 2095

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	67.40
61.00	132.40	92.90#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

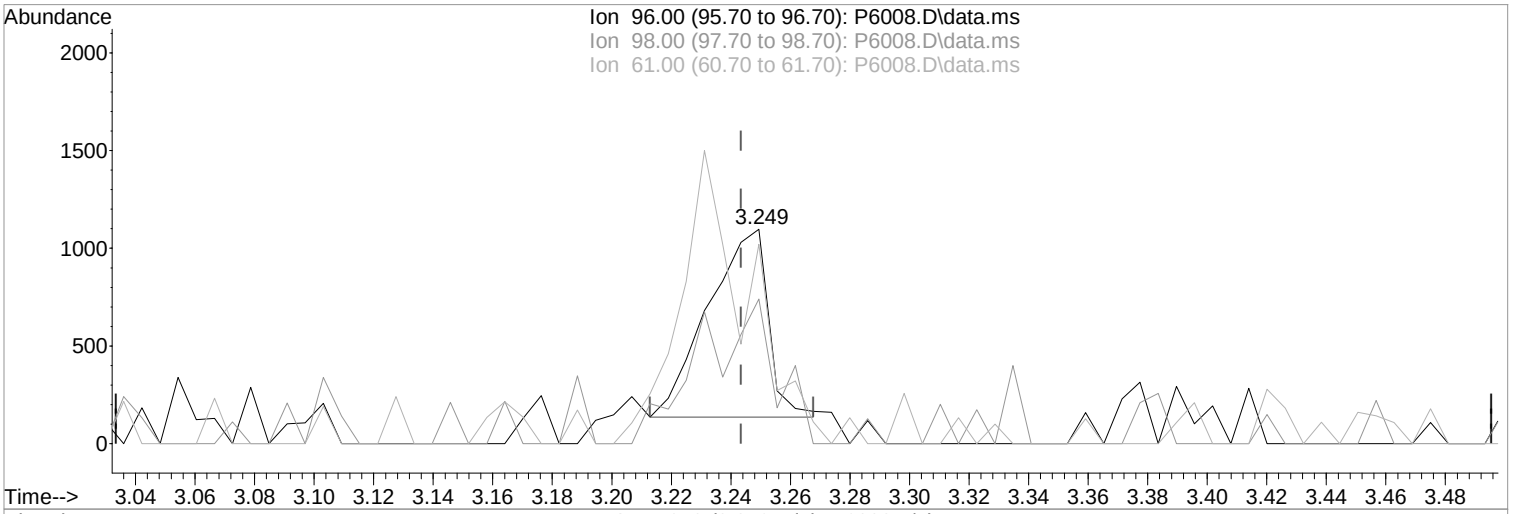
10/27/16

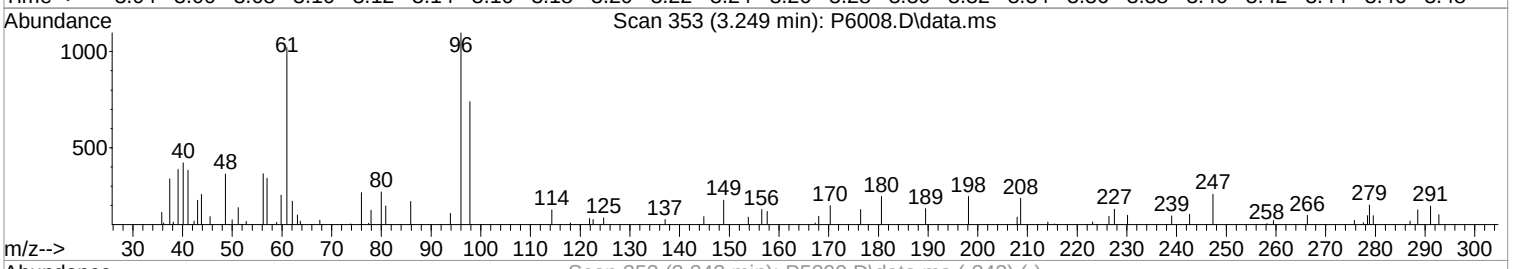
1st 10/27/16
2nd 10/31/16

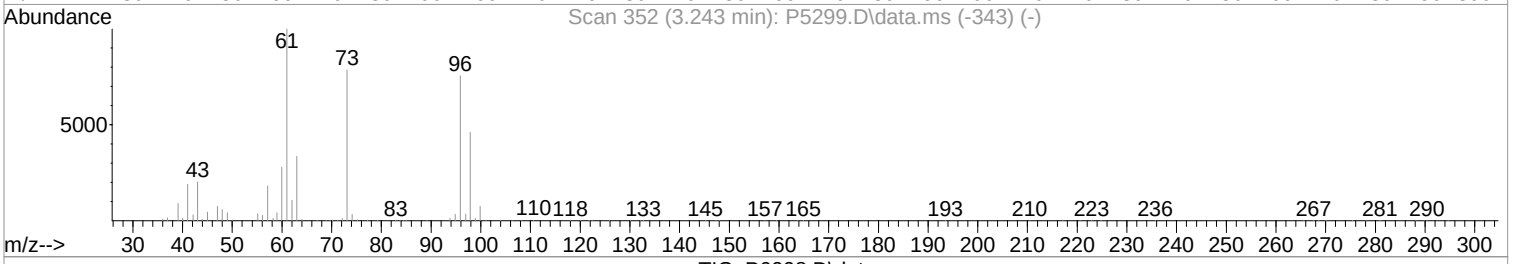
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6008.D
Acq On : 27 Oct 2016 3:21 pm
Operator : K.Ruest
Sample : R1611185-030|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 15:37:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6008.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.249min (+0.006) 0.22 ppb

response 1353

Ion	Exp%	Act%
96.00	100	100
98.00	61.00	67.40
61.00	132.40	92.90#
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6008.D
Acq On : 27 Oct 2016 3:21 pm
Operator : K.Ruest
Sample : R1611185-030|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 15:40:13 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

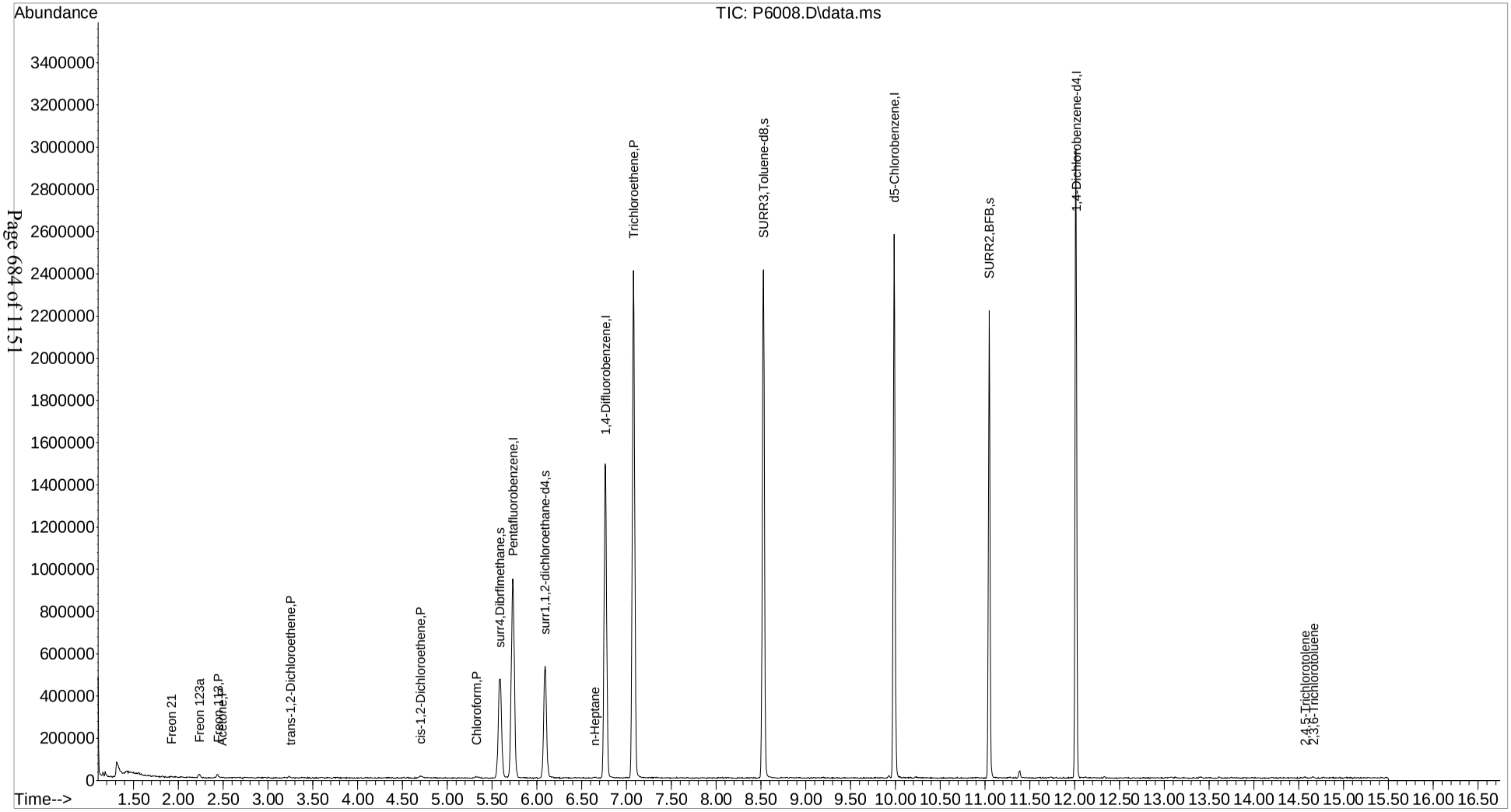
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	789623	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1281230	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1171902	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	606547	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	376189	55.01	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.02%				
48) surr1,1,2-dichloroetha...	6.090	65	416472	53.62	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.24%				
65) SURR3,Toluene-d8	8.529	98	1472079	52.54	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.08%				
70) SURR2,BFB	11.047	95	565424	51.72	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.44%				
Target Compounds							Qvalue
7) Freon 21	1.920	67	2889	0.35	ppb		78
10) Freon 123a	2.237	67	5637	1.12	ppb	#	72
14) Freon 113	2.439	101	5736	0.99	ppb		92
15) Acetone	2.487	43	2413m	1.87	ppb		
26) trans-1,2-Dichloroethene	3.249	96	2095m	0.34	ppb		
34) cis-1,2-Dichloroethene	4.700	96	5708	0.91	ppb	#	76
40) Chloroform	5.322	83	5289	0.53	ppb		81
52) n-Heptane	6.645	43	2011	0.24	ppb		83
54) Trichloroethene	7.078	130	843316	124.66	ppb		98
119) 2,4,5-Trichlorotolene	14.570	159	1179	0.21	ppb	#	44
120) 2,3,6-Trichlorotoluene	14.662	159	1167	0.22	ppb	#	77

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

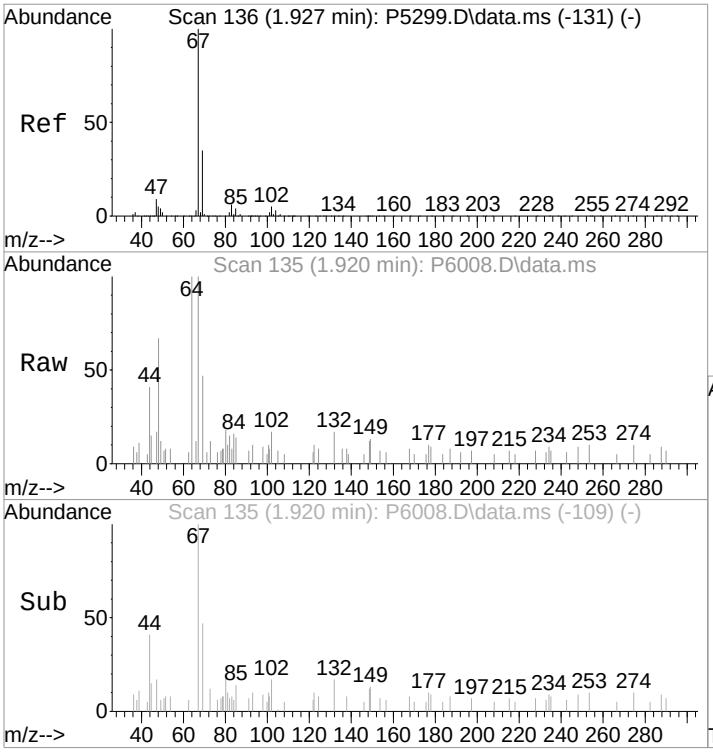
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6008.D
Acq On : 27 Oct 2016 3:21 pm
Operator : K.Ruest
Sample : R1611185-030|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 15:40:13 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



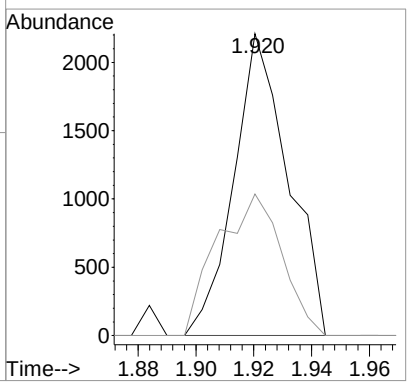
1st 10/27/16
2nd 10/31/16

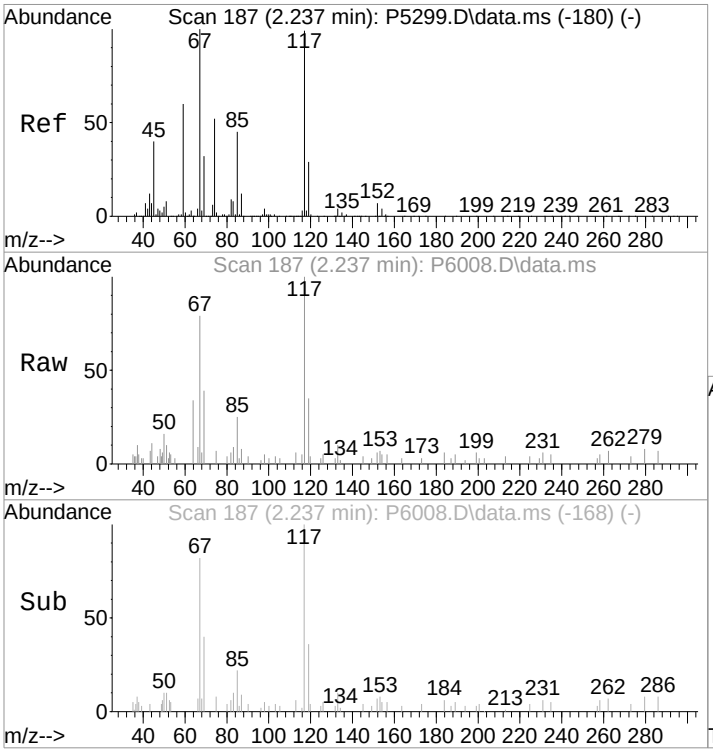


#7
Freon 21
Concen: 0.35 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 67 Resp: 2889

Ion	Ratio	Lower	Upper
67	100		
69	46.9	14.4	54.4

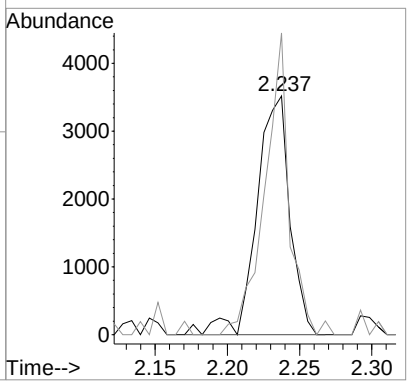


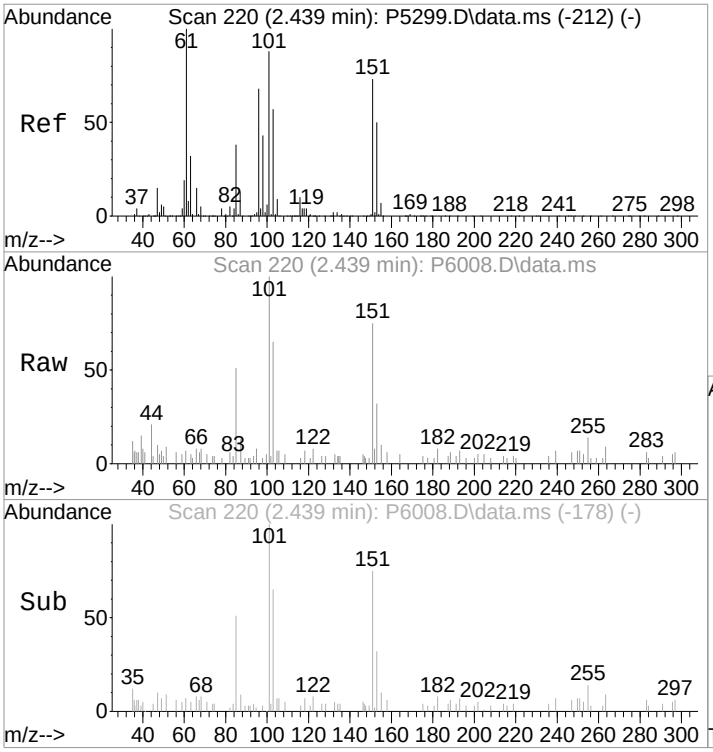


#10
Freon 123a
Concen: 1.12 ppb
RT: 2.237 min Scan# 187
Delta R.T. -0.000 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 67 Resp: 5637

Ion	Ratio	Lower	Upper
67	100		
117	126.5	78.8	118.8#

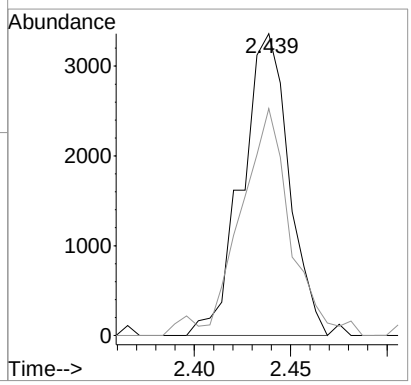


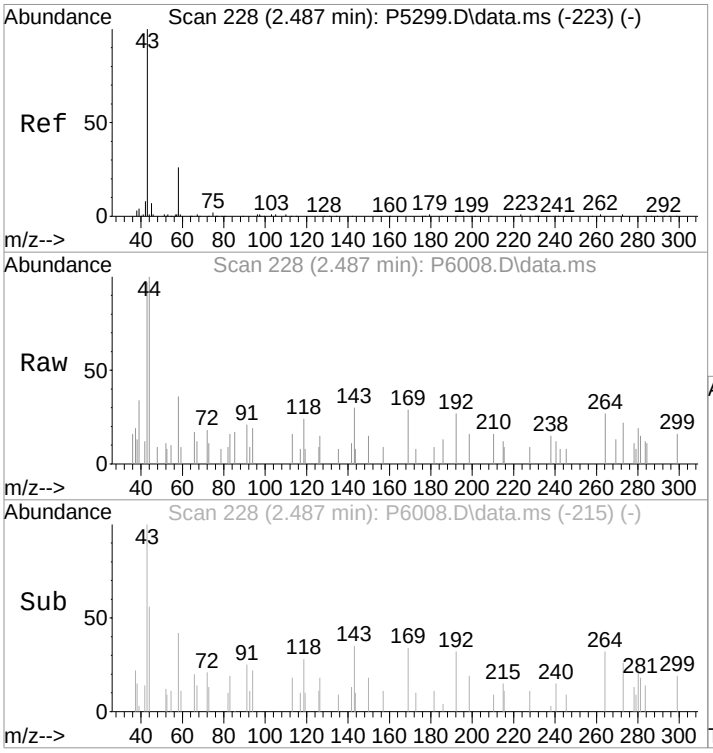


#14
Freon 113
Concen: 0.99 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion:101 Resp: 5736

Ion	Ratio	Lower	Upper
101	100		
151	75.1	62.6	102.6

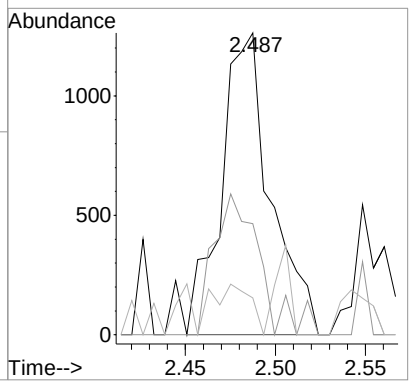


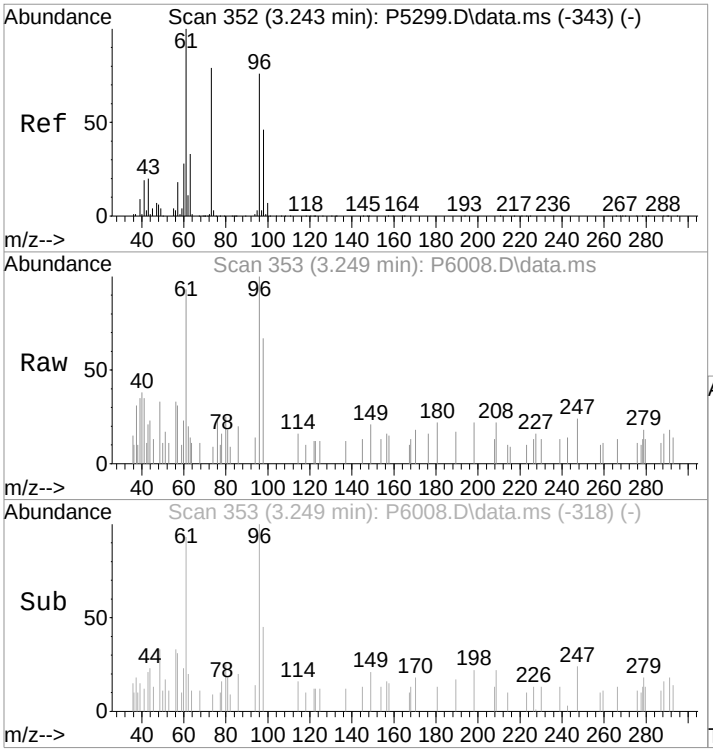


#15
Acetone
Concen: 1.87 ppb m
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 43 Resp: 2413

Ion	Ratio	Lower	Upper
43	100		
58	36.8	5.3	45.3
42	12.2	0.0	28.7

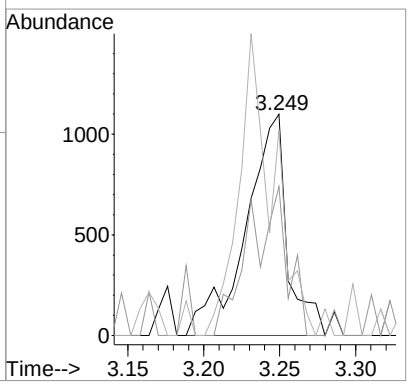


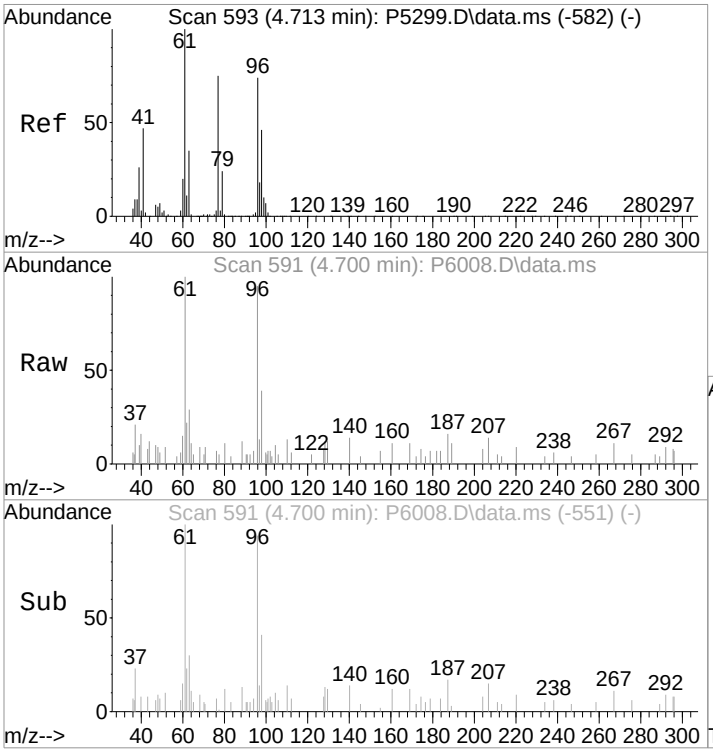


#26
trans-1,2-Dichloroethene
Concen: 0.34 ppb m
RT: 3.249 min Scan# 353
Delta R.T. 0.006 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 96 Resp: 2095

Ion	Ratio	Lower	Upper
96	100		
98	67.4	41.0	81.0
61	92.9	112.4	152.4#

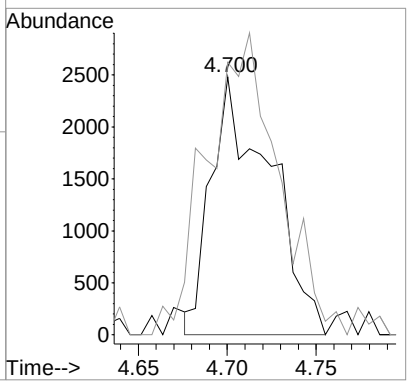


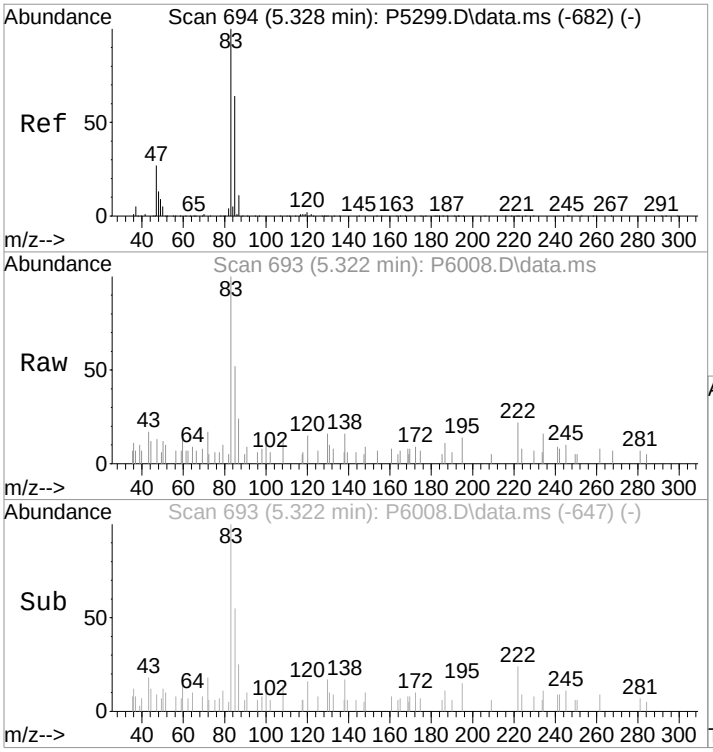


#34
cis-1,2-Dichloroethene
Concen: 0.91 ppb
RT: 4.700 min Scan# 591
Delta R.T. -0.012 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 96 Resp: 5708

Ion	Ratio	Lower	Upper
96	100		
61	105.7	114.6	154.6#

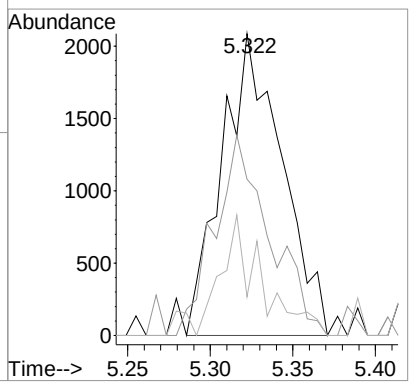


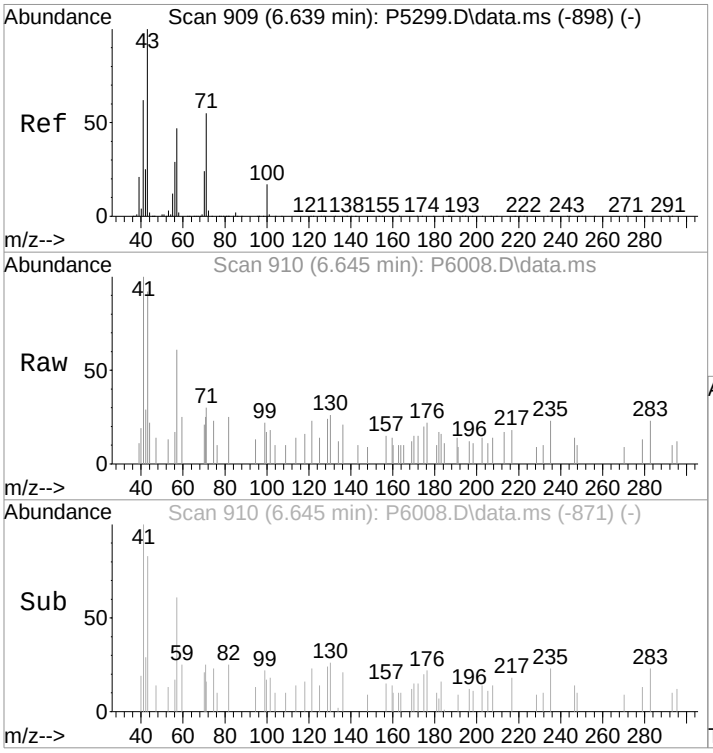


#40
Chloroform
Concen: 0.53 ppb
RT: 5.322 min Scan# 693
Delta R.T. -0.006 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 83 Resp: 5289

Ion	Ratio	Lower	Upper
83	100		
85	51.7	44.1	84.1
47	12.8	7.4	47.4

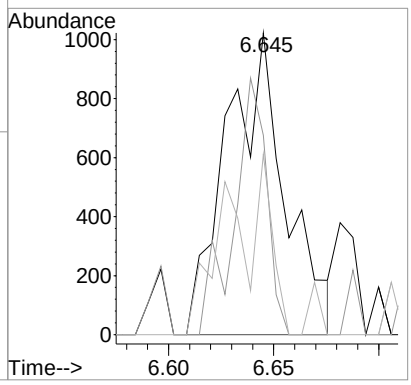


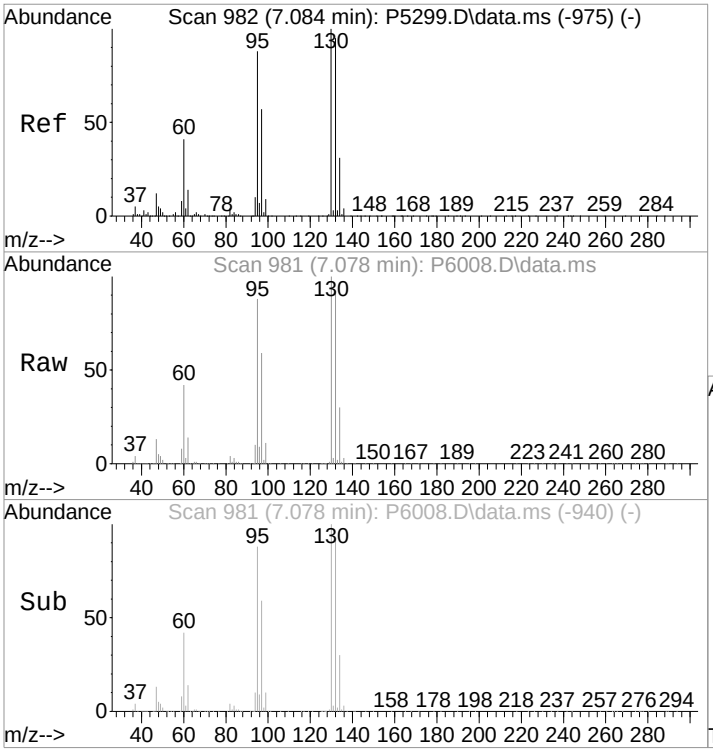


#52
n-Heptane
Concen: 0.24 ppb
RT: 6.645 min Scan# 910
Delta R.T. -0.000 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion: 43 Resp: 2011

Ion	Ratio	Lower	Upper
43	100		
57	66.1	26.8	66.8
71	59.7	34.8	74.8

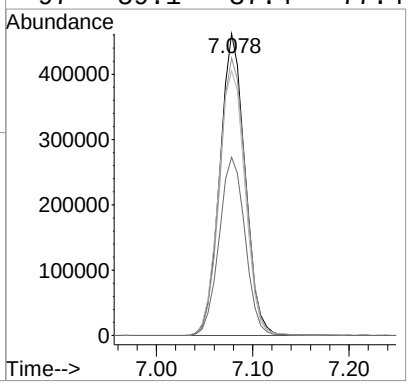


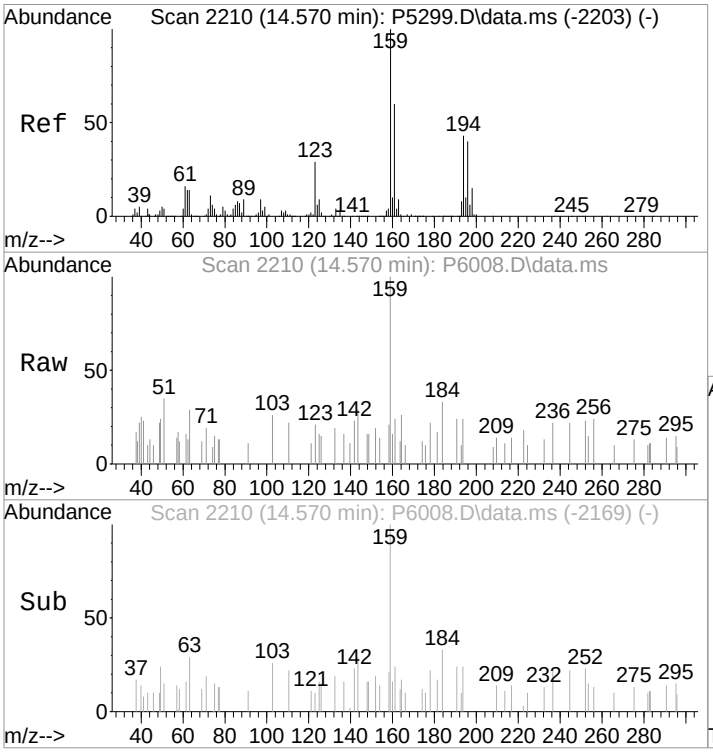


#54
Trichloroethene
Concen: 124.66 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion:130 Resp: 843316

Ion	Ratio	Lower	Upper
130	100		
132	91.9	75.2	115.2
95	87.7	68.1	108.1
97	59.1	37.4	77.4

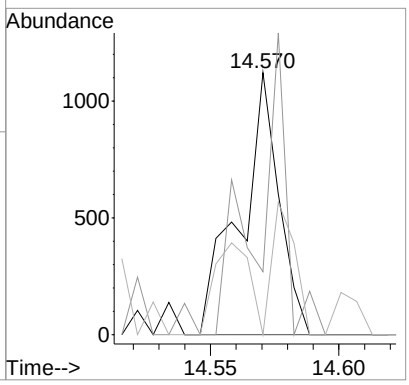


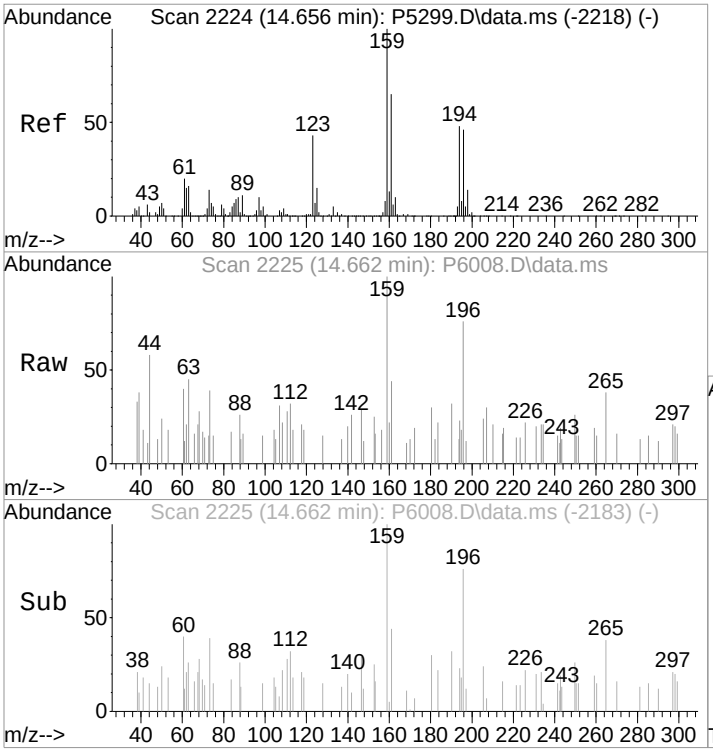


#119
2,4,5-Trichlorotolene
Concen: 0.21 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion:159 Resp: 1179

Ion	Ratio	Lower	Upper
159	100		
161	24.1	48.1	72.1#
194	0.0	34.5	51.7#

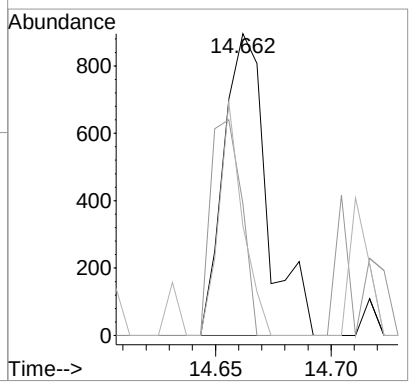




#120
2,3,6-Trichlorotoluene
Concen: 0.22 ppb
RT: 14.662 min Scan# 2225
Delta R.T. 0.006 min
Lab File: P6008.D
Acq: 27 Oct 2016 3:21 pm

Tgt Ion:159 Resp: 1167

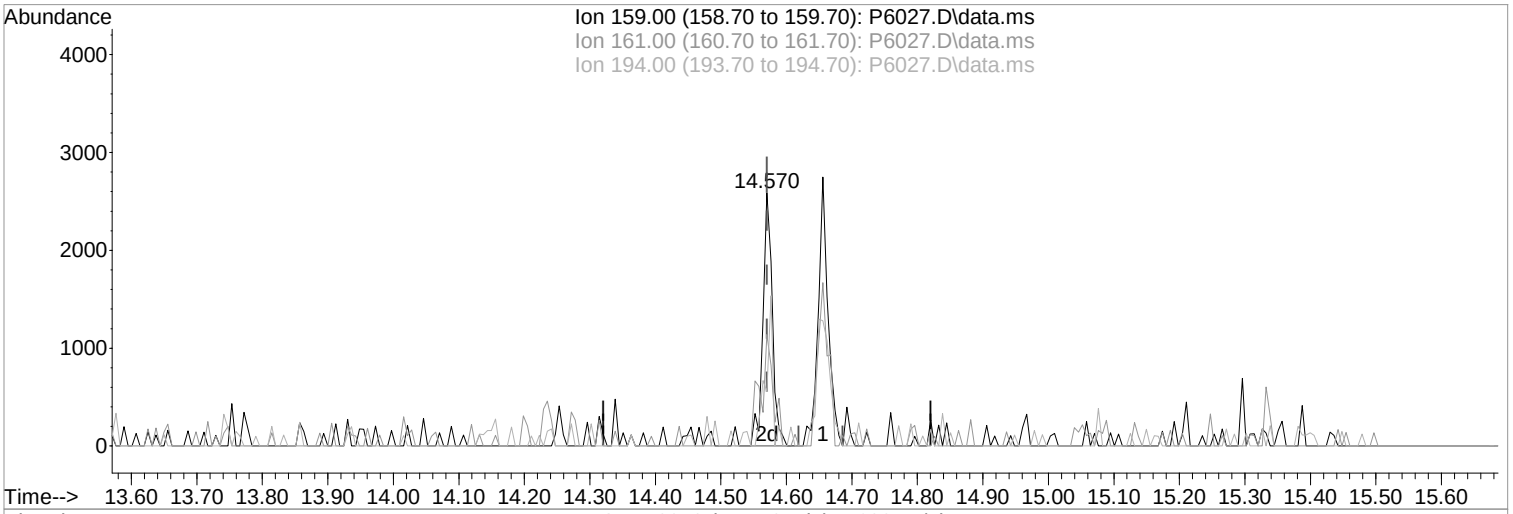
Ion	Ratio	Lower	Upper
159	100		
161	43.6	52.3	78.5#
194	36.4	38.6	57.8#

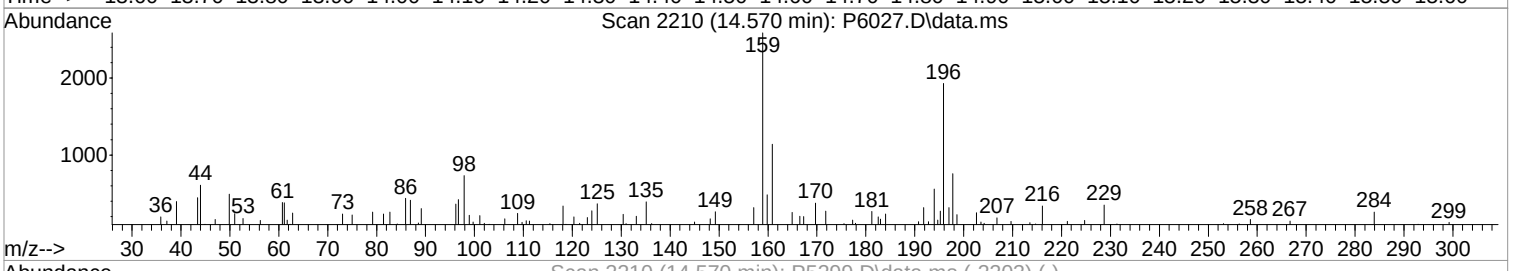


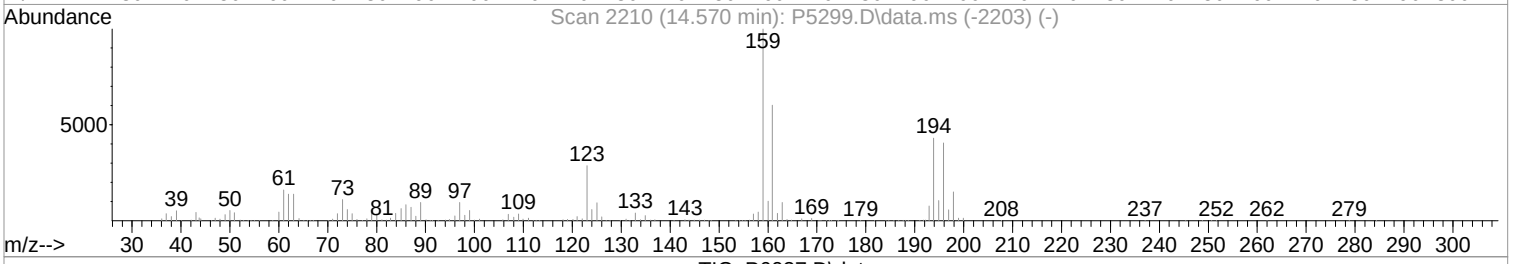
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

(119) 2,4,5-Trichlorotolene

14.570min (-0.000) 0.47 ppb m

response 2594

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	44.07#
194.00	43.10	21.57#
0.00	0.00	0.00

Manual Integration:

After

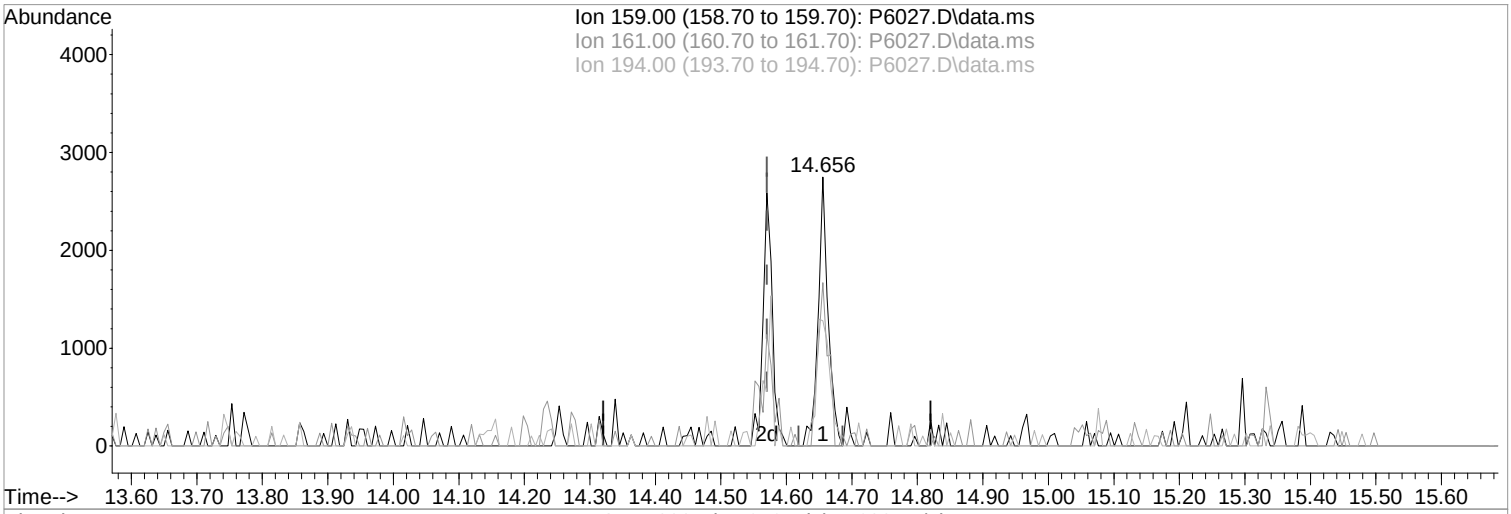
Wrong peak selected.

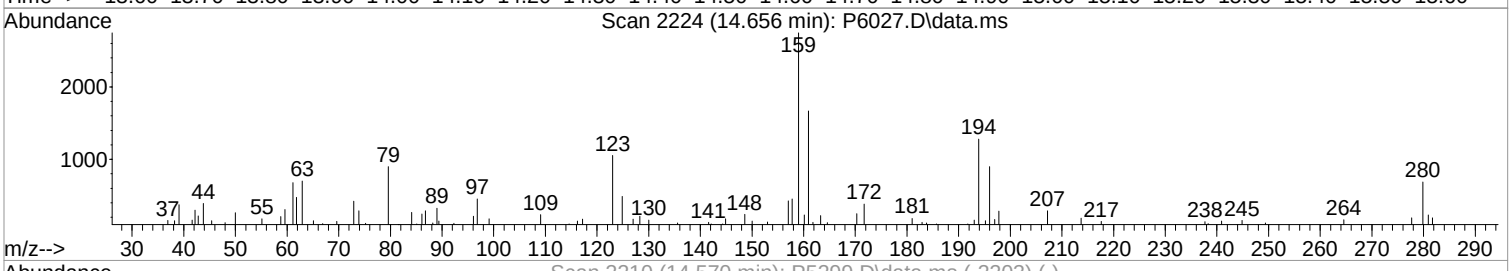
10/28/16

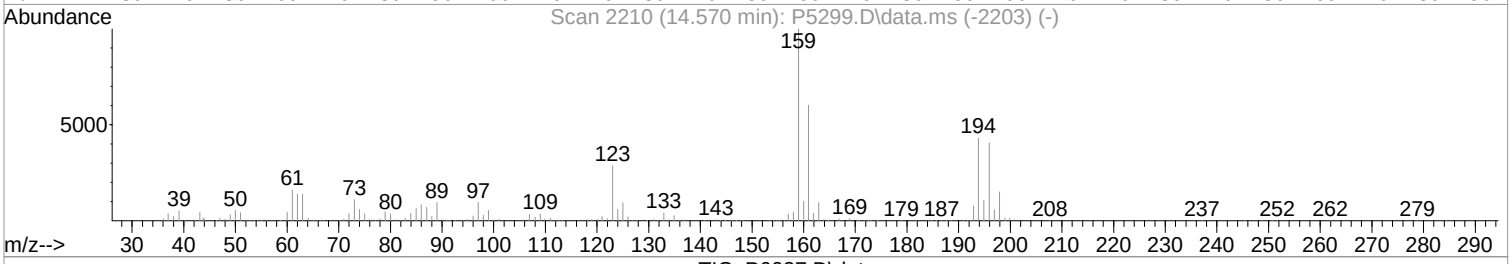
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.085) 0.53 ppb

response 2942

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	60.75
194.00	43.10	46.53
0.00	0.00	0.00

Manual Integration:

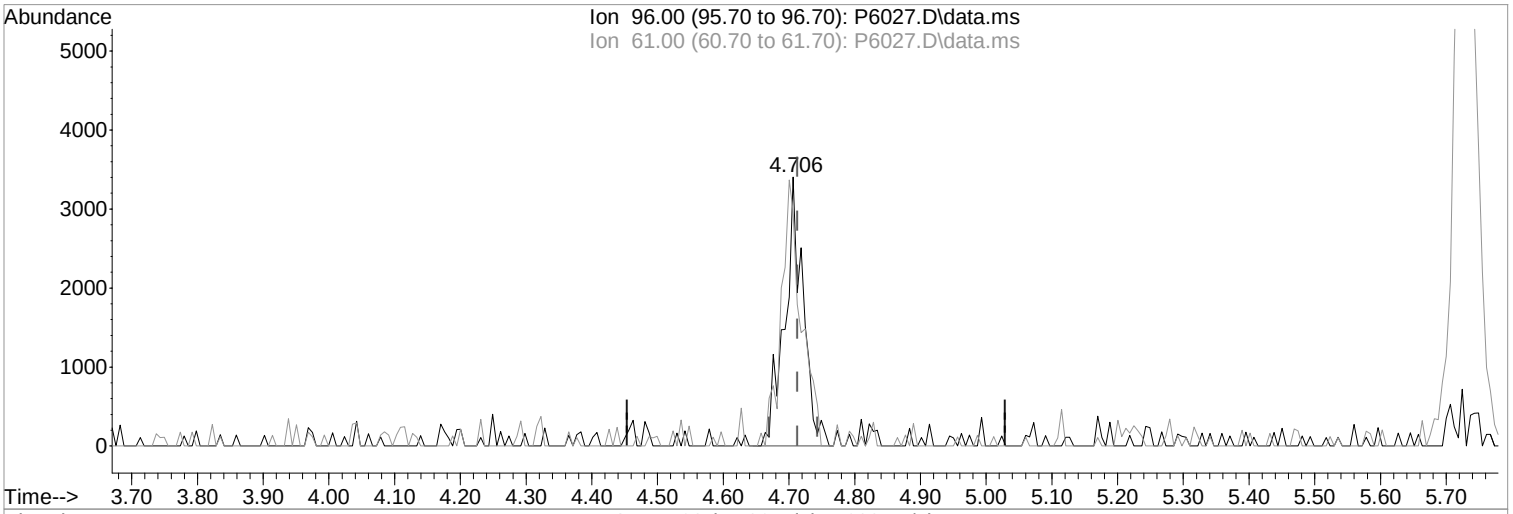
Before

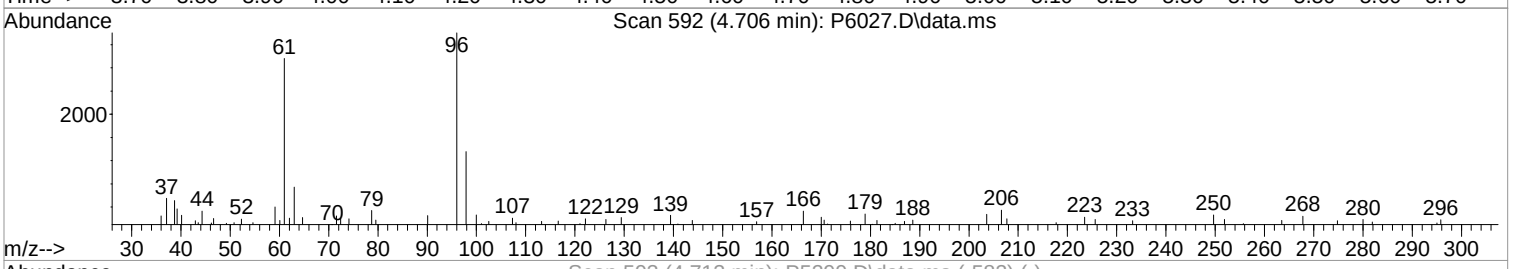
10/28/16

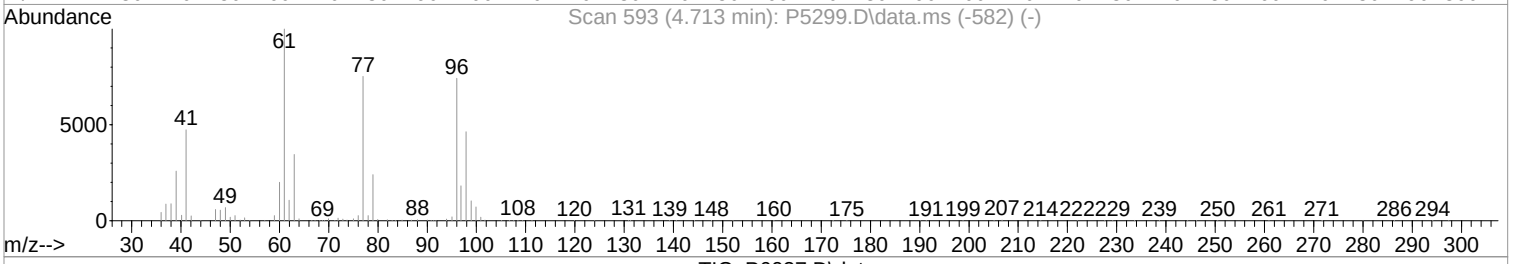
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

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

4.706min (-0.006) 1.07 ppb m

response 6687

Ion	Exp%	Act%
96.00	100	100
61.00	134.60	86.99#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

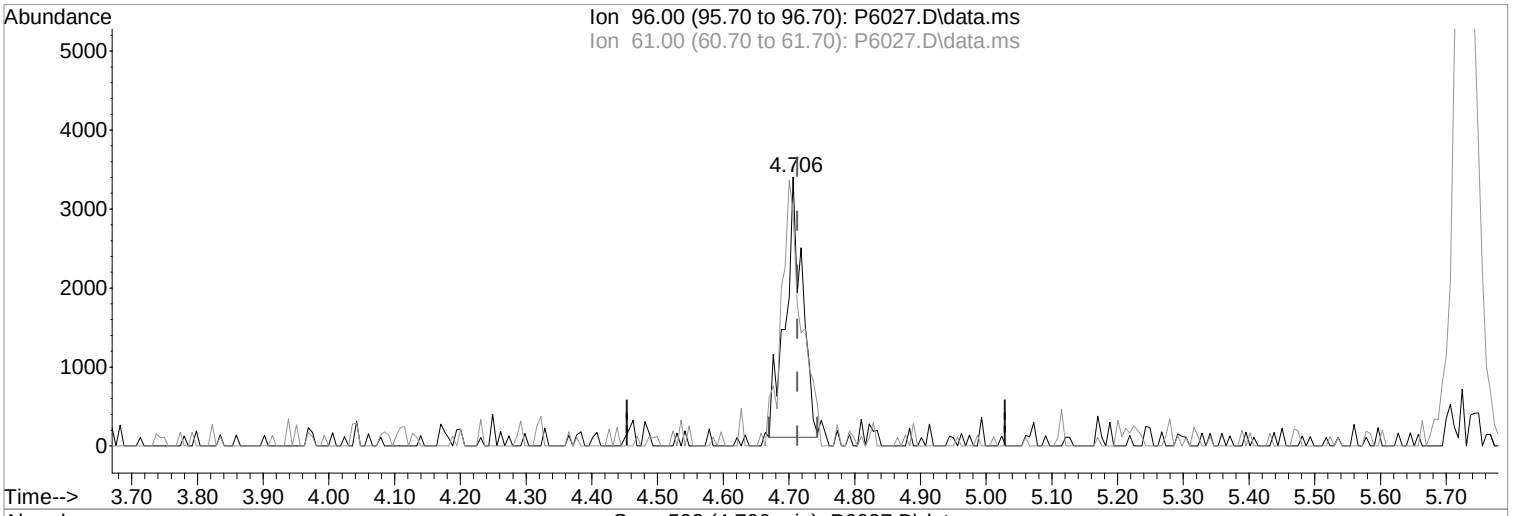
Poor integration.

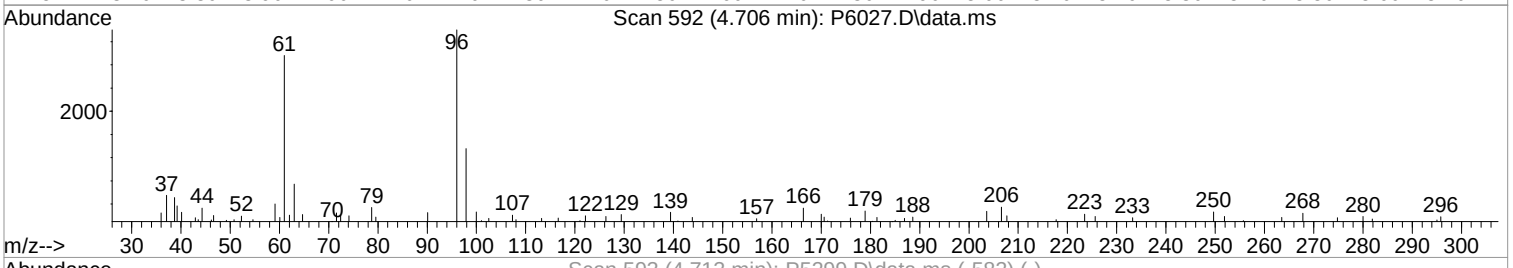
10/28/16

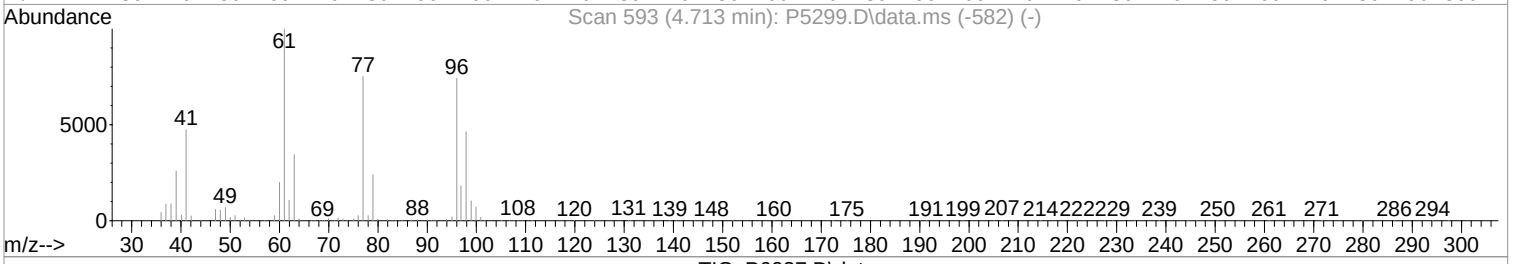
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

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

4.706min (-0.006) 0.95 ppb

response 5918

Ion	Exp%	Act%
96.00	100	100
61.00	134.60	86.99#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

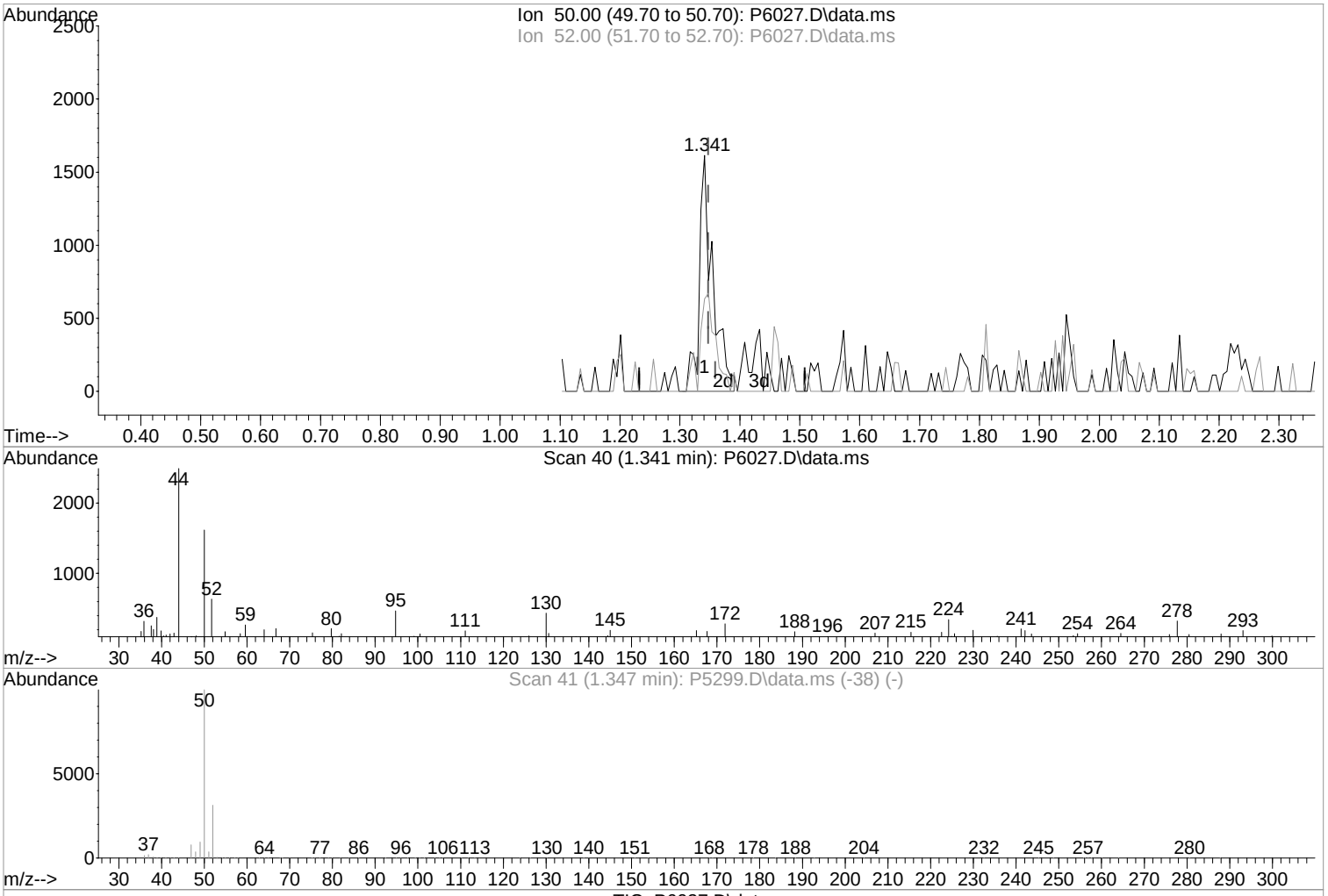
Before

10/28/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6027.D\data.ms

(3) Chloromethane (P)

1.341min (-0.006) 0.35 ppb m

response 2520

Ion	Exp%	Act%
50.00	100	100
52.00	31.20	39.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

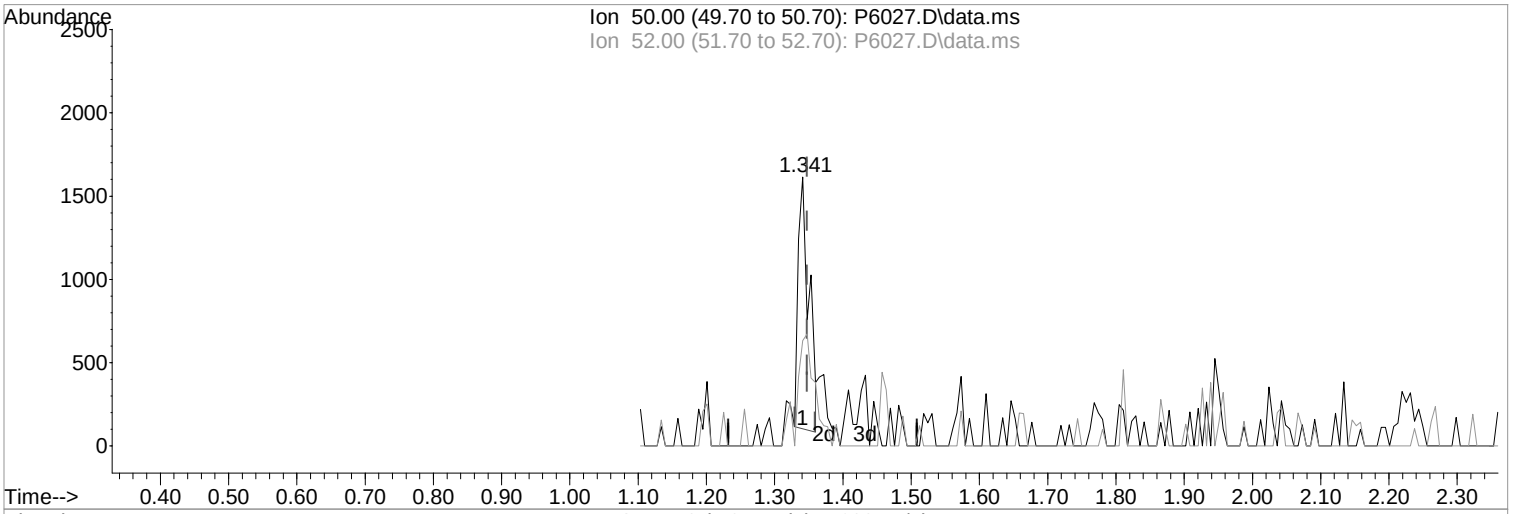
Split Peak

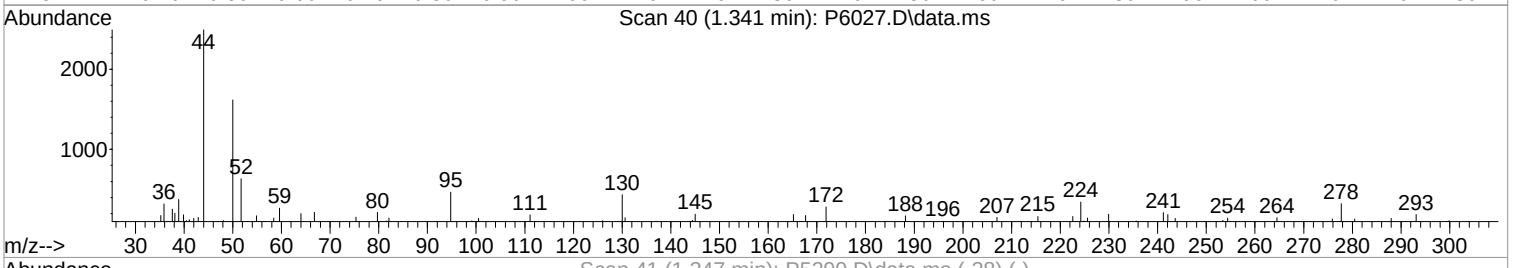
10/28/16

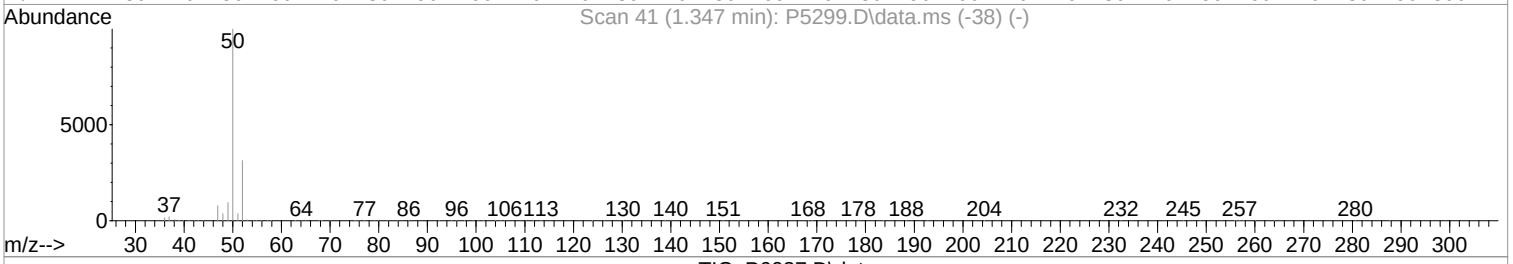
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

(3) Chloromethane (P)

1.341min (-0.006) 0.23 ppb

response 1657

Ion	Exp%	Act%
50.00	100	100
52.00	31.20	39.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

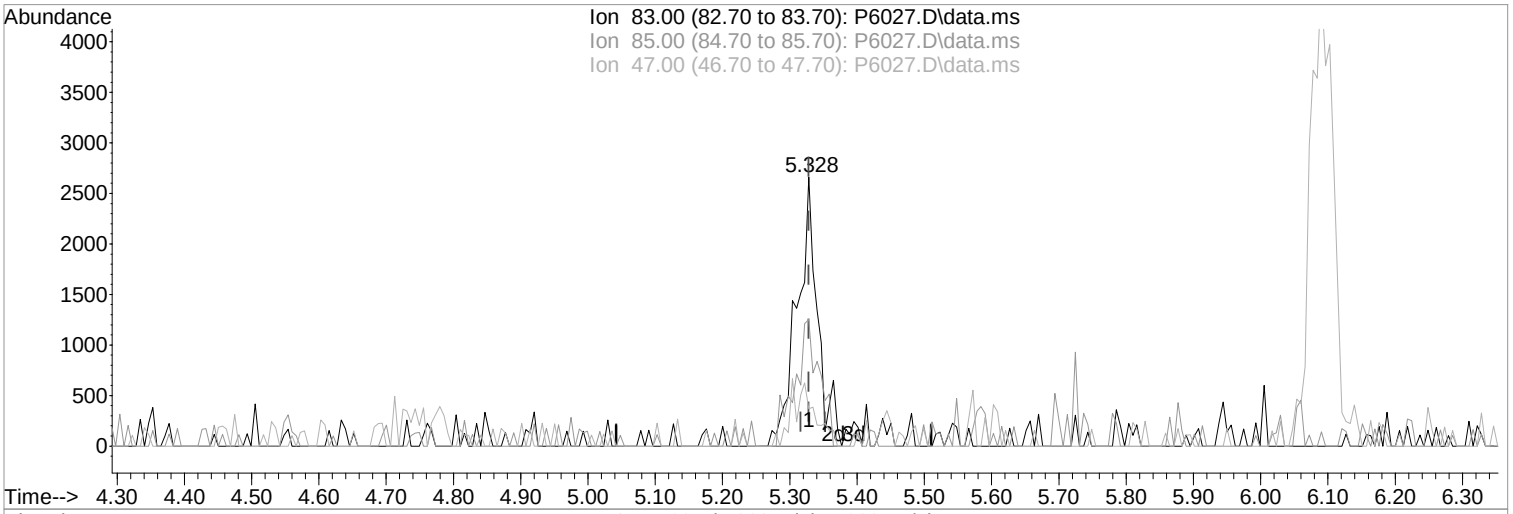
Before

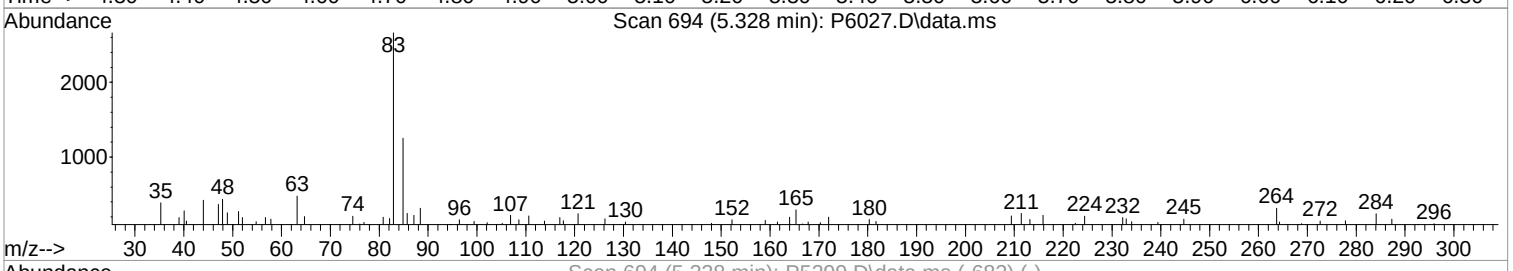
10/28/16

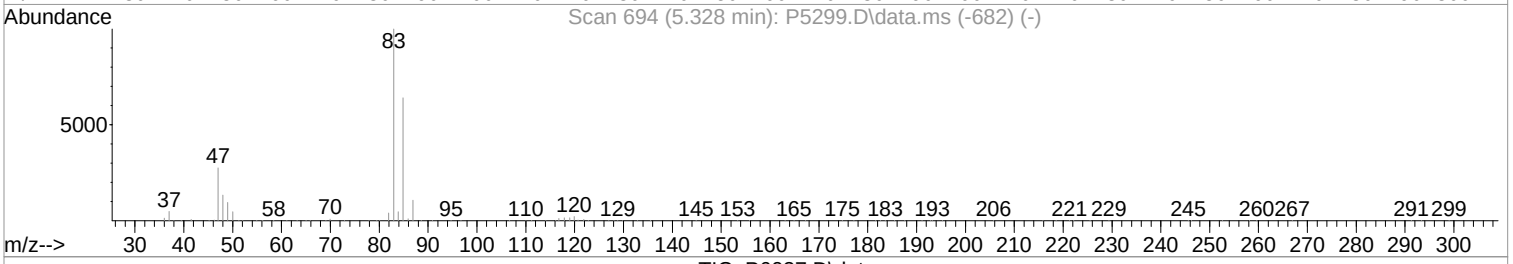
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.57 ppb m

response 5667

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	47.07
47.00	27.40	13.86
0.00	0.00	0.00

Manual Integration:

After

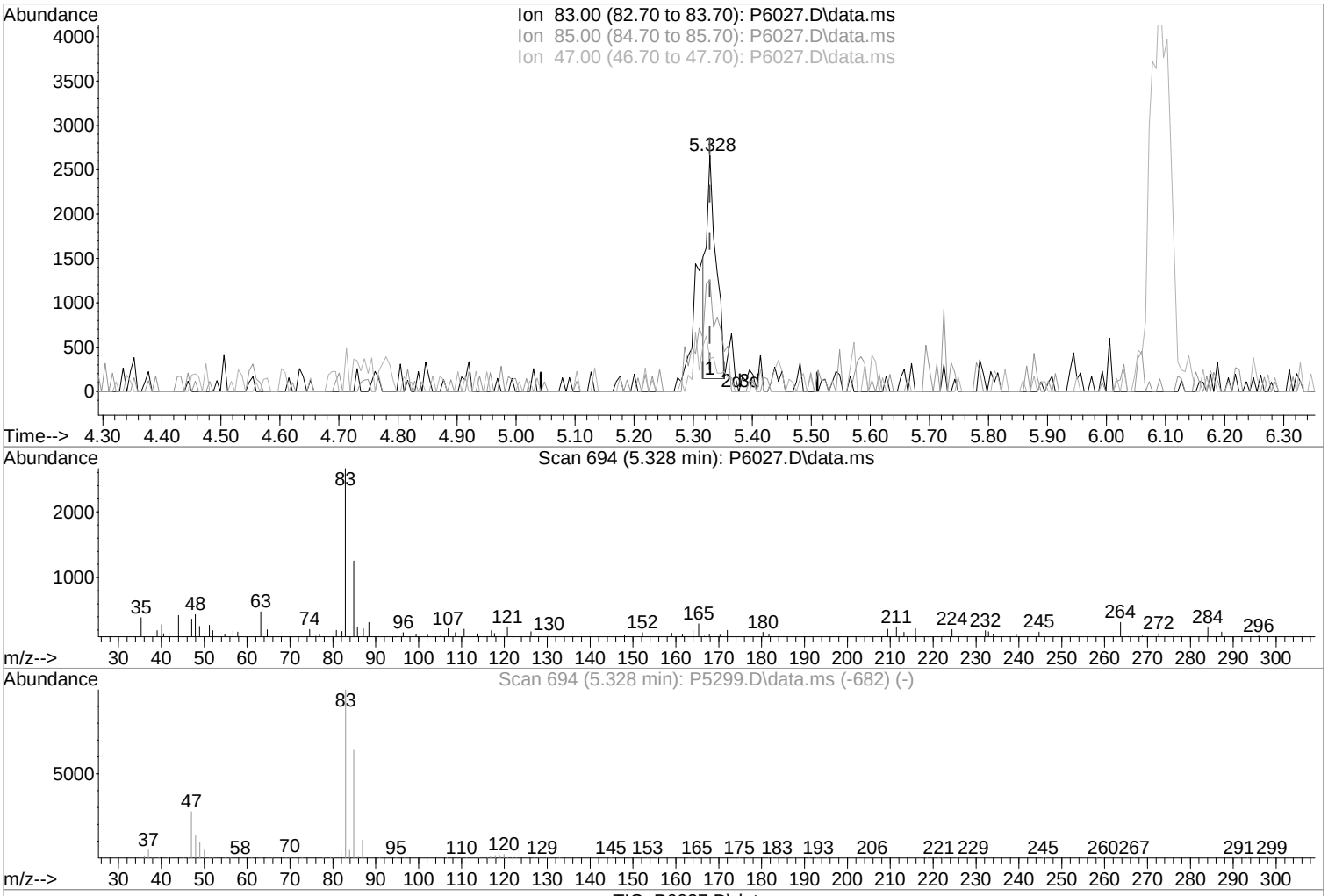
Split Peak

10/28/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6027.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.28 ppb

response 2800

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	56.31
47.00	27.40	13.86
0.00	0.00	0.00

Manual Integration:

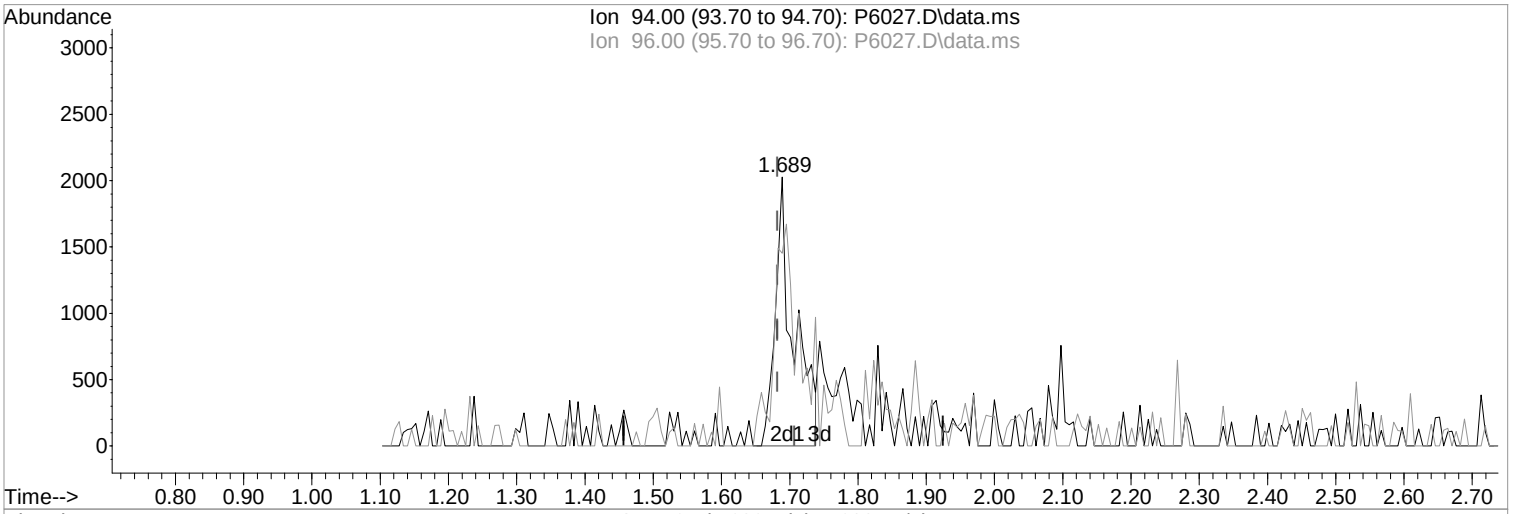
Before

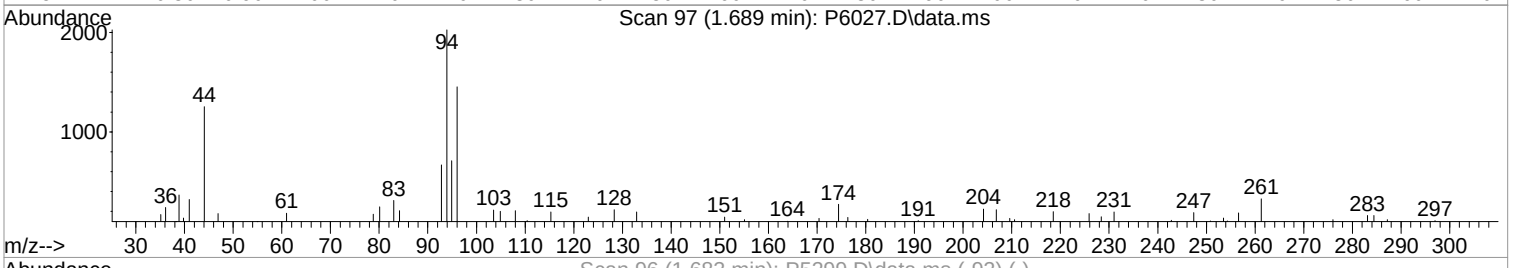
10/28/16

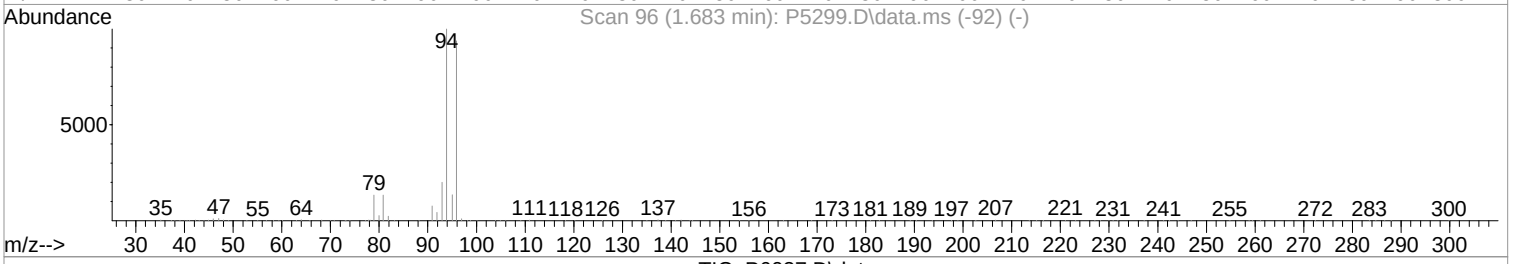
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 09:04:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6027.D\data.ms

(5) Bromomethane (P)

1.689min (+0.007) 0.69 ppb m

response 3793

Ion	Exp%	Act%
94.00	100	100
96.00	93.80	71.68#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 16:36:31 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

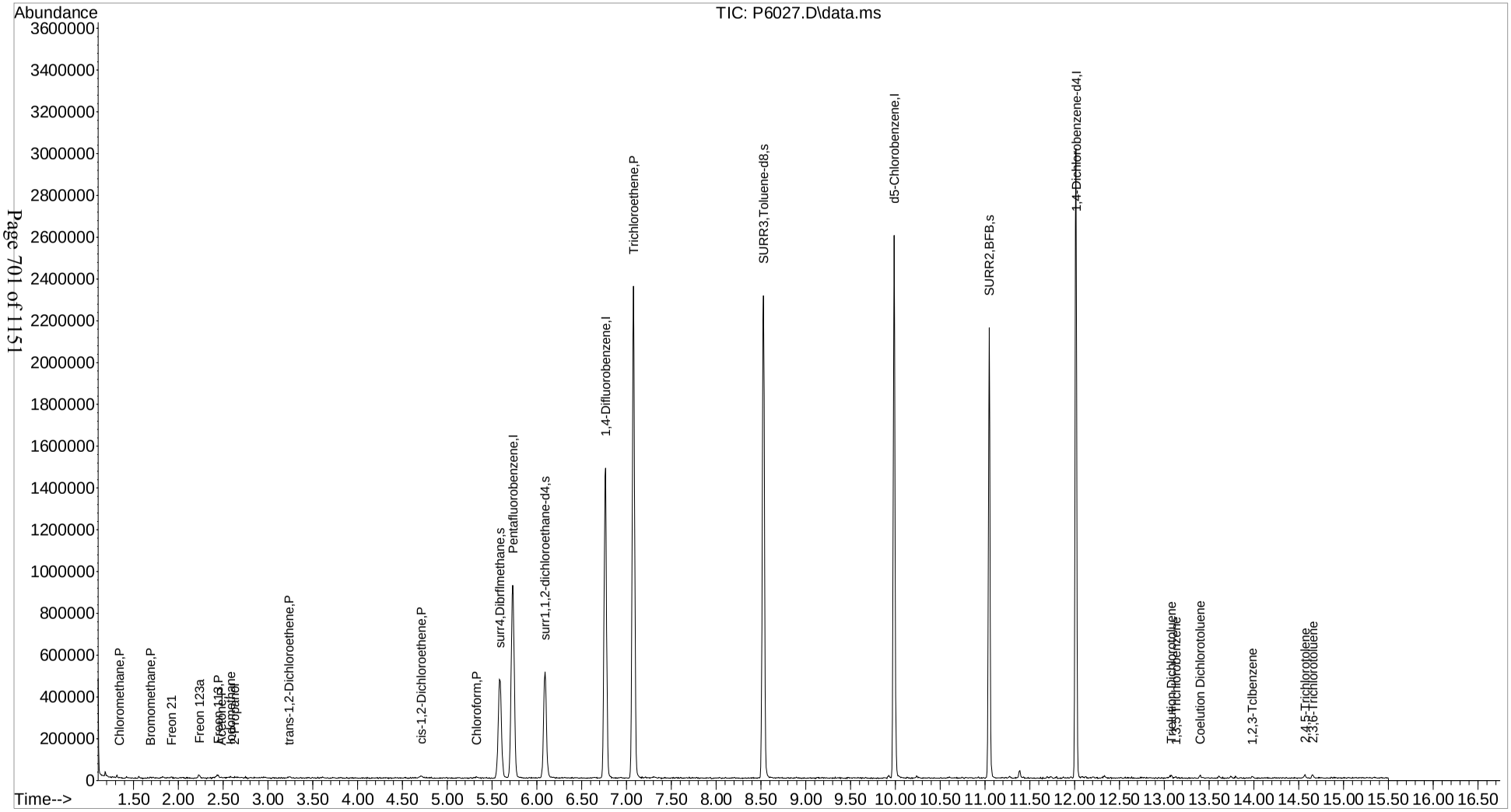
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	783764	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1267082	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1167842	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	592438	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	367109	54.29	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.58%				
48) surr1,1,2-dichloroetha...	6.090	65	401310	52.24	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.48%				
65) SURR3,Toluene-d8	8.529	98	1470248	53.06	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.12%				
70) SURR2,BFB	11.047	95	566607	52.41	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.82%				
Target Compounds							Qvalue
3) Chloromethane	1.341	50	2520m	0.35	ppb		
5) Bromomethane	1.689	94	3793m	0.69	ppb		
7) Freon 21	1.920	67	3074	0.37	ppb		88
10) Freon 123a	2.231	67	5973	1.20	ppb		92
14) Freon 113	2.439	101	4395	0.76	ppb		79
15) Acetone	2.481	43	2989	2.34	ppb		85
16) 2-Propanol	2.628	45	1778	6.52	ppb		78
17) Iodomethane	2.579	142	4515	0.62	ppb		71
26) trans-1,2-Dichloroethene	3.237	96	2239	0.37	ppb	#	59
34) cis-1,2-Dichloroethene	4.706	96	6687m	1.07	ppb		
40) Chloroform	5.328	83	5667m	0.57	ppb		
54) Trichloroethene	7.078	130	811488	121.29	ppb		95
112) Trielution Dichlorotol...	13.077	125	4915	0.43	ppb	#	87
113) 1,3,5 Trichlorobenzene	13.132	180	2045	0.20	ppb	#	77
114) Coelution Dichlorotoluene	13.394	125	3961	0.32	ppb	#	69
118) 1,2,3-Tclbenzene	13.985	180	1915	0.24	ppb		92
119) 2,4,5-Trichlorotolene	14.570	159	2594m	0.47	ppb		
120) 2,3,6-Trichlorotoluene	14.656	159	2942	0.57	ppb		96

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

Quantitation Report (QT Reviewed)

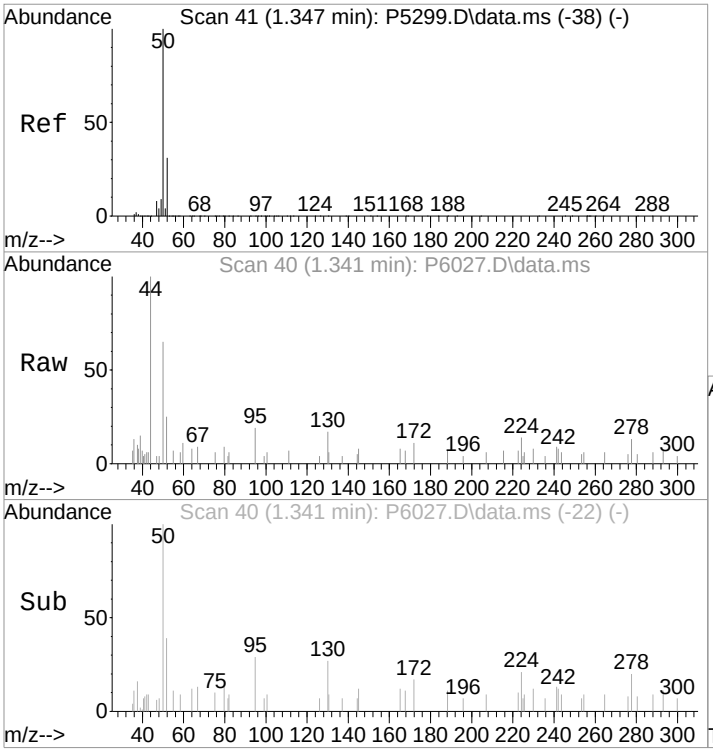
Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6027.D
Acq On : 28 Oct 2016 12:53 am
Operator : K.Ruest
Sample : R1611185-031|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 28 16:36:31 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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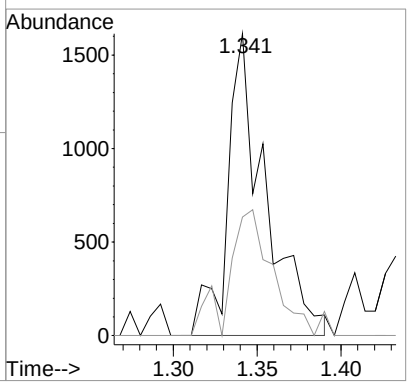
1st 10/31/16
2nd 10/31/16

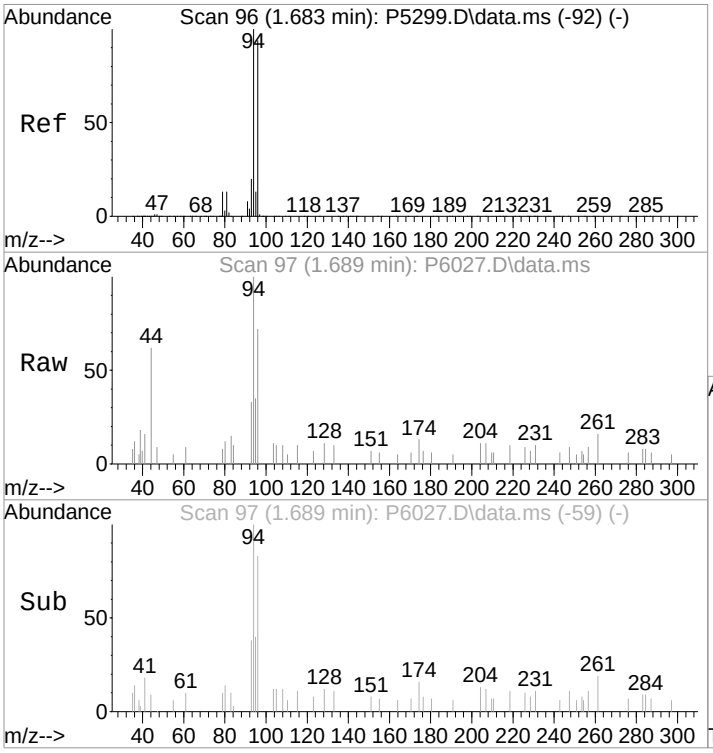


#3
Chloromethane
Concen: 0.35 ppb m
RT: 1.341 min Scan# 40
Delta R.T. -0.006 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 50 Resp: 2520

Ion	Ratio	Lower	Upper
50	100		
52	39.2	11.2	51.2

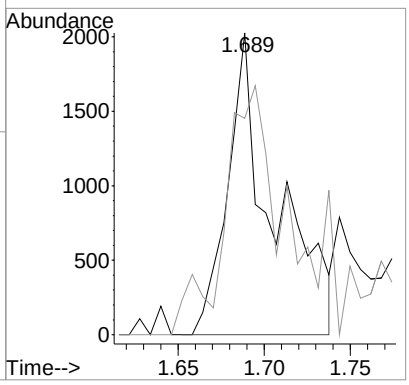


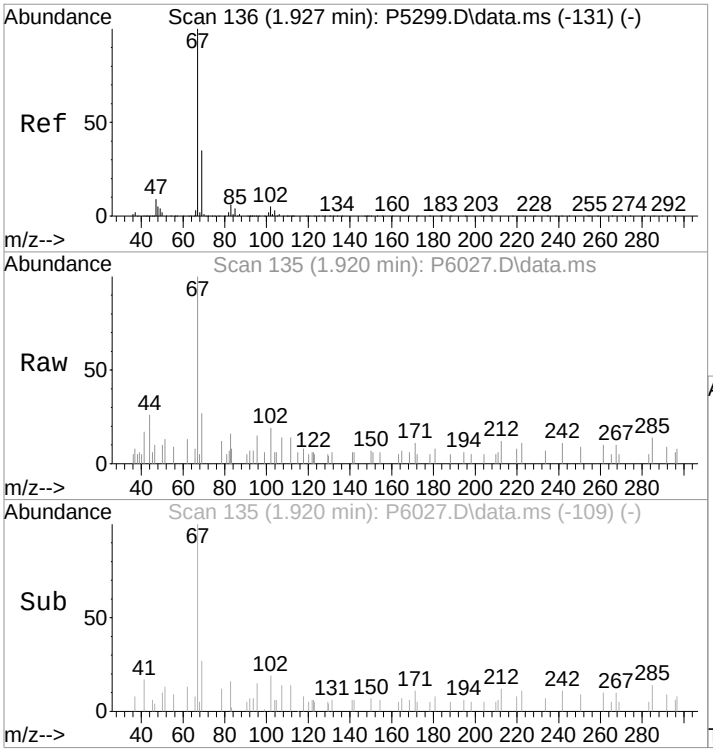


#5
Bromomethane
Concen: 0.69 ppb m
RT: 1.689 min Scan# 97
Delta R.T. 0.007 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 94 Resp: 3793

Ion	Ratio	Lower	Upper
94	100		
96	71.7	73.8	113.8#

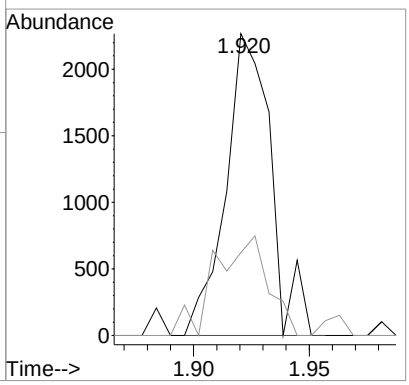


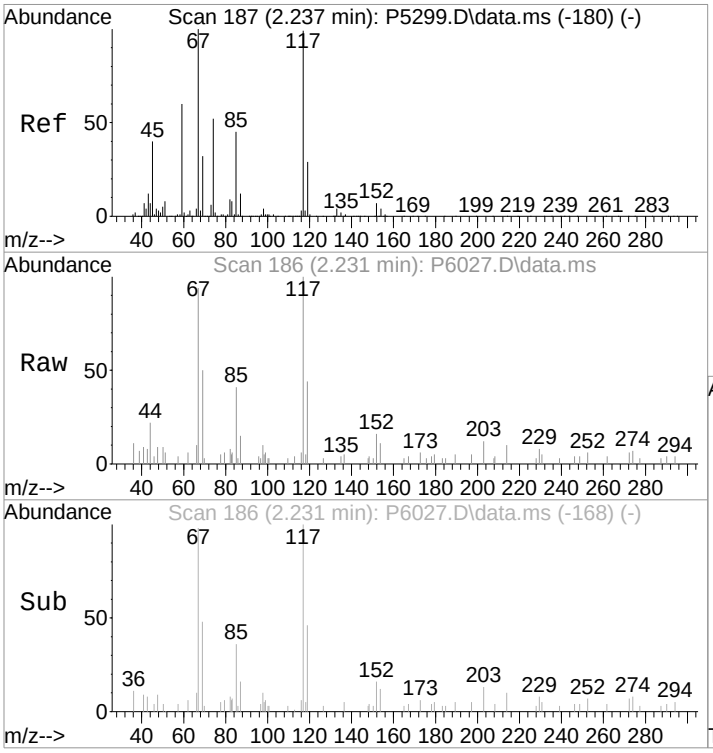


#7
Freon 21
Concen: 0.37 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 67 Resp: 3074

Ion	Ratio	Lower	Upper
67	100		
69	27.4	14.4	54.4

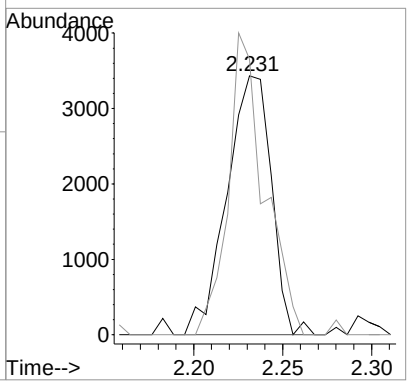


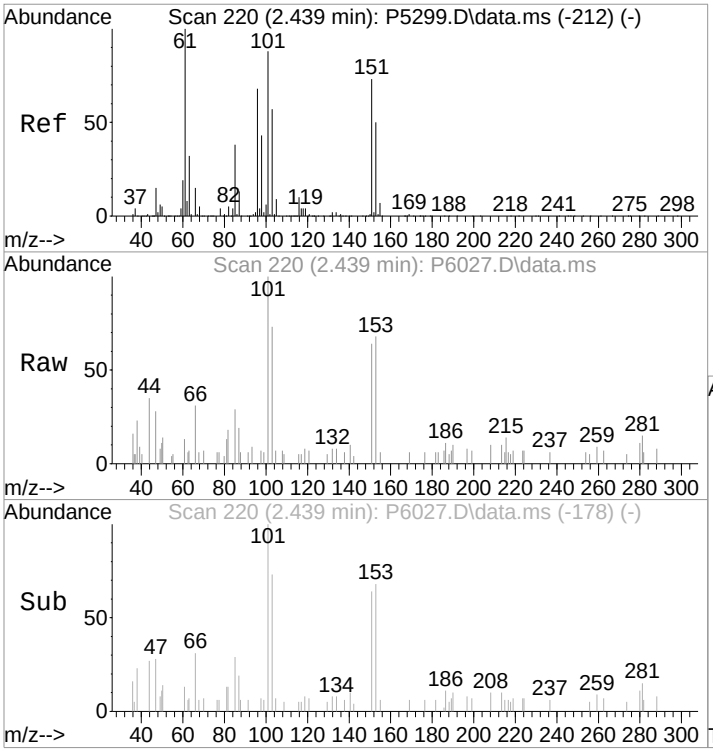


#10
Freon 123a
Concen: 1.20 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 67 Resp: 5973

Ion	Ratio	Lower	Upper
67	100		
117	106.4	78.8	118.8

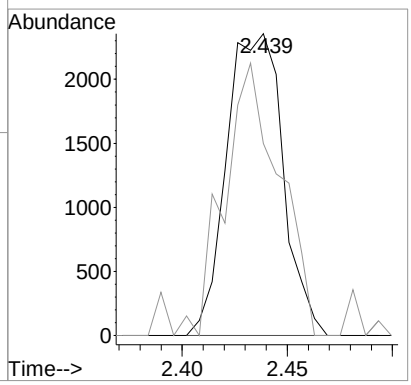


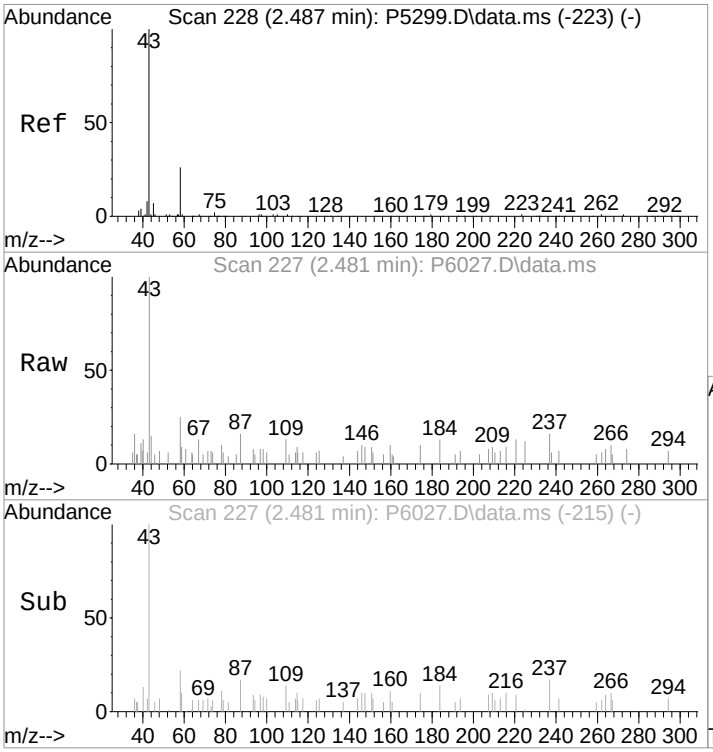


#14
Freon 113
Concen: 0.76 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:101 Resp: 4395

Ion	Ratio	Lower	Upper
101	100		
151	63.6	62.6	102.6

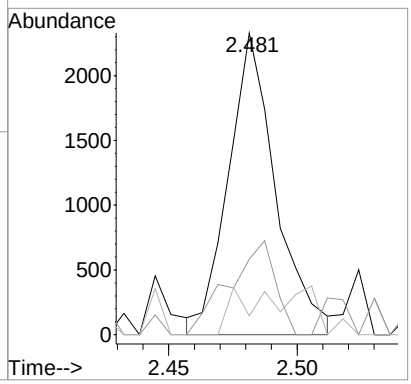


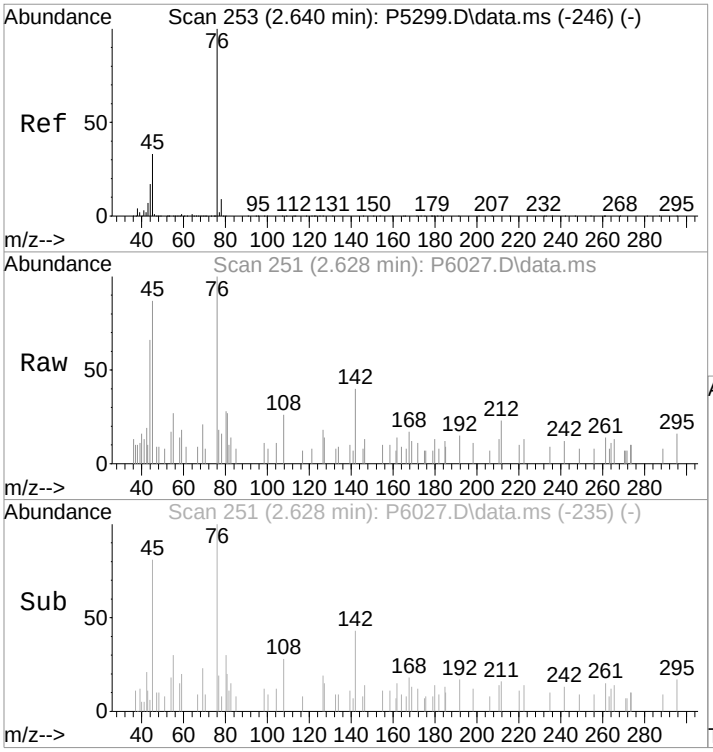


#15
Acetone
Concen: 2.34 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 43 Resp: 2989

Ion	Ratio	Lower	Upper
43	100		
58	34.1	5.3	45.3
42	6.2	0.0	28.7

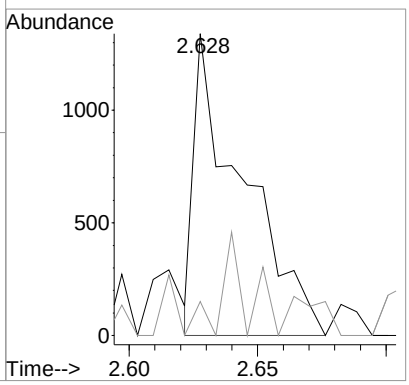


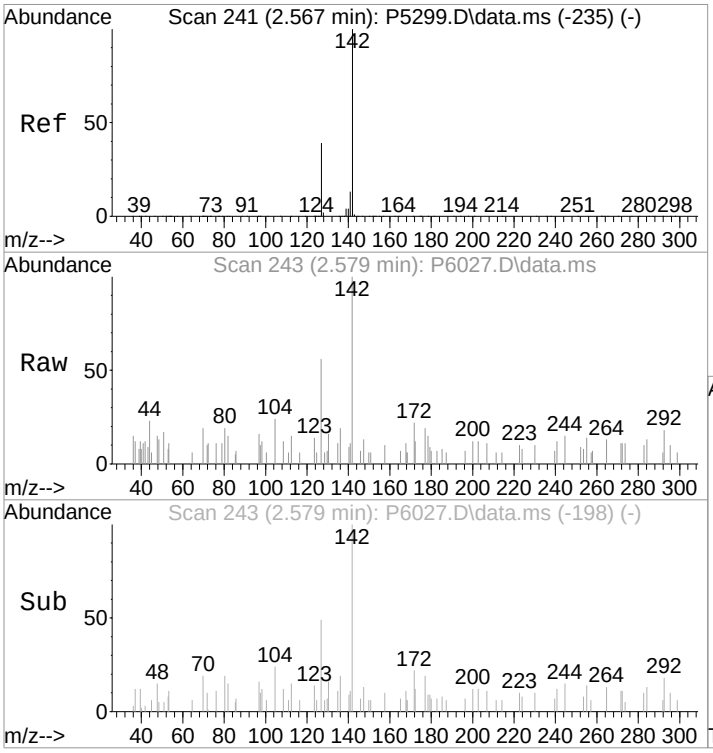


#16
2-Propanol
Concen: 6.52 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.012 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 45 Resp: 1778

Ion	Ratio	Lower	Upper
45	100		
43	11.3	1.6	41.6

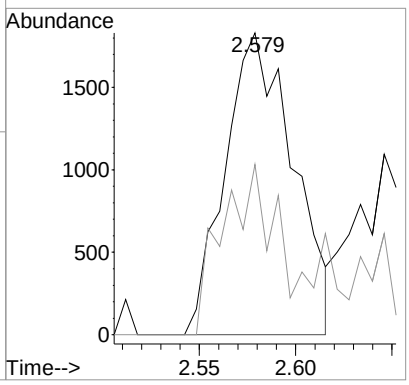


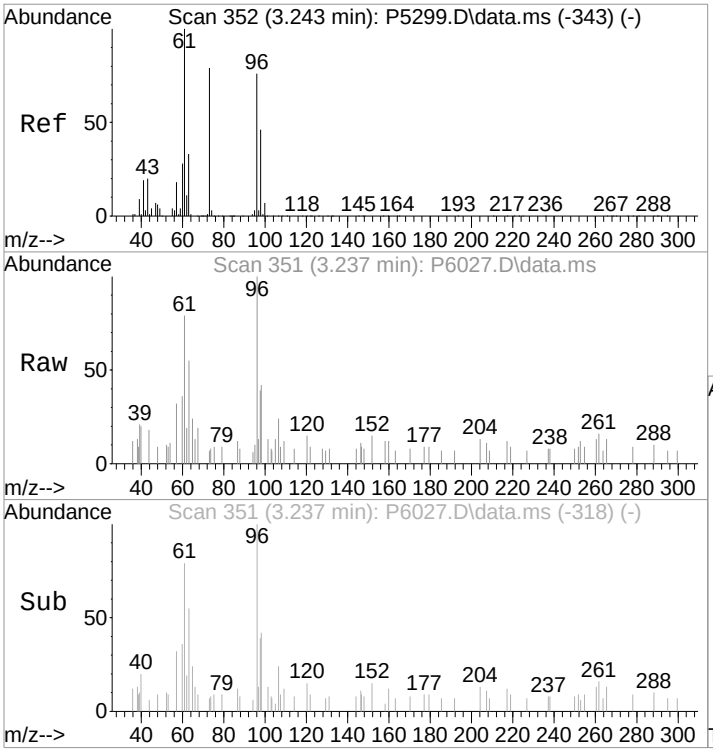


#17
Iodomethane
Concen: 0.62 ppb
RT: 2.579 min Scan# 243
Delta R.T. 0.012 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:142 Resp: 4515

Ion	Ratio	Lower	Upper
142	100		
127	56.4	18.7	58.7

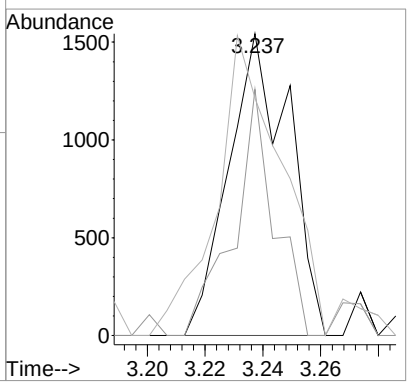


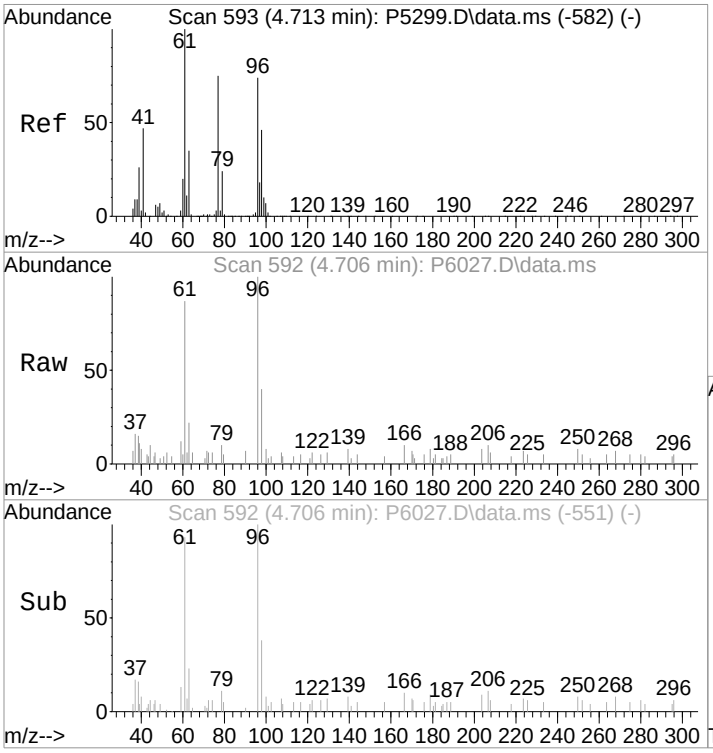


#26
trans-1,2-Dichloroethene
Concen: 0.37 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 96 Resp: 2239

Ion	Ratio	Lower	Upper
96	100		
98	72.2	41.0	81.0
61	69.7	112.4	152.4#

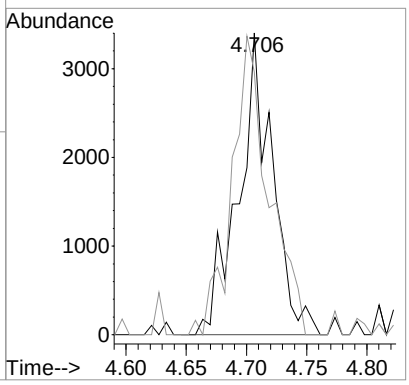


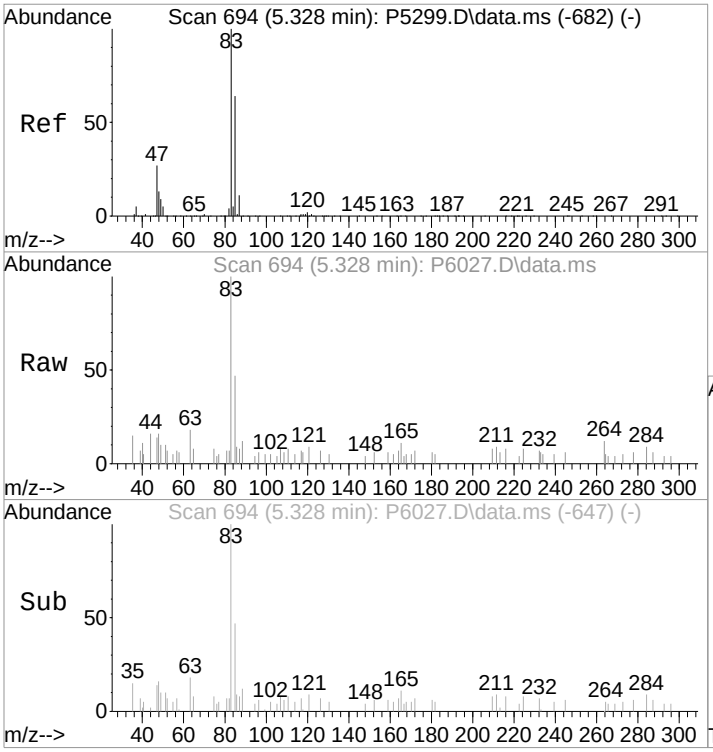


#34
cis-1,2-Dichloroethene
Concen: 1.07 ppb m
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 96 Resp: 6687

Ion	Ratio	Lower	Upper
96	100		
61	87.0	114.6	154.6#

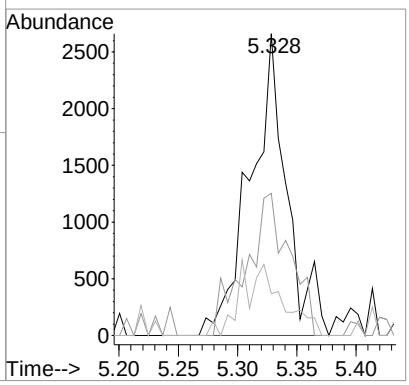


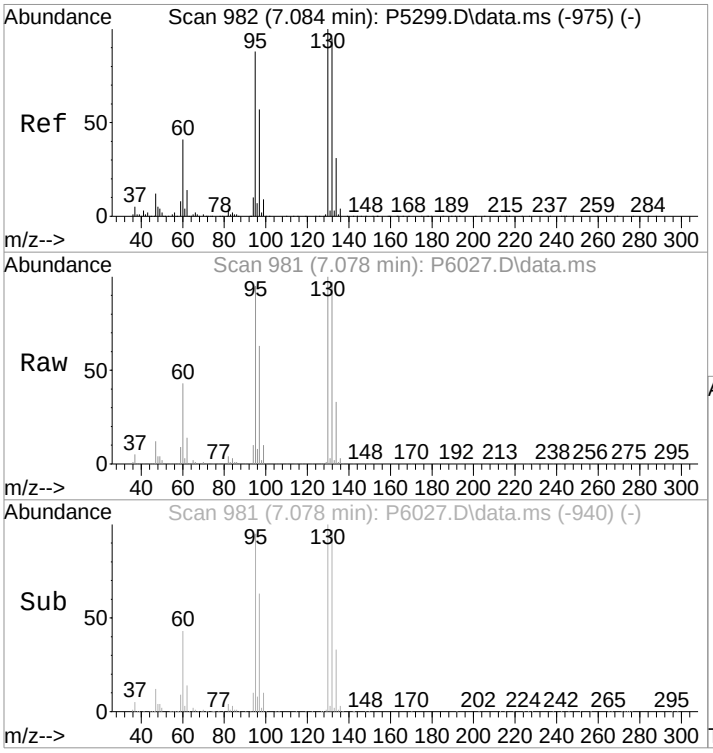


#40
Chloroform
Concen: 0.57 ppb m
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion: 83 Resp: 5667

Ion	Ratio	Lower	Upper
83	100		
85	47.1	44.1	84.1
47	13.9	7.4	47.4

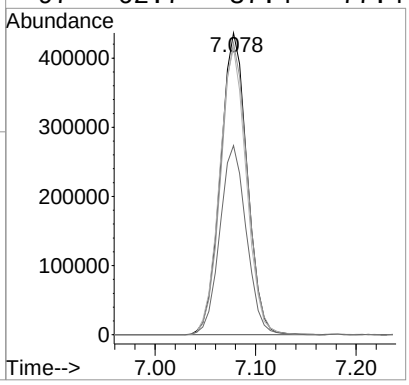


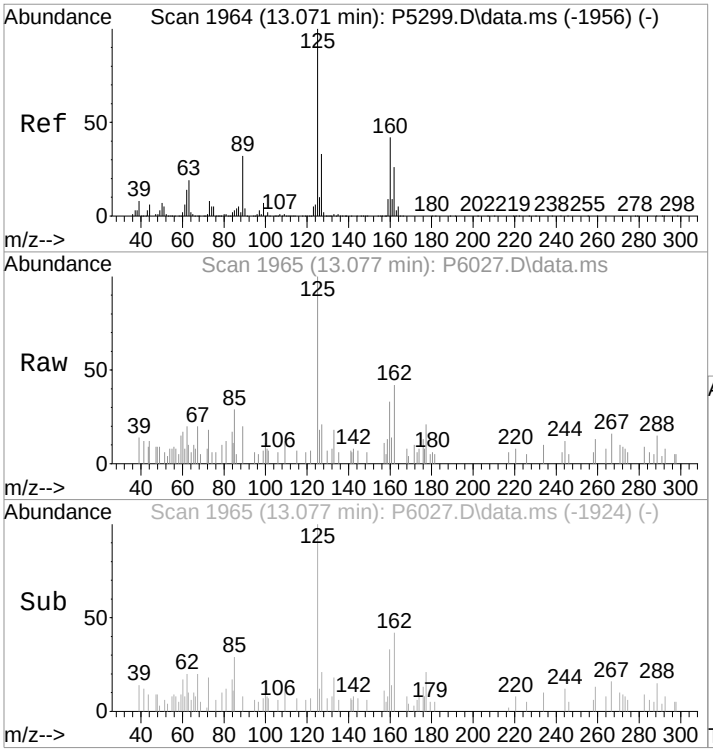


#54
Trichloroethene
Concen: 121.29 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:130 Resp: 811488

Ion	Ratio	Lower	Upper
130	100		
132	96.7	75.2	115.2
95	95.0	68.1	108.1
97	62.7	37.4	77.4

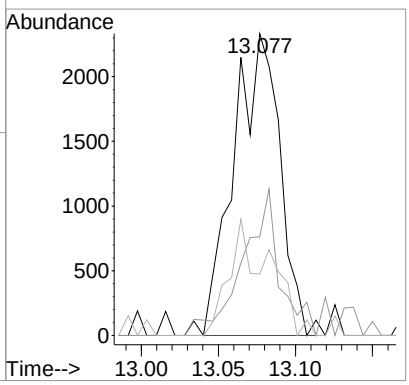


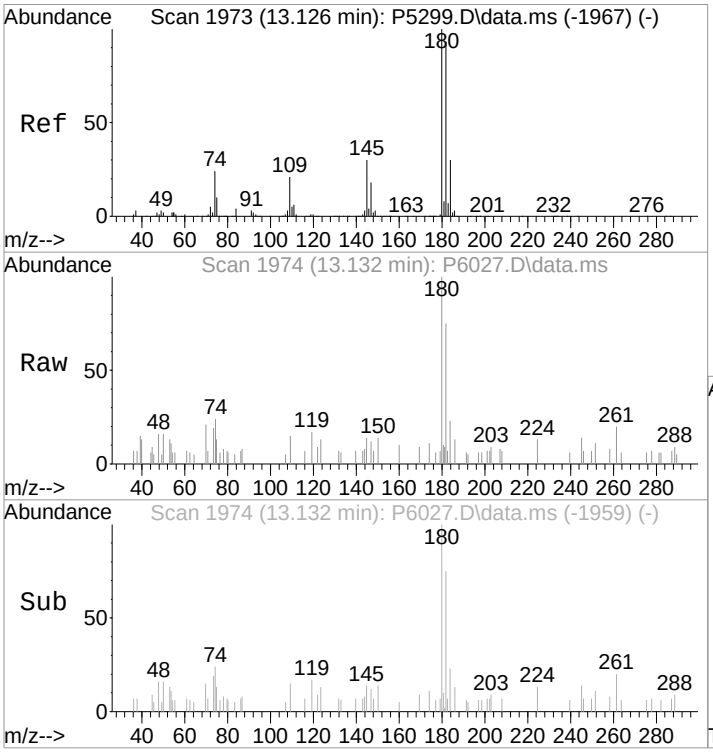


#112
Trielution Dichlorotoluene
Concen: 0.43 ppb
RT: 13.077 min Scan# 1965
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:125 Resp: 4915

Ion	Ratio	Lower	Upper
125	100		
160	46.5	33.6	50.4
89	20.4	25.8	38.8#

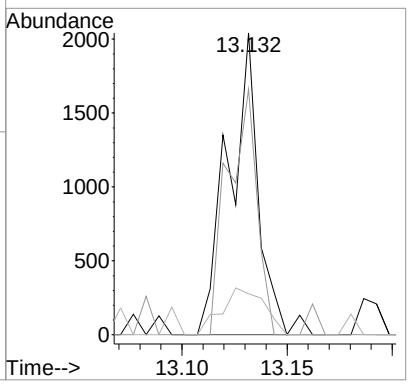


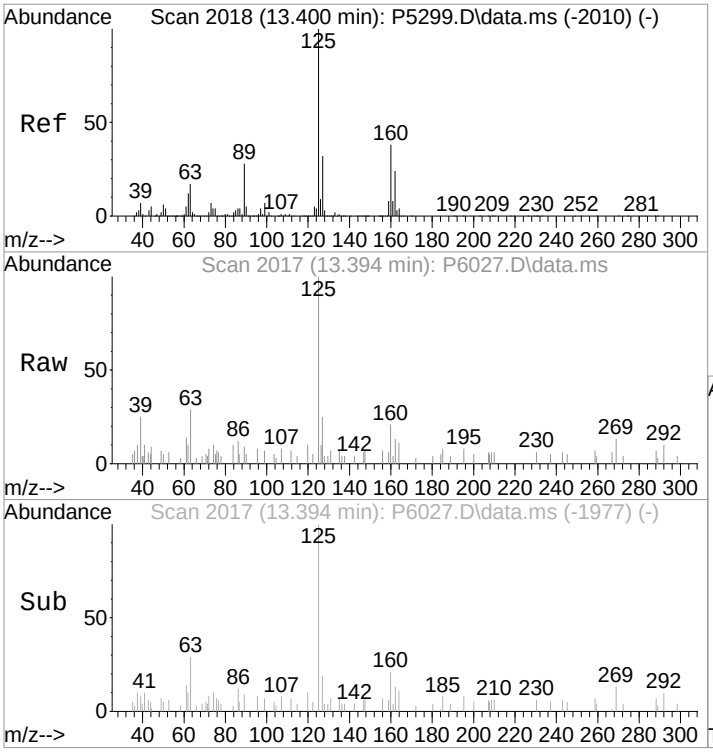


#113
1,3,5 Trichlorobenzene
Concen: 0.20 ppb
RT: 13.132 min Scan# 1974
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:180 Resp: 2045

Ion	Ratio	Lower	Upper
180	100		
182	73.9	74.6	111.8#
145	12.3	23.9	35.9#

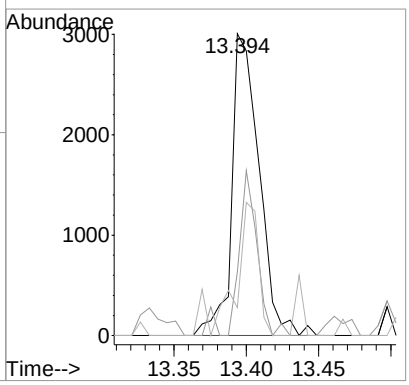


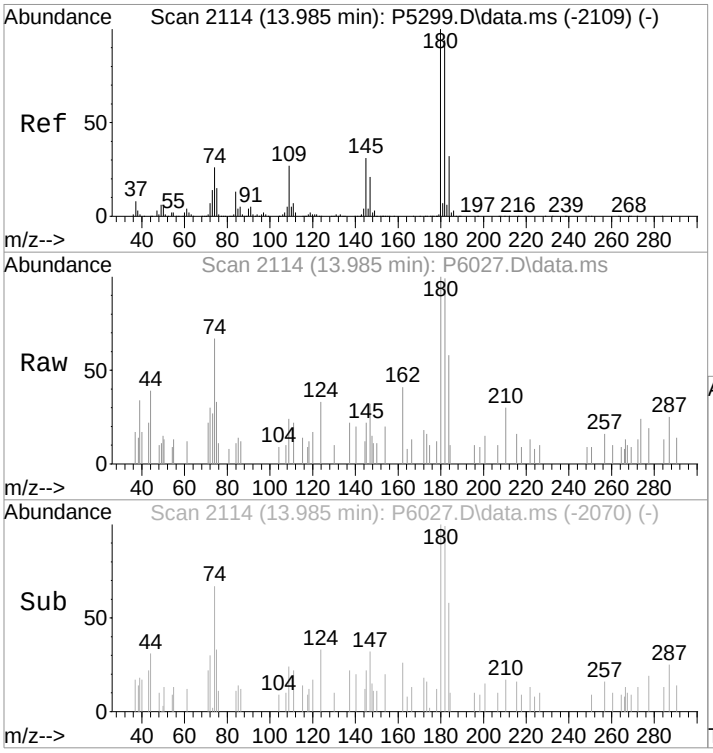


#114
Coelution Dichlorotoluene
Concen: 0.32 ppb
RT: 13.394 min Scan# 2017
Delta R.T. -0.006 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:125 Resp: 3961

Ion	Ratio	Lower	Upper
125	100		
160	21.0	30.2	45.2#
89	9.2	22.7	34.1#

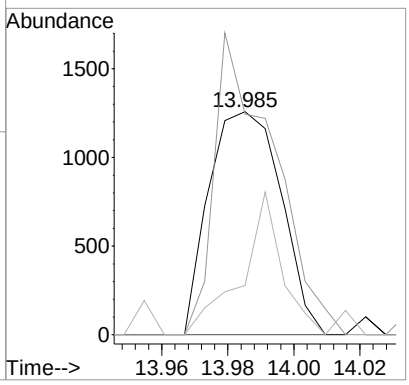


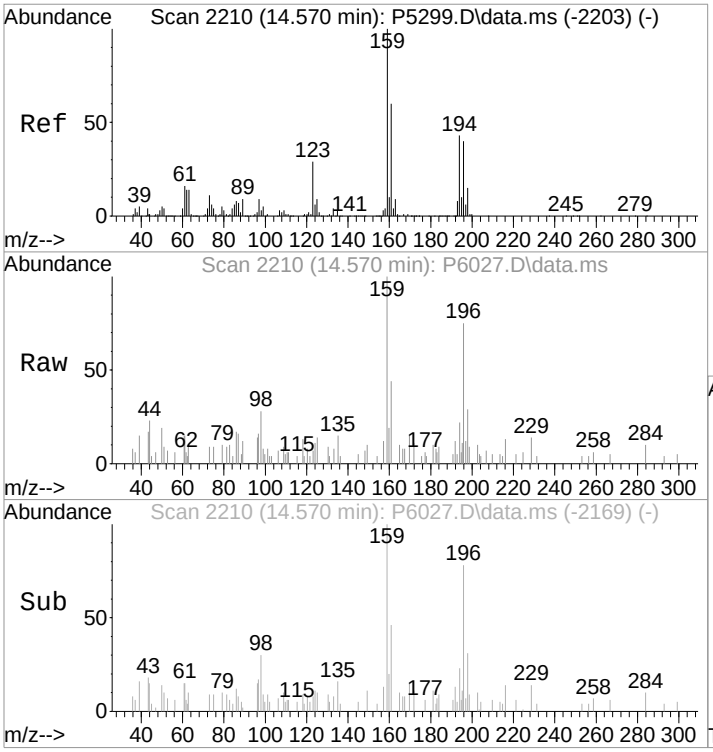


#118
1,2,3-Tclbenzene
Concen: 0.24 ppb
RT: 13.985 min Scan# 2114
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:180 Resp: 1915

Ion	Ratio	Lower	Upper
180	100		
182	98.9	73.9	113.9
145	22.2	11.2	51.2

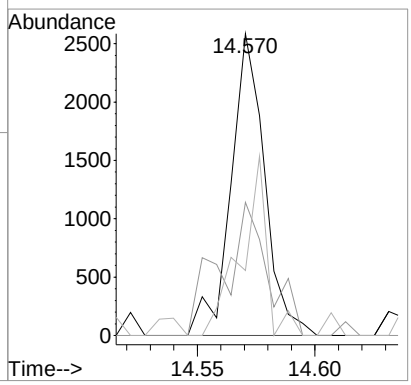


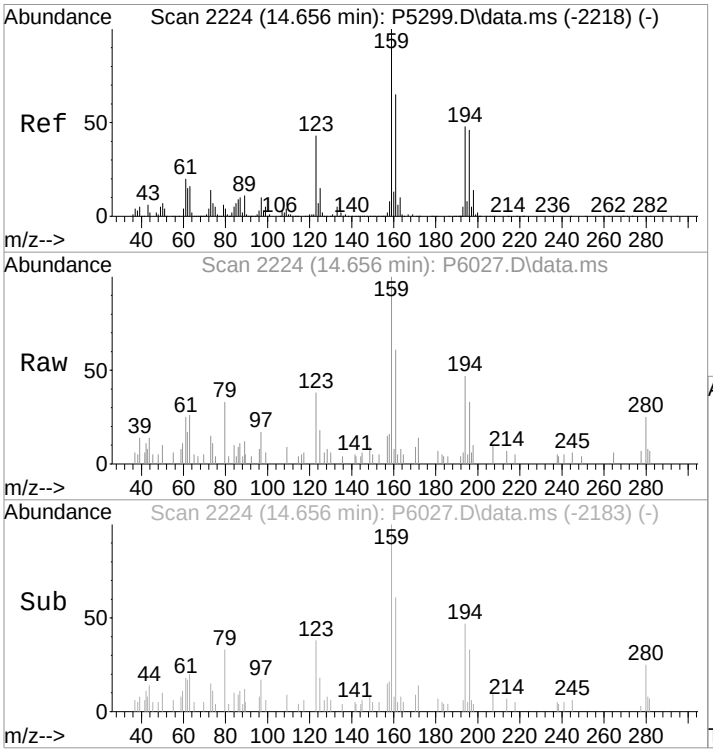


#119
2,4,5-Trichlorotolene
Concen: 0.47 ppb m
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:159 Resp: 2594

Ion	Ratio	Lower	Upper
159	100		
161	44.1	48.1	72.1#
194	21.6	34.5	51.7#

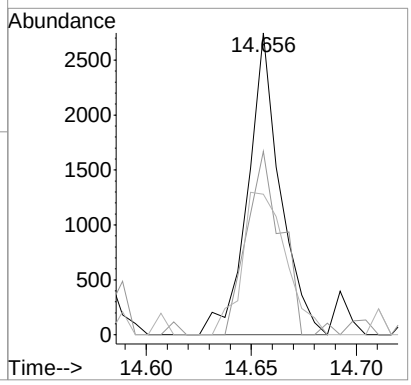




#120
2,3,6-Trichlorotoluene
Concen: 0.57 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6027.D
Acq: 28 Oct 2016 12:53 am

Tgt Ion:159 Resp: 2942

Ion	Ratio	Lower	Upper
159	100		
161	60.7	52.3	78.5
194	46.5	38.6	57.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5910.D
Acq On : 24 Oct 2016 8:24 pm
Operator : K.Ruest
Sample : R1611185-032|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 25 12:26:56 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M repeat 2.5
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	799339	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1313728	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1250145	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	649940	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	367667	52.44	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.88%				
48) surr1,1,2-dichloroetha...	6.090	65	411541	51.67	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.34%				
65) SURR3,Toluene-d8	8.529	98	1583285	55.11	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.22%				
70) SURR2,BFB	11.047	95	610560	54.47	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.94%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	456848	72.24	ppb		100
10) Freon 123a	2.231	67	5894	1.16	ppb		97
13) 1,1-Diclethene	2.426	96	10492	1.89	ppb	#	84
14) Freon 113	2.433	101	39296	6.67	ppb		85
18) Carbon Disulfide	2.628	76	4098	0.23	ppb		81
26) trans-1,2-Dichloroethene	3.243	96	10110	1.62	ppb		99
28) 1,1-Diclethane	3.786	63	17285	1.67	ppb		92
34) cis-1,2-Dichloroethene	4.706	96	1933216	303.08	ppb		95
41) 1,1,1-Trichloroethane	5.590	97	7158	0.77	ppb	#	80
54) Trichloroethene	7.072	130	24061	3.47	ppb	#	86

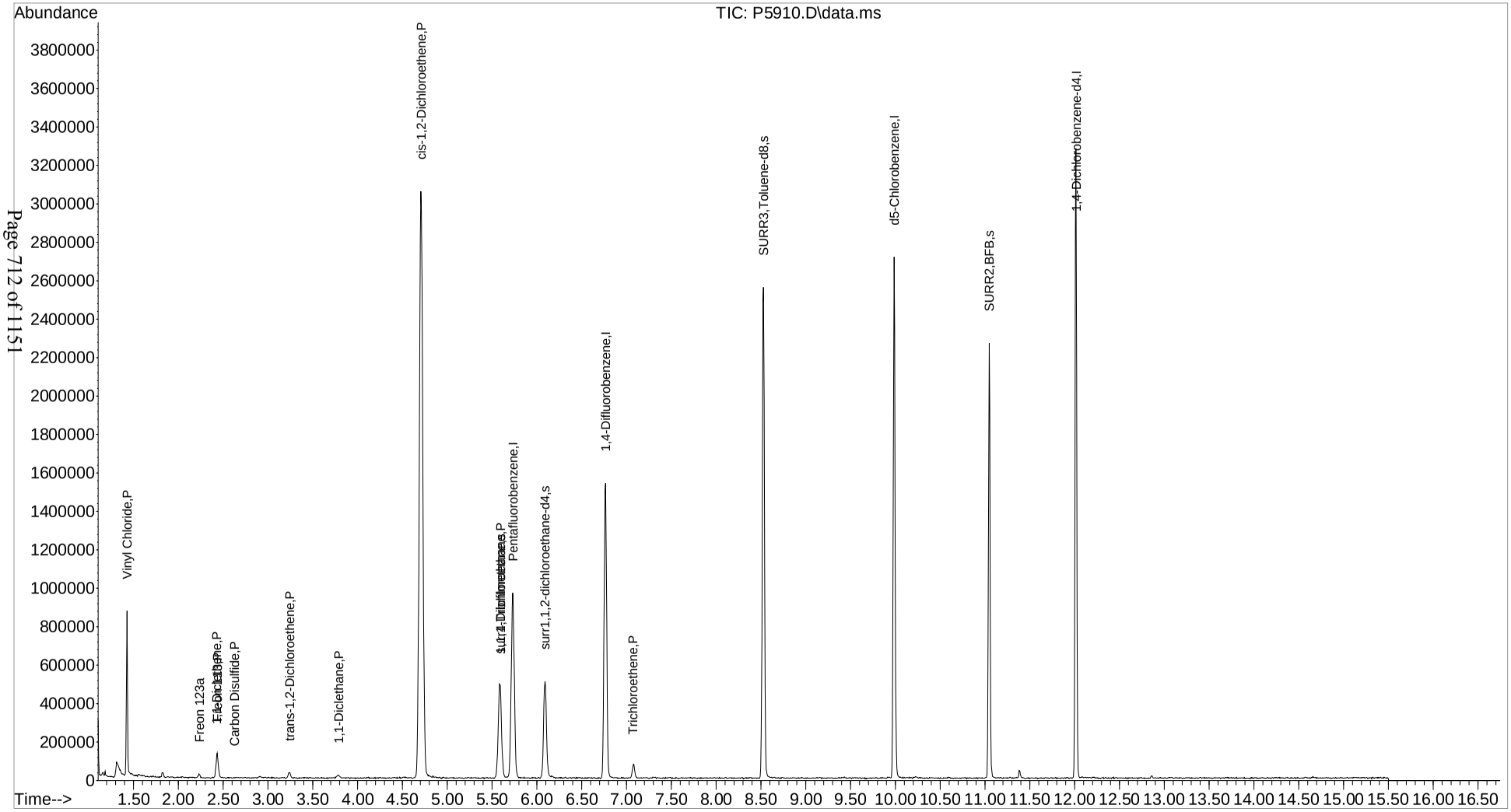
E-Over Calibration

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

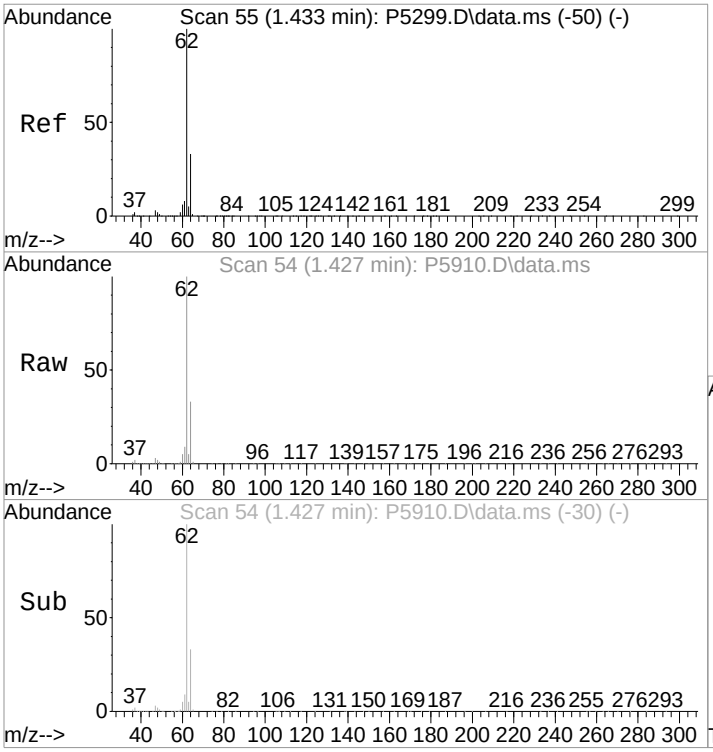
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5910.D
Acq On : 24 Oct 2016 8:24 pm
Operator : K.Ruest
Sample : R1611185-032|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 25 12:26:56 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



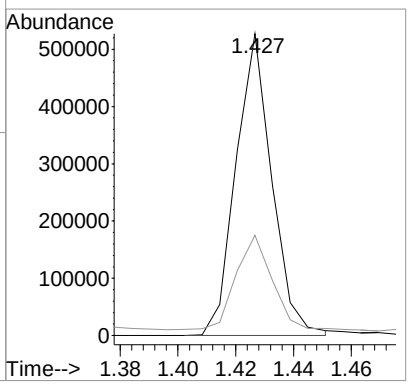
1st 10/25/16
2nd 10/25/16

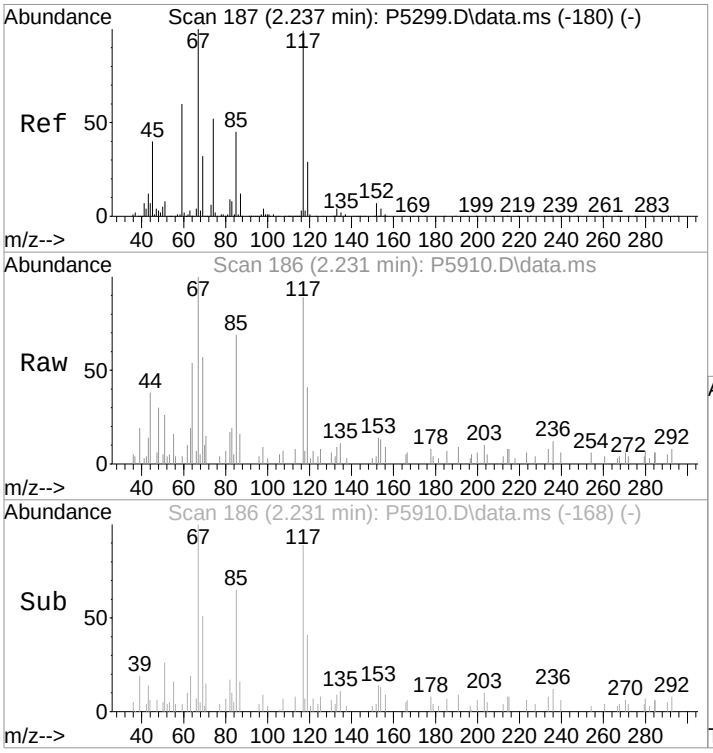


#4
Vinyl Chloride
Concen: 72.24 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 62 Resp: 456848

Ion	Ratio	Lower	Upper
62	100		
64	33.2	13.1	53.1

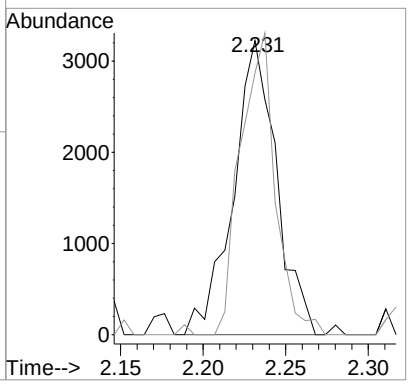


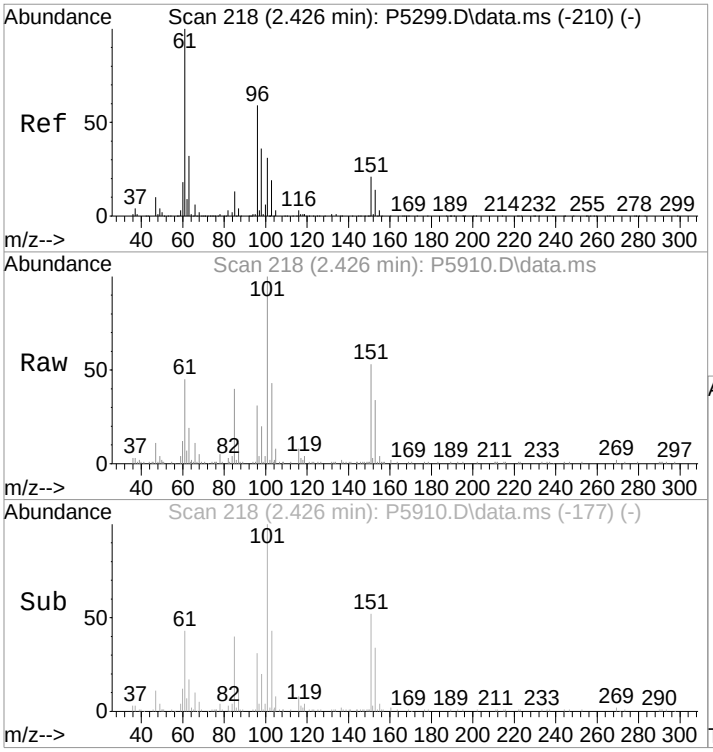


#10
Freon 123a
Concen: 1.16 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 67 Resp: 5894

Ion	Ratio	Lower	Upper
67	100		
117	95.6	78.8	118.8

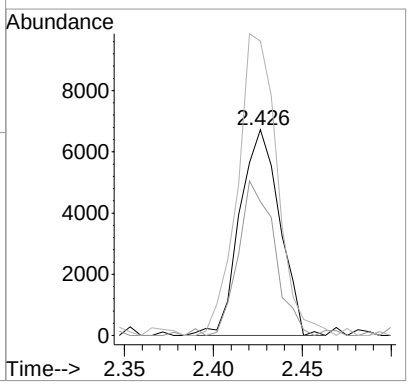


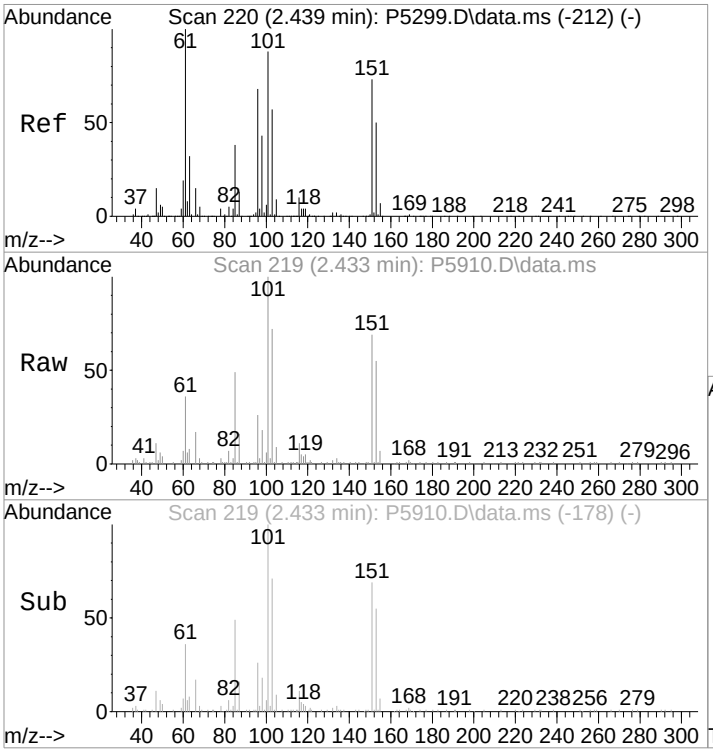


#13
1,1-Diclethene
Concen: 1.89 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 96 Resp: 10492

Ion	Ratio	Lower	Upper
96	100		
98	65.1	41.8	81.8
61	143.1	150.1	190.1#

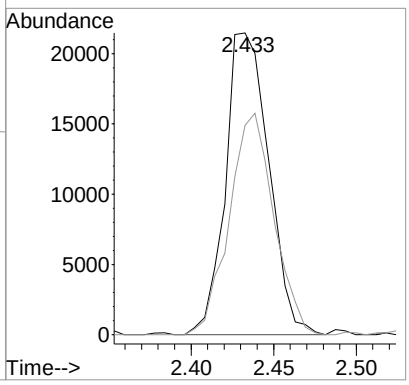


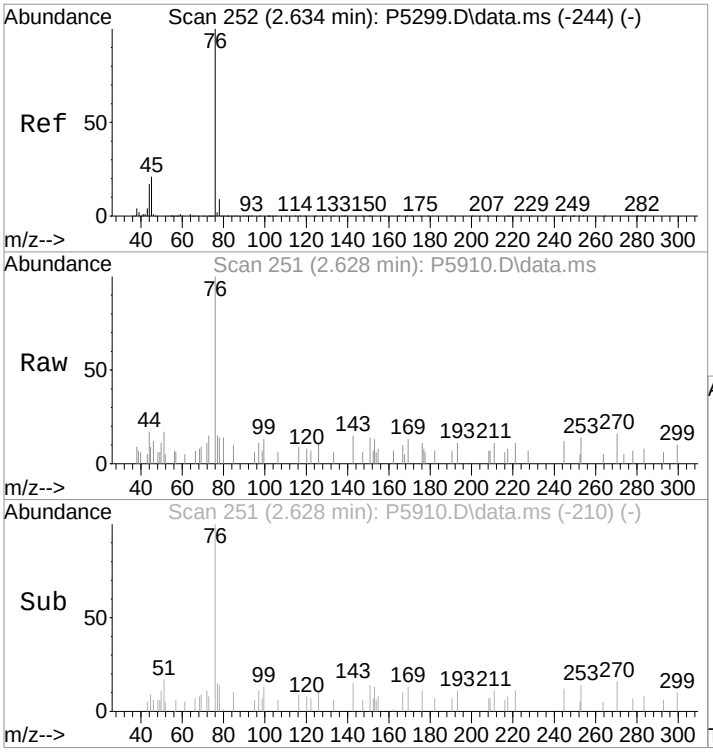


#14
Freon 113
Concen: 6.67 ppb
RT: 2.433 min Scan# 219
Delta R.T. -0.006 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion:101 Resp: 39296

Ion	Ratio	Lower	Upper
101	100		
151	69.3	62.6	102.6

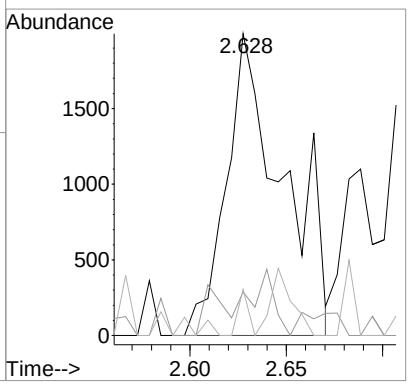


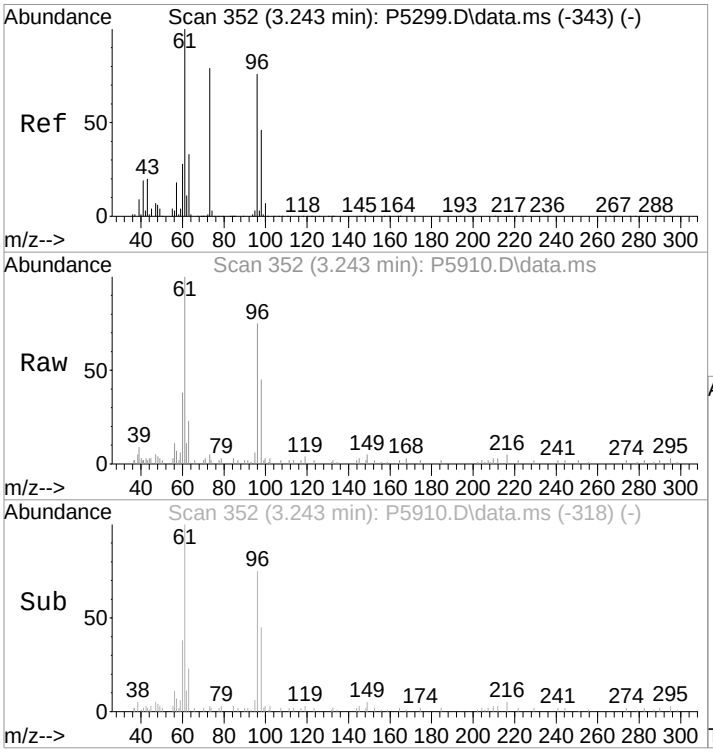


#18
Carbon Disulfide
Concen: 0.23 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 76 Resp: 4098

Ion	Ratio	Lower	Upper
76	100		
78	14.4	0.0	29.3
77	15.3	0.0	22.5

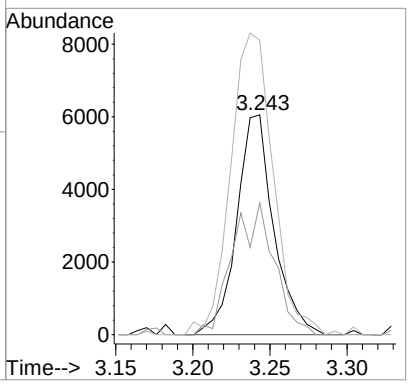


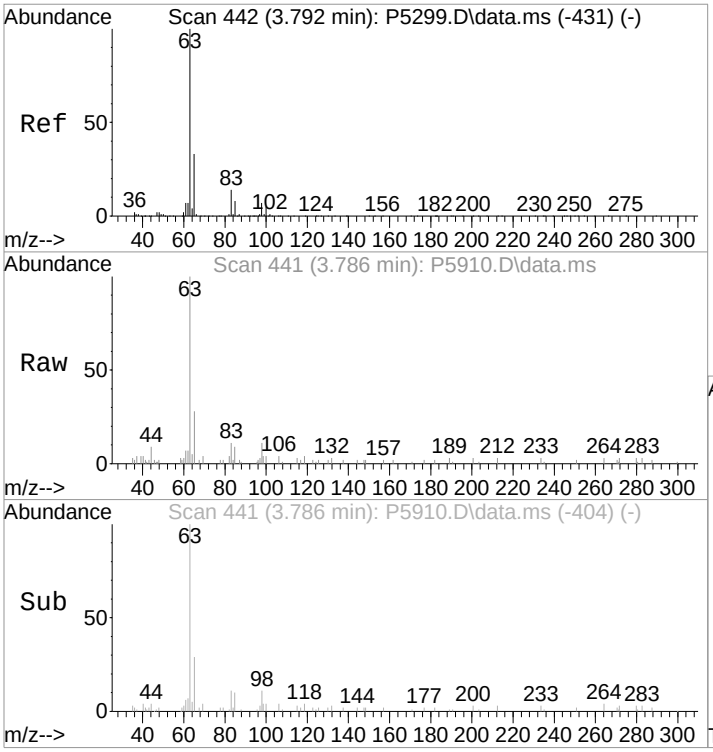


#26
trans-1,2-Dichloroethene
Concen: 1.62 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 96 Resp: 10110

Ion	Ratio	Lower	Upper
96	100		
98	60.0	41.0	81.0
61	134.0	112.4	152.4

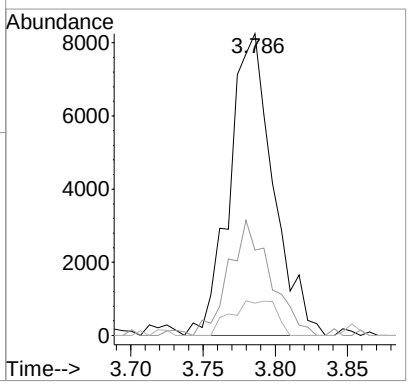


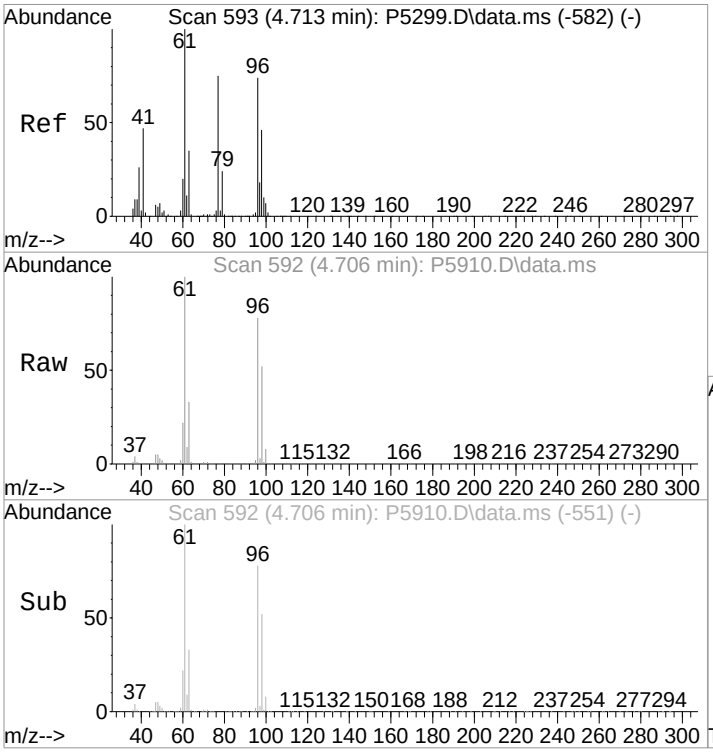


#28
1,1-Diclethane
Concen: 1.67 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 63 Resp: 17285

Ion	Ratio	Lower	Upper
63	100		
65	28.3	12.9	52.9
83	10.7	0.0	33.5

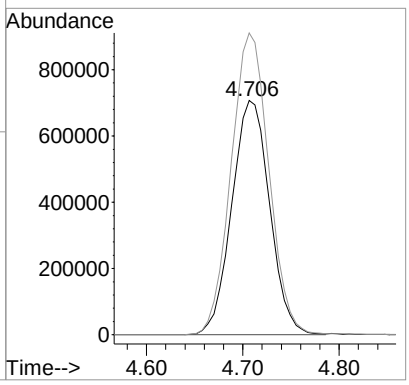


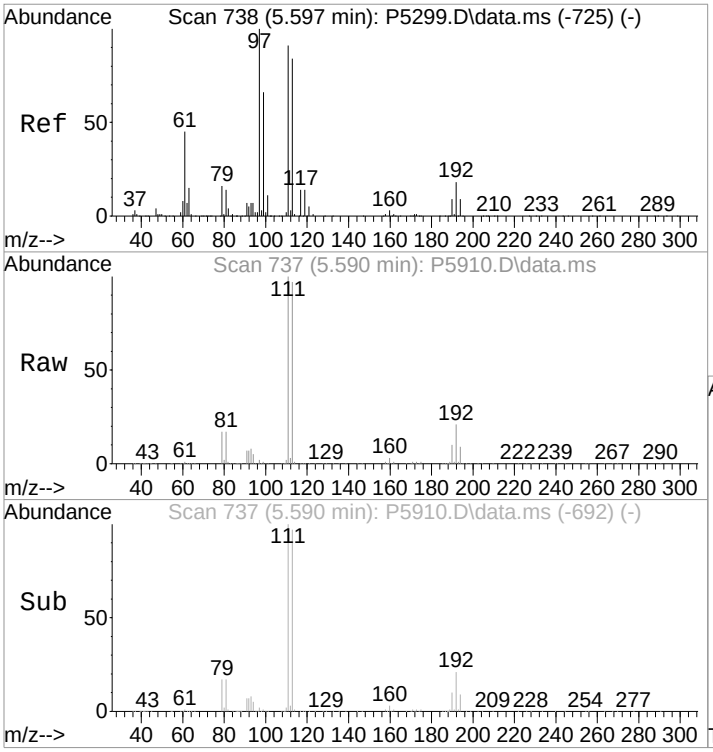


#34
cis-1,2-Dichloroethene
Concen: 303.08 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 96 Resp: 1933216

Ion	Ratio	Lower	Upper
96	100		
61	129.0	114.6	154.6

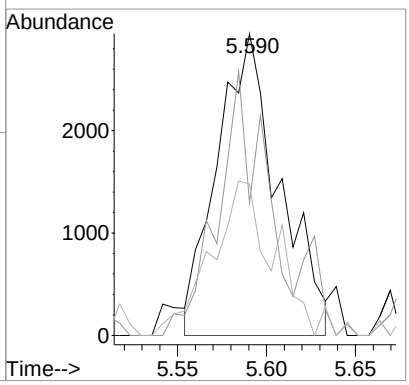


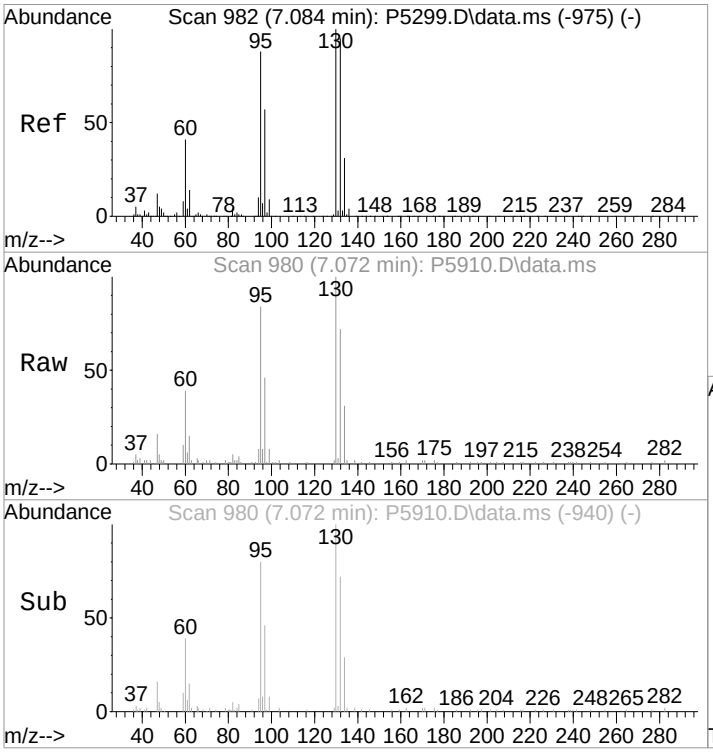


#41
1,1,1-Trichloroethane
Concen: 0.77 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion: 97 Resp: 7158

Ion	Ratio	Lower	Upper
97	100		
99	41.5	46.2	86.2#
61	47.3	25.3	65.3

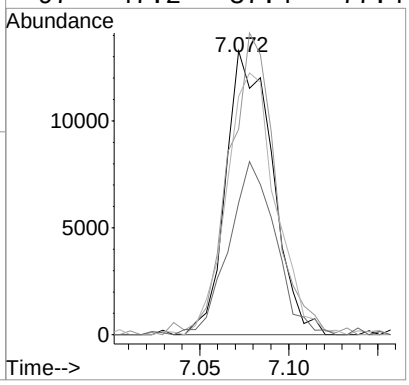




#54
Trichloroethene
Concen: 3.47 ppb
RT: 7.072 min Scan# 980
Delta R.T. -0.006 min
Lab File: P5910.D
Acq: 24 Oct 2016 8:24 pm

Tgt Ion:130 Resp: 24061

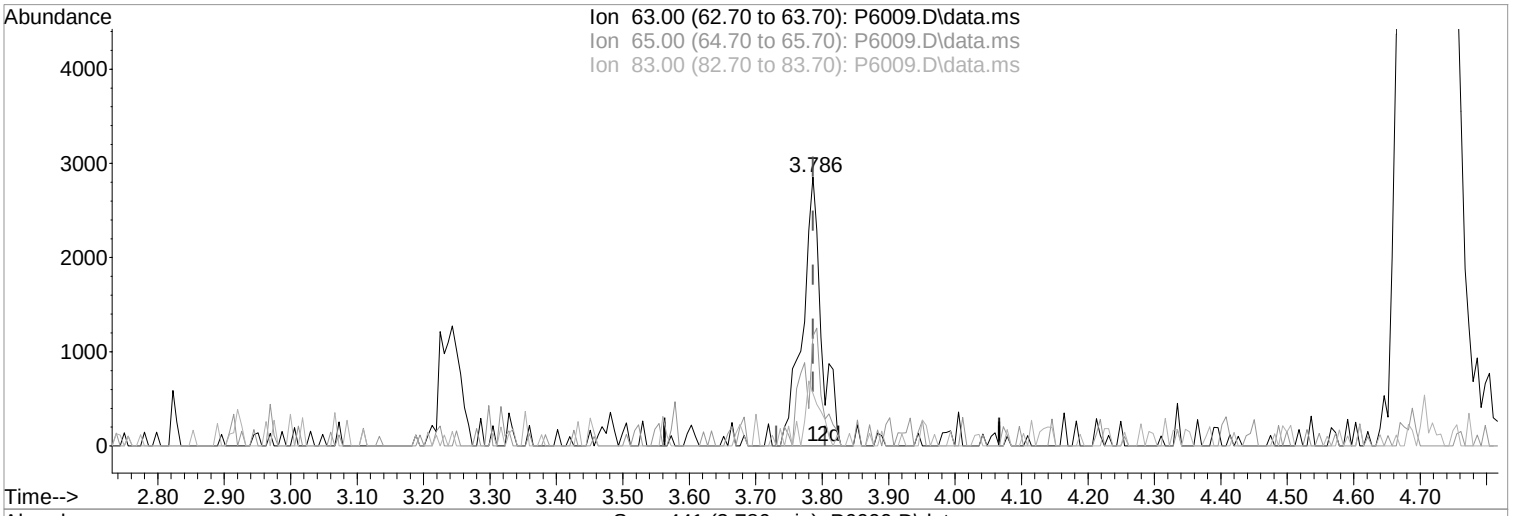
Ion	Ratio	Lower	Upper
130	100		
132	72.3	75.2	115.2#
95	84.0	68.1	108.1
97	47.2	37.4	77.4

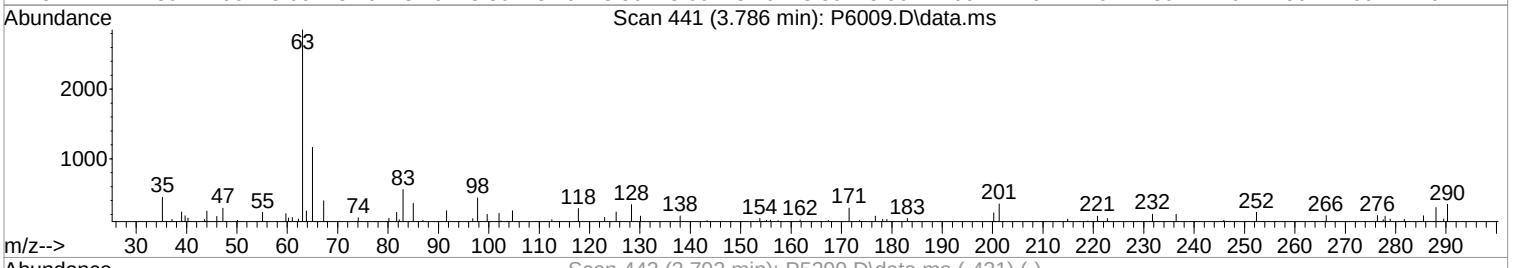


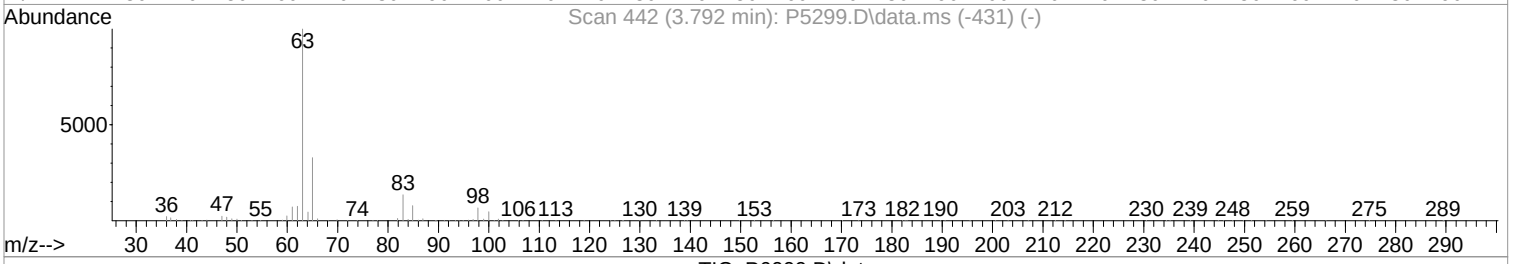
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6009.D
Acq On : 27 Oct 2016 3:51 pm
Operator : K.Ruest
Sample : R1611185-032|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 16:24:56 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6009.D\data.ms

(28) 1,1-Diclethane (P)

3.786min (-0.000) 0.55 ppb m

response 5646

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	40.88
83.00	13.50	19.58
0.00	0.00	0.00

Manual Integration:

After

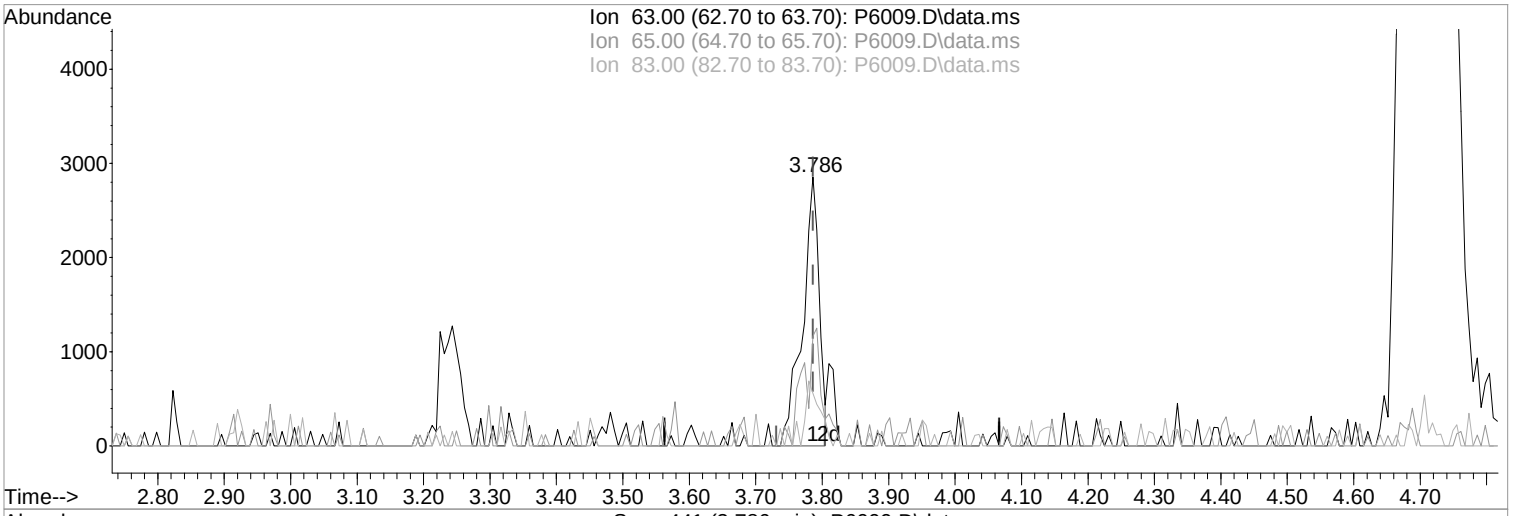
Split Peak

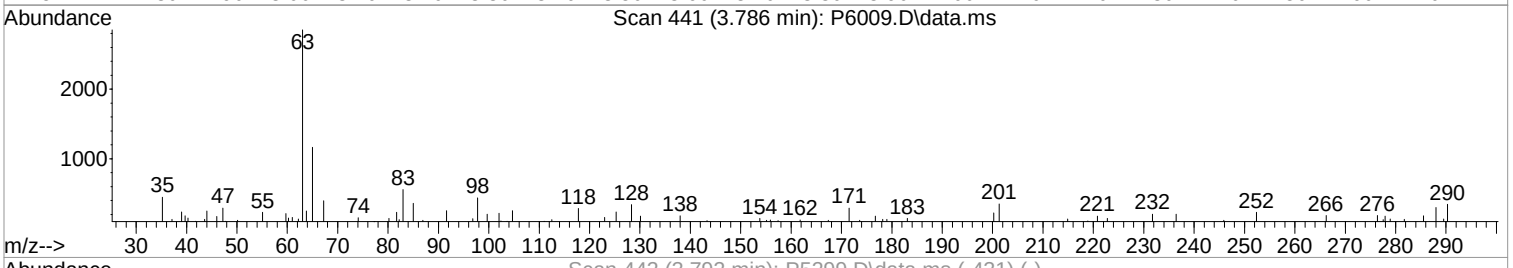
10/27/16

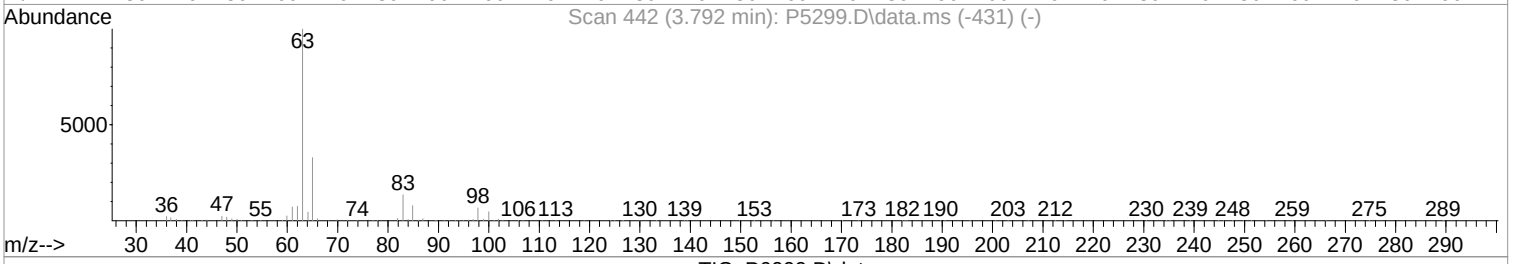
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6009.D
Acq On : 27 Oct 2016 3:51 pm
Operator : K.Ruest
Sample : R1611185-032|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 16:24:56 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6009.D\data.ms

(28) 1,1-Diclethane (P)

3.786min (-0.000) 0.49 ppb

response 4967

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	40.88
83.00	13.50	19.58
0.00	0.00	0.00

Manual Integration:

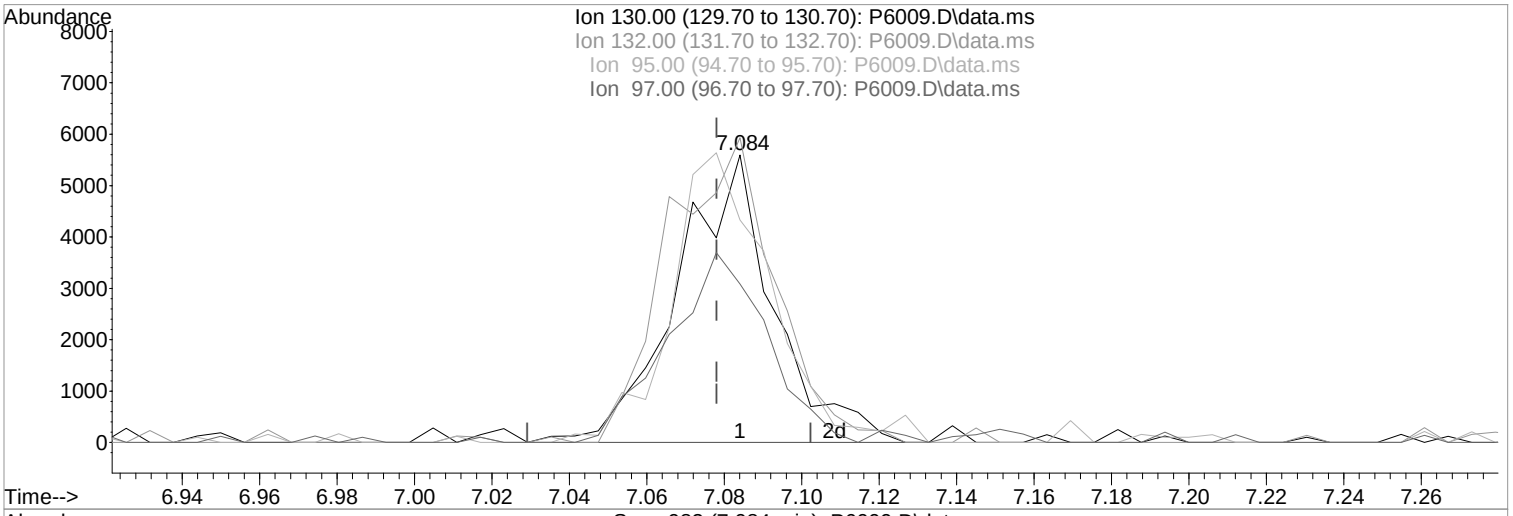
Before

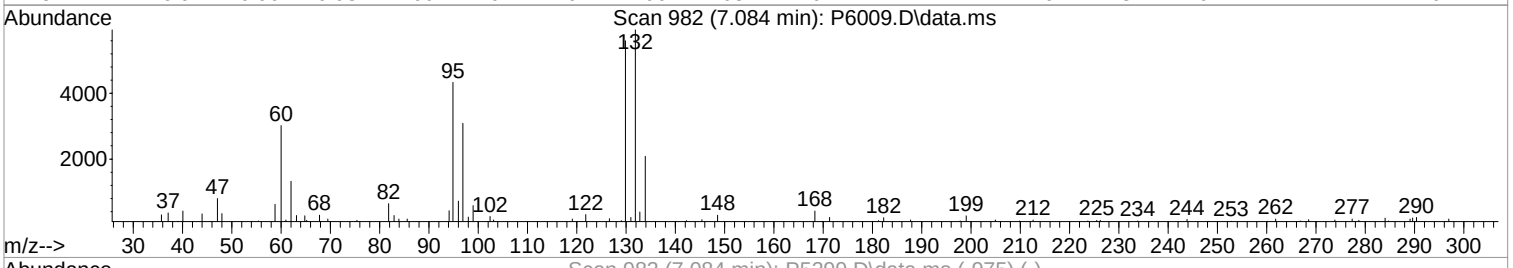
10/27/16

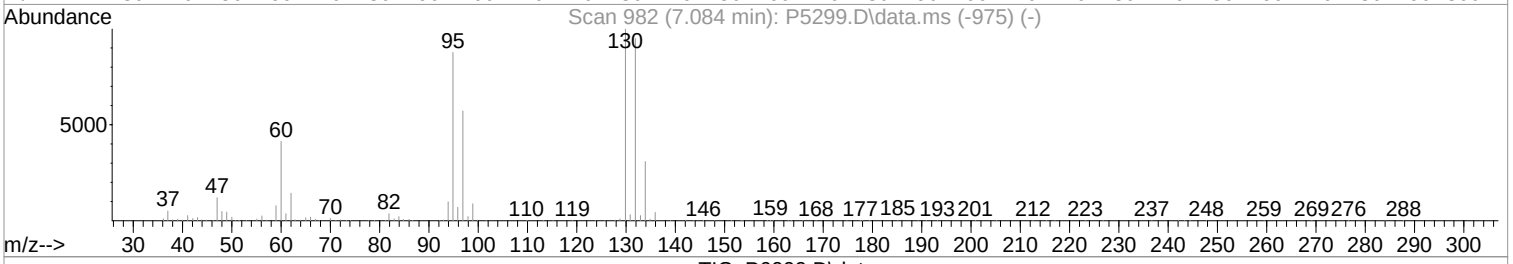
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6009.D
Acq On : 27 Oct 2016 3:51 pm
Operator : K.Ruest
Sample : R1611185-032|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 16:24:56 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6009.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 1.45 ppb m

response 9706

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	106.06
95.00	88.10	77.42
97.00	57.40	55.18

Manual Integration:

After

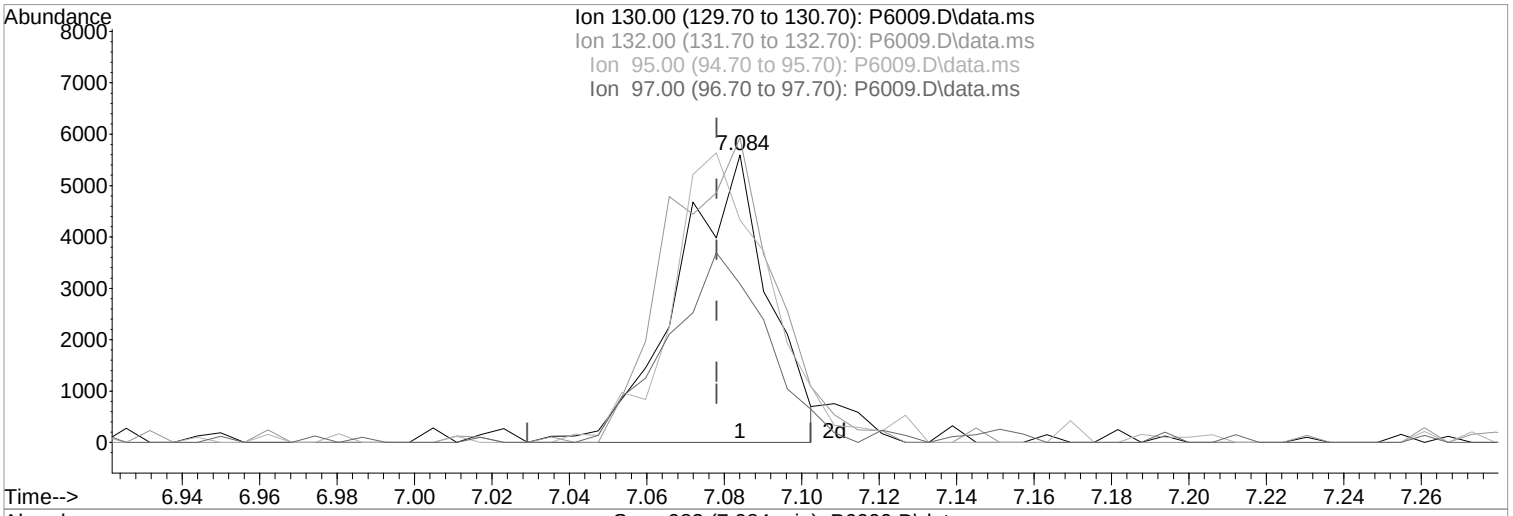
Split Peak

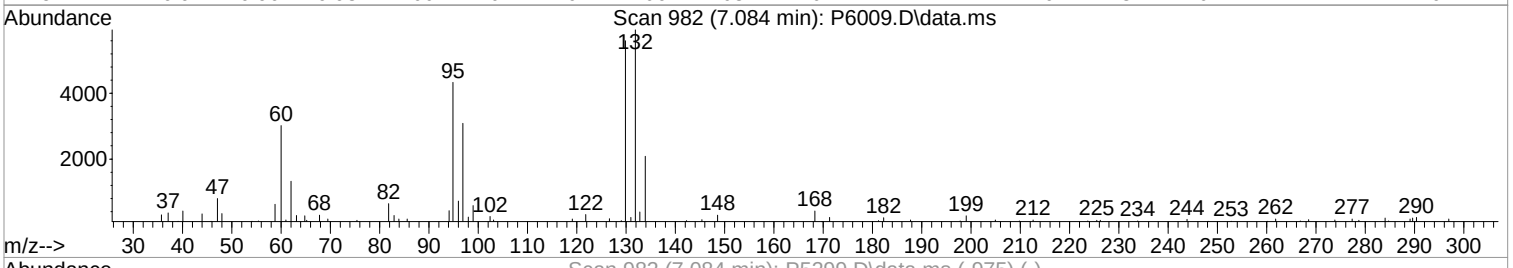
10/27/16

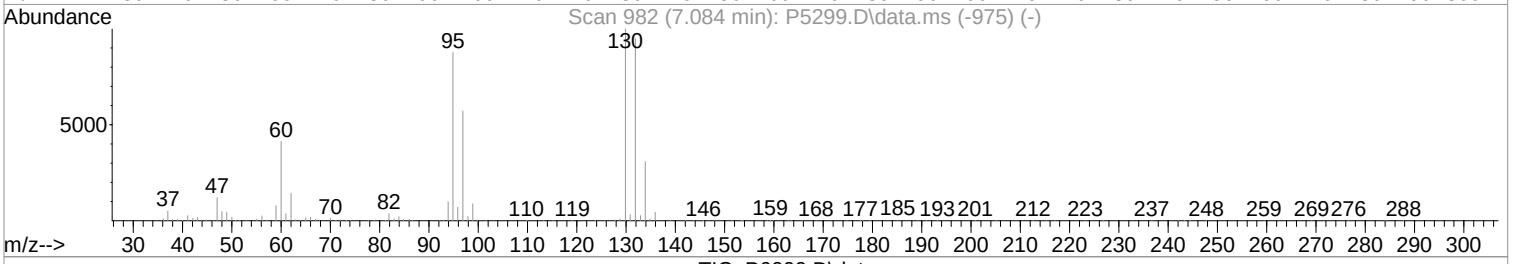
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6009.D
Acq On : 27 Oct 2016 3:51 pm
Operator : K.Ruest
Sample : R1611185-032|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 16:24:56 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6009.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 1.36 ppb

response 9149

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	106.06
95.00	88.10	77.42
97.00	57.40	55.18

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6009.D
Acq On : 27 Oct 2016 3:51 pm
Operator : K.Ruest
Sample : R1611185-032|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 16:28:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

dil

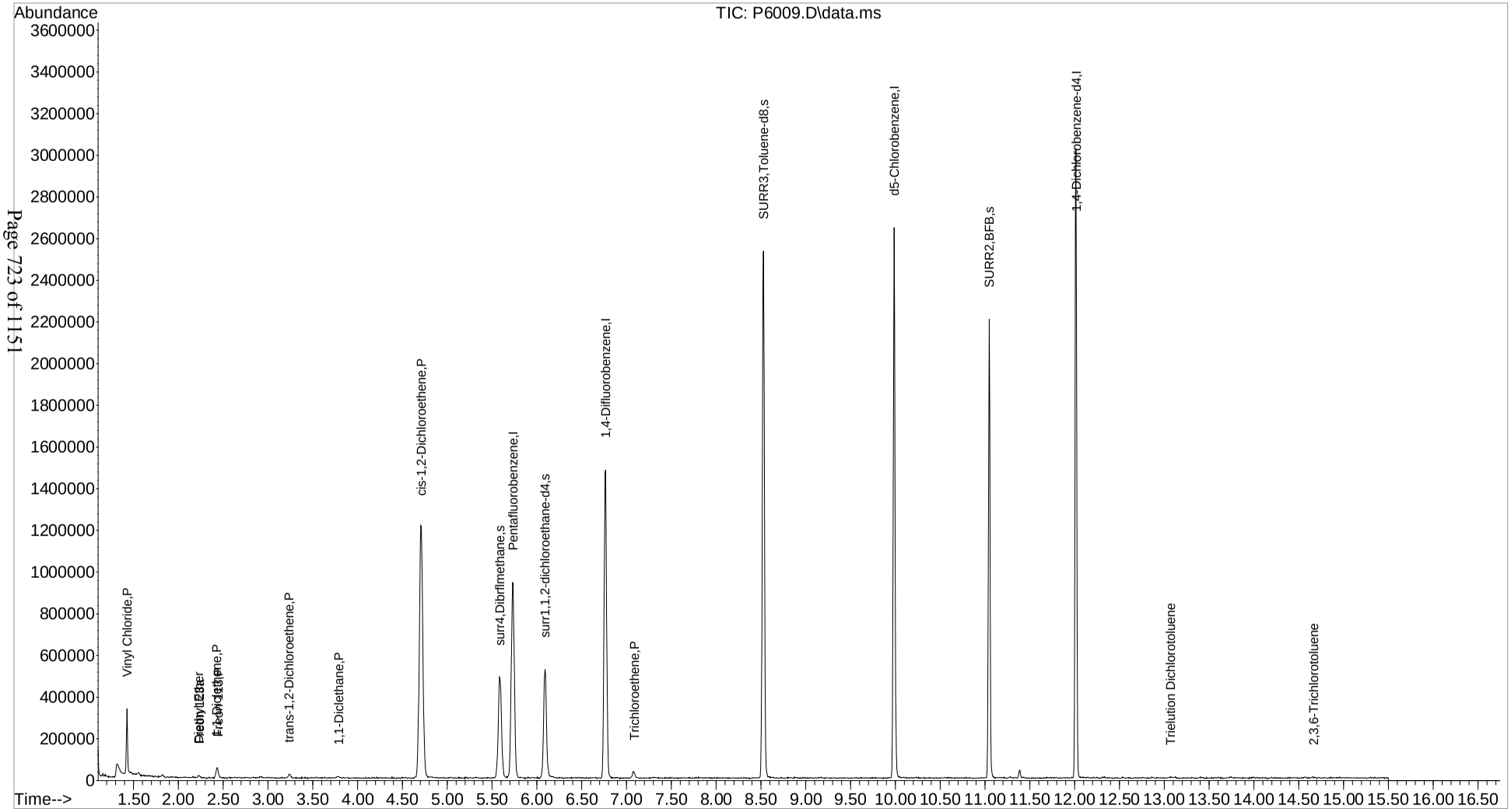
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	785858	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1271569	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1167665	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	604156	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	370343	54.57	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.14%				
48) surr1,1,2-dichloroetha...	6.090	65	418595	54.30	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.60%				
65) SURR3,Toluene-d8	8.529	98	1543537	55.50	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.00%				
70) SURR2,BFB	11.047	95	566783	52.24	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.48%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	168537	27.11	ppb		85
9) Diethyl Ether	2.225	59	959	0.30	ppb	#	70
10) Freon 123a	2.231	67	2263	0.45	ppb	#	76
13) 1,1-Diclethene	2.426	96	4472	0.82	ppb	#	67
14) Freon 113	2.439	101	15221	2.63	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	5791	0.94	ppb		84
28) 1,1-Diclethane	3.786	63	5646m	0.55	ppb		
34) cis-1,2-Dichloroethene	4.713	96	760205	121.23	ppb		94
54) Trichloroethene	7.084	130	9706m	1.45	ppb		
112) Trielution Dichlorotol...	13.065	125	2579	0.22	ppb	#	51
120) 2,3,6-Trichlorotoluene	14.662	159	1156	0.22	ppb	#	71

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

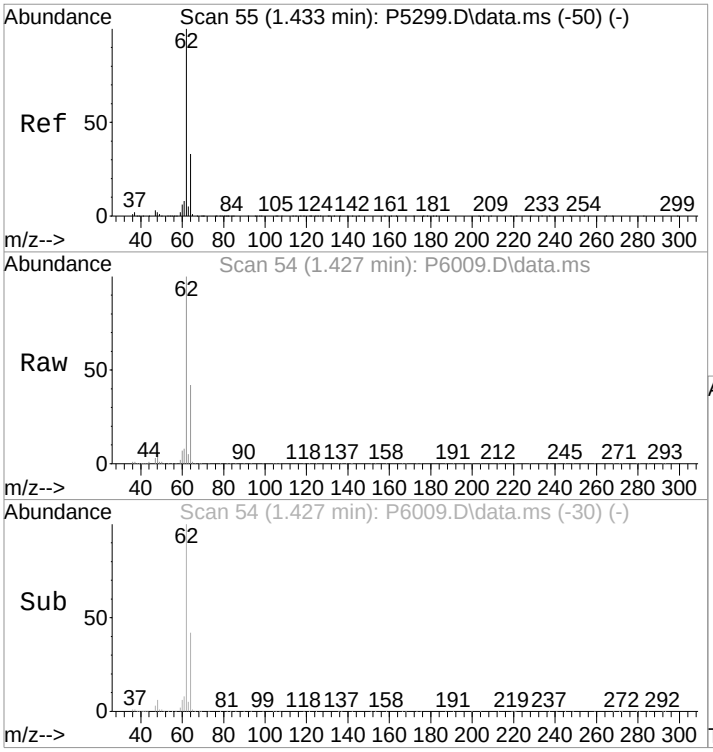
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6009.D
Acq On : 27 Oct 2016 3:51 pm
Operator : K.Ruest
Sample : R1611185-032|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 16:28:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



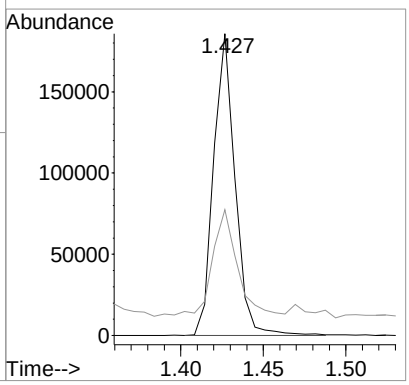
1st 10/27/16
2nd 10/31/16

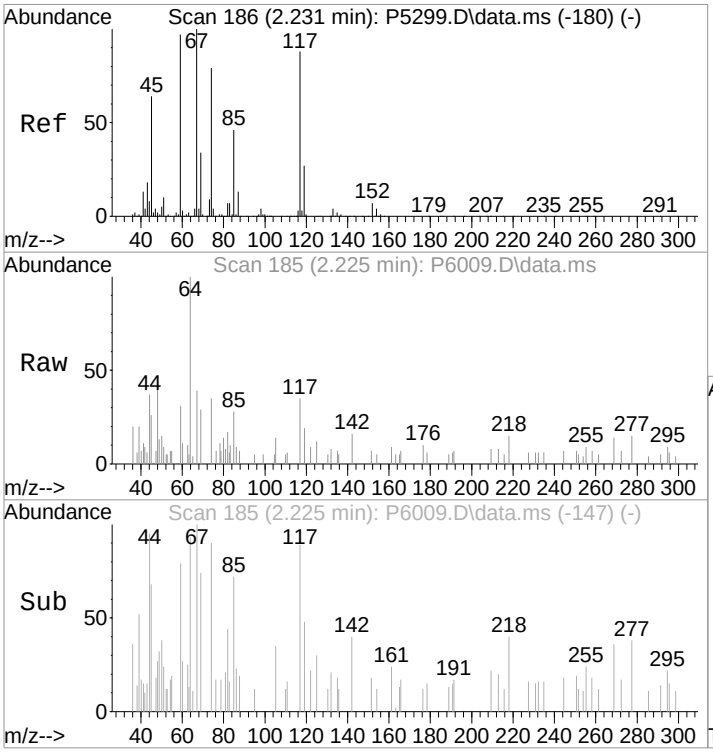


#4
Vinyl Chloride
Concen: 27.11 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 62 Resp: 168537

Ion	Ratio	Lower	Upper
62	100		
64	41.7	13.1	53.1

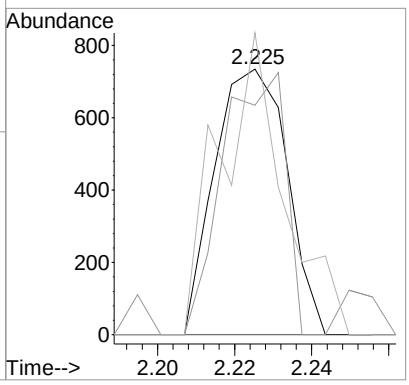


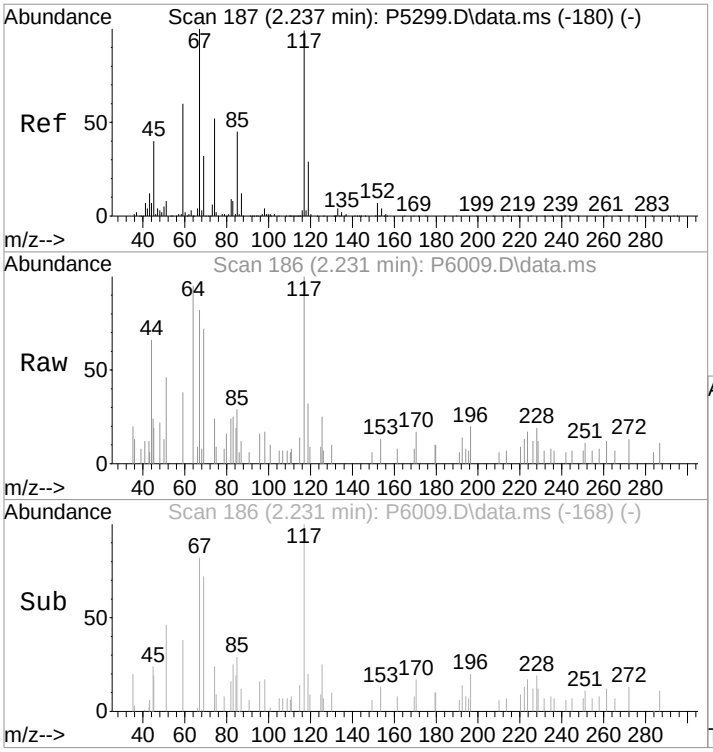


#9
Diethyl Ether
Concen: 0.30 ppb
RT: 2.225 min Scan# 185
Delta R.T. -0.000 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 59 Resp: 959

Ion	Ratio	Lower	Upper
59	100		
45	86.4	47.0	87.0
74	113.6	61.8	101.8#

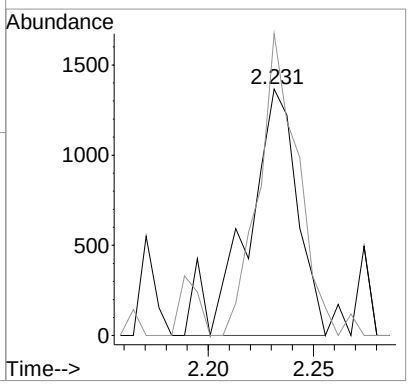


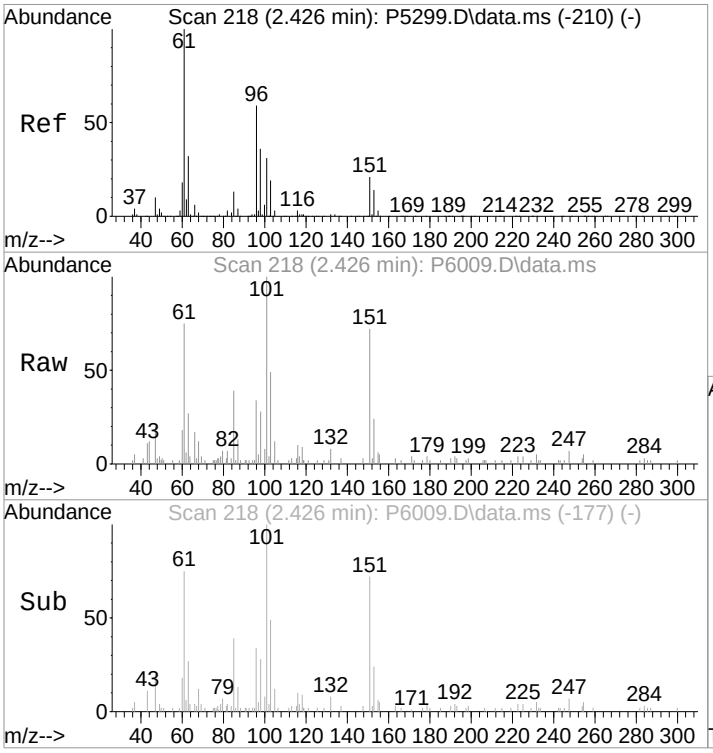


#10
Freon 123a
Concen: 0.45 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 67 Resp: 2263

Ion	Ratio	Lower	Upper
67	100		
117	122.5	78.8	118.8#

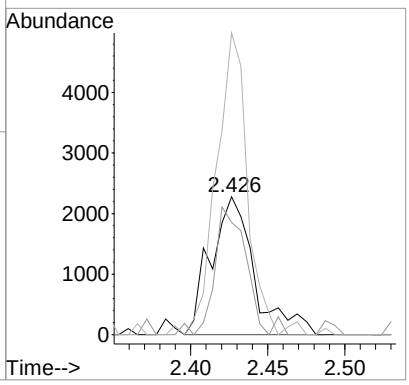


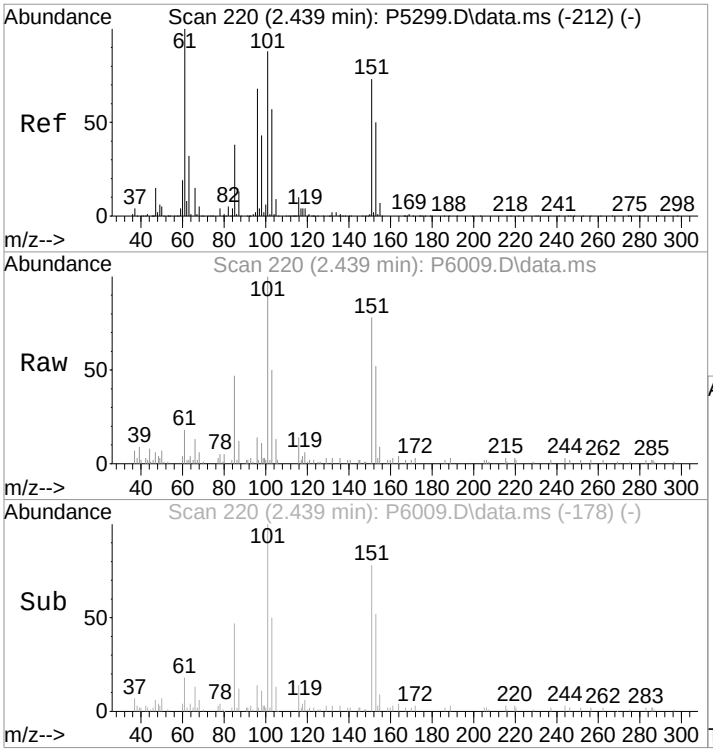


#13
1,1-Diclethene
Concen: 0.82 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 96 Resp: 4472

Ion	Ratio	Lower	Upper
96	100		
98	81.3	41.8	81.8
61	218.8	150.1	190.1#

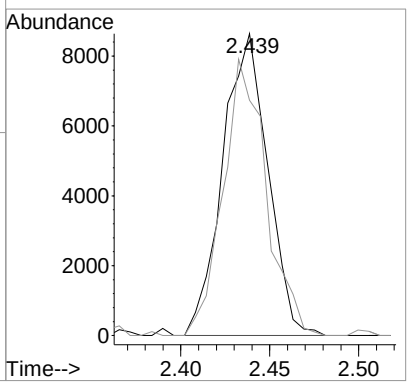


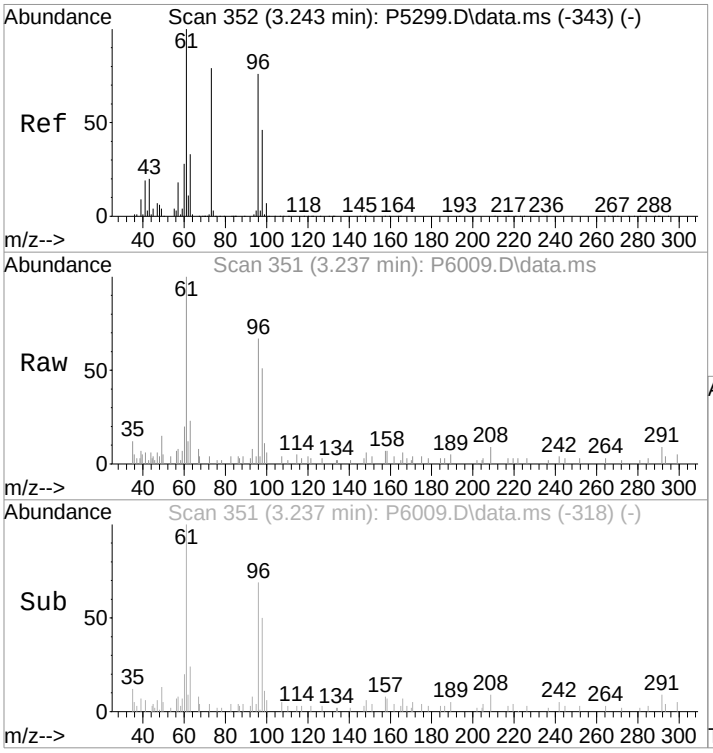


#14
Freon 113
Concen: 2.63 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion:101 Resp: 15221

Ion	Ratio	Lower	Upper
101	100		
151	77.9	62.6	102.6

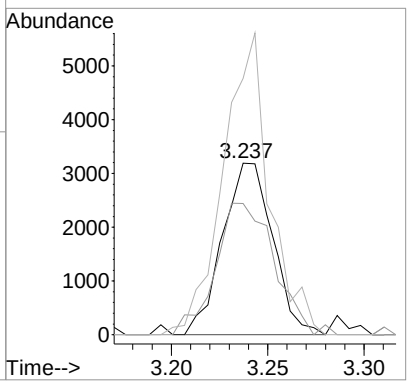


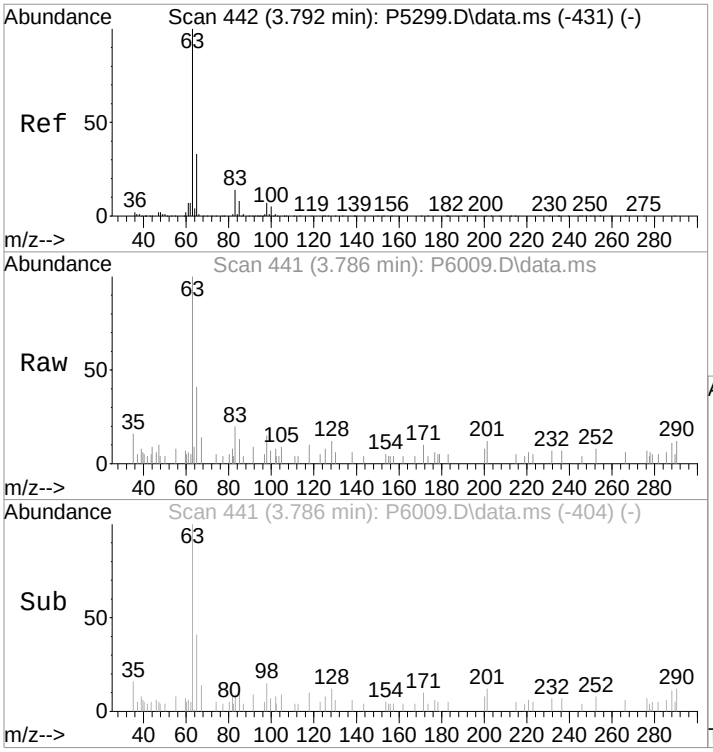


#26
trans-1,2-Dichloroethene
Concen: 0.94 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 96 Resp: 5791

Ion	Ratio	Lower	Upper
96	100		
98	76.5	41.0	81.0
61	149.4	112.4	152.4

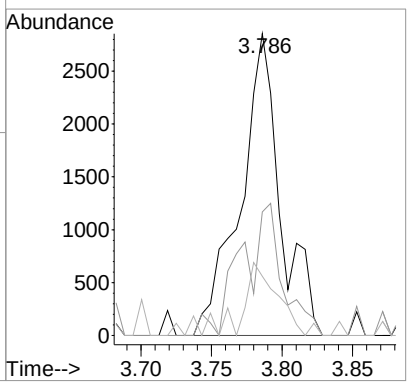


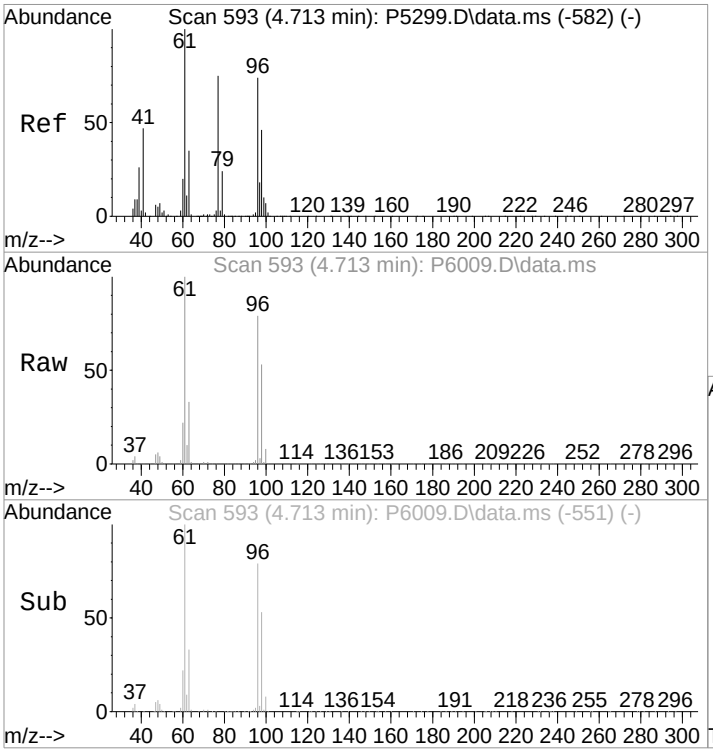


#28
1,1-Diclethane
Concen: 0.55 ppb m
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 63 Resp: 5646

Ion	Ratio	Lower	Upper
63	100		
65	40.9	12.9	52.9
83	19.6	0.0	33.5

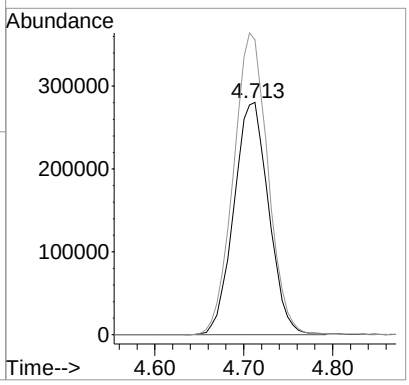


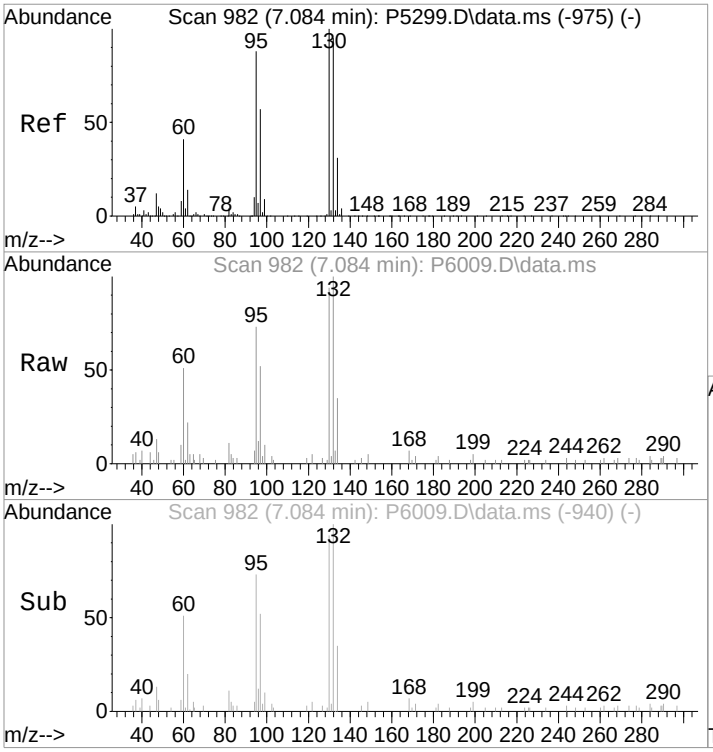


#34
cis-1,2-Dichloroethene
Concen: 121.23 ppb
RT: 4.713 min Scan# 593
Delta R.T. -0.000 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion: 96 Resp: 760205

Ion	Ratio	Lower	Upper
96	100		
61	127.0	114.6	154.6

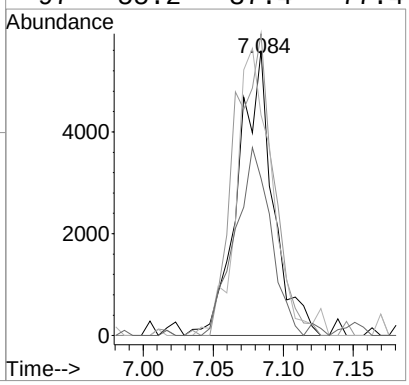


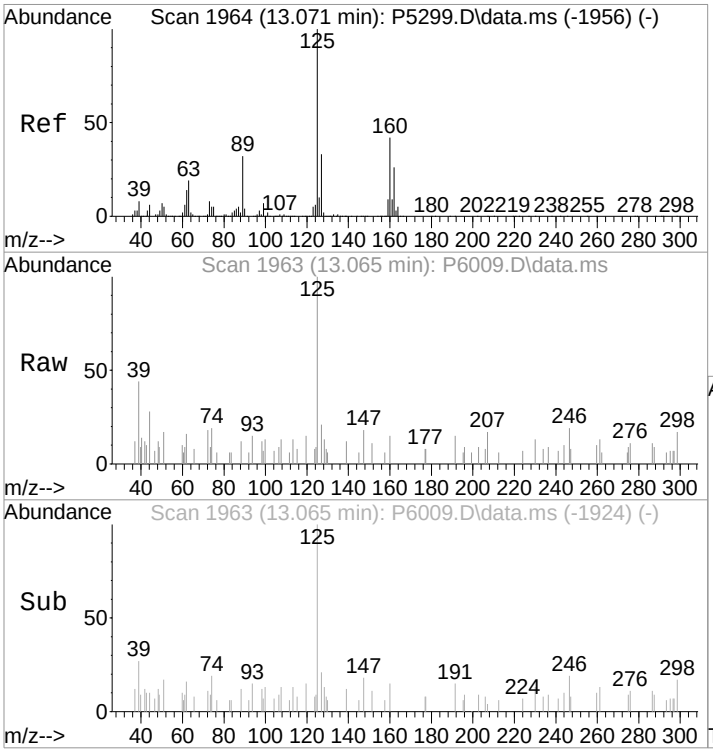


#54
Trichloroethene
Concen: 1.45 ppb m
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion:130 Resp: 9706

Ion	Ratio	Lower	Upper
130	100		
132	106.1	75.2	115.2
95	77.4	68.1	108.1
97	55.2	37.4	77.4

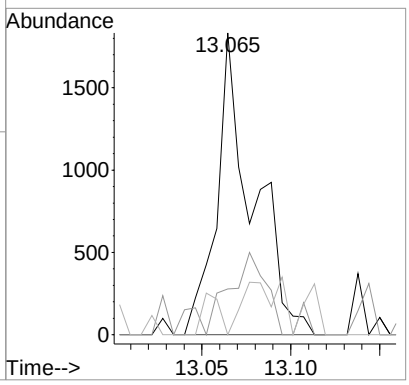


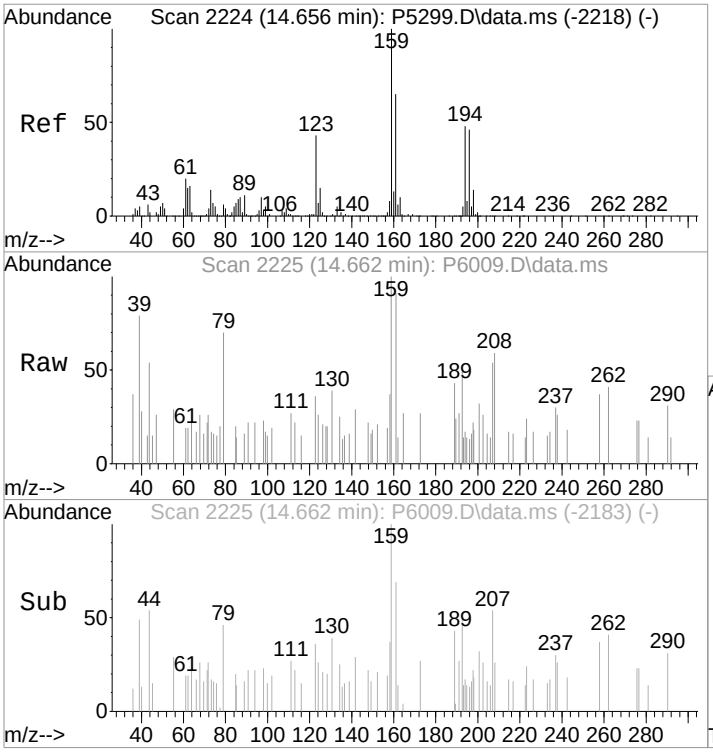


#112
Trielution Dichlorotoluene
Concen: 0.22 ppb
RT: 13.065 min Scan# 1963
Delta R.T. -0.012 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion:125 Resp: 2579

Ion	Ratio	Lower	Upper
125	100		
160	15.2	33.6	50.4#
89	0.0	25.8	38.8#

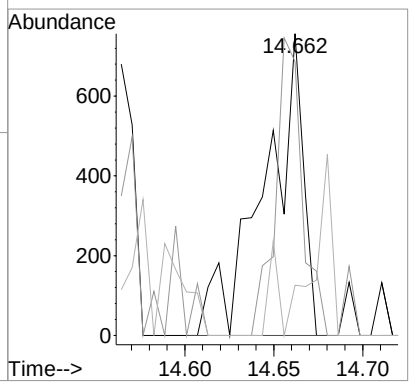




#120
2,3,6-Trichlorotoluene
Concen: 0.22 ppb
RT: 14.662 min Scan# 2225
Delta R.T. 0.006 min
Lab File: P6009.D
Acq: 27 Oct 2016 3:51 pm

Tgt Ion:159 Resp: 1156

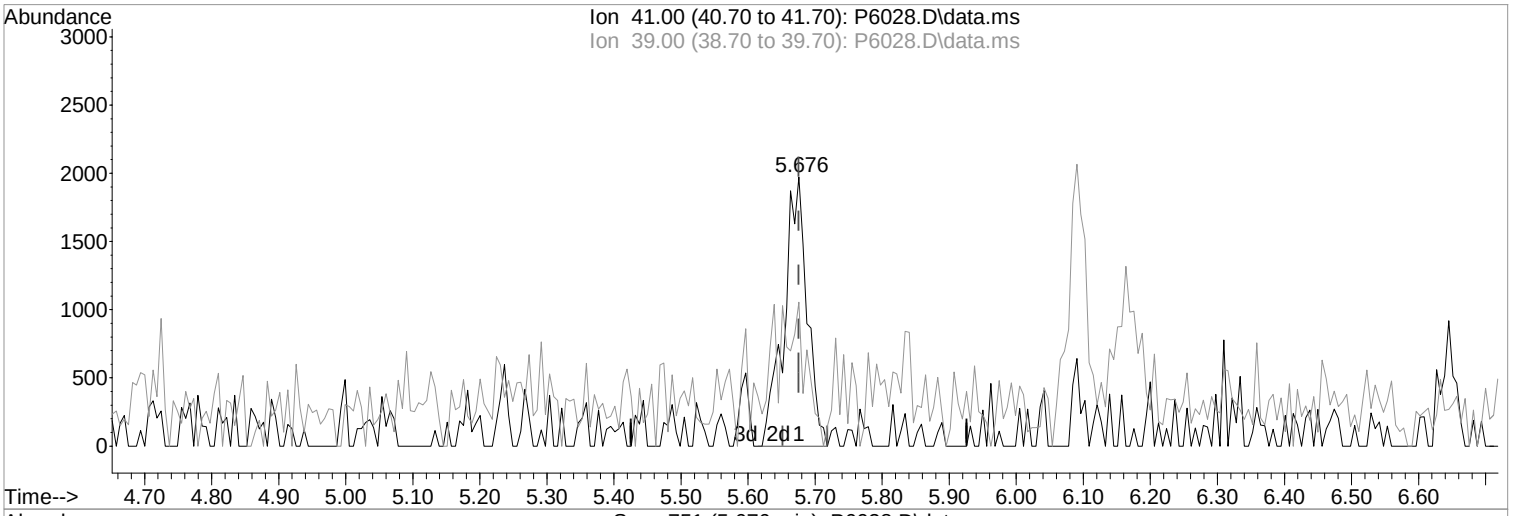
Ion	Ratio	Lower	Upper
159	100		
161	90.8	52.3	78.5#
194	30.6	38.6	57.8#

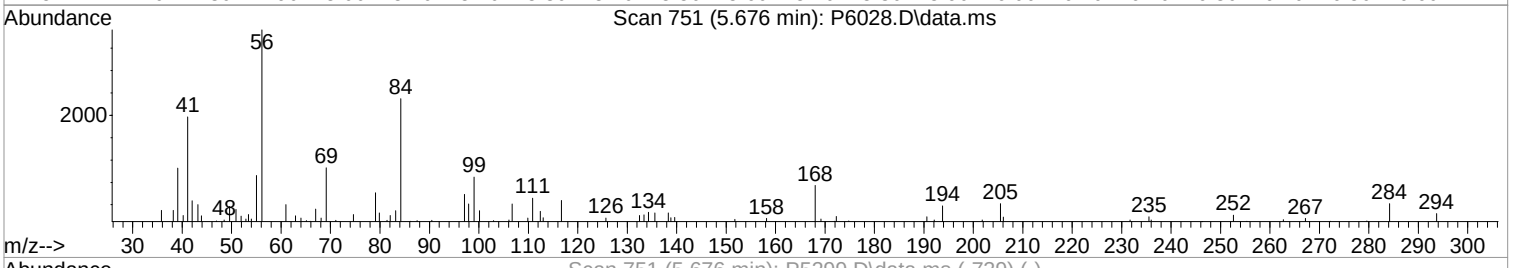


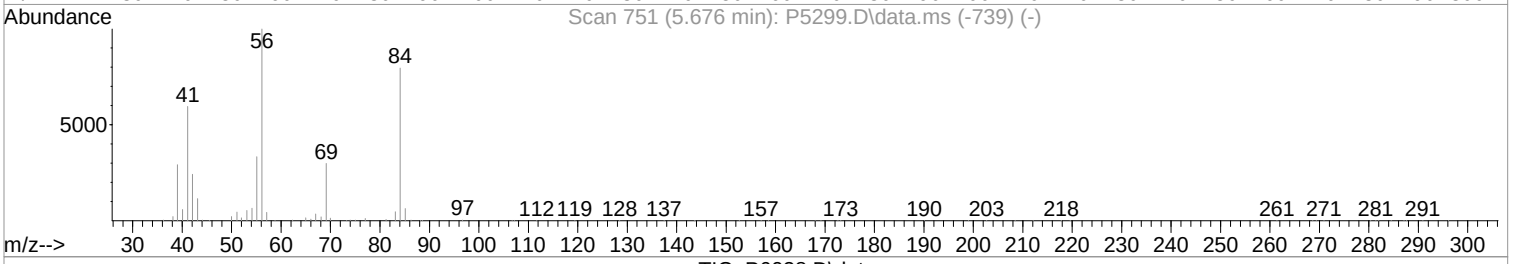
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6028.D
Acq On : 28 Oct 2016 1:23 am
Operator : K.Ruest
Sample : R1611185-033|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 28 09:05:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6028.D\data.ms

(44) Cyclohexane (P)

5.676min (-0.000) 0.69 ppb m

response 4703

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	53.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

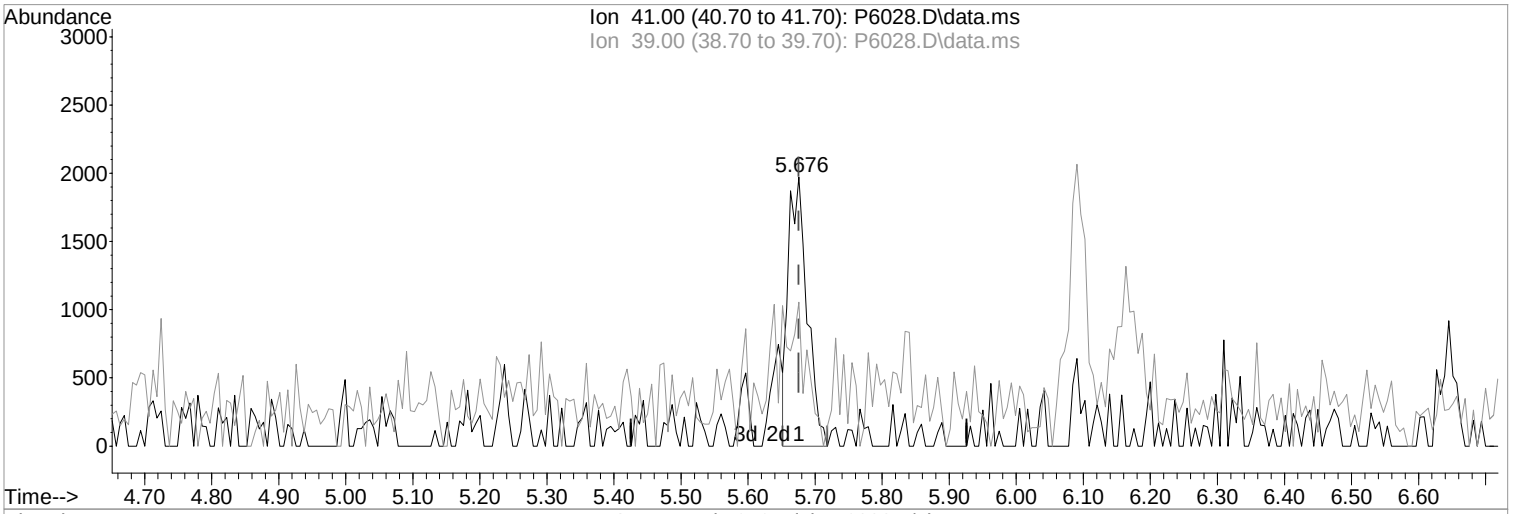
Split Peak

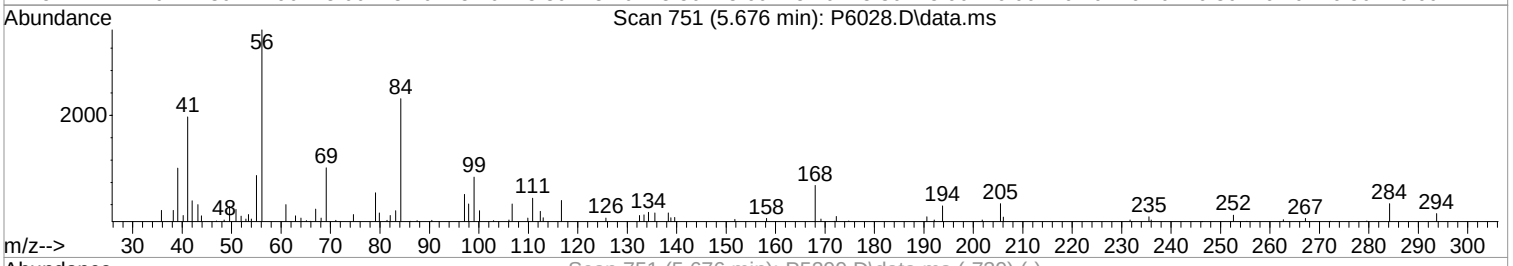
10/31/16

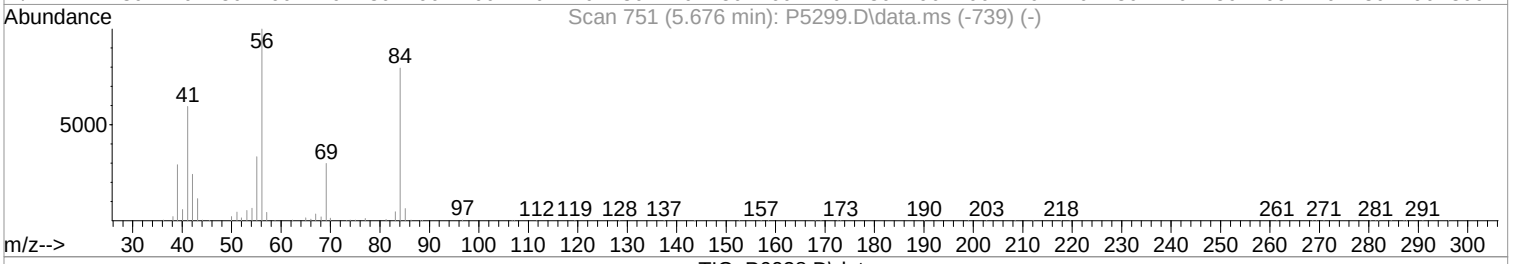
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6028.D
Acq On : 28 Oct 2016 1:23 am
Operator : K.Ruest
Sample : R1611185-033|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 28 09:05:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6028.D\data.ms

(44) Cyclohexane (P)

5.676min (-0.000) 0.56 ppb

response 3821

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	53.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6028.D
Acq On : 28 Oct 2016 1:23 am
Operator : K.Ruest
Sample : R1611185-033|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 31 11:40:32 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

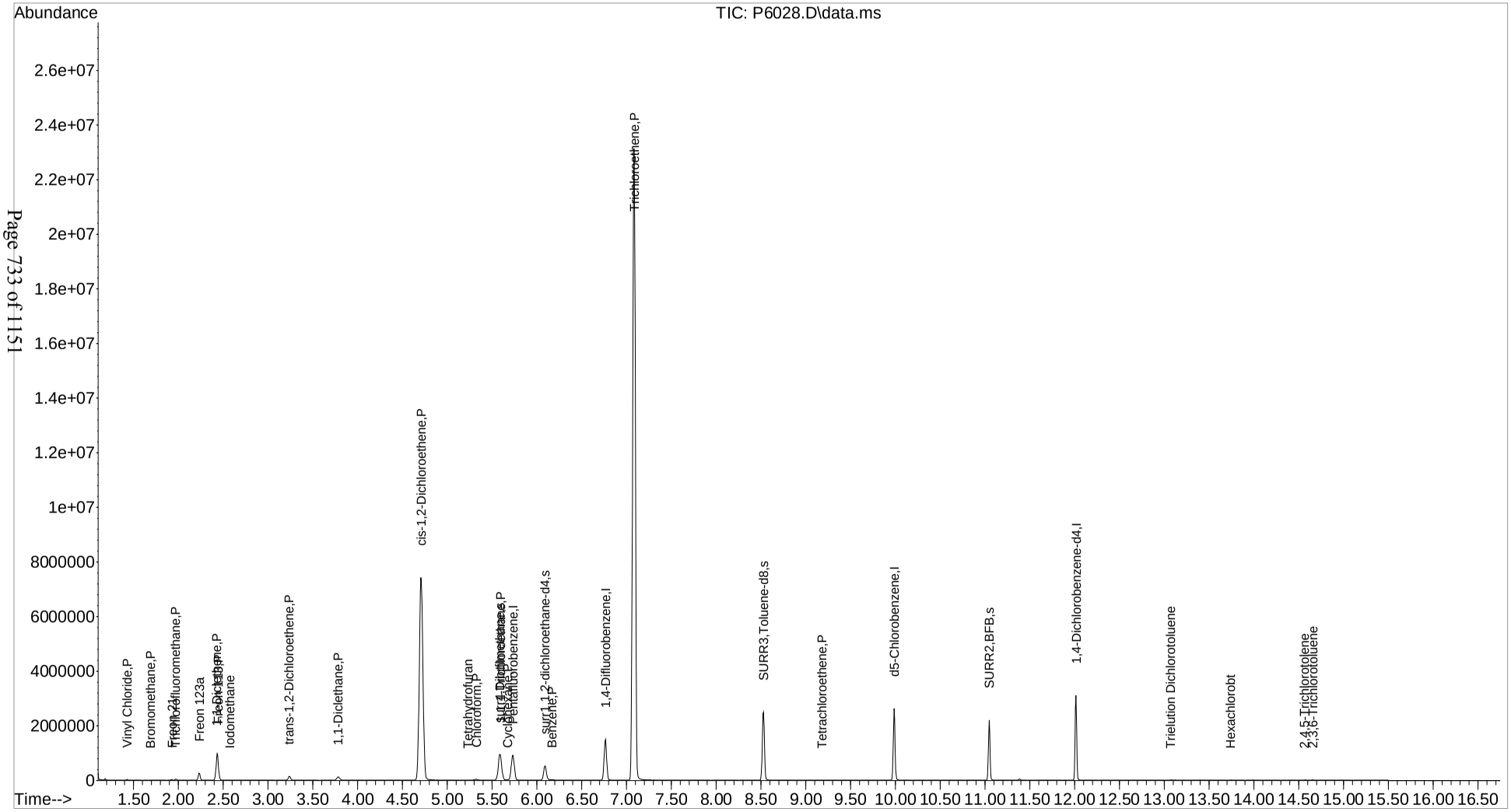
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	780128	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1279728	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1161698	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	604045	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	376732	55.16	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.32%				
48) surr1,1,2-dichloroetha...	6.090	65	410832	52.95	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.90%				
65) SURR3,Toluene-d8	8.529	98	1559189	55.71	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.42%				
70) SURR2,BFB	11.047	95	572980	52.48	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.96%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	15477	2.51	ppb		99
5) Bromomethane	1.689	94	2894	0.45	ppb	#	54
7) Freon 21	1.926	67	12247	1.50	ppb		98
8) Trichlorofluoromethane	1.969	101	20711	2.90	ppb		96
10) Freon 123a	2.231	67	99551	20.03	ppb		89
13) 1,1-Diclethene	2.426	96	64221	11.84	ppb		94
14) Freon 113	2.438	101	319414	55.53	ppb		97
17) Iodomethane	2.573	142	2744	0.38	ppb		85
26) trans-1,2-Dichloroethene	3.237	96	52320	8.58	ppb	#	83
28) 1,1-Diclethane	3.780	63	135646	13.39	ppb		92
34) cis-1,2-Dichloroethene	4.706	96	4949489	795.06	ppb		87 E-Over Calibration
39) Tetrahydrofuran	5.231	42	1754	1.34	ppb		94
40) Chloroform	5.322	83	29229	2.96	ppb		95
41) 1,1,1-Trichloroethane	5.590	97	398883	43.86	ppb		98
44) Cyclohexane	5.676	41	4703m	0.69	ppb		
49) Benzene	6.169	78	20313	0.85	ppb		91
54) Trichloroethene	7.084	130	8992797	1330.88	ppb		93
72) Tetrachloroethene	9.181	164	1463	0.28	ppb	#	79
112) Trielution Dichlorotol...	13.071	125	3554	0.30	ppb		98
116) Hexachlorobt	13.741	225	848	0.21	ppb		82
119) 2,4,5-Trichlorotolene	14.564	159	1750	0.31	ppb	#	72
120) 2,3,6-Trichlorotoluene	14.656	159	2401	0.46	ppb	#	79

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

Quantitation Report (QT Reviewed)

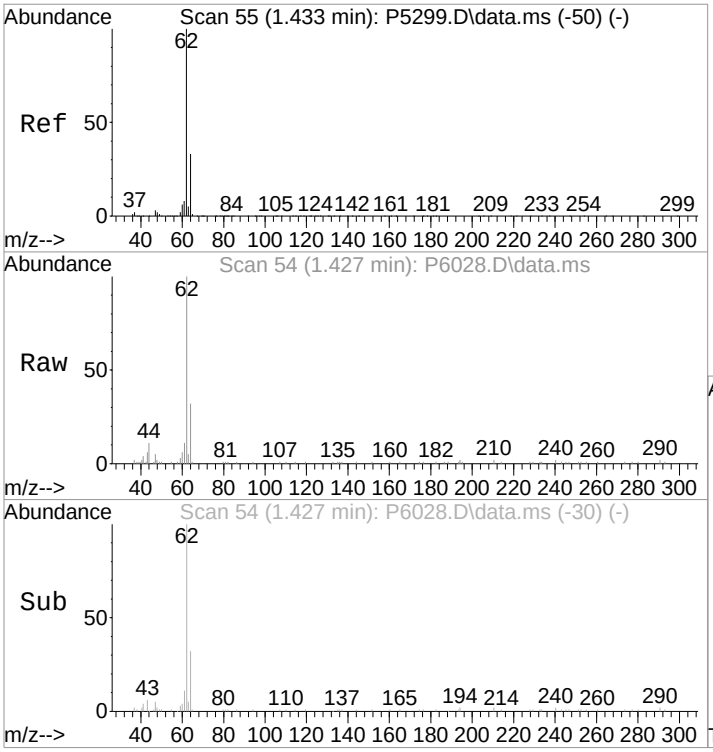
Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6028.D
Acq On : 28 Oct 2016 1:23 am
Operator : K.Ruest
Sample : R1611185-033|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 31 11:40:32 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Page 733 of 1151

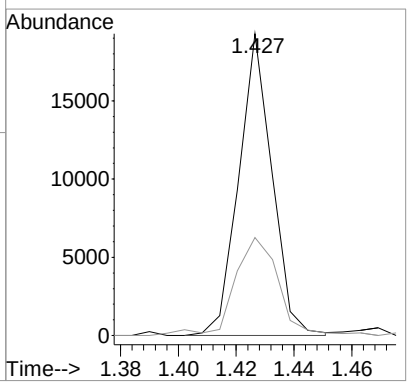
1st 10/31/16
2nd 10/31/16

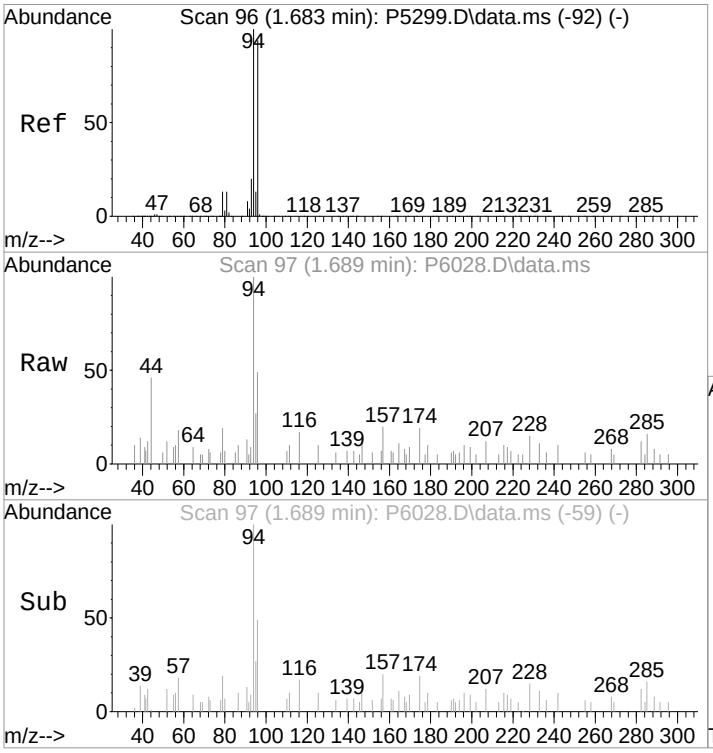


#4
Vinyl Chloride
Concen: 2.51 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 62 Resp: 15477

Ion	Ratio	Lower	Upper
62	100		
64	32.5	13.1	53.1

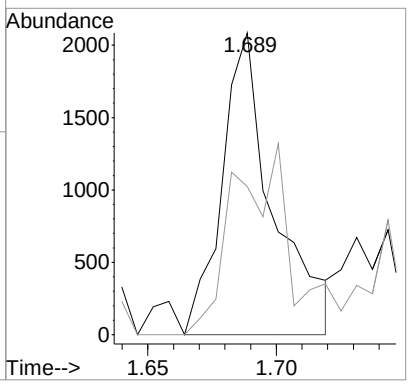


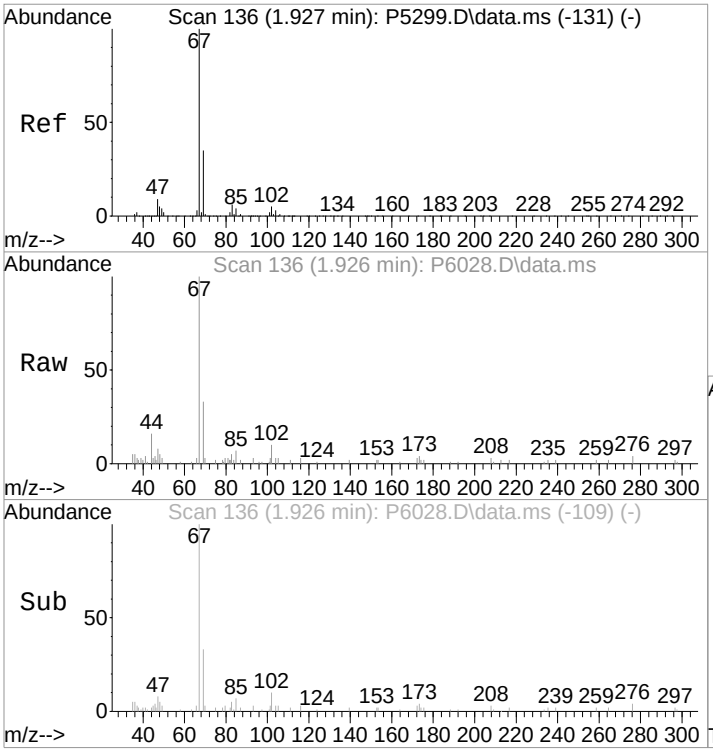


#5
Bromomethane
Concen: 0.45 ppb
RT: 1.689 min Scan# 97
Delta R.T. 0.007 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 94 Resp: 2894

Ion	Ratio	Lower	Upper
94	100		
96	49.0	73.8	113.8#

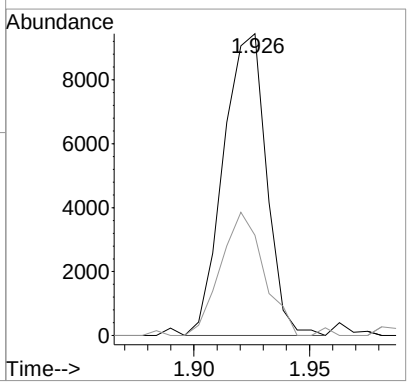


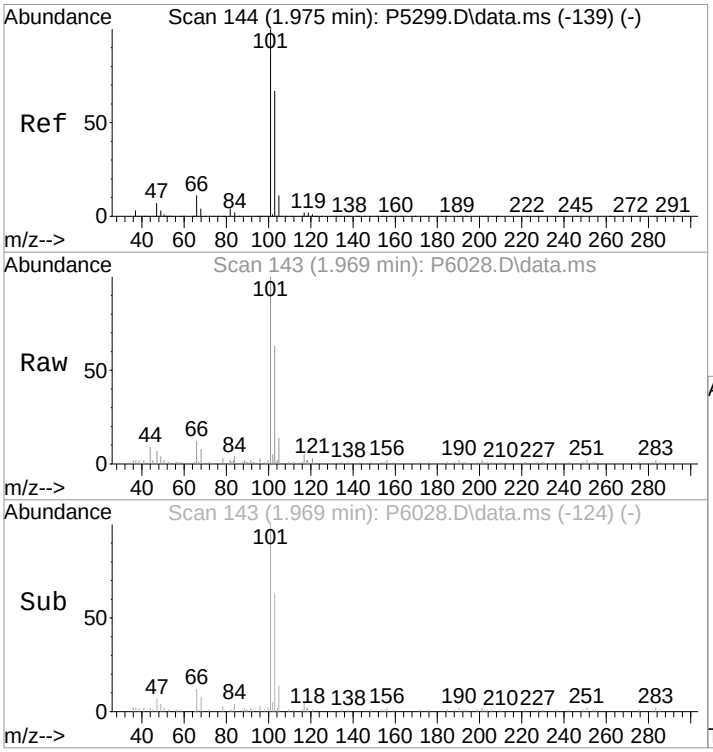


#7
Freon 21
Concen: 1.50 ppb
RT: 1.926 min Scan# 136
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 67 Resp: 12247

Ion	Ratio	Lower	Upper
67	100		
69	33.2	14.4	54.4

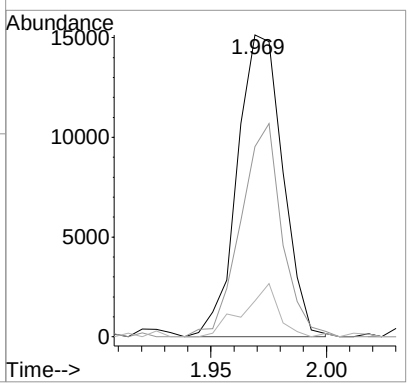


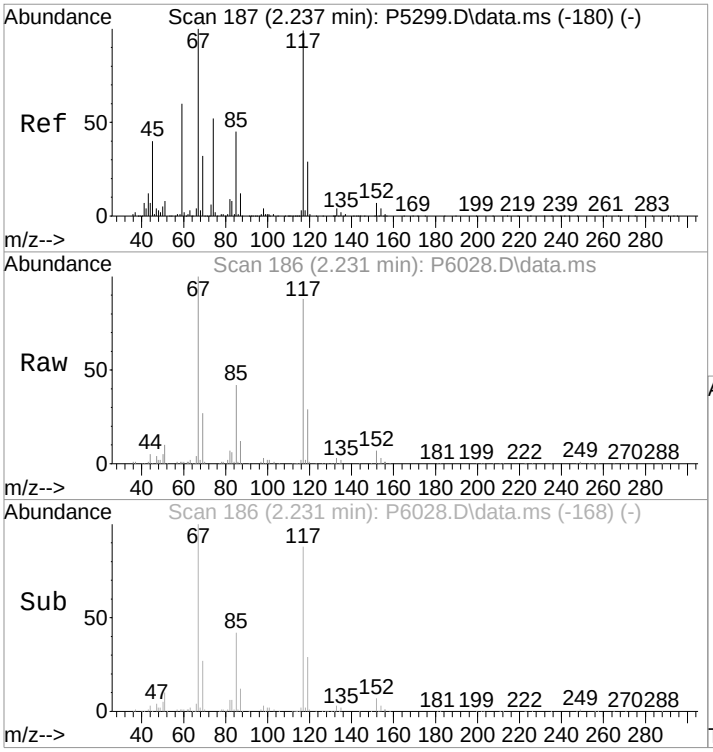


#8
Trichlorofluoromethane
Concen: 2.90 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:101 Resp: 20711

Ion	Ratio	Lower	Upper
101	100		
103	64.0	47.3	87.3
66	11.9	0.0	31.5

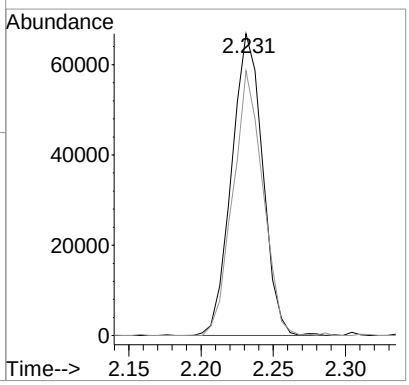


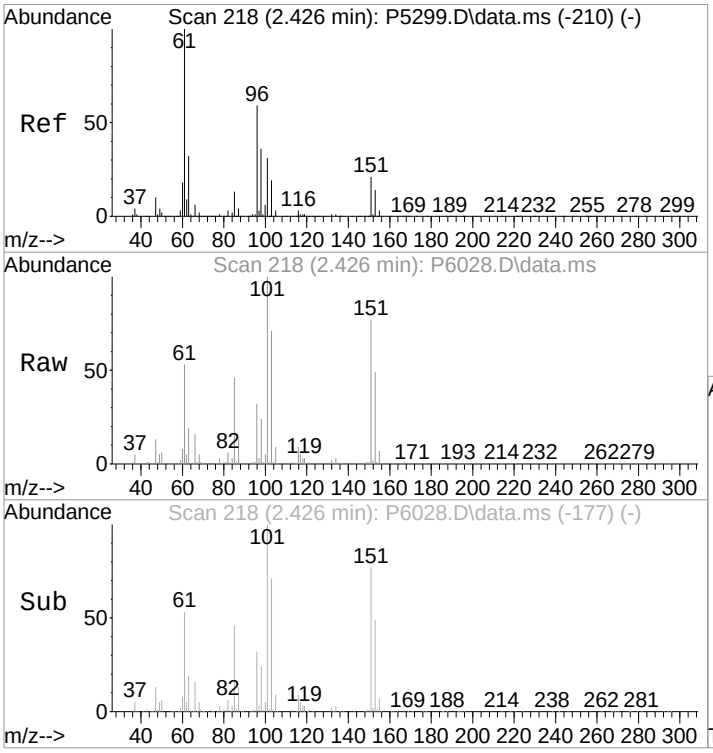


#10
Freon 123a
Concen: 20.03 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 67 Resp: 99551

Ion	Ratio	Lower	Upper
67	100		
117	87.6	78.8	118.8

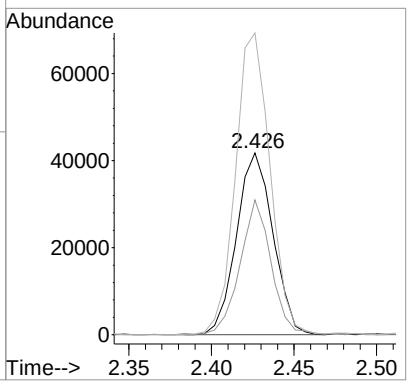


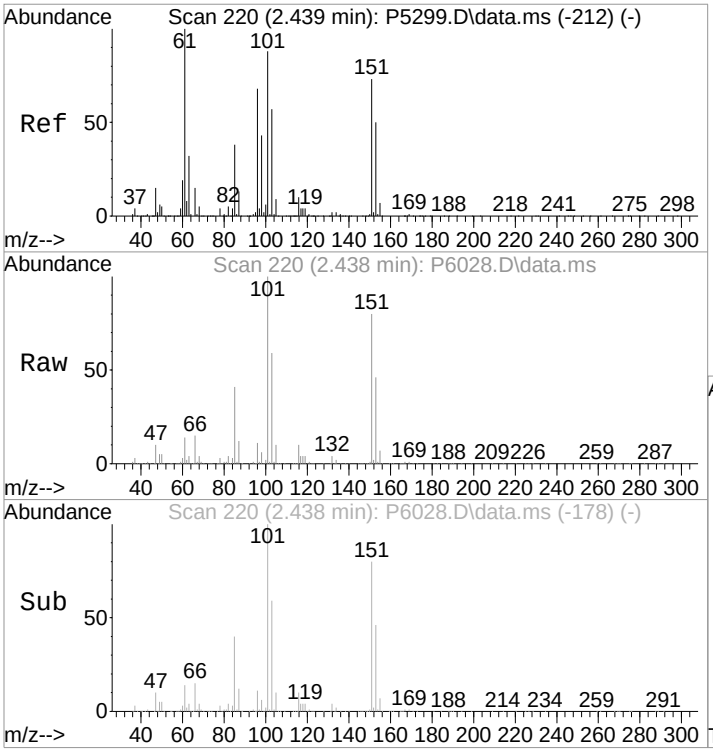


#13
1,1-Diclethene
Concen: 11.84 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 96 Resp: 64221

Ion	Ratio	Lower	Upper
96	100		
98	74.0	41.8	81.8
61	166.0	150.1	190.1

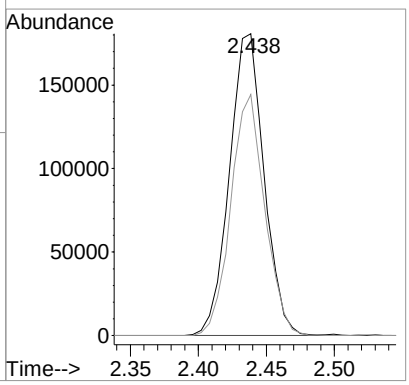


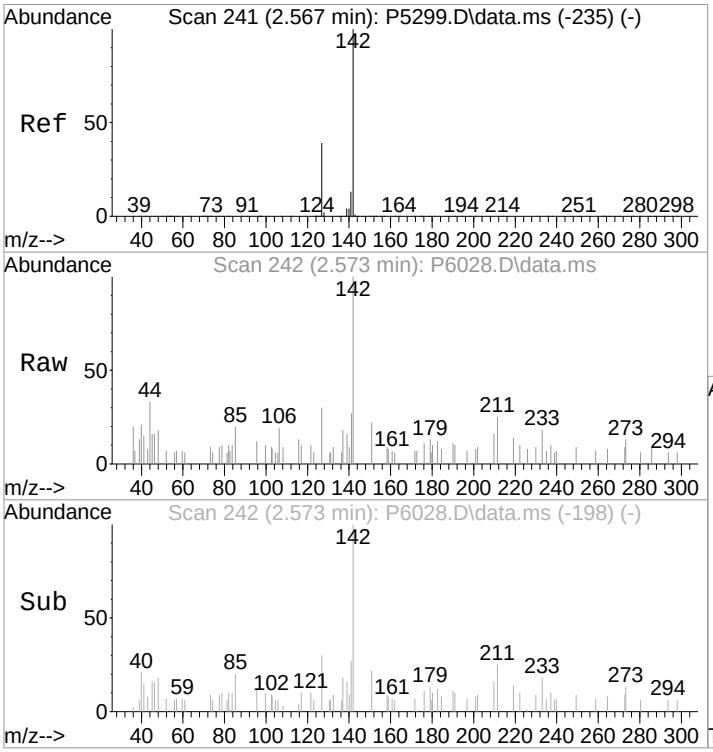


#14
Freon 113
Concen: 55.53 ppb
RT: 2.438 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:101 Resp: 319414

Ion	Ratio	Lower	Upper
101	100		
151	79.9	62.6	102.6

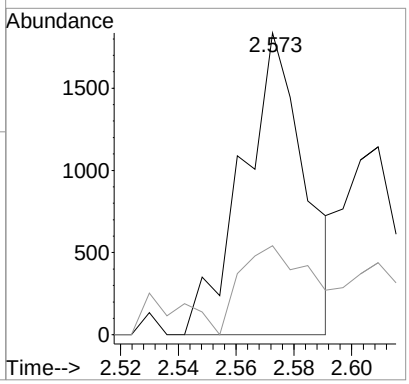


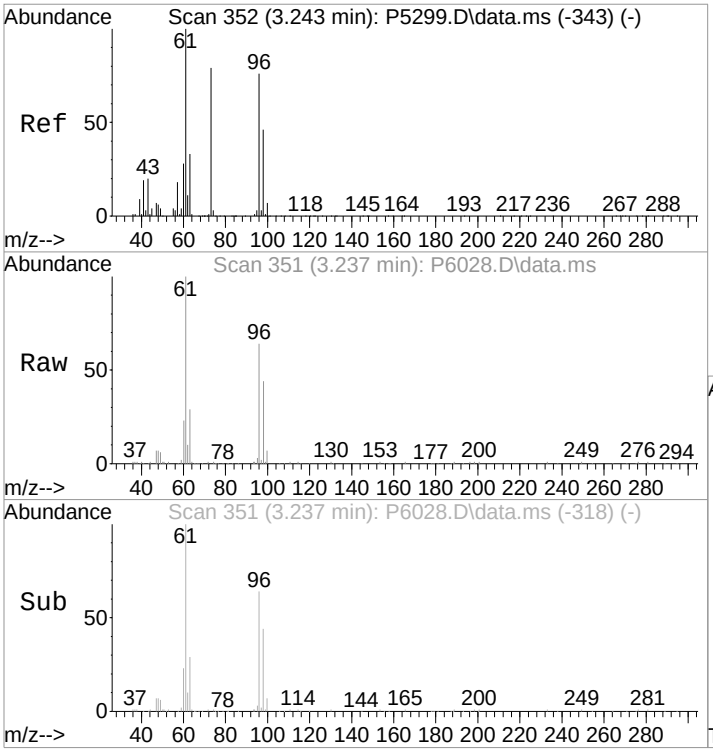


#17
Iodomethane
Concen: 0.38 ppb
RT: 2.573 min Scan# 242
Delta R.T. 0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:142 Resp: 2744

Ion	Ratio	Lower	Upper
142	100		
127	29.5	18.7	58.7

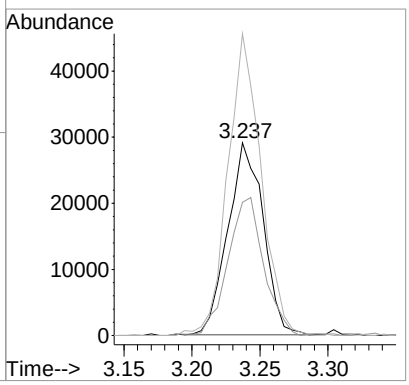


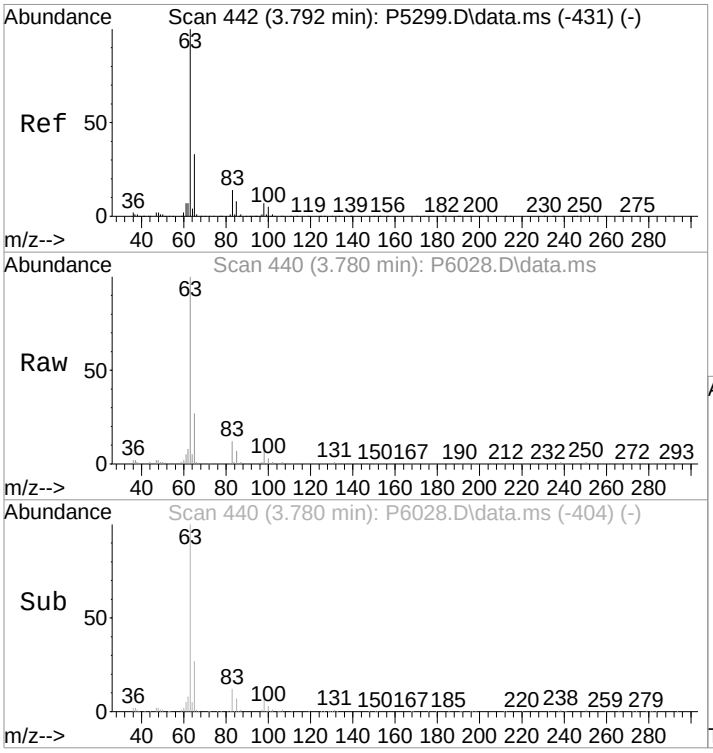


#26
trans-1,2-Dichloroethene
Concen: 8.58 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 96 Resp: 52320

Ion	Ratio	Lower	Upper
96	100		
98	69.1	41.0	81.0
61	156.7	112.4	152.4#

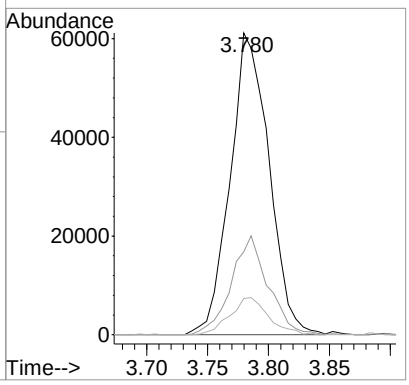


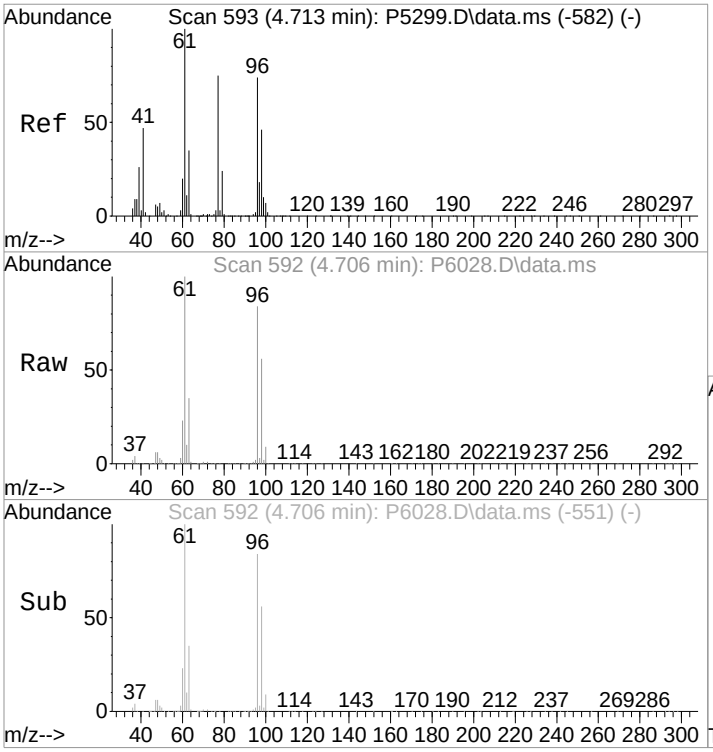


#28
1,1-Diclethane
Concen: 13.39 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 63 Resp: 135646

Ion	Ratio	Lower	Upper
63	100		
65	27.4	12.9	52.9
83	12.0	0.0	33.5

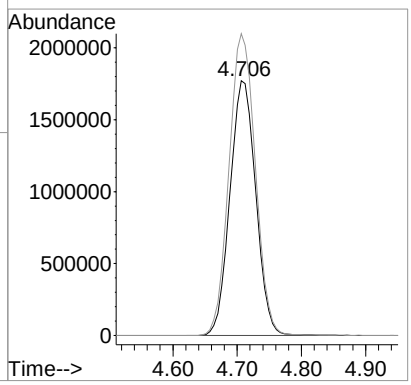


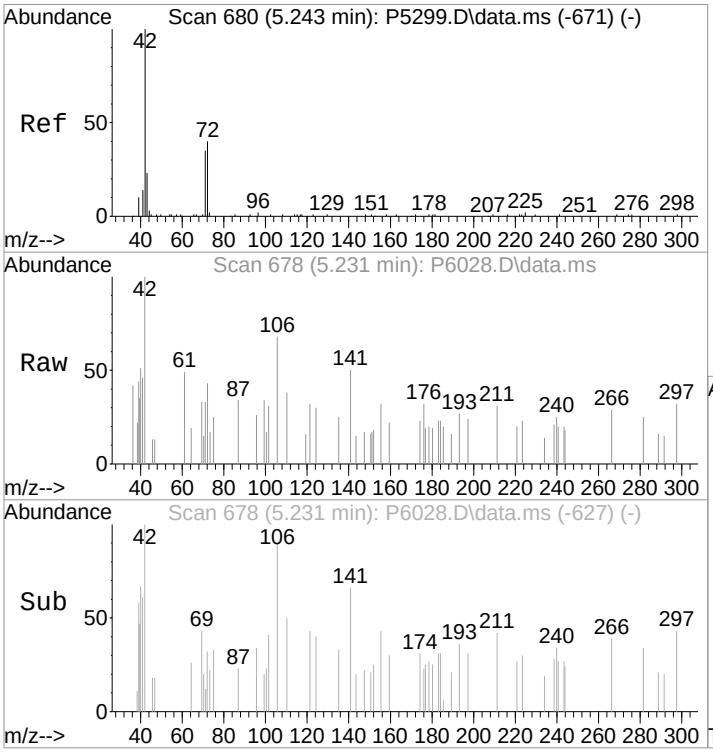


#34
cis-1,2-Dichloroethene
Concen: 795.06 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 96 Resp: 4949489

Ion	Ratio	Lower	Upper
96	100		
61	118.6	114.6	154.6

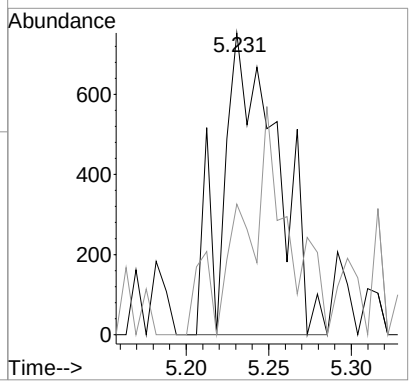


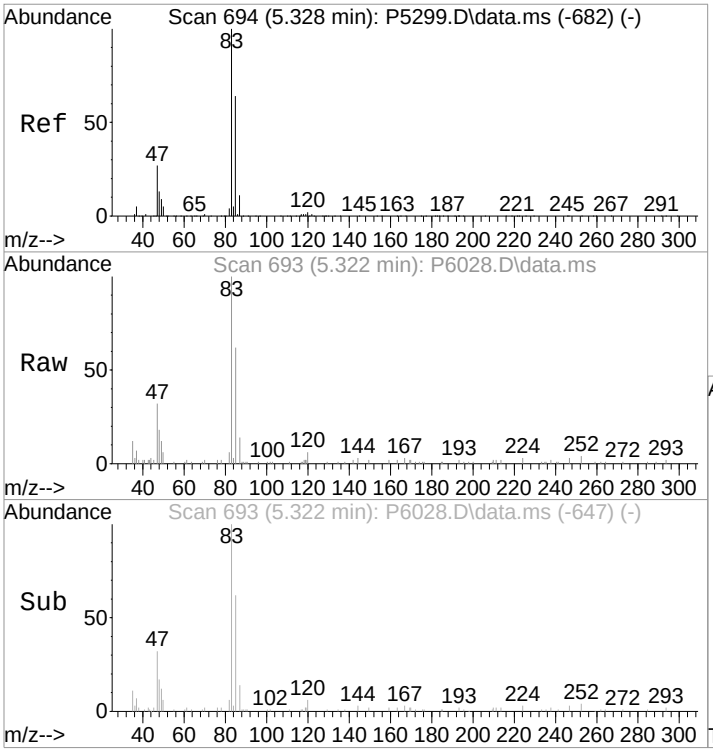


#39
Tetrahydrofuran
Concen: 1.34 ppb
RT: 5.231 min Scan# 678
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 42 Resp: 1754

Ion	Ratio	Lower	Upper
42	100		
72	43.2	19.7	59.7

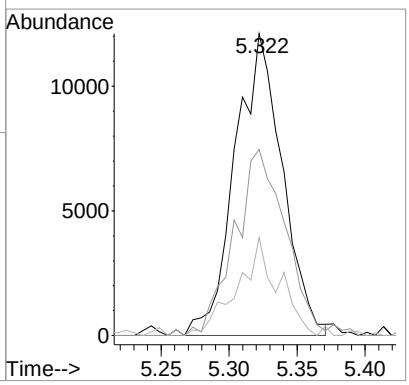


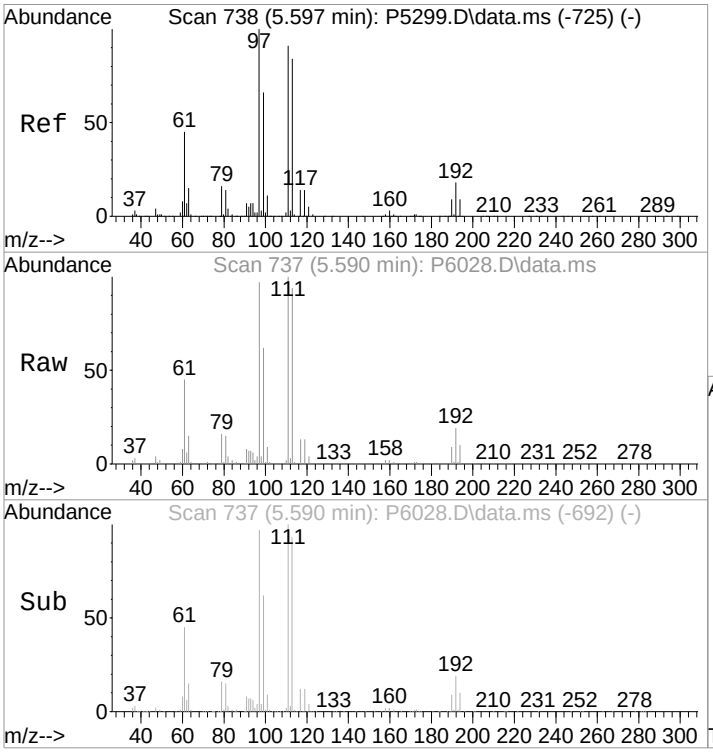


#40
Chloroform
Concen: 2.96 ppb
RT: 5.322 min Scan# 693
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 83 Resp: 29229

Ion	Ratio	Lower	Upper
83	100		
85	61.6	44.1	84.1
47	32.4	7.4	47.4

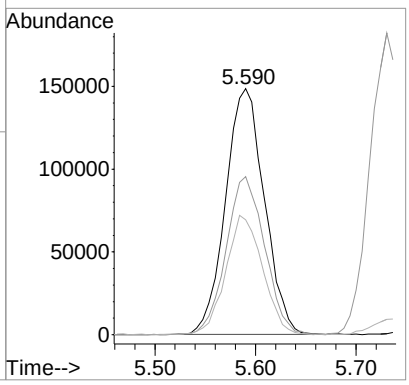


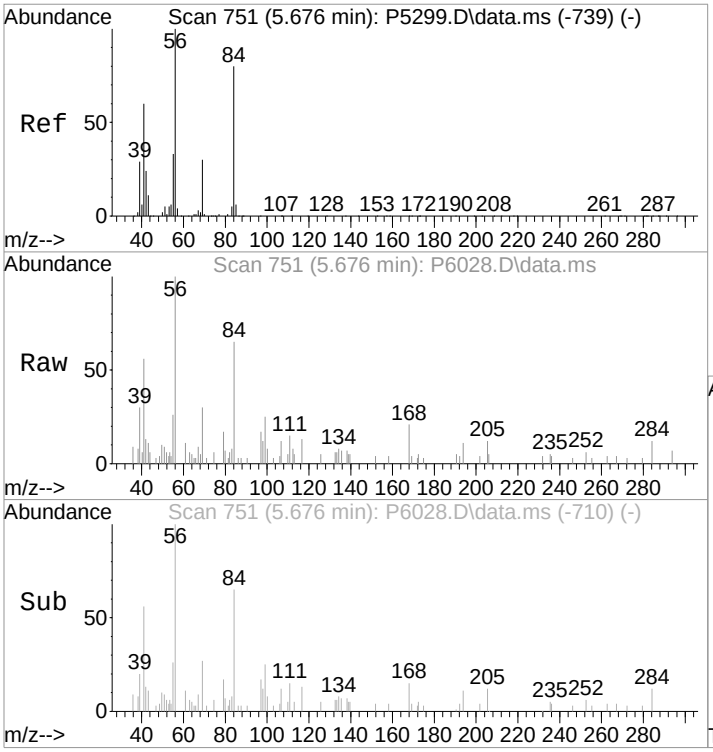


#41
1,1,1-Trichloroethane
Concen: 43.86 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 97 Resp: 398883

Ion	Ratio	Lower	Upper
97	100		
99	64.3	46.2	86.2
61	46.7	25.3	65.3

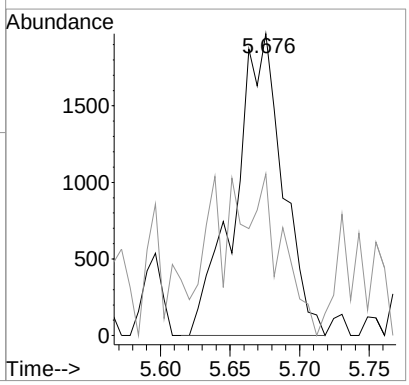


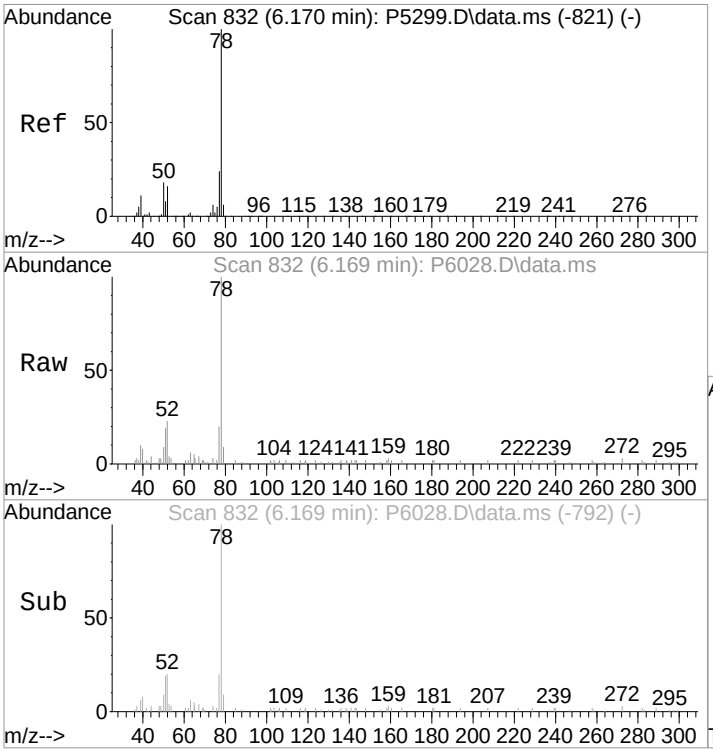


#44
Cyclohexane
Concen: 0.69 ppb m
RT: 5.676 min Scan# 751
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 41 Resp: 4703

Ion	Ratio	Lower	Upper
41	100		
39	53.5	29.0	69.0

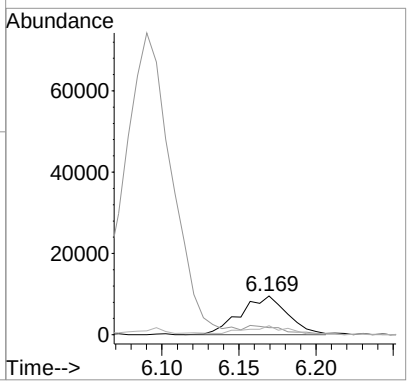


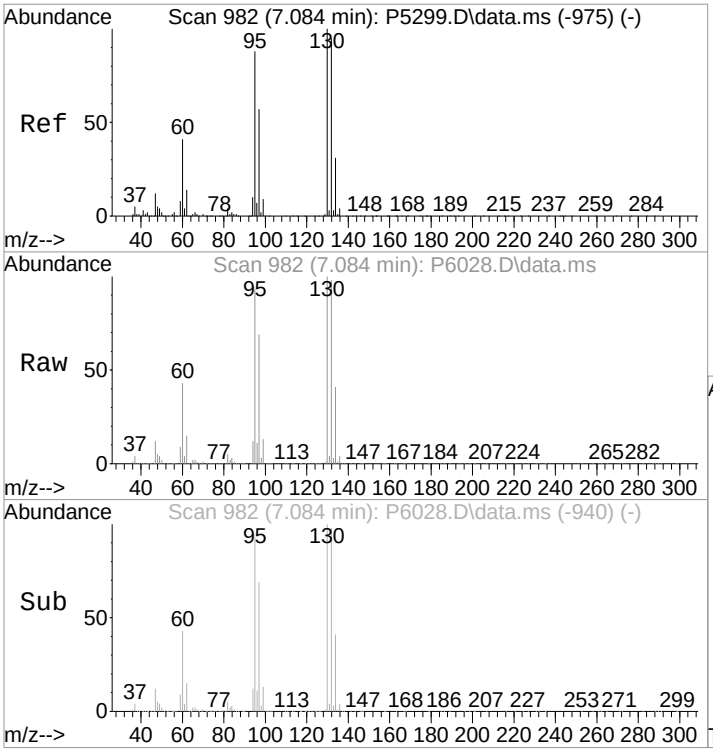


#49
Benzene
Concen: 0.85 ppb
RT: 6.169 min Scan# 832
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion: 78 Resp: 20313

Ion	Ratio	Lower	Upper
78	100		
51	18.7	0.0	39.7
52	23.2	0.0	36.3

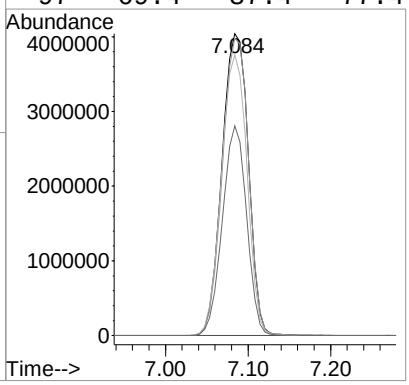


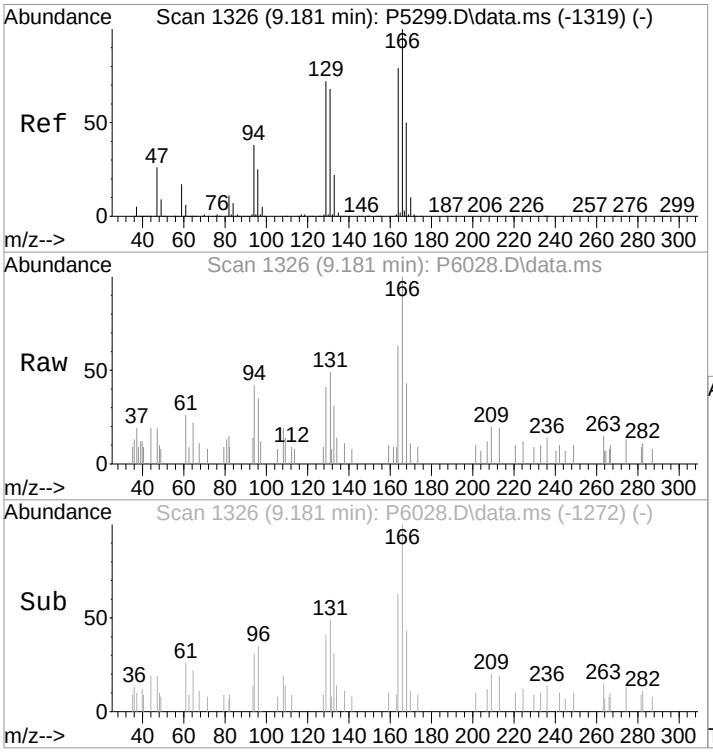


#54
Trichloroethene
Concen: 1330.88 ppb
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:130 Resp: 8992797

Ion	Ratio	Lower	Upper
130	100		
132	98.4	75.2	115.2
95	93.0	68.1	108.1
97	69.4	37.4	77.4

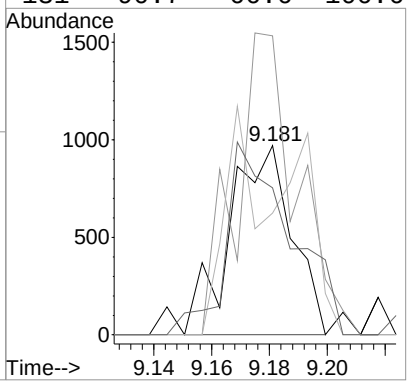


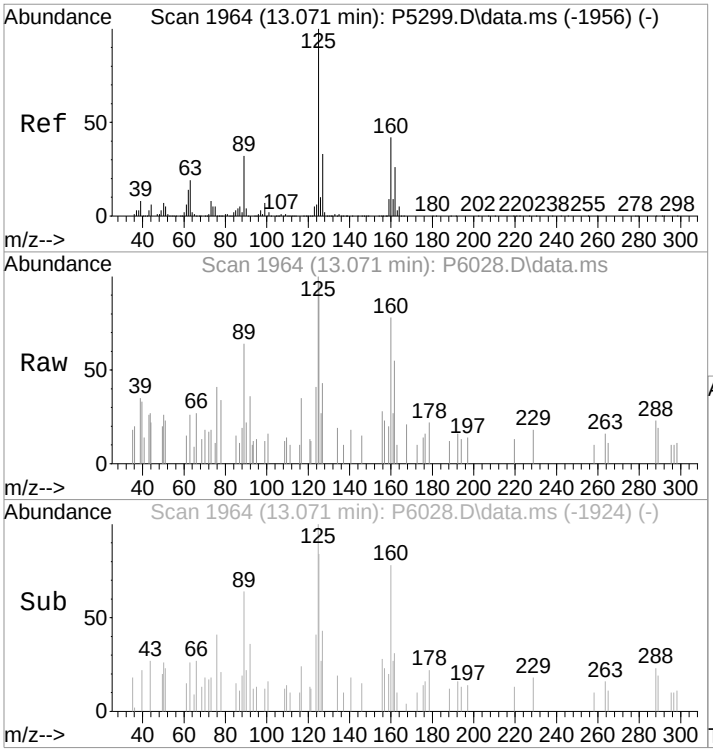


#72
Tetrachloroethene
Concen: 0.28 ppb
RT: 9.181 min Scan# 1326
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:164 Resp: 1463

Ion	Ratio	Lower	Upper
164	100		
166	157.9	106.7	146.7#
129	64.3	71.7	111.7#
131	90.7	66.6	106.6

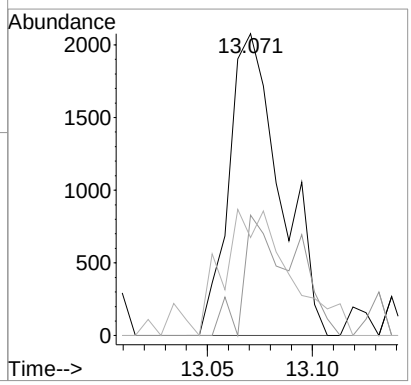


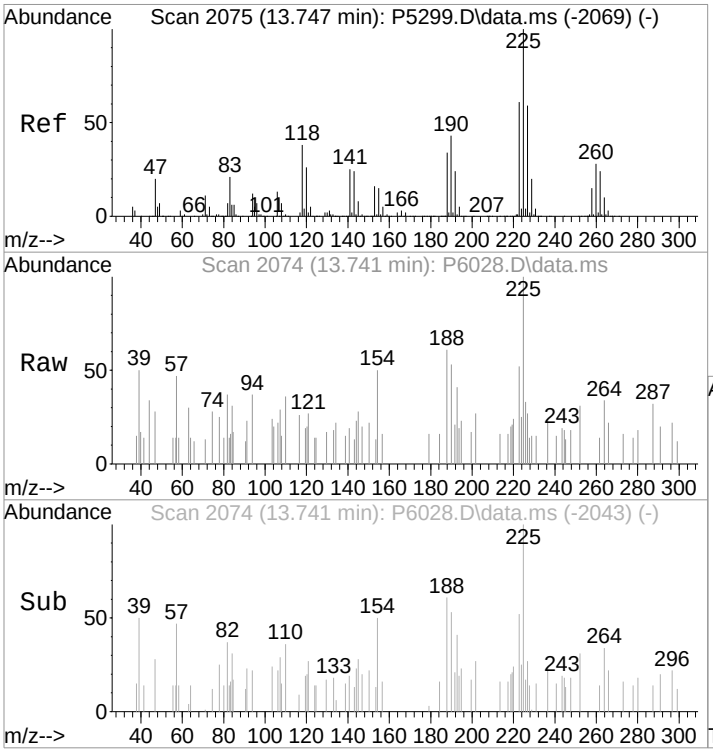


#112
Trielution Dichlorotoluene
Concen: 0.30 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:125 Resp: 3554

Ion	Ratio	Lower	Upper
125	100		
160	39.8	33.6	50.4
89	32.4	25.8	38.8

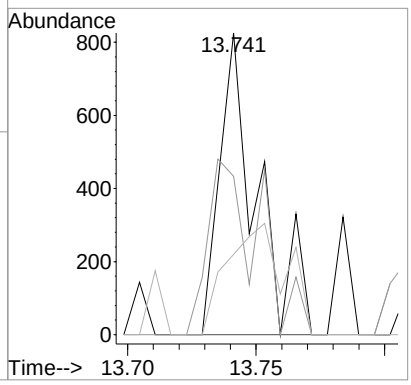


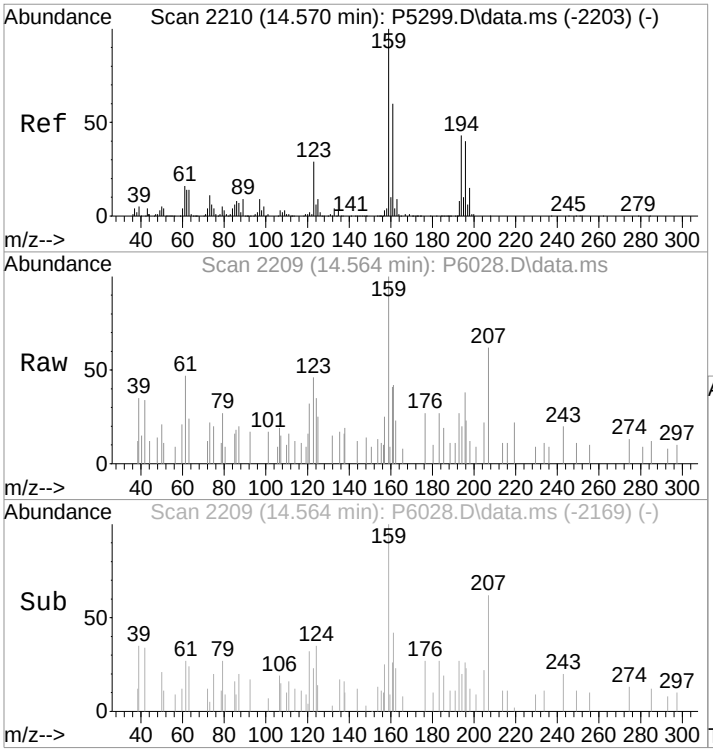


#116
Hexachlorobt
Concen: 0.21 ppb
RT: 13.741 min Scan# 2074
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:225 Resp: 848

Ion	Ratio	Lower	Upper
225	100		
223	52.4	41.4	81.4
227	40.3	39.1	79.1

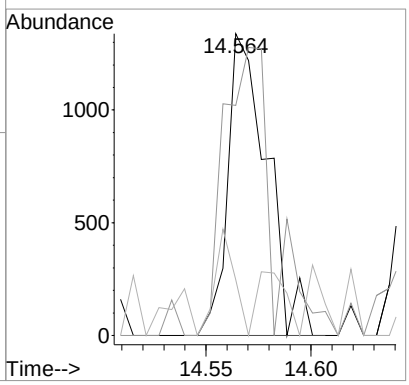


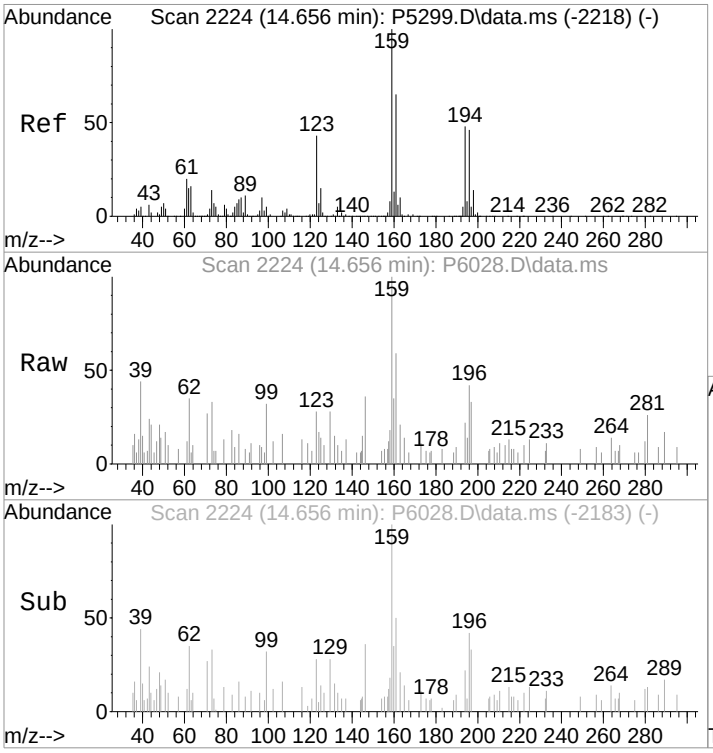


#119
2,4,5-Trichlorotolene
Concen: 0.31 ppb
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:159 Resp: 1750

Ion	Ratio	Lower	Upper
159	100		
161	76.2	48.1	72.1#
194	18.4	34.5	51.7#

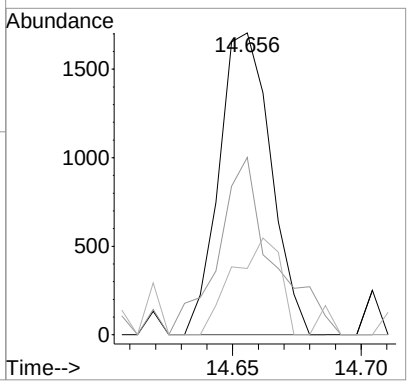




#120
2,3,6-Trichlorotoluene
Concen: 0.46 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6028.D
Acq: 28 Oct 2016 1:23 am

Tgt Ion:159 Resp: 2401

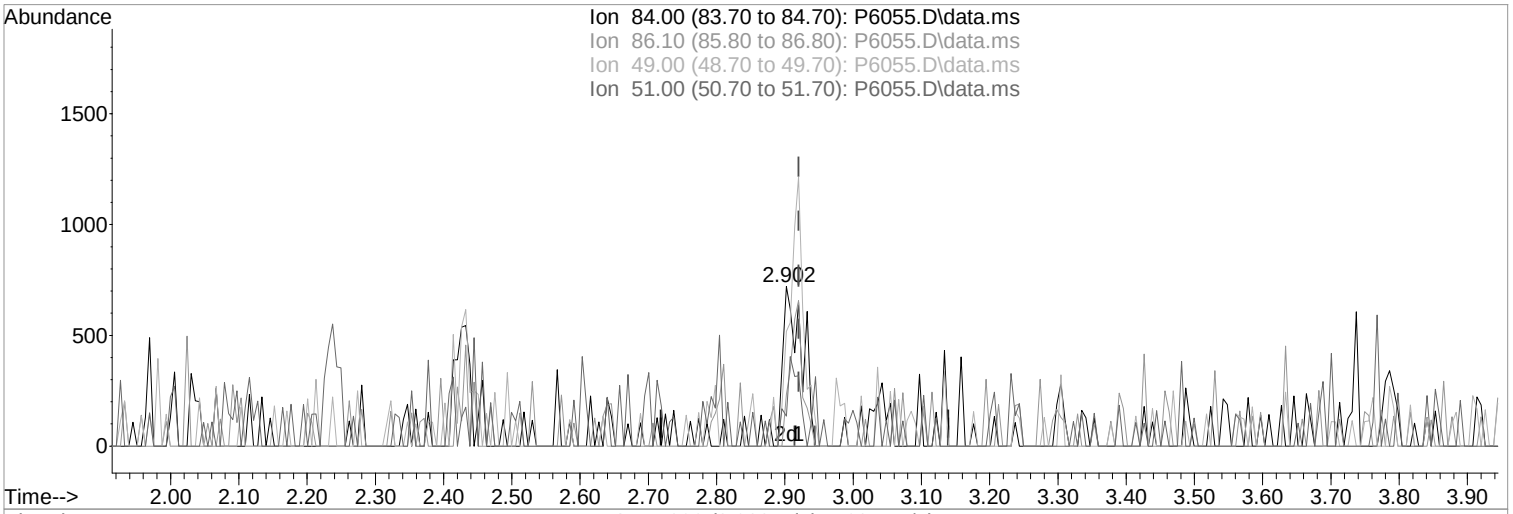
Ion	Ratio	Lower	Upper
159	100		
161	58.7	52.3	78.5
194	22.0	38.6	57.8#

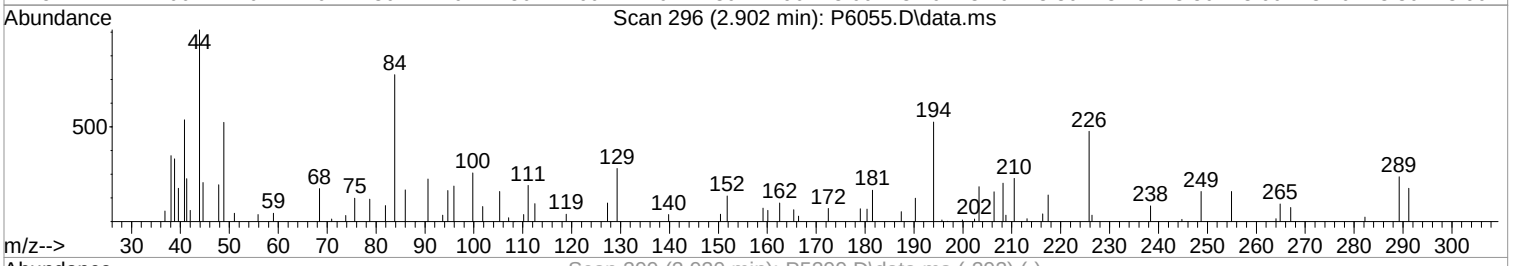


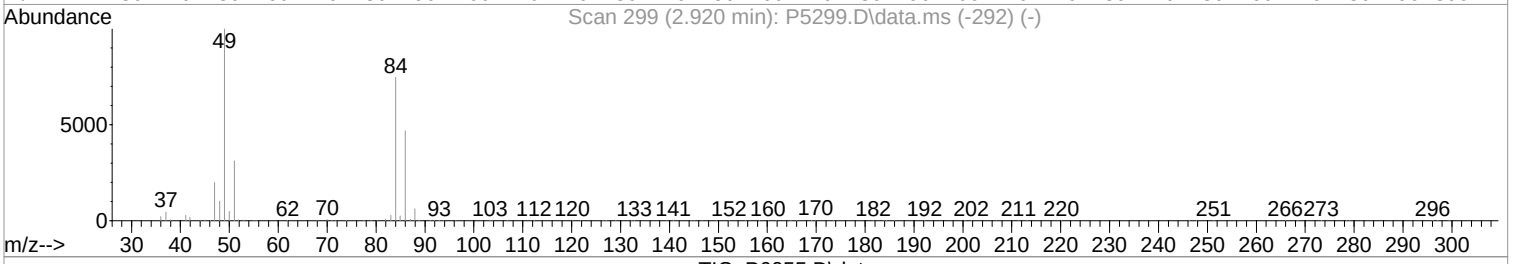
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6055.D
Acq On : 28 Oct 2016 3:44 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-033|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 28 16:02:14 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6055.D\data.ms

(22) Methylene Chloride (P)

2.902min (-0.018) 0.24 ppb m

response 1378

Ion	Exp%	Act%
84.00	100	100
86.10	62.80	32.36#
49.00	133.90	71.94#
51.00	41.80	18.75#

Manual Integration:

After

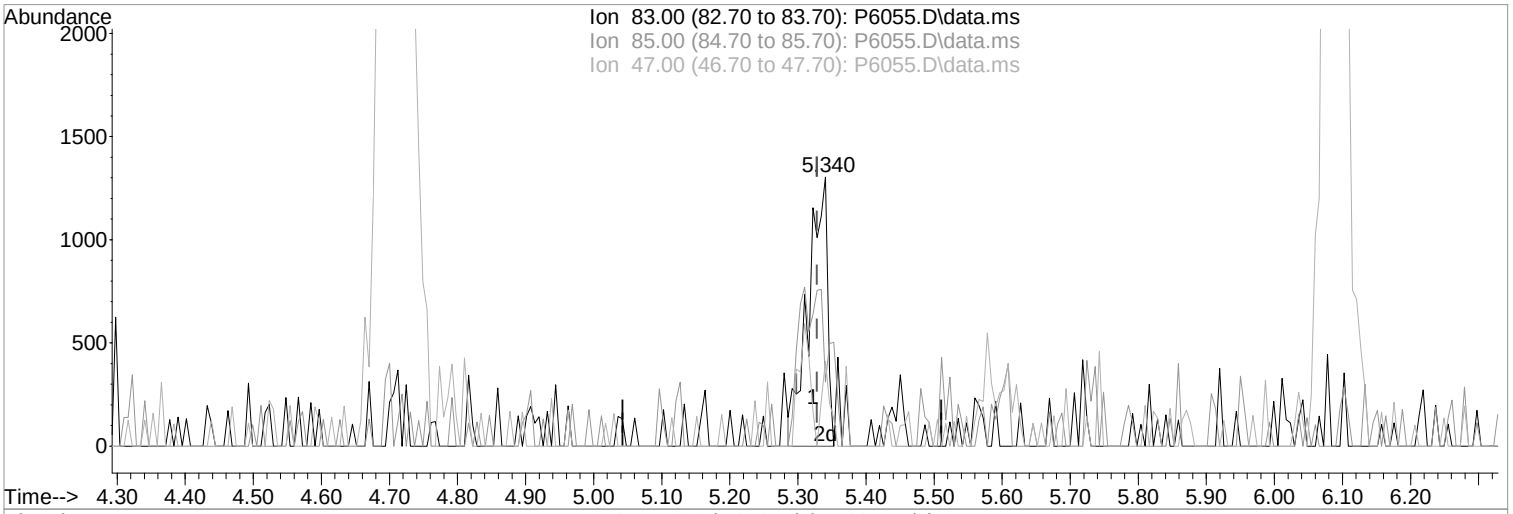
Split Peak

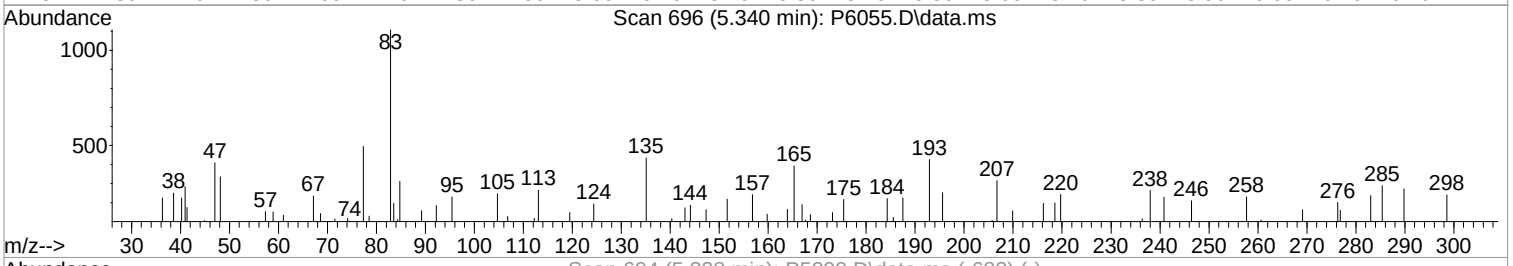
10/31/16

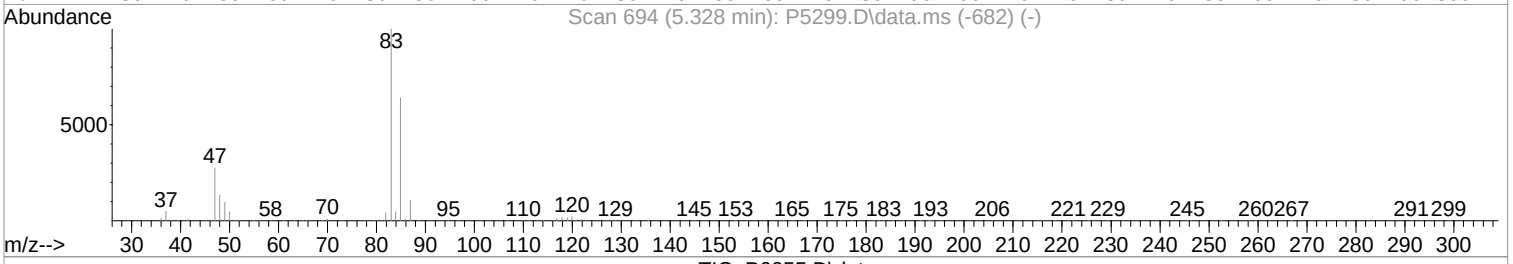
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6055.D
Acq On : 28 Oct 2016 3:44 pm
Operator : K.Ruest 11185
Sample : R1611885-033|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 28 16:02:14 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6055.D\data.ms

(40) Chloroform (P)

5.340min (+0.012) 0.26 ppb m

response 2526

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	28.16#
47.00	27.40	37.00
0.00	0.00	0.00

Manual Integration:

After

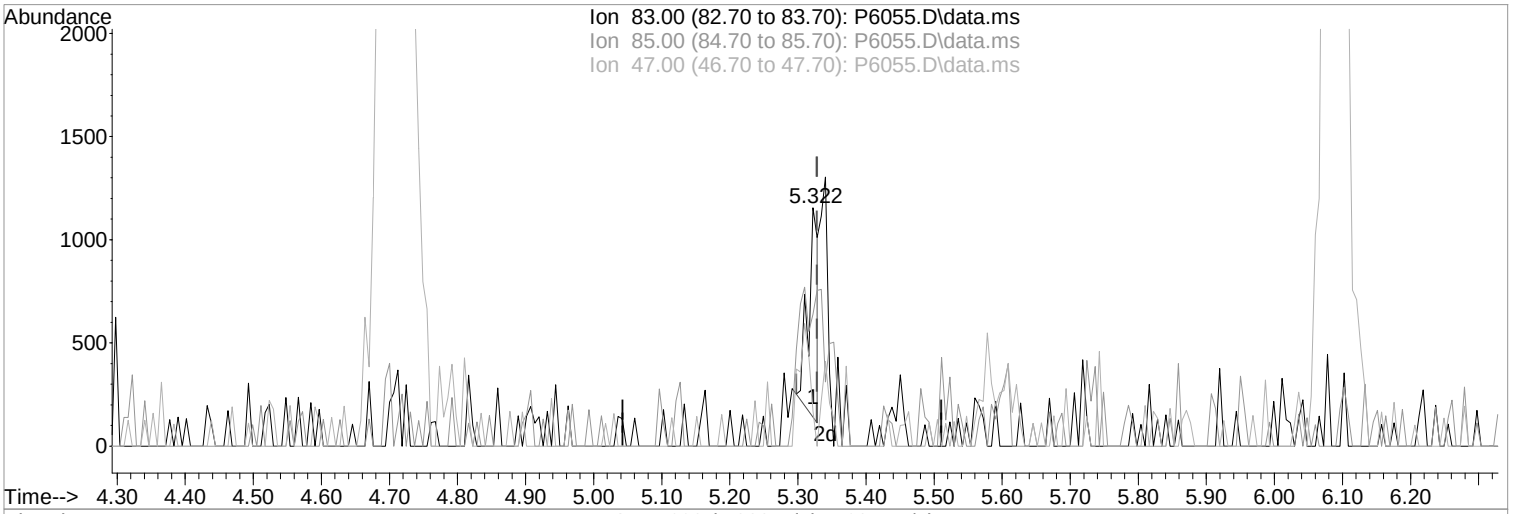
Split Peak

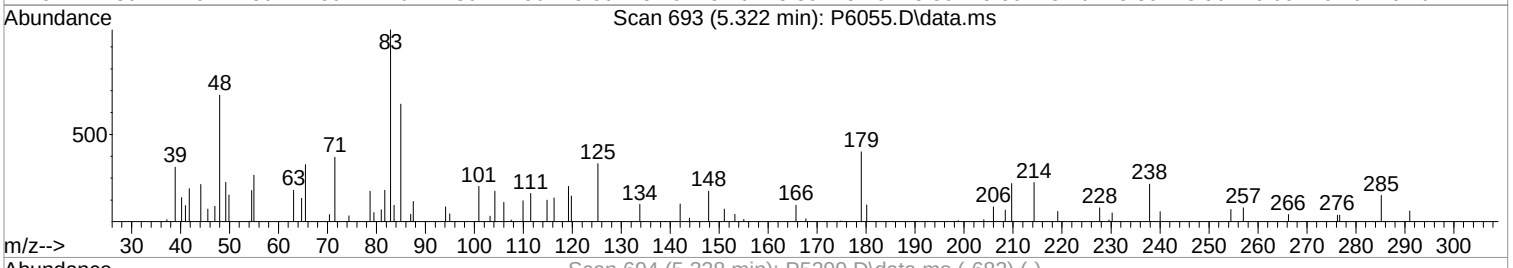
10/31/16

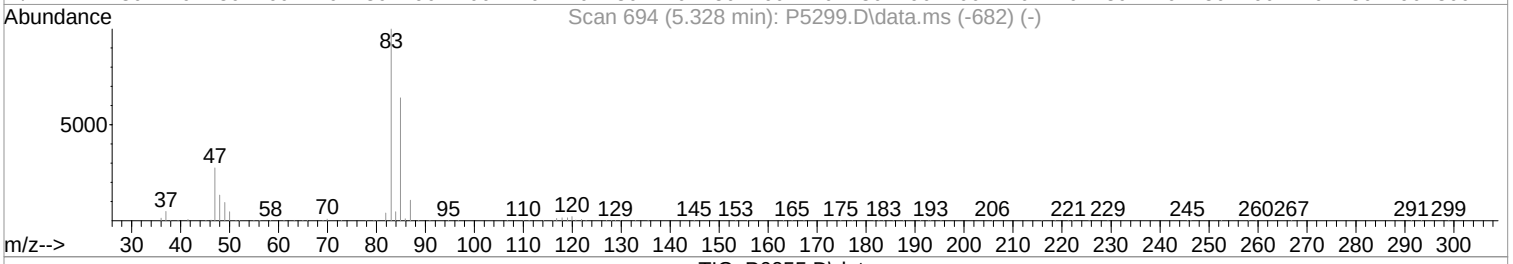
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6055.D
Acq On : 28 Oct 2016 3:44 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-033|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 28 16:02:14 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6055.D\data.ms

(40) Chloroform (P)

5.322min (-0.006) 0.10 ppb

response 984

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	55.24
47.00	27.40	14.89
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6055.D
Acq On : 28 Oct 2016 3:44 pm
Operator : K.Ruest
Sample : R16~~11885~~11185-033|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 31 10:50:06 2016 dil
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

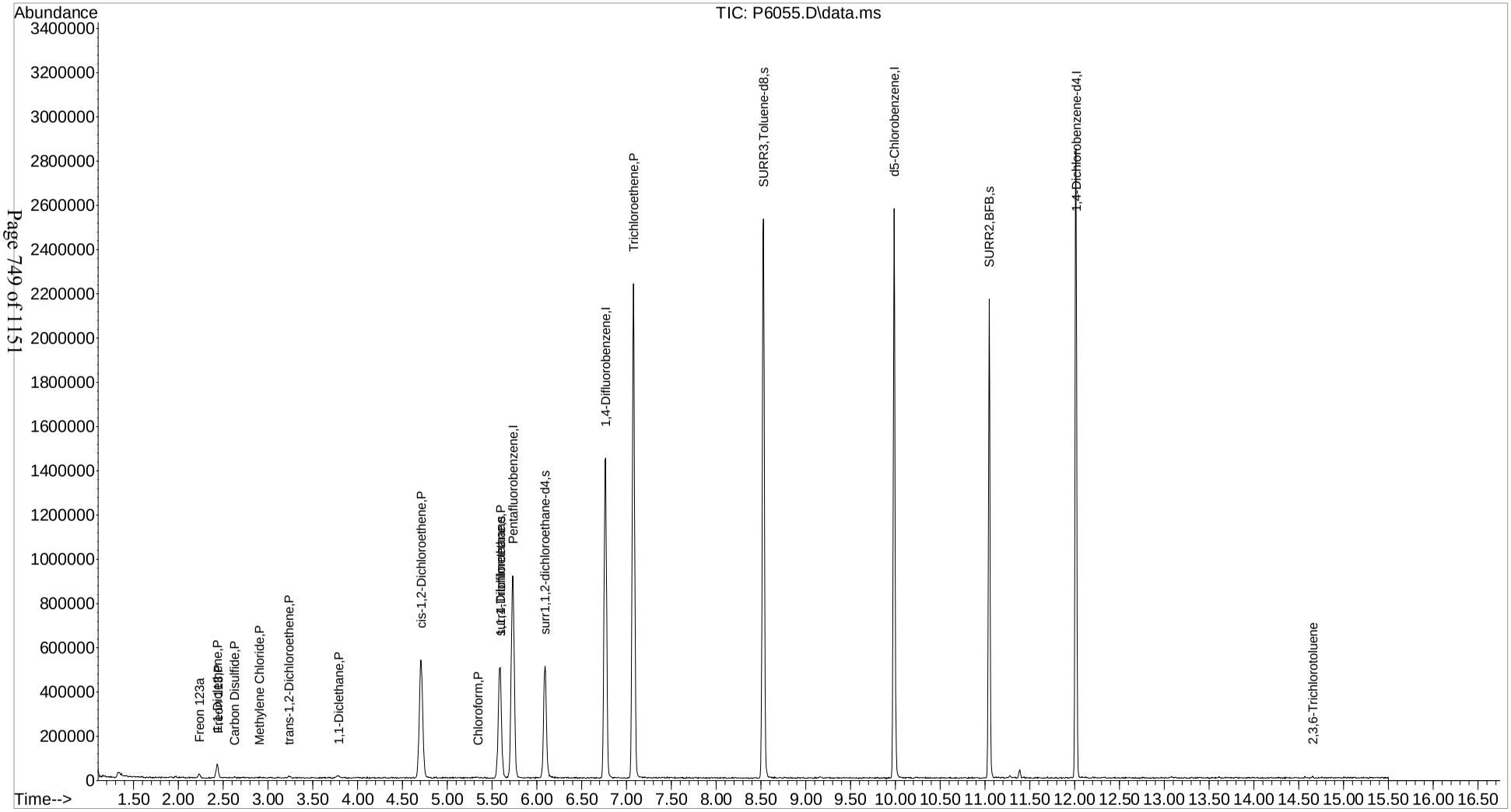
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	771355	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1264060	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1139920	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	578685	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	353524	52.40	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.80%				
48) surr1,1,2-dichloroetha...	6.090	65	396739	51.77	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.54%				
65) SURR3,Toluene-d8	8.529	98	1557563	56.34	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.68%				
70) SURR2,BFB	11.047	95	551232	51.11	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.22%				
Target Compounds							Qvalue
10) Freon 123a	2.231	67	6669	1.36	ppb		87
13) 1,1-Diclethene	2.433	96	4653	0.87	ppb	#	43
14) Freon 113	2.439	101	18678	3.28	ppb		96
18) Carbon Disulfide	2.621	76	4656	0.28	ppb		94
22) Methylene Chloride	2.902	84	1378m	0.24	ppb		
26) trans-1,2-Dichloroethene	3.237	96	2820	0.47	ppb		95
28) 1,1-Diclethane	3.786	63	7892	0.79	ppb		95
34) cis-1,2-Dichloroethene	4.706	96	337392	54.81	ppb		89
40) Chloroform	5.340	83	2526m	0.26	ppb		
41) 1,1,1-Trichloroethane	5.590	97	20642	2.30	ppb		86
54) Trichloroethene	7.078	130	791332	118.56	ppb		97
120) 2,3,6-Trichlorotoluene	14.656	159	1053	0.21	ppb	#	80

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

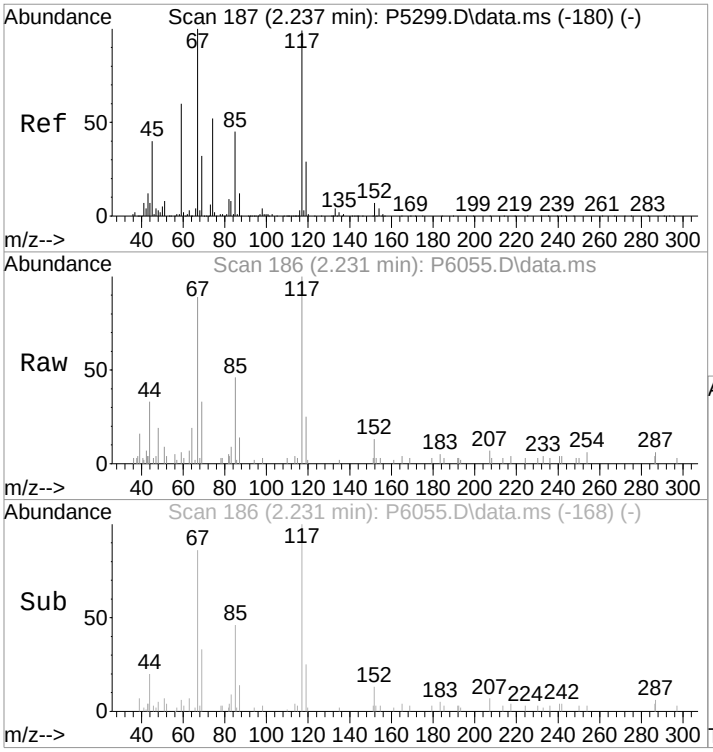
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6055.D
Acq On : 28 Oct 2016 3:44 pm
Operator : K.Ruest
Sample : R1611885-033|20 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 31 10:50:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



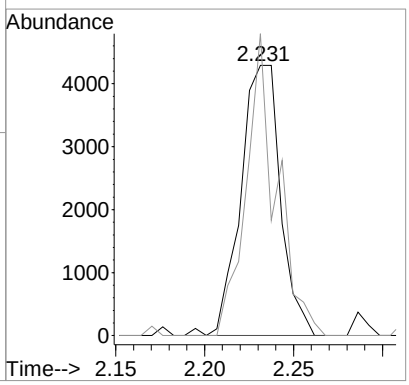
1st 10/31/16
2nd 10/31/16

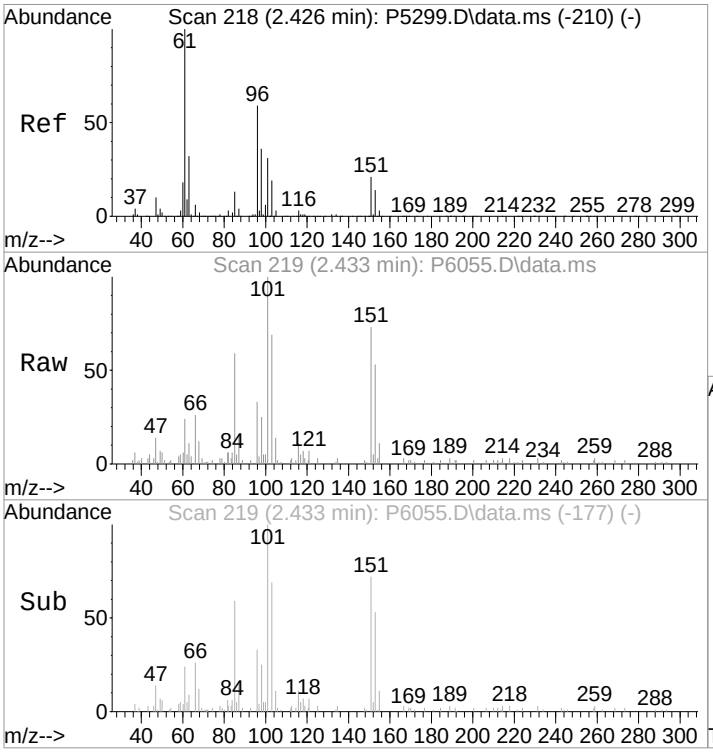


#10
Freon 123a
Concen: 1.36 ppb
RT: 2.231 min Scan# 186
Delta R.T. -0.006 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 67 Resp: 6669

Ion	Ratio	Lower	Upper
67	100		
117	111.7	78.8	118.8

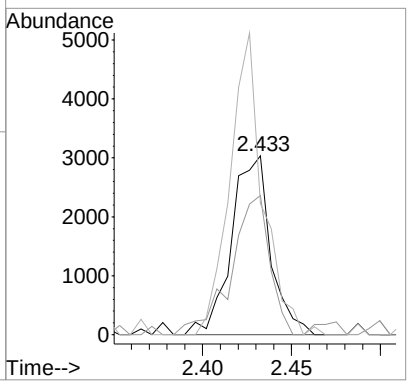


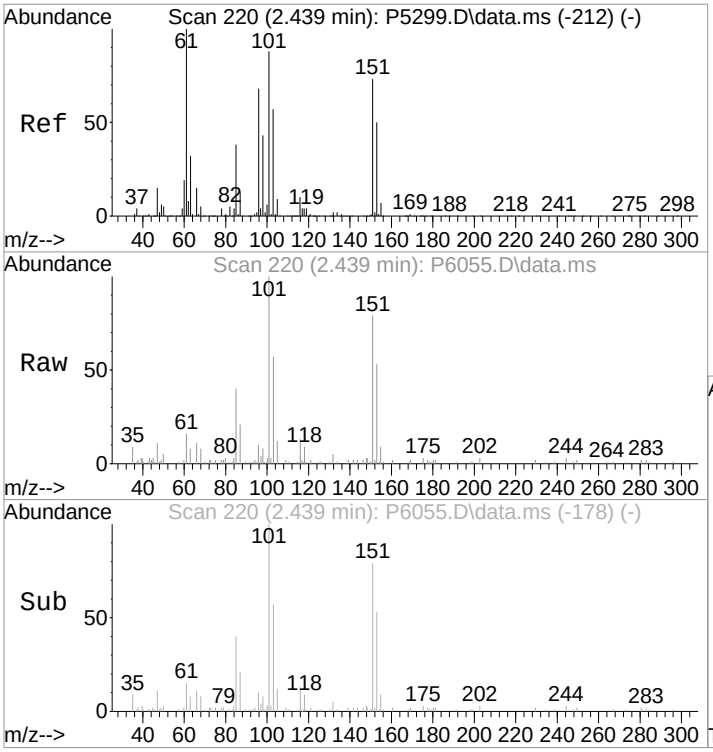


#13
1,1-Diclethene
Concen: 0.87 ppb
RT: 2.433 min Scan# 219
Delta R.T. 0.006 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 96 Resp: 4653

Ion	Ratio	Lower	Upper
96	100		
98	77.7	41.8	81.8
61	73.4	150.1	190.1#

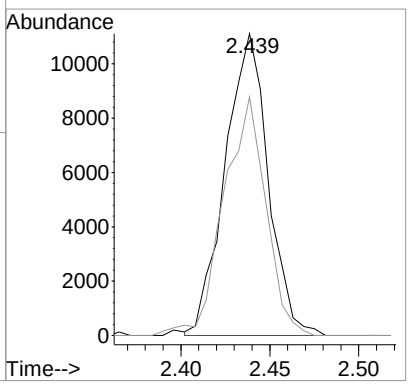


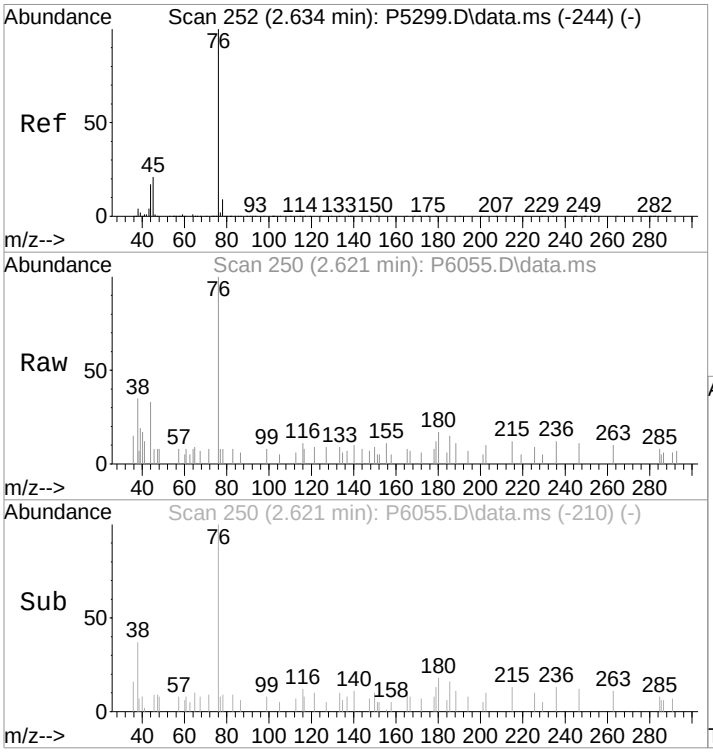


#14
Freon 113
Concen: 3.28 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion:101 Resp: 18678

Ion	Ratio	Lower	Upper
101	100		
151	79.0	62.6	102.6

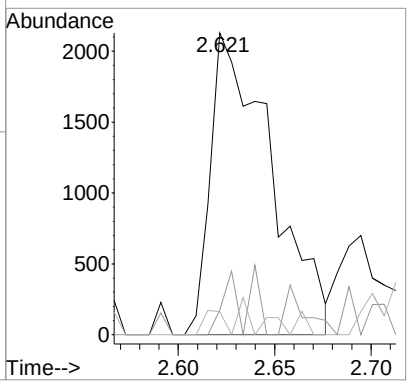


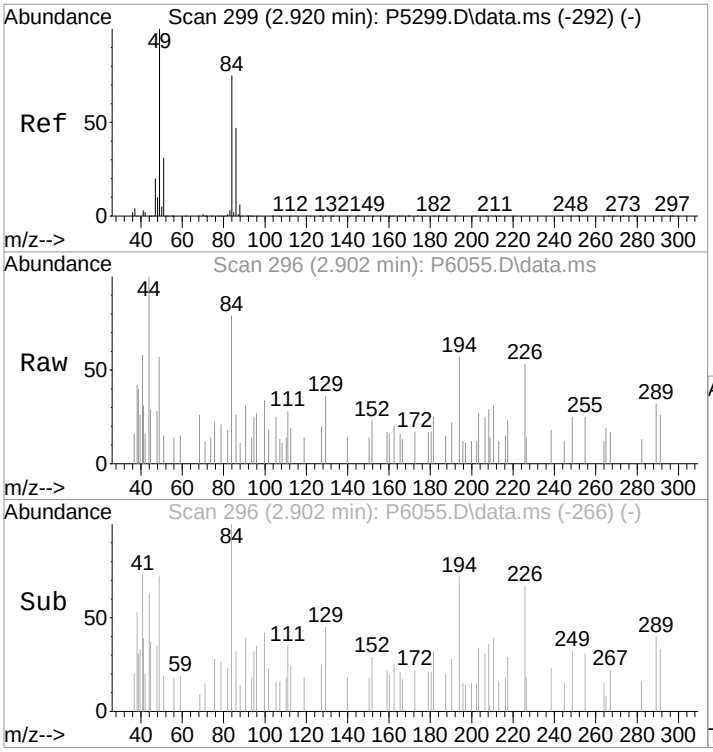


#18
Carbon Disulfide
Concen: 0.28 ppb
RT: 2.621 min Scan# 250
Delta R.T. -0.012 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 76 Resp: 4656

Ion	Ratio	Lower	Upper
76	100		
78	8.2	0.0	29.3
77	7.7	0.0	22.5

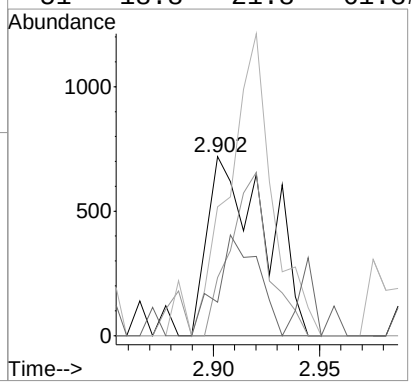


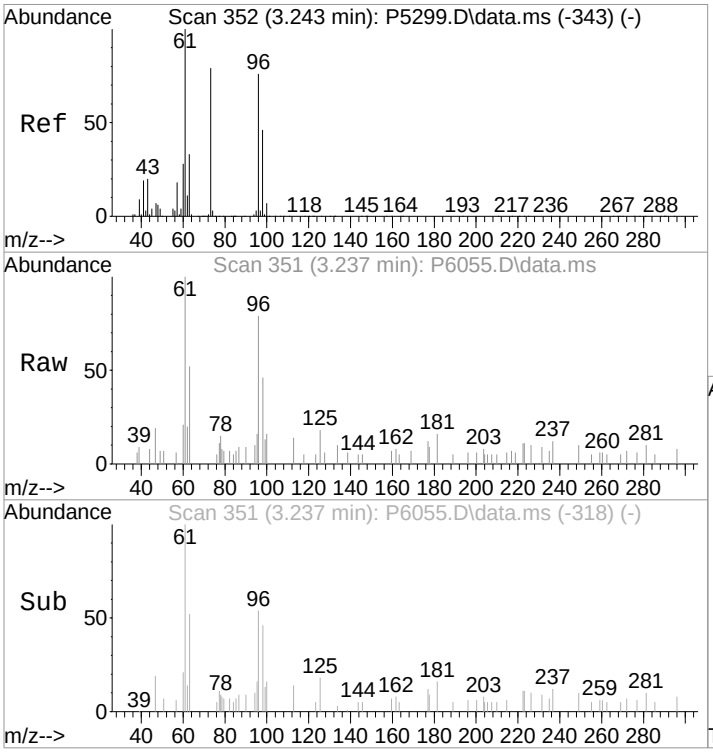


#22
Methylene Chloride
Concen: 0.24 ppb m
RT: 2.902 min Scan# 296
Delta R.T. -0.018 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 84 Resp: 1378

Ion	Ratio	Lower	Upper
84	100		
86	32.4	42.8	82.8#
49	71.9	113.9	153.9#
51	18.8	21.8	61.8#

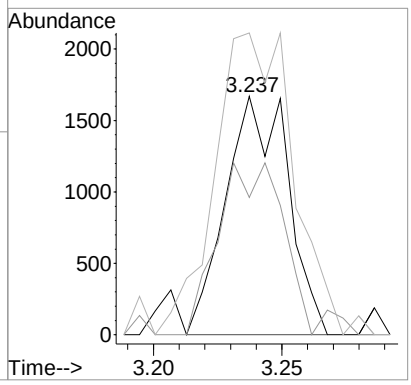


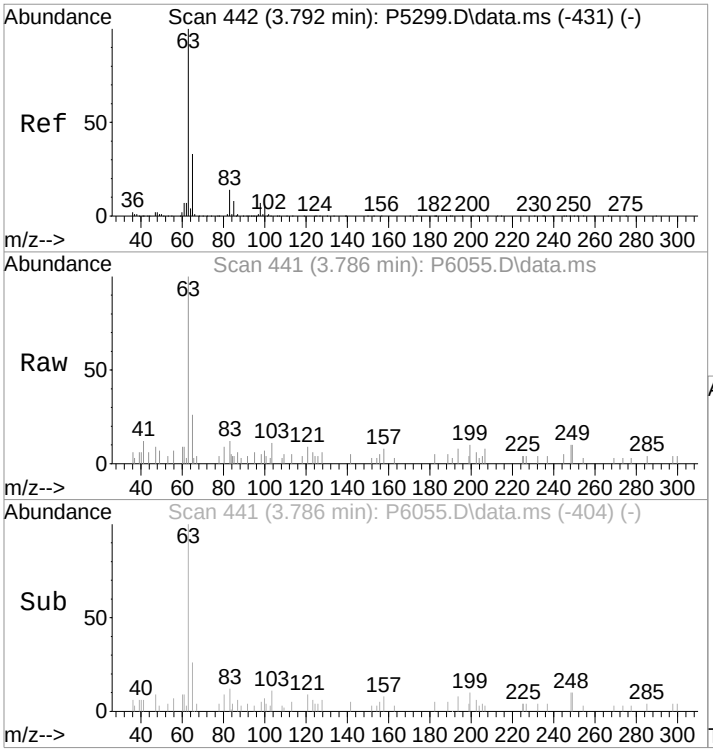


#26
trans-1,2-Dichloroethene
Concen: 0.47 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 96 Resp: 2820

Ion	Ratio	Lower	Upper
96	100		
98	57.6	41.0	81.0
61	126.6	112.4	152.4

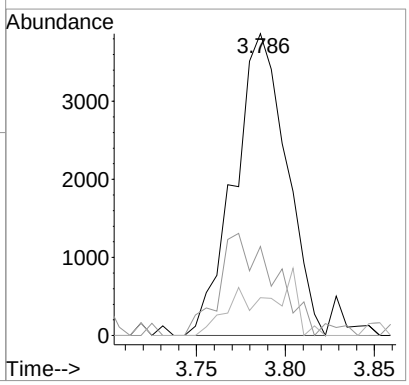


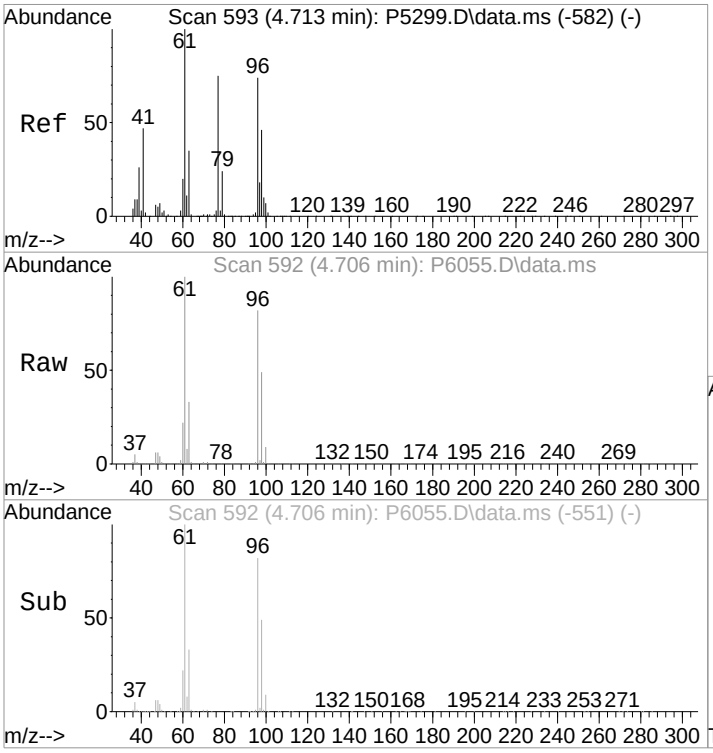


#28
1,1-Diclethane
Concen: 0.79 ppb
RT: 3.786 min Scan# 441
Delta R.T. -0.000 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 63 Resp: 7892

Ion	Ratio	Lower	Upper
63	100		
65	29.5	12.9	52.9
83	12.5	0.0	33.5

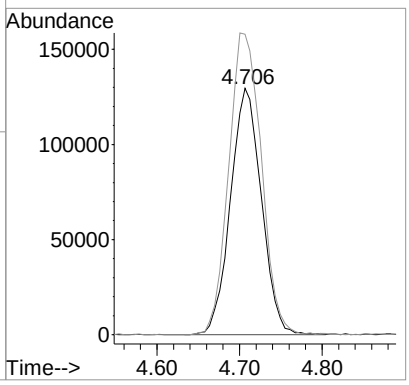


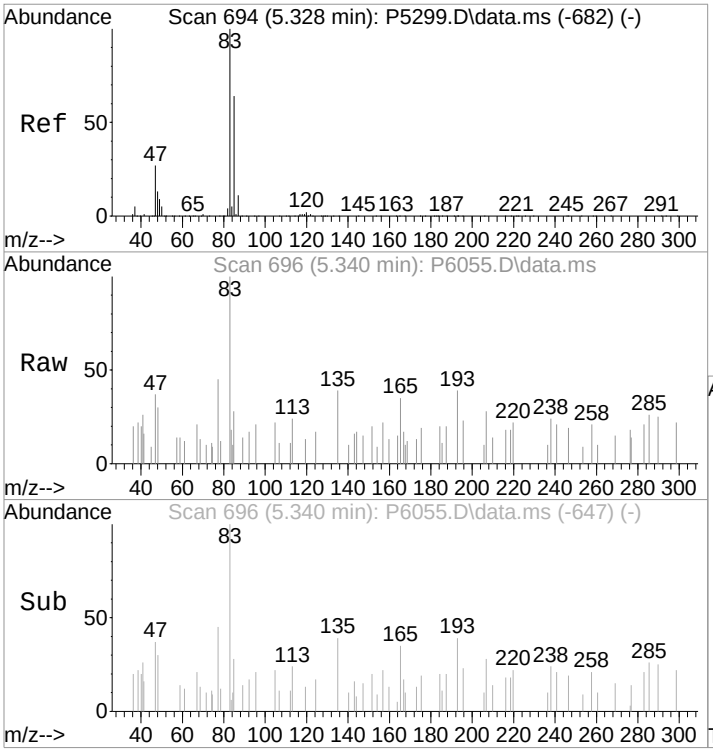


#34
cis-1,2-Dichloroethene
Concen: 54.81 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 96 Resp: 337392

Ion	Ratio	Lower	Upper
96	100		
61	121.9	114.6	154.6

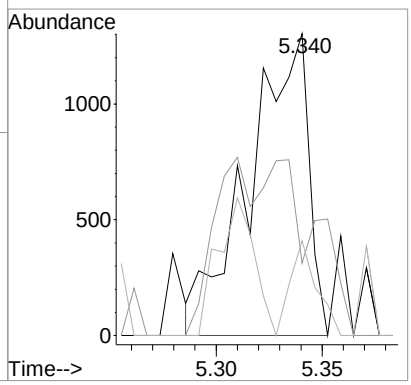


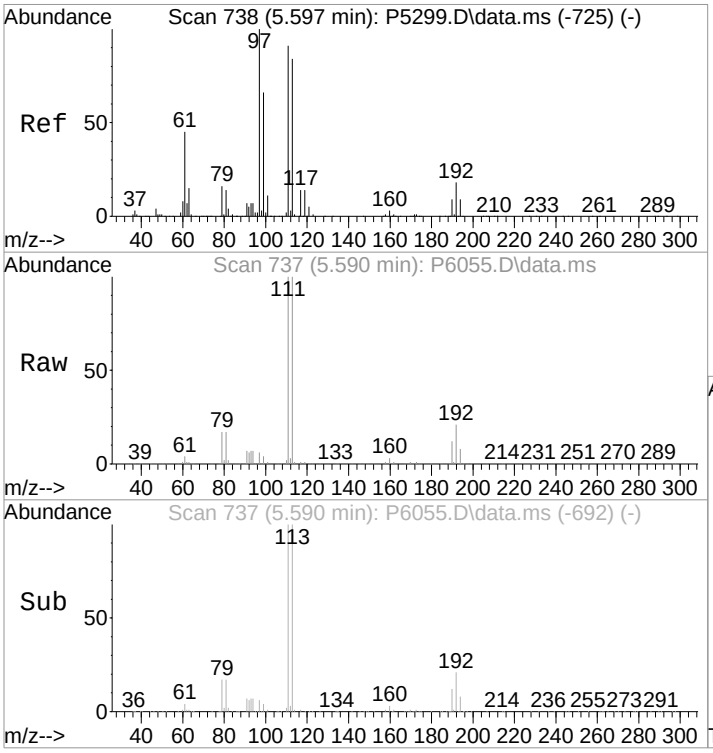


#40
Chloroform
Concen: 0.26 ppb m
RT: 5.340 min Scan# 696
Delta R.T. 0.012 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 83 Resp: 2526

Ion	Ratio	Lower	Upper
83	100		
85	28.2	44.1	84.1#
47	37.0	7.4	47.4

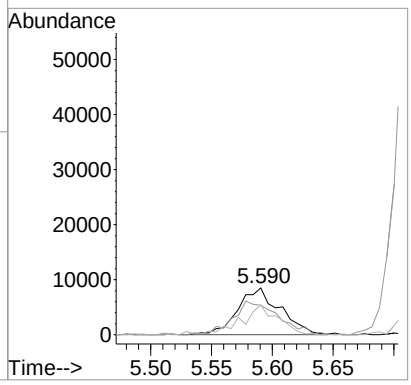


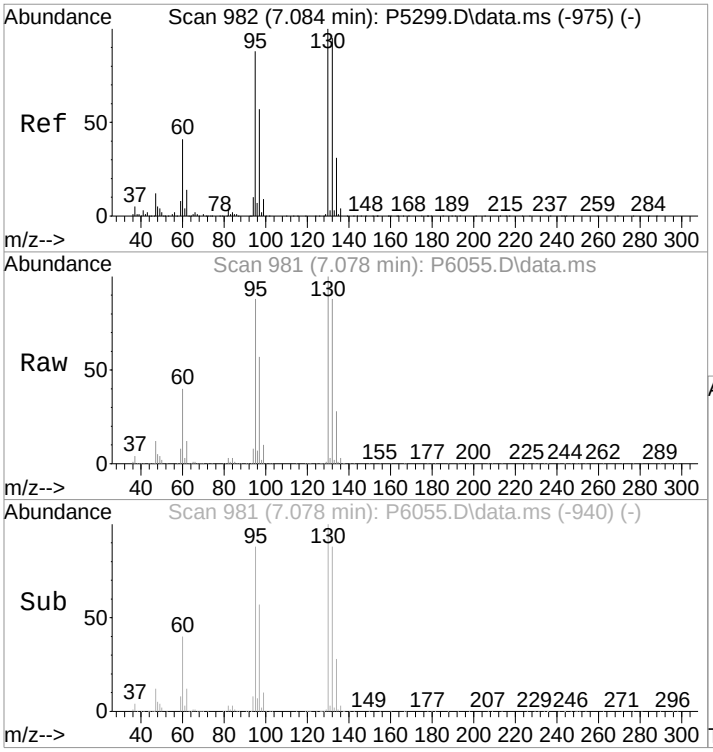


#41
1,1,1-Trichloroethane
Concen: 2.30 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion: 97 Resp: 20642

Ion	Ratio	Lower	Upper
97	100		
99	63.3	46.2	86.2
61	64.0	25.3	65.3

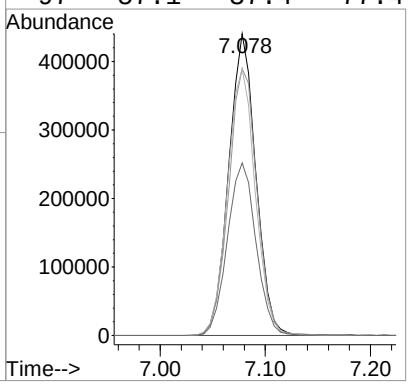


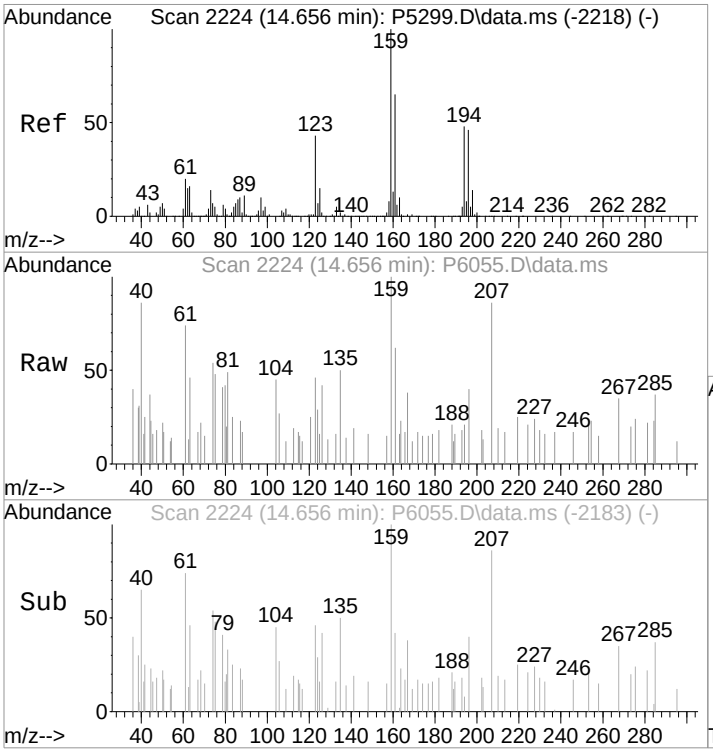


#54
Trichloroethene
Concen: 118.56 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion:130 Resp: 791332

Ion	Ratio	Lower	Upper
130	100		
132	88.4	75.2	115.2
95	88.4	68.1	108.1
97	57.1	37.4	77.4

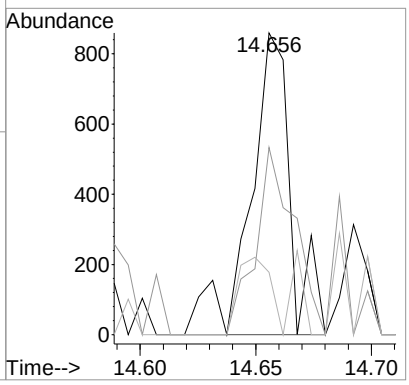




#120
2,3,6-Trichlorotoluene
Concen: 0.21 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6055.D
Acq: 28 Oct 2016 3:44 pm

Tgt Ion:159 Resp: 1053

Ion	Ratio	Lower	Upper
159	100		
161	62.0	52.3	78.5
194	20.7	38.6	57.8#

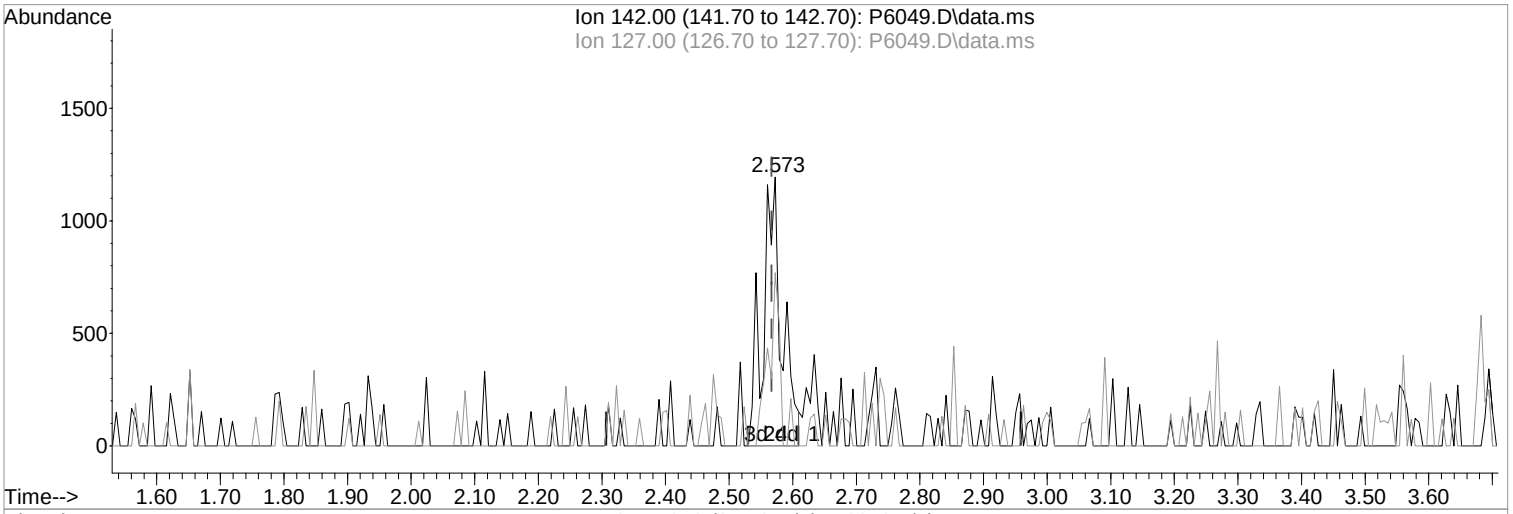


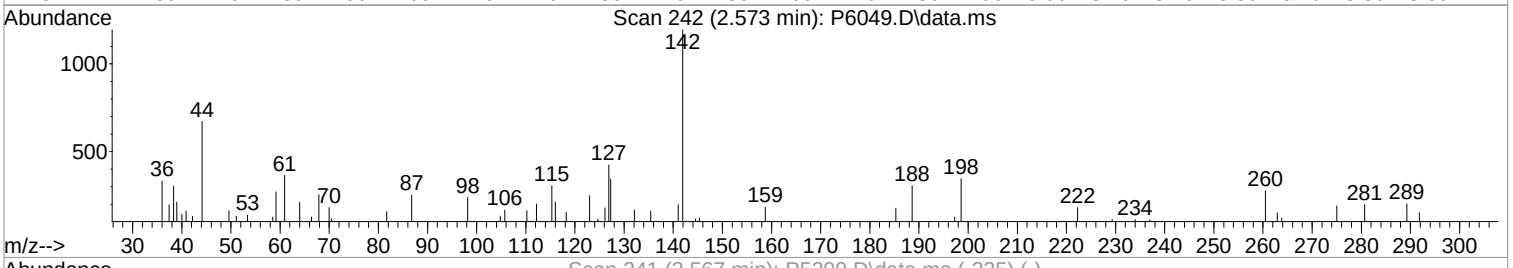
1st 10/31/16
2nd 10/31/16

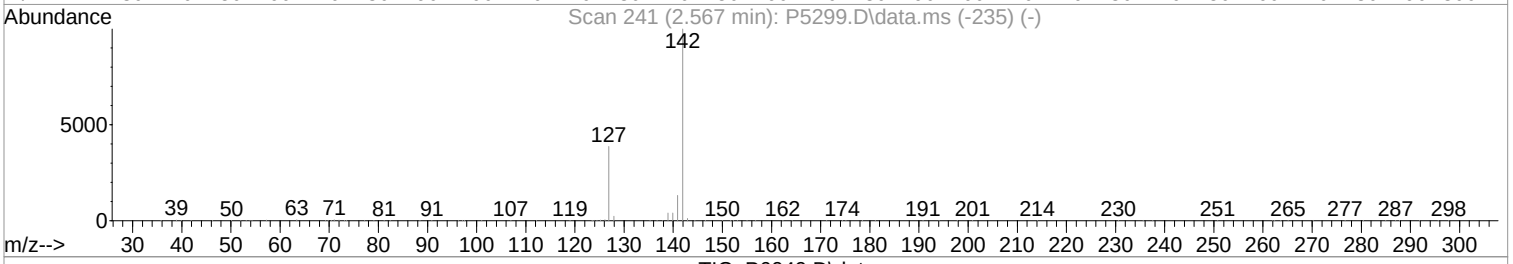
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest
Sample : R16~~11885~~ 11185 034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6049.D\data.ms

(17) Iodomethane

2.573min (+0.006) 0.34 ppb m

response 2454

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	35.56
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

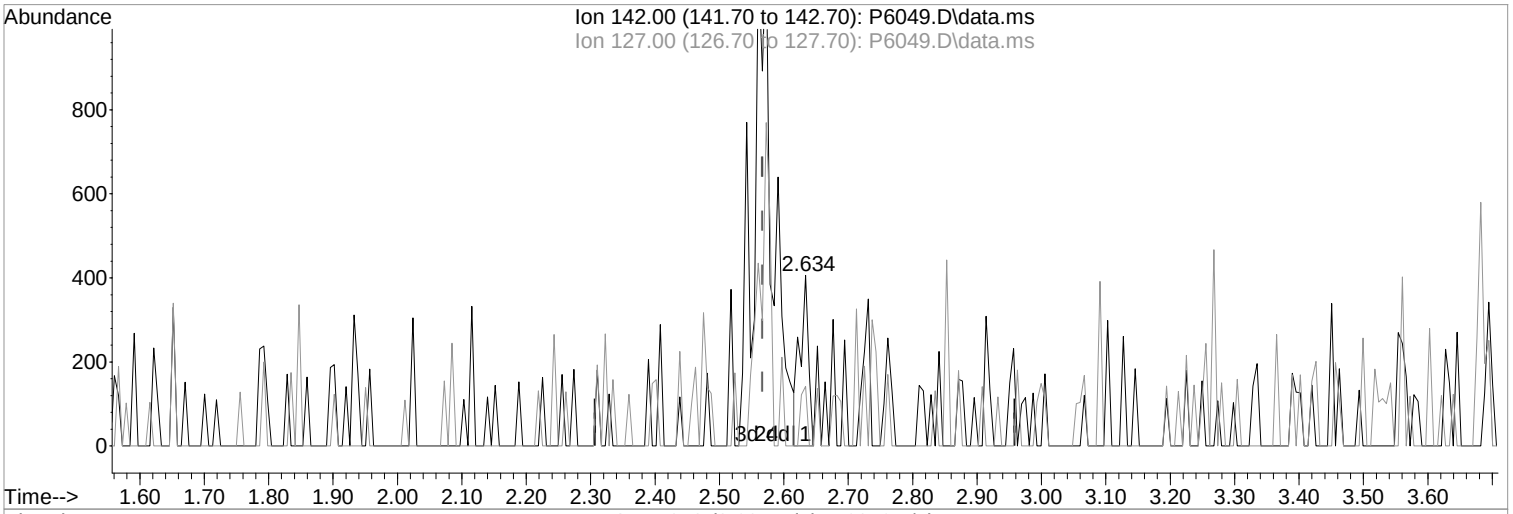
Split Peak

10/31/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest
Sample : R1611885-034|1.0 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6049.D\data.ms

(17) Iodomethane

2.634min (+0.067) 0.05 ppb

response 375

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	34.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

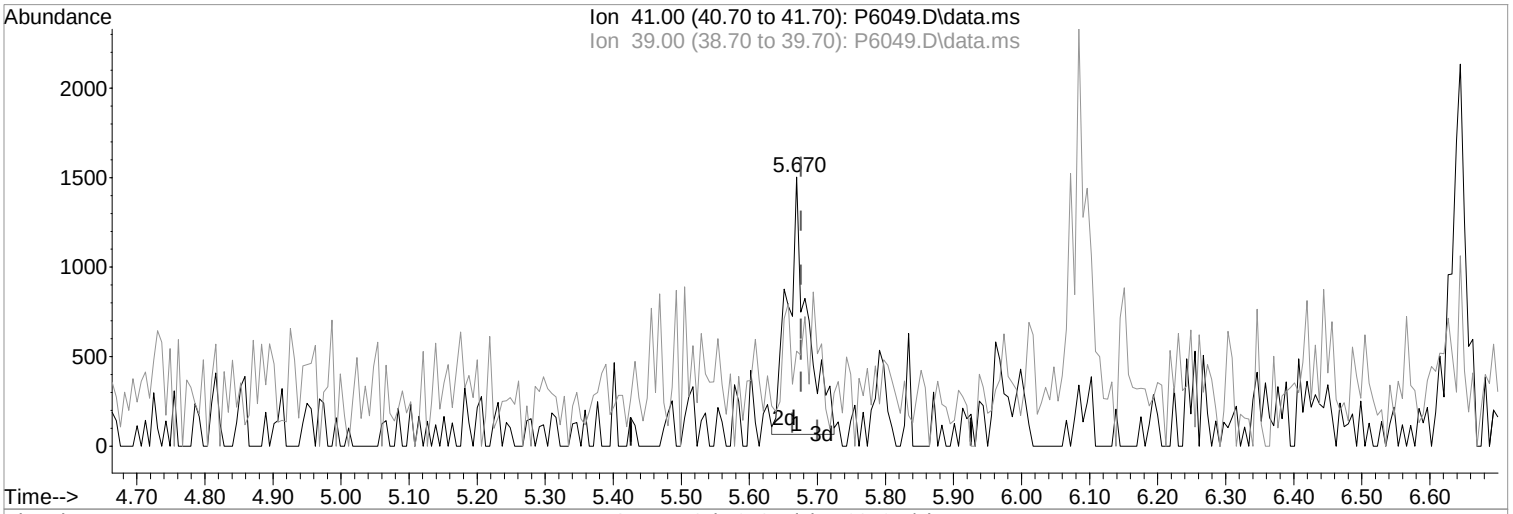
10/31/16

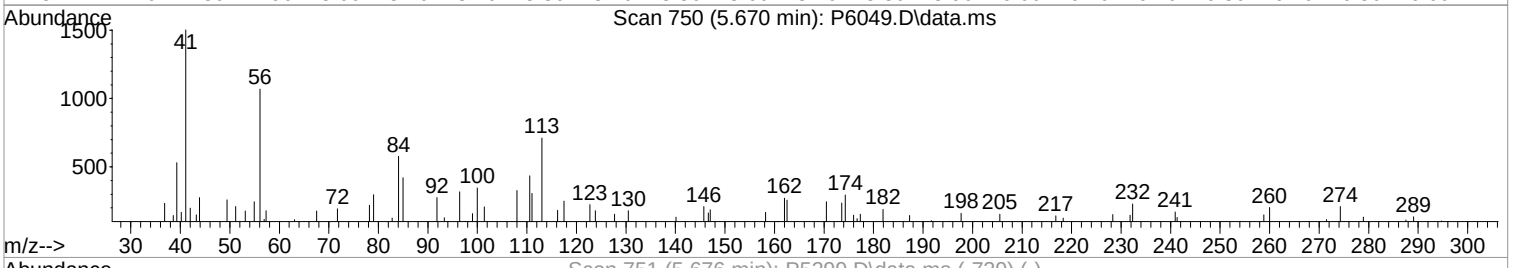
1st 10/31/16
2nd 10/31/16

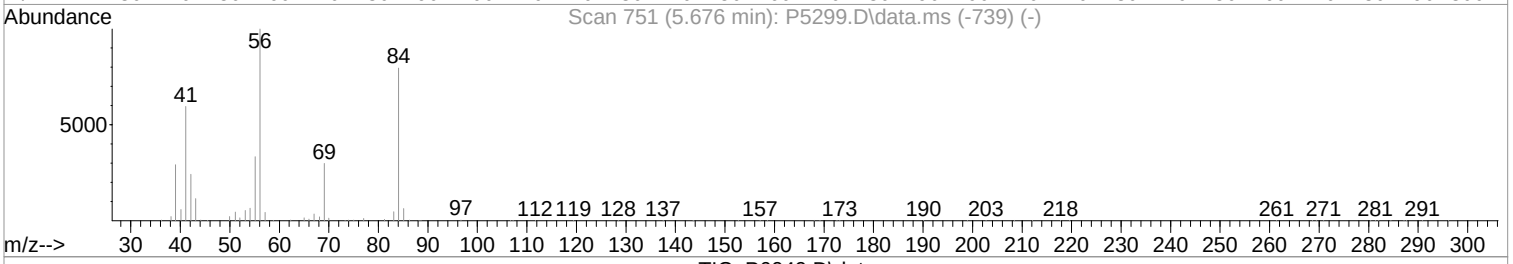
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest
Sample : R1611885-034|1.0 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6049.D\data.ms

(44) Cyclohexane (P)

5.670min (-0.006) 0.42 ppb m

response 2861

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	35.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

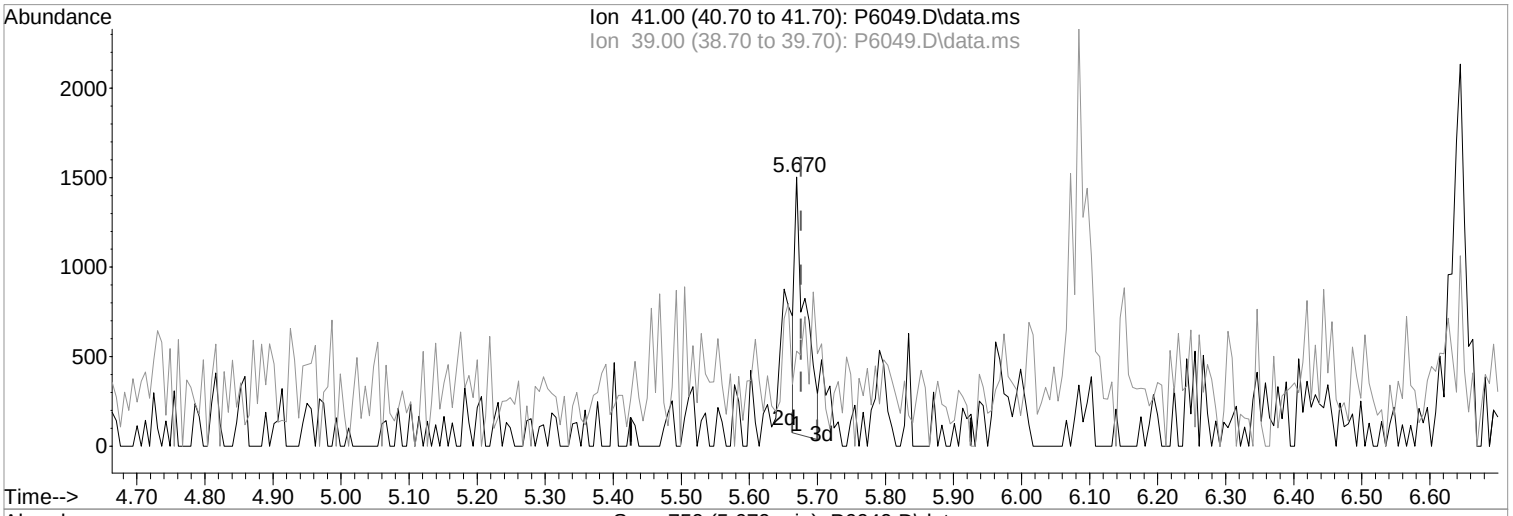
10/31/16

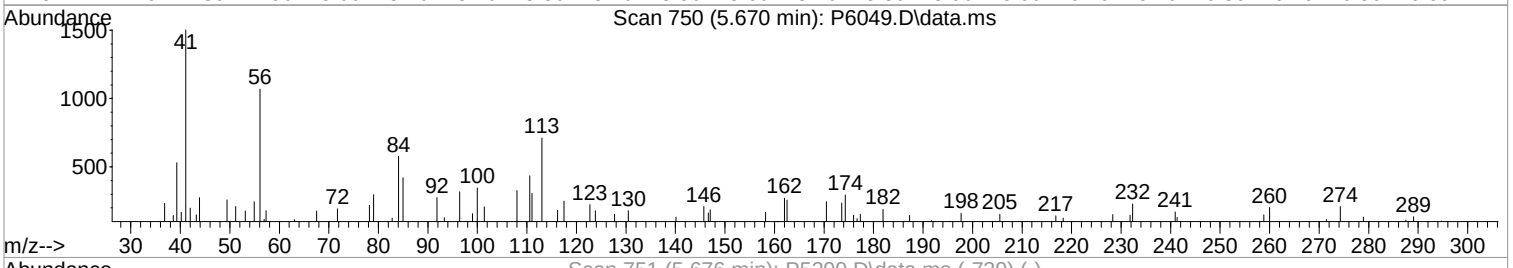
Quantitation Report (Qedit)

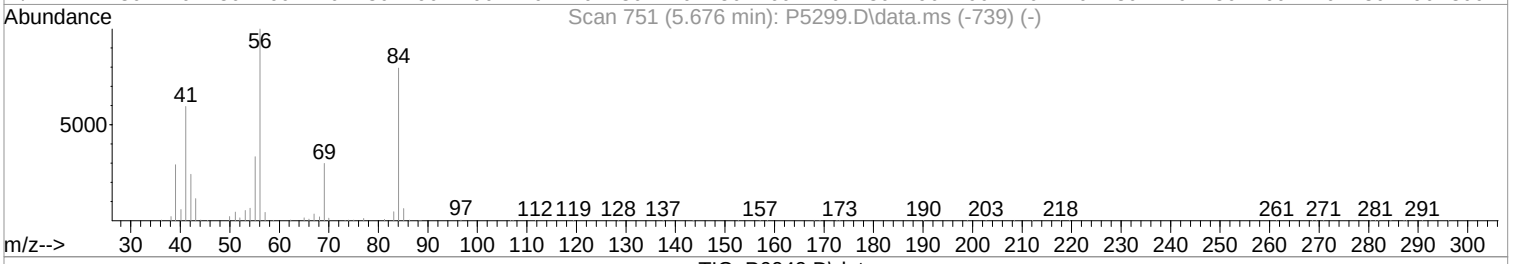
Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest
Sample : R1611885-034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

11185

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6049.D\data.ms

(44) Cyclohexane (P)

5.670min (-0.006) 0.23 ppb

response 1531

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	35.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

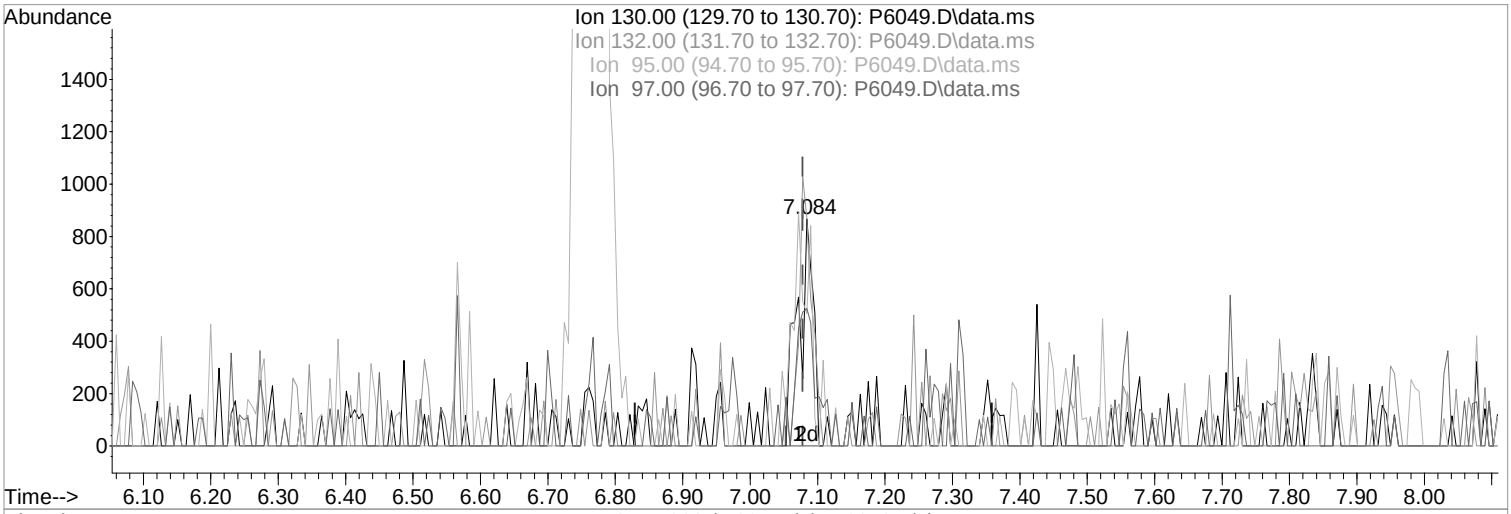
Before

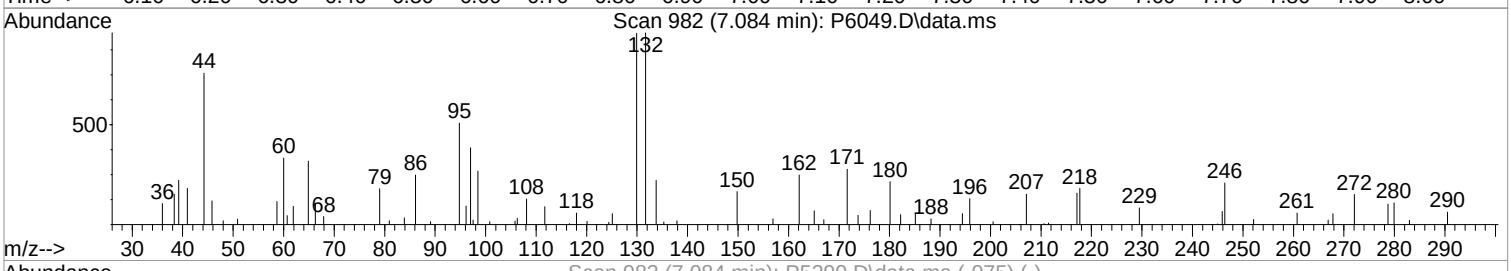
10/31/16

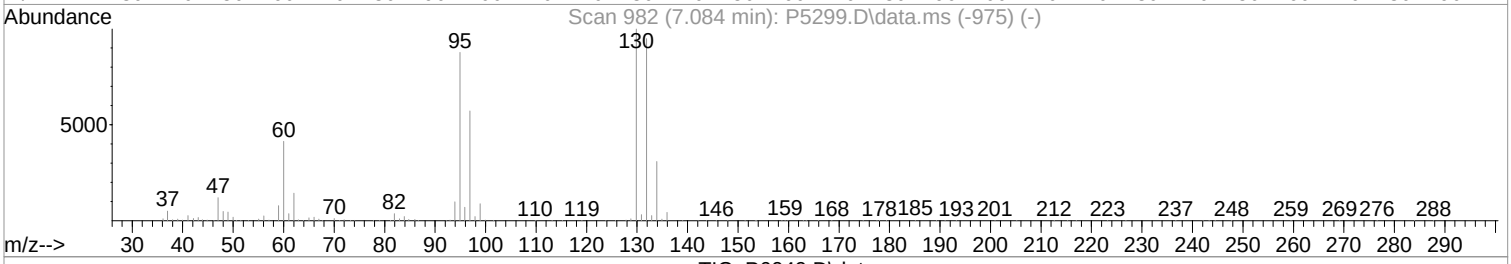
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6049.D\data.ms

(54) Trichloroethene (P)

7.084min (+0.006) 0.21 ppb m

response 1396

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	100.23
95.00	88.10	58.36#
97.00	57.40	46.94

Manual Integration:

After

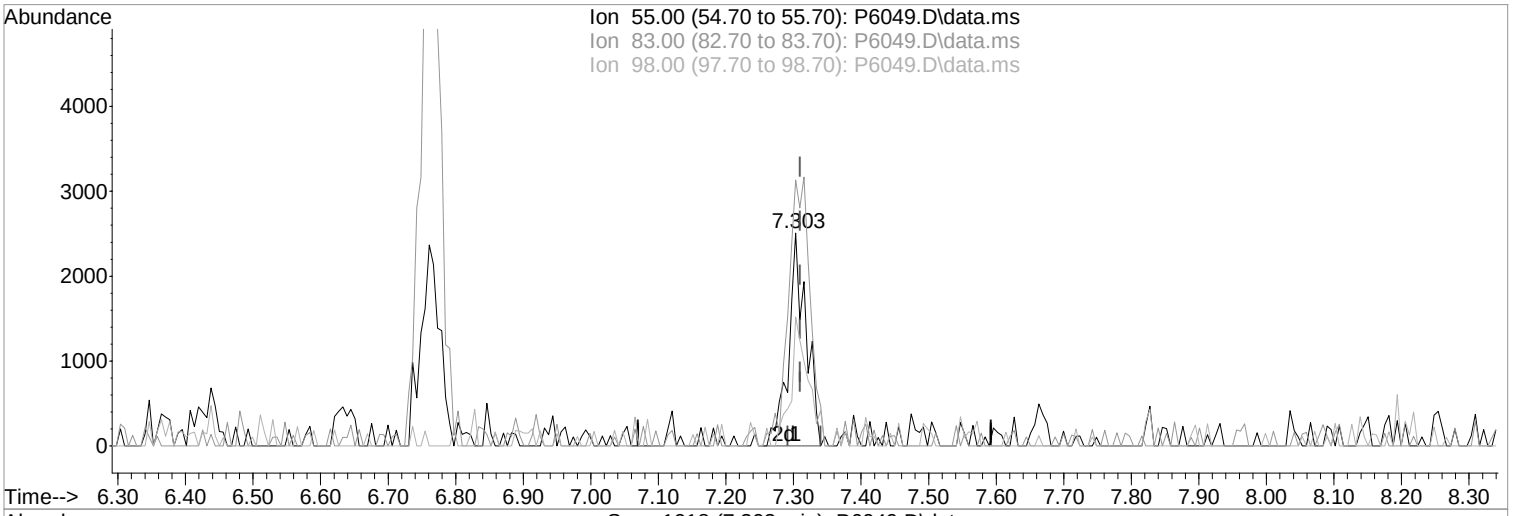
Split Peak

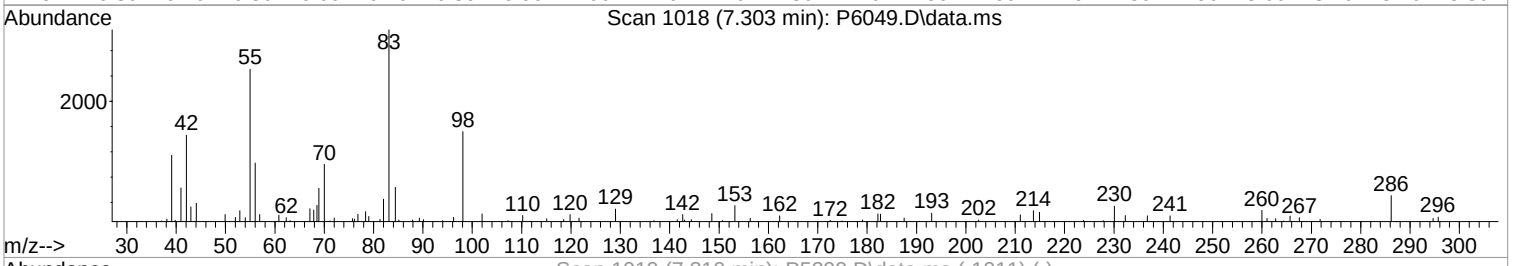
10/31/16

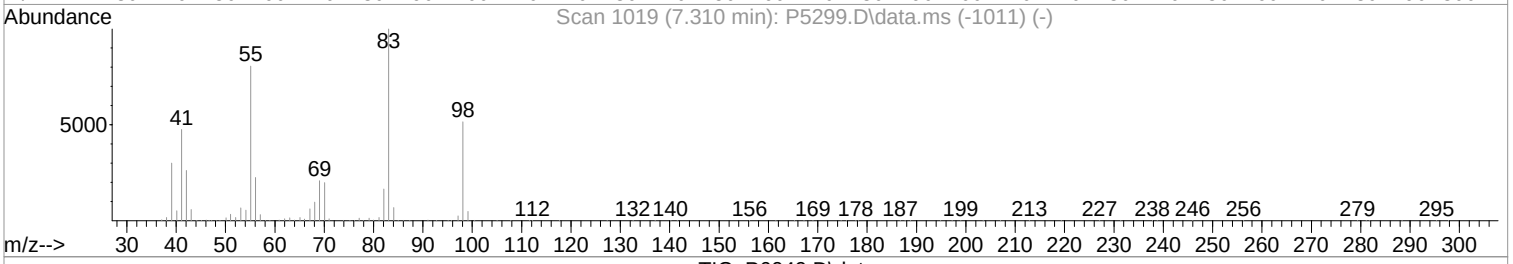
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest 11185
Sample : R16~~11885~~-034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6049.D\data.ms

(55) Methylcyclohexane (P)

7.303min (-0.006) 0.55 ppb m

response 4553

Ion	Exp%	Act%
55.00	100	100
83.00	124.10	124.97
98.00	63.90	60.63
0.00	0.00	0.00

Manual Integration:

After

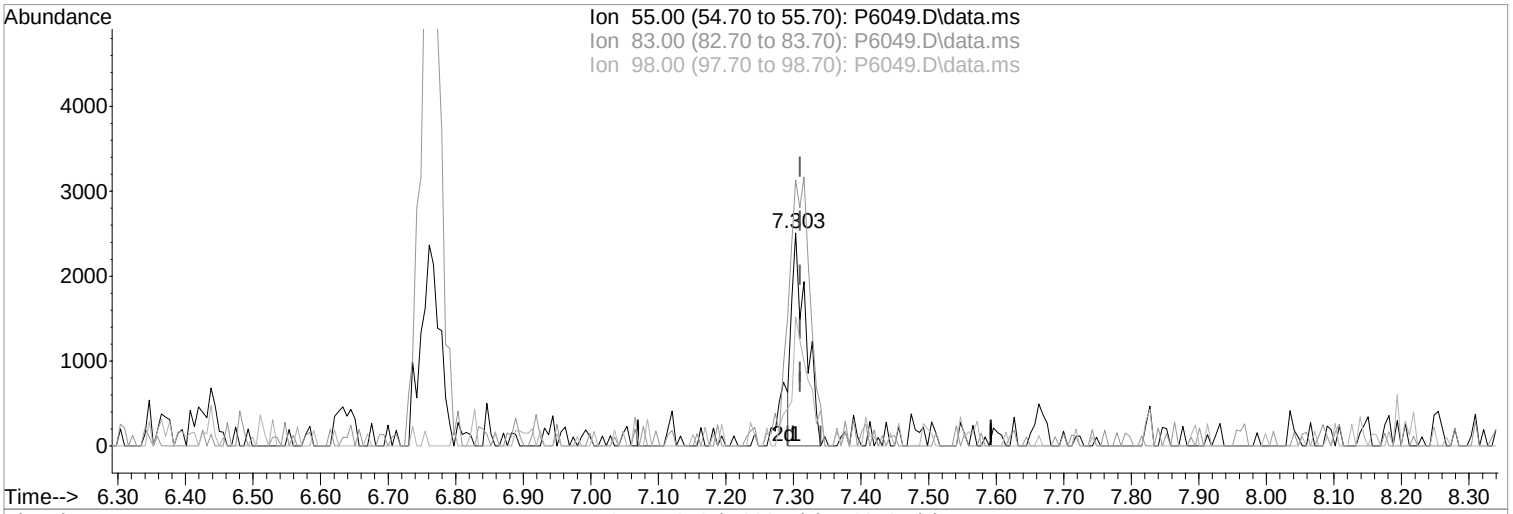
Split Peak

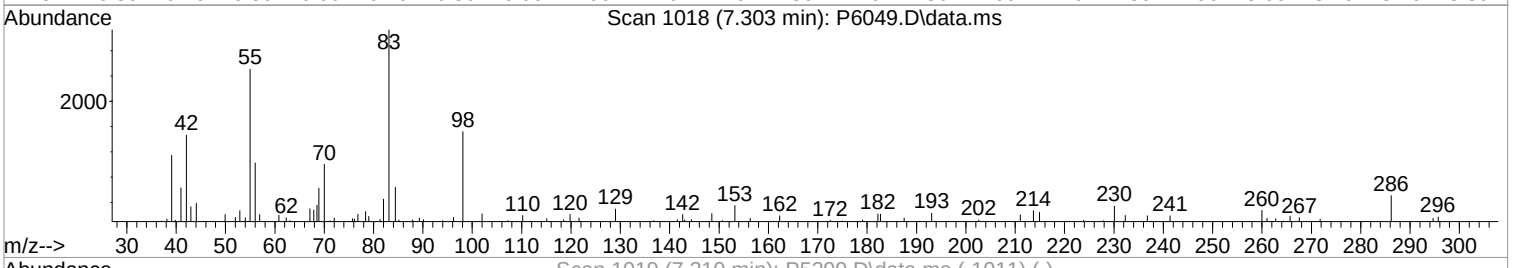
10/31/16

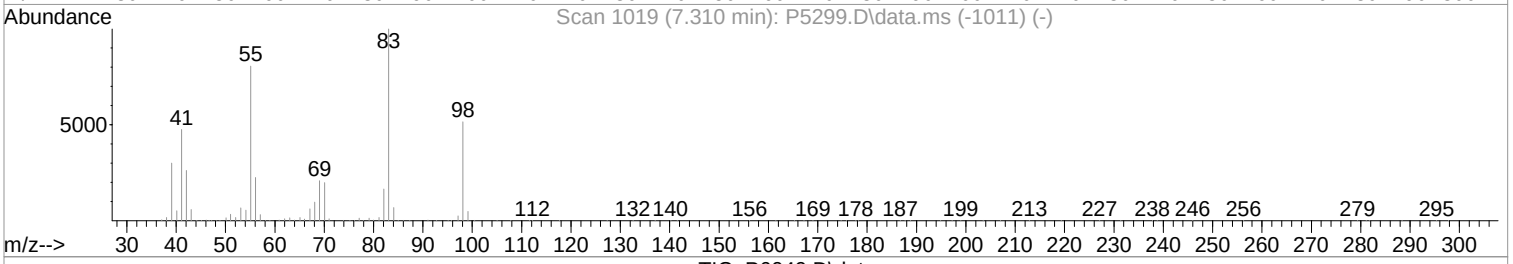
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest 11185
Sample : R161~~1885~~-034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 13:20:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6049.D\data.ms

(55) Methylcyclohexane (P)

7.303min (-0.006) 0.45 ppb

response 3712

Ion	Exp%	Act%
55.00	100	100
83.00	124.10	124.97
98.00	63.90	60.63
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest 11185
Sample : R1611885-034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 31 10:33:34 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

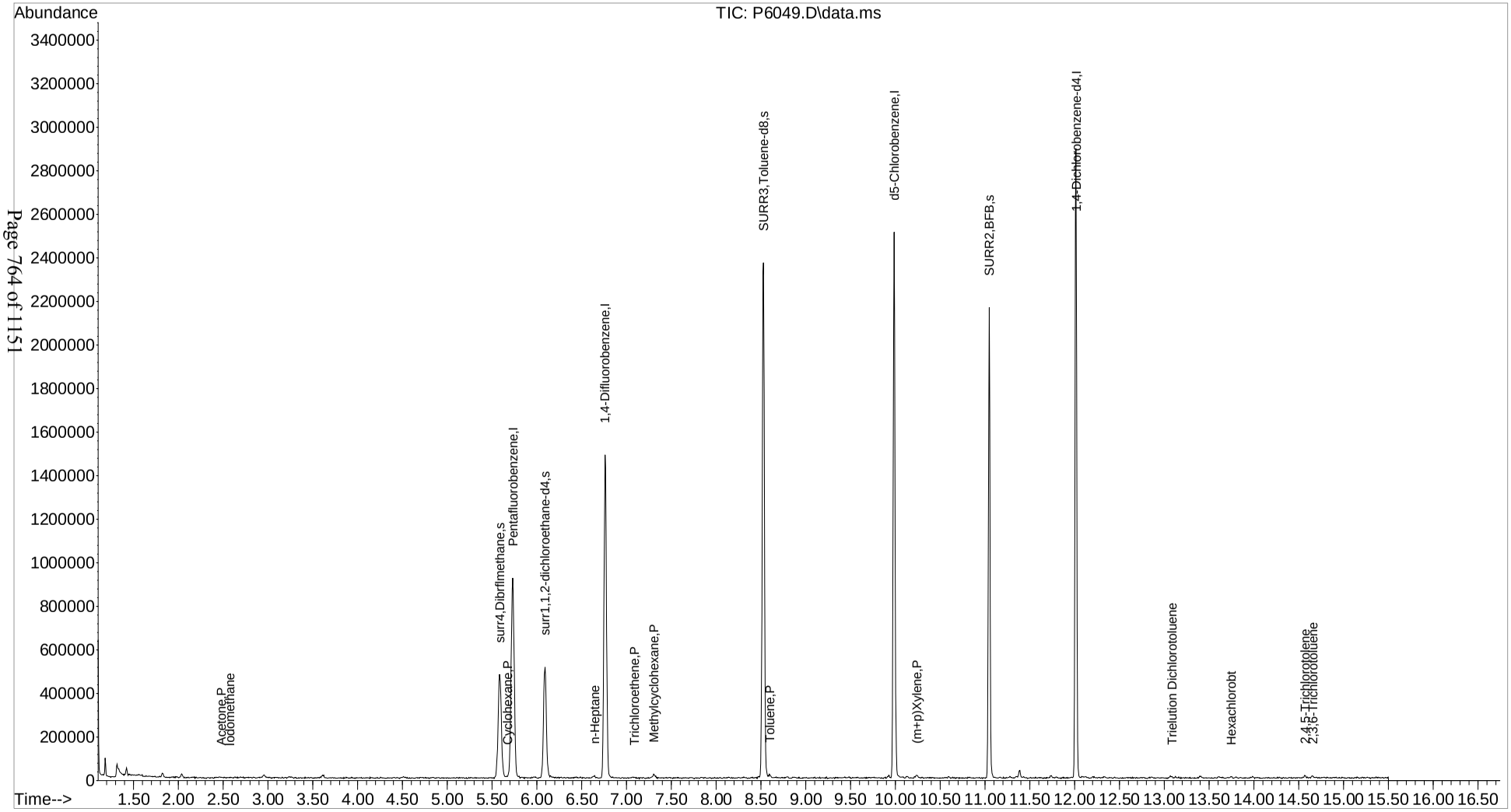
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	777914	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1259714	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1177907	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	590945	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	364387	54.20	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.40%				
48) surr1,1,2-dichloroetha...	6.090	65	404747	53.00	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.00%				
65) SURR3,Toluene-d8	8.529	98	1485269	53.91	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.82%				
70) SURR2,BFB	11.047	95	562183	52.30	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.60%				
Target Compounds							Qvalue
15) Acetone	2.475	43	1473	1.16	ppb		68
17) Iodomethane	2.573	142	2454m	0.34	ppb		
44) Cyclohexane	5.670	41	2861m	0.42	ppb		
52) n-Heptane	6.645	43	4855	0.58	ppb		97
54) Trichloroethene	7.084	130	1396m	0.21	ppb		
55) Methylcyclohexane	7.303	55	4553m	0.55	ppb		
66) Toluene	8.596	91	8201	0.32	ppb		98
83) (m+p)Xylene	10.236	106	2643	0.23	ppb		88
112) Trielution Dichlorotol...	13.083	125	3910	0.34	ppb	#	66
116) Hexachlorobt	13.747	225	797	0.21	ppb		85
119) 2,4,5-Trichlorotolene	14.570	159	2367	0.43	ppb	#	37
120) 2,3,6-Trichlorotoluene	14.656	159	1754	0.34	ppb	#	72

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

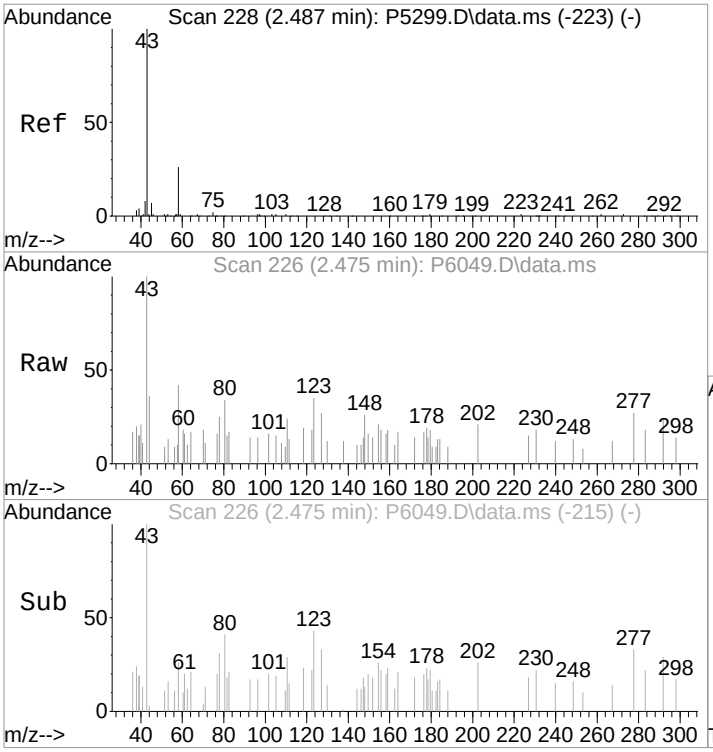
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6049.D
Acq On : 28 Oct 2016 12:43 pm
Operator : K.Ruest
Sample : R1611885-034|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 31 10:33:34 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



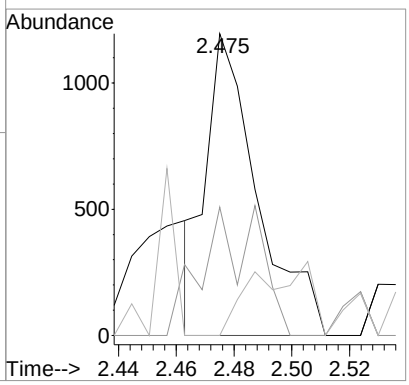
1st 10/31/16
2nd 10/31/16

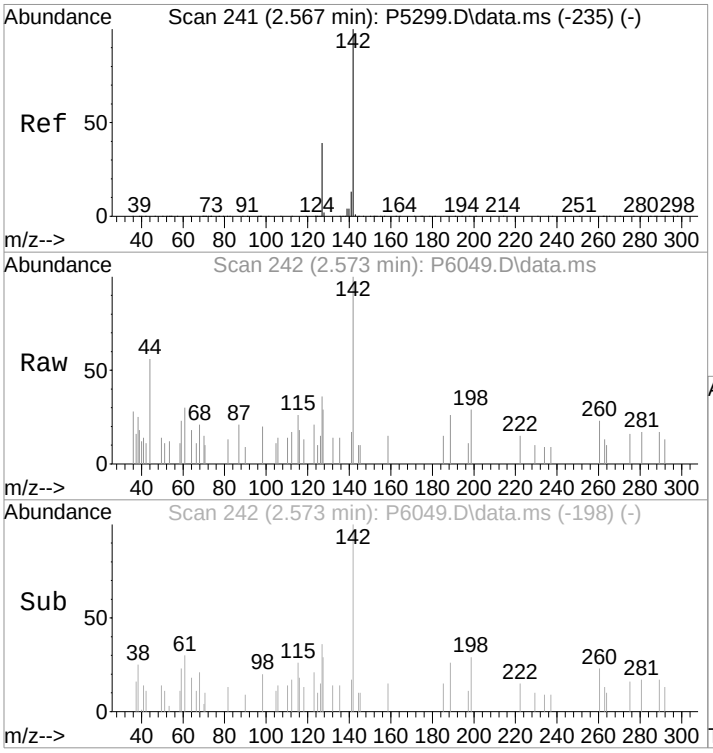


#15
Acetone
Concen: 1.16 ppb
RT: 2.475 min Scan# 226
Delta R.T. -0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion: 43 Resp: 1473

Ion	Ratio	Lower	Upper
43	100		
58	42.5	5.3	45.3
42	0.0	0.0	28.7

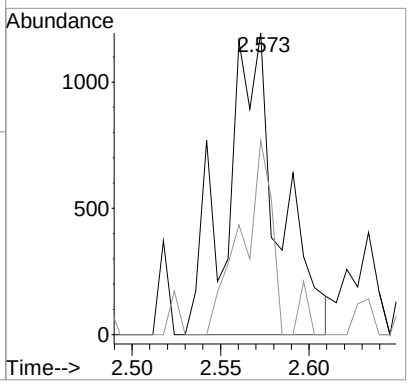


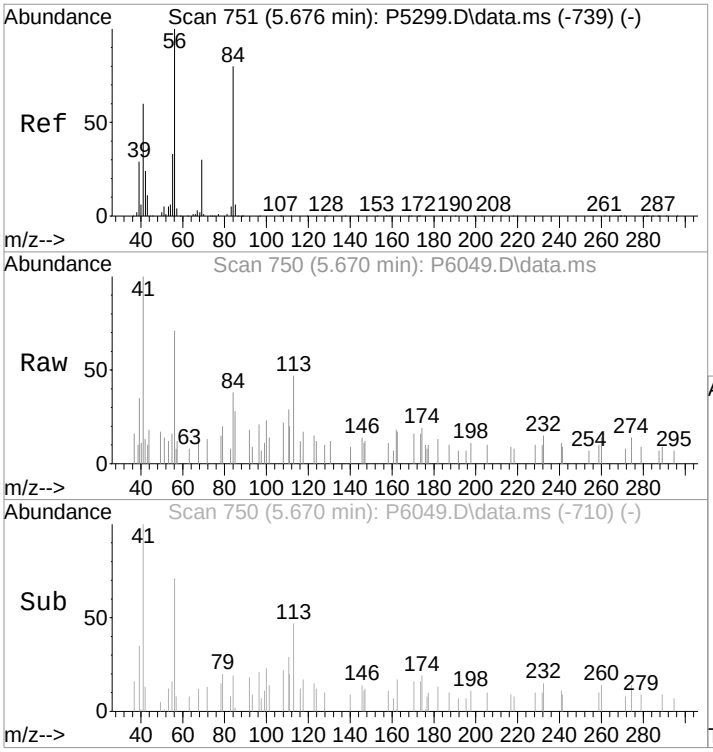


#17
Iodomethane
Concen: 0.34 ppb m
RT: 2.573 min Scan# 242
Delta R.T. 0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:142 Resp: 2454

Ion	Ratio	Lower	Upper
142	100		
127	35.6	18.7	58.7

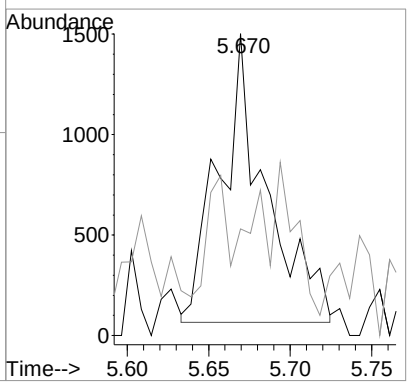


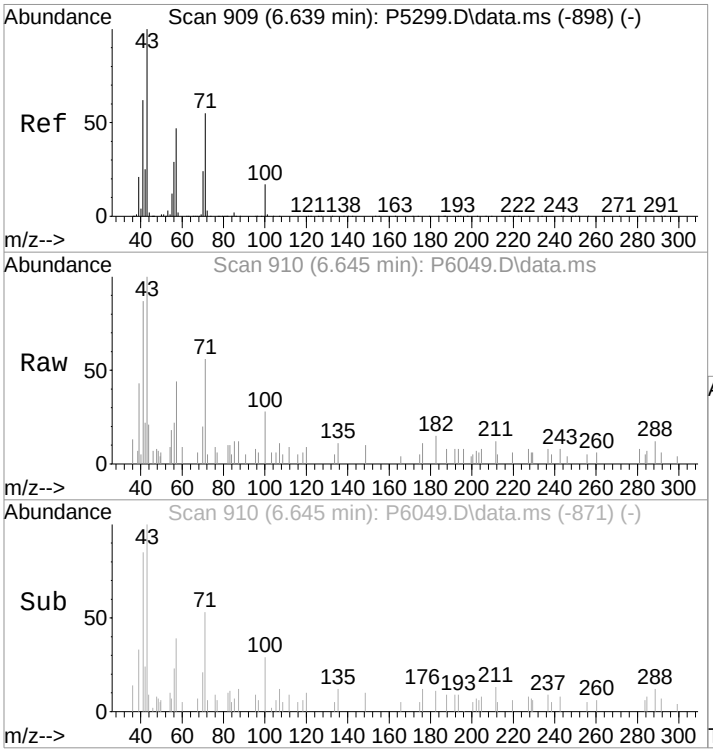


#44
Cyclohexane
Concen: 0.42 ppb m
RT: 5.670 min Scan# 750
Delta R.T. -0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion: 41 Resp: 2861

Ion	Ratio	Lower	Upper
41	100		
39	35.3	29.0	69.0

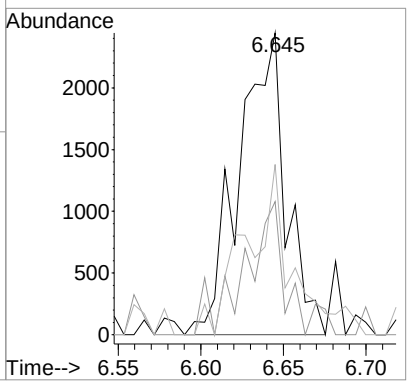


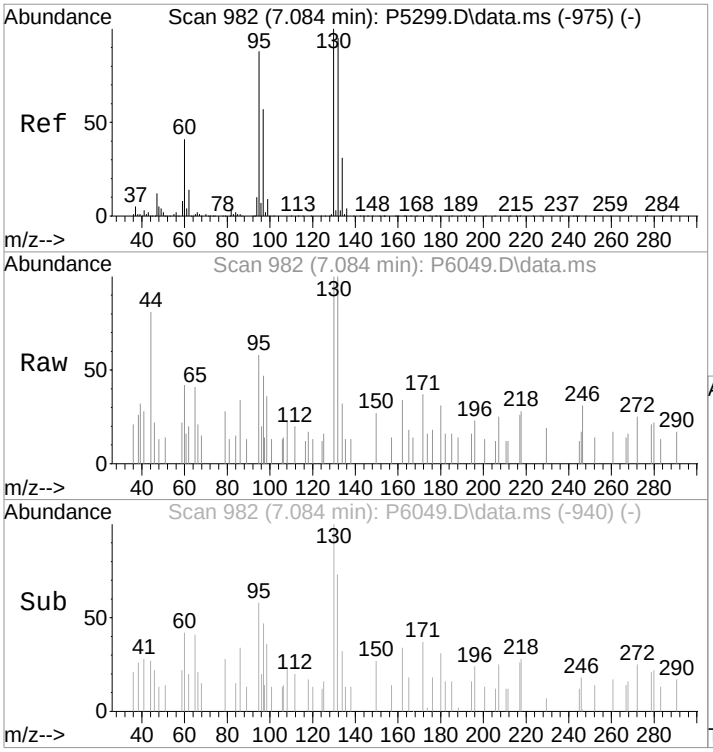


#52
n-Heptane
Concen: 0.58 ppb
RT: 6.645 min Scan# 910
Delta R.T. -0.000 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion: 43 Resp: 4855

Ion	Ratio	Lower	Upper
43	100		
57	44.1	26.8	66.8
71	56.4	34.8	74.8

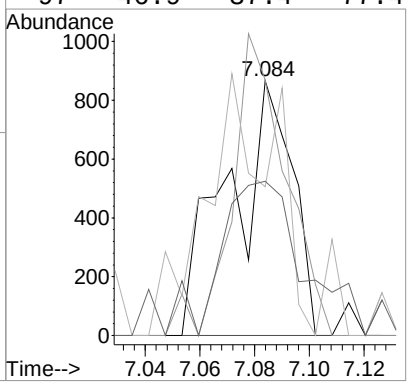


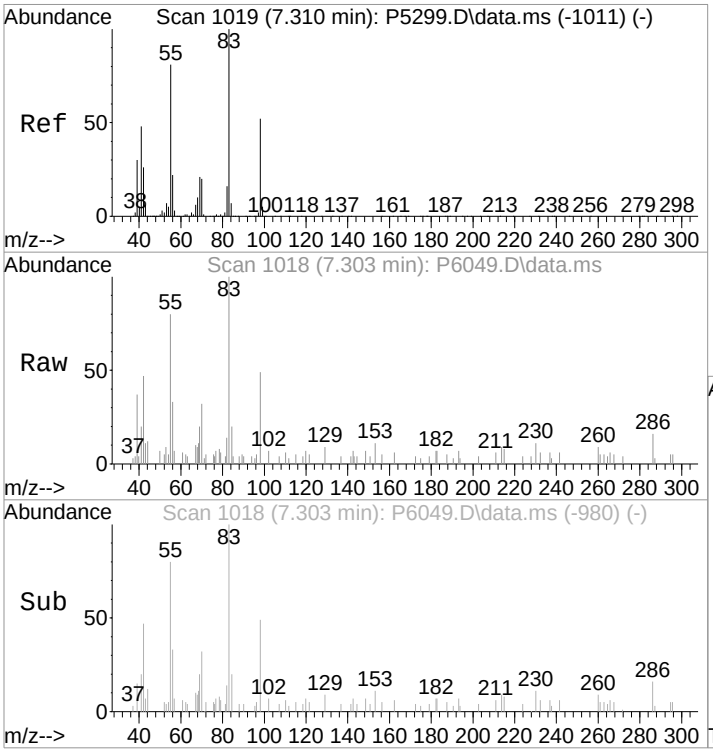


#54
Trichloroethene
Concen: 0.21 ppb m
RT: 7.084 min Scan# 982
Delta R.T. 0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:130 Resp: 1396

Ion	Ratio	Lower	Upper
130	100		
132	100.2	75.2	115.2
95	58.4	68.1	108.1#
97	46.9	37.4	77.4

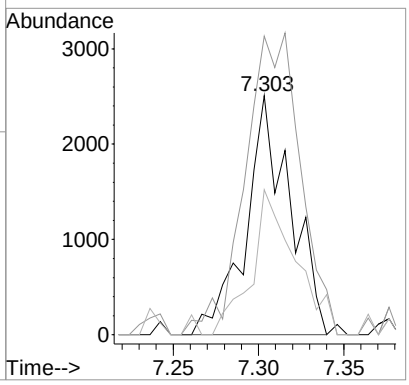


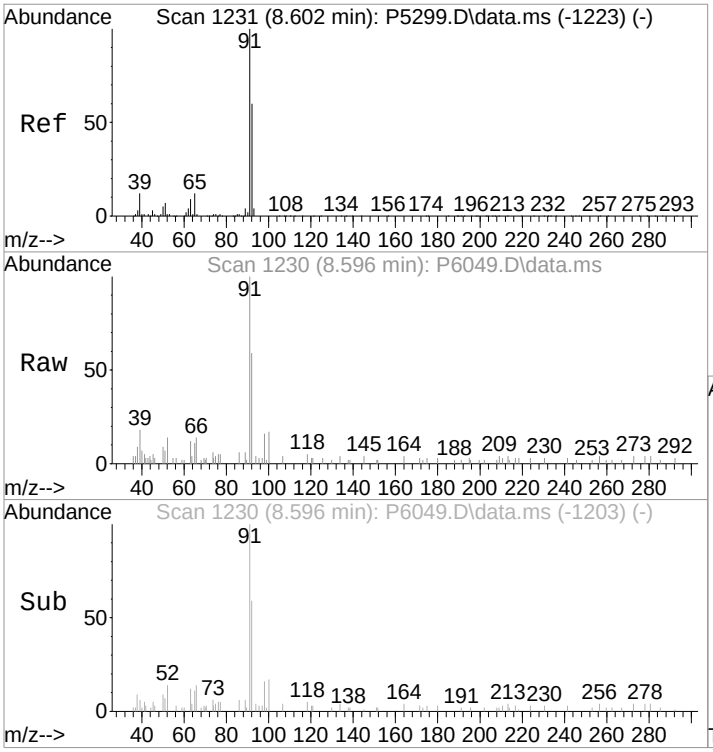


#55
Methylcyclohexane
Concen: 0.55 ppb m
RT: 7.303 min Scan# 1018
Delta R.T. -0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion: 55 Resp: 4553

Ion	Ratio	Lower	Upper
55	100		
83	125.0	104.1	144.1
98	60.6	43.9	83.9

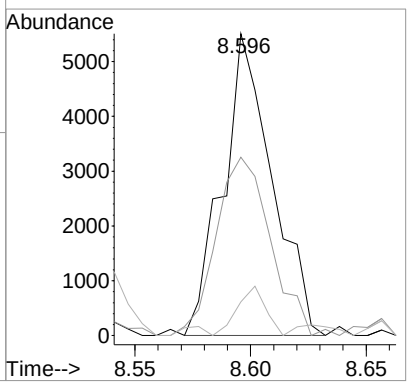


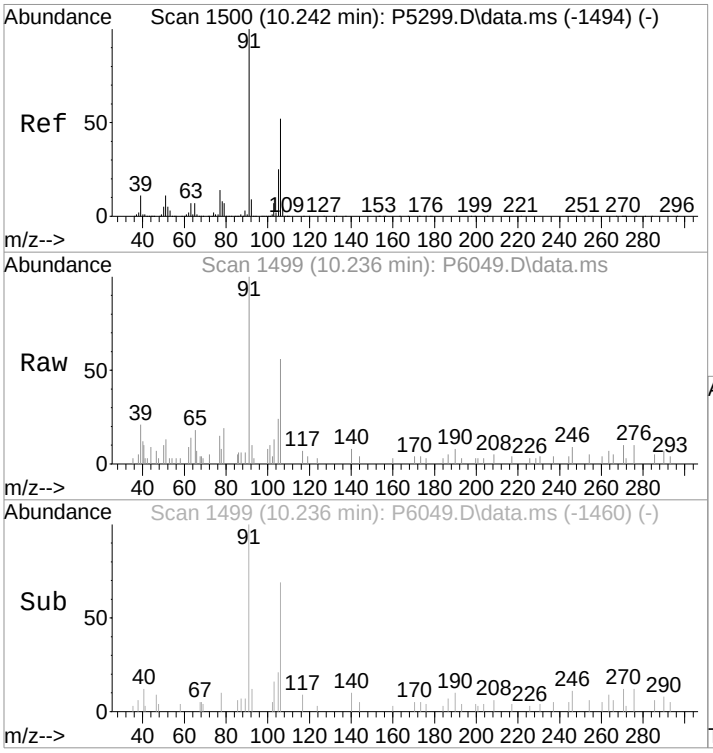


#66
Toluene
Concen: 0.32 ppb
RT: 8.596 min Scan# 1230
Delta R.T. -0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion: 91 Resp: 8201

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.0	80.0
65	11.2	0.0	32.3

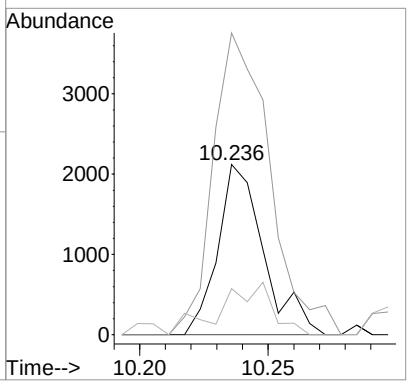


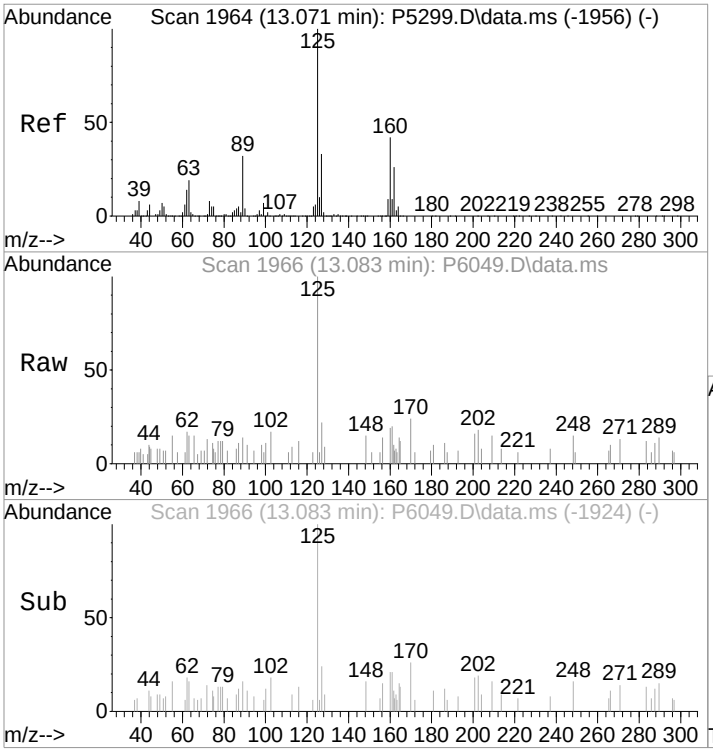


#83
(m+p)Xylene
Concen: 0.23 ppb
RT: 10.236 min Scan# 1499
Delta R.T. -0.012 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:106 Resp: 2643

Ion	Ratio	Lower	Upper
106	100		
91	177.4	172.2	212.2
77	41.9	6.7	46.7

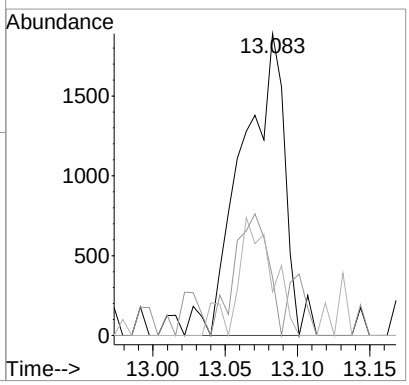


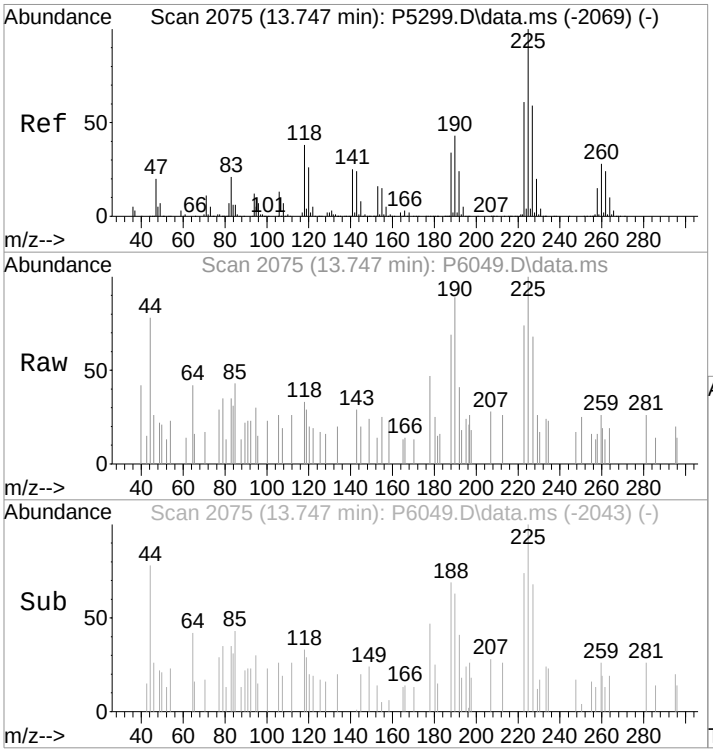


#112
Trielution Dichlorotoluene
Concen: 0.34 ppb
RT: 13.083 min Scan# 1966
Delta R.T. 0.006 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:125 Resp: 3910

Ion	Ratio	Lower	Upper
125	100		
160	19.3	33.6	50.4#
89	14.4	25.8	38.8#

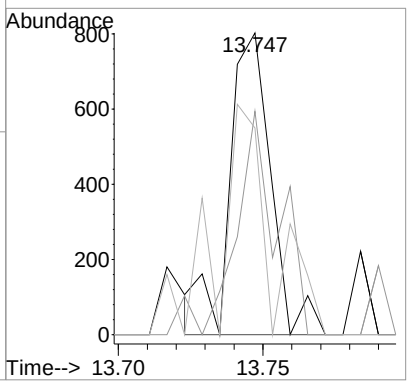


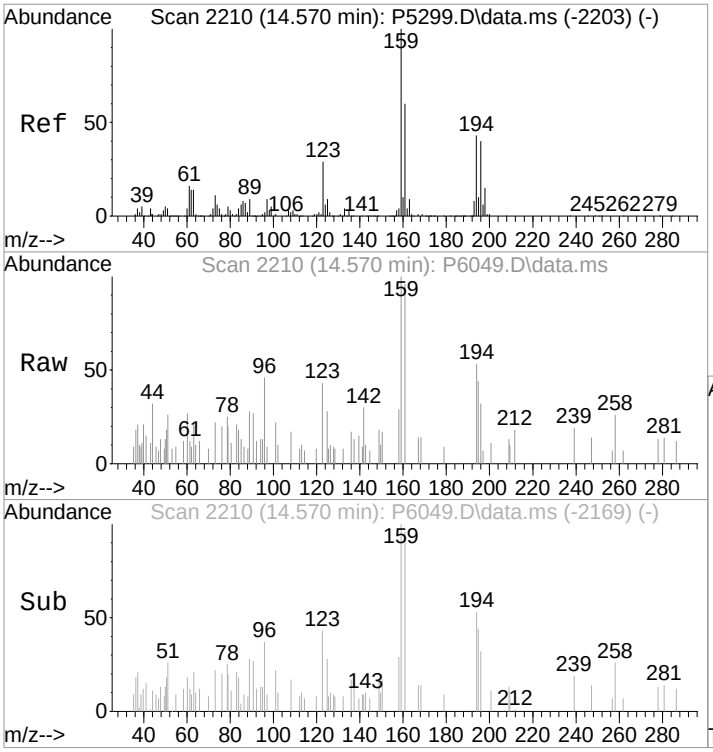


#116
Hexachlorobt
Concen: 0.21 ppb
RT: 13.747 min Scan# 2075
Delta R.T. -0.000 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:225 Resp: 797

Ion	Ratio	Lower	Upper
225	100		
223	74.0	41.4	81.4
227	68.5	39.1	79.1

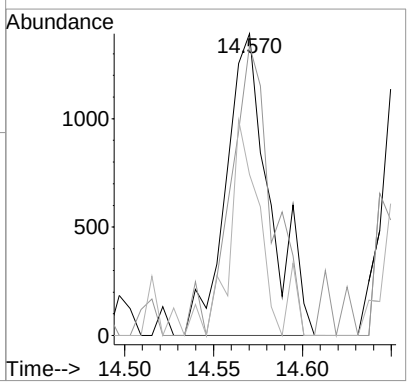


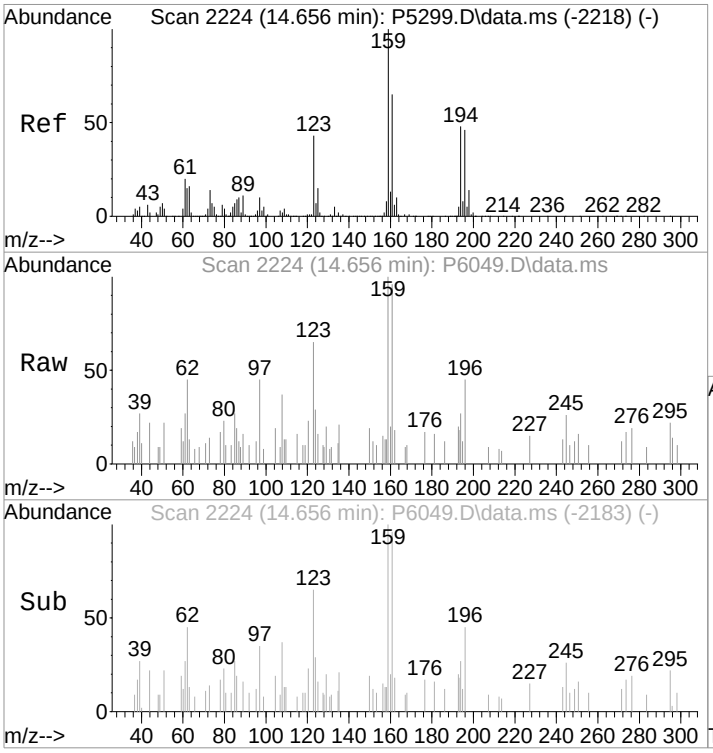


#119
2,4,5-Trichlorotolene
Concen: 0.43 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:159 Resp: 2367

Ion	Ratio	Lower	Upper
159	100		
161	96.0	48.1	72.1#
194	97.1	34.5	51.7#

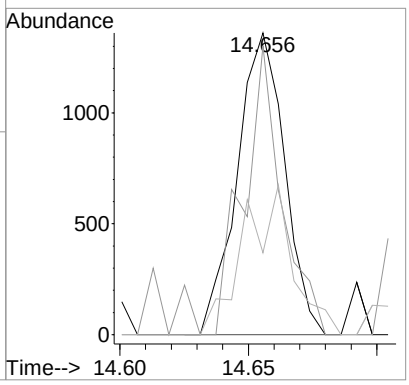




#120
2,3,6-Trichlorotoluene
Concen: 0.34 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6049.D
Acq: 28 Oct 2016 12:43 pm

Tgt Ion:159 Resp: 1754

Ion	Ratio	Lower	Upper
159	100		
161	95.7	52.3	78.5#
194	39.2	38.6	57.8

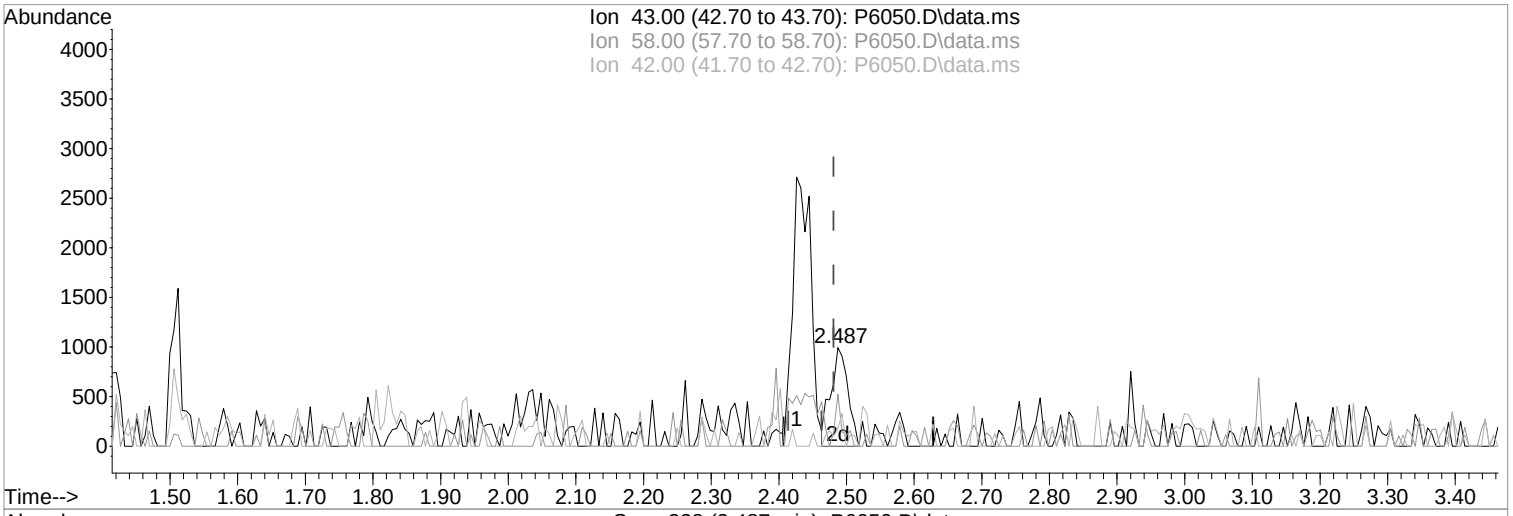


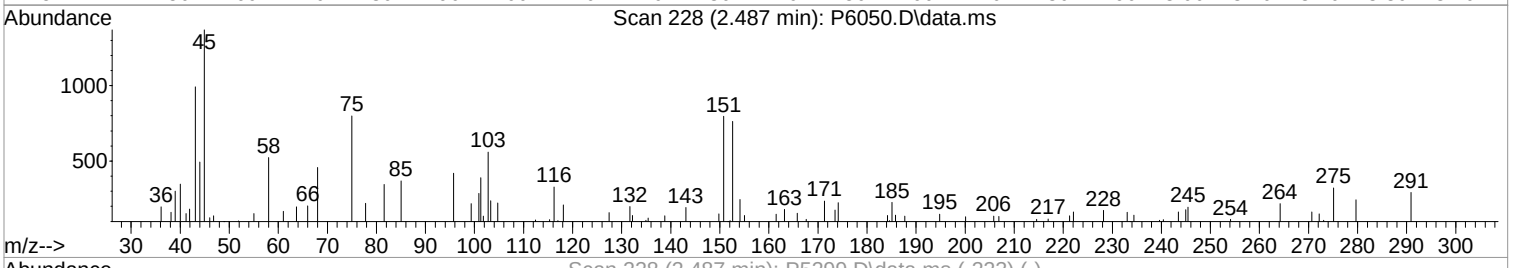
1st 10/31/16
2nd 10/31/16

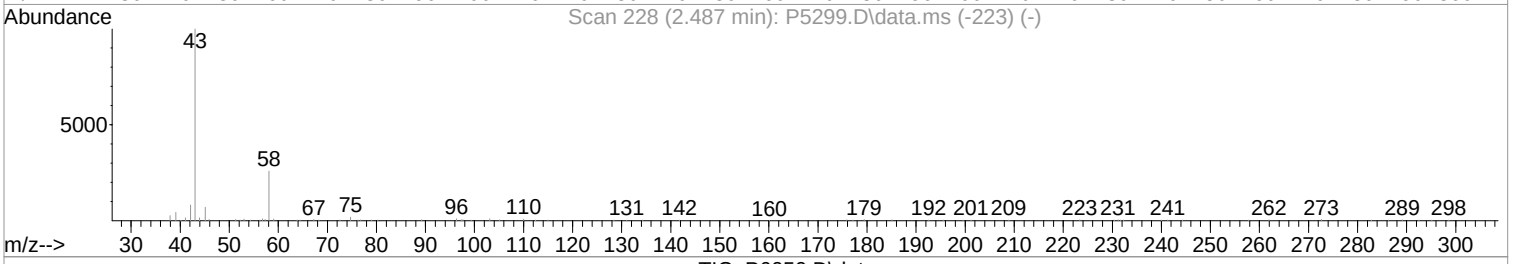
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6050.D
Acq On : 28 Oct 2016 1:13 pm
Operator : K.Ruest
Sample : R1611885-035|1.0 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 28 13:32:07 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6050.D\data.ms

(15) Acetone (P)

2.487min (+0.006) 1.38 ppb m

response 1749

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	52.62#
42.00	8.70	18.25
0.00	0.00	0.00

Manual Integration:

After

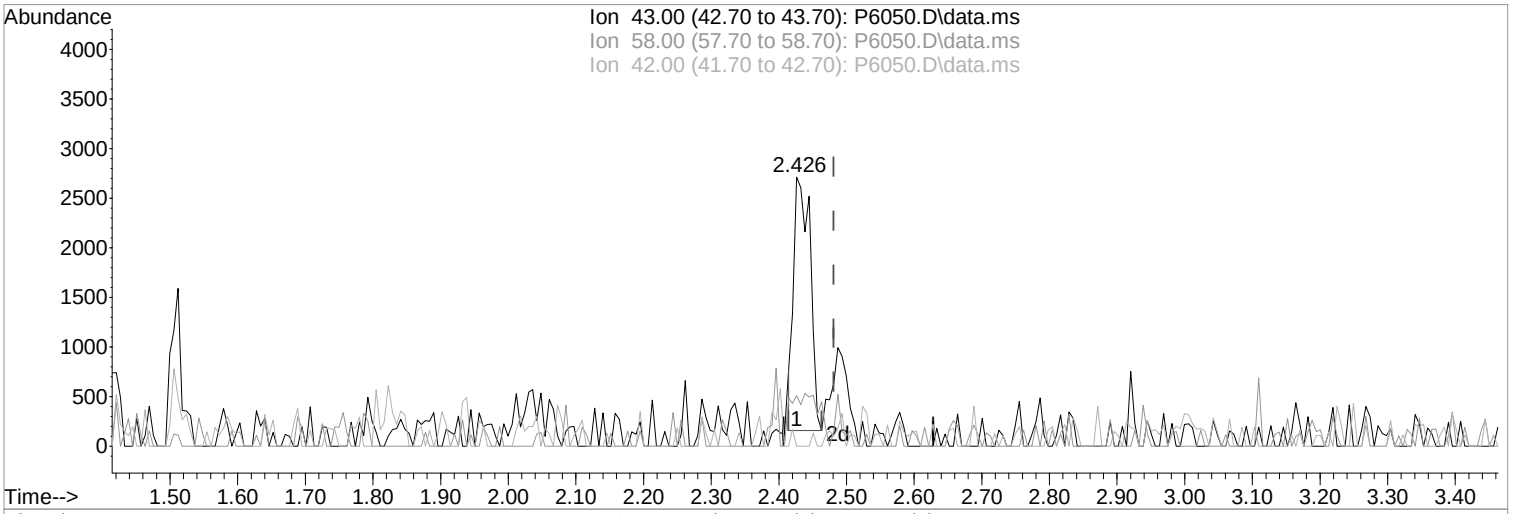
Wrong peak selected.

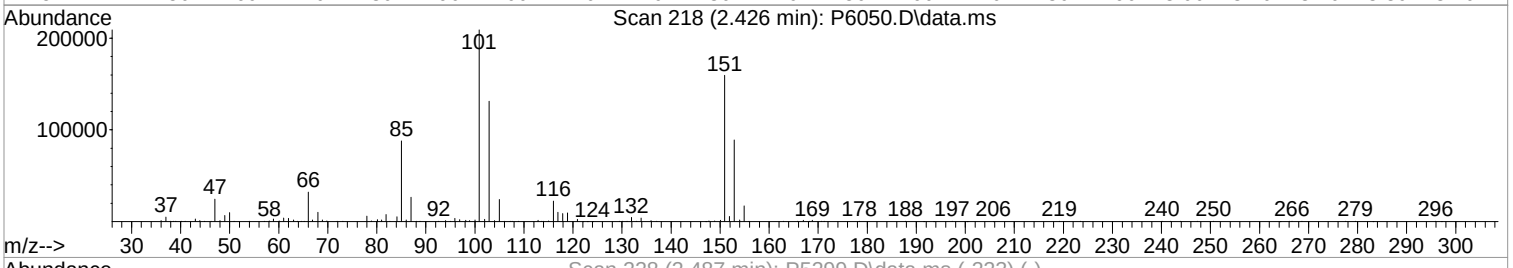
10/31/16

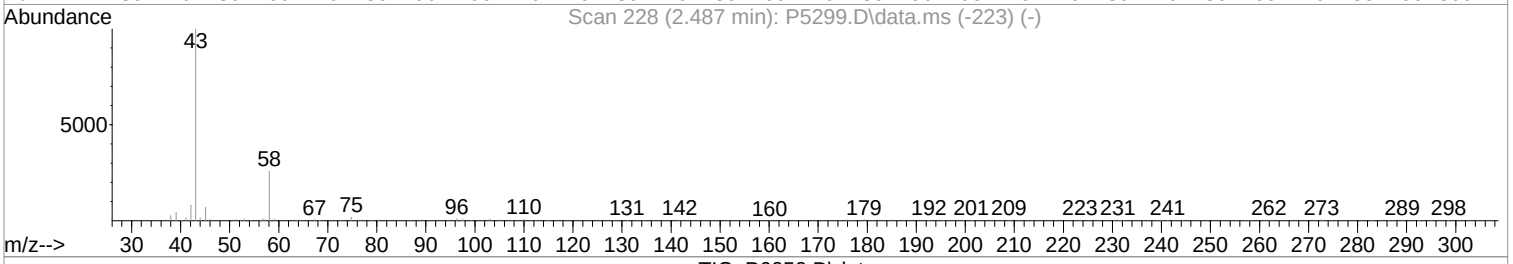
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6050.D
Acq On : 28 Oct 2016 1:13 pm
Operator : K.Ruest 11185
Sample : R1611885-035|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 28 13:32:07 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6050.D\data.ms

(15) Acetone (P)

2.426min (-0.055) 3.39 ppb

response 4280

Ion	Exp%	Act%
43.00	100	100
58.00	25.30	18.80
42.00	8.70	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6050.D
Acq On : 28 Oct 2016 1:13 pm
Operator : K.Ruest
Sample : R1611885-035|1.0 11185 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 31 10:36:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

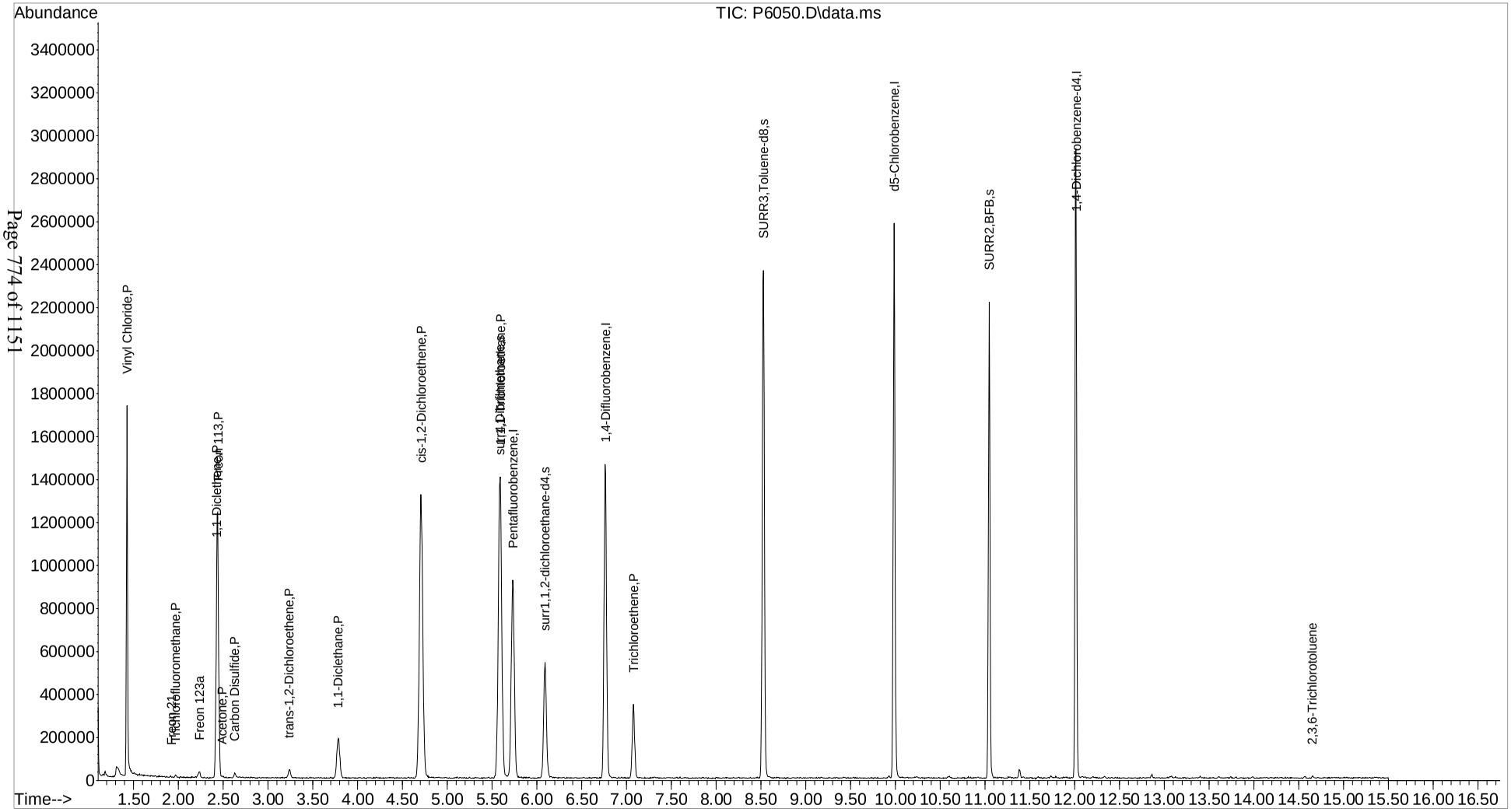
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	774750	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1251439	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1144635	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	592359	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	364638	54.59	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.18%				
48) surr1,1,2-dichloroetha...	6.090	65	414761	54.67	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.34%				
65) SURR3,Toluene-d8	8.529	98	1477289	53.98	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.96%				
70) SURR2,BFB	11.047	95	576096	53.95	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.90%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.427	62	945206	154.21	ppb		99
7) Freon 21	1.920	67	2078	0.26	ppb		89
8) Trichlorofluoromethane	1.969	101	6210	0.88	ppb		95
10) Freon 123a	2.237	67	10221	2.07	ppb		81
13) 1,1-Diclethene	2.426	96	4915	0.91	ppb	#	62
14) Freon 113	2.439	101	473677	82.92	ppb		99
15) Acetone	2.487	43	1749m	1.38	ppb		
18) Carbon Disulfide	2.628	76	26170	1.54	ppb		93
26) trans-1,2-Dichloroethene	3.237	96	15115	2.50	ppb		99
28) 1,1-Diclethane	3.780	63	210962	20.97	ppb		99
34) cis-1,2-Dichloroethene	4.706	96	829955	134.25	ppb		93
41) 1,1,1-Trichloroethane	5.590	97	799345	88.50	ppb		97
54) Trichloroethene	7.078	130	116554	17.64	ppb		93
120) 2,3,6-Trichlorotoluene	14.650	159	1688	0.33	ppb	#	54

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

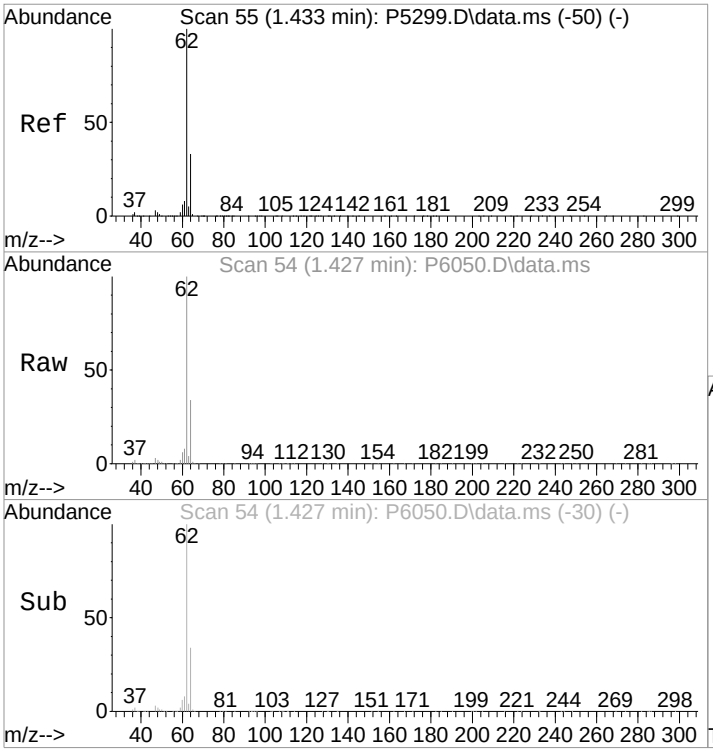
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6050.D
Acq On : 28 Oct 2016 1:13 pm
Operator : K.Ruest
Sample : R1611885-035|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 31 10:36:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



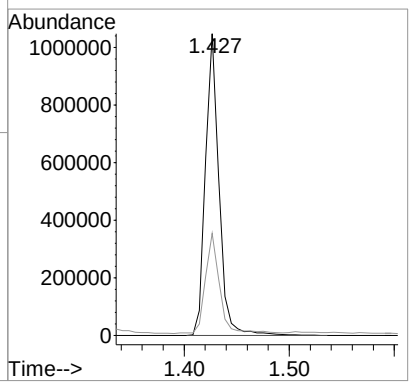
1st 10/31/16
2nd 10/31/16

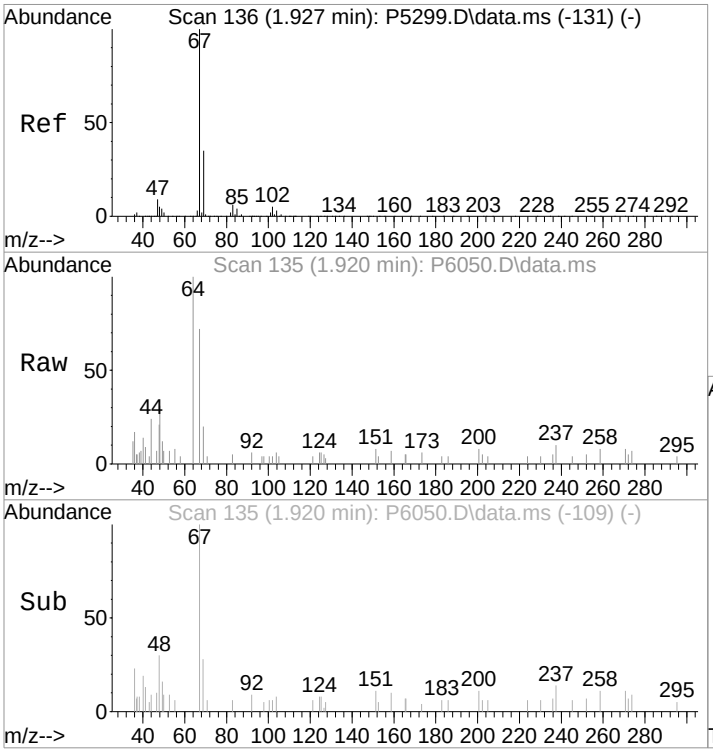


#4
Vinyl Chloride
Concen: 154.21 ppb
RT: 1.427 min Scan# 54
Delta R.T. -0.000 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 62 Resp: 945206

Ion	Ratio	Lower	Upper
62	100		
64	33.8	13.1	53.1

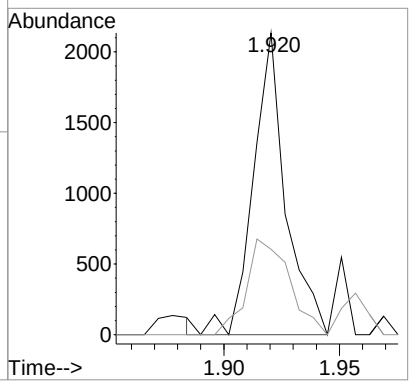


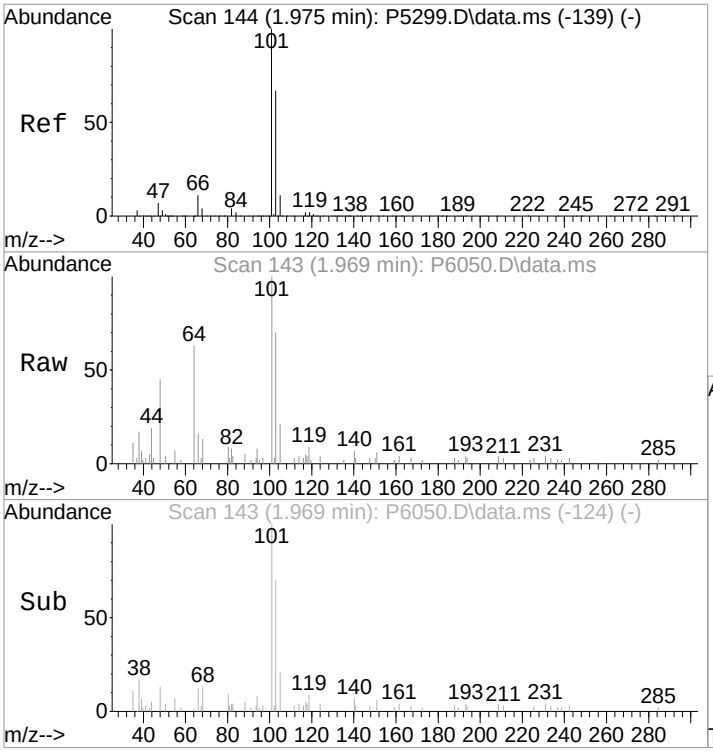


#7
Freon 21
Concen: 0.26 ppb
RT: 1.920 min Scan# 135
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 67 Resp: 2078

Ion	Ratio	Lower	Upper
67	100		
69	28.3	14.4	54.4

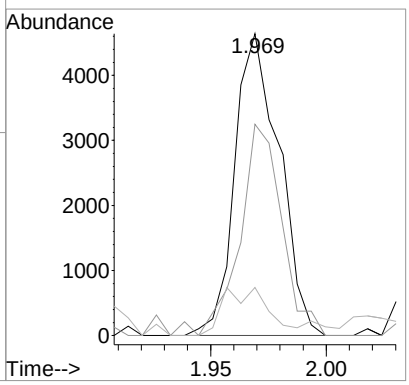


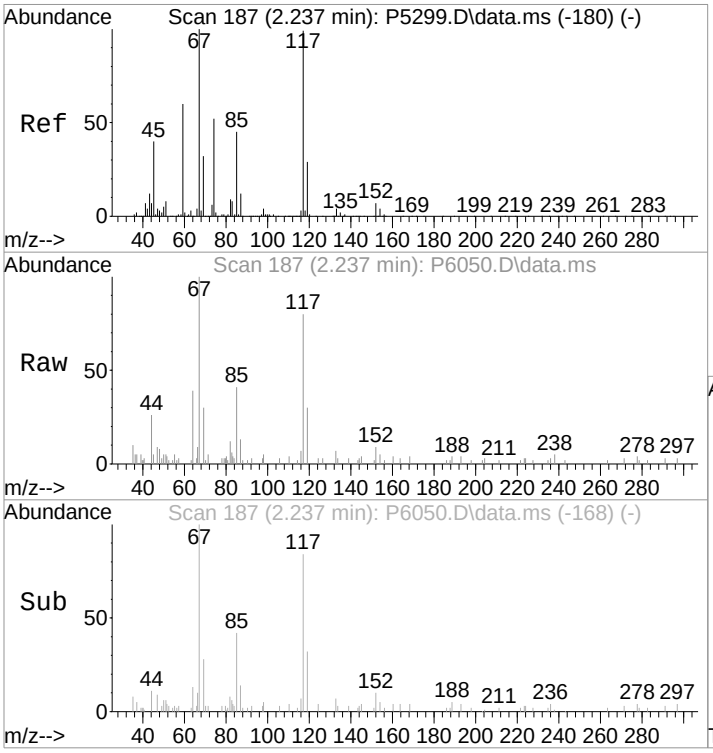


#8
Trichlorofluoromethane
Concen: 0.88 ppb
RT: 1.969 min Scan# 143
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion:101 Resp: 6210

Ion	Ratio	Lower	Upper
101	100		
103	70.0	47.3	87.3
66	16.0	0.0	31.5

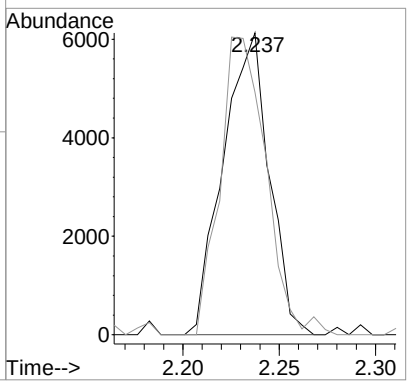


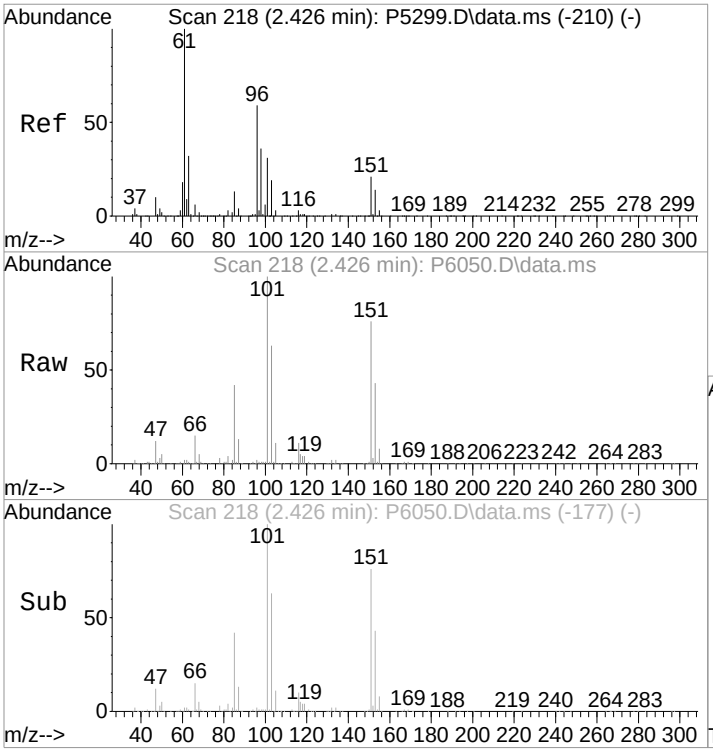


#10
Freon 123a
Concen: 2.07 ppb
RT: 2.237 min Scan# 187
Delta R.T. -0.000 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 67 Resp: 10221

Ion	Ratio	Lower	Upper
67	100		
117	80.4	78.8	118.8

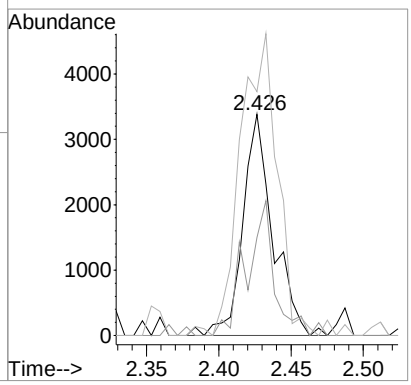


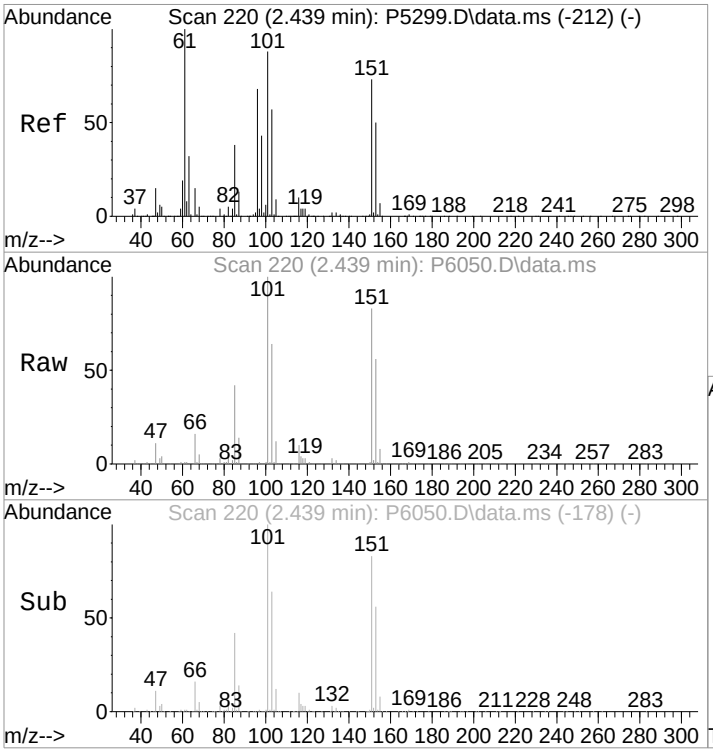


#13
1,1-Diclethene
Concen: 0.91 ppb
RT: 2.426 min Scan# 218
Delta R.T. -0.000 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 96 Resp: 4915

Ion	Ratio	Lower	Upper
96	100		
98	44.3	41.8	81.8
61	110.3	150.1	190.1#

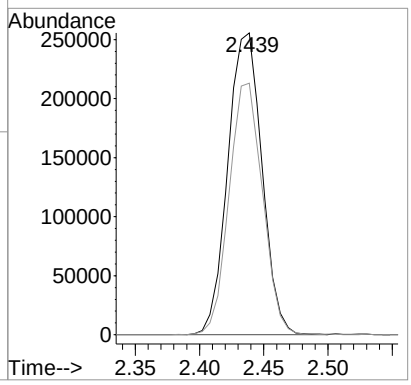


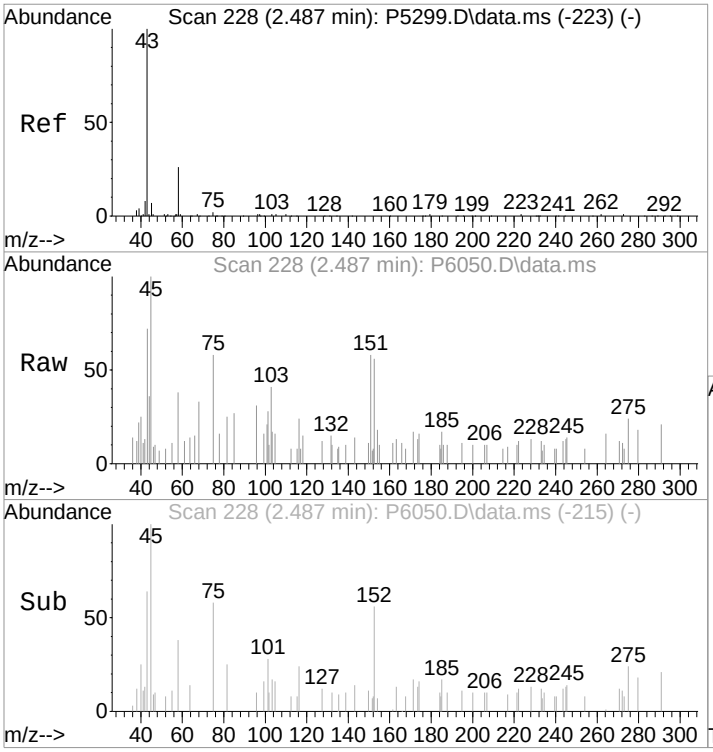


#14
Freon 113
Concen: 82.92 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion:101 Resp: 473677

Ion	Ratio	Lower	Upper
101	100		
151	83.3	62.6	102.6

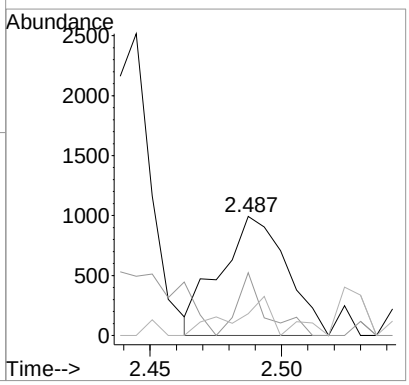


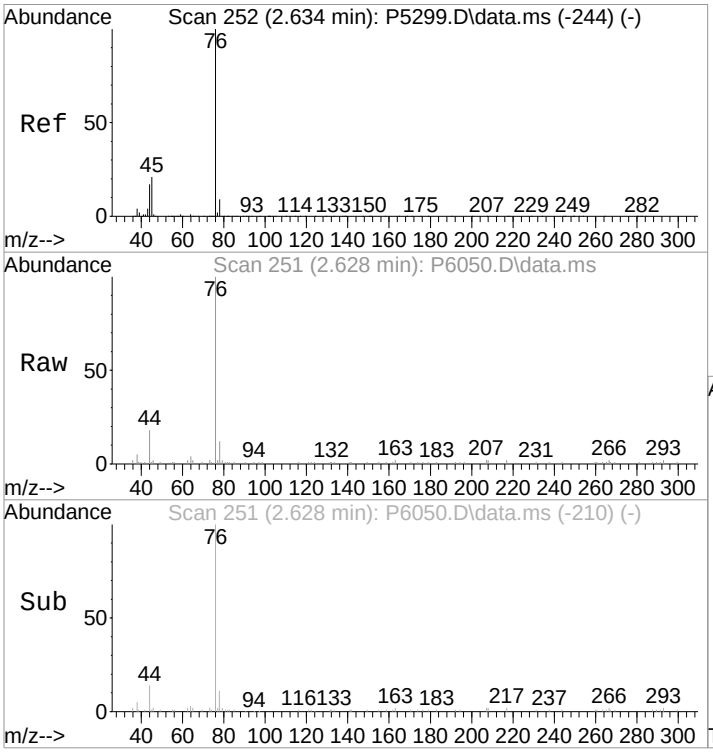


#15
Acetone
Concen: 1.38 ppb m
RT: 2.487 min Scan# 228
Delta R.T. 0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 43 Resp: 1749

Ion	Ratio	Lower	Upper
43	100		
58	52.6	5.3	45.3#
42	18.2	0.0	28.7

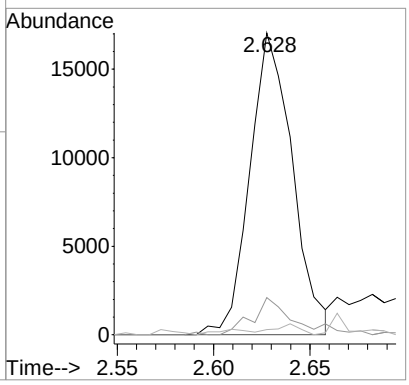


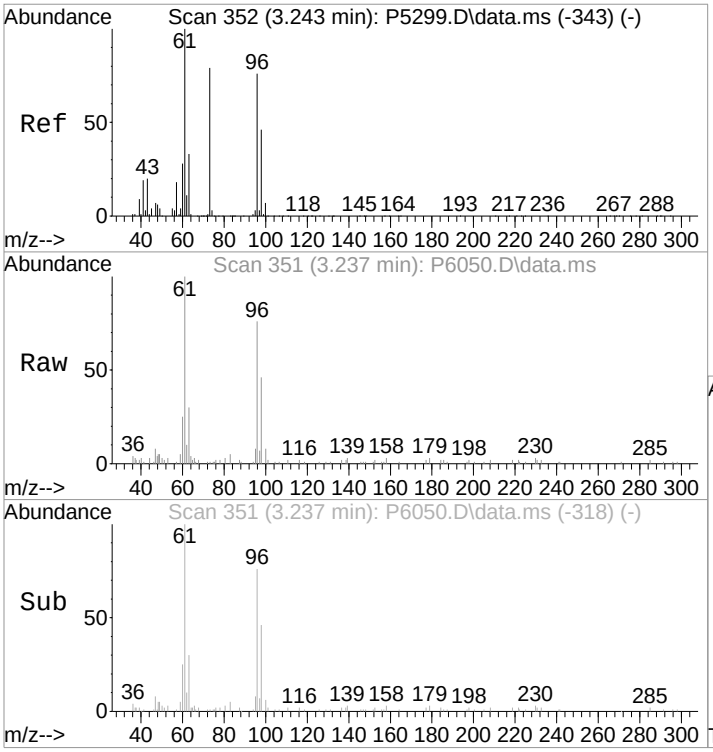


#18
Carbon Disulfide
Concen: 1.54 ppb
RT: 2.628 min Scan# 251
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 76 Resp: 26170

Ion	Ratio	Lower	Upper
76	100		
78	12.3	0.0	29.3
77	1.7	0.0	22.5

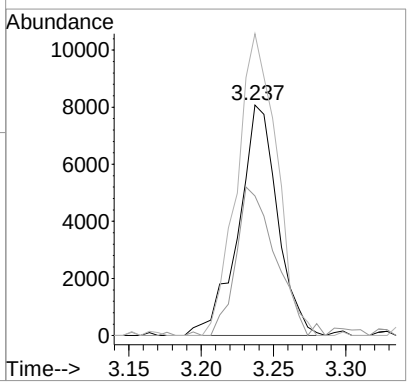


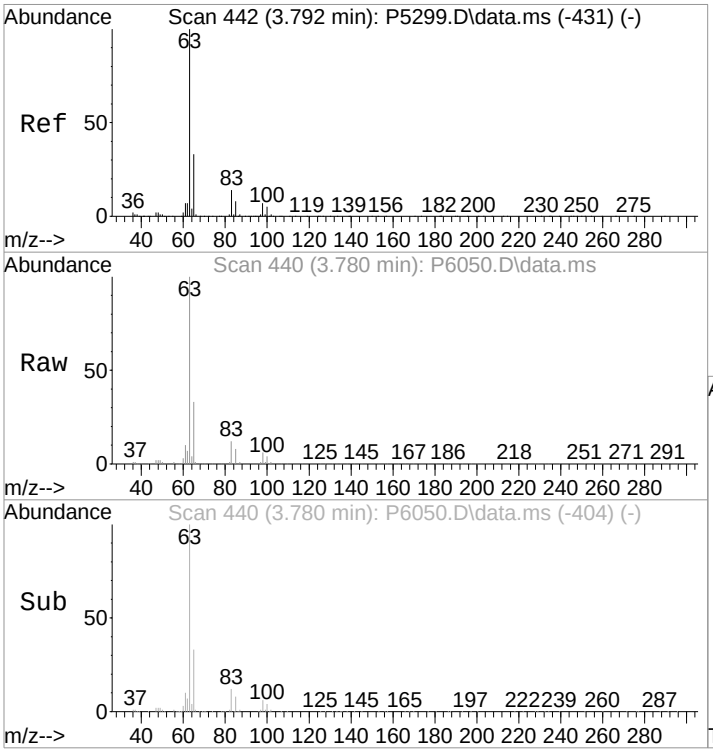


#26
trans-1,2-Dichloroethene
Concen: 2.50 ppb
RT: 3.237 min Scan# 351
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 96 Resp: 15115

Ion	Ratio	Lower	Upper
96	100		
98	60.6	41.0	81.0
61	131.0	112.4	152.4

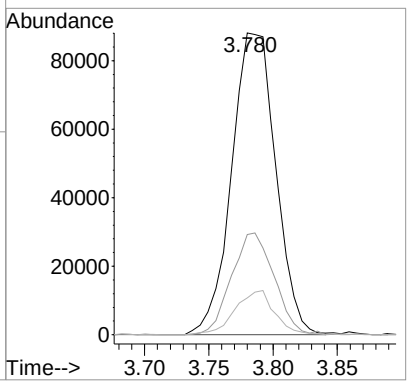


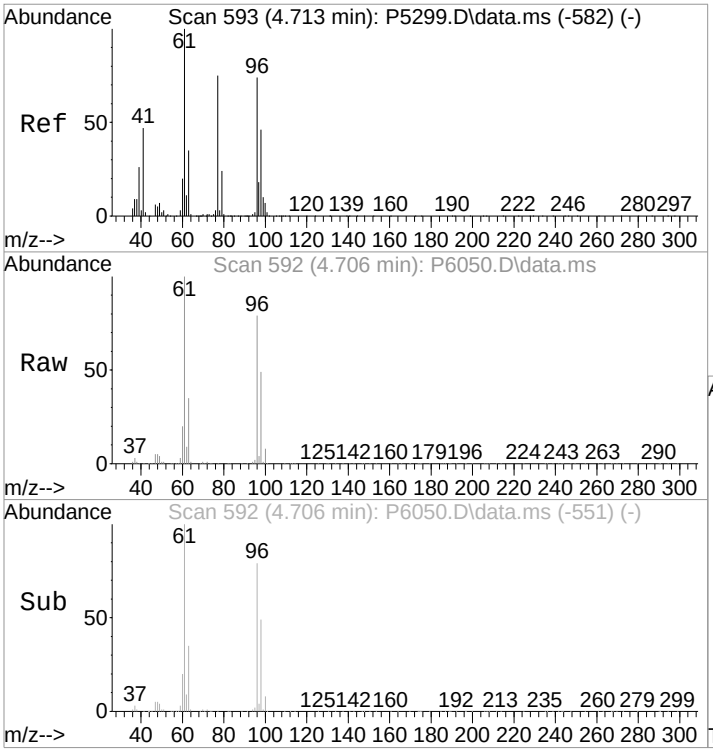


#28
1,1-Diclethane
Concen: 20.97 ppb
RT: 3.780 min Scan# 440
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 63 Resp: 210962

Ion	Ratio	Lower	Upper
63	100		
65	33.2	12.9	52.9
83	12.2	0.0	33.5

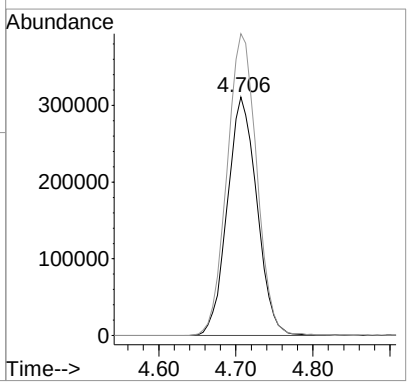


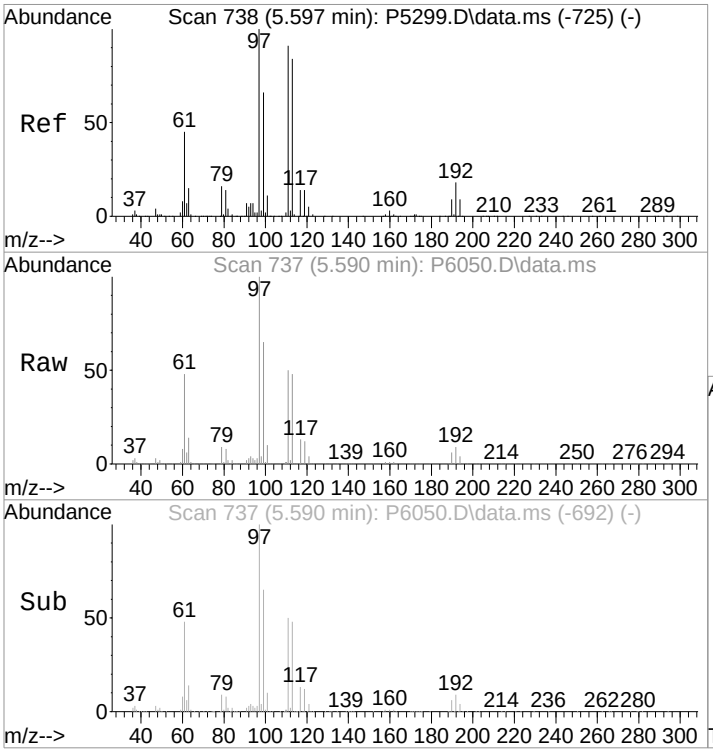


#34
cis-1,2-Dichloroethene
Concen: 134.25 ppb
RT: 4.706 min Scan# 592
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 96 Resp: 829955

Ion	Ratio	Lower	Upper
96	100		
61	126.7	114.6	154.6

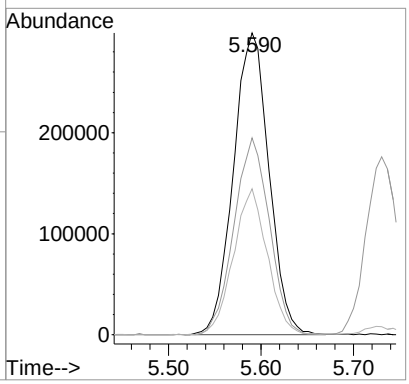


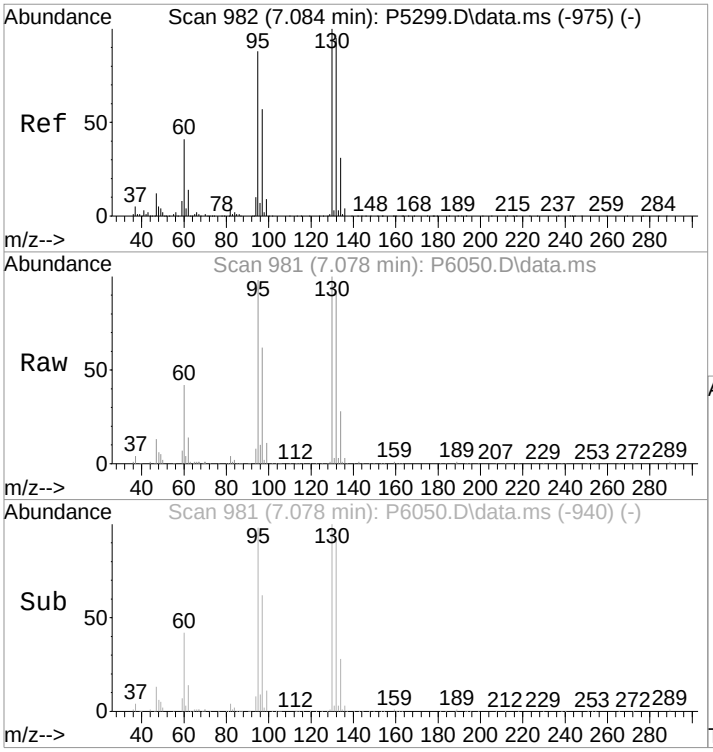


#41
1,1,1-Trichloroethane
Concen: 88.50 ppb
RT: 5.590 min Scan# 737
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion: 97 Resp: 799345

Ion	Ratio	Lower	Upper
97	100		
99	65.2	46.2	86.2
61	48.4	25.3	65.3

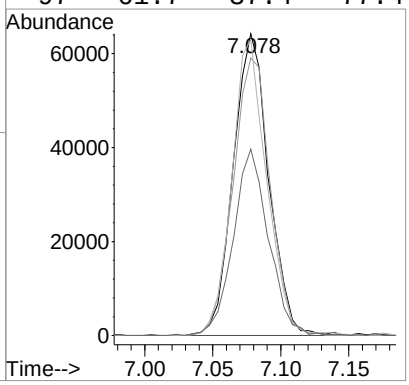


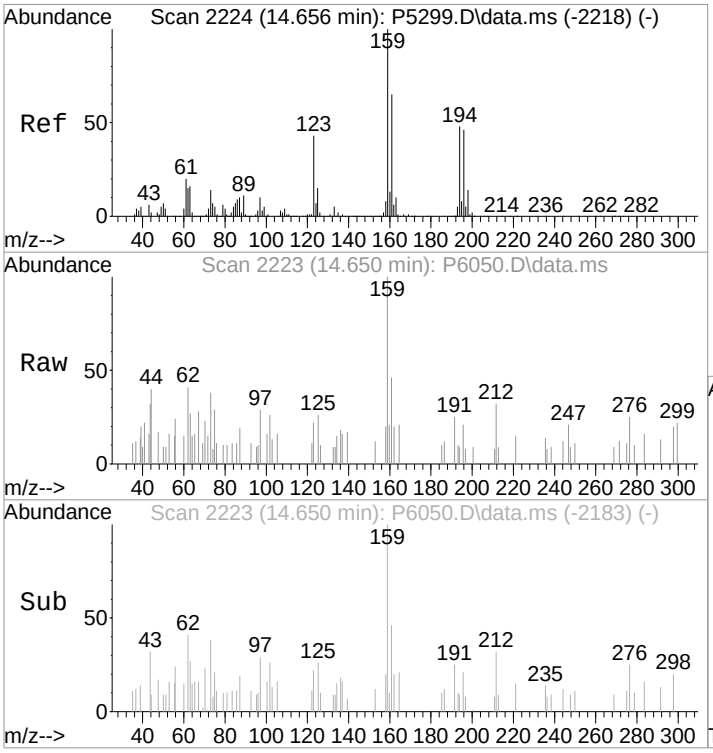


#54
Trichloroethene
Concen: 17.64 ppb
RT: 7.078 min Scan# 981
Delta R.T. -0.000 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion:130 Resp: 116554

Ion	Ratio	Lower	Upper
130	100		
132	91.9	75.2	115.2
95	98.0	68.1	108.1
97	61.7	37.4	77.4

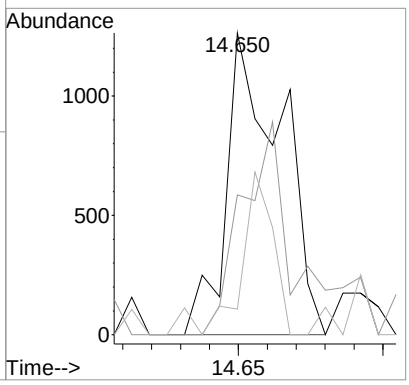




#120
2,3,6-Trichlorotoluene
Concen: 0.33 ppb
RT: 14.650 min Scan# 2223
Delta R.T. -0.006 min
Lab File: P6050.D
Acq: 28 Oct 2016 1:13 pm

Tgt Ion:159 Resp: 1688

Ion	Ratio	Lower	Upper
159	100		
161	38.3	52.3	78.5#
194	7.1	38.6	57.8#

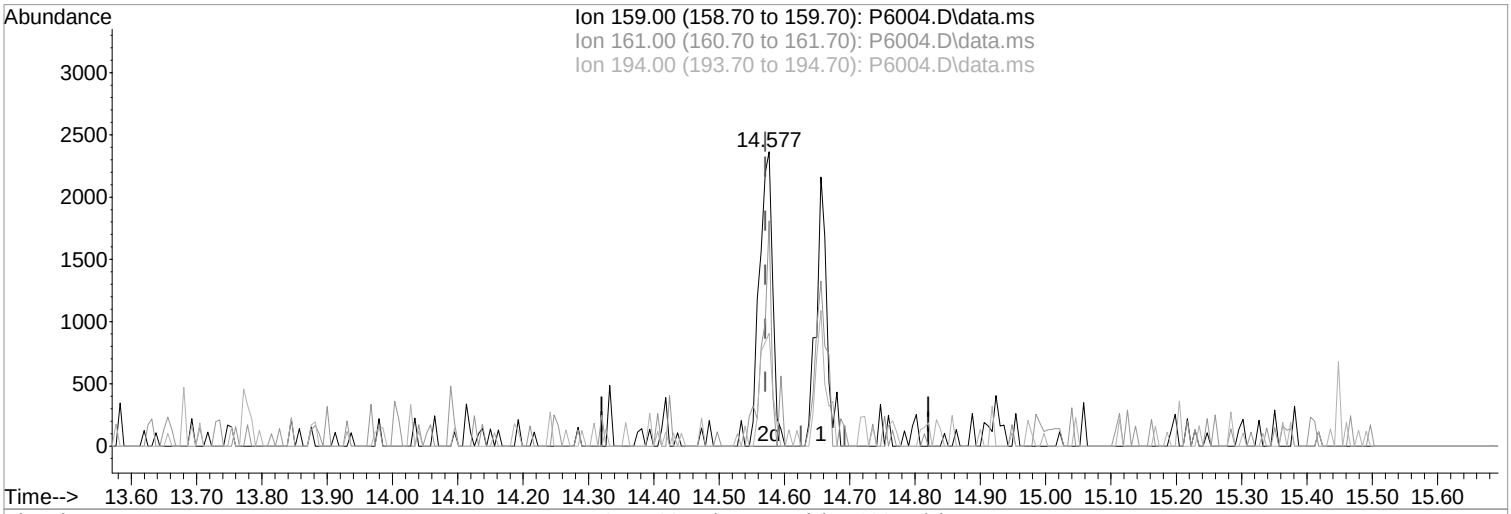


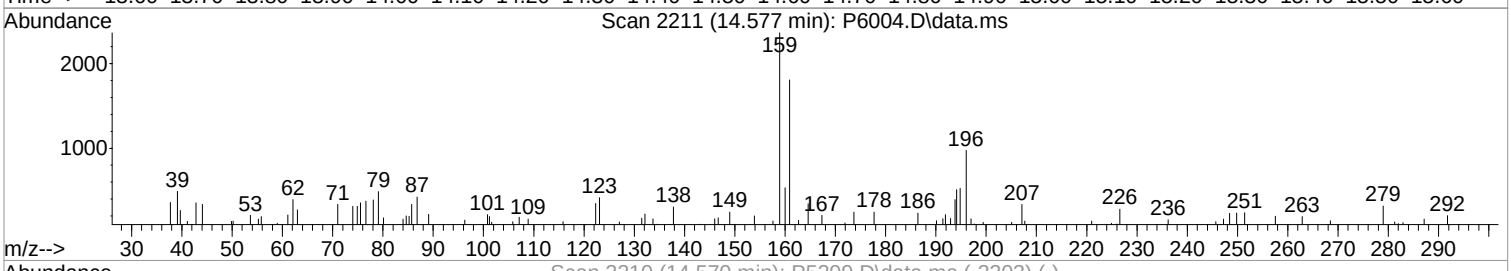
1st 10/27/16
2nd 10/31/16

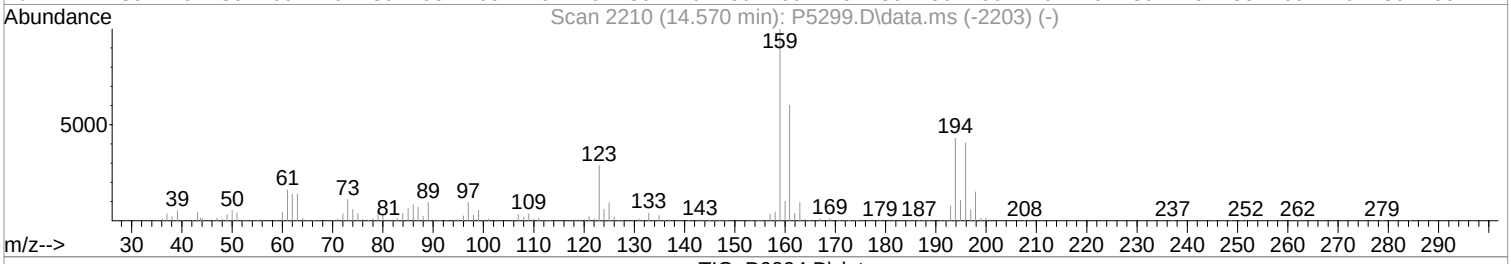
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6004.D
Acq On : 27 Oct 2016 1:20 pm
Operator : K.Ruest
Sample : R1611185-036|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 13:37:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6004.D\data.ms

(119) 2,4,5-Trichlorotolene

14.577min (+0.006) 0.59 ppb m

response 3330

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	76.49#
194.00	43.10	21.61#
0.00	0.00	0.00

Manual Integration:

After

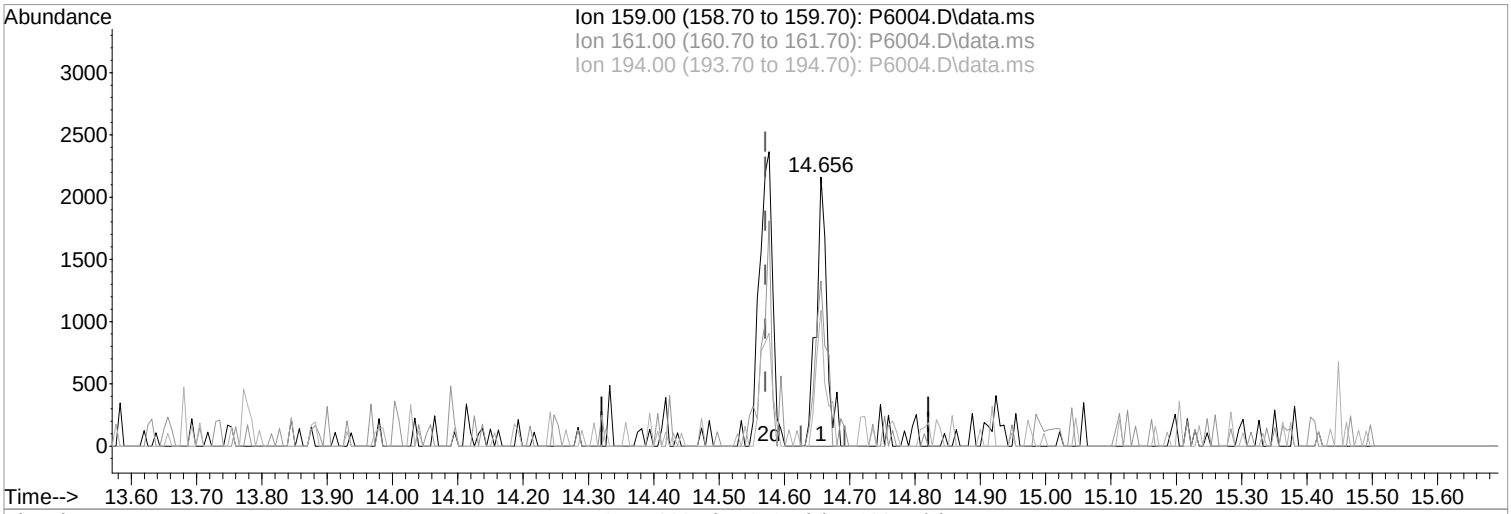
Wrong peak selected.

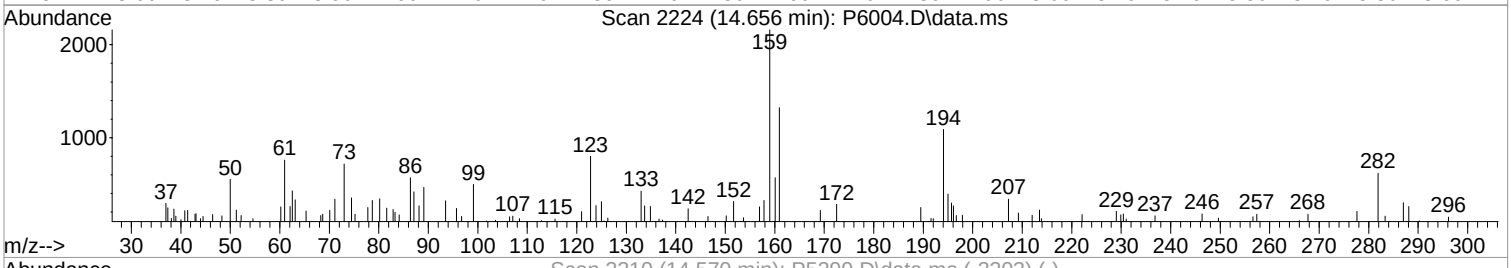
10/27/16

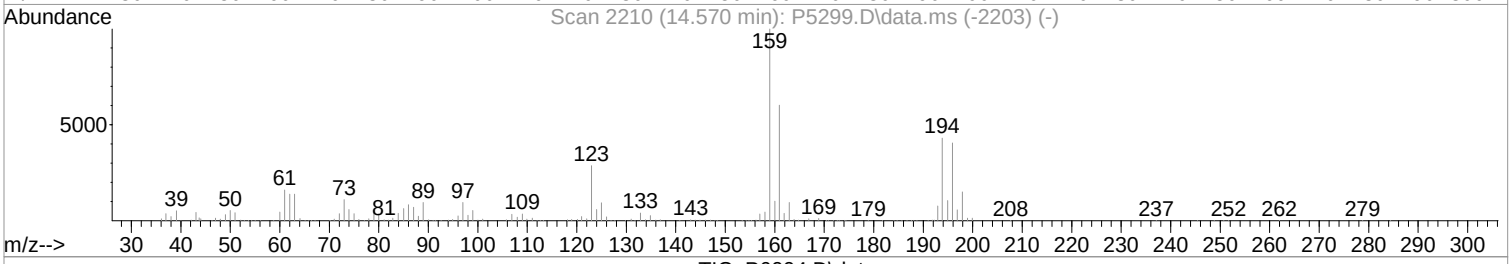
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6004.D
Acq On : 27 Oct 2016 1:20 pm
Operator : K.Ruest
Sample : R1611185-036|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 13:37:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6004.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.085) 0.44 ppb

response 2509

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	61.31
194.00	43.10	50.44
0.00	0.00	0.00

Manual Integration:

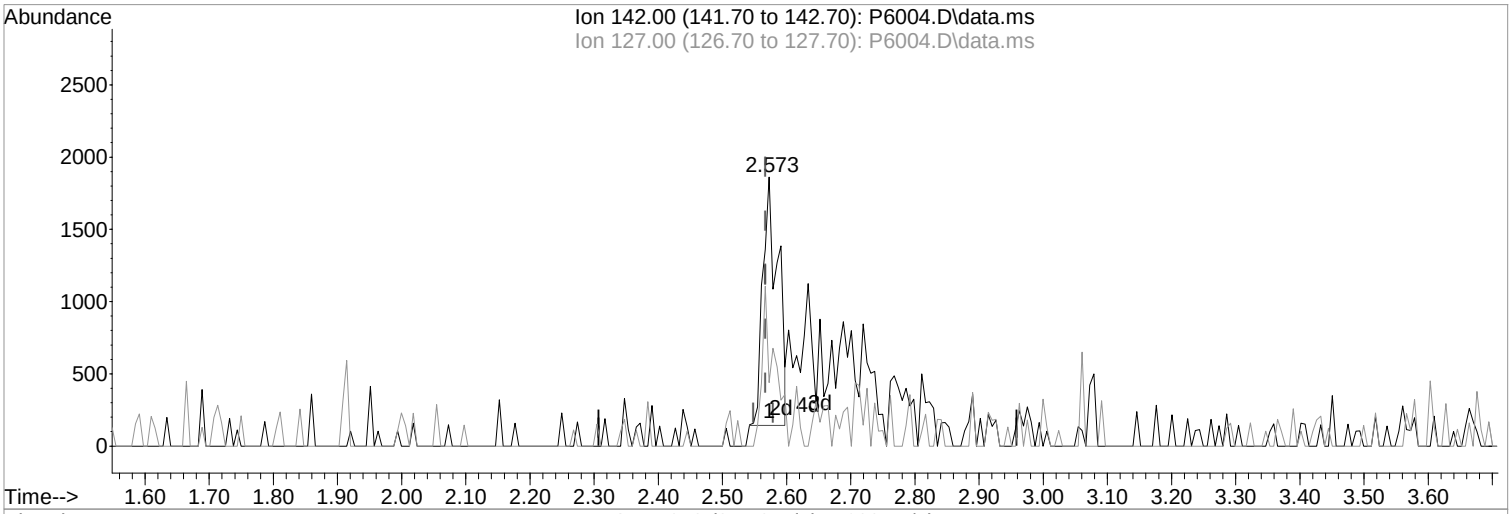
Before

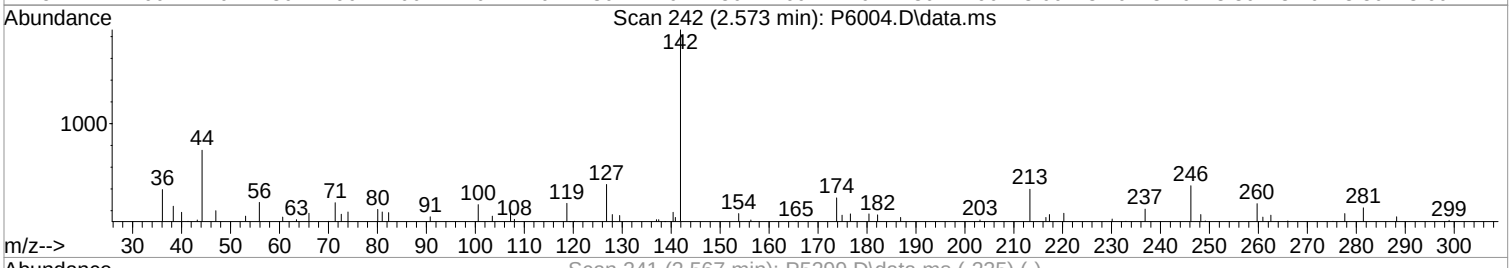
10/27/16

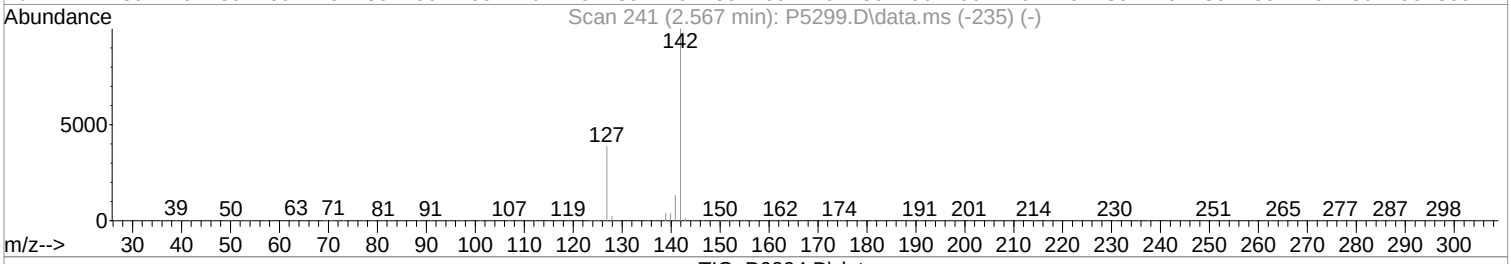
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6004.D
Acq On : 27 Oct 2016 1:20 pm
Operator : K.Ruest
Sample : R1611185-036|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 13:37:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6004.D\data.ms

(17) Iodomethane

2.573min (+0.006) 0.38 ppb m

response 2842

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	23.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

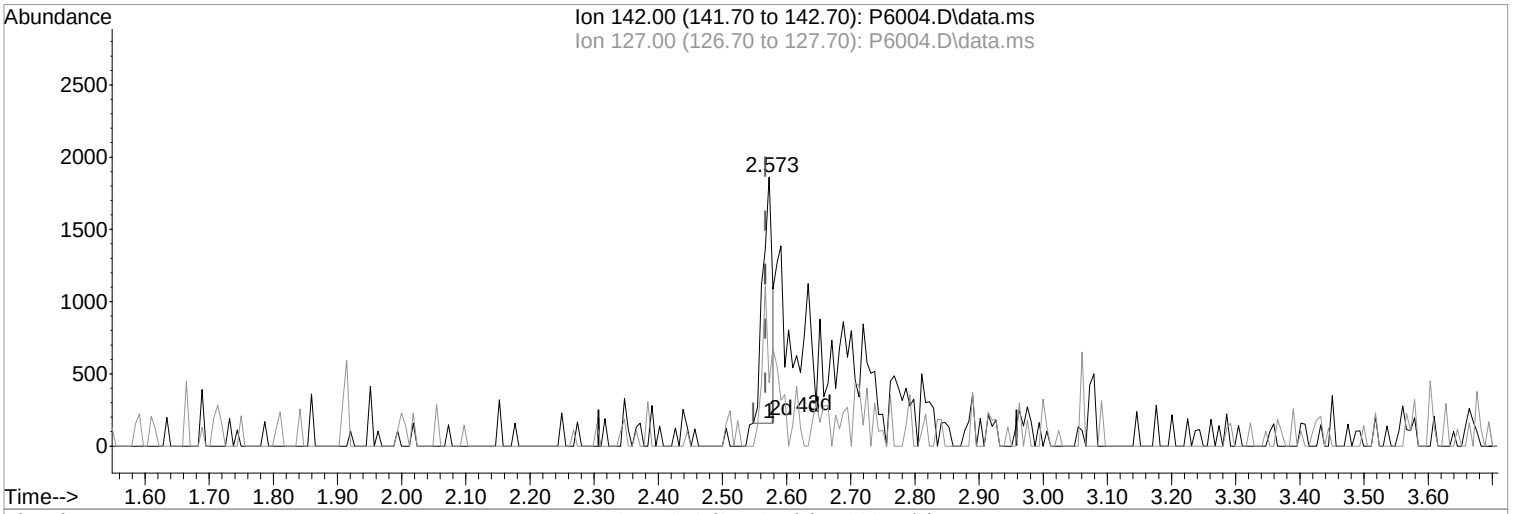
Split Peak

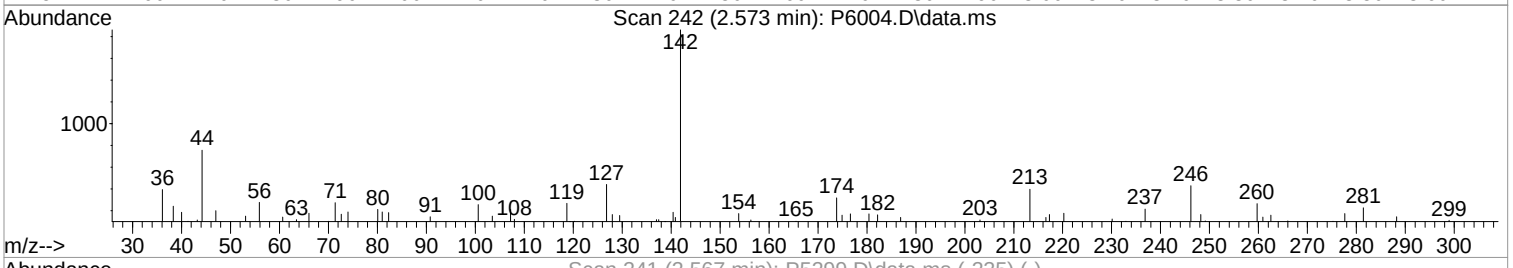
10/27/16

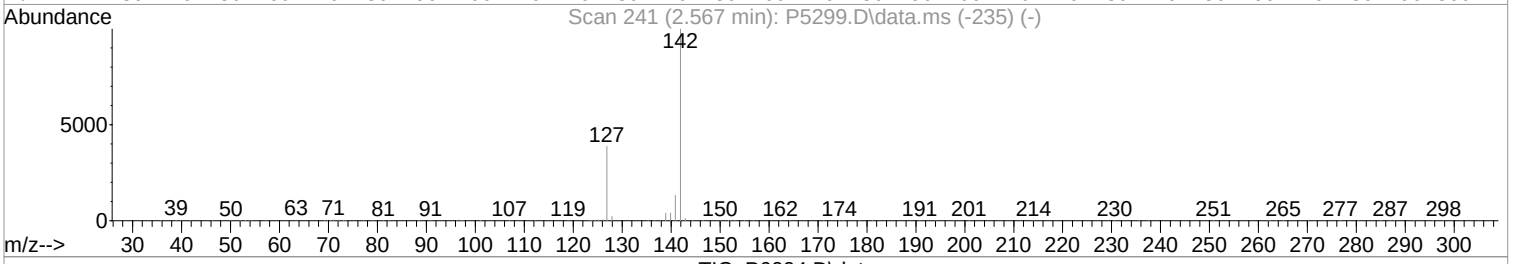
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6004.D
Acq On : 27 Oct 2016 1:20 pm
Operator : K.Ruest
Sample : R1611185-036|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 13:37:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6004.D\data.ms

(17) Iodomethane

2.573min (+0.006) 0.24 ppb

response 1792

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	23.58
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6004.D
Acq On : 27 Oct 2016 1:20 pm
Operator : K.Ruest
Sample : R1611185-036|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 14:58:07 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

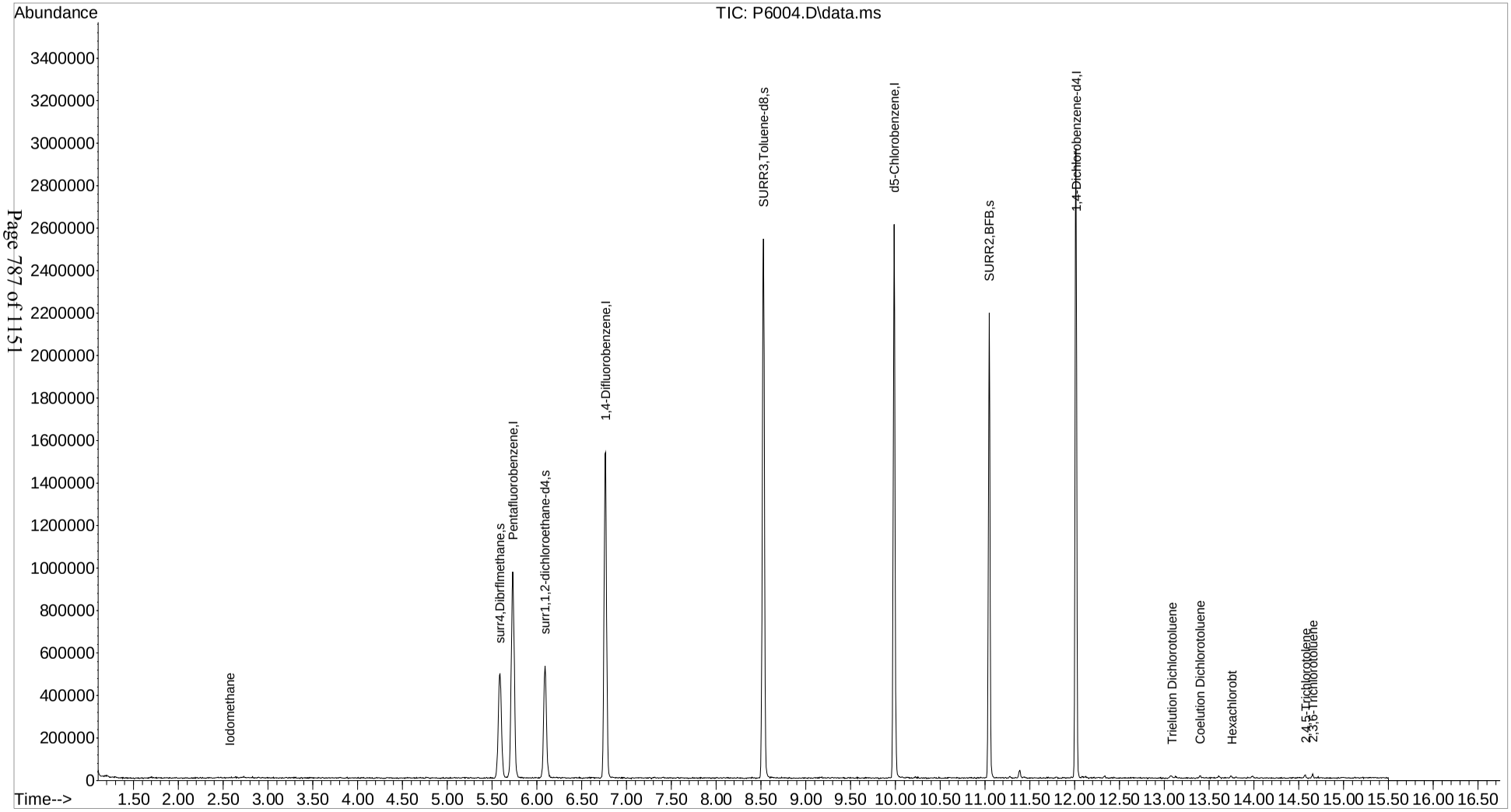
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	797486	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1305917	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1179988	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	603658	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	380650	54.61	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.22%				
48) surr1,1,2-dichloroetha...	6.090	65	404960	51.15	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.30%				
65) SURR3,Toluene-d8	8.529	98	1587471	55.58	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.16%				
70) SURR2,BFB	11.047	95	582929	52.32	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.64%				
Target Compounds							Qvalue
17) Iodomethane	2.573	142	2842m	0.38	ppb		
112) Trielution Dichlorotol...	13.083	125	5294	0.45	ppb	#	77
114) Coelution Dichlorotoluene	13.400	125	4105	0.32	ppb		92
116) Hexachlorobt	13.754	225	1461	0.37	ppb	#	71
119) 2,4,5-Trichlorotolene	14.577	159	3330m	0.59	ppb		
120) 2,3,6-Trichlorotoluene	14.656	159	2509	0.48	ppb		96

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

Quantitation Report (QT Reviewed)

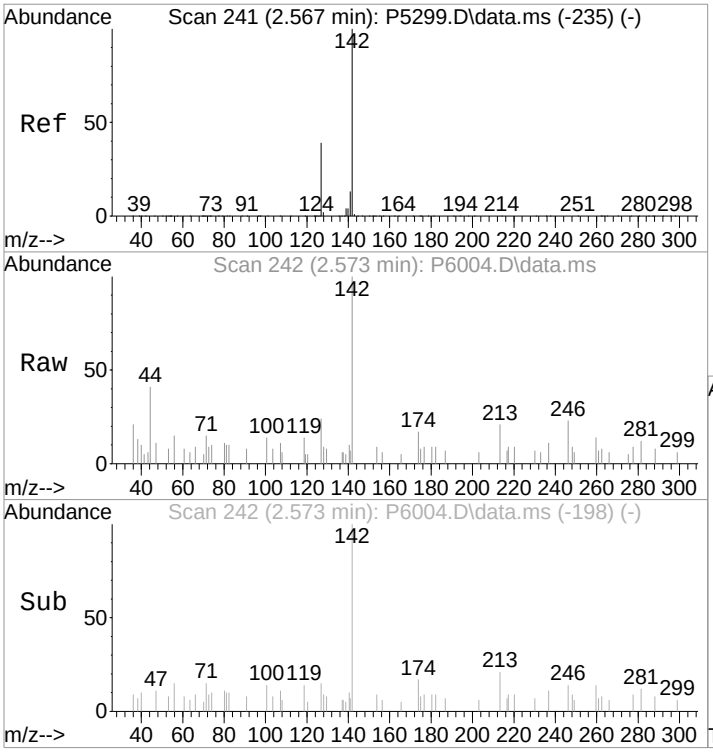
Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6004.D
Acq On : 27 Oct 2016 1:20 pm
Operator : K.Ruest
Sample : R1611185-036|1.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 14:58:07 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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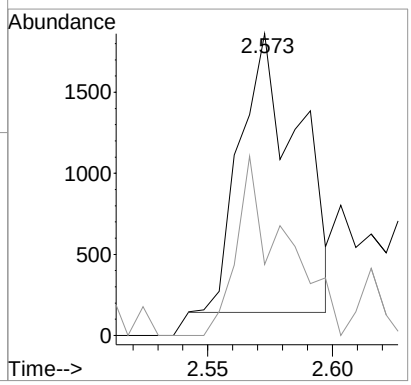
1st 10/27/16
2nd 10/31/16

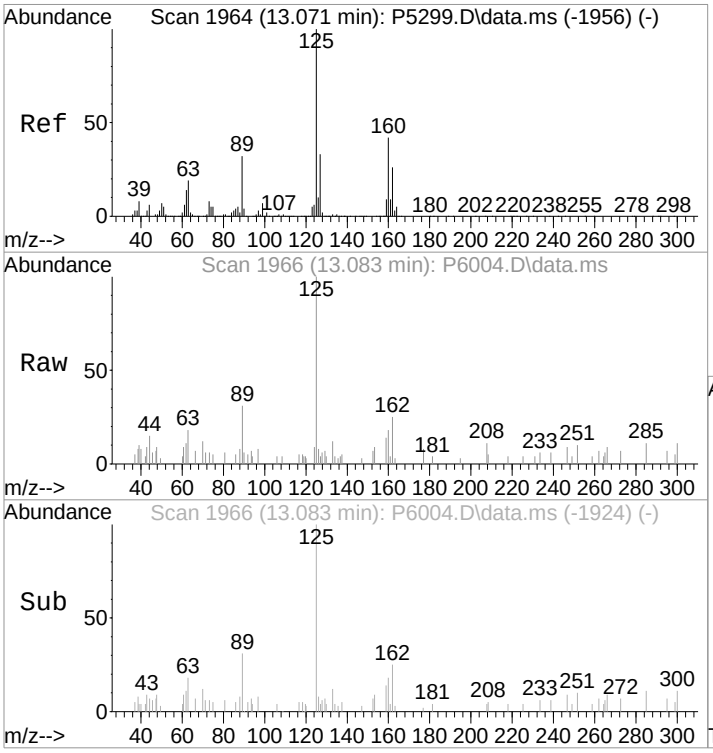


#17
Iodomethane
Concen: 0.38 ppb m
RT: 2.573 min Scan# 242
Delta R.T. 0.006 min
Lab File: P6004.D
Acq: 27 Oct 2016 1:20 pm

Tgt Ion:142 Resp: 2842

Ion	Ratio	Lower	Upper
142	100		
127	23.6	18.7	58.7

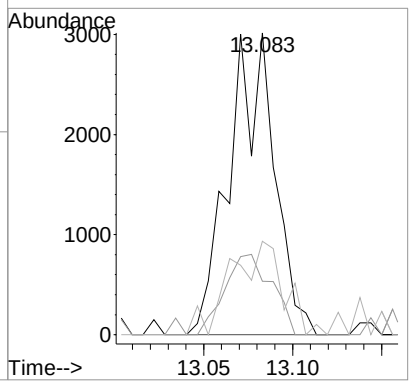


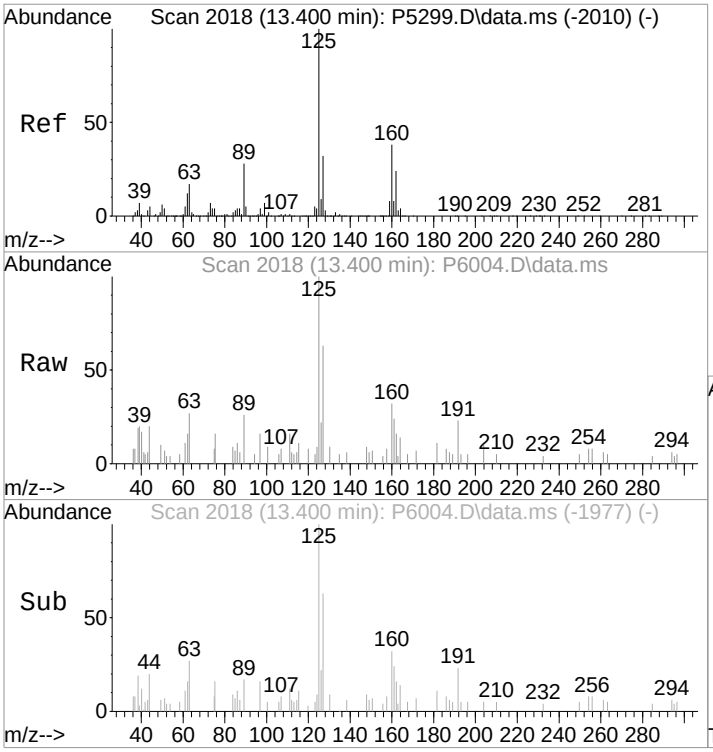


#112
Trielution Dichlorotoluene
Concen: 0.45 ppb
RT: 13.083 min Scan# 1966
Delta R.T. 0.006 min
Lab File: P6004.D
Acq: 27 Oct 2016 1:20 pm

Tgt Ion:125 Resp: 5294

Ion	Ratio	Lower	Upper
125	100		
160	17.7	33.6	50.4#
89	31.0	25.8	38.8

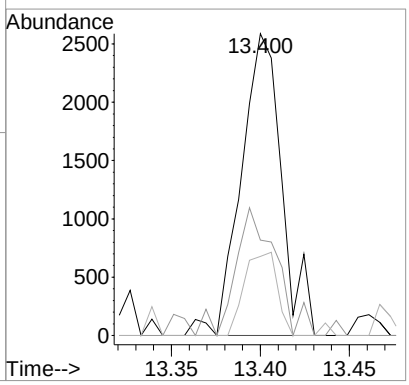


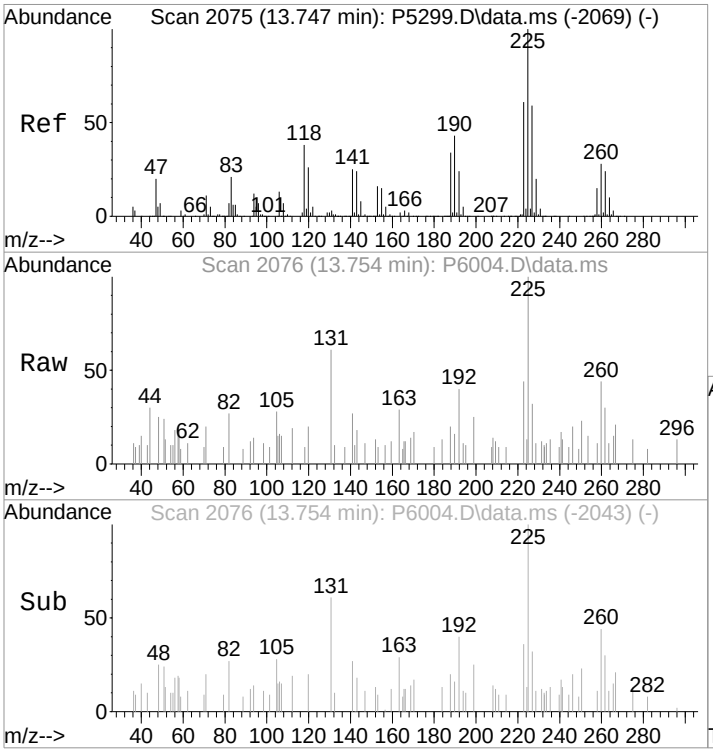


#114
Coelution Dichlorotoluene
Concen: 0.32 ppb
RT: 13.400 min Scan# 2018
Delta R.T. 0.000 min
Lab File: P6004.D
Acq: 27 Oct 2016 1:20 pm

Tgt Ion:125 Resp: 4105

Ion	Ratio	Lower	Upper
125	100		
160	31.6	30.2	45.2
89	26.2	22.7	34.1

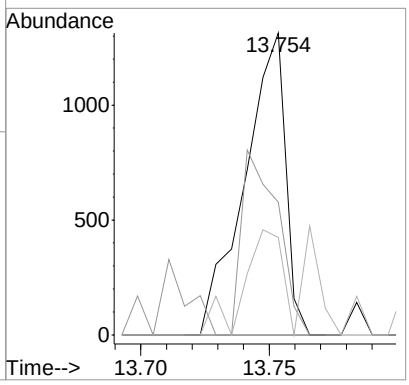


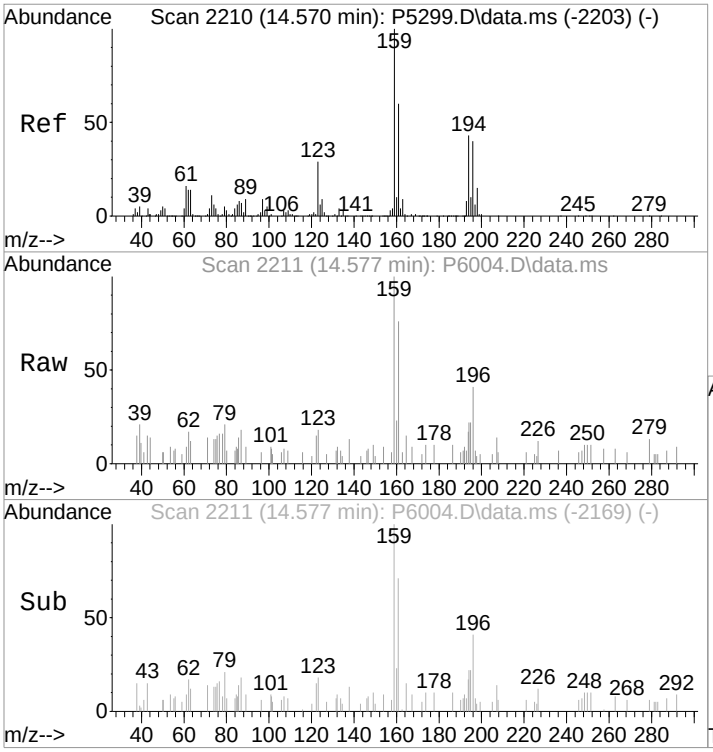


#116
Hexachlorobt
Concen: 0.37 ppb
RT: 13.754 min Scan# 2076
Delta R.T. 0.006 min
Lab File: P6004.D
Acq: 27 Oct 2016 1:20 pm

Tgt Ion:225 Resp: 1461

Ion	Ratio	Lower	Upper
225	100		
223	43.9	41.4	81.4
227	32.2	39.1	79.1#

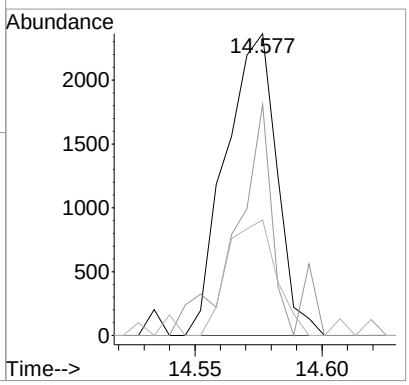


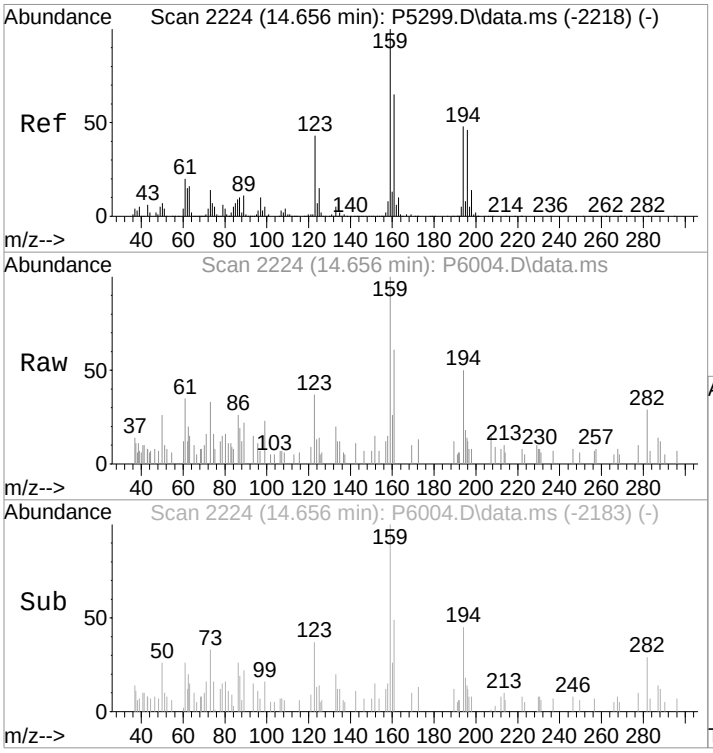


#119
2,4,5-Trichlorotolene
Concen: 0.59 ppb m
RT: 14.577 min Scan# 2211
Delta R.T. 0.006 min
Lab File: P6004.D
Acq: 27 Oct 2016 1:20 pm

Tgt Ion:159 Resp: 3330

Ion	Ratio	Lower	Upper
159	100		
161	76.5	48.1	72.1#
194	21.6	34.5	51.7#

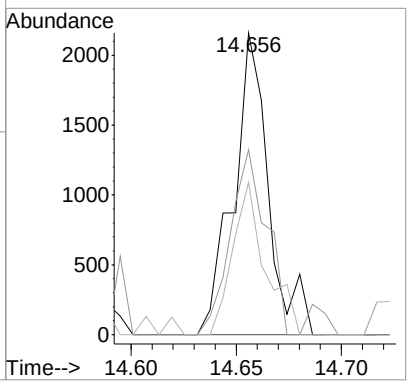




#120
2,3,6-Trichlorotoluene
Concen: 0.48 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P6004.D
Acq: 27 Oct 2016 1:20 pm

Tgt Ion:159 Resp: 2509

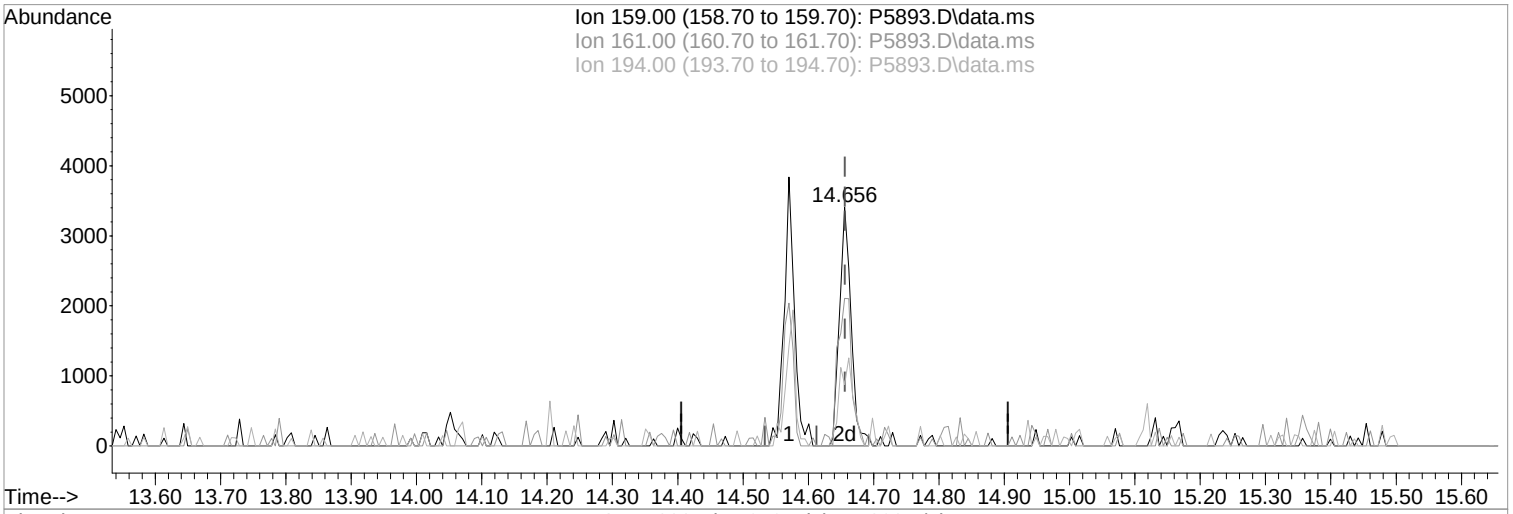
Ion	Ratio	Lower	Upper
159	100		
161	61.3	52.3	78.5
194	50.4	38.6	57.8

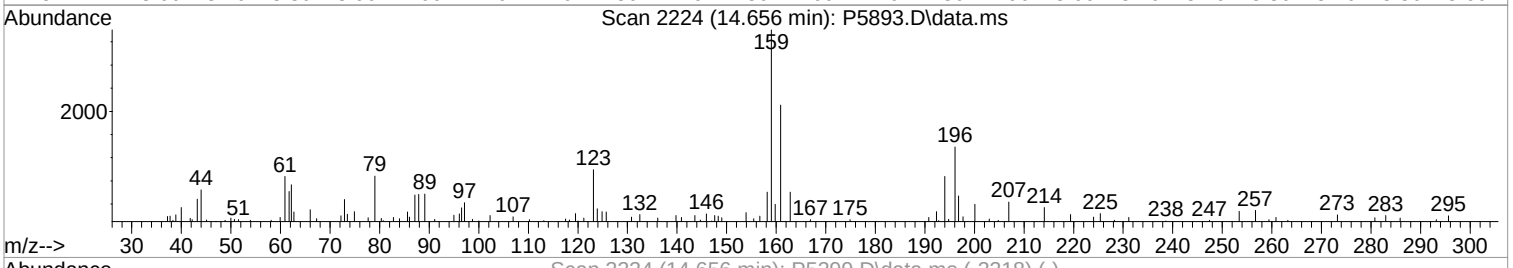


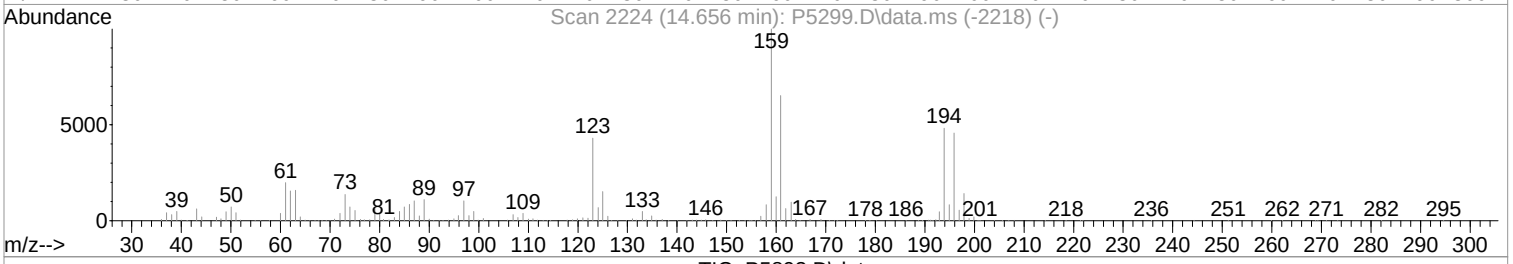
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5893.D
Acq On : 24 Oct 2016 11:46 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 24 13:18:13 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5893.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.656min (-0.000) 0.72 ppb m

response 4241

Ion	Exp%	Act%
159.00	100	100
161.00	65.40	61.78
194.00	48.20	25.76#
0.00	0.00	0.00

Manual Integration:

After

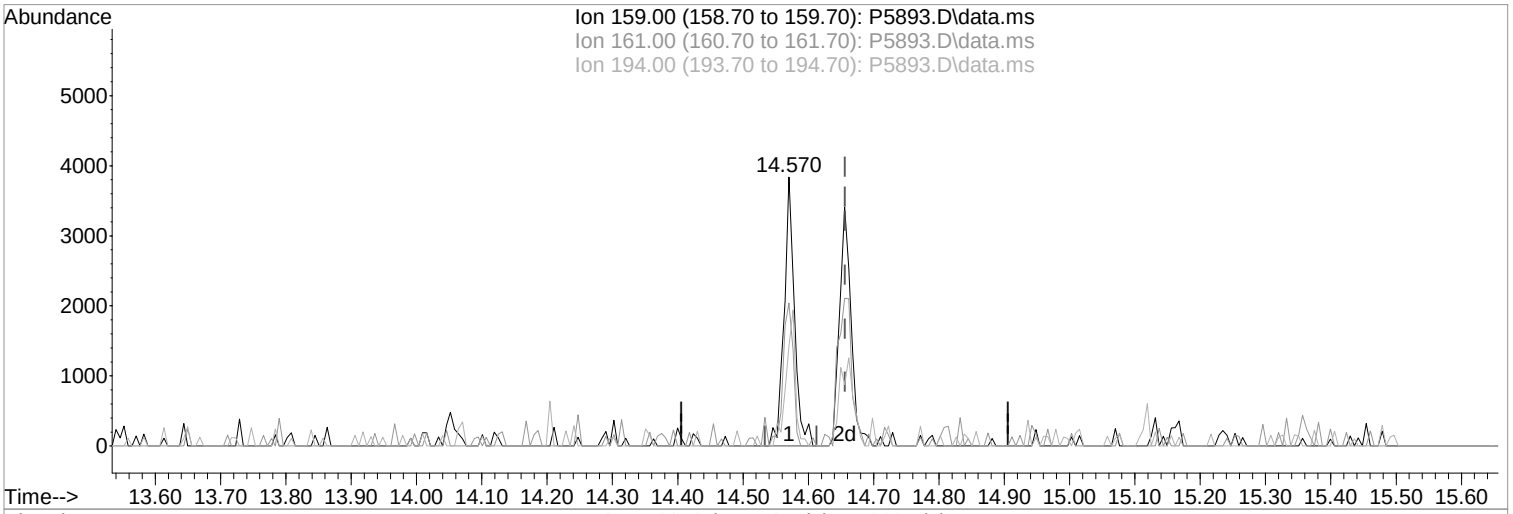
Wrong peak selected.

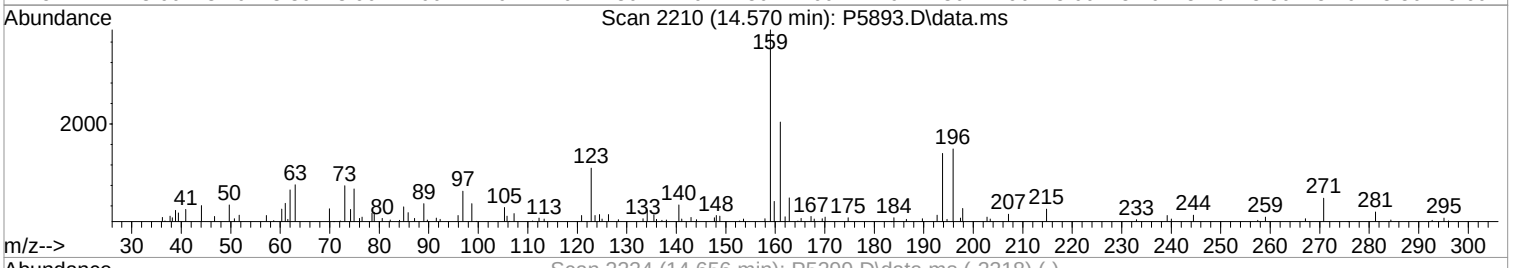
10/25/16

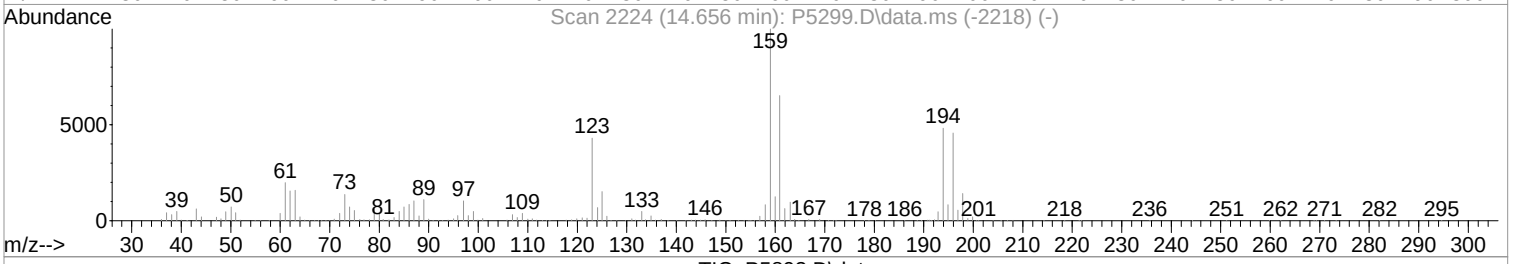
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5893.D
Acq On : 24 Oct 2016 11:46 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 24 13:18:13 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5893.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.570min (-0.086) 0.72 ppb

response 4284

Ion	Exp%	Act%
159.00	100	100
161.00	65.40	53.09
194.00	48.20	40.77
0.00	0.00	0.00

Manual Integration:

Before

10/25/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5893.D
Acq On : 24 Oct 2016 11:46 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 10:54:53 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

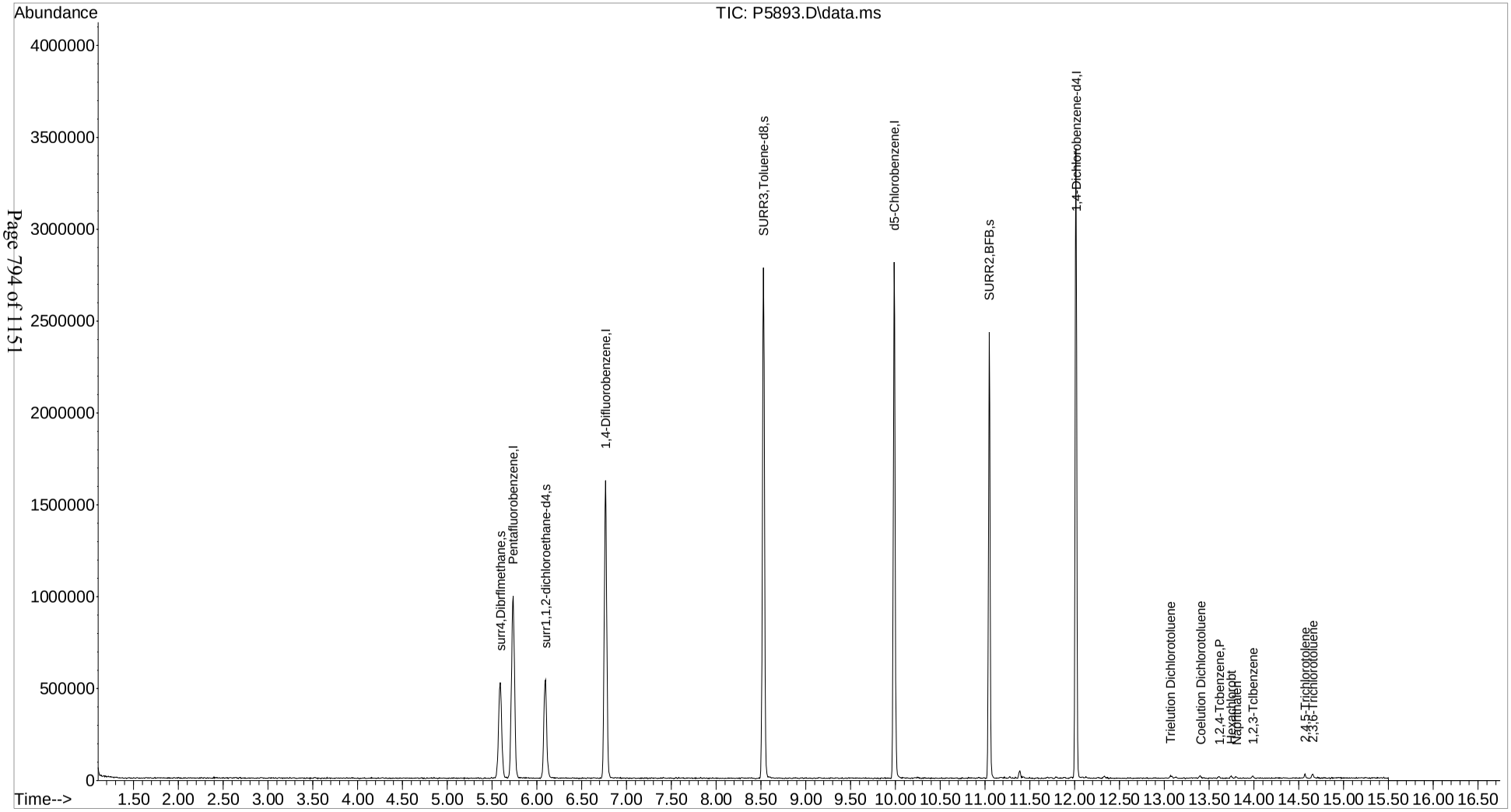
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	823384	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1362813	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1287685	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	681428	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	395590	54.39	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.78%				
48) surr1,1,2-dichloroetha...	6.096	65	428130	51.82	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.64%				
65) SURR3,Toluene-d8	8.529	98	1684796	56.53	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.06%				
70) SURR2,BFB	11.047	95	629759	54.16	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.32%				
Target Compounds							Qvalue
112) Trielution Dichlorotol...	13.071	125	5043	0.38	ppb	#	65
114) Coelution Dichlorotoluene	13.406	125	5171	0.36	ppb		94
115) 1,2,4-Tcbenzene	13.613	180	2717	0.26	ppb	#	65
116) Hexachlorobt	13.747	225	1288	0.29	ppb	#	78
117) Naphthalen	13.802	128	4010	0.22	ppb		89
118) 1,2,3-Tclbenzene	13.991	180	2318	0.25	ppb	#	54
119) 2,4,5-Trichlorotolene	14.570	159	4284	0.67	ppb		93
120) 2,3,6-Trichlorotoluene	14.656	159	4241m	0.72	ppb		

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

Quantitation Report (QT Reviewed)

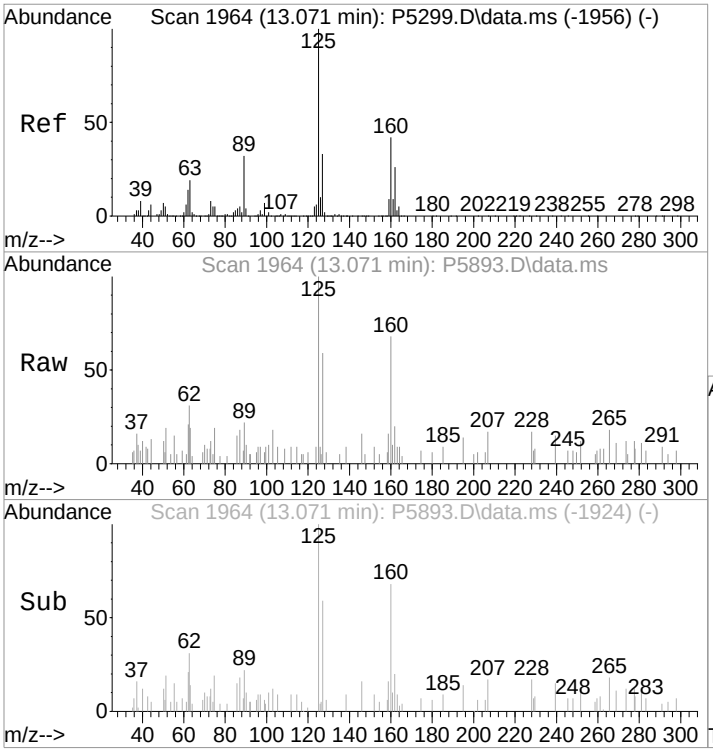
Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5893.D
Acq On : 24 Oct 2016 11:46 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 10:54:53 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



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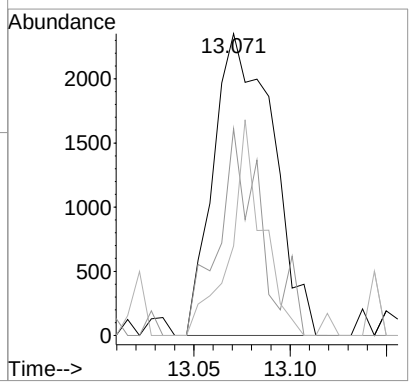
1st 10/25/16
2nd 10/25/16

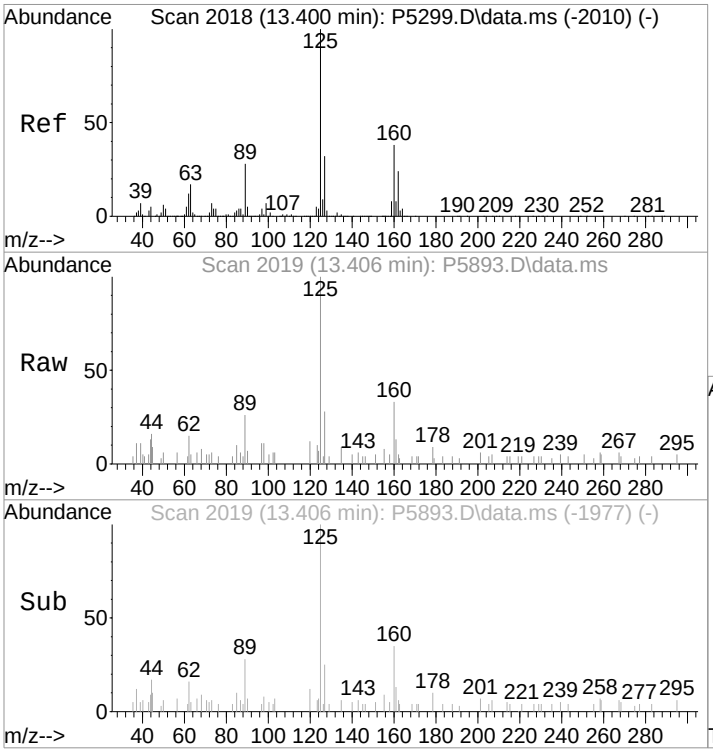


#112
Trielution Dichlorotoluene
Concen: 0.38 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:125 Resp: 5043

Ion	Ratio	Lower	Upper
125	100		
160	78.8	33.6	50.4#
89	29.7	25.8	38.8

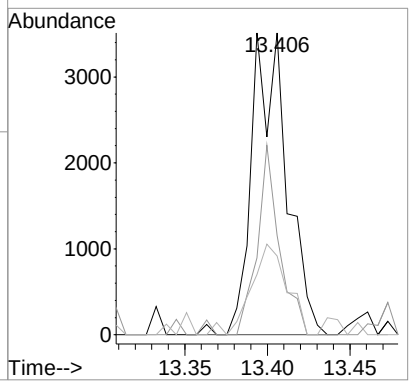


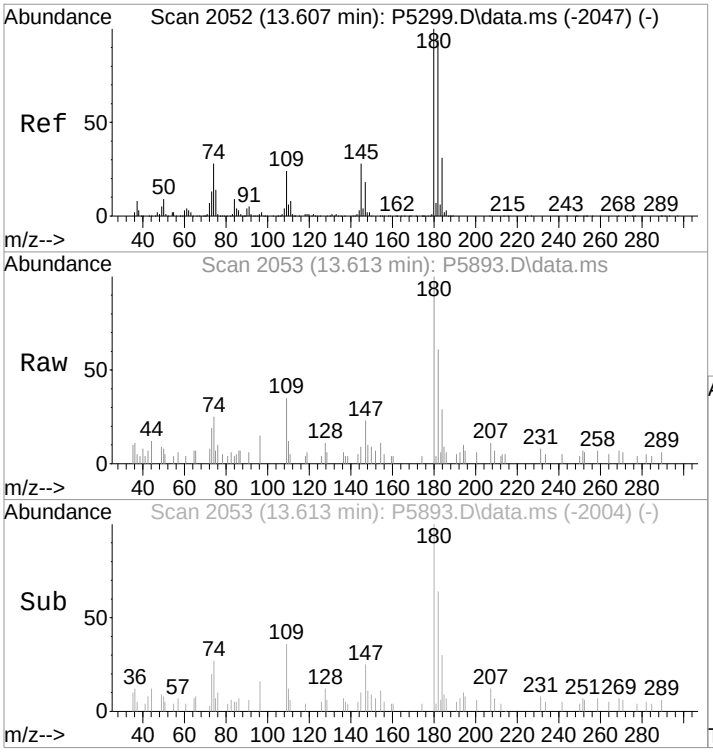


#114
Coelution Dichlorotoluene
Concen: 0.36 ppb
RT: 13.406 min Scan# 2019
Delta R.T. 0.006 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:125 Resp: 5171

Ion	Ratio	Lower	Upper
125	100		
160	32.9	30.2	45.2
89	26.1	22.7	34.1

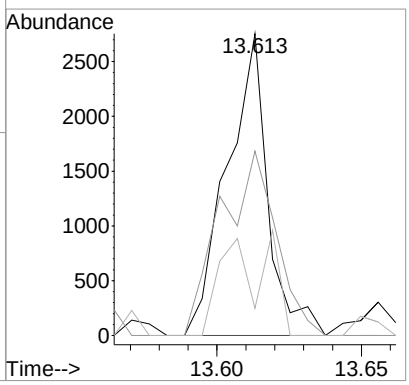


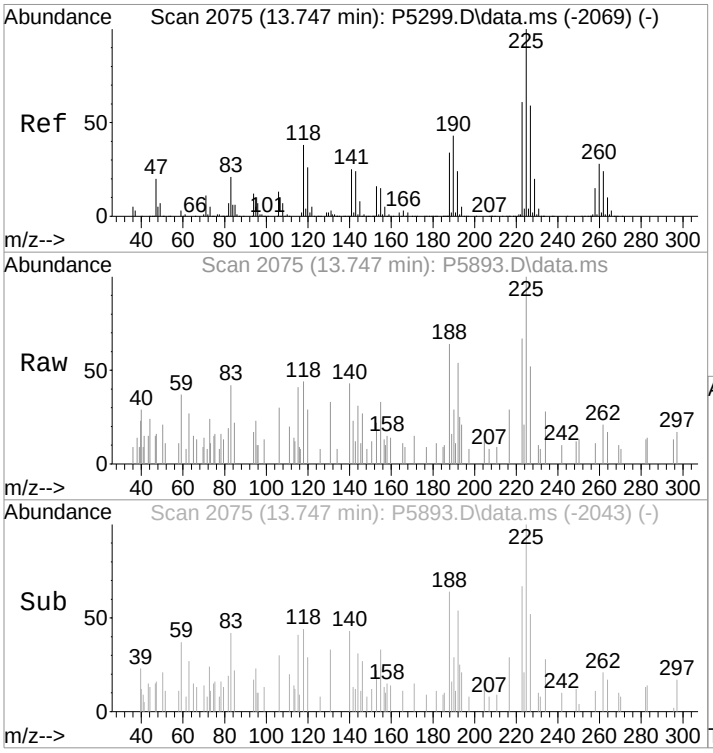


#115
1,2,4-Tcbenzene
Concen: 0.26 ppb
RT: 13.613 min Scan# 2053
Delta R.T. 0.006 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:180 Resp: 2717

Ion	Ratio	Lower	Upper
180	100		
182	61.1	74.1	114.1#
145	9.0	7.8	47.8

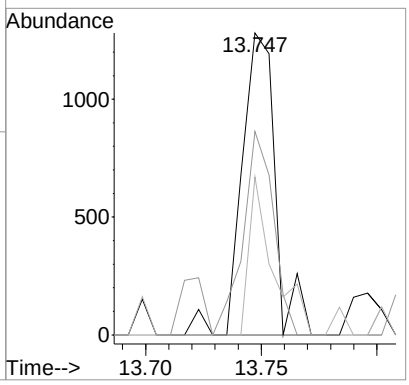


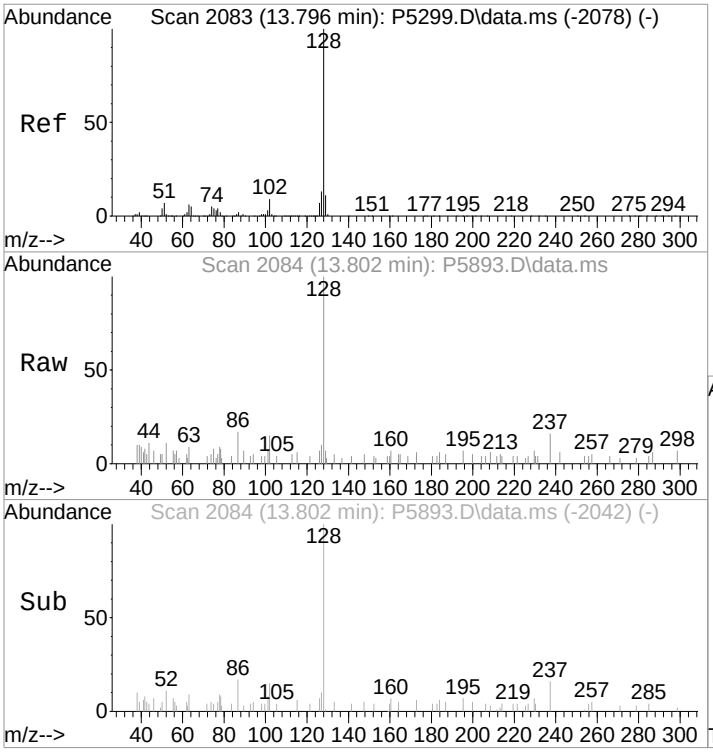


#116
Hexachlorobt
Concen: 0.29 ppb
RT: 13.747 min Scan# 2075
Delta R.T. -0.000 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:225 Resp: 1288

Ion	Ratio	Lower	Upper
225	100		
223	88.0	41.4	81.4#
227	52.3	39.1	79.1

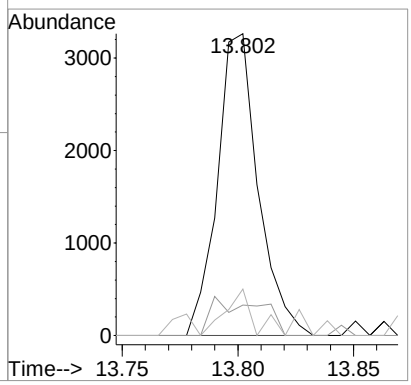


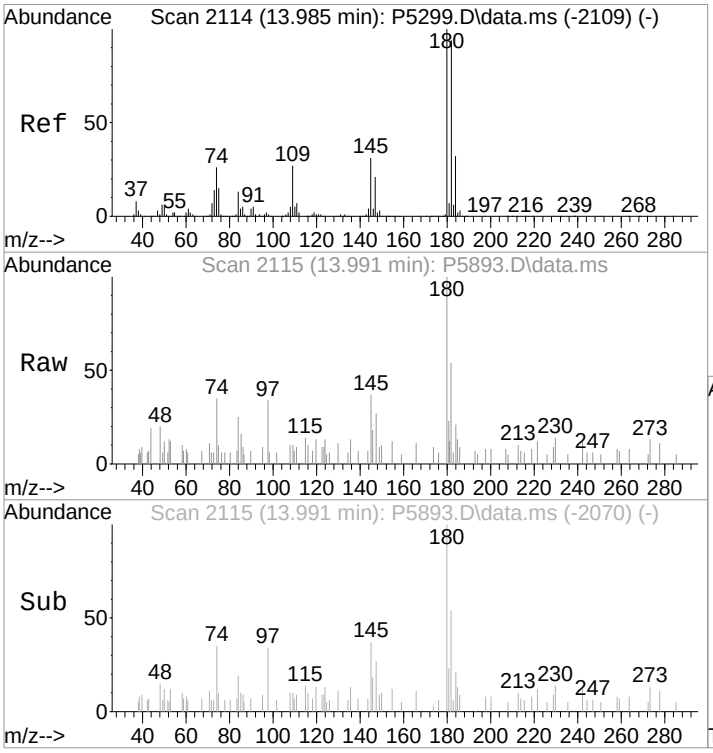


#117
Naphthalen
Concen: 0.22 ppb
RT: 13.802 min Scan# 2084
Delta R.T. -0.000 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:128 Resp: 4010

Ion	Ratio	Lower	Upper
128	100		
127	10.1	0.0	33.2
102	15.3	0.0	29.2

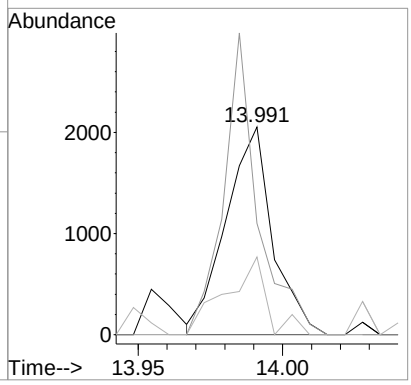


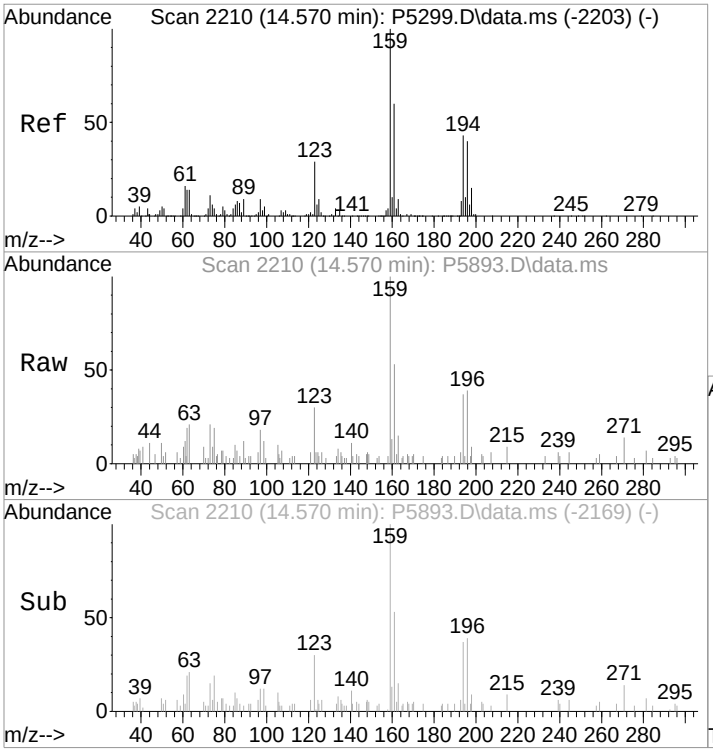


#118
1,2,3-Tclbenzene
Concen: 0.25 ppb
RT: 13.991 min Scan# 2115
Delta R.T. 0.006 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:180 Resp: 2318

Ion	Ratio	Lower	Upper
180	100		
182	43.6	73.9	113.9#
145	45.5	11.2	51.2

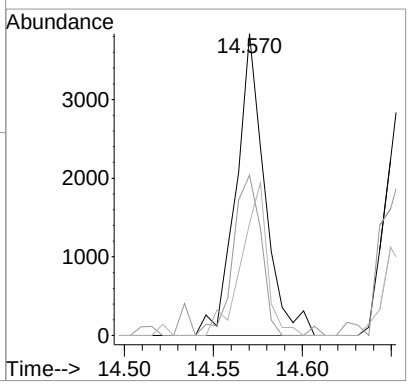


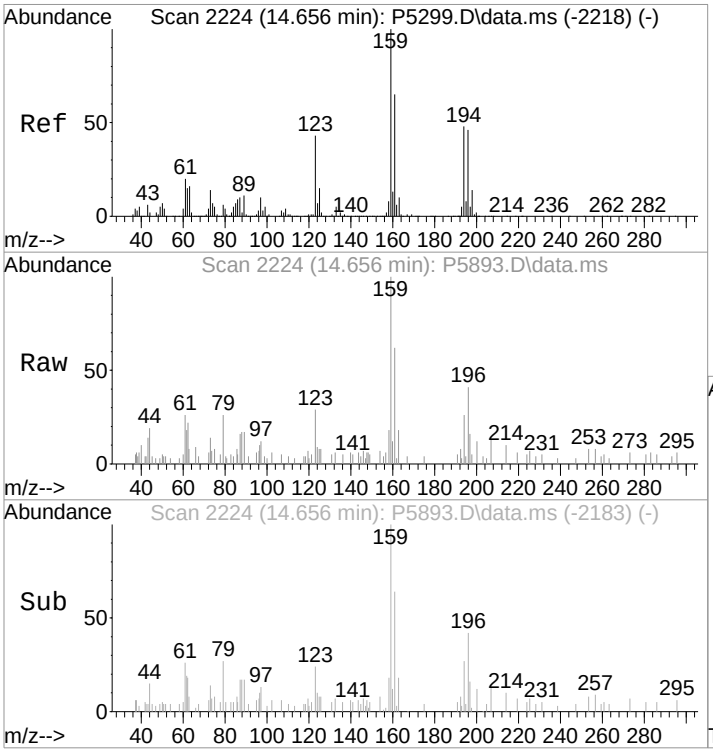


#119
2,4,5-Trichlorotolene
Concen: 0.67 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:159 Resp: 4284

Ion	Ratio	Lower	Upper
159	100		
161	53.1	48.1	72.1
194	40.8	34.5	51.7

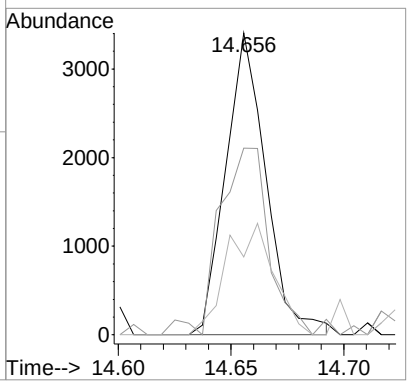




#120
2,3,6-Trichlorotoluene
Concen: 0.72 ppb m
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P5893.D
Acq: 24 Oct 2016 11:46 am

Tgt Ion:159 Resp: 4241

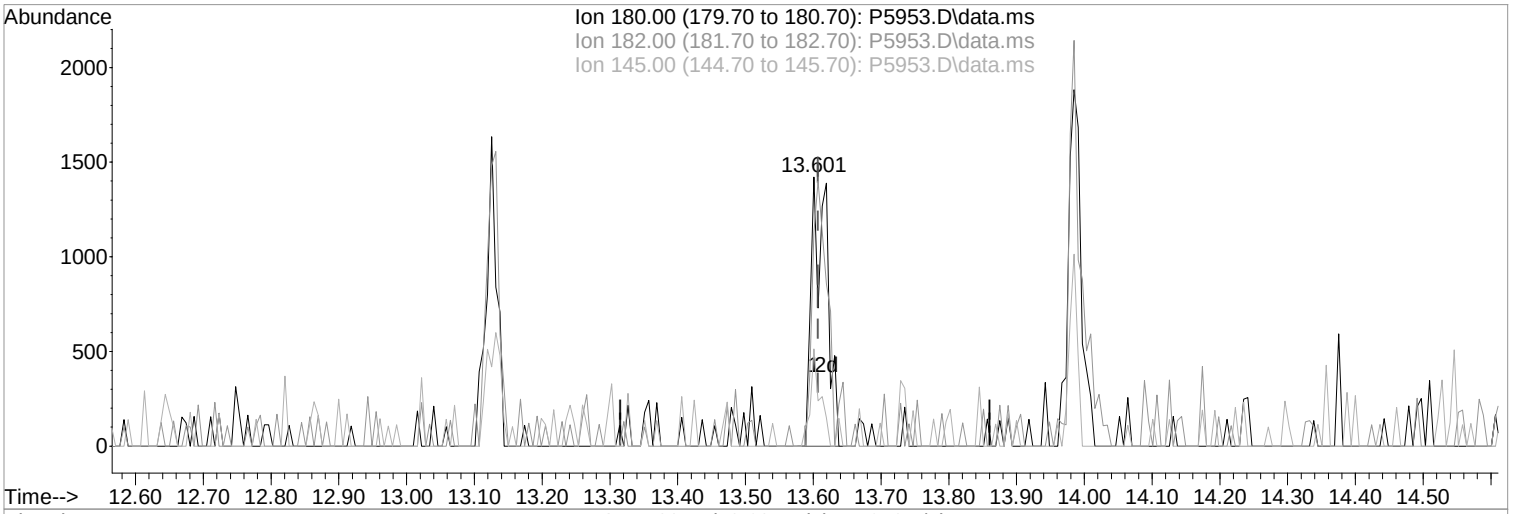
Ion	Ratio	Lower	Upper
159	100		
161	61.8	52.3	78.5
194	25.8	38.6	57.8#

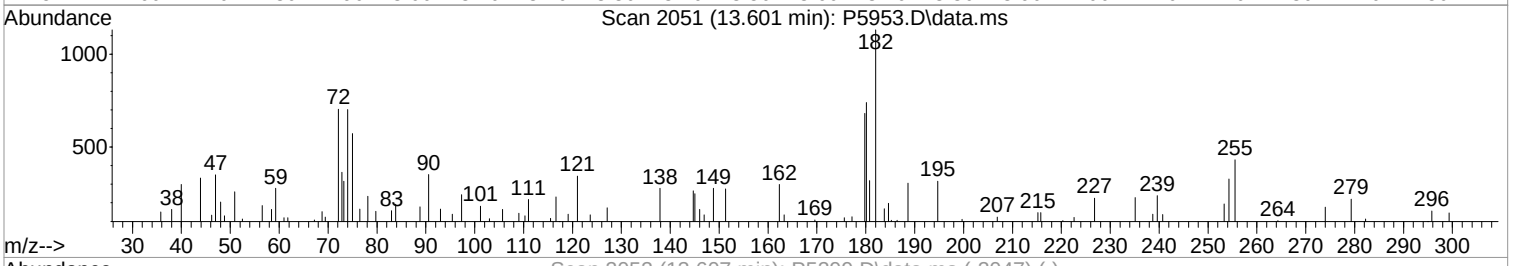


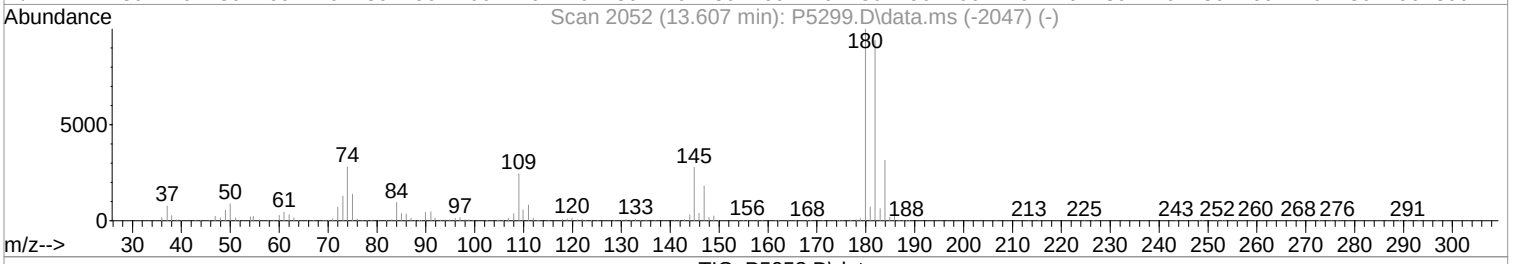
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5953.D
Acq On : 26 Oct 2016 10:21 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 11:26:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5953.D\data.ms

(115) 1,2,4-Tcbenzene (P)

13.601min (-0.006) 0.24 ppb m

response 2287

Ion	Exp%	Act%
180.00	100	100
182.00	94.10	152.84#
145.00	27.80	35.68
0.00	0.00	0.00

Manual Integration:

After

Split Peak

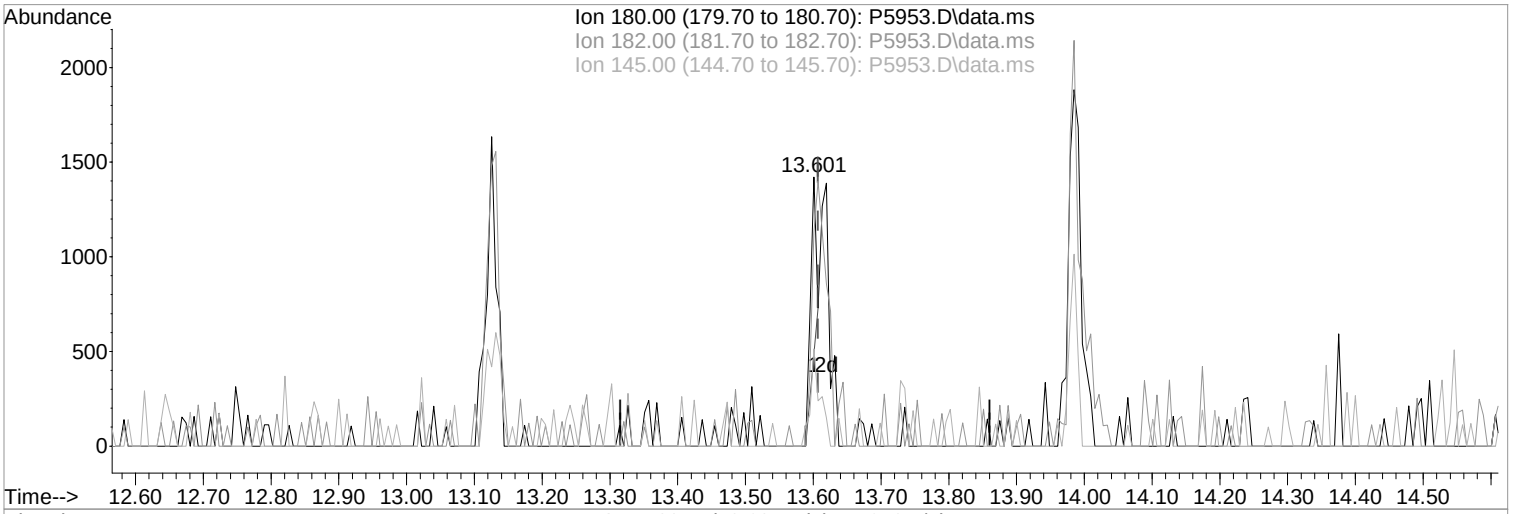
10/26/16

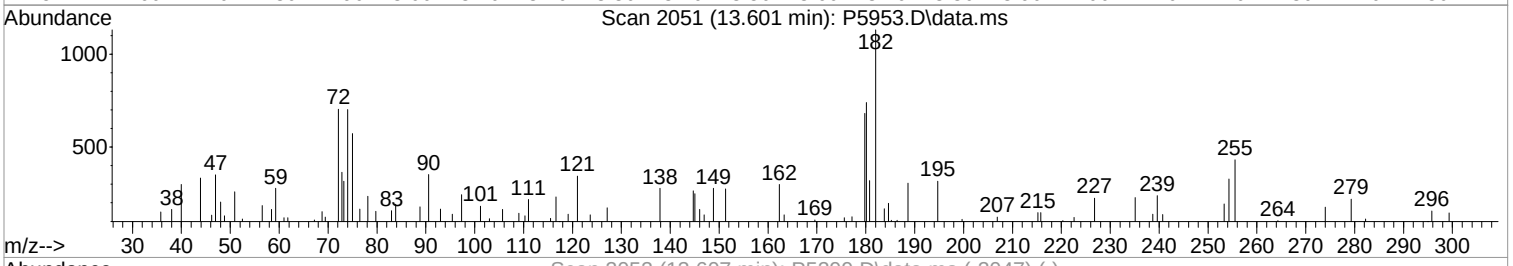
1st 10/26/16
2nd 10/27/16

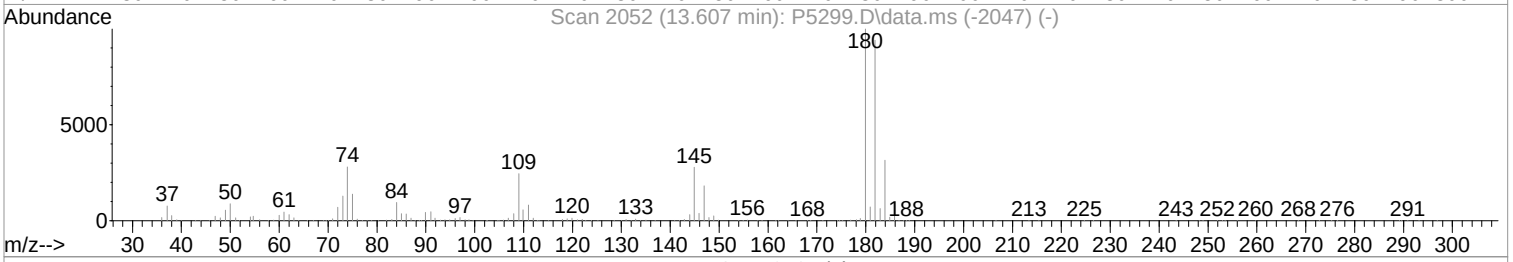
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5953.D
Acq On : 26 Oct 2016 10:21 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 11:26:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5953.D\data.ms

(115) 1,2,4-Tcbenzene (P)

13.601min (-0.006) 0.06 ppb

response 630

Ion	Exp%	Act%
180.00	100	100
182.00	94.10	79.59
145.00	27.80	36.10
0.00	0.00	0.00

Manual Integration:

Before

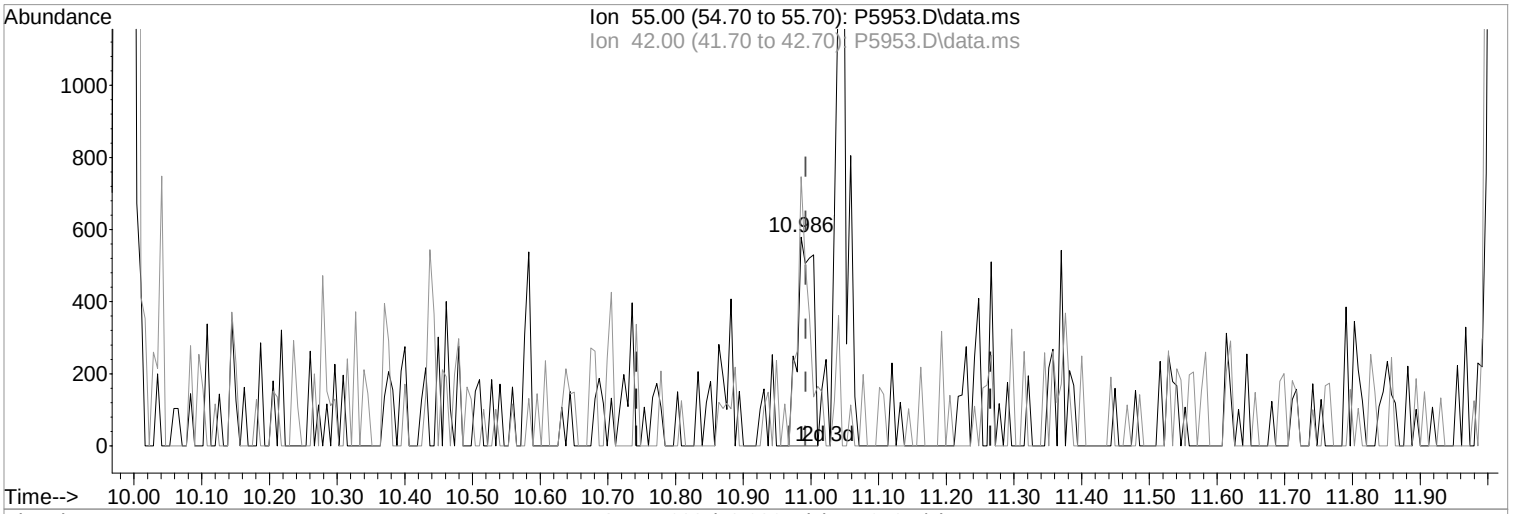
10/26/16

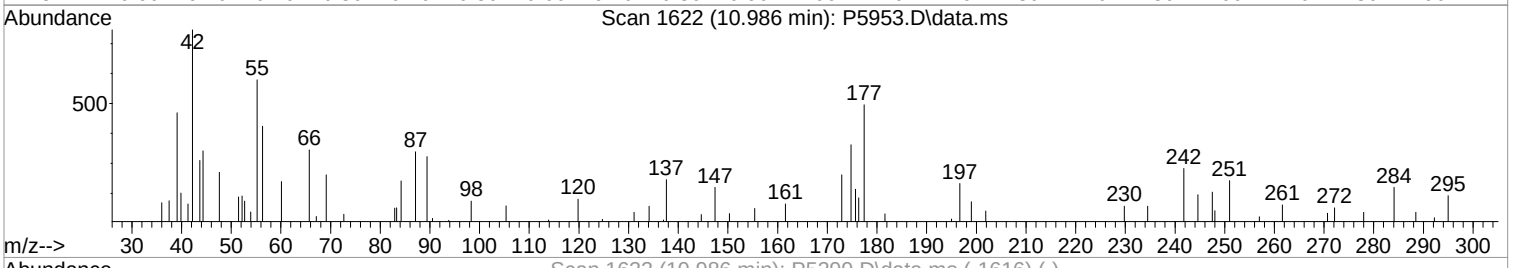
1st 10/26/16
2nd 10/27/16

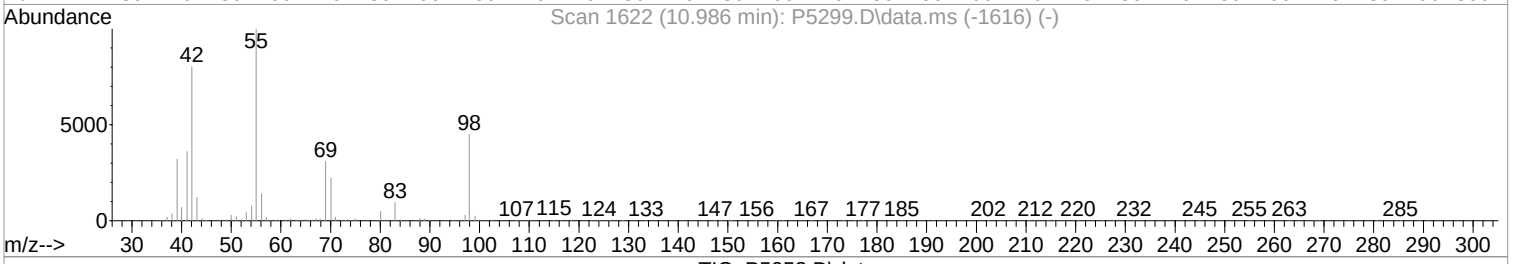
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5953.D
Acq On : 26 Oct 2016 10:21 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 11:26:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5953.D\data.ms

(90) Cyclohexanone

10.986min (-0.006) 3.47 ppb m

response 948

Ion	Exp%	Act%
55.00	100	100
42.00	80.20	128.84#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

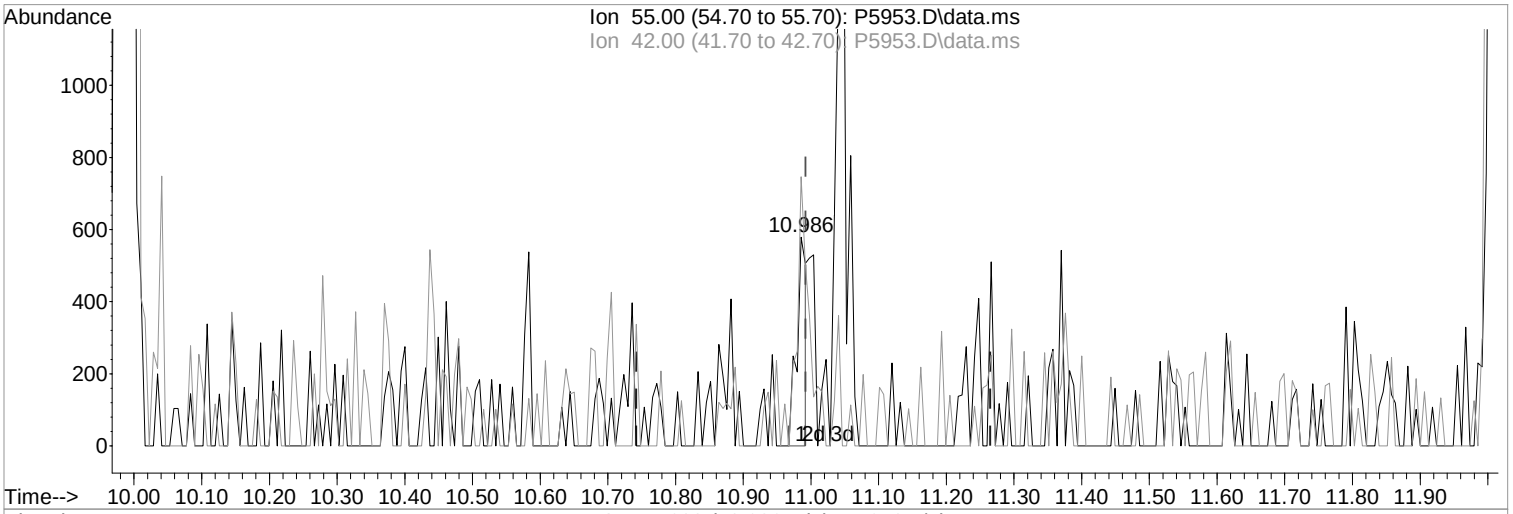
10/26/16

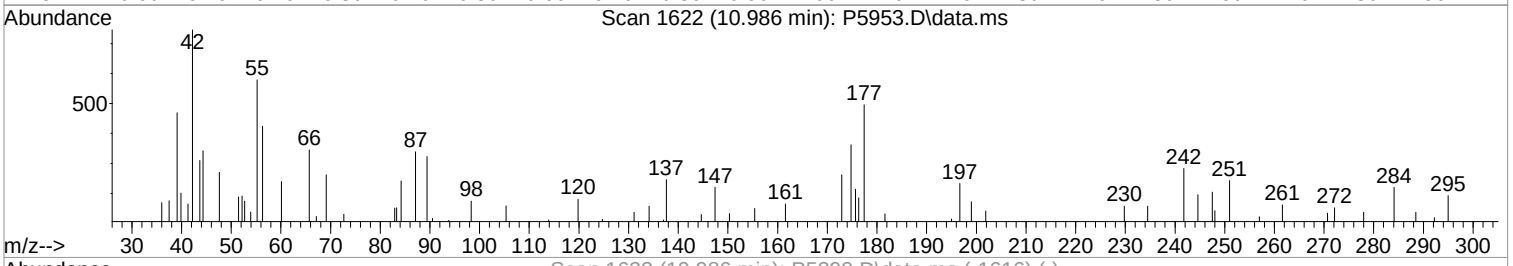
1st 10/26/16
2nd 10/27/16

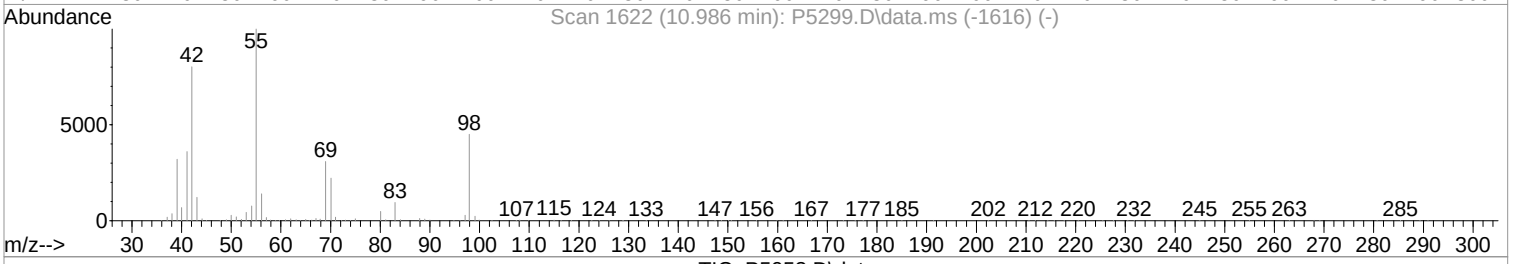
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5953.D
Acq On : 26 Oct 2016 10:21 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 11:26:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5953.D\data.ms

(90) Cyclohexanone

10.986min (-0.006) 2.06 ppb

response 563

Ion	Exp%	Act%
55.00	100	100
42.00	80.20	128.84#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5953.D
Acq On : 26 Oct 2016 10:21 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 12:04:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

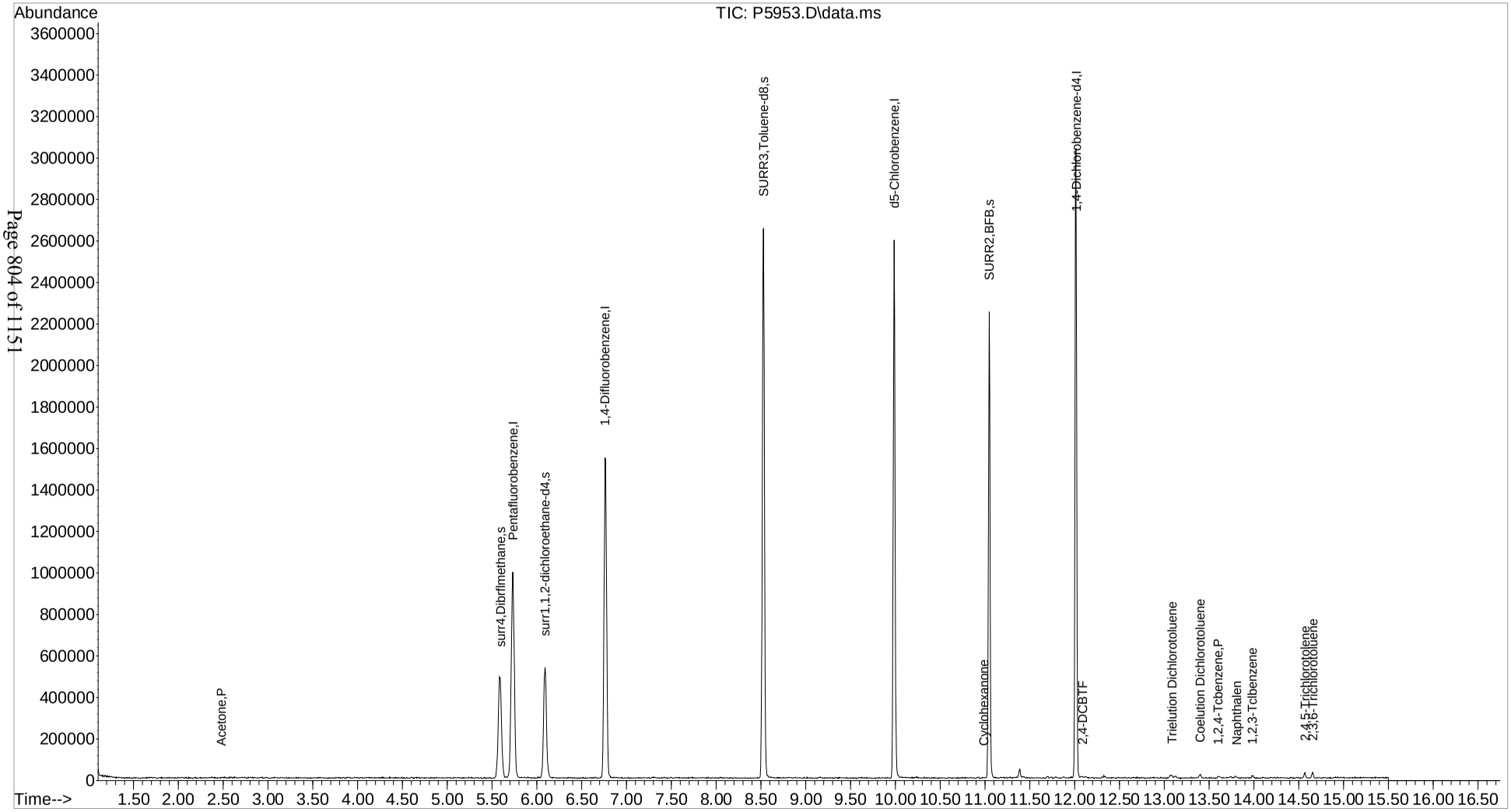
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	821142	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1315339	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1188453	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	626401	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	378713	53.95	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.90%				
48) surr1,1,2-dichloroetha...	6.090	65	423312	53.08	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.16%				
65) SURR3,Toluene-d8	8.529	98	1626059	56.53	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.06%				
70) SURR2,BFB	11.047	95	590298	52.60	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.20%				
Target Compounds							Qvalue
15) Acetone	2.481	43	1001	0.75	ppb		72
90) Cyclohexanone	10.986	55	948m	3.47	ppb		
107) 2,4-DCBTF	12.083	214	1525	0.23	ppb	#	59
112) Trielution Dichlorotol...	13.083	125	5935	0.49	ppb	#	78
114) Coelution Dichlorotoluene	13.400	125	4842	0.37	ppb	#	90
115) 1,2,4-Tcbenzene	13.601	180	2287m	0.24	ppb		
117) Naphthalen	13.802	128	4919	0.29	ppb		88
118) 1,2,3-Tclbenzene	13.985	180	2558	0.31	ppb	#	74
119) 2,4,5-Trichlorotolene	14.570	159	5201	0.88	ppb	#	76
120) 2,3,6-Trichlorotoluene	14.656	159	4366	0.80	ppb		87

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

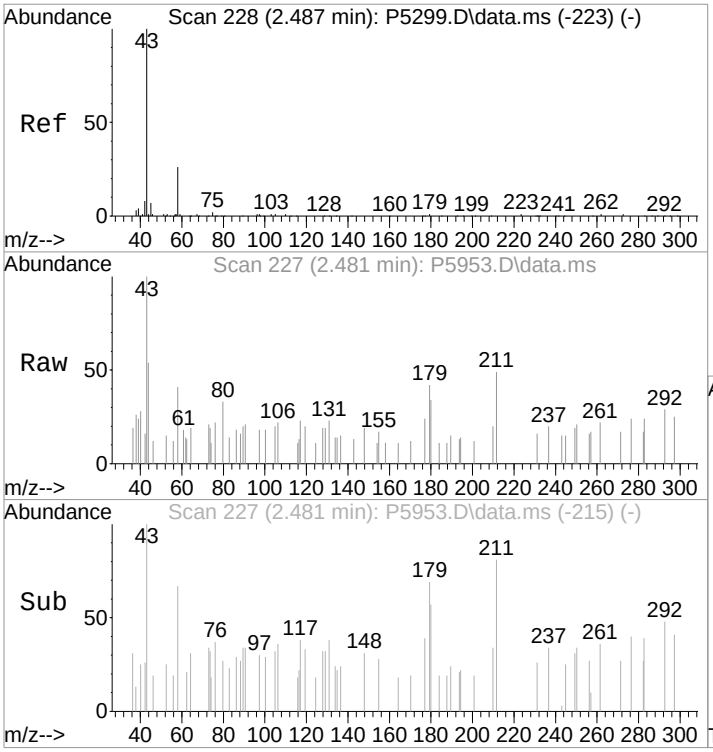
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5953.D
Acq On : 26 Oct 2016 10:21 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 12:04:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



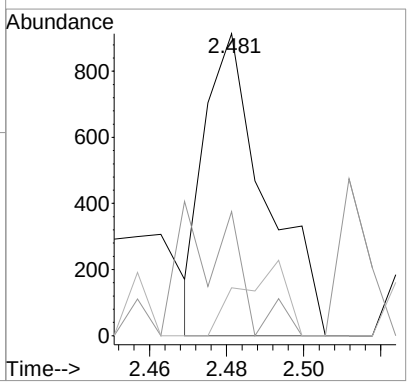
1st 10/26/16
2nd 10/27/16

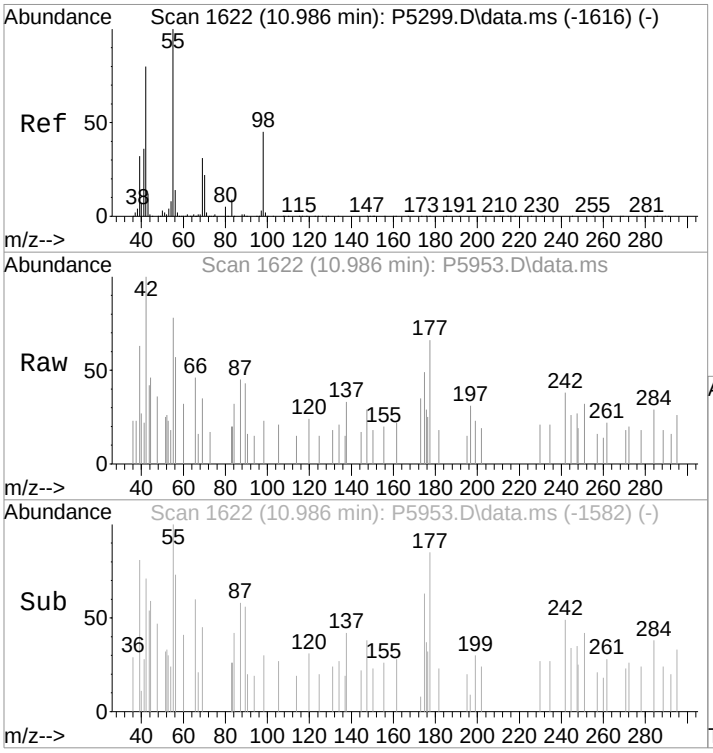


#15
Acetone
Concen: 0.75 ppb
RT: 2.481 min Scan# 227
Delta R.T. -0.000 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion: 43 Resp: 1001

Ion	Ratio	Lower	Upper
43	100		
58	41.0	5.3	45.3
42	15.9	0.0	28.7

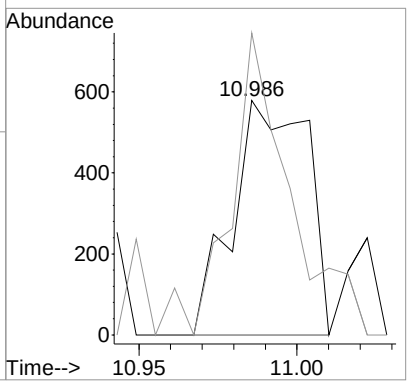


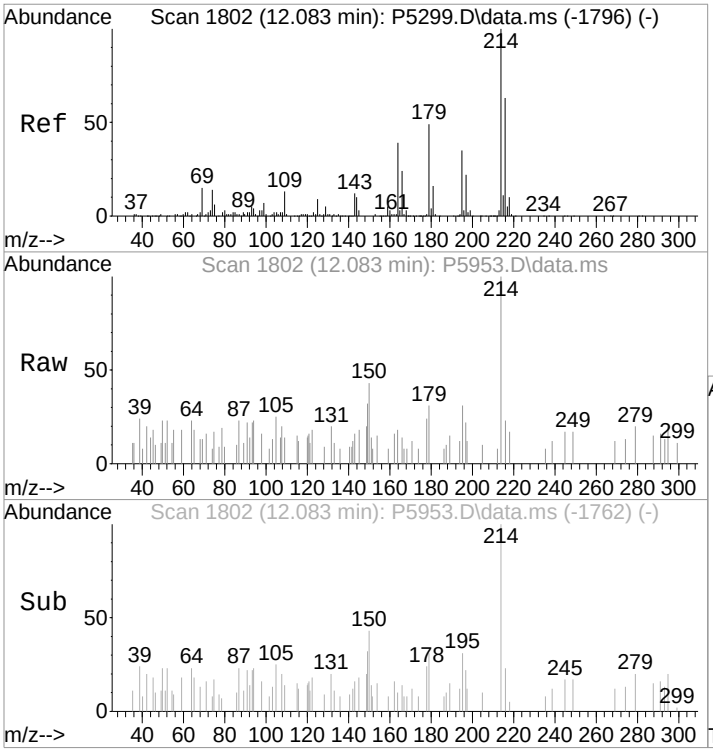


#90
Cyclohexanone
Concen: 3.47 ppb m
RT: 10.986 min Scan# 1622
Delta R.T. -0.006 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion: 55 Resp: 948

Ion	Ratio	Lower	Upper
55	100		
42	128.8	60.2	100.2#

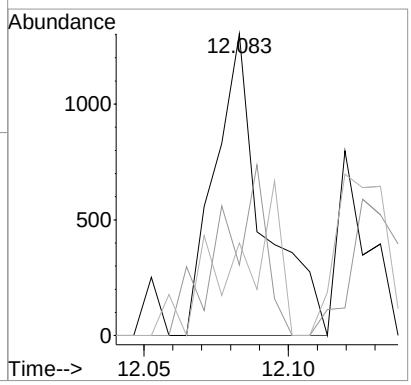


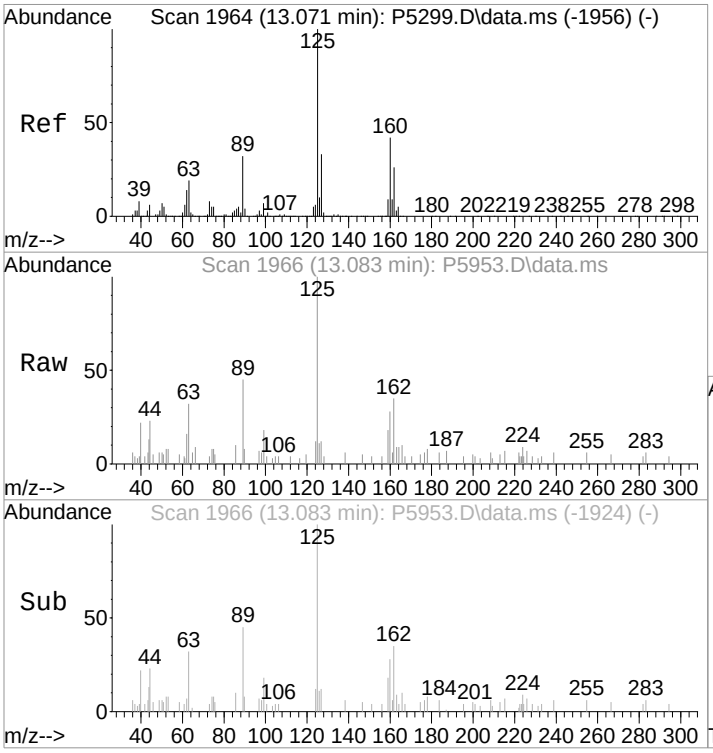


#107
2,4-DCBTF
Concen: 0.23 ppb
RT: 12.083 min Scan# 1802
Delta R.T. -0.006 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:214 Resp: 1525

Ion	Ratio	Lower	Upper
214	100		
216	23.3	50.6	75.8#
179	30.7	39.0	58.6#

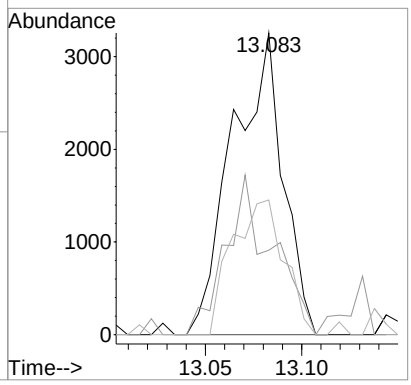


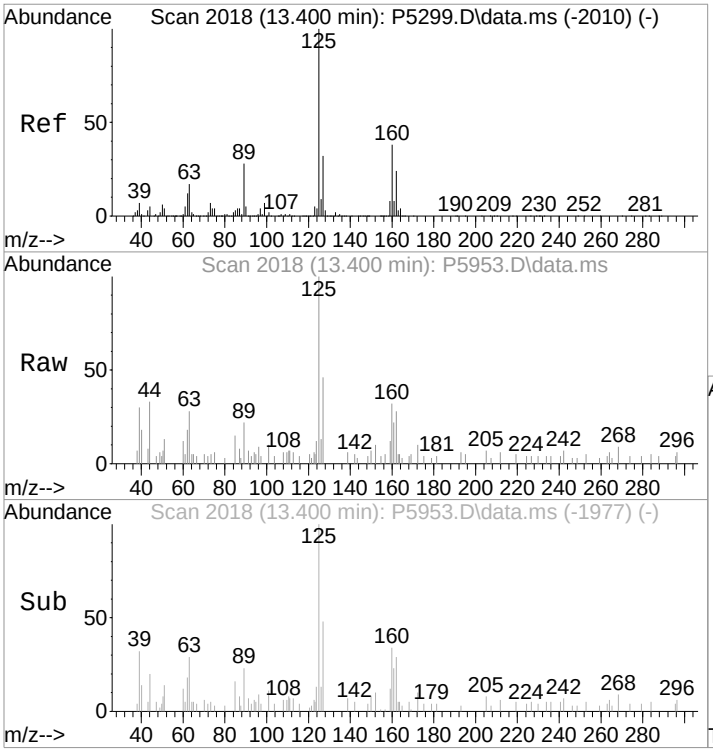


#112
Trielution Dichlorotoluene
Concen: 0.49 ppb
RT: 13.083 min Scan# 1966
Delta R.T. 0.006 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:125 Resp: 5935

Ion	Ratio	Lower	Upper
125	100		
160	27.9	33.6	50.4#
89	44.6	25.8	38.8#

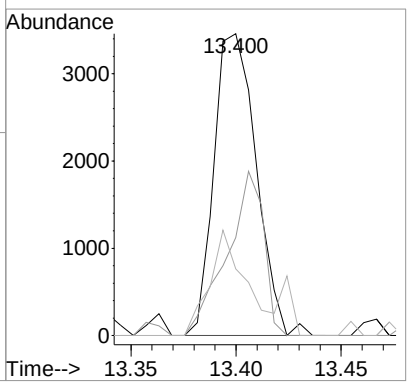


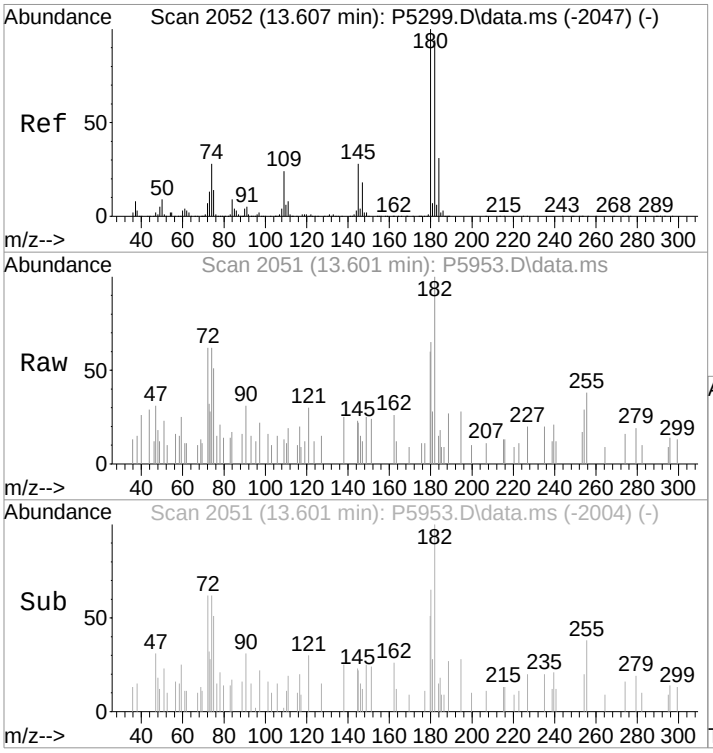


#114
Coelution Dichlorotoluene
Concen: 0.37 ppb
RT: 13.400 min Scan# 2018
Delta R.T. -0.000 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:125 Resp: 4842

Ion	Ratio	Lower	Upper
125	100		
160	32.5	30.2	45.2
89	22.1	22.7	34.1#

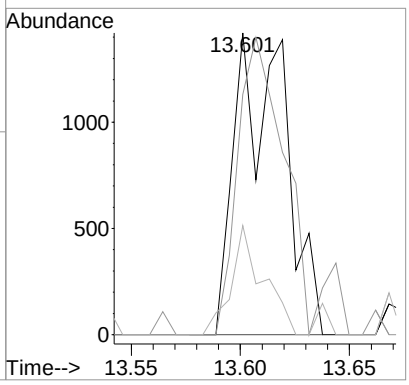


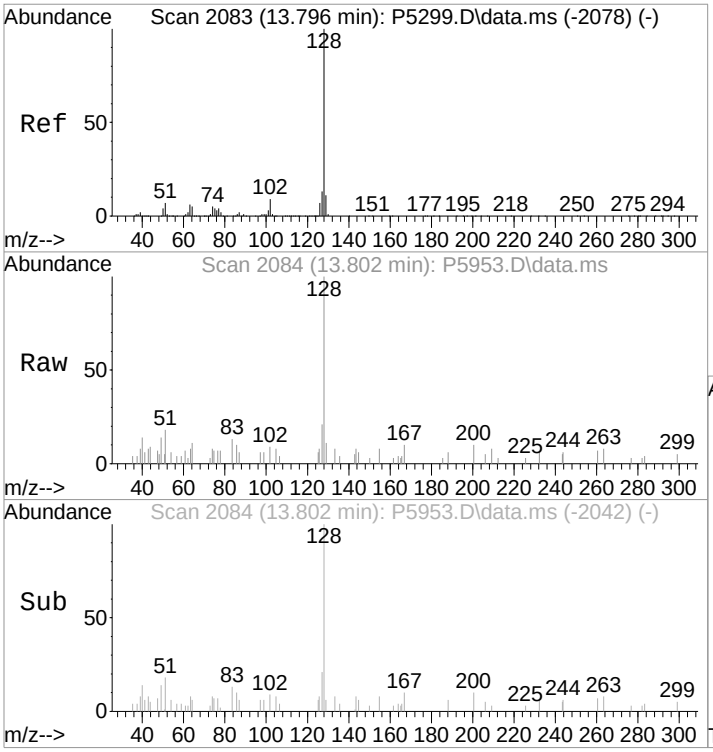


#115
1,2,4-Tcbenzene
Concen: 0.24 ppb m
RT: 13.601 min Scan# 2051
Delta R.T. -0.006 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:180 Resp: 2287

Ion	Ratio	Lower	Upper
180	100		
182	152.8	74.1	114.1#
145	35.7	7.8	47.8

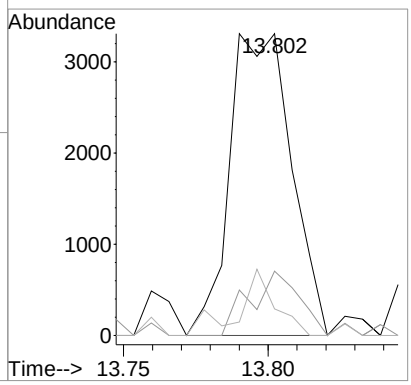


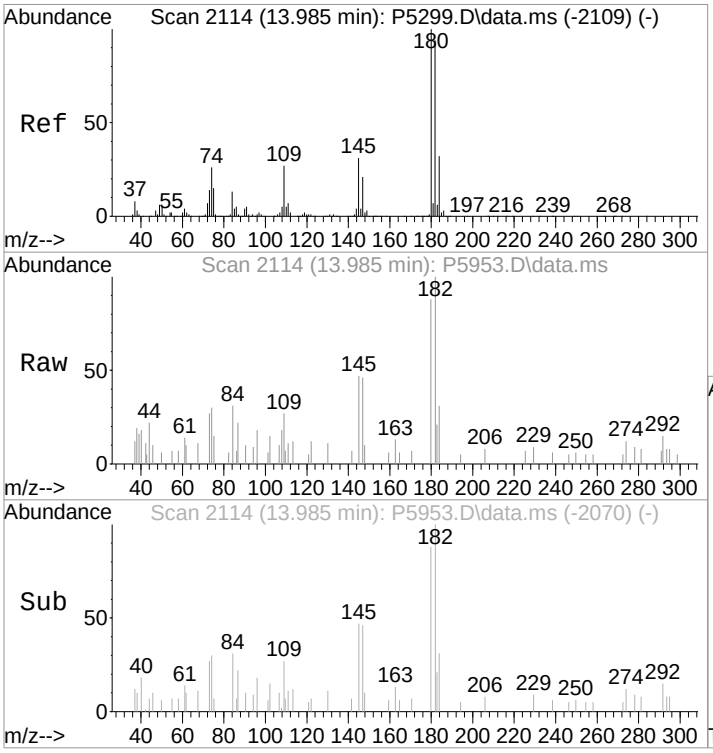


#117
Naphthalen
Concen: 0.29 ppb
RT: 13.802 min Scan# 2084
Delta R.T. -0.000 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:128 Resp: 4919

Ion	Ratio	Lower	Upper
128	100		
127	21.3	0.0	33.2
102	8.8	0.0	29.2

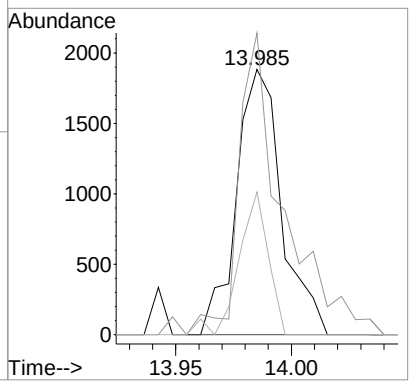


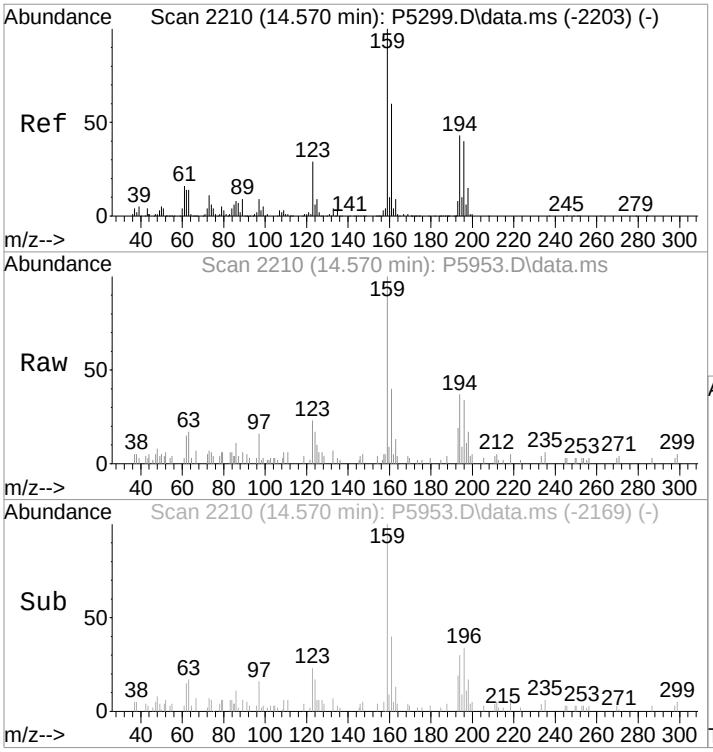


#118
1,2,3-Tclbenzene
Concen: 0.31 ppb
RT: 13.985 min Scan# 2114
Delta R.T. -0.000 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:180 Resp: 2558

Ion	Ratio	Lower	Upper
180	100		
182	113.9	73.9	113.9
145	53.8	11.2	51.2#

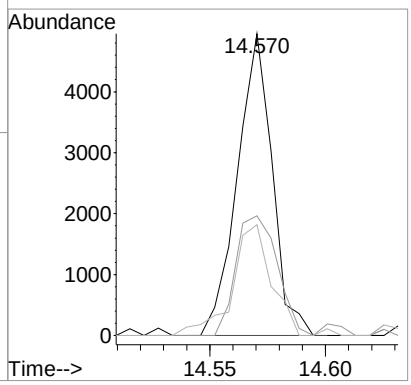


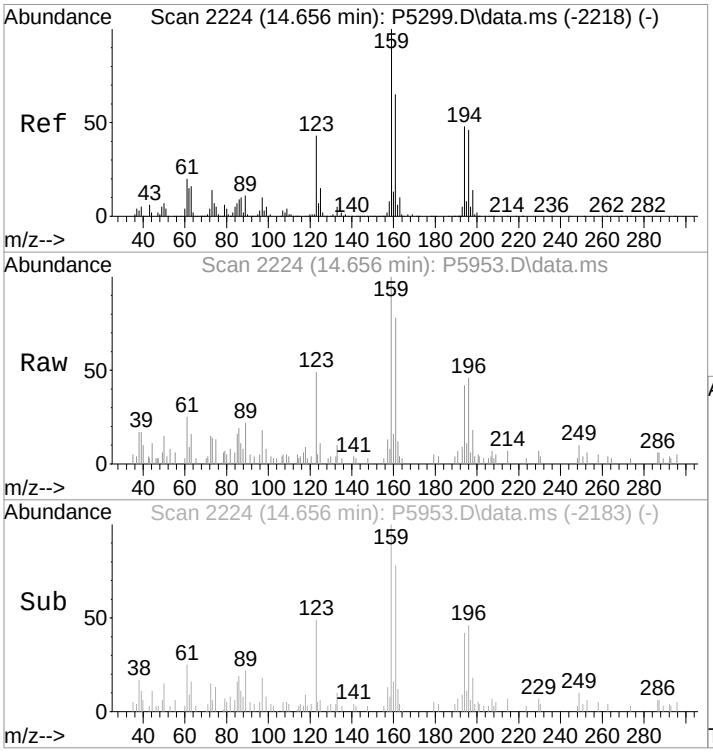


#119
2,4,5-Trichlorotolene
Concen: 0.88 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:159 Resp: 5201

Ion	Ratio	Lower	Upper
159	100		
161	36.5	48.1	72.1#
194	33.7	34.5	51.7#

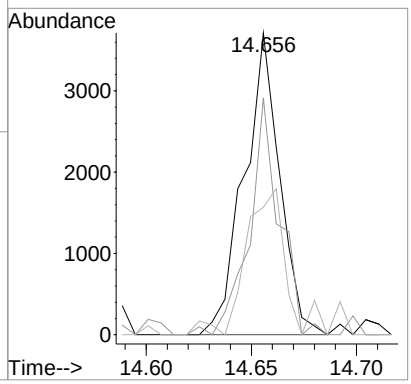




#120
2,3,6-Trichlorotoluene
Concen: 0.80 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P5953.D
Acq: 26 Oct 2016 10:21 am

Tgt Ion:159 Resp: 4366

Ion	Ratio	Lower	Upper
159	100		
161	78.4	52.3	78.5
194	42.2	38.6	57.8



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6003.D
Acq On : 27 Oct 2016 12:50 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 14:54:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

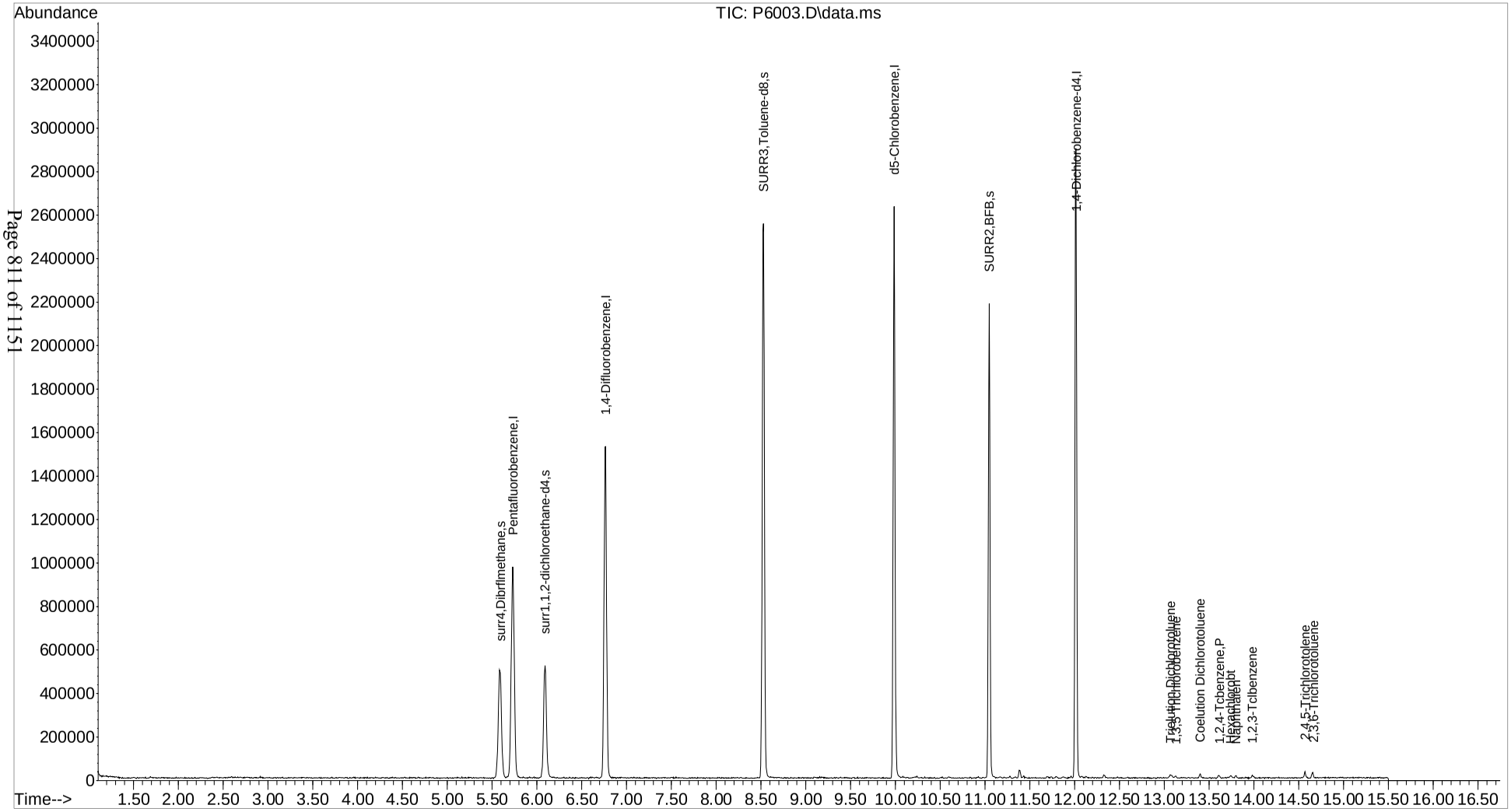
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	807373	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1311794	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1198896	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	617860	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	385517	55.06	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.12%				
48) surr1,1,2-dichloroetha...	6.090	65	401920	50.54	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.08%				
65) SURR3,Toluene-d8	8.529	98	1609827	56.11	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.22%				
70) SURR2,BFB	11.047	95	575278	51.40	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.80%				
Target Compounds							Qvalue
112) Trielution Dichlorotol...	13.071	125	7333	0.61	ppb	#	70
113) 1,3,5 Trichlorobenzene	13.132	180	2589	0.25	ppb	#	40
114) Coelution Dichlorotoluene	13.400	125	5666	0.44	ppb	#	79
115) 1,2,4-Tcbenzene	13.613	180	3088	0.32	ppb	#	75
116) Hexachlorobt	13.741	225	1818	0.45	ppb	#	56
117) Naphthalen	13.796	128	5104	0.31	ppb		75
118) 1,2,3-Tclbenzene	13.985	180	2655	0.32	ppb	#	73
119) 2,4,5-Trichlorotolene	14.570	159	5710	0.98	ppb		91
120) 2,3,6-Trichlorotoluene	14.662	159	4021	0.75	ppb	#	86

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

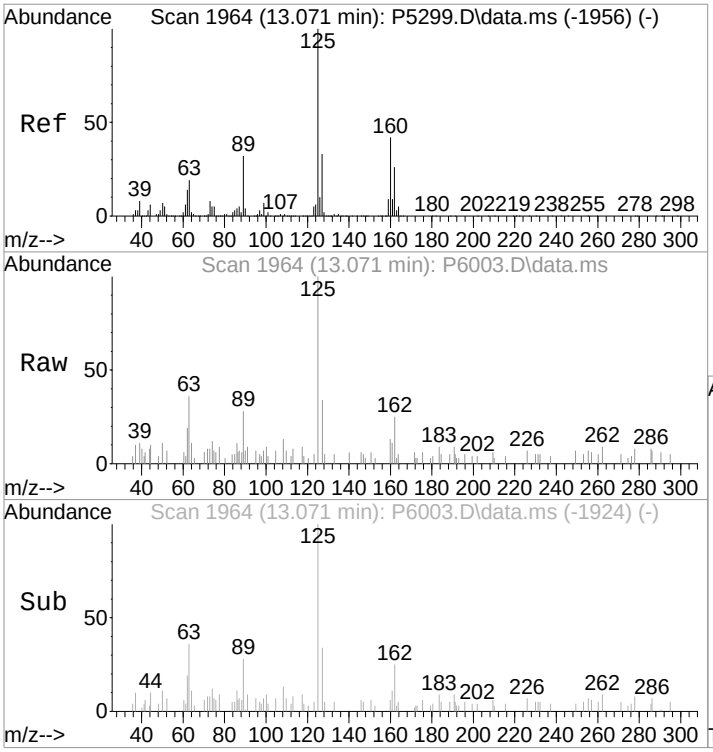
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6003.D
Acq On : 27 Oct 2016 12:50 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 14:54:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



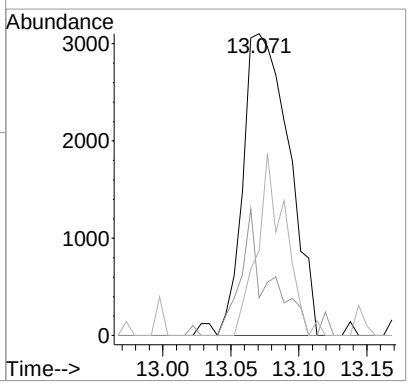
1st 10/27/16
2nd 10/31/16

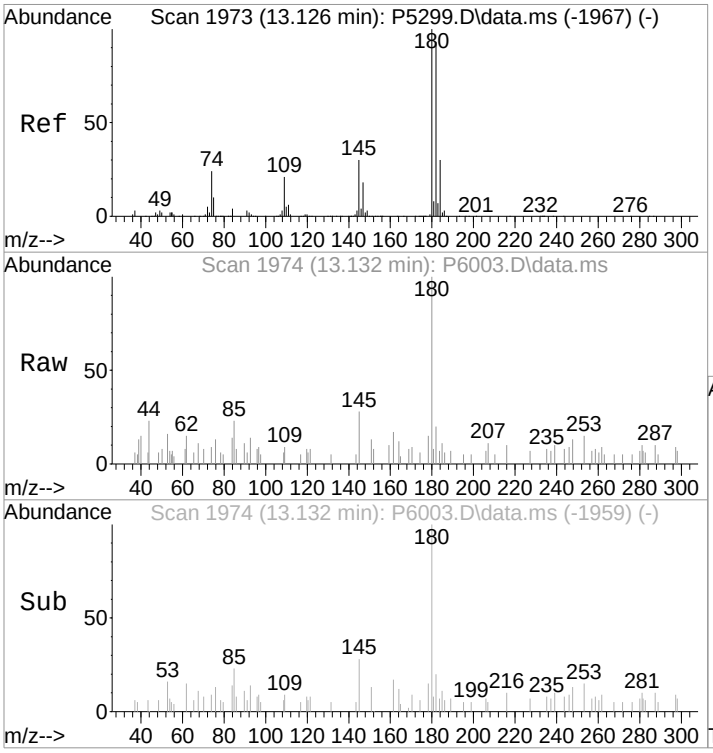


#112
Trielution Dichlorotoluene
Concen: 0.61 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.006 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:125 Resp: 7333

Ion	Ratio	Lower	Upper
125	100		
160	12.6	33.6	50.4#
89	28.1	25.8	38.8

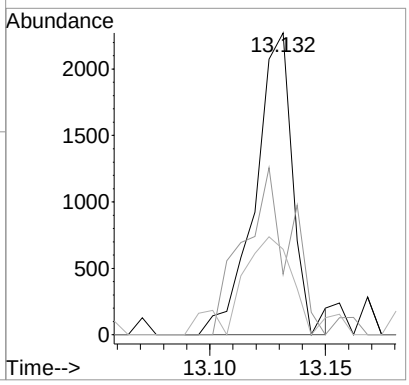


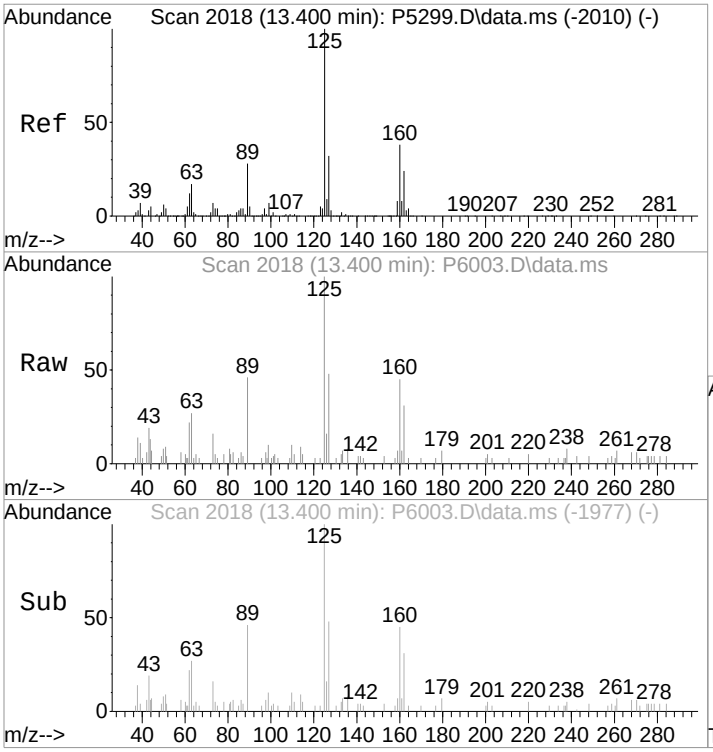


#113
1,3,5 Trichlorobenzene
Concen: 0.25 ppb
RT: 13.132 min Scan# 1974
Delta R.T. -0.000 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:180 Resp: 2589

Ion	Ratio	Lower	Upper
180	100		
182	18.6	74.6	111.8#
145	26.3	23.9	35.9

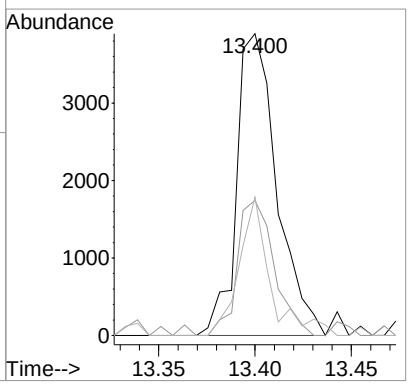


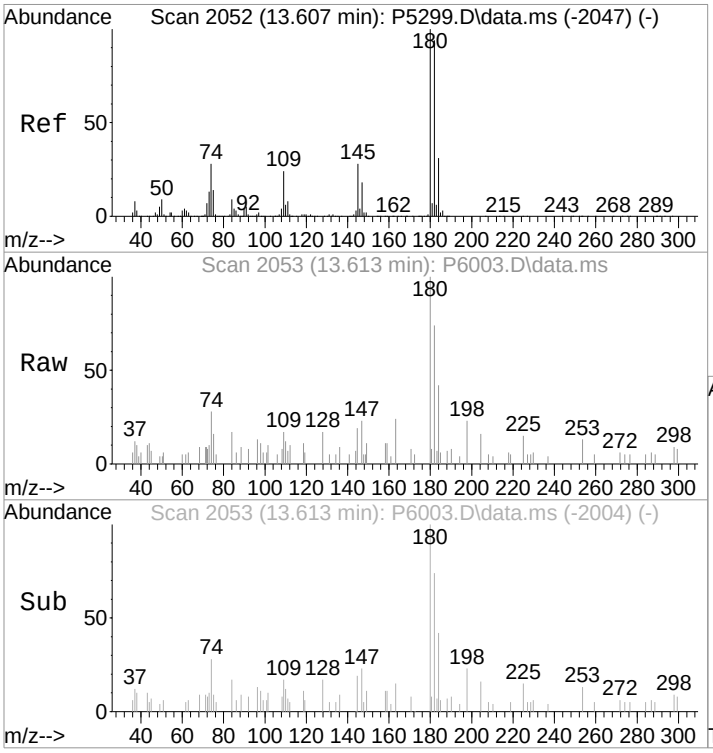


#114
Coelution Dichlorotoluene
Concen: 0.44 ppb
RT: 13.400 min Scan# 2018
Delta R.T. -0.000 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:125 Resp: 5666

Ion	Ratio	Lower	Upper
125	100		
160	44.7	30.2	45.2
89	45.8	22.7	34.1#

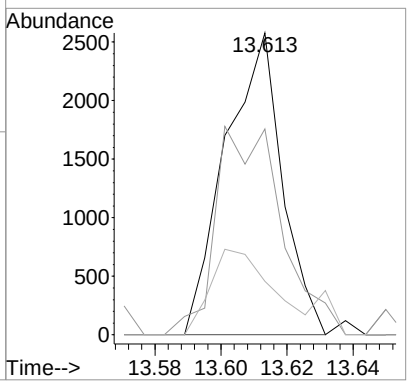


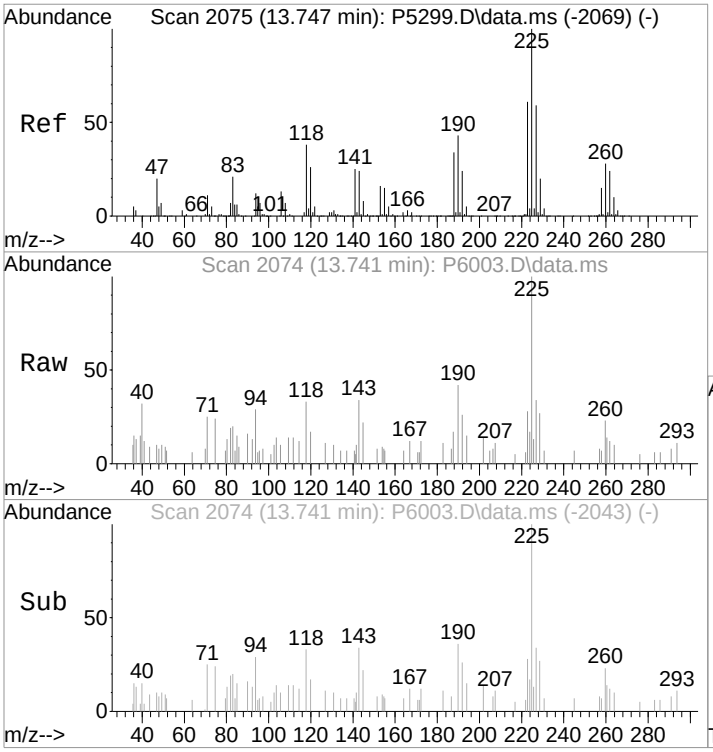


#115
1,2,4-Tcbenzene
Concen: 0.32 ppb
RT: 13.613 min Scan# 2053
Delta R.T. 0.006 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:180 Resp: 3088

Ion	Ratio	Lower	Upper
180	100		
182	68.2	74.1	114.1#
145	17.7	7.8	47.8

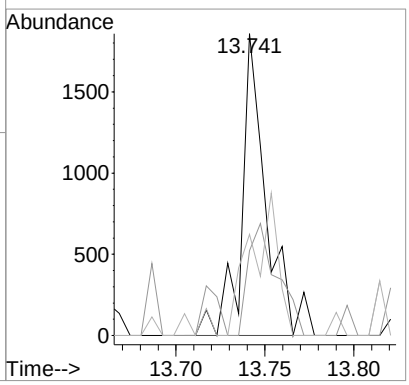


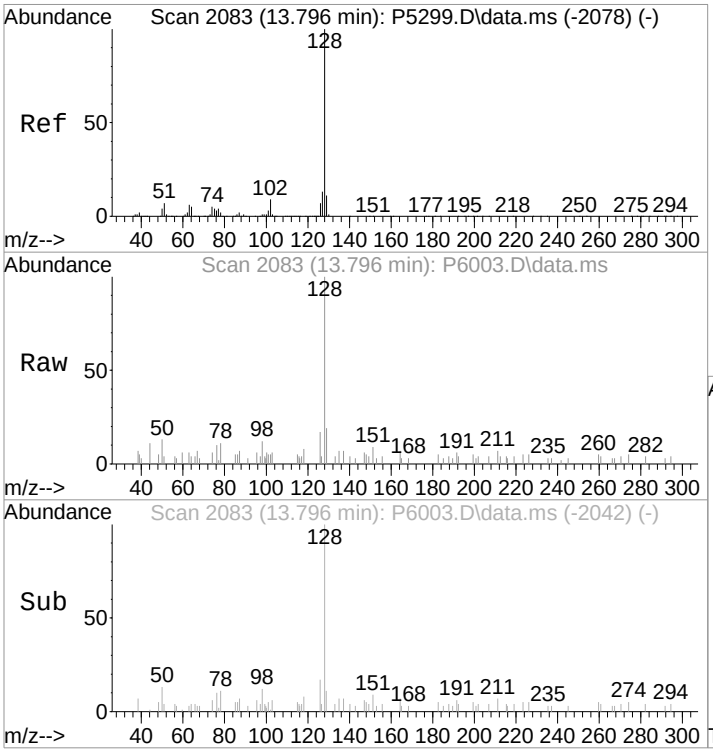


#116
Hexachlorobt
Concen: 0.45 ppb
RT: 13.741 min Scan# 2074
Delta R.T. -0.006 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:225 Resp: 1818

Ion	Ratio	Lower	Upper
225	100		
223	24.8	41.4	81.4#
227	29.6	39.1	79.1#

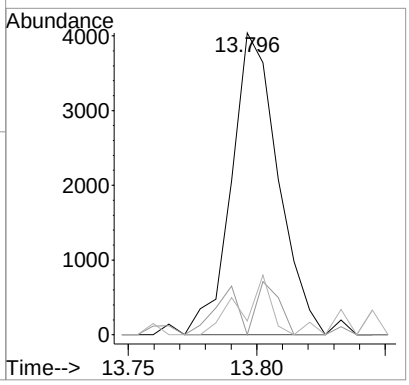


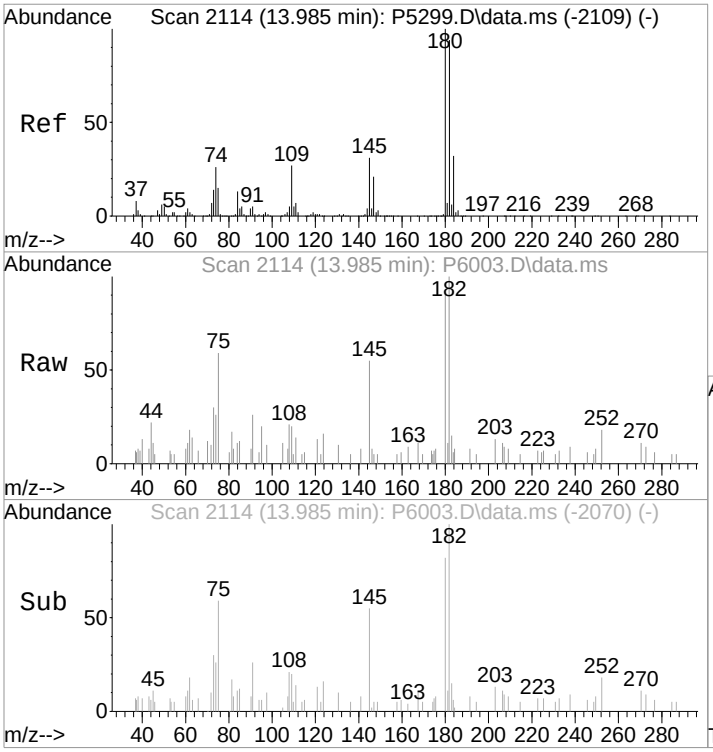


#117
Naphthalen
Concen: 0.31 ppb
RT: 13.796 min Scan# 2083
Delta R.T. -0.006 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:128 Resp: 5104

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	33.2
102	4.6	0.0	29.2

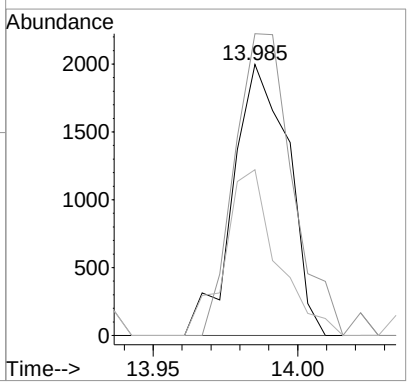


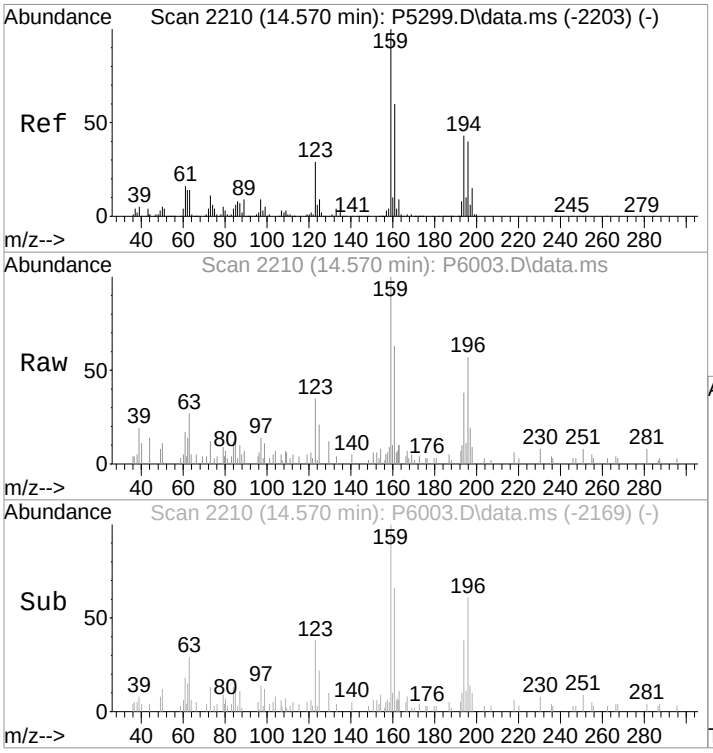


#118
1,2,3-Tclbenzene
Concen: 0.32 ppb
RT: 13.985 min Scan# 2114
Delta R.T. -0.000 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:180 Resp: 2655

Ion	Ratio	Lower	Upper
180	100		
182	111.4	73.9	113.9
145	61.2	11.2	51.2#

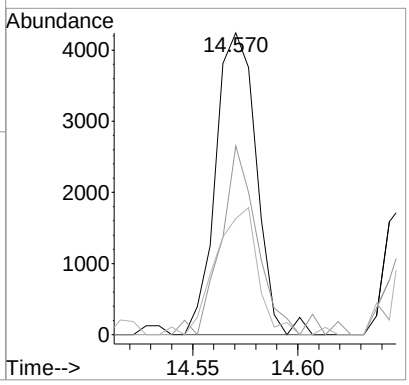


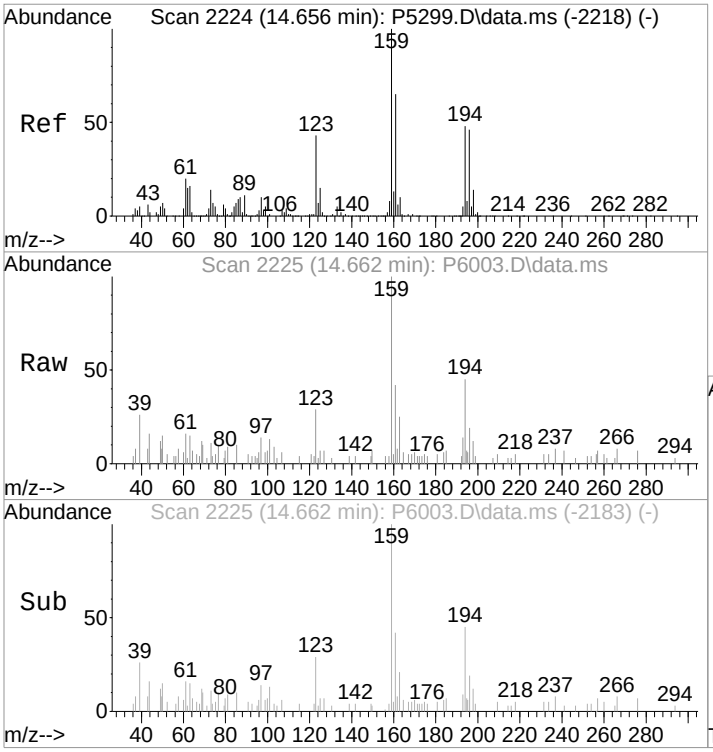


#119
2,4,5-Trichlorotolene
Concen: 0.98 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.000 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:159 Resp: 5710

Ion	Ratio	Lower	Upper
159	100		
161	68.4	48.1	72.1
194	38.5	34.5	51.7

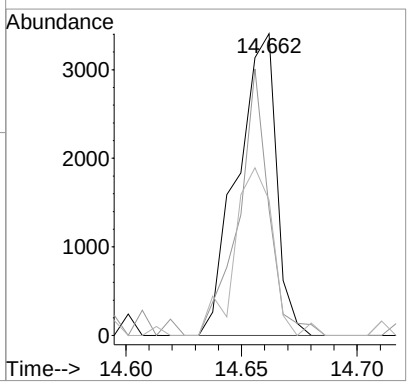




#120
2,3,6-Trichlorotoluene
Concen: 0.75 ppb
RT: 14.662 min Scan# 2225
Delta R.T. 0.006 min
Lab File: P6003.D
Acq: 27 Oct 2016 12:50 pm

Tgt Ion:159 Resp: 4021

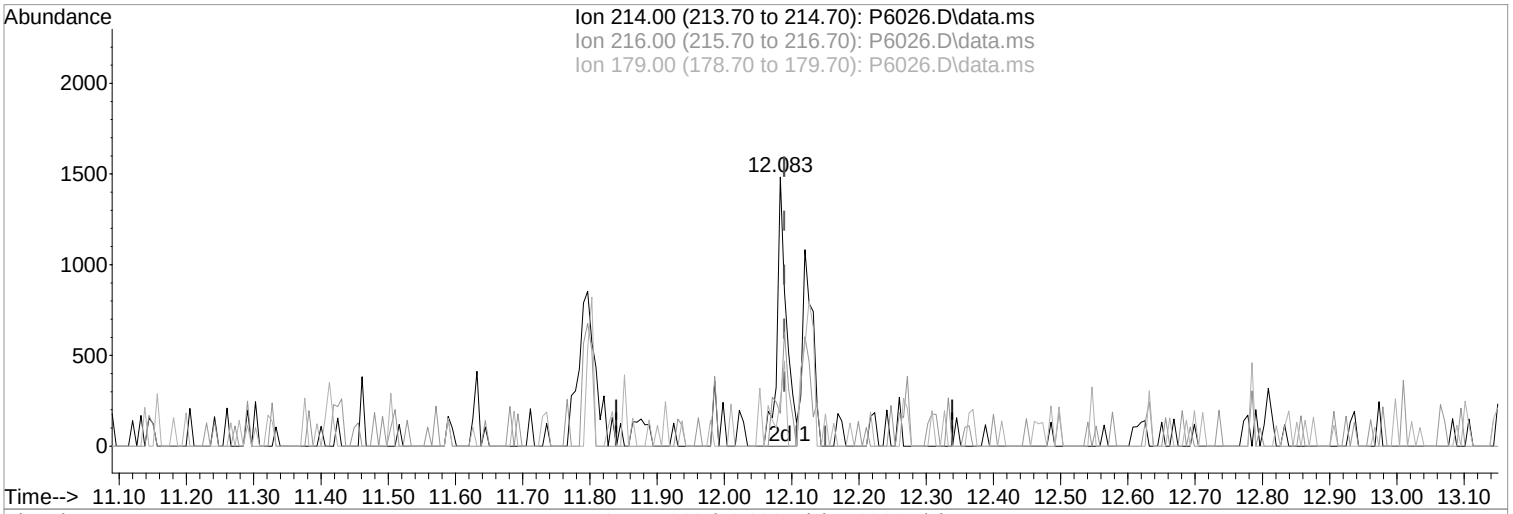
Ion	Ratio	Lower	Upper
159	100		
161	49.4	52.3	78.5#
194	51.6	38.6	57.8

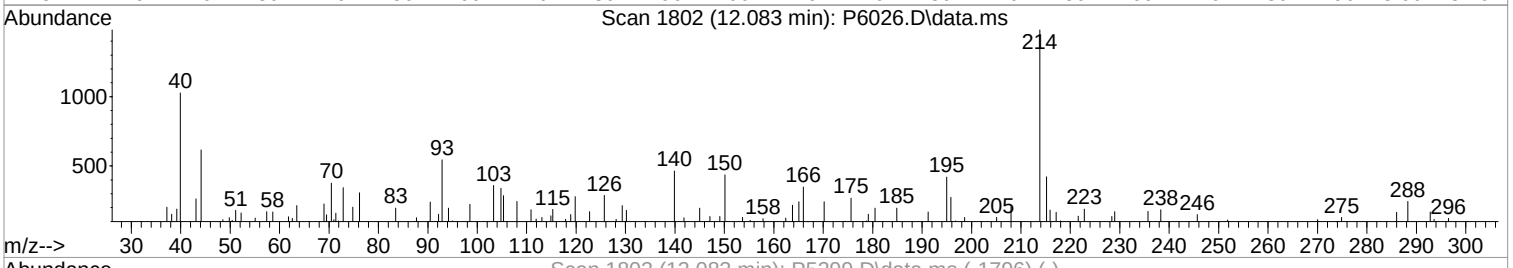


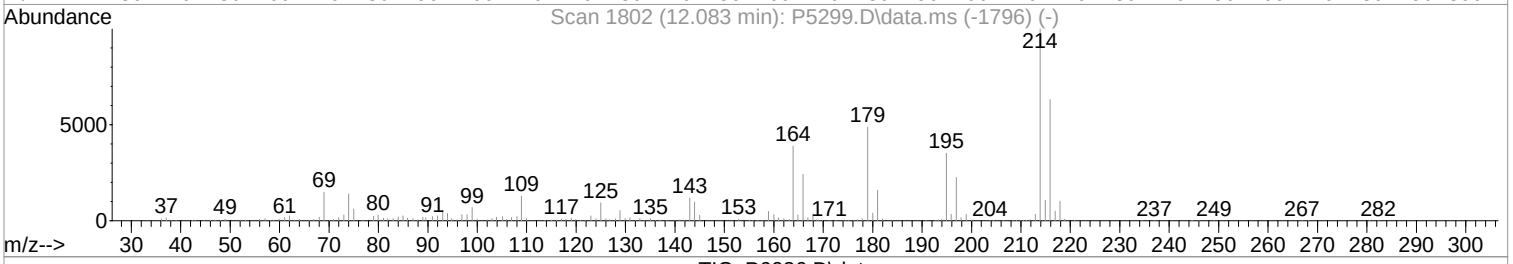
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 09:04:27 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6026.D\data.ms

(107) 2,4-DCBTF

12.083min (-0.006) 0.22 ppb m

response 1440

Ion	Exp%	Act%
214.00	100	100
216.00	63.20	12.20#
179.00	48.80	10.18#
0.00	0.00	0.00

Manual Integration:

After

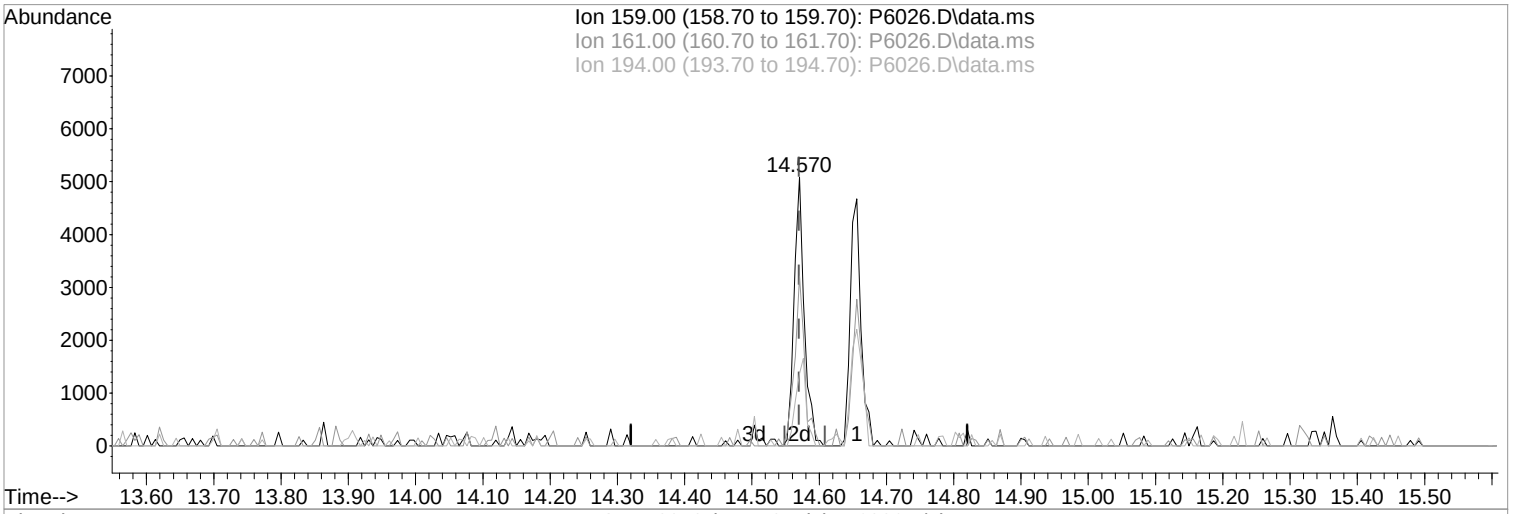
Wrong peak selected.

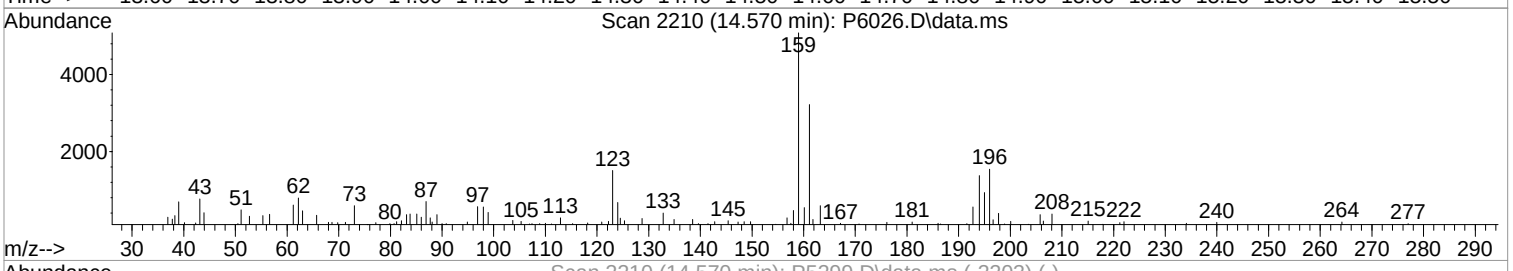
10/28/16

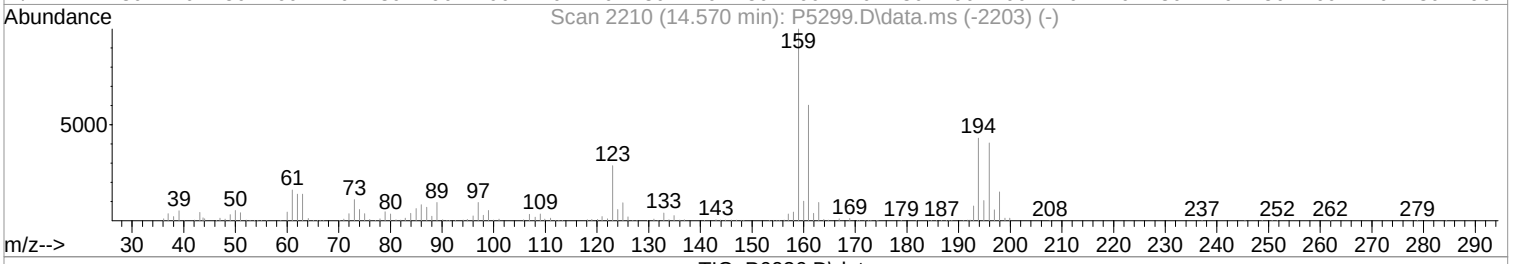
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 09:04:27 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6026.D\data.ms

(119) 2,4,5-Trichlorotolene

14.570min (+0.000) 0.95 ppb m

response 5432

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	63.21
194.00	43.10	26.95#
0.00	0.00	0.00

Manual Integration:

After

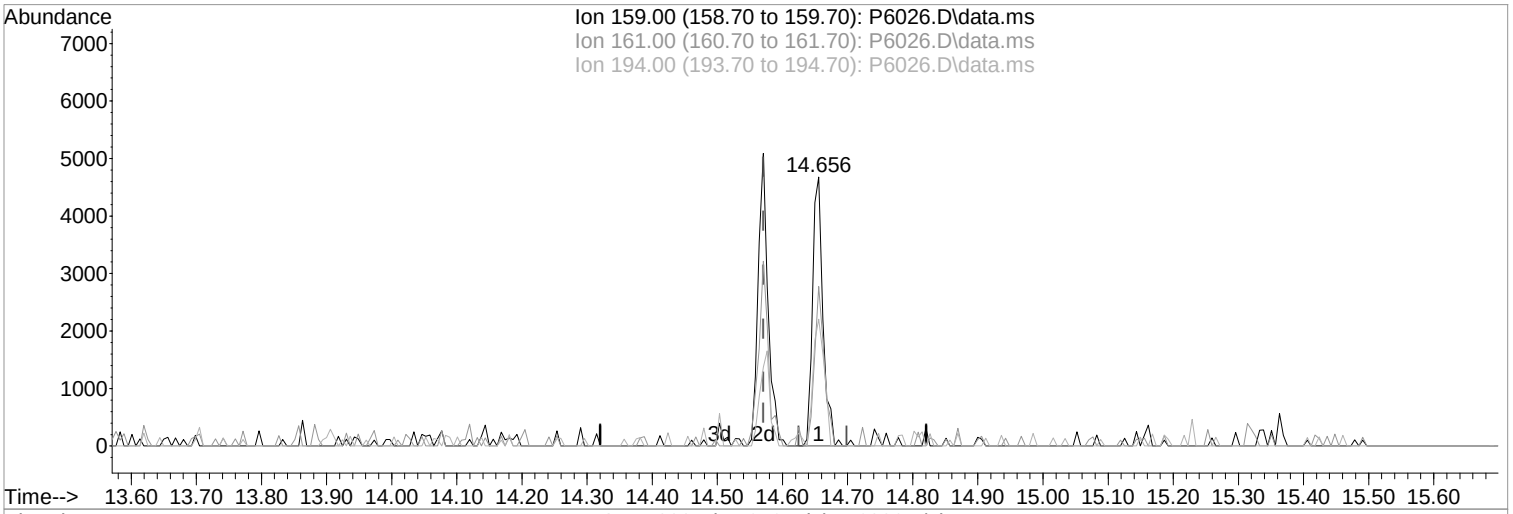
Wrong peak selected.

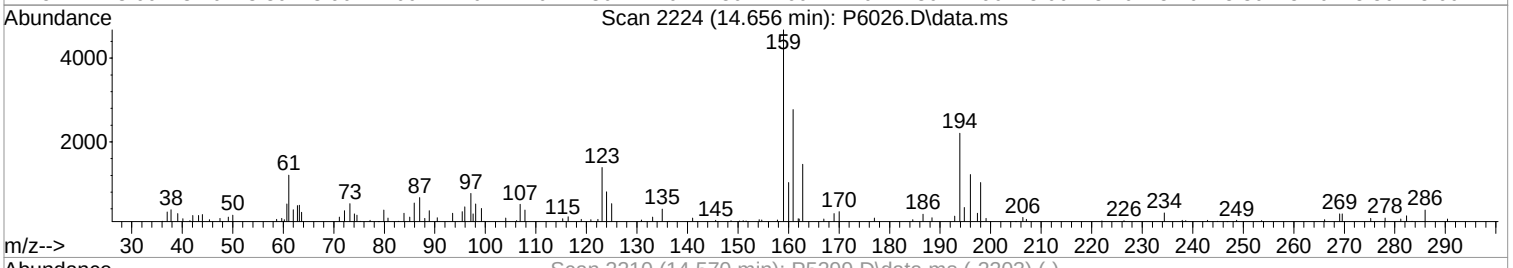
10/28/16

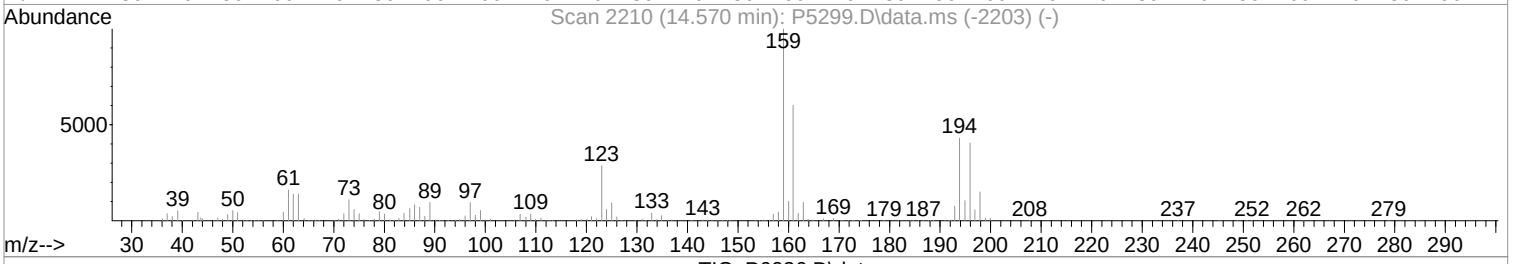
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 09:04:27 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6026.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.085) 0.92 ppb

response 5238

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	59.26
194.00	43.10	47.16
0.00	0.00	0.00

Manual Integration:

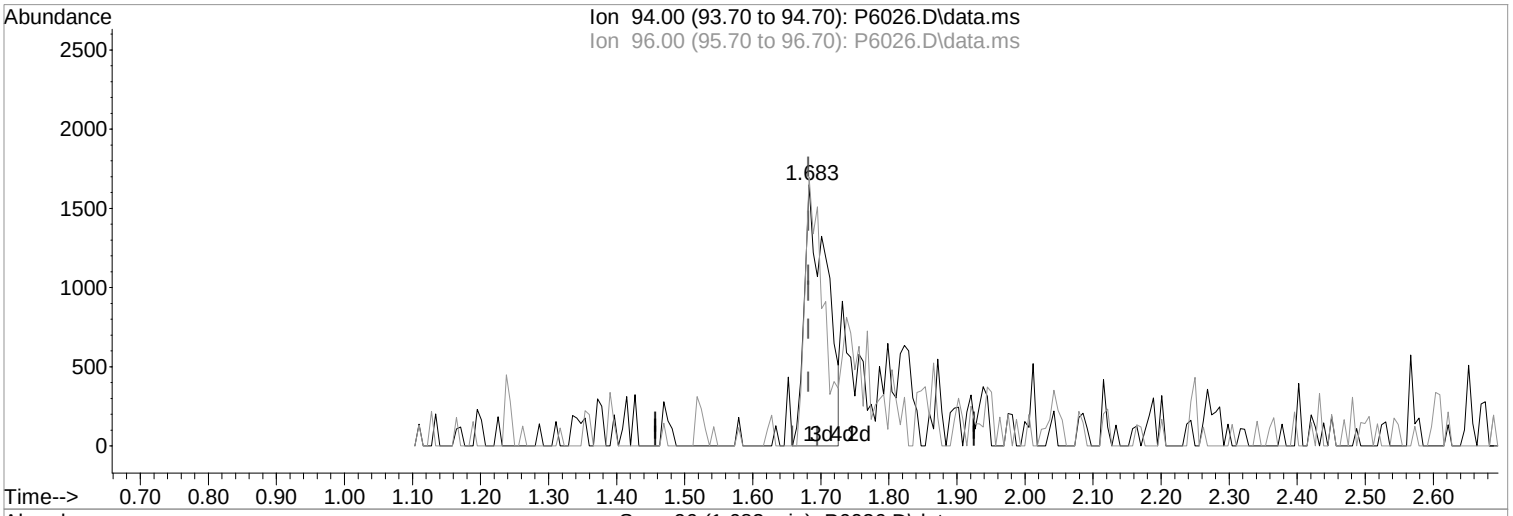
Before

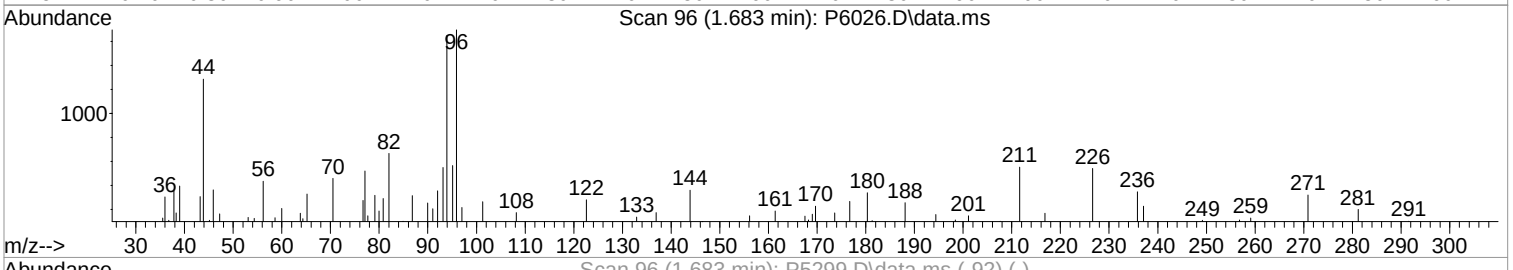
10/28/16

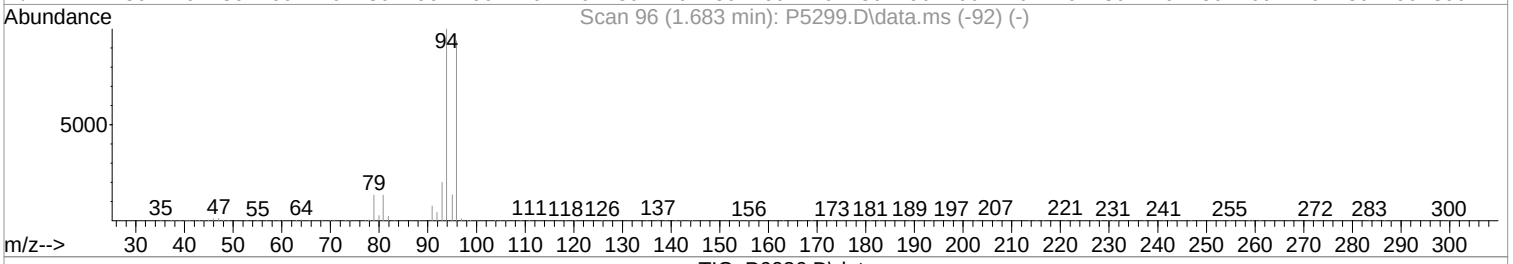
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 09:04:27 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6026.D\data.ms

(5) Bromomethane (P)

1.683min (+0.001) 0.67 ppb m

response 3737

Ion	Exp%	Act%
94.00	100	100
96.00	93.80	102.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

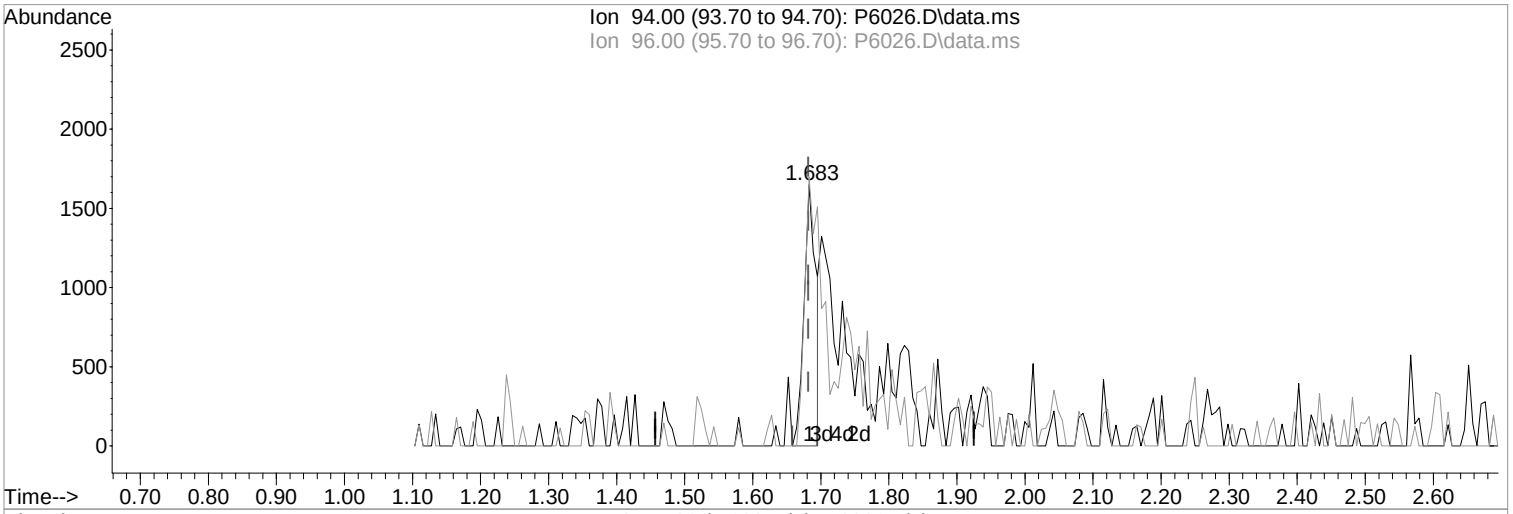
Split Peak

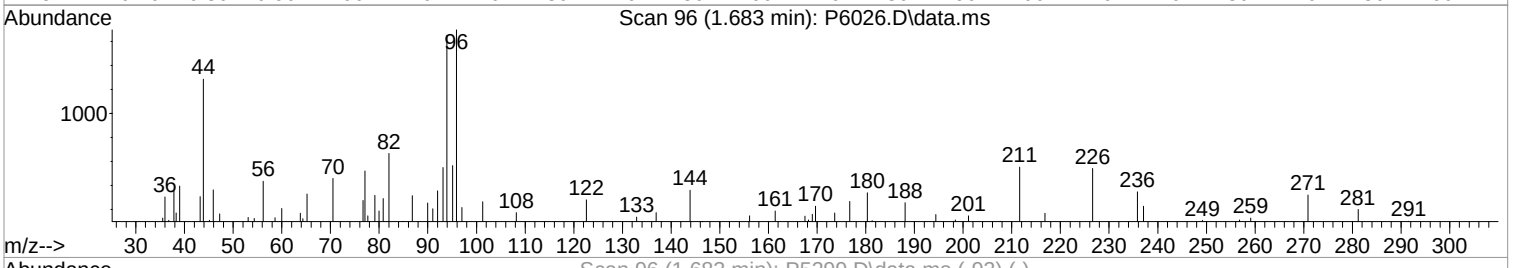
10/28/16

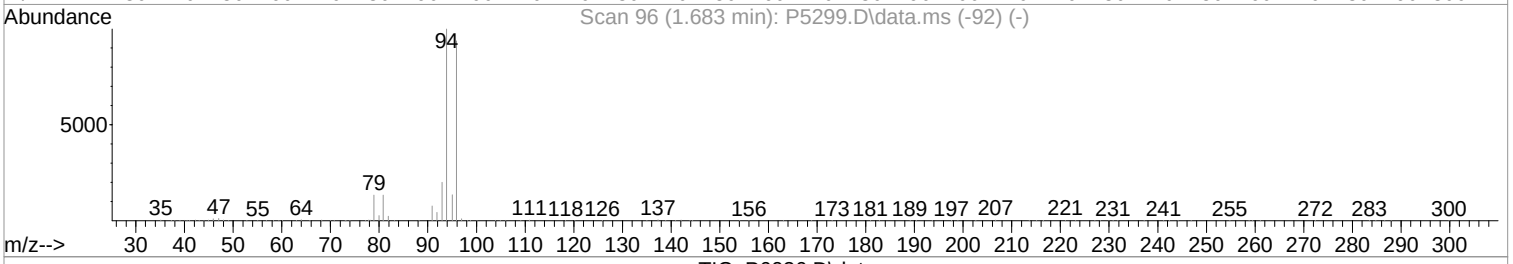
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 09:04:27 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6026.D\data.ms

(5) Bromomethane (P)

1.683min (+0.001) 0.20 ppb

response 2006

Ion	Exp%	Act%
94.00	100	100
96.00	93.80	102.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 16:40:24 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

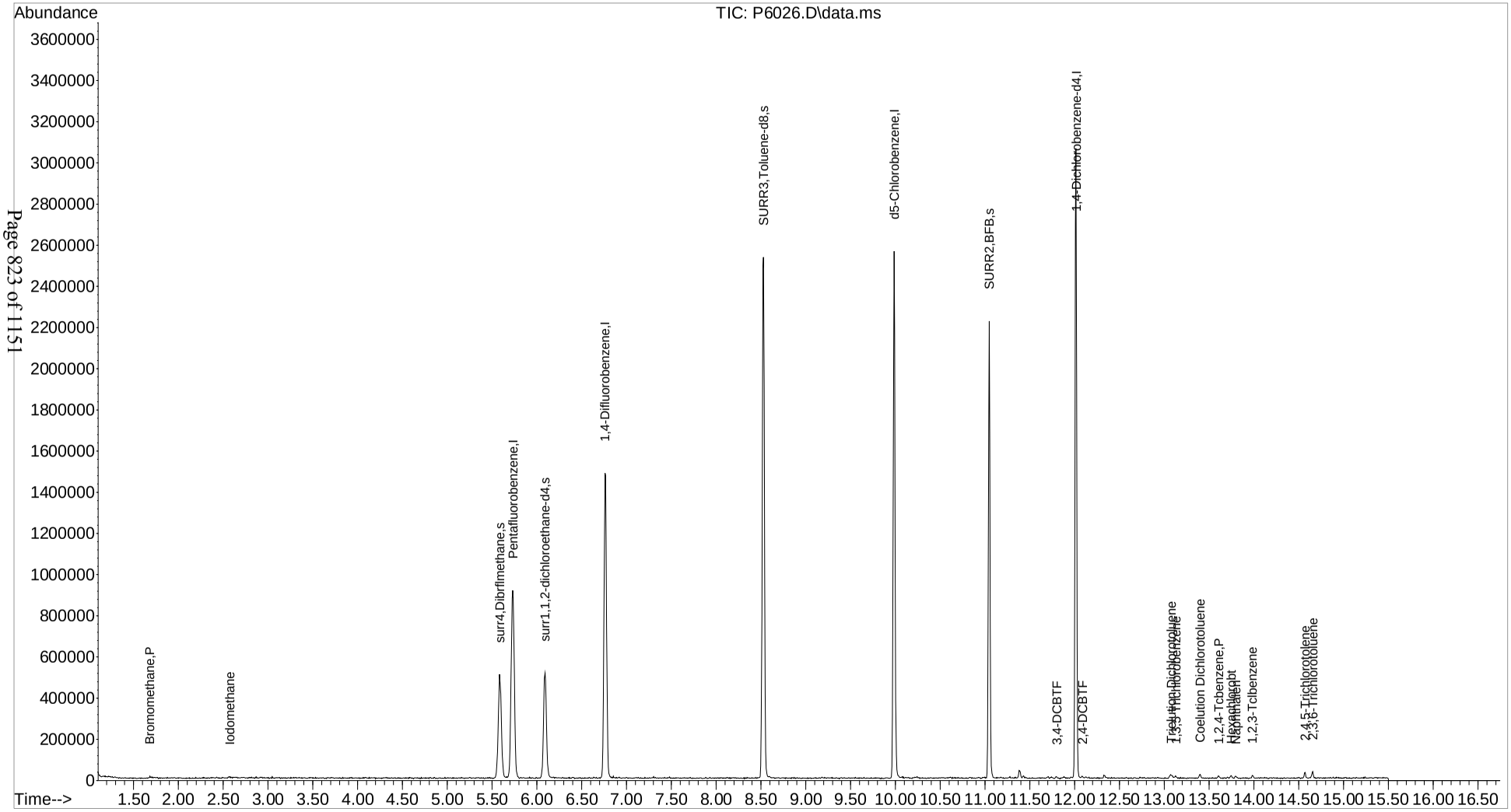
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	790643	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1284694	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1170140	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	608459	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	374761	54.66	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.32%				
48) surr1,1,2-dichloroetha...	6.090	65	412561	52.97	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.94%				
65) SURR3,Toluene-d8	8.529	98	1593470	56.71	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.42%				
70) SURR2,BFB	11.047	95	570718	52.07	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.14%				
Target Compounds							Qvalue
5) Bromomethane	1.683	94	3737m	0.67	ppb		
17) Iodomethane	2.573	142	4599	0.62	ppb		88
102) 3,4-DCBTF	11.797	214	1597	0.23	ppb	#	70
107) 2,4-DCBTF	12.083	214	1440m	0.22	ppb		
112) Trielution Dichlorotol...	13.077	125	8489	0.72	ppb		96
113) 1,3,5 Trichlorobenzene	13.126	180	2639	0.25	ppb	#	58
114) Coelution Dichlorotoluene	13.400	125	4790	0.37	ppb	#	79
115) 1,2,4-Tcbenzene	13.607	180	2709	0.29	ppb		87
116) Hexachlorobt	13.747	225	1520	0.38	ppb	#	64
117) Naphthalen	13.796	128	5848	0.36	ppb		97
118) 1,2,3-Tclbenzene	13.985	180	2629	0.32	ppb		96
119) 2,4,5-Trichlorotolene	14.570	159	5432m	0.95	ppb		
120) 2,3,6-Trichlorotoluene	14.656	159	5238	0.99	ppb		95

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

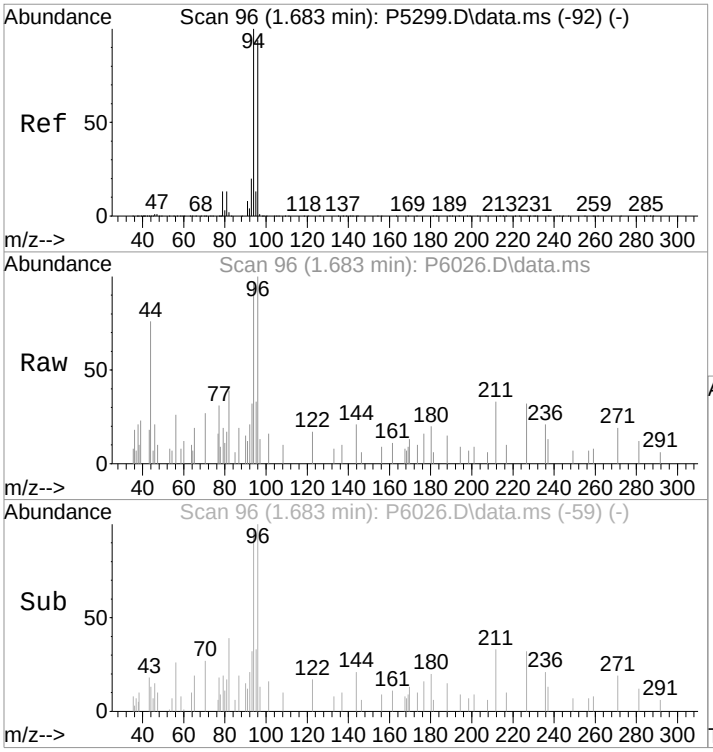
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6026.D
Acq On : 28 Oct 2016 12:23 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 28 16:40:24 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



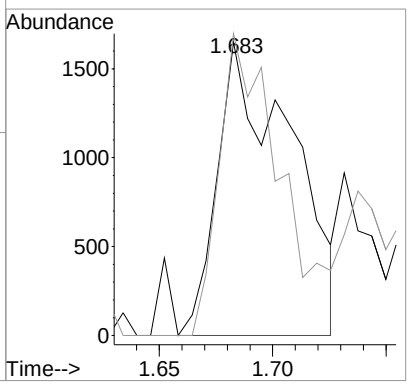
1st 10/31/16
2nd 10/31/16

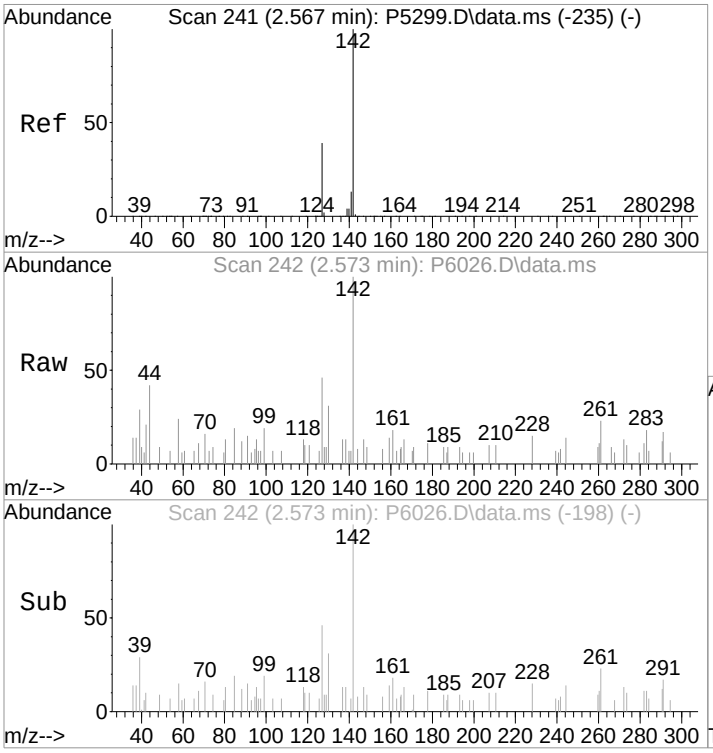


#5
Bromomethane
Concen: 0.67 ppb m
RT: 1.683 min Scan# 96
Delta R.T. 0.001 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion: 94 Resp: 3737

Ion	Ratio	Lower	Upper
94	100		
96	102.9	73.8	113.8

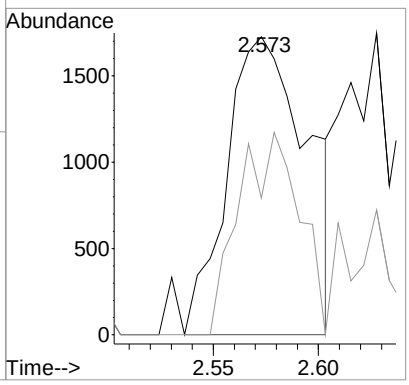


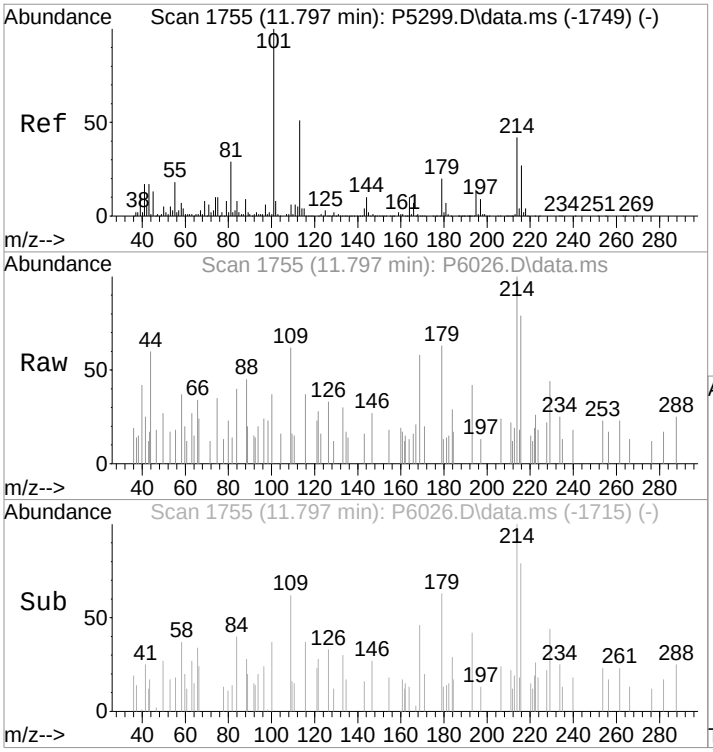


#17
Iodomethane
Concen: 0.62 ppb
RT: 2.573 min Scan# 242
Delta R.T. 0.006 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:142 Resp: 4599

Ion	Ratio	Lower	Upper
142	100		
127	45.9	18.7	58.7

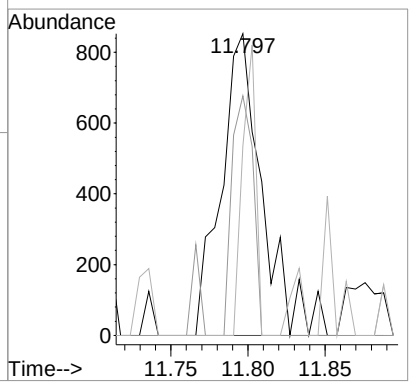


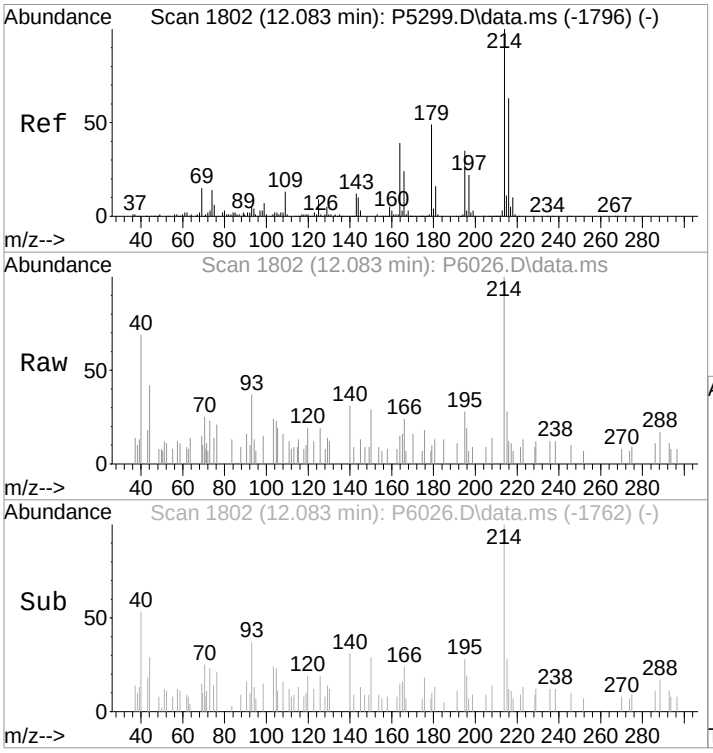


#102
3,4-DCBTF
Concen: 0.23 ppb
RT: 11.797 min Scan# 1755
Delta R.T. -0.006 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:214 Resp: 1597

Ion	Ratio	Lower	Upper
214	100		
216	79.4	51.5	77.3#
179	76.2	37.4	56.0#

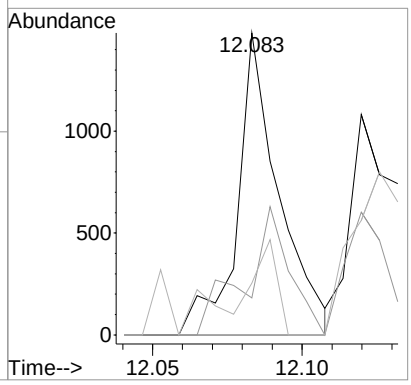


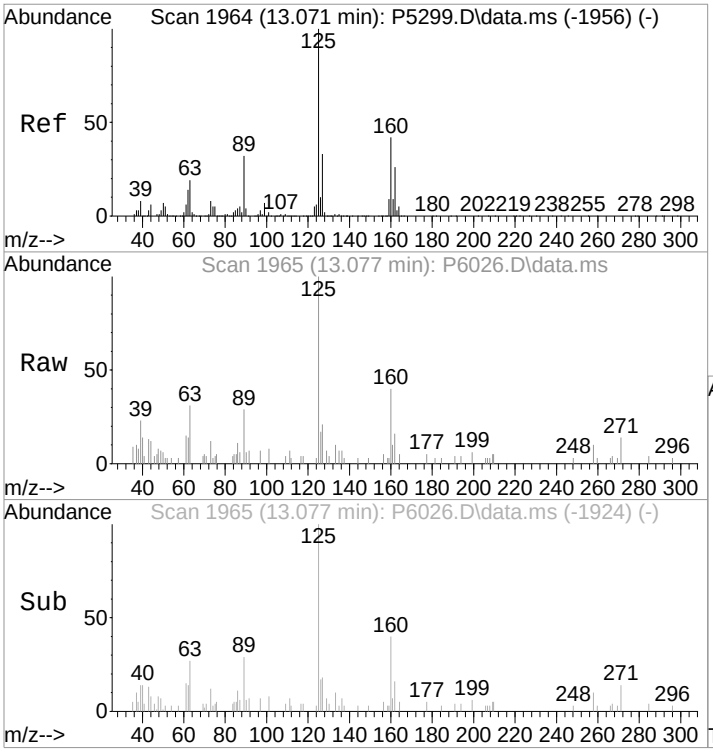


#107
2,4-DCBTF
Concen: 0.22 ppb m
RT: 12.083 min Scan# 1802
Delta R.T. -0.006 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:214 Resp: 1440

Ion	Ratio	Lower	Upper
214	100		
216	12.2	50.6	75.8#
179	10.2	39.0	58.6#

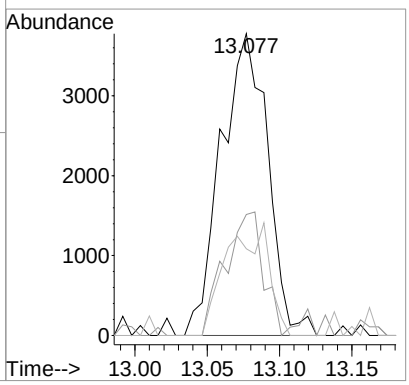


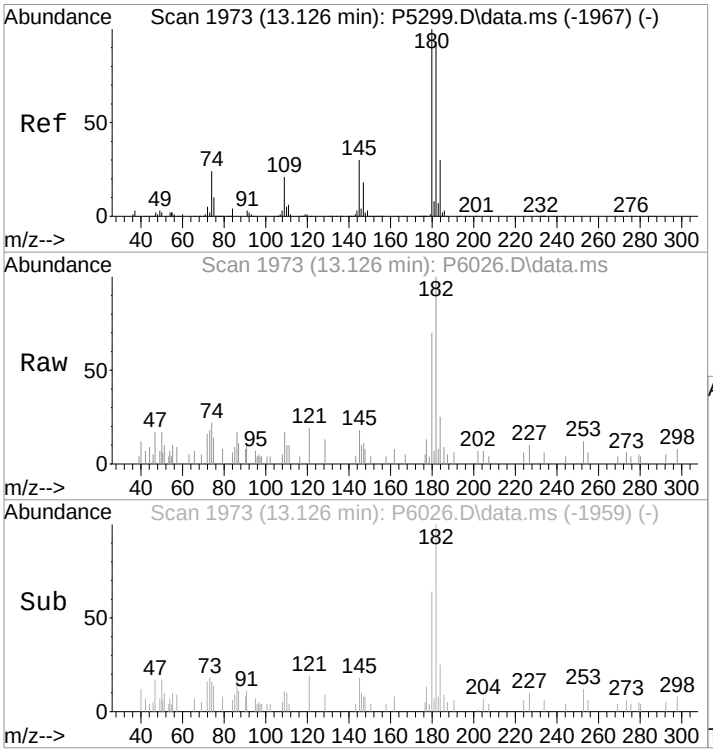


#112
Trielution Dichlorotoluene
Concen: 0.72 ppb
RT: 13.077 min Scan# 1965
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:125 Resp: 8489

Ion	Ratio	Lower	Upper
125	100		
160	40.1	33.6	50.4
89	28.7	25.8	38.8

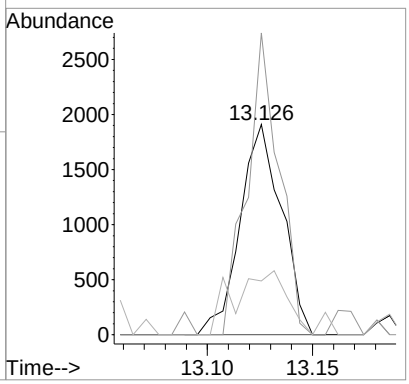


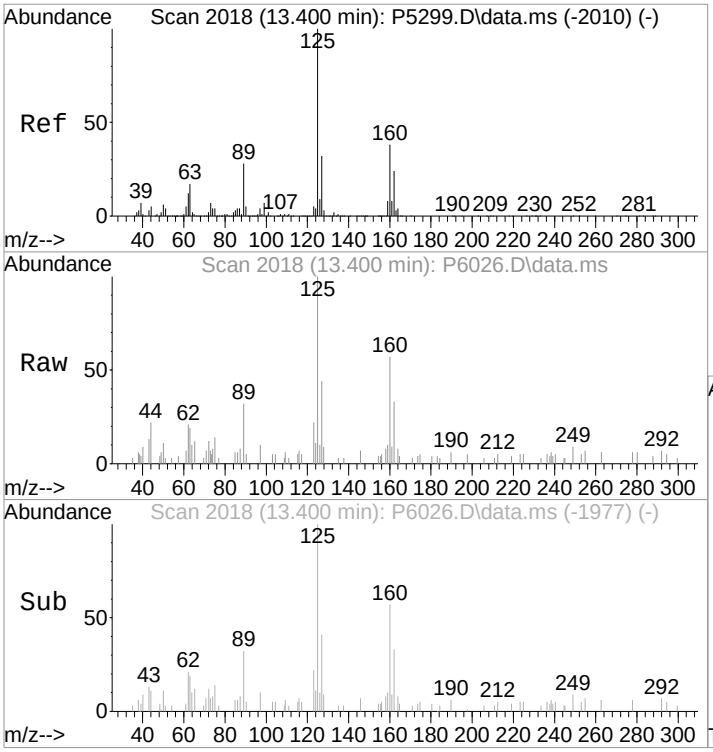


#113
1,3,5 Trichlorobenzene
Concen: 0.25 ppb
RT: 13.126 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:180 Resp: 2639

Ion	Ratio	Lower	Upper
180	100		
182	143.5	74.6	111.8#
145	25.6	23.9	35.9

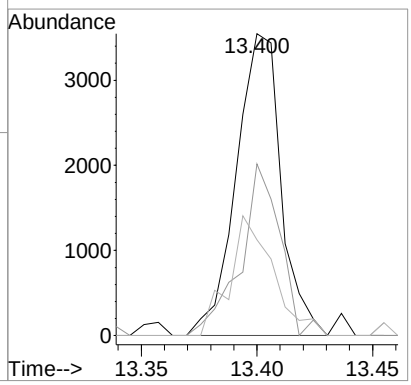


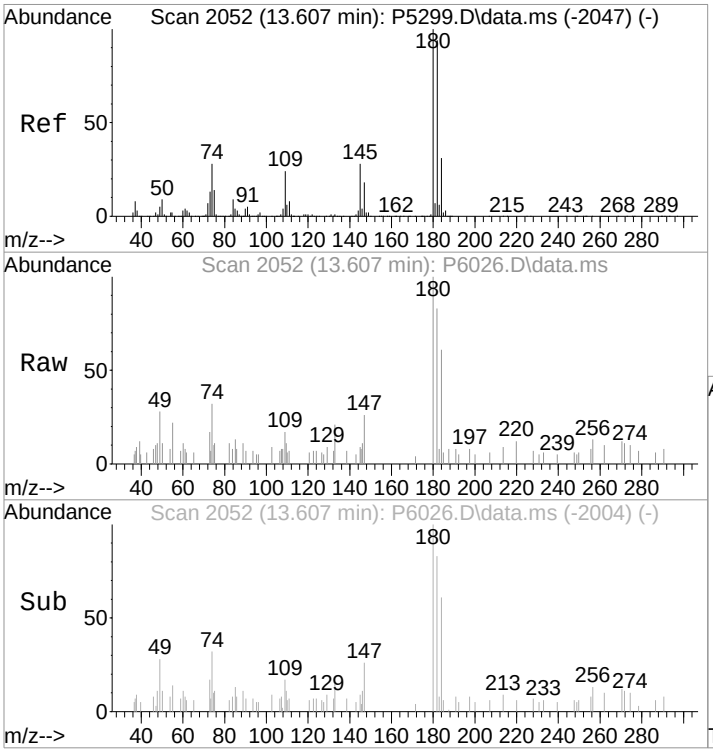


#114
Coelution Dichlorotoluene
Concen: 0.37 ppb
RT: 13.400 min Scan# 2018
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:125 Resp: 4790

Ion	Ratio	Lower	Upper
125	100		
160	56.9	30.2	45.2#
89	31.7	22.7	34.1

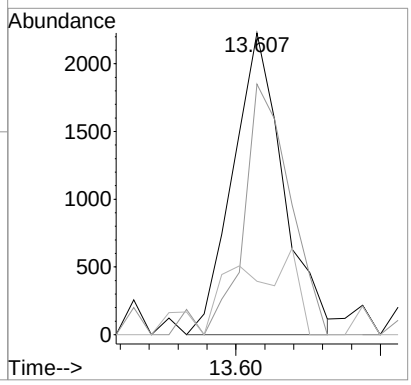


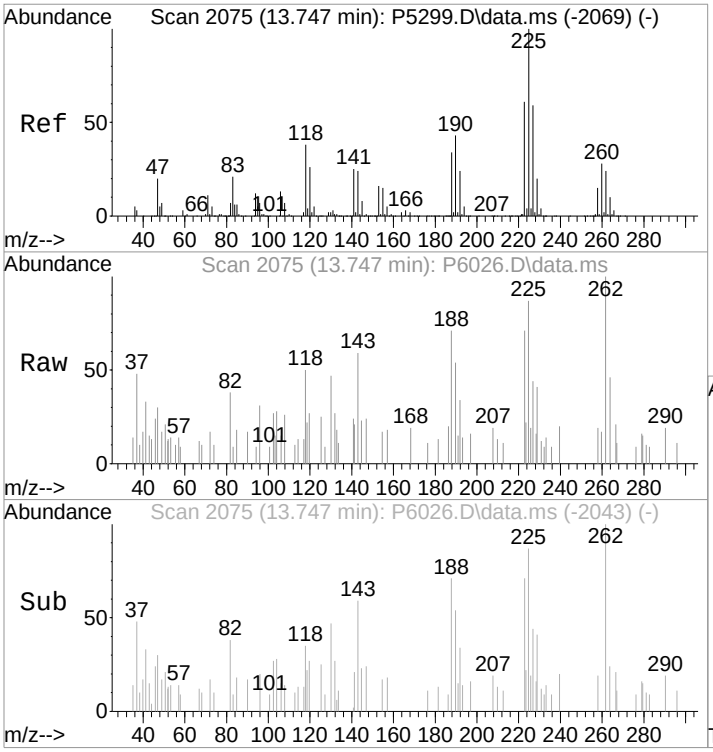


#115
1,2,4-Tcbenzene
Concen: 0.29 ppb
RT: 13.607 min Scan# 2052
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:180 Resp: 2709

Ion	Ratio	Lower	Upper
180	100		
182	83.0	74.1	114.1
145	17.7	7.8	47.8

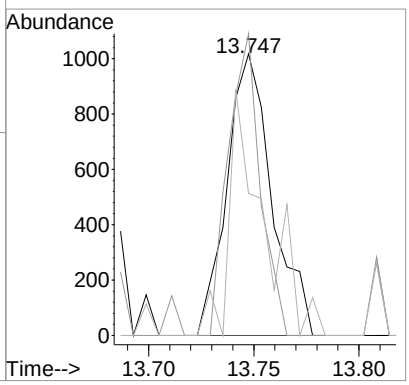


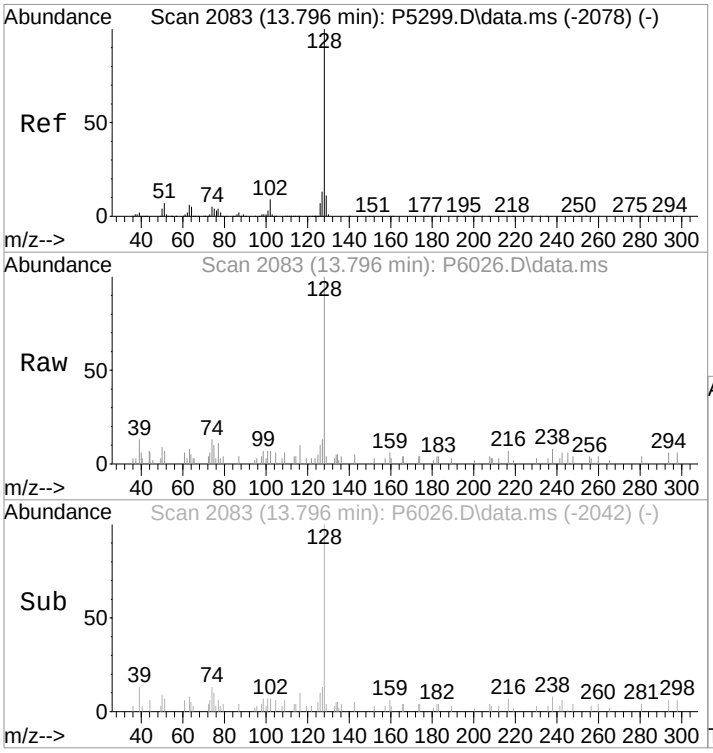


#116
Hexachlorobt
Concen: 0.38 ppb
RT: 13.747 min Scan# 2075
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:225 Resp: 1520

Ion	Ratio	Lower	Upper
225	100		
223	107.2	41.4	81.4#
227	50.5	39.1	79.1

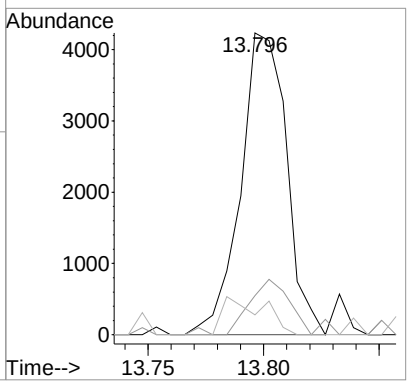


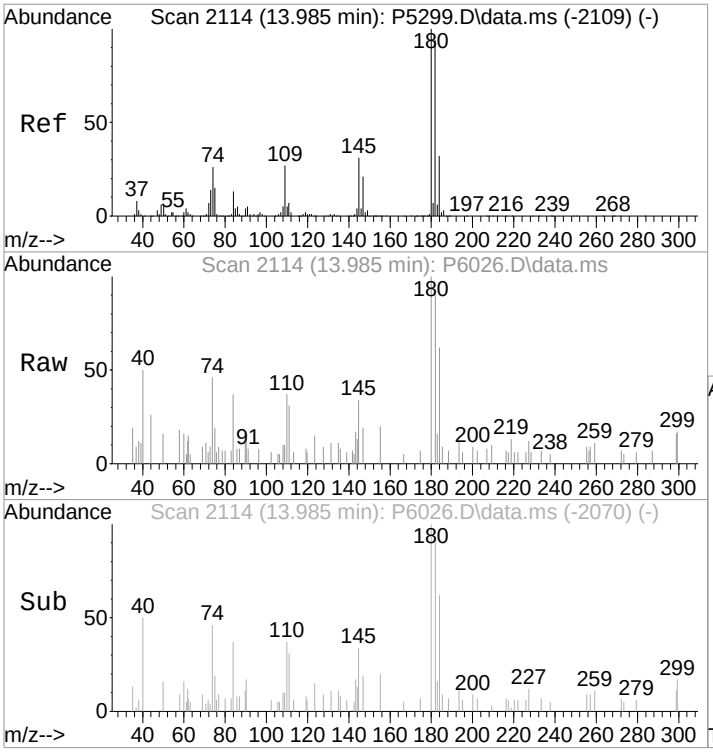


#117
Naphthalen
Concen: 0.36 ppb
RT: 13.796 min Scan# 2083
Delta R.T. -0.006 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:128 Resp: 5848

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	33.2
102	6.6	0.0	29.2

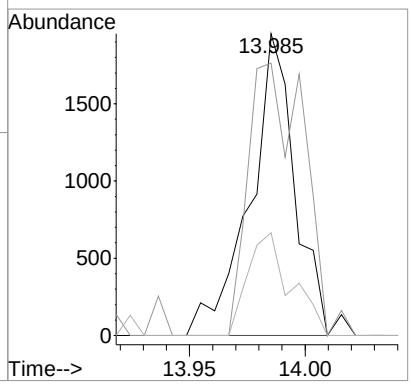


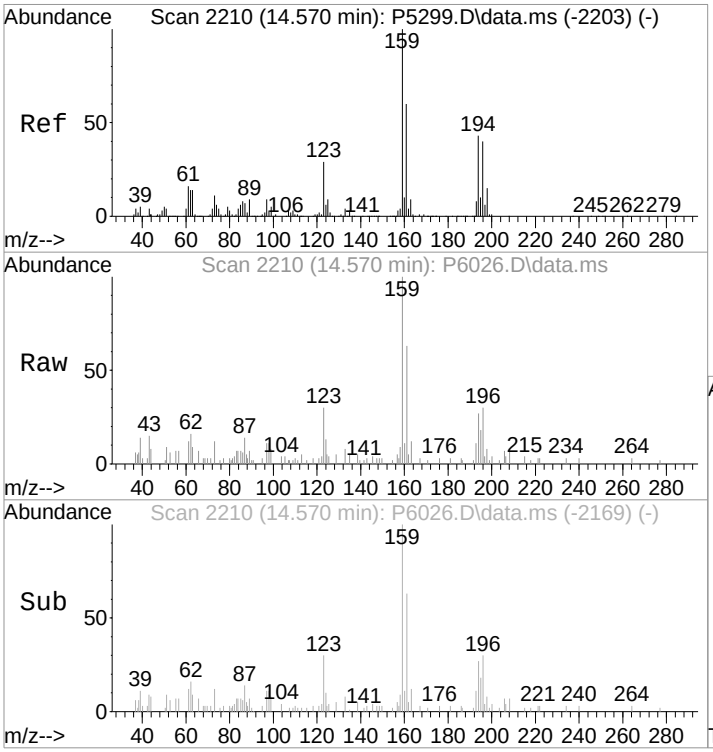


#118
1,2,3-Tclbenzene
Concen: 0.32 ppb
RT: 13.985 min Scan# 2114
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:180 Resp: 2629

Ion	Ratio	Lower	Upper
180	100		
182	90.2	73.9	113.9
145	34.1	11.2	51.2

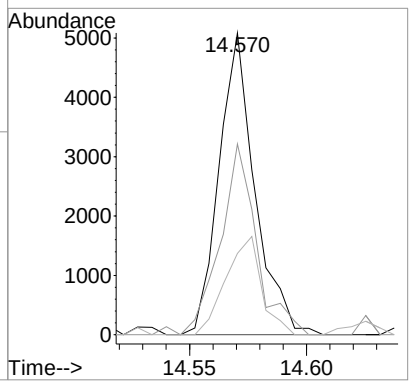


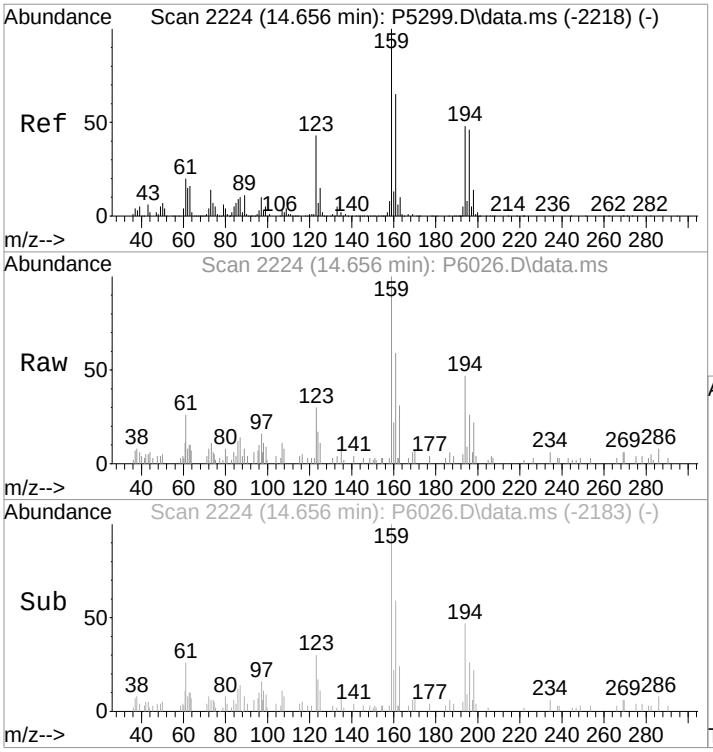


#119
2,4,5-Trichlorotolene
Concen: 0.95 ppb m
RT: 14.570 min Scan# 2210
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:159 Resp: 5432

Ion	Ratio	Lower	Upper
159	100		
161	63.2	48.1	72.1
194	26.9	34.5	51.7#

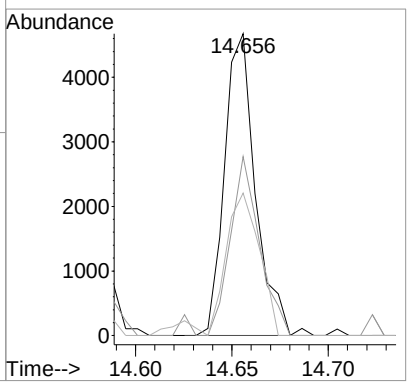




#120
2,3,6-Trichlorotoluene
Concen: 0.99 ppb
RT: 14.656 min Scan# 2224
Delta R.T. 0.000 min
Lab File: P6026.D
Acq: 28 Oct 2016 12:23 am

Tgt Ion:159 Resp: 5238

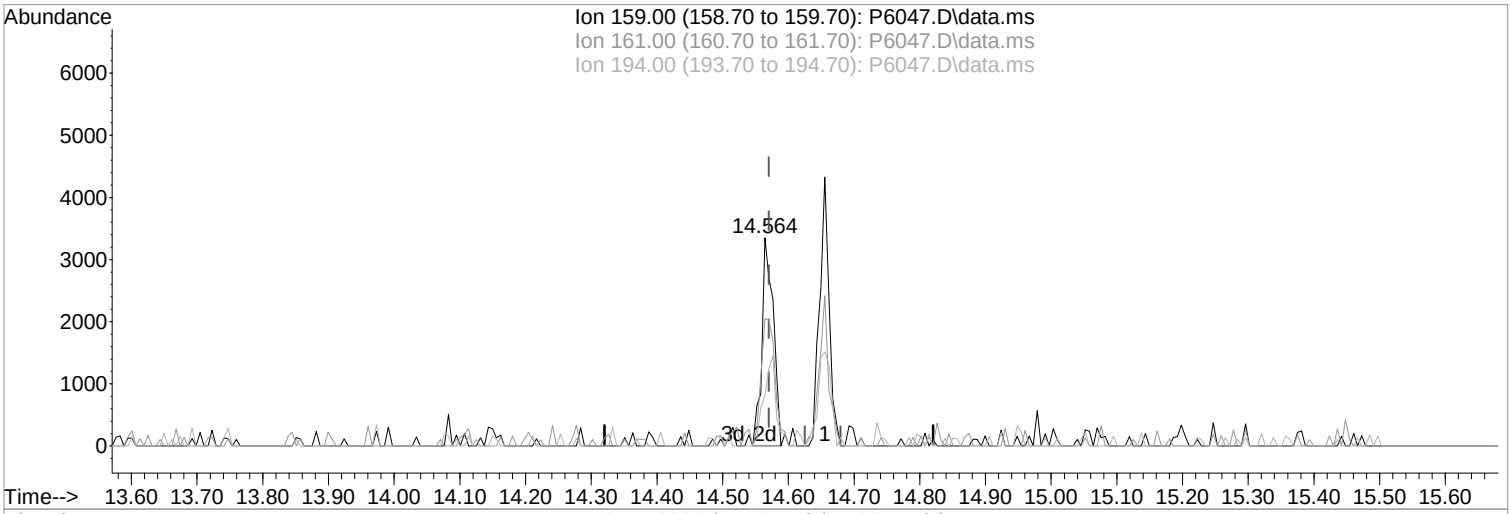
Ion	Ratio	Lower	Upper
159	100		
161	59.3	52.3	78.5
194	47.2	38.6	57.8

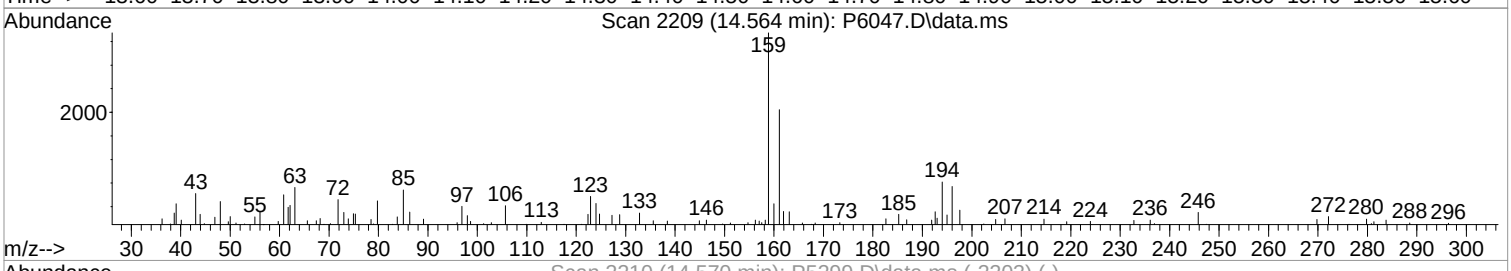


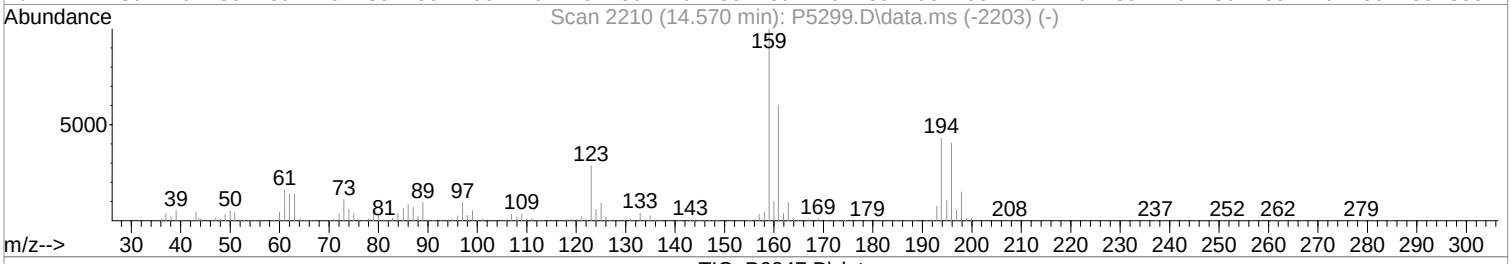
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6047.D
Acq On : 28 Oct 2016 11:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 28 13:18:16 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6047.D\data.ms

(119) 2,4,5-Trichlorotolene

14.564min (-0.006) 0.72 ppb m

response 4041

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	61.12
194.00	43.10	24.40#
0.00	0.00	0.00

Manual Integration:

After

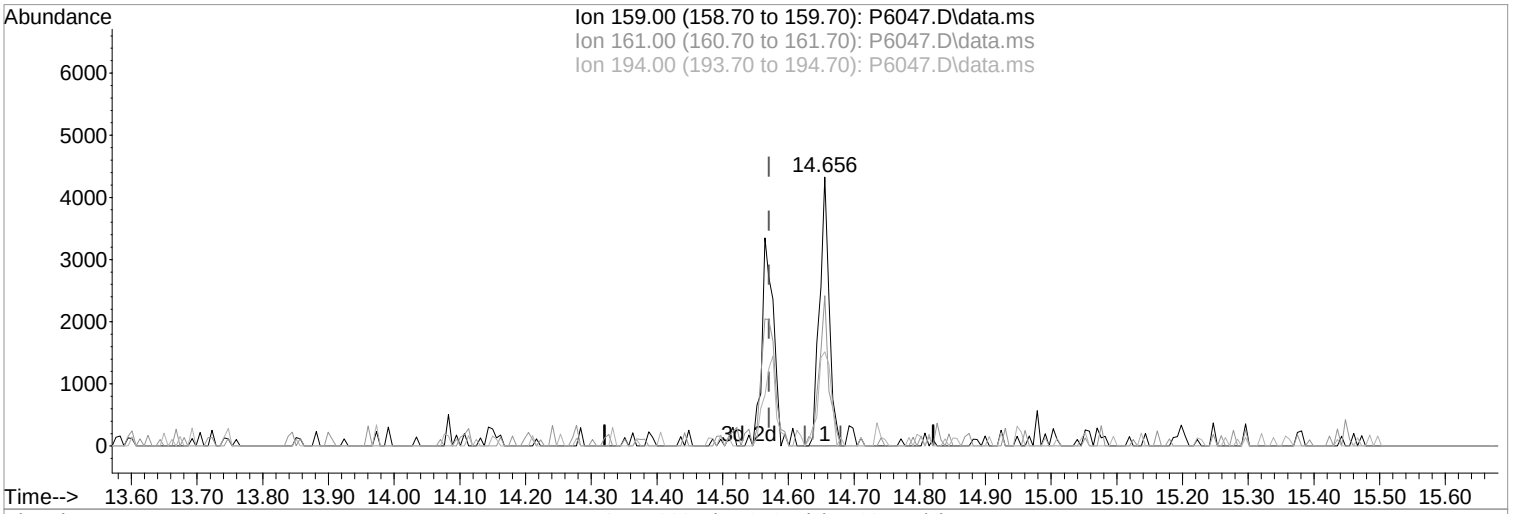
Wrong peak selected.

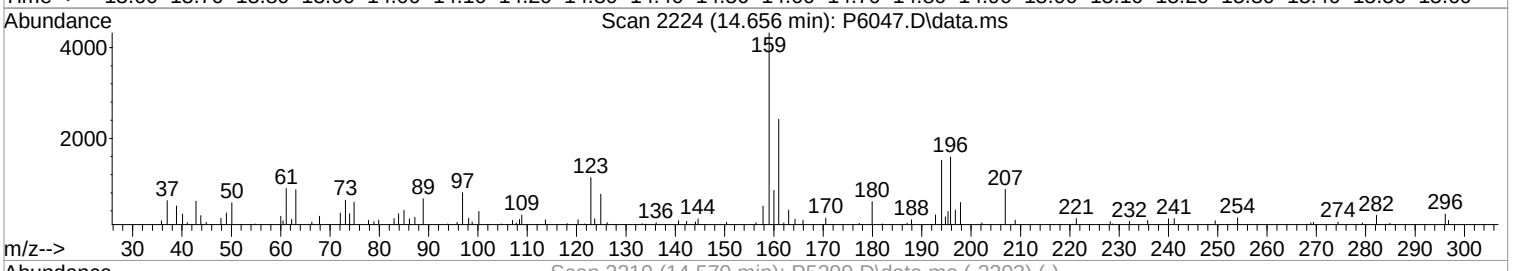
10/31/16

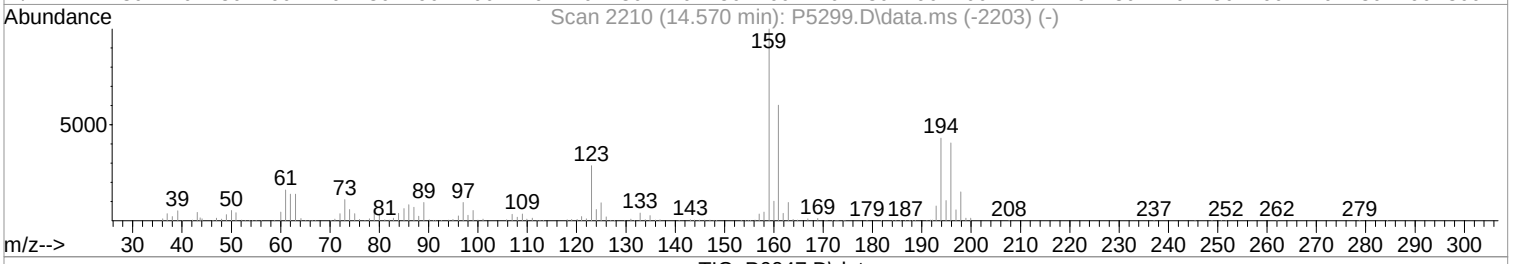
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6047.D
Acq On : 28 Oct 2016 11:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 28 13:18:16 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6047.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.085) 0.79 ppb

response 4441

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	55.89
194.00	43.10	35.03
0.00	0.00	0.00

Manual Integration:

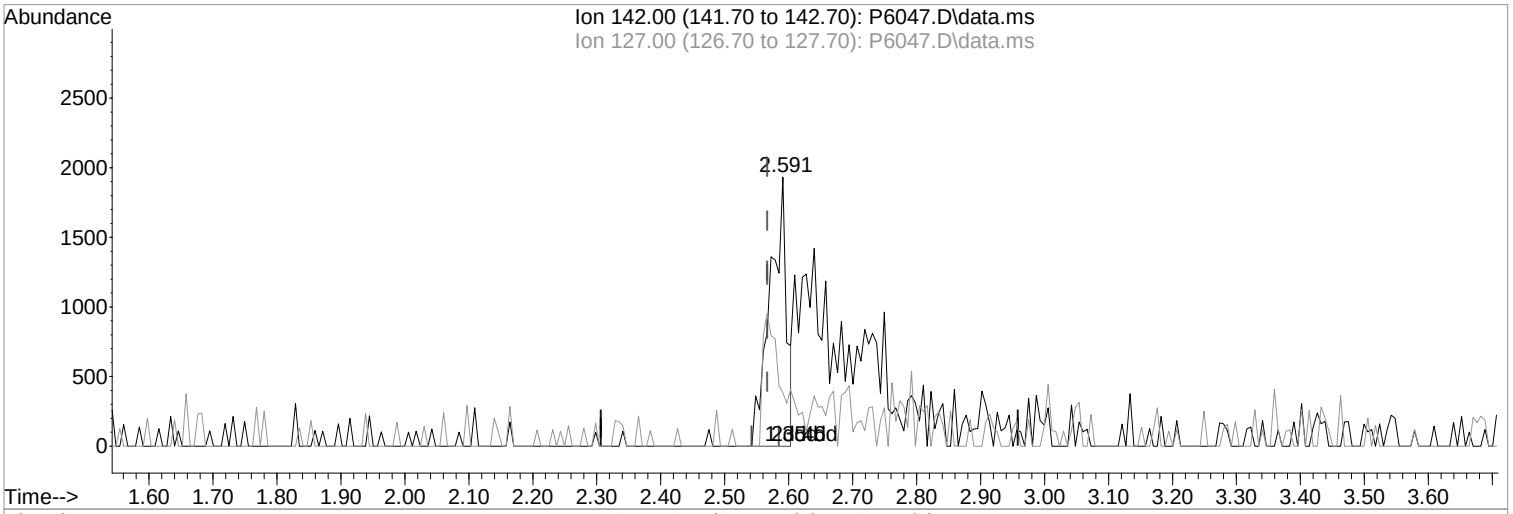
Before

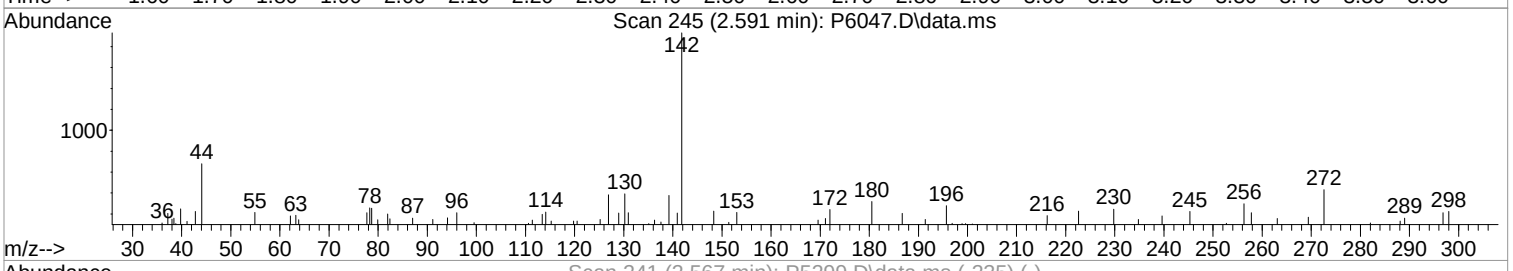
10/31/16

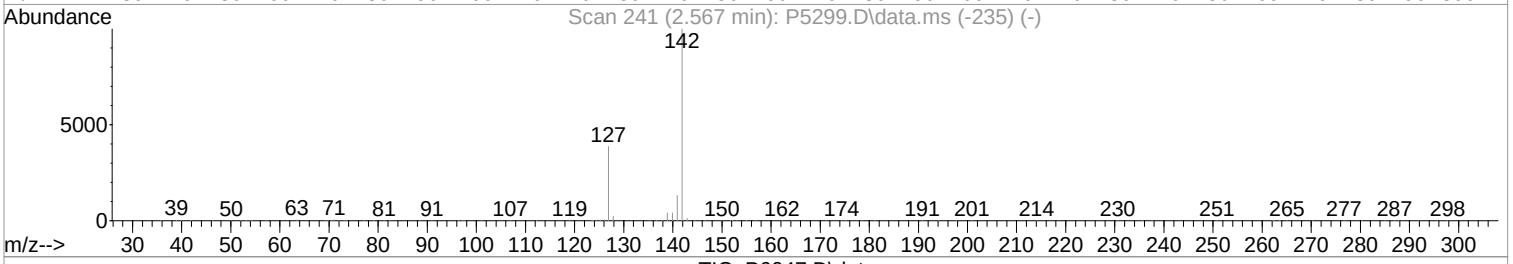
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6047.D
Acq On : 28 Oct 2016 11:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 28 13:18:16 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6047.D\data.ms

(17) Iodomethane

2.591min (+0.024) 0.48 ppb m

response 3460

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	19.87
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

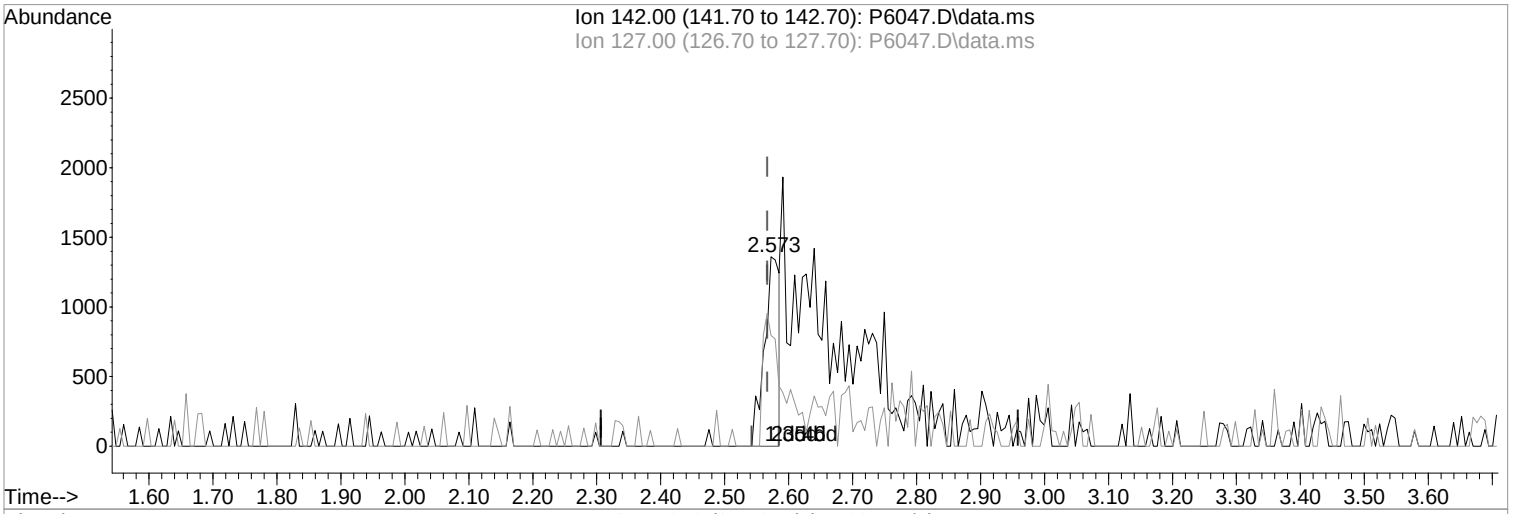
Split Peak

10/31/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6047.D
Acq On : 28 Oct 2016 11:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 28 13:18:16 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6047.D\data.ms

(17) Iodomethane

2.573min (+0.006) 0.31 ppb

response 2217

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	58.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6047.D
Acq On : 28 Oct 2016 11:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 31 10:17:44 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

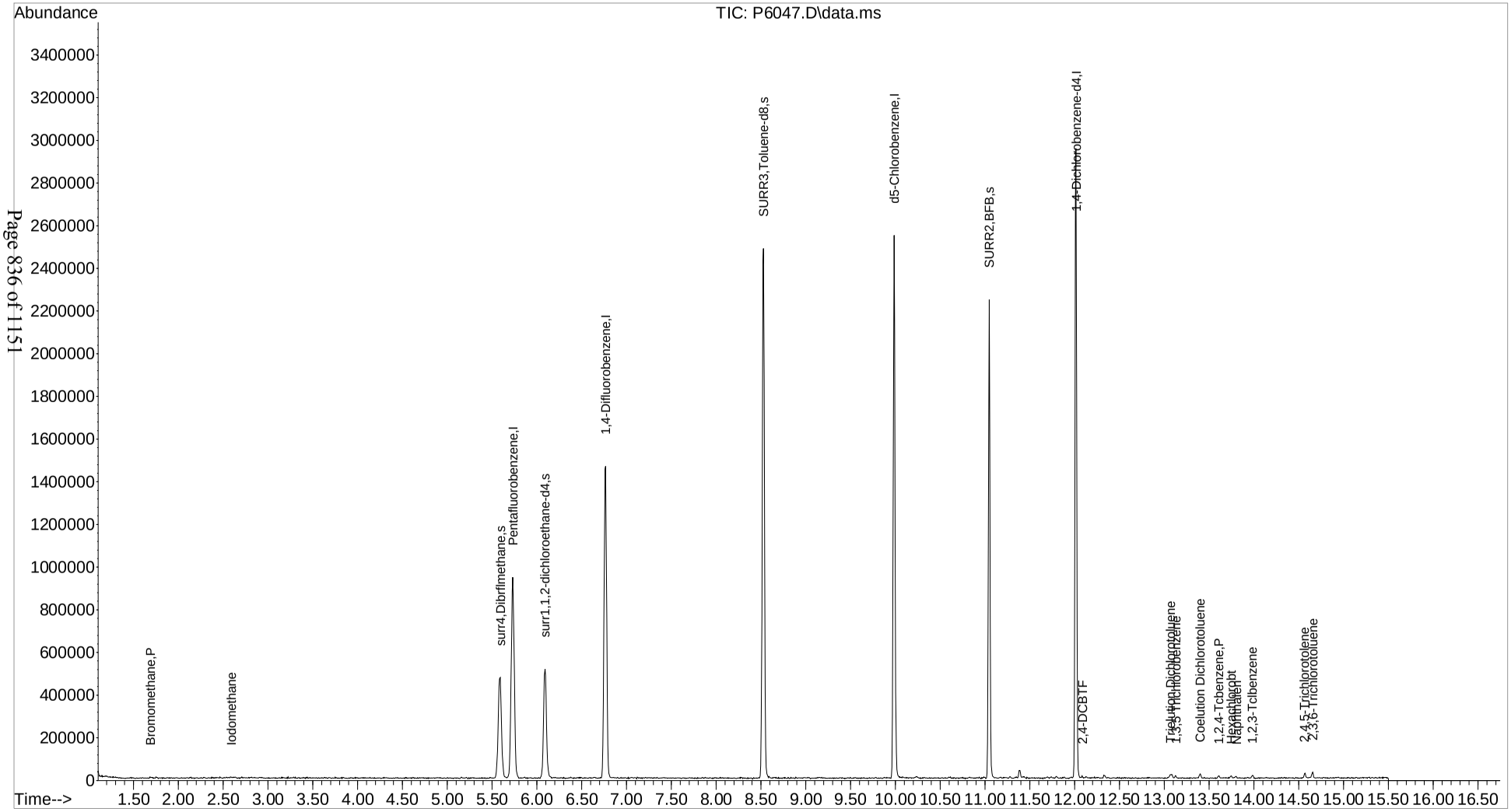
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	774805	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1265649	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1160607	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	599407	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	366689	54.29	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.58%				
48) surr1,1,2-dichloroetha...	6.090	65	402807	52.49	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.98%				
65) SURR3,Toluene-d8	8.529	98	1561517	56.41	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.82%				
70) SURR2,BFB	11.047	95	567575	52.56	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.12%				
Target Compounds							Qvalue
5) Bromomethane	1.689	94	2836	0.44	ppb	#	70
17) Iodomethane	2.591	142	3460m	0.48	ppb		
107) 2,4-DCBTF	12.083	214	1415	0.22	ppb	#	80
112) Trielution Dichlorotol...	13.064	125	6491	0.56	ppb		95
113) 1,3,5 Trichlorobenzene	13.125	180	2396	0.23	ppb	#	81
114) Coelution Dichlorotoluene	13.400	125	6408	0.51	ppb	#	93
115) 1,2,4-Tcbenzene	13.607	180	2913	0.31	ppb		93
116) Hexachlorobt	13.747	225	1181	0.30	ppb		88
117) Naphthalen	13.802	128	4137	0.26	ppb		88
118) 1,2,3-Tclbenzene	13.985	180	2143	0.27	ppb	#	28
119) 2,4,5-Trichlorotolene	14.564	159	4041m	0.72	ppb		
120) 2,3,6-Trichlorotoluene	14.656	159	4441	0.85	ppb	#	85

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

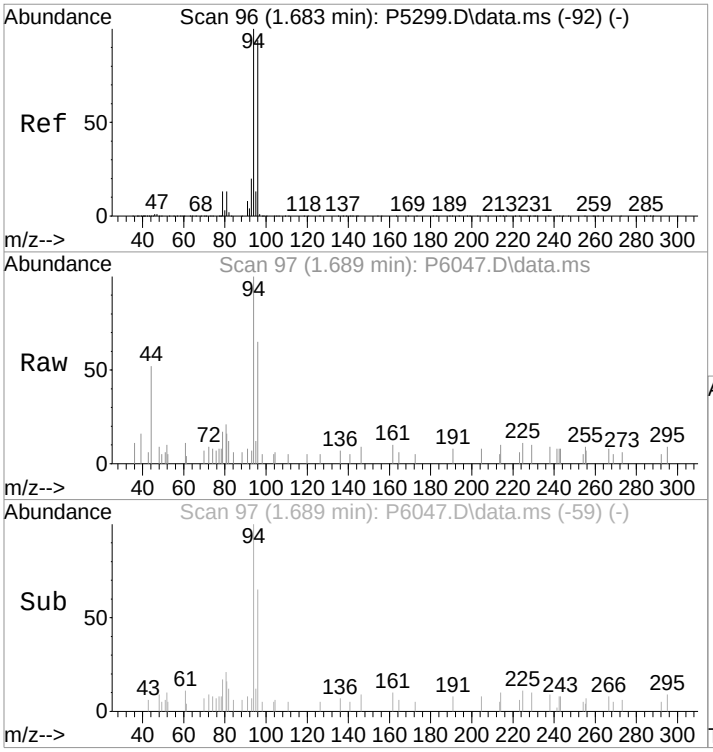
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6047.D
Acq On : 28 Oct 2016 11:43 am
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 31 10:17:44 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



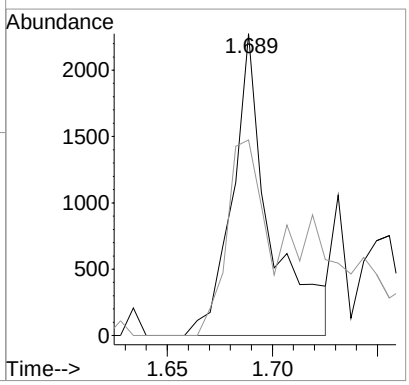
1st 10/31/16
2nd 10/31/16

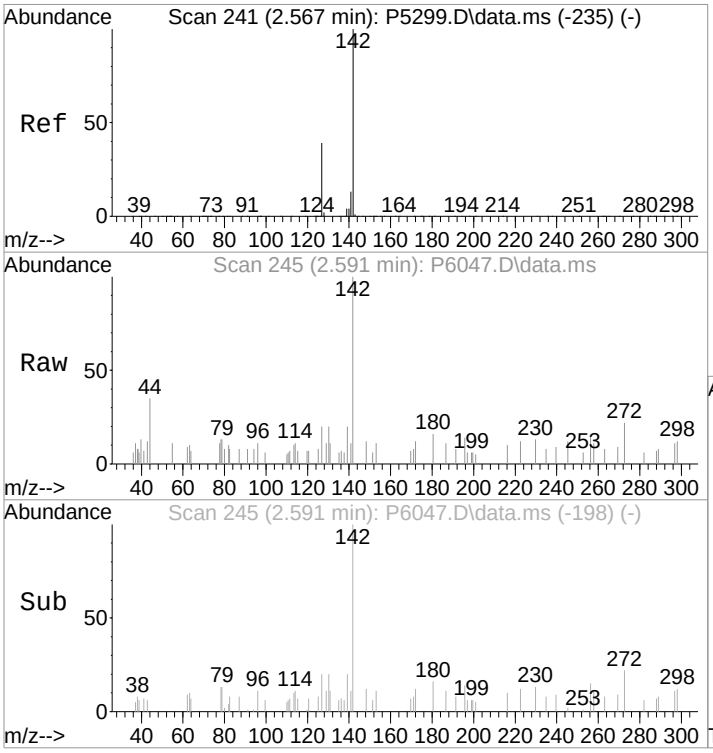


#5
Bromomethane
Concen: 0.44 ppb
RT: 1.689 min Scan# 97
Delta R.T. 0.007 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion: 94 Resp: 2836

Ion	Ratio	Lower	Upper
94	100		
96	64.8	73.8	113.8#

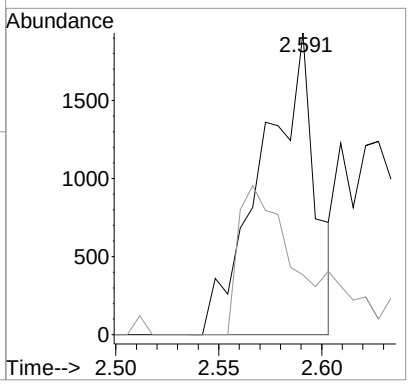


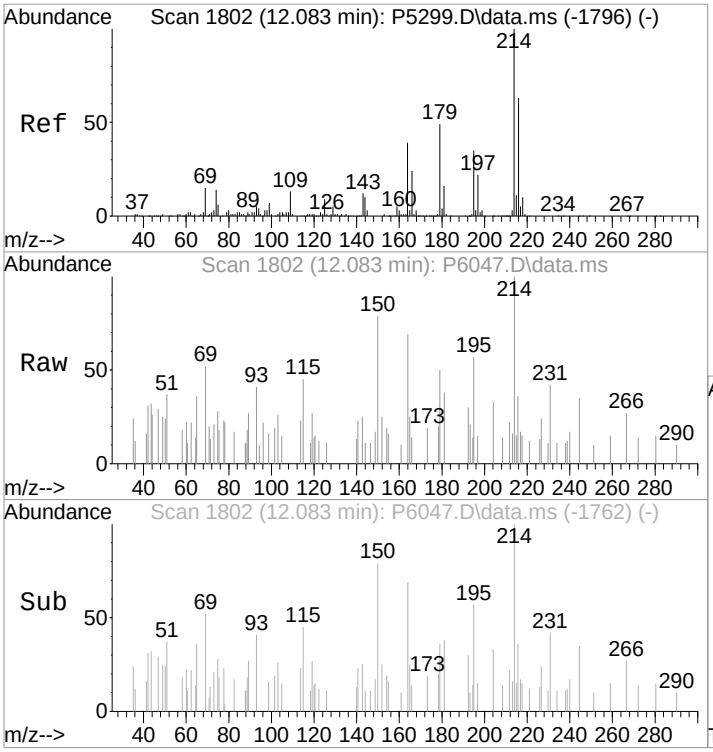


#17
Iodomethane
Concen: 0.48 ppb m
RT: 2.591 min Scan# 245
Delta R.T. 0.024 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:142 Resp: 3460

Ion	Ratio	Lower	Upper
142	100		
127	19.9	18.7	58.7

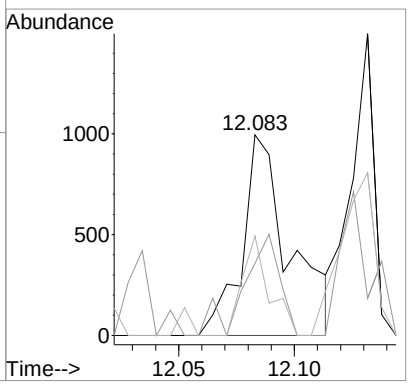


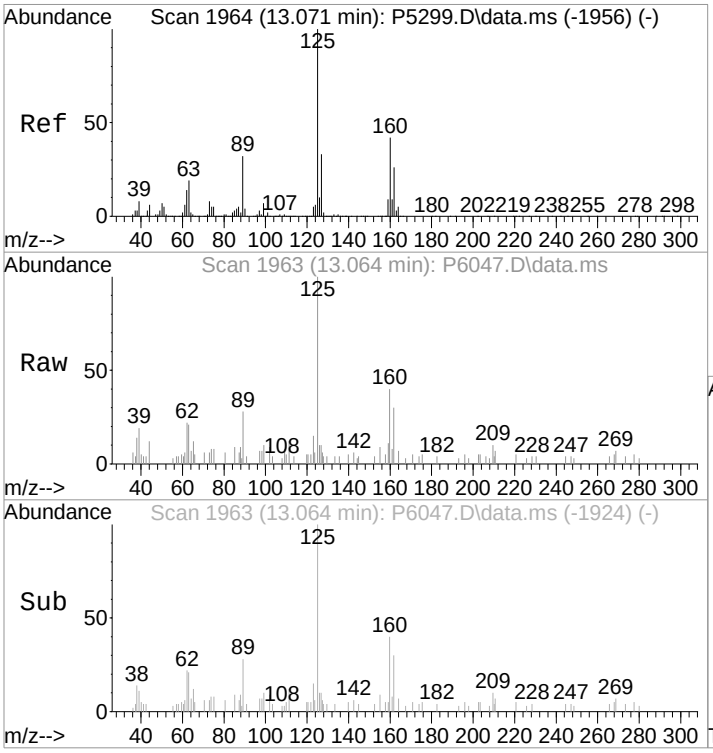


#107
2,4-DCBTF
Concen: 0.22 ppb
RT: 12.083 min Scan# 1802
Delta R.T. -0.006 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:214 Resp: 1415

Ion	Ratio	Lower	Upper
214	100		
216	36.0	50.6	75.8#
179	49.5	39.0	58.6

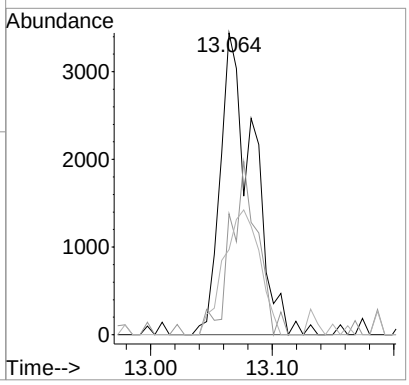


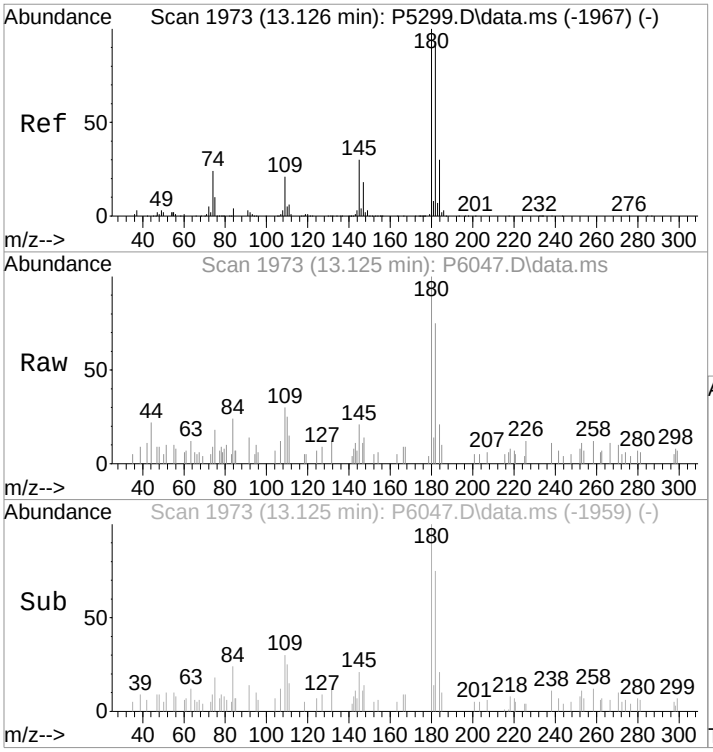


#112
Trielution Dichlorotoluene
Concen: 0.56 ppb
RT: 13.064 min Scan# 1963
Delta R.T. -0.012 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:125 Resp: 6491

Ion	Ratio	Lower	Upper
125	100		
160	40.1	33.6	50.4
89	28.2	25.8	38.8

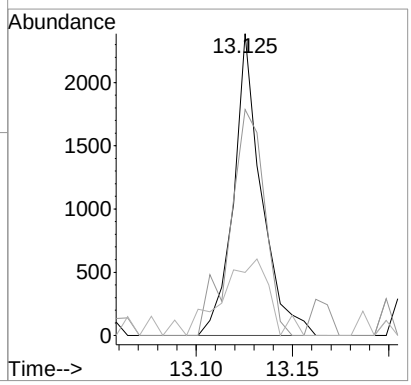


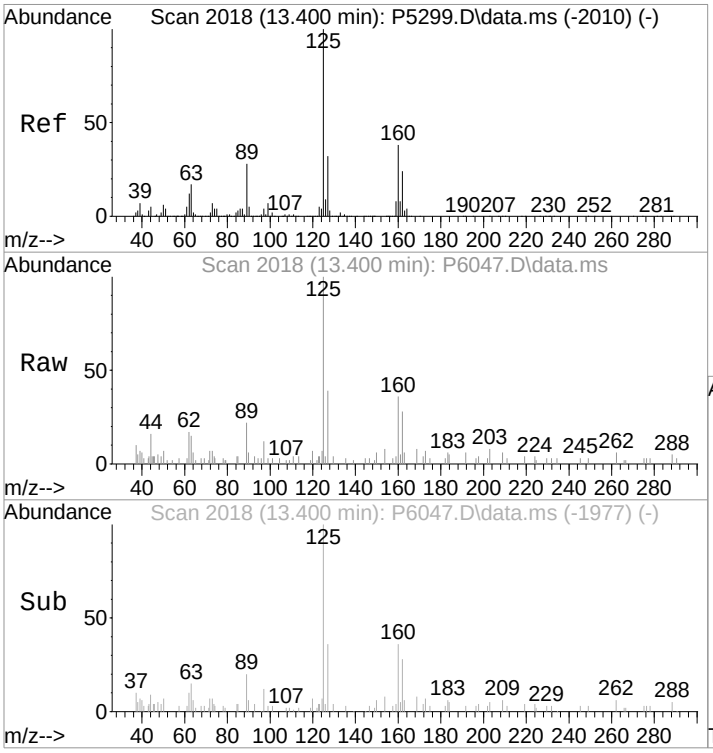


#113
1,3,5 Trichlorobenzene
Concen: 0.23 ppb
RT: 13.125 min Scan# 1973
Delta R.T. -0.006 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:180 Resp: 2396

Ion	Ratio	Lower	Upper
180	100		
182	74.8	74.6	111.8
145	20.9	23.9	35.9#

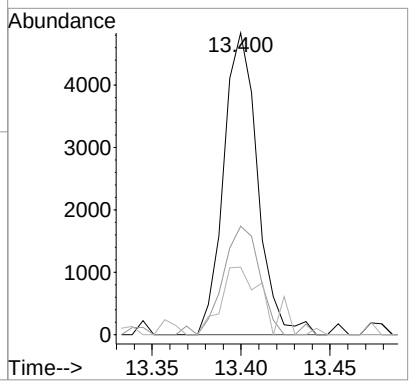


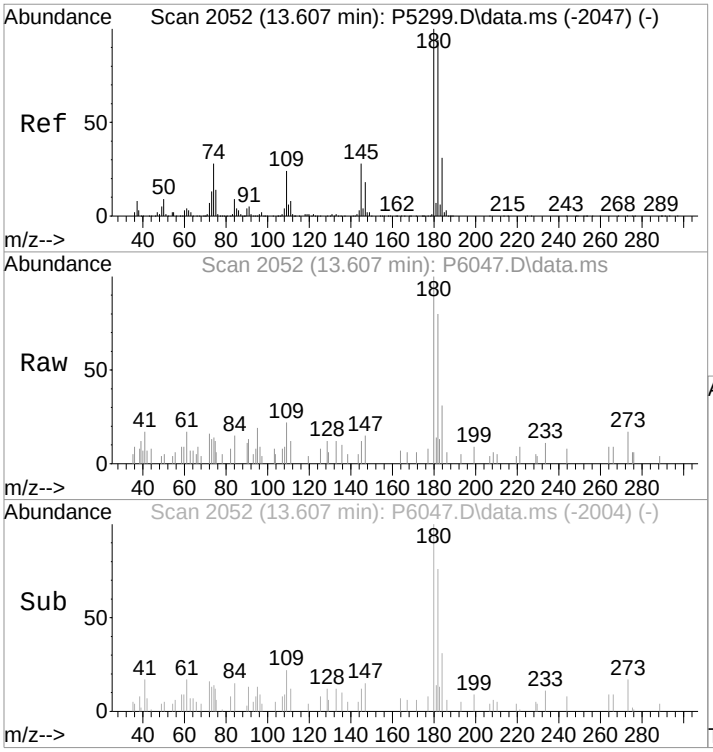


#114
Coelution Dichlorotoluene
Concen: 0.51 ppb
RT: 13.400 min Scan# 2018
Delta R.T. -0.000 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:125 Resp: 6408

Ion	Ratio	Lower	Upper
125	100		
160	35.9	30.2	45.2
89	22.3	22.7	34.1#

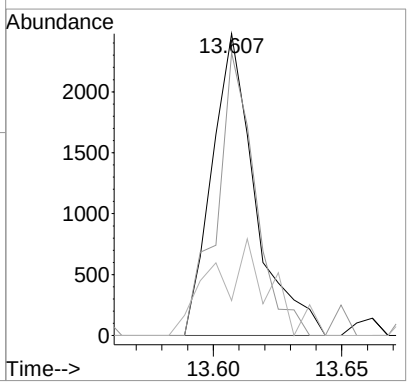


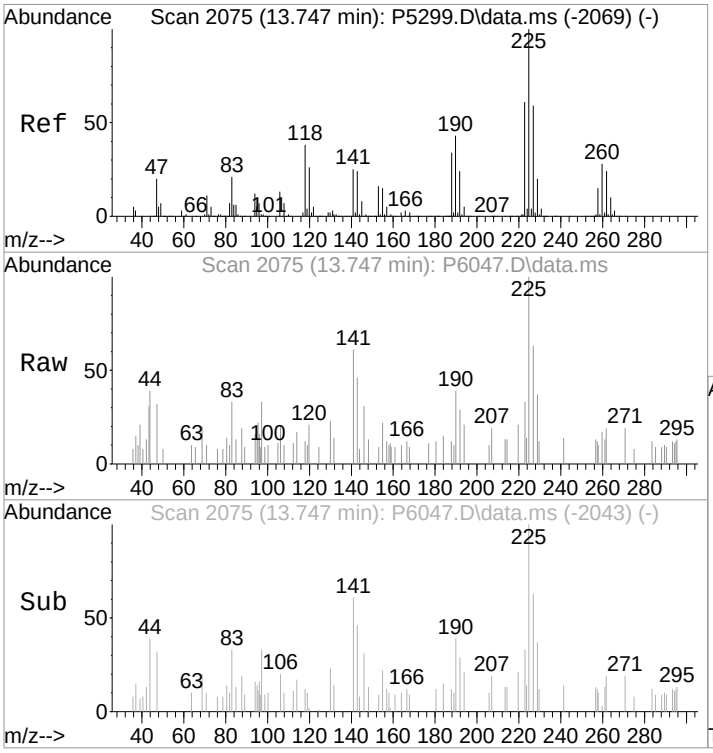


#115
1,2,4-Tcbenzene
Concen: 0.31 ppb
RT: 13.607 min Scan# 2052
Delta R.T. -0.000 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:180 Resp: 2913

Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.1	114.1
145	11.6	7.8	47.8

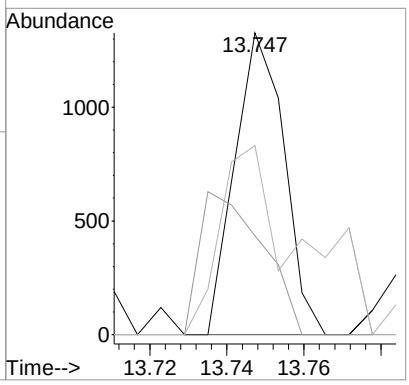


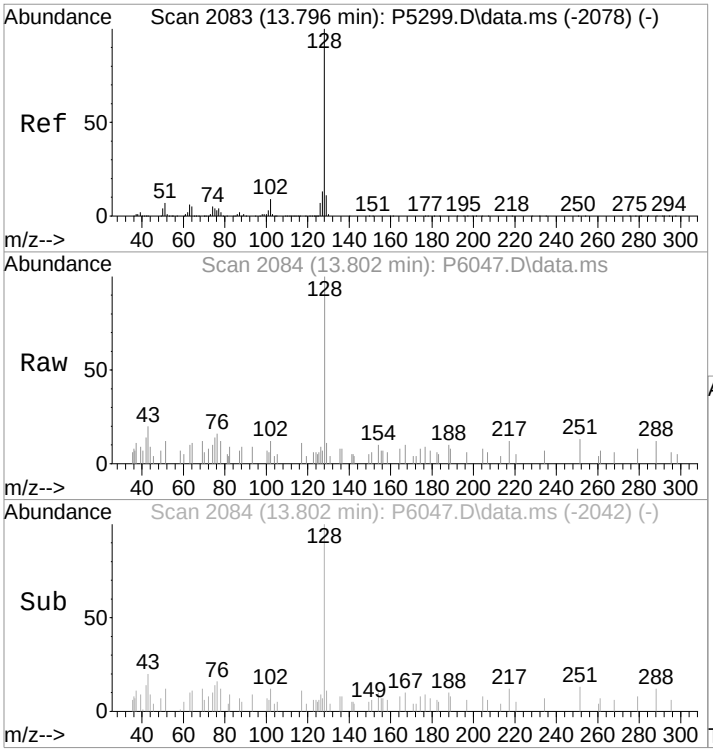


#116
Hexachlorobt
Concen: 0.30 ppb
RT: 13.747 min Scan# 2075
Delta R.T. -0.000 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:225 Resp: 1181

Ion	Ratio	Lower	Upper
225	100		
223	46.3	41.4	81.4
227	62.6	39.1	79.1

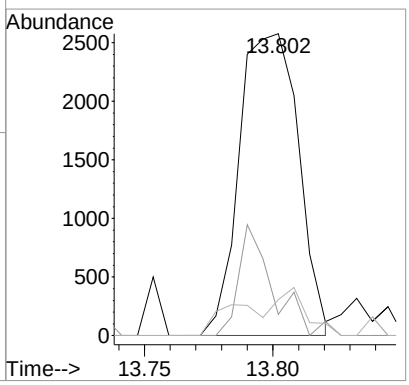


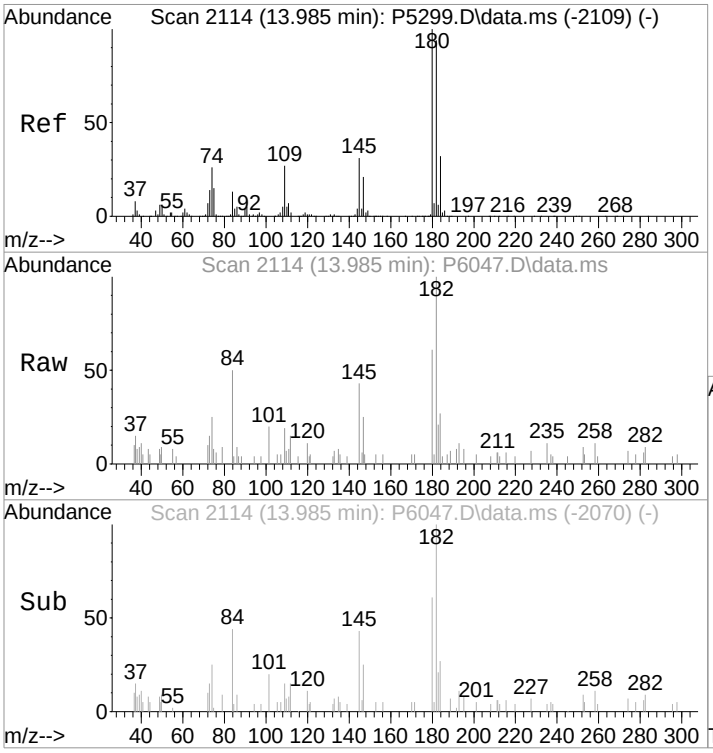


#117
Naphthalen
Concen: 0.26 ppb
RT: 13.802 min Scan# 2084
Delta R.T. -0.000 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:128 Resp: 4137

Ion	Ratio	Lower	Upper
128	100		
127	7.1	0.0	33.2
102	11.9	0.0	29.2

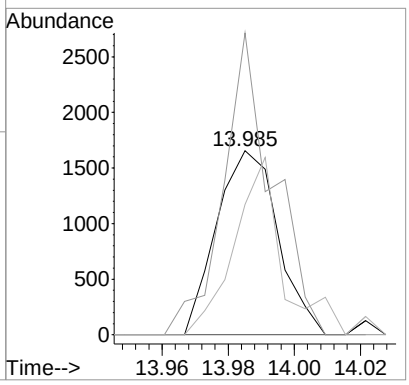


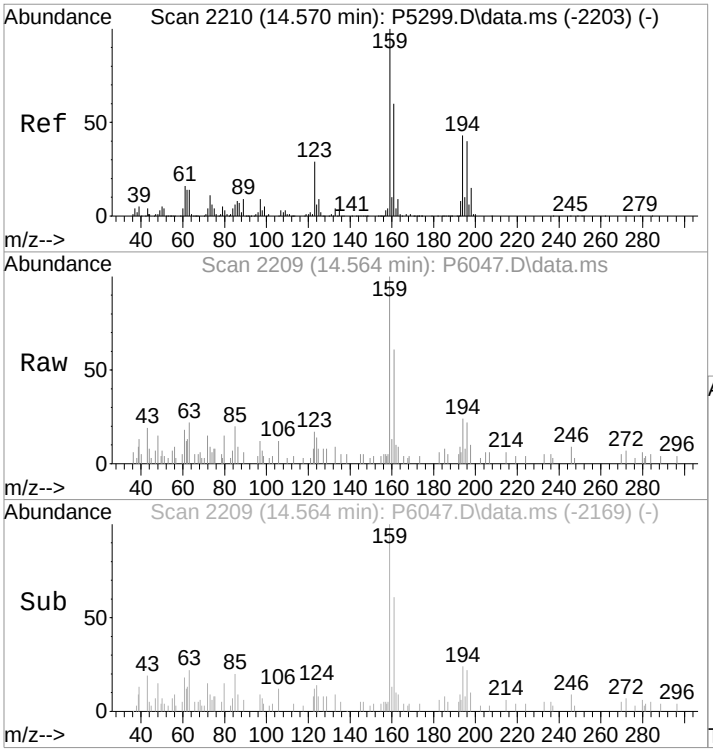


#118
1,2,3-Tclbenzene
Concen: 0.27 ppb
RT: 13.985 min Scan# 2114
Delta R.T. -0.000 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:180 Resp: 2143

Ion	Ratio	Lower	Upper
180	100		
182	163.9	73.9	113.9#
145	70.7	11.2	51.2#

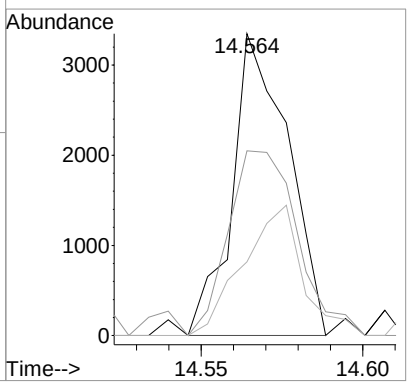


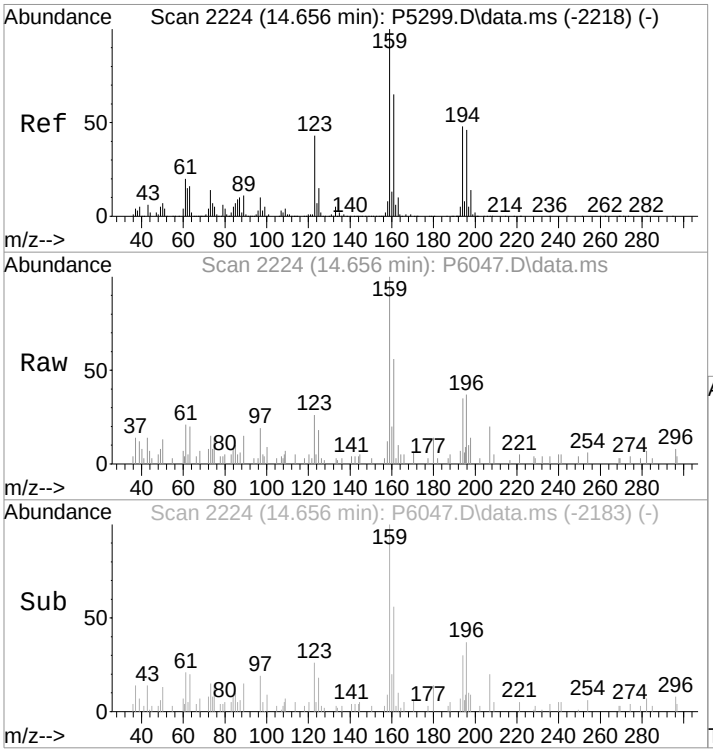


#119
2,4,5-Trichlorotolene
Concen: 0.72 ppb m
RT: 14.564 min Scan# 2209
Delta R.T. -0.006 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:159 Resp: 4041

Ion	Ratio	Lower	Upper
159	100		
161	61.1	48.1	72.1
194	24.4	34.5	51.7#

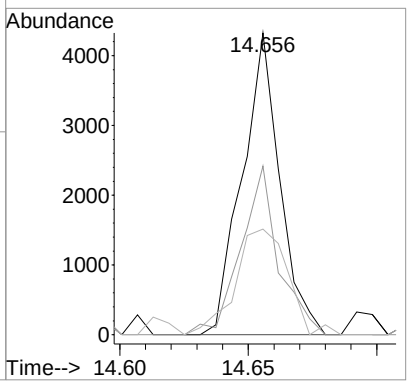




#120
2,3,6-Trichlorotoluene
Concen: 0.85 ppb
RT: 14.656 min Scan# 2224
Delta R.T. -0.000 min
Lab File: P6047.D
Acq: 28 Oct 2016 11:43 am

Tgt Ion:159 Resp: 4441

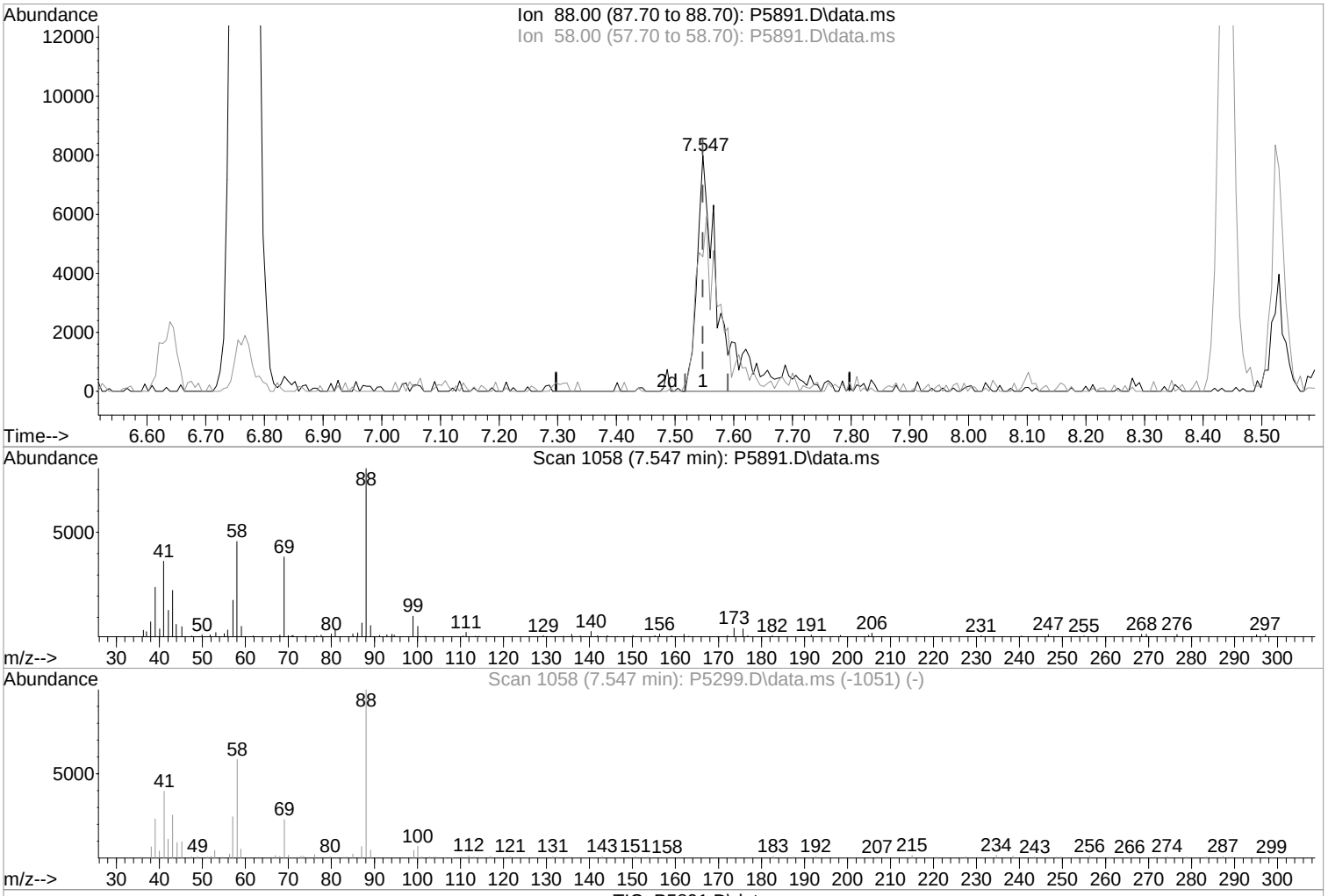
Ion	Ratio	Lower	Upper
159	100		
161	55.9	52.3	78.5
194	35.0	38.6	57.8#



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5891.D
Acq On : 24 Oct 2016 10:45 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 11:12:49 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5891.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 410.76 ppb m

response 22574

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	57.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

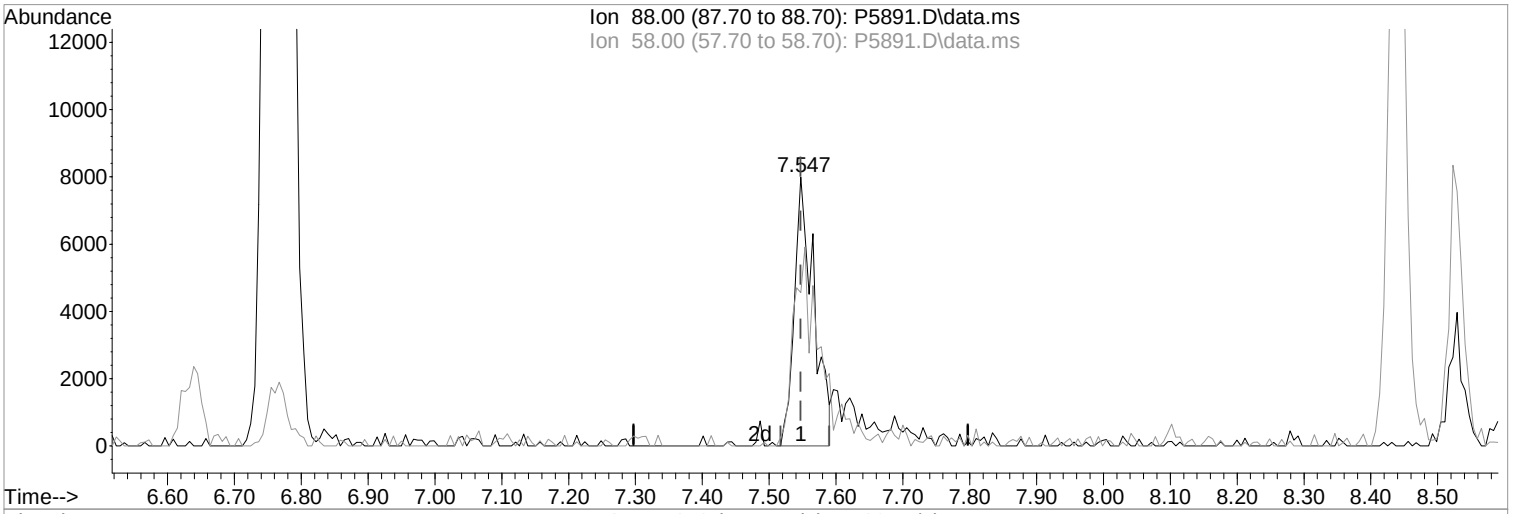
10/24/16

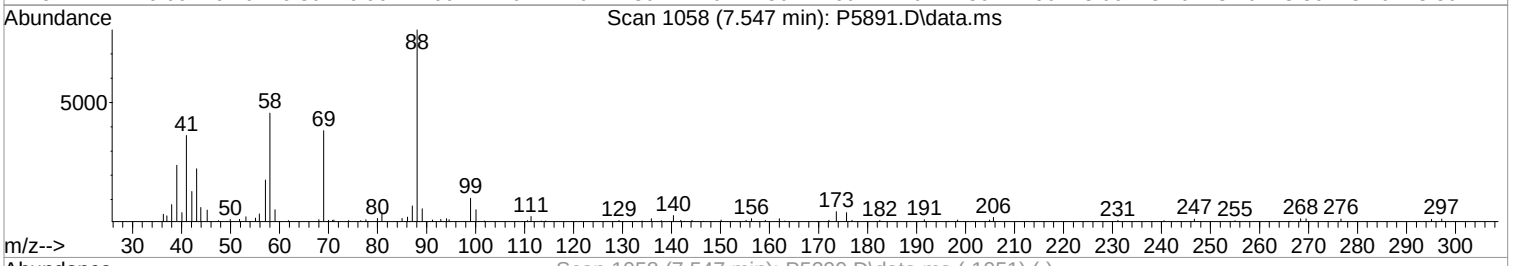
1st 10/25/16
2nd 10/25/16

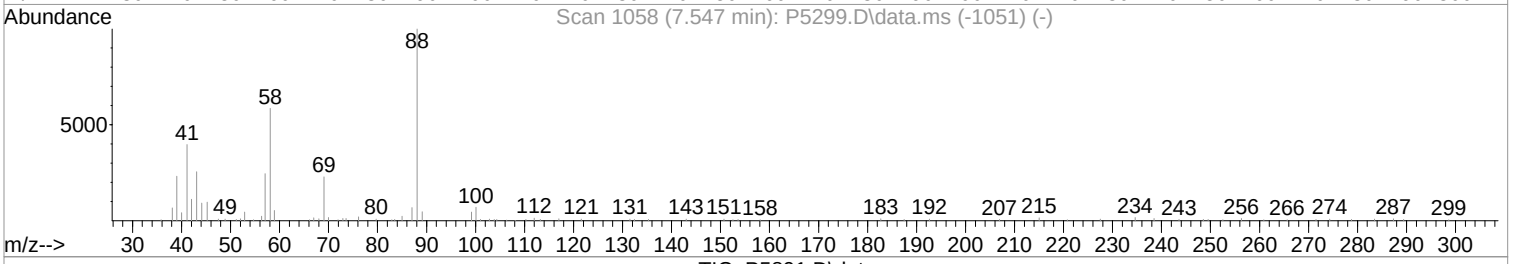
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5891.D
Acq On : 24 Oct 2016 10:45 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 11:12:49 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5891.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 295.01 ppb

response 16213

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	57.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/24/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5891.D
Acq On : 24 Oct 2016 10:45 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 11:13:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	823506	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1376626	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1308037	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	676391	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	397279	54.07	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.14%				
48) surr1,1,2-dichloroetha...	6.090	65	433911	51.99	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.98%				
65) SURR3,Toluene-d8	8.529	98	1689553	56.12	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.24%				
70) SURR2,BFB	11.047	95	650268	55.36	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	197146	22.05	ppb		97
3) Chloromethane	1.347	50	184859	24.23	ppb		95
4) Vinyl Chloride	1.427	62	154315	23.69	ppb		98
5) Bromomethane	1.683	94	87258	22.82	ppb		100
6) Chloroethane	1.762	64	73166	23.07	ppb		85
7) Freon 21	1.927	67	164516	19.07	ppb		98
8) Trichlorofluoromethane	1.975	101	149711	19.85	ppb		96
9) Diethyl Ether	2.225	59	69614	20.92	ppb		94
10) Freon 123a	2.231	67	107287	20.45	ppb	#	80
11) Freon 123	2.292	83	134744	19.78	ppb		93
12) Acrolein	2.341	56	23489	52.18	ppb		93
13) 1,1-Diclethene	2.426	96	129136	22.55	ppb		96
14) Freon 113	2.439	101	133240	21.94	ppb		98
15) Acetone	2.481	43	32304	24.05	ppb		91
16) 2-Propanol	2.640	45	111805	390.36	ppb		97
17) Iodomethane	2.567	142	165577	21.51	ppb		99
18) Carbon Disulfide	2.634	76	449403	24.93	ppb		99
19) Acetonitrile	2.756	40	25186	106.53	ppb		86
20) Allyl Chloride	2.792	76	73203	21.98	ppb	#	91
21) Methyl Acetate	2.823	43	66908	21.99	ppb		97
22) Methylene Chloride	2.920	84	139608	23.12	ppb		96
23) TBA	3.085	59	199577	437.63	ppb		97
24) Acrylonitrile	3.207	53	172587	110.62	ppb		97
25) Methyl-t-Butyl Ether	3.262	73	354616	22.02	ppb		98
26) trans-1,2-Dichloroethene	3.243	96	145206	22.55	ppb		93
28) 1,1-Diclethane	3.786	63	259718	24.29	ppb		97
29) Vinyl Acetate	3.896	86	26932	28.04	ppb	#	91
30) DIPE	3.944	45	507470	24.10	ppb		98
31) 2-Chloro-1,3-Butadiene	3.920	53	236229	23.33	ppb		96
32) ETBE	4.524	59	436255	23.32	ppb		98
33) 2,2-Dichloropropane	4.694	77	216018	22.45	ppb		97
34) cis-1,2-Dichloroethene	4.713	96	160717	24.46	ppb		97
35) 2-Butanone	4.774	43	45029	24.38	ppb		82
36) Propionitrile	4.859	54	67682	123.28	ppb		89
37) Bromochloromethane	5.139	130	84347	22.47	ppb		94
38) Methacrylonitrile	5.152	67	40066	21.16	ppb		99
39) Tetrahydrofuran	5.237	42	29271	21.16	ppb		78
40) Chloroform	5.334	83	237227	22.79	ppb		93
41) 1,1,1-Trichloroethane	5.590	97	206204	21.48	ppb		97

1st 10/25/16
2nd 10/25/16

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5891.D
Acq On : 24 Oct 2016 10:45 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 11:13:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.395	73	391834	23.16	ppb		96
44)	Cyclohexane	5.670	41	145654	19.74	ppb		93
46)	Carbontetrachloride	5.859	121	53230	18.36	ppb		91
47)	1,1-Dichloropropene	5.865	75	201042	21.65	ppb		97
49)	Benzene	6.164	78	563865	22.04	ppb		97
50)	1,2-Dichloroethane	6.212	62	172517	20.76	ppb		95
51)	Iso-Butyl Alcohol	6.200	43	92286	412.74	ppb		94
52)	n-Heptane	6.639	43	188833	20.65	ppb		96
53)	1-Butanol	7.115	56	139291	1050.91	ppb		99
54)	Trichloroethene	7.078	130	147498	20.29	ppb		86
55)	Methylcyclohexane	7.310	55	186322	20.50	ppb		97
56)	1,2-Diclpropane	7.352	63	154251	22.72	ppb		100
57)	Dibromomethane	7.493	93	71264	19.69	ppb		90
58)	1,4-Dioxane	7.547	88	22574m	410.76	ppb		
59)	Methyl Methacrylate	7.572	69	79399	21.25	ppb		92
60)	Bromodichloromethane	7.712	83	170221	19.37	ppb		100
61)	2-Nitropropane	7.986	41	42419	32.11	ppb		83
62)	2-Chloroethylvinyl Ether	8.102	63	59817	20.61	ppb		85
63)	cis-1,3-Dichloropropene	8.236	75	238190	21.63	ppb		96
64)	4-Methyl-2-pentanone	8.437	43	105459	23.20	ppb		96
66)	Toluene	8.602	91	631838	22.22	ppb		96
67)	trans-1,3-Dichloropropene	8.864	75	193788	19.63	ppb		94
68)	Ethyl Methacrylate	8.998	69	157008	20.54	ppb		100
69)	1,1,2-Trichloroethane	9.047	97	108412	21.89	ppb		96
72)	Tetrachloroethene	9.181	164	109703	18.68	ppb		97
73)	2-Hexanone	9.328	43	70476	21.72	ppb		91
74)	1,3-Dichloropropane	9.212	76	196466	21.16	ppb		95
75)	Dibromochloromethane	9.431	129	116445	19.11	ppb		98
76)	N-Butyl Acetate	9.480	43	170417	18.70	ppb		95
77)	1,2-Dibromoethane	9.529	107	108036	21.27	ppb		86
78)	Chlorobenzene	10.016	112	399749	20.57	ppb		95
79)	3-CBTF	10.029	180	202987	18.89	ppb		96
80)	4-CBTF	10.083	180	181502	18.68	ppb		93
81)	1,1,1,2-Tetrachloroethane	10.096	131	139023	20.06	ppb		95
82)	Ethylbenzene	10.132	106	221638	20.92	ppb		99
83)	(m+p)Xylene	10.242	106	552942	43.25	ppb		96
84)	o-Xylene	10.596	106	272706	20.84	ppb		98
85)	Styrene	10.608	104	442430	20.68	ppb		97
87)	Bromoform	10.760	173	63803	20.16	ppb		91
88)	2-CBTF	10.833	180	198123	19.76	ppb		95
89)	Isopropylbenzene	10.925	105	686324	22.51	ppb		96
90)	Cyclohexanone	10.986	55	135871	460.50	ppb		94
91)	trans-1,4-Dichloro-2-B...	11.230	53	33936	20.28	ppb		93
92)	1,1,2,2-Tetrachloroethane	11.181	83	127242	22.78	ppb		95
93)	Bromobenzene	11.169	156	160812	19.88	ppb	#	82
94)	1,2,3-Trichloropropane	11.211	110	37317	20.98	ppb		94
95)	n-Propylbenzene	11.278	91	832125	23.42	ppb		97
96)	2-Chlorotoluene	11.339	91	474280	22.57	ppb		98
97)	3-Chlorotoluene	11.394	91	487893	22.53	ppb		99
98)	4-Chlorotoluene	11.431	91	550839	22.19	ppb		99
99)	1,3,5-Trimethylbenzene	11.425	105	573476	22.41	ppb		95
100)	tert-Butylbenzene	11.699	119	496068	21.83	ppb		97
101)	1,2,4-Trimethylbenzene	11.736	105	586433	21.99	ppb		99
102)	3,4-DCBTF	11.797	214	144238	18.51	ppb		92
103)	sec-Butylbenzene	11.882	105	722237	22.50	ppb		98
104)	p-Isopropyltoluene	11.998	119	616414	22.03	ppb		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5891.D
Acq On : 24 Oct 2016 10:45 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 11:13:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

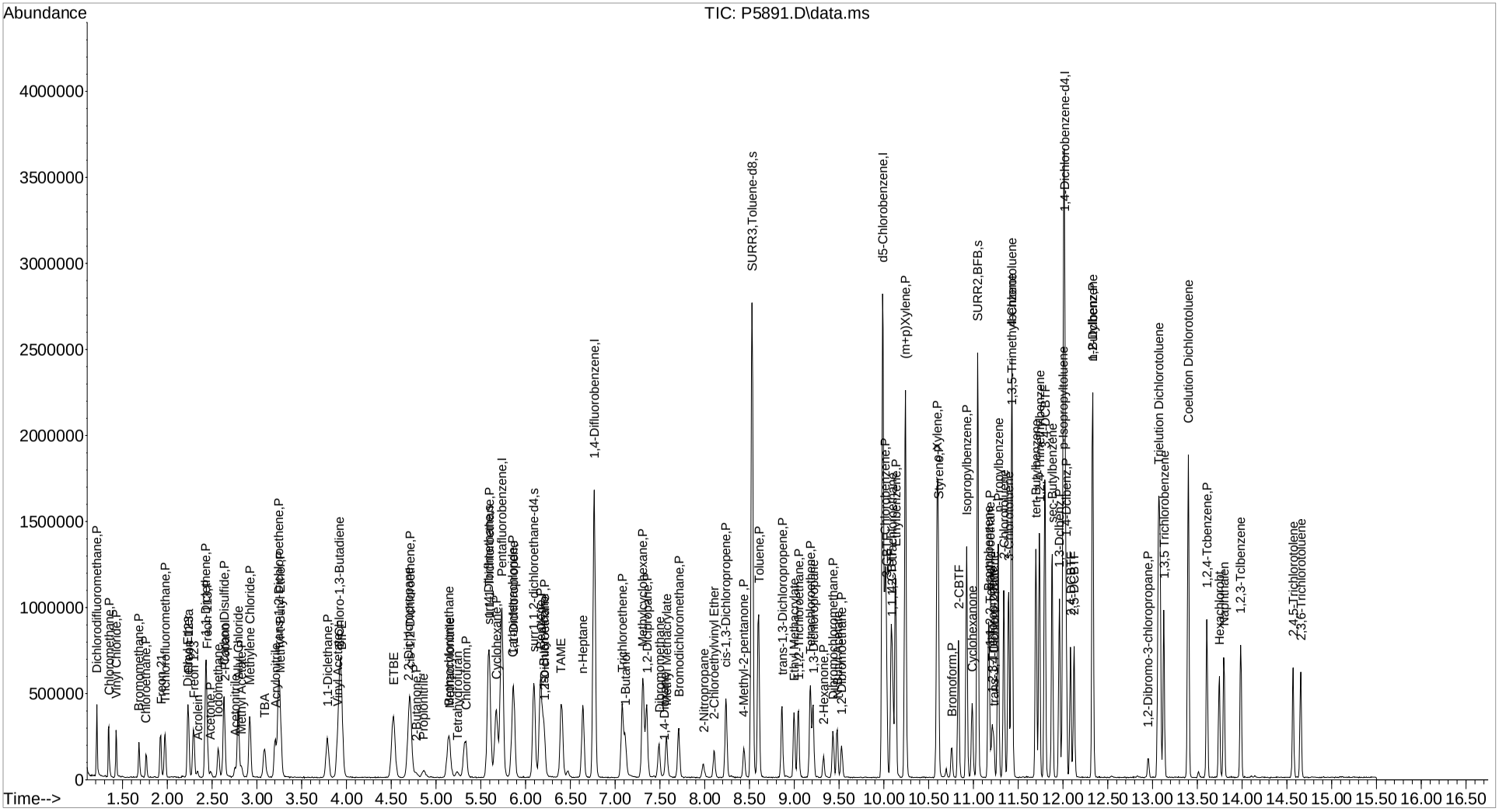
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	322233	20.72	ppb	98
106) 1,4-Dclbenz	12.034	146	315069	20.03	ppb	98
107) 2,4-DCBTF	12.083	214	137967	19.10	ppb	99
108) 2,5-DCBTF	12.126	214	146267	17.80	ppb	96
109) n-Butylbenzene	12.333	91	557601	22.54	ppb	97
110) 1,2-Dclbenz	12.333	146	310114	21.43	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.949	157	23706	19.55	ppb	91
112) Trielution Dichlorotol...	13.071	125	823441	62.49	ppb	98
113) 1,3,5 Trichlorobenzene	13.126	180	221840	19.23	ppb	98
114) Coelution Dichlorotoluene	13.400	125	604052	42.43	ppb	96
115) 1,2,4-Tcbenzene	13.607	180	210309	20.08	ppb	96
116) Hexachlorobt	13.747	225	79693	18.01	ppb	96
117) Naphthalen	13.796	128	408930	22.54	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	179713	19.91	ppb	90
119) 2,4,5-Trichlorotolene	14.570	159	126718	19.96	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	117764	20.05	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5891.D
Acq On : 24 Oct 2016 10:45 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 11:13:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5951.D
Acq On : 26 Oct 2016 9:21 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:39:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	820171	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1330915	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1211757	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	625631	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	389554	54.84	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.68%				
48) surr1,1,2-dichloroetha...	6.090	65	422939	52.42	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.84%				
65) SURR3,Toluene-d8	8.529	98	1669659	57.36	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.72%				
70) SURR2,BFB	11.047	95	592081	52.14	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.28%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	148510	16.68	ppb		98
3) Chloromethane	1.341	50	144269	18.98	ppb		99
4) Vinyl Chloride	1.427	62	120247	18.53	ppb		98
5) Bromomethane	1.683	94	57965	15.01	ppb		93
6) Chloroethane	1.762	64	62554	19.74	ppb		96
7) Freon 21	1.920	67	157403	18.32	ppb		96
8) Trichlorofluoromethane	1.969	101	121141	16.13	ppb		99
9) Diethyl Ether	2.225	59	62476	18.86	ppb		93
10) Freon 123a	2.231	67	94630	18.11	ppb		88
11) Freon 123	2.286	83	124337	18.33	ppb		90
12) Acrolein	2.335	56	17325	38.64	ppb		86
13) 1,1-Diclethene	2.426	96	102131	17.90	ppb		97
14) Freon 113	2.438	101	105798	17.50	ppb		89
15) Acetone	2.481	43	34800	26.02	ppb		92
16) 2-Propanol	2.634	45	105811	370.93	ppb		99
17) Iodomethane	2.567	142	109199	14.24	ppb		99
18) Carbon Disulfide	2.627	76	353175	19.67	ppb		99
19) Acetonitrile	2.756	40	19610	83.28	ppb		95
20) Allyl Chloride	2.786	76	62444	18.83	ppb		93
21) Methyl Acetate	2.823	43	60605	20.00	ppb		97
22) Methylene Chloride	2.920	84	123683	20.56	ppb		94
23) TBA	3.085	59	171113	376.74	ppb		96
24) Acrylonitrile	3.201	53	166147	106.93	ppb		91
25) Methyl-t-Butyl Ether	3.255	73	317516	19.80	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	122505	19.10	ppb		99
28) 1,1-Diclethane	3.780	63	214954	20.19	ppb		96
29) Vinyl Acetate	3.902	86	23535	24.60	ppb	#	81
30) DIPE	3.932	45	512787	24.46	ppb		97
31) 2-Chloro-1,3-Butadiene	3.920	53	186148	18.46	ppb		97
32) ETBE	4.517	59	439789	23.60	ppb		98
33) 2,2-Dichloropropane	4.688	77	170835	17.83	ppb		96
34) cis-1,2-Dichloroethene	4.706	96	145264	22.20	ppb		94
35) 2-Butanone	4.773	43	45057	24.49	ppb		87
36) Propionitrile	4.865	54	59689	109.16	ppb		95
37) Bromochloromethane	5.133	130	77471	20.73	ppb		89
38) Methacrylonitrile	5.145	67	36842	19.53	ppb		89
39) Tetrahydrofuran	5.231	42	27011	19.61	ppb		85
40) Chloroform	5.322	83	201413	19.43	ppb		96
41) 1,1,1-Trichloroethane	5.590	97	164535	17.21	ppb		95

1st 10/26/16
2nd 10/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5951.D
Acq On : 26 Oct 2016 9:21 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:39:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.395	73	389200	23.10	ppb		96
44)	Cyclohexane	5.670	41	121901	17.09	ppb		96
46)	Carbontetrachloride	5.852	121	41699	14.88	ppb		92
47)	1,1-Dichloropropene	5.865	75	154663	17.23	ppb		95
49)	Benzene	6.163	78	479035	19.37	ppb		97
50)	1,2-Dichloroethane	6.206	62	156102	19.43	ppb		95
51)	Iso-Butyl Alcohol	6.188	43	81158	375.44	ppb		100
52)	n-Heptane	6.639	43	148189	16.76	ppb		91
53)	1-Butanol	7.108	56	131047	1022.67	ppb		94
54)	Trichloroethene	7.078	130	129852	18.48	ppb		91
55)	Methylcyclohexane	7.309	55	153172	17.43	ppb		96
56)	1,2-Diclpropane	7.346	63	132643	20.21	ppb		96
57)	Dibromomethane	7.486	93	66127	18.90	ppb		92
58)	1,4-Dioxane	7.547	88	17938	337.61	ppb		87
59)	Methyl Methacrylate	7.572	69	71441	19.77	ppb		97
60)	Bromodichloromethane	7.706	83	147559	17.37	ppb		96
61)	2-Nitropropane	7.980	41	34138	26.73	ppb		89
62)	2-Chloroethylvinyl Ether	8.102	63	54985	19.60	ppb		93
63)	cis-1,3-Dichloropropene	8.236	75	200020	18.79	ppb		96
64)	4-Methyl-2-pentanone	8.437	43	96085	21.86	ppb		96
66)	Toluene	8.596	91	531669	19.34	ppb		96
67)	trans-1,3-Dichloropropene	8.858	75	170950	17.91	ppb		100
68)	Ethyl Methacrylate	8.998	69	146404	19.81	ppb		98
69)	1,1,2-Trichloroethane	9.041	97	99012	20.68	ppb		97
72)	Tetrachloroethene	9.175	164	88568	16.28	ppb		93
73)	2-Hexanone	9.327	43	66134	22.00	ppb		96
74)	1,3-Dichloropropane	9.205	76	173451	20.17	ppb		96
75)	Dibromochloromethane	9.431	129	104167	18.46	ppb		96
76)	N-Butyl Acetate	9.480	43	160142	18.96	ppb		93
77)	1,2-Dibromoethane	9.529	107	98578	20.95	ppb		88
78)	Chlorobenzene	10.010	112	353924	19.66	ppb		96
79)	3-CBTF	10.028	180	213792	21.48	ppb		95
80)	4-CBTF	10.083	180	192160	21.35	ppb		91
81)	1,1,1,2-Tetrachloroethane	10.096	131	116213	18.10	ppb		94
82)	Ethylbenzene	10.132	106	190550	19.42	ppb		96
83)	(m+p)Xylene	10.242	106	469682	39.65	ppb		99
84)	o-Xylene	10.595	106	231179	19.07	ppb		94
85)	Styrene	10.608	104	393988	19.88	ppb		97
87)	Bromoform	10.754	173	56262	19.22	ppb		96
88)	2-CBTF	10.833	180	202214	21.80	ppb		96
89)	Isopropylbenzene	10.925	105	573805	20.35	ppb		97
90)	Cyclohexanone	10.986	55	197551	723.87	ppb		96
91)	trans-1,4-Dichloro-2-B...	11.223	53	29842	19.28	ppb		94
92)	1,1,2,2-Tetrachloroethane	11.181	83	116601	22.57	ppb		98
93)	Bromobenzene	11.169	156	142258	19.01	ppb		93
94)	1,2,3-Trichloropropane	11.211	110	32042	19.47	ppb	#	89
95)	n-Propylbenzene	11.278	91	684744	20.83	ppb		95
96)	2-Chlorotoluene	11.339	91	400866	20.62	ppb		96
97)	3-Chlorotoluene	11.388	91	509075	25.41	ppb		95
98)	4-Chlorotoluene	11.431	91	472128	20.56	ppb		99
99)	1,3,5-Trimethylbenzene	11.425	105	487661	20.61	ppb		94
100)	tert-Butylbenzene	11.699	119	408140	19.42	ppb		97
101)	1,2,4-Trimethylbenzene	11.735	105	498023	20.19	ppb		99
102)	3,4-DCBTF	11.796	214	157134	21.80	ppb		88
103)	sec-Butylbenzene	11.876	105	590551	19.89	ppb		94
104)	p-Isopropyltoluene	11.998	119	509948	19.70	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5951.D
Acq On : 26 Oct 2016 9:21 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:39:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

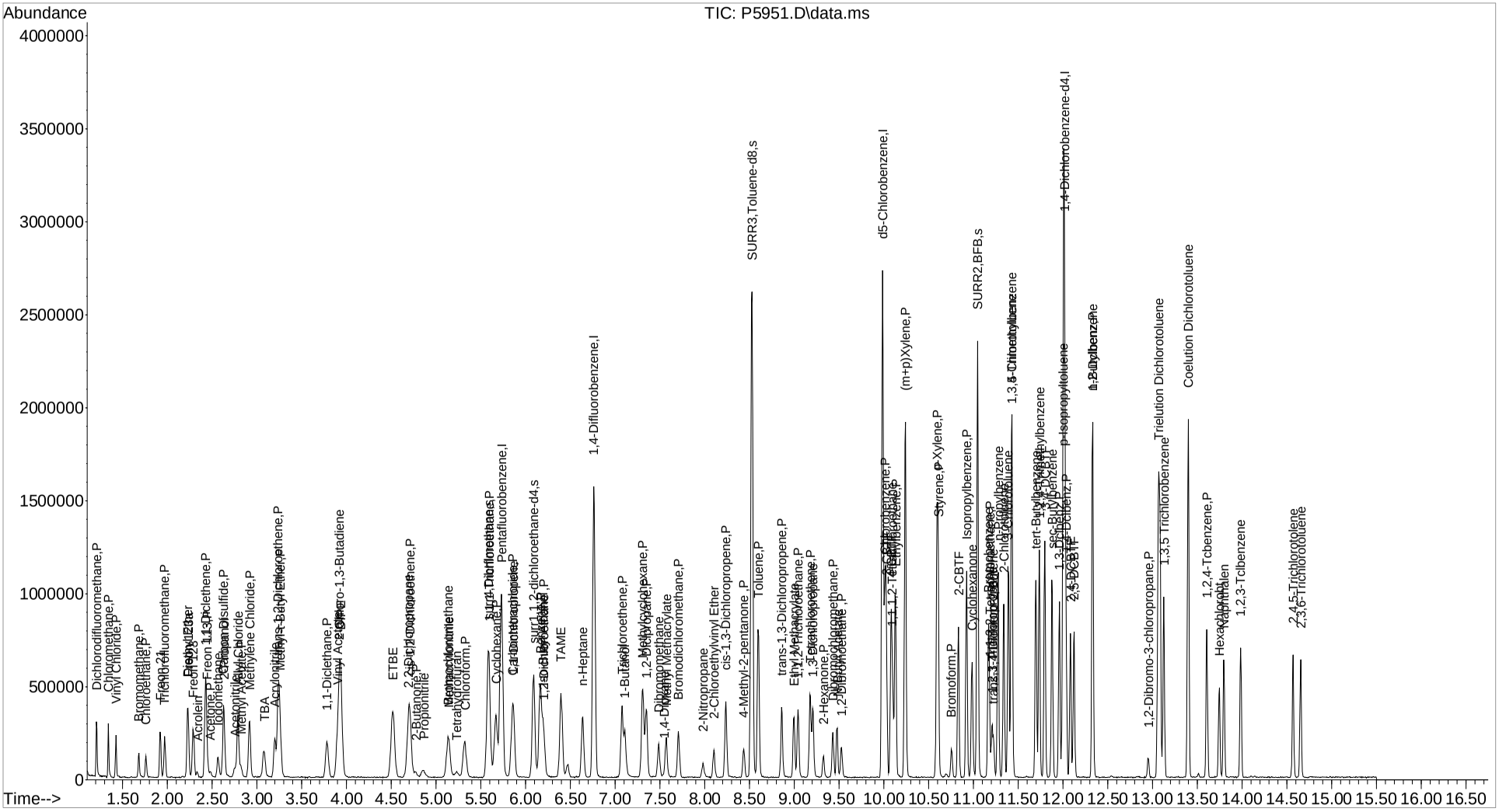
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	285481	19.84	ppb		97
106) 1,4-Dclbenz	12.034	146	286055	19.67	ppb		95
107) 2,4-DCBTF	12.083	214	140585	21.04	ppb		95
108) 2,5-DCBTF	12.126	214	147388	19.39	ppb		96
109) n-Butylbenzene	12.333	91	460991	20.14	ppb		91
110) 1,2-Dclbenz	12.333	146	280222	20.93	ppb		95
111) 1,2-Dibromo-3-chloropr...	12.955	157	20231	18.03	ppb	#	66
112) Trielution Dichlorotol...	13.071	125	854851	70.14	ppb		99
113) 1,3,5 Trichlorobenzene	13.125	180	230490	21.60	ppb		97
114) Coelution Dichlorotoluene	13.400	125	610605	46.37	ppb		96
115) 1,2,4-Tcbenzene	13.607	180	185413	19.14	ppb		97
116) Hexachlorobt	13.747	225	67890	16.59	ppb		94
117) Naphthalen	13.796	128	361375	21.53	ppb		98
118) 1,2,3-Tclbenzene	13.985	180	160381	19.21	ppb		99
119) 2,4,5-Trichlorotolene	14.570	159	132216	22.52	ppb		98
120) 2,3,6-Trichlorotoluene	14.656	159	117617	21.65	ppb		92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5951.D
Acq On : 26 Oct 2016 9:21 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

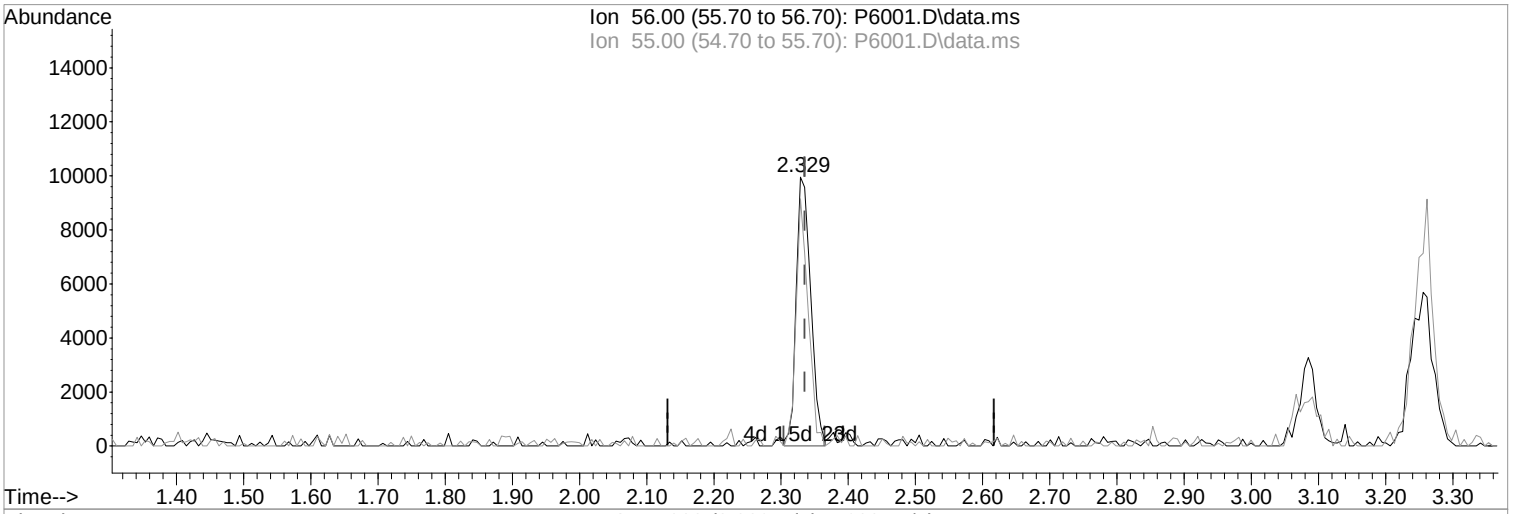
Quant Time: Oct 26 09:39:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

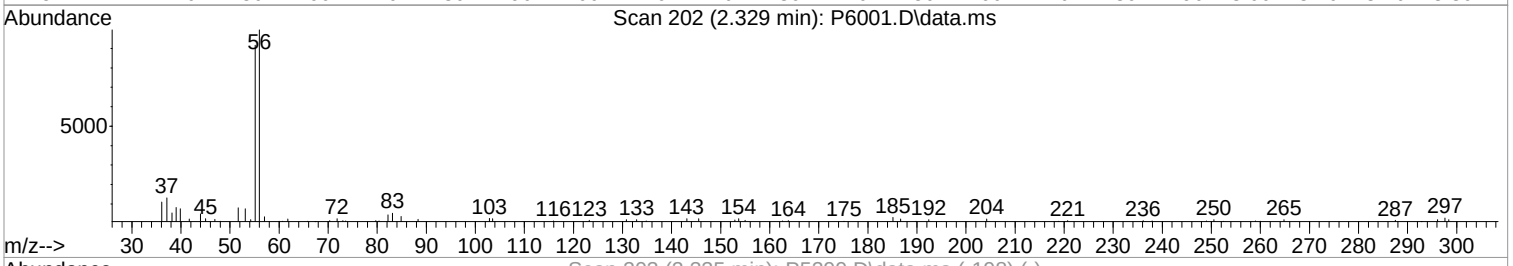


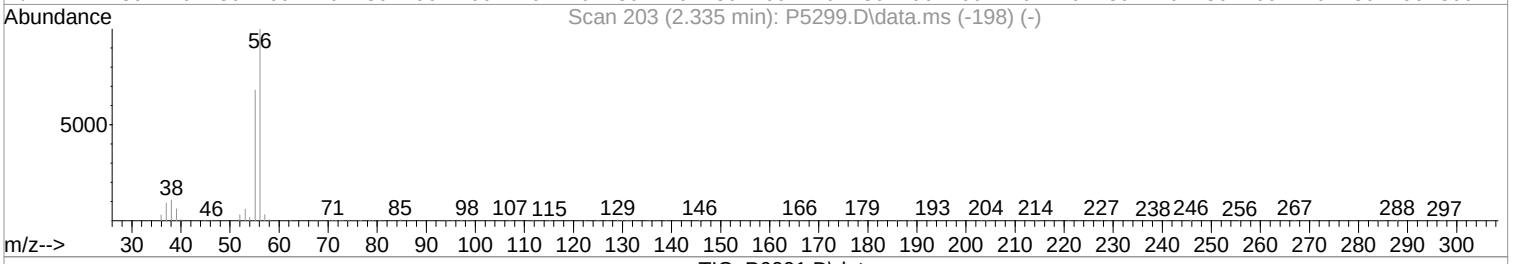
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:13:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6001.D\data.ms

(12) Acrolein

2.329min (-0.006) 34.53 ppb m

response 14977

Ion	Exp%	Act%
56.00	100	100
55.00	68.70	91.95#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

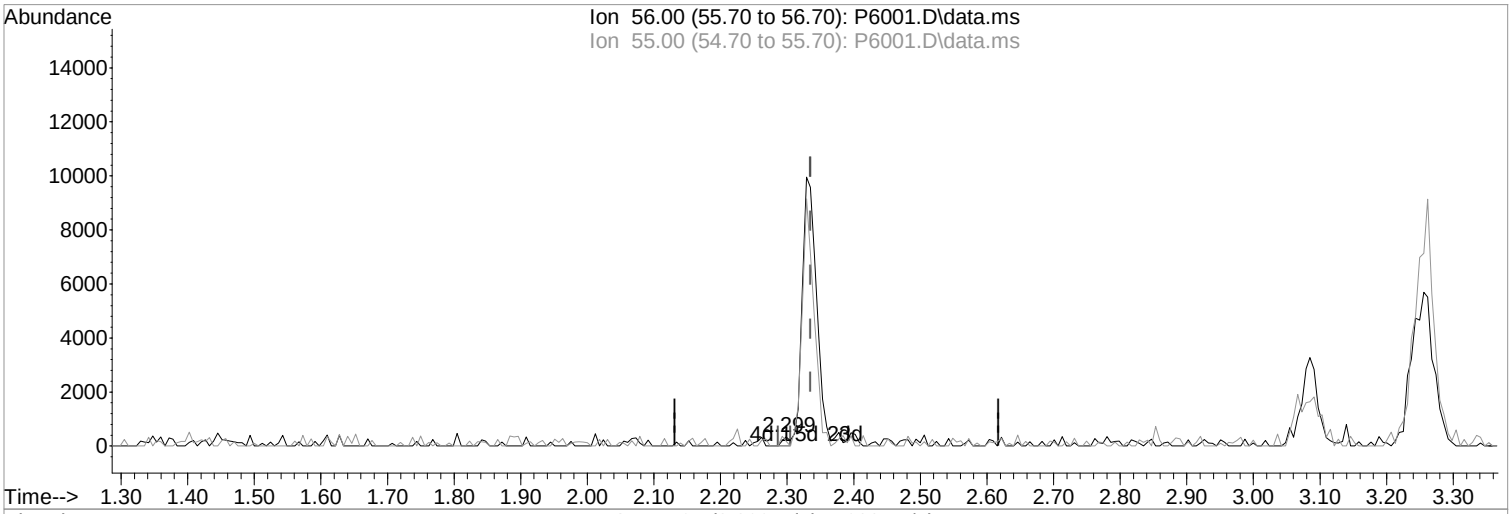
Peak not found.

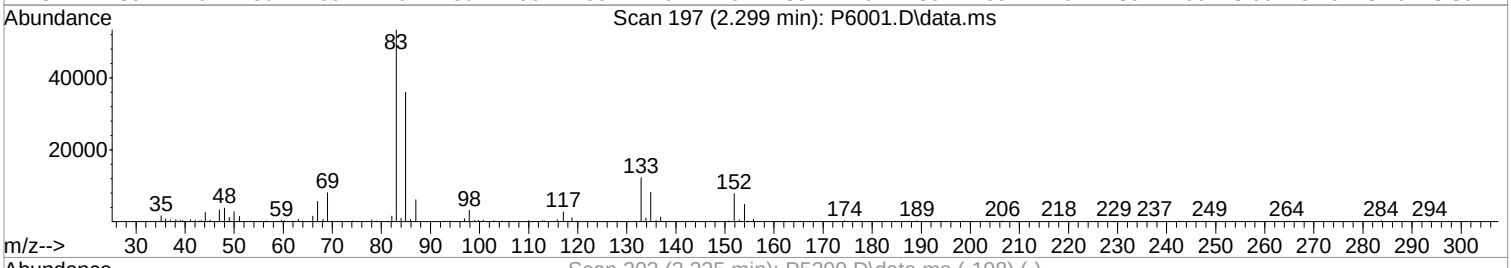
10/27/16

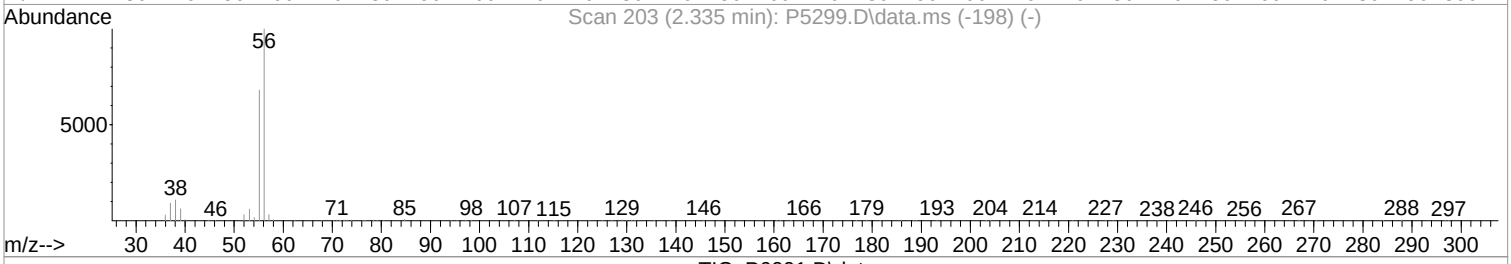
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:13:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6001.D\data.ms

(12) Acrolein

2.299min (-0.037) 0.62 ppb

response 268

Ion	Exp%	Act%
56.00	100	100
55.00	68.70	54.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

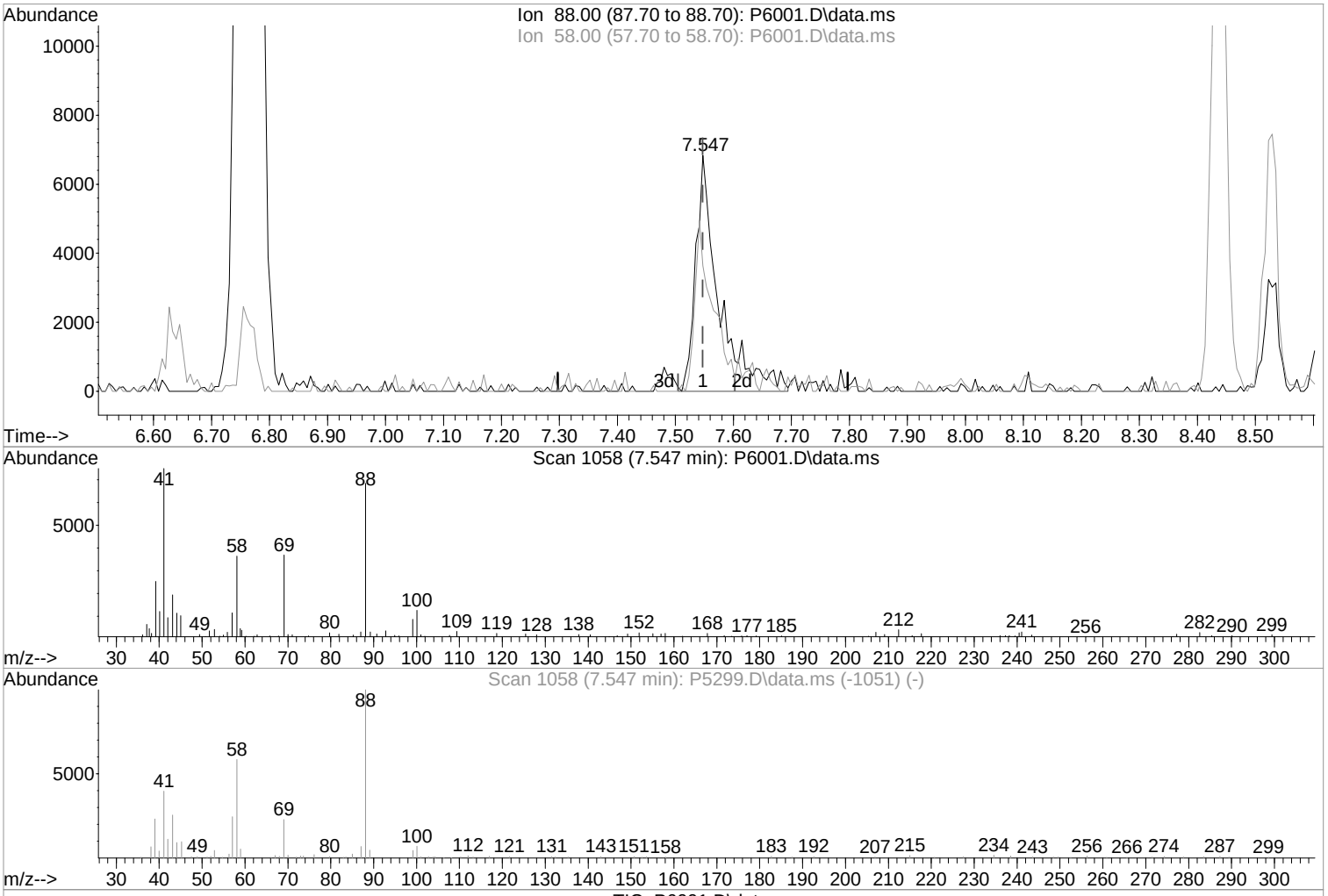
Before

10/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:11:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6001.D\data.ms

(58) 1,4-Dioxane

7.547min (+0.000) 369.14 ppb m

response 19141

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	53.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

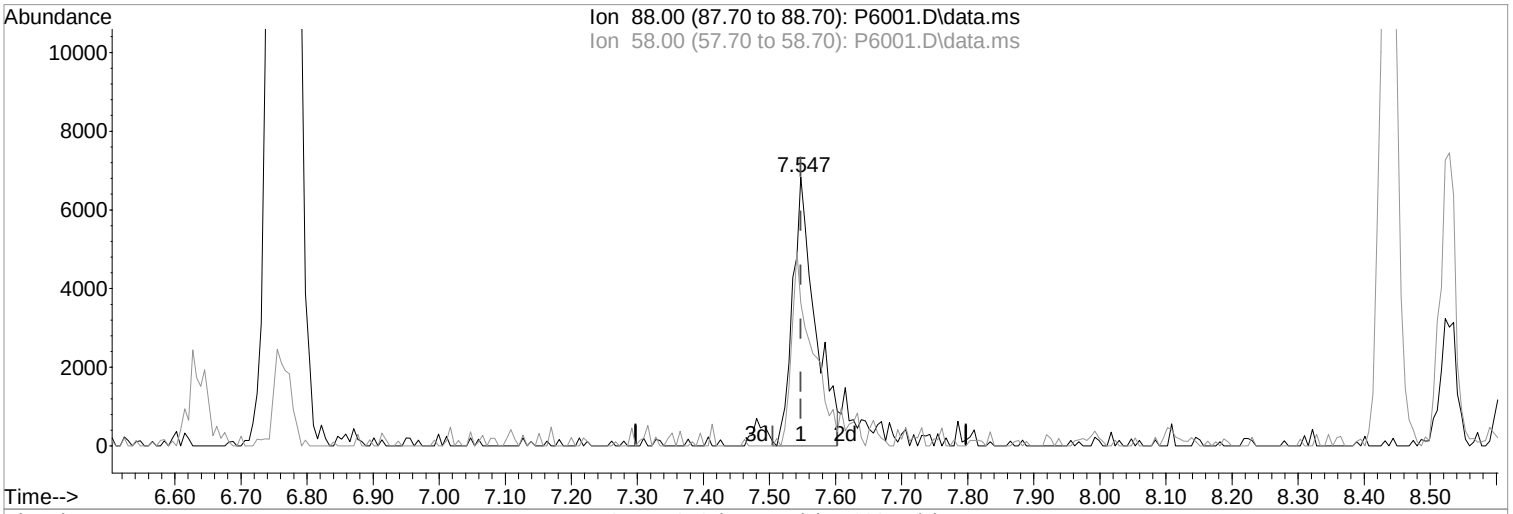
Poor integration.

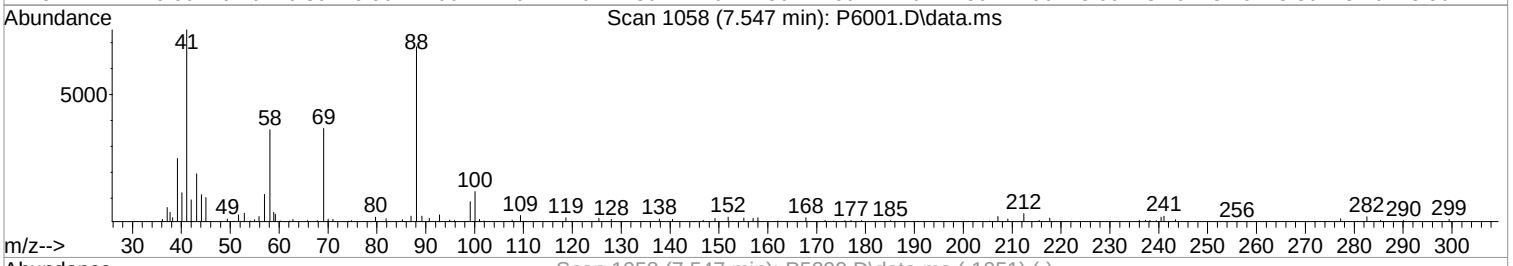
10/27/16

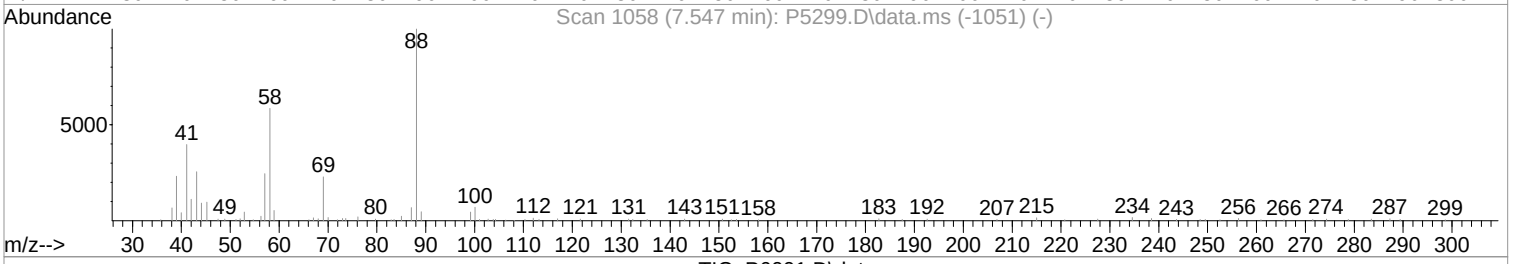
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:11:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6001.D\data.ms

(58) 1,4-Dioxane

7.547min (+0.000) 310.20 ppb

response 16085

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	53.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:15:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	793514	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1298879	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1187568	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	610860	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	388147	55.99	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 111.98%				
48) surr1,1,2-dichloroetha...	6.090	65	409971	52.06	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.12%				
65) SURR3,Toluene-d8	8.529	98	1609171	56.65	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.30%				
70) SURR2,BFB	11.047	95	580156	52.35	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	169415	19.67	ppb		99
3) Chloromethane	1.341	50	160002	21.76	ppb		99
4) Vinyl Chloride	1.427	62	132948	21.18	ppb		99
5) Bromomethane	1.683	94	56132	15.02	ppb		90
6) Chloroethane	1.762	64	65732	21.48	ppb		82
7) Freon 21	1.921	67	153511	18.47	ppb		92
8) Trichlorofluoromethane	1.969	101	133698	18.40	ppb		98
9) Diethyl Ether	2.225	59	63445	19.79	ppb		95
10) Freon 123a	2.231	67	92072	18.22	ppb		93
11) Freon 123	2.292	83	122156	18.61	ppb		97
12) Acrolein	2.329	56	14977m	34.53	ppb		
13) 1,1-Diclethene	2.427	96	123779	22.43	ppb		94
14) Freon 113	2.433	101	120972	20.68	ppb		94
15) Acetone	2.481	43	29733	22.98	ppb		92
16) 2-Propanol	2.634	45	104149	377.37	ppb		99
17) Iodomethane	2.567	142	76445	10.31	ppb		94
18) Carbon Disulfide	2.628	76	364087	20.96	ppb		98
19) Acetonitrile	2.756	40	24621	108.08	ppb	#	83
20) Allyl Chloride	2.792	76	67566	21.06	ppb	#	87
21) Methyl Acetate	2.823	43	67399	22.99	ppb		92
22) Methylene Chloride	2.920	84	131572	22.61	ppb		97
23) TBA	3.085	59	173207	394.16	ppb		99
24) Acrylonitrile	3.201	53	155698	103.57	ppb		97
25) Methyl-t-Butyl Ether	3.256	73	322021	20.76	ppb		99
26) trans-1,2-Dichloroethene	3.237	96	134123	21.62	ppb		90
28) 1,1-Diclethane	3.780	63	234131	22.73	ppb		98
29) Vinyl Acetate	3.896	86	24047	25.98	ppb	#	96
30) DIPE	3.938	45	435275	21.46	ppb		98
31) 2-Chloro-1,3-Butadiene	3.920	53	190167	19.49	ppb		95
32) ETBE	4.518	59	372871	20.68	ppb		98
33) 2,2-Dichloropropane	4.694	77	194909	21.02	ppb		92
34) cis-1,2-Dichloroethene	4.713	96	146524	23.14	ppb		95
35) 2-Butanone	4.774	43	43440	24.40	ppb		83
36) Propionitrile	4.853	54	58296	110.19	ppb		91
37) Bromochloromethane	5.139	130	81866	22.64	ppb		90
38) Methacrylonitrile	5.146	67	38807	21.27	ppb	#	82
39) Tetrahydrofuran	5.231	42	25302	18.99	ppb		85
40) Chloroform	5.328	83	222229	22.16	ppb		92
41) 1,1,1-Trichloroethane	5.591	97	190870	20.63	ppb		95

1st 10/27/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:15:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.401	73	336646	20.65	ppb		98
44)	Cyclohexane	5.670	41	139150	19.99	ppb		98
46)	Carbontetrachloride	5.859	121	46159	16.88	ppb		83
47)	1,1-Dichloropropene	5.865	75	186322	21.27	ppb		96
49)	Benzene	6.164	78	536855	22.24	ppb		97
50)	1,2-Dichloroethane	6.200	62	160785	20.50	ppb		94
51)	Iso-Butyl Alcohol	6.194	43	80872	383.34	ppb		96
52)	n-Heptane	6.639	43	165577	19.19	ppb		99
53)	1-Butanol	7.115	56	111100	888.39	ppb		94
54)	Trichloroethene	7.078	130	142954	20.84	ppb		94
55)	Methylcyclohexane	7.310	55	167065	19.48	ppb		93
56)	1,2-Diclpropane	7.352	63	140271	21.90	ppb		97
57)	Dibromomethane	7.487	93	63995	18.74	ppb		93
58)	1,4-Dioxane	7.547	88	19141m	369.14	ppb		
59)	Methyl Methacrylate	7.572	69	71394	20.25	ppb		92
60)	Bromodichloromethane	7.712	83	157374	18.98	ppb		100
61)	2-Nitropropane	7.980	41	33750	27.08	ppb		93
62)	2-Chloroethylvinyl Ether	8.102	63	52922	19.33	ppb		97
63)	cis-1,3-Dichloropropene	8.236	75	213538	20.55	ppb		97
64)	4-Methyl-2-pentanone	8.438	43	87619	20.43	ppb		98
66)	Toluene	8.596	91	589235	21.97	ppb		98
67)	trans-1,3-Dichloropropene	8.864	75	174687	18.75	ppb		94
68)	Ethyl Methacrylate	8.998	69	145251	20.14	ppb		97
69)	1,1,2-Trichloroethane	9.047	97	98904	21.17	ppb		97
72)	Tetrachloroethene	9.175	164	109375	20.51	ppb	#	88
73)	2-Hexanone	9.328	43	63286	21.48	ppb		92
74)	1,3-Dichloropropane	9.206	76	184180	21.85	ppb		92
75)	Dibromochloromethane	9.431	129	105585	19.09	ppb		99
76)	N-Butyl Acetate	9.480	43	161767	19.55	ppb		98
77)	1,2-Dibromoethane	9.529	107	99275	21.52	ppb		91
78)	Chlorobenzene	10.010	112	378234	21.43	ppb		99
79)	3-CBTF	10.029	180	167046	17.12	ppb		99
80)	4-CBTF	10.084	180	148067	16.79	ppb		97
81)	1,1,1,2-Tetrachloroethane	10.096	131	125988	20.02	ppb		96
82)	Ethylbenzene	10.132	106	202415	21.05	ppb		95
83)	(m+p)Xylene	10.242	106	518445	44.66	ppb		99
84)	o-Xylene	10.596	106	253211	21.32	ppb		97
85)	Styrene	10.608	104	428791	22.07	ppb		98
87)	Bromoform	10.754	173	52751	18.46	ppb		87
88)	2-CBTF	10.833	180	160684	17.75	ppb		94
89)	Isopropylbenzene	10.925	105	660834	24.00	ppb		97
90)	Cyclohexanone	10.986	55	229882	862.71	ppb		94
91)	trans-1,4-Dichloro-2-B...	11.224	53	25191	16.67	ppb	#	72
92)	1,1,2,2-Tetrachloroethane	11.175	83	115521	22.90	ppb		93
93)	Bromobenzene	11.169	156	153847	21.06	ppb		94
94)	1,2,3-Trichloropropane	11.205	110	33208	20.67	ppb	#	82
95)	n-Propylbenzene	11.278	91	773583	24.10	ppb		98
96)	2-Chlorotoluene	11.339	91	435600	22.95	ppb		97
97)	3-Chlorotoluene	11.388	91	404585	20.69	ppb		94
98)	4-Chlorotoluene	11.431	91	514573	22.95	ppb		98
99)	1,3,5-Trimethylbenzene	11.425	105	537203	23.25	ppb		95
100)	tert-Butylbenzene	11.699	119	468140	22.81	ppb		95
101)	1,2,4-Trimethylbenzene	11.736	105	551667	22.90	ppb		99
102)	3,4-DCBTF	11.797	214	119612	16.99	ppb		98
103)	sec-Butylbenzene	11.882	105	680860	23.49	ppb		94
104)	p-Isopropyltoluene	11.998	119	577452	22.85	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:15:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

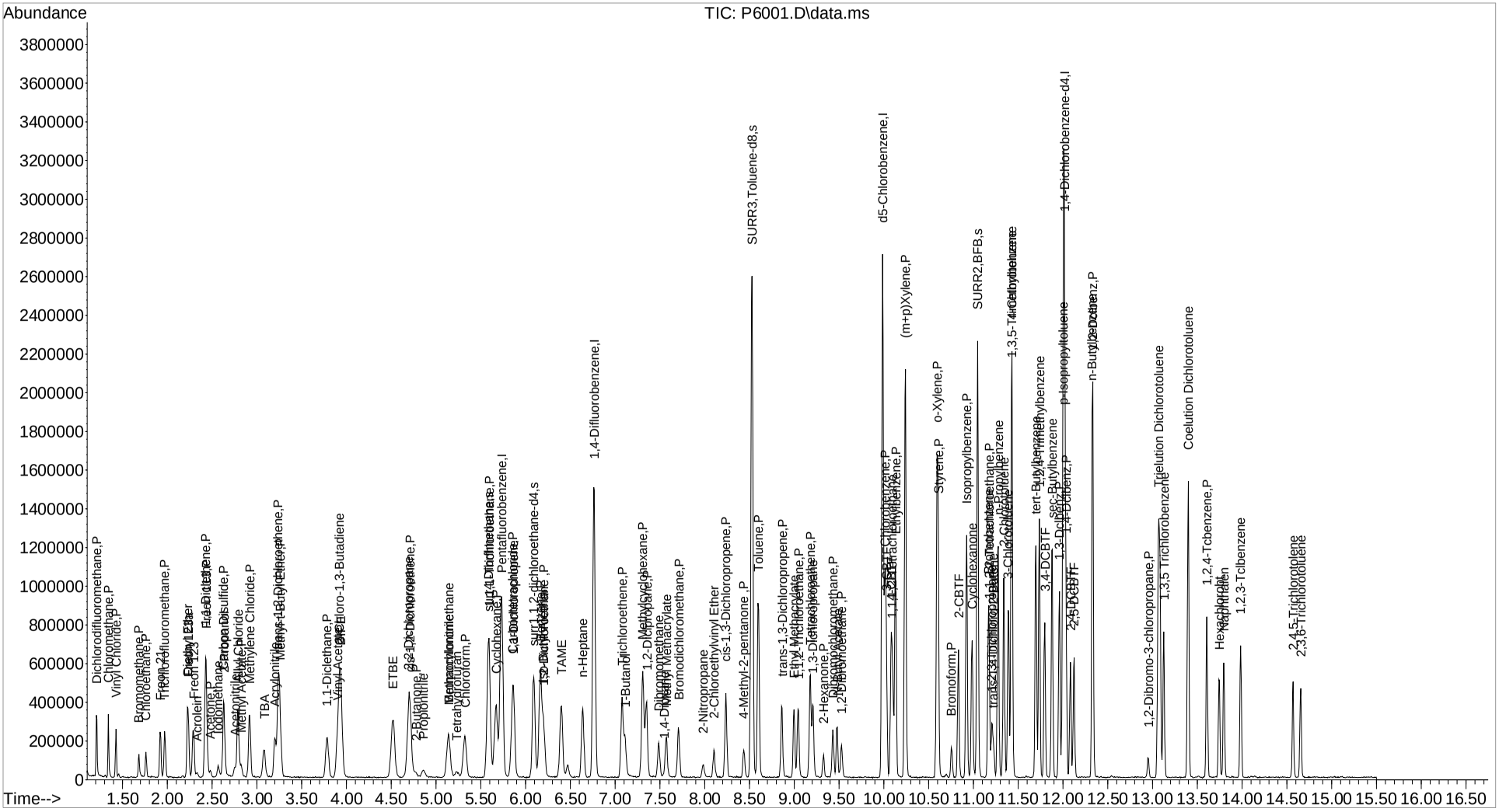
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	298801	21.27	ppb	93
106) 1,4-Dclbenz	12.034	146	300277	21.14	ppb	98
107) 2,4-DCBTF	12.083	214	107252	16.44	ppb	95
108) 2,5-DCBTF	12.126	214	127233	17.14	ppb	94
109) n-Butylbenzene	12.327	91	514491	23.02	ppb	95
110) 1,2-Dclbenz	12.333	146	282046	21.58	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	20431	18.65	ppb	89
112) Trielution Dichlorotol...	13.071	125	676799	56.87	ppb	96
113) 1,3,5 Trichlorobenzene	13.126	180	180917	17.37	ppb	98
114) Coelution Dichlorotoluene	13.400	125	488707	38.01	ppb	97
115) 1,2,4-Tcbenzene	13.607	180	183669	19.42	ppb	94
116) Hexachlorobt	13.748	225	76156	19.06	ppb	98
117) Naphthalen	13.796	128	344751	21.04	ppb	96
118) 1,2,3-Tclbenzene	13.985	180	159138	19.52	ppb	98
119) 2,4,5-Trichlorotolene	14.570	159	102584	17.89	ppb	94
120) 2,3,6-Trichlorotoluene	14.656	159	89279	16.83	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6001.D
Acq On : 27 Oct 2016 11:49 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 12:15:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6024.D
Acq On : 27 Oct 2016 11:23 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 28 08:46:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	803952	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1321006	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1195612	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	612037	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	383309	54.37	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.74%				
48) surr1,1,2-dichloroetha...	6.090	65	429789	53.66	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.32%				
65) SURR3,Toluene-d8	8.529	98	1622346	56.15	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.30%				
70) SURR2,BFB	11.047	95	579607	51.42	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	162232	18.59	ppb		95
3) Chloromethane	1.341	50	151653	20.36	ppb		99
4) Vinyl Chloride	1.427	62	127620	20.06	ppb		100
5) Bromomethane	1.683	94	55128	14.55	ppb		98
6) Chloroethane	1.762	64	65054	20.97	ppb		94
7) Freon 21	1.920	67	152196	18.07	ppb		97
8) Trichlorofluoromethane	1.969	101	136643	18.56	ppb		98
9) Diethyl Ether	2.225	59	60778	18.71	ppb		91
10) Freon 123a	2.231	67	93193	18.20	ppb		87
11) Freon 123	2.286	83	121237	18.23	ppb		96
12) Acrolein	2.329	56	18137	41.27	ppb		100
13) 1,1-Diclethene	2.426	96	119269	21.33	ppb		96
14) Freon 113	2.432	101	120617	20.35	ppb		93
15) Acetone	2.481	43	36766	28.04	ppb		80
16) 2-Propanol	2.640	45	108195	386.94	ppb		91
17) Iodomethane	2.567	142	79195	10.54	ppb		98
18) Carbon Disulfide	2.627	76	415412	23.61	ppb		99
19) Acetonitrile	2.749	40	23735	102.84	ppb		95
20) Allyl Chloride	2.786	76	64059	19.71	ppb	#	82
21) Methyl Acetate	2.823	43	71280	24.00	ppb		93
22) Methylene Chloride	2.914	84	126158	21.40	ppb		95
23) TBA	3.079	59	184974	415.48	ppb		97
24) Acrylonitrile	3.201	53	162853	106.92	ppb		100
25) Methyl-t-Butyl Ether	3.255	73	331484	21.09	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	139696	22.22	ppb		92
28) 1,1-Diclethane	3.786	63	241313	23.12	ppb		97
29) Vinyl Acetate	3.896	86	17757	18.94	ppb		100
30) DIPE	3.938	45	463174	22.54	ppb		98
31) 2-Chloro-1,3-Butadiene	3.920	53	220216	22.28	ppb		97
32) ETBE	4.517	59	403273	22.08	ppb		97
33) 2,2-Dichloropropane	4.694	77	167197	17.80	ppb		91
34) cis-1,2-Dichloroethene	4.712	96	150436	23.45	ppb		95
35) 2-Butanone	4.773	43	47828	26.52	ppb		92
36) Propionitrile	4.859	54	65371	121.96	ppb		97
37) Bromochloromethane	5.139	130	81265	22.18	ppb		89
38) Methacrylonitrile	5.145	67	41258	22.32	ppb		98
39) Tetrahydrofuran	5.237	42	29291	21.69	ppb		93
40) Chloroform	5.322	83	216642	21.32	ppb		99
41) 1,1,1-Trichloroethane	5.590	97	188634	20.13	ppb		89

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6024.D
Acq On : 27 Oct 2016 11:23 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 28 08:46:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.395	73	361602	21.90	ppb		93
44) Cyclohexane	5.670	41	133693	18.88	ppb		93
46) Carbontetrachloride	5.852	121	48278	17.36	ppb		95
47) 1,1-Dichloropropene	5.859	75	184278	20.68	ppb		91
49) Benzene	6.163	78	529459	21.57	ppb		97
50) 1,2-Dichloroethane	6.206	62	158718	19.90	ppb		96
51) Iso-Butyl Alcohol	6.200	43	87835	409.38	ppb		97
52) n-Heptane	6.639	43	155827	17.76	ppb		94
53) 1-Butanol	7.114	56	128248	1008.33	ppb		97
54) Trichloroethene	7.078	130	154620	22.17	ppb		91
55) Methylcyclohexane	7.310	55	170157	19.51	ppb		95
56) 1,2-Diclpropane	7.352	63	136575	20.97	ppb		95
57) Dibromomethane	7.486	93	67372	19.40	ppb		99
58) 1,4-Dioxane	7.541	88	17419	330.30	ppb		94
59) Methyl Methacrylate	7.572	69	76303	21.28	ppb		97
60) Bromodichloromethane	7.706	83	158191	18.76	ppb		99
61) 2-Nitropropane	7.980	41	34547	27.26	ppb		91
62) 2-Chloroethylvinyl Ether	8.102	63	58626	21.05	ppb		94
63) cis-1,3-Dichloropropene	8.236	75	204820	19.38	ppb		98
64) 4-Methyl-2-pentanone	8.437	43	106598	24.44	ppb		97
66) Toluene	8.596	91	587451	21.53	ppb		96
67) trans-1,3-Dichloropropene	8.858	75	165914	17.51	ppb		96
68) Ethyl Methacrylate	8.998	69	153279	20.90	ppb		95
69) 1,1,2-Trichloroethane	9.047	97	99844	21.01	ppb		96
72) Tetrachloroethene	9.175	164	102776	19.15	ppb		98
73) 2-Hexanone	9.327	43	77621	26.17	ppb		98
74) 1,3-Dichloropropane	9.212	76	182843	21.54	ppb		97
75) Dibromochloromethane	9.431	129	108880	19.55	ppb		97
76) N-Butyl Acetate	9.480	43	178927	21.48	ppb		95
77) 1,2-Dibromoethane	9.529	107	98217	21.15	ppb		98
78) Chlorobenzene	10.010	112	376631	21.20	ppb		95
79) 3-CBTF	10.028	180	171226	17.43	ppb		95
80) 4-CBTF	10.083	180	155681	17.53	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.102	131	125574	19.82	ppb		94
82) Ethylbenzene	10.132	106	209464	21.63	ppb		94
83) (m+p)Xylene	10.242	106	518382	44.36	ppb		100
84) o-Xylene	10.595	106	258628	21.63	ppb		100
85) Styrene	10.608	104	423124	21.63	ppb		98
87) Bromoform	10.760	173	56143	19.61	ppb		96
88) 2-CBTF	10.833	180	170725	18.82	ppb		98
89) Isopropylbenzene	10.925	105	645611	23.40	ppb		96
90) Cyclohexanone	10.986	55	254231	952.26	ppb		96
91) trans-1,4-Dichloro-2-B...	11.229	53	21948	14.49	ppb		99
92) 1,1,2,2-Tetrachloroethane	11.181	83	108075	21.38	ppb		93
93) Bromobenzene	11.169	156	149741	20.46	ppb	#	86
94) 1,2,3-Trichloropropane	11.211	110	35798	22.24	ppb		92
95) n-Propylbenzene	11.278	91	762538	23.71	ppb		99
96) 2-Chlorotoluene	11.339	91	428658	22.54	ppb		95
97) 3-Chlorotoluene	11.394	91	442228	22.57	ppb		98
98) 4-Chlorotoluene	11.431	91	503219	22.40	ppb		100
99) 1,3,5-Trimethylbenzene	11.425	105	536221	23.16	ppb		97
100) tert-Butylbenzene	11.699	119	466436	22.69	ppb		97
101) 1,2,4-Trimethylbenzene	11.735	105	538649	22.32	ppb		99
102) 3,4-DCBTF	11.796	214	115674	16.40	ppb		98
103) sec-Butylbenzene	11.882	105	662733	22.82	ppb		96
104) p-Isopropyltoluene	11.998	119	566060	22.35	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6024.D
Acq On : 27 Oct 2016 11:23 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 28 08:46:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	289911	20.60	ppb		96
106) 1,4-Dclbenz	12.034	146	291815	20.51	ppb		99
107) 2,4-DCBTF	12.083	214	112997	17.29	ppb		99
108) 2,5-DCBTF	12.126	214	119650	16.09	ppb		94
109) n-Butylbenzene	12.333	91	499547	22.31	ppb		97
110) 1,2-Dclbenz	12.333	146	279027	21.30	ppb		94
111) 1,2-Dibromo-3-chloropr...	12.955	157	21927	19.98	ppb	#	82
112) Trielution Dichlorotol...	13.071	125	720463	60.43	ppb		98
113) 1,3,5 Trichlorobenzene	13.125	180	193872	18.58	ppb		97
114) Coelution Dichlorotoluene	13.400	125	529596	41.12	ppb		94
115) 1,2,4-Tcbenzene	13.607	180	193129	20.38	ppb		97
116) Hexachlorobt	13.747	225	74377	18.58	ppb		96
117) Naphthalen	13.796	128	374237	22.80	ppb		100
118) 1,2,3-Tclbenzene	13.985	180	169202	20.72	ppb		96
119) 2,4,5-Trichlorotolene	14.570	159	122819	21.38	ppb		99
120) 2,3,6-Trichlorotoluene	14.656	159	103937	19.56	ppb		97

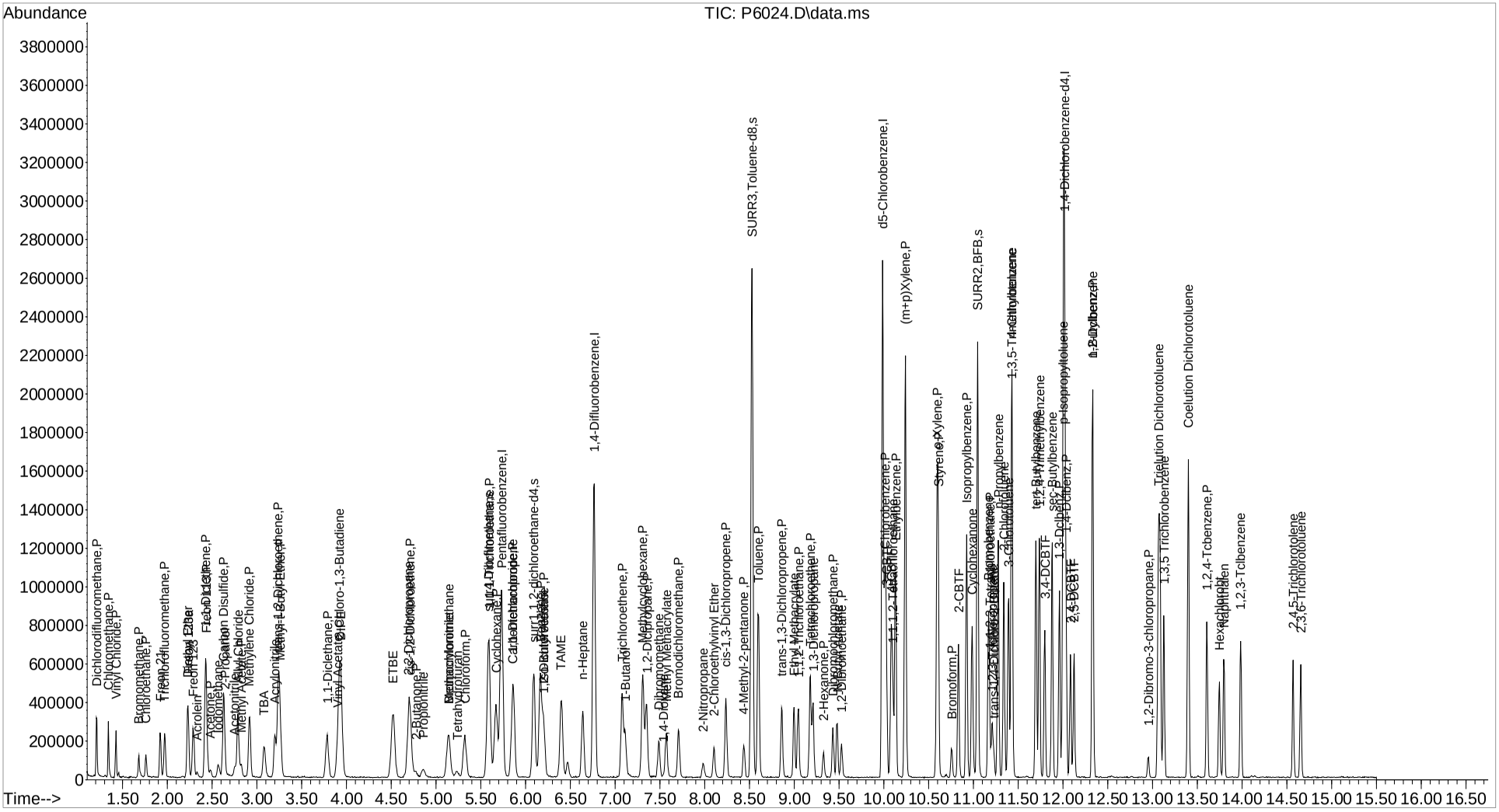
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/28/16 2nd 10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6024.D
Acq On : 27 Oct 2016 11:23 pm
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 27 Sample Multiplier: 1

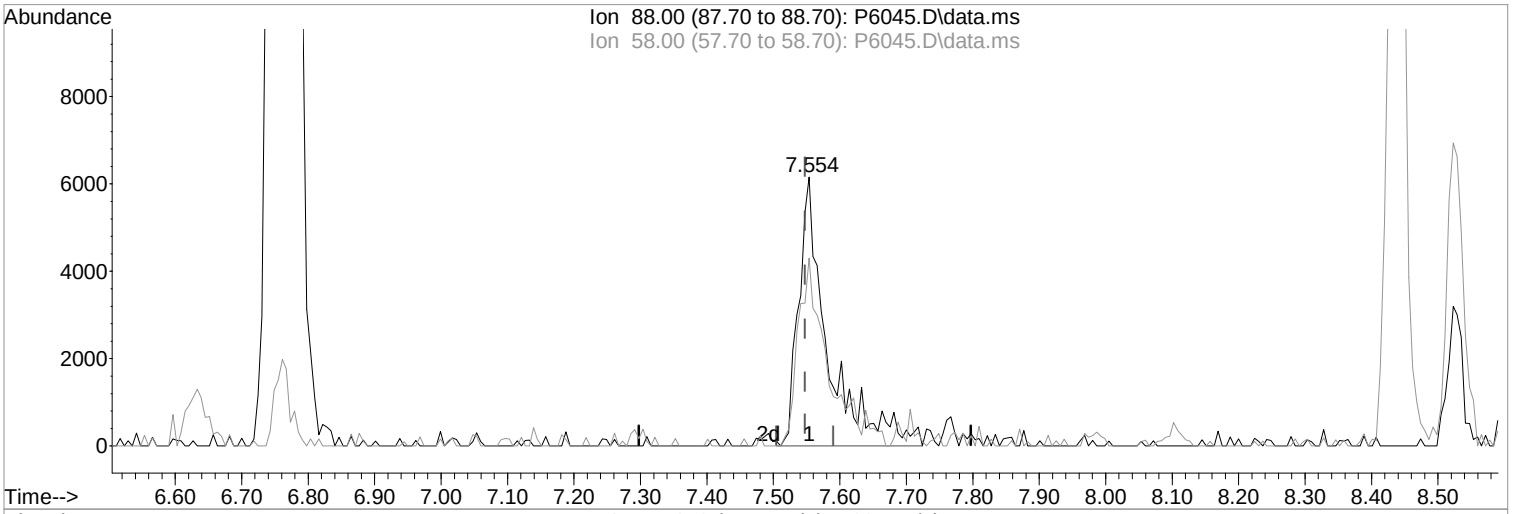
Quant Time: Oct 28 08:46:21 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

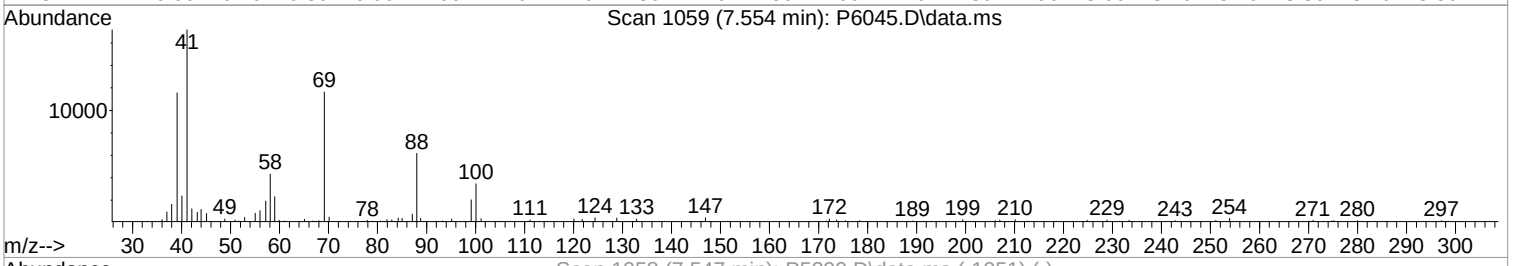


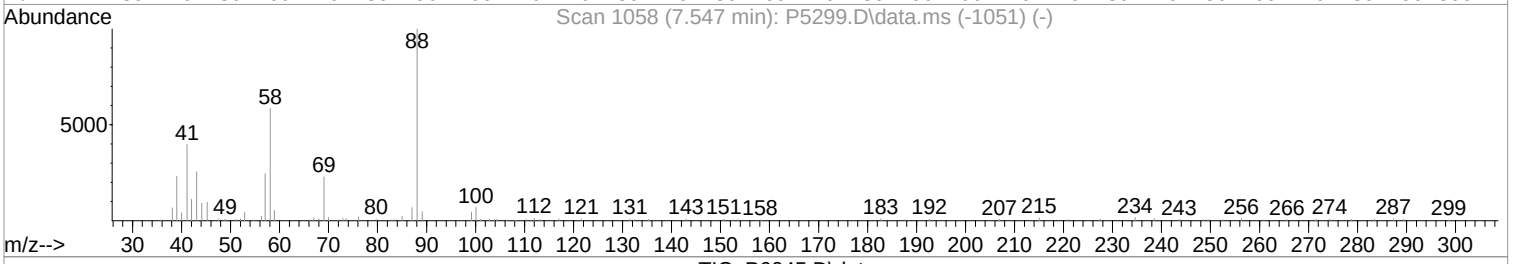
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6045.D
Acq On : 28 Oct 2016 10:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 28 10:59:40 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6045.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 369.02 ppb m

response 18776

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	69.93
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

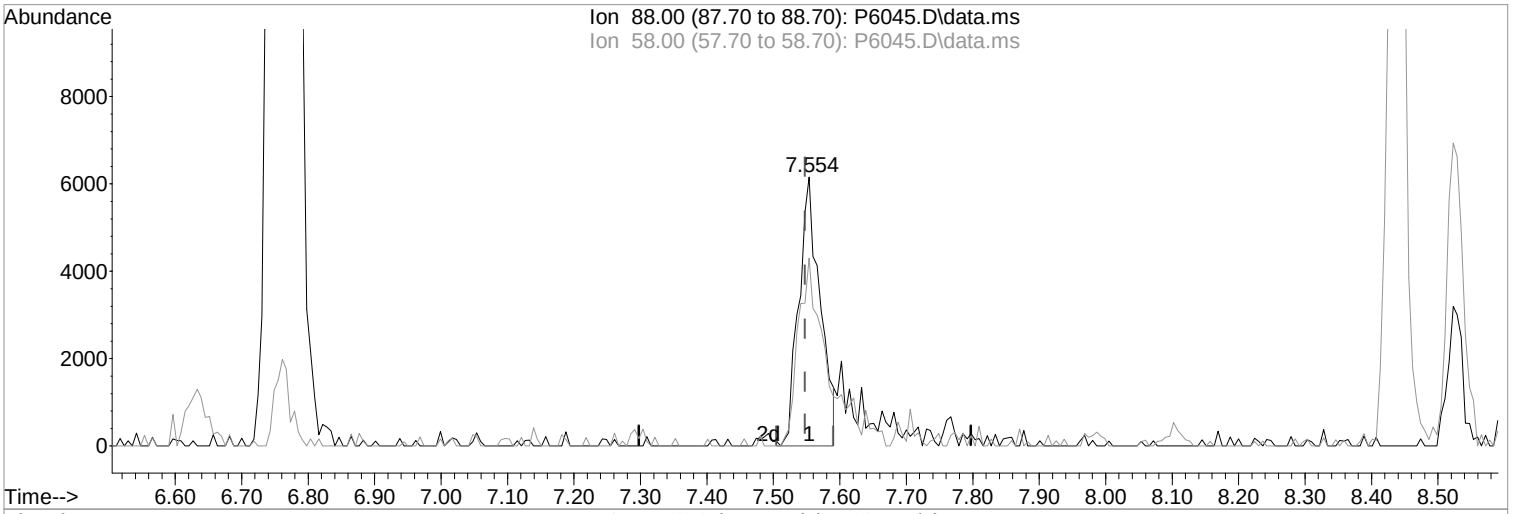
Split Peak

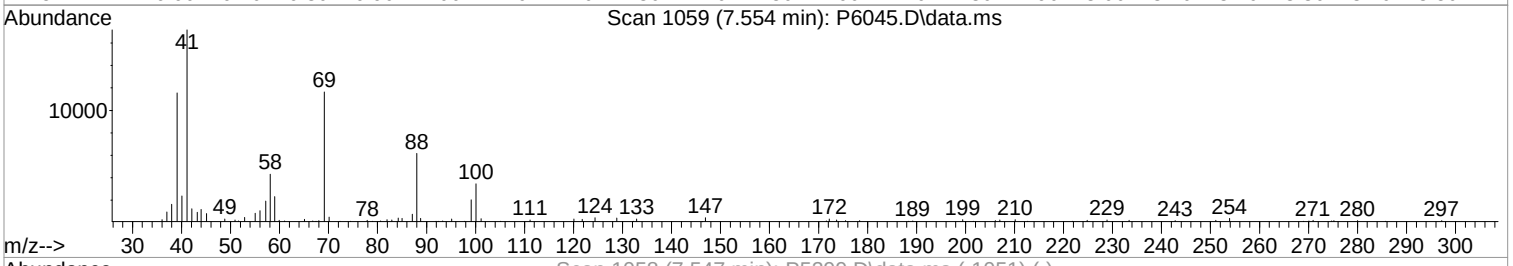
10/28/16

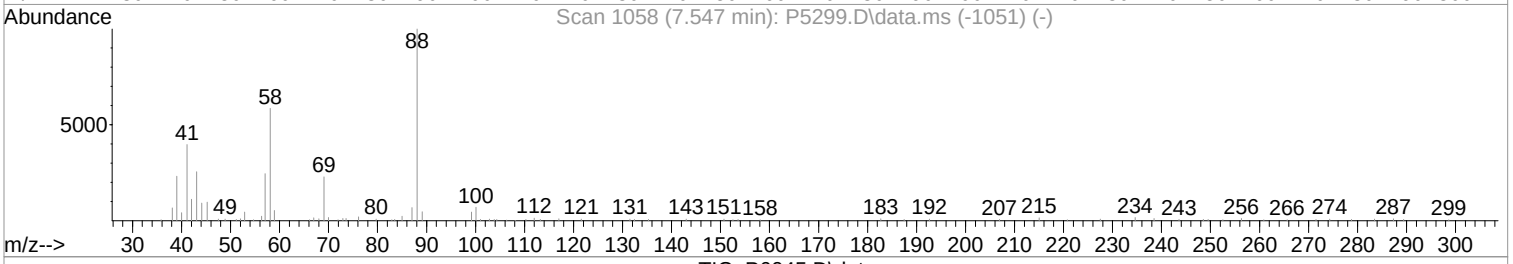
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6045.D
Acq On : 28 Oct 2016 10:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 28 10:59:40 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6045.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 269.87 ppb

response 13731

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	69.93
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6045.D
Acq On : 28 Oct 2016 10:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 28 11:01:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	787989	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1274496	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1169744	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	611995	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	375186	55.16	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.32%				
48) surr1,1,2-dichloroetha...	6.090	65	418449	54.15	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.30%				
65) SURR3,Toluene-d8	8.529	98	1586556	56.92	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.84%				
70) SURR2,BFB	11.047	95	569131	52.34	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.68%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	151230	17.68	ppb		96
3) Chloromethane	1.341	50	151779	20.79	ppb		99
4) Vinyl Chloride	1.427	62	123748	19.85	ppb		94
5) Bromomethane	1.683	94	48917	13.12	ppb		91
6) Chloroethane	1.762	64	61028	20.05	ppb		96
7) Freon 21	1.920	67	146038	17.69	ppb		96
8) Trichlorofluoromethane	1.969	101	119975	16.62	ppb		93
9) Diethyl Ether	2.225	59	60829	19.11	ppb		90
10) Freon 123a	2.231	67	92852	18.50	ppb		93
11) Freon 123	2.286	83	120892	18.55	ppb		97
12) Acrolein	2.335	56	27627	64.14	ppb		92
13) 1,1-Diclethene	2.426	96	113236	20.66	ppb		91
14) Freon 113	2.433	101	111273	19.15	ppb		82
15) Acetone	2.481	43	27606	21.48	ppb		96
16) 2-Propanol	2.640	45	112076	408.94	ppb		98
17) Iodomethane	2.567	142	57955	7.87	ppb		88
18) Carbon Disulfide	2.628	76	374386	21.70	ppb		99
19) Acetonitrile	2.756	40	19680	87.00	ppb	#	74
20) Allyl Chloride	2.786	76	64000	20.09	ppb	#	92
21) Methyl Acetate	2.823	43	70066	24.07	ppb		99
22) Methylene Chloride	2.920	84	124870	21.61	ppb		90
23) TBA	3.079	59	179156	410.56	ppb		90
24) Acrylonitrile	3.201	53	168958	113.18	ppb		98
25) Methyl-t-Butyl Ether	3.256	73	325110	21.10	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	125965	20.45	ppb		92
28) 1,1-Diclethane	3.780	63	220874	21.59	ppb		97
29) Vinyl Acetate	3.896	86	26701	29.05	ppb		100
30) DIPE	3.938	45	471203	23.39	ppb		98
31) 2-Chloro-1,3-Butadiene	3.914	53	201604	20.81	ppb		97
32) ETBE	4.518	59	399246	22.30	ppb		96
33) 2,2-Dichloropropane	4.694	77	187549	20.37	ppb		97
34) cis-1,2-Dichloroethene	4.713	96	140049	22.27	ppb		98
35) 2-Butanone	4.768	43	42360	23.96	ppb		92
36) Propionitrile	4.853	54	61741	117.52	ppb		87
37) Bromochloromethane	5.133	130	76899	21.41	ppb	#	80
38) Methacrylonitrile	5.152	67	40097	22.13	ppb	#	83
39) Tetrahydrofuran	5.231	42	28645	21.64	ppb		93
40) Chloroform	5.316	83	206007	20.69	ppb		98
41) 1,1,1-Trichloroethane	5.584	97	176315	19.19	ppb		91

1st 10/28/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6045.D
Acq On : 28 Oct 2016 10:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 28 11:01:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.401	73	368151	22.75	ppb		92
44) Cyclohexane	5.670	41	127294	18.64	ppb		98
46) Carbontetrachloride	5.853	121	47315	17.63	ppb		88
47) 1,1-Dichloropropene	5.865	75	170643	19.85	ppb		97
49) Benzene	6.164	78	485979	20.52	ppb		97
50) 1,2-Dichloroethane	6.200	62	156130	20.29	ppb		96
51) Iso-Butyl Alcohol	6.194	43	85424	412.67	ppb		92
52) n-Heptane	6.639	43	163429	19.30	ppb		91
53) 1-Butanol	7.109	56	129078	1051.89	ppb		99
54) Trichloroethene	7.078	130	131134	19.49	ppb		90
55) Methylcyclohexane	7.304	55	164309	19.52	ppb		97
56) 1,2-Diclpropane	7.346	63	131307	20.89	ppb		96
57) Dibromomethane	7.486	93	66199	19.76	ppb		97
58) 1,4-Dioxane	7.554	88	18776m	369.02	ppb		
59) Methyl Methacrylate	7.572	69	76826	22.21	ppb		96
60) Bromodichloromethane	7.706	83	154959	19.05	ppb		98
61) 2-Nitropropane	7.980	41	33972	27.78	ppb	#	78
62) 2-Chloroethylvinyl Ether	8.102	63	76635	28.53	ppb		94
63) cis-1,3-Dichloropropene	8.236	75	213694	20.96	ppb		95
64) 4-Methyl-2-pentanone	8.438	43	101517	24.12	ppb		100
66) Toluene	8.602	91	544360	20.68	ppb		96
67) trans-1,3-Dichloropropene	8.858	75	176925	19.36	ppb		96
68) Ethyl Methacrylate	8.998	69	146546	20.71	ppb		98
69) 1,1,2-Trichloroethane	9.041	97	97340	21.23	ppb		93
72) Tetrachloroethene	9.181	164	98911	18.83	ppb		94
73) 2-Hexanone	9.328	43	67035	23.10	ppb		98
74) 1,3-Dichloropropane	9.212	76	179405	21.61	ppb		92
75) Dibromochloromethane	9.431	129	104282	19.14	ppb		97
76) N-Butyl Acetate	9.480	43	170328	20.90	ppb		99
77) 1,2-Dibromoethane	9.529	107	99098	21.81	ppb		97
78) Chlorobenzene	10.016	112	349462	20.11	ppb		97
79) 3-CBTF	10.029	180	174899	18.20	ppb		95
80) 4-CBTF	10.084	180	161808	18.62	ppb		99
81) 1,1,1,2-Tetrachloroethane	10.096	131	115922	18.70	ppb		95
82) Ethylbenzene	10.132	106	198479	20.95	ppb	#	89
83) (m+p)Xylene	10.242	106	481929	42.15	ppb		95
84) o-Xylene	10.596	106	233929	19.99	ppb		96
85) Styrene	10.608	104	388534	20.30	ppb		98
87) Bromoform	10.754	173	55893	19.52	ppb		89
88) 2-CBTF	10.833	180	165100	18.20	ppb		96
89) Isopropylbenzene	10.925	105	605473	21.95	ppb		97
90) Cyclohexanone	10.986	55	228708	856.71	ppb		98
91) trans-1,4-Dichloro-2-B...	11.230	53	25285	16.70	ppb		96
92) 1,1,2,2-Tetrachloroethane	11.181	83	122416	24.22	ppb		95
93) Bromobenzene	11.169	156	144605	19.76	ppb		91
94) 1,2,3-Trichloropropane	11.211	110	35786	22.23	ppb	#	85
95) n-Propylbenzene	11.278	91	713216	22.18	ppb		96
96) 2-Chlorotoluene	11.339	91	411333	21.63	ppb		97
97) 3-Chlorotoluene	11.394	91	428430	21.87	ppb		97
98) 4-Chlorotoluene	11.431	91	470433	20.95	ppb		99
99) 1,3,5-Trimethylbenzene	11.425	105	499095	21.56	ppb		97
100) tert-Butylbenzene	11.699	119	425596	20.70	ppb		98
101) 1,2,4-Trimethylbenzene	11.736	105	512162	21.22	ppb		97
102) 3,4-DCBTF	11.797	214	123248	17.48	ppb		98
103) sec-Butylbenzene	11.882	105	616587	21.23	ppb		98
104) p-Isopropyltoluene	11.998	119	520444	20.55	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6045.D
Acq On : 28 Oct 2016 10:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 28 11:01:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

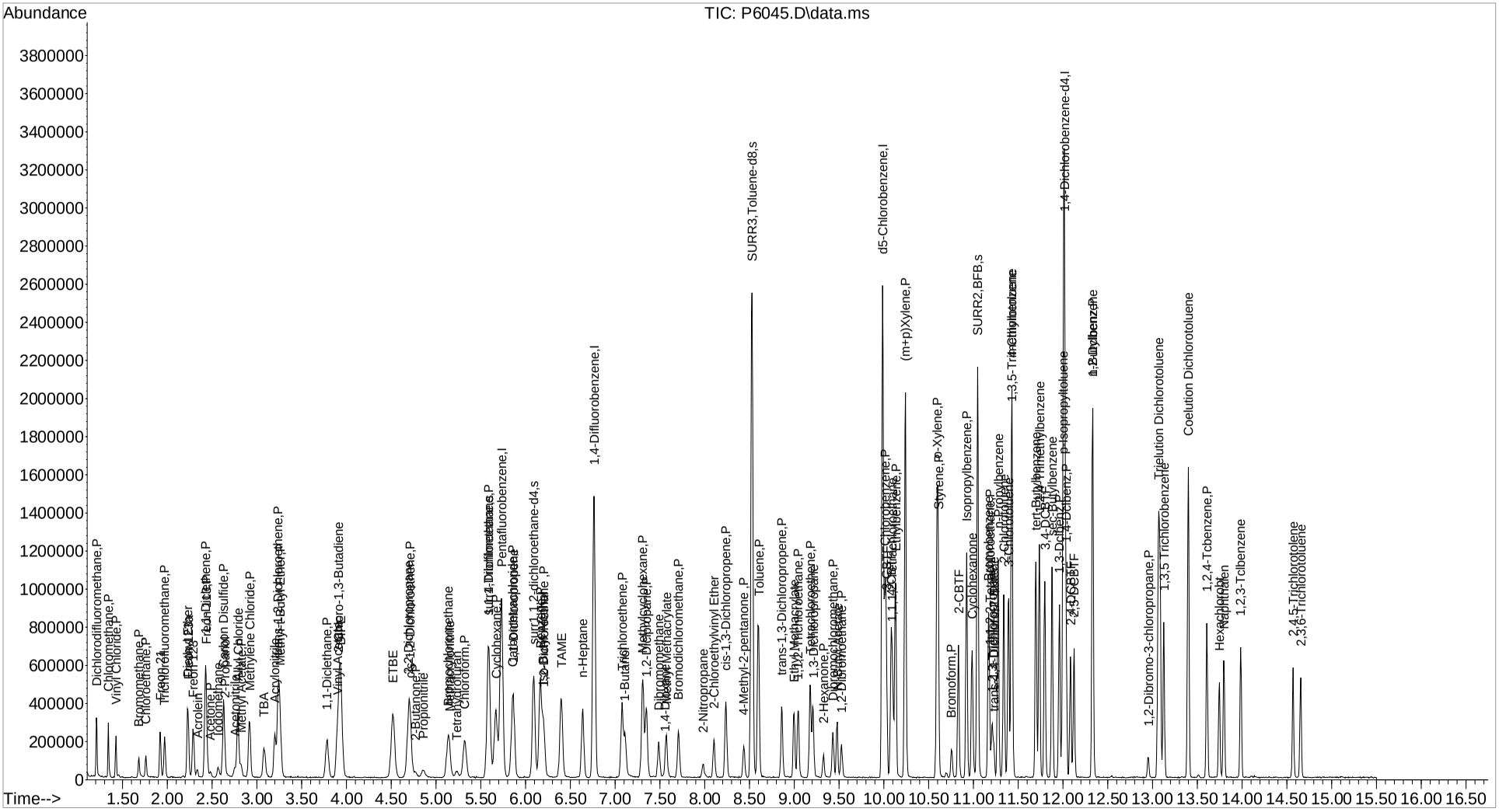
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	281801	20.03	ppb	97
106) 1,4-Dclbenz	12.034	146	284030	19.96	ppb	99
107) 2,4-DCBTF	12.083	214	116006	17.75	ppb	96
108) 2,5-DCBTF	12.126	214	126804	17.05	ppb	95
109) n-Butylbenzene	12.333	91	473108	21.13	ppb	96
110) 1,2-Dclbenz	12.333	146	271641	20.74	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	20020	18.24	ppb	98
112) Trielution Dichlorotol...	13.071	125	704182	59.07	ppb	98
113) 1,3,5 Trichlorobenzene	13.126	180	189521	18.16	ppb	96
114) Coelution Dichlorotoluene	13.400	125	521304	40.47	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	184255	19.44	ppb	98
116) Hexachlorobt	13.747	225	72483	18.11	ppb	93
117) Naphthalen	13.796	128	355317	21.64	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	158394	19.40	ppb	97
119) 2,4,5-Trichlorotolene	14.570	159	111429	19.40	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	97610	18.37	ppb	91

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6045.D
Acq On : 28 Oct 2016 10:43 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

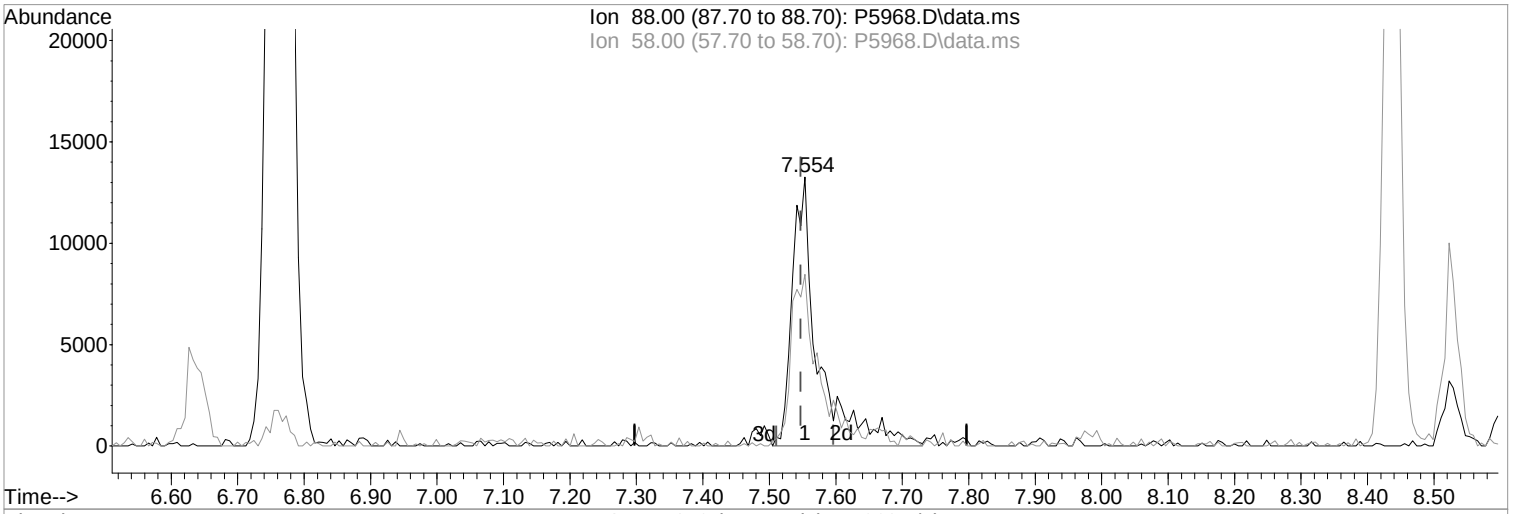
Quant Time: Oct 28 11:01:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

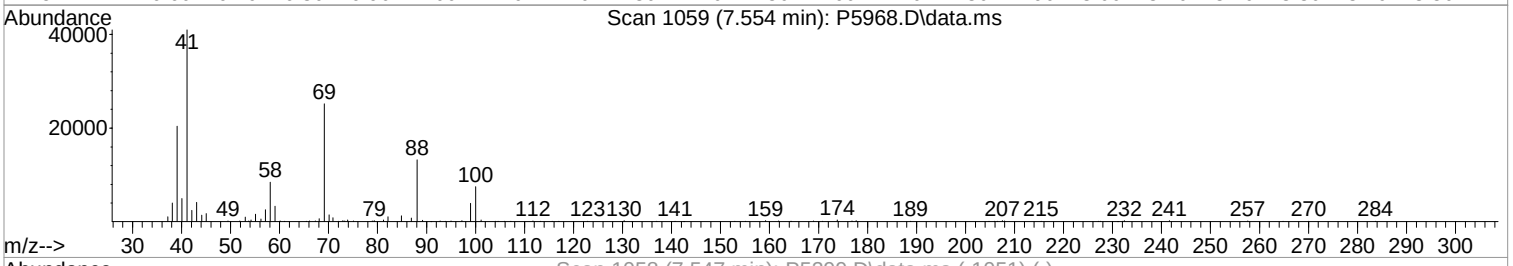


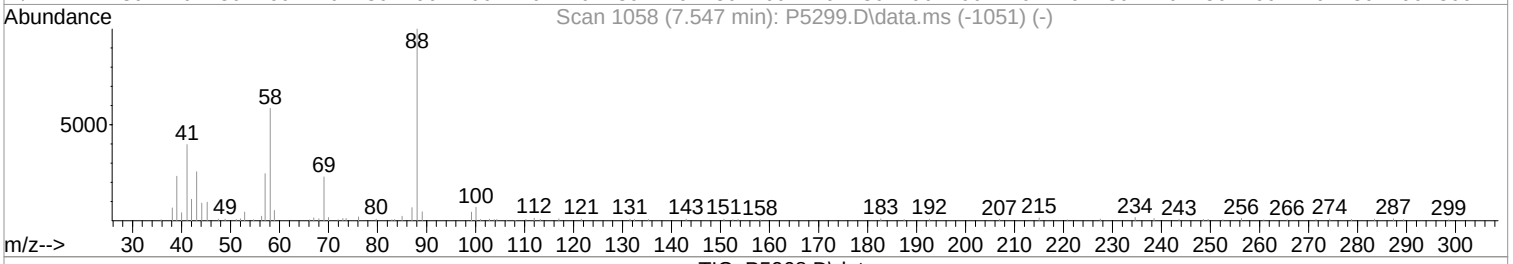
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5968.D
Acq On : 26 Oct 2016 5:54 pm
Operator : K.Ruest
Sample : R1611185-001MS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 09:00:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5968.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 708.23 ppb m

response 36425

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	63.85
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

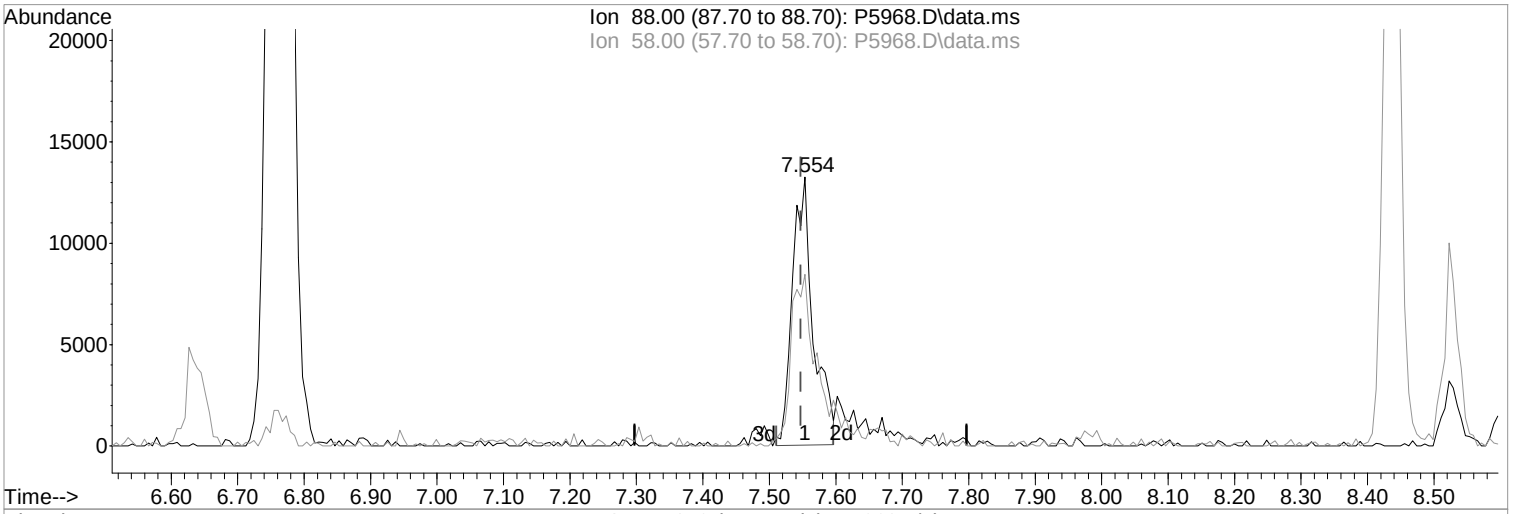
Poor integration.

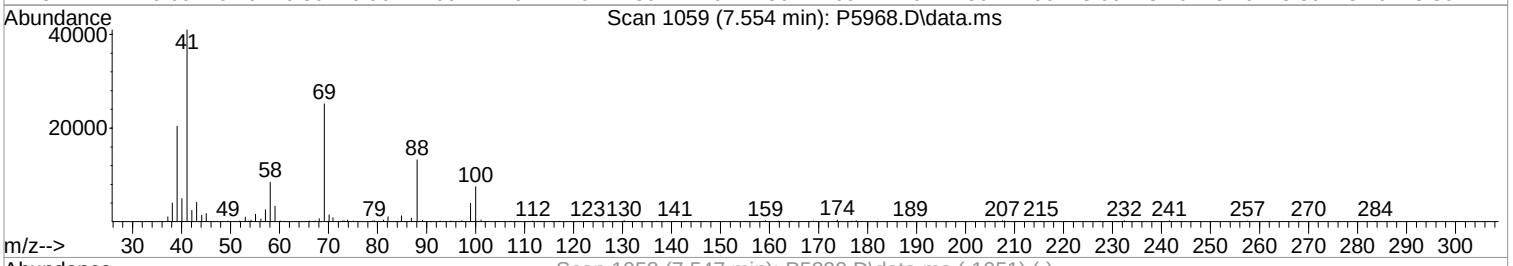
10/27/16

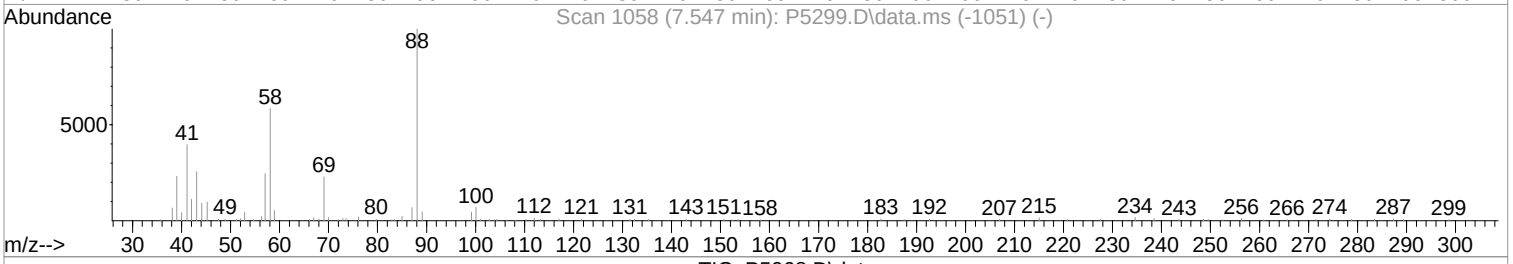
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5968.D
Acq On : 26 Oct 2016 5:54 pm
Operator : K.Ruest
Sample : R1611185-001MS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 09:00:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5968.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 560.23 ppb

response 28813

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	63.85
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5968.D
Acq On : 26 Oct 2016 5:54 pm
Operator : K.Ruest
Sample : R1611185-001MS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 11:25:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	797761	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1288289	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1207752	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	625994	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	384258	55.89	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 111.78%				
48) surr1,1,2-dichloroetha...	6.090	65	416961	53.38	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.76%				
65) SURR3,Toluene-d8	8.529	98	1630109	57.86	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 115.72%				
70) SURR2,BFB	11.047	95	601714	54.74	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	412795	47.66	ppb		96
3) Chloromethane	1.341	50	381119	51.56	ppb		97
4) Vinyl Chloride	1.427	62	861004	136.42	ppb		97
5) Bromomethane	1.683	94	34846	9.10	ppb		85
6) Chloroethane	1.762	64	167676	55.23	ppb		90
7) Freon 21	1.921	67	328751	39.34	ppb		95
8) Trichlorofluoromethane	1.969	101	341318	46.72	ppb		98
9) Diethyl Ether	2.225	59	142309	44.16	ppb		94
10) Freon 123a	2.231	67	225444	44.36	ppb		91
11) Freon 123	2.286	83	260519	39.48	ppb		92
12) Acrolein	2.335	56	40741	93.43	ppb		90
13) 1,1-Diclethene	2.426	96	293656	52.92	ppb		91
14) Freon 113	2.433	101	448573	76.26	ppb		95
15) Acetone	2.481	43	43970	33.80	ppb		91
16) 2-Propanol	2.634	45	180224	649.54	ppb		95
17) Iodomethane	2.567	142	161247	21.63	ppb		93
18) Carbon Disulfide	2.628	76	558151	31.96	ppb		98
19) Acetonitrile	2.750	40	49348	215.47	ppb		96
20) Allyl Chloride	2.786	76	105403	32.68	ppb		96
21) Methyl Acetate	2.823	43	114957	39.00	ppb		95
22) Methylene Chloride	2.920	84	302985	51.79	ppb		94
23) TBA	3.079	59	337046	762.92	ppb		95
24) Acrylonitrile	3.201	53	332738	220.15	ppb		96
25) Methyl-t-Butyl Ether	3.256	73	689168	44.18	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	322736	51.74	ppb		94
28) 1,1-Diclethane	3.780	63	607557	58.66	ppb		95
29) Vinyl Acetate	3.896	86	48252	51.86	ppb	#	95
30) DIPE	3.932	45	954958	46.82	ppb		98
31) 2-Chloro-1,3-Butadiene	3.914	53	461187	47.02	ppb		98
32) ETBE	4.518	59	813746	44.90	ppb		97
33) 2,2-Dichloropropane	4.700	77	453284	48.62	ppb		86
34) cis-1,2-Dichloroethene	4.707	96	1145440	179.93	ppb		100
35) 2-Butanone	4.761	43	71793	40.12	ppb		99
36) Propionitrile	4.853	54	123161	231.57	ppb		99
37) Bromochloromethane	5.133	130	178723	49.16	ppb		93
38) Methacrylonitrile	5.139	67	74796	40.77	ppb		88
39) Tetrahydrofuran	5.231	42	52736	39.36	ppb		98
40) Chloroform	5.322	83	517053	51.29	ppb		99
41) 1,1,1-Trichloroethane	5.584	97	527907	56.76	ppb		97

1st 10/27/16
2nd 10/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5968.D
Acq On : 26 Oct 2016 5:54 pm
Operator : K.Ruest
Sample : R1611185-001MS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 11:25:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	707097	43.15	ppb	96
44) Cyclohexane	5.670	41	243104	35.21	ppb	93
46) Carbontetrachloride	5.853	121	104131	38.39	ppb	100
47) 1,1-Dichloropropene	5.865	75	430971	49.60	ppb	94
49) Benzene	6.164	78	1237907	51.70	ppb	98
50) 1,2-Dichloroethane	6.206	62	368447	47.37	ppb	94
51) Iso-Butyl Alcohol	6.188	43	150753	720.46	ppb	99
52) n-Heptane	6.639	43	376248	43.96	ppb	95
53) 1-Butanol	7.115	56	212316	1711.70	ppb	98
54) Trichloroethene	7.078	130	359118	52.79	ppb	95
55) Methylcyclohexane	7.310	55	308414	36.25	ppb	94
56) 1,2-Diclpropane	7.346	63	322980	50.84	ppb	99
57) Dibromomethane	7.486	93	148806	43.94	ppb	94
58) 1,4-Dioxane	7.554	88	36425m	708.23	ppb	
59) Methyl Methacrylate	7.572	69	154246	44.11	ppb	99
60) Bromodichloromethane	7.706	83	345134	41.97	ppb	97
61) 2-Nitropropane	7.980	41	75770	61.30	ppb	95
63) cis-1,3-Dichloropropene	8.236	75	390872	37.93	ppb	97
64) 4-Methyl-2-pentanone	8.438	43	181483	42.66	ppb	100
66) Toluene	8.602	91	1367521	51.40	ppb	96
67) trans-1,3-Dichloropropene	8.858	75	315089	34.11	ppb	96
68) Ethyl Methacrylate	8.998	69	321013	44.87	ppb	100
69) 1,1,2-Trichloroethane	9.041	97	226540	48.89	ppb	94
72) Tetrachloroethene	9.175	164	251820	46.44	ppb	97
73) 2-Hexanone	9.328	43	120299	40.15	ppb	88
74) 1,3-Dichloropropane	9.212	76	401183	46.80	ppb	92
75) Dibromochloromethane	9.431	129	207720	36.93	ppb	98
76) N-Butyl Acetate	9.480	43	291603	34.65	ppb	99
77) 1,2-Dibromoethane	9.529	107	216860	46.23	ppb	95
78) Chlorobenzene	10.010	112	880599	49.07	ppb	97
79) 3-CBTF	10.029	180	414920	41.82	ppb	96
80) 4-CBTF	10.084	180	380828	42.45	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	290570	45.41	ppb	95
82) Ethylbenzene	10.132	106	496125	50.72	ppb	99
83) (m+p)Xylene	10.242	106	1205273	102.09	ppb	96
84) o-Xylene	10.596	106	601702	49.81	ppb	100
85) Styrene	10.608	104	934530	47.30	ppb	99
87) Bromoform	10.754	173	93908	32.06	ppb	99
88) 2-CBTF	10.833	180	420545	45.32	ppb	95
89) Isopropylbenzene	10.925	105	1512705	53.61	ppb	99
90) Cyclohexanone	10.986	55	117266	429.44	ppb	97
91) trans-1,4-Dichloro-2-B...	11.224	53	19423	12.54	ppb	89
92) 1,1,2,2-Tetrachloroethane	11.181	83	249585	48.28	ppb	99
93) Bromobenzene	11.169	156	362271	48.39	ppb	91
94) 1,2,3-Trichloropropane	11.205	110	70941	43.09	ppb	92
95) n-Propylbenzene	11.278	91	1789436	54.41	ppb	99
96) 2-Chlorotoluene	11.339	91	1049848	53.98	ppb	99
97) 3-Chlorotoluene	11.394	91	981303	48.96	ppb	98
98) 4-Chlorotoluene	11.431	91	1192982	51.93	ppb	98
99) 1,3,5-Trimethylbenzene	11.425	105	1227060	51.82	ppb	97
100) tert-Butylbenzene	11.699	119	1100000	52.31	ppb	98
101) 1,2,4-Trimethylbenzene	11.736	105	1263152	51.17	ppb	98
102) 3,4-DCBTF	11.797	214	289475	40.13	ppb	97
103) sec-Butylbenzene	11.882	105	1542672	51.93	ppb	98
104) p-Isopropyltoluene	11.998	119	1338320	51.67	ppb	96
105) 1,3-Dclbenz	11.961	146	709583	49.30	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5968.D
Acq On : 26 Oct 2016 5:54 pm
Operator : K.Ruest
Sample : R1611185-001MS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 11:25:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

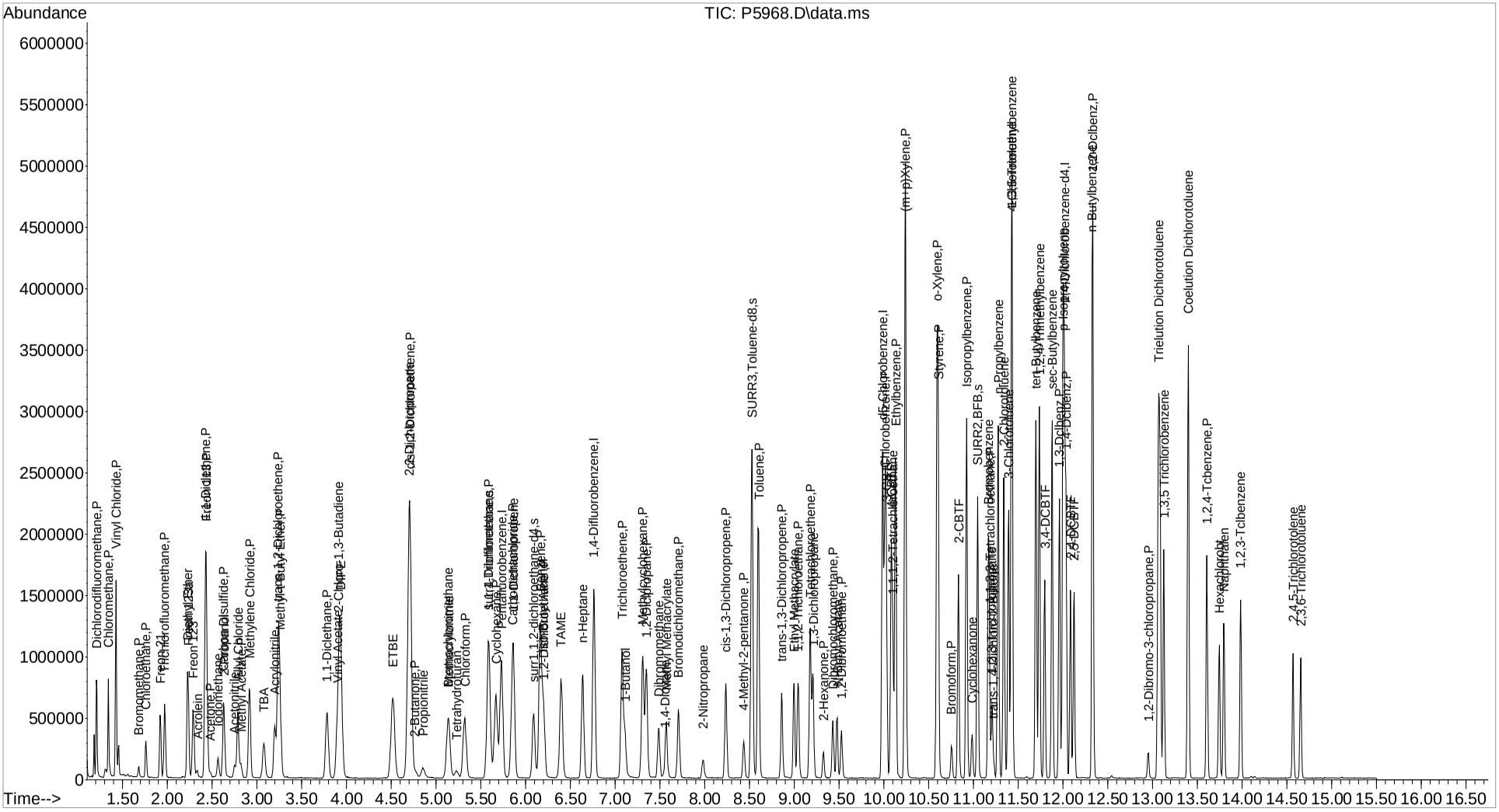
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	12.034	146	699799	48.08	ppb	96
107) 2,4-DCBTF	12.083	214	276441	41.36	ppb	100
108) 2,5-DCBTF	12.126	214	291607	38.34	ppb	96
109) n-Butylbenzene	12.327	91	1166443	50.94	ppb	95
110) 1,2-Dclbenz	12.333	146	641202	47.87	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	42939	38.26	ppb	96
112) Trielution Dichlorotol...	13.071	125	1608575	131.91	ppb	97
113) 1,3,5 Trichlorobenzene	13.126	180	429088	40.20	ppb	98
114) Coelution Dichlorotoluene	13.400	125	1120268	85.03	ppb	97
115) 1,2,4-Tcbenzene	13.607	180	416459	42.96	ppb	96
116) Hexachlorobt	13.747	225	153929	37.59	ppb	97
117) Naphthalen	13.796	128	742684	44.23	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	336917	40.33	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	209221	35.61	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	165754	30.49	ppb	93

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5968.D
Acq On : 26 Oct 2016 5:54 pm
Operator : K.Ruest
Sample : R1611185-001MS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 17 Sample Multiplier: 1

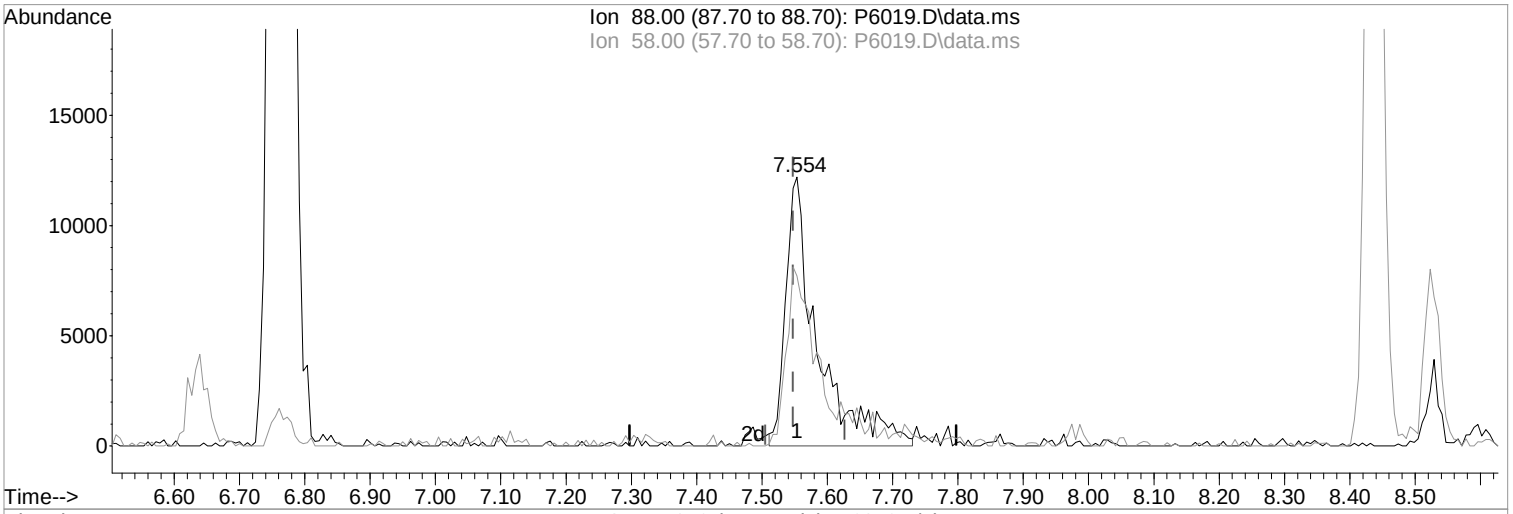
Quant Time: Oct 27 11:25:51 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6019.D
Acq On : 27 Oct 2016 8:53 pm
Operator : K.Ruest
Sample : R1611185-032MS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 08:42:52 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6019.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 815.84 ppb m

response 41260

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	63.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

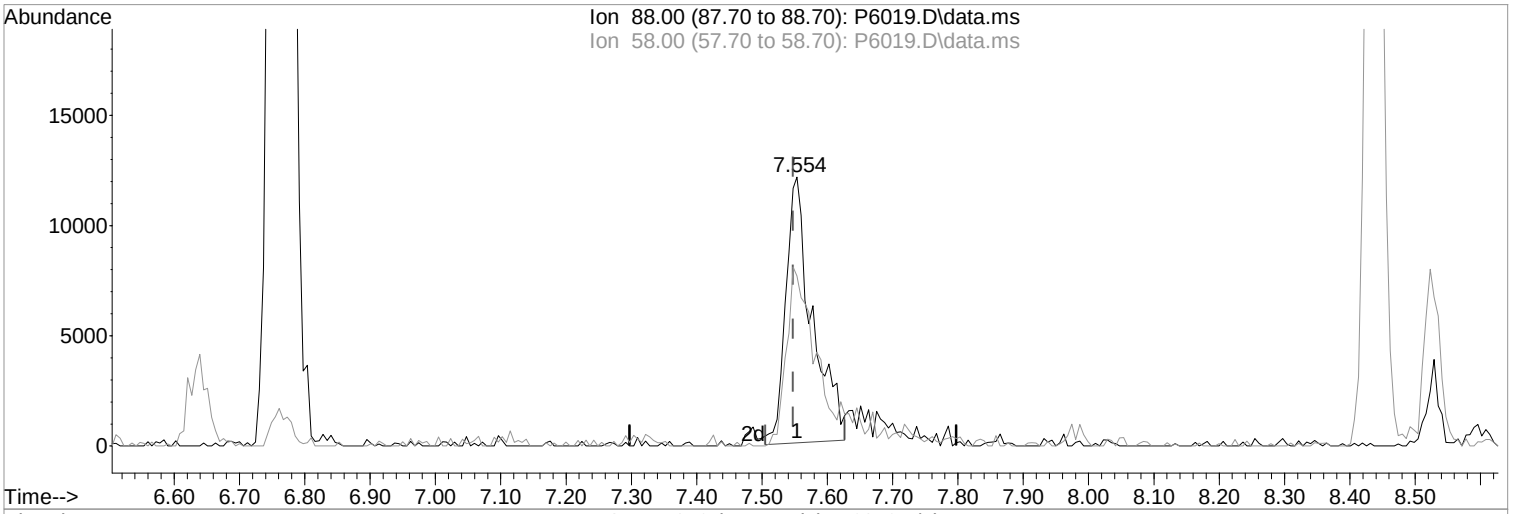
Poor integration.

10/28/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6019.D
Acq On : 27 Oct 2016 8:53 pm
Operator : K.Ruest
Sample : R1611185-032MS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 08:42:52 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P6019.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 671.65 ppb

response 33968

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	63.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6019.D
Acq On : 27 Oct 2016 8:53 pm
Operator : K.Ruest
Sample : R1611185-032MS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 14:05:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	786557	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1266820	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1191002	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	621046	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	378788	56.02	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 112.04%				
48) surr1,1,2-dichloroetha...	6.090	65	416503	54.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.46%				
65) SURR3,Toluene-d8	8.529	98	1603748	57.89	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 115.78%				
70) SURR2,BFB	11.047	95	586052	54.22	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	398688	46.69	ppb		97
3) Chloromethane	1.341	50	343439	47.12	ppb		98
4) Vinyl Chloride	1.427	62	479220	77.01	ppb		96
5) Bromomethane	1.683	94	45882	12.30	ppb		96
6) Chloroethane	1.762	64	156315	52.19	ppb		92
7) Freon 21	1.921	67	405104	49.17	ppb		98
8) Trichlorofluoromethane	1.969	101	328286	45.57	ppb		99
9) Diethyl Ether	2.225	59	150464	47.35	ppb		97
10) Freon 123a	2.231	67	248751	49.65	ppb		88
11) Freon 123	2.286	83	325294	49.99	ppb		95
12) Acrolein	2.335	56	47078	109.50	ppb		82
13) 1,1-Diclethene	2.426	96	303261	55.43	ppb		92
14) Freon 113	2.433	101	302165	52.10	ppb		95
15) Acetone	2.481	43	53645	41.82	ppb		91
16) 2-Propanol	2.640	45	253349	926.10	ppb		99
17) Iodomethane	2.567	142	109047	14.83	ppb		95
18) Carbon Disulfide	2.628	76	585526	34.01	ppb		99
19) Acetonitrile	2.750	40	53208	235.63	ppb	#	82
20) Allyl Chloride	2.786	76	97867	30.77	ppb		96
21) Methyl Acetate	2.823	43	156985	54.02	ppb		97
22) Methylene Chloride	2.920	84	313044	54.27	ppb		93
23) TBA	3.085	59	398725	915.39	ppb		96
24) Acrylonitrile	3.201	53	362733	243.42	ppb		98
25) Methyl-t-Butyl Ether	3.256	73	741092	48.19	ppb		98
26) trans-1,2-Dichloroethene	3.237	96	325975	53.01	ppb		95
28) 1,1-Diclethane	3.786	63	567510	55.58	ppb		98
29) Vinyl Acetate	3.896	86	60486	65.93	ppb		98
30) DIPE	3.938	45	1106112	55.01	ppb		98
31) 2-Chloro-1,3-Butadiene	3.920	53	502549	51.97	ppb		100
32) ETBE	4.518	59	962612	53.87	ppb		98
33) 2,2-Dichloropropane	4.694	77	413989	45.04	ppb		88
34) cis-1,2-Dichloroethene	4.707	96	1082439	172.46	ppb		99
35) 2-Butanone	4.774	43	90192	51.12	ppb		99
36) Propionitrile	4.847	54	133758	255.07	ppb		90
37) Bromochloromethane	5.139	130	180904	50.46	ppb		99
38) Methacrylonitrile	5.152	67	83862	46.36	ppb		95
39) Tetrahydrofuran	5.225	42	59735	45.22	ppb		83
40) Chloroform	5.322	83	519346	52.25	ppb		98
41) 1,1,1-Trichloroethane	5.591	97	460508	50.22	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6019.D
Acq On : 27 Oct 2016 8:53 pm
Operator : K.Ruest
Sample : R1611185-032MS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 14:05:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.401	73	850676	52.65	ppb		96
44) Cyclohexane	5.670	41	346028	50.97	ppb		95
46) Carbontetrachloride	5.853	121	104921	39.33	ppb		97
47) 1,1-Dichloropropene	5.865	75	442921	51.84	ppb		98
49) Benzene	6.164	78	1258388	53.45	ppb		97
50) 1,2-Dichloroethane	6.200	62	365843	47.83	ppb		98
51) Iso-Butyl Alcohol	6.200	43	178856	869.26	ppb		94
52) n-Heptane	6.639	43	351247	41.74	ppb		95
53) 1-Butanol	7.109	56	282838	2318.89	ppb		98
54) Trichloroethene	7.078	130	348818	52.15	ppb		97
55) Methylcyclohexane	7.310	55	427327	51.08	ppb		95
56) 1,2-Diclpropane	7.346	63	332683	53.26	ppb		95
57) Dibromomethane	7.486	93	151721	45.56	ppb		95
58) 1,4-Dioxane	7.554	88	41260m	815.84	ppb		
59) Methyl Methacrylate	7.572	69	165833	48.22	ppb		98
60) Bromodichloromethane	7.706	83	342737	42.39	ppb		99
61) 2-Nitropropane	7.980	41	80585	66.30	ppb		97
63) cis-1,3-Dichloropropene	8.236	75	372052	36.71	ppb		98
64) 4-Methyl-2-pentanone	8.438	43	217185	51.92	ppb		96
66) Toluene	8.602	91	1374238	52.52	ppb		99
67) trans-1,3-Dichloropropene	8.864	75	309008	34.01	ppb		95
68) Ethyl Methacrylate	8.998	69	344991	49.04	ppb		95
69) 1,1,2-Trichloroethane	9.047	97	228524	50.15	ppb		98
72) Tetrachloroethene	9.181	164	252615	47.24	ppb		94
73) 2-Hexanone	9.328	43	149418	50.57	ppb		93
74) 1,3-Dichloropropane	9.212	76	414703	49.05	ppb		98
75) Dibromochloromethane	9.431	129	206775	37.27	ppb		99
76) N-Butyl Acetate	9.480	43	387375	46.67	ppb		98
77) 1,2-Dibromoethane	9.529	107	225872	48.83	ppb		92
78) Chlorobenzene	10.016	112	869707	49.14	ppb		98
79) 3-CBTF	10.029	180	459249	46.94	ppb		94
80) 4-CBTF	10.084	180	425255	48.07	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.096	131	294277	46.63	ppb		96
82) Ethylbenzene	10.132	106	492986	51.11	ppb		98
83) (m+p)Xylene	10.242	106	1194143	102.57	ppb		98
84) o-Xylene	10.596	106	602317	50.56	ppb		99
85) Styrene	10.608	104	945825	48.54	ppb		98
87) Bromoform	10.760	173	99401	34.21	ppb		89
88) 2-CBTF	10.833	180	460409	50.01	ppb		96
89) Isopropylbenzene	10.925	105	1527213	54.56	ppb		97
90) Cyclohexanone	10.986	55	139675	515.58	ppb		91
91) trans-1,4-Dichloro-2-B...	11.230	53	24033	15.64	ppb		86
92) 1,1,2,2-Tetrachloroethane	11.181	83	275560	53.73	ppb		97
93) Bromobenzene	11.169	156	359718	48.43	ppb		92
94) 1,2,3-Trichloropropane	11.211	110	84299	51.61	ppb	#	87
95) n-Propylbenzene	11.278	91	1791164	54.89	ppb		99
96) 2-Chlorotoluene	11.339	91	1030476	53.41	ppb		99
97) 3-Chlorotoluene	11.394	91	1091152	54.88	ppb		99
98) 4-Chlorotoluene	11.431	91	1173328	51.48	ppb		99
99) 1,3,5-Trimethylbenzene	11.425	105	1213758	51.67	ppb		96
100) tert-Butylbenzene	11.699	119	1086978	52.11	ppb		99
101) 1,2,4-Trimethylbenzene	11.736	105	1233604	50.37	ppb		98
102) 3,4-DCBTF	11.797	214	313956	43.88	ppb		98
103) sec-Butylbenzene	11.882	105	1536078	52.12	ppb		99
104) p-Isopropyltoluene	11.998	119	1292045	50.28	ppb		98
105) 1,3-Dclbenz	11.961	146	703548	49.27	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6019.D
Acq On : 27 Oct 2016 8:53 pm
Operator : K.Ruest
Sample : R1611185-032MS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 14:05:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	12.034	146	703233	48.70	ppb		97
107) 2,4-DCBTF	12.083	214	291795	44.00	ppb		99
108) 2,5-DCBTF	12.126	214	318254	42.18	ppb		96
109) n-Butylbenzene	12.333	91	1137454	50.07	ppb		96
110) 1,2-Dclbenz	12.333	146	652829	49.12	ppb		95
111) 1,2-Dibromo-3-chloropr...	12.955	157	48520	43.57	ppb	#	81
112) Trielution Dichlorotol...	13.071	125	1731375	143.11	ppb		98
113) 1,3,5 Trichlorobenzene	13.126	180	455558	43.02	ppb		96
114) Coelution Dichlorotoluene	13.400	125	1231064	94.19	ppb		97
115) 1,2,4-Tcbenzene	13.607	180	411095	42.75	ppb		99
116) Hexachlorobt	13.747	225	147162	36.22	ppb		91
117) Naphthalen	13.796	128	792828	47.59	ppb		98
118) 1,2,3-Tclbenzene	13.985	180	338313	40.82	ppb		94
119) 2,4,5-Trichlorotolene	14.570	159	213213	36.58	ppb		94
120) 2,3,6-Trichlorotoluene	14.656	159	191510	35.51	ppb		94

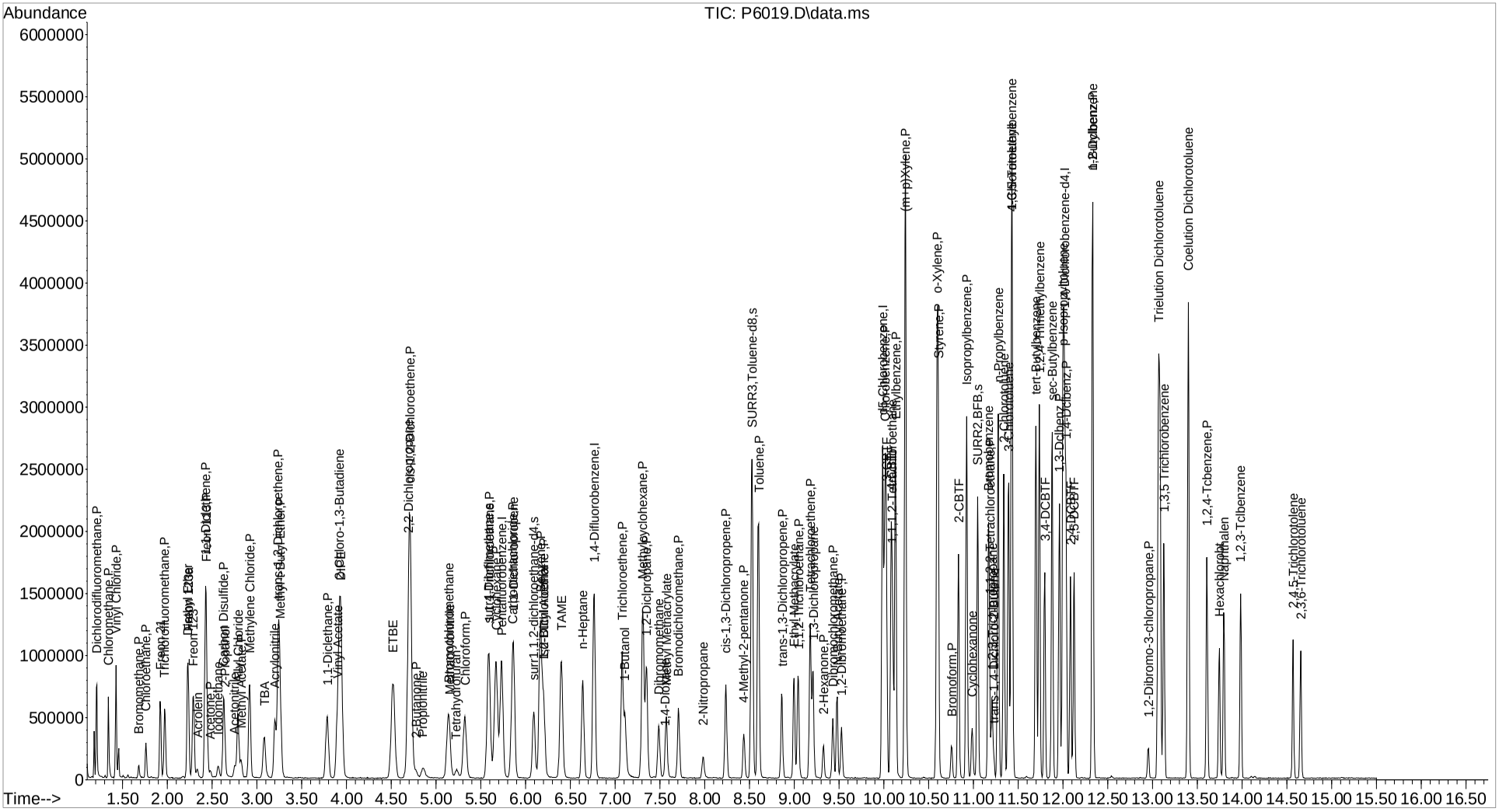
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/28/16
2nd 10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6019.D
Acq On : 27 Oct 2016 8:53 pm
Operator : K.Ruest
Sample : R1611185-032MS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 14:05:36 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6036.D
Acq On : 28 Oct 2016 5:24 am
Operator : K.Ruest
Sample : R1611185-027MS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Oct 28 09:10:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	779999	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1274832	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1167004	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	607254	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.591	113	377500	55.48	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.96%				
48) surr1,1,2-dichloroetha...	6.090	65	413108	53.45	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.90%				
65) SURR3,Toluene-d8	8.529	98	1577363	56.58	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.16%				
70) SURR2,BFB	11.047	95	571257	52.52	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	402427	47.52	ppb		97
3) Chloromethane	1.341	50	343154	47.48	ppb		98
4) Vinyl Chloride	1.427	62	334893	54.27	ppb		96
5) Bromomethane	1.683	94	75599	20.81	ppb		89
6) Chloroethane	1.762	64	162317	54.67	ppb		92
7) Freon 21	1.921	67	392597	48.05	ppb		96
8) Trichlorofluoromethane	1.969	101	322584	45.16	ppb		99
9) Diethyl Ether	2.225	59	145897	46.30	ppb		94
10) Freon 123a	2.231	67	237673	47.84	ppb		92
11) Freon 123	2.292	83	311967	48.35	ppb		98
12) Acrolein	2.335	56	50788	119.12	ppb		78
13) 1,1-Diclethene	2.427	96	297419	54.82	ppb		91
14) Freon 113	2.433	101	287060	49.92	ppb		96
15) Acetone	2.481	43	57189	44.96	ppb		93
16) 2-Propanol	2.640	45	245918	906.49	ppb		93
17) Iodomethane	2.567	142	115572	15.85	ppb		99
18) Carbon Disulfide	2.628	76	964214	56.47	ppb		99
19) Acetonitrile	2.756	40	62013	276.94	ppb		93
20) Allyl Chloride	2.786	76	160170	50.78	ppb	#	86
21) Methyl Acetate	2.823	43	152724	53.00	ppb		97
22) Methylene Chloride	2.920	84	314108	54.91	ppb		94
23) TBA	3.085	59	402180	931.09	ppb		84
24) Acrylonitrile	3.201	53	376568	254.83	ppb		96
25) Methyl-t-Butyl Ether	3.256	73	744655	48.83	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	328099	53.80	ppb		92
28) 1,1-Diclethane	3.786	63	574692	56.75	ppb		98
29) Vinyl Acetate	3.896	86	58130	63.89	ppb	#	95
30) DIPE	3.938	45	1115098	55.92	ppb		95
31) 2-Chloro-1,3-Butadiene	3.920	53	503734	52.53	ppb		99
32) ETBE	4.524	59	968084	54.63	ppb		99
33) 2,2-Dichloropropane	4.694	77	328287	36.02	ppb		90
34) cis-1,2-Dichloroethene	4.707	96	1055463	169.57	ppb		93
35) 2-Butanone	4.768	43	84356	48.21	ppb		99
36) Propionitrile	4.859	54	137323	264.07	ppb		99
37) Bromochloromethane	5.133	130	186801	52.55	ppb		96
38) Methacrylonitrile	5.139	67	87745	48.92	ppb		93
39) Tetrahydrofuran	5.237	42	65078	49.68	ppb		87
40) Chloroform	5.322	83	537248	54.50	ppb		98
41) 1,1,1-Trichloroethane	5.591	97	455246	50.06	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6036.D
Acq On : 28 Oct 2016 5:24 am
Operator : K.Ruest
Sample : R1611185-027MS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Oct 28 09:10:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	849393	53.01	ppb	98
44) Cyclohexane	5.670	41	334499	48.96	ppb	96
46) Carbontetrachloride	5.853	121	116118	43.26	ppb	98
47) 1,1-Dichloropropene	5.865	75	444919	51.74	ppb	99
49) Benzene	6.164	78	1253620	52.91	ppb	97
50) 1,2-Dichloroethane	6.206	62	369049	47.95	ppb	97
51) Iso-Butyl Alcohol	6.200	43	183821	887.77	ppb	97
52) n-Heptane	6.639	43	327109	38.62	ppb	94
53) 1-Butanol	7.115	56	270253	2201.79	ppb	99
54) Trichloroethene	7.078	130	1280138	190.18	ppb	96
55) Methylcyclohexane	7.304	55	420238	49.92	ppb	97
56) 1,2-Diclpropane	7.346	63	327384	52.08	ppb	100
57) Dibromomethane	7.487	93	159760	47.68	ppb	92
58) 1,4-Dioxane	7.554	88	44570	875.75	ppb	83
59) Methyl Methacrylate	7.572	69	169157	48.88	ppb	96
60) Bromodichloromethane	7.706	83	379978	46.70	ppb	97
61) 2-Nitropropane	7.980	41	78966	64.56	ppb	94
62) 2-Chloroethylvinyl Ether	8.102	63	76708	28.55	ppb	95
63) cis-1,3-Dichloropropene	8.236	75	489357	47.99	ppb	99
64) 4-Methyl-2-pentanone	8.438	43	224062	53.23	ppb	98
66) Toluene	8.602	91	1398516	53.12	ppb	97
67) trans-1,3-Dichloropropene	8.858	75	392799	42.97	ppb	92
68) Ethyl Methacrylate	8.998	69	361429	51.06	ppb	94
69) 1,1,2-Trichloroethane	9.041	97	236169	51.51	ppb	99
72) Tetrachloroethene	9.181	164	251616	48.02	ppb	96
73) 2-Hexanone	9.322	43	147478	50.94	ppb	95
74) 1,3-Dichloropropane	9.212	76	424171	51.21	ppb	95
75) Dibromochloromethane	9.431	129	257228	47.32	ppb	97
76) N-Butyl Acetate	9.480	43	393721	48.41	ppb	96
77) 1,2-Dibromoethane	9.529	107	230496	50.85	ppb	100
78) Chlorobenzene	10.010	112	881567	50.84	ppb	96
79) 3-CBTF	10.029	180	458227	47.80	ppb	98
80) 4-CBTF	10.084	180	409829	47.28	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.096	131	306578	49.58	ppb	97
82) Ethylbenzene	10.132	106	498802	52.78	ppb	99
83) (m+p)Xylene	10.242	106	1218602	106.83	ppb	98
84) o-Xylene	10.596	106	605378	51.86	ppb	98
85) Styrene	10.608	104	997767	52.26	ppb	99
87) Bromoform	10.754	173	134677	47.40	ppb	98
88) 2-CBTF	10.833	180	463024	51.44	ppb	98
89) Isopropylbenzene	10.925	105	1535327	56.09	ppb	97
90) Cyclohexanone	10.986	55	143644	542.28	ppb	92
91) trans-1,4-Dichloro-2-B...	11.230	53	51786	34.47	ppb	89
92) 1,1,2,2-Tetrachloroethane	11.181	83	278242	55.48	ppb	96
93) Bromobenzene	11.169	156	363859	50.10	ppb	92
94) 1,2,3-Trichloropropane	11.211	110	83196	52.09	ppb	95
95) n-Propylbenzene	11.278	91	1798335	56.37	ppb	98
96) 2-Chlorotoluene	11.339	91	1029092	54.55	ppb	97
97) 3-Chlorotoluene	11.394	91	1108800	57.03	ppb	99
98) 4-Chlorotoluene	11.431	91	1183299	53.10	ppb	97
99) 1,3,5-Trimethylbenzene	11.431	105	1248963	54.37	ppb	98
100) tert-Butylbenzene	11.699	119	1103183	54.08	ppb	98
101) 1,2,4-Trimethylbenzene	11.736	105	1293035	54.00	ppb	100
102) 3,4-DCBTF	11.797	214	312963	44.73	ppb	97
103) sec-Butylbenzene	11.882	105	1561943	54.20	ppb	97
104) p-Isopropyltoluene	11.998	119	1319266	52.51	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6036.D
Acq On : 28 Oct 2016 5:24 am
Operator : K.Ruest
Sample : R1611185-027MS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Oct 28 09:10:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	707413	50.66	ppb	96
106) 1,4-Dclbenz	12.034	146	694674	49.20	ppb	97
107) 2,4-DCBTF	12.083	214	284037	43.80	ppb	97
108) 2,5-DCBTF	12.126	214	316205	42.86	ppb	98
109) n-Butylbenzene	12.333	91	1141702	51.40	ppb	97
110) 1,2-Dclbenz	12.333	146	662367	50.97	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	50988	46.83	ppb	90
112) Trielution Dichlorotol...	13.071	125	1763342	149.06	ppb	97
113) 1,3,5 Trichlorobenzene	13.126	180	467277	45.12	ppb	98
114) Coelution Dichlorotoluene	13.400	125	1259306	98.54	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	423346	45.02	ppb	99
116) Hexachlorobt	13.747	225	150337	37.85	ppb	96
117) Naphthalen	13.796	128	810146	49.74	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	352260	43.47	ppb	97
119) 2,4,5-Trichlorotolene	14.570	159	218261	38.29	ppb	95
120) 2,3,6-Trichlorotoluene	14.656	159	190043	36.04	ppb	97

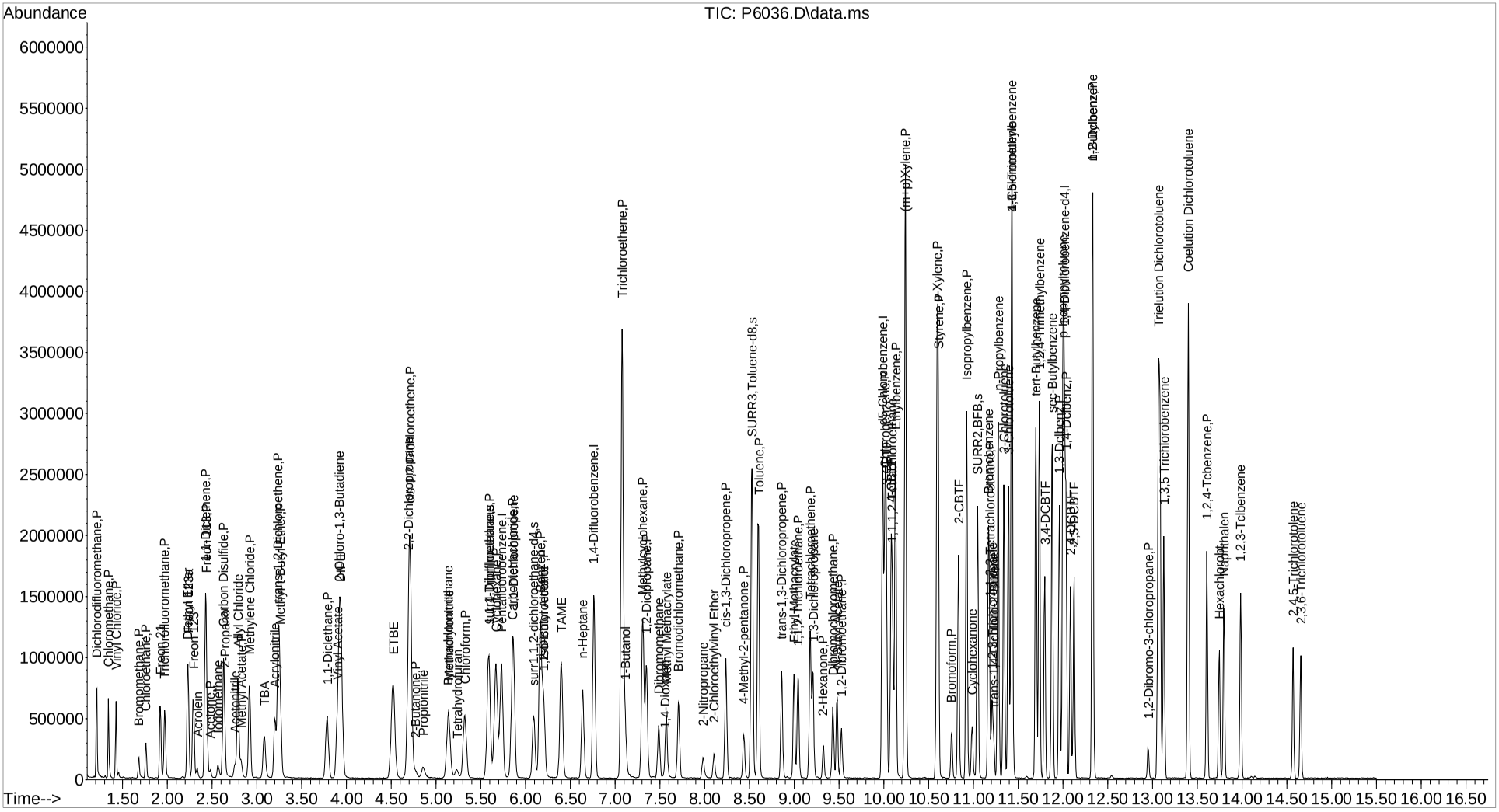
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/31/16 2nd 10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6036.D
Acq On : 28 Oct 2016 5:24 am
Operator : K.Ruest
Sample : R1611185-027MS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Oct 28 09:10:33 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

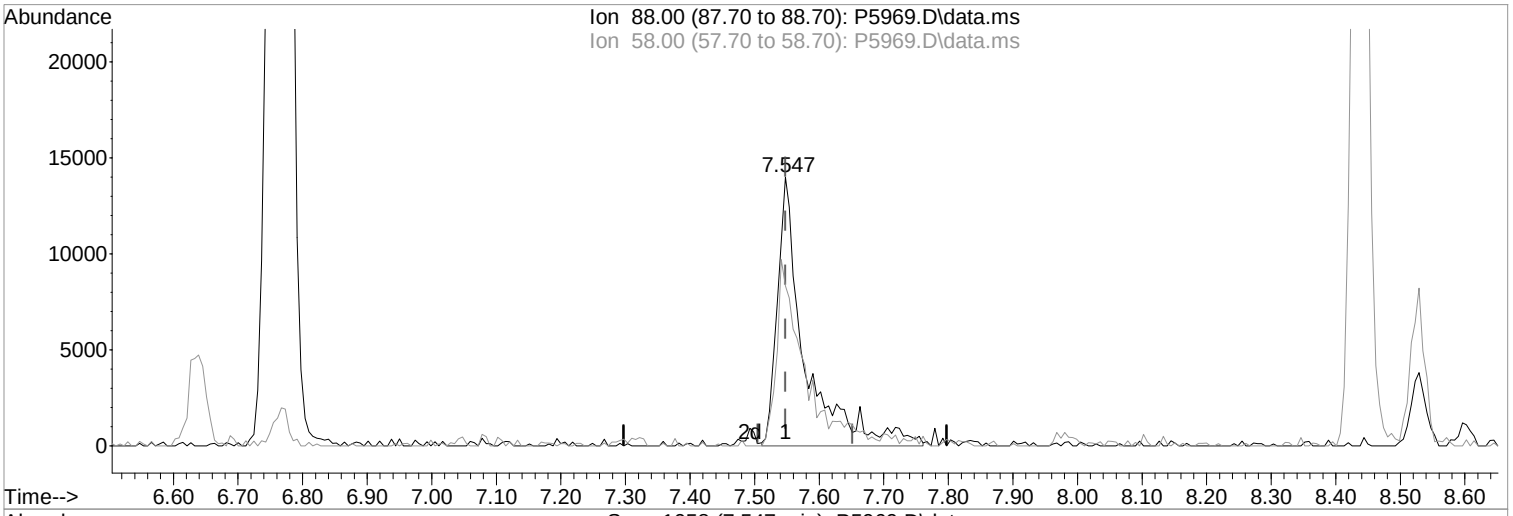


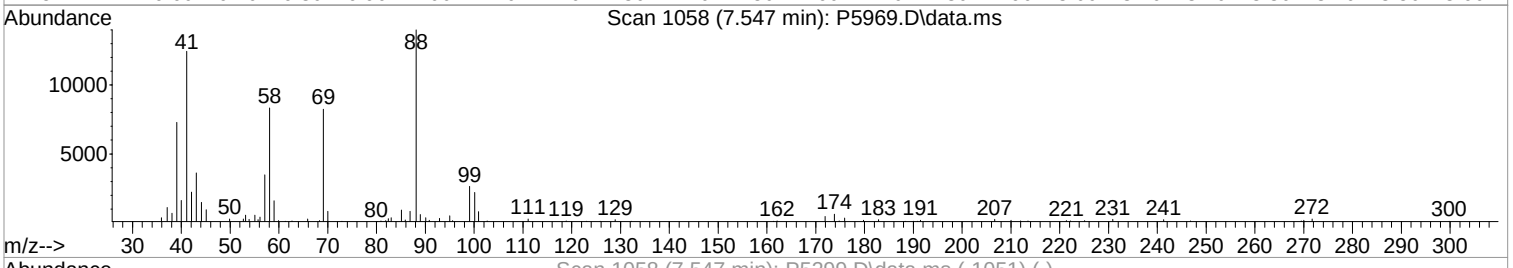
1st 10/27/16
2nd 10/27/16

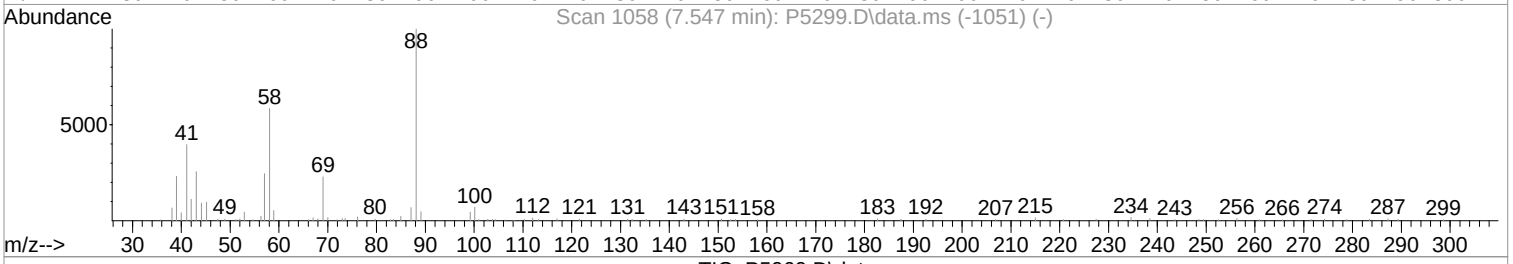
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5969.D
Acq On : 26 Oct 2016 6:24 pm
Operator : K.Ruest
Sample : R1611185-001DMS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 09:01:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5969.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 809.46 ppb m

response 41959

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	59.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

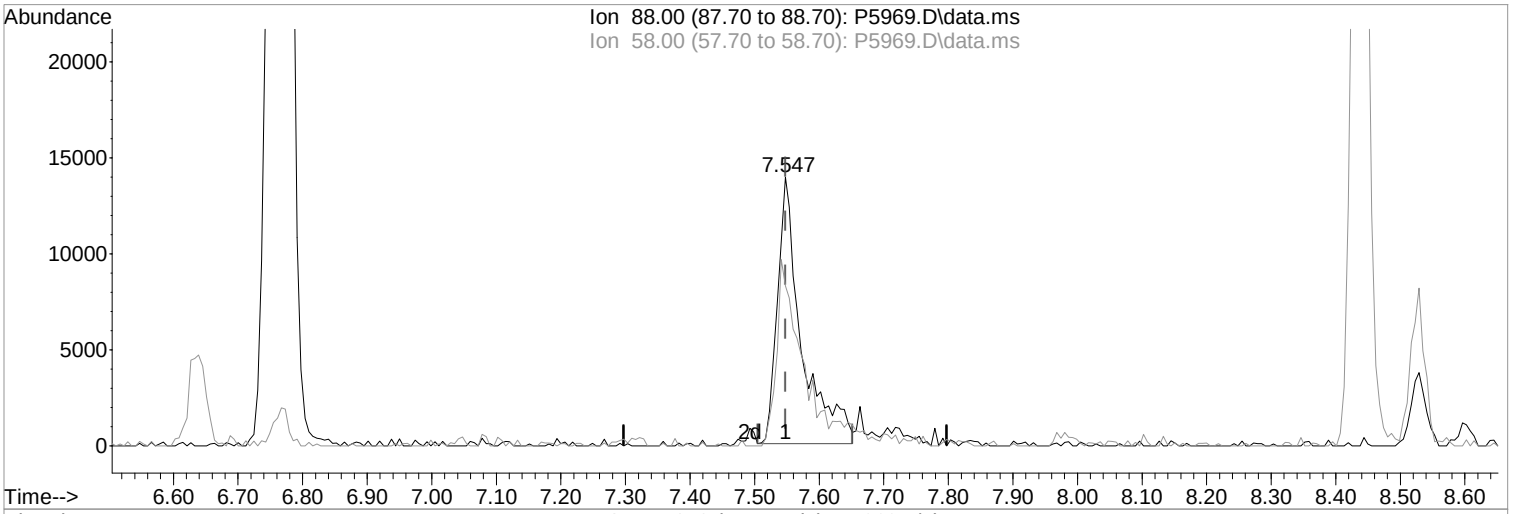
Poor integration.

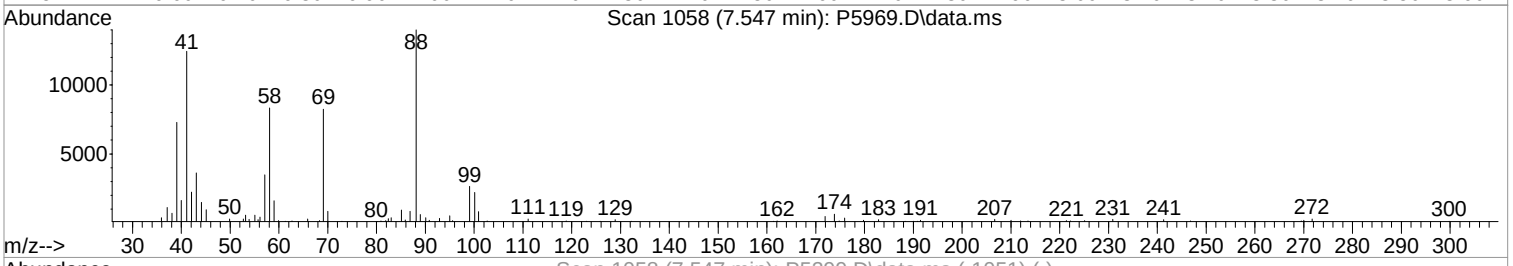
10/27/16

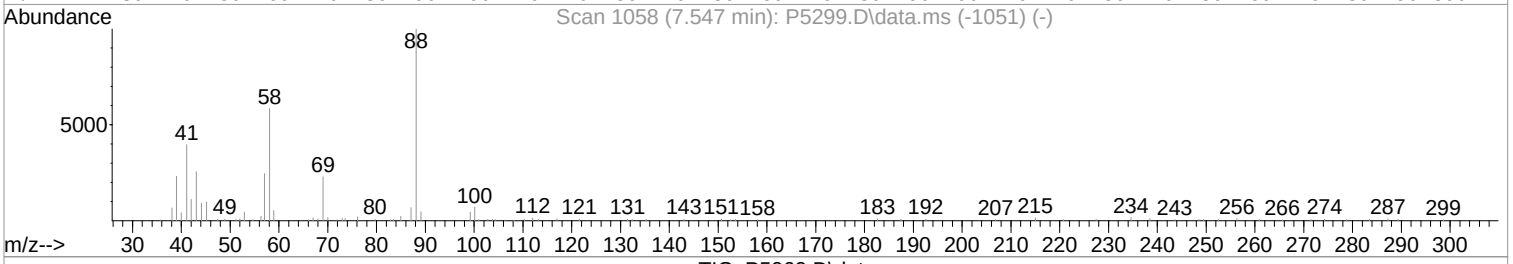
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5969.D
Acq On : 26 Oct 2016 6:24 pm
Operator : K.Ruest
Sample : R1611185-001DMS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 09:01:03 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5969.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 701.12 ppb

response 36343

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	59.50
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5969.D
Acq On : 26 Oct 2016 6:24 pm
Operator : K.Ruest
Sample : R1611185-001DMS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 11:31:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	803196	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1298439	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1207186	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	627528	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	382790	55.24	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.48%				
48) surr1,1,2-dichloroetha...	6.090	65	413375	52.51	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.02%				
65) SURR3,Toluene-d8	8.529	98	1630133	57.40	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.80%				
70) SURR2,BFB	11.047	95	602046	54.34	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.68%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	407624	46.75	ppb		96
3) Chloromethane	1.341	50	354132	47.58	ppb		96
4) Vinyl Chloride	1.427	62	850786	133.89	ppb		98
5) Bromomethane	1.683	94	53846	14.21	ppb		97
6) Chloroethane	1.762	64	153907	50.31	ppb		89
7) Freon 21	1.920	67	348700	41.44	ppb		95
8) Trichlorofluoromethane	1.969	101	334324	45.45	ppb		99
9) Diethyl Ether	2.225	59	147156	45.35	ppb		97
10) Freon 123a	2.231	67	234530	45.84	ppb		91
11) Freon 123	2.292	83	276269	41.58	ppb		95
12) Acrolein	2.335	56	50141	114.20	ppb		91
13) 1,1-Diclethene	2.426	96	288878	51.71	ppb		93
14) Freon 113	2.433	101	446431	75.39	ppb		90
15) Acetone	2.481	43	53979	41.21	ppb		92
16) 2-Propanol	2.640	45	233479	835.78	ppb		99
17) Iodomethane	2.567	142	241067	32.11	ppb		96
18) Carbon Disulfide	2.628	76	587854	33.44	ppb		98
19) Acetonitrile	2.750	40	52217	226.45	ppb		84
20) Allyl Chloride	2.786	76	108188	33.31	ppb	#	90
21) Methyl Acetate	2.823	43	133246	44.90	ppb		96
22) Methylene Chloride	2.920	84	306046	51.96	ppb		96
23) TBA	3.085	59	401373	902.38	ppb		96
24) Acrylonitrile	3.201	53	361188	237.36	ppb		92
25) Methyl-t-Butyl Ether	3.256	73	743893	47.37	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	324329	51.65	ppb		94
28) 1,1-Diclethane	3.786	63	610096	58.51	ppb		99
29) Vinyl Acetate	3.896	86	57457	61.33	ppb		98
30) DIPE	3.938	45	965153	47.00	ppb		99
31) 2-Chloro-1,3-Butadiene	3.920	53	477872	48.39	ppb		97
32) ETBE	4.518	59	819328	44.90	ppb		98
33) 2,2-Dichloropropane	4.700	77	439928	46.87	ppb		90
34) cis-1,2-Dichloroethene	4.707	96	1168459	182.30	ppb		99
35) 2-Butanone	4.767	43	88249	48.98	ppb		89
36) Propionitrile	4.859	54	137729	257.20	ppb		94
37) Bromochloromethane	5.133	130	184318	50.35	ppb		99
38) Methacrylonitrile	5.145	67	86192	46.66	ppb		88
39) Tetrahydrofuran	5.225	42	58933	43.69	ppb		93
40) Chloroform	5.322	83	507058	49.95	ppb		99
41) 1,1,1-Trichloroethane	5.590	97	525315	56.10	ppb		99

1st 10/27/16
2nd 10/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5969.D
Acq On : 26 Oct 2016 6:24 pm
Operator : K.Ruest
Sample : R1611185-001DMS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 11:31:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	733194	44.44	ppb	94
44) Cyclohexane	5.670	41	257777	37.04	ppb	96
46) Carbontetrachloride	5.853	121	101713	37.20	ppb	98
47) 1,1-Dichloropropene	5.865	75	429958	49.09	ppb	96
49) Benzene	6.164	78	1225559	50.79	ppb	98
50) 1,2-Dichloroethane	6.206	62	355250	45.32	ppb	95
51) Iso-Butyl Alcohol	6.194	43	186401	883.87	ppb	98
52) n-Heptane	6.639	43	369680	42.86	ppb	96
53) 1-Butanol	7.109	56	249543	1996.10	ppb	96
54) Trichloroethene	7.078	130	351819	51.32	ppb	97
55) Methylcyclohexane	7.310	55	325283	37.94	ppb	93
56) 1,2-Diclpropane	7.346	63	317151	49.53	ppb	97
57) Dibromomethane	7.486	93	154242	45.19	ppb	92
58) 1,4-Dioxane	7.547	88	41959m	809.46	ppb	
59) Methyl Methacrylate	7.572	69	161661	45.86	ppb	94
60) Bromodichloromethane	7.706	83	340590	41.10	ppb	97
61) 2-Nitropropane	7.980	41	87002	69.83	ppb	85
63) cis-1,3-Dichloropropene	8.236	75	405164	39.01	ppb	96
64) 4-Methyl-2-pentanone	8.438	43	223522	52.13	ppb	95
66) Toluene	8.602	91	1363674	50.85	ppb	98
67) trans-1,3-Dichloropropene	8.858	75	338342	36.34	ppb	98
68) Ethyl Methacrylate	8.998	69	349096	48.42	ppb	98
69) 1,1,2-Trichloroethane	9.041	97	228621	48.95	ppb	96
72) Tetrachloroethene	9.175	164	249090	45.96	ppb	96
73) 2-Hexanone	9.328	43	145889	48.71	ppb	93
74) 1,3-Dichloropropane	9.212	76	420558	49.08	ppb	95
75) Dibromochloromethane	9.431	129	209719	37.30	ppb	99
76) N-Butyl Acetate	9.480	43	344346	40.93	ppb	97
77) 1,2-Dibromoethane	9.529	107	227678	48.56	ppb	99
78) Chlorobenzene	10.010	112	871668	48.60	ppb	98
79) 3-CBTF	10.029	180	405624	40.90	ppb	93
80) 4-CBTF	10.084	180	364456	40.64	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.096	131	292745	45.77	ppb	96
82) Ethylbenzene	10.132	106	482958	49.40	ppb	99
83) (m+p)Xylene	10.242	106	1170125	99.16	ppb	99
84) o-Xylene	10.596	106	590928	48.94	ppb	100
85) Styrene	10.608	104	957269	48.47	ppb	98
87) Bromoform	10.760	173	101142	34.45	ppb	93
88) 2-CBTF	10.833	180	391743	42.11	ppb	97
89) Isopropylbenzene	10.925	105	1503264	53.15	ppb	98
90) Cyclohexanone	10.986	55	142930	522.15	ppb	88
91) trans-1,4-Dichloro-2-B...	11.230	53	23743	15.29	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.181	83	265020	51.14	ppb	98
93) Bromobenzene	11.169	156	354517	47.23	ppb	92
94) 1,2,3-Trichloropropane	11.211	110	82870	50.21	ppb	92
95) n-Propylbenzene	11.278	91	1780343	54.00	ppb	99
96) 2-Chlorotoluene	11.339	91	1030558	52.86	ppb	98
97) 3-Chlorotoluene	11.394	91	956376	47.60	ppb	99
98) 4-Chlorotoluene	11.431	91	1164673	50.57	ppb	98
99) 1,3,5-Trimethylbenzene	11.431	105	1212986	51.10	ppb	99
100) tert-Butylbenzene	11.699	119	1081039	51.29	ppb	99
101) 1,2,4-Trimethylbenzene	11.736	105	1231838	49.78	ppb	100
102) 3,4-DCBTF	11.797	214	275421	38.09	ppb	99
103) sec-Butylbenzene	11.882	105	1531934	51.44	ppb	99
104) p-Isopropyltoluene	11.998	119	1289413	49.66	ppb	98
105) 1,3-Dclbenz	11.961	146	699467	48.47	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5969.D
Acq On : 26 Oct 2016 6:24 pm
Operator : K.Ruest
Sample : R1611185-001DMS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 11:31:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	12.034	146	703634	48.23	ppb	98
107) 2,4-DCBTF	12.083	214	253672	37.86	ppb	97
108) 2,5-DCBTF	12.126	214	278759	36.56	ppb	96
109) n-Butylbenzene	12.333	91	1143464	49.81	ppb	98
110) 1,2-Dclbenz	12.333	146	646098	48.11	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	48290	42.92	ppb	89
112) Trielution Dichlorotol...	13.071	125	1540619	126.03	ppb	97
113) 1,3,5 Trichlorobenzene	13.126	180	408603	38.18	ppb	99
114) Coelution Dichlorotoluene	13.400	125	1090964	82.61	ppb	97
115) 1,2,4-Tcbenzene	13.607	180	434361	44.70	ppb	98
116) Hexachlorobt	13.747	225	158685	38.66	ppb	94
117) Naphthalen	13.796	128	848928	50.43	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	371907	44.41	ppb	97
119) 2,4,5-Trichlorotolene	14.570	159	230429	39.12	ppb	99
120) 2,3,6-Trichlorotoluene	14.656	159	191427	35.13	ppb	98

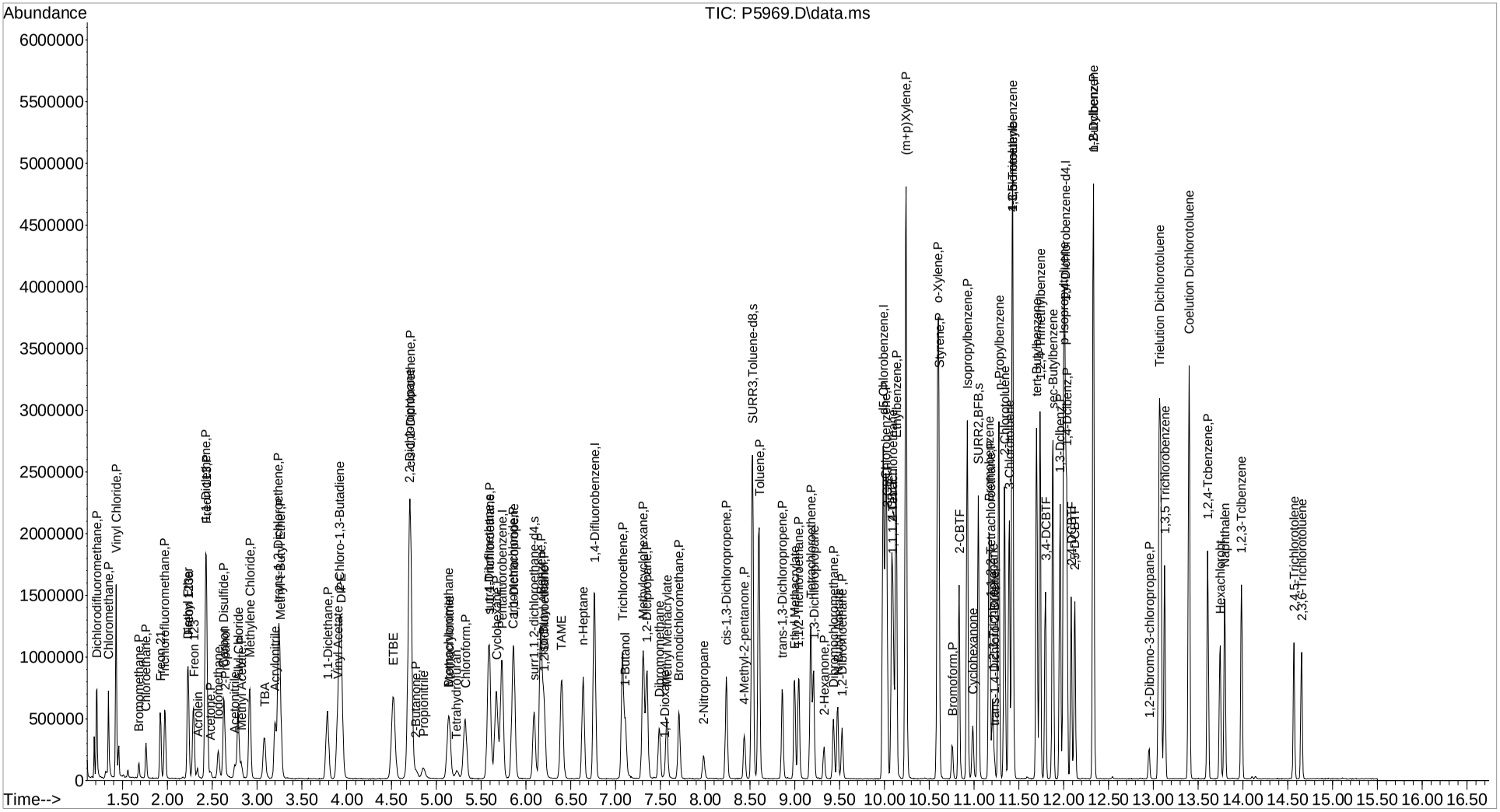
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/27/16
2nd 10/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5969.D
Acq On : 26 Oct 2016 6:24 pm
Operator : K.Ruest
Sample : R1611185-001DMS|2.0 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 18 Sample Multiplier: 1

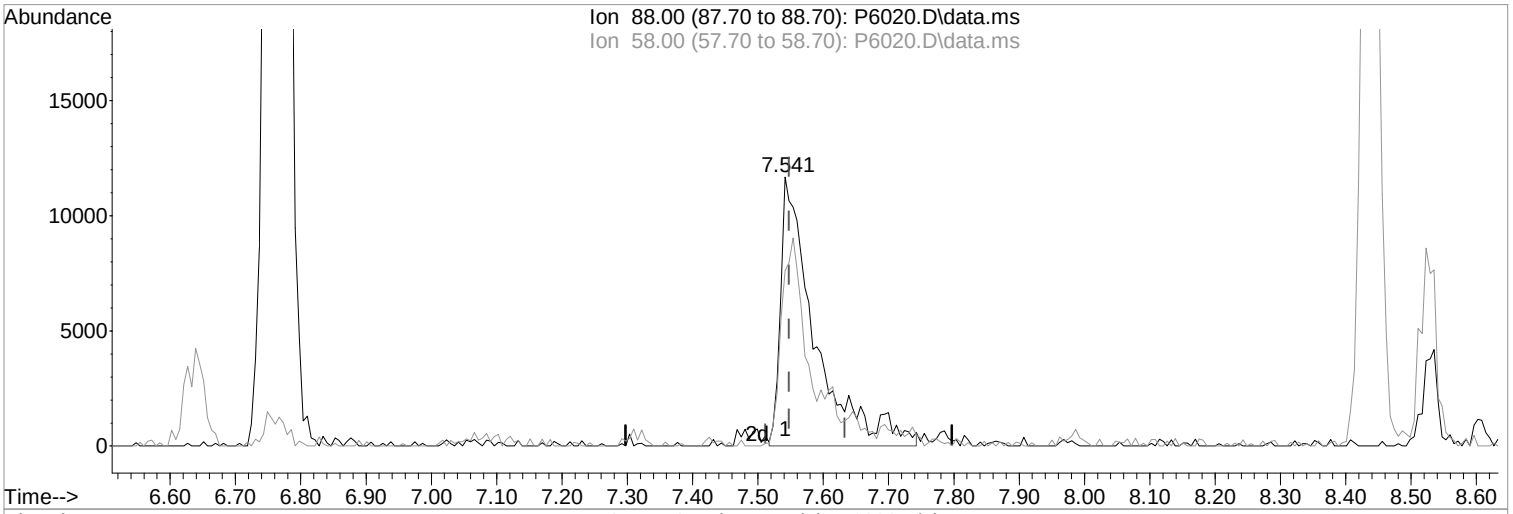
Quant Time: Oct 27 11:31:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

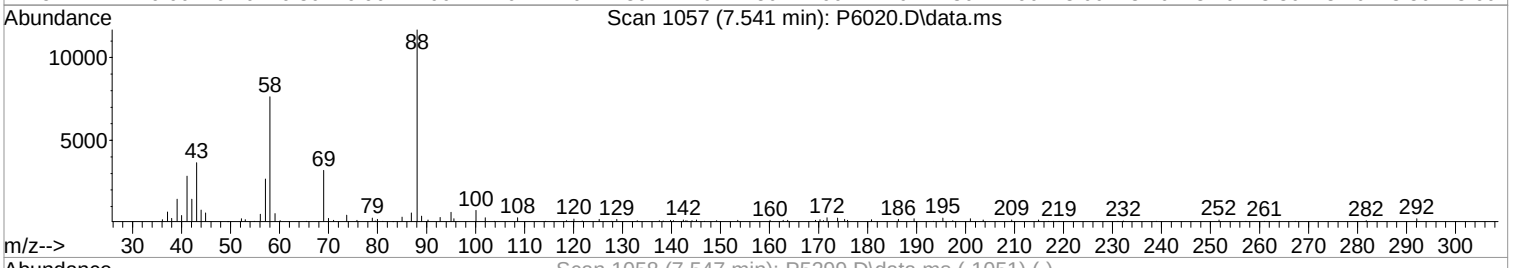


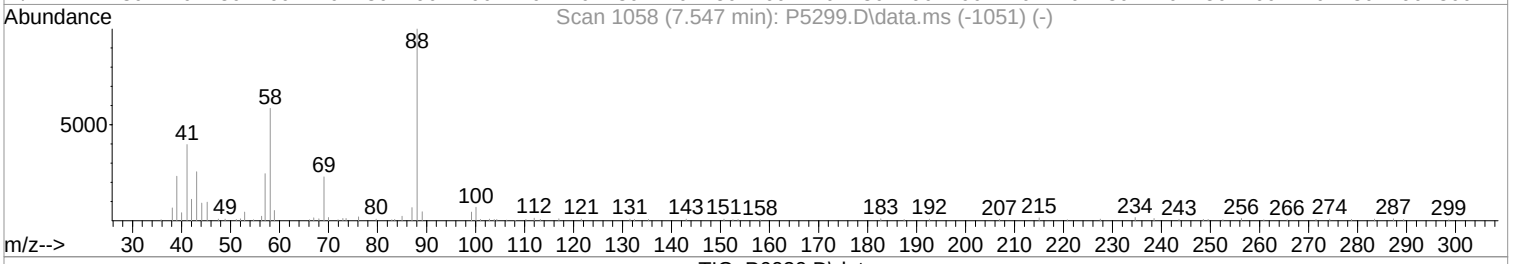
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6020.D
Acq On : 27 Oct 2016 9:23 pm
Operator : K.Ruest
Sample : R1611185-032DMS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 28 08:43:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6020.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.006) 843.07 ppb m

response 43068

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	65.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

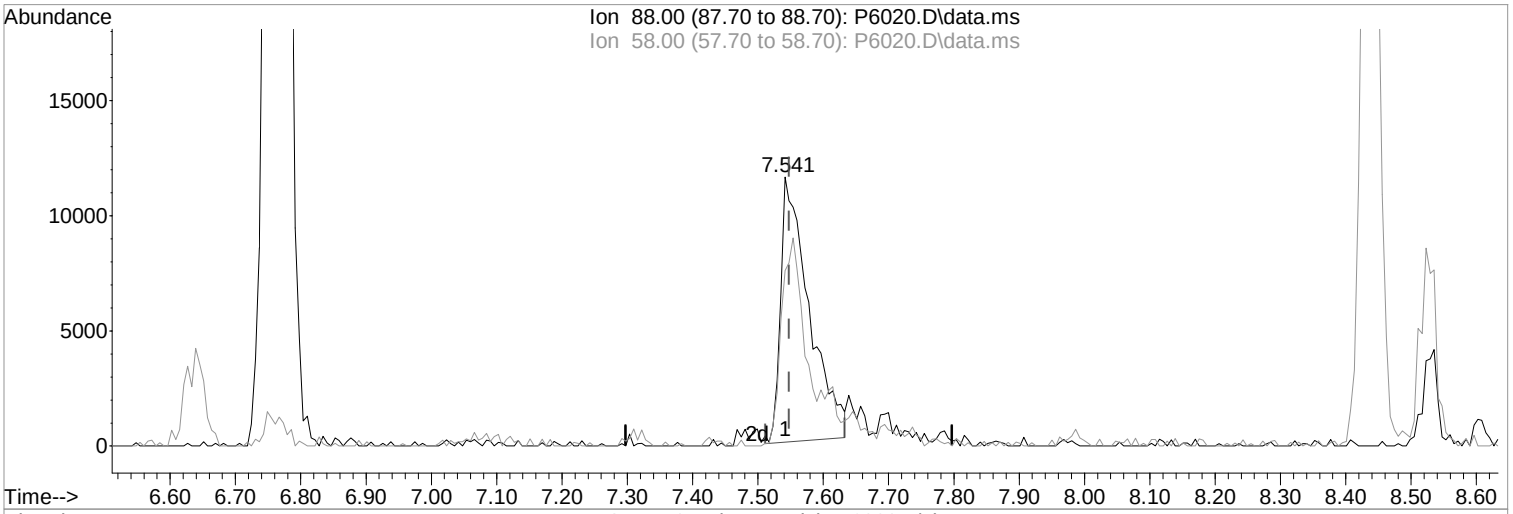
Poor integration.

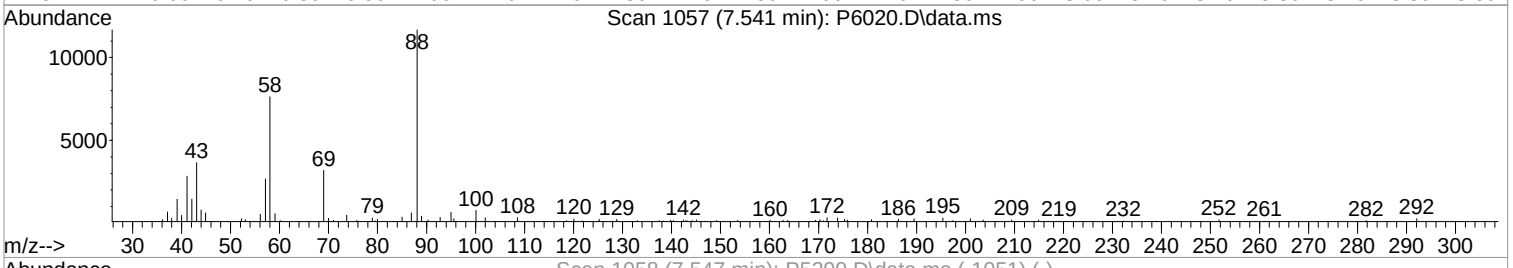
10/28/16

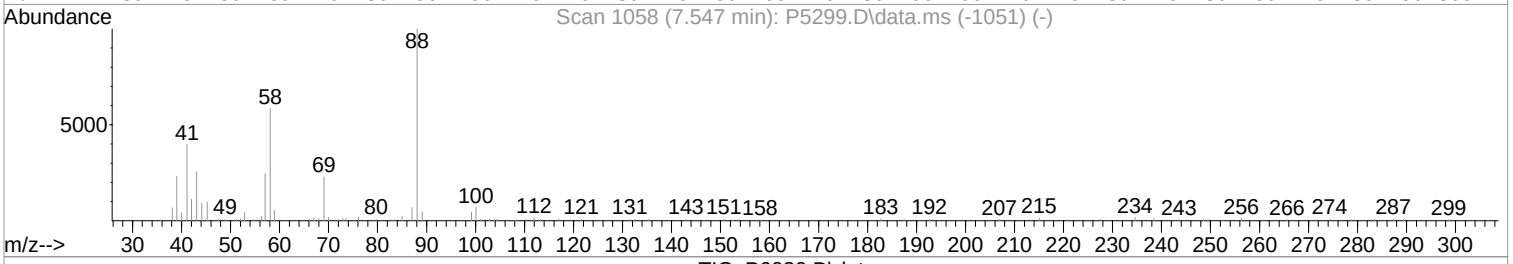
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6020.D
Acq On : 27 Oct 2016 9:23 pm
Operator : K.Ruest
Sample : R1611185-032DMS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 28 08:43:08 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6020.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.006) 682.12 ppb

response 34846

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	65.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6020.D
Acq On : 27 Oct 2016 9:23 pm
Operator : K.Ruest
Sample : R1611185-032DMS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 28 14:04:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	791569	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1279620	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1182460	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	607675	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.591	113	378592	55.44	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.88%				
48) surr1,1,2-dichloroetha...	6.090	65	415410	53.55	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.10%				
65) SURR3,Toluene-d8	8.529	98	1610391	57.54	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 115.08%				
70) SURR2,BFB	11.047	95	594193	54.42	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	397822	46.29	ppb		98
3) Chloromethane	1.341	50	340929	46.48	ppb		99
4) Vinyl Chloride	1.427	62	483885	77.27	ppb		100
5) Bromomethane	1.683	94	80062	21.75	ppb		92
6) Chloroethane	1.762	64	167161	55.49	ppb		98
7) Freon 21	1.921	67	400936	48.35	ppb		93
8) Trichlorofluoromethane	1.969	101	326499	45.04	ppb		97
9) Diethyl Ether	2.225	59	144312	45.13	ppb		93
10) Freon 123a	2.232	67	252977	50.17	ppb		86
11) Freon 123	2.286	83	326284	49.83	ppb		96
12) Acrolein	2.335	56	46973	108.56	ppb		89
13) 1,1-Diclethene	2.427	96	309531	56.22	ppb	#	88
14) Freon 113	2.433	101	304265	52.13	ppb		96
15) Acetone	2.481	43	54283	42.05	ppb		94
16) 2-Propanol	2.640	45	240031	871.86	ppb		99
17) Iodomethane	2.567	142	213674	28.88	ppb		98
18) Carbon Disulfide	2.628	76	581544	33.56	ppb		99
19) Acetonitrile	2.756	40	47632	209.60	ppb	#	83
20) Allyl Chloride	2.786	76	111781	34.92	ppb	#	87
21) Methyl Acetate	2.823	43	153095	52.35	ppb		98
22) Methylene Chloride	2.920	84	318177	54.81	ppb		96
23) TBA	3.079	59	387805	884.69	ppb		90
24) Acrylonitrile	3.201	53	370440	247.02	ppb		98
25) Methyl-t-Butyl Ether	3.256	73	741266	47.89	ppb		97
26) trans-1,2-Dichloroethene	3.237	96	336816	54.42	ppb		95
28) 1,1-Diclethane	3.786	63	589094	57.32	ppb		97
29) Vinyl Acetate	3.902	86	56737	61.45	ppb	#	85
30) DIPE	3.938	45	1132436	55.96	ppb		99
31) 2-Chloro-1,3-Butadiene	3.920	53	510164	52.42	ppb		98
32) ETBE	4.518	59	976957	54.32	ppb		96
33) 2,2-Dichloropropane	4.701	77	415834	44.96	ppb		93
34) cis-1,2-Dichloroethene	4.707	96	1085013	171.77	ppb		95
35) 2-Butanone	4.768	43	88993	50.12	ppb		93
36) Propionitrile	4.859	54	136738	259.10	ppb		91
37) Bromochloromethane	5.139	130	191172	52.99	ppb		95
38) Methacrylonitrile	5.146	67	84094	46.20	ppb		98
39) Tetrahydrofuran	5.225	42	60707	45.66	ppb		99
40) Chloroform	5.316	83	536473	53.63	ppb		94
41) 1,1,1-Trichloroethane	5.591	97	468597	50.78	ppb		97

1st 10/28/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6020.D
Acq On : 27 Oct 2016 9:23 pm
Operator : K.Ruest
Sample : R1611185-032DMS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 28 14:04:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	882564	54.28	ppb	94
44) Cyclohexane	5.664	41	341151	49.74	ppb	97
46) Carbontetrachloride	5.853	121	106488	39.52	ppb	95
47) 1,1-Dichloropropene	5.865	75	446449	51.73	ppb	96
49) Benzene	6.170	78	1268596	53.35	ppb	98
50) 1,2-Dichloroethane	6.200	62	378485	48.99	ppb	99
51) Iso-Butyl Alcohol	6.194	43	175908	846.38	ppb	99
52) n-Heptane	6.639	43	365985	43.05	ppb	96
53) 1-Butanol	7.115	56	278544	2260.85	ppb	98
54) Trichloroethene	7.078	130	355856	52.67	ppb	96
55) Methylcyclohexane	7.310	55	432108	51.13	ppb	95
56) 1,2-Diclpropane	7.346	63	333754	52.89	ppb	100
57) Dibromomethane	7.487	93	161692	48.07	ppb	96
58) 1,4-Dioxane	7.541	88	43068m	843.07	ppb	
59) Methyl Methacrylate	7.572	69	173616	49.98	ppb	93
60) Bromodichloromethane	7.706	83	348494	42.67	ppb	97
61) 2-Nitropropane	7.986	41	82637	67.30	ppb	87
63) cis-1,3-Dichloropropene	8.236	75	419128	40.95	ppb	98
64) 4-Methyl-2-pentanone	8.438	43	217620	51.50	ppb	95
66) Toluene	8.602	91	1419284	53.70	ppb	98
67) trans-1,3-Dichloropropene	8.858	75	341213	37.18	ppb	99
68) Ethyl Methacrylate	8.998	69	350197	49.28	ppb	94
69) 1,1,2-Trichloroethane	9.041	97	237242	51.55	ppb	95
72) Tetrachloroethene	9.181	164	263086	49.55	ppb	97
73) 2-Hexanone	9.328	43	144587	49.29	ppb	90
74) 1,3-Dichloropropane	9.212	76	427675	50.95	ppb	97
75) Dibromochloromethane	9.431	129	208948	37.94	ppb	96
76) N-Butyl Acetate	9.480	43	388211	47.11	ppb	97
77) 1,2-Dibromoethane	9.529	107	231632	50.44	ppb	99
78) Chlorobenzene	10.010	112	901490	51.31	ppb	95
79) 3-CBTF	10.029	180	485456	49.97	ppb	94
80) 4-CBTF	10.084	180	434592	49.48	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.096	131	303655	48.47	ppb	96
82) Ethylbenzene	10.132	106	500623	52.28	ppb	97
83) (m+p)Xylene	10.242	106	1215055	105.12	ppb	97
84) o-Xylene	10.596	106	609036	51.49	ppb	100
85) Styrene	10.608	104	958837	49.57	ppb	100
87) Bromoform	10.760	173	99629	35.04	ppb	98
88) 2-CBTF	10.833	180	471499	52.34	ppb	96
89) Isopropylbenzene	10.925	105	1537401	56.13	ppb	99
90) Cyclohexanone	10.986	55	135435	510.93	ppb	99
91) trans-1,4-Dichloro-2-B...	11.224	53	28610	19.03	ppb	86
92) 1,1,2,2-Tetrachloroethane	11.181	83	267202	53.25	ppb	94
93) Bromobenzene	11.169	156	374823	51.57	ppb	94
94) 1,2,3-Trichloropropane	11.211	110	78504	49.12	ppb	96
95) n-Propylbenzene	11.279	91	1820127	57.01	ppb	99
96) 2-Chlorotoluene	11.339	91	1058601	56.07	ppb	100
97) 3-Chlorotoluene	11.394	91	1121168	57.63	ppb	96
98) 4-Chlorotoluene	11.431	91	1191648	53.43	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	1215420	52.88	ppb	99
100) tert-Butylbenzene	11.699	119	1115049	54.63	ppb	99
101) 1,2,4-Trimethylbenzene	11.736	105	1253859	52.33	ppb	99
102) 3,4-DCBTF	11.797	214	322490	46.06	ppb	100
103) sec-Butylbenzene	11.882	105	1559212	54.07	ppb	99
104) p-Isopropyltoluene	11.998	119	1325541	52.72	ppb	96
105) 1,3-Dclbenz	11.961	146	710229	50.83	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6020.D
Acq On : 27 Oct 2016 9:23 pm
Operator : K.Ruest
Sample : R1611185-032DMS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 28 14:04:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

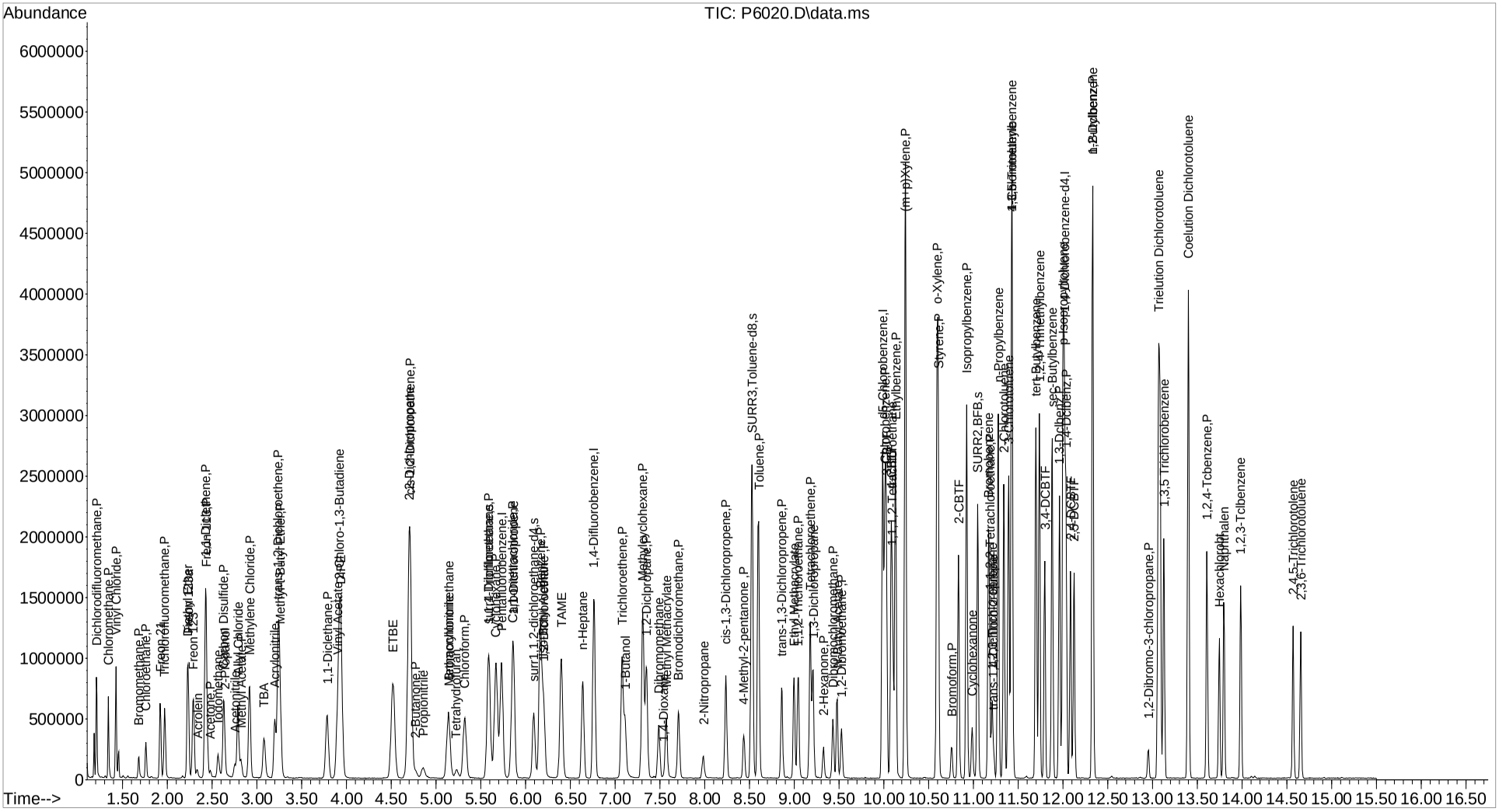
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	12.034	146	704073	49.83	ppb	97
107) 2,4-DCBTF	12.083	214	308098	47.48	ppb	97
108) 2,5-DCBTF	12.126	214	329190	44.59	ppb	98
109) n-Butylbenzene	12.333	91	1165026	52.41	ppb	97
110) 1,2-Dclbenz	12.333	146	660358	50.78	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	45636	41.88	ppb	87
112) Trielution Dichlorotol...	13.071	125	1808926	152.81	ppb	98
113) 1,3,5 Trichlorobenzene	13.126	180	470638	45.42	ppb	95
114) Coelution Dichlorotoluene	13.400	125	1279617	100.06	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	434949	46.23	ppb	99
116) Hexachlorobt	13.748	225	158212	39.80	ppb	95
117) Naphthalen	13.796	128	821489	50.40	ppb	96
118) 1,2,3-Tclbenzene	13.985	180	360368	44.44	ppb	97
119) 2,4,5-Trichlorotolene	14.571	159	251501	44.09	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	215478	40.84	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6020.D
Acq On : 27 Oct 2016 9:23 pm
Operator : K.Ruest
Sample : R1611185-032DMS|2.5 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 28 14:04:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6037.D
Acq On : 28 Oct 2016 5:54 am
Operator : K.Ruest
Sample : R1611185-027DMS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Oct 28 09:10:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	763285	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1257406	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1158681	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	612342	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	368392	54.89	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.78%				
48) surr1,1,2-dichloroetha...	6.090	65	408152	53.54	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.08%				
65) SURR3,Toluene-d8	8.529	98	1580307	57.47	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.94%				
70) SURR2,BFB	11.047	95	583522	54.39	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	395601	47.74	ppb		98
3) Chloromethane	1.341	50	342956	48.49	ppb		99
4) Vinyl Chloride	1.427	62	337437	55.88	ppb		95
5) Bromomethane	1.683	94	109520	31.24	ppb		100
6) Chloroethane	1.762	64	158184	54.45	ppb		94
7) Freon 21	1.920	67	394388	49.33	ppb		97
8) Trichlorofluoromethane	1.969	101	319651	45.73	ppb		98
9) Diethyl Ether	2.225	59	144352	46.81	ppb		97
10) Freon 123a	2.231	67	238260	49.00	ppb		96
11) Freon 123	2.286	83	305655	48.41	ppb		93
12) Acrolein	2.329	56	56722	135.95	ppb		99
13) 1,1-Diclethene	2.426	96	297188	55.98	ppb		90
14) Freon 113	2.433	101	286063	50.83	ppb		92
15) Acetone	2.481	43	61380	49.31	ppb		90
16) 2-Propanol	2.634	45	265848	1001.41	ppb		99
17) Iodomethane	2.567	142	205630	28.82	ppb		95
18) Carbon Disulfide	2.628	76	975380	58.38	ppb		98
19) Acetonitrile	2.756	40	54047	246.65	ppb		90
20) Allyl Chloride	2.786	76	151595	49.12	ppb	#	90
21) Methyl Acetate	2.823	43	163075	57.83	ppb		96
22) Methylene Chloride	2.920	84	313738	56.05	ppb		96
23) TBA	3.085	59	439784	1040.44	ppb		98
24) Acrylonitrile	3.201	53	389773	269.54	ppb		98
25) Methyl-t-Butyl Ether	3.256	73	775492	51.96	ppb		94
26) trans-1,2-Dichloroethene	3.237	96	328208	55.00	ppb		92
28) 1,1-Diclethane	3.786	63	568239	57.34	ppb		98
29) Vinyl Acetate	3.902	86	56165	63.09	ppb	#	95
30) DIPE	3.938	45	1110264	56.90	ppb		98
31) 2-Chloro-1,3-Butadiene	3.920	53	506726	54.00	ppb		98
32) ETBE	4.524	59	967114	55.77	ppb		99
33) 2,2-Dichloropropane	4.700	77	317445	35.59	ppb		89
34) cis-1,2-Dichloroethene	4.706	96	1047870	172.04	ppb		96
35) 2-Butanone	4.774	43	96038	56.09	ppb		95
36) Propionitrile	4.859	54	151026	296.78	ppb		99
37) Bromochloromethane	5.139	130	185815	53.42	ppb		96
38) Methacrylonitrile	5.152	67	89952	51.25	ppb		98
39) Tetrahydrofuran	5.231	42	64215	50.09	ppb		99
40) Chloroform	5.322	83	538910	55.87	ppb		97
41) 1,1,1-Trichloroethane	5.590	97	456291	51.28	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6037.D
Acq On : 28 Oct 2016 5:54 am
Operator : K.Ruest
Sample : R1611185-027DMS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Oct 28 09:10:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	861023	54.92	ppb	96
44) Cyclohexane	5.676	41	336328	49.91	ppb	98
46) Carbontetrachloride	5.859	121	115826	43.75	ppb	98
47) 1,1-Dichloropropene	5.865	75	434398	51.22	ppb	97
49) Benzene	6.164	78	1264324	54.11	ppb	96
50) 1,2-Dichloroethane	6.206	62	376586	49.61	ppb	98
51) Iso-Butyl Alcohol	6.200	43	204561	1001.63	ppb	95
52) n-Heptane	6.639	43	340071	40.71	ppb	96
53) 1-Butanol	7.108	56	297037	2453.54	ppb	99
54) Trichloroethene	7.078	130	1270094	191.30	ppb	95
55) Methylcyclohexane	7.310	55	416131	50.11	ppb	97
56) 1,2-Diclpropane	7.346	63	333523	53.79	ppb	98
57) Dibromomethane	7.486	93	166385	50.34	ppb	96
58) 1,4-Dioxane	7.553	88	43087	858.34	ppb	84
59) Methyl Methacrylate	7.572	69	185079	54.22	ppb	93
60) Bromodichloromethane	7.706	83	382256	47.63	ppb	99
61) 2-Nitropropane	7.980	41	86664	71.83	ppb	95
62) 2-Chloroethylvinyl Ether	8.102	63	75137	28.35	ppb	94
63) cis-1,3-Dichloropropene	8.236	75	480610	47.78	ppb	98
64) 4-Methyl-2-pentanone	8.437	43	233449	56.23	ppb	98
66) Toluene	8.596	91	1387084	53.41	ppb	99
67) trans-1,3-Dichloropropene	8.858	75	414166	45.93	ppb	93
68) Ethyl Methacrylate	8.998	69	380594	54.51	ppb	99
69) 1,1,2-Trichloroethane	9.041	97	245256	54.23	ppb	99
72) Tetrachloroethene	9.175	164	248630	47.79	ppb	97
73) 2-Hexanone	9.328	43	158155	55.02	ppb	95
74) 1,3-Dichloropropane	9.212	76	430393	52.33	ppb	96
75) Dibromochloromethane	9.431	129	270994	50.21	ppb	98
76) N-Butyl Acetate	9.480	43	417191	51.67	ppb	96
77) 1,2-Dibromoethane	9.529	107	239409	53.20	ppb	97
78) Chlorobenzene	10.010	112	890015	51.70	ppb	95
79) 3-CBTF	10.029	180	446950	46.95	ppb	96
80) 4-CBTF	10.083	180	403262	46.85	ppb	96
81) 1,1,1,2-Tetrachloroethane	10.096	131	296109	48.23	ppb	95
82) Ethylbenzene	10.132	106	497725	53.04	ppb	97
83) (m+p)Xylene	10.242	106	1214628	107.24	ppb	98
84) o-Xylene	10.596	106	612390	52.84	ppb	97
85) Styrene	10.608	104	1017437	53.68	ppb	99
87) Bromoform	10.754	173	150542	52.55	ppb	93
88) 2-CBTF	10.833	180	445085	49.04	ppb	93
89) Isopropylbenzene	10.925	105	1546405	56.03	ppb	98
90) Cyclohexanone	10.986	55	153740	575.57	ppb	99
91) trans-1,4-Dichloro-2-B...	11.230	53	58084	38.34	ppb	93
92) 1,1,2,2-Tetrachloroethane	11.181	83	293283	58.00	ppb	98
93) Bromobenzene	11.169	156	373624	51.02	ppb	95
94) 1,2,3-Trichloropropane	11.211	110	81858	50.83	ppb	95
95) n-Propylbenzene	11.278	91	1787004	55.54	ppb	99
96) 2-Chlorotoluene	11.339	91	1060779	55.76	ppb	99
97) 3-Chlorotoluene	11.394	91	1098018	56.01	ppb	100
98) 4-Chlorotoluene	11.431	91	1190758	52.99	ppb	98
99) 1,3,5-Trimethylbenzene	11.431	105	1263562	54.55	ppb	98
100) tert-Butylbenzene	11.699	119	1103409	53.64	ppb	98
101) 1,2,4-Trimethylbenzene	11.736	105	1280875	53.05	ppb	99
102) 3,4-DCBTF	11.797	214	304031	43.09	ppb	98
103) sec-Butylbenzene	11.882	105	1570849	54.06	ppb	99
104) p-Isopropyltoluene	11.998	119	1323729	52.25	ppb	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6037.D
Acq On : 28 Oct 2016 5:54 am
Operator : K.Ruest
Sample : R1611185-027DMS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Oct 28 09:10:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	723251	51.37	ppb	98
106) 1,4-Dclbenz	12.034	146	711803	50.00	ppb	96
107) 2,4-DCBTF	12.083	214	286497	43.82	ppb	98
108) 2,5-DCBTF	12.126	214	310663	41.76	ppb	96
109) n-Butylbenzene	12.333	91	1164230	51.97	ppb	96
110) 1,2-Dclbenz	12.333	146	667636	50.95	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	54559	49.69	ppb	95
112) Trielution Dichlorotol...	13.071	125	1766415	148.08	ppb	98
113) 1,3,5 Trichlorobenzene	13.126	180	464231	44.46	ppb	95
114) Coelution Dichlorotoluene	13.400	125	1255358	97.41	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	431712	45.53	ppb	95
116) Hexachlorobt	13.747	225	154818	38.65	ppb	96
117) Naphthalen	13.796	128	885962	53.94	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	376612	46.09	ppb	98
119) 2,4,5-Trichlorotolene	14.570	159	246695	42.92	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	214067	40.26	ppb	98

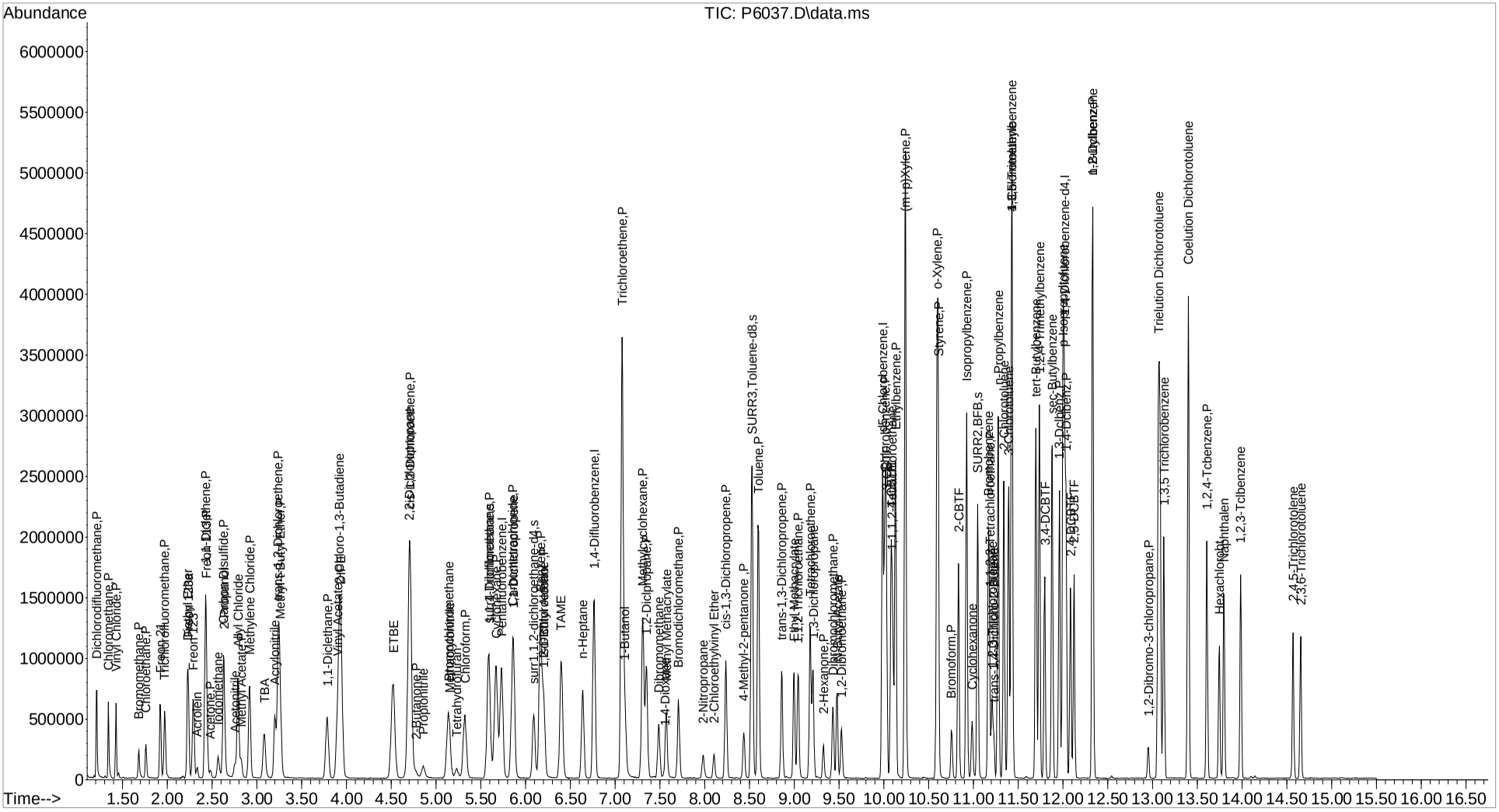
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/31/16 2nd 10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6037.D
Acq On : 28 Oct 2016 5:54 am
Operator : K.Ruest
Sample : R1611185-027DMS|500 Inst : MSVOA-12
Misc : CB&I 8260 T4
ALS Vial : 40 Sample Multiplier: 1

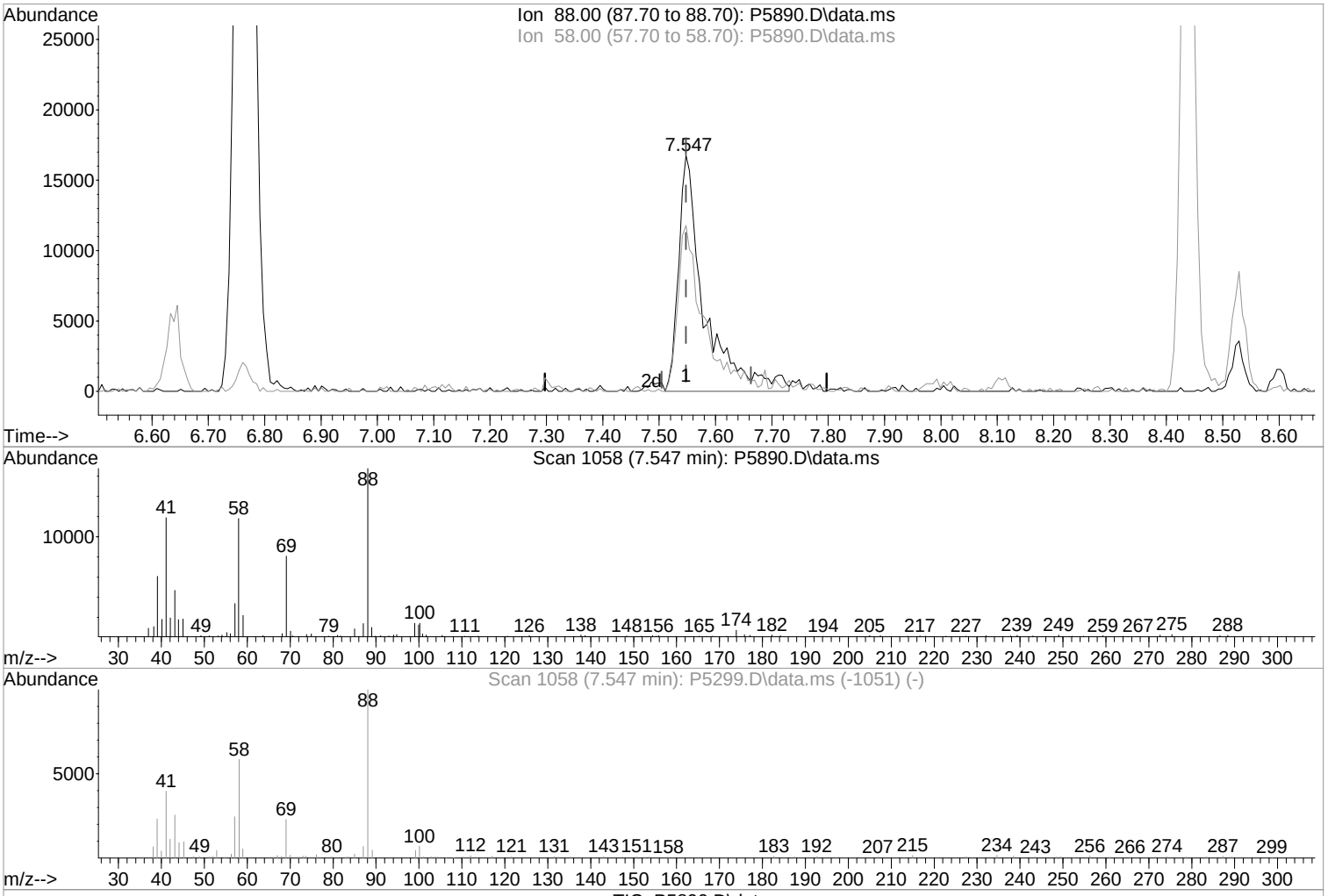
Quant Time: Oct 28 09:10:55 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:32:40 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5890.D\data.ms

(58) 1,4-Dioxane

7.547min (0.000) 977.15 ppb m

response 53299

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	70.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

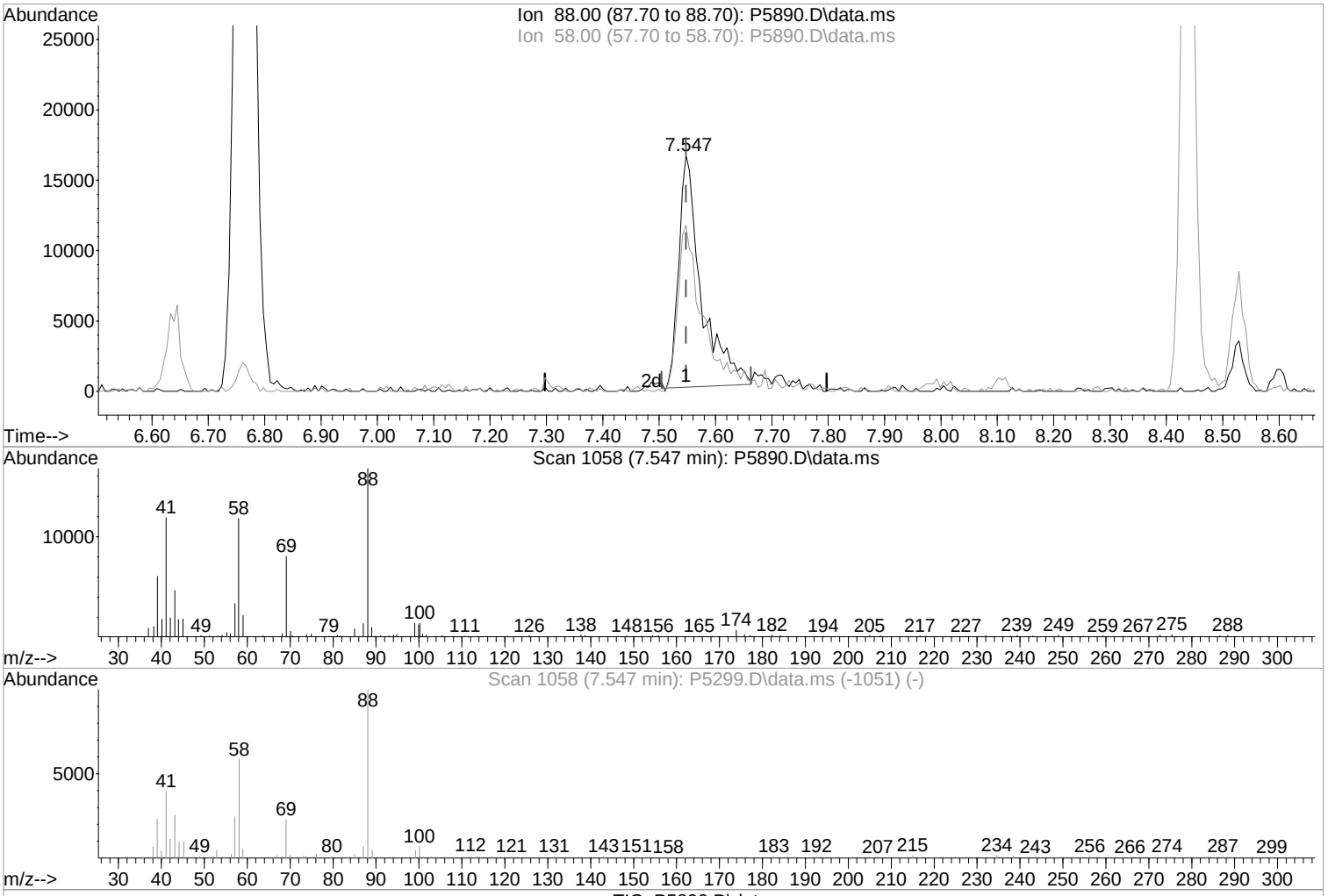
Poor integration.

10/24/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:32:40 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



TIC: P5890.D\data.ms

(58) 1,4-Dioxane

7.547min (0.000) 843.52 ppb

response 46010

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	70.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/24/16

1st 10/25/16
2nd 10/25/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	105	0.00	
2	P	Dichlorodifluoromethane	0.5428	0.6416	-18.2	120	0.00	
3	P	Chloromethane	0.4633	0.5899	-27.3#	130	0.00	*
4	P	Vinyl Chloride	0.3956	0.4409	-11.5	117	0.00	
5	P	Bromomethane	0.2560	0.2287	~~-10.7~~ -1.6	112	0.00	
6	P	Chloroethane	0.2263	0.2265	~~-0.1~~ -19.1	114	0.00	
7		Freon 21	0.5238	0.4968	5.2	115	0.00	
8	P	Trichlorofluoromethane	0.4579	0.4785	-4.5	109	0.00	
9		Diethyl Ether	0.2020	0.2105	-4.2	108	0.00	
10		Freon 123a	0.3185	0.3166	0.6	121	0.00	
11		Freon 123	0.4136	0.3998	3.3	123	0.00	
12		Acrolein	0.0273	0.0299	-9.5	110	0.00	
13	P	1,1-Diclethene	0.3478	0.3978	-14.4	125	0.00	
14	P	Freon 113	0.3687	0.4222	-14.5	123	0.00	
15	P	Acetone	0.0815	0.0869	-6.6	112	0.00	
16		2-Propanol	0.0174	0.0183	-5.2	104	0.00	
17		Iodomethane	0.4673	0.5422	-16.0	104	0.00	
18	P	Carbon Disulfide	1.0945	1.2659	-15.7	121	0.00	
19		Acetonitrile	0.0144	0.0157	-9.0	112	0.00	
20		Allyl Chloride	0.2022	0.2535	-25.4#	128	0.00	
21	P	Methyl Acetate	0.1847	0.2103	-13.9	115	0.00	
22	P	Methylene Chloride	0.3667	0.4217	-15.0	123	0.00	
23		TBA	0.0277	0.0303	-9.4	109	0.00	
24		Acrylonitrile	0.0947	0.1062	-12.1	116	0.00	
25	P	Methyl-t-Butyl Ether	0.9776	1.0711	-9.6	112	0.00	
26	P	trans-1,2-Dichloroethene	0.3909	0.4376	-11.9	123	0.00	
27		Halothane	0.0000	0.0000	0.0	120	0.04	
28	P	1,1-Diclethane	0.6491	0.7711	-18.8	126	0.00	
29		Vinyl Acetate	0.0583	0.0768	-31.7#	126	0.00	
30		DIPE	1.2782	1.3876	-8.6	112	0.00	
31		2-Chloro-1,3-Butadiene	0.6147	0.6690	-8.8	115	0.00	
32		ETBE	1.1360	1.2161	-7.1	107	0.00	
33		2,2-Dichloropropane	0.5843	0.6522	-11.6	121	0.00	
34	P	cis-1,2-Dichloroethene	0.3990	0.4654	-16.6	122	0.00	
35	P	2-Butanone	0.1122	0.1235	-10.1	110	0.00	
36		Propionitrile	0.0333	0.0372	-11.7	113	0.00	
37		Bromochloromethane	0.2279	0.2580	-13.2	115	0.00	
38		Methacrylonitrile	0.1150	0.1216	-5.7	112	0.00	
39		Tetrahydrofuran	0.0840	0.0938	-11.7	125	0.00	
40	P	Chloroform	0.6319	0.7062	-11.8	119	0.00	
41	P	1,1,1-Trichloroethane	0.5829	0.6242	-7.1	117	0.00	
42		TAME	1.0270	1.0695	-4.1	105	0.00	
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	112	0.00	
44	P	Cyclohexane	0.2680	0.2838	-5.9	134	0.00	
45	s	surr4,Dibrflmethane	0.2669	0.2871	-7.6	108	0.00	
46	P	Carbontetrachloride	0.1053	0.0988	6.2	110	0.00	
47		1,1-Dichloropropene	0.3373	0.3758	-11.4	123	0.00	
48	s	surr1,1,2-dichloroethane-d4	0.3031	0.3148	-3.9	107	0.00	
49	P	Benzene	0.9292	1.0221	-10.0	125	0.00	
50	P	1,2-Dichloroethane	0.3019	0.3008	0.4	110	0.00	
51		Iso-Butyl Alcohol	0.0081	0.0085	-4.9	110	-0.01	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52		n-Heptane	0.3322	0.3550	-6.9	121	0.00
53		1-Butanol	0.0048	0.0047	2.1	99	0.00
54	P	Trichloroethene	0.2640	0.2668	-1.1	115	0.00
55	P	Methylcyclohexane	0.3302	0.3425	-3.7	133	0.00
56	P	1,2-Diclpropane	0.2466	0.2766	-12.2	124	0.00
57		Dibromomethane	0.1314	0.1296	1.4	114	0.00
58		1,4-Dioxane	0.0020	0.0020	0.0	112	0.00
59		Methyl Methacrylate	0.1357	0.1396	-2.9	114	0.00
60	P	Bromodichloromethane	0.3191	0.3178	0.4	114	0.00
61		2-Nitropropane	0.0480	0.0392	18.3	91	0.00
62		2-Chloroethylvinyl Ether	0.1054	0.1284	-21.8#	131	0.00
63	P	cis-1,3-Dichloropropene	0.4000	0.4306	-7.6	118	0.00
64	P	4-Methyl-2-pentanone	0.1651	0.1761	-6.7	112	0.00
65	s	SURR3,Toluene-d8	1.0935	1.2340	-12.8	113	0.00
66	P	Toluene	1.0327	1.1118	-7.7	120	0.00
67	P	trans-1,3-Dichloropropene	0.3586	0.3581	0.1	113	0.00
68		Ethyl Methacrylate	0.2776	0.2962	-6.7	113	0.00
69	P	1,1,2-Trichloroethane	0.1798	0.1899	-5.6	115	0.00
70	s	SURR2,BFB	0.4266	0.4798	-12.5	112	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	115	0.00
72	P	Tetrachloroethene	0.2245	0.2125	5.3	112	0.00
73	P	2-Hexanone	0.1240	0.1239	0.1	106	0.00
74		1,3-Dichloropropane	0.3549	0.3608	-1.7	114	0.00
75	P	Dibromochloromethane	0.2329	0.2246	3.6	108	0.00
76		N-Butyl Acetate	0.3484	0.3323	4.6	107	0.00
77	P	1,2-Dibromoethane	0.1942	0.1923	1.0	110	0.00
78	P	Chlorobenzene	0.7429	0.7534	-1.4	117	0.00
79		3-CBTF	0.4108	0.3685	10.3	106	0.00
80		4-CBTF	0.3714	0.3294	11.3	104	0.00
81		1,1,1,2-Tetrachloroethane	0.2649	0.2553	3.6	108	0.00
82	P	Ethylbenzene	0.4049	0.4214	-4.1	120	0.00
83	P	(m+p)Xylene	0.4887	0.5119	-4.7	119	0.00
84	P	o-Xylene	0.5001	0.5023	-0.4	115	0.00
85	P	Styrene	0.8180	0.8263	-1.0	112	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	109	0.00
87	P	Bromoform	0.2339	0.2227	4.8	100	0.00
88		2-CBTF	0.7412	0.6698	9.6	102	0.00
89	P	Isopropylbenzene	2.2537	2.4105	-7.0	117	0.00
90		Cyclohexanone	0.0218	0.0235	-7.8	128	0.00
91		trans-1,4-Dichloro-2-Butene	0.1237	0.1220	1.4	102	0.00
92	P	1,1,2,2-Tetrachloroethane	0.4129	0.4299	-4.1	113	0.00
93		Bromobenzene	0.5980	0.5857	2.1	107	0.00
94		1,2,3-Trichloropropane	0.1315	0.1320	-0.4	108	0.00
95		n-Propylbenzene	2.6270	2.8461	-8.3	116	0.00
96		2-Chlorotoluene	1.5533	1.6528	-6.4	116	0.00
97		3-Chlorotoluene	1.6008	1.6080	-0.4	111	0.00
98		4-Chlorotoluene	1.8349	1.9147	-4.3	113	0.00
99		1,3,5-Trimethylbenzene	1.8913	1.9908	-5.3	114	0.00
100		tert-Butylbenzene	1.6795	1.7172	-2.2	111	0.00
101		1,2,4-Trimethylbenzene	1.9716	2.0567	-4.3	112	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102		3,4-DCBTF	0.5761	0.5145	10.7	99	0.00
103		sec-Butylbenzene	2.3728	2.4994	-5.3	111	0.00
104		p-Isopropyltoluene	2.0687	2.1162	-2.3	111	0.00
105	P	1,3-Dclbenz	1.1497	1.1360	1.2	106	0.00
106	P	1,4-Dclbenz	1.1625	1.1284	2.9	108	0.00
107		2,4-DCBTF	0.5339	0.4560	14.6	95	0.00
108		2,5-DCBTF	0.6075	0.5100	16.0	97	0.00
109		n-Butylbenzene	1.8290	1.9115	-4.5	112	0.00
110	P	1,2-Dclbenz	1.0700	1.0457	2.3	104	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0897	0.0766	14.6	90	0.00
112		Trielution Dichlorotoluene	0.9740	0.9055	7.0	100	0.00
113		1,3,5 Trichlorobenzene	0.8526	0.7132	16.3	91	0.00
114		Coelution Dichlorotoluene	1.0523	0.9630	8.5	97	0.00
115	P	1,2,4-Tcbenzene	0.7742	0.6839	11.7	94	0.00
116		Hexachlorobt	0.3271	0.2721	16.8	94	0.00
117		Naphthalen	1.3412	1.2781	4.7	98	0.00
118		1,2,3-Tclbenzene	0.6672	0.5745	13.9	93	0.00
119		2,4,5-Trichlorotolene	0.4693	0.3509	NT 25.2#	83	0.00
120		2,3,6-Trichlorotoluene	0.4341	0.3203	NT 26.2#	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	822720	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1366313	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1315675	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	699170	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.591	113	392217	53.79	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.58%			
48) surr1,1,2-dichloroetha...	6.097	65	430056	51.92	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.84%			
65) SURR3,Toluene-d8	8.529	98	1686039	56.42	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.84%			
70) SURR2,BFB	11.047	95	655583	56.24	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 112.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	527854	59.10	ppb	99
3) Chloromethane	1.341	50	485311	63.66	ppb	98
4) Vinyl Chloride	1.427	62	362753	55.73	ppb	98
5) Bromomethane	1.683	94	188177	50.82	ppb	91
6) Chloroethane	1.762	64	186366	59.56	ppb	93
7) Freon 21	1.921	67	408689	47.42	ppb	94
8) Trichlorofluoromethane	1.975	101	393643	52.24	ppb	96
9) Diethyl Ether	2.225	59	173212	52.11	ppb	97
10) Freon 123a	2.231	67	260486	49.71	ppb	82
11) Freon 123	2.292	83	328927	48.33	ppb	94
12) Acrolein	2.335	56	122848	273.17	ppb	93
13) 1,1-Diclethene	2.426	96	327254	57.19	ppb	96
14) Freon 113	2.439	101	347364	57.26	ppb	95
15) Acetone	2.487	43	71470	53.27	ppb	94
16) 2-Propanol	2.640	45	300498	1050.16	ppb	98
17) Iodomethane	2.567	142	446053	58.01	ppb	98
18) Carbon Disulfide	2.628	76	1041467	57.83	ppb	99
19) Acetonitrile	2.750	40	64721	274.02	ppb	91
20) Allyl Chloride	2.792	76	208551	62.69	ppb	93
21) Methyl Acetate	2.823	43	173052	56.93	ppb	98
22) Methylene Chloride	2.920	84	346941	57.50	ppb	96
23) TBA	3.085	59	499174	1095.63	ppb	90
24) Acrylonitrile	3.201	53	436719	280.19	ppb	99
25) Methyl-t-Butyl Ether	3.262	73	881217	54.78	ppb	96
26) trans-1,2-Dichloroethene	3.243	96	360034	55.97	ppb	95
28) 1,1-Diclethane	3.786	63	634377	59.39	ppb	94
29) Vinyl Acetate	3.902	86	63182	65.84	ppb	98
30) DIPE	3.938	45	1141581	54.28	ppb	99
31) 2-Chloro-1,3-Butadiene	3.920	53	550390	54.41	ppb	100
32) ETBE	4.518	59	1000485	53.53	ppb	95
33) 2,2-Dichloropropane	4.700	77	536605	55.82	ppb	95
34) cis-1,2-Dichloroethene	4.713	96	382869	58.32	ppb	92
35) 2-Butanone	4.768	43	101583	55.04	ppb	93
36) Propionitrile	4.859	54	153059	279.05	ppb	97
37) Bromochloromethane	5.145	130	212261	56.61	ppb	96
38) Methacrylonitrile	5.152	67	100075	52.90	ppb	90
39) Tetrahydrofuran	5.231	42	77153	55.84	ppb	95
40) Chloroform	5.322	83	580979	55.88	ppb	98
41) 1,1,1-Trichloroethane	5.591	97	513517	53.54	ppb	95

1st 10/25/16
2nd 10/25/16

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	879906	52.07	ppb	95
44) Cyclohexane	5.670	41	387729	52.95	ppb	93
46) Carbontetrachloride	5.859	121	134992	46.92	ppb	97
47) 1,1-Dichloropropene	5.865	75	513513	55.72	ppb	98
49) Benzene	6.170	78	1396510	55.00	ppb	97
50) 1,2-Dichloroethane	6.206	62	410986	49.82	ppb	96
51) Iso-Butyl Alcohol	6.194	43	231373	1042.61	ppb	91
52) n-Heptane	6.639	43	485050	53.44	ppb	96
53) 1-Butanol	7.115	56	319982	2432.39	ppb	100
54) Trichloroethene	7.084	130	364472	50.52	ppb	96
55) Methylcyclohexane	7.310	55	467939	51.86	ppb	96
56) 1,2-Diclpropane	7.352	63	377963	56.10	ppb	96
57) Dibromomethane	7.487	93	177105	49.32	ppb	92
58) 1,4-Dioxane	7.547	88	53299m	977.15	ppb	
59) Methyl Methacrylate	7.572	69	190778	51.44	ppb	95
60) Bromodichloromethane	7.706	83	434248	49.80	ppb	99
61) 2-Nitropropane	7.980	41	107128	81.72	ppb	96
62) 2-Chloroethylvinyl Ether	8.108	63	175397	60.90	ppb	98
63) cis-1,3-Dichloropropene	8.236	75	588374	53.83	ppb	99
64) 4-Methyl-2-pentanone	8.438	43	240561	53.32	ppb	98
66) Toluene	8.602	91	1519069	53.83	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	489339	49.94	ppb	97
68) Ethyl Methacrylate	8.998	69	404645	53.33	ppb	97
69) 1,1,2-Trichloroethane	9.047	97	259399	52.78	ppb	97
72) Tetrachloroethene	9.181	164	279618	47.33	ppb	94
73) 2-Hexanone	9.328	43	163016	49.94	ppb	92
74) 1,3-Dichloropropane	9.212	76	474691	50.83	ppb	99
75) Dibromochloromethane	9.431	129	295535	48.23	ppb	96
76) N-Butyl Acetate	9.480	43	437153	47.68	ppb	92
77) 1,2-Dibromoethane	9.529	107	253060	49.52	ppb	100
78) Chlorobenzene	10.016	112	991183	50.70	ppb	98
79) 3-CBTF	10.029	180	484799	44.85	ppb	95
80) 4-CBTF	10.084	180	433347	44.34	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	335847	48.18	ppb	92
82) Ethylbenzene	10.132	106	554478	52.04	ppb	98
83) (m+p)Xylene	10.242	106	1346917	104.73	ppb	97
84) o-Xylene	10.596	106	660818	50.21	ppb	99
85) Styrene	10.608	104	1087195	50.51	ppb	98
87) Bromoform	10.760	173	155687	47.59	ppb	98
88) 2-CBTF	10.833	180	468327	45.19	ppb	97
89) Isopropylbenzene	10.925	105	1685360	53.48	ppb	99
90) Cyclohexanone	10.986	55	328537	1077.22	ppb	94
91) trans-1,4-Dichloro-2-B...	11.230	53	85284	49.30	ppb	94
92) 1,1,2,2-Tetrachloroethane	11.181	83	300581	52.06	ppb	99
93) Bromobenzene	11.169	156	409512	48.97	ppb	92
94) 1,2,3-Trichloropropane	11.211	110	92297	50.19	ppb	96
95) n-Propylbenzene	11.278	91	1989884	54.17	ppb	99
96) 2-Chlorotoluene	11.339	91	1155590	53.20	ppb	98
97) 3-Chlorotoluene	11.394	91	1124253	50.22	ppb	97
98) 4-Chlorotoluene	11.431	91	1338678	52.17	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	1391901	52.63	ppb	99
100) tert-Butylbenzene	11.699	119	1200627	51.12	ppb	99
101) 1,2,4-Trimethylbenzene	11.736	105	1437995	52.16	ppb	100
102) 3,4-DCBTF	11.797	214	359716	44.65	ppb	98
103) sec-Butylbenzene	11.882	105	1747540	52.67	ppb	99
104) p-Isopropyltoluene	12.004	119	1479573	51.15	ppb	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

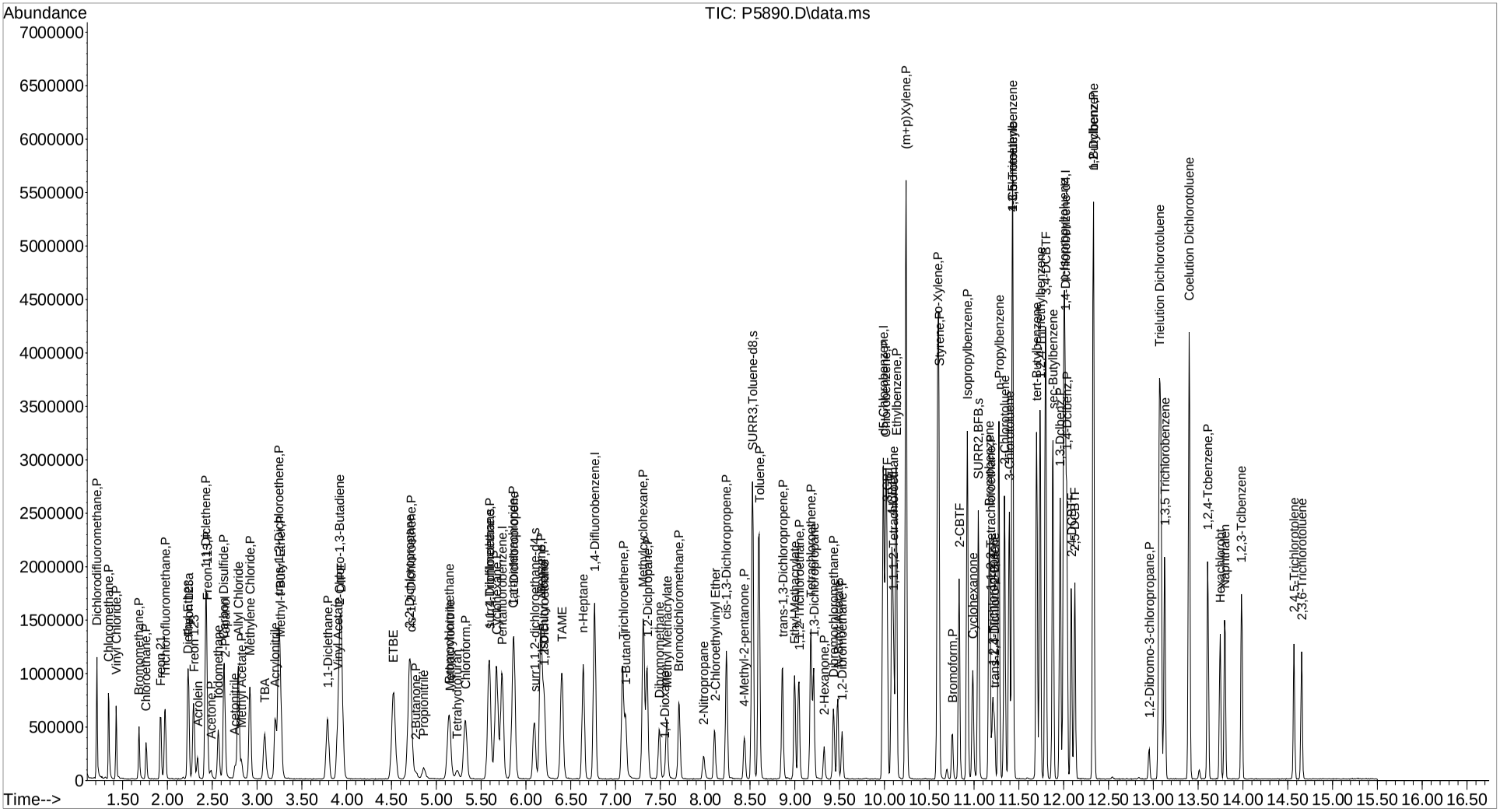
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	794282	49.41	ppb		95
106) 1,4-Dclbenz	12.034	146	788951	48.53	ppb		97
107) 2,4-DCBTF	12.083	214	318838	42.71	ppb		98
108) 2,5-DCBTF	12.126	214	356571	41.98	ppb		98
109) n-Butylbenzene	12.333	91	1336451	52.25	ppb		98
110) 1,2-Dclbenz	12.333	146	731105	48.87	ppb		98
111) 1,2-Dibromo-3-chloropr...	12.955	157	53569	42.73	ppb	#	78
112) Trielution Dichlorotol...	13.071	125	1899203	139.44	ppb		96
113) 1,3,5 Trichlorobenzene	13.126	180	498651	41.82	ppb		96
114) Coelution Dichlorotoluene	13.400	125	1346663	91.52	ppb		98
115) 1,2,4-Tcbenzene	13.607	180	478164	44.17	ppb		99
116) Hexachlorobt	13.747	225	190227	41.59	ppb		99
117) Naphthalen	13.796	128	893622	47.65	ppb		100
118) 1,2,3-Tclbenzene	13.985	180	401693	43.06	ppb		98
119) 2,4,5-Trichlorotolene	14.570	159	245308	37.38	ppb		94
120) 2,3,6-Trichlorotoluene	14.656	159	223930	36.89	ppb		92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5890.D
Acq On : 24 Oct 2016 10:13 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 24 10:34:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

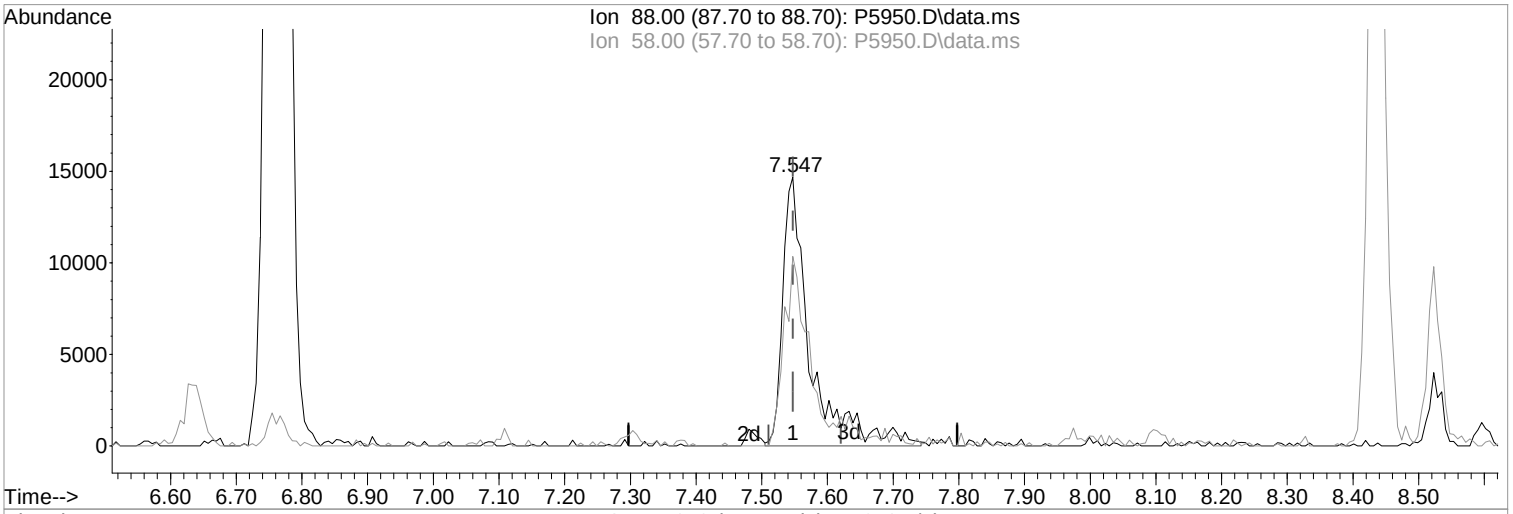


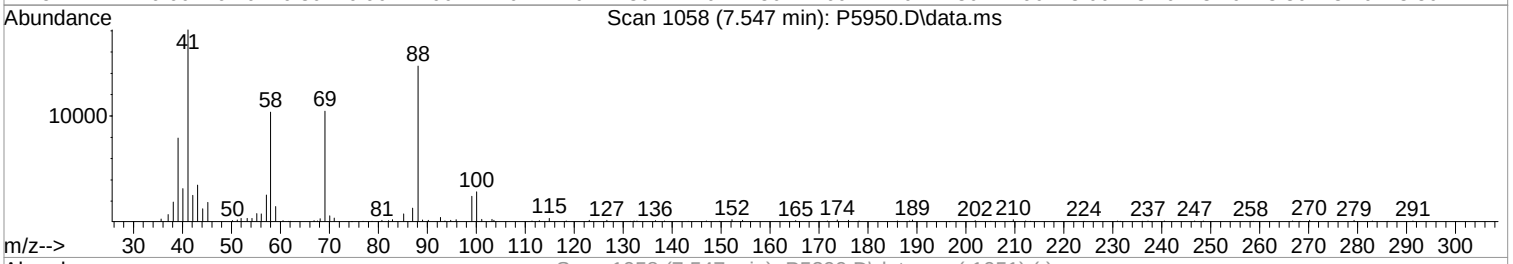
1st 10/26/16
2nd 10/27/16

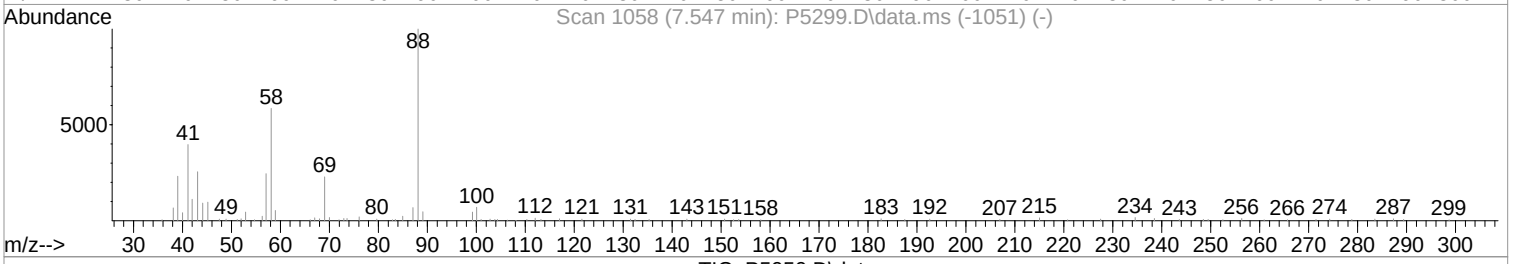
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:02:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5950.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 801.24 ppb m

response 42625

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	70.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

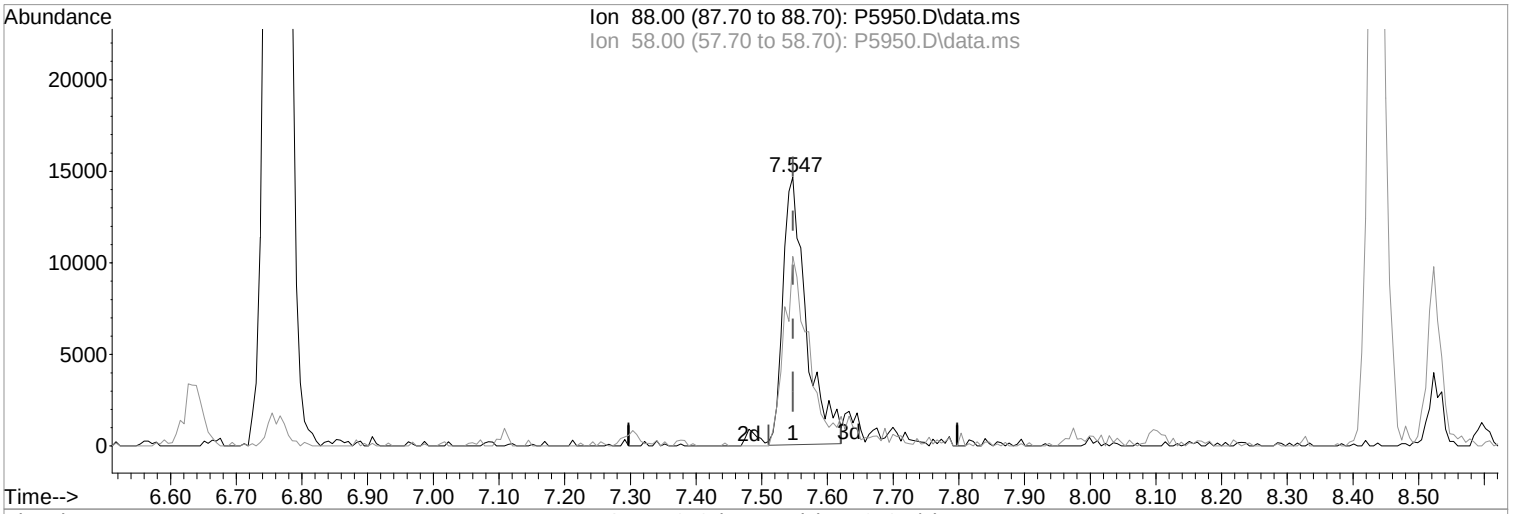
Poor integration.

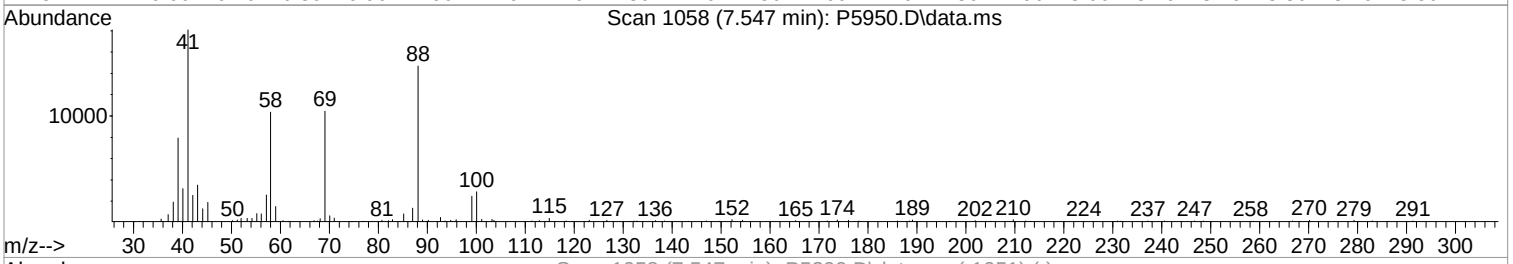
10/26/16

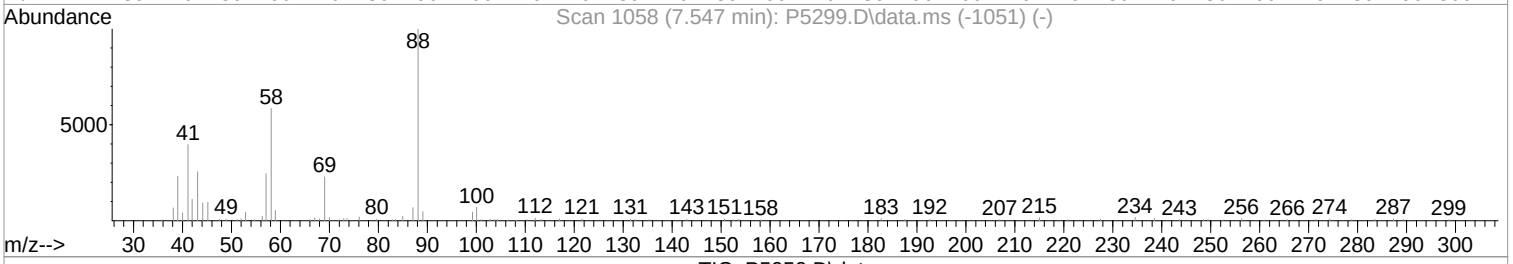
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:02:04 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5950.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 680.97 ppb

response 36227

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	70.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/16

1st 10/26/16
2nd 10/27/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	105	0.00	
2	P	Dichlorodifluoromethane	0.5428	0.4808	11.4	90	0.00	
3	P	Chloromethane	0.4633	0.4626	0.2	102	0.00	
4	P	Vinyl Chloride	0.3956	0.3614	8.6	96	0.00	
5	P	Bromomethane	0.2560	0.1761	22.7 ~~-31.2#~~	87	0.00	*
6	P	Chloroethane	0.2263	0.1934	-1.6 ~~-14.5~~	98	0.00	
7		Freon 21	0.5238	0.4821	8.0	112	0.00	
8	P	Trichlorofluoromethane	0.4579	0.3743	18.3	85	0.00	
9		Diethyl Ether	0.2020	0.1809	10.4	93	0.00	
10		Freon 123a	0.3185	0.2898	9.0	111	0.00	
11		Freon 123	0.4136	0.3633	12.2	112	0.00	
12		Acrolein	0.0273	0.0350	-28.2#	129	0.00	*
13	P	1,1-Diclethene	0.3478	0.3244	6.7	102	0.00	
14	P	Freon 113	0.3687	0.3260	11.6	95	0.00	
15	P	Acetone	0.0815	0.0841	-3.2	108	0.00	
16		2-Propanol	0.0174	0.0150	13.8	86	0.00	
17		Iodomethane	0.4673	0.3721	20.4#	71	0.00	*
18	P	Carbon Disulfide	1.0945	1.2076	-10.3	116	0.00	
19		Acetonitrile	0.0144	0.0117	18.7	84	0.00	
20		Allyl Chloride	0.2022	0.2204	-9.0	111	0.00	
21	P	Methyl Acetate	0.1847	0.1892	-2.4	103	0.00	
22	P	Methylene Chloride	0.3667	0.3742	-2.0	109	0.00	
23		TBA	0.0277	0.0232	16.2	83	0.00	
24		Acrylonitrile	0.0947	0.0942	0.5	103	0.00	
25	P	Methyl-t-Butyl Ether	0.9776	0.9071	7.2	95	0.00	
26	P	trans-1,2-Dichloroethene	0.3909	0.3646	6.7	103	0.00	
27		Halothane	0.0000	0.0000	0.0	0#	-4.14#	
28	P	1,1-Diclethane	0.6491	0.6414	1.2	105	0.00	
29		Vinyl Acetate	0.0583	0.0782	-34.1#	129	-0.01	*
30		DIPE	1.2782	1.3933	-9.0	112	-0.01	
31		2-Chloro-1,3-Butadiene	0.6147	0.6339	-3.1	109	0.00	
32		ETBE	1.1360	1.2061	-6.2	106	0.00	
33		2,2-Dichloropropane	0.5843	0.5360	8.3	99	0.00	
34	P	cis-1,2-Dichloroethene	0.3990	0.4028	-1.0	106	0.00	
35	P	2-Butanone	0.1122	0.1128	-0.5	101	-0.01	
36		Propionitrile	0.0333	0.0309	7.2	94	-0.02	
37		Bromochloromethane	0.2279	0.2268	0.5	102	0.00	
38		Methacrylonitrile	0.1150	0.1037	9.8	96	-0.01	
39		Tetrahydrofuran	0.0840	0.0749	10.8	100	0.00	
40	P	Chloroform	0.6319	0.6093	3.6	103	-0.01	
41	P	1,1,1-Trichloroethane	0.5829	0.5075	12.9	96	0.00	
42		TAME	1.0270	1.0533	-2.6	103	0.00	
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	109	0.00	
44	P	Cyclohexane	0.2680	0.2514	6.2	116	0.00	
45	s	surr4,Dibrflmethane	0.2669	0.2941	-10.2	108	0.00	
46	P	Carbontetrachloride	0.1053	0.0816	22.5#	89	0.00	*
47		1,1-Dichloropropene	0.3373	0.3116	7.6	100	0.00	
48	s	surr1,1,2-dichloroethane-d4	0.3031	0.3121	-3.0	103	0.00	
49	P	Benzene	0.9292	0.9097	2.1	109	0.00	
50	P	1,2-Dichloroethane	0.3019	0.2767	8.3	99	0.00	
51		Iso-Butyl Alcohol	0.0081	0.0067	17.3	85	-0.01	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
52		n-Heptane	0.3322	0.2847		14.3	94	0.00
53		1-Butanol	0.0048	0.0048		0.0	99	-0.01
54	P	Trichloroethene	0.2640	0.2331		11.7	98	0.00
55	P	Methylcyclohexane	0.3302	0.3194		3.3	121	0.00
56	P	1,2-Diclpropane	0.2466	0.2414		2.1	106	0.00
57		Dibromomethane	0.1314	0.1140		13.2	97	0.00
58		1,4-Dioxane	0.0020	0.0016		20.0	90	0.00
59		Methyl Methacrylate	0.1357	0.1189		12.4	95	0.00
60	P	Bromodichloromethane	0.3191	0.2875		9.9	100	0.00
61		2-Nitropropane	0.0480	0.0327	NT	31.9#	74	0.00
62		2-Chloroethylvinyl Ether	0.1054	0.1249		-18.5	124	0.00
63	P	cis-1,3-Dichloropropene	0.4000	0.3826		4.4	102	0.00
64	P	4-Methyl-2-pentanone	0.1651	0.1604		2.8	100	0.00
65	s	SURR3,Toluene-d8	1.0935	1.2535		-14.6	112	0.00
66	P	Toluene	1.0327	0.9876		4.4	104	0.00
67	P	trans-1,3-Dichloropropene	0.3586	0.3199		10.8	98	0.00
68		Ethyl Methacrylate	0.2776	0.2559		7.8	96	0.00
69	P	1,1,2-Trichloroethane	0.1798	0.1690		6.0	100	0.00
70	s	SURR2,BFB	0.4266	0.4581		-7.4	105	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000		0.0	107	0.00
72	P	Tetrachloroethene	0.2245	0.1856#		17.3	92	0.00
73	P	2-Hexanone	0.1240	0.1282		-3.4	103	0.00
74		1,3-Dichloropropane	0.3549	0.3544		0.1	104	0.00
75	P	Dibromochloromethane	0.2329	0.2089		10.3	94	0.00
76		N-Butyl Acetate	0.3484	0.3172		9.0	96	0.00
77	P	1,2-Dibromoethane	0.1942	0.1801		7.3	96	0.00
78	P	Chlorobenzene	0.7429	0.7169		3.5	104	0.00
79		3-CBTF	0.4108	0.4056		1.3	109	0.00
80		4-CBTF	0.3714	0.3783		-1.9	112	0.00
81		1,1,1,2-Tetrachloroethane	0.2649	0.2480		6.4	98	0.00
82	P	Ethylbenzene	0.4049	0.3884		4.1	104	0.00
83	P	(m+p)Xylene	0.4887	0.4642		5.0	101	0.00
84	P	o-Xylene	0.5001	0.4738		5.3	102	0.00
85	P	Styrene	0.8180	0.7823		4.4	99	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000		0.0	99	0.00
87	P	Bromoform	0.2339	0.2082		11.0	85	0.00
88		2-CBTF	0.7412	0.7997		-7.9	111	0.00
89	P	Isopropylbenzene	2.2537	2.2245		1.3	98	0.00
90		Cyclohexanone	0.0218	0.0372	NT	-70.6#	184	0.00
91		trans-1,4-Dichloro-2-Butene	0.1237	0.1204		2.7	92	0.00
92	P	1,1,2,2-Tetrachloroethane	0.4129	0.4151		-0.5	99	0.00
93		Bromobenzene	0.5980	0.5711		4.5	95	0.00
94		1,2,3-Trichloropropane	0.1315	0.1255		4.6	93	0.00
95		n-Propylbenzene	2.6270	2.6511		-0.9	98	0.00
96		2-Chlorotoluene	1.5533	1.5804		-1.7	101	0.00
97		3-Chlorotoluene	1.6008	1.9347	NT	-20.9#	121	0.00
98		4-Chlorotoluene	1.8349	1.8308		0.2	98	0.00
99		1,3,5-Trimethylbenzene	1.8913	1.8858		0.3	98	0.00
100		tert-Butylbenzene	1.6795	1.5967		4.9	94	0.00
101		1,2,4-Trimethylbenzene	1.9716	1.9815		-0.5	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102		3,4-DCBTF	0.5761	0.5939	-3.1	104	0.00
103		sec-Butylbenzene	2.3728	2.3494	1.0	95	0.00
104		p-Isopropyltoluene	2.0687	1.9776	4.4	94	0.00
105	P	1,3-Dclbenz	1.1497	1.0814	5.9	91	0.00
106	P	1,4-Dclbenz	1.1625	1.0894	6.3	94	0.00
107		2,4-DCBTF	0.5339	0.5572	-4.4	105	0.00
108		2,5-DCBTF	0.6075	0.5999	1.3	104	0.00
109		n-Butylbenzene	1.8290	1.8034	1.4	96	0.00
110	P	1,2-Dclbenz	1.0700	1.0494	1.9	95	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0897	0.0784	12.6	83	0.00
112		Trielution Dichlorotoluene	0.9740	1.1089	-13.9	111	0.00
113		1,3,5 Trichlorobenzene	0.8526	0.9002	-5.6	104	0.00
114		Coelution Dichlorotoluene	1.0523	1.2120	-15.2	111	0.00
115	P	1,2,4-Tcbenzene	0.7742	0.6736	13.0	84	0.00
116		Hexachlorobt	0.3271	0.2567	21.5#	80	0.00
117		Naphthalen	1.3412	1.1878	11.4	83	0.00
118		1,2,3-Tclbenzene	0.6672	0.5481	17.9	80	0.00
119		2,4,5-Trichlorotolene	0.4693	0.4364	7.0	94	0.00
120		2,3,6-Trichlorotoluene	0.4341	0.3824	11.9	91	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	823472	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1332583	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1231338	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	634676	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	391881	55.10	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.20%				
48) surr1,1,2-dichloroetha...	6.090	65	415947	51.48	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.96%				
65) SURR3,Toluene-d8	8.529	98	1670428	57.32	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.64%				
70) SURR2,BFB	11.047	95	610466	53.69	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	395904	44.28	ppb		97
3) Chloromethane	1.341	50	380932	49.92	ppb		96
4) Vinyl Chloride	1.427	62	297634	45.68	ppb		96
5) Bromomethane	1.683	94	144988	38.65	ppb		98
6) Chloroethane	1.762	64	159262	50.78	ppb		93
7) Freon 21	1.920	67	396969	46.02	ppb		98
8) Trichlorofluoromethane	1.969	101	308218	40.87	ppb		100
9) Diethyl Ether	2.225	59	148976	44.78	ppb		96
10) Freon 123a	2.231	67	238668	45.50	ppb		85
11) Freon 123	2.286	83	299139	43.91	ppb		94
12) Acrolein	2.335	56	144211	320.38	ppb		99
13) 1,1-Diclethene	2.426	96	267122	46.64	ppb		97
14) Freon 113	2.433	101	268441	44.21	ppb		97
15) Acetone	2.475	43	69266	51.58	ppb		93
16) 2-Propanol	2.634	45	247477	864.08	ppb		97
17) Iodomethane	2.567	142	306455	39.82	ppb		100
18) Carbon Disulfide	2.628	76	994391	55.17	ppb		99
19) Acetonitrile	2.750	40	48368	204.60	ppb		89
20) Allyl Chloride	2.786	76	181520	54.51	ppb	#	90
21) Methyl Acetate	2.823	43	155806	51.21	ppb		95
22) Methylene Chloride	2.914	84	308152	51.03	ppb		94
23) TBA	3.079	59	382388	838.53	ppb		96
24) Acrylonitrile	3.201	53	387781	248.56	ppb		94
25) Methyl-t-Butyl Ether	3.256	73	746978	46.39	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	300208	46.63	ppb		91
28) 1,1-Diclethane	3.780	63	528212	49.41	ppb		98
29) Vinyl Acetate	3.890	86	64392	67.04	ppb	#	89
30) DIPE	3.932	45	1147379	54.50	ppb		99
31) 2-Chloro-1,3-Butadiene	3.920	53	521982	51.56	ppb		95
32) ETBE	4.518	59	993201	53.09	ppb		99
33) 2,2-Dichloropropane	4.700	77	441395	45.87	ppb		94
34) cis-1,2-Dichloroethene	4.707	96	331669	50.47	ppb		94
35) 2-Butanone	4.761	43	92927	50.31	ppb		91
36) Propionitrile	4.847	54	127234	231.75	ppb		88
37) Bromochloromethane	5.133	130	186756	49.76	ppb		95
38) Methacrylonitrile	5.139	67	85392	45.09	ppb		95
39) Tetrahydrofuran	5.231	42	61679	44.60	ppb		88
40) Chloroform	5.316	83	501728	48.21	ppb		97
41) 1,1,1-Trichloroethane	5.590	97	417896	43.53	ppb		96

1st 10/26/16
2nd 10/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	867333	51.28	ppb	98
44) Cyclohexane	5.670	41	335069	46.92	ppb	96
46) Carbontetrachloride	5.853	121	108703	38.74	ppb	92
47) 1,1-Dichloropropene	5.865	75	415271	46.20	ppb	95
49) Benzene	6.164	78	1212201	48.95	ppb	95
50) 1,2-Dichloroethane	6.206	62	368730	45.83	ppb	97
51) Iso-Butyl Alcohol	6.194	43	177868	821.79	ppb	80
52) n-Heptane	6.639	43	379435	42.86	ppb	93
53) 1-Butanol	7.108	56	317747	2476.54	ppb	97
54) Trichloroethene	7.078	130	310677	44.15	ppb	95
55) Methylcyclohexane	7.310	55	425673	48.37	ppb	97
56) 1,2-Diclpropane	7.346	63	321621	48.94	ppb	98
57) Dibromomethane	7.486	93	151867	43.36	ppb	97
58) 1,4-Dioxane	7.547	88	42625m	801.24	ppb	
59) Methyl Methacrylate	7.572	69	158489	43.81	ppb	96
60) Bromodichloromethane	7.706	83	383063	45.04	ppb	98
61) 2-Nitropropane	7.980	41	87087	68.11	ppb	91
62) 2-Chloroethylvinyl Ether	8.102	63	166376	59.23	ppb	100
63) cis-1,3-Dichloropropene	8.236	75	509827	47.83	ppb	99
64) 4-Methyl-2-pentanone	8.431	43	213745	48.58	ppb	98
66) Toluene	8.596	91	1315995	47.82	ppb	99
67) trans-1,3-Dichloropropene	8.858	75	426358	44.61	ppb	95
68) Ethyl Methacrylate	8.998	69	341043	46.09	ppb	94
69) 1,1,2-Trichloroethane	9.047	97	225176	46.98	ppb	96
72) Tetrachloroethene	9.181	164	228593	41.35	ppb	97
73) 2-Hexanone	9.328	43	157833	51.67	ppb	94
74) 1,3-Dichloropropane	9.206	76	436331	49.92	ppb	98
75) Dibromochloromethane	9.431	129	257174	44.84	ppb	94
76) N-Butyl Acetate	9.474	43	390639	45.53	ppb	97
77) 1,2-Dibromoethane	9.529	107	221770	46.37	ppb	96
78) Chlorobenzene	10.010	112	882713	48.25	ppb	97
79) 3-CBTF	10.029	180	499412	49.37	ppb	96
80) 4-CBTF	10.084	180	465874	50.93	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.102	131	305397	46.81	ppb	91
82) Ethylbenzene	10.132	106	478289	47.96	ppb	93
83) (m+p)Xylene	10.242	106	1143140	94.97	ppb	99
84) o-Xylene	10.596	106	583388	47.37	ppb	97
85) Styrene	10.608	104	963318	47.82	ppb	98
87) Bromoform	10.754	173	132146	44.50	ppb	96
88) 2-CBTF	10.833	180	507526	53.95	ppb	97
89) Isopropylbenzene	10.925	105	1411848	49.35	ppb	99
90) Cyclohexanone	10.986	55	472026	1704.97	ppb	94
91) trans-1,4-Dichloro-2-B...	11.230	53	76415	48.67	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.181	83	263452	50.26	ppb	92
93) Bromobenzene	11.169	156	362483	47.75	ppb	92
94) 1,2,3-Trichloropropane	11.211	110	79624	47.70	ppb	94
95) n-Propylbenzene	11.278	91	1682576	50.46	ppb	99
96) 2-Chlorotoluene	11.339	91	1003067	50.87	ppb	98
97) 3-Chlorotoluene	11.394	91	1227877	60.43	ppb	98
98) 4-Chlorotoluene	11.431	91	1161975	49.89	ppb	98
99) 1,3,5-Trimethylbenzene	11.425	105	1196841	49.85	ppb	98
100) tert-Butylbenzene	11.699	119	1013389	47.53	ppb	99
101) 1,2,4-Trimethylbenzene	11.736	105	1257599	50.25	ppb	99
102) 3,4-DCBTF	11.797	214	376949	51.55	ppb	98
103) sec-Butylbenzene	11.882	105	1491103	49.51	ppb	97
104) p-Isopropyltoluene	11.998	119	1255146	47.80	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

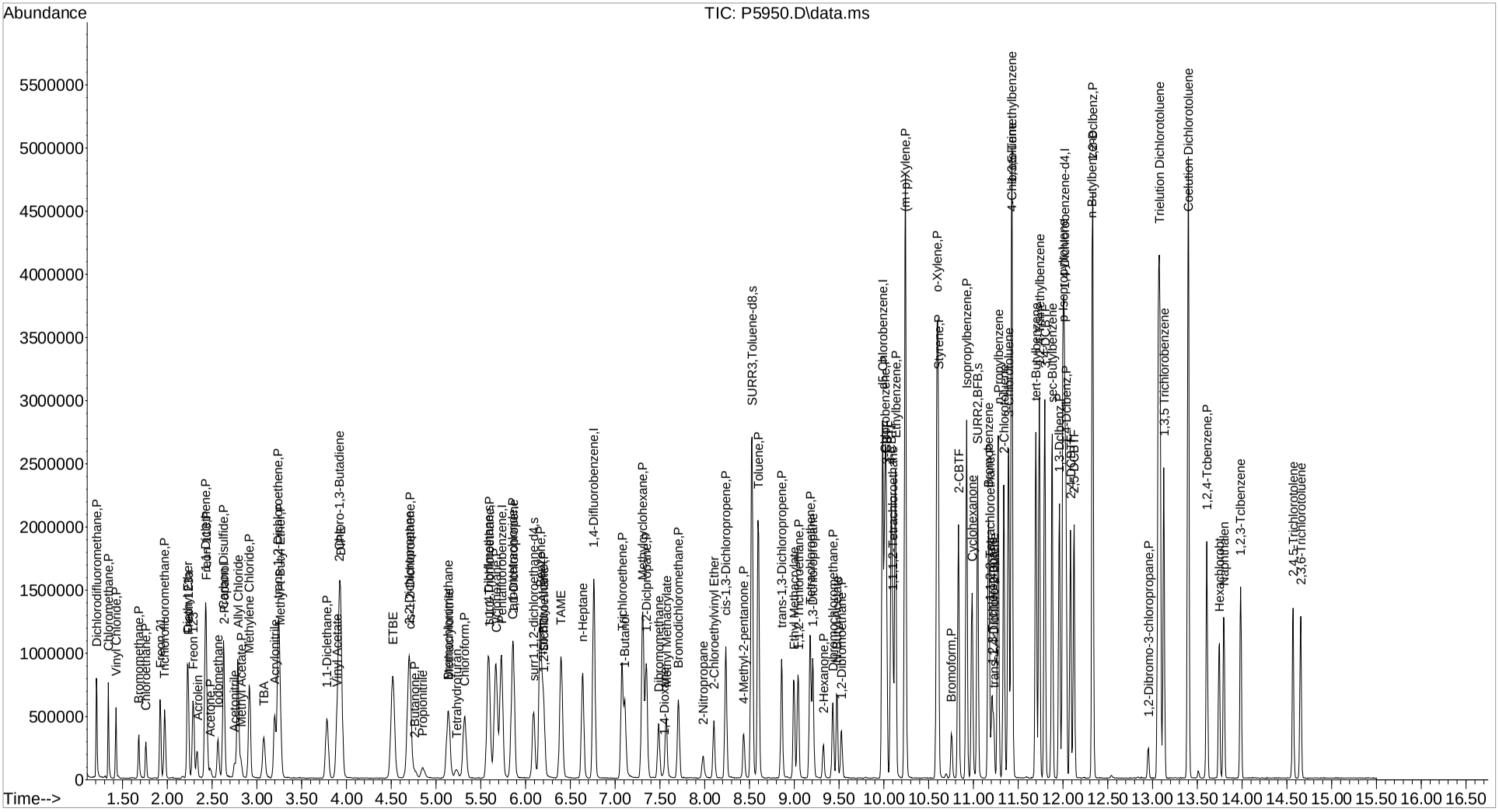
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	686341	47.03	ppb	97
106) 1,4-Dclbenz	12.034	146	691410	46.85	ppb	98
107) 2,4-DCBTF	12.083	214	353642	52.18	ppb	97
108) 2,5-DCBTF	12.126	214	380729	49.38	ppb	97
109) n-Butylbenzene	12.327	91	1144581	49.30	ppb	97
110) 1,2-Dclbenz	12.333	146	665999	49.04	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.955	157	49770	43.73	ppb	97
112) Trielution Dichlorotol...	13.077	125	2111357	170.77	ppb	97
113) 1,3,5 Trichlorobenzene	13.126	180	571314	52.79	ppb	96
114) Coelution Dichlorotoluene	13.400	125	1538437	115.18	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	427540	43.50	ppb	98
116) Hexachlorobt	13.747	225	162945	39.25	ppb	99
117) Naphthalen	13.796	128	753859	44.28	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	347895	41.08	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	276953	46.49	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	242715	44.04	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5950.D
Acq On : 26 Oct 2016 8:42 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:09:06 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



1st 10/26/16
2nd 10/27/16

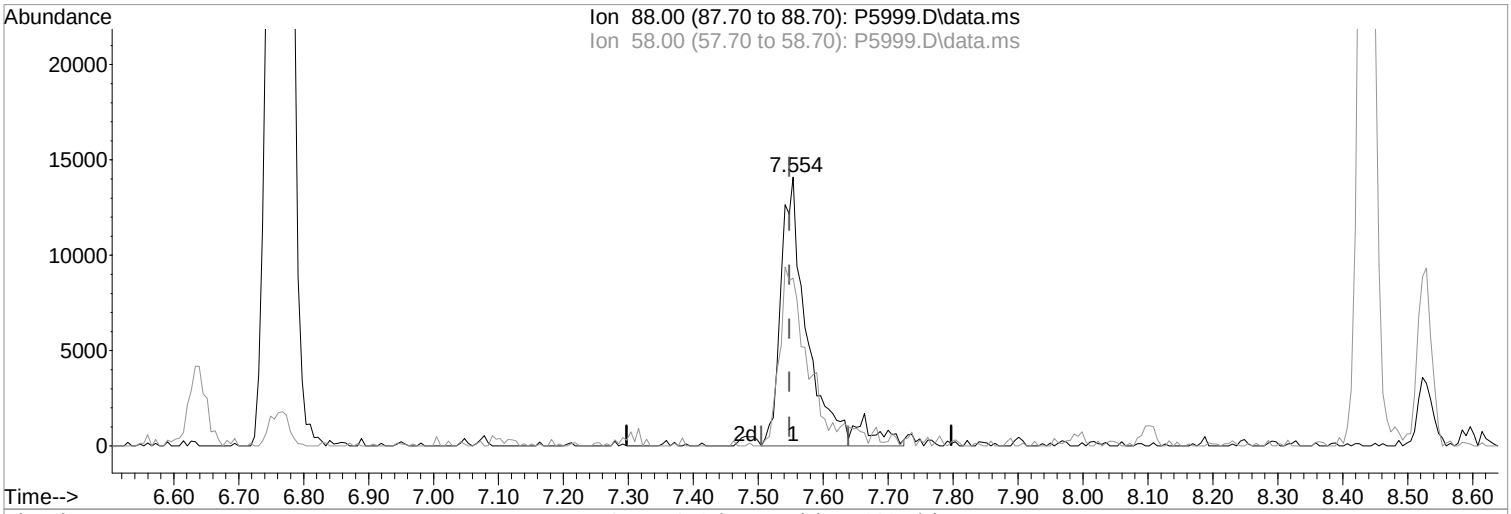
Page 920 of 1151

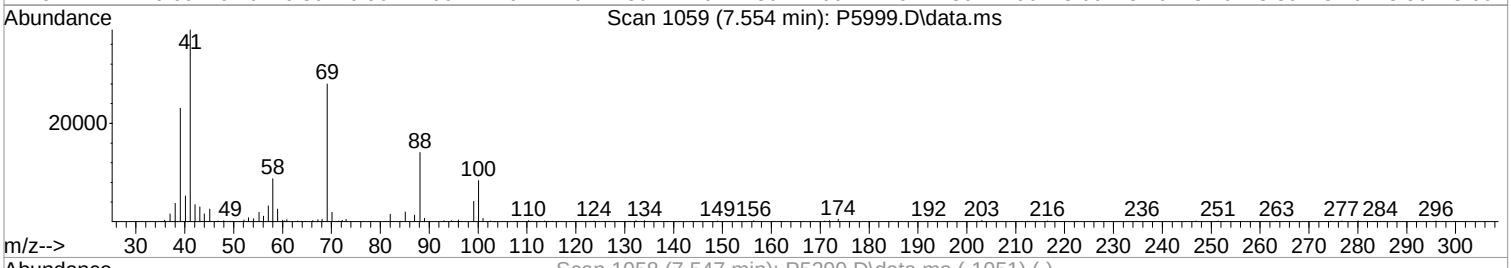
1st 10/27/16
2nd 10/31/16

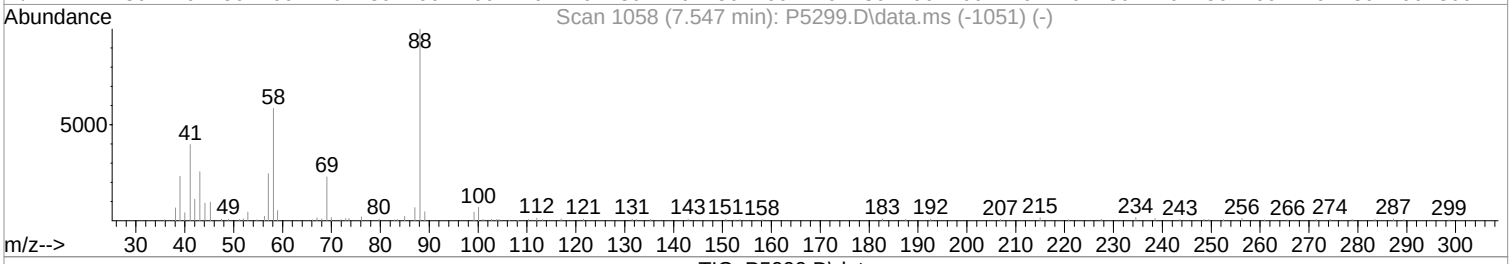
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:08:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5999.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 797.34 ppb m

response 41874

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	62.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

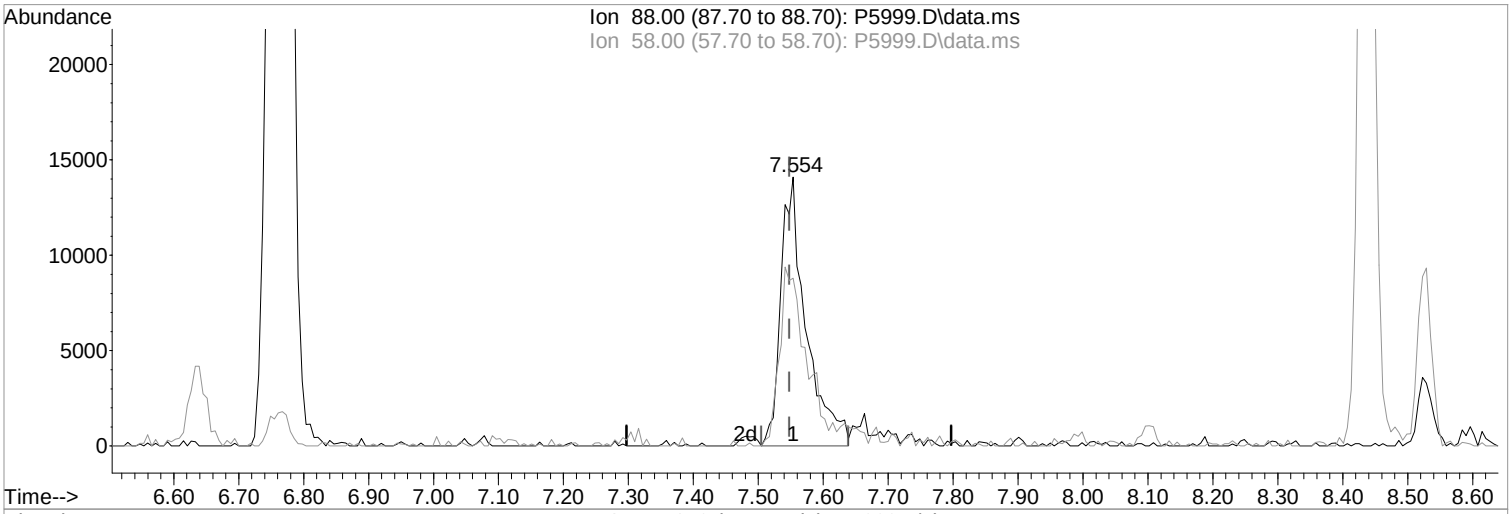
10/27/16

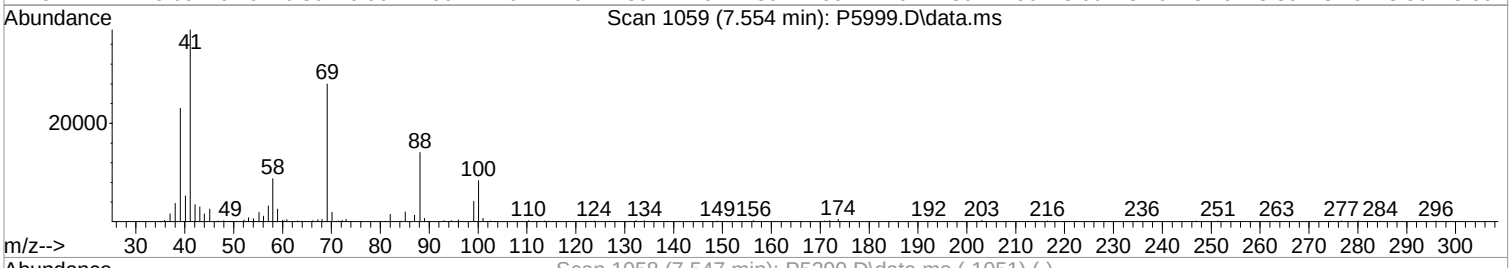
1st 10/27/16
2nd 10/31/16

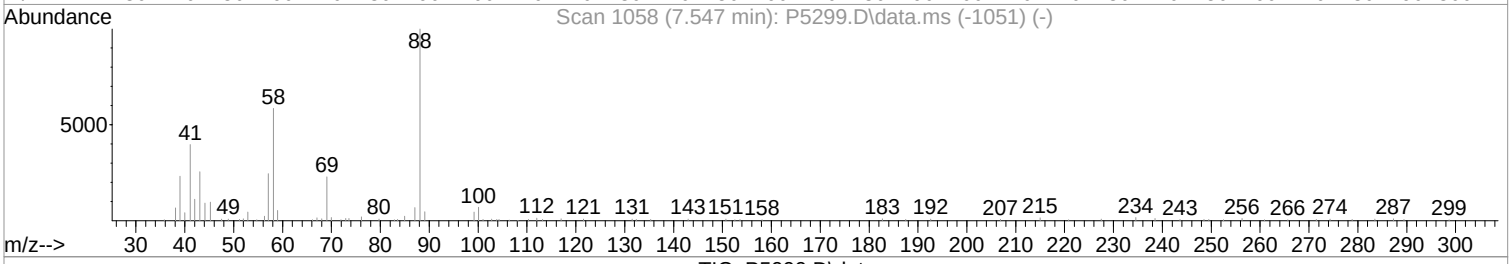
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:08:43 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5999.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.006) 726.01 ppb

response 38128

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	62.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/27/16

1st 10/27/16
2nd 10/31/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.0000	1.0000		0.0	104	0.00
2	P	Dichlorodifluoromethane	0.5428	0.5263		3.0	98	0.00
3	P	Chloromethane	0.4633	0.5180		-11.8	114	0.00
4	P	Vinyl Chloride	0.3956	0.3701		6.4	98	0.00
5	P	Bromomethane	0.2560	0.2106	6.8	~~-17.7~~	103	0.00
6	P	Chloroethane	0.2263	0.1888	0.9	~~-16.6~~	95	0.00
7		Freon 21	0.5238	0.4726		9.8	109	0.00
8	P	Trichlorofluoromethane	0.4579	0.4027		12.1	91	0.00
9		Diethyl Ether	0.2020	0.1754		13.2	89	0.00
10		Freon 123a	0.3185	0.2870		9.9	109	0.00
11		Freon 123	0.4136	0.3733		9.7	114	0.00
12		Acrolein	0.0273	0.0357	NT	-30.8#	131	0.00
13	P	1,1-Diclethene	0.3478	0.3506		-0.8	110	0.00
14	P	Freon 113	0.3687	0.3612		2.0	104	0.00
15	P	Acetone	0.0815	0.0729		10.6	94	0.00
16		2-Propanol	0.0174	0.0148		14.9	84	0.00
17		Iodomethane	0.4673	0.1821	NT	61.0#	35#	0.00
18	P	Carbon Disulfide	1.0945	1.1331		-3.5	108	0.00
19		Acetonitrile	0.0144	0.0140		2.8	100	0.00
20		Allyl Chloride	0.2022	0.2308		-14.1	116	0.00
21	P	Methyl Acetate	0.1847	0.1908		-3.3	104	0.00
22	P	Methylene Chloride	0.3667	0.3755		-2.4	109	0.00
23		TBA	0.0277	0.0238		14.1	85	0.00
24		Acrylonitrile	0.0947	0.0908		4.1	99	0.00
25	P	Methyl-t-Butyl Ether	0.9776	0.9412		3.7	98	0.00
26	P	trans-1,2-Dichloroethene	0.3909	0.3840		1.8	108	0.00
27		Halothane	0.0000	0.0000		0.0	80	-0.05
28	P	1,1-Diclethane	0.6491	0.6791		-4.6	111	0.00
29		Vinyl Acetate	0.0583	0.0734	NT	-25.9#	120	0.00
30		DIPE	1.2782	1.3755		-7.6	110	0.00
31		2-Chloro-1,3-Butadiene	0.6147	0.6175		-0.5	106	0.00
32		ETBE	1.1360	1.1846		-4.3	104	0.00
33		2,2-Dichloropropane	0.5843	0.5825		0.3	108	0.00
34	P	cis-1,2-Dichloroethene	0.3990	0.4159		-4.2	109	-0.01
35	P	2-Butanone	0.1122	0.1181		-5.3	105	0.00
36		Propionitrile	0.0333	0.0318		4.5	97	0.00
37		Bromochloromethane	0.2279	0.2356		-3.4	105	0.00
38		Methacrylonitrile	0.1150	0.1044		9.2	96	0.00
39		Tetrahydrofuran	0.0840	0.0724		13.8	96	0.00
40	P	Chloroform	0.6319	0.6462		-2.3	109	0.00
41	P	1,1,1-Trichloroethane	0.5829	0.5516		5.4	103	0.00
42		TAME	1.0270	1.0455		-1.8	102	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000		0.0	108	0.00
44	P	Cyclohexane	0.2680	0.2722		-1.6	124	0.00
45	s	surr4,Dibrflmethane	0.2669	0.2877		-7.8	104	0.00
46	P	Carbontetrachloride	0.1053	0.0912		13.4	98	0.00
47		1,1-Dichloropropene	0.3373	0.3426		-1.6	108	0.00
48	s	surr1,1,2-dichloroethane-d4	0.3031	0.3169		-4.6	104	0.00
49	P	Benzene	0.9292	0.9613		-3.5	114	0.00
50	P	1,2-Dichloroethane	0.3019	0.2762		8.5	97	0.00
51		Iso-Butyl Alcohol	0.0081	0.0071		12.3	89	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
52		n-Heptane	0.3322	0.3259		1.9	107	0.00
53		1-Butanol	0.0048	0.0041		14.6	85	-0.01
54	P	Trichloroethene	0.2640	0.2530		4.2	105	0.00
55	P	Methylcyclohexane	0.3302	0.3360		-1.8	126	0.00
56	P	1,2-Diclpropane	0.2466	0.2525		-2.4	109	0.00
57		Dibromomethane	0.1314	0.1163		11.5	98	0.00
58		1,4-Dioxane	0.0020	0.0016		20.0	88	0.00
59		Methyl Methacrylate	0.1357	0.1235		9.0	97	0.00
60	P	Bromodichloromethane	0.3191	0.3023		5.3	104	0.00
61		2-Nitropropane	0.0480	0.0321	NT	33.1#	71	0.00
62		2-Chloroethylvinyl Ether	0.1054	0.1284	NT	-21.8#	126	0.00
63	P	cis-1,3-Dichloropropene	0.4000	0.3986		0.4	105	0.00
64	P	4-Methyl-2-pentanone	0.1651	0.1716		-3.9	105	0.00
65	s	SURR3,Toluene-d8	1.0935	1.2473		-14.1	110	0.00
66	P	Toluene	1.0327	1.0540		-2.1	109	0.00
67	P	trans-1,3-Dichloropropene	0.3586	0.3241		9.6	98	0.00
68		Ethyl Methacrylate	0.2776	0.2647		4.6	98	0.00
69	P	1,1,2-Trichloroethane	0.1798	0.1702		5.3	99	0.00
70	s	SURR2,BFB	0.4266	0.4428		-3.8	100	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000		0.0	105	0.00
72	P	Tetrachloroethene	0.2245	0.2114		5.8	102	0.00
73	P	2-Hexanone	0.1240	0.1255		-1.2	99	0.00
74		1,3-Dichloropropane	0.3549	0.3560		-0.3	103	0.00
75	P	Dibromochloromethane	0.2329	0.2165		7.0	95	0.00
76		N-Butyl Acetate	0.3484	0.3317		4.8	98	0.00
77	P	1,2-Dibromoethane	0.1942	0.1845		5.0	96	0.00
78	P	Chlorobenzene	0.7429	0.7381		0.6	105	0.00
79		3-CBTF	0.4108	0.3991		2.8	105	0.00
80		4-CBTF	0.3714	0.3727		-0.4	108	0.00
81		1,1,1,2-Tetrachloroethane	0.2649	0.2491		6.0	97	0.00
82	P	Ethylbenzene	0.4049	0.4104		-1.4	107	0.00
83	P	(m+p)Xylene	0.4887	0.5022		-2.8	107	0.00
84	P	o-Xylene	0.5001	0.4940		1.2	104	0.00
85	P	Styrene	0.8180	0.8224		-0.5	102	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000		0.0	96	0.00
87	P	Bromoform	0.2339	0.2079		11.1	82	0.00
88		2-CBTF	0.7412	0.7588		-2.4	102	0.00
89	P	Isopropylbenzene	2.2537	2.4768		-9.9	106	0.00
90		Cyclohexanone	0.0218	0.0418	NT	-91.7#	201#	0.00
91		trans-1,4-Dichloro-2-Butene	0.1237	0.0985	NT	20.4#	73	0.00
92	P	1,1,2,2-Tetrachloroethane	0.4129	0.4239		-2.7	98	0.00
93		Bromobenzene	0.5980	0.5994		-0.2	96	0.00
94		1,2,3-Trichloropropane	0.1315	0.1293		1.7	93	0.00
95		n-Propylbenzene	2.6270	2.8976		-10.3	104	0.00
96		2-Chlorotoluene	1.5533	1.6976		-9.3	105	0.00
97		3-Chlorotoluene	1.6008	1.7947		-12.1	109	0.00
98		4-Chlorotoluene	1.8349	1.9426		-5.9	101	0.00
99		1,3,5-Trimethylbenzene	1.8913	2.0101		-6.3	101	0.00
100		tert-Butylbenzene	1.6795	1.7979		-7.0	103	0.00
101		1,2,4-Trimethylbenzene	1.9716	2.1023		-6.6	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102		3,4-DCBTF	0.5761	0.5660	1.8	96	0.00
103		sec-Butylbenzene	2.3728	2.5772	-8.6	101	0.00
104		p-Isopropyltoluene	2.0687	2.1802	-5.4	100	0.00
105	P	1,3-Dclbenz	1.1497	1.1693	-1.7	96	0.00
106	P	1,4-Dclbenz	1.1625	1.1445	1.5	96	0.00
107		2,4-DCBTF	0.5339	0.5249	1.7	96	0.00
108		2,5-DCBTF	0.6075	0.5645	7.1	95	0.00
109		n-Butylbenzene	1.8290	1.9756	-8.0	102	0.00
110	P	1,2-Dclbenz	1.0700	1.0663	0.3	94	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0897	0.0734	18.2	76	0.00
112		Trielution Dichlorotoluene	0.9740	1.0015	-2.8	97	0.00
113		1,3,5 Trichlorobenzene	0.8526	0.8144	4.5	92	0.00
114		Coelution Dichlorotoluene	1.0523	1.0715	-1.8	95	0.00
115	P	1,2,4-Tcbenzene	0.7742	0.6956	10.2	84	0.00
116		Hexachlorobt	0.3271	0.2724	16.7	83	0.00
117		Naphthalen	1.3412	1.2519	6.7	85	0.00
118		1,2,3-Tclbenzene	0.6672	0.5721	14.3	81	0.00
119		2,4,5-Trichlorotolene	0.4693	0.3927	16.3	82	0.00
120		2,3,6-Trichlorotoluene	0.4341	0.3443	20.7#	79	0.00

NT

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	820242	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1315496	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1206251	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	615722	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	378486	53.91	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.82%				
48) surr1,1,2-dichloroetha...	6.090	65	416916	52.27	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.54%				
65) SURR3,Toluene-d8	8.529	98	1640881	57.03	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 114.06%				
70) SURR2,BFB	11.047	95	582489	51.90	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	431679	48.48	ppb		97
3) Chloromethane	1.341	50	424909	55.90	ppb		96
4) Vinyl Chloride	1.427	62	303568	46.78	ppb		100
5) Bromomethane	1.683	94	172747	46.60	ppb		96
6) Chloroethane	1.762	64	154882	49.57	ppb		97
7) Freon 21	1.920	67	387665	45.12	ppb		96
8) Trichlorofluoromethane	1.969	101	330290	43.97	ppb		98
9) Diethyl Ether	2.225	59	143837	43.41	ppb		96
10) Freon 123a	2.231	67	235420	45.06	ppb		91
11) Freon 123	2.286	83	306173	45.12	ppb		97
12) Acrolein	2.335	56	146376	326.47	ppb		100
13) 1,1-Diclethene	2.426	96	287551	50.40	ppb		95
14) Freon 113	2.433	101	296238	48.98	ppb		94
15) Acetone	2.481	43	59781	44.69	ppb		95
16) 2-Propanol	2.634	45	242795	851.07	ppb		95
17) Iodomethane	2.567	142	149332	19.48	ppb		95
18) Carbon Disulfide	2.628	76	929379	51.76	ppb		100
19) Acetonitrile	2.750	40	57363	243.60	ppb		90
20) Allyl Chloride	2.786	76	189291	57.07	ppb	#	84
21) Methyl Acetate	2.823	43	156508	51.65	ppb		96
22) Methylene Chloride	2.920	84	308008	51.21	ppb		95
23) TBA	3.079	59	390979	860.75	ppb		90
24) Acrylonitrile	3.201	53	372343	239.61	ppb		94
25) Methyl-t-Butyl Ether	3.256	73	772034	48.14	ppb		95
26) trans-1,2-Dichloroethene	3.237	96	314974	49.12	ppb		94
28) 1,1-Diclethane	3.780	63	557010	52.31	ppb		97
29) Vinyl Acetate	3.896	86	60227	62.95	ppb	#	95
30) DIPE	3.938	45	1128202	53.80	ppb		99
31) 2-Chloro-1,3-Butadiene	3.920	53	506510	50.22	ppb		97
32) ETBE	4.518	59	971669	52.14	ppb		98
33) 2,2-Dichloropropane	4.694	77	477773	49.85	ppb		97
34) cis-1,2-Dichloroethene	4.700	96	341104	52.11	ppb		100
35) 2-Butanone	4.767	43	96868	52.65	ppb		94
36) Propionitrile	4.859	54	130390	238.44	ppb		94
37) Bromochloromethane	5.133	130	193284	51.70	ppb		94
38) Methacrylonitrile	5.152	67	85620	45.39	ppb		95
39) Tetrahydrofuran	5.237	42	59367	43.10	ppb		97
40) Chloroform	5.322	83	530015	51.13	ppb		97
41) 1,1,1-Trichloroethane	5.590	97	452430	47.31	ppb		97

1st 10/27/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	857553	50.90	ppb	94
44) Cyclohexane	5.670	41	358095	50.79	ppb	92
46) Carbontetrachloride	5.853	121	119972	43.31	ppb	93
47) 1,1-Dichloropropene	5.865	75	450742	50.80	ppb	99
49) Benzene	6.164	78	1264625	51.73	ppb	98
50) 1,2-Dichloroethane	6.206	62	363328	45.75	ppb	96
51) Iso-Butyl Alcohol	6.194	43	185877	869.95	ppb	95
52) n-Heptane	6.639	43	428781	49.06	ppb	95
53) 1-Butanol	7.109	56	272278	2149.72	ppb	99
54) Trichloroethene	7.078	130	332813	47.92	ppb	96
55) Methylcyclohexane	7.310	55	442062	50.89	ppb	97
56) 1,2-Diclpropane	7.346	63	332116	51.20	ppb	98
57) Dibromomethane	7.486	93	153011	44.25	ppb	96
58) 1,4-Dioxane	7.554	88	41874m	797.34	ppb	
59) Methyl Methacrylate	7.572	69	162421	45.48	ppb	95
60) Bromodichloromethane	7.706	83	397654	47.36	ppb	96
61) 2-Nitropropane	7.980	41	84443	66.90	ppb	92
62) 2-Chloroethylvinyl Ether	8.102	63	168912	60.92	ppb	98
63) cis-1,3-Dichloropropene	8.236	75	524364	49.83	ppb	98
64) 4-Methyl-2-pentanone	8.438	43	225734	51.97	ppb	96
66) Toluene	8.596	91	1386523	51.03	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	426344	45.19	ppb	97
68) Ethyl Methacrylate	8.998	69	348196	47.67	ppb	99
69) 1,1,2-Trichloroethane	9.041	97	223927	47.33	ppb	96
72) Tetrachloroethene	9.181	164	255056	47.09	ppb	98
73) 2-Hexanone	9.328	43	151338	50.57	ppb	90
74) 1,3-Dichloropropane	9.212	76	429381	50.15	ppb	93
75) Dibromochloromethane	9.431	129	261166	46.48	ppb	97
76) N-Butyl Acetate	9.480	43	400076	47.60	ppb	94
77) 1,2-Dibromoethane	9.529	107	222613	47.52	ppb	99
78) Chlorobenzene	10.016	112	890386	49.68	ppb	98
79) 3-CBTF	10.029	180	481449	48.58	ppb	94
80) 4-CBTF	10.084	180	449543	50.17	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.096	131	300492	47.02	ppb	94
82) Ethylbenzene	10.132	106	495031	50.67	ppb	99
83) (m+p)Xylene	10.242	106	1211553	102.75	ppb	100
84) o-Xylene	10.596	106	595846	49.38	ppb	98
85) Styrene	10.608	104	992021	50.27	ppb	97
87) Bromoform	10.754	173	128025	44.44	ppb	98
88) 2-CBTF	10.833	180	467237	51.19	ppb	98
89) Isopropylbenzene	10.925	105	1525030	54.95	ppb	98
90) Cyclohexanone	10.986	55	514251	1914.67	ppb	97
91) trans-1,4-Dichloro-2-B...	11.230	53	60627	39.80	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.181	83	261031	51.34	ppb	96
93) Bromobenzene	11.169	156	369062	50.12	ppb	95
94) 1,2,3-Trichloropropane	11.211	110	79637	49.18	ppb	95
95) n-Propylbenzene	11.278	91	1784086	55.15	ppb	98
96) 2-Chlorotoluene	11.339	91	1045229	54.64	ppb	98
97) 3-Chlorotoluene	11.394	91	1105061	56.06	ppb	97
98) 4-Chlorotoluene	11.431	91	1196131	52.93	ppb	97
99) 1,3,5-Trimethylbenzene	11.425	105	1237688	53.14	ppb	99
100) tert-Butylbenzene	11.699	119	1107003	53.52	ppb	100
101) 1,2,4-Trimethylbenzene	11.736	105	1294433	53.31	ppb	98
102) 3,4-DCBTF	11.797	214	348525	49.13	ppb	98
103) sec-Butylbenzene	11.882	105	1586813	54.31	ppb	98
104) p-Isopropyltoluene	11.998	119	1342388	52.70	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	719987	50.85	ppb	99
106) 1,4-Dclbenz	12.034	146	704706	49.23	ppb	99
107) 2,4-DCBTF	12.083	214	323191	49.16	ppb	96
108) 2,5-DCBTF	12.126	214	347579	46.46	ppb	96
109) n-Butylbenzene	12.333	91	1216417	54.01	ppb	95
110) 1,2-Dclbenz	12.333	146	656562	49.83	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	45203	40.94	ppb	94
112) Trielution Dichlorotol...	13.071	125	1849944	154.23	ppb	97
113) 1,3,5 Trichlorobenzene	13.126	180	501434	47.76	ppb	97
114) Coelution Dichlorotoluene	13.400	125	1319532	101.83	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	428291	44.92	ppb	96
116) Hexachlorobt	13.747	225	167704	41.64	ppb	99
117) Naphthalen	13.796	128	770850	46.67	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	352279	42.88	ppb	93
119) 2,4,5-Trichlorotolene	14.570	159	241782	41.84	ppb	97
120) 2,3,6-Trichlorotoluene	14.656	159	212000	39.65	ppb	95

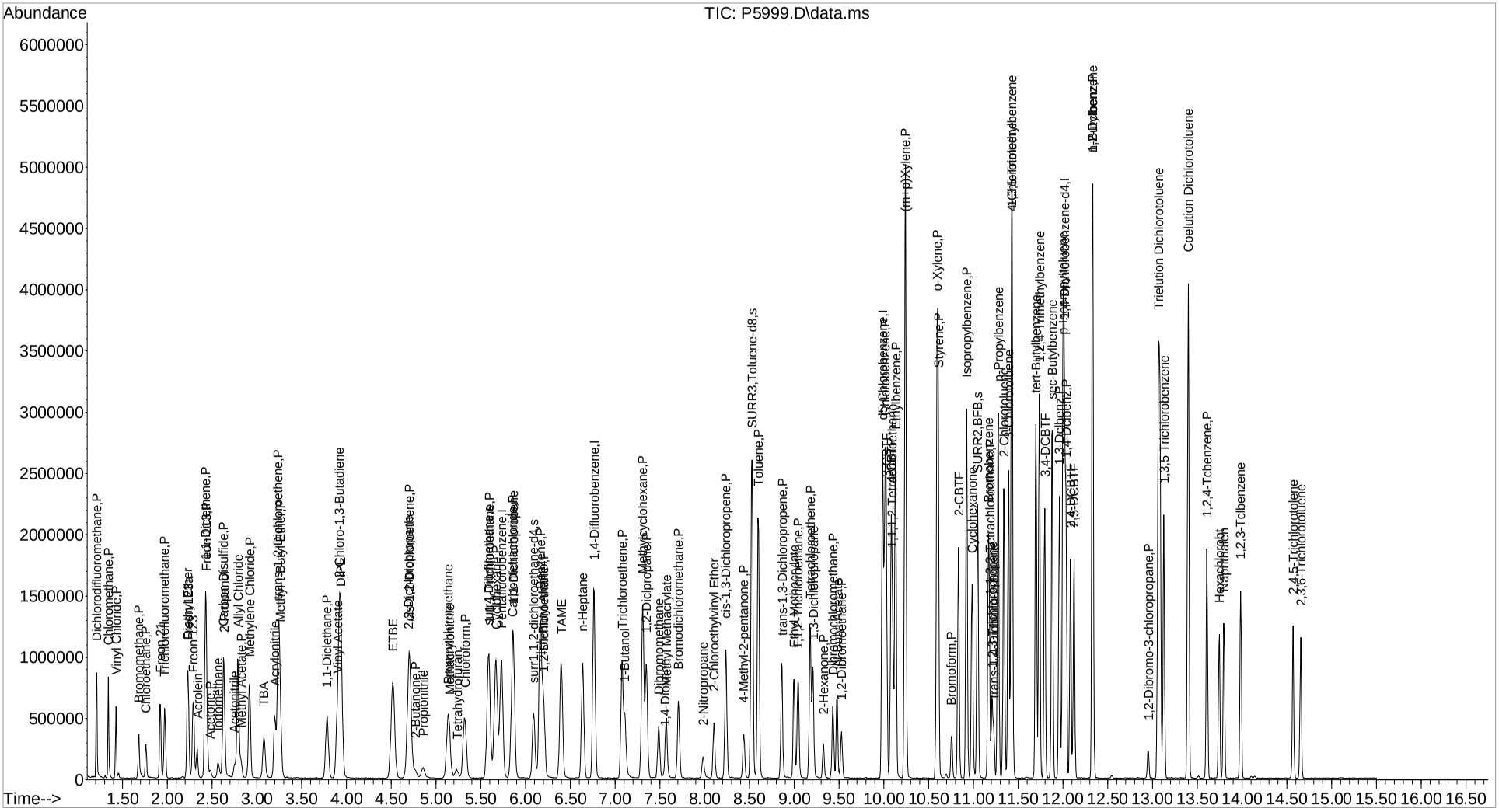
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/27/16 2nd 10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5999.D
Acq On : 27 Oct 2016 10:49 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

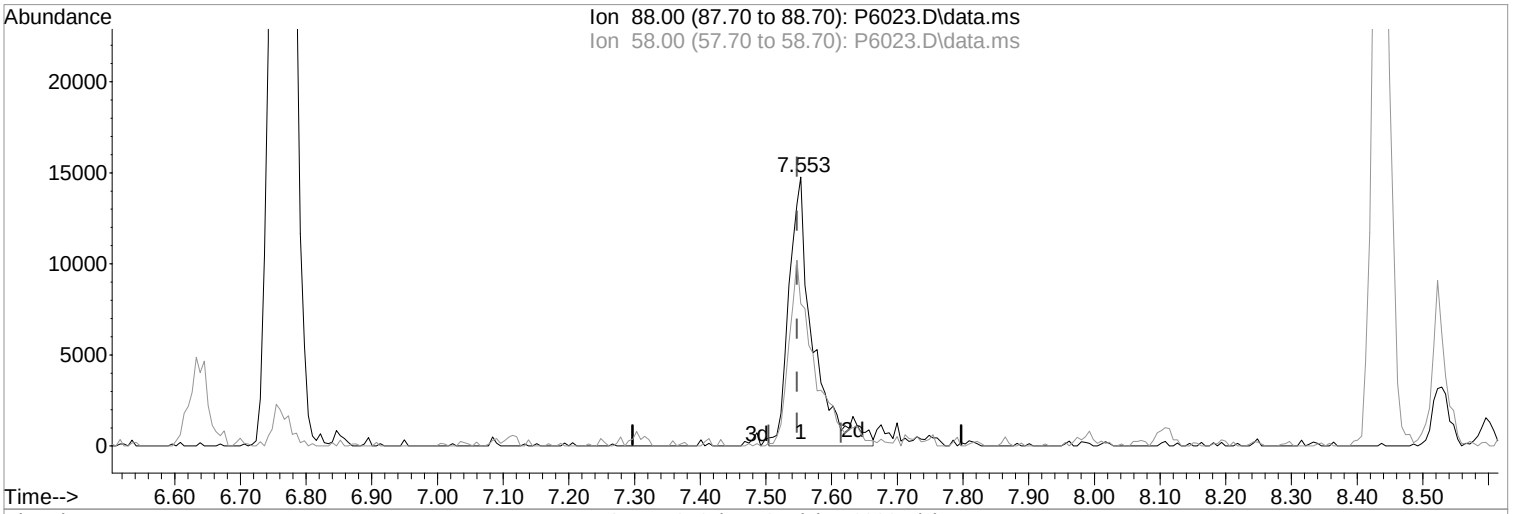
Quant Time: Oct 27 11:10:00 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

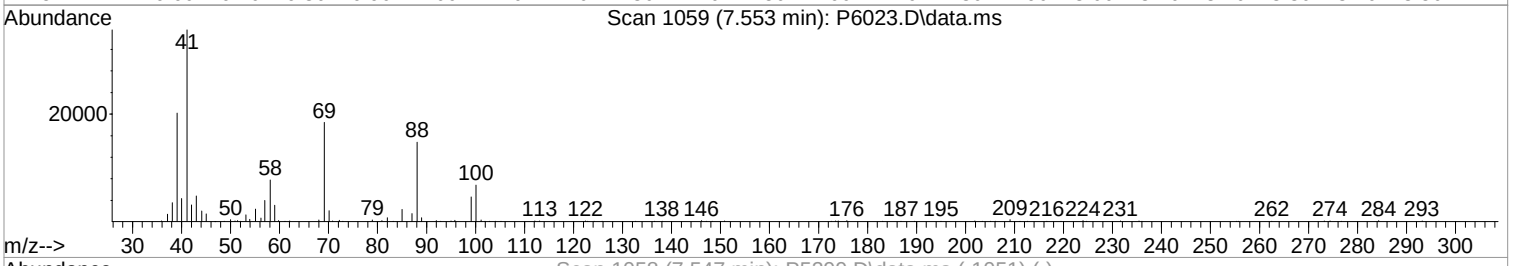


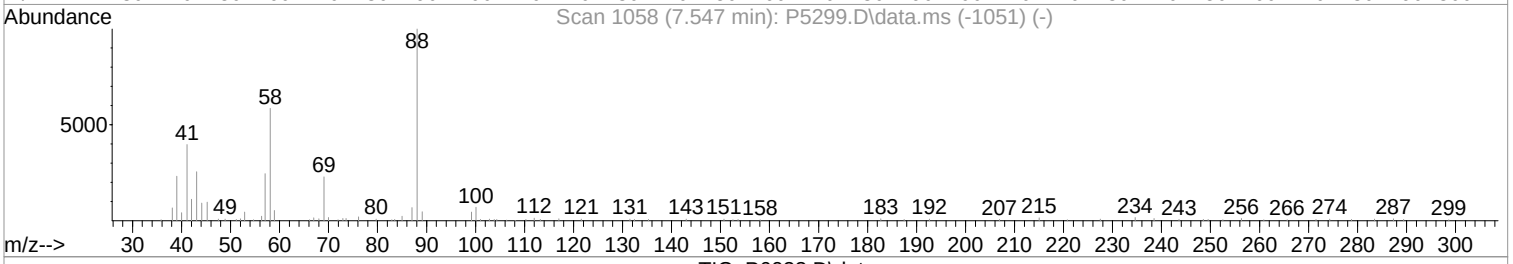
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:45:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6023.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.006) 726.74 ppb m

response 37553

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	52.84
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

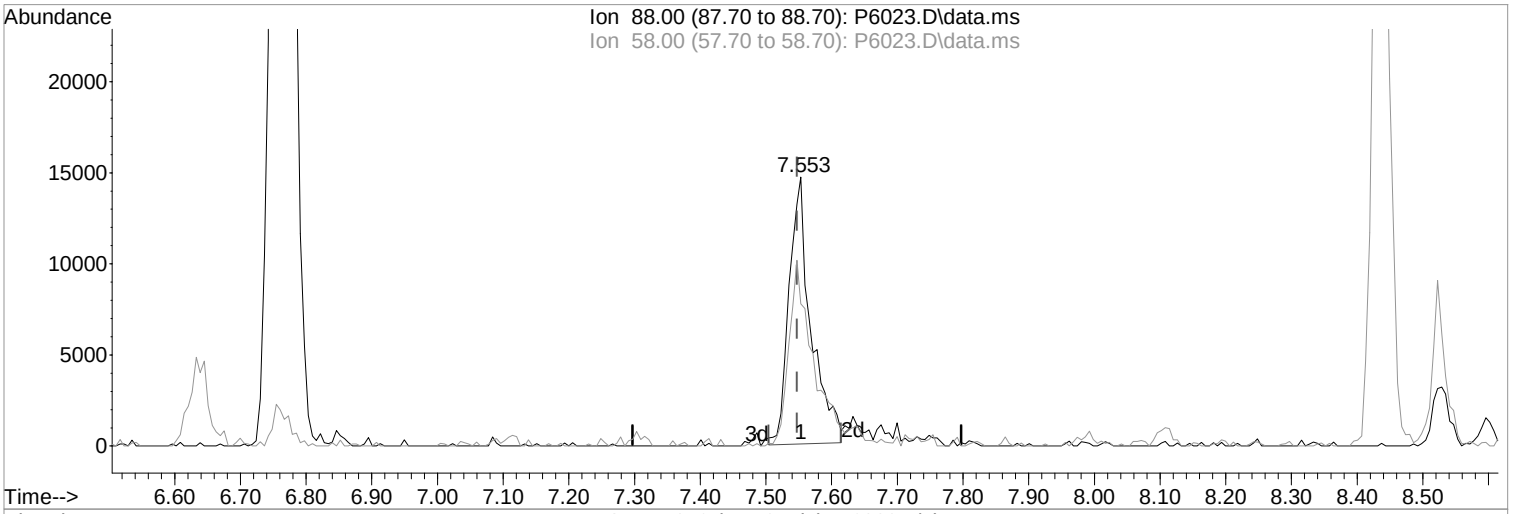
Poor integration.

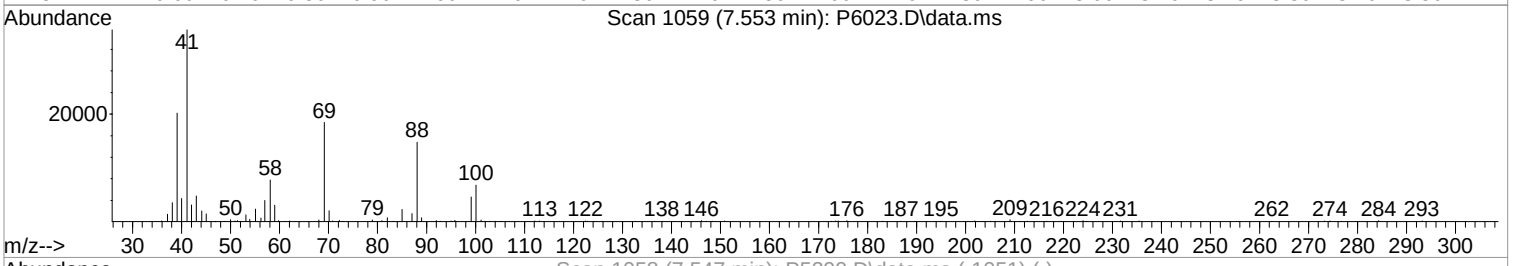
10/28/16

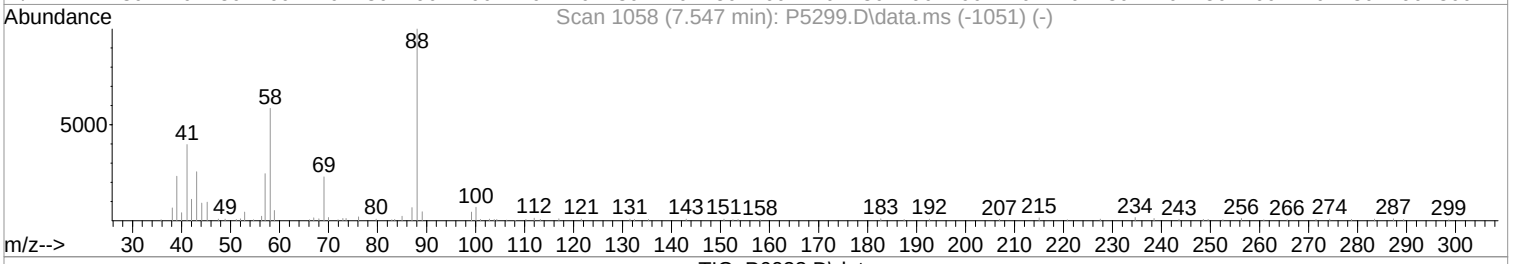
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:45:39 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6023.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.006) 657.84 ppb

response 33993

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	52.84
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	99	0.00
2	P	Dichlorodifluoromethane	0.5428	0.5516	-1.6	97	0.00
3	P	Chloromethane	0.4633	0.4901	-5.8	102	0.00
4	P	Vinyl Chloride	0.3956	0.3929	0.7	99	0.00
5	P	Bromomethane	0.2560	0.1914	15.7 ~~-25.2#~~	89	0.00
6	P	Chloroethane	0.2263	0.2020	-6.1 ~~-10.7~~	96	0.00
7		Freon 21	0.5238	0.4859	7.2	106	0.00
8	P	Trichlorofluoromethane	0.4579	0.4252	7.1	91	0.00
9		Diethyl Ether	0.2020	0.1814	10.2	88	0.00
10		Freon 123a	0.3185	0.2965	6.9	107	0.00
11		Freon 123	0.4136	0.3898	5.8	113	0.00
12		Acrolein	0.0273	0.0308	-12.8	108	0.00
13	P	1,1-Diclethene	0.3478	0.3758	-8.1	111	0.00
14	P	Freon 113	0.3687	0.3743	-1.5	103	0.00
15	P	Acetone	0.0815	0.0736	9.7	90	0.00
16		2-Propanol	0.0174	0.0146	16.1	79	0.00
17		Iodomethane	0.4673	0.2598	NT 44.4#	47#	0.00
18	P	Carbon Disulfide	1.0945	1.1868	-8.4	108	0.00
19		Acetonitrile	0.0144	0.0140	2.8	94	0.00
20		Allyl Chloride	0.2022	0.1495	NT 26.1#	71	0.00
21	P	Methyl Acetate	0.1847	0.1839	0.4	95	0.00
22	P	Methylene Chloride	0.3667	0.4020	-9.6	111	0.00
23		TBA	0.0277	0.0236	14.8	80	0.00
24		Acrylonitrile	0.0947	0.0912	3.7	94	0.00
25	P	Methyl-t-Butyl Ether	0.9776	0.9419	3.7	93	0.00
26	P	trans-1,2-Dichloroethene	0.3909	0.4142	-6.0	110	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-4.14#
28	P	1,1-Diclethane	0.6491	0.7085	-9.2	109	0.00
29		Vinyl Acetate	0.0583	0.0577	1.0	90	0.00
30		DIPE	1.2782	1.4414	-12.8	110	0.00
31		2-Chloro-1,3-Butadiene	0.6147	0.6307	-2.6	102	0.00
32		ETBE	1.1360	1.2004	-5.7	100	0.00
33		2,2-Dichloropropane	0.5843	0.5129	12.2	90	0.00
34	P	cis-1,2-Dichloroethene	0.3990	0.4405	-10.4	109	0.00
35	P	2-Butanone	0.1122	0.1130	-0.7	95	0.00
36		Propionitrile	0.0333	0.0319	4.2	92	-0.02
37		Bromochloromethane	0.2279	0.2438	-7.0	103	0.00
38		Methacrylonitrile	0.1150	0.1107	3.7	96	0.00
39		Tetrahydrofuran	0.0840	0.0748	11.0	94	0.00
40	P	Chloroform	0.6319	0.6803	-7.7	108	0.00
41	P	1,1,1-Trichloroethane	0.5829	0.5715	2.0	102	0.00
42		TAME	1.0270	1.0600	-3.2	98	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	106	0.00
44	P	Cyclohexane	0.2680	0.2694	-0.5	120	0.00
45	s	surr4,Dibrflmethane	0.2669	0.2877	-7.8	103	0.00
46	P	Carbontetrachloride	0.1053	0.0894	15.1	95	0.00
47		1,1-Dichloropropene	0.3373	0.3542	-5.0	110	0.00
48	s	surr1,1,2-dichloroethane-d4	0.3031	0.3103	-2.4	100	0.00
49	P	Benzene	0.9292	0.9534	-2.6	111	0.00
50	P	1,2-Dichloroethane	0.3019	0.2763	8.5	96	0.00
51		Iso-Butyl Alcohol	0.0081	0.0066	18.5	81	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
52		n-Heptane	0.3322	0.2984		10.2	96	0.00
53		1-Butanol	0.0048	0.0040		16.7	80	-0.01
54	P	Trichloroethene	0.2640	0.2667		-1.0	109	0.00
55	P	Methylcyclohexane	0.3302	0.3295		0.2	121	0.00
56	P	1,2-Diclpropane	0.2466	0.2546		-3.2	108	0.00
57		Dibromomethane	0.1314	0.1156		12.0	96	0.00
58		1,4-Dioxane	0.0020	0.0015	NT	25.0#	79	0.00
59		Methyl Methacrylate	0.1357	0.1144		15.7	88	0.00
60	P	Bromodichloromethane	0.3191	0.2917		8.6	99	0.00
61		2-Nitropropane	0.0480	0.0279	NT	41.9#	61	0.00
62		2-Chloroethylvinyl Ether	0.1054	0.1174		-11.4	113	0.00
63	P	cis-1,3-Dichloropropene	0.4000	0.3834		4.2	99	0.00
64	P	4-Methyl-2-pentanone	0.1651	0.1556		5.8	94	0.00
65	s	SURR3,Toluene-d8	1.0935	1.2339		-12.8	107	0.00
66	P	Toluene	1.0327	1.0594		-2.6	108	0.00
67	P	trans-1,3-Dichloropropene	0.3586	0.3049		15.0	91	0.00
68		Ethyl Methacrylate	0.2776	0.2485		10.5	90	0.00
69	P	1,1,2-Trichloroethane	0.1798	0.1685		6.3	97	0.00
70	s	SURR2,BFB	0.4266	0.4451		-4.3	99	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000		0.0	104	0.00
72	P	Tetrachloroethene	0.2245	0.2114		5.8	101	0.00
73	P	2-Hexanone	0.1240	0.1204		2.9	93	0.00
74		1,3-Dichloropropane	0.3549	0.3435		3.2	98	0.00
75	P	Dibromochloromethane	0.2329	0.2065		11.3	90	0.00
76		N-Butyl Acetate	0.3484	0.3079		11.6	90	0.00
77	P	1,2-Dibromoethane	0.1942	0.1807		7.0	93	0.00
78	P	Chlorobenzene	0.7429	0.7426		0.0	104	0.00
79		3-CBTF	0.4108	0.4065		1.0	106	0.00
80		4-CBTF	0.3714	0.3663		1.4	105	0.00
81		1,1,1,2-Tetrachloroethane	0.2649	0.2527		4.6	97	0.00
82	P	Ethylbenzene	0.4049	0.4089		-1.0	105	0.00
83	P	(m+p)Xylene	0.4887	0.5051		-3.4	106	0.00
84	P	o-Xylene	0.5001	0.4958		0.9	103	0.00
85	P	Styrene	0.8180	0.8244		-0.8	101	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000		0.0	94	0.00
87	P	Bromoform	0.2339	0.2004		14.3	78	0.00
88		2-CBTF	0.7412	0.7794		-5.2	103	0.00
89	P	Isopropylbenzene	2.2537	2.5033		-11.1	105	0.00
90		Cyclohexanone	0.0218	0.0420	NT	-92.7#	198	0.00
91		trans-1,4-Dichloro-2-Butene	0.1237	0.0804	NT	35.0#	58	0.00
92	P	1,1,2,2-Tetrachloroethane	0.4129	0.4012		2.8	91	0.00
93		Bromobenzene	0.5980	0.5863		2.0	93	0.00
94		1,2,3-Trichloropropane	0.1315	0.1191		9.4	84	0.00
95		n-Propylbenzene	2.6270	2.9599		-12.7	105	0.00
96		2-Chlorotoluene	1.5533	1.7291		-11.3	105	0.00
97		3-Chlorotoluene	1.6008	1.8871		-17.9	112	0.00
98		4-Chlorotoluene	1.8349	1.9705		-7.4	101	0.00
99		1,3,5-Trimethylbenzene	1.8913	2.0510		-8.4	101	0.00
100		tert-Butylbenzene	1.6795	1.7785		-5.9	100	0.00
101		1,2,4-Trimethylbenzene	1.9716	2.1439		-8.7	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
102		3,4-DCBTF	0.5761	0.5528		4.0	92	0.00
103		sec-Butylbenzene	2.3728	2.5996		-9.6	100	0.00
104		p-Isopropyltoluene	2.0687	2.1700		-4.9	98	0.00
105	P	1,3-Dclbenz	1.1497	1.1521		-0.2	93	0.00
106	P	1,4-Dclbenz	1.1625	1.1505		1.0	95	0.00
107		2,4-DCBTF	0.5339	0.5275		1.2	95	0.00
108		2,5-DCBTF	0.6075	0.5460		10.1	90	0.00
109		n-Butylbenzene	1.8290	1.9674		-7.6	99	0.00
110	P	1,2-Dclbenz	1.0700	1.0754		-0.5	93	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0897	0.0706	NT	21.3#	72	0.00
112		Trielution Dichlorotoluene	0.9740	1.0144		-4.1	97	0.00
113		1,3,5 Trichlorobenzene	0.8526	0.8147		4.4	90	0.00
114		Coelution Dichlorotoluene	1.0523	1.0645		-1.2	93	0.00
115	P	1,2,4-Tcbenzene	0.7742	0.6785		12.4	81	0.00
116		Hexachlorobt	0.3271	0.2575	NT	21.3#	77	0.00
117		Naphthalen	1.3412	1.1673		13.0	78	0.00
118		1,2,3-Tclbenzene	0.6672	0.5733		14.1	80	0.00
119		2,4,5-Trichlorotolene	0.4693	0.3800		19.0	78	0.00
120		2,3,6-Trichlorotoluene	0.4341	0.3355	NT	22.7#	76	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	777928	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1294369	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1189140	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	605262	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	372448	53.91	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.82%				
48) surr1,1,2-dichloroetha...	6.090	65	401579	51.17	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.34%				
65) SURR3,Toluene-d8	8.529	98	1597083	56.42	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.84%				
70) SURR2,BFB	11.047	95	576148	52.17	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	429120	50.81	ppb		97
3) Chloromethane	1.341	50	381251	52.89	ppb		95
4) Vinyl Chloride	1.426	62	305613	49.66	ppb		100
5) Bromomethane	1.683	94	148912	42.17	ppb		98
6) Chloroethane	1.762	64	157111	53.05	ppb		97
7) Freon 21	1.920	67	378012	46.39	ppb		100
8) Trichlorofluoromethane	1.975	101	330756	46.43	ppb		94
9) Diethyl Ether	2.225	59	141154	44.91	ppb		97
10) Freon 123a	2.231	67	230654	46.55	ppb		92
11) Freon 123	2.292	83	303228	47.12	ppb		98
12) Acrolein	2.335	56	119903	281.97	ppb		97
13) 1,1-Diclethene	2.426	96	292376	54.04	ppb		93
14) Freon 113	2.438	101	291177	50.77	ppb		95
15) Acetone	2.481	43	57237	45.12	ppb		92
16) 2-Propanol	2.634	45	226863	838.48	ppb		98
17) Iodomethane	2.566	142	202075	27.79	ppb		95
18) Carbon Disulfide	2.627	76	923268	54.22	ppb		100
19) Acetonitrile	2.755	40	54380	243.50	ppb	#	78
20) Allyl Chloride	2.792	76	116316	36.98	ppb	#	81
21) Methyl Acetate	2.823	43	143060	49.78	ppb		97
22) Methylene Chloride	2.920	84	312727	54.82	ppb		91
23) TBA	3.079	59	367550	853.18	ppb		96
24) Acrylonitrile	3.200	53	354874	240.79	ppb		99
25) Methyl-t-Butyl Ether	3.255	73	732721	48.17	ppb		98
26) trans-1,2-Dichloroethene	3.237	96	322210	52.98	ppb		95
28) 1,1-Diclethane	3.786	63	551174	54.58	ppb		96
29) Vinyl Acetate	3.902	86	44877	49.46	ppb	#	64
30) DIPE	3.938	45	1121328	56.38	ppb		96
31) 2-Chloro-1,3-Butadiene	3.920	53	490650	51.30	ppb		100
32) ETBE	4.517	59	933806	52.83	ppb		99
33) 2,2-Dichloropropane	4.700	77	399036	43.90	ppb		90
34) cis-1,2-Dichloroethene	4.712	96	342712	55.21	ppb		97
35) 2-Butanone	4.767	43	87872	50.35	ppb		85
36) Propionitrile	4.847	54	124268	239.60	ppb		84
37) Bromochloromethane	5.139	130	189670	53.50	ppb		97
38) Methacrylonitrile	5.145	67	86138	48.15	ppb		97
39) Tetrahydrofuran	5.231	42	58157	44.51	ppb		94
40) Chloroform	5.322	83	529207	53.83	ppb		98
41) 1,1,1-Trichloroethane	5.590	97	444558	49.02	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.395	73	824638	51.61	ppb	96
44) Cyclohexane	5.670	41	348720	50.27	ppb	94
46) Carbontetrachloride	5.852	121	115777	42.48	ppb	96
47) 1,1-Dichloropropene	5.865	75	458466	52.51	ppb	95
49) Benzene	6.163	78	1234032	51.30	ppb	96
50) 1,2-Dichloroethane	6.206	62	357570	45.76	ppb	97
51) Iso-Butyl Alcohol	6.194	43	169913	808.22	ppb	92
52) n-Heptane	6.639	43	386195	44.91	ppb	98
53) 1-Butanol	7.108	56	258988	2078.16	ppb	98
54) Trichloroethene	7.078	130	345190	50.51	ppb	98
55) Methylcyclohexane	7.309	55	426530	49.90	ppb	99
56) 1,2-Diclpropane	7.352	63	329494	51.62	ppb	98
57) Dibromomethane	7.486	93	149614	43.98	ppb	97
58) 1,4-Dioxane	7.553	88	37553m	726.74	ppb	
59) Methyl Methacrylate	7.572	69	148047	42.13	ppb	97
60) Bromodichloromethane	7.706	83	377603	45.71	ppb	98
61) 2-Nitropropane	7.980	41	72120	58.07	ppb	94
62) 2-Chloroethylvinyl Ether	8.102	63	151983	55.70	ppb	95
63) cis-1,3-Dichloropropene	8.236	75	496266	47.93	ppb	99
64) 4-Methyl-2-pentanone	8.437	43	201428	47.13	ppb	92
66) Toluene	8.602	91	1371217	51.29	ppb	97
67) trans-1,3-Dichloropropene	8.858	75	394684	42.52	ppb	97
68) Ethyl Methacrylate	8.998	69	321708	44.76	ppb	99
69) 1,1,2-Trichloroethane	9.047	97	218156	46.86	ppb	96
72) Tetrachloroethene	9.175	164	251434	47.09	ppb	96
73) 2-Hexanone	9.327	43	143143	48.52	ppb	95
74) 1,3-Dichloropropane	9.212	76	408522	48.40	ppb	95
75) Dibromochloromethane	9.431	129	245604	44.34	ppb	98
76) N-Butyl Acetate	9.480	43	366137	44.18	ppb	94
77) 1,2-Dibromoethane	9.529	107	214866	46.52	ppb	94
78) Chlorobenzene	10.016	112	883034	49.98	ppb	99
79) 3-CBTF	10.028	180	483338	49.48	ppb	95
80) 4-CBTF	10.083	180	435551	49.31	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.095	131	300520	47.70	ppb	95
82) Ethylbenzene	10.132	106	486188	50.49	ppb	99
83) (m+p)Xylene	10.242	106	1201186	103.34	ppb	99
84) o-Xylene	10.595	106	589634	49.57	ppb	95
85) Styrene	10.608	104	980280	50.39	ppb	98
87) Bromoform	10.754	173	121273	42.83	ppb	100
88) 2-CBTF	10.833	180	471714	52.58	ppb	95
89) Isopropylbenzene	10.925	105	1515181	55.54	ppb	99
90) Cyclohexanone	10.986	55	508064	1924.32	ppb	96
91) trans-1,4-Dichloro-2-B...	11.229	53	48669	32.50	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.181	83	242814	48.58	ppb	97
93) Bromobenzene	11.168	156	354872	49.02	ppb	94
94) 1,2,3-Trichloropropane	11.211	110	72066	45.27	ppb	95
95) n-Propylbenzene	11.278	91	1791535	56.34	ppb	98
96) 2-Chlorotoluene	11.339	91	1046532	55.66	ppb	98
97) 3-Chlorotoluene	11.394	91	1142180	58.94	ppb	99
98) 4-Chlorotoluene	11.431	91	1192671	53.69	ppb	98
99) 1,3,5-Trimethylbenzene	11.425	105	1241422	54.22	ppb	98
100) tert-Butylbenzene	11.699	119	1076430	52.95	ppb	97
101) 1,2,4-Trimethylbenzene	11.735	105	1297614	54.37	ppb	98
102) 3,4-DCBTF	11.796	214	334582	47.98	ppb	98
103) sec-Butylbenzene	11.882	105	1573458	54.78	ppb	98
104) p-Isopropyltoluene	11.998	119	1313430	52.45	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	697293	50.10	ppb	99
106) 1,4-Dclbenz	12.034	146	696379	49.48	ppb	98
107) 2,4-DCBTF	12.089	214	319303	49.40	ppb	95
108) 2,5-DCBTF	12.126	214	330468	44.94	ppb	96
109) n-Butylbenzene	12.333	91	1190799	53.78	ppb	96
110) 1,2-Dclbenz	12.333	146	650869	50.25	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	42732	39.38	ppb	88
112) Trielution Dichlorotol...	13.071	125	1842001	156.22	ppb	99
113) 1,3,5 Trichlorobenzene	13.125	180	493134	47.78	ppb	99
114) Coelution Dichlorotoluene	13.400	125	1288627	101.16	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	410691	43.82	ppb	99
116) Hexachlorobt	13.747	225	155869	39.37	ppb	95
117) Naphthalen	13.796	128	706498	43.52	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	346979	42.96	ppb	98
119) 2,4,5-Trichlorotolene	14.570	159	229988	40.48	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	203061	38.64	ppb	92

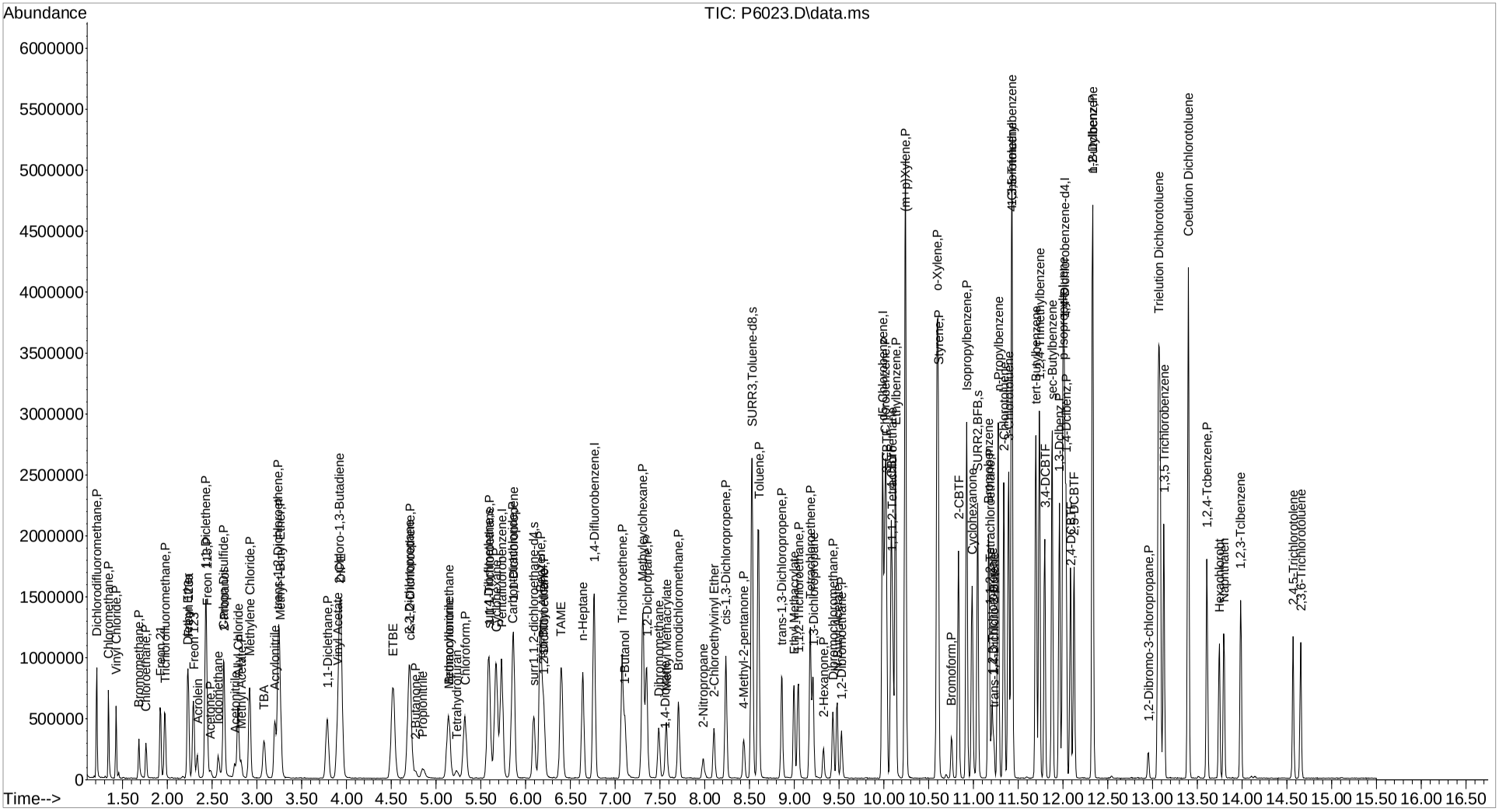
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/28/16
2nd 10/31/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6023.D
Acq On : 27 Oct 2016 10:53 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

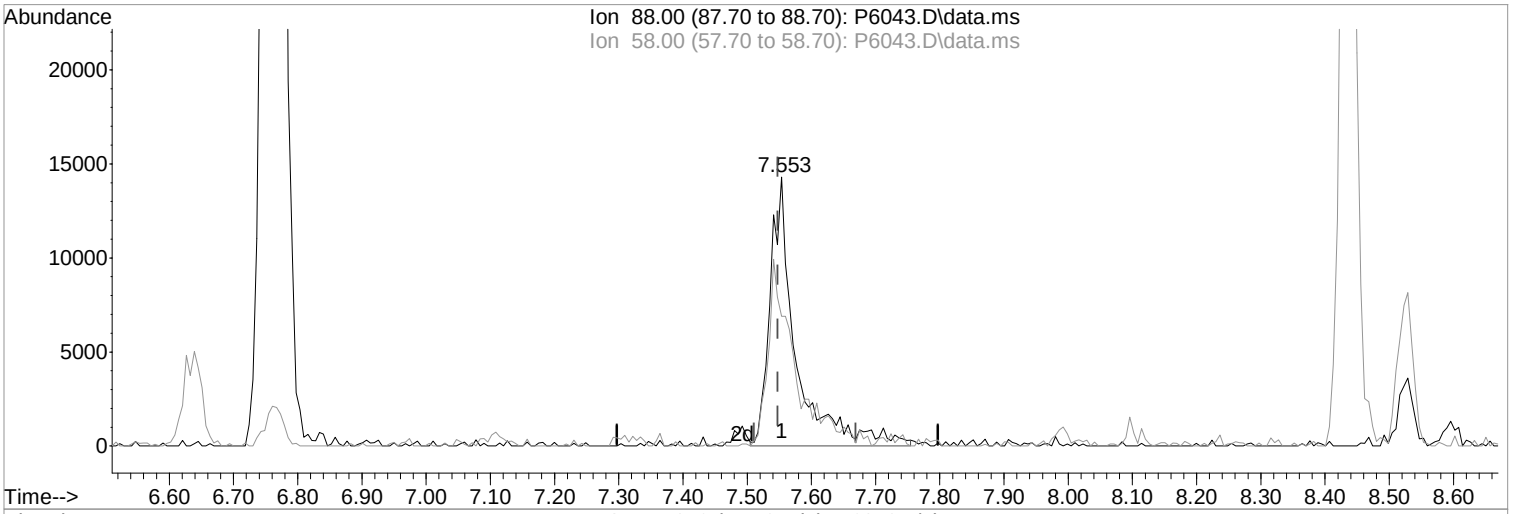
Quant Time: Oct 28 08:51:48 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

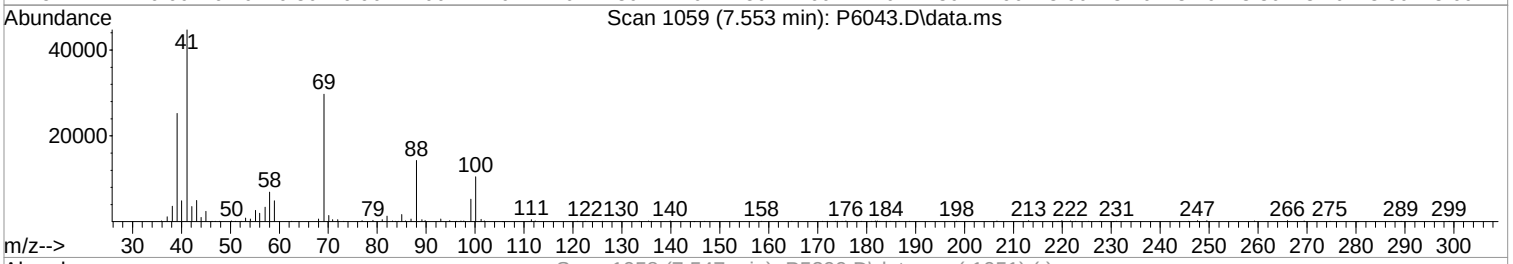


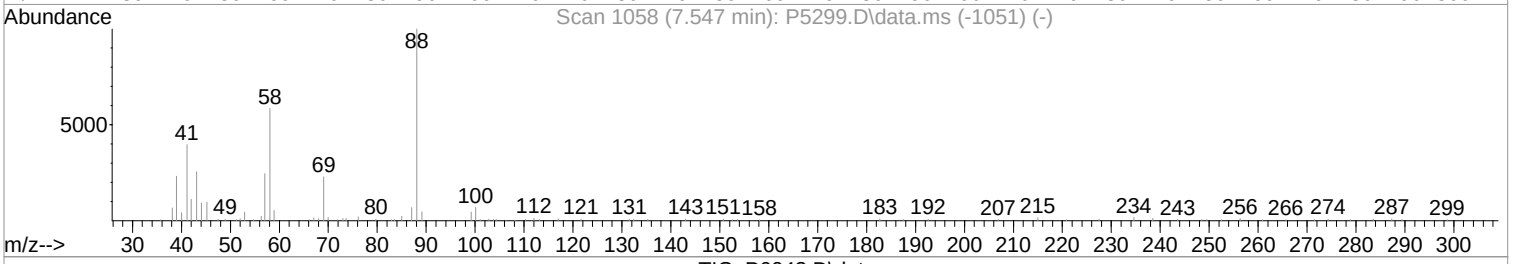
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 09:59:40 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6043.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.006) 786.81 ppb m

response 40204

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	48.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

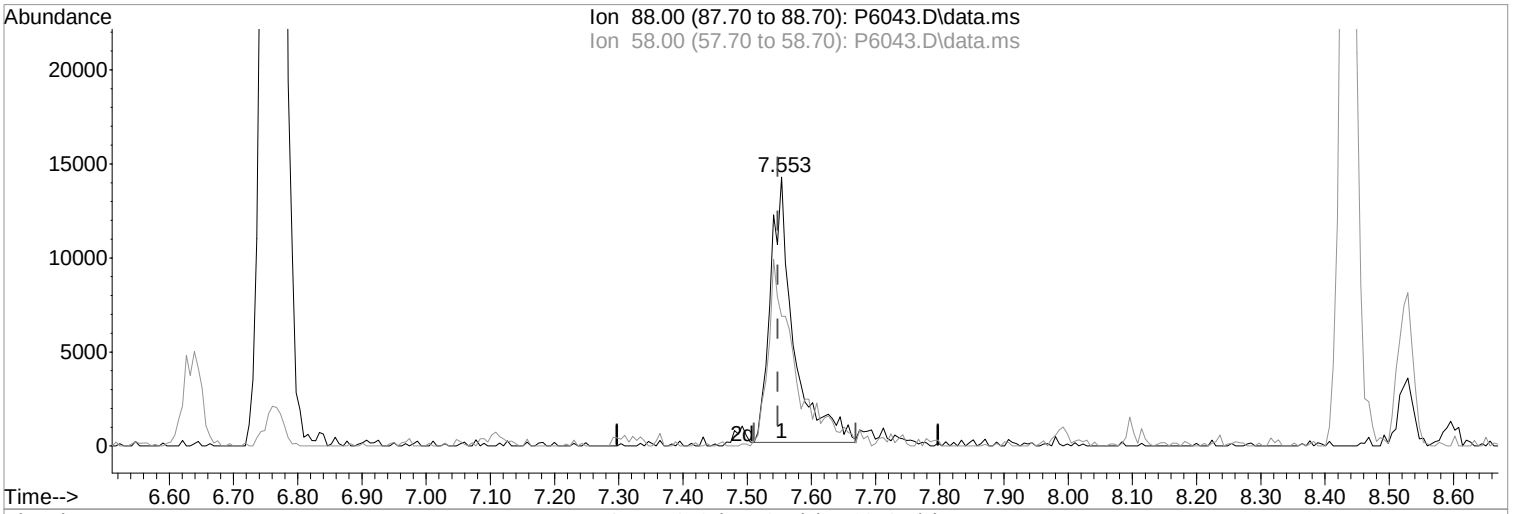
Poor integration.

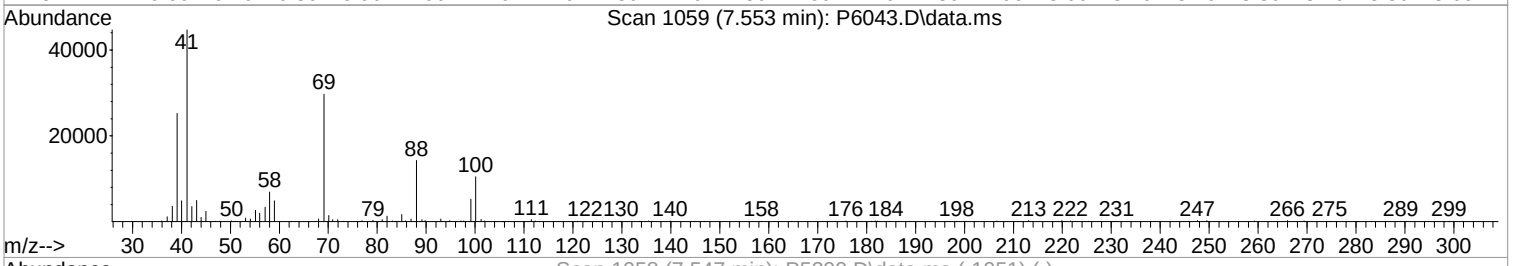
10/28/16

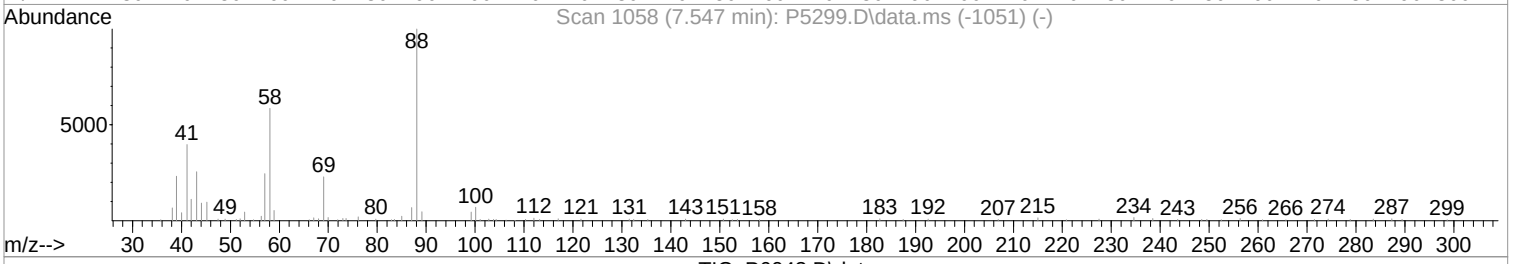
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 09:59:40 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P6043.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.006) 693.01 ppb

response 35411

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	48.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/28/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	98	0.00
2	P	Dichlorodifluoromethane	0.5428	0.5493	-1.2	96	0.00
3	P	Chloromethane	0.4633	0.5256	-13.4	109	0.00
4	P	Vinyl Chloride	0.3956	0.3857	2.5	97	0.00
5	P	Bromomethane	0.2560	0.2134	5.5 ~~-16.6~~	99	0.00
6	P	Chloroethane	0.2263	0.2032	-6.7 ~~10.2~~	97	0.00
7		Freon 21	0.5238	0.4807	8.2	105	0.00
8	P	Trichlorofluoromethane	0.4579	0.4350	5.0	93	0.00
9		Diethyl Ether	0.2020	0.1873	7.3	90	0.00
10		Freon 123a	0.3185	0.3049	4.3	109	0.00
11		Freon 123	0.4136	0.3818	7.7	110	0.00
12		Acrolein	0.0273	0.0367	-34.4#	128	0.00
13	P	1,1-Diclethene	0.3478	0.3737	-7.4	110	0.00
14	P	Freon 113	0.3687	0.3816	-3.5	104	0.00
15	P	Acetone	0.0815	0.0783	3.9	95	0.00
16		2-Propanol	0.0174	0.0142	18.4	76	0.00
17		Iodomethane	0.4673	0.1592	NT 65.9#	29#	0.00
18	P	Carbon Disulfide	1.0945	1.2097	-10.5	109	0.00
19		Acetonitrile	0.0144	0.0149	-3.5	100	0.00
20		Allyl Chloride	0.2022	0.2360	-16.7	112	0.00
21	P	Methyl Acetate	0.1847	0.2042	-10.6	105	0.00
22	P	Methylene Chloride	0.3667	0.4122	-12.4	113	0.00
23		TBA	0.0277	0.0255	7.9	86	0.00
24		Acrylonitrile	0.0947	0.1009	-6.5	104	0.00
25	P	Methyl-t-Butyl Ether	0.9776	1.0060	-2.9	99	0.00
26	P	trans-1,2-Dichloroethene	0.3909	0.4148	-6.1	110	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-4.14#
28	P	1,1-Diclethane	0.6491	0.7251	-11.7	111	0.00
29		Vinyl Acetate	0.0583	0.0796	-36.5#	123	-0.01
30		DIPE	1.2782	1.4412	-12.8	109	-0.01
31		2-Chloro-1,3-Butadiene	0.6147	0.6481	-5.4	105	-0.01
32		ETBE	1.1360	1.2480	-9.9	103	0.00
33		2,2-Dichloropropane	0.5843	0.6264	-7.2	109	0.00
34	P	cis-1,2-Dichloroethene	0.3990	0.4517	-13.2	111	0.00
35	P	2-Butanone	0.1122	0.1182	-5.3	99	0.00
36		Propionitrile	0.0333	0.0356	-6.9	102	-0.01
37		Bromochloromethane	0.2279	0.2466	-8.2	104	0.00
38		Methacrylonitrile	0.1150	0.1151	-0.1	100	0.00
39		Tetrahydrofuran	0.0840	0.0752	10.5	94	0.00
40	P	Chloroform	0.6319	0.6977	-10.4	111	-0.01
41	P	1,1,1-Trichloroethane	0.5829	0.5913	-1.4	105	-0.01
42		TAME	1.0270	1.1025	-7.4	102	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	105	0.00
44	P	Cyclohexane	0.2680	0.2776	-3.6	123	0.00
45	s	surr4,Dibrflmethane	0.2669	0.2937	-10.0	103	0.00
46	P	Carbontetrachloride	0.1053	0.0945	10.3	99	-0.01
47		1,1-Dichloropropene	0.3373	0.3563	-5.6	109	0.00
48	s	surr1,1,2-dichloroethane-d4	0.3031	0.3178	-4.8	101	0.00
49	P	Benzene	0.9292	0.9895	-6.5	114	0.00
50	P	1,2-Dichloroethane	0.3019	0.2976	1.4	102	0.00
51		Iso-Butyl Alcohol	0.0081	0.0074	8.6	90	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
52		n-Heptane	0.3322	0.3399		-2.3	108	0.00
53		1-Butanol	0.0048	0.0043		10.4	85	-0.01
54	P	Trichloroethene	0.2640	0.2586		2.0	104	0.00
55	P	Methylcyclohexane	0.3302	0.3379		-2.3	123	0.00
56	P	1,2-Diclpropane	0.2466	0.2531		-2.6	106	0.00
57		Dibromomethane	0.1314	0.1249		4.9	103	0.00
58		1,4-Dioxane	0.0020	0.0016		20.0	85	0.00
59		Methyl Methacrylate	0.1357	0.1330		2.0	102	0.00
60	P	Bromodichloromethane	0.3191	0.3049		4.5	102	0.00
61		2-Nitropropane	0.0480	0.0325	NT	32.3#	70	0.00
62		2-Chloroethylvinyl Ether	0.1054	0.1340		-27.1#	128	0.00
63	P	cis-1,3-Dichloropropene	0.4000	0.4127		-3.2	106	0.00
64	P	4-Methyl-2-pentanone	0.1651	0.1785		-8.1	107	0.00
65	s	SURR3,Toluene-d8	1.0935	1.2432		-13.7	106	0.00
66	P	Toluene	1.0327	1.0850		-5.1	109	0.00
67	P	trans-1,3-Dichloropropene	0.3586	0.3405		5.0	100	0.00
68		Ethyl Methacrylate	0.2776	0.2831		-2.0	102	0.00
69	P	1,1,2-Trichloroethane	0.1798	0.1771		1.5	100	0.00
70	s	SURR2,BFB	0.4266	0.4530		-6.2	99	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000		0.0	103	0.00
72	P	Tetrachloroethene	0.2245	0.2105		6.2	100	0.00
73	P	2-Hexanone	0.1240	0.1278		-3.1	99	0.00
74		1,3-Dichloropropane	0.3549	0.3759		-5.9	107	0.00
75	P	Dibromochloromethane	0.2329	0.2227		4.4	97	0.00
76		N-Butyl Acetate	0.3484	0.3314		4.9	96	0.00
77	P	1,2-Dibromoethane	0.1942	0.1957		-0.8	101	0.00
78	P	Chlorobenzene	0.7429	0.7421		0.1	104	0.00
79		3-CBTF	0.4108	0.4077		0.8	106	0.00
80		4-CBTF	0.3714	0.3685		0.8	105	0.00
81		1,1,1,2-Tetrachloroethane	0.2649	0.2488		6.1	95	0.00
82	P	Ethylbenzene	0.4049	0.4157		-2.7	107	0.00
83	P	(m+p)Xylene	0.4887	0.5110		-4.6	108	0.00
84	P	o-Xylene	0.5001	0.5077		-1.5	105	0.00
85	P	Styrene	0.8180	0.8325		-1.8	102	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000		0.0	93	0.00
87	P	Bromoform	0.2339	0.2159		7.7	83	0.00
88		2-CBTF	0.7412	0.7644		-3.1	100	0.00
89	P	Isopropylbenzene	2.2537	2.5071		-11.2	105	0.00
90		Cyclohexanone	0.0218	0.0416	NT	-90.8#	195	0.00
91		trans-1,4-Dichloro-2-Butene	0.1237	0.1031		16.7	74	0.00
92	P	1,1,2,2-Tetrachloroethane	0.4129	0.4658		-12.8	105	0.00
93		Bromobenzene	0.5980	0.6002		-0.4	94	0.00
94		1,2,3-Trichloropropane	0.1315	0.1393		-5.9	98	0.00
95		n-Propylbenzene	2.6270	3.0029		-14.3	105	0.00
96		2-Chlorotoluene	1.5533	1.7360		-11.8	105	0.00
97		3-Chlorotoluene	1.6008	1.8248		-14.0	108	0.00
98		4-Chlorotoluene	1.8349	1.9556		-6.6	99	0.00
99		1,3,5-Trimethylbenzene	1.8913	2.0462		-8.2	100	0.00
100		tert-Butylbenzene	1.6795	1.7881		-6.5	100	0.00
101		1,2,4-Trimethylbenzene	1.9716	2.1586		-9.5	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102		3,4-DCBTF	0.5761	0.5750	0.2	95	0.00
103		sec-Butylbenzene	2.3728	2.5951	-9.4	99	0.00
104		p-Isopropyltoluene	2.0687	2.2138	-7.0	99	0.00
105	P	1,3-Dclbenz	1.1497	1.1872	-3.3	95	0.00
106	P	1,4-Dclbenz	1.1625	1.1729	-0.9	96	0.00
107		2,4-DCBTF	0.5339	0.5320	0.4	95	0.00
108		2,5-DCBTF	0.6075	0.5592	8.0	92	0.00
109		n-Butylbenzene	1.8290	1.9850	-8.5	99	0.00
110	P	1,2-Dclbenz	1.0700	1.1017	-3.0	94	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0897	0.0781	12.9	78	0.00
112		Trielution Dichlorotoluene	0.9740	1.0056	-3.2	95	0.00
113		1,3,5 Trichlorobenzene	0.8526	0.8023	5.9	88	0.00
114		Coelution Dichlorotoluene	1.0523	1.0598	-0.7	92	0.00
115	P	1,2,4-Tcbenzene	0.7742	0.7103	8.3	84	0.00
116		Hexachlorobt	0.3271	0.2789	14.7	83	0.00
117		Naphthalen	1.3412	1.2661	5.6	83	0.00
118		1,2,3-Tclbenzene	0.6672	0.5797	13.1	80	0.00
119		2,4,5-Trichlorotolene	0.4693	0.3884	17.2	79	0.00
120		2,3,6-Trichlorotoluene	0.4341	0.3431	21.0#	77	0.00

NT

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.731	168	774105	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.761	114	1279935	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1186983	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	600258	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.584	113	375890	55.03	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.06%				
48) surr1,1,2-dichloroetha...	6.090	65	406793	52.42	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.84%				
65) SURR3,Toluene-d8	8.529	98	1591267	56.85	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.70%				
70) SURR2,BFB	11.047	95	579834	53.09	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.18%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	425214	50.60	ppb		99
3) Chloromethane	1.341	50	406845	56.72	ppb		97
4) Vinyl Chloride	1.427	62	298583	48.75	ppb		96
5) Bromomethane	1.683	94	165204	47.25	ppb		97
6) Chloroethane	1.762	64	157290	53.37	ppb		98
7) Freon 21	1.920	67	372136	45.89	ppb		98
8) Trichlorofluoromethane	1.969	101	336713	47.49	ppb		98
9) Diethyl Ether	2.225	59	144977	46.36	ppb		95
10) Freon 123a	2.231	67	236005	47.86	ppb		93
11) Freon 123	2.286	83	295517	46.15	ppb		96
12) Acrolein	2.329	56	142095	335.81	ppb		100
13) 1,1-Diclethene	2.426	96	289281	53.73	ppb		90
14) Freon 113	2.432	101	295388	51.75	ppb		90
15) Acetone	2.481	43	60630	48.03	ppb		90
16) 2-Propanol	2.634	45	219707	816.04	ppb		90
17) Iodomethane	2.567	142	123233	17.03	ppb		92
18) Carbon Disulfide	2.628	76	936454	55.26	ppb		99
19) Acetonitrile	2.749	40	57480	258.65	ppb	#	80
20) Allyl Chloride	2.786	76	182692	58.37	ppb	#	93
21) Methyl Acetate	2.823	43	158053	55.27	ppb		96
22) Methylene Chloride	2.914	84	319074	56.21	ppb		94
23) TBA	3.079	59	394895	921.18	ppb		90
24) Acrylonitrile	3.201	53	390544	266.30	ppb		93
25) Methyl-t-Butyl Ether	3.255	73	778742	51.45	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	321082	53.05	ppb		92
28) 1,1-Diclethane	3.780	63	561313	55.85	ppb		96
29) Vinyl Acetate	3.889	86	61615	68.24	ppb	#	87
30) DIPE	3.932	45	1115631	56.37	ppb		96
31) 2-Chloro-1,3-Butadiene	3.914	53	501707	52.71	ppb		97
32) ETBE	4.517	59	966095	54.93	ppb		98
33) 2,2-Dichloropropane	4.694	77	484906	53.61	ppb		96
34) cis-1,2-Dichloroethene	4.706	96	349694	56.61	ppb		100
35) 2-Butanone	4.767	43	91511	52.70	ppb		84
36) Propionitrile	4.853	54	137929	267.26	ppb		90
37) Bromochloromethane	5.133	130	190892	54.11	ppb		95
38) Methacrylonitrile	5.145	67	89123	50.06	ppb		96
39) Tetrahydrofuran	5.231	42	58235	44.79	ppb		93
40) Chloroform	5.316	83	540101	55.21	ppb		99
41) 1,1,1-Trichloroethane	5.584	97	457700	50.72	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	853452	53.67	ppb	94
44) Cyclohexane	5.670	41	355357	51.80	ppb	92
46) Carbontetrachloride	5.846	121	121011	44.90	ppb	85
47) 1,1-Dichloropropene	5.865	75	456069	52.83	ppb	95
49) Benzene	6.163	78	1266504	53.24	ppb	96
50) 1,2-Dichloroethane	6.206	62	380890	49.29	ppb	98
51) Iso-Butyl Alcohol	6.194	43	188196	905.28	ppb	88
52) n-Heptane	6.639	43	435089	51.17	ppb	96
53) 1-Butanol	7.108	56	272722	2213.05	ppb	100
54) Trichloroethene	7.078	130	331046	48.98	ppb	96
55) Methylcyclohexane	7.310	55	432477	51.17	ppb	96
56) 1,2-Diclpropane	7.352	63	323939	51.32	ppb	98
57) Dibromomethane	7.486	93	159907	47.53	ppb	96
58) 1,4-Dioxane	7.553	88	40204m	786.81	ppb	
59) Methyl Methacrylate	7.572	69	170252	49.00	ppb	96
60) Bromodichloromethane	7.706	83	390222	47.77	ppb	100
61) 2-Nitropropane	7.980	41	83226	67.77	ppb	94
62) 2-Chloroethylvinyl Ether	8.102	63	171488	63.56	ppb	97
63) cis-1,3-Dichloropropene	8.236	75	528291	51.60	ppb	98
64) 4-Methyl-2-pentanone	8.437	43	228455	54.05	ppb	100
66) Toluene	8.596	91	1388722	52.53	ppb	98
67) trans-1,3-Dichloropropene	8.858	75	435872	47.49	ppb	96
68) Ethyl Methacrylate	8.998	69	362301	50.97	ppb	93
69) 1,1,2-Trichloroethane	9.041	97	226733	49.25	ppb	94
72) Tetrachloroethene	9.175	164	249862	46.88	ppb	96
73) 2-Hexanone	9.327	43	151696	51.51	ppb	88
74) 1,3-Dichloropropane	9.212	76	446172	52.95	ppb	90
75) Dibromochloromethane	9.431	129	264318	47.81	ppb	97
76) N-Butyl Acetate	9.474	43	393321	47.55	ppb	98
77) 1,2-Dibromoethane	9.529	107	232248	50.38	ppb	96
78) Chlorobenzene	10.010	112	880817	49.94	ppb	93
79) 3-CBTF	10.029	180	483896	49.62	ppb	94
80) 4-CBTF	10.083	180	437459	49.62	ppb	100
81) 1,1,1,2-Tetrachloroethane	10.096	131	295311	46.96	ppb	100
82) Ethylbenzene	10.132	106	493471	51.33	ppb	96
83) (m+p)Xylene	10.242	106	1212986	104.54	ppb	97
84) o-Xylene	10.595	106	602626	50.76	ppb	100
85) Styrene	10.608	104	988188	50.89	ppb	99
87) Bromoform	10.754	173	129573	46.14	ppb	98
88) 2-CBTF	10.833	180	458867	51.57	ppb	95
89) Isopropylbenzene	10.925	105	1504917	55.62	ppb	98
90) Cyclohexanone	10.986	55	498832	1905.10	ppb	92
91) trans-1,4-Dichloro-2-B...	11.230	53	61903	41.68	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.181	83	279593	56.40	ppb	94
93) Bromobenzene	11.169	156	360259	50.18	ppb	90
94) 1,2,3-Trichloropropane	11.205	110	83638	52.98	ppb	96
95) n-Propylbenzene	11.278	91	1802485	57.15	ppb	98
96) 2-Chlorotoluene	11.339	91	1042034	55.88	ppb	98
97) 3-Chlorotoluene	11.394	91	1095342	56.99	ppb	99
98) 4-Chlorotoluene	11.431	91	1173894	53.29	ppb	98
99) 1,3,5-Trimethylbenzene	11.425	105	1228231	54.09	ppb	98
100) tert-Butylbenzene	11.699	119	1073304	53.23	ppb	100
101) 1,2,4-Trimethylbenzene	11.736	105	1295713	54.74	ppb	100
102) 3,4-DCBTF	11.796	214	345135	49.90	ppb	97
103) sec-Butylbenzene	11.882	105	1557715	54.68	ppb	98
104) p-Isopropyltoluene	11.998	119	1328872	53.51	ppb	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

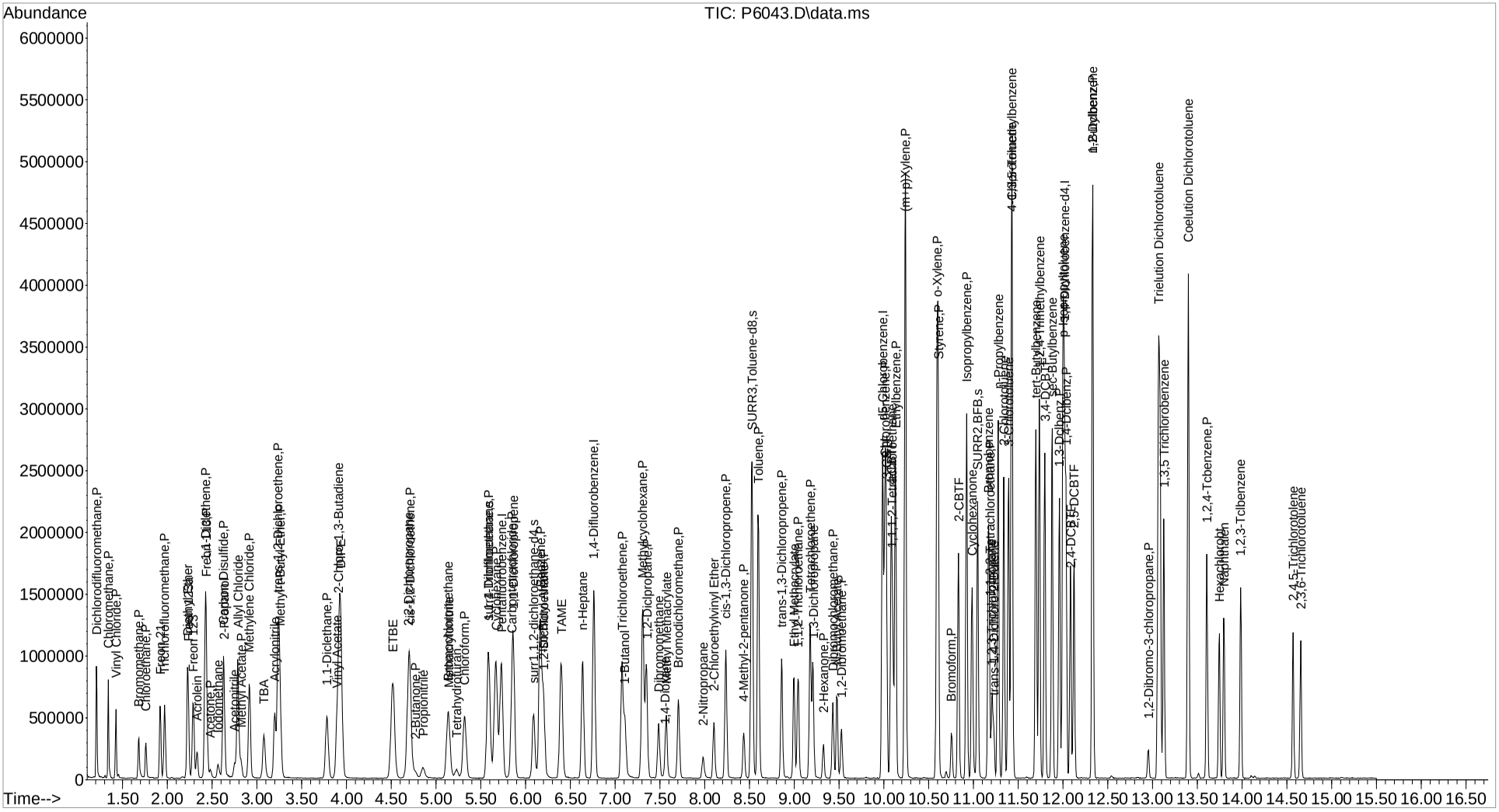
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	712625	51.63	ppb	98
106) 1,4-Dclbenz	12.034	146	704050	50.45	ppb	99
107) 2,4-DCBTF	12.089	214	319360	49.83	ppb	97
108) 2,5-DCBTF	12.126	214	335685	46.03	ppb	97
109) n-Butylbenzene	12.333	91	1191523	54.26	ppb	96
110) 1,2-Dclbenz	12.333	146	661285	51.48	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	46863	43.54	ppb	96
112) Trielution Dichlorotol...	13.071	125	1810895	154.87	ppb	99
113) 1,3,5 Trichlorobenzene	13.125	180	481593	47.05	ppb	99
114) Coelution Dichlorotoluene	13.400	125	1272350	100.72	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	426361	45.87	ppb	97
116) Hexachlorobt	13.747	225	167402	42.63	ppb	96
117) Naphthalen	13.796	128	760010	47.20	ppb	98
118) 1,2,3-Tclbenzene	13.985	180	347965	43.44	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	233122	41.38	ppb	99
120) 2,3,6-Trichlorotoluene	14.656	159	205931	39.51	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6043.D
Acq On : 28 Oct 2016 9:43 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 28 10:05:46 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\102416\P5889.D
Tune Time : 24 Oct 2016 9:40 am

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\102416\P5890.D

822720 1366310 1315680

699170

File	Sample	Surrogate Recovery %				Internal Standard Responses		
P5890.D								
	CCV	108	104	113	112	822720	1366313	1315675
				699170				
P5891.D								
	LCS	108	104	112	111	823506	1376626	1308037
				676391				
P5892.D								
	VBLK	108	103	113	110	833295	1360592	1289339
				679147				
P5893.D								
	VBLK	109	104	113	108	823384	1362813	1287685
				681428				
P5894.D								
	R1611021-0	108	102	110	108	812654	1360193	1274625
				661228				
P5895.D								
	R1611021-0	108	106	109	110	815818	1347639	1276363
				681419				
P5896.D								
	R1611021-0	108	104	111	108	814236	1335509	1272679
				660275				
P5897.D								
	R1611021-0	109	101	110	109	806773	1339789	1268837
				653767				
P5898.D								
	R1611021-0	106	104	111	107	792724	1332685	1276233
				656716				
P5899.D								
	R1611021-0	107	103	112	109	811194	1335645	1270211
				669380				
P5900.D								
	R1611021-0	109	104	113	112	803513	1323532	1267492
				654733				
P5901.D								
	R1611021-0	107	102	112	110	798189	1322808	1258050
				647781				
P5902.D								
	R1611185-0	107	102	111	110	799792	1324737	1246736
				655954				
P5903.D								

1st 10/25/16
2nd 10/25/16

```
         R1611185-0  107  105  108  108      798488    1317452    1246773
                                654199
-------------------------------------------------------------------------
P5904.D
         R1611185-0  109  104  114  110      799042    1303547    1252029
                                648677
-------------------------------------------------------------------------
P5905.D
         R1611185-0  108  104  109  110      790669    1304608    1241167
                                646280
-------------------------------------------------------------------------
P5906.D
         R1611185-0  107  102  112  110      808830    1317346    1248486
                                654903
-------------------------------------------------------------------------
P5907.D
         R1611185-0  111  105  112  111      796180    1302722    1242772
                                656778
-------------------------------------------------------------------------
P5908.D
         R1611185-0  107  101  114  108      803602    1308848    1238653
                                645349
-------------------------------------------------------------------------
P5909.D
         R1611185-0  107  104  113  108      790811    1299957    1239749
                                656855
-------------------------------------------------------------------------
P5910.D
         R1611185-0  105  103  110  109      799339    1313728    1250145
                                649940
-------------------------------------------------------------------------
P5911.D
         R1611185-0  109  105  113  111      777271    1295557    1248728
                                667319
-------------------------------------------------------------------------
P5912.D
         R1611185-0  111  103  114  109      801212    1319568    1238885
                                669005
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

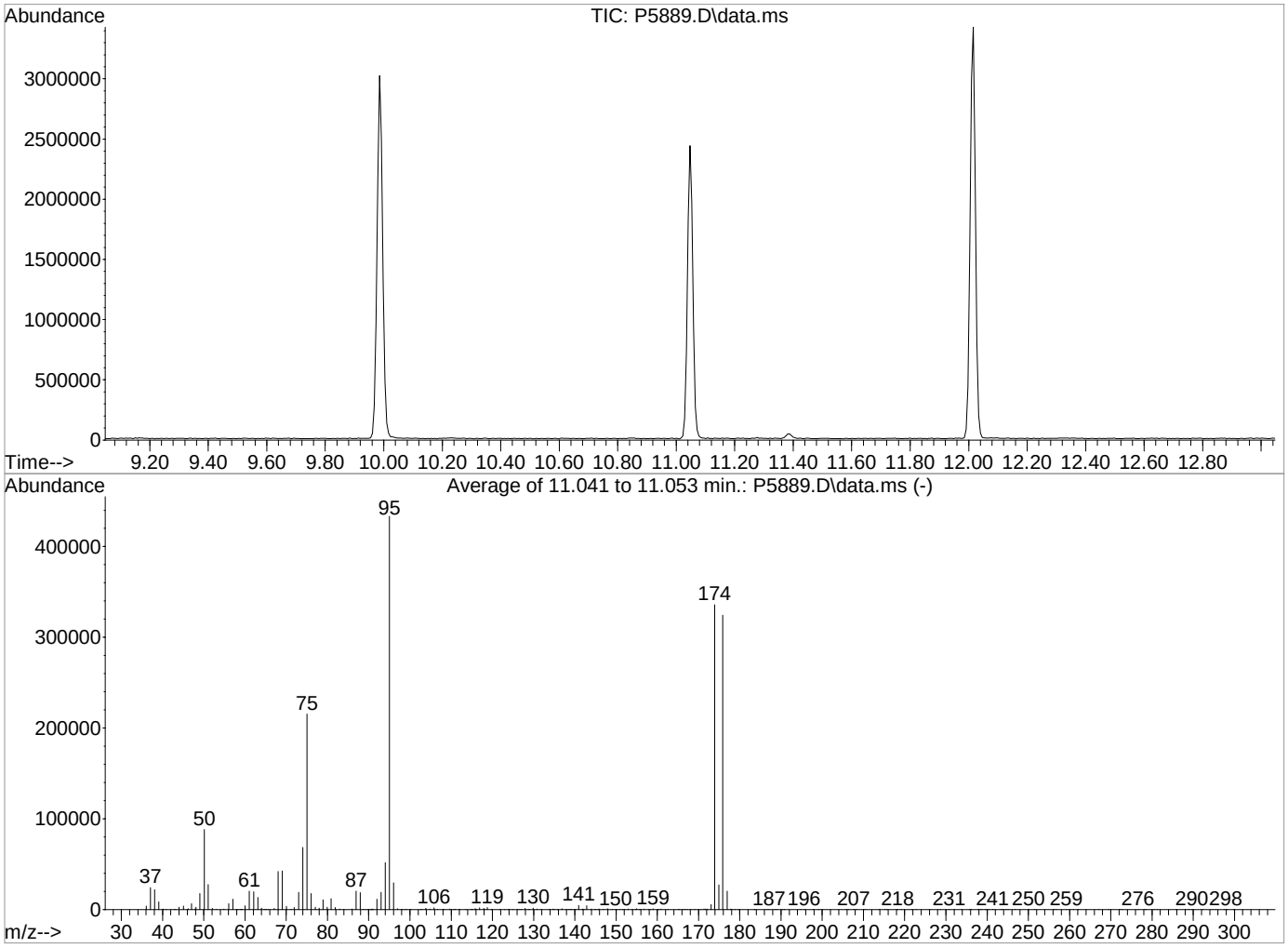
    Created: Tue Oct 25 09:39:26 2016  MSVOA-12
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1st 10/25/16
2nd 10/25/16

Data Path : I:\ACQUDATA\msvoa12\Data\102416\
Data File : P5889.D
Acq On : 24 Oct 2016 9:40 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Sep 27 11:08:18 2016



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1625

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	88116	PASS
75	95	30	60	49.7	215467	PASS
95	95	100	100	100.0	433429	PASS
96	95	5	9	6.8	29349	PASS
173	174	0.00	2	1.6	5363	PASS
174	95	50	120	77.5	335787	PASS
175	174	5	9	8.1	27077	PASS
176	174	95	101	96.6	324277	PASS
177	176	5	9	6.2	20126	PASS

GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\msvoa12\Data\102616\P5949.D
Tune Time : 26 Oct 2016 8:10 am

Daily Calibration File : I:\ACQUDATA\msvoa12\Data\102616\P5950.D

						823472	1332580	1231340
						634676		
File	Sample	Surrogate Recovery %				Internal Standard Responses		
P5950.D								
	CCV	110	103	115	107	823472	1332583	1231338
						634676		
P5951.D								
	LCS	110	105	115	104	820171	1330915	1211757
						625631		
P5952.D								
	VBLK	109	102	114	105	832314	1339995	1214732
						621348		
P5953.D								
	VBLK	108	106	113	105	821142	1315339	1188453
						626401		
P5954.D								
	R1611185-0	109	102	111	104	820432	1335038	1220268
						616225		
P5955.D								
	R1611185-0	110	110	111	107	812323	1320954	1200452
						626121		
P5956.D								
	R1611185-0	110	106	113	105	816586	1308789	1195493
						610945		
P5957.D								
	R1611185-0	111	108	113	105	810641	1310673	1199275
						624807		
P5958.D								
	R1611185-0	109	105	112	106	807503	1314387	1201244
						622883		
P5959.D								
	R1611185-0	109	103	108	102	799324	1314746	1196491
						615231		
P5960.D								
	R1611185-0	110	108	112	104	808176	1303219	1195057
						607462		
P5961.D								
	R1611185-0	115	113	107	104	789478	1216905	1110612
						566458		
P5962.D								
	R1611185-0	111	102	114	105	815065	1306679	1185277
						604094		
P5963.D								

1st 10/27/16
2nd 10/27/16

```
         R1611185-0  109  107  112  104      822560    1308656    1183620
                                611042
-------------------------------------------------------------------------
P5964.D
         R1611185-0  110  104  112  104      822208    1311106    1190392
                                612935
-------------------------------------------------------------------------
P5965.D
         R1611185-0  110  106  110  104      804040    1312073    1178425
                                621092
-------------------------------------------------------------------------
P5966.D
         R1611185-0  111  106  111  103      806096    1311255    1184243
                                607866
-------------------------------------------------------------------------
P5967.D
         R1611185-0  109  105  112  105      807066    1293159    1187173
                                611940
-------------------------------------------------------------------------
P5968.D
         R1611185-0  112  107  116  109      797761    1288289    1207752
                                625994
-------------------------------------------------------------------------
P5969.D
         R1611185-0  110  105  115  109      803196    1298439    1207186
                                627528
-------------------------------------------------------------------------
P5970.D
         R1611201-0  109  104  113  104      821056    1317381    1211064
                                623837
-------------------------------------------------------------------------
P5971.D
         R1611201-0  108  105  113  106      814492    1314339    1198284
                                624009
-------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

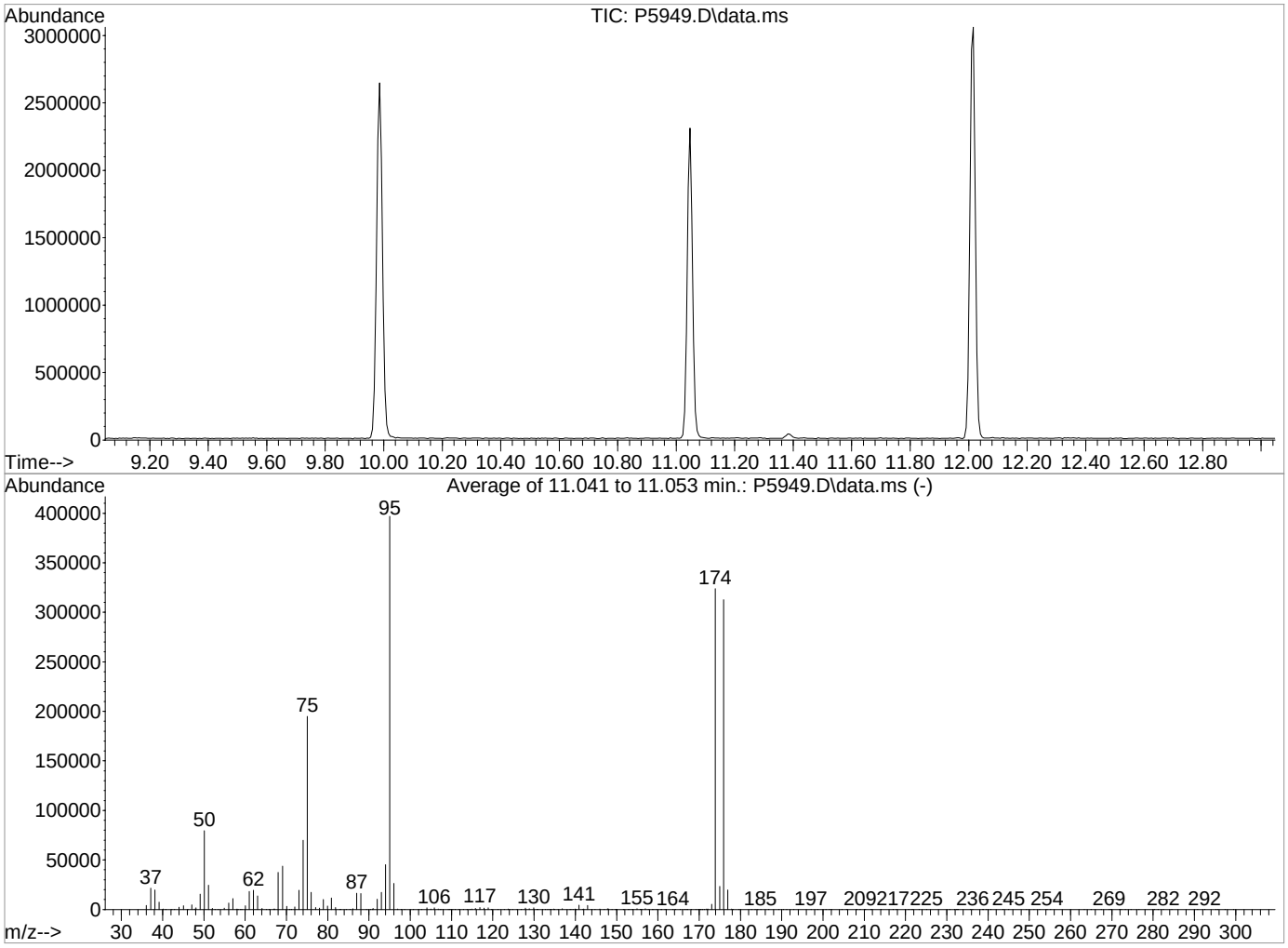
    Created: Thu Oct 27 10:15:10 2016  MSVOA-12
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1st 10/26/16
2nd 10/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\102616\
Data File : P5949.D
Acq On : 26 Oct 2016 8:10 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Sep 27 11:08:18 2016



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

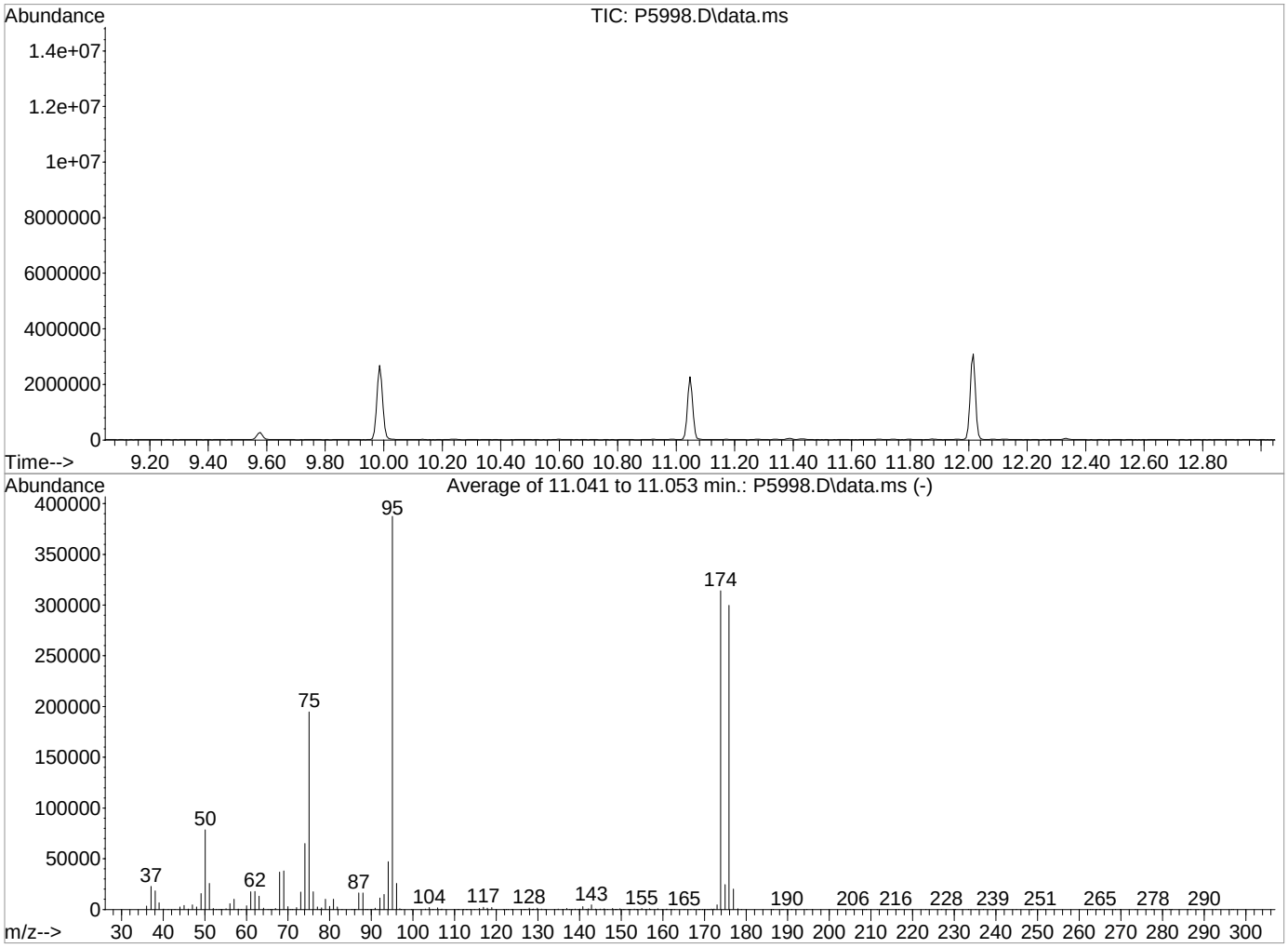
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	79403	PASS
75	95	30	60	49.1	194882	PASS
95	95	100	100	100.0	397026	PASS
96	95	5	9	6.6	26397	PASS
173	174	0.00	2	1.6	5129	PASS
174	95	50	120	81.6	323989	PASS
175	174	5	9	7.2	23251	PASS
176	174	95	101	96.6	312875	PASS
177	176	5	9	6.3	19846	PASS

1st 10/27/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P5998.D
Acq On : 27 Oct 2016 10:19 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc : (HIGH GAS)
ALS Vial : 1 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Sep 27 11:08:18 2016



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1625

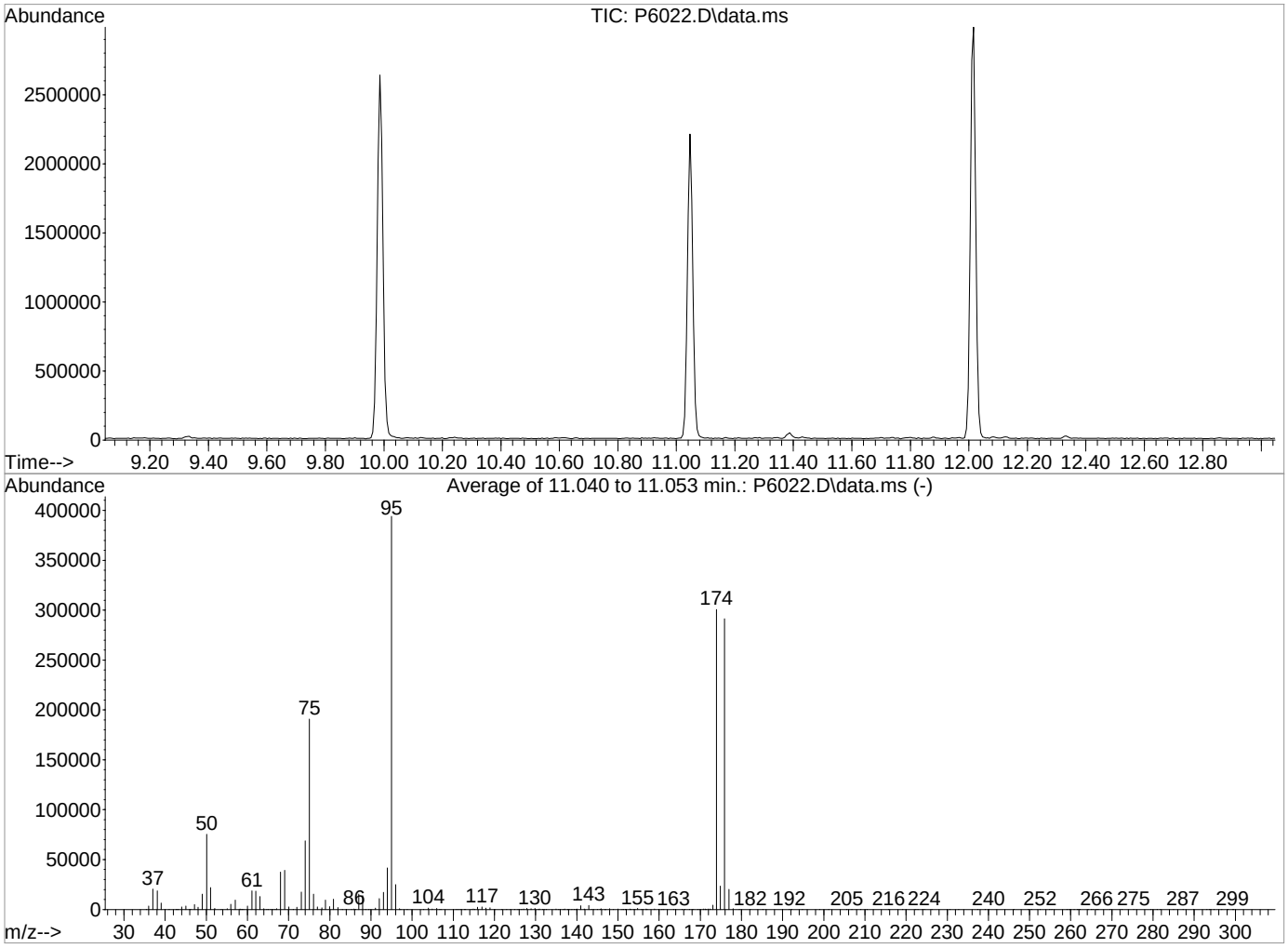
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	78600	PASS
75	95	30	60	50.2	194667	PASS
95	95	100	100	100.0	387584	PASS
96	95	5	9	6.6	25683	PASS
173	174	0.00	2	1.5	4637	PASS
174	95	50	120	81.1	314176	PASS
175	174	5	9	7.8	24643	PASS
176	174	95	101	95.4	299712	PASS
177	176	5	9	6.7	20128	PASS

1st 10/28/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102716\
Data File : P6022.D
Acq On : 27 Oct 2016 10:23 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Sep 27 11:08:18 2016



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1625

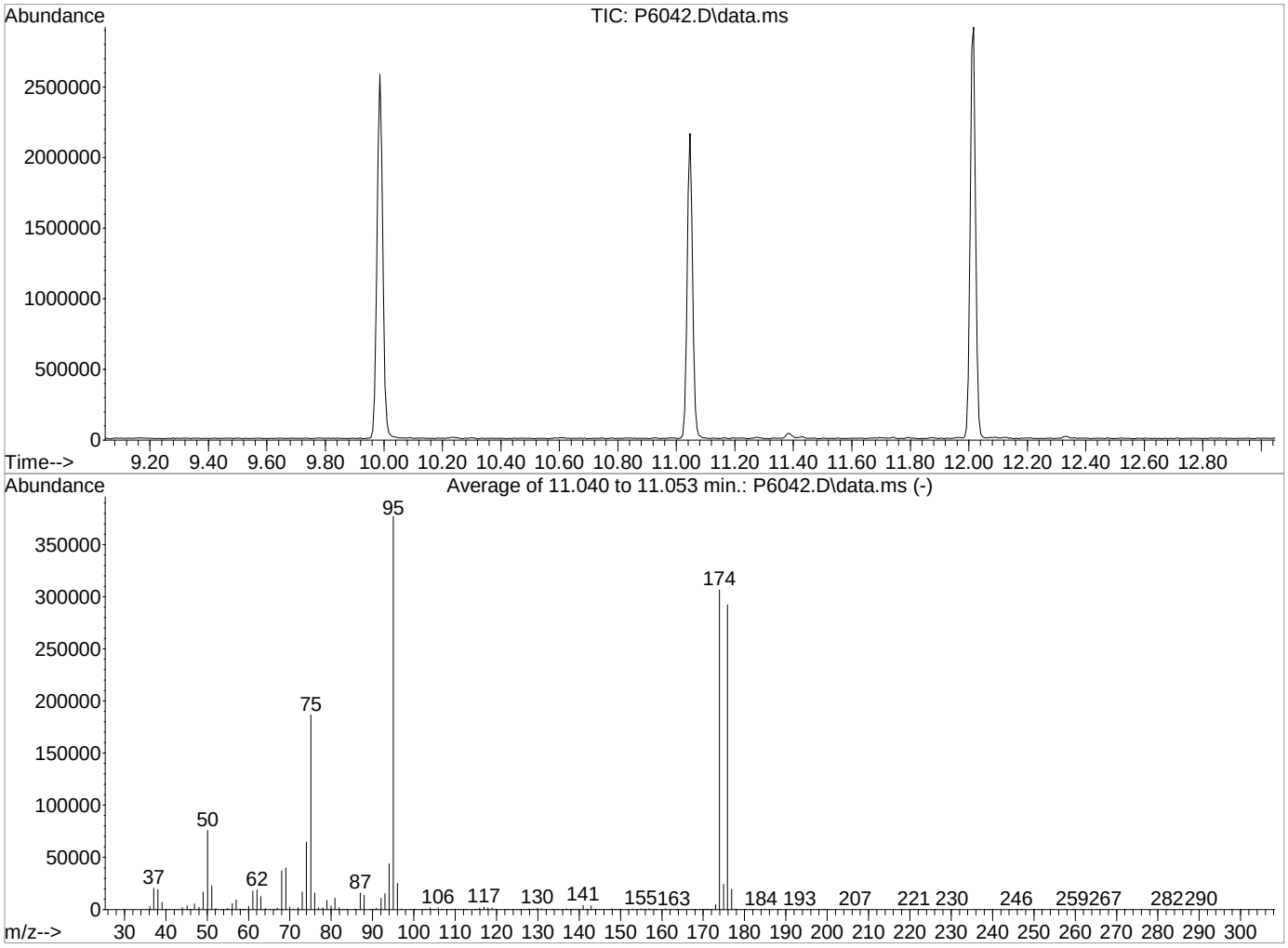
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	75355	PASS
75	95	30	60	48.4	190699	PASS
95	95	100	100	100.0	394155	PASS
96	95	5	9	6.4	25075	PASS
173	174	0.00	2	1.5	4386	PASS
174	95	50	120	76.3	300629	PASS
175	174	5	9	7.8	23403	PASS
176	174	95	101	96.9	291271	PASS
177	176	5	9	6.9	20211	PASS

1st 10/28/16
2nd 10/31/16

Data Path : I:\ACQUDATA\msvoa12\Data\102816\
Data File : P6042.D
Acq On : 28 Oct 2016 9:11 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Sep 27 11:08:18 2016



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	75757	PASS
75	95	30	60	49.4	186560	PASS
95	95	100	100	100.0	377343	PASS
96	95	5	9	6.7	25140	PASS
173	174	0.00	2	1.6	4786	PASS
174	95	50	120	81.2	306562	PASS
175	174	5	9	7.9	24128	PASS
176	174	95	101	95.4	292501	PASS
177	176	5	9	6.6	19216	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	780255	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1210286	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1145329	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	642727	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	359299	55.62	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 111.24%				
48) surr1,1,2-dichloroetha...	6.096	65	404443	55.12	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 110.24%				
65) SURR3,Toluene-d8	8.529	98	1492972	56.40	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.80%				
70) SURR2,BFB	11.047	95	580505	56.22	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 112.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	372995	44.03	ppb		95
3) Chloromethane	1.347	50	337782	46.72	ppb		98
4) Vinyl Chloride	1.433	62	310173	50.25	ppb		95
5) Bromomethane	1.683	94	168924	47.97	ppb		90
6) Chloroethane	1.768	64	151250	50.90	ppb		94
7) Freon 21	1.927	67	372929	45.63	ppb		98
8) Trichlorofluoromethane	1.975	101	328125	45.92	ppb		98
9) Diethyl Ether	2.231	59	152560	48.40	ppb		94
10) Freon 123a	2.237	67	230239	46.32	ppb		85
11) Freon 123	2.292	83	298606	46.26	ppb		97
12) Acrolein	2.341	56	51608	121.00	ppb		99
13) 1,1-Diclethene	2.426	96	251600	46.36	ppb		95
14) Freon 113	2.439	101	251825	43.77	ppb		99
15) Acetone	2.487	43	65999	51.87	ppb		87
16) 2-Propanol	2.646	45	277680	1023.23	ppb		99
17) Iodomethane	2.573	142	369233	50.63	ppb		100
18) Carbon Disulfide	2.634	76	904257	52.94	ppb		99
19) Acetonitrile	2.756	40	51967	232.00	ppb	#	91
20) Allyl Chloride	2.798	76	135605	42.98	ppb	#	86
21) Methyl Acetate	2.829	43	144085	49.98	ppb		96
22) Methylene Chloride	2.926	84	263805	46.10	ppb		99
23) TBA	3.091	59	459807	1064.15	ppb		100
24) Acrylonitrile	3.207	53	361625	244.63	ppb		92
25) Methyl-t-Butyl Ether	3.262	73	747550	49.00	ppb		97
26) trans-1,2-Dichloroethene	3.243	96	271453	44.50	ppb		96
28) 1,1-Diclethane	3.786	63	480664	47.45	ppb		98
29) Vinyl Acetate	3.902	86	37227	40.91	ppb	#	92
30) DIPE	3.944	45	936356	46.94	ppb		100
31) 2-Chloro-1,3-Butadiene	3.926	53	500171	52.14	ppb		97
32) ETBE	4.524	59	858860	48.45	ppb		96
33) 2,2-Dichloropropane	4.706	77	363686	39.89	ppb		97
34) cis-1,2-Dichloroethene	4.719	96	305448	49.06	ppb		96
35) 2-Butanone	4.780	43	98290	56.16	ppb		99
36) Propionitrile	4.871	54	137030	263.42	ppb		83
37) Bromochloromethane	5.145	130	172850	48.61	ppb		92
38) Methacrylonitrile	5.158	67	82489	45.97	ppb		100
39) Tetrahydrofuran	5.237	42	63183	48.22	ppb		100
40) Chloroform	5.328	83	456543	46.30	ppb		99
41) 1,1,1-Trichloroethane	5.596	97	410386	45.12	ppb		99

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	785139	48.99	ppb	99
44) Cyclohexane	5.676	41	290031	44.71	ppb	98
46) Carbontetrachloride	5.859	121	116570	45.74	ppb	97
47) 1,1-Dichloropropene	5.871	75	368331	45.12	ppb	97
49) Benzene	6.170	78	1065724	47.38	ppb	98
50) 1,2-Dichloroethane	6.212	62	354439	48.51	ppb	98
51) Iso-Butyl Alcohol	6.200	43	213061	1083.87	ppb	89
52) n-Heptane	6.645	43	348747	43.38	ppb	97
53) 1-Butanol	7.114	56	325973	2797.38	ppb	97
54) Trichloroethene	7.084	130	326112	51.03	ppb	98
55) Methylcyclohexane	7.310	55	363428	45.47	ppb	97
56) 1,2-Diclpropane	7.358	63	290577	48.69	ppb	96
57) Dibromomethane	7.492	93	148724	46.75	ppb	95
58) 1,4-Dioxane	7.547	88	46639m	965.28	ppb	
59) Methyl Methacrylate	7.578	69	170773	51.98	ppb	97
60) Bromodichloromethane	7.712	83	353386	45.75	ppb	99
61) 2-Nitropropane	7.986	41	114774	98.83	ppb	96
62) 2-Chloroethylvinyl Ether	8.108	63	139631	54.73	ppb	97
63) cis-1,3-Dichloropropene	8.242	75	464249	47.95	ppb	98
64) 4-Methyl-2-pentanone	8.437	43	225216	56.35	ppb	96
66) Toluene	8.602	91	1203438	48.14	ppb	100
67) trans-1,3-Dichloropropene	8.864	75	408426	47.06	ppb	98
68) Ethyl Methacrylate	8.998	69	343802	51.16	ppb	98
69) 1,1,2-Trichloroethane	9.047	97	219962	50.53	ppb	97
72) Tetrachloroethene	9.181	164	241123	46.89	ppb	98
73) 2-Hexanone	9.327	43	163152	57.42	ppb	96
74) 1,3-Dichloropropane	9.212	76	403622	49.65	ppb	98
75) Dibromochloromethane	9.437	129	267187	50.09	ppb	98
76) N-Butyl Acetate	9.480	43	387763	48.58	ppb	96
77) 1,2-Dibromoethane	9.529	107	229129	51.51	ppb	99
78) Chlorobenzene	10.016	112	805391	47.33	ppb	97
79) 3-CBTF	10.029	180	429058	45.60	ppb	94
80) 4-CBTF	10.083	180	379377	44.59	ppb	97
81) 1,1,1,2-Tetrachloroethane	10.102	131	295614	48.71	ppb	98
82) Ethylbenzene	10.132	106	449447	48.46	ppb	98
83) (m+p)Xylene	10.242	106	1108861	99.05	ppb	99
84) o-Xylene	10.596	106	554067	48.36	ppb	98
85) Styrene	10.608	104	948564	50.63	ppb	99
87) Bromoform	10.760	173	161658	53.76	ppb	87
88) 2-CBTF	10.833	180	426534	44.77	ppb	95
89) Isopropylbenzene	10.925	105	1395394	48.17	ppb	97
90) Cyclohexanone	10.986	55	273349	974.98	ppb	98
91) trans-1,4-Dichloro-2-B...	11.230	53	77781	48.92	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.181	83	247635	46.66	ppb	94
93) Bromobenzene	11.169	156	366798	47.72	ppb	97
94) 1,2,3-Trichloropropane	11.211	110	84830	50.18	ppb	94
95) n-Propylbenzene	11.278	91	1634759	48.41	ppb	99
96) 2-Chlorotoluene	11.339	91	971831	48.67	ppb	98
97) 3-Chlorotoluene	11.394	91	967342	47.01	ppb	98
98) 4-Chlorotoluene	11.437	91	1131629	47.98	ppb	96
99) 1,3,5-Trimethylbenzene	11.431	105	1186475	48.80	ppb	99
100) tert-Butylbenzene	11.699	119	1059899	49.09	ppb	99
101) 1,2,4-Trimethylbenzene	11.736	105	1220976	48.18	ppb	100
102) 3,4-DCBTF	11.797	214	334458	45.16	ppb	99
103) sec-Butylbenzene	11.882	105	1500626	49.20	ppb	98
104) p-Isopropyltoluene	12.004	119	1325028	49.83	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	705579	47.74	ppb	96
106) 1,4-Dclbenz	12.034	146	729663	48.83	ppb	95
107) 2,4-DCBTF	12.089	214	311515	45.39	ppb	94
108) 2,5-DCBTF	12.126	214	347047	44.44	ppb	97
109) n-Butylbenzene	12.333	91	1127672	47.96	ppb	98
110) 1,2-Dclbenz	12.333	146	684255	49.75	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.955	157	59394	51.54	ppb	88
112) Trielution Dichlorotol...	13.071	125	1808096	144.41	ppb	99
113) 1,3,5 Trichlorobenzene	13.126	180	515815	47.06	ppb	99
114) Coelution Dichlorotoluene	13.400	125	1323223	97.82	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	495607	49.80	ppb	96
116) Hexachlorobt	13.747	225	191948	45.65	ppb	99
117) Naphthalen	13.796	128	950191	55.11	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	427198	49.81	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	288208	47.77	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	262756	47.08	ppb	98

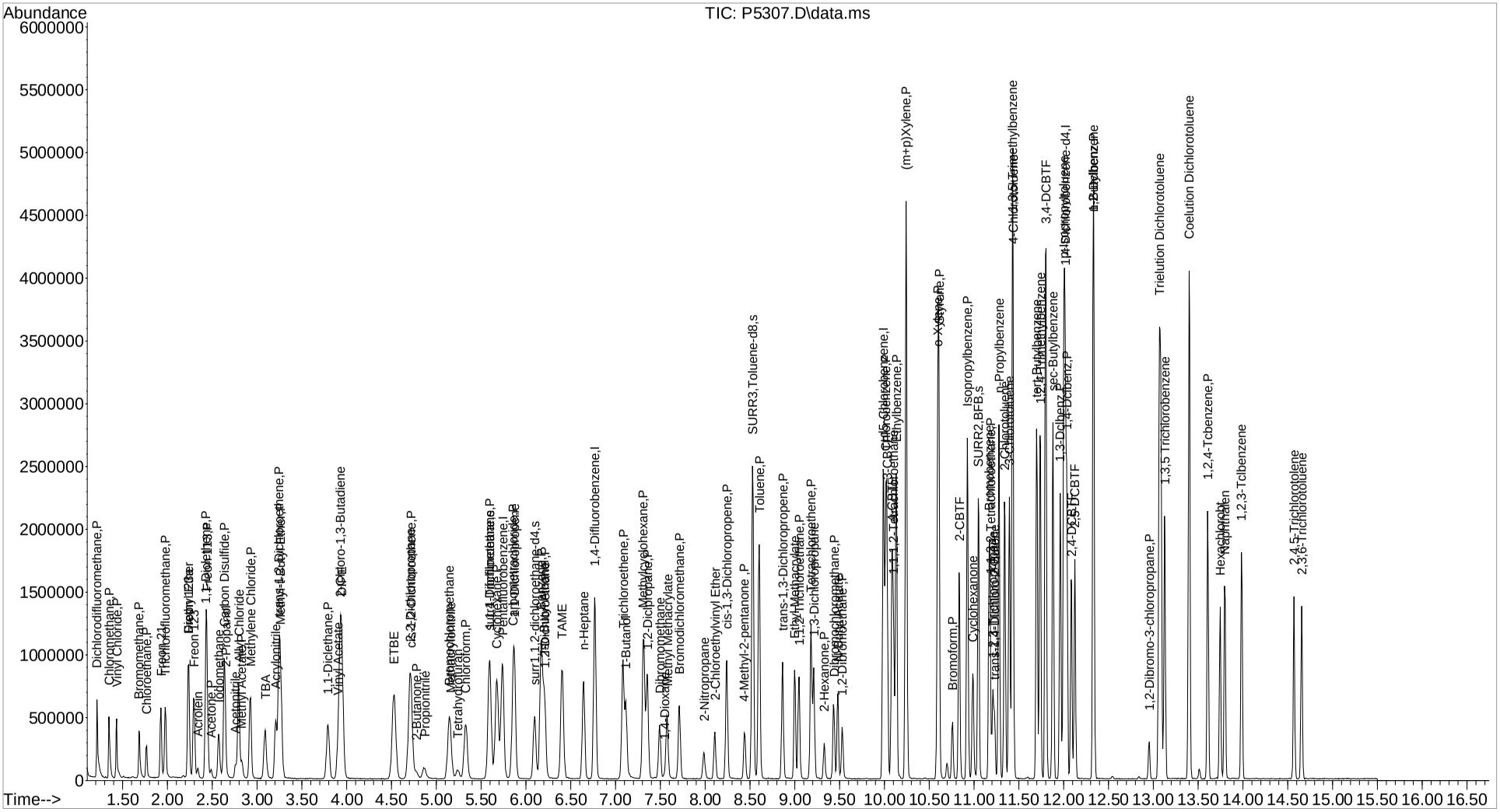
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

1st 09/27/16
2nd 09/27/16

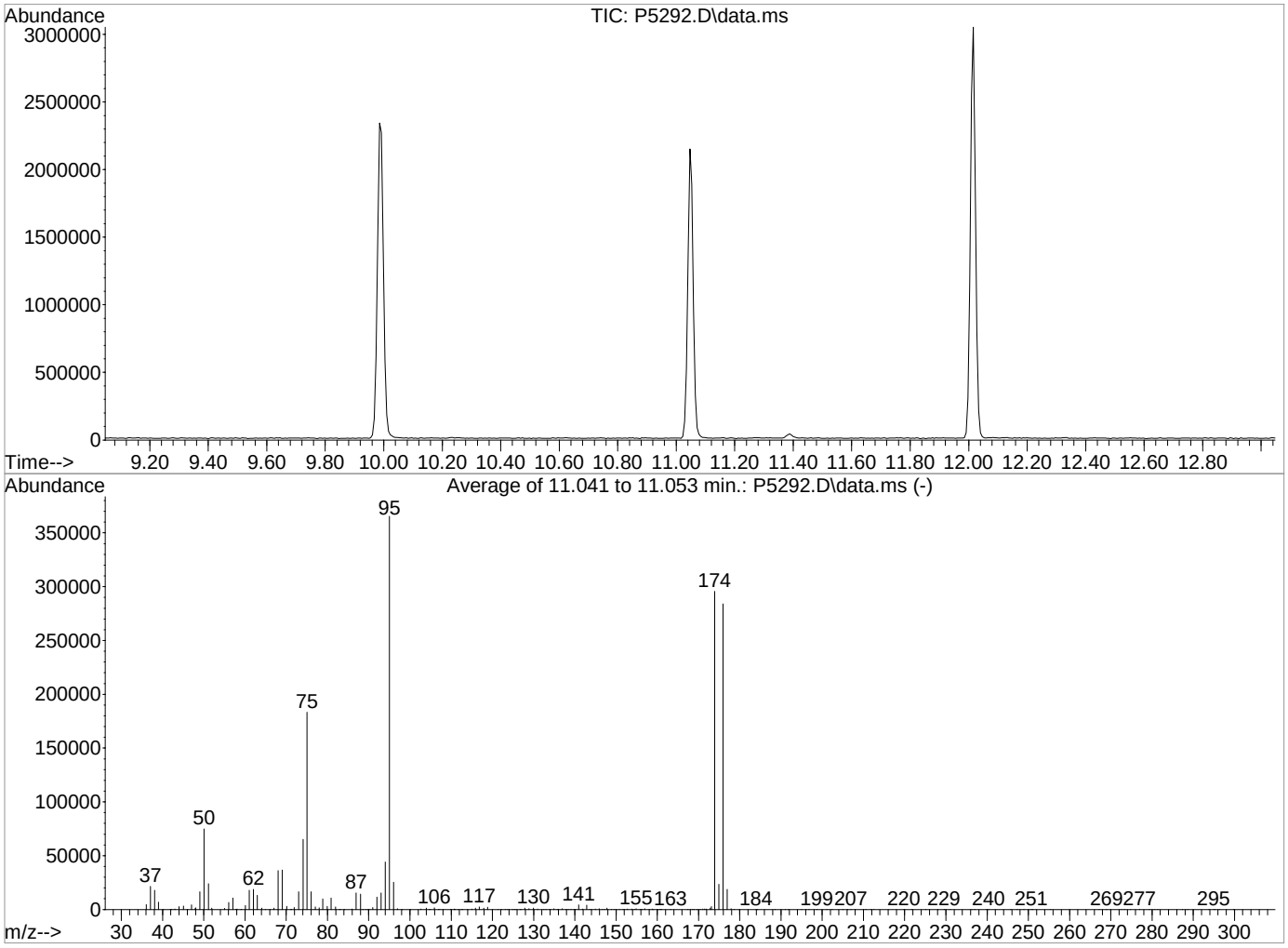


1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5292.D
Acq On : 26 Sep 2016 4:14 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Mon Sep 26 16:05:58 2016



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	74797	PASS
75	95	30	60	50.2	183347	PASS
95	95	100	100	100.0	365483	PASS
96	95	5	9	6.9	25269	PASS
173	174	0.00	2	0.9	2665	PASS
174	95	50	120	80.9	295744	PASS
175	174	5	9	7.9	23411	PASS
176	174	95	101	96.1	284096	PASS
177	176	5	9	6.6	18686	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5293.D
Acq On : 26 Sep 2016 4:45 pm
Operator : K.Ruest
Sample : IBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 12:50:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

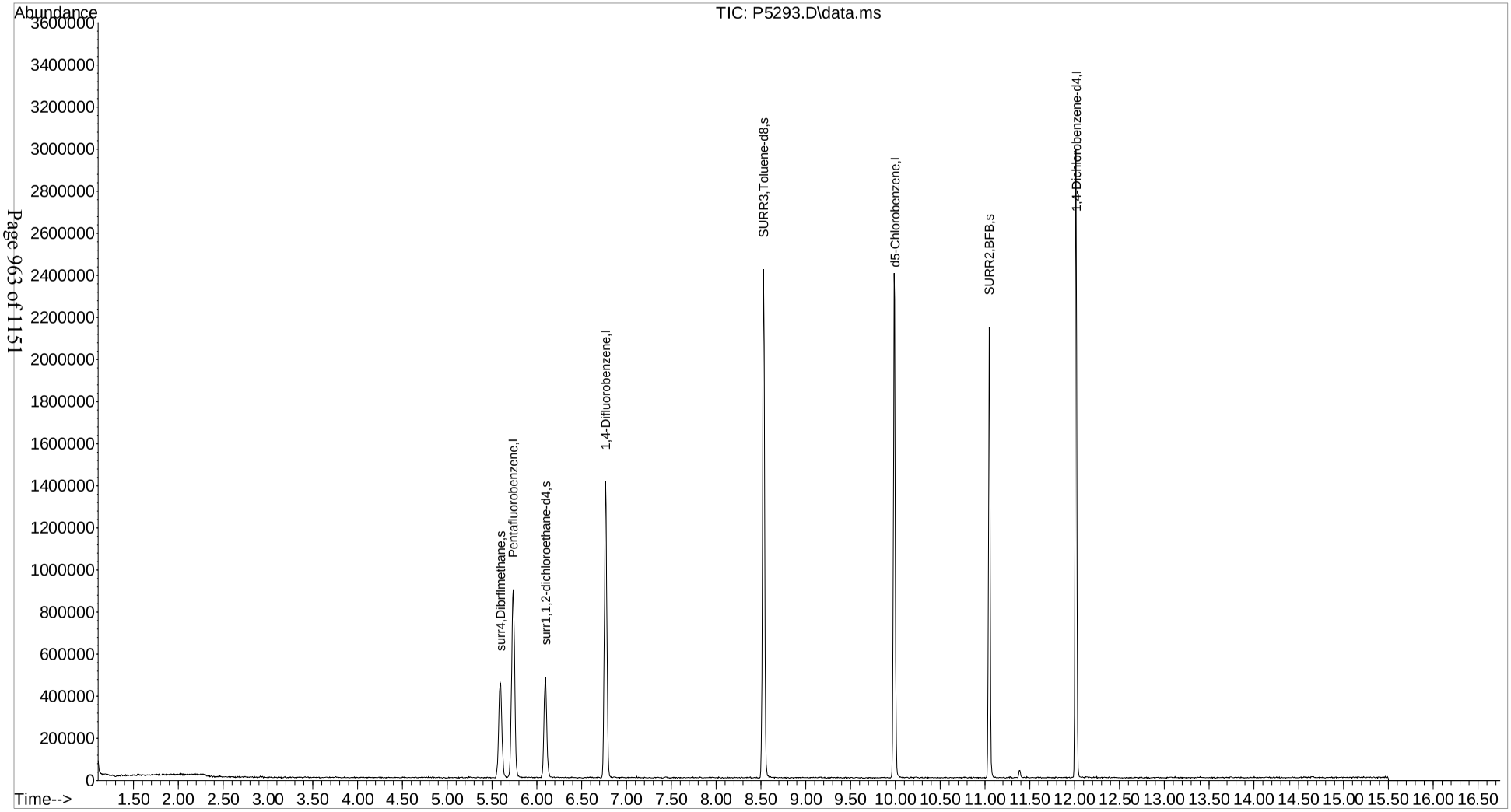
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	758041	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1173525	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1096102	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	590313	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	339841	54.26	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.52%			
48) surr1,1,2-dichloroetha...	6.096	65	377880	53.11	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.22%			
65) SURR3,Toluene-d8	8.529	98	1426810	55.59	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.18%			
70) SURR2,BFB	11.047	95	547957	54.73	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.46%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5293.D
Acq On : 26 Sep 2016 4:45 pm
Operator : K.Ruest
Sample : IBLK Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 12:50:01 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

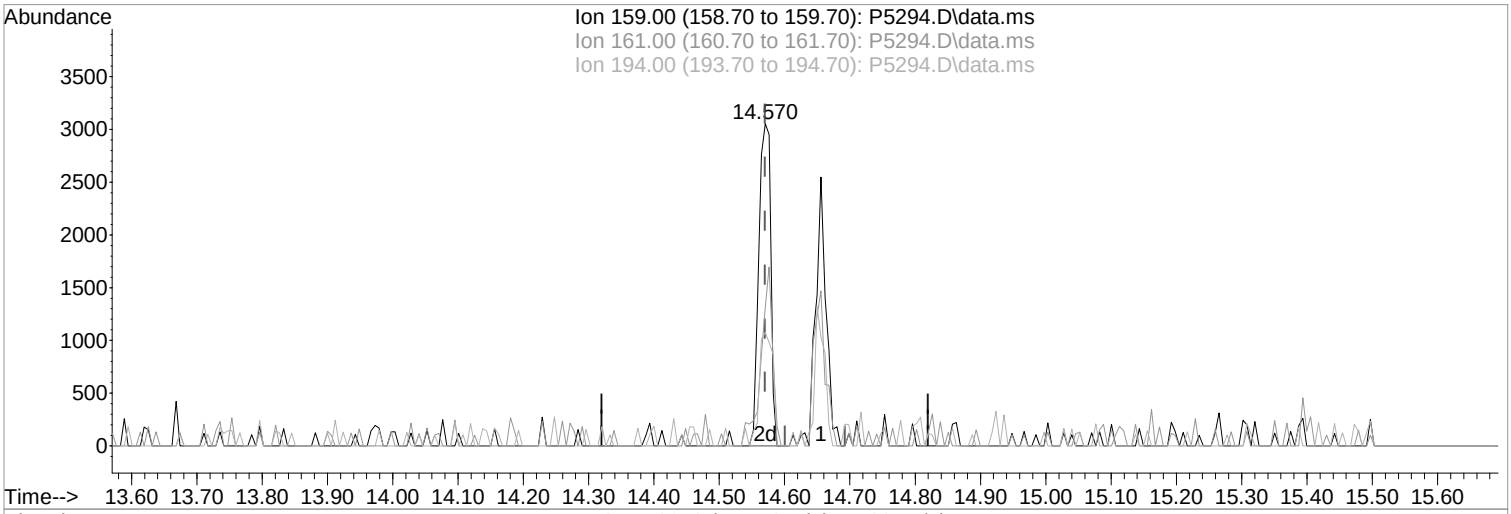


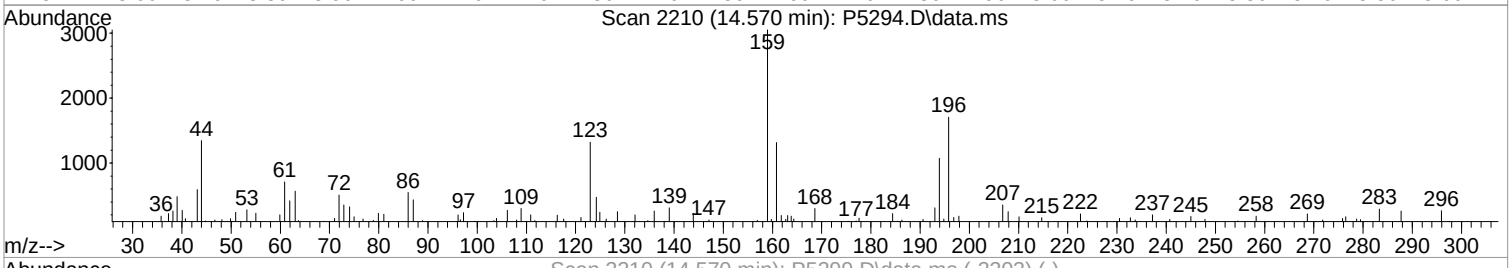
1st 09/27/16
2nd 09/27/16

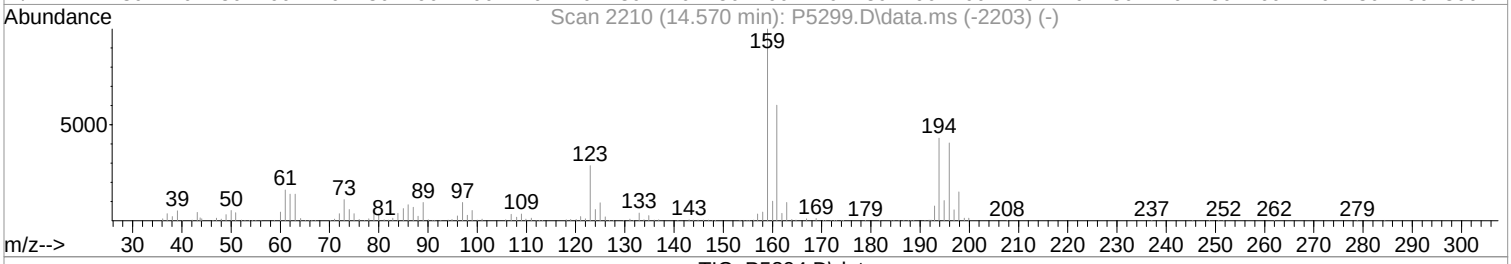
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(119) 2,4,5-Trichlorotolene

14.570min (+0.000) 0.69 ppb m

response 3910

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	43.06#
194.00	43.10	35.23
0.00	0.00	0.00

Manual Integration:

After

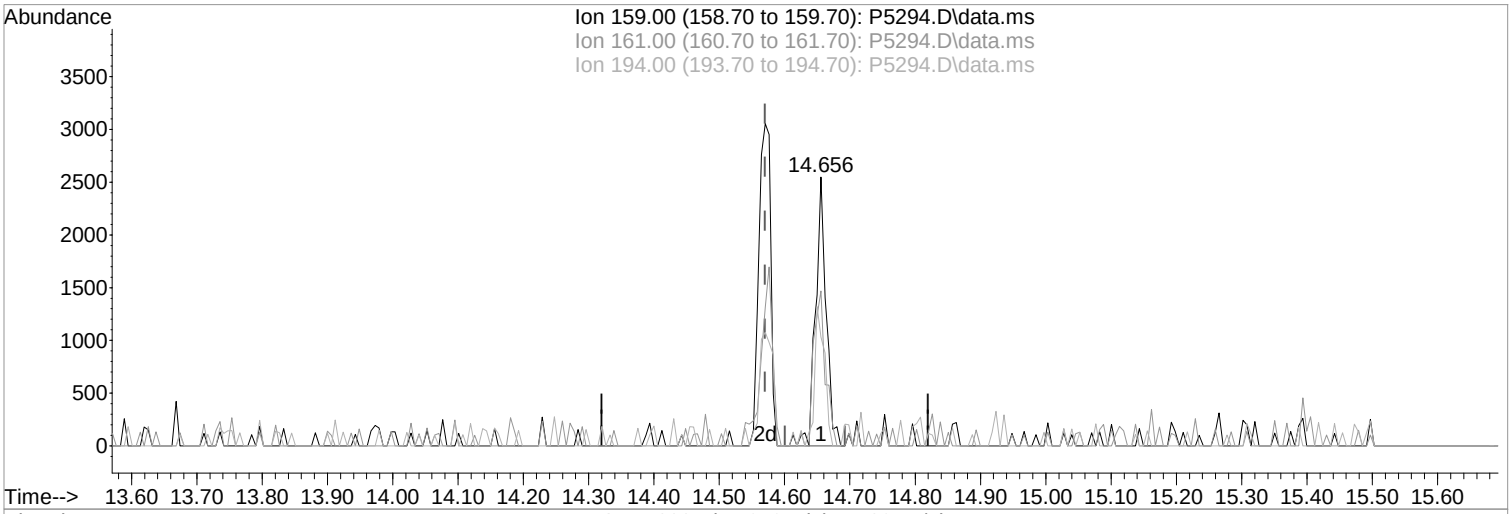
Wrong peak selected.

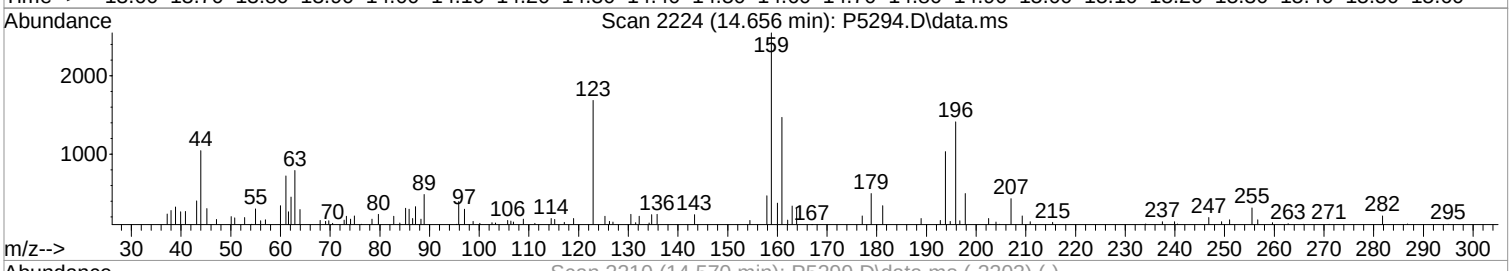
09/27/16

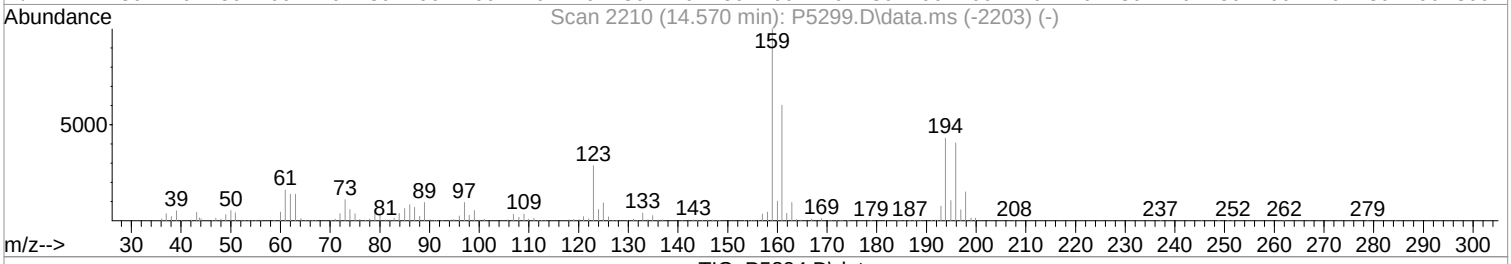
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.086) 0.52 ppb

response 2922

Ion	Exp%	Act%
159.00	100	100
161.00	60.10	57.65
194.00	43.10	40.46
0.00	0.00	0.00

Manual Integration:

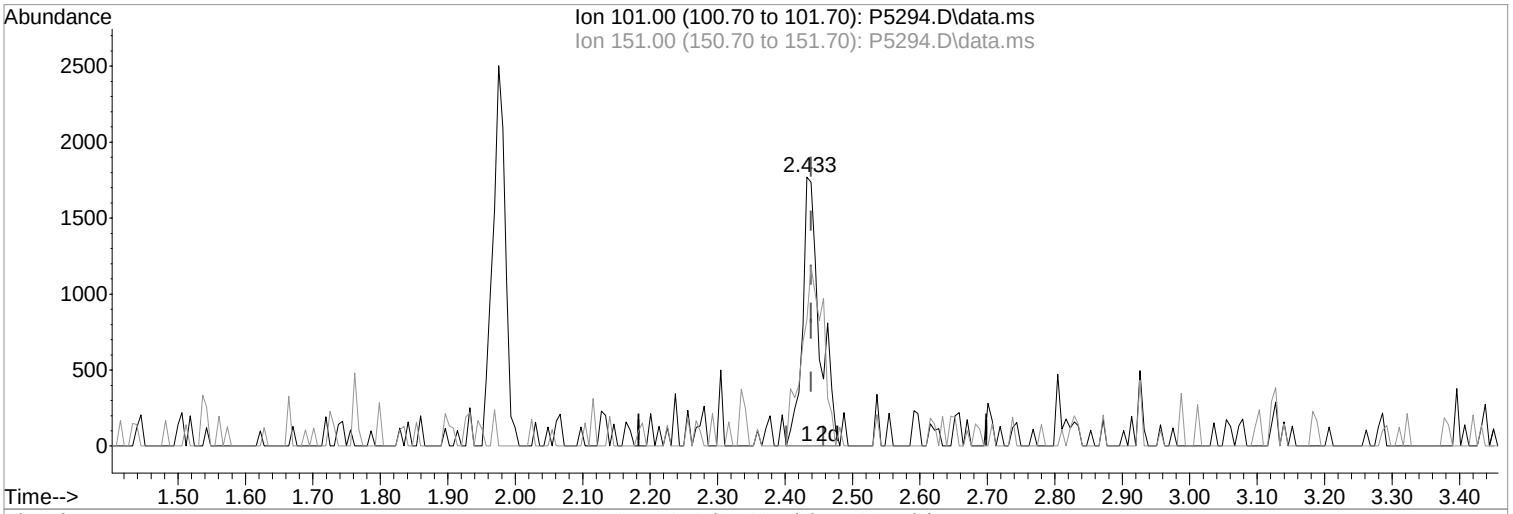
Before

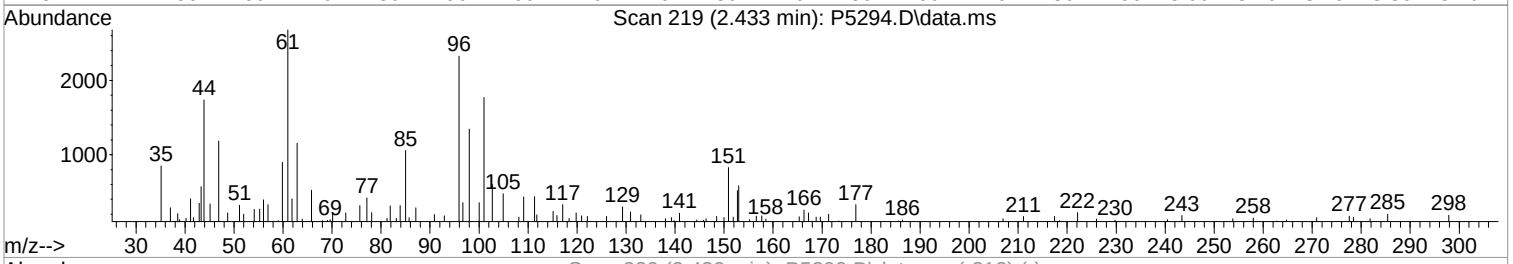
09/27/16

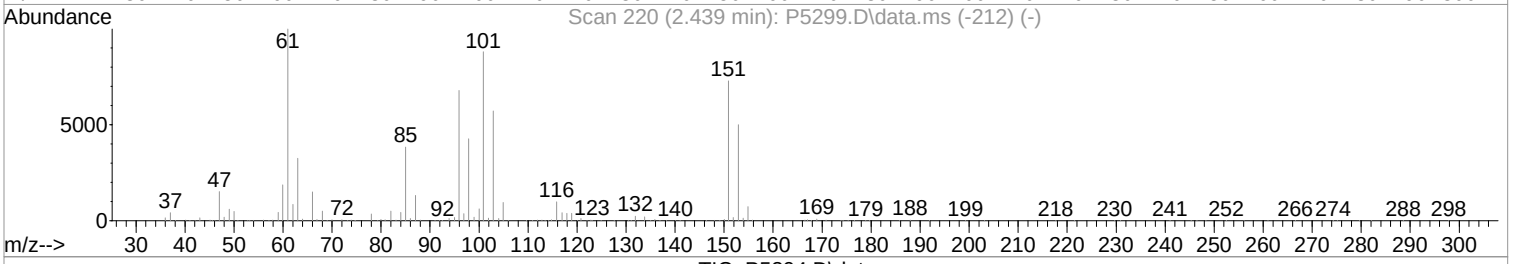
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(14) Freon 113 (P)

2.433min (-0.006) 0.57 ppb m

response 3125

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	46.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

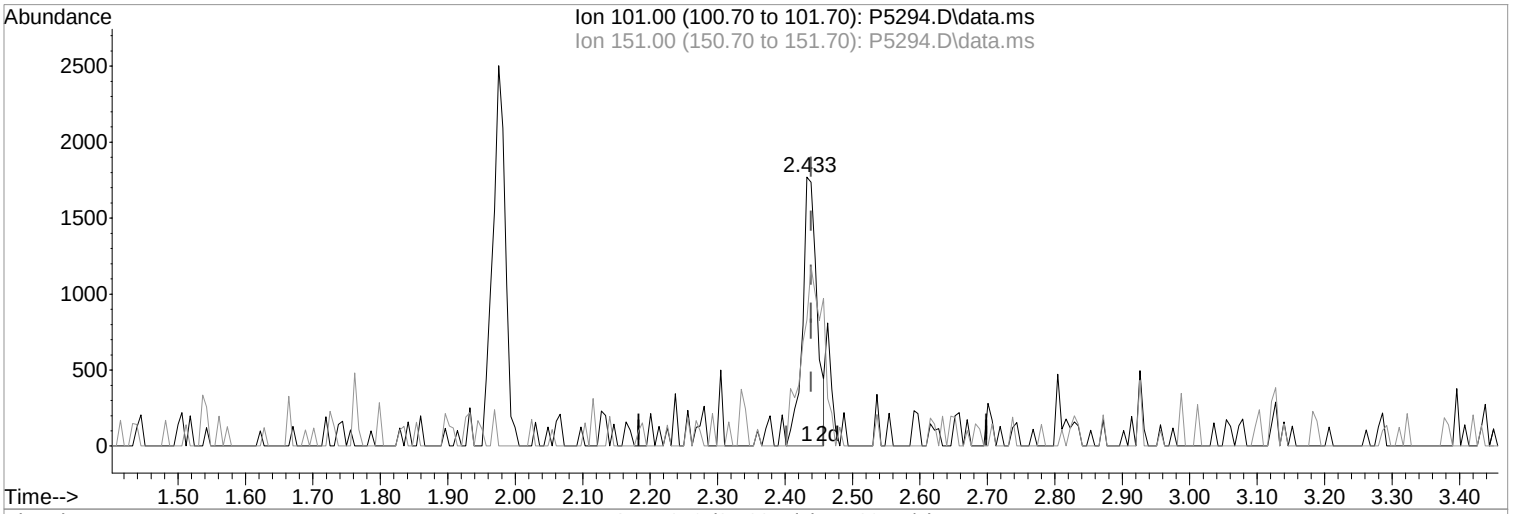
Split Peak

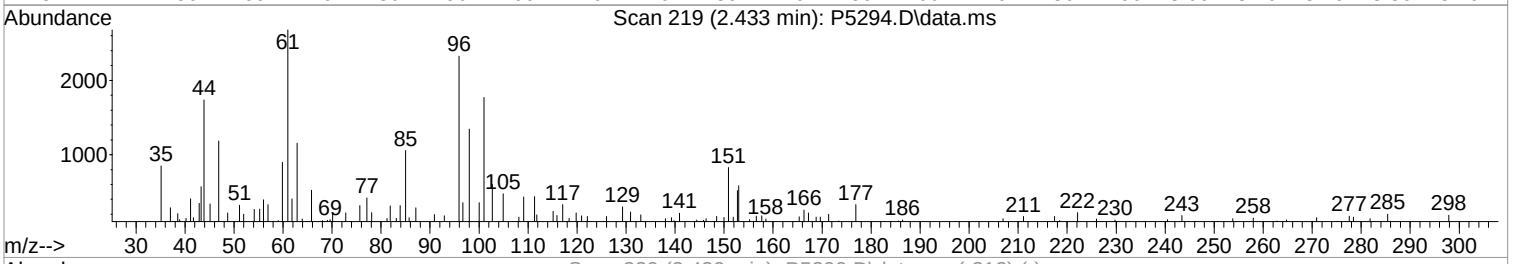
09/27/16

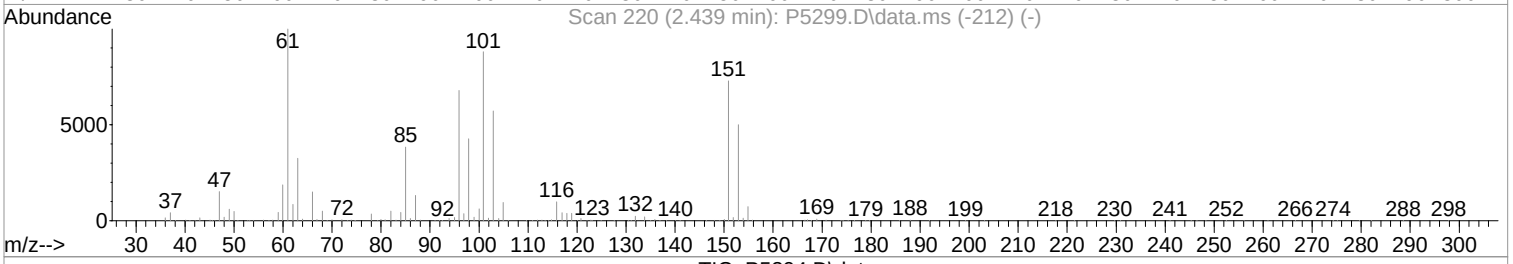
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(14) Freon 113 (P)

2.433min (-0.006) 0.48 ppb

response 2650

Ion	Exp%	Act%
101.00	100	100
151.00	82.60	46.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

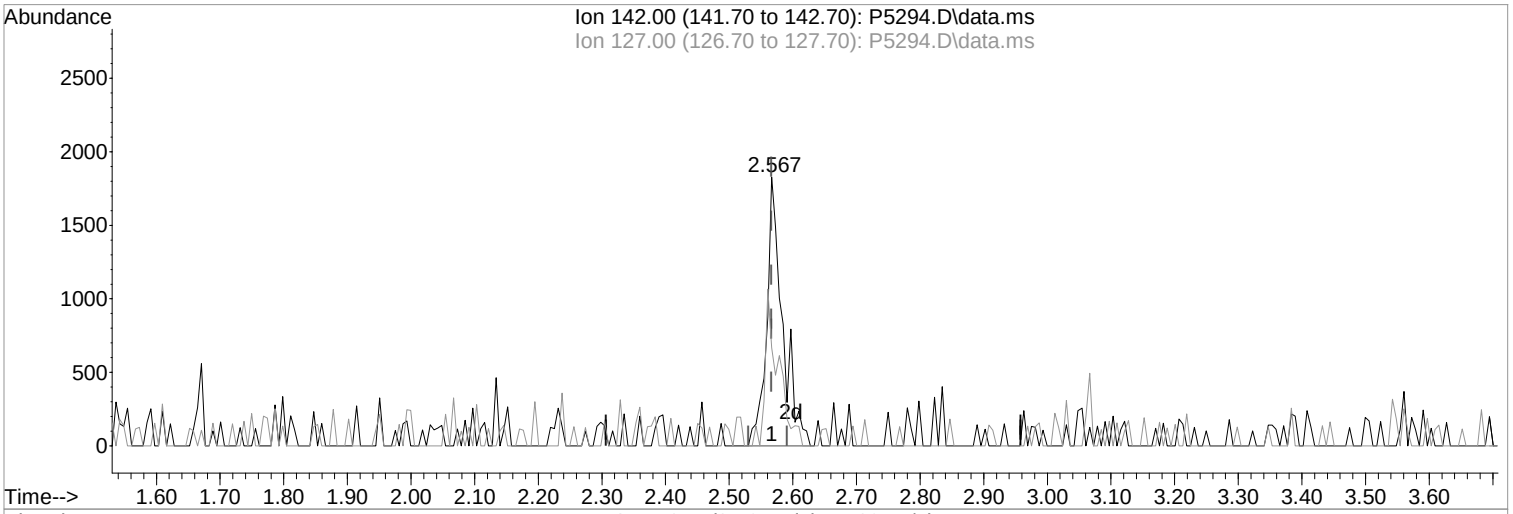
Before

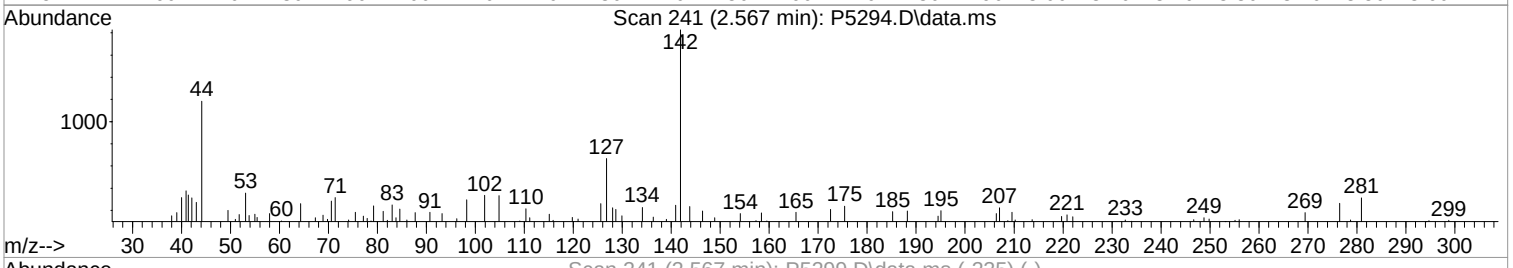
09/27/16

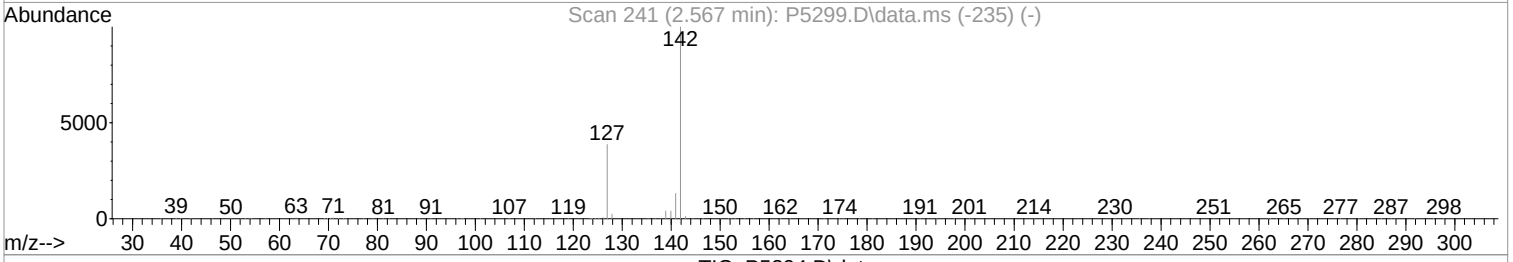
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(17) Iodomethane

2.567min (+0.001) 0.46 ppb m

response 3204

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	36.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

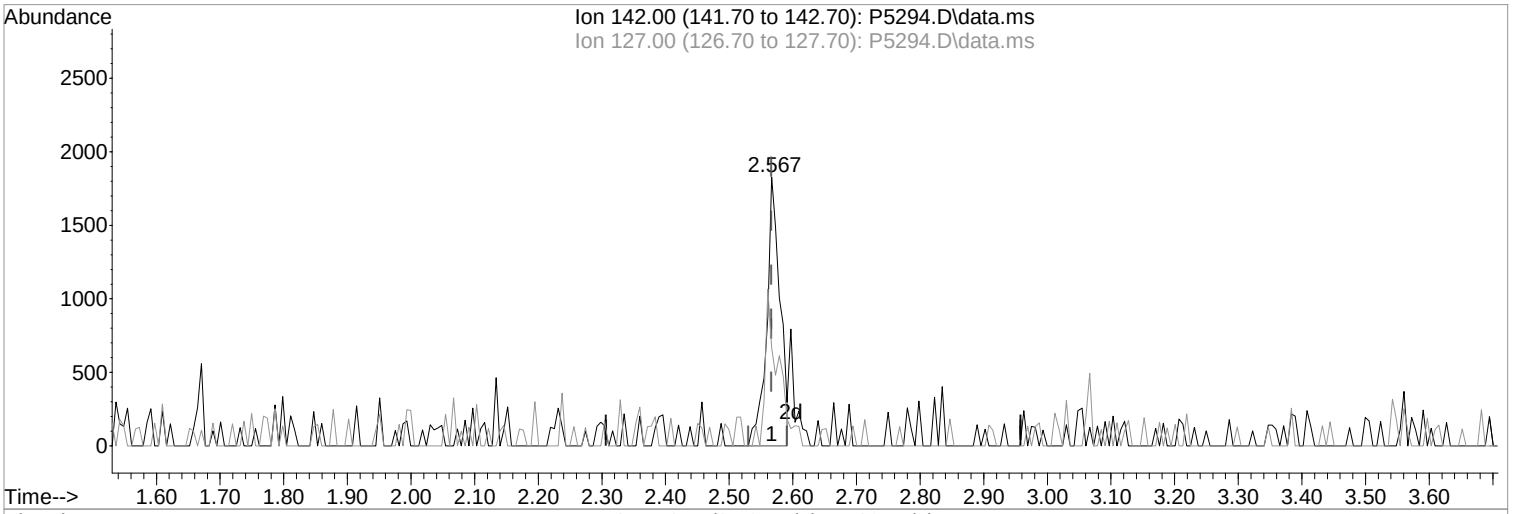
09/27/16

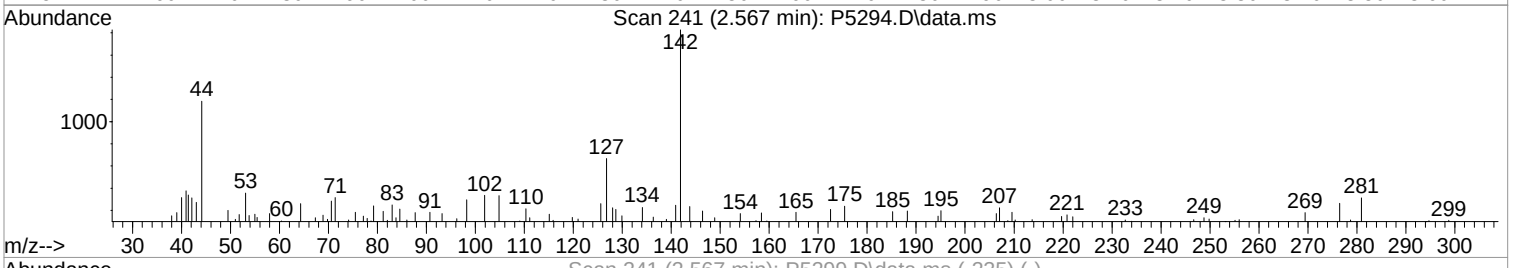
1st 09/27/16
2nd 09/27/16

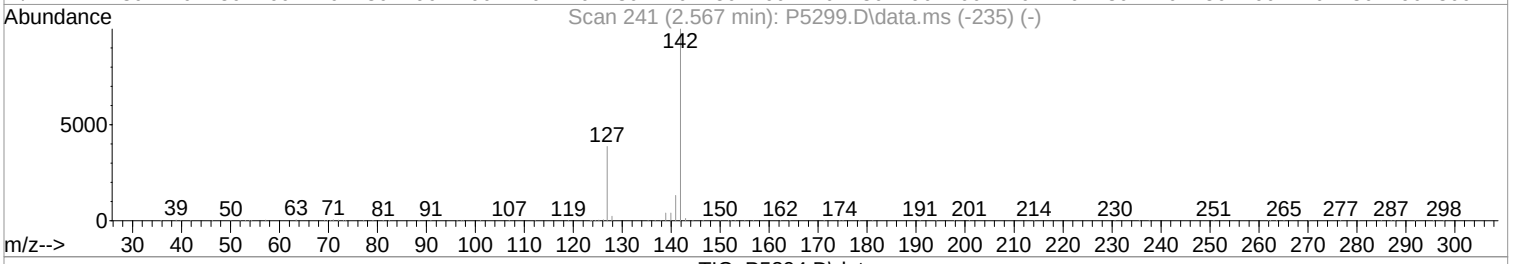
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(17) Iodomethane

2.567min (+0.001) 0.39 ppb

response 2690

Ion	Exp%	Act%
142.00	100	100
127.00	38.70	36.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

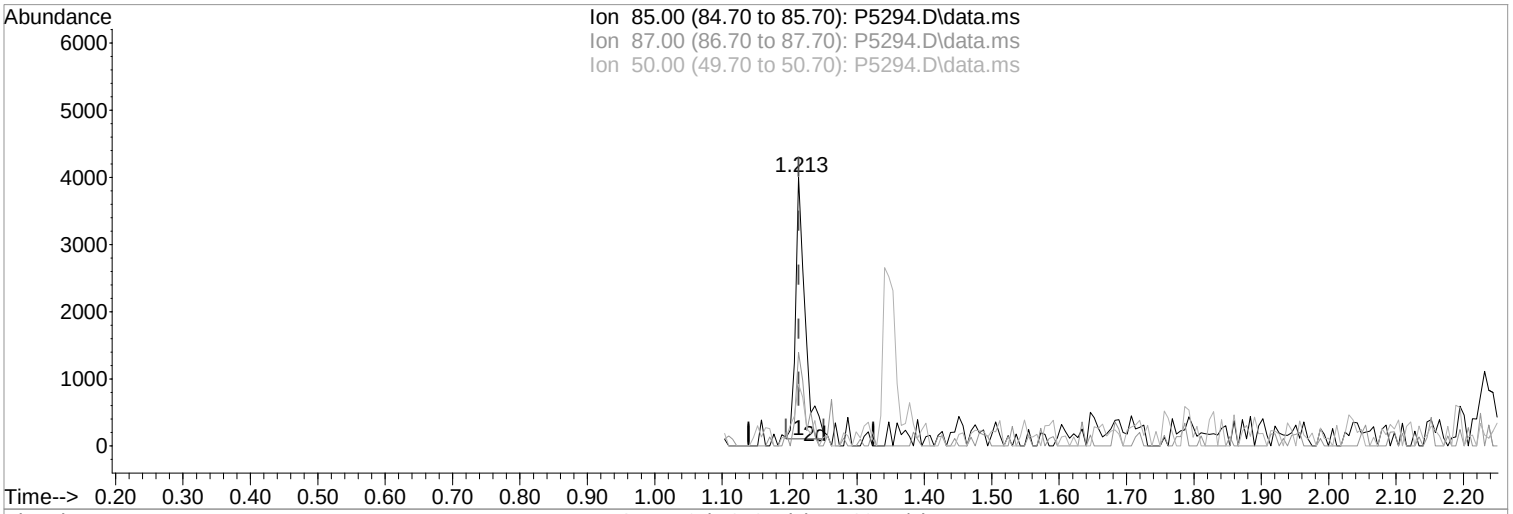
Before

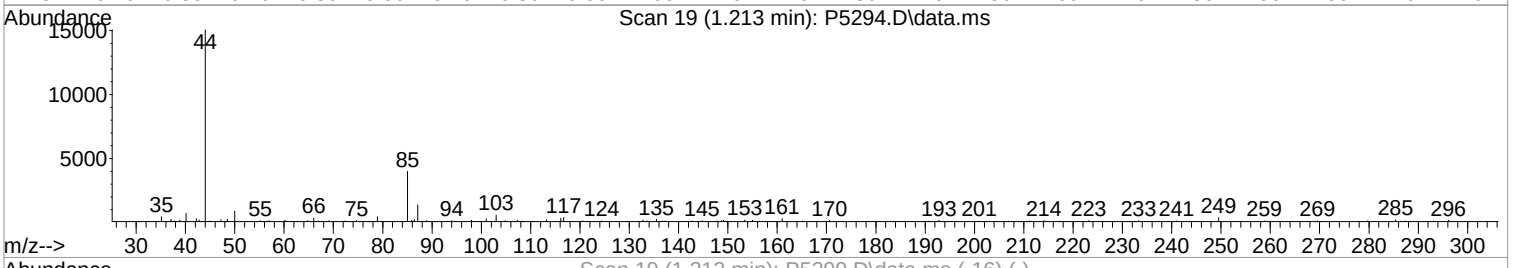
09/27/16

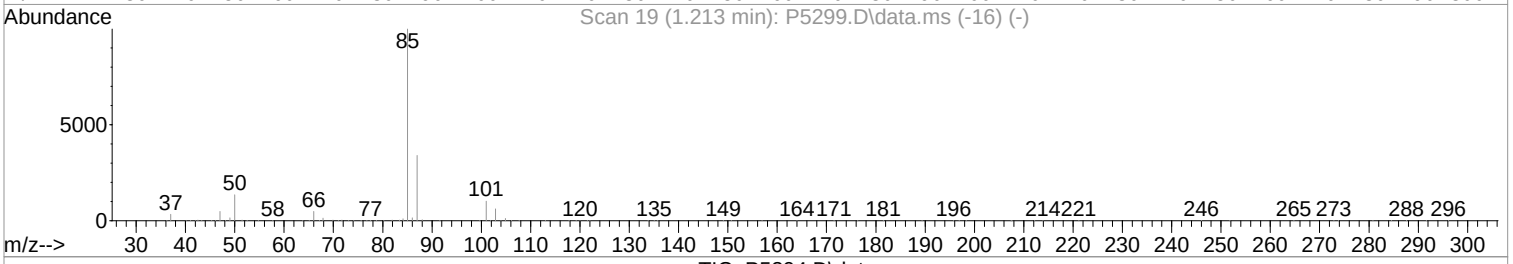
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 0.47 ppb m

response 3803

Ion	Exp%	Act%
85.00	100	100
87.00	34.00	34.77
50.00	13.50	23.04
0.00	0.00	0.00

Manual Integration:

After

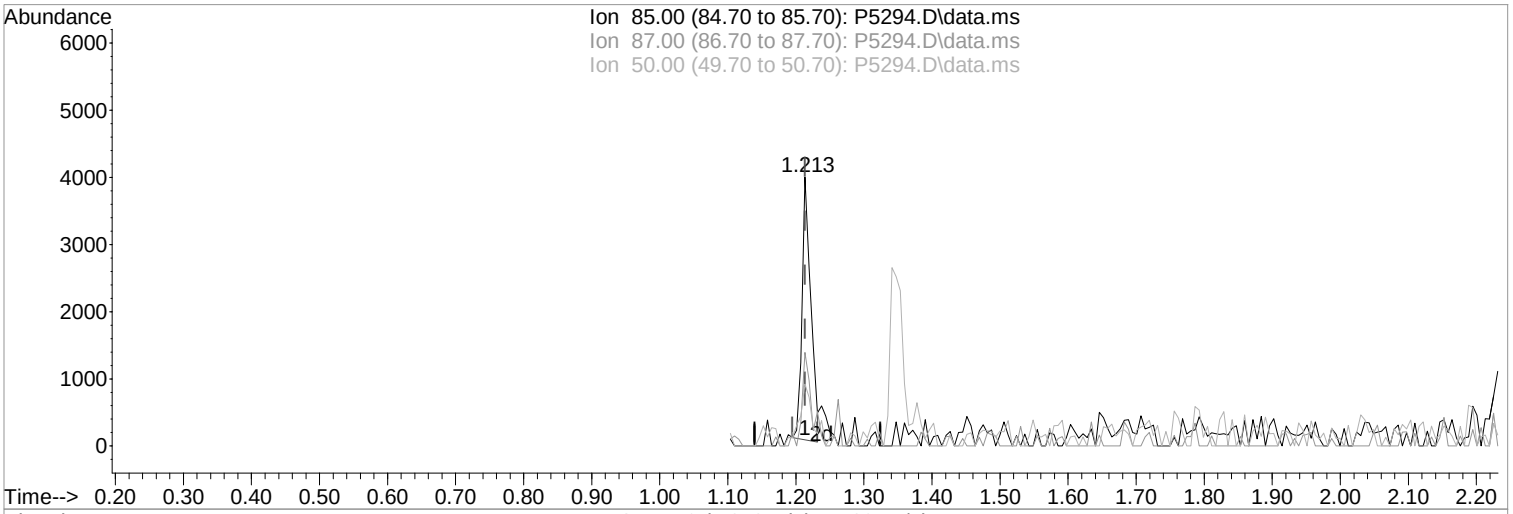
Split Peak

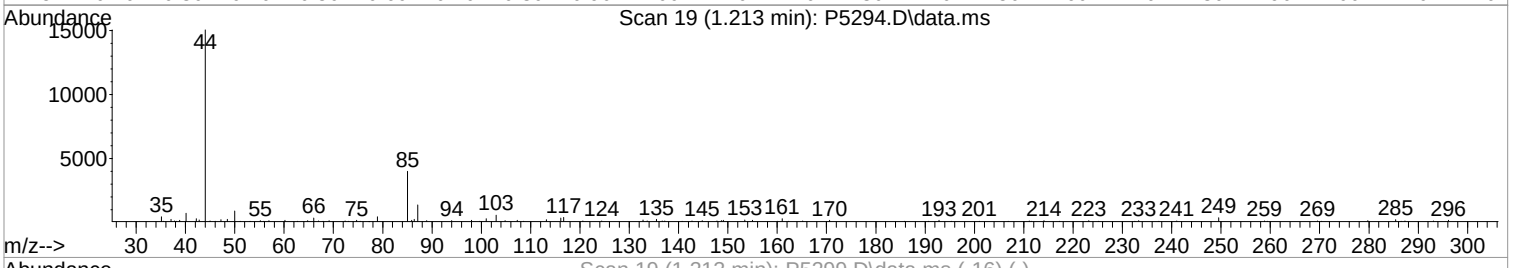
09/27/16

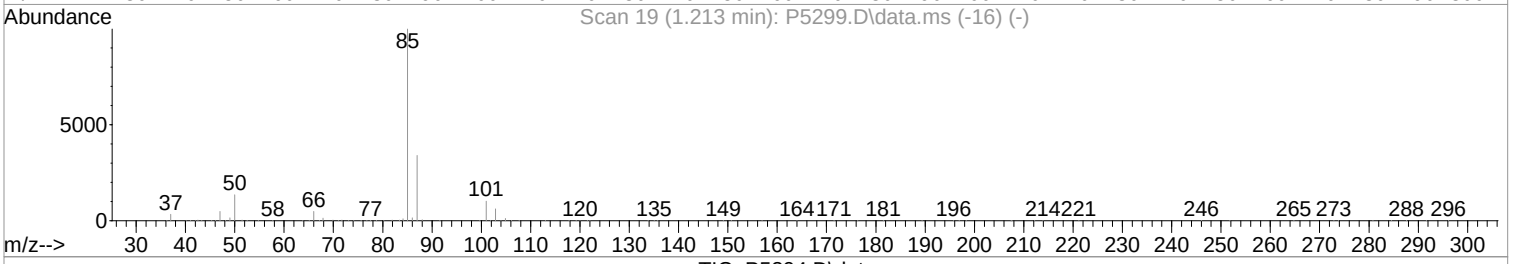
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 0.43 ppb

response 3492

Ion	Exp%	Act%
85.00	100	100
87.00	34.00	34.77
50.00	13.50	23.04
0.00	0.00	0.00

Manual Integration:

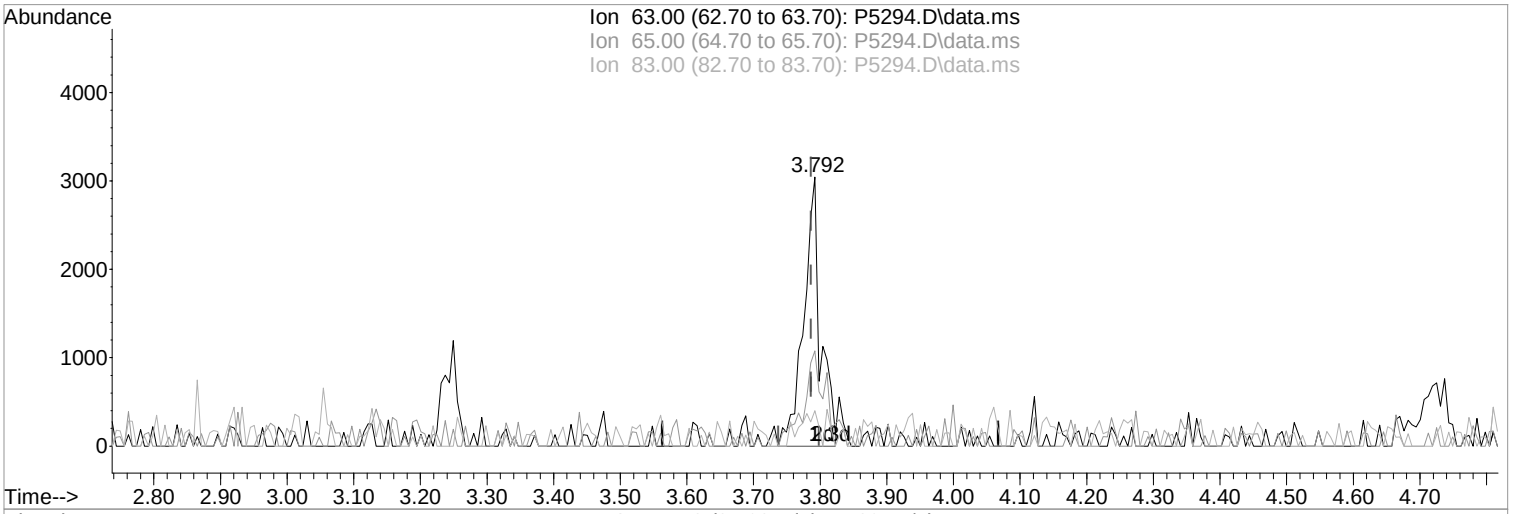
Before

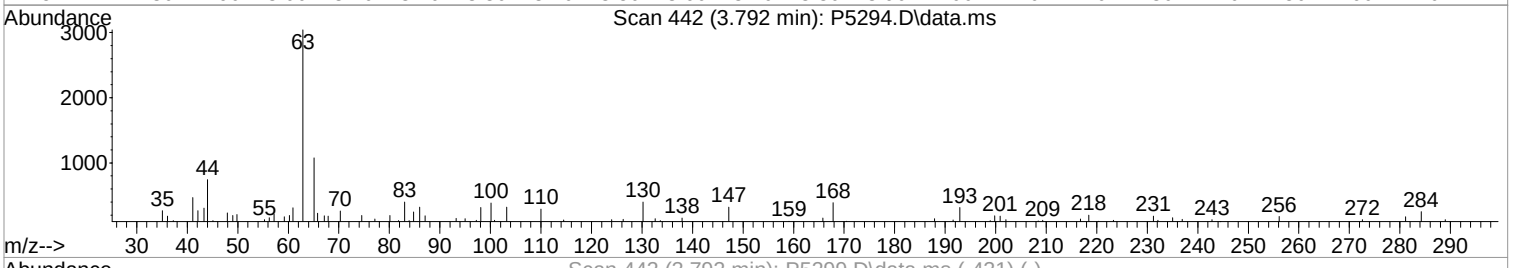
09/27/16

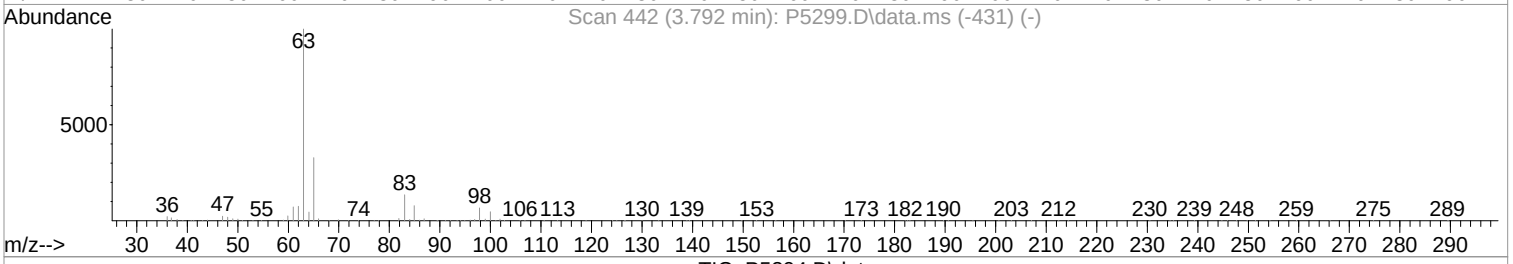
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(28) 1,1-Diclethane (P)

3.792min (+0.006) 0.55 ppb m

response 5283

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	35.35
83.00	13.50	13.17
0.00	0.00	0.00

Manual Integration:

After

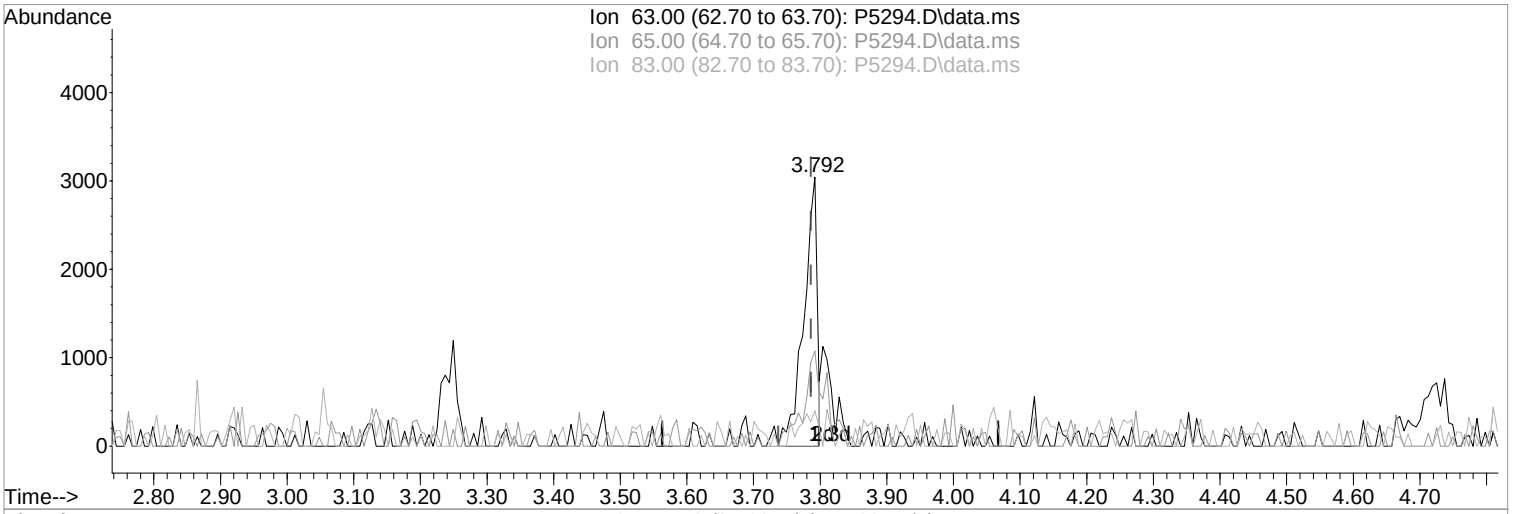
Split Peak

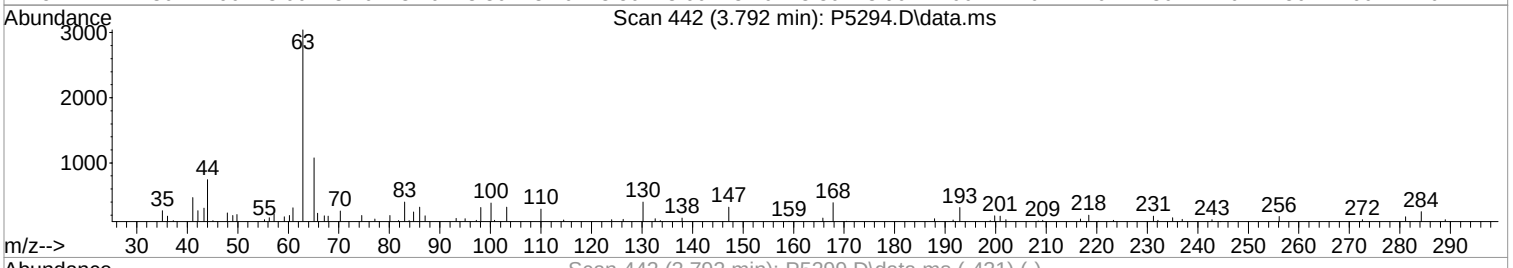
09/27/16

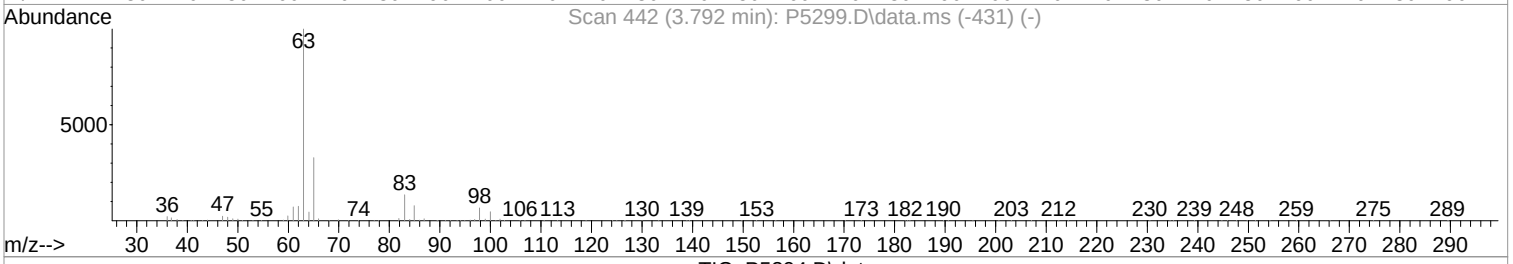
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(28) 1,1-Diclethane (P)

3.792min (+0.006) 0.44 ppb

response 4221

Ion	Exp%	Act%
63.00	100	100
65.00	32.90	35.35
83.00	13.50	13.17
0.00	0.00	0.00

Manual Integration:

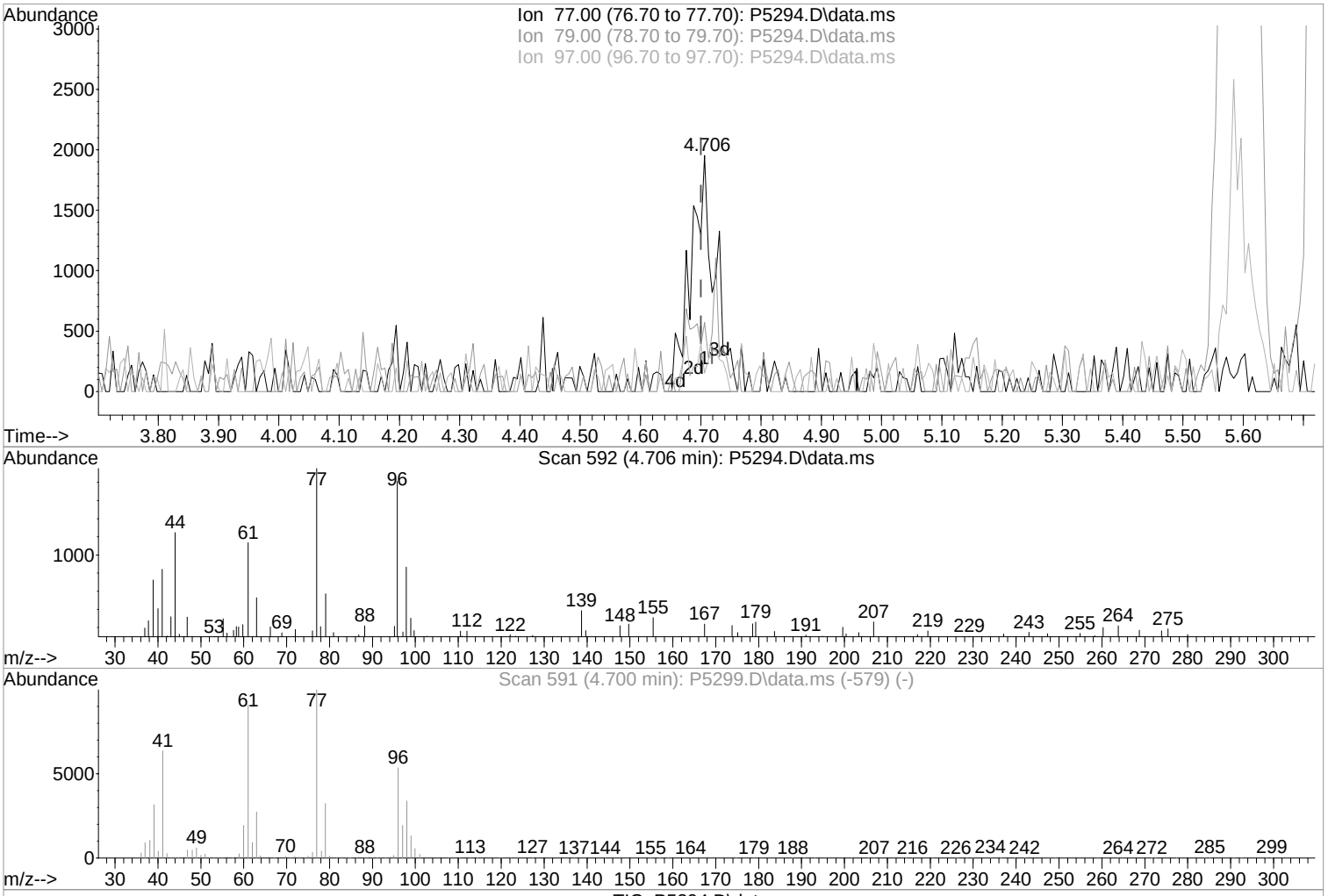
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5294.D\data.ms

(33) 2,2-Dichloropropane

4.706min (+0.006) 0.60 ppb m

response 5303

Ion	Exp%	Act%
77.00	100	100
79.00	32.40	29.27
97.00	19.30	7.78
0.00	0.00	0.00

Manual Integration:

After

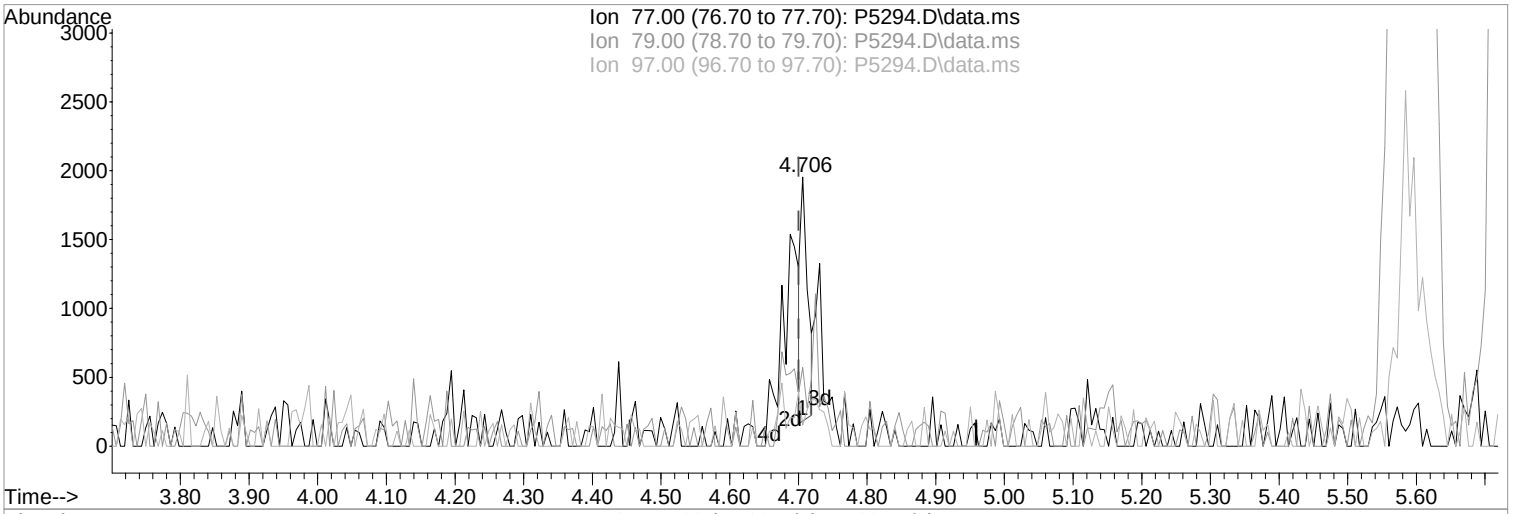
Split Peak

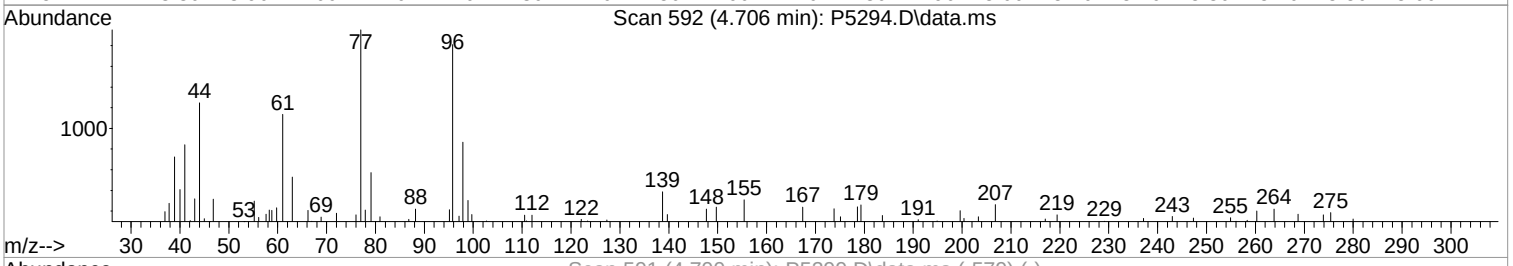
09/27/16

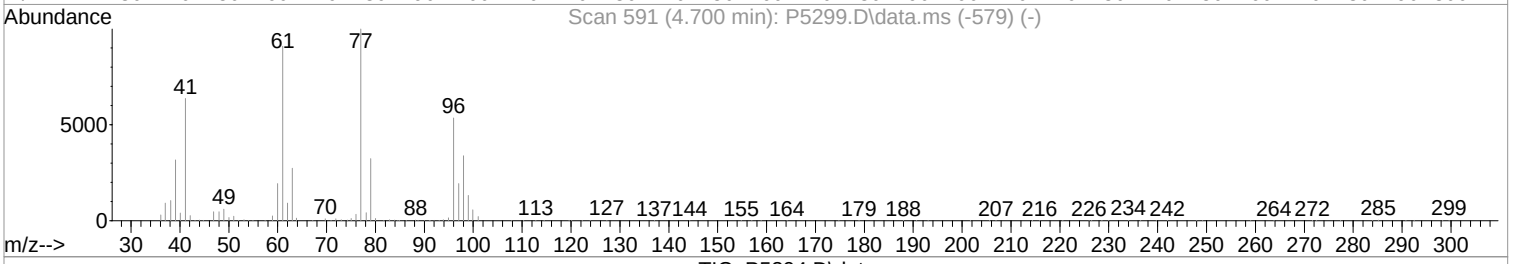
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(33) 2,2-Dichloropropane

4.706min (+0.006) 0.14 ppb

response 1218

Ion	Exp%	Act%
77.00	100	100
79.00	32.40	29.27
97.00	19.30	7.78
0.00	0.00	0.00

Manual Integration:

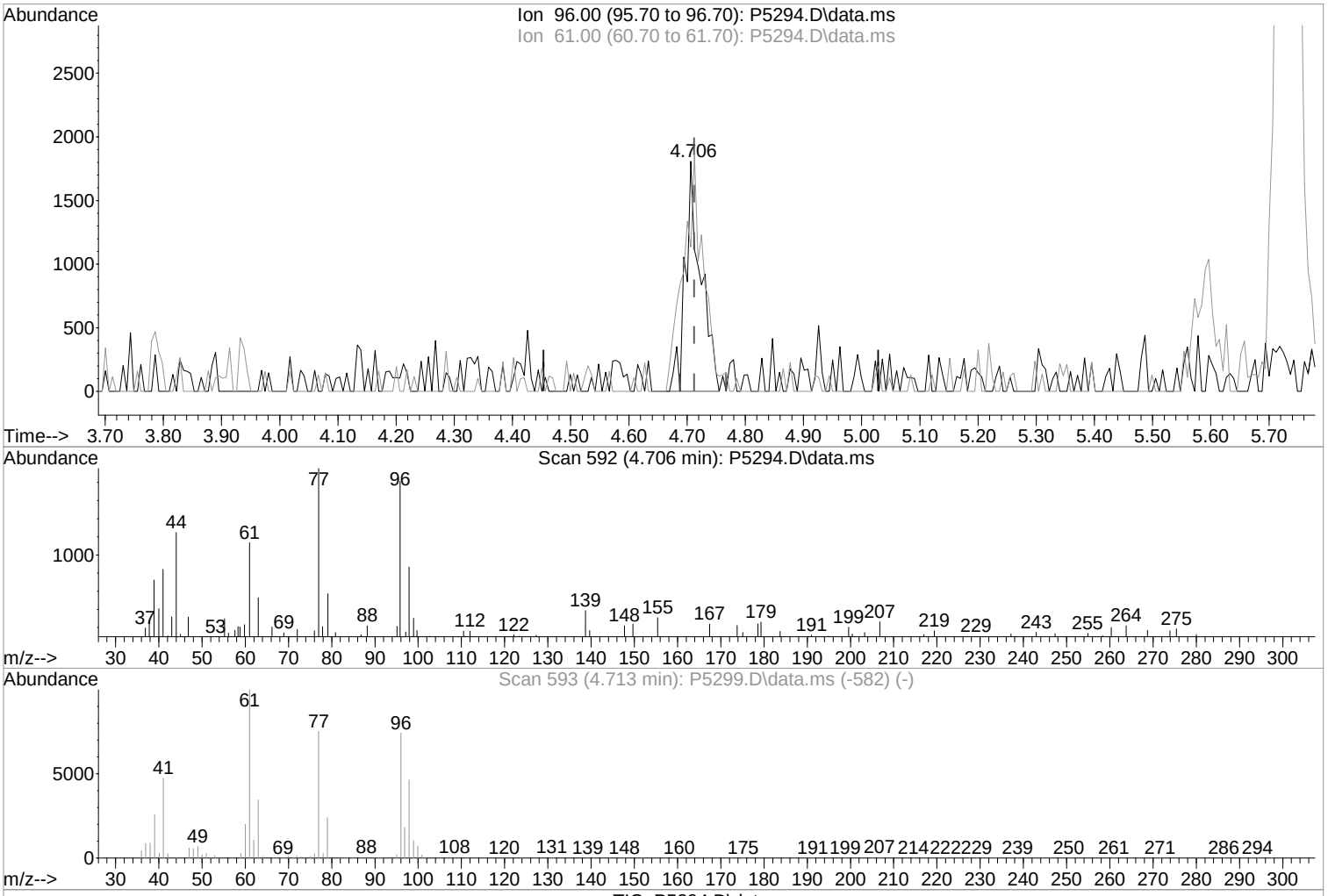
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5294.D\data.ms

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

4.706min (-0.006) 0.56 ppb m

response 3334

Ion	Exp%	Act%
96.00	100	100
61.00	134.60	62.74#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

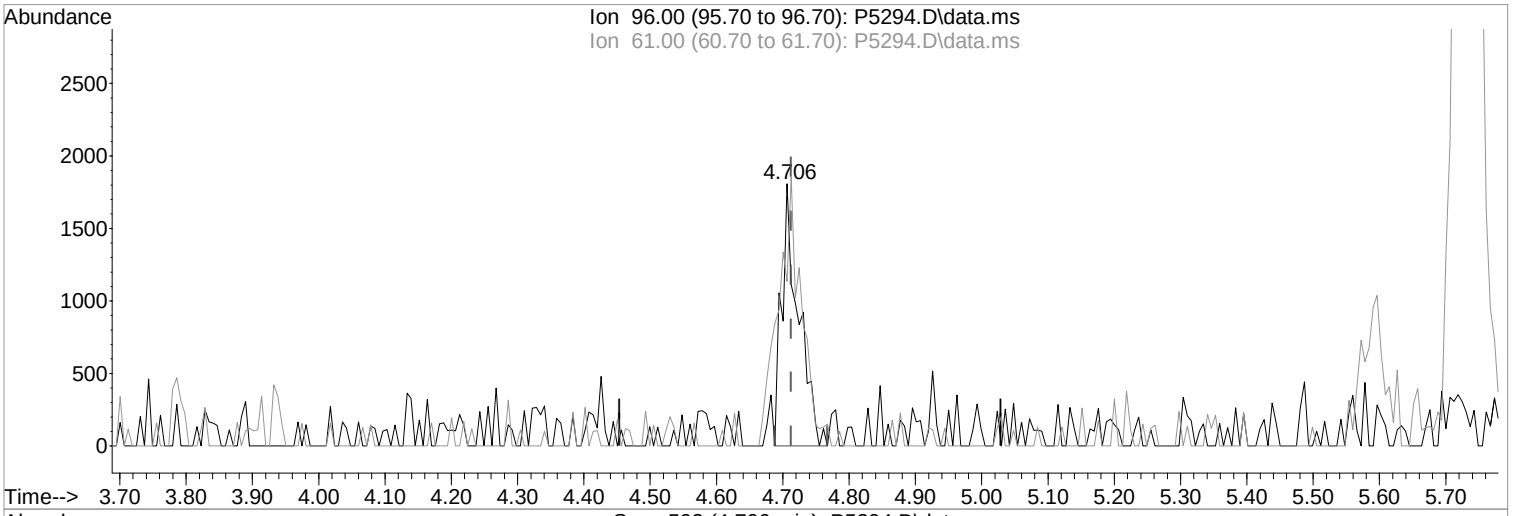
Split Peak

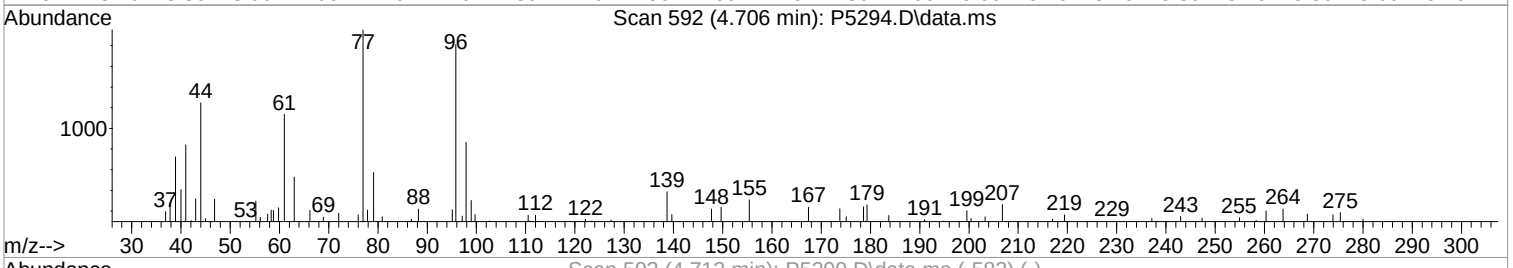
09/27/16

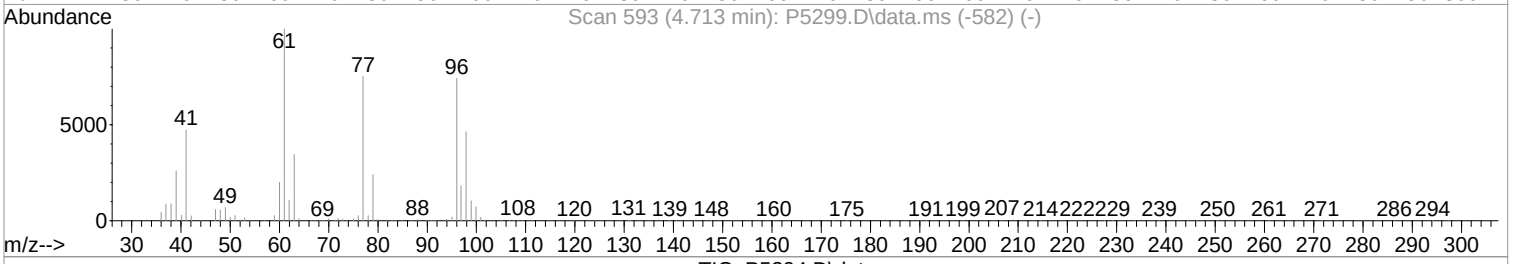
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

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

4.706min (-0.006) 0.54 ppb

response 3197

Ion	Exp%	Act%
96.00	100	100
61.00	134.60	62.74#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

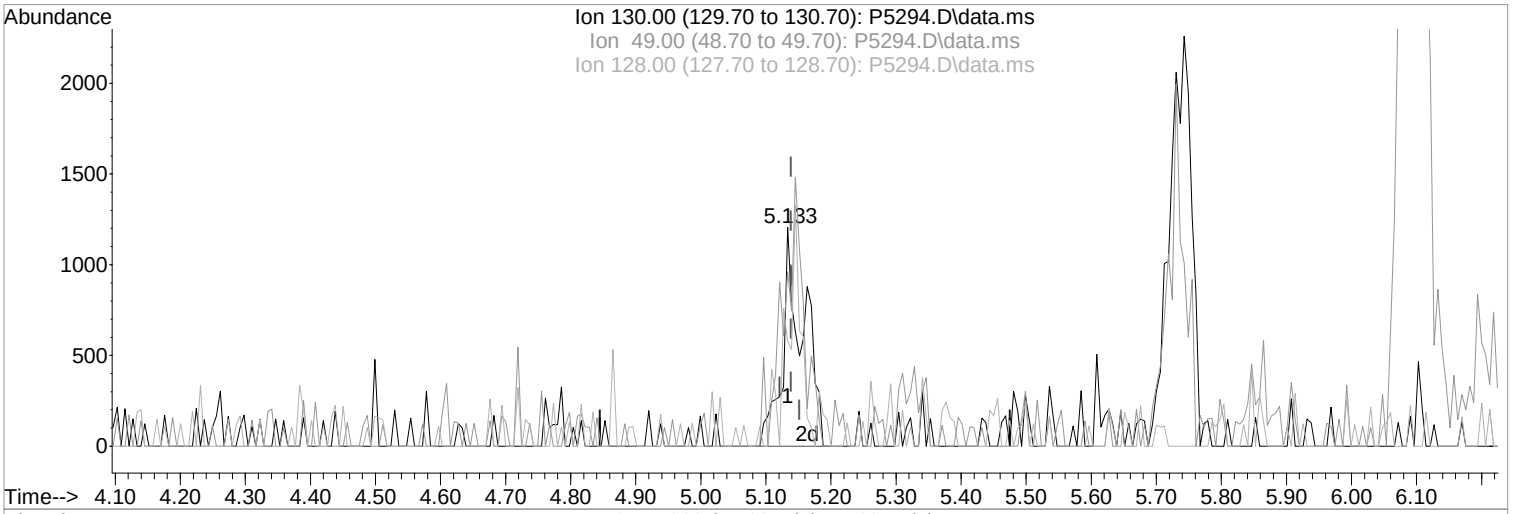
Before

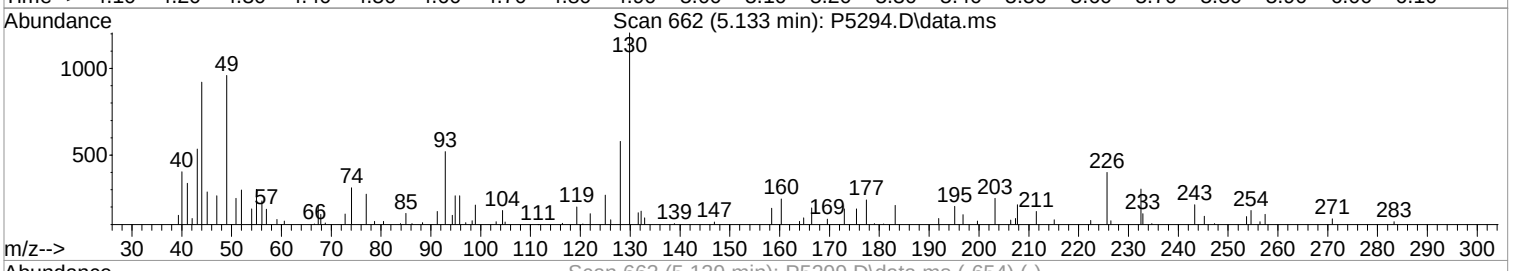
09/27/16

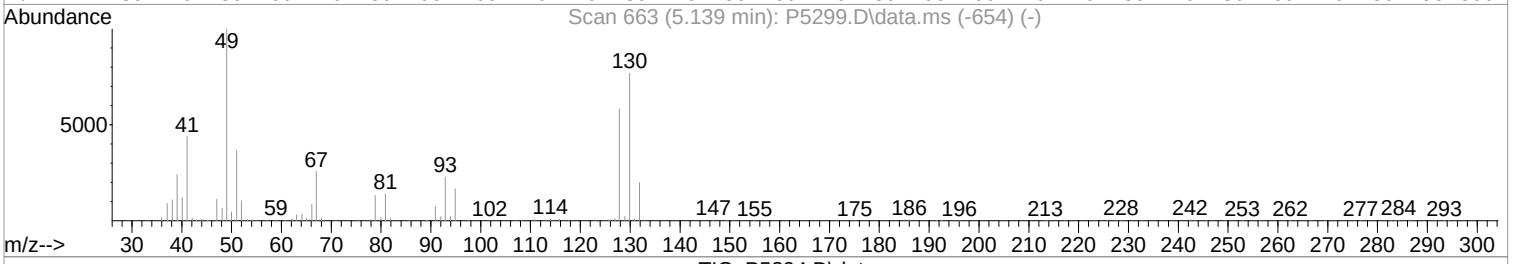
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(37) Bromochloromethane

5.133min (-0.006) 0.80 ppb m

response 2707

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	79.60#
128.00	75.90	48.09#
0.00	0.00	0.00

Manual Integration:

After

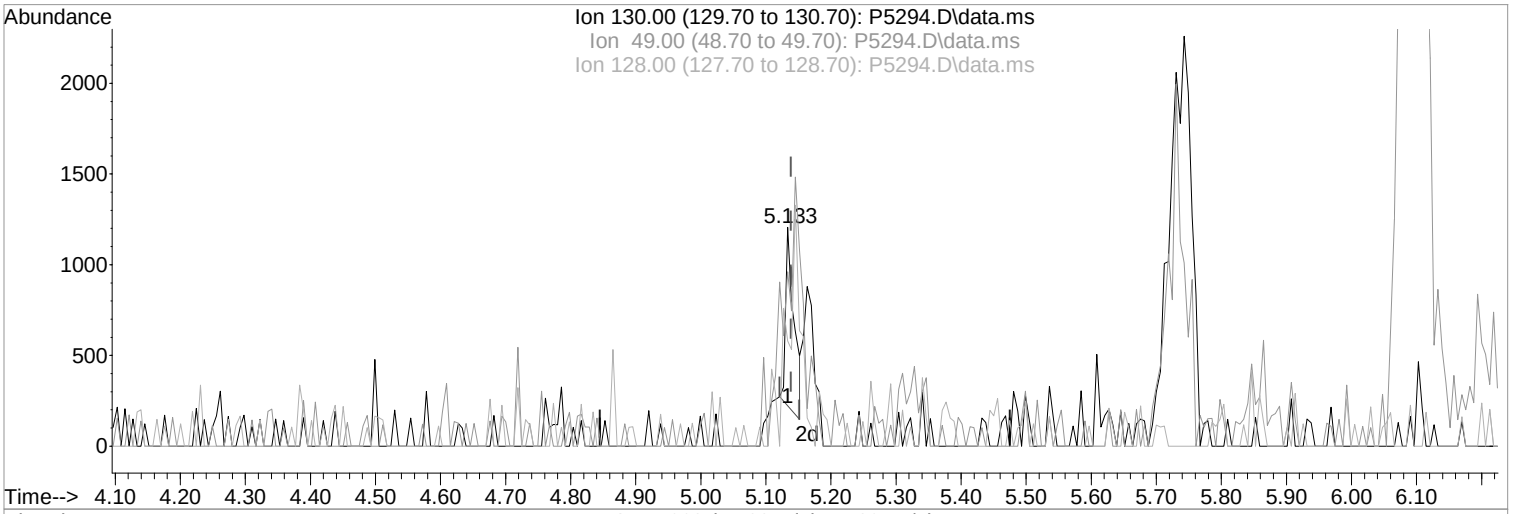
Split Peak

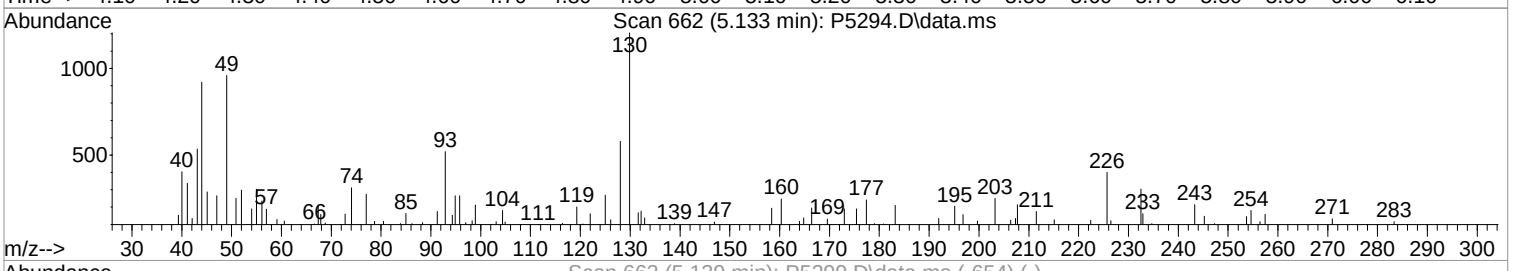
09/27/16

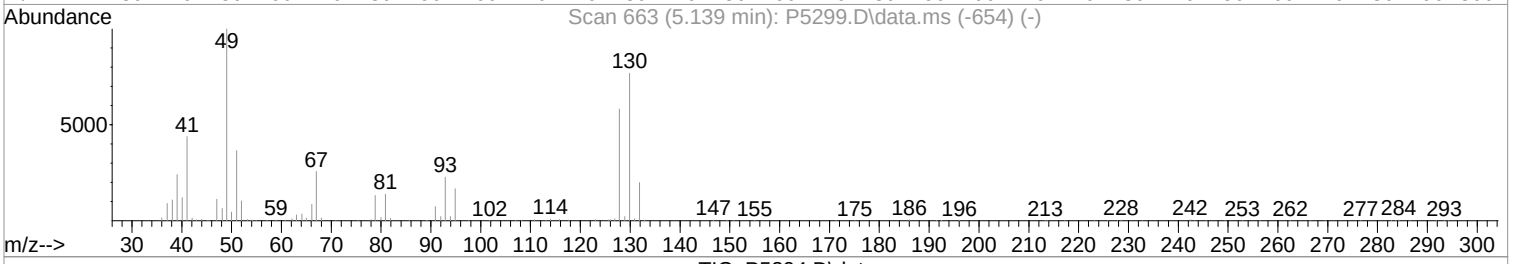
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(37) Bromochloromethane

5.133min (-0.006) 0.26 ppb

response 876

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	79.60#
128.00	75.90	48.09#
0.00	0.00	0.00

Manual Integration:

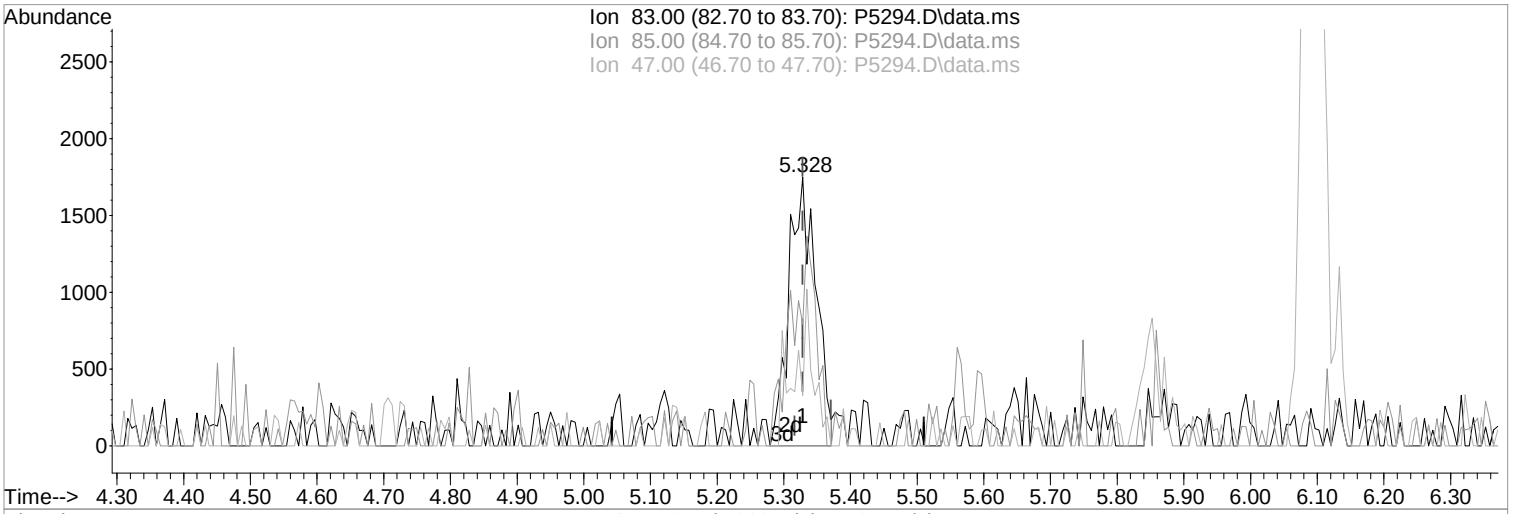
Before

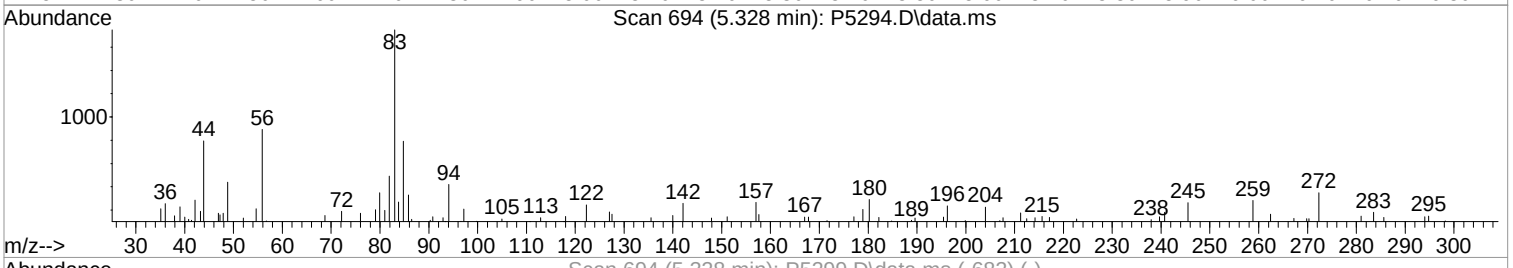
09/27/16

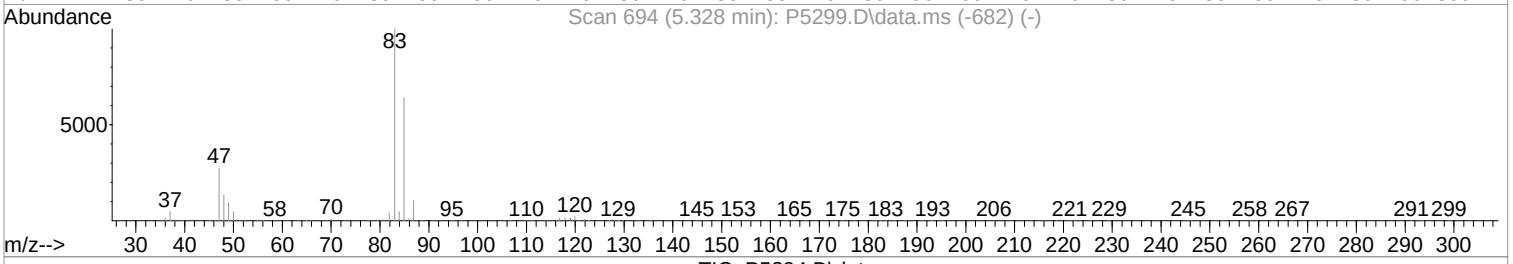
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.52 ppb m

response 4916

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	45.26
47.00	27.40	9.83
0.00	0.00	0.00

Manual Integration:

After

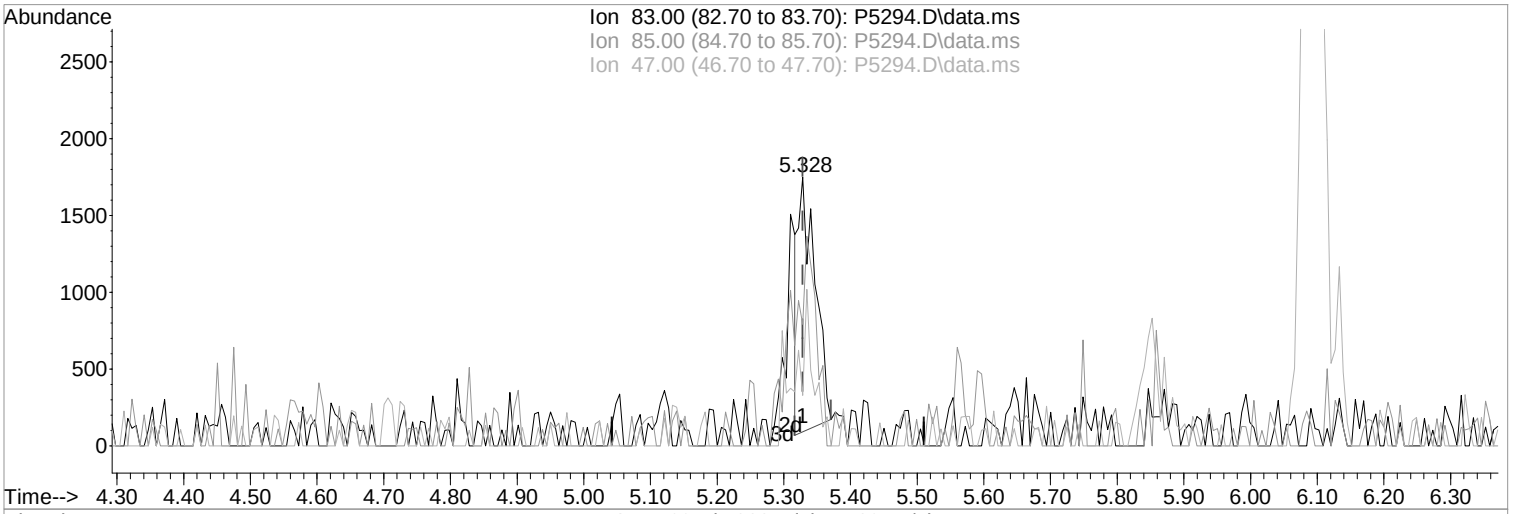
Split Peak

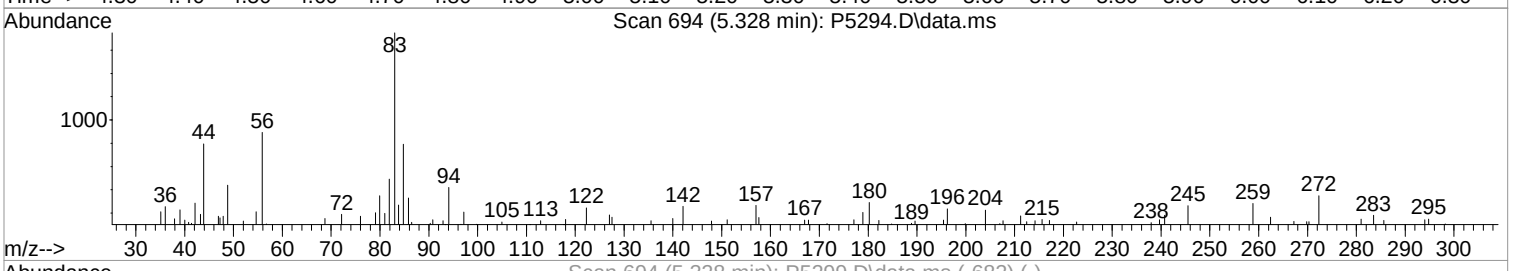
09/27/16

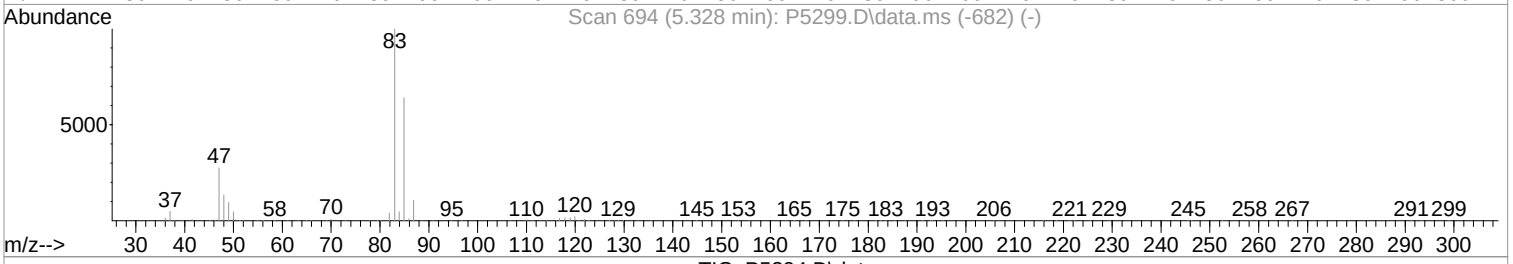
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.31 ppb

response 2924

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	45.26
47.00	27.40	18.91
0.00	0.00	0.00

Manual Integration:

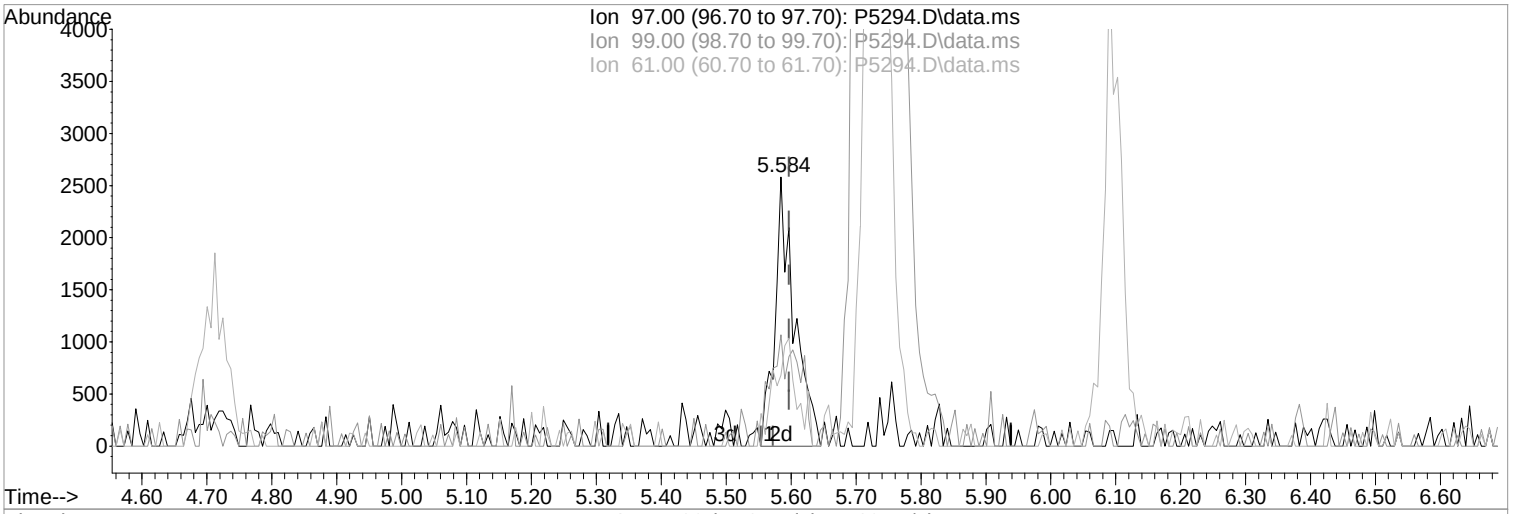
Before

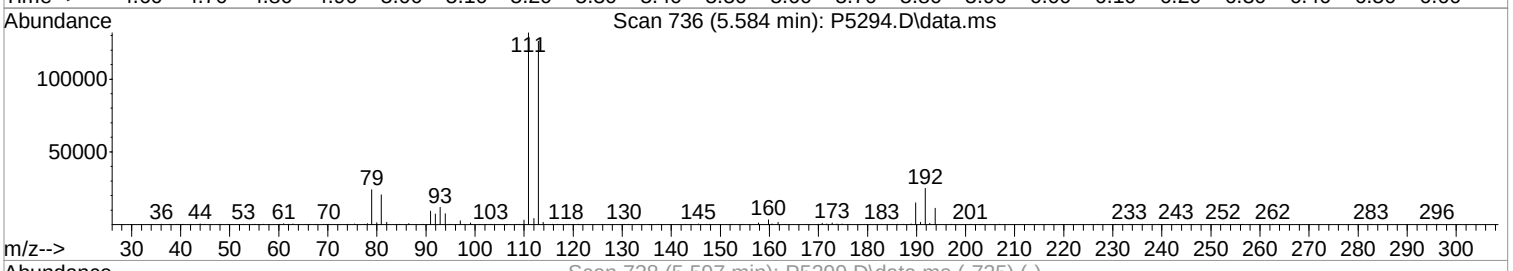
09/27/16

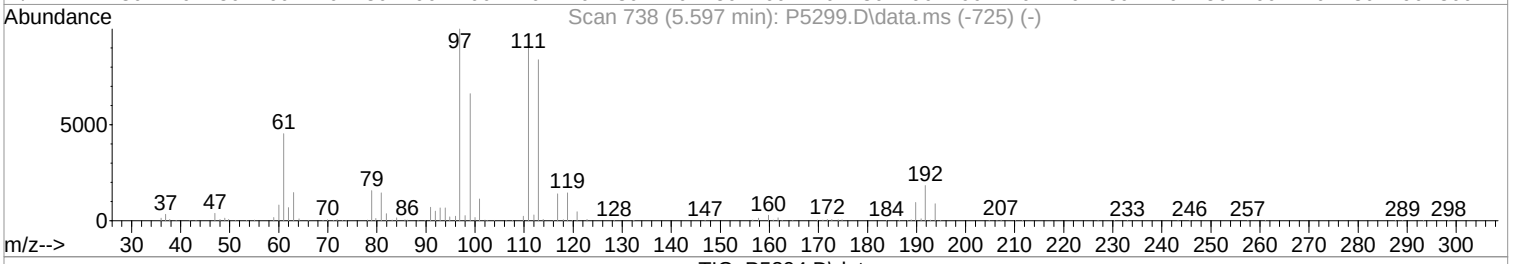
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

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

5.584min (-0.012) 0.62 ppb m

response 5374

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	41.32#
61.00	45.30	26.30
0.00	0.00	0.00

Manual Integration:

After

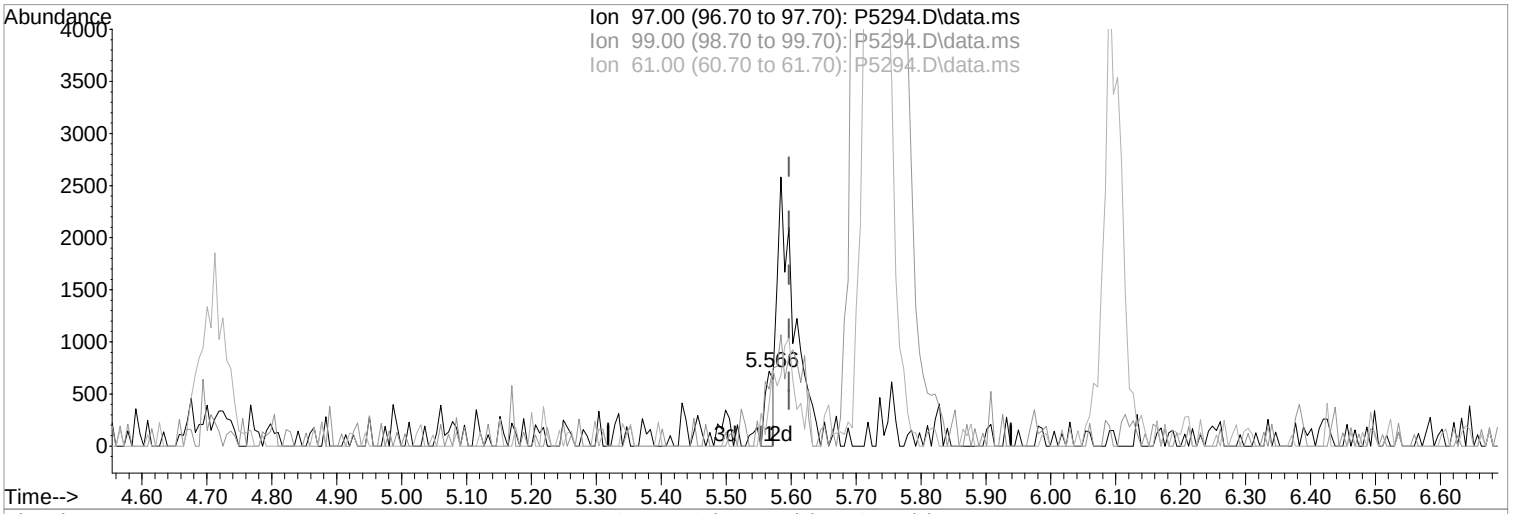
Split Peak

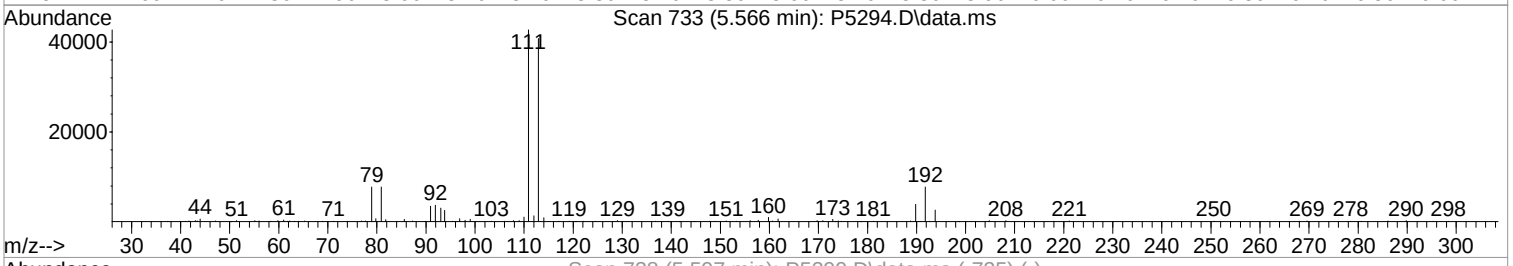
09/27/16

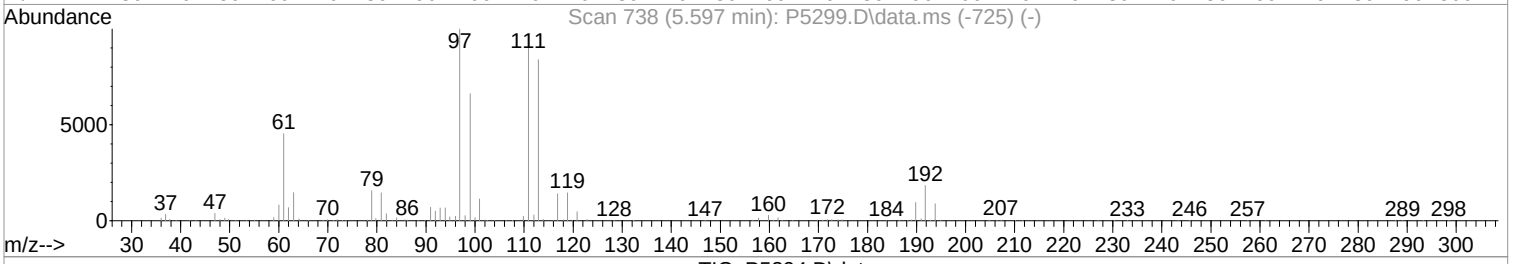
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

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

5.566min (-0.031) 0.08 ppb

response 678

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	76.40
61.00	45.30	57.12
0.00	0.00	0.00

Manual Integration:

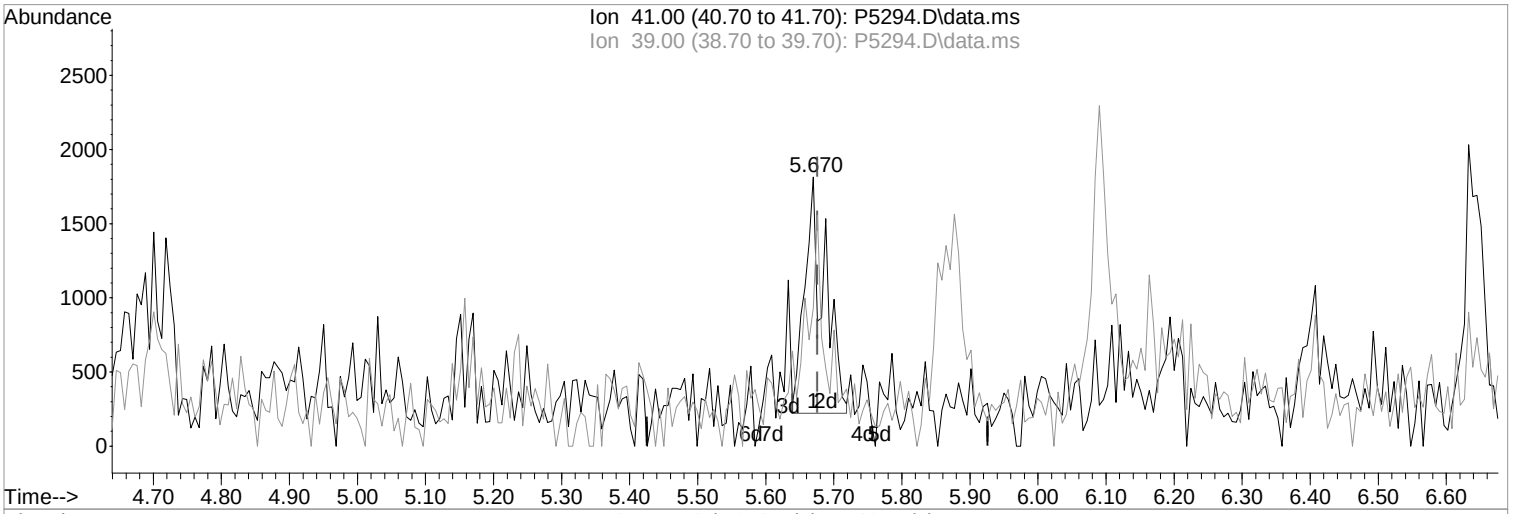
Before

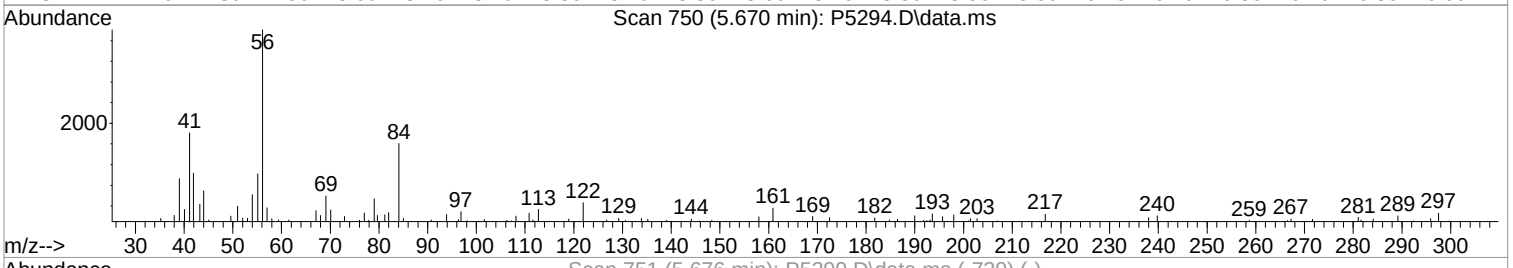
09/27/16

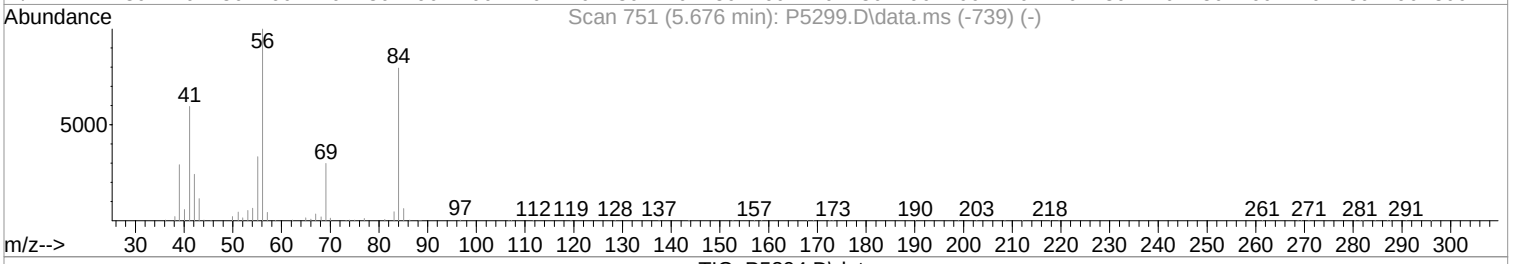
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(44) Cyclohexane (P)

5.670min (-0.006) 0.52 ppb m

response 3239

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	51.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

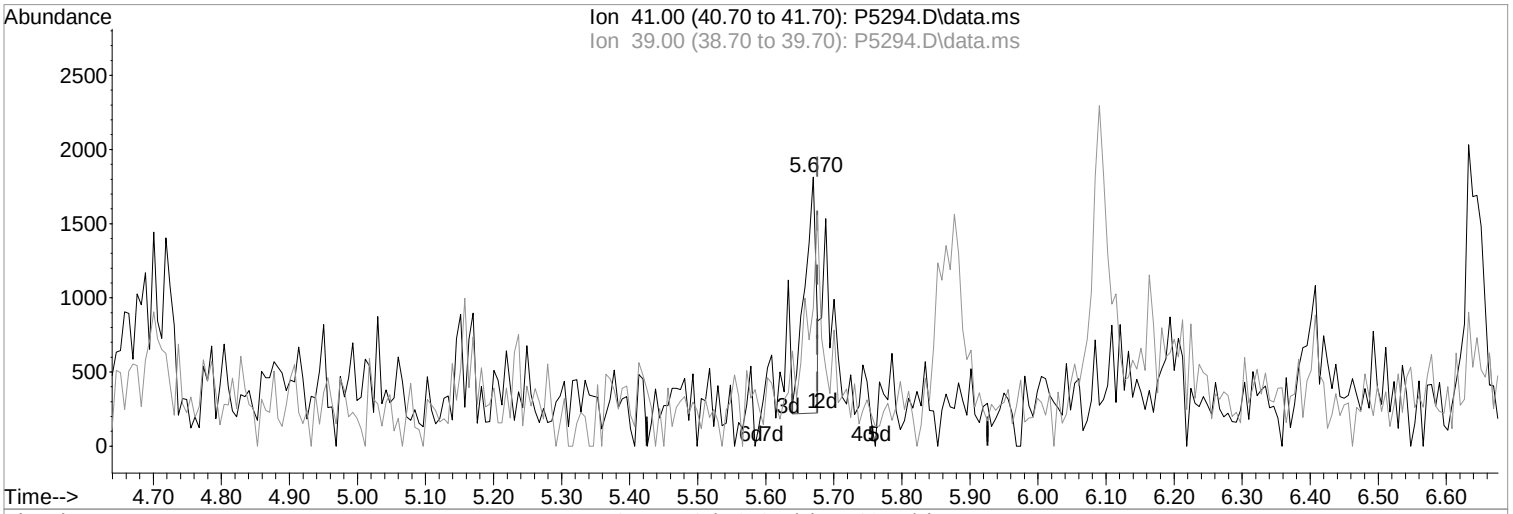
09/27/16

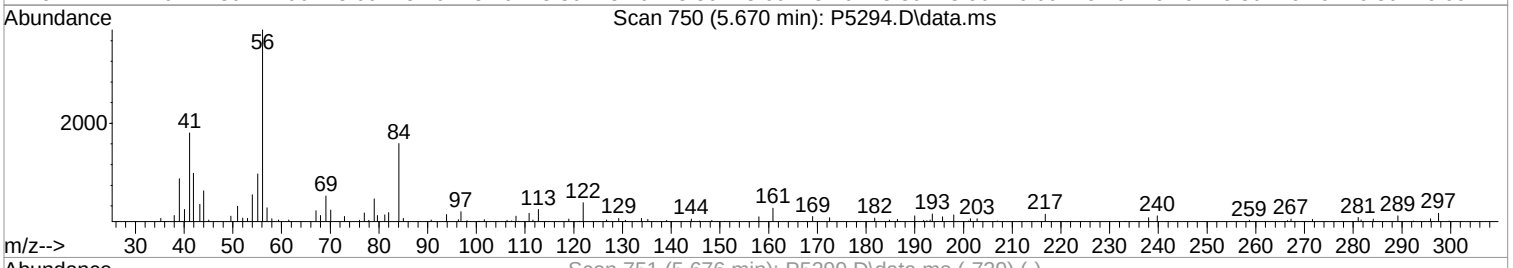
1st 09/27/16
2nd 09/27/16

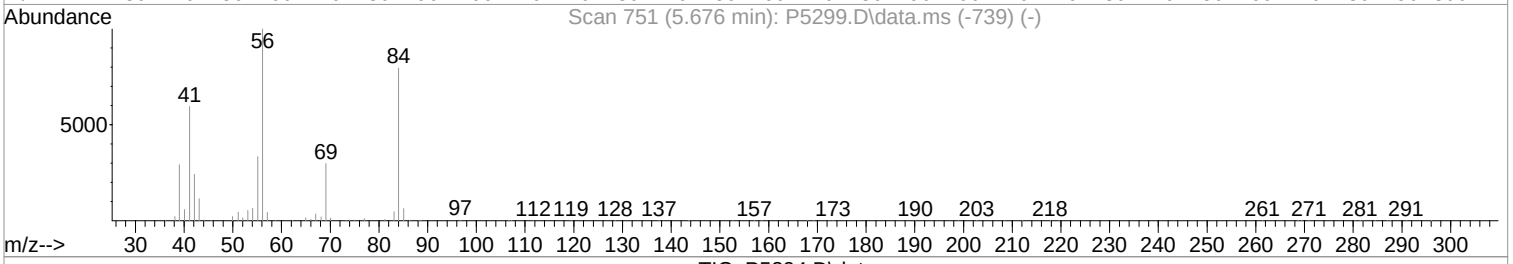
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(44) Cyclohexane (P)

5.670min (-0.006) 0.30 ppb

response 1880

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	51.27
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

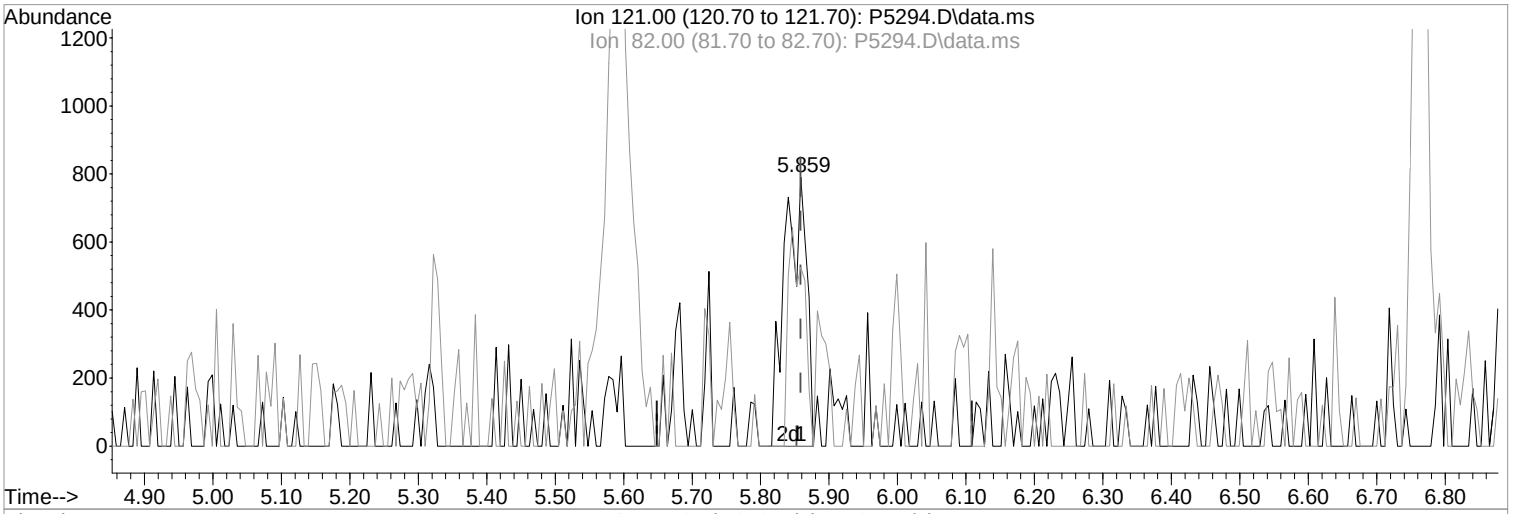
Before

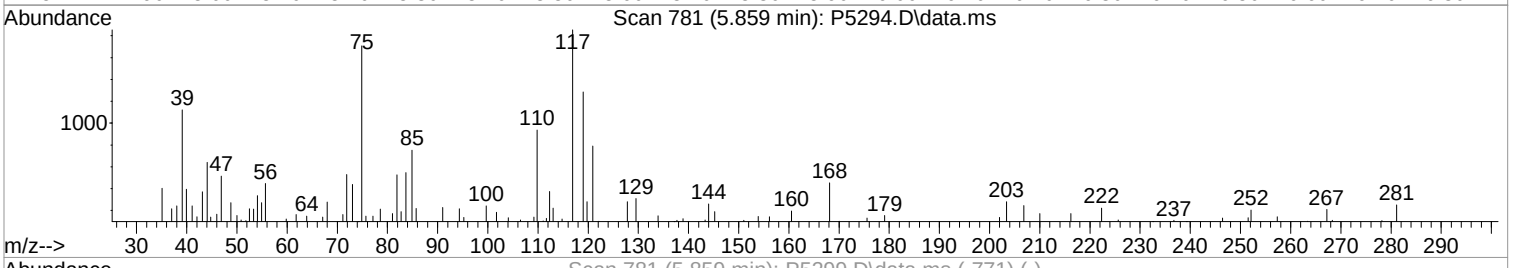
09/27/16

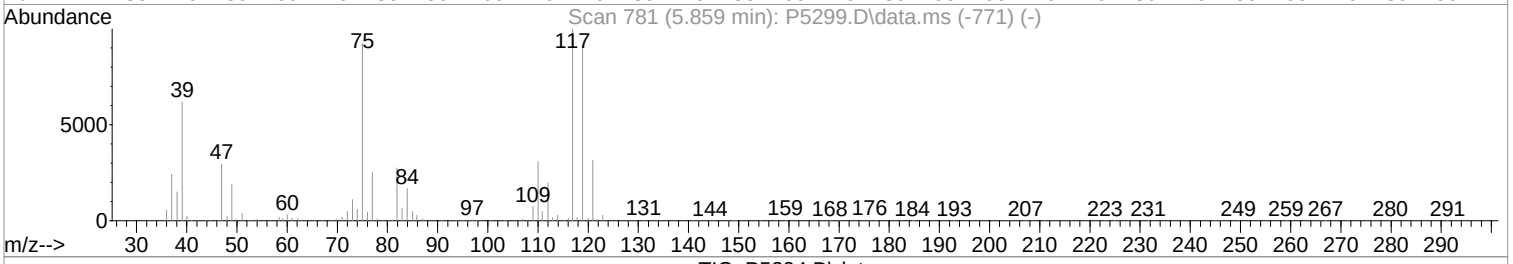
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(46) Carbontetrachloride (P)

5.859min (-0.000) 0.72 ppb m

response 1765

Ion	Exp%	Act%
121.00	100	100
82.00	87.90	66.50#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

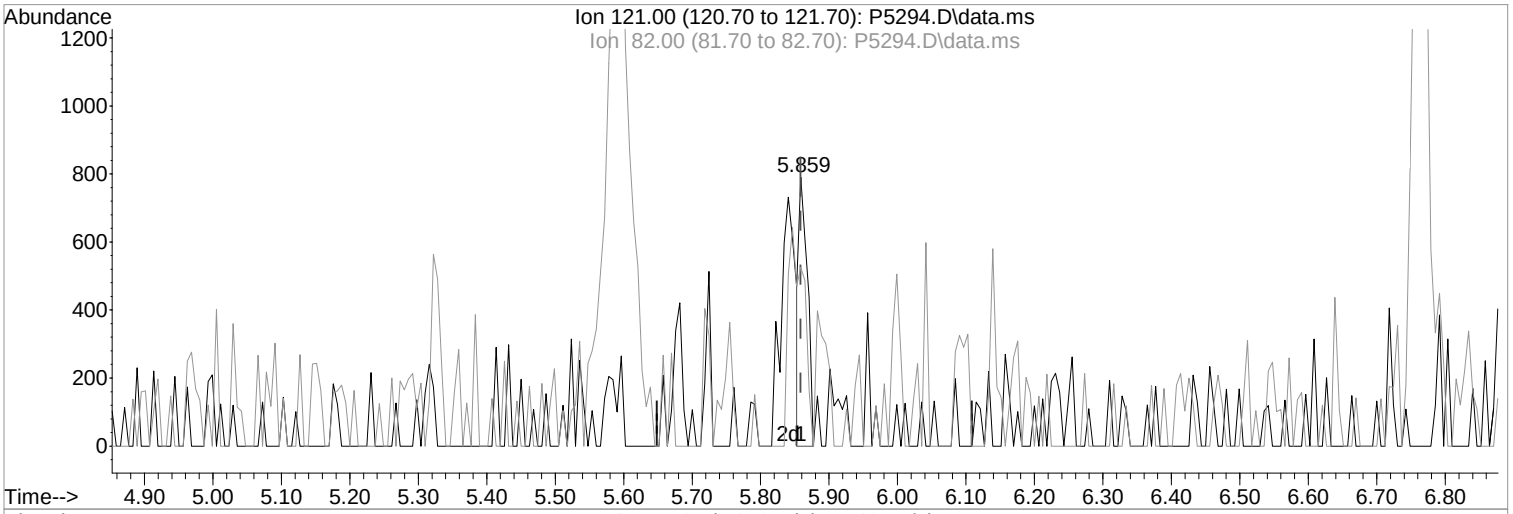
Split Peak

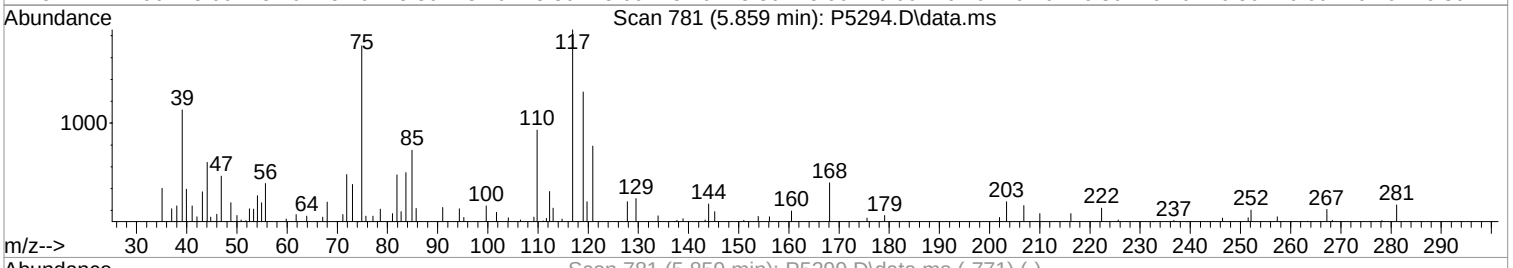
09/27/16

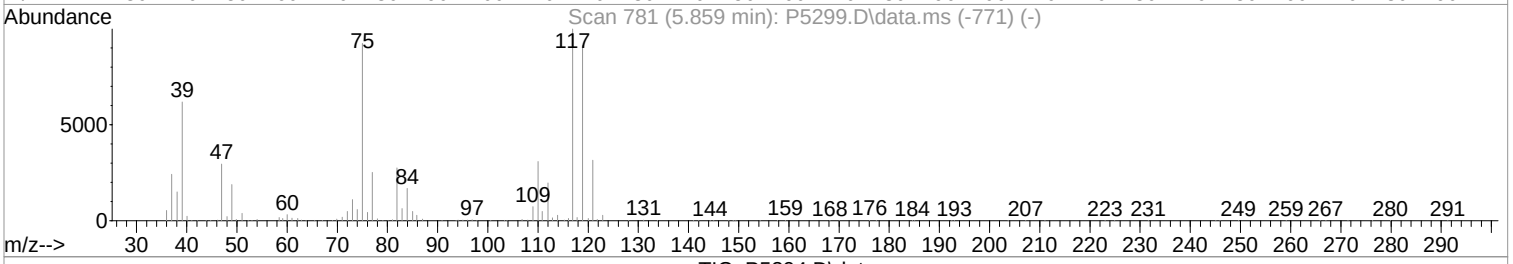
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(46) Carbontetrachloride (P)

5.859min (-0.000) 0.27 ppb

response 671

Ion	Exp%	Act%
121.00	100	100
82.00	87.90	90.52
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

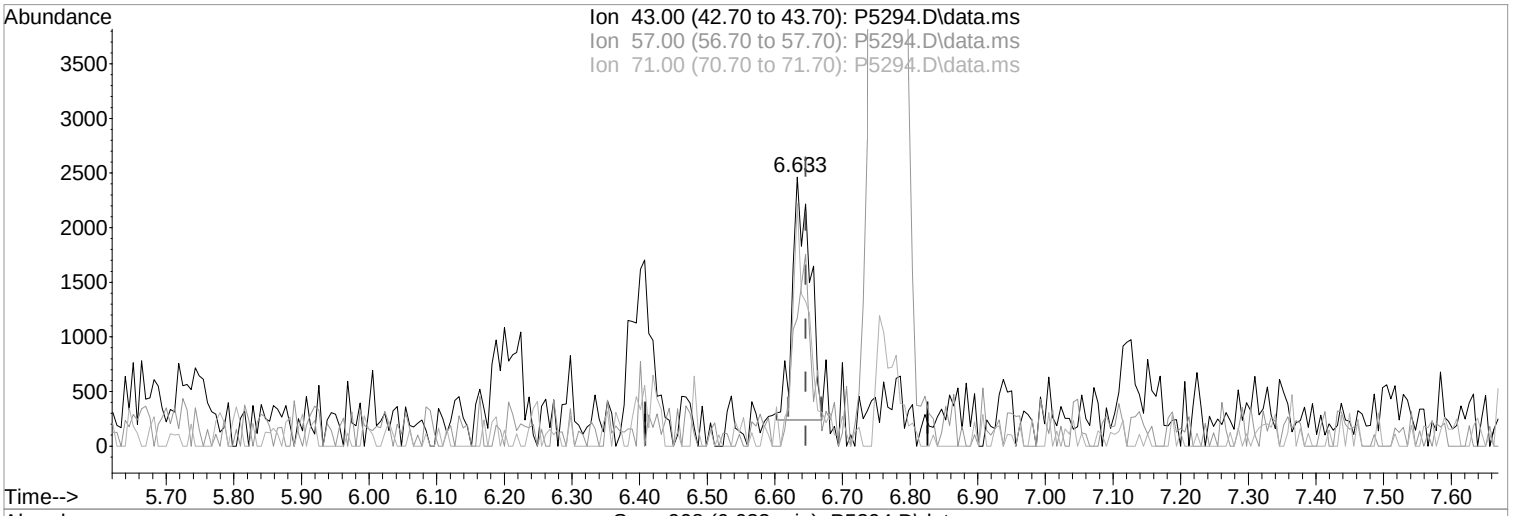
Before

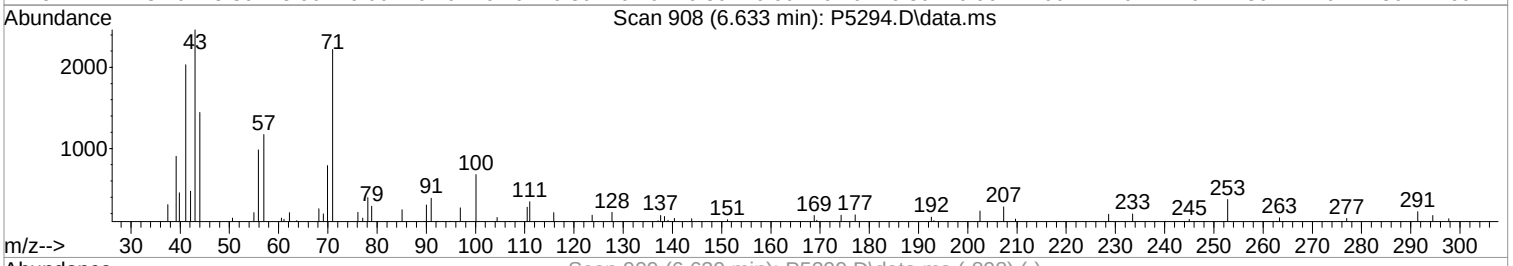
09/27/16

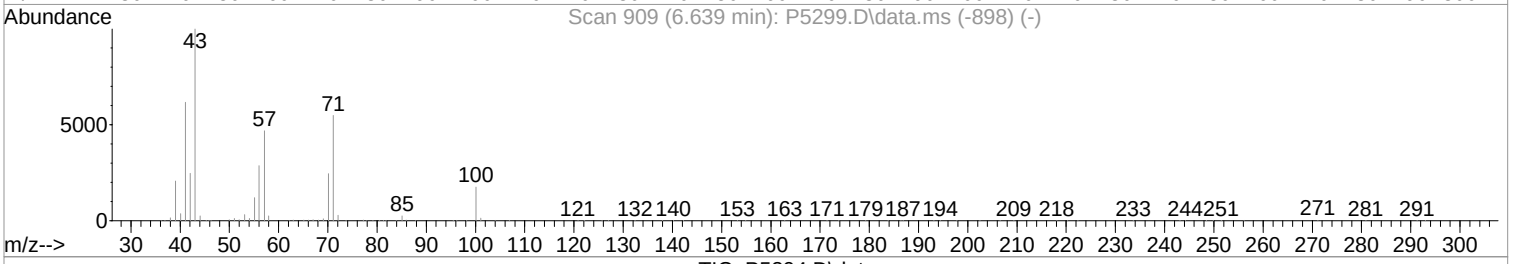
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(52) n-Heptane

6.633min (-0.012) 0.52 ppb m

response 4064

Ion	Exp%	Act%
43.00	100	100
57.00	46.80	47.54
71.00	54.80	90.13#
0.00	0.00	0.00

Manual Integration:

After

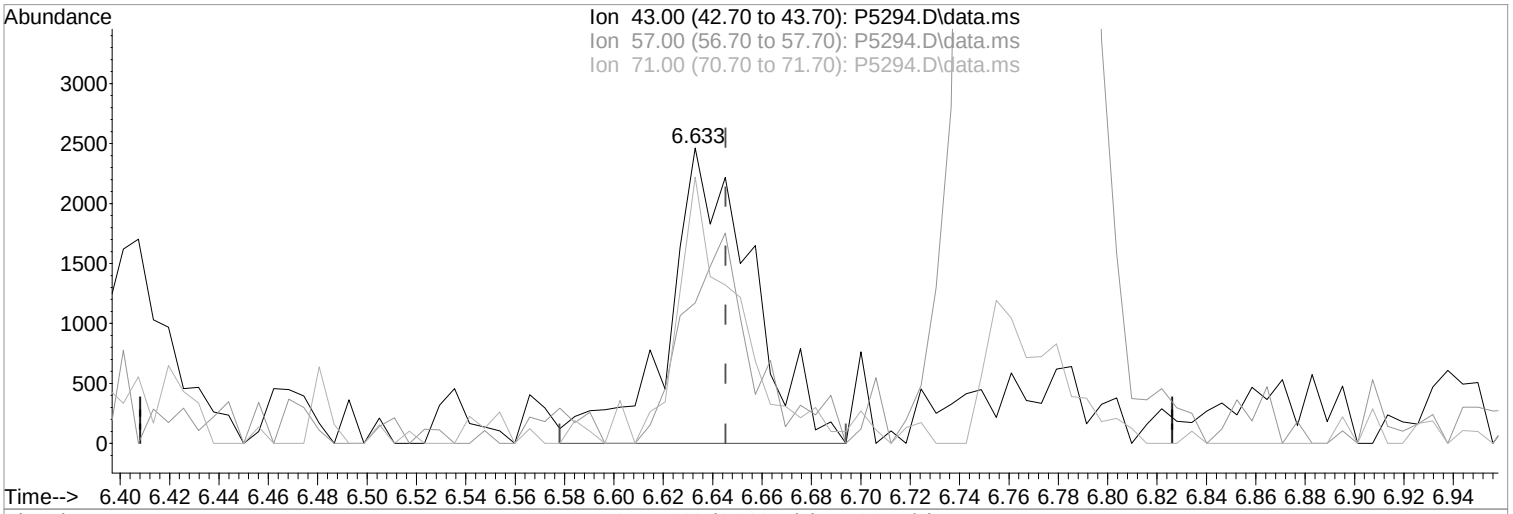
Poor integration.

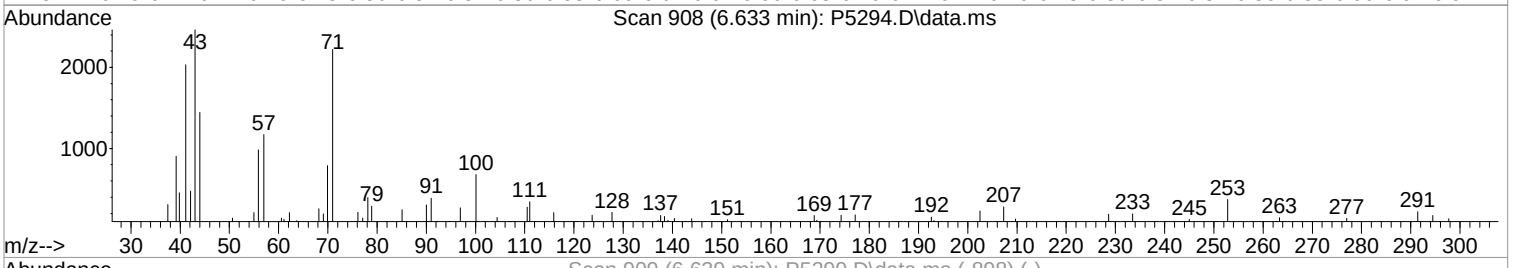
09/27/16

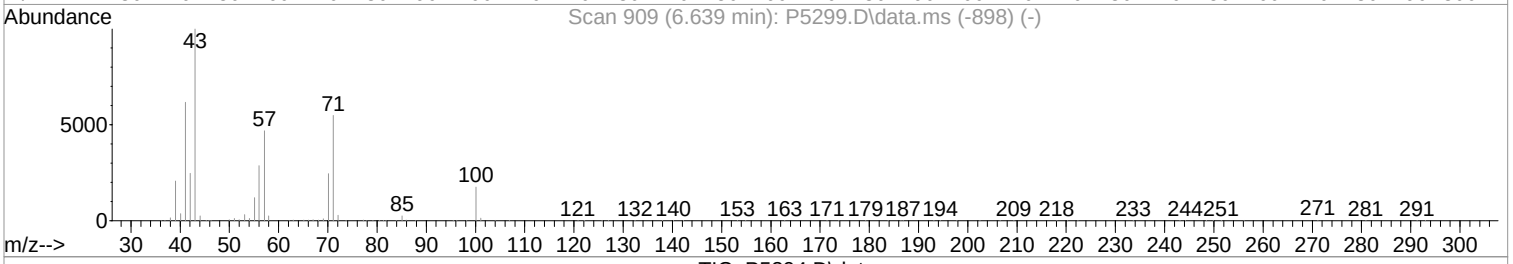
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(52) n-Heptane

6.633min (-0.012) 0.75 ppb

response 5816

Ion	Exp%	Act%
43.00	100	100
57.00	46.80	47.54
71.00	54.80	90.13#
0.00	0.00	0.00

Manual Integration:

Before

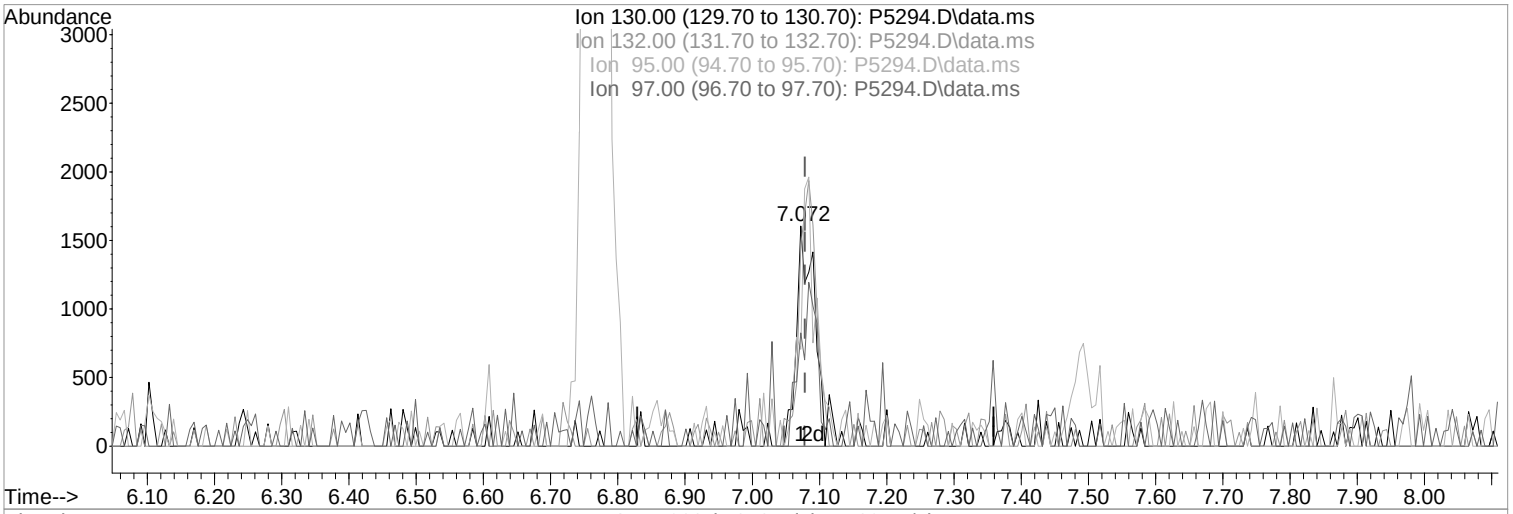
09/27/16

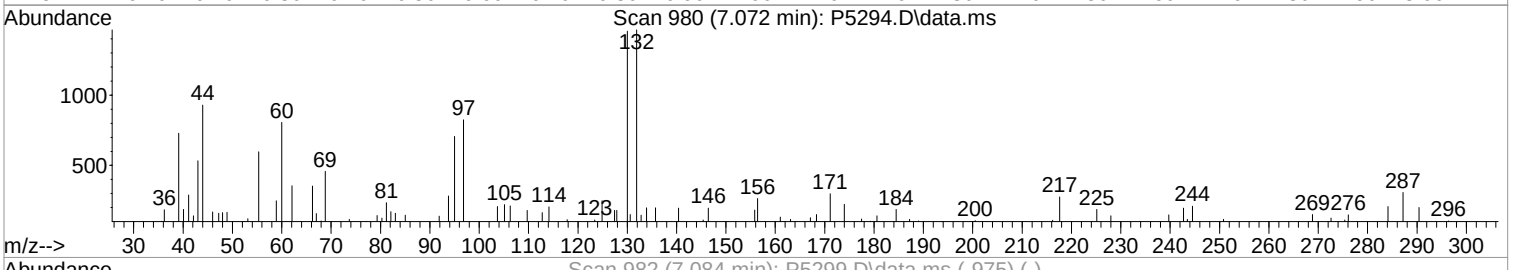
1st 09/27/16
2nd 09/27/16

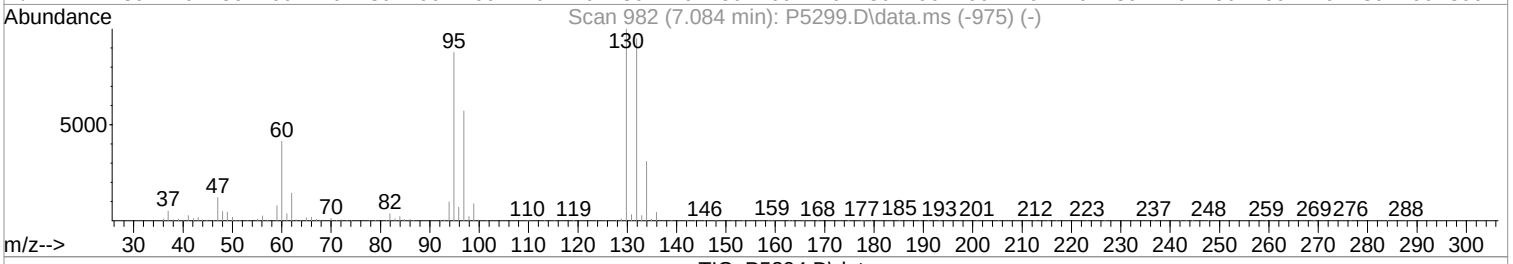
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(54) Trichloroethene (P)

7.072min (-0.006) 0.51 ppb m

response 3133

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	100.76
95.00	88.10	48.59#
97.00	57.40	56.70

Manual Integration:

After

Split Peak

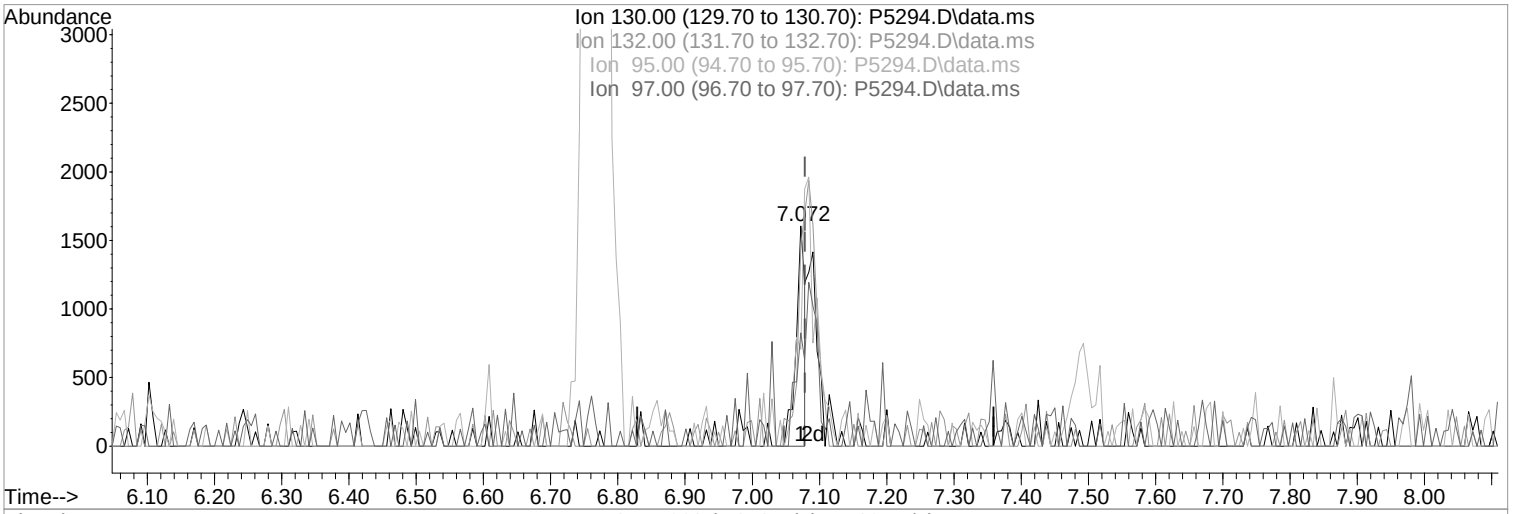
09/27/16

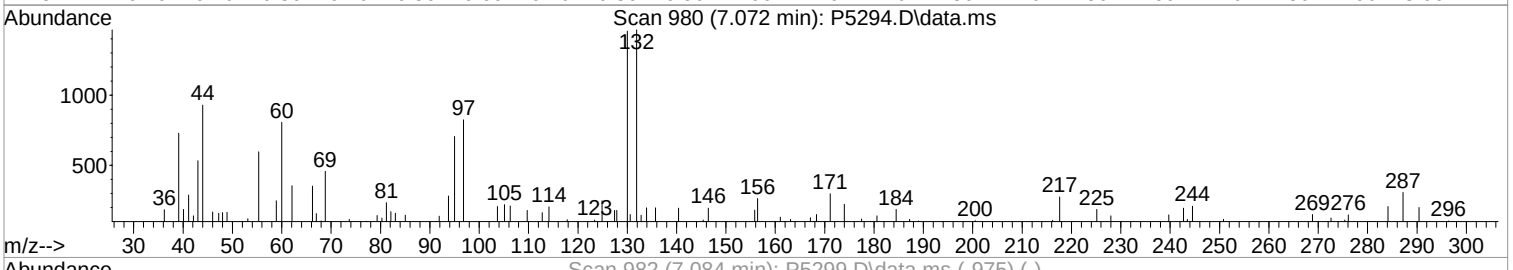
1st 09/27/16
2nd 09/27/16

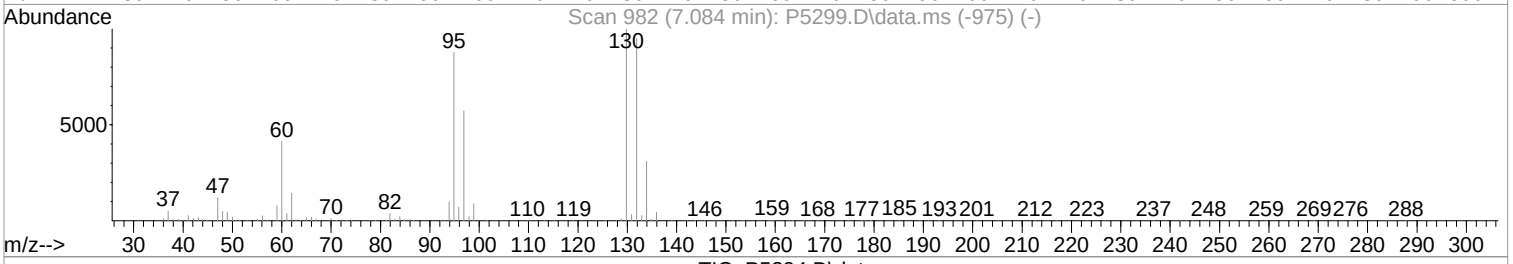
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(54) Trichloroethene (P)

7.072min (-0.006) 0.25 ppb

response 1509

Ion	Exp%	Act%
130.00	100	100
132.00	95.20	91.40
95.00	88.10	44.08#
97.00	57.40	51.43

Manual Integration:

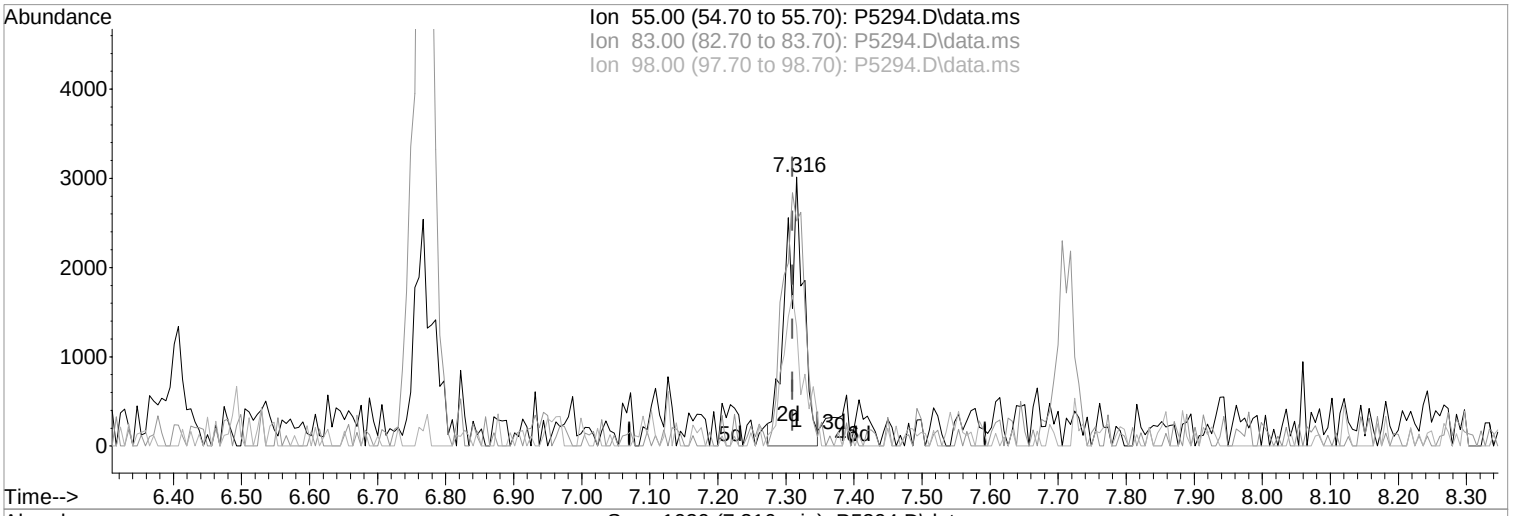
Before

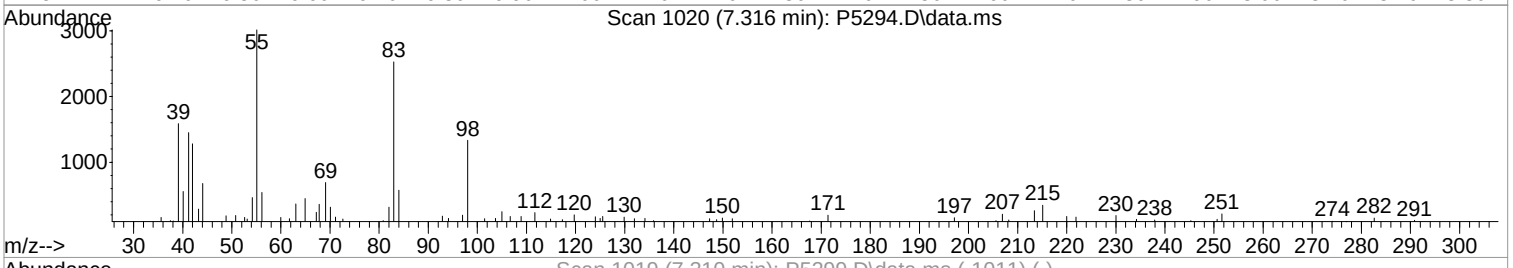
09/27/16

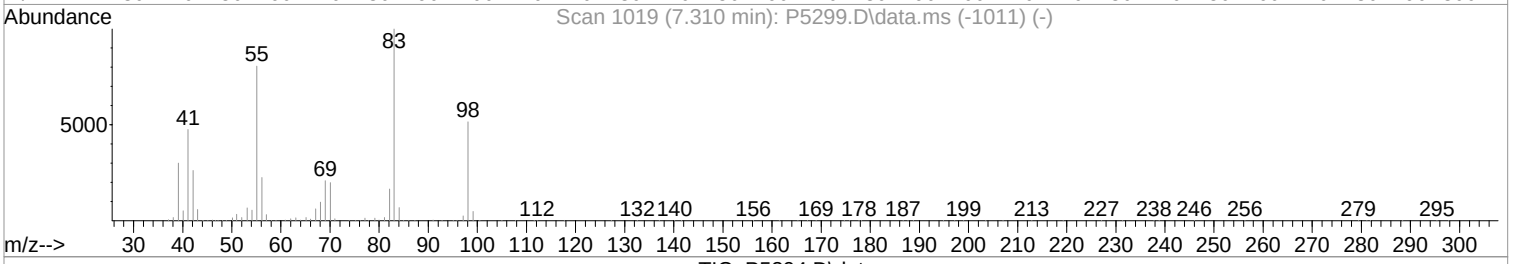
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(55) Methylcyclohexane (P)

7.316min (+0.006) 0.72 ppb m

response 5536

Ion	Exp%	Act%
55.00	100	100
83.00	124.10	83.71#
98.00	63.90	44.25
0.00	0.00	0.00

Manual Integration:

After

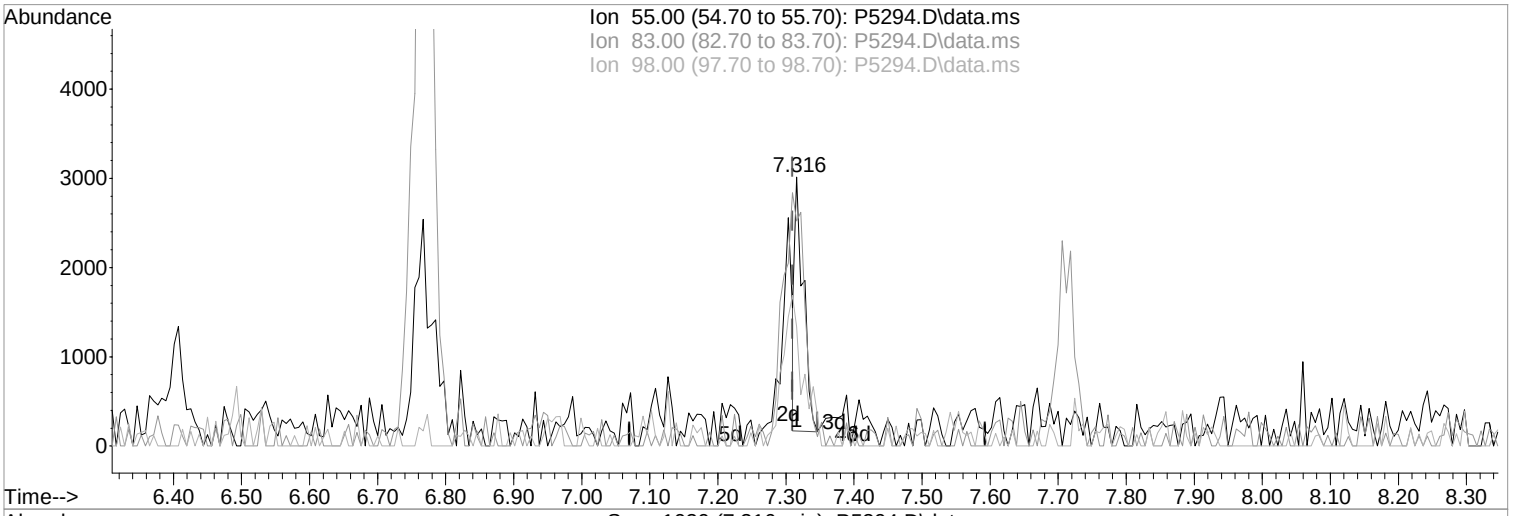
Split Peak

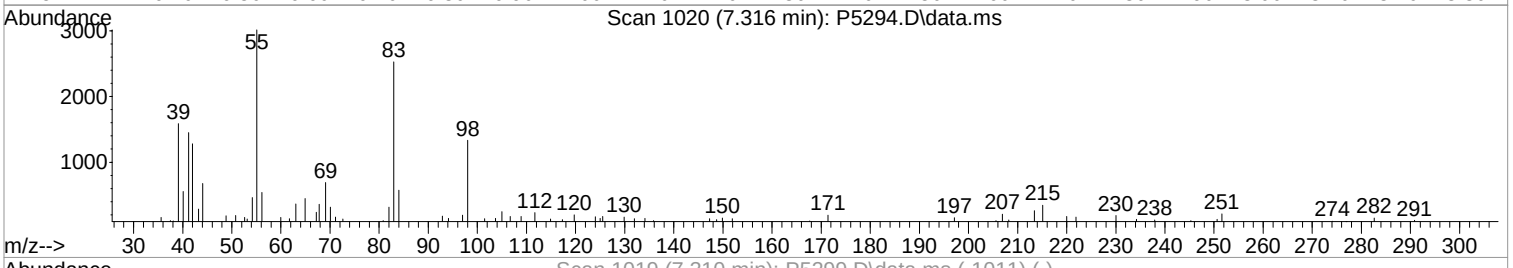
09/27/16

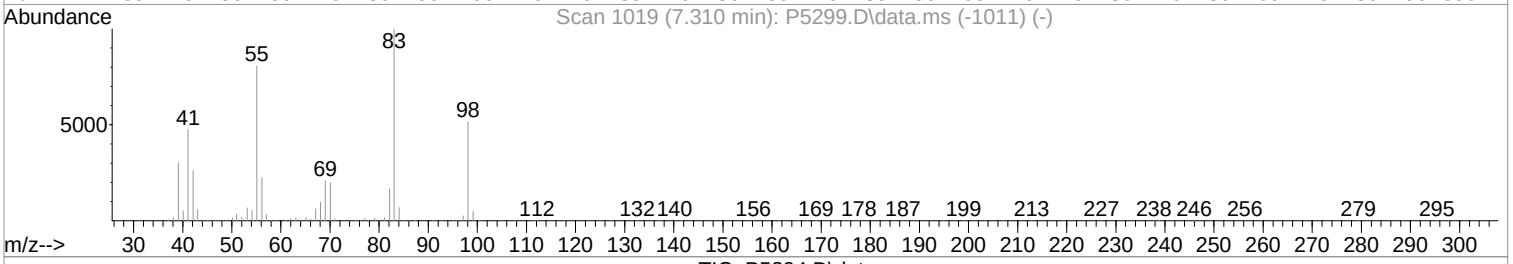
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(55) Methylcyclohexane (P)

7.316min (+0.006) 0.32 ppb

response 2472

Ion	Exp%	Act%
55.00	100	100
83.00	124.10	83.71#
98.00	63.90	44.25
0.00	0.00	0.00

Manual Integration:

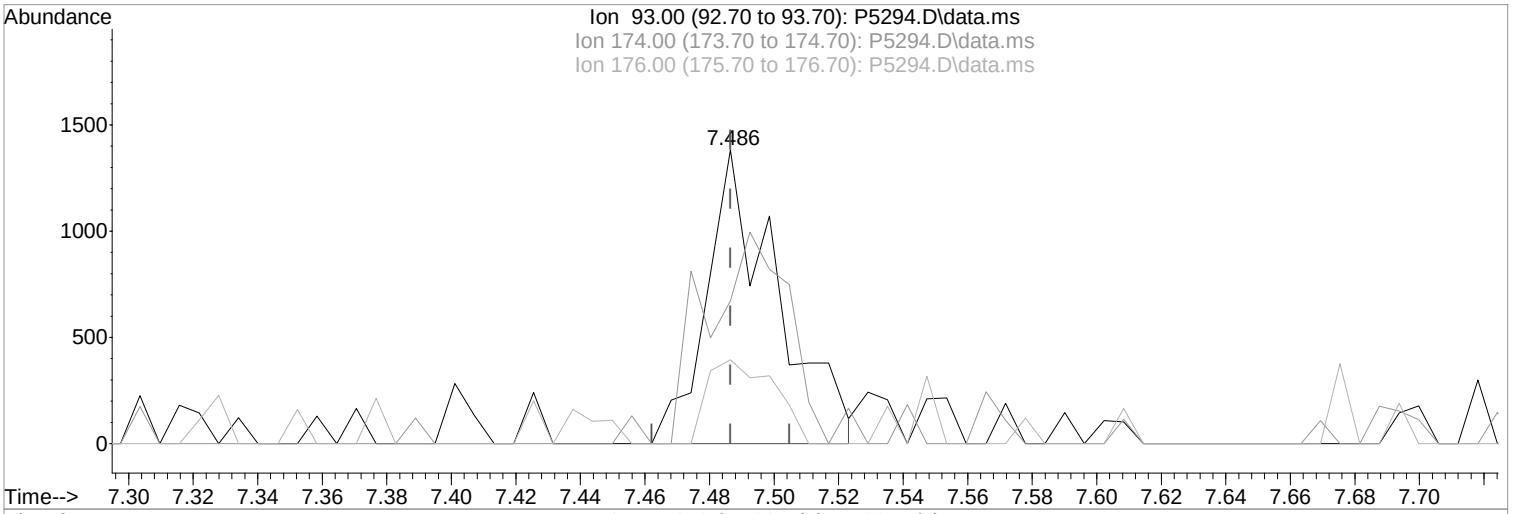
Before

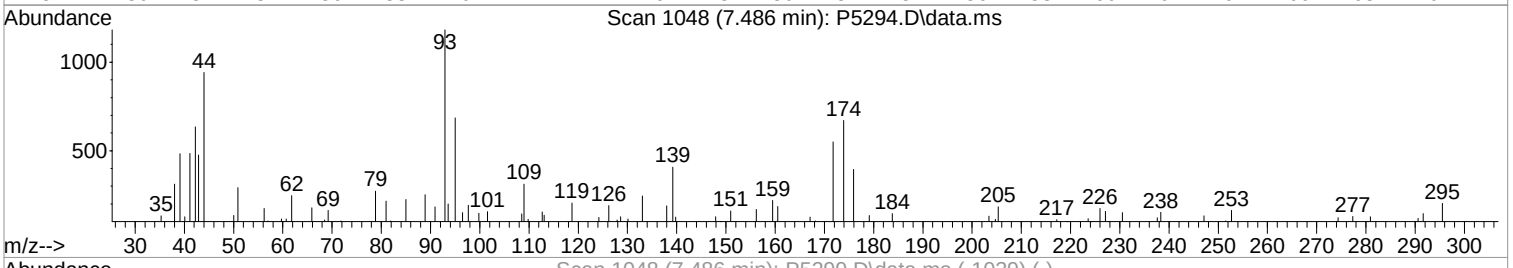
09/27/16

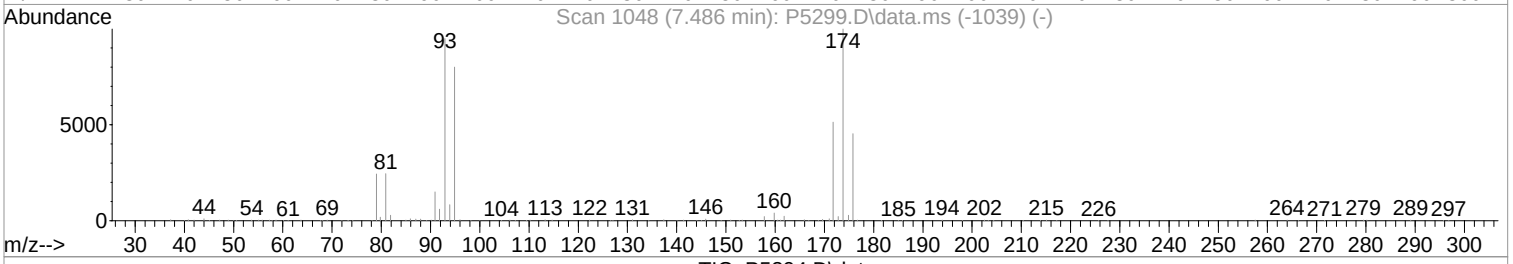
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(57) Dibromomethane

7.486min (-0.000) 0.68 ppb m

response 2081

Ion	Exp%	Act%
93.00	100	100
174.00	105.30	56.72#
176.00	48.30	33.39
0.00	0.00	0.00

Manual Integration:

After

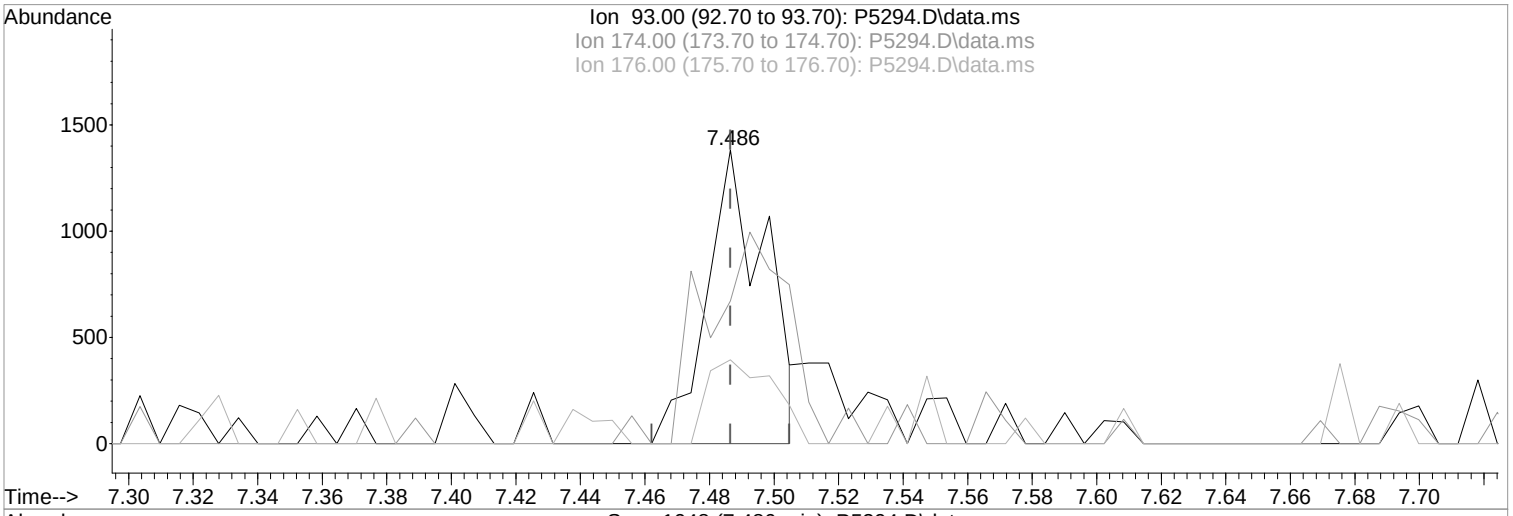
Split Peak

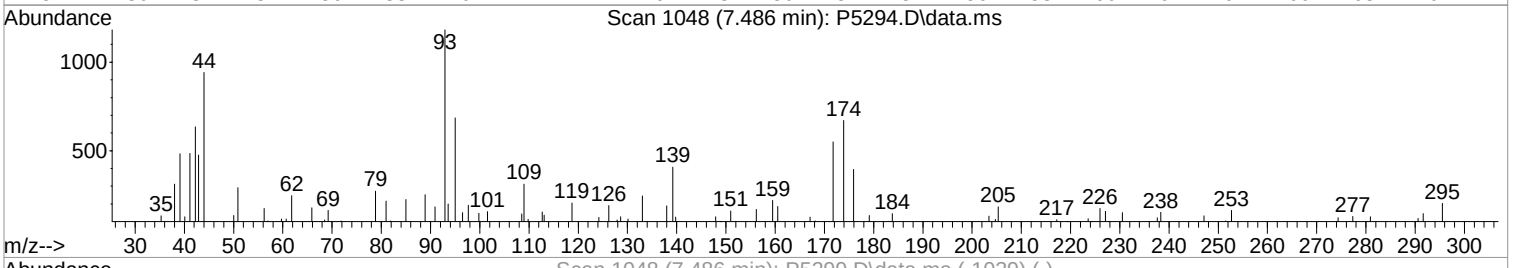
09/27/16

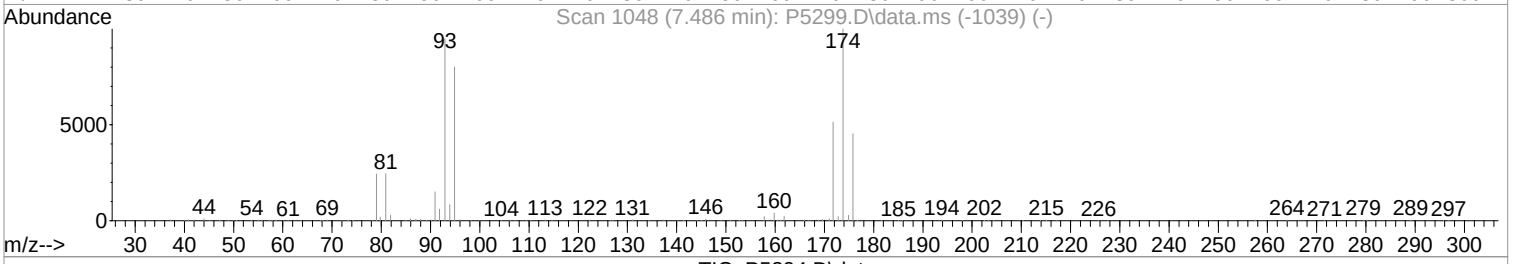
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(57) Dibromomethane

7.486min (-0.000) 0.58 ppb

response 1760

Ion	Exp%	Act%
93.00	100	100
174.00	105.30	48.52#
176.00	48.30	28.56
0.00	0.00	0.00

Manual Integration:

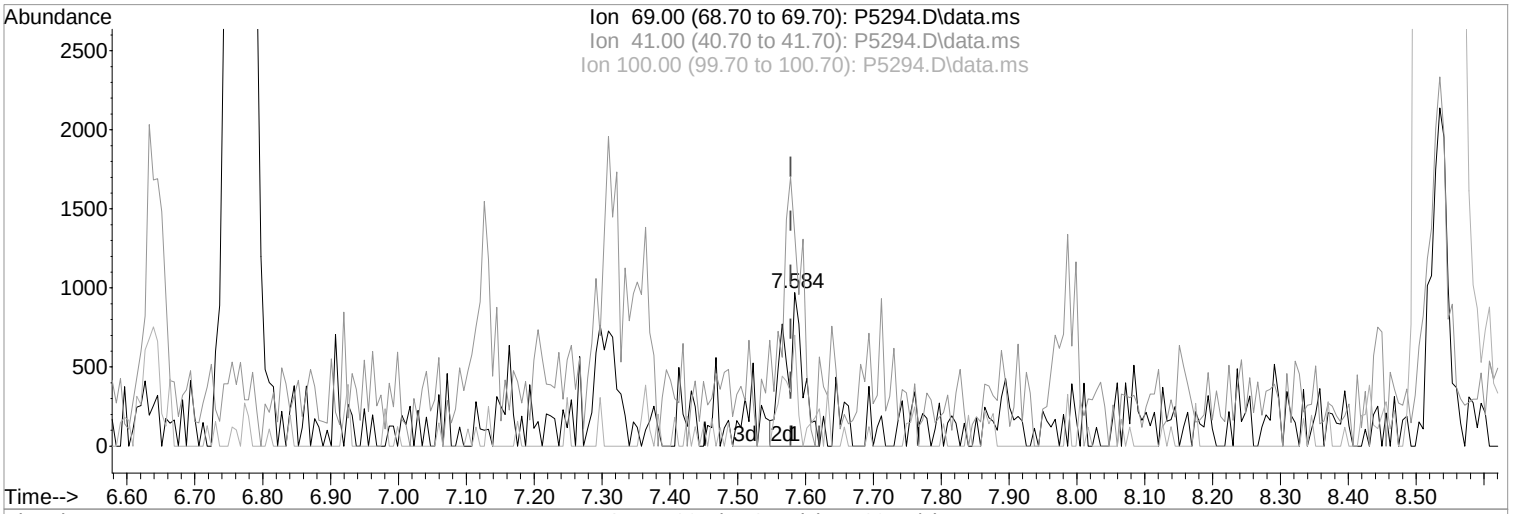
Before

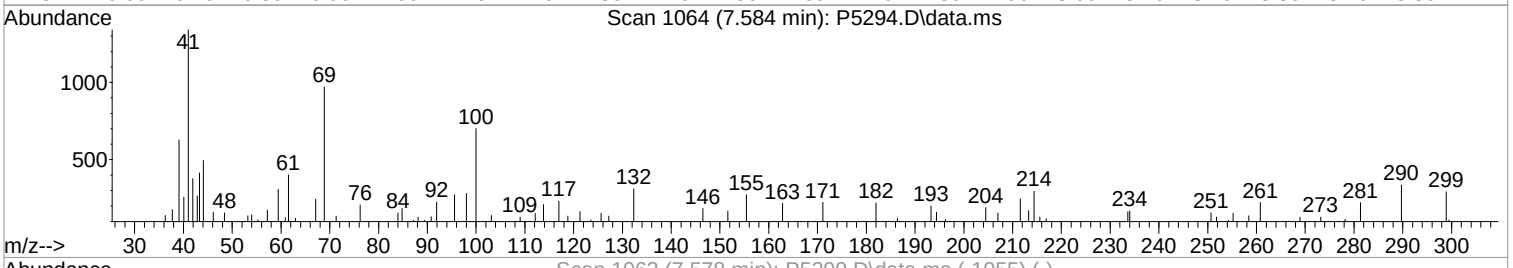
09/27/16

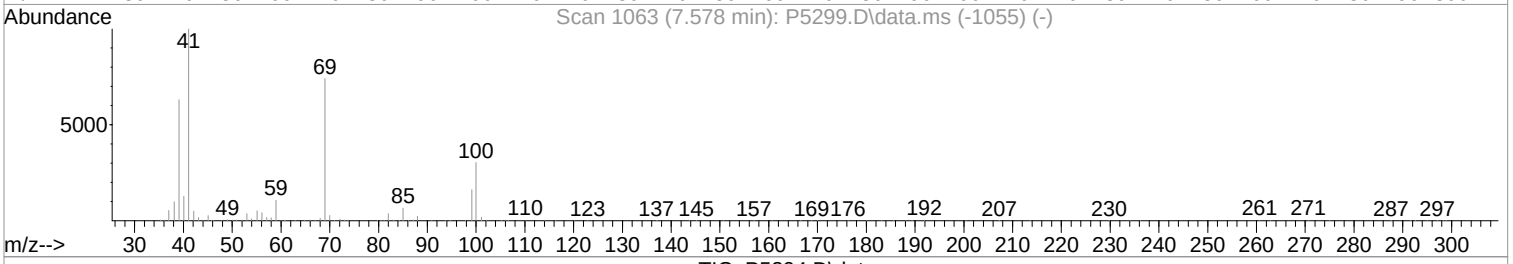
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(59) Methyl Methacrylate

7.584min (+0.006) 0.58 ppb m

response 1847

Ion	Exp%	Act%
69.00	100	100
41.00	135.50	138.25
100.00	41.00	72.37#
0.00	0.00	0.00

Manual Integration:

After

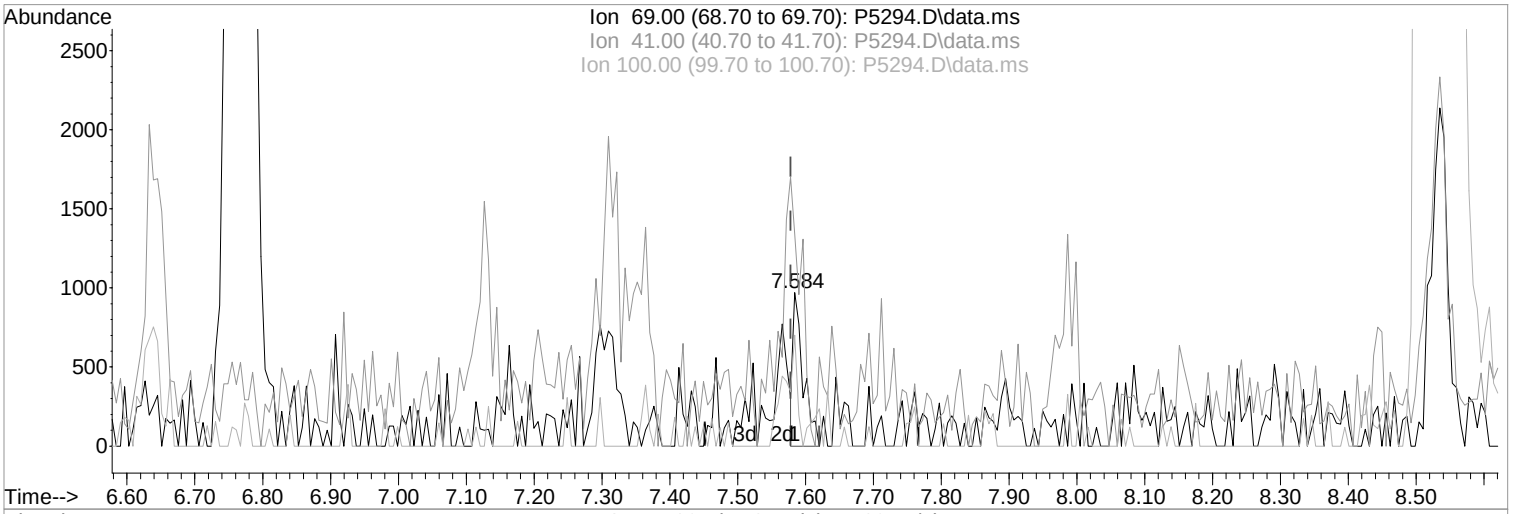
Split Peak

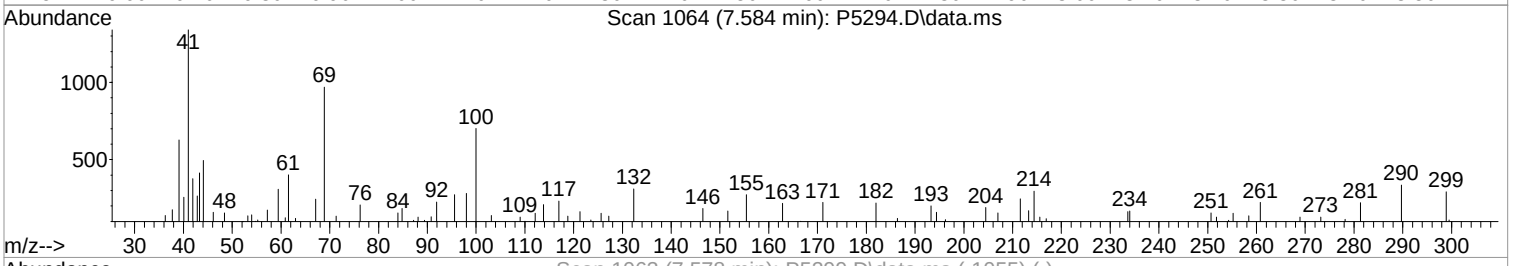
09/27/16

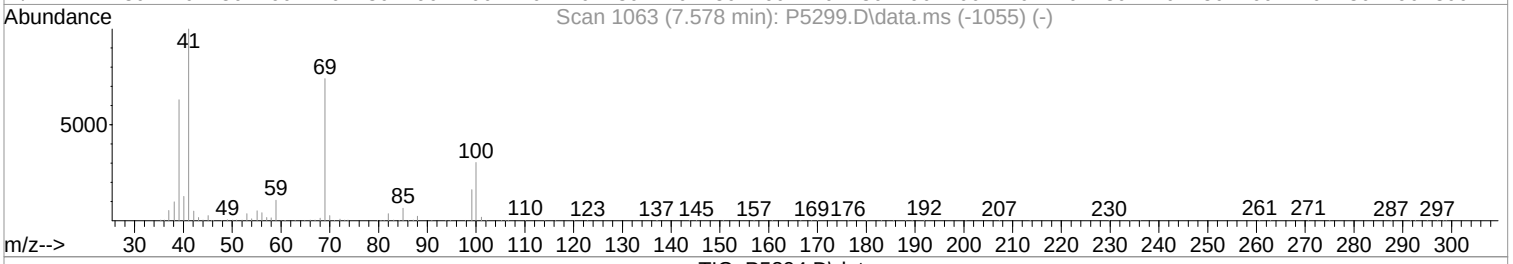
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(59) Methyl Methacrylate

7.584min (+0.006) 0.32 ppb

response 1017

Ion	Exp%	Act%
69.00	100	100
41.00	135.50	138.25
100.00	41.00	72.37#
0.00	0.00	0.00

Manual Integration:

Before

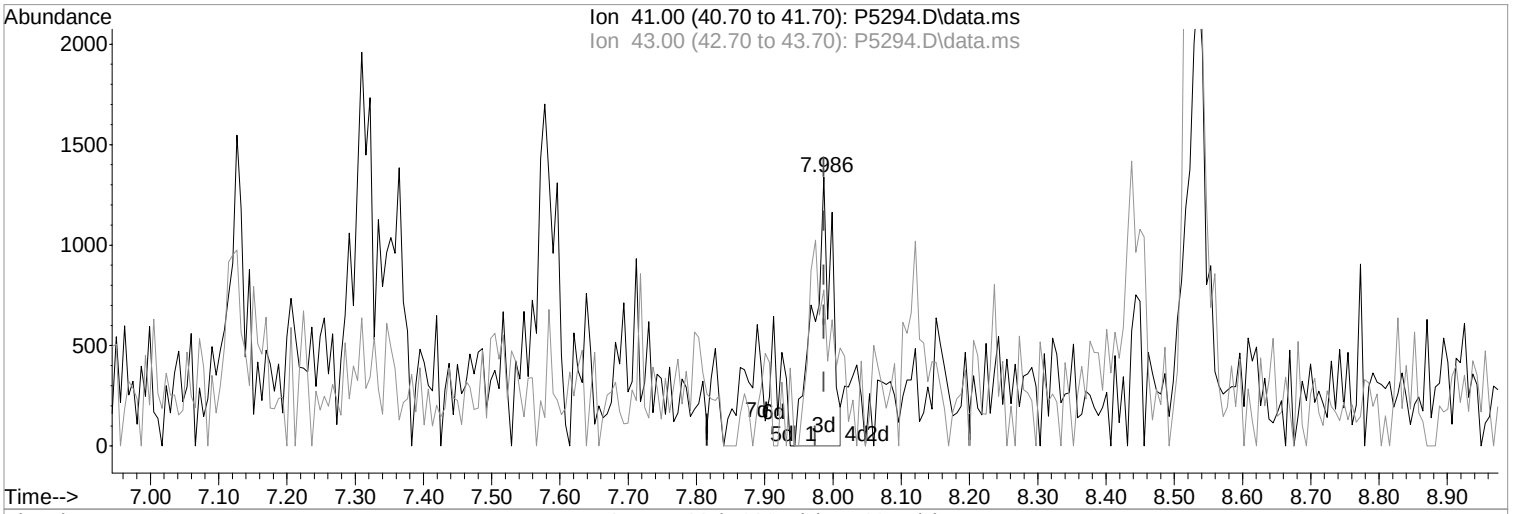
09/27/16

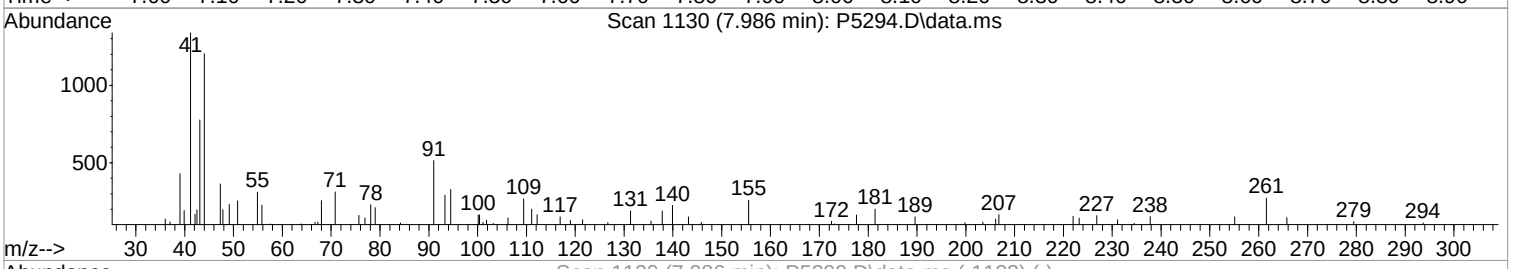
1st 09/27/16
2nd 09/27/16

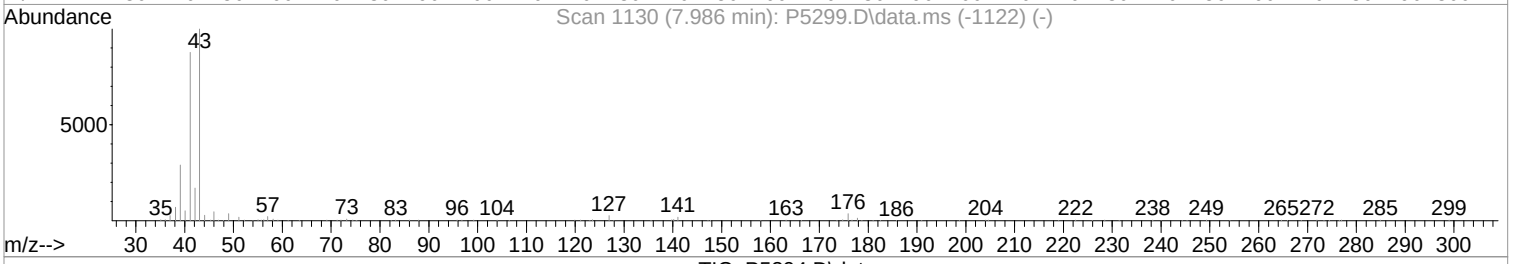
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(61) 2-Nitropropane

7.986min (-0.000) 2.15 ppb m

response 2416

Ion	Exp%	Act%
41.00	100	100
43.00	113.60	58.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

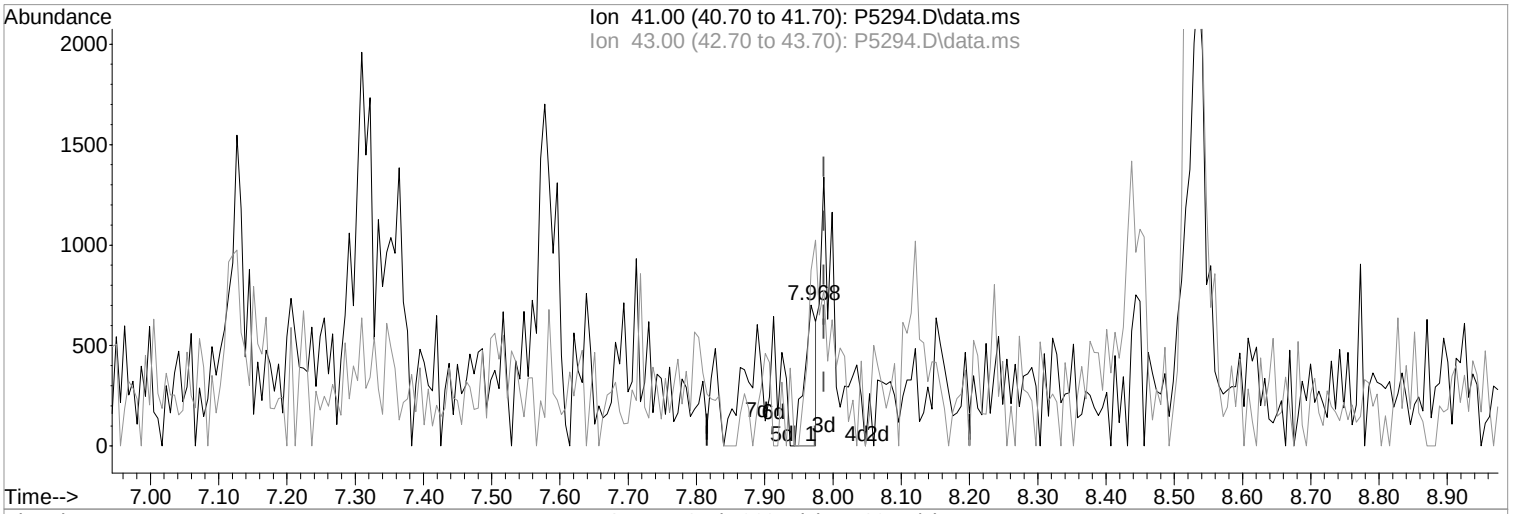
Split Peak

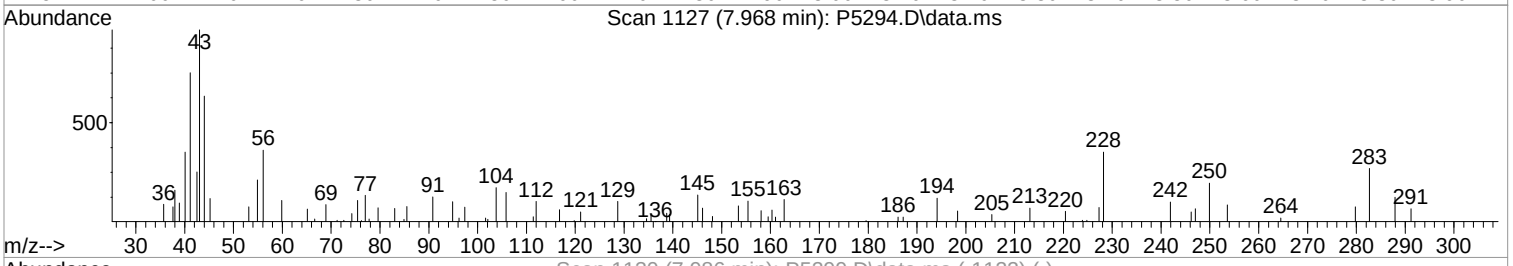
09/27/16

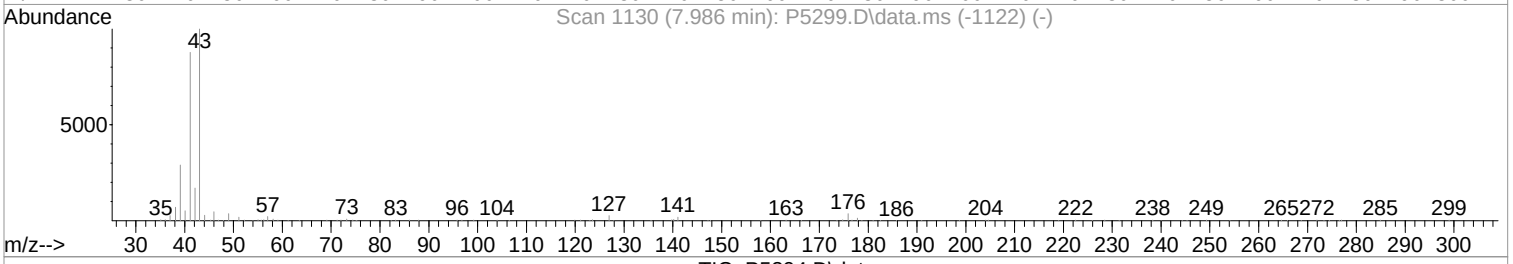
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(61) 2-Nitropropane

7.968min (-0.018) 0.74 ppb

response 833

Ion	Exp%	Act%
41.00	100	100
43.00	113.60	124.68
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

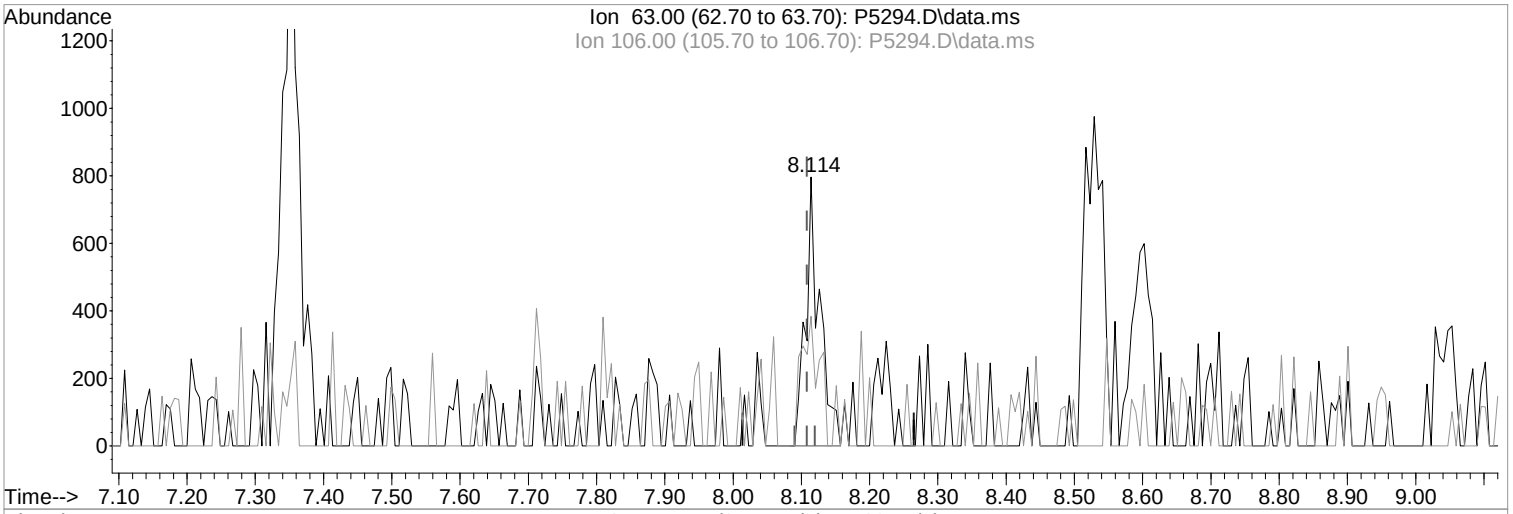
Before

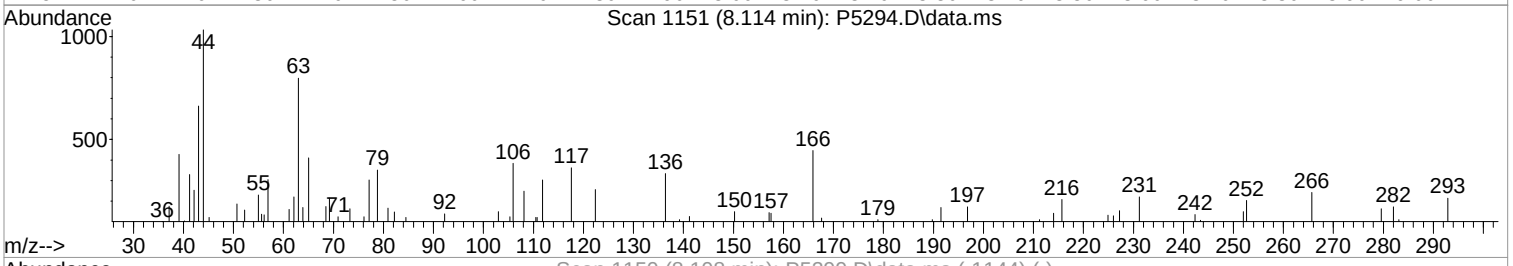
09/27/16

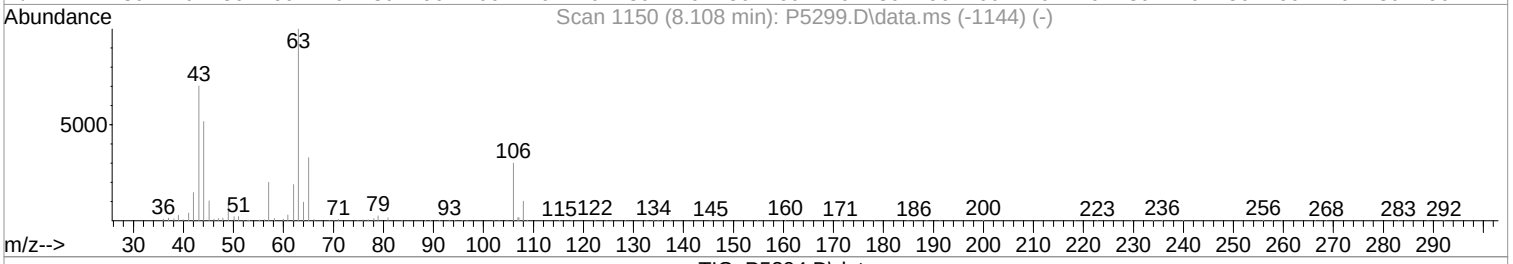
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(62) 2-Chloroethylvinyl Ether

8.114min (+0.006) 0.47 ppb m

response 1141

Ion	Exp%	Act%
63.00	100	100
106.00	30.10	48.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

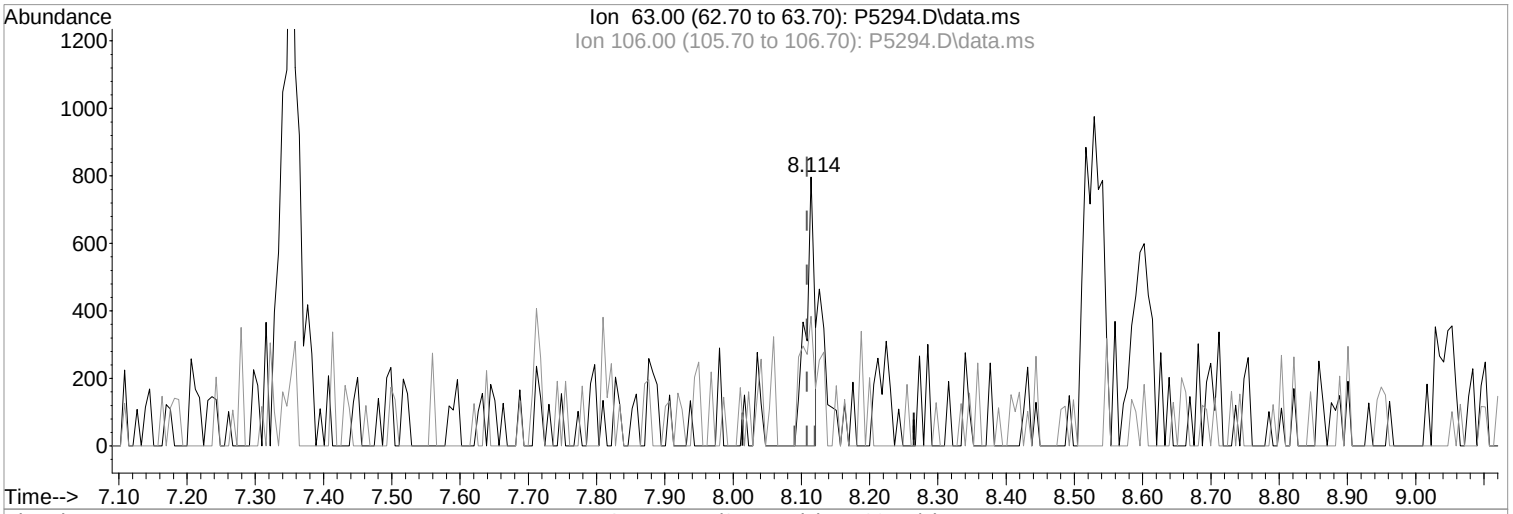
09/27/16

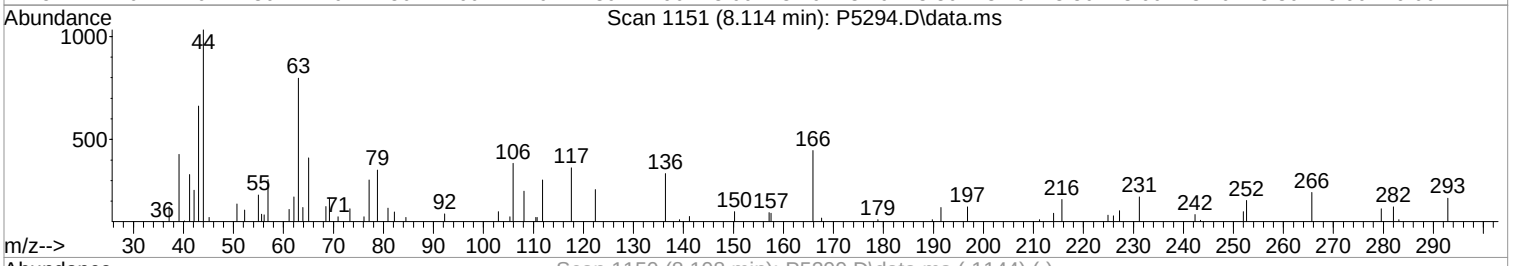
1st 09/27/16
2nd 09/27/16

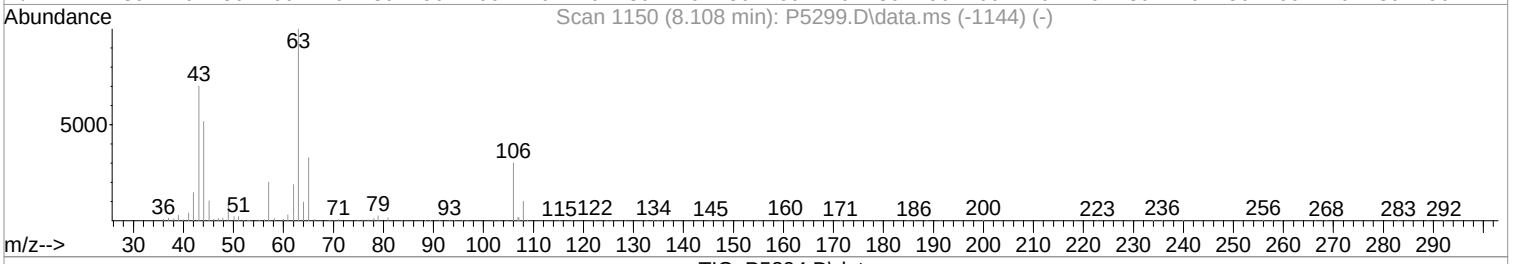
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(62) 2-Chloroethylvinyl Ether

8.114min (+0.006) 0.29 ppb

response 719

Ion	Exp%	Act%
63.00	100	100
106.00	30.10	48.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

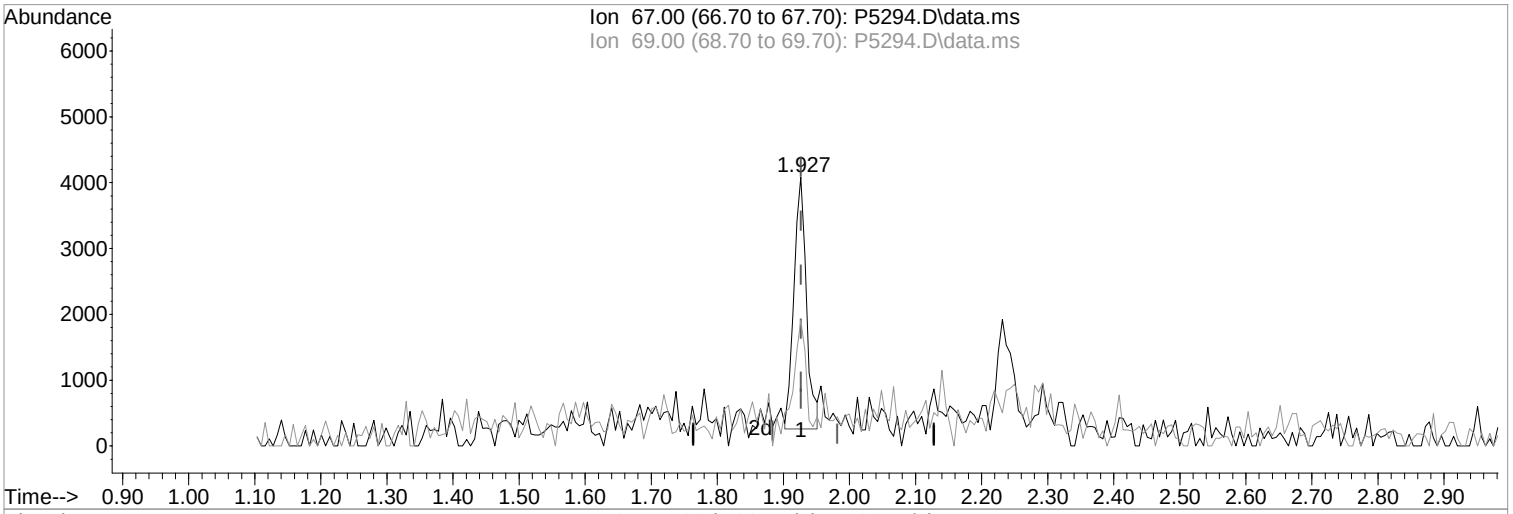
Before

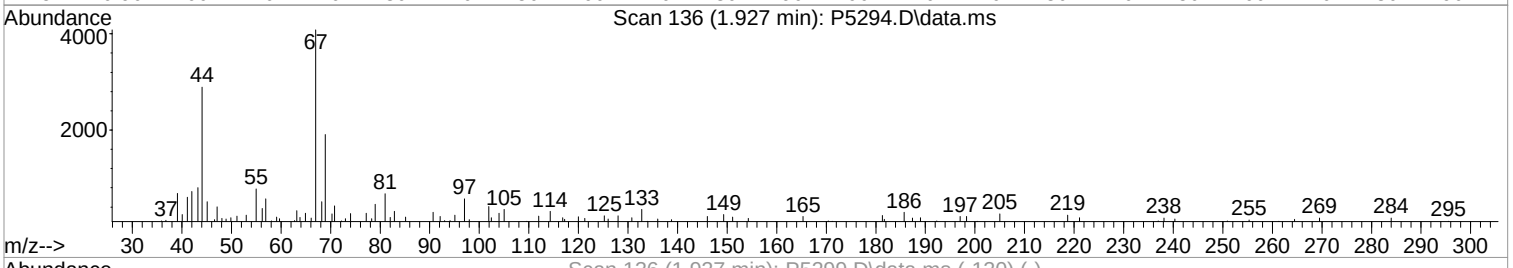
09/27/16

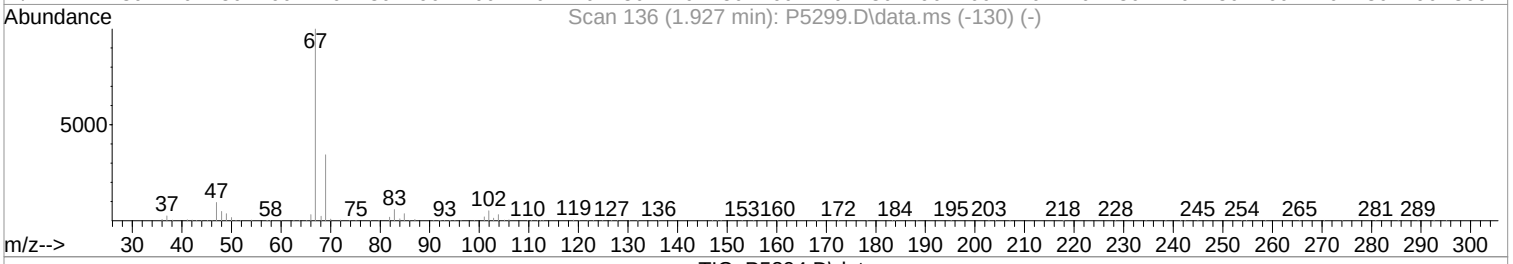
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(7) Freon 21

1.927min (-0.000) 0.65 ppb m

response 5017

Ion	Exp%	Act%
67.00	100	100
69.00	34.40	46.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

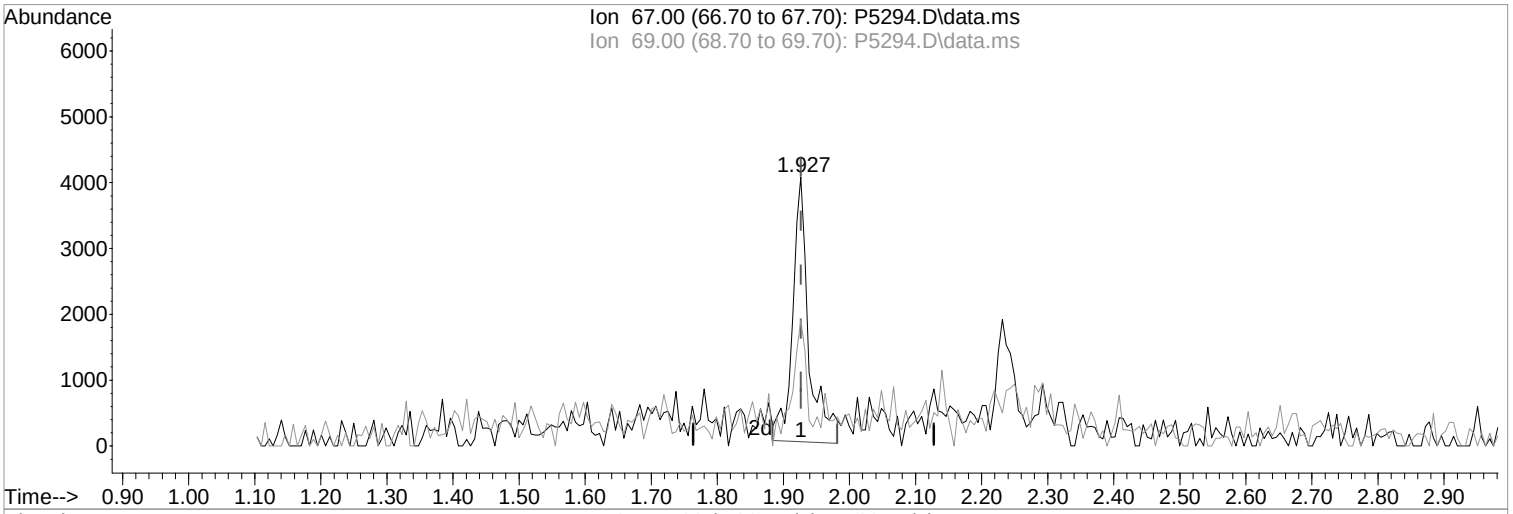
Poor integration.

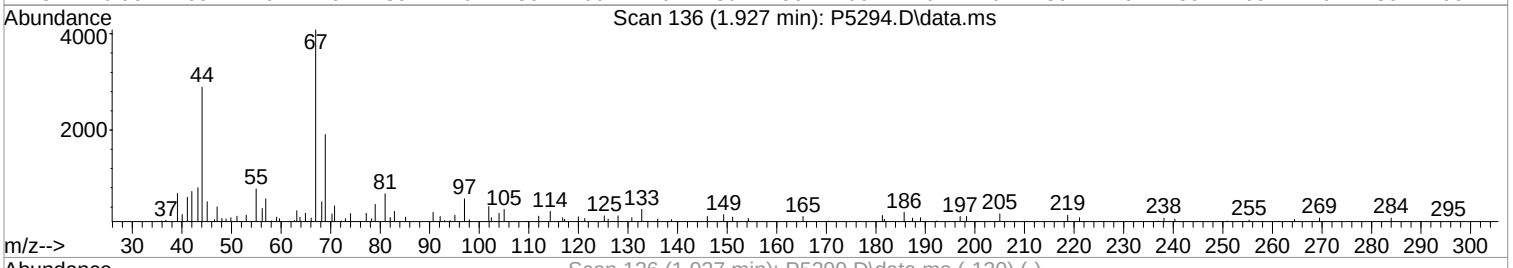
09/27/16

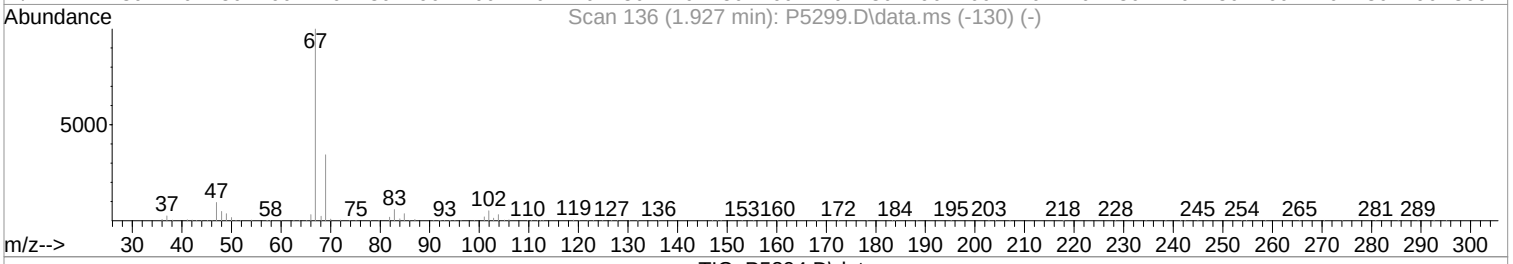
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:03:17 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5294.D\data.ms

(7) Freon 21

1.927min (-0.000) 0.89 ppb

response 6878

Ion	Exp%	Act%
67.00	100	100
69.00	34.40	46.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:14:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	741142	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1161994	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1095125	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	601320	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	339442	54.73	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.46%				
48) surr1,1,2-dichloroetha...	6.096	65	380814	54.06	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 108.12%				
65) SURR3,Toluene-d8	8.529	98	1437220	56.55	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 113.10%				
70) SURR2,BFB	11.047	95	544189	54.89	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	3803m	0.47	ppb		
3) Chloromethane	1.341	50	3354	0.49	ppb		66
4) Vinyl Chloride	1.433	62	3261	0.56	ppb	#	56
5) Bromomethane	1.683	94	2781	0.73	ppb	#	79
6) Chloroethane	1.762	64	2621	0.78	ppb		96
7) Freon 21	1.927	67	5017m	0.65	ppb		
8) Trichlorofluoromethane	1.975	101	3285	0.48	ppb	#	64
9) Diethyl Ether	2.225	59	1694	0.57	ppb	#	76
10) Freon 123a	2.231	67	2597	0.54	ppb		98
11) Freon 123	2.298	83	4241	0.69	ppb		93
13) 1,1-Diclethene	2.433	96	3330	0.65	ppb	#	58
14) Freon 113	2.433	101	3125m	0.57	ppb		
16) 2-Propanol	2.646	45	3750	14.55	ppb		62
17) Iodomethane	2.567	142	3204m	0.46	ppb		
18) Carbon Disulfide	2.628	76	8611	0.53	ppb		96
20) Allyl Chloride	2.792	76	1932	0.64	ppb	#	72
22) Methylene Chloride	2.920	84	3047	0.55	ppb	#	77
23) TBA	3.091	59	4774	11.63	ppb		82
24) Acrylonitrile	3.213	53	3888	2.73	ppb		88
25) Methyl-t-Butyl Ether	3.262	73	7843	0.54	ppb		88
26) trans-1,2-Dichloroethene	3.243	96	3577	0.62	ppb		85
28) 1,1-Diclethane	3.792	63	5283m	0.55	ppb		
30) DIPE	3.938	45	10367	0.55	ppb		84
31) 2-Chloro-1,3-Butadiene	3.938	53	5302	0.58	ppb		88
32) ETBE	4.524	59	8061	0.48	ppb	#	61
33) 2,2-Dichloropropane	4.706	77	5303m	0.60	ppb		
34) cis-1,2-Dichloroethene	4.706	96	3334m	0.56	ppb		
37) Bromochloromethane	5.133	130	2707m	0.80	ppb		
40) Chloroform	5.328	83	4916m	0.52	ppb		
41) 1,1,1-Trichloroethane	5.584	97	5374m	0.62	ppb		
42) TAME	6.407	73	8354	0.55	ppb		95
44) Cyclohexane	5.670	41	3239m	0.52	ppb		
46) Carbontetrachloride	5.859	121	1765m	0.72	ppb		
47) 1,1-Dichloropropene	5.877	75	4242	0.53	ppb		69
49) Benzene	6.176	78	11498	0.53	ppb		88
50) 1,2-Dichloroethane	6.200	62	3847	0.55	ppb		93
52) n-Heptane	6.633	43	4064m	0.52	ppb		
53) 1-Butanol	7.121	56	3455	31.20	ppb		99
54) Trichloroethene	7.072	130	3133m	0.51	ppb		

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:14:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
55)	Methylcyclohexane	7.316	55	5536m	0.72	ppb		
56)	1,2-Diclpropane	7.352	63	2769	0.48	ppb		64
57)	Dibromomethane	7.486	93	2081m	0.68	ppb		
59)	Methyl Methacrylate	7.584	69	1847m	0.58	ppb		
60)	Bromodichloromethane	7.706	83	4096	0.55	ppb		70
61)	2-Nitropropane	7.986	41	2416m	2.15	ppb		
62)	2-Chloroethylvinyl Ether	8.114	63	1141m	0.47	ppb		
63)	cis-1,3-Dichloropropene	8.242	75	4143	0.45	ppb		75
66)	Toluene	8.608	91	13584	0.57	ppb	#	73
67)	trans-1,3-Dichloropropene	8.864	75	4719	0.57	ppb		96
68)	Ethyl Methacrylate	8.998	69	3088	0.48	ppb	#	58
69)	1,1,2-Trichloroethane	9.047	97	2310	0.54	ppb		91
72)	Tetrachloroethene	9.187	164	2967	0.60	ppb	#	57
74)	1,3-Dichloropropane	9.212	76	4150	0.53	ppb		78
75)	Dibromochloromethane	9.431	129	2694	0.53	ppb	#	74
76)	N-Butyl Acetate	9.480	43	3972	0.52	ppb		90
77)	1,2-Dibromoethane	9.535	107	1968	0.46	ppb	#	77
78)	Chlorobenzene	10.016	112	9025	0.55	ppb		89
79)	3-CBTF	10.029	180	4803	0.53	ppb	#	92
80)	4-CBTF	10.083	180	4031	0.50	ppb	#	80
81)	1,1,1,2-Tetrachloroethane	10.102	131	2974	0.51	ppb		96
82)	Ethylbenzene	10.138	106	4338	0.49	ppb	#	75
83)	(m+p)Xylene	10.242	106	11866	1.11	ppb		96
84)	o-Xylene	10.596	106	6303	0.58	ppb	#	83
85)	Styrene	10.608	104	10024	0.56	ppb		85
87)	Bromoform	10.760	173	1369	0.49	ppb	#	64
88)	2-CBTF	10.833	180	6300	0.71	ppb	#	77
89)	Isopropylbenzene	10.925	105	14651	0.54	ppb		88
90)	Cyclohexanone	10.986	55	3306	12.47	ppb		87
91)	trans-1,4-Dichloro-2-B...	11.236	53	556	0.37	ppb		79
92)	1,1,2,2-Tetrachloroethane	11.181	83	2575	0.52	ppb	#	70
93)	Bromobenzene	11.169	156	3848	0.54	ppb	#	64
94)	1,2,3-Trichloropropane	11.217	110	885	0.56	ppb	#	57
95)	n-Propylbenzene	11.278	91	16830	0.53	ppb		97
96)	2-Chlorotoluene	11.345	91	9187	0.49	ppb		88
97)	3-Chlorotoluene	11.388	91	10311	0.54	ppb	#	97
98)	4-Chlorotoluene	11.431	91	12036	0.55	ppb		94
99)	1,3,5-Trimethylbenzene	11.431	105	12124	0.53	ppb		96
100)	tert-Butylbenzene	11.699	119	10993	0.54	ppb		90
101)	1,2,4-Trimethylbenzene	11.742	105	12905	0.54	ppb		74
102)	3,4-DCBTF	11.803	214	3068	0.44	ppb		97
103)	sec-Butylbenzene	11.882	105	14940	0.52	ppb		93
104)	p-Isopropyltoluene	12.004	119	14313	0.58	ppb		88
105)	1,3-Dclbenz	11.967	146	7411	0.54	ppb		91
106)	1,4-Dclbenz	12.034	146	8270	0.59	ppb		85
107)	2,4-DCBTF	12.083	214	3413	0.53	ppb	#	80
108)	2,5-DCBTF	12.132	214	4075	0.56	ppb		98
109)	n-Butylbenzene	12.333	91	11397	0.52	ppb		86
110)	1,2-Dclbenz	12.333	146	6726	0.52	ppb	#	74
111)	1,2-Dibromo-3-chloropr...	12.949	157	963	0.89	ppb	#	65
112)	Trielution Dichlorotol...	13.071	125	18217	1.56	ppb	#	86
113)	1,3,5 Trichlorobenzene	13.126	180	5429	0.53	ppb		94
114)	Coelution Dichlorotoluene	13.400	125	13329	1.05	ppb		92
115)	1,2,4-Tcbenzene	13.607	180	5379	0.58	ppb		98
116)	Hexachlorobt	13.747	225	2370	0.60	ppb	#	74
117)	Naphthalen	13.796	128	8815	0.55	ppb		87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:14:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118) 1,2,3-Tclbenzene	13.985	180	4656	0.58	ppb	88
119) 2,4,5-Trichlorotolene	14.570	159	3910m	0.69	ppb	
120) 2,3,6-Trichlorotoluene	14.656	159	2922	0.56	ppb	90

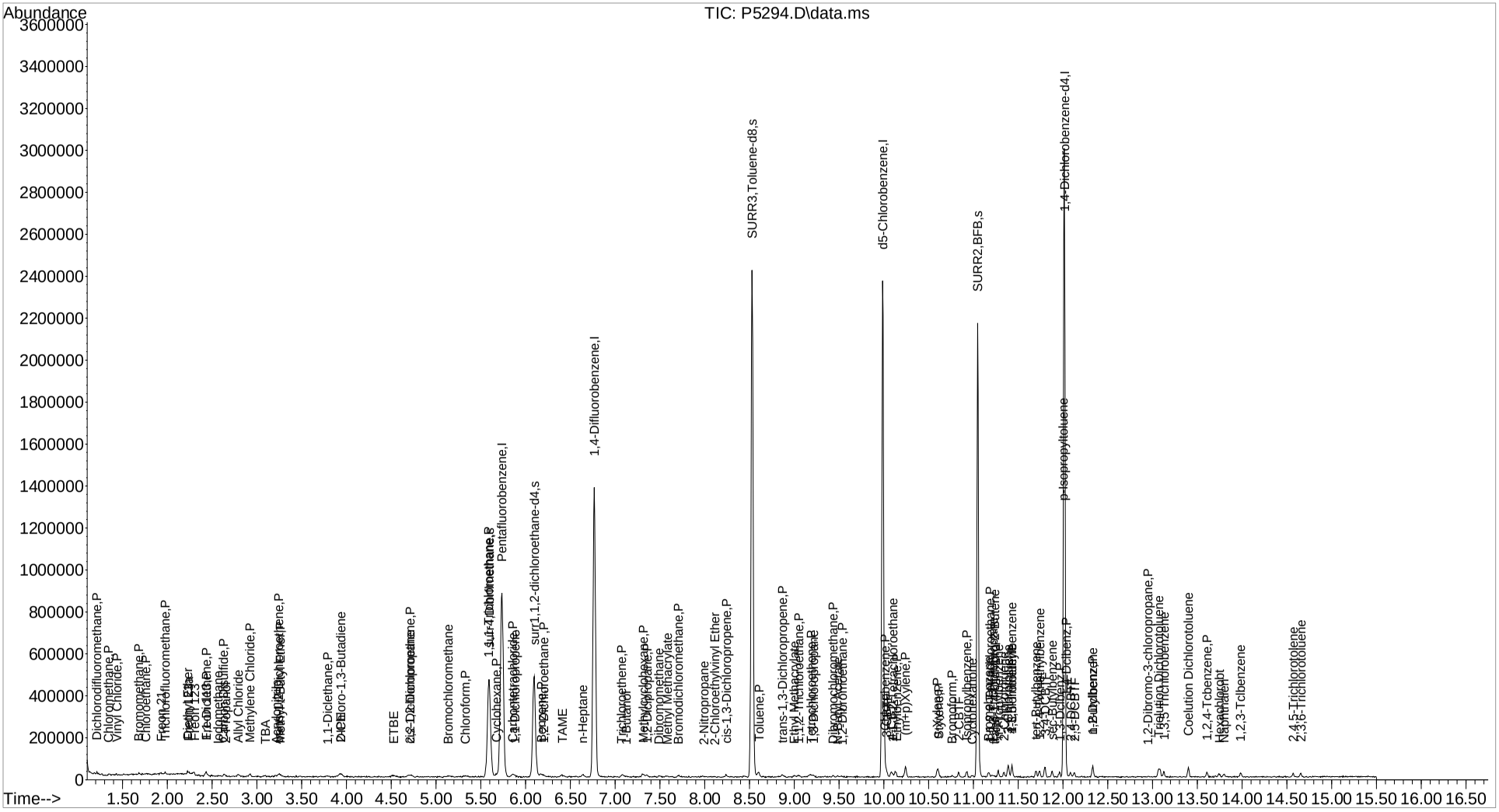
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5294.D
Acq On : 26 Sep 2016 5:16 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 10:14:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

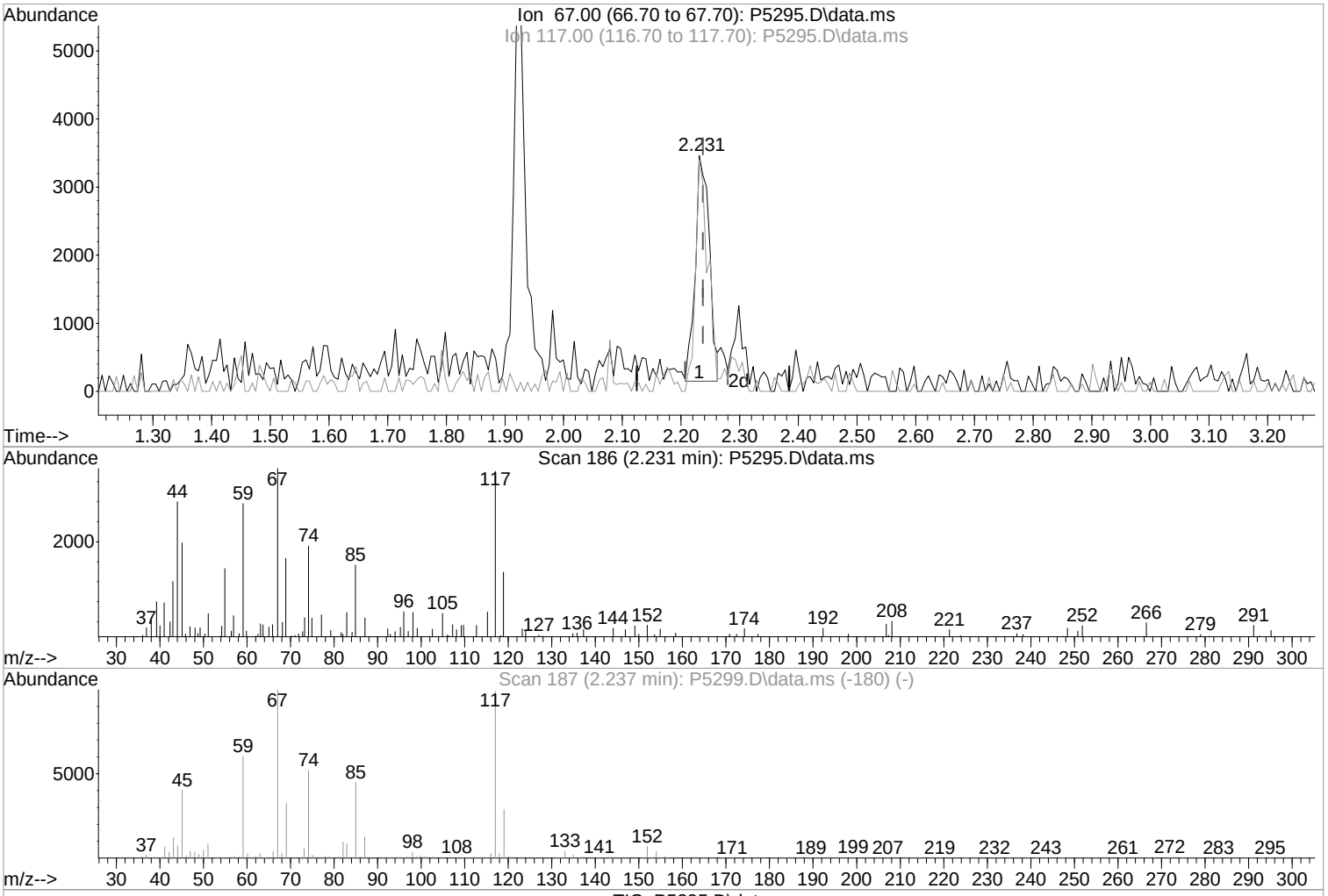
1st 09/27/16
2nd 09/27/16



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(10) Freon 123a

2.231min (-0.006) 1.13 ppb m

response 5537

Ion	Exp%	Act%
67.00	100	100
117.00	98.80	98.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

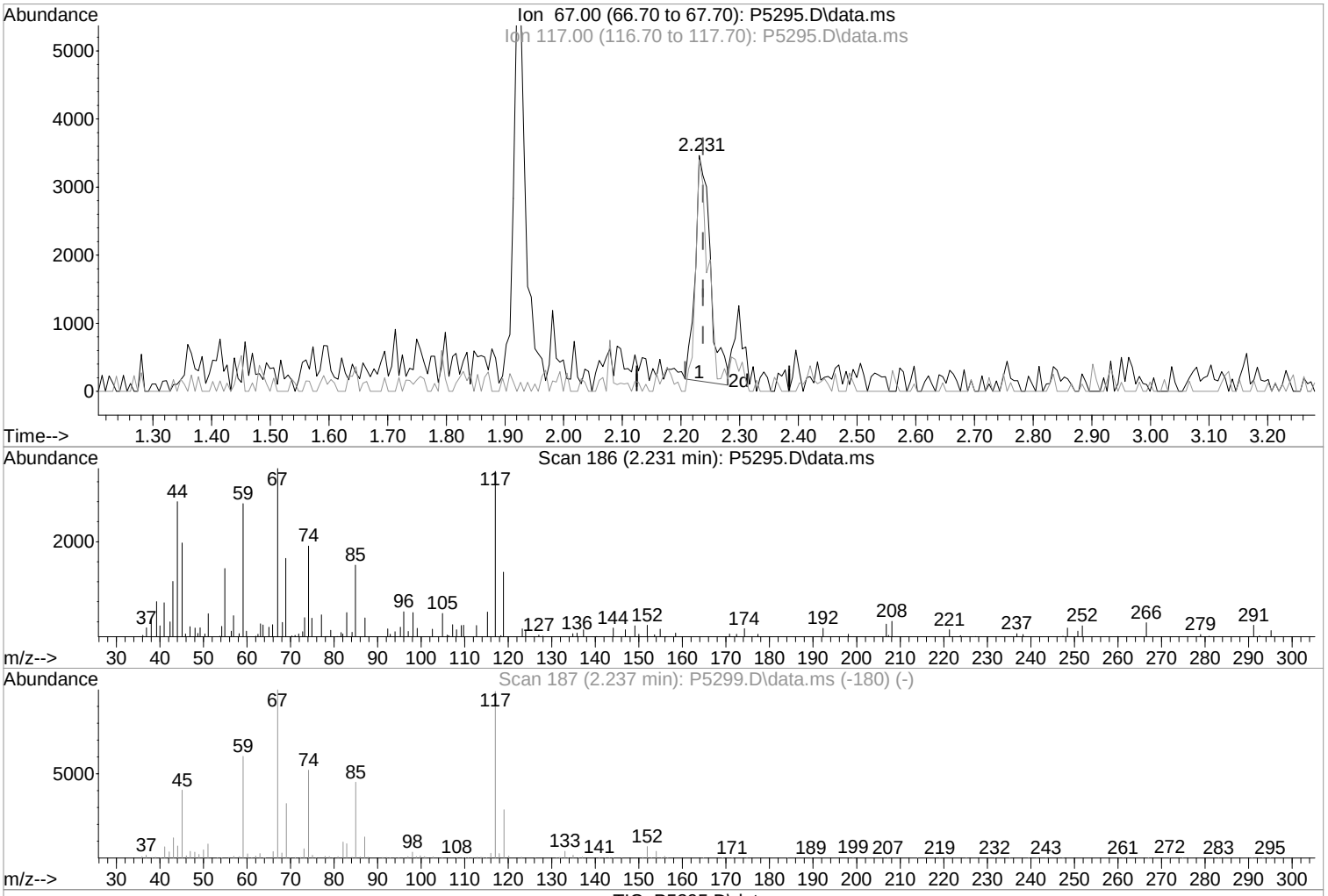
Poor integration.

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(10) Freon 123a

2.231min (-0.006) 1.22 ppb

response 5962

Ion	Exp%	Act%
67.00	100	100
117.00	98.80	98.24
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

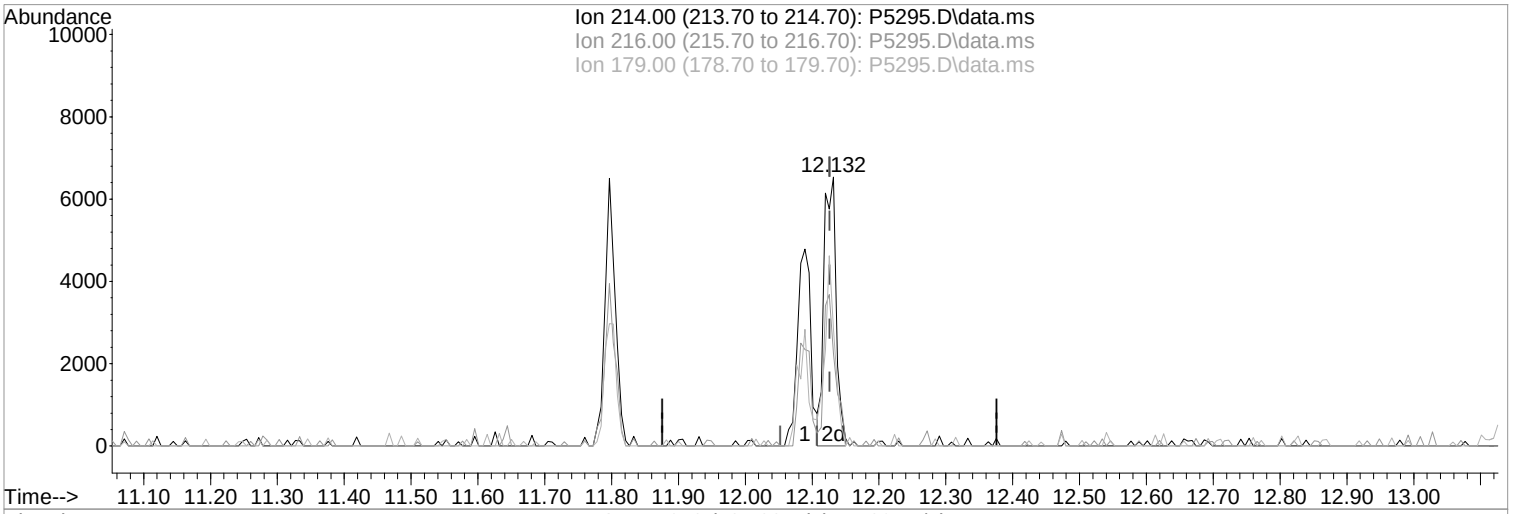
Before

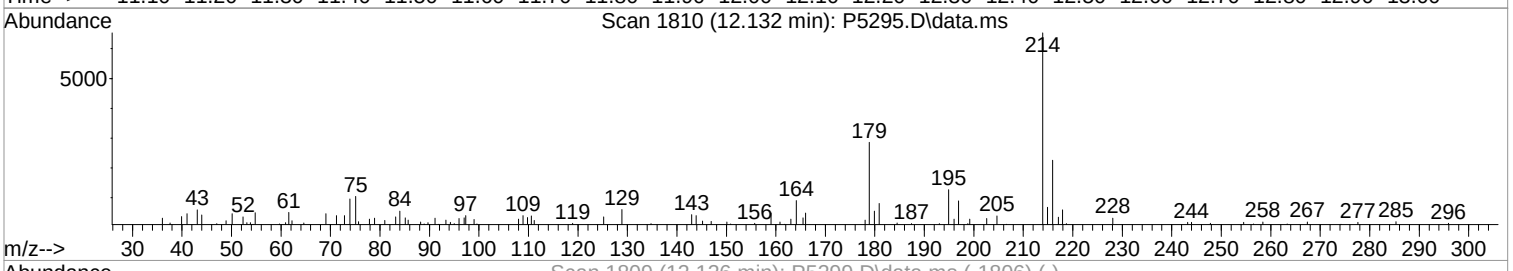
09/27/16

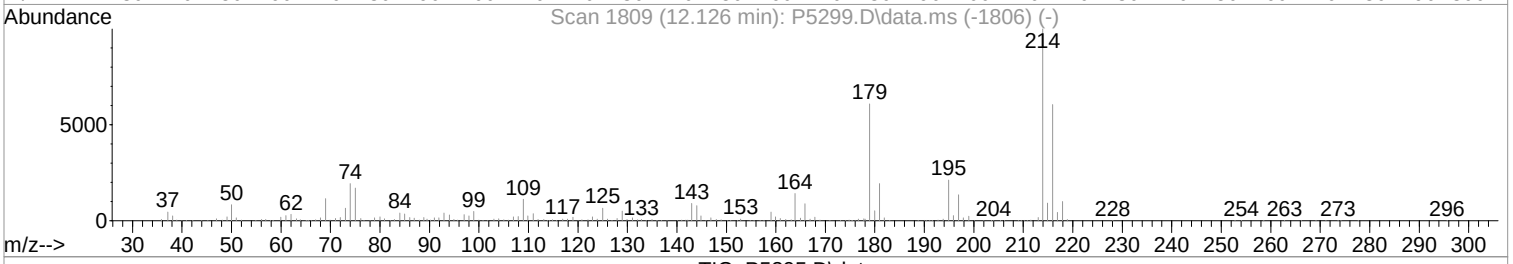
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(108) 2,5-DCBTF

12.132min (+0.006) 1.15 ppb m

response 8314

Ion	Exp%	Act%
214.00	100	100
216.00	60.60	34.55#
179.00	61.10	43.70#
0.00	0.00	0.00

Manual Integration:

After

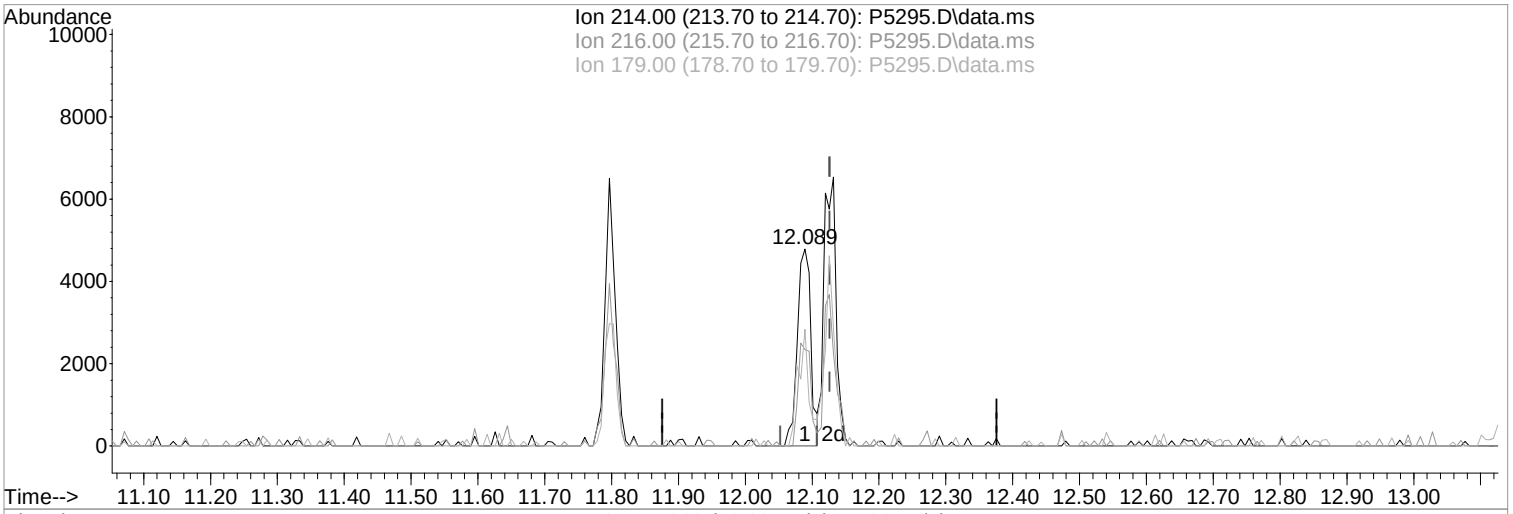
Wrong peak selected.

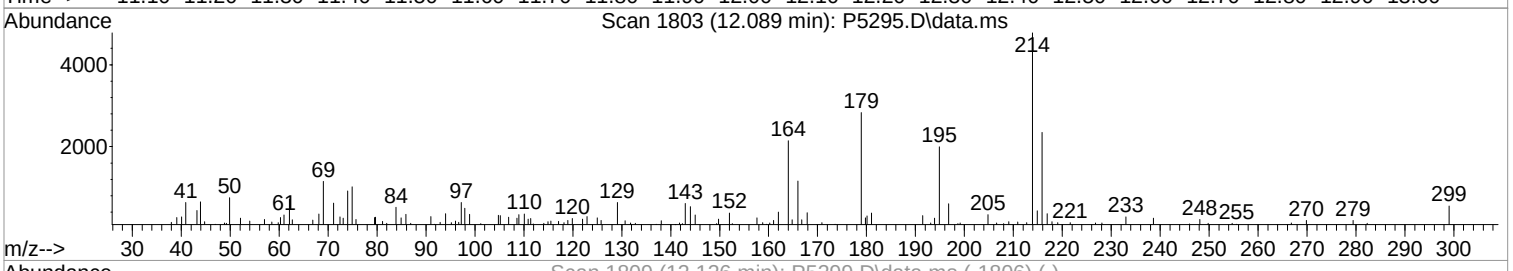
09/27/16

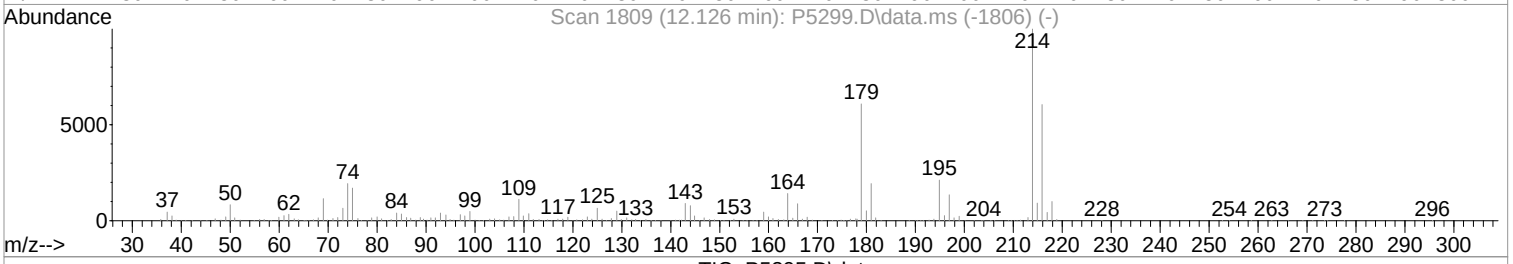
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(108) 2,5-DCBTF

12.089min (-0.037) 0.93 ppb

response 6721

Ion	Exp%	Act%
214.00	100	100
216.00	60.60	49.06
179.00	61.10	59.24
0.00	0.00	0.00

Manual Integration:

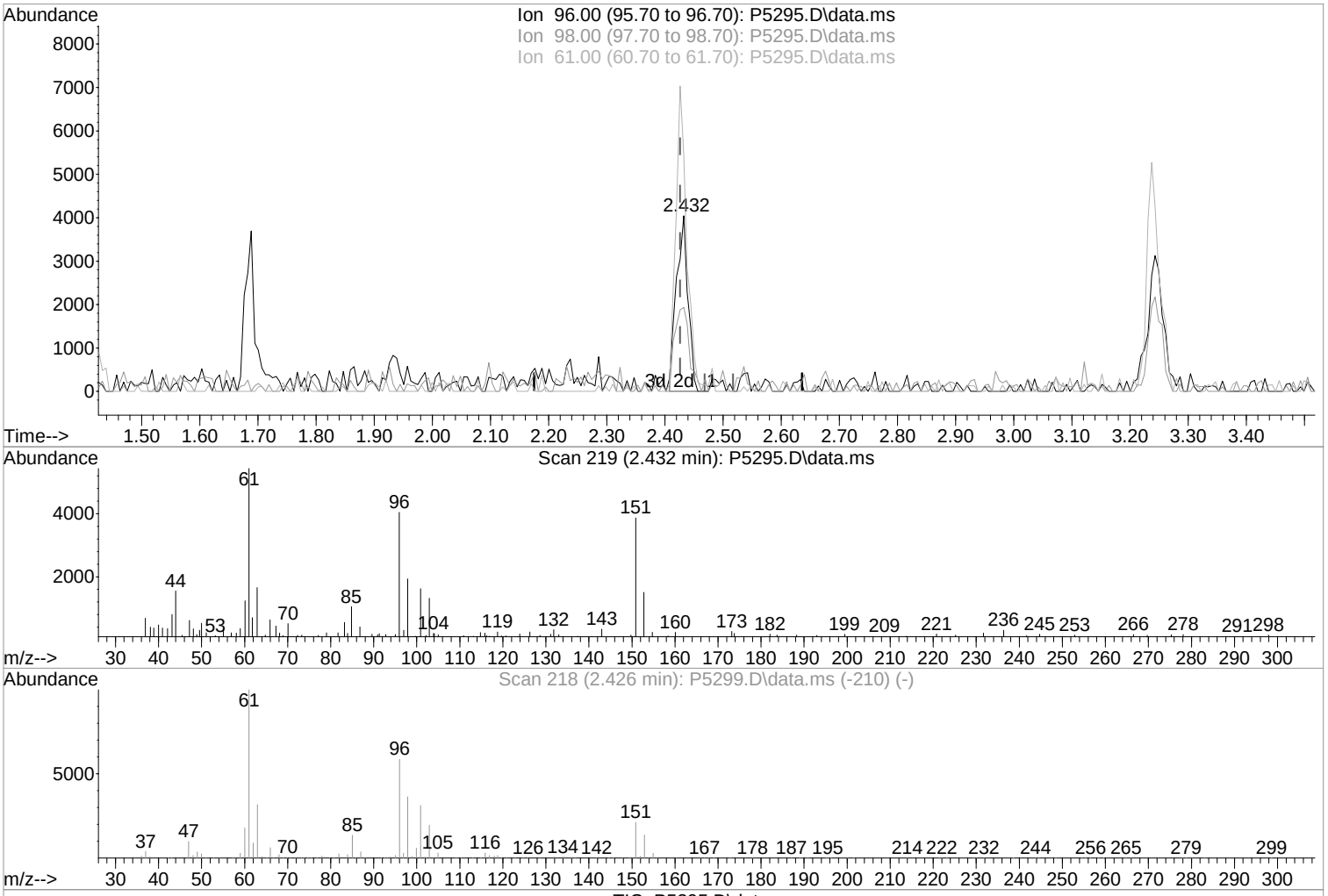
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(13) 1,1-Diclethene (P)

2.432min (+0.006) 1.06 ppb m

response 5593

Ion	Exp%	Act%
96.00	100	100
98.00	61.80	47.85
61.00	170.10	134.35#
0.00	0.00	0.00

Manual Integration:

After

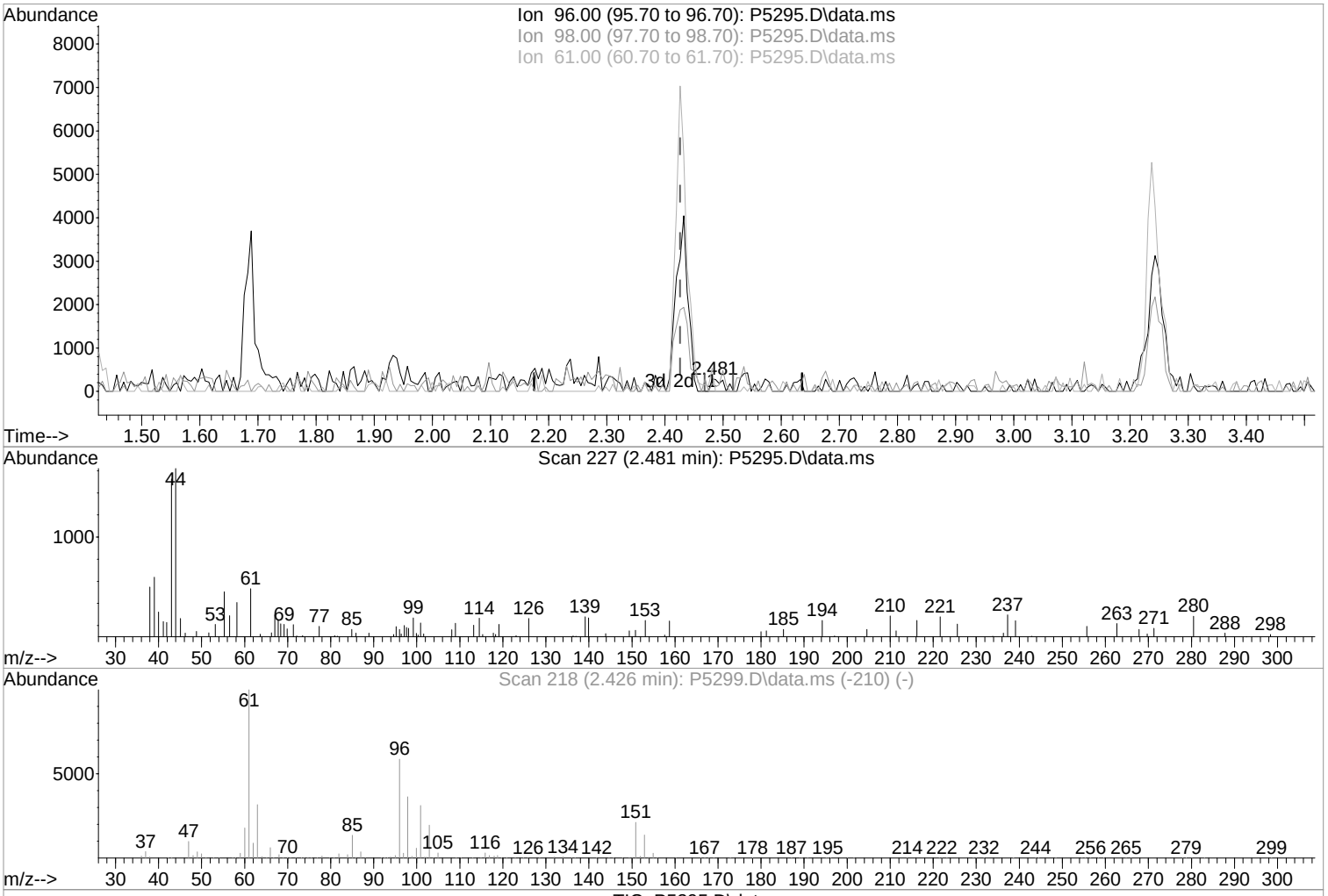
Peak not found.

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(13) 1,1-Diclethene (P)

2.481min (+0.055) 0.08 ppb

response 434

Ion	Exp%	Act%
96.00	100	100
98.00	61.80	61.11
61.00	170.10	185.42
0.00	0.00	0.00

Manual Integration:

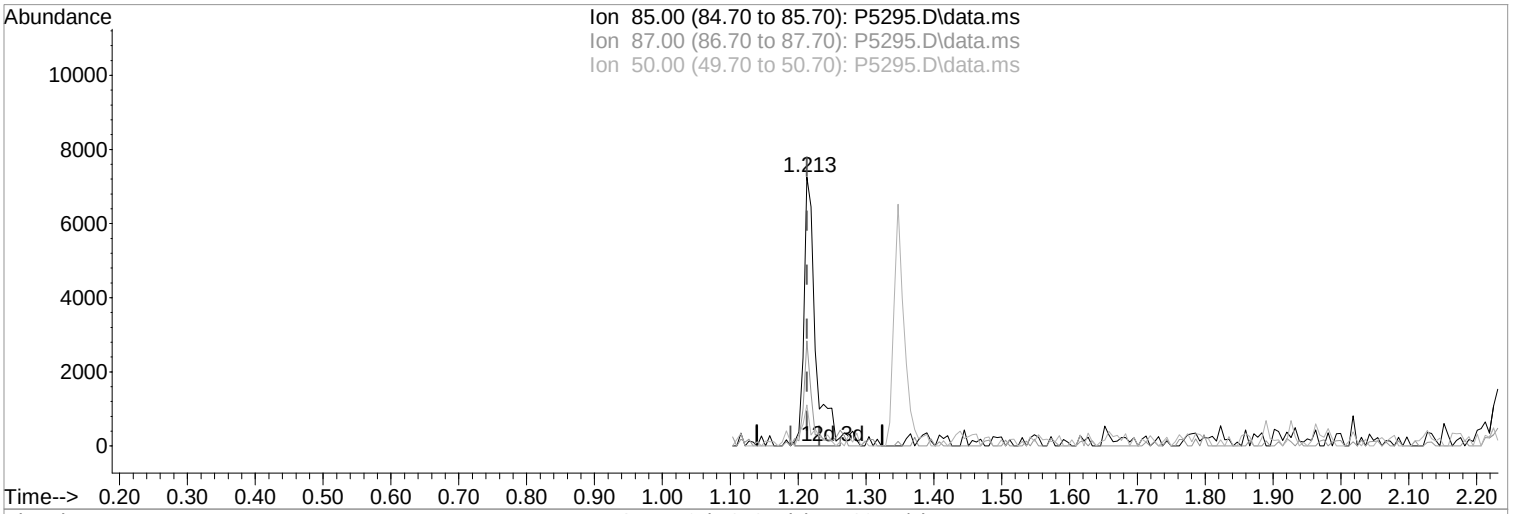
Before

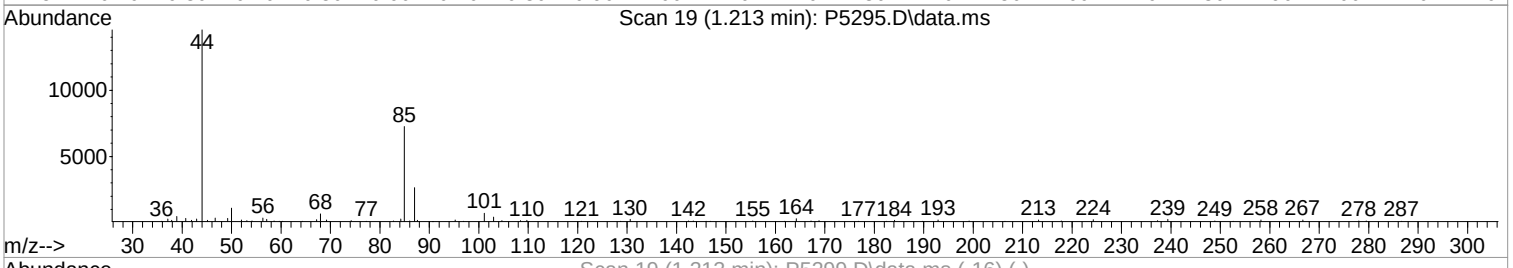
09/27/16

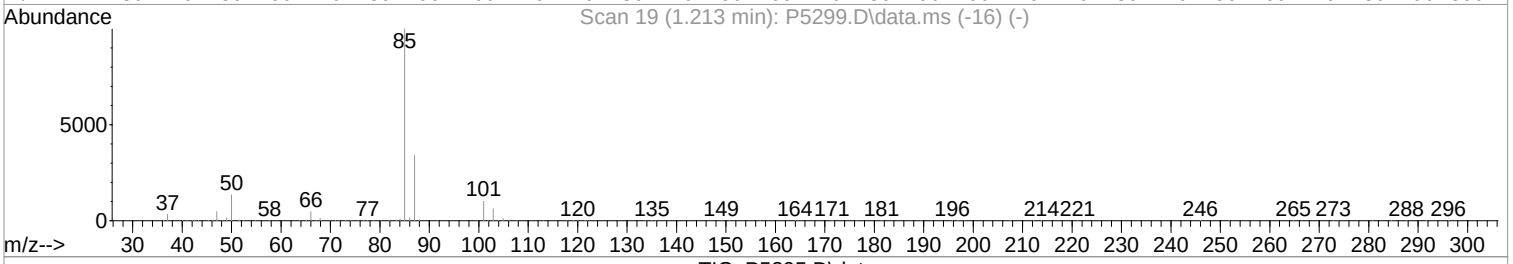
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 1.05 ppb m

response 8620

Ion	Exp%	Act%
85.00	100	100
87.00	34.00	36.58
50.00	13.50	15.26
0.00	0.00	0.00

Manual Integration:

After

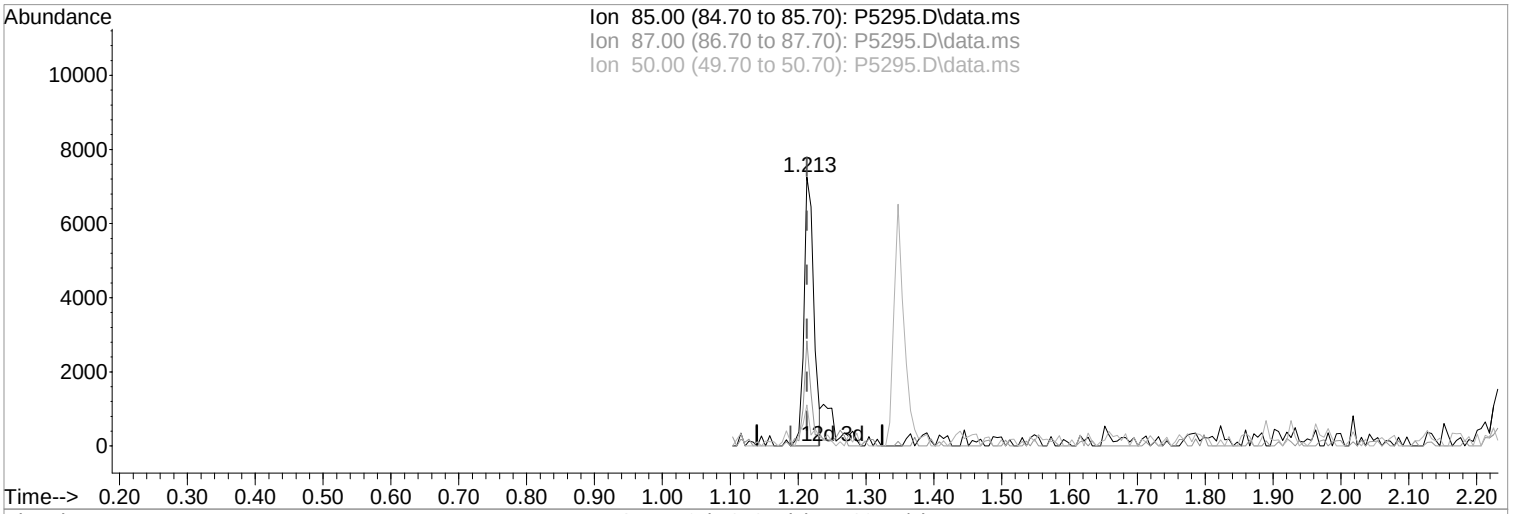
Split Peak

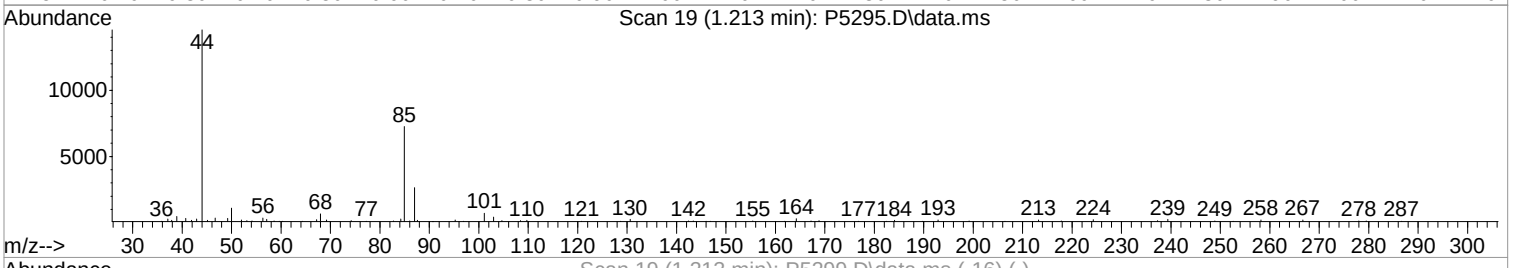
09/27/16

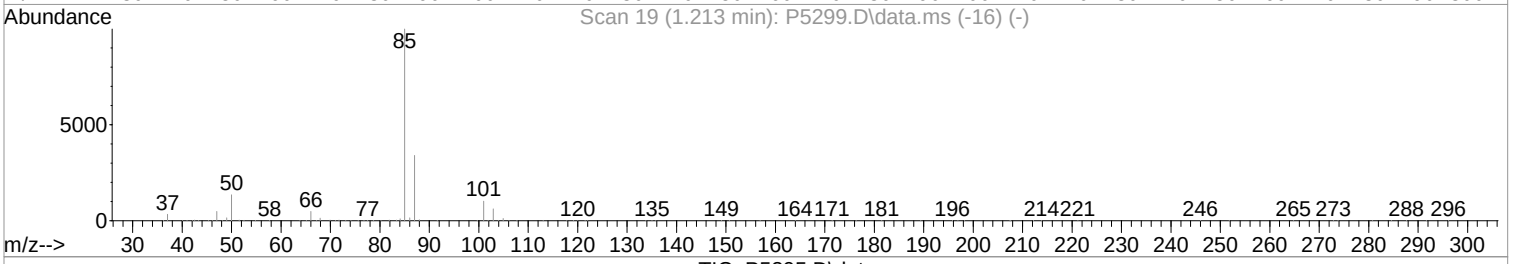
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 0.90 ppb

response 7378

Ion	Exp%	Act%
85.00	100	100
87.00	34.00	39.06
50.00	13.50	15.26
0.00	0.00	0.00

Manual Integration:

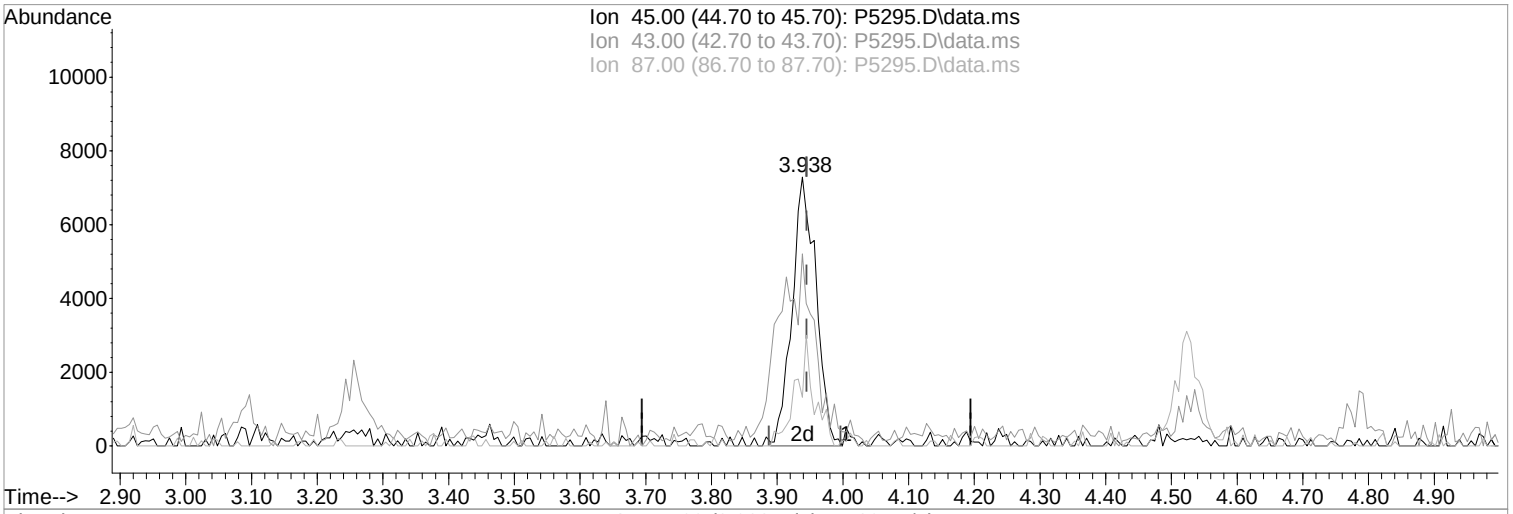
Before

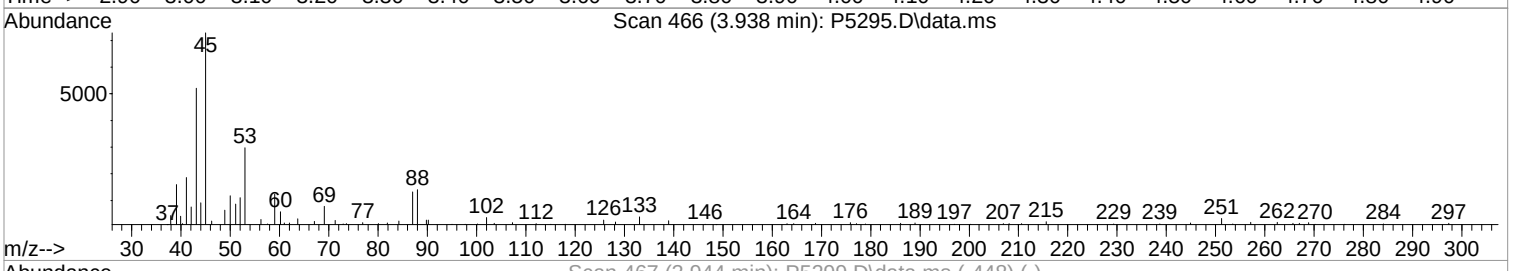
09/27/16

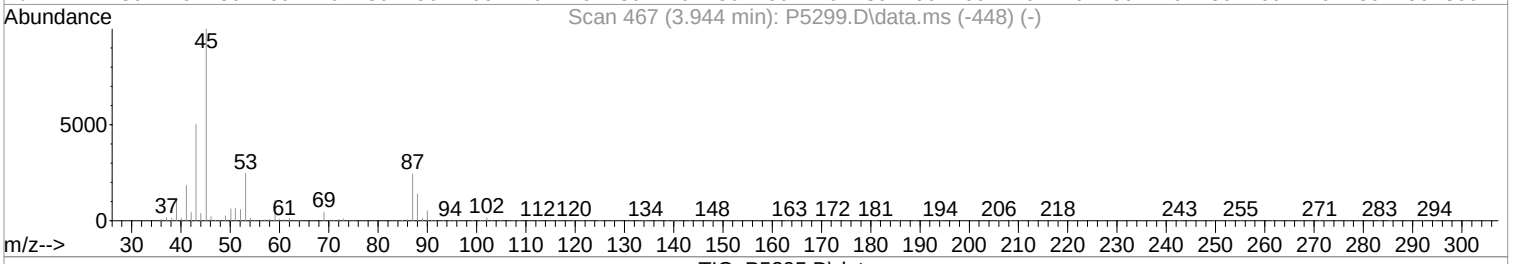
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(30) DIPE

3.938min (-0.006) 0.95 ppb m

response 18413

Ion	Exp%	Act%
45.00	100	100
43.00	50.20	71.44#
87.00	24.40	18.16
0.00	0.00	0.00

Manual Integration:

After

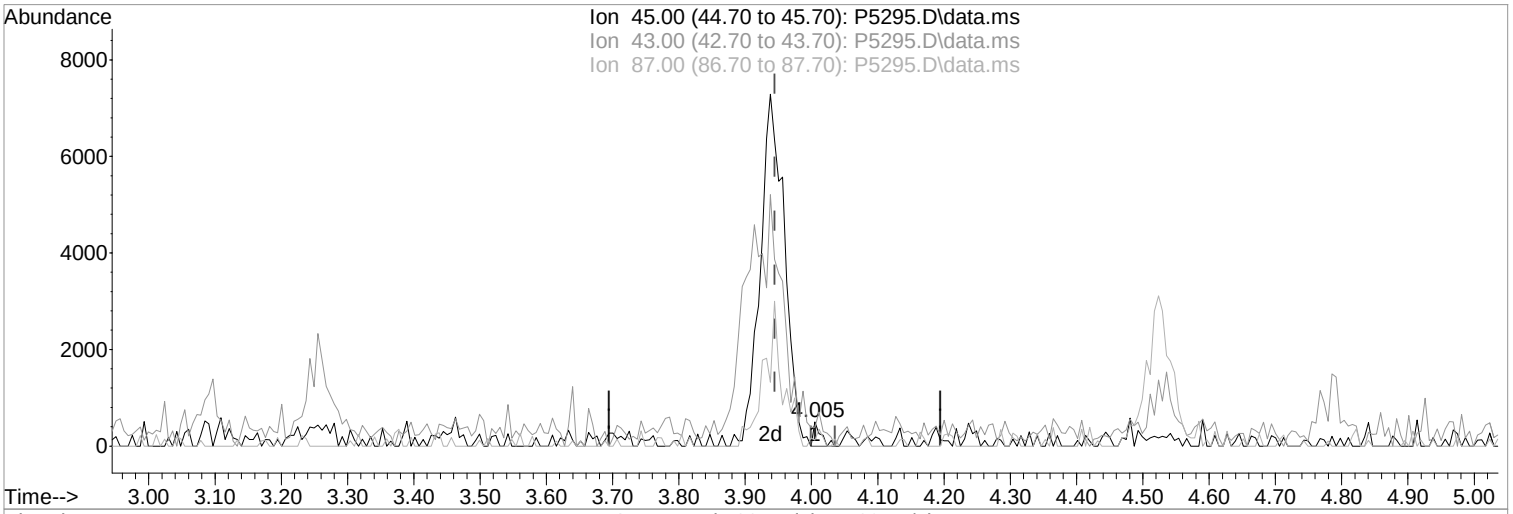
Peak not found.

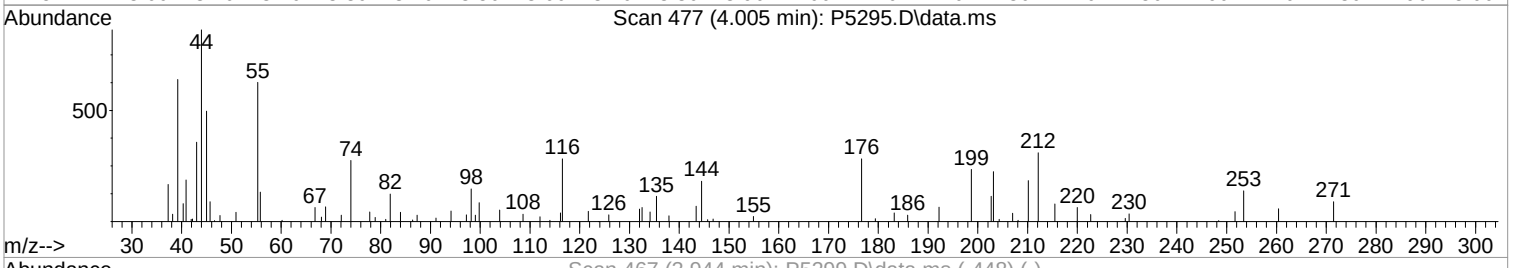
09/27/16

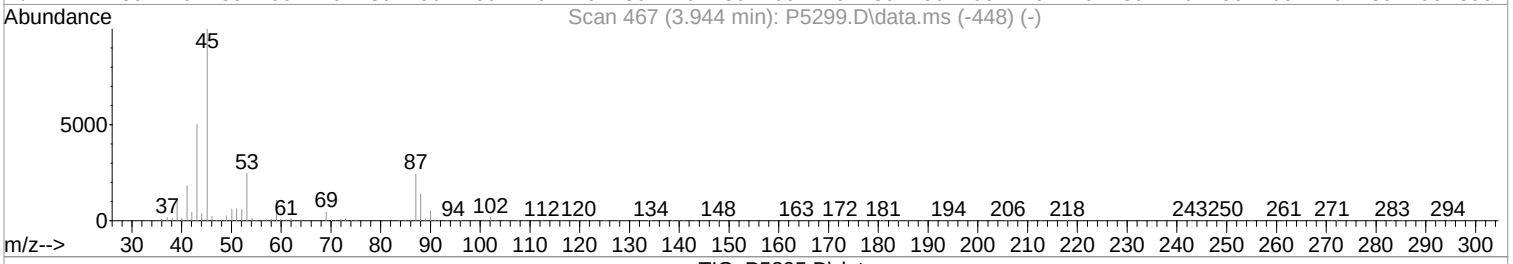
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(30) DIPE

4.005min (+0.061) 0.02 ppb

response 399

Ion	Exp%	Act%
45.00	100	100
43.00	50.20	57.55
87.00	24.40	18.39
0.00	0.00	0.00

Manual Integration:

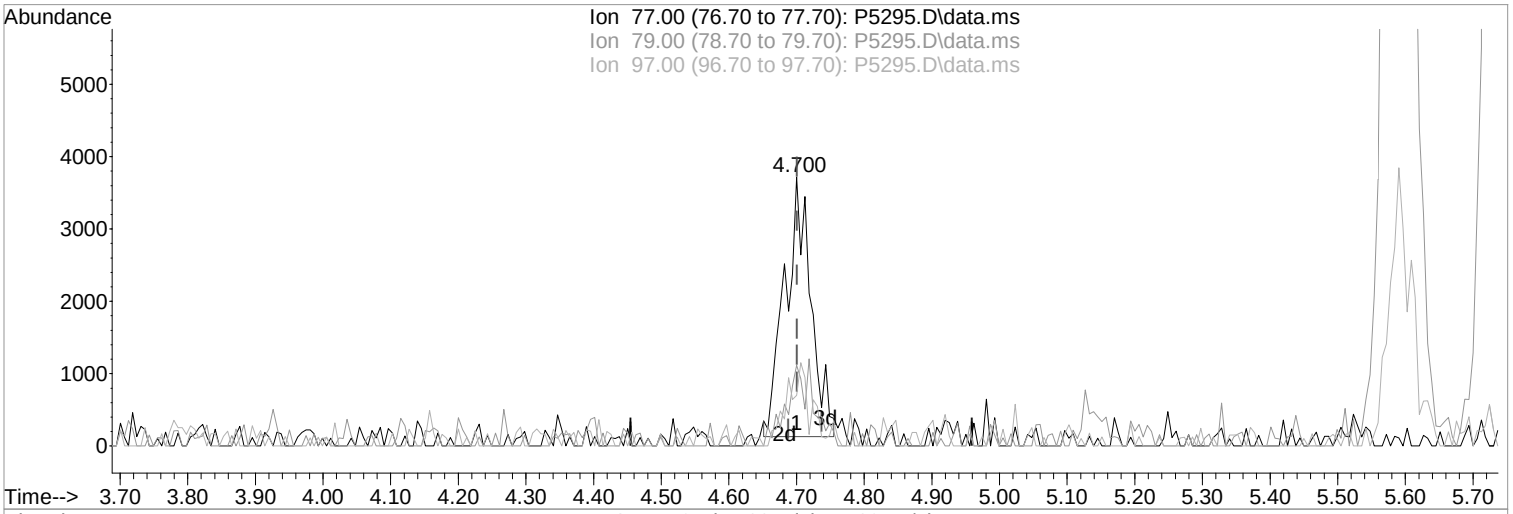
Before

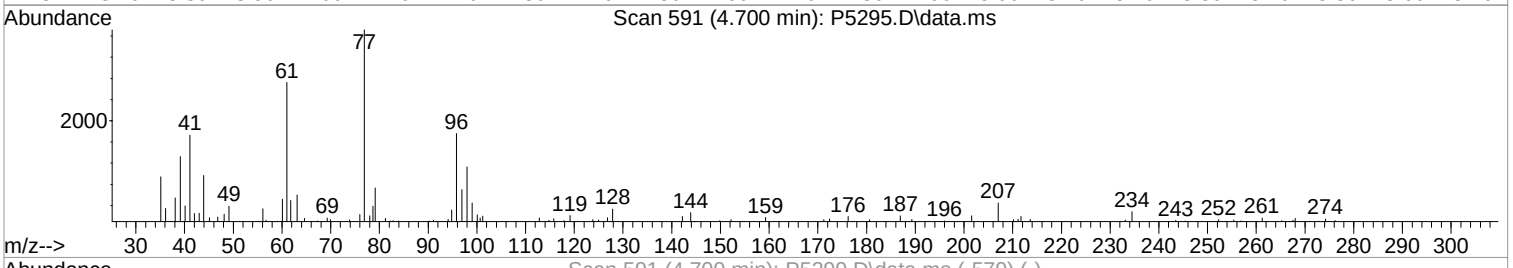
09/27/16

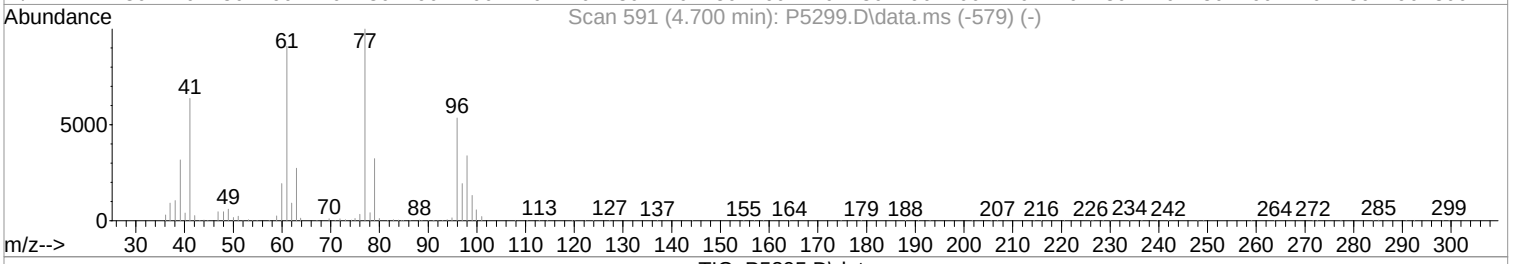
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(33) 2,2-Dichloropropane

4.700min (-0.000) 1.07 ppb m

response 9579

Ion	Exp%	Act%
77.00	100	100
79.00	32.40	19.61
97.00	19.30	18.80
0.00	0.00	0.00

Manual Integration:

After

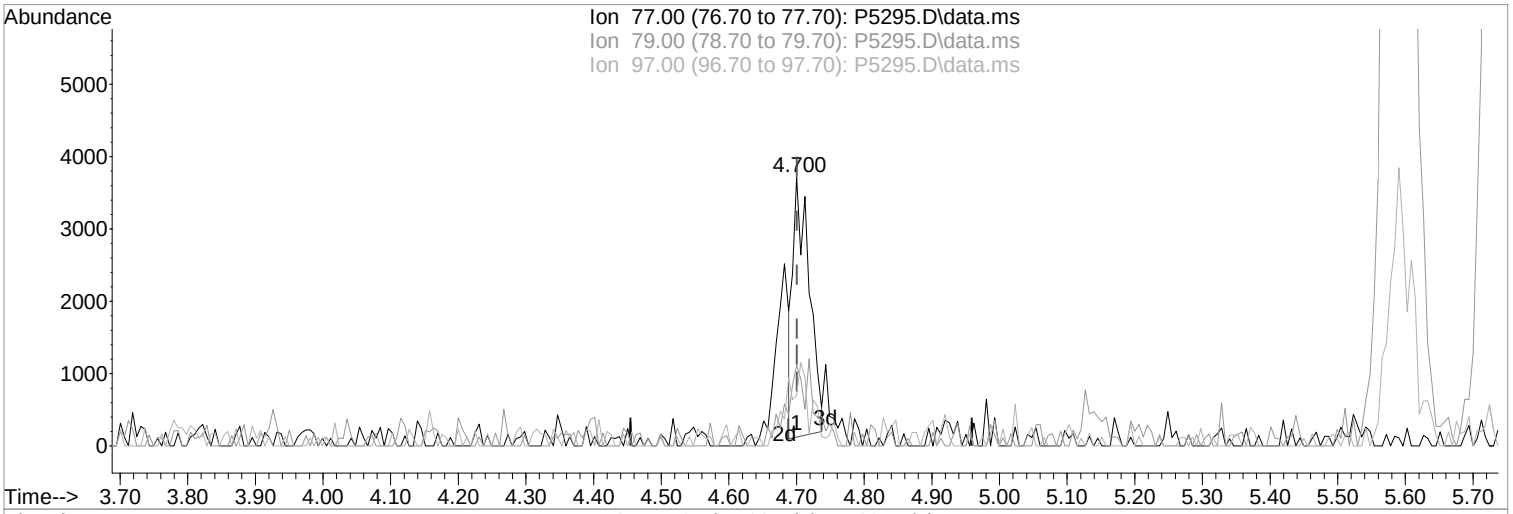
Split Peak

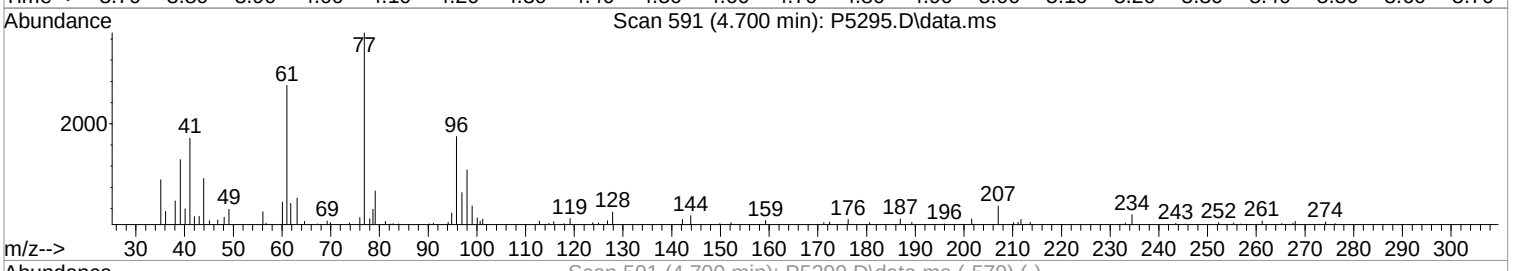
09/27/16

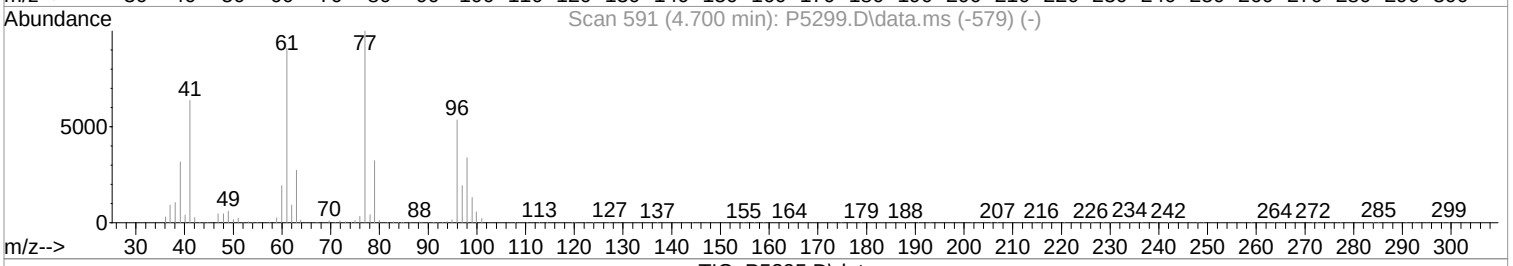
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(33) 2,2-Dichloropropane

4.700min (-0.000) 0.67 ppb

response 6032

Ion	Exp%	Act%
77.00	100	100
79.00	32.40	30.02
97.00	19.30	18.80
0.00	0.00	0.00

Manual Integration:

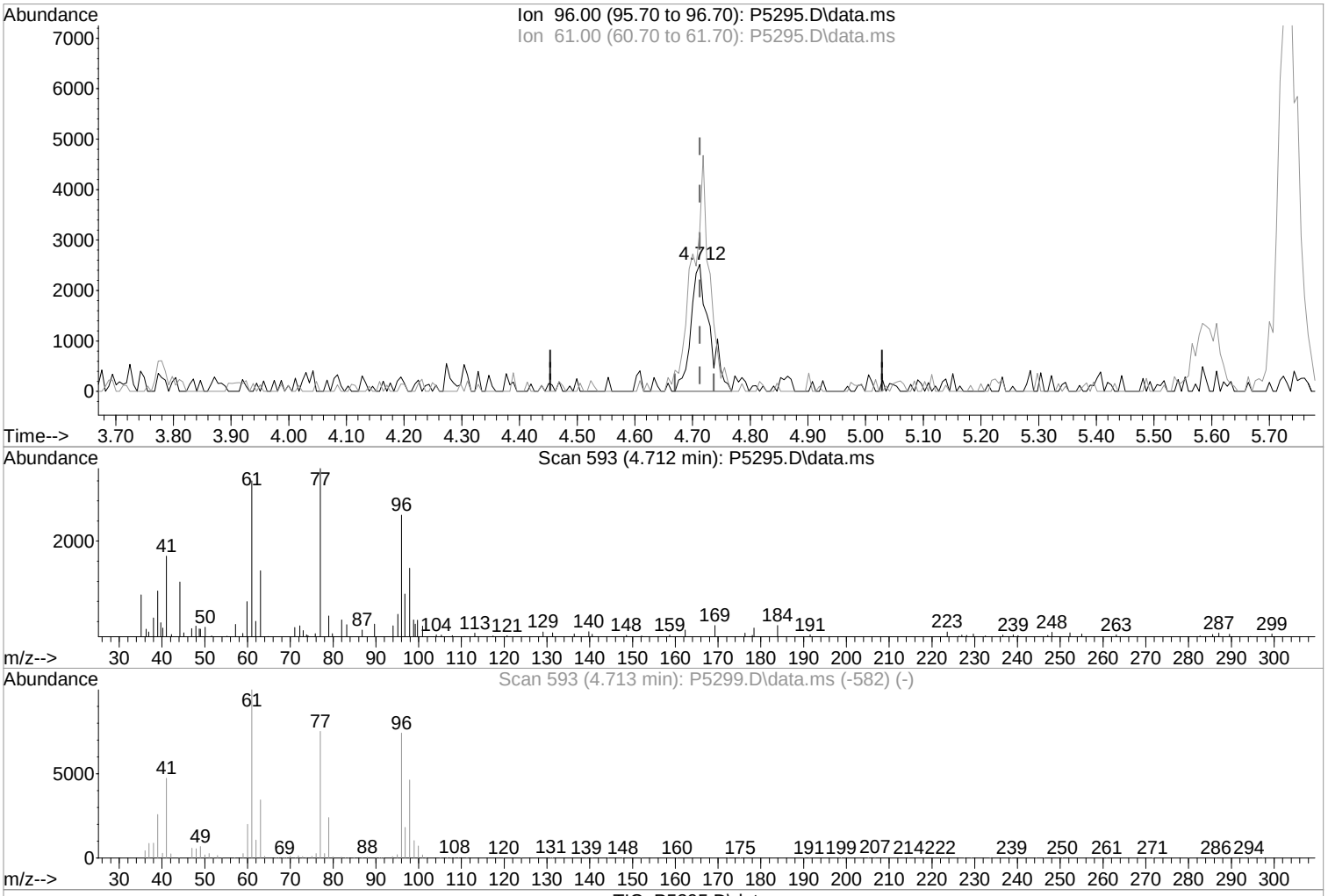
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

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

4.712min (-0.000) 0.92 ppb m

response 5573

Ion	Exp%	Act%
96.00	100	100
61.00	134.60	126.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

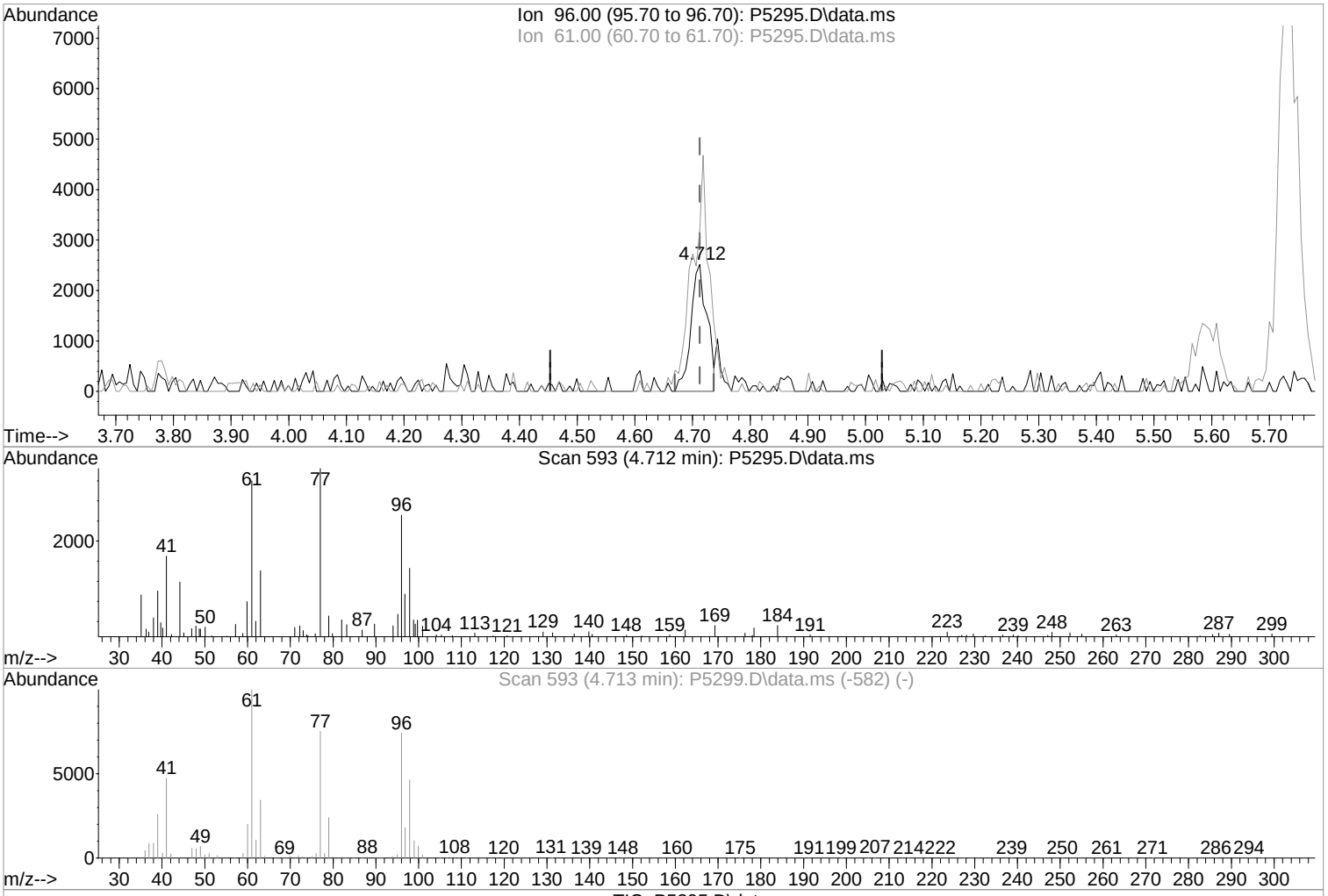
Split Peak

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

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

4.712min (-0.000) 0.81 ppb

response 4908

Ion	Exp%	Act%
96.00	100	100
61.00	134.60	126.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

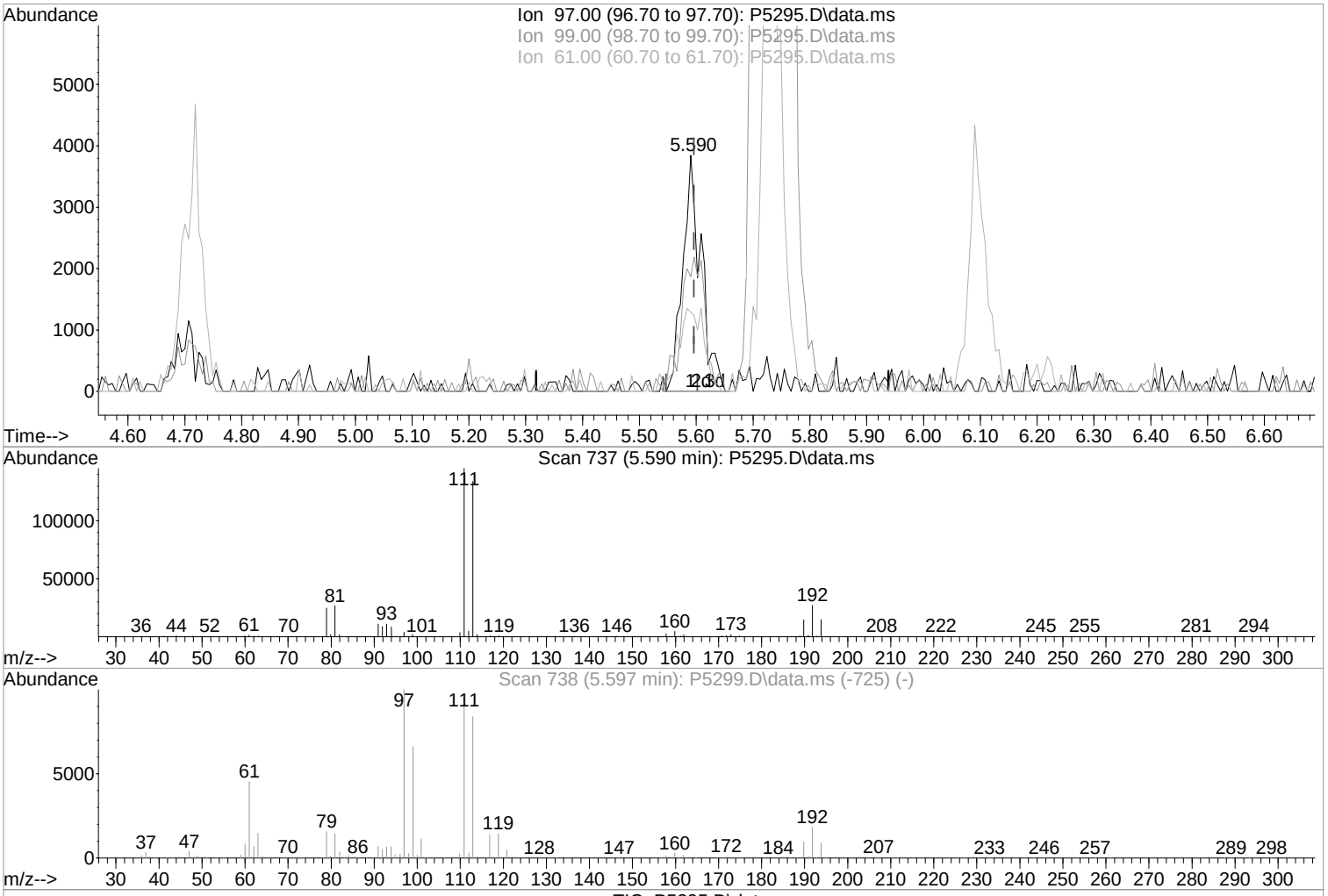
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

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

5.590min (-0.006) 0.98 ppb m

response 8669

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	48.53
61.00	45.30	33.63
0.00	0.00	0.00

Manual Integration:

After

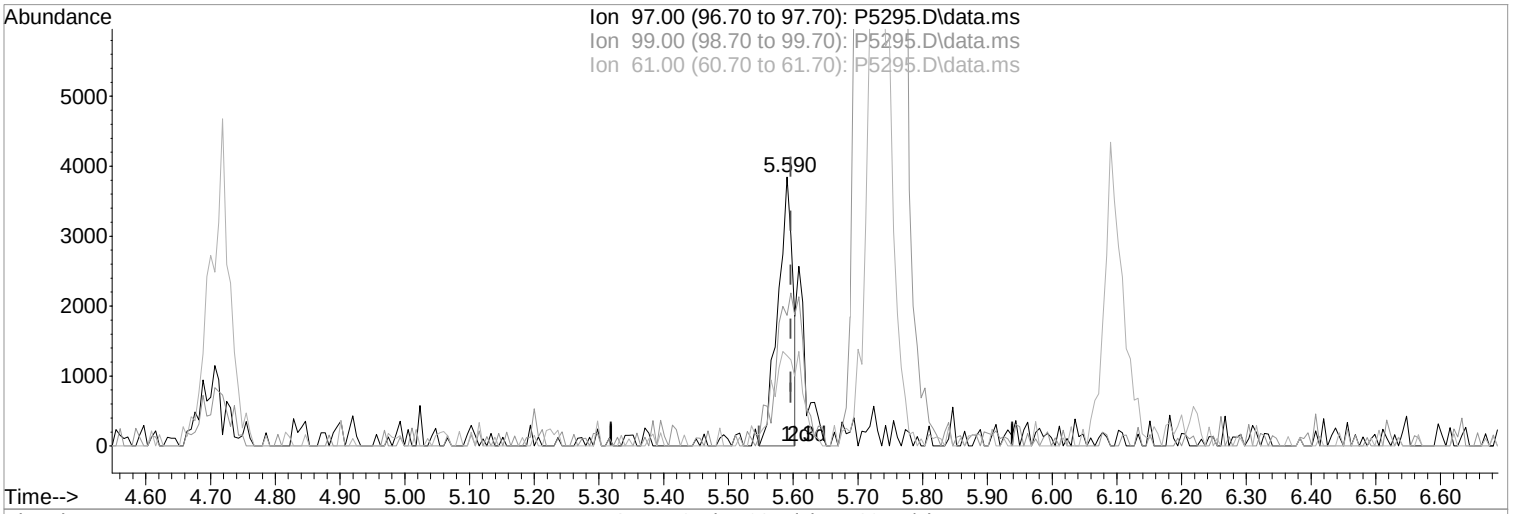
Split Peak

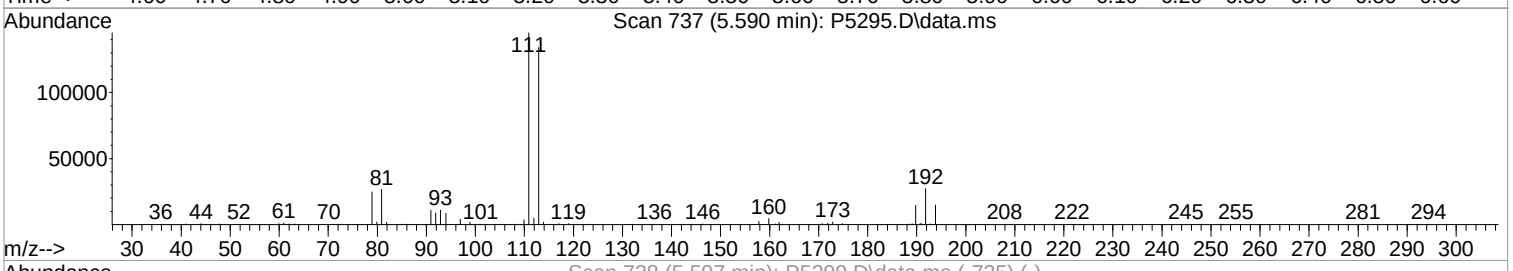
09/27/16

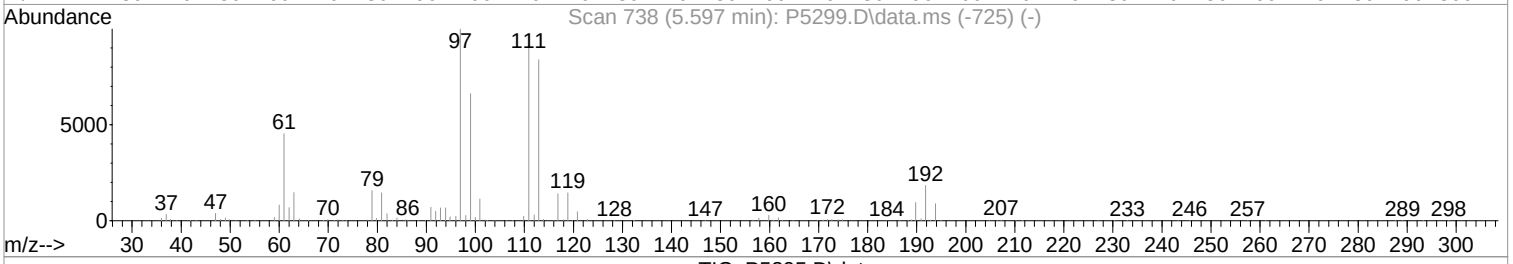
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

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

5.590min (-0.006) 0.70 ppb

response 6161

Ion	Exp%	Act%
97.00	100	100
99.00	66.20	48.53
61.00	45.30	33.63
0.00	0.00	0.00

Manual Integration:

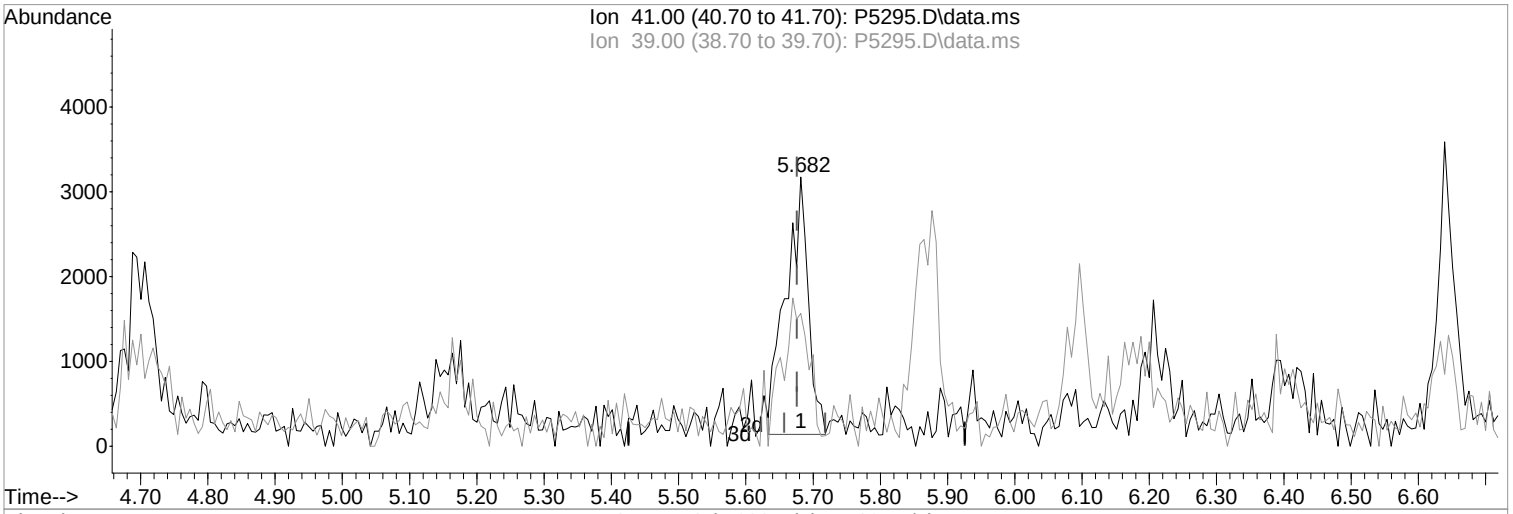
Before

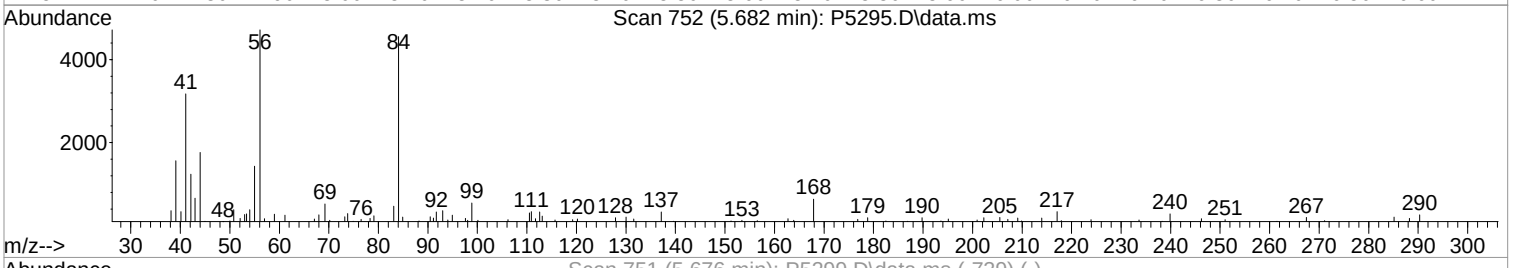
09/27/16

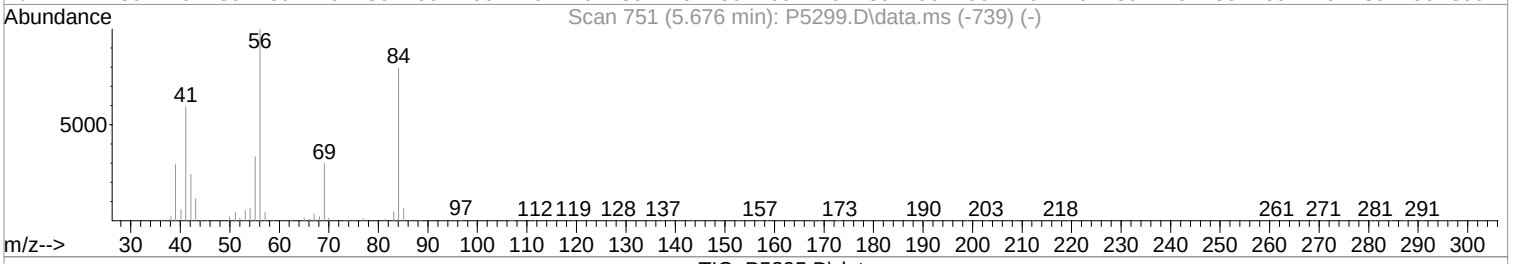
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(44) Cyclohexane (P)

5.682min (+0.006) 1.10 ppb m

response 7020

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	49.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

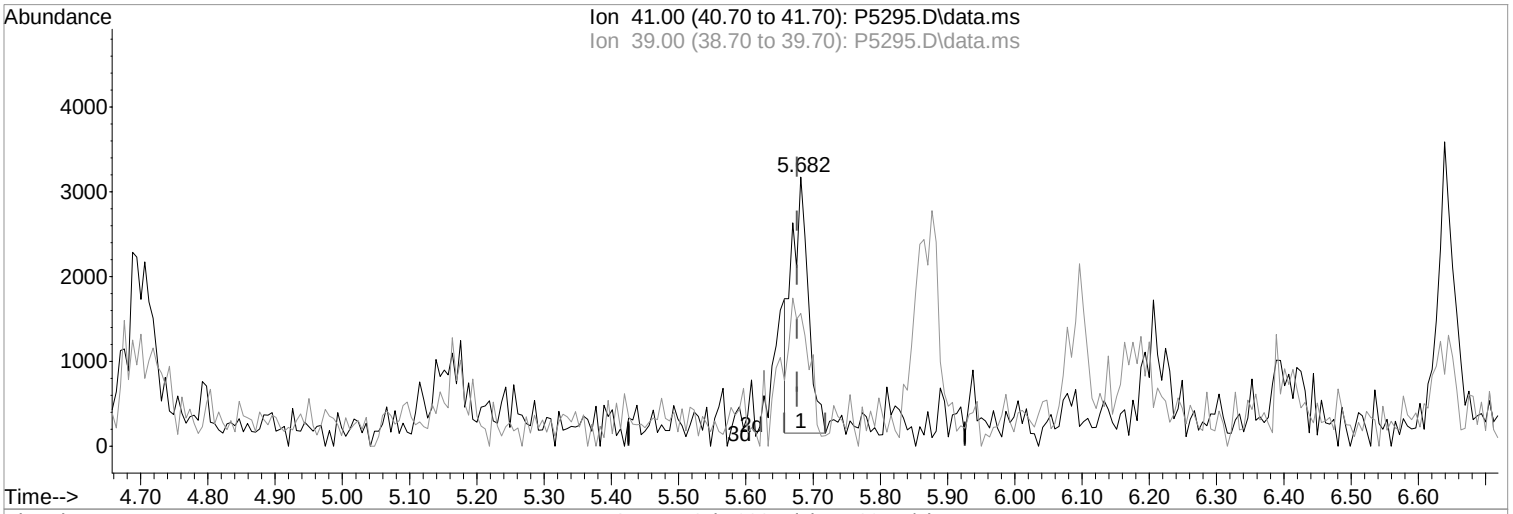
Split Peak

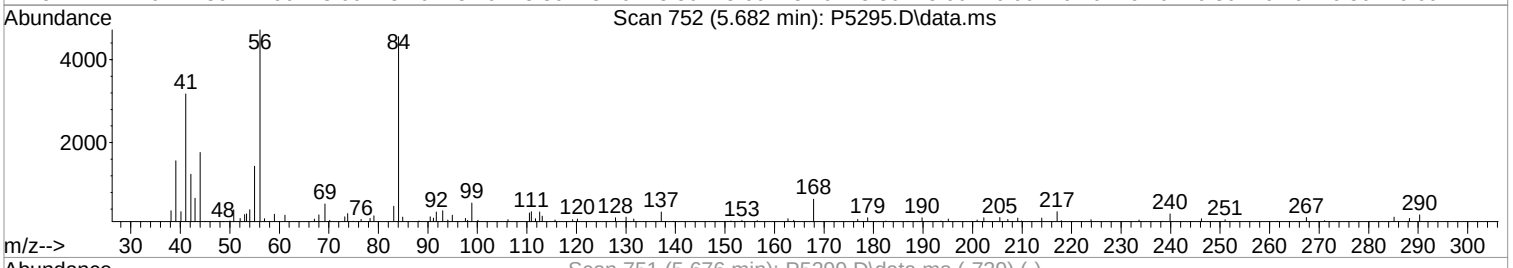
09/27/16

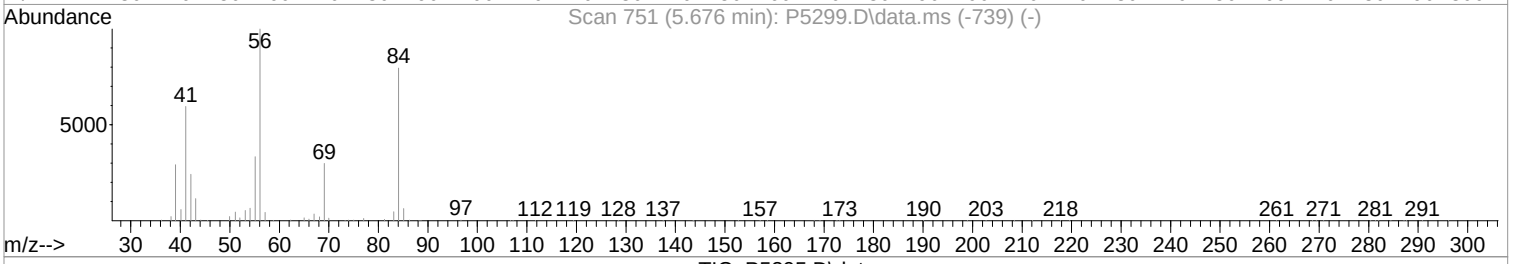
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(44) Cyclohexane (P)

5.682min (+0.006) 0.81 ppb

response 5163

Ion	Exp%	Act%
41.00	100	100
39.00	49.00	49.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

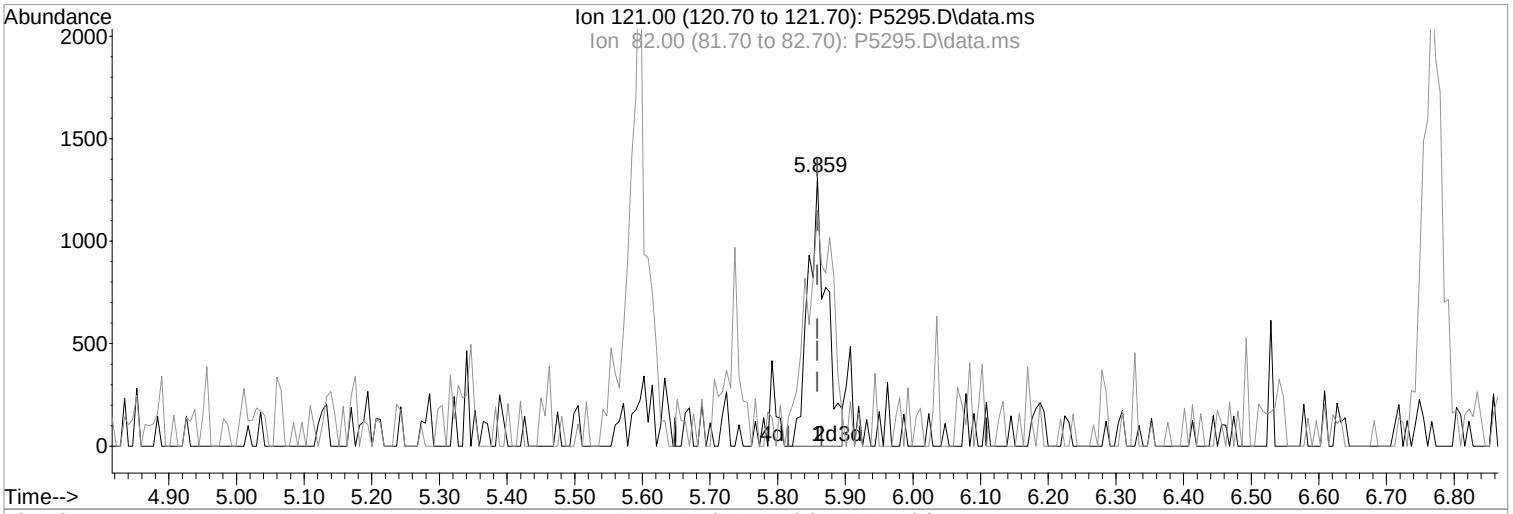
Before

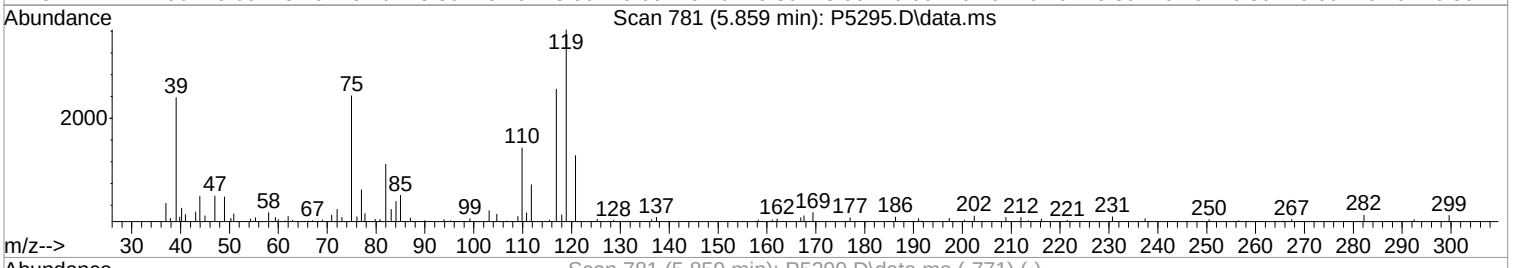
09/27/16

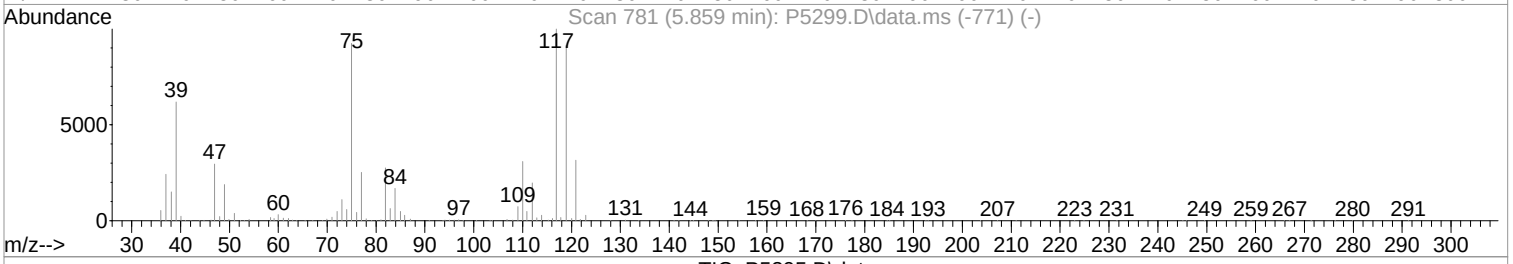
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(46) Carbontetrachloride (P)

5.859min (-0.000) 0.99 ppb m

response 2472

Ion	Exp%	Act%
121.00	100	100
82.00	87.90	87.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

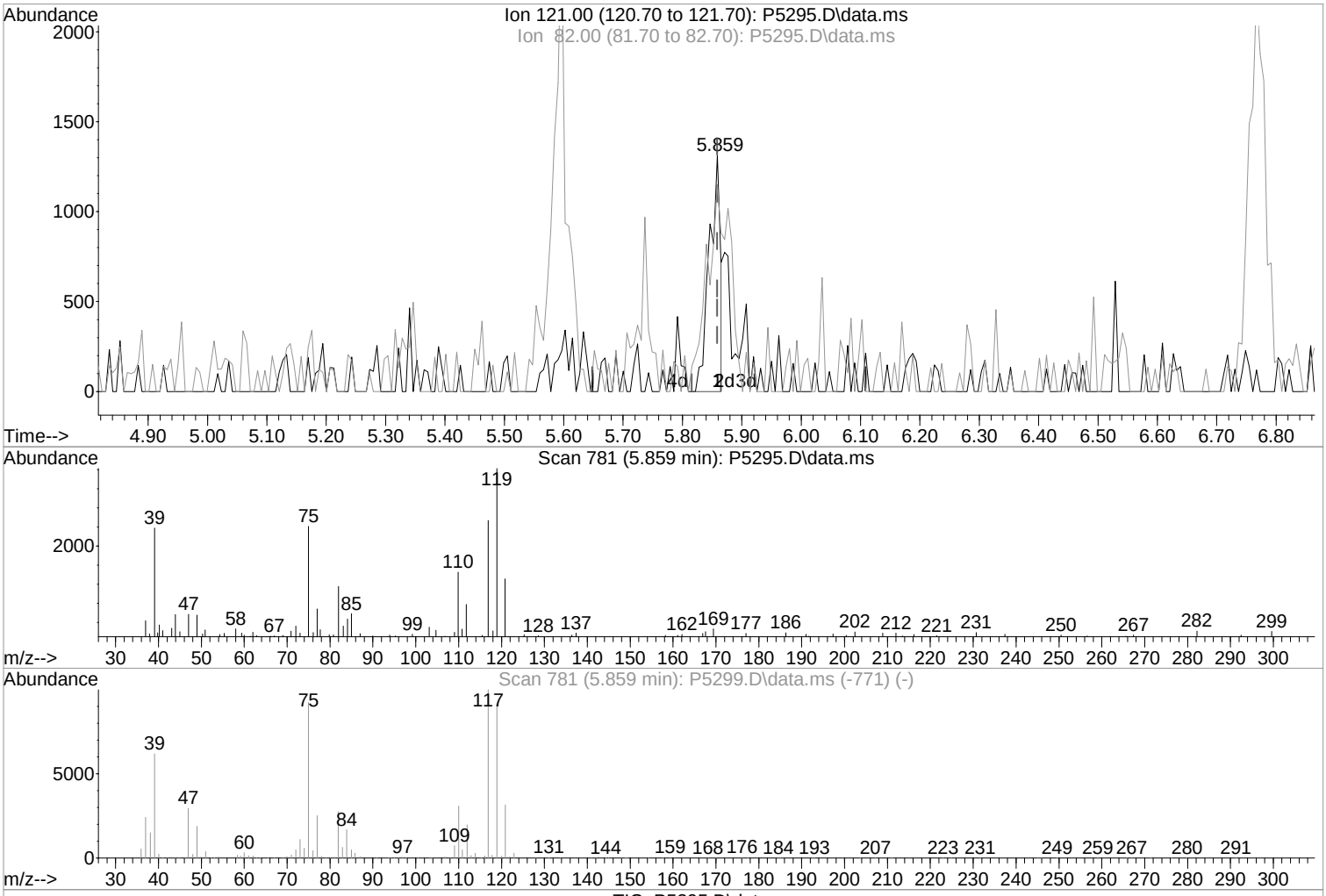
Split Peak

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(46) Carbontetrachloride (P)

5.859min (-0.000) 0.68 ppb

response 1703

Ion	Exp%	Act%
121.00	100	100
82.00	87.90	87.59
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

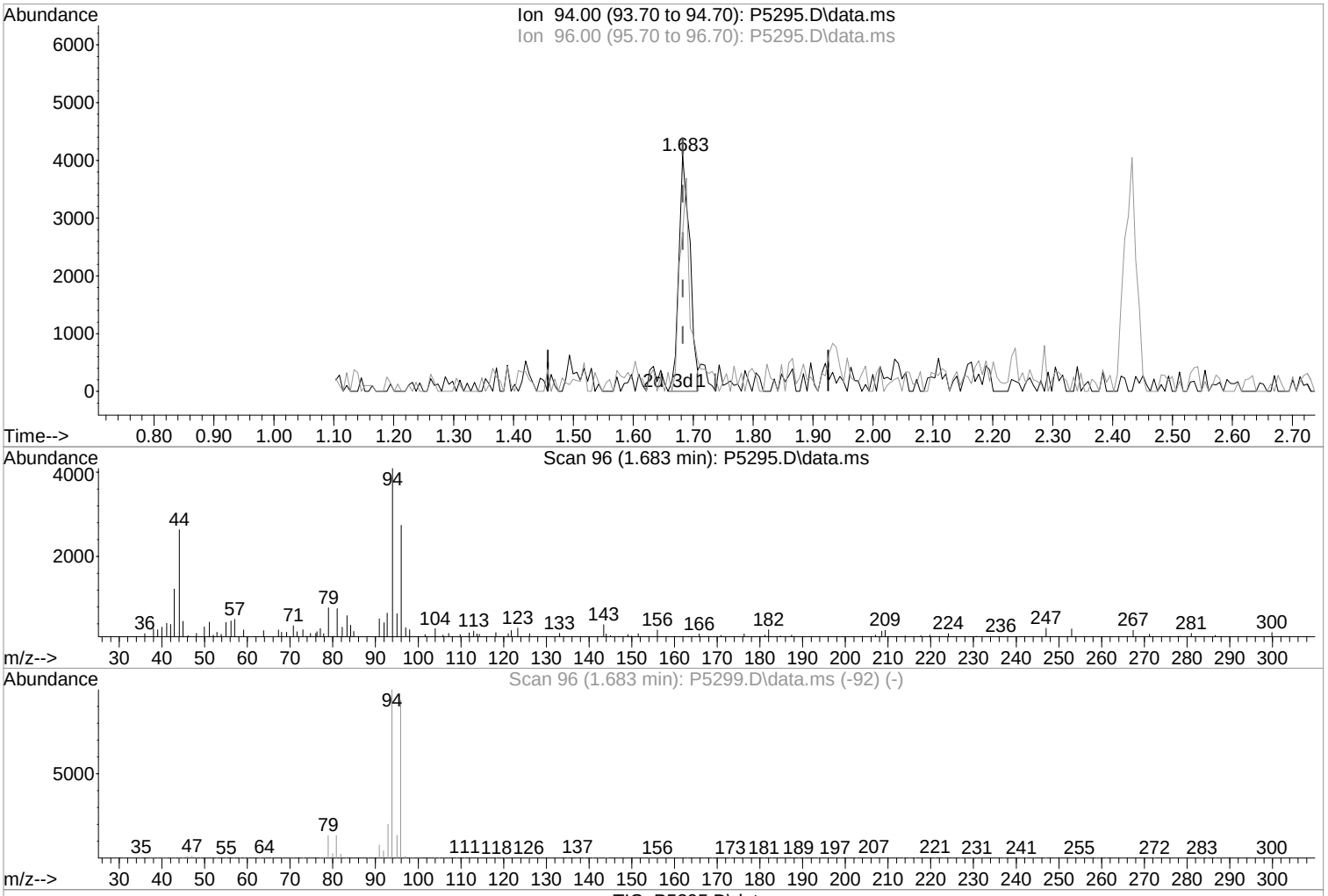
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(5) Bromomethane (P)

1.683min (-0.000) 1.36 ppb m

response 5280

Ion	Exp%	Act%
94.00	100	100
96.00	93.80	66.99#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

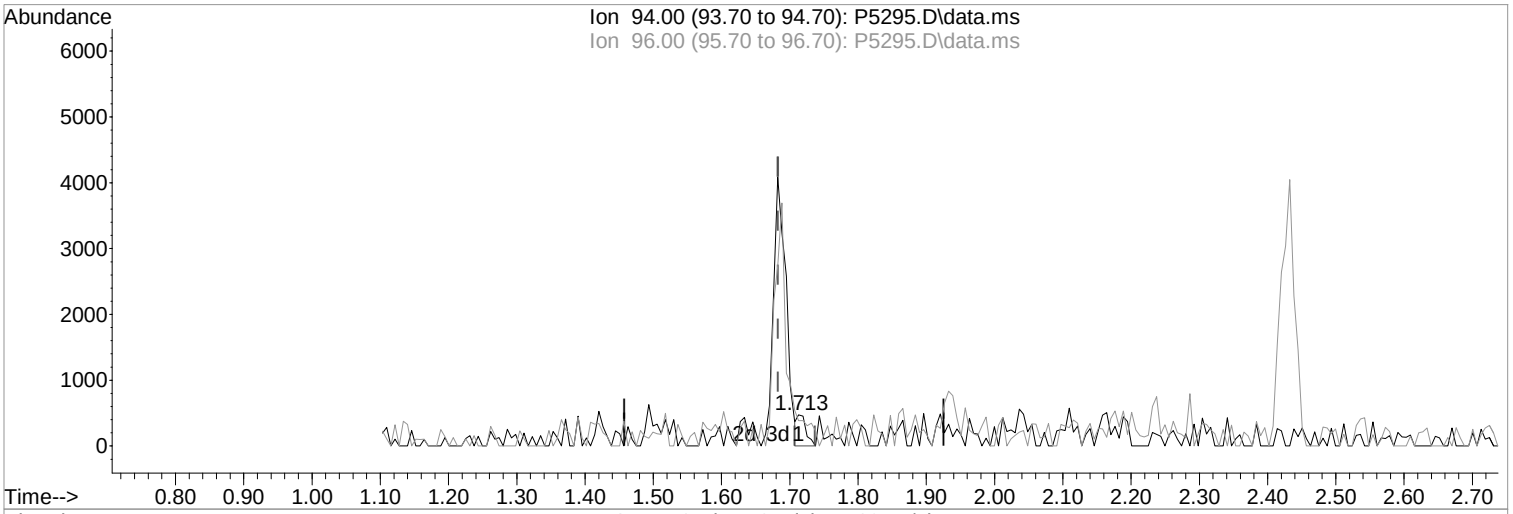
Peak not found.

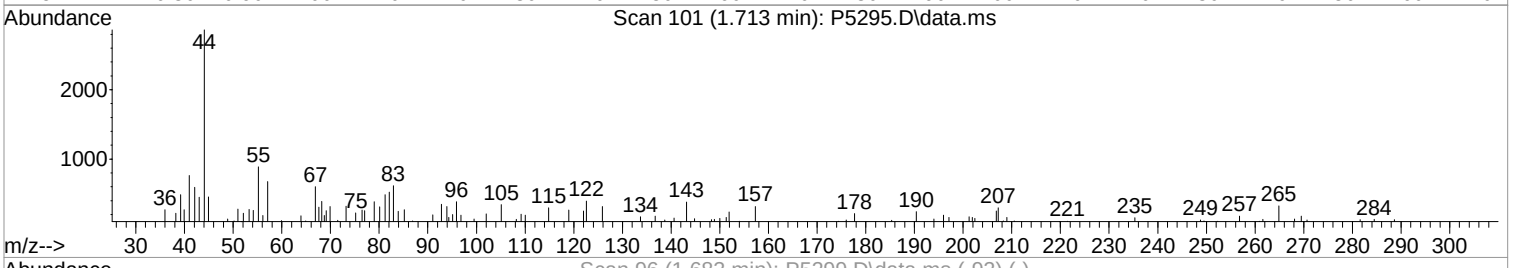
09/27/16

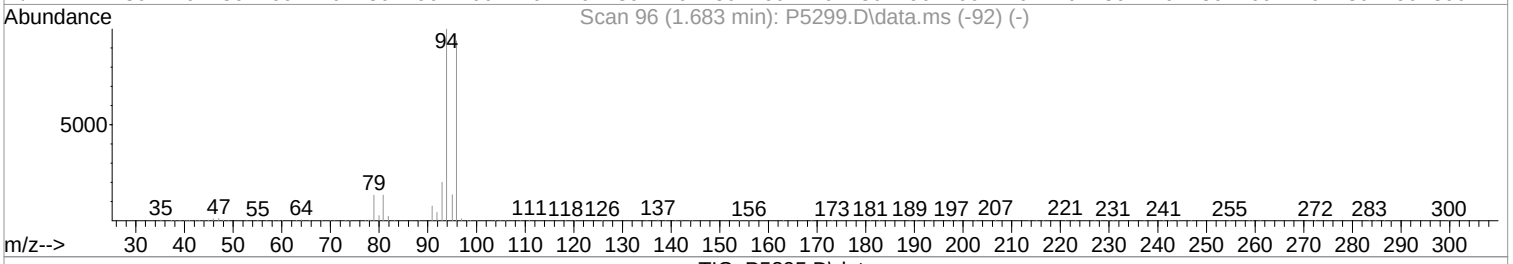
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(5) Bromomethane (P)

1.713min (+0.030) 0.11 ppb

response 429

Ion	Exp%	Act%
94.00	100	100
96.00	93.80	81.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

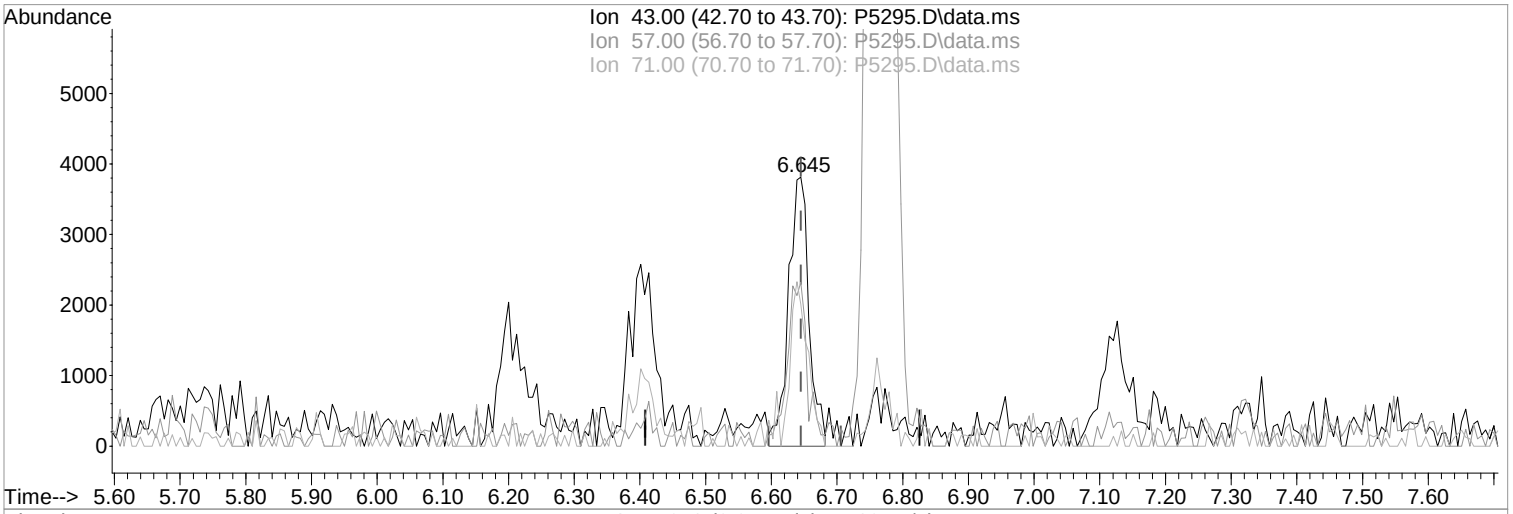
Before

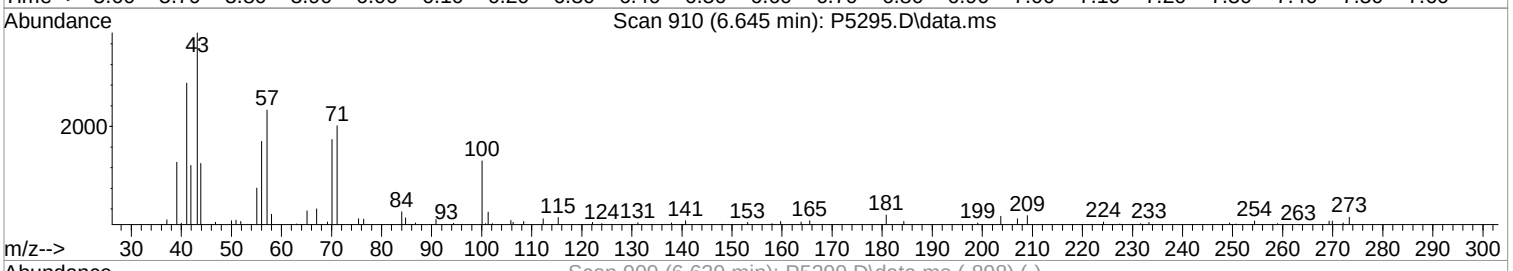
09/27/16

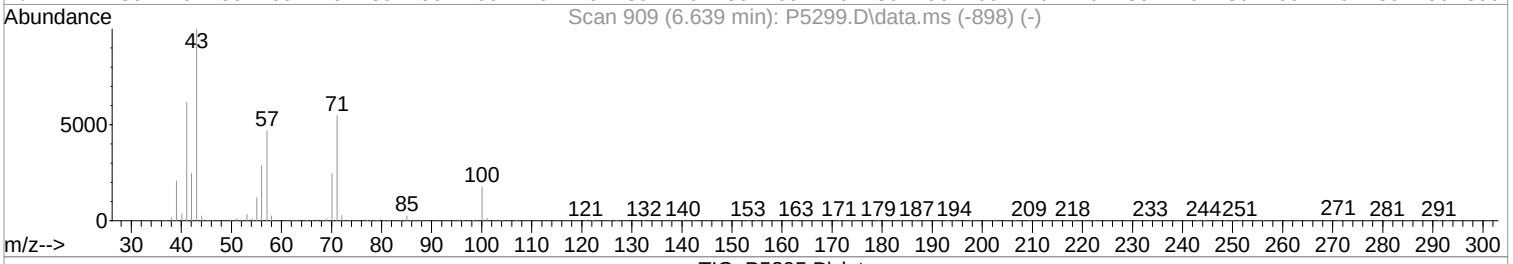
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(52) n-Heptane

6.645min (-0.000) 1.03 ppb m

response 8217

Ion	Exp%	Act%
43.00	100	100
57.00	46.80	60.80
71.00	54.80	52.75
0.00	0.00	0.00

Manual Integration:

After

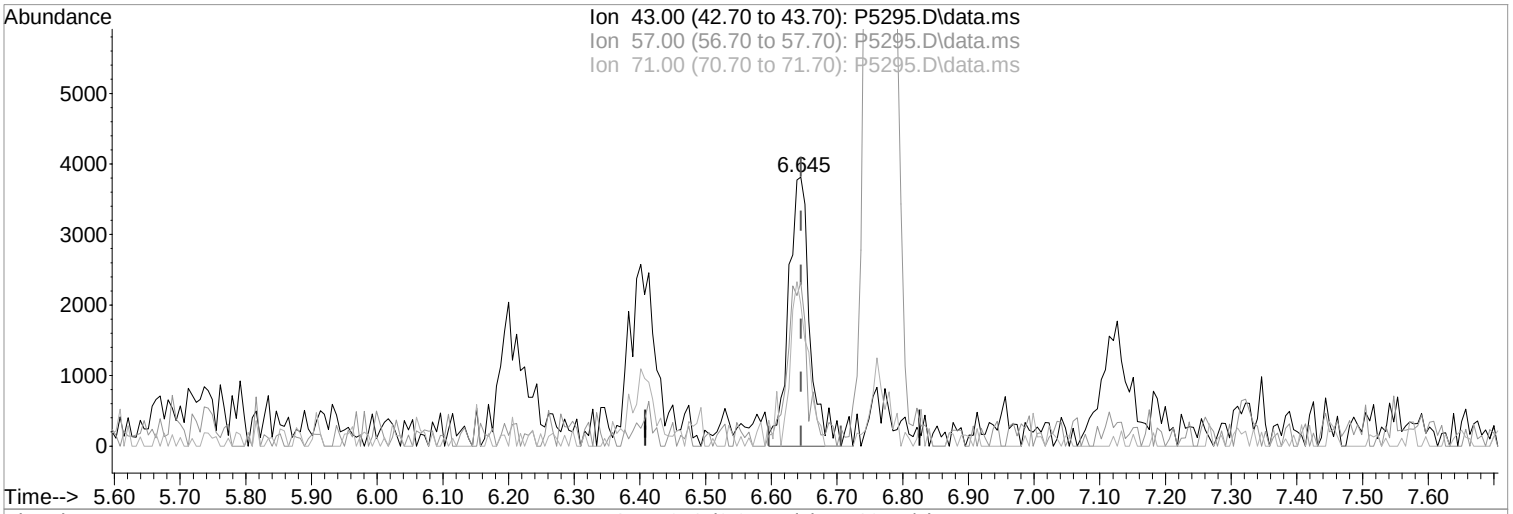
Split Peak

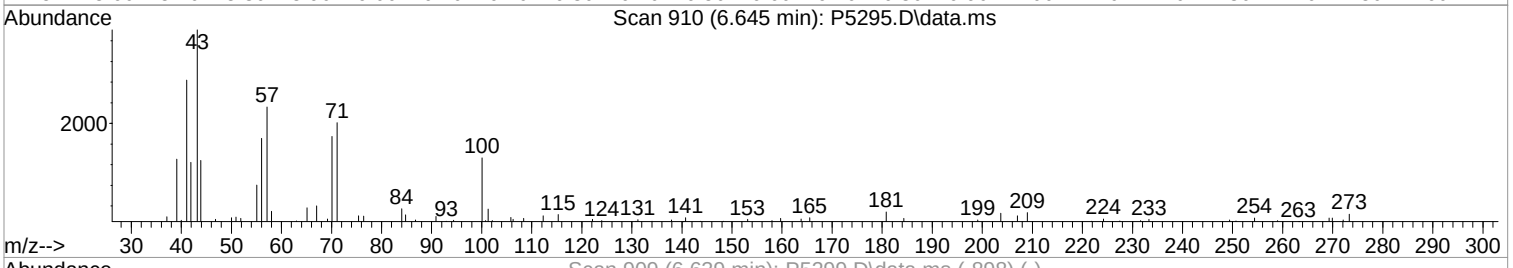
09/27/16

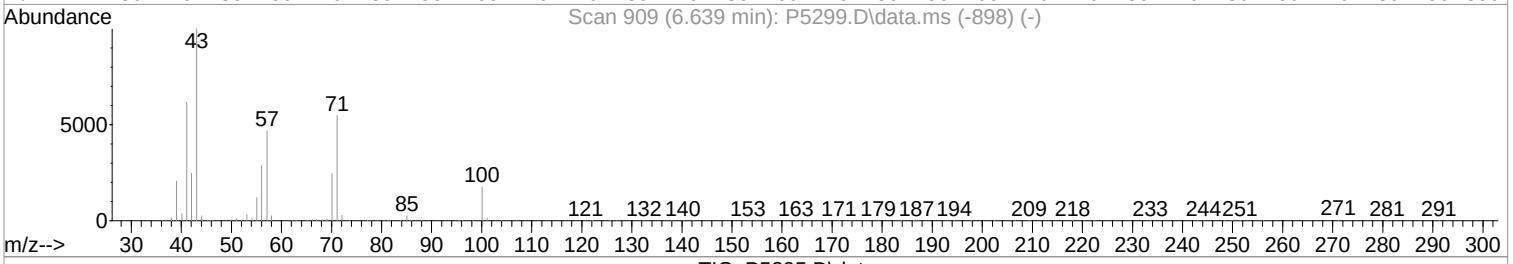
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(52) n-Heptane

6.645min (-0.000) 1.08 ppb

response 8588

Ion	Exp%	Act%
43.00	100	100
57.00	46.80	60.80
71.00	54.80	52.75
0.00	0.00	0.00

Manual Integration:

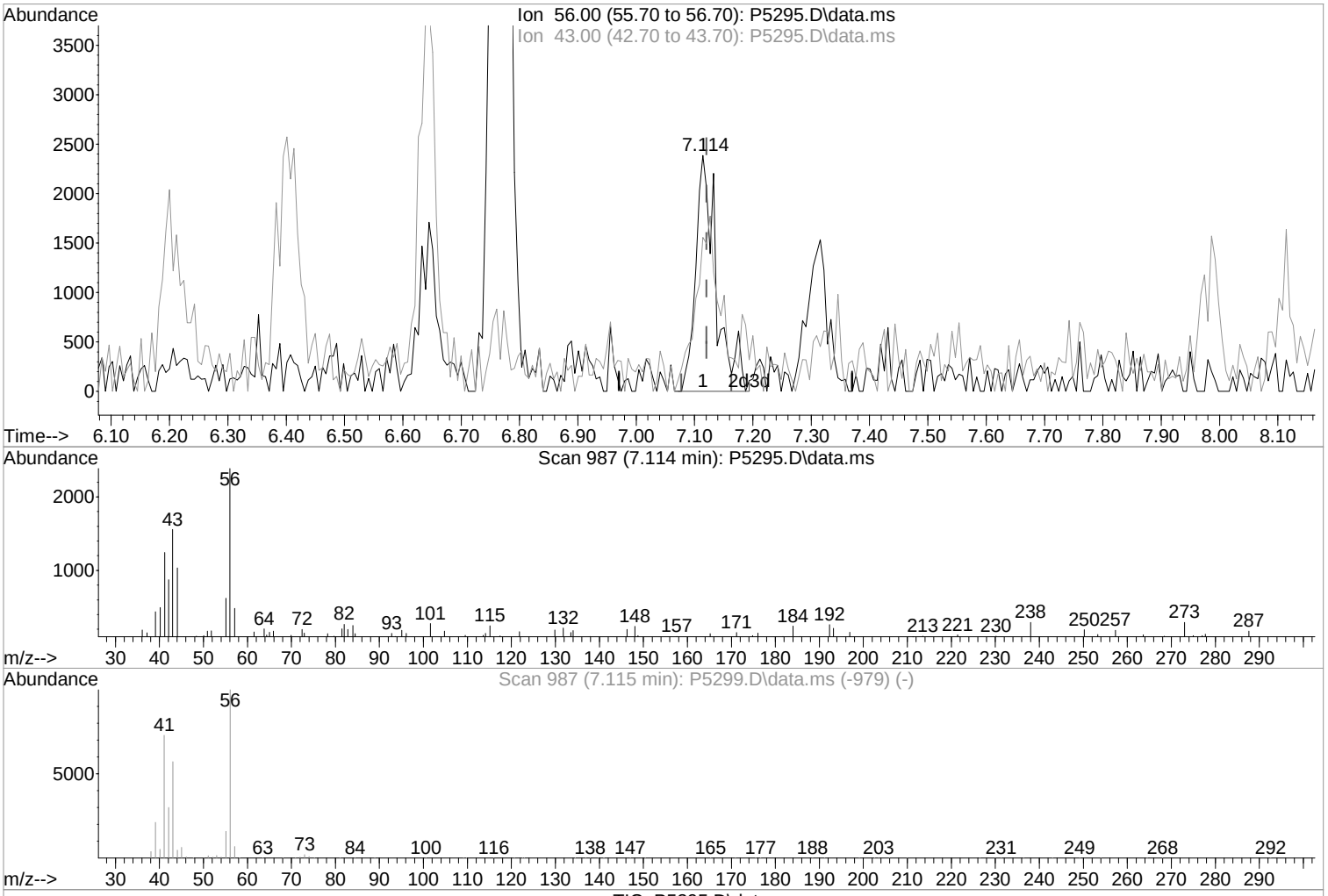
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(53) 1-Butanol

7.114min (-0.006) 51.83 ppb m

response 5883

Ion	Exp%	Act%
56.00	100	100
43.00	57.40	83.72#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

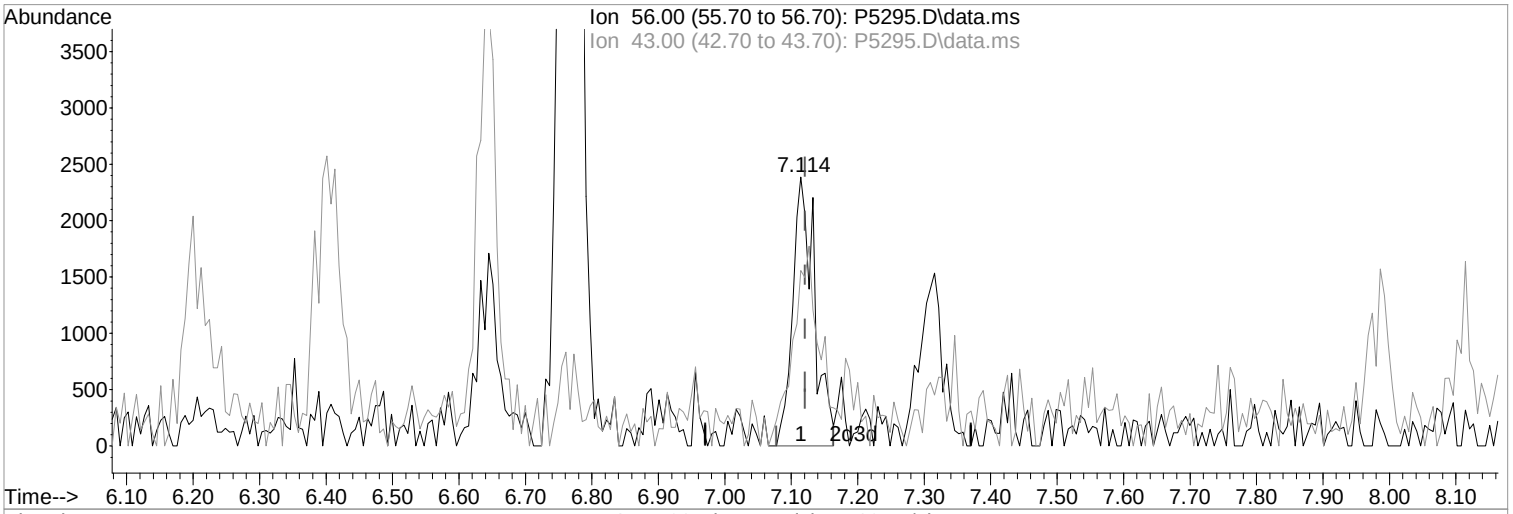
Split Peak

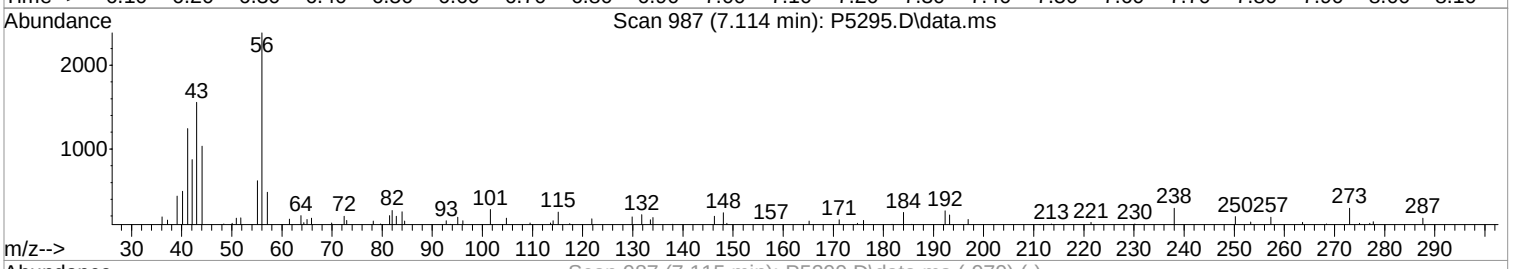
09/27/16

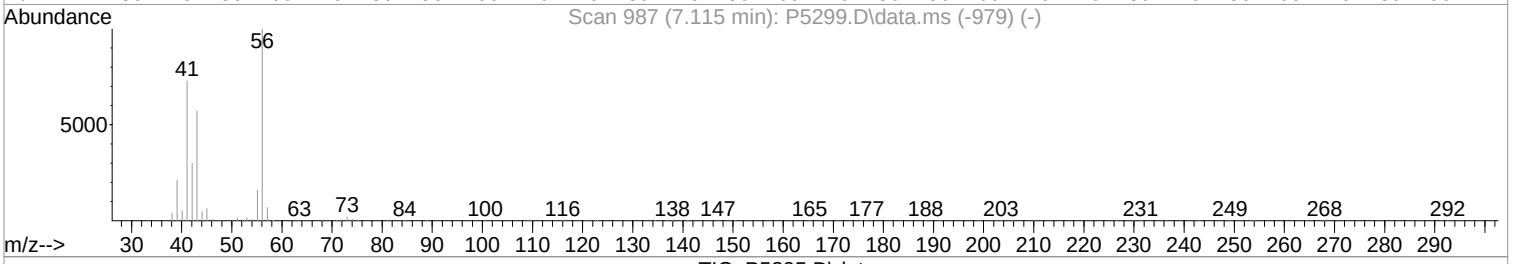
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(53) 1-Butanol

7.114min (-0.006) 47.69 ppb

response 5413

Ion	Exp%	Act%
56.00	100	100
43.00	57.40	90.98#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

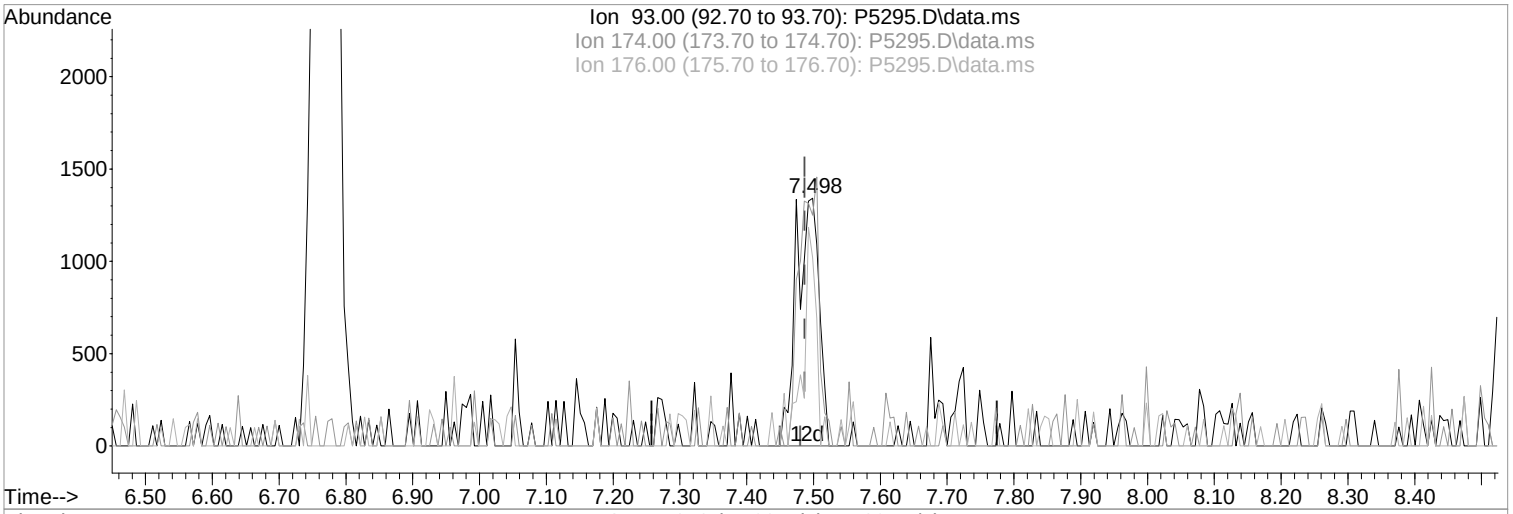
Before

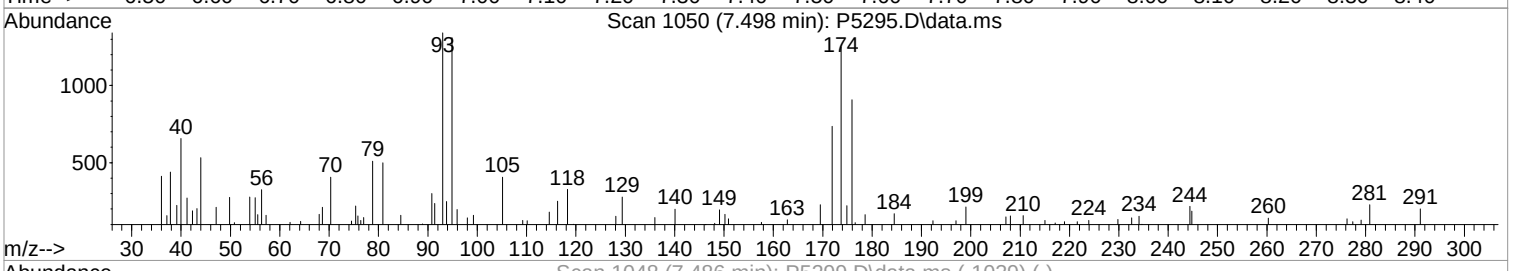
09/27/16

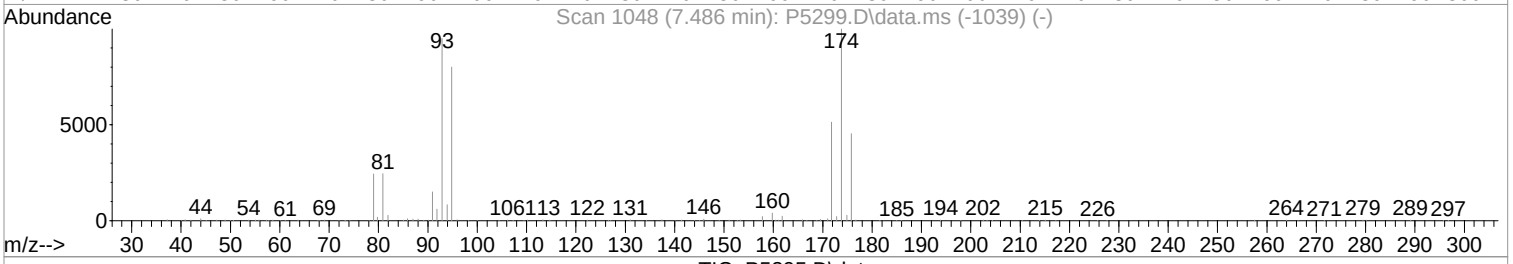
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(57) Dibromomethane

7.498min (+0.012) 1.01 ppb m

response 3164

Ion	Exp%	Act%
93.00	100	100
174.00	105.30	93.14
176.00	48.30	67.66
0.00	0.00	0.00

Manual Integration:

After

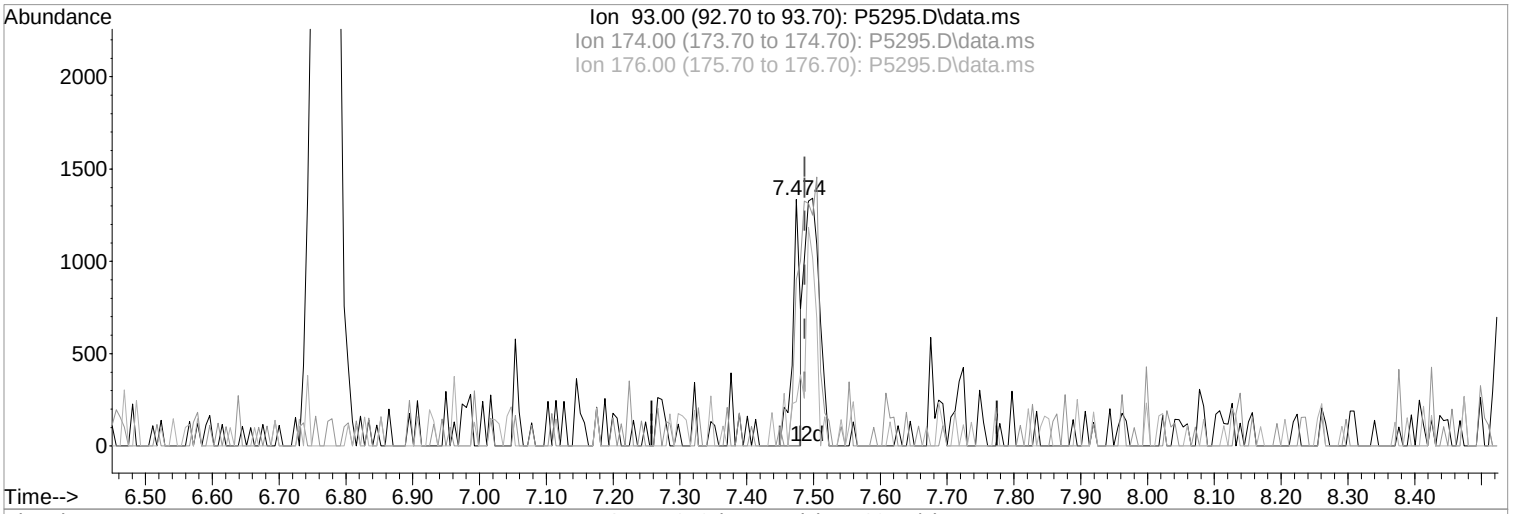
Split Peak

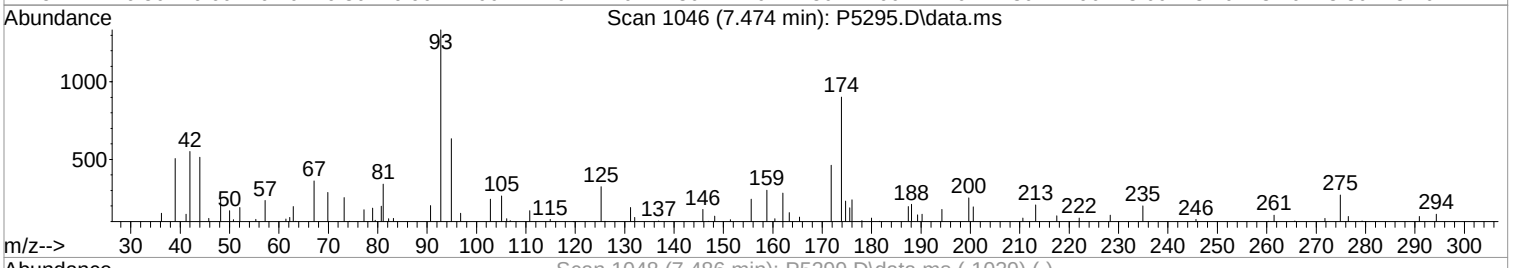
09/27/16

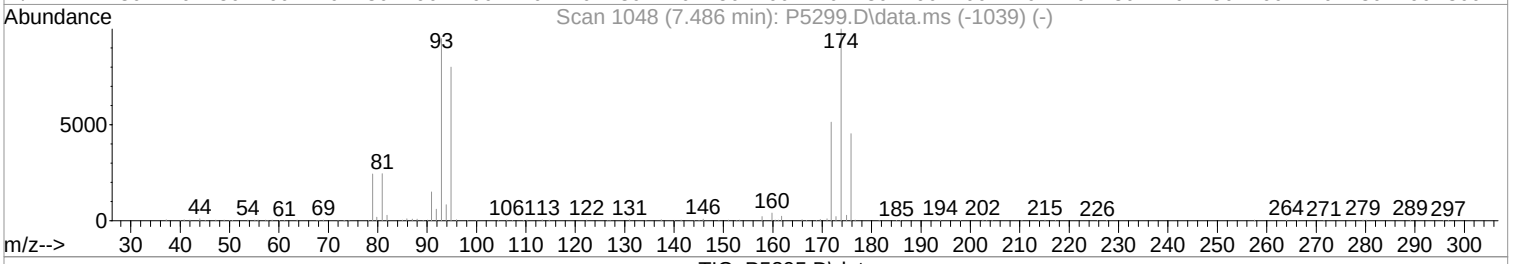
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(57) Dibromomethane

7.474min (-0.012) 0.34 ppb

response 1062

Ion	Exp%	Act%
93.00	100	100
174.00	105.30	84.87#
176.00	48.30	17.90#
0.00	0.00	0.00

Manual Integration:

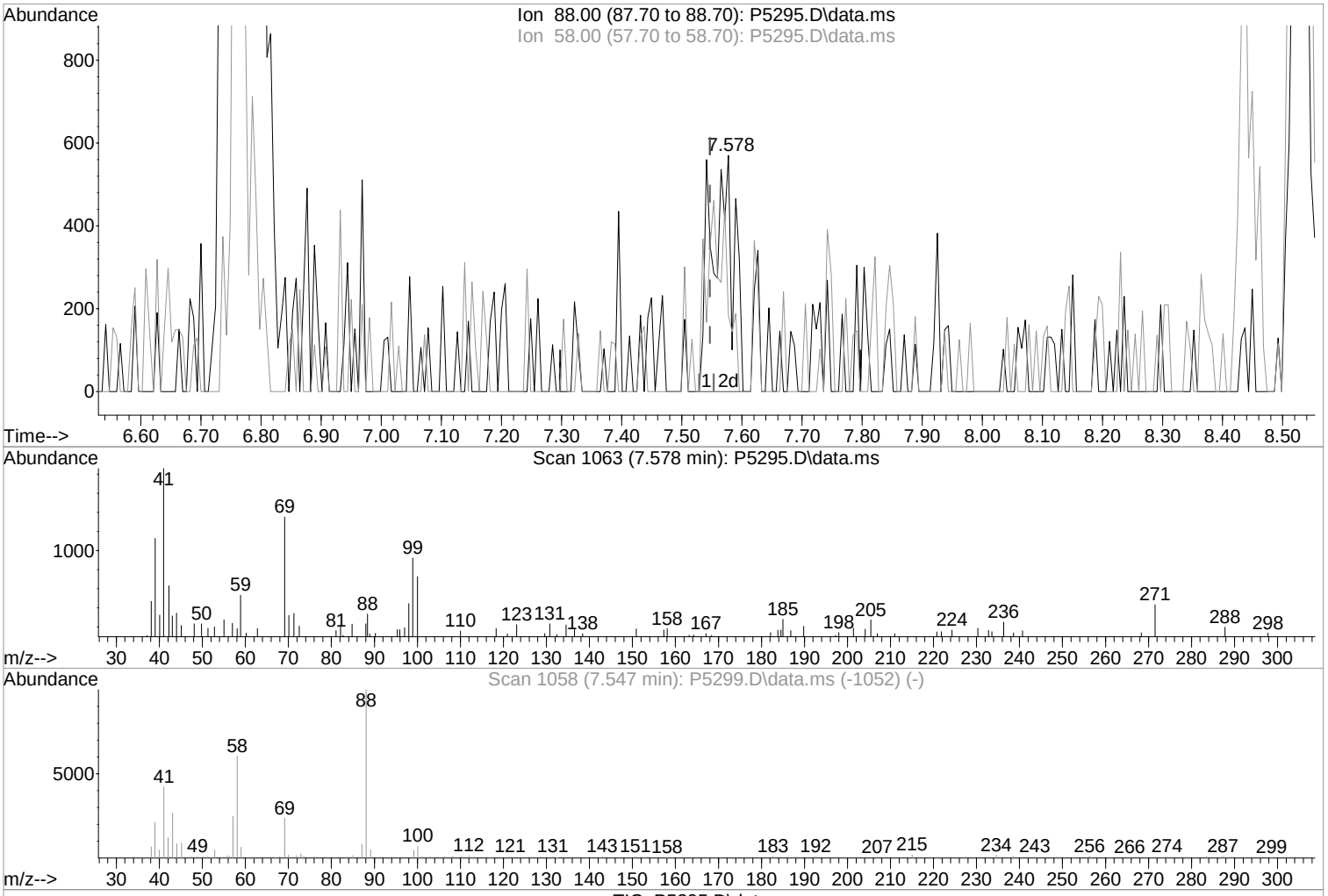
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(58) 1,4-Dioxane

7.578min (+0.030) 31.00 ppb m

response 1466

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	54.60
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

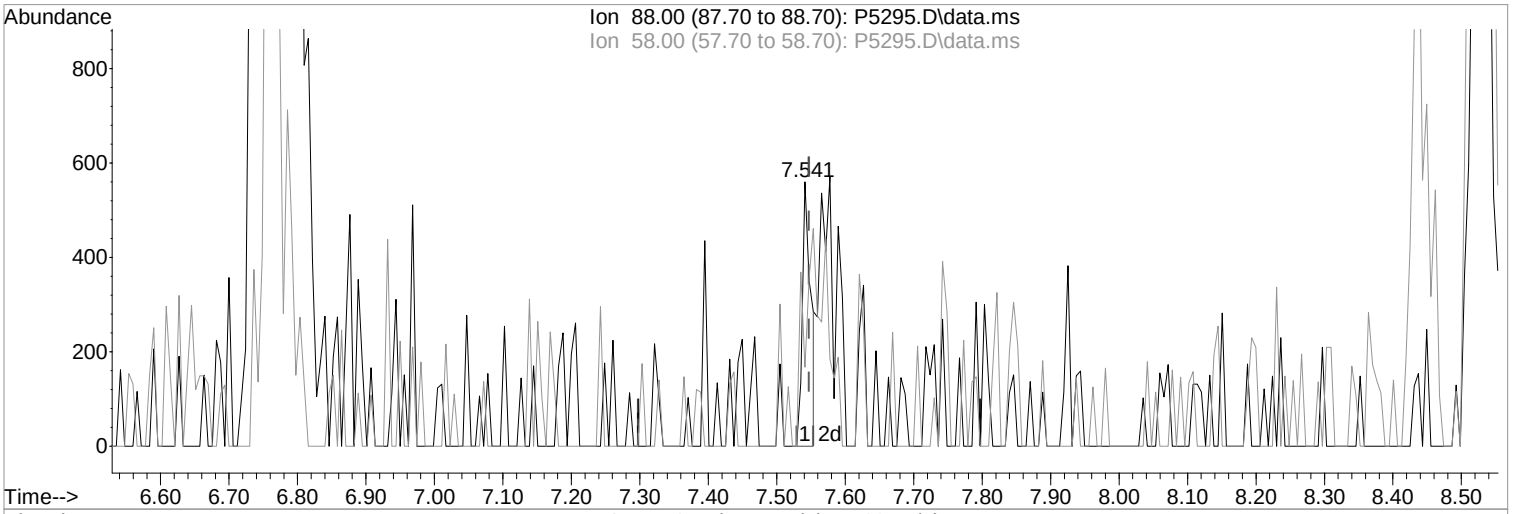
Split Peak

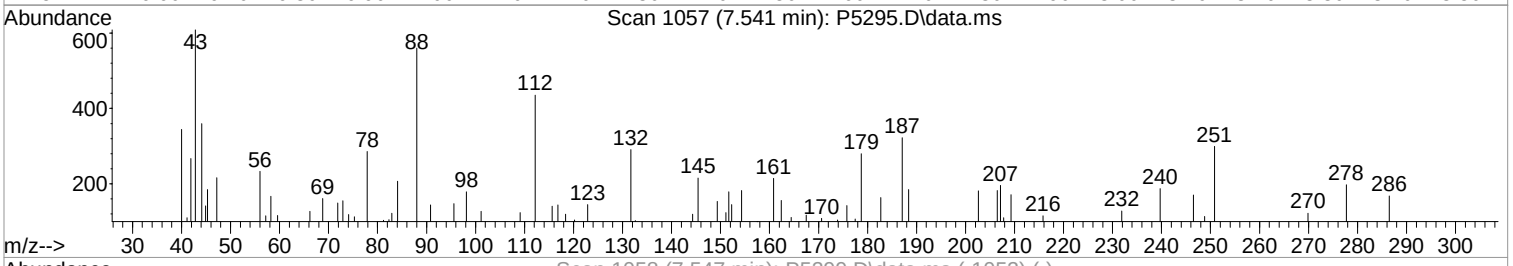
09/27/16

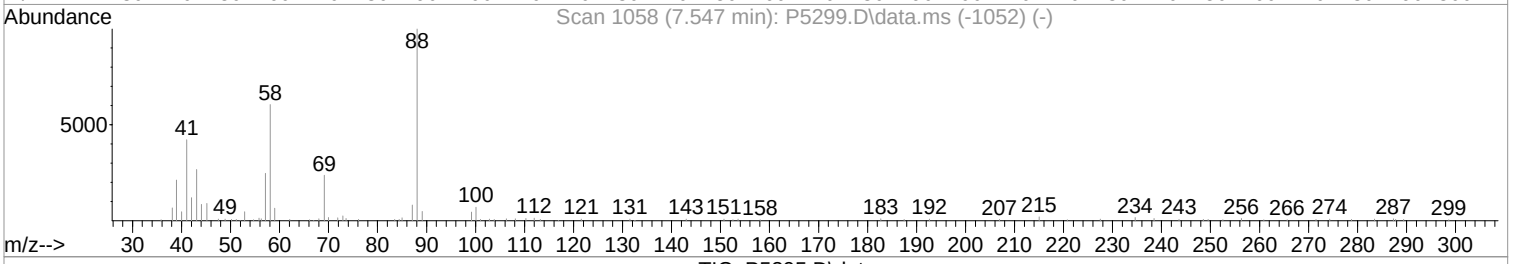
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(58) 1,4-Dioxane

7.541min (-0.006) 10.30 ppb

response 487

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	29.82#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

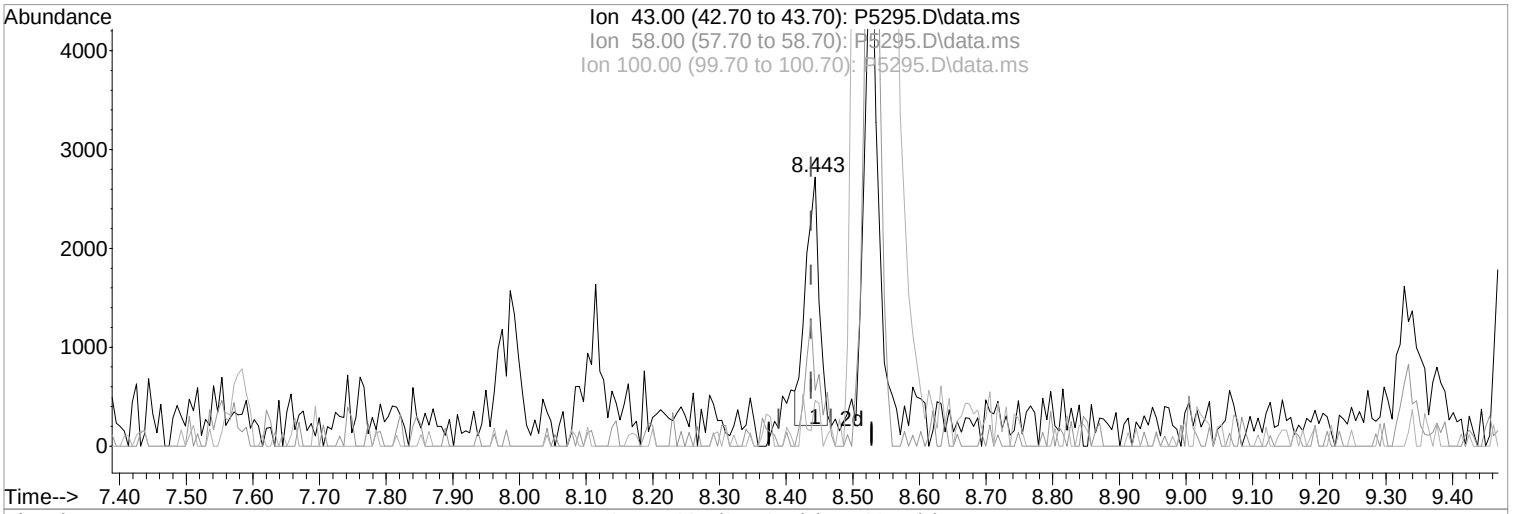
Before

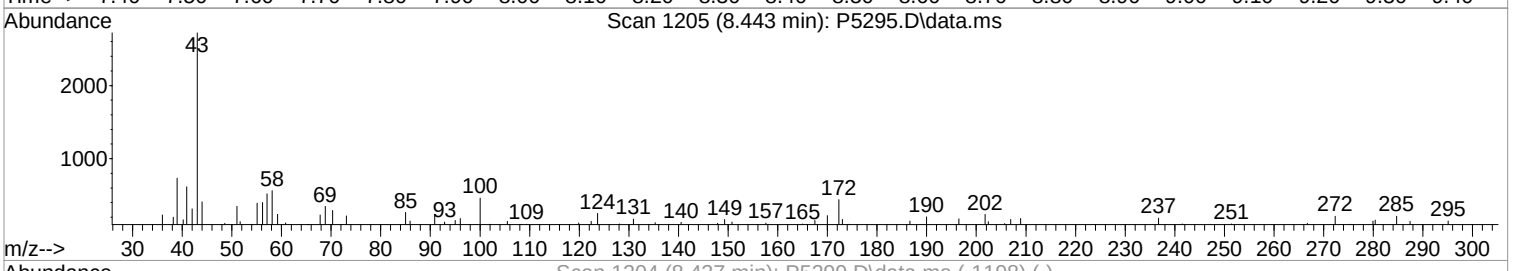
09/27/16

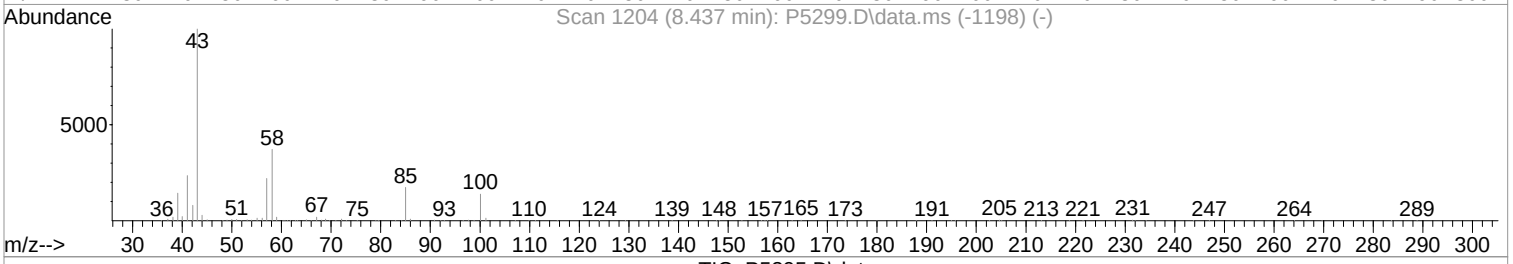
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(64) 4-Methyl-2-pentanone (P)

8.443min (+0.006) 0.91 ppb m

response 3581

Ion	Exp%	Act%
43.00	100	100
58.00	37.00	20.72
100.00	13.70	16.94
0.00	0.00	0.00

Manual Integration:

After

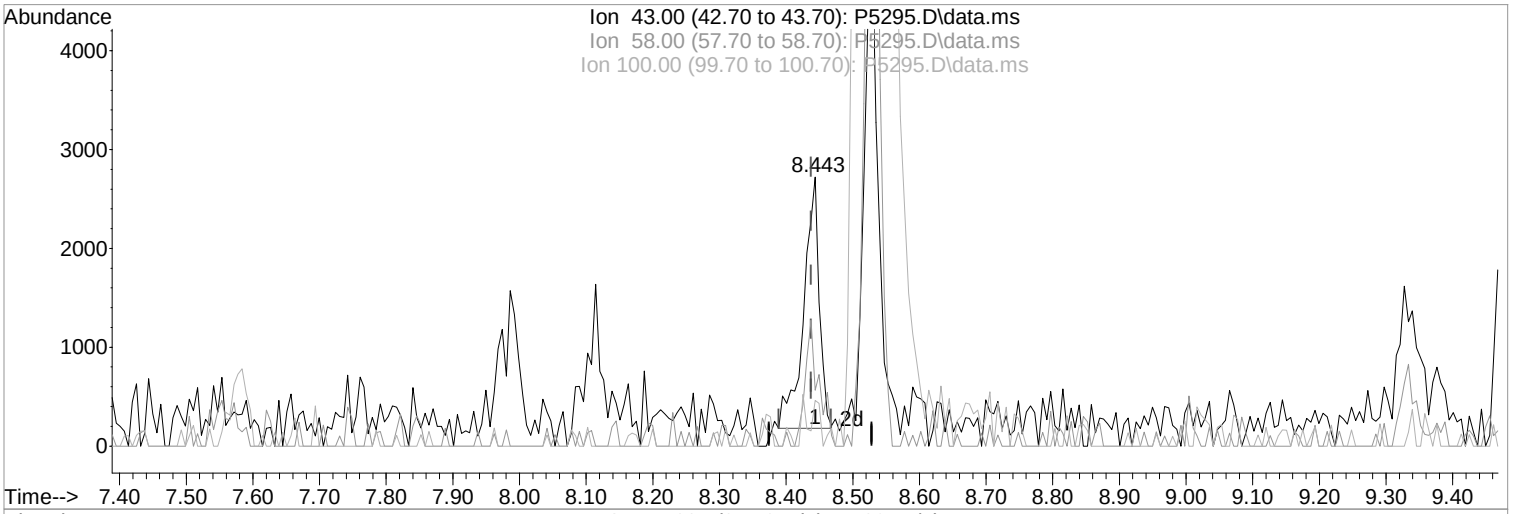
Poor integration.

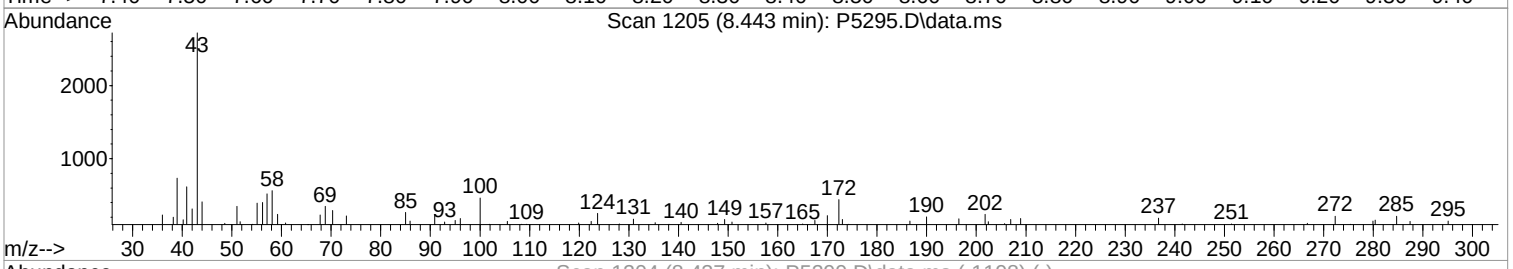
09/27/16

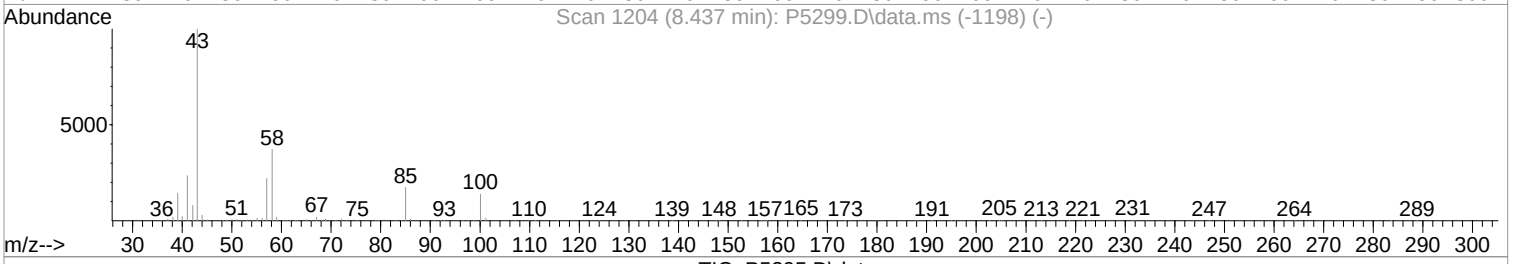
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(64) 4-Methyl-2-pentanone (P)

8.443min (+0.006) 1.06 ppb

response 4171

Ion	Exp%	Act%
43.00	100	100
58.00	37.00	20.72
100.00	13.70	16.94
0.00	0.00	0.00

Manual Integration:

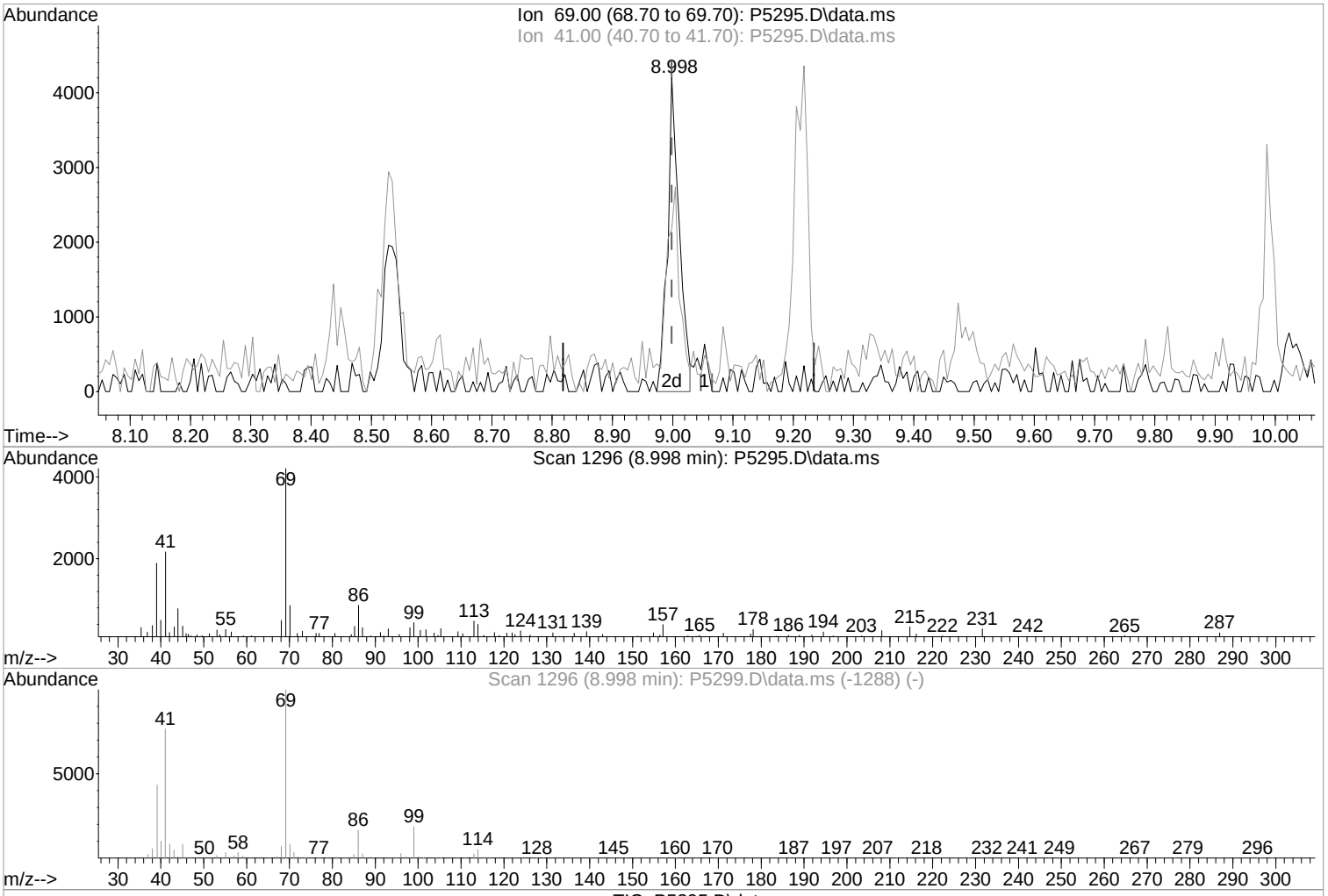
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(68) Ethyl Methacrylate

8.998min (-0.000) 0.88 ppb m

response 5799

Ion	Exp%	Act%
69.00	100	100
41.00	76.90	51.55#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

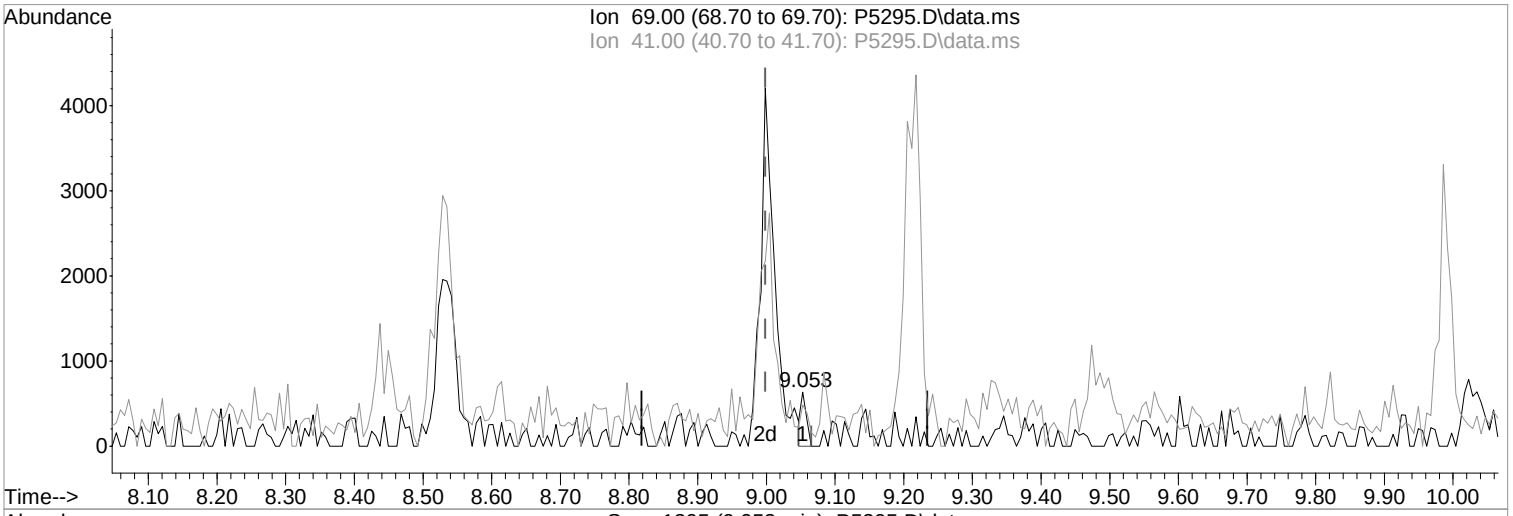
Peak not found.

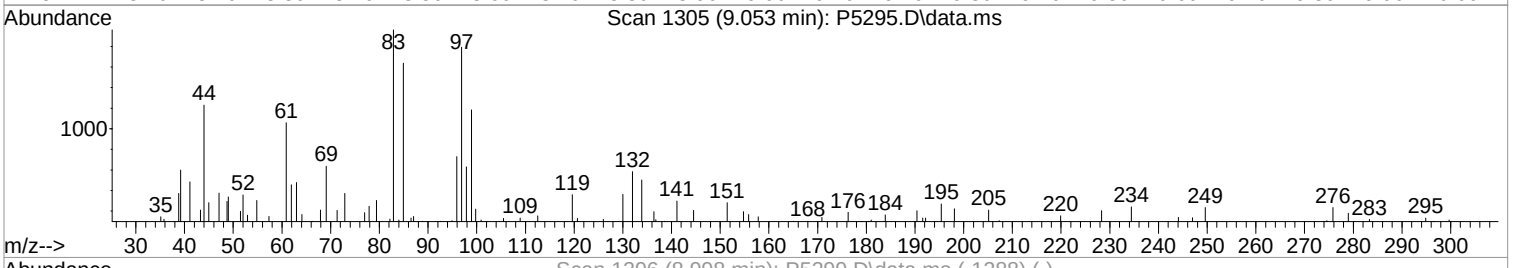
09/27/16

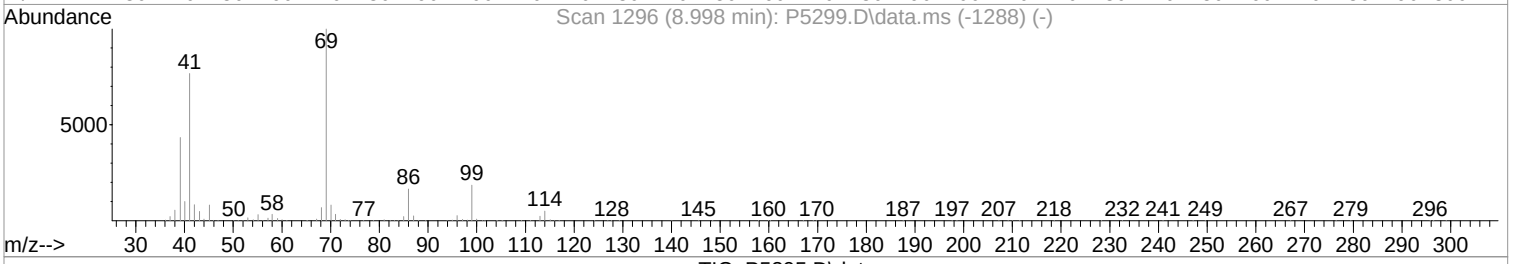
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(68) Ethyl Methacrylate

9.053min (+0.055) 0.05 ppb

response 339

Ion	Exp%	Act%
69.00	100	100
41.00	76.90	76.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

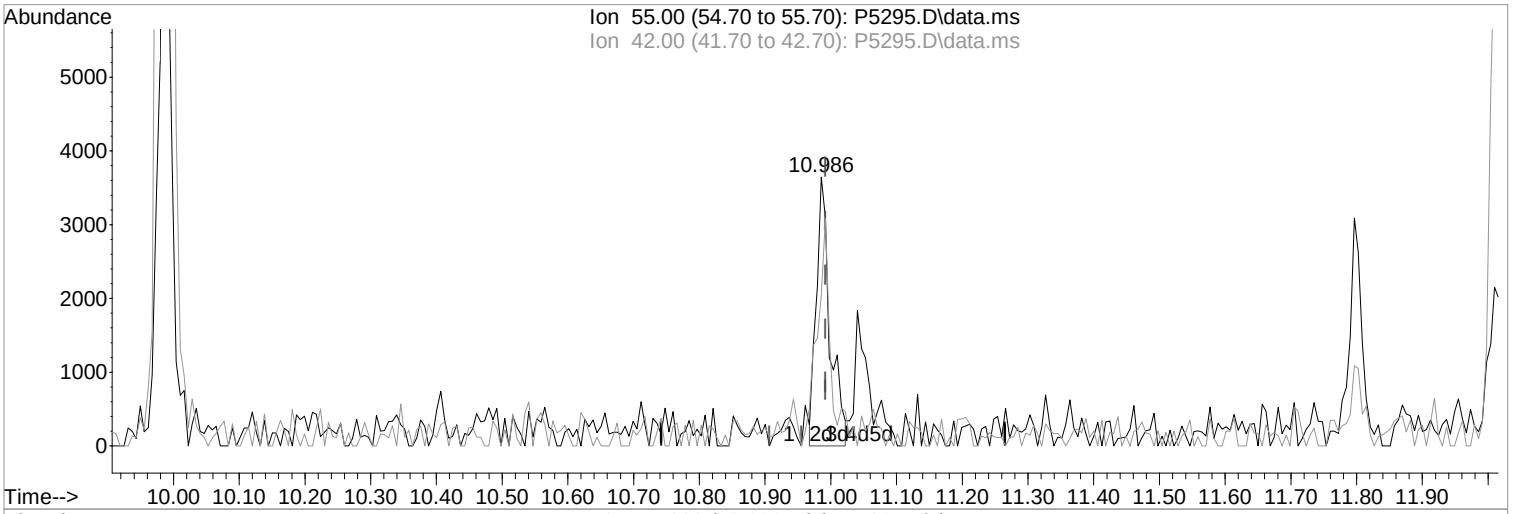
Before

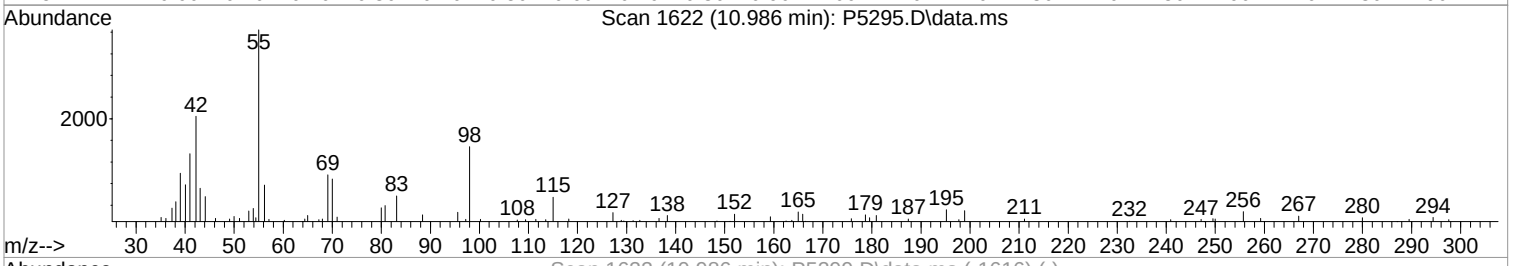
09/27/16

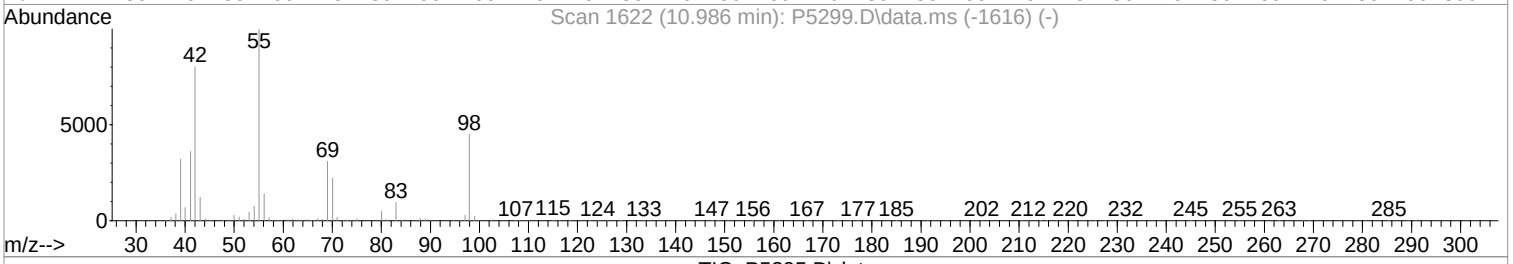
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(90) Cyclohexanone

10.986min (-0.006) 20.36 ppb m

response 5340

Ion	Exp%	Act%
55.00	100	100
42.00	80.20	56.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

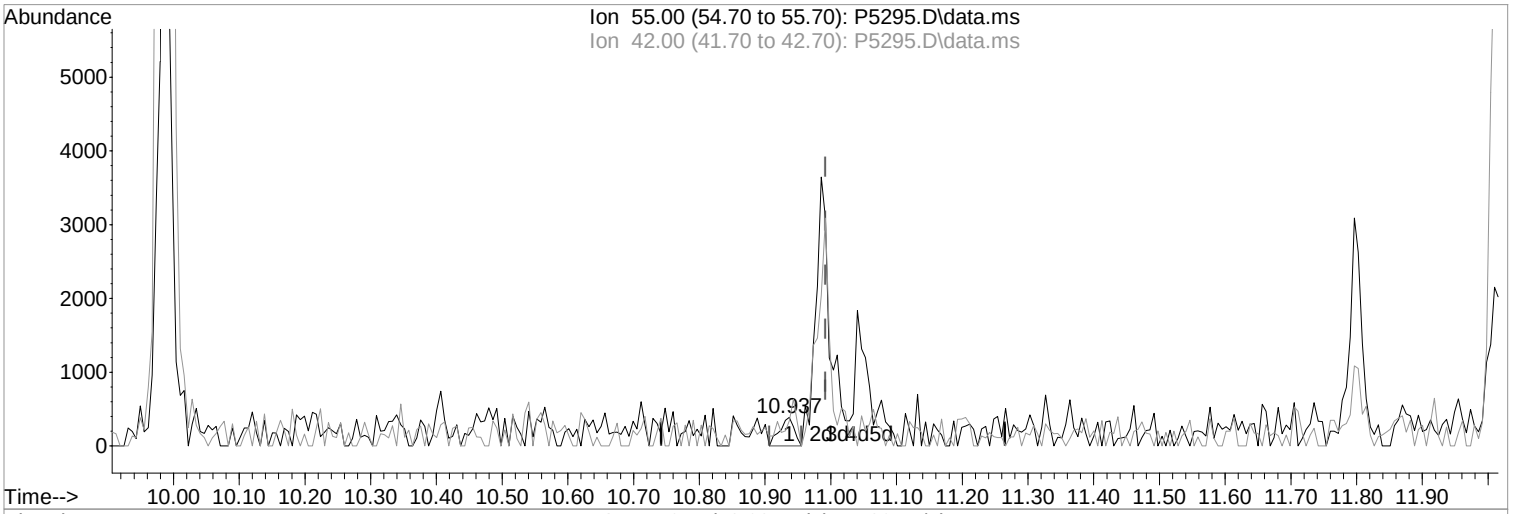
Peak not found.

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(90) Cyclohexanone

10.937min (-0.055) 2.28 ppb

response 599

Ion	Exp%	Act%
55.00	100	100
42.00	80.20	87.92
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

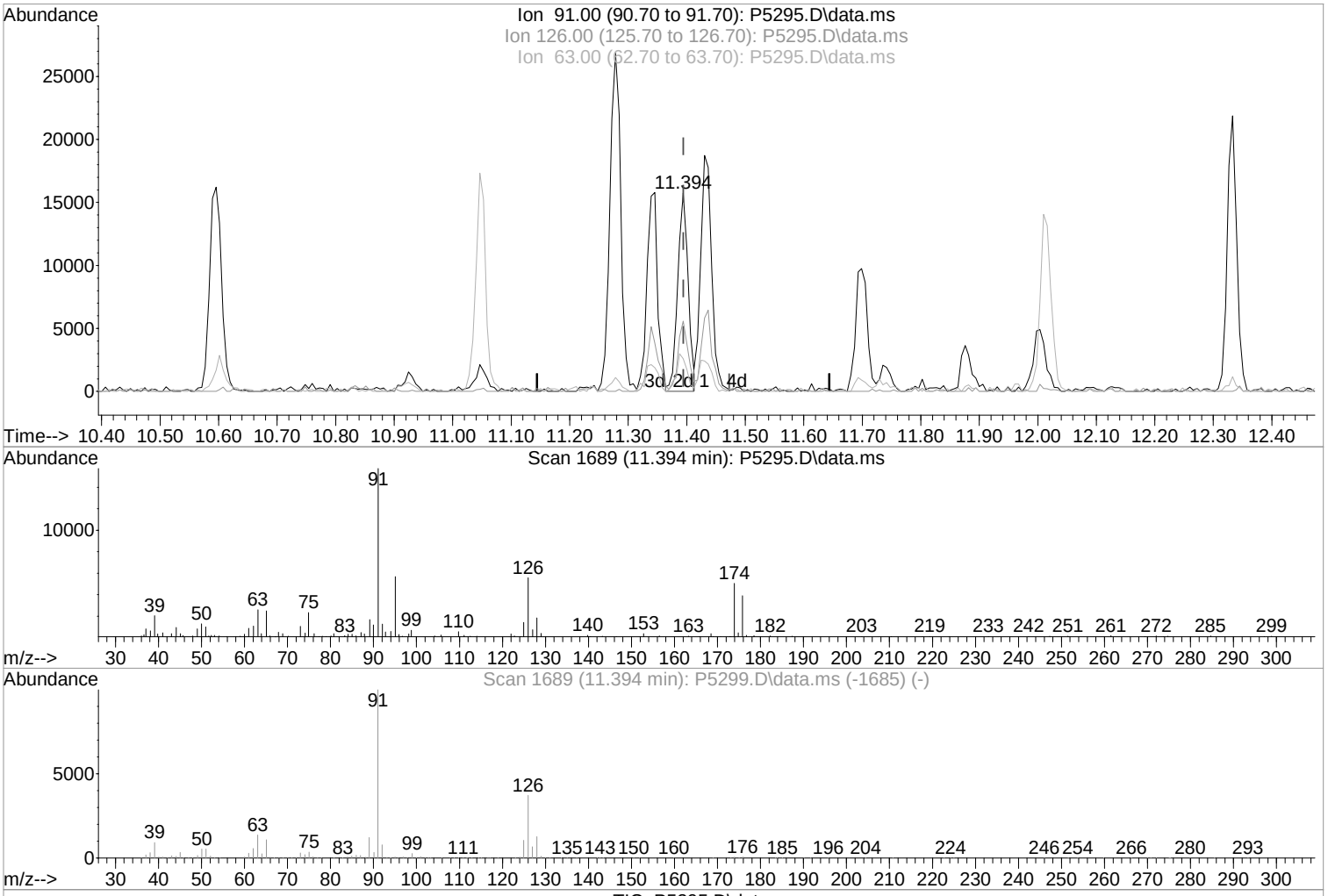
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5295.D\data.ms

(97) 3-Chlorotoluene

11.394min (-0.000) 1.02 ppb m

response 19464

Ion	Exp%	Act%
91.00	100	100
126.00	37.40	35.46
63.00	13.70	16.48#
0.00	0.00	0.00

Manual Integration:

After

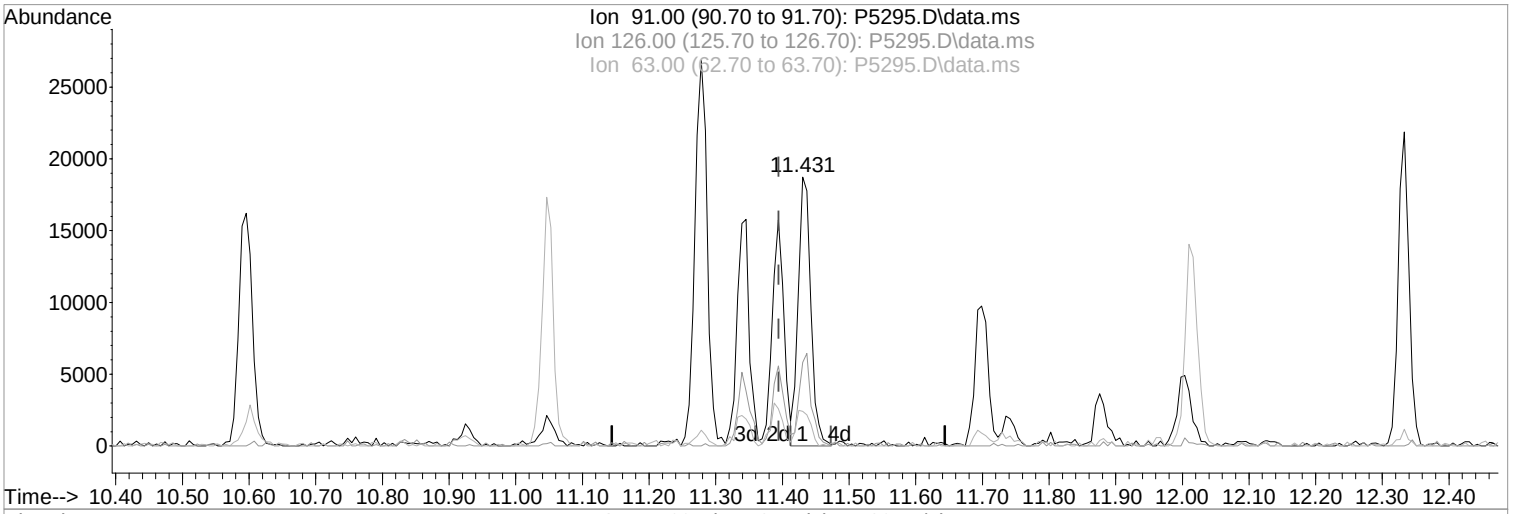
Wrong peak selected.

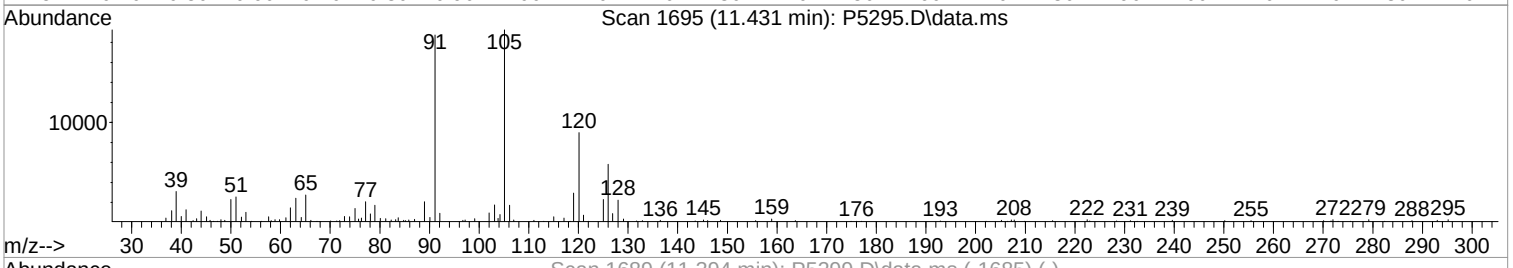
09/27/16

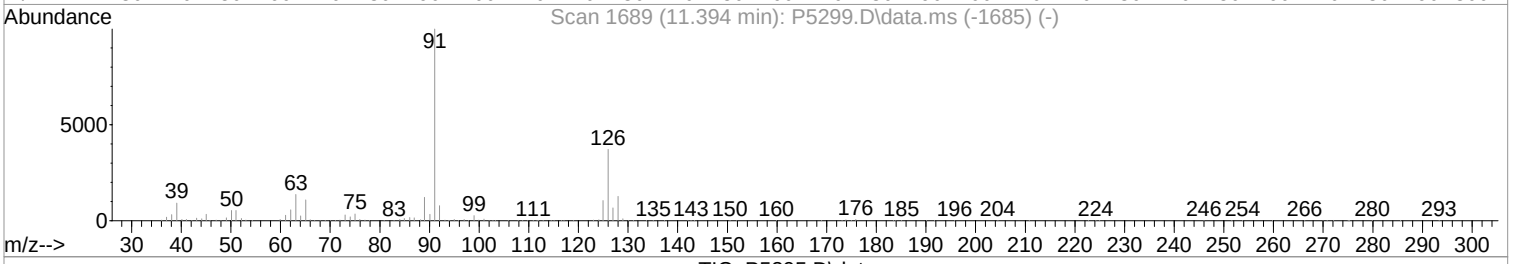
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:03:20 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5295.D\data.ms

(97) 3-Chlorotoluene

11.431min (+0.036) 1.29 ppb

response 24582

Ion	Exp%	Act%
91.00	100	100
126.00	37.40	31.07
63.00	13.70	12.95
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:24:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	756967	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1191180	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1111457	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	595088	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	337971	53.16	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.32%				
48) surr1,1,2-dichloroetha...	6.096	65	386938	53.58	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 107.16%				
65) SURR3,Toluene-d8	8.529	98	1435499	55.10	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.20%				
70) SURR2,BFB	11.047	95	553792	54.49	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	8620m	1.05	ppb		
3) Chloromethane	1.347	50	6822	0.97	ppb		91
4) Vinyl Chloride	1.427	62	6572	1.10	ppb		98
5) Bromomethane	1.683	94	5280m	1.36	ppb		
6) Chloroethane	1.762	64	3970	1.16	ppb		95
7) Freon 21	1.926	67	8346	1.05	ppb		89
8) Trichlorofluoromethane	1.975	101	8144	1.17	ppb		85
9) Diethyl Ether	2.231	59	3537	1.16	ppb		90
10) Freon 123a	2.231	67	5537m	1.13	ppb		
11) Freon 123	2.298	83	7492	1.20	ppb		84
12) Acrolein	2.335	56	1728	4.18	ppb		77
13) 1,1-Diclethene	2.432	96	5593m	1.06	ppb		
14) Freon 113	2.445	101	5765	1.03	ppb	#	65
15) Acetone	2.487	43	3676	2.99	ppb		95
16) 2-Propanol	2.646	45	5065	19.24	ppb		90
17) Iodomethane	2.573	142	5254	0.74	ppb		80
18) Carbon Disulfide	2.634	76	18791	1.13	ppb		99
19) Acetonitrile	2.762	40	1883	8.16	ppb	#	76
20) Allyl Chloride	2.792	76	3599	1.17	ppb	#	84
22) Methylene Chloride	2.920	84	5715	1.01	ppb		86
23) TBA	3.091	59	7783	18.57	ppb		61
24) Acrylonitrile	3.201	53	8048	5.54	ppb	#	61
25) Methyl-t-Butyl Ether	3.262	73	15057	1.02	ppb		99
26) trans-1,2-Dichloroethene	3.243	96	5918	1.00	ppb		94
28) 1,1-Diclethane	3.798	63	9855	1.00	ppb		89
29) Vinyl Acetate	3.914	86	676	0.77	ppb	#	67
30) DIPE	3.938	45	18413m	0.95	ppb		
31) 2-Chloro-1,3-Butadiene	3.926	53	10039	1.08	ppb		77
32) ETBE	4.530	59	16809	0.98	ppb		88
33) 2,2-Dichloropropane	4.700	77	9579m	1.07	ppb		
34) cis-1,2-Dichloroethene	4.712	96	5573m	0.92	ppb		
36) Propionitrile	4.865	54	2275	4.51	ppb	#	1
37) Bromochloromethane	5.151	130	3536	1.02	ppb	#	79
38) Methacrylonitrile	5.157	67	2142	1.26	ppb	#	46
40) Chloroform	5.322	83	9863	1.03	ppb		96
41) 1,1,1-Trichloroethane	5.590	97	8669m	0.98	ppb		
42) TAME	6.401	73	15352	0.99	ppb		92
44) Cyclohexane	5.682	41	7020m	1.10	ppb		
46) Carbontetrachloride	5.859	121	2472m	0.99	ppb		

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:24:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 1,1-Dichloropropene	5.877	75	8250	1.01	ppb		88
49) Benzene	6.169	78	22146	1.00	ppb		99
50) 1,2-Dichloroethane	6.218	62	7534	1.05	ppb		85
51) Iso-Butyl Alcohol	6.200	43	5262	27.17	ppb	#	65
52) n-Heptane	6.645	43	8217m	1.03	ppb		
53) 1-Butanol	7.114	56	5883m	51.83	ppb		
54) Trichloroethene	7.084	130	5888	0.94	ppb	#	78
55) Methylcyclohexane	7.316	55	8303	1.06	ppb		82
56) 1,2-Diclpropane	7.358	63	6369	1.07	ppb		94
57) Dibromomethane	7.498	93	3164m	1.01	ppb		
58) 1,4-Dioxane	7.578	88	1466m	31.00	ppb		
59) Methyl Methacrylate	7.584	69	3336	1.02	ppb		94
60) Bromodichloromethane	7.712	83	7731	1.02	ppb		83
61) 2-Nitropropane	7.980	41	2664	2.31	ppb	#	29
62) 2-Chloroethylvinyl Ether	8.114	63	2538	1.01	ppb		72
63) cis-1,3-Dichloropropene	8.242	75	10228	1.07	ppb		97
64) 4-Methyl-2-pentanone	8.443	43	3581m	0.91	ppb		
66) Toluene	8.602	91	24738	1.01	ppb		97
67) trans-1,3-Dichloropropene	8.858	75	8925	1.04	ppb		75
68) Ethyl Methacrylate	8.998	69	5799m	0.88	ppb		
69) 1,1,2-Trichloroethane	9.041	97	3709	0.85	ppb	#	79
72) Tetrachloroethene	9.181	164	5147	1.03	ppb	#	83
73) 2-Hexanone	9.327	43	2849	1.02	ppb		86
74) 1,3-Dichloropropane	9.212	76	7920	1.00	ppb		88
75) Dibromochloromethane	9.437	129	4863	0.94	ppb		97
76) N-Butyl Acetate	9.480	43	7741	1.00	ppb		89
77) 1,2-Dibromoethane	9.529	107	4637	1.07	ppb		86
78) Chlorobenzene	10.016	112	16226	0.98	ppb		95
79) 3-CBTF	10.035	180	8537	0.93	ppb		88
80) 4-CBTF	10.083	180	8328	1.01	ppb		92
81) 1,1,1,2-Tetrachloroethane	10.096	131	5663	0.96	ppb	#	75
82) Ethylbenzene	10.132	106	9365	1.04	ppb	#	80
83) (m+p)Xylene	10.242	106	23176	2.13	ppb	#	84
84) o-Xylene	10.595	106	10998	0.99	ppb		100
85) Styrene	10.608	104	18577	1.02	ppb		94
87) Bromoform	10.760	173	2780	1.00	ppb	#	61
88) 2-CBTF	10.833	180	9825	1.11	ppb	#	84
89) Isopropylbenzene	10.925	105	28615	1.07	ppb		93
90) Cyclohexanone	10.986	55	5340m	20.36	ppb		
91) trans-1,4-Dichloro-2-B...	11.229	53	1746	1.19	ppb	#	75
92) 1,1,2,2-Tetrachloroethane	11.181	83	5504	1.12	ppb		91
93) Bromobenzene	11.175	156	7184	1.01	ppb		96
94) 1,2,3-Trichloropropane	11.217	110	1312	0.84	ppb	#	69
95) n-Propylbenzene	11.278	91	34806	1.11	ppb		99
96) 2-Chlorotoluene	11.345	91	19853	1.07	ppb		86
97) 3-Chlorotoluene	11.394	91	19464m	1.02	ppb		
98) 4-Chlorotoluene	11.431	91	24582	1.13	ppb		97
99) 1,3,5-Trimethylbenzene	11.425	105	25005	1.11	ppb		84
100) tert-Butylbenzene	11.699	119	21218	1.06	ppb		96
101) 1,2,4-Trimethylbenzene	11.742	105	24976	1.06	ppb		89
102) 3,4-DCBTF	11.796	214	7075	1.03	ppb		97
103) sec-Butylbenzene	11.882	105	29044	1.03	ppb		93
104) p-Isopropyltoluene	12.004	119	24750	1.01	ppb		97
105) 1,3-Dclbenz	11.961	146	12554	0.92	ppb		99
106) 1,4-Dclbenz	12.034	146	13714	0.99	ppb		96
107) 2,4-DCBTF	12.089	214	6721	1.06	ppb	#	83

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 10:24:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

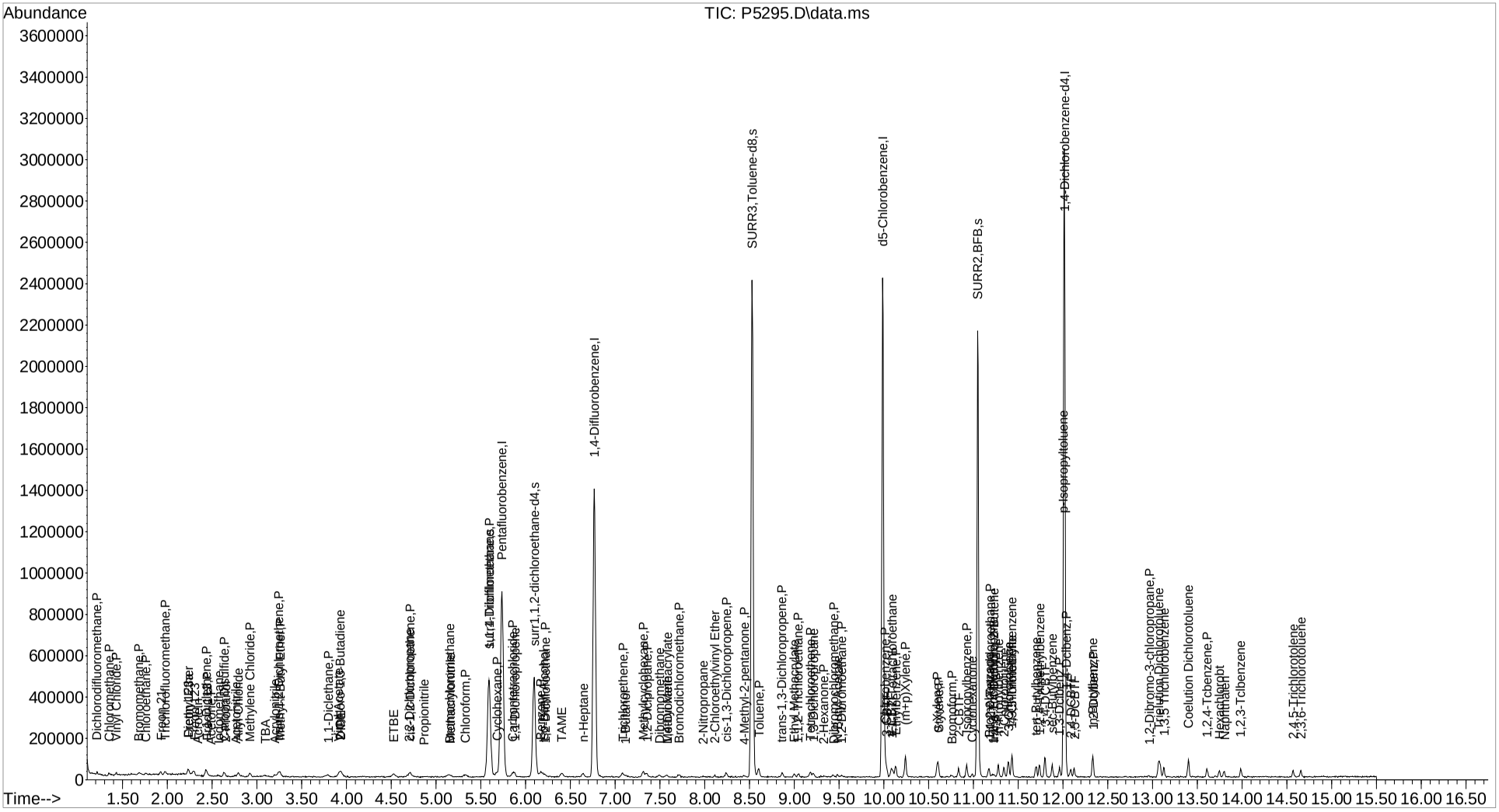
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 2,5-DCBTF	12.132	214	8314m	1.15	ppb		
109) n-Butylbenzene	12.333	91	24748	1.14	ppb		84
110) 1,2-Dclbenz	12.339	146	12535	0.98	ppb		98
111) 1,2-Dibromo-3-chloropr...	12.967	157	1024	0.96	ppb	#	70
112) Trielution Dichlorotol...	13.071	125	37448	3.23	ppb		97
113) 1,3,5 Trichlorobenzene	13.125	180	10962	1.08	ppb	#	93
114) Coelution Dichlorotoluene	13.400	125	25393	2.03	ppb		96
115) 1,2,4-Tcbenzene	13.607	180	8736	0.95	ppb		98
116) Hexachlorobt	13.747	225	4144	1.06	ppb		94
117) Naphthalen	13.802	128	14376	0.90	ppb		95
118) 1,2,3-Tclbenzene	13.985	180	7657	0.96	ppb	#	74
119) 2,4,5-Trichlorotolene	14.570	159	5472	0.98	ppb	#	78
120) 2,3,6-Trichlorotoluene	14.656	159	5593	1.08	ppb	#	78

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5295.D
Acq On : 26 Sep 2016 5:46 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

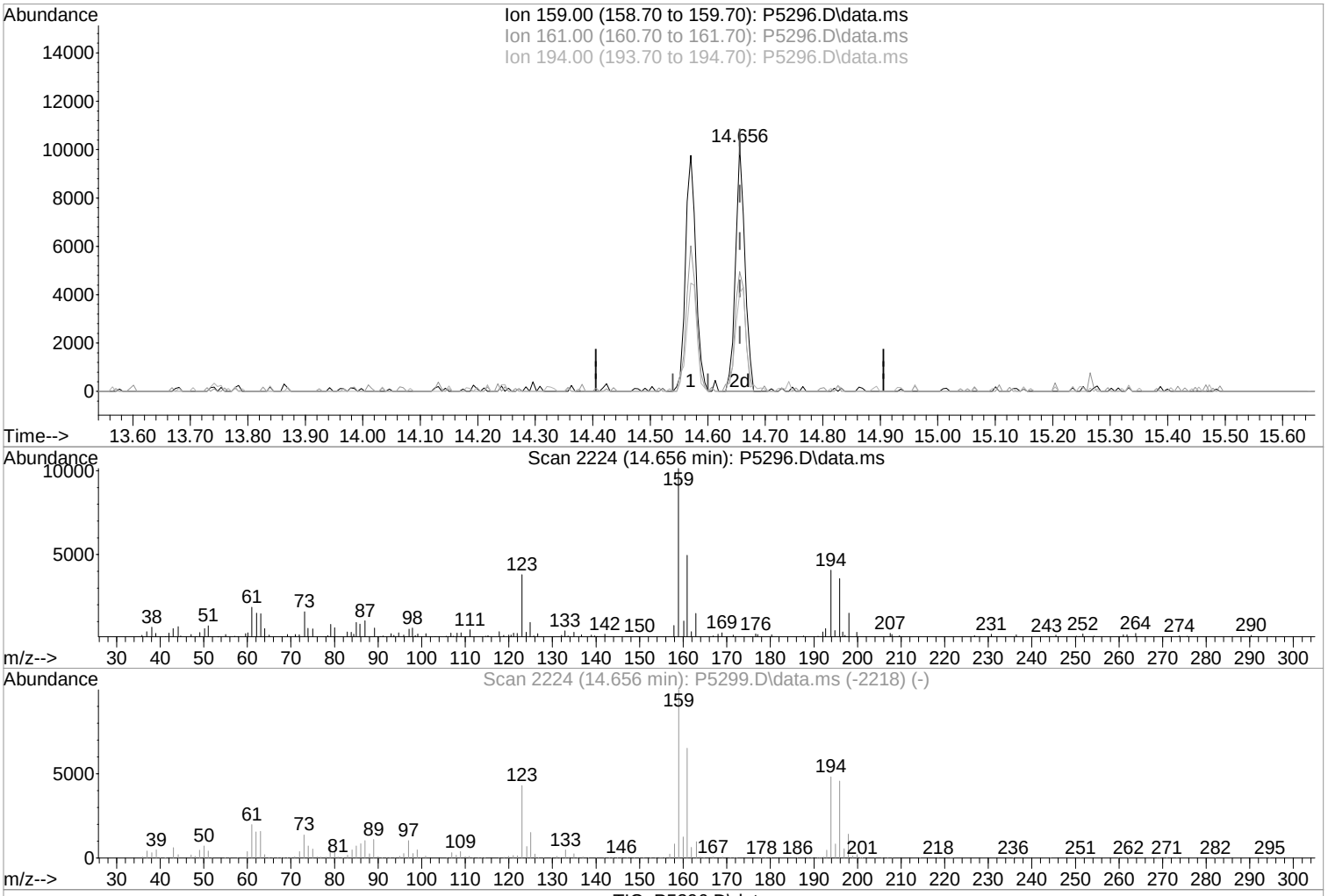
Quant Time: Sep 27 10:24:15 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.656min (-0.000) 2.16 ppb m

response 11459

Ion	Exp%	Act%
159.00	100	100
161.00	65.40	48.86#
194.00	48.20	40.06
0.00	0.00	0.00

Manual Integration:

After

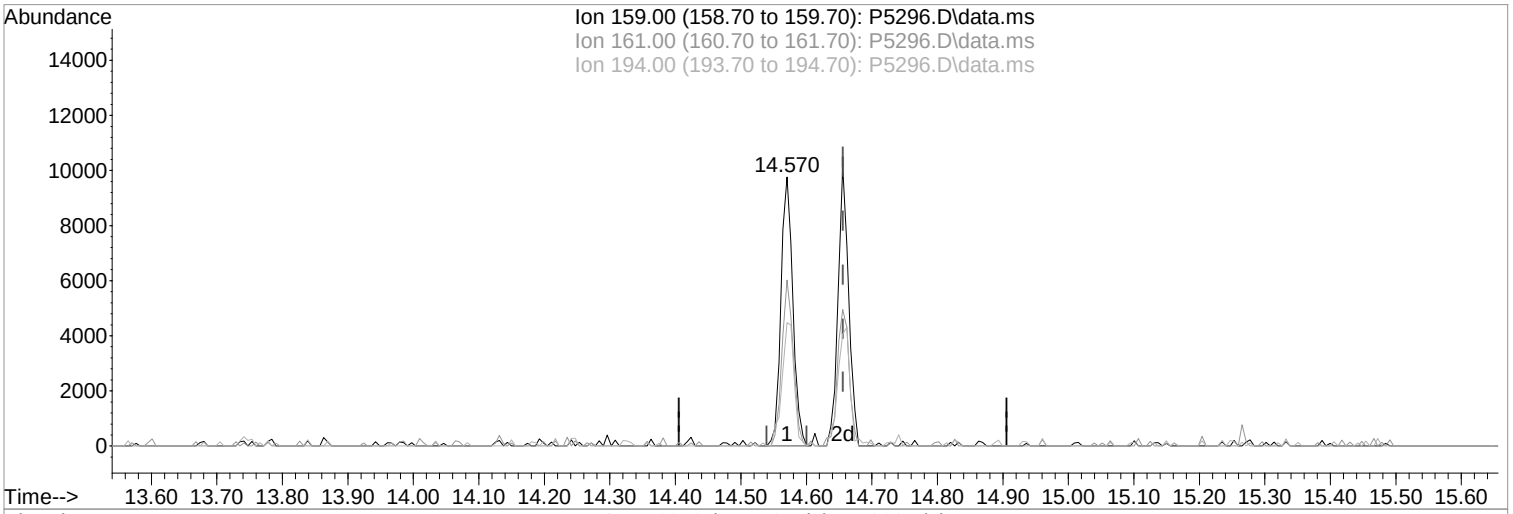
Wrong peak selected.

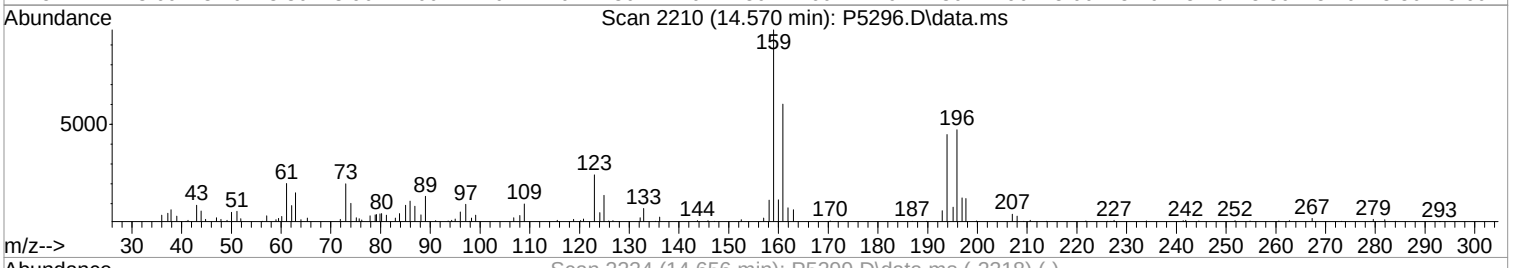
09/27/16

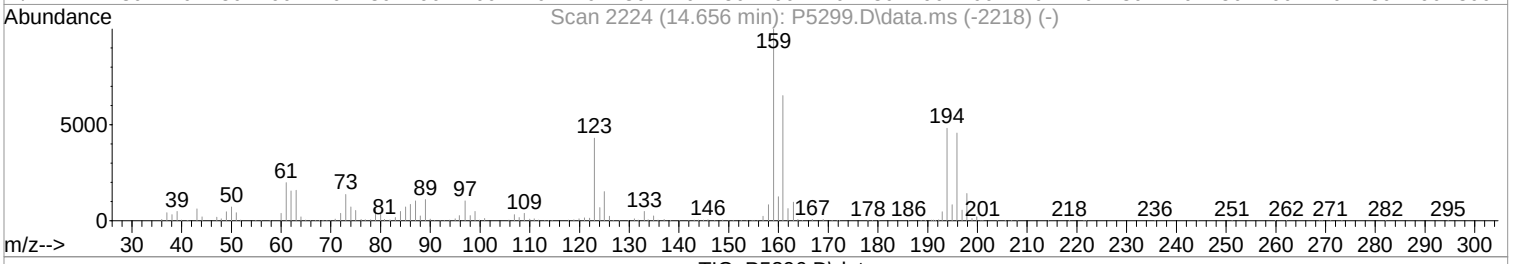
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.570min (-0.086) 2.32 ppb

response 12284

Ion	Exp%	Act%
159.00	100	100
161.00	65.40	61.62
194.00	48.20	45.83
0.00	0.00	0.00

Manual Integration:

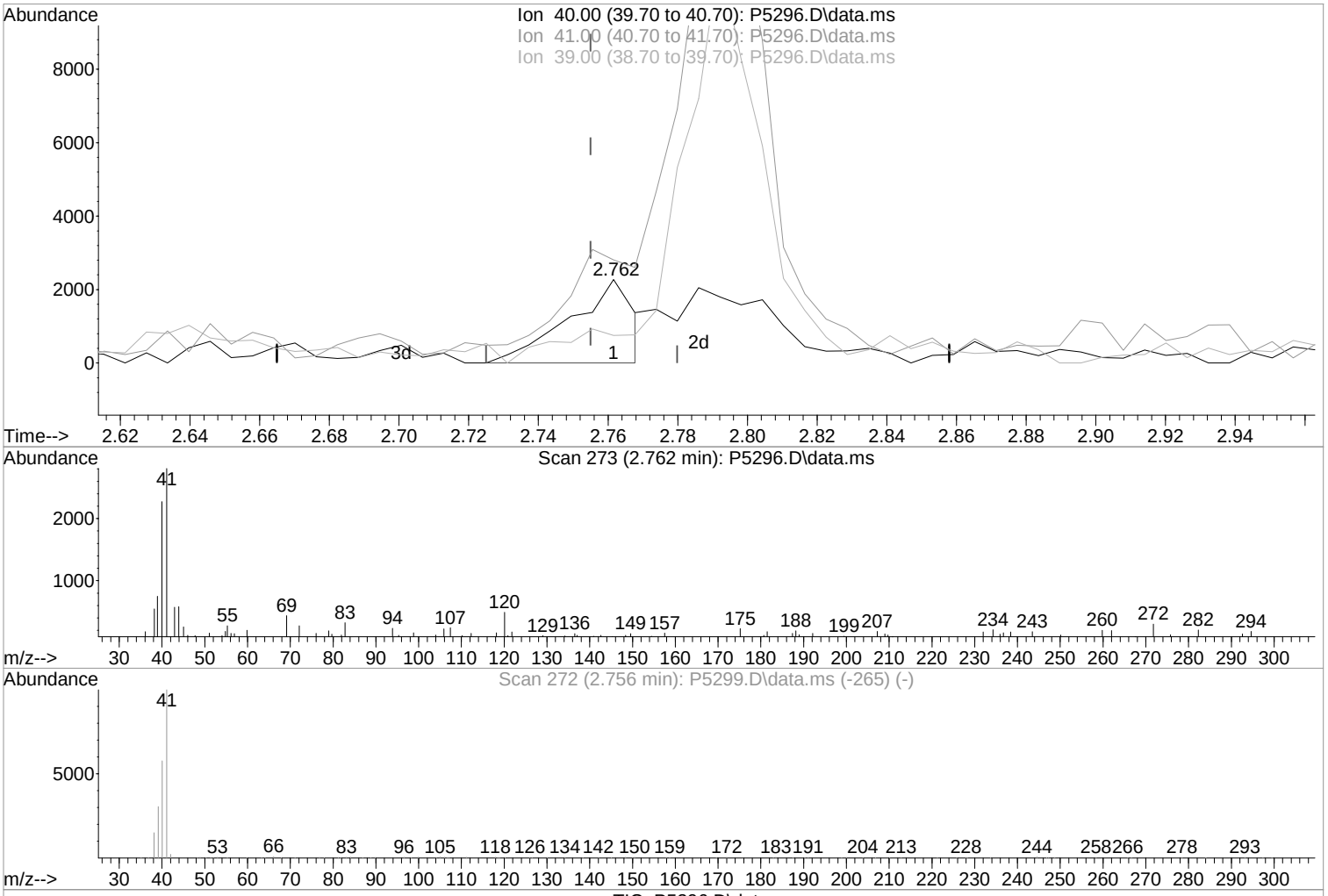
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(19) Acetonitrile

2.762min (+0.007) 12.40 ppb m

response 2887

Ion	Exp%	Act%
40.00	100	100
41.00	173.40	123.59#
39.00	54.40	33.01#
0.00	0.00	0.00

Manual Integration:

After

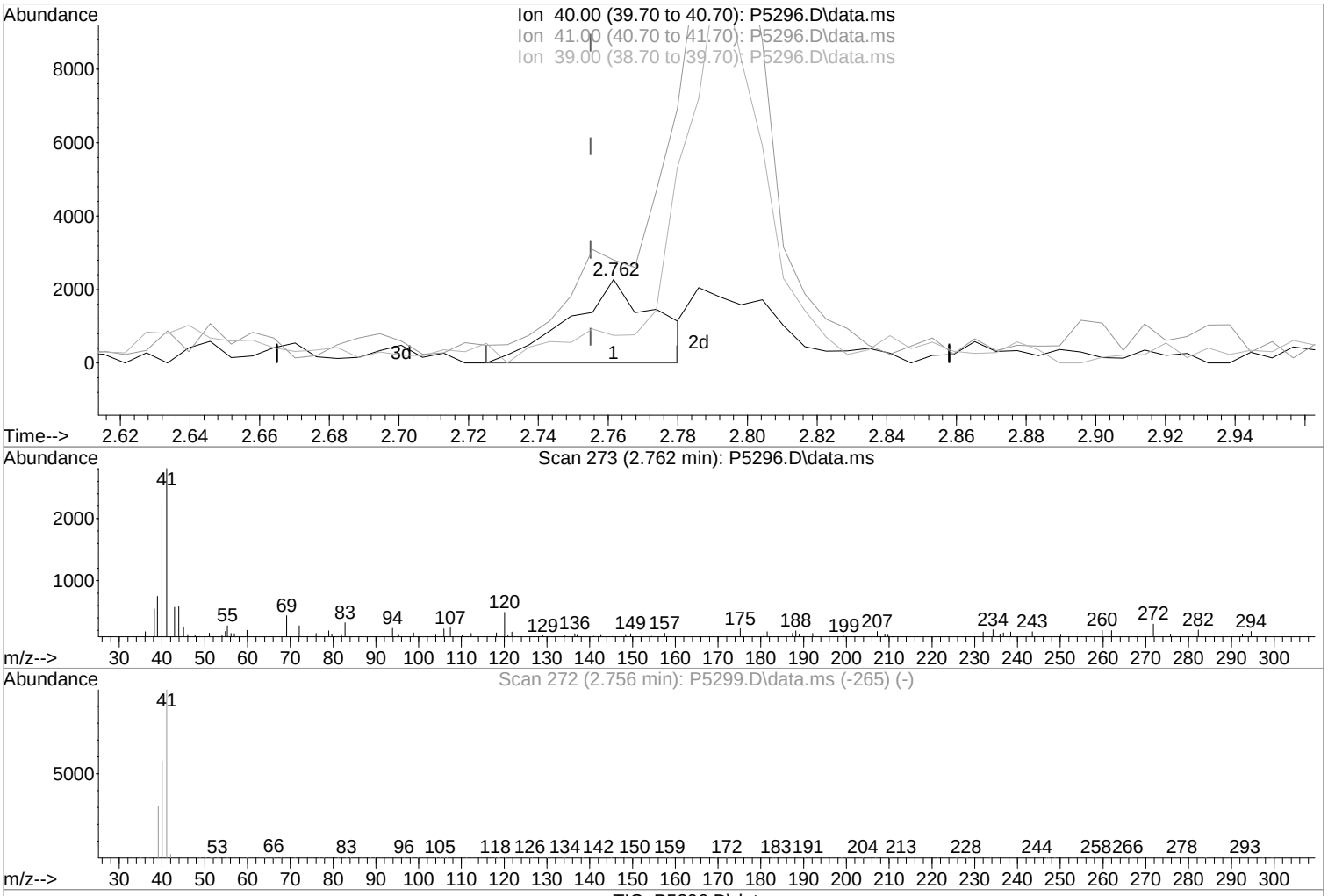
Poor integration.

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(19) Acetonitrile

2.762min (+0.007) 16.49 ppb

response 3839

Ion	Exp%	Act%
40.00	100	100
41.00	173.40	123.59#
39.00	54.40	33.01#
0.00	0.00	0.00

Manual Integration:

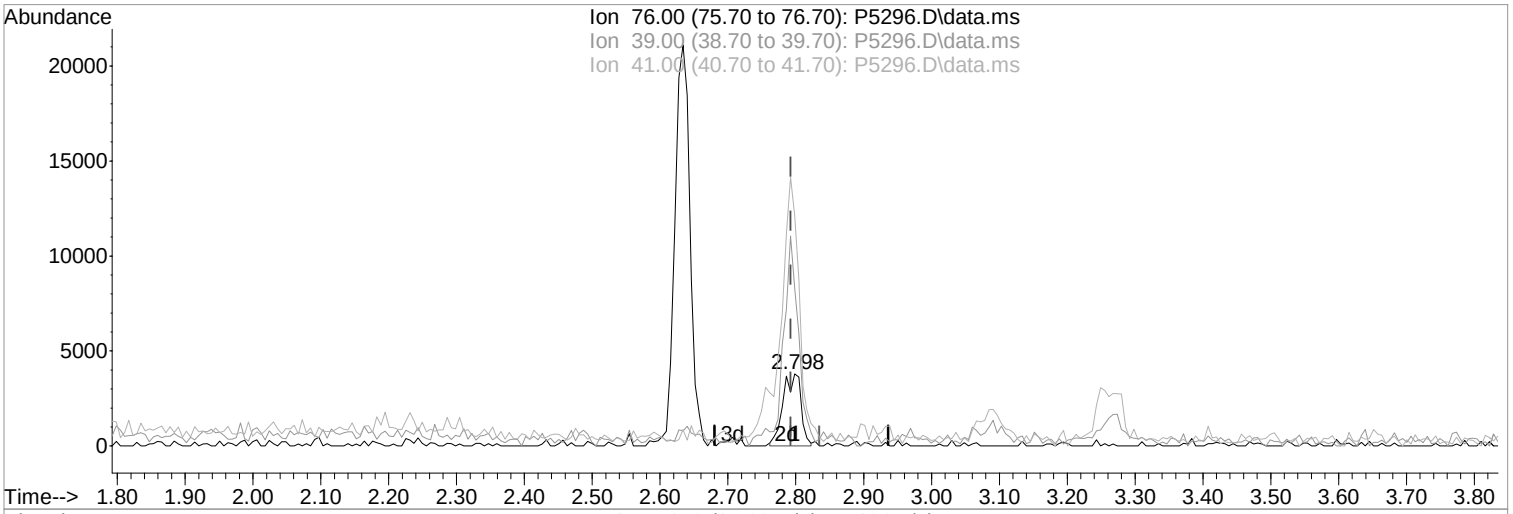
Before

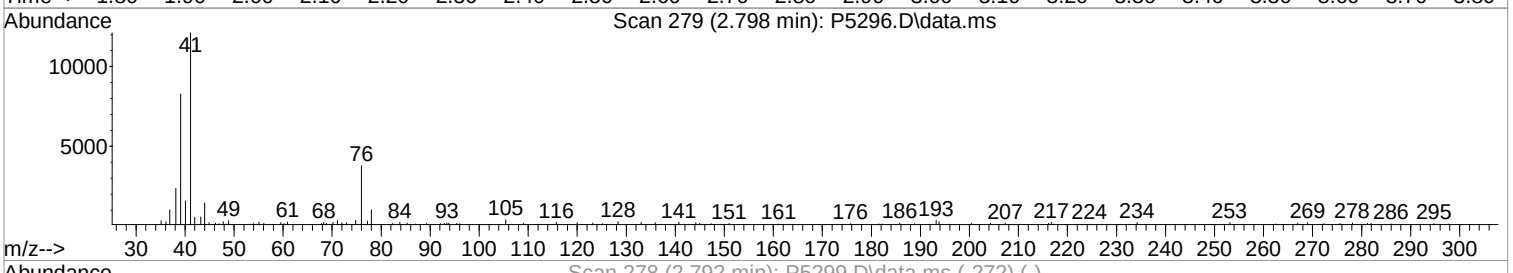
09/27/16

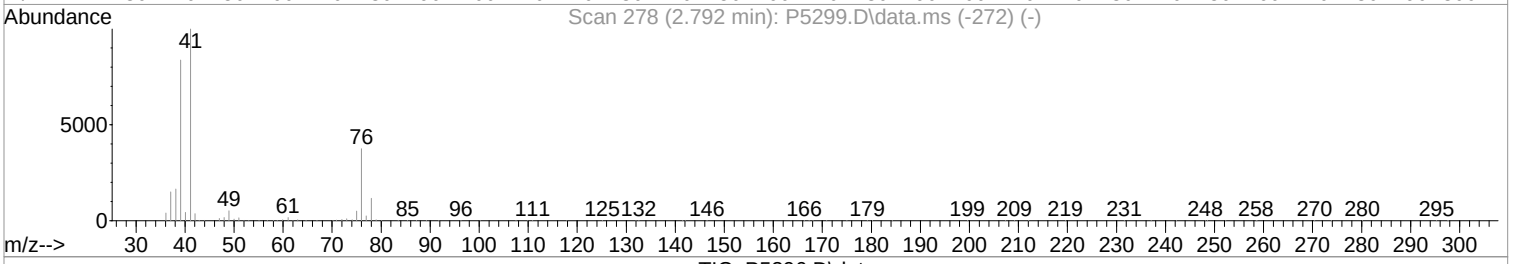
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(20) Allyl Chloride

2.798min (+0.006) 2.26 ppb m

response 6979

Ion	Exp%	Act%
76.00	100	100
39.00	239.20	218.55#
41.00	319.60	319.82
0.00	0.00	0.00

Manual Integration:

After

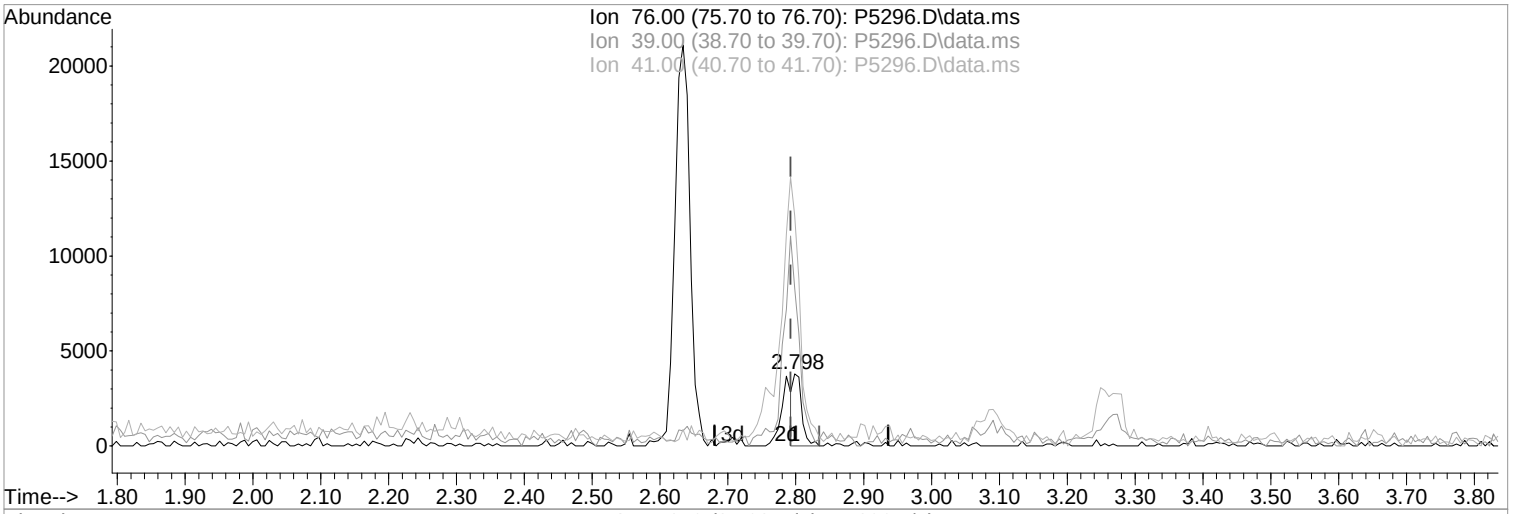
Split Peak

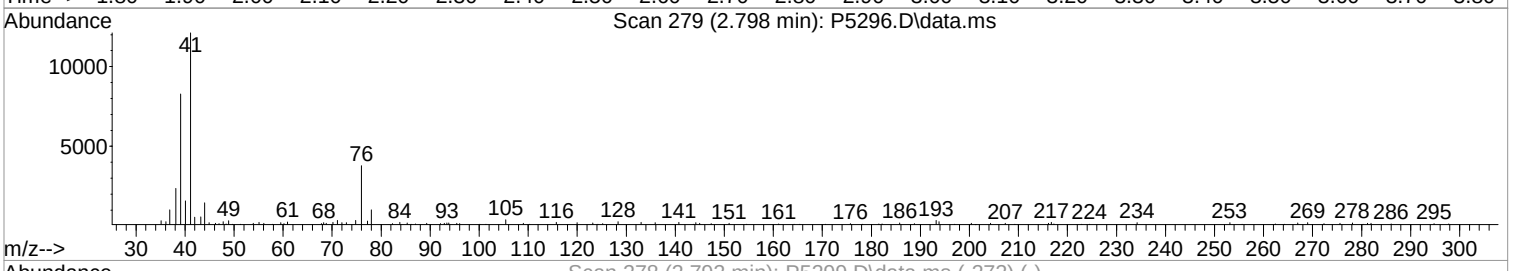
09/27/16

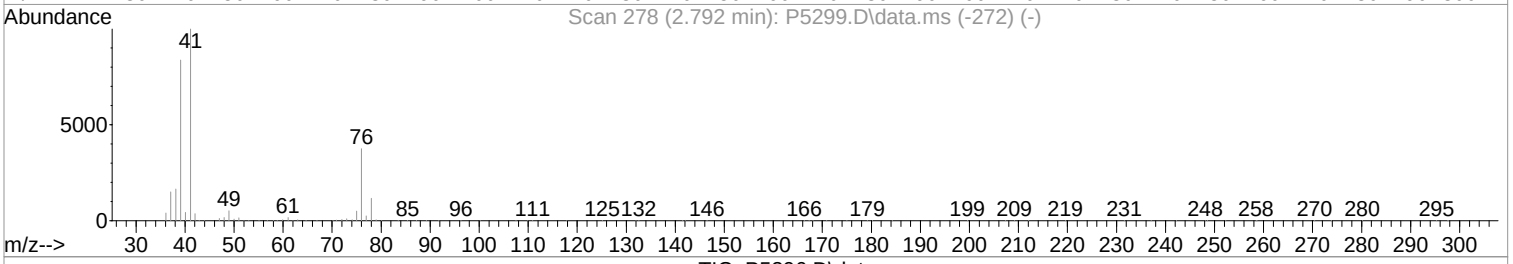
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(20) Allyl Chloride

2.798min (+0.006) 1.11 ppb

response 3440

Ion	Exp%	Act%
76.00	100	100
39.00	239.20	218.55#
41.00	319.60	319.82
0.00	0.00	0.00

Manual Integration:

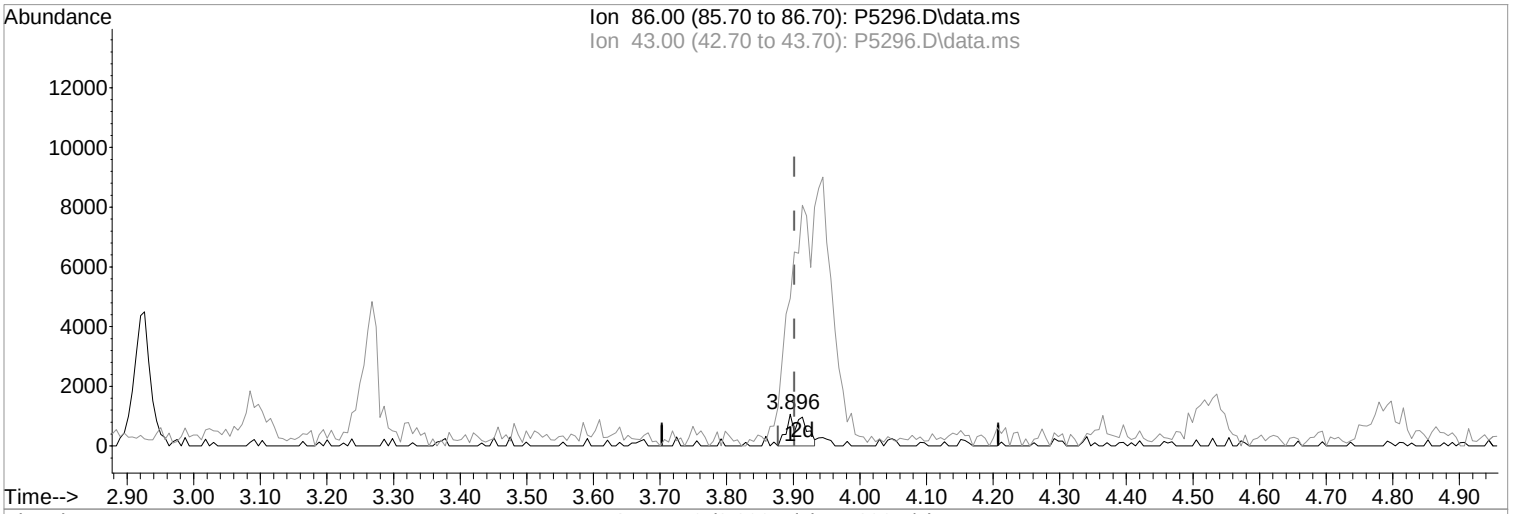
Before

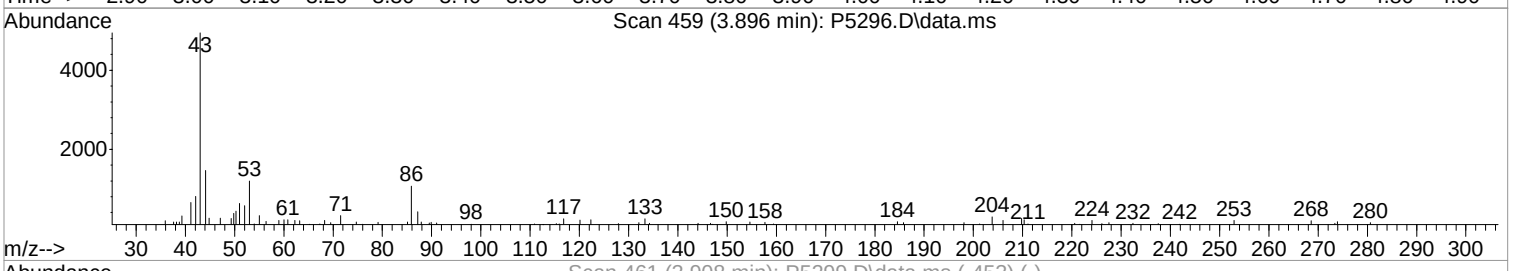
09/27/16

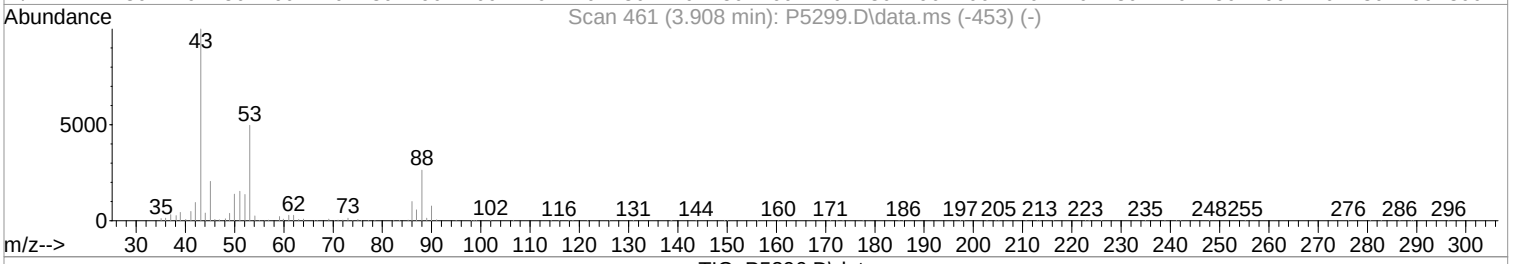
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(29) Vinyl Acetate

3.896min (-0.006) 2.20 ppb m

response 1957

Ion	Exp%	Act%
86.00	100	100
43.00	1023.00	464.69#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

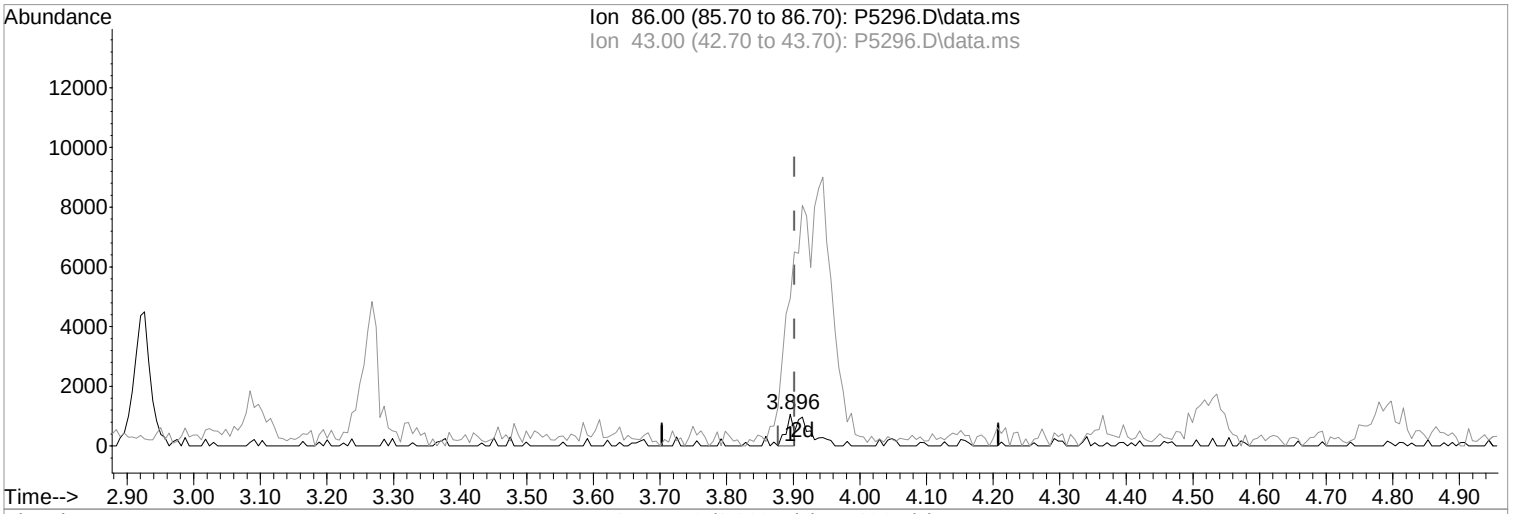
09/27/16

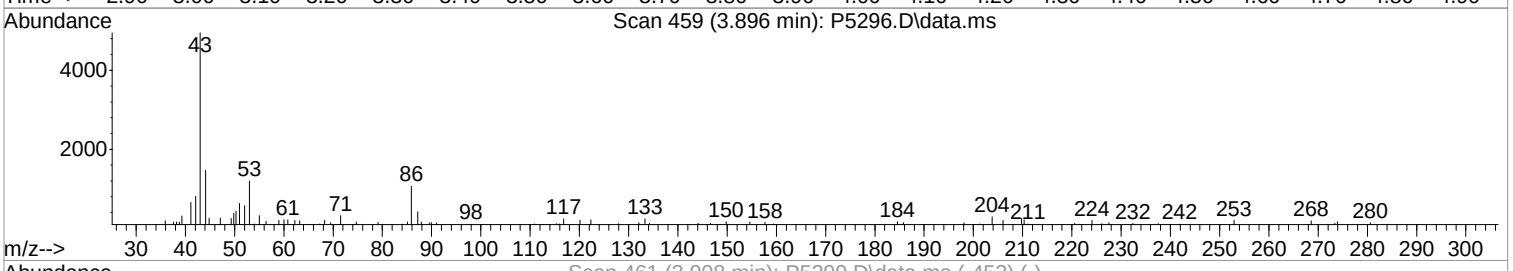
1st 09/27/16
2nd 09/27/16

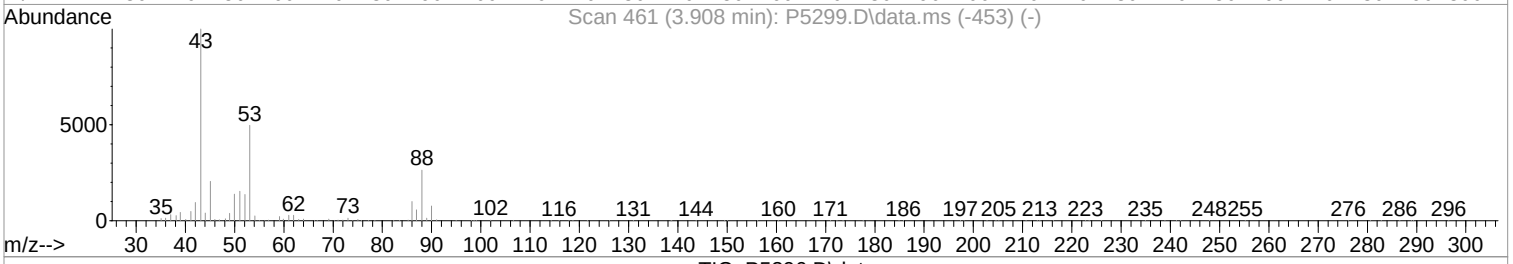
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(29) Vinyl Acetate

3.896min (-0.006) 0.94 ppb

response 839

Ion	Exp%	Act%
86.00	100	100
43.00	1023.00	464.69#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

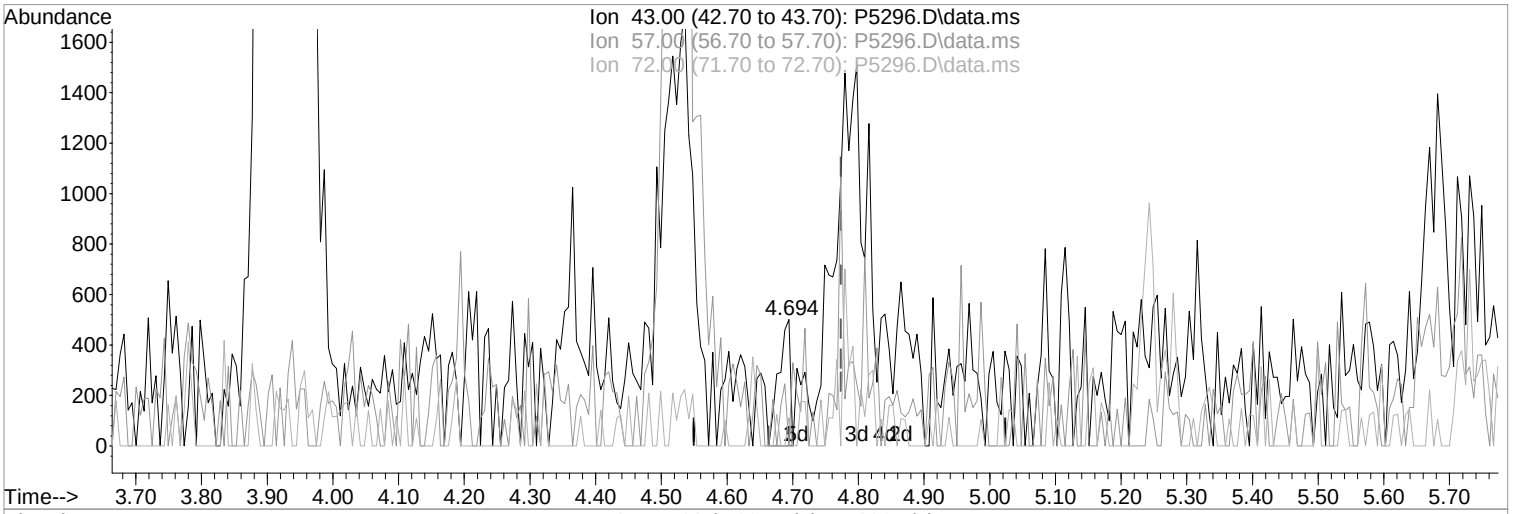
Before

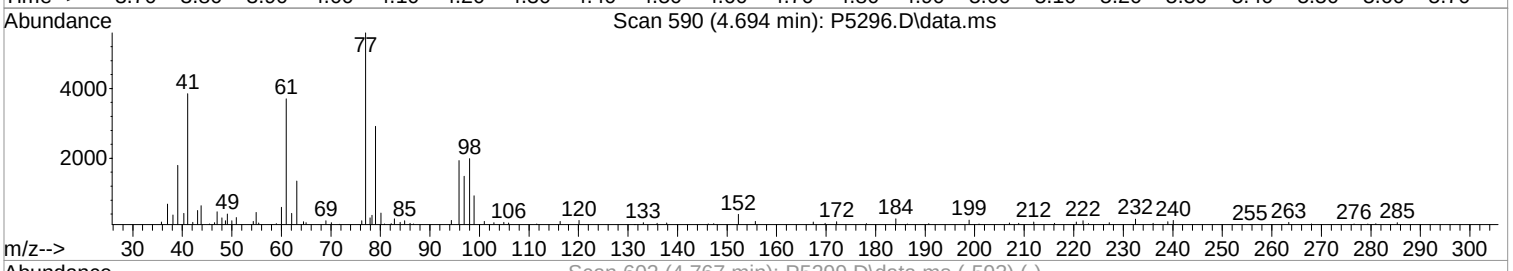
09/27/16

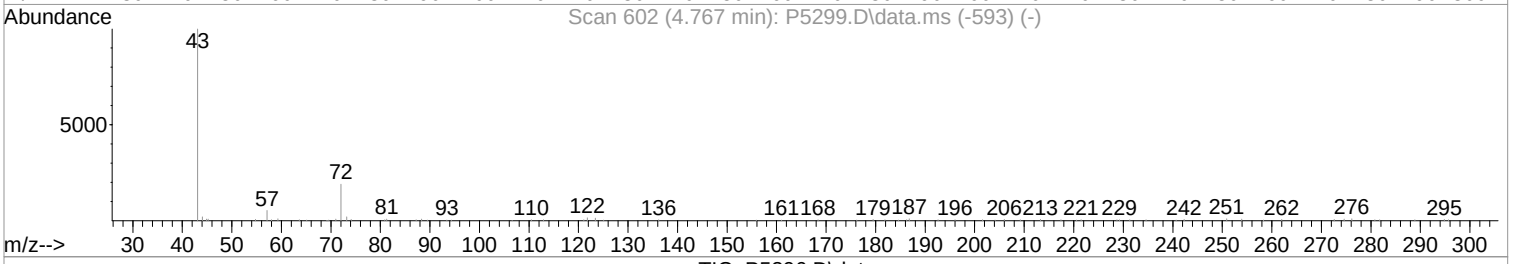
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(35) 2-Butanone (P)

4.694min (-0.079) 0.36 ppb

response 610

Ion	Exp%	Act%
43.00	100	100
57.00	5.80	0.00
72.00	25.10	22.16
0.00	0.00	0.00

Manual Integration:

Before

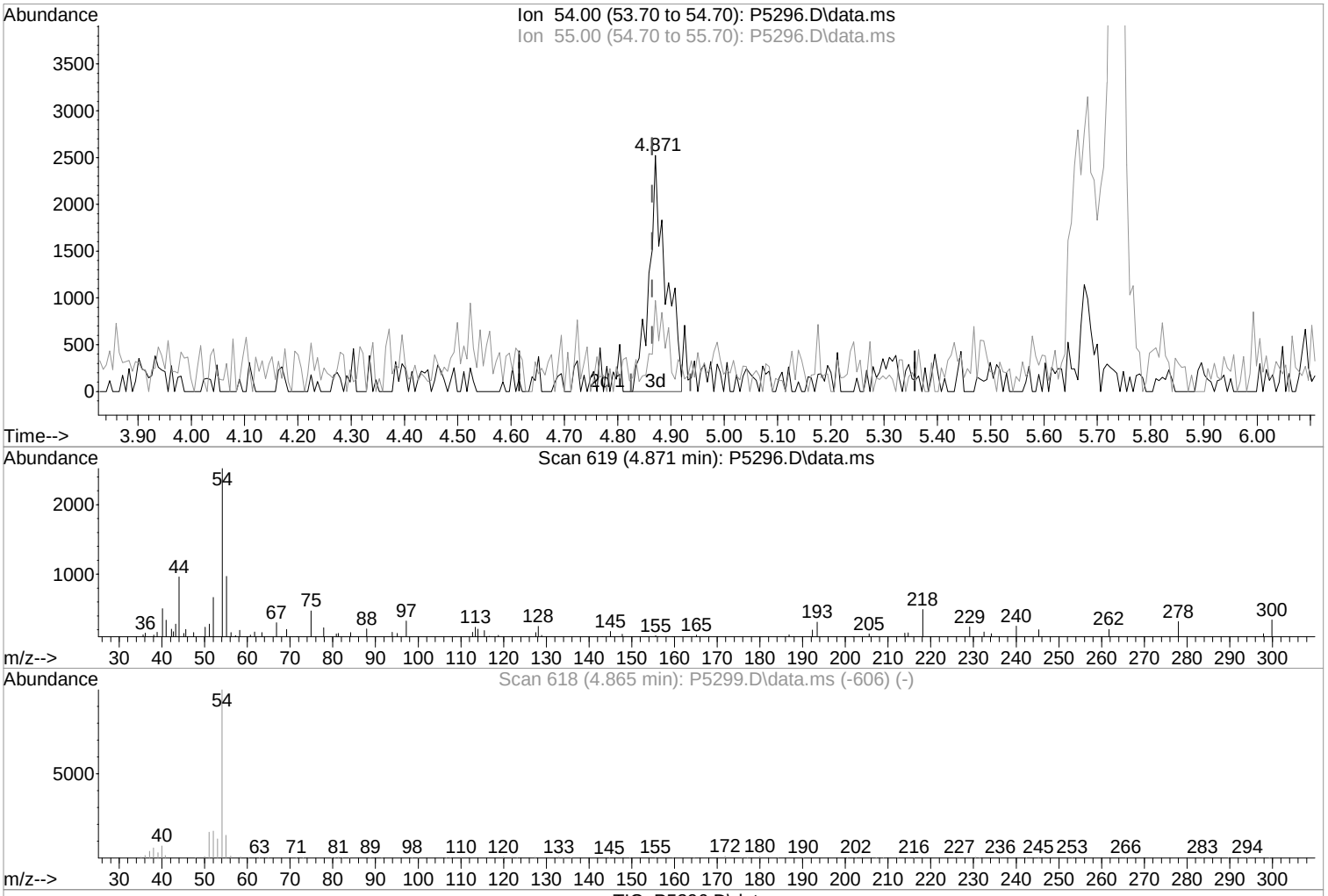
09/27/16

1st 09/27/16
2nd 09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(36) Propionitrile

4.871min (+0.006) 11.06 ppb m

response 5628

Ion	Exp%	Act%
54.00	100	100
55.00	14.70	38.45#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

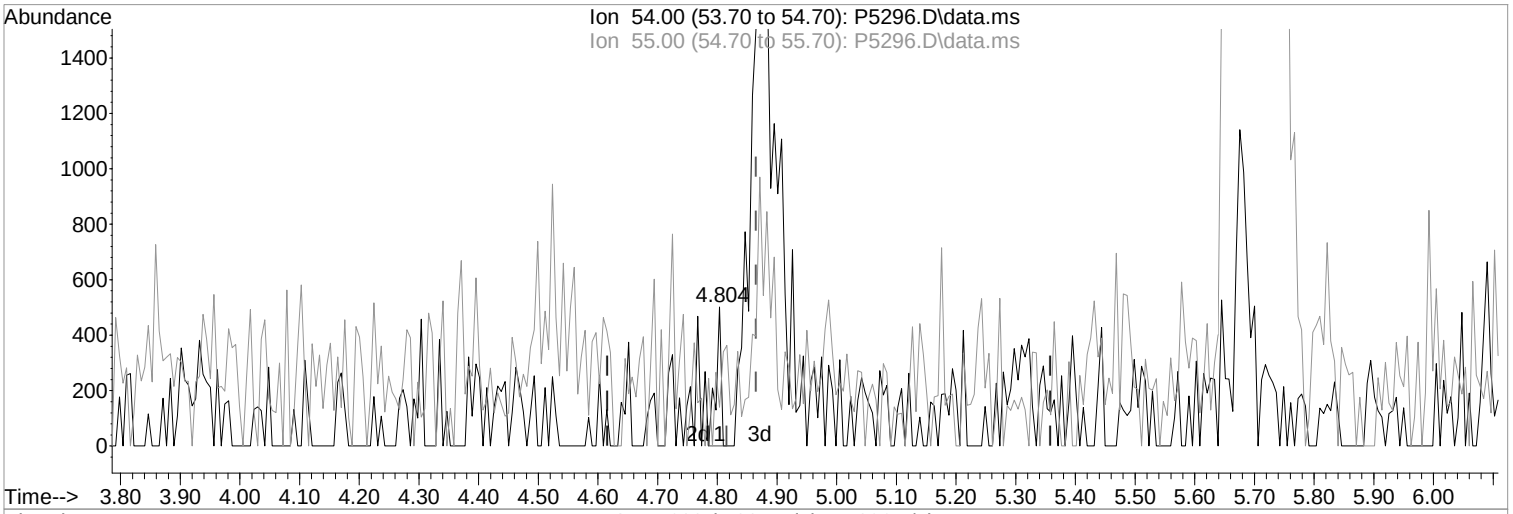
09/27/16

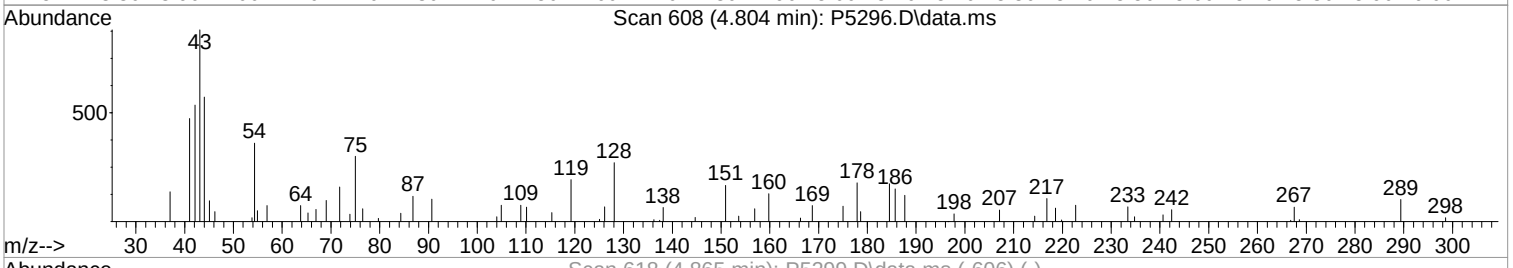
1st 09/27/16
2nd 09/27/16

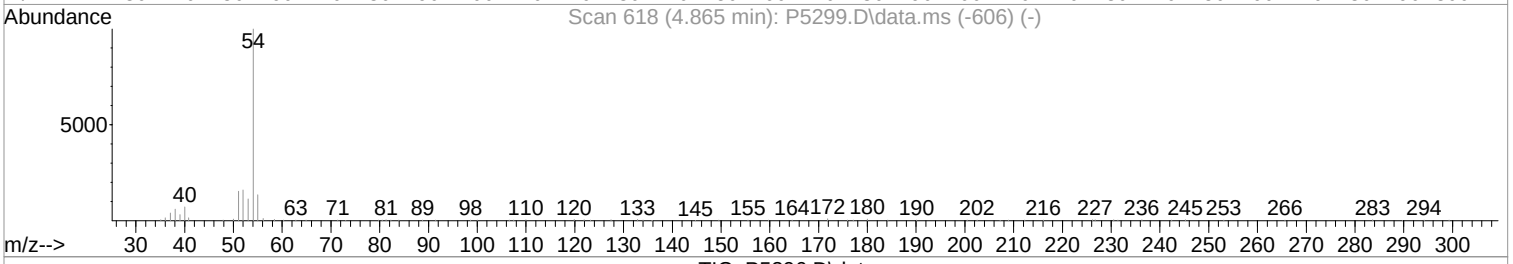
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(36) Propionitrile

4.804min (-0.061) 0.61 ppb

response 308

Ion	Exp%	Act%
54.00	100	100
55.00	14.70	27.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

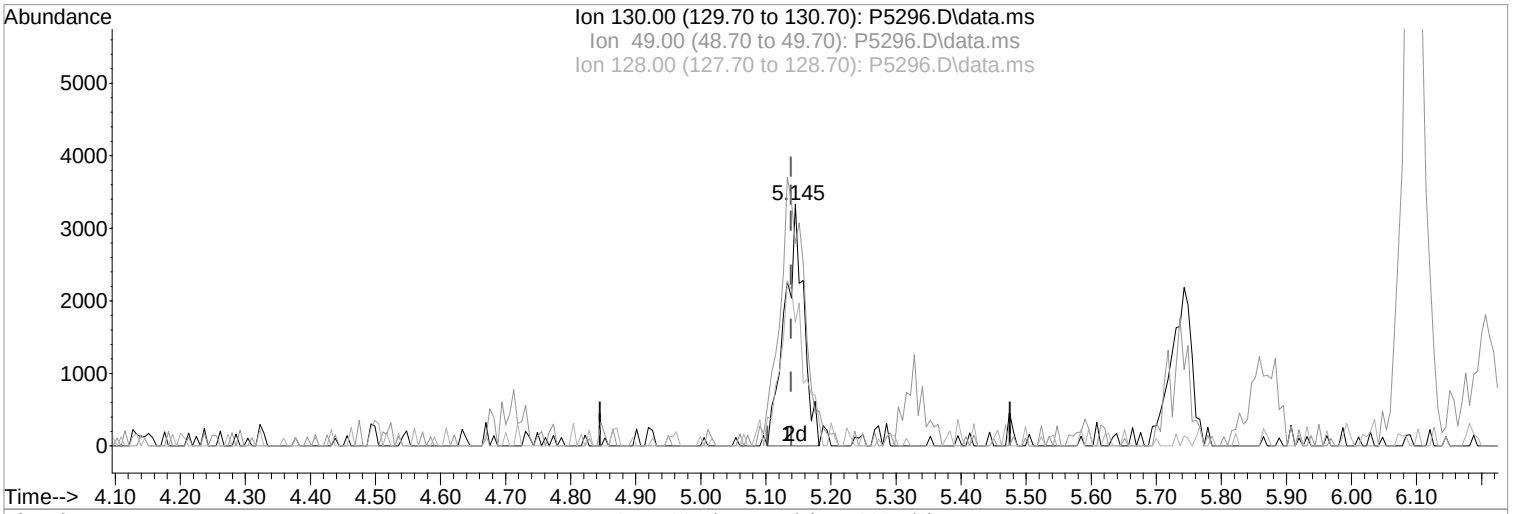
Before

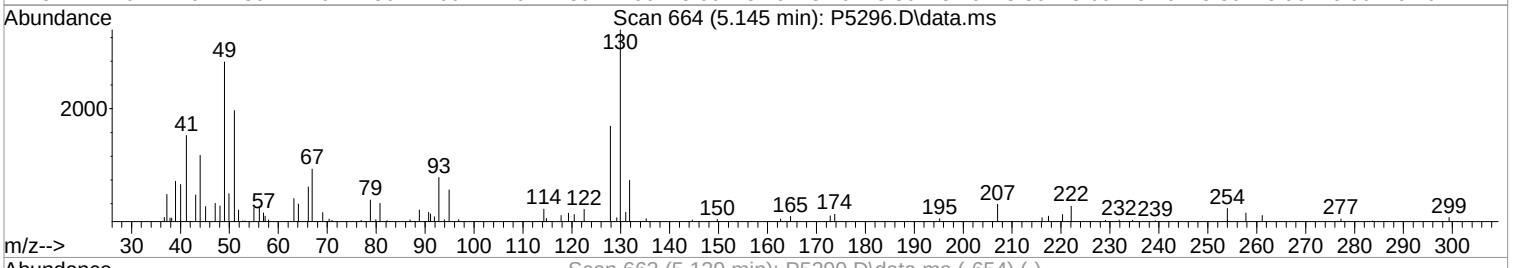
09/27/16

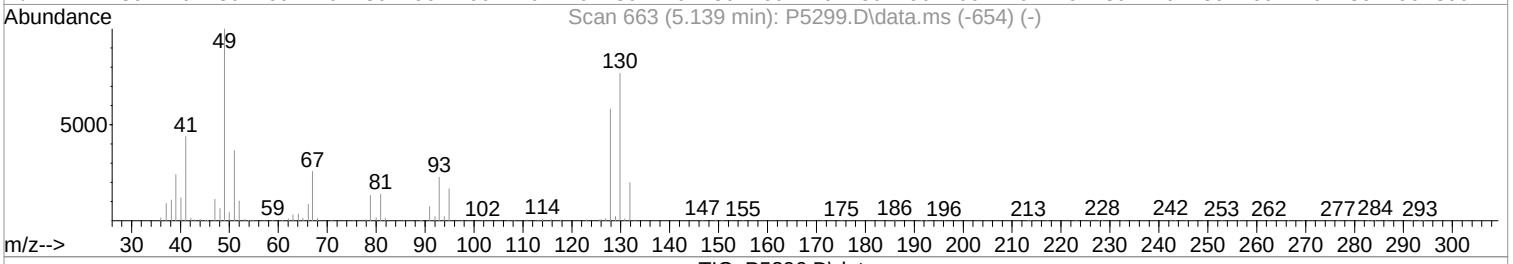
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(37) Bromochloromethane

5.145min (+0.006) 1.92 ppb m

response 6704

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	83.82#
128.00	75.90	51.19#
0.00	0.00	0.00

Manual Integration:

After

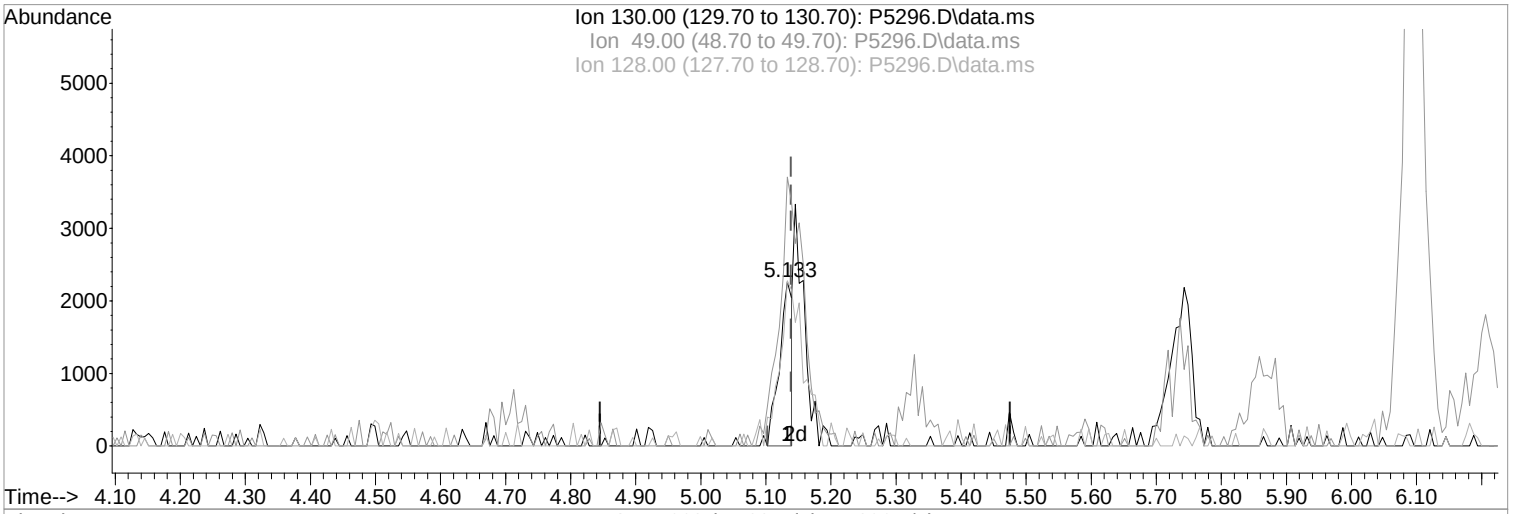
Split Peak

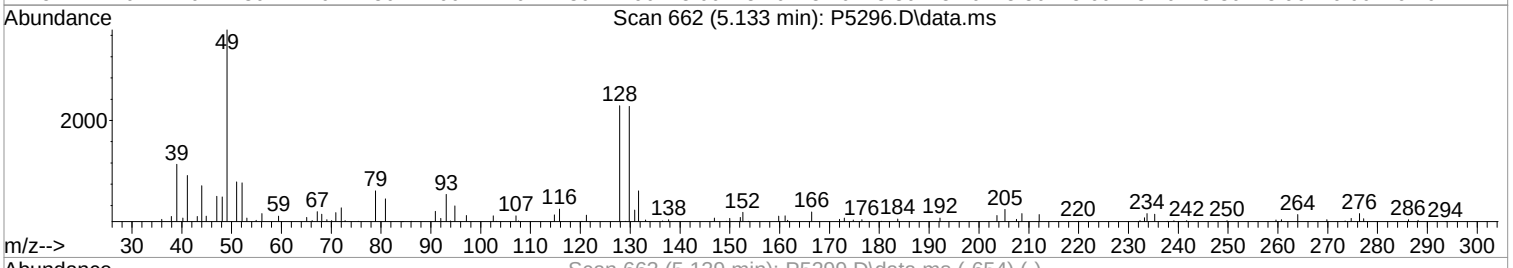
09/27/16

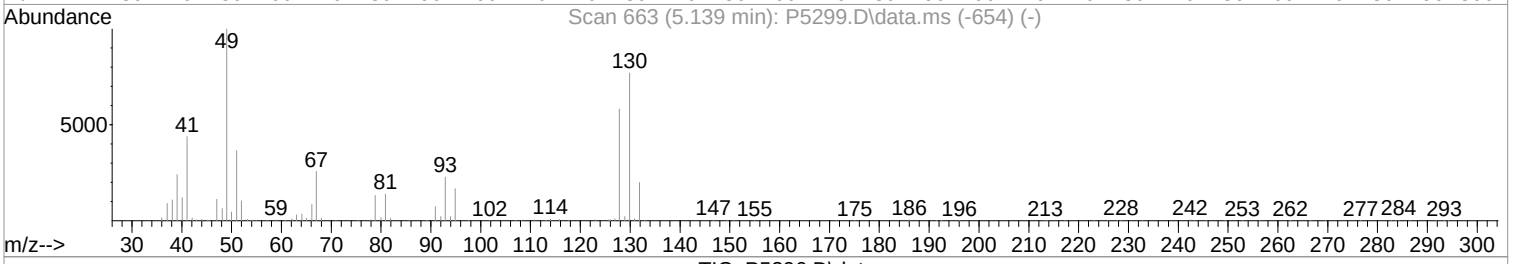
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(37) Bromochloromethane

5.133min (-0.006) 0.88 ppb

response 3074

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	163.81#
128.00	75.90	100.71#
0.00	0.00	0.00

Manual Integration:

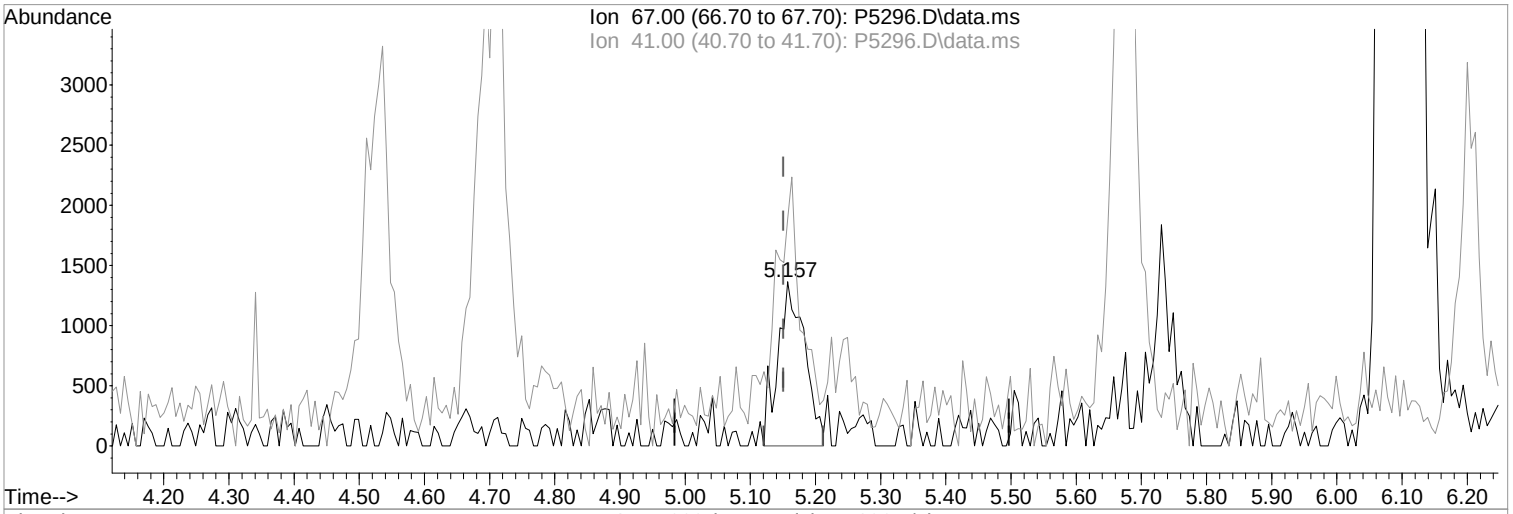
Before

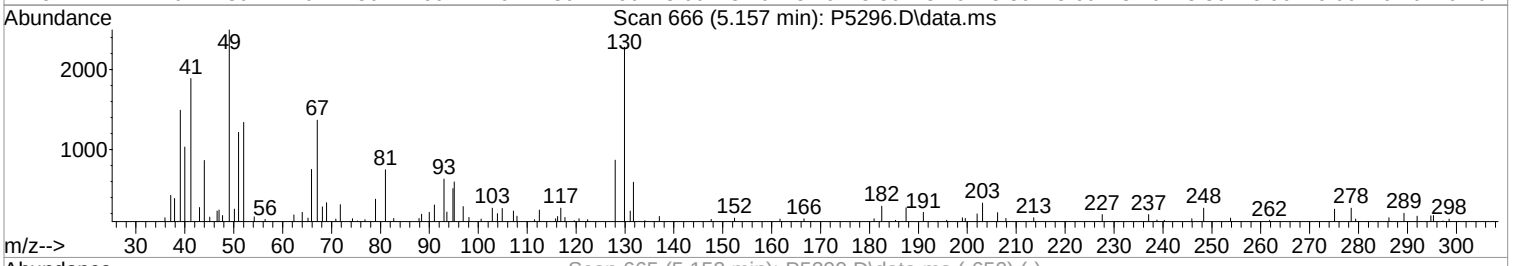
09/27/16

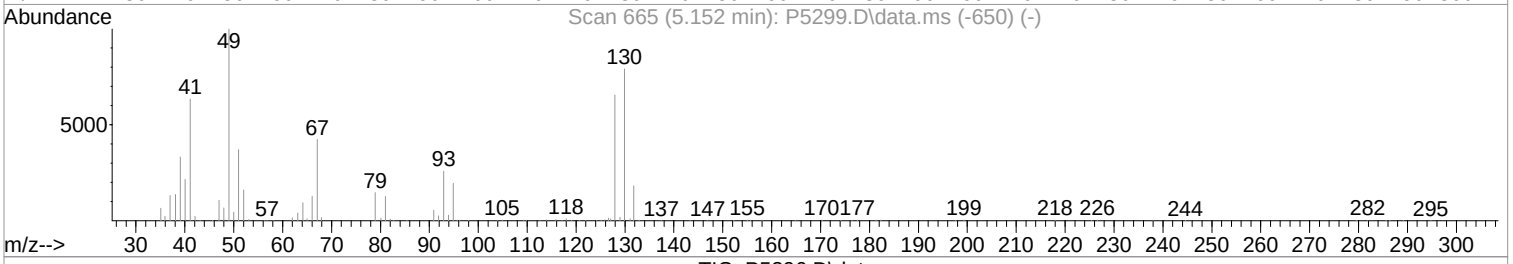
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(38) Methacrylonitrile

5.157min (+0.006) 2.28 ppb m

response 3918

Ion	Exp%	Act%
67.00	100	100
41.00	150.00	137.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

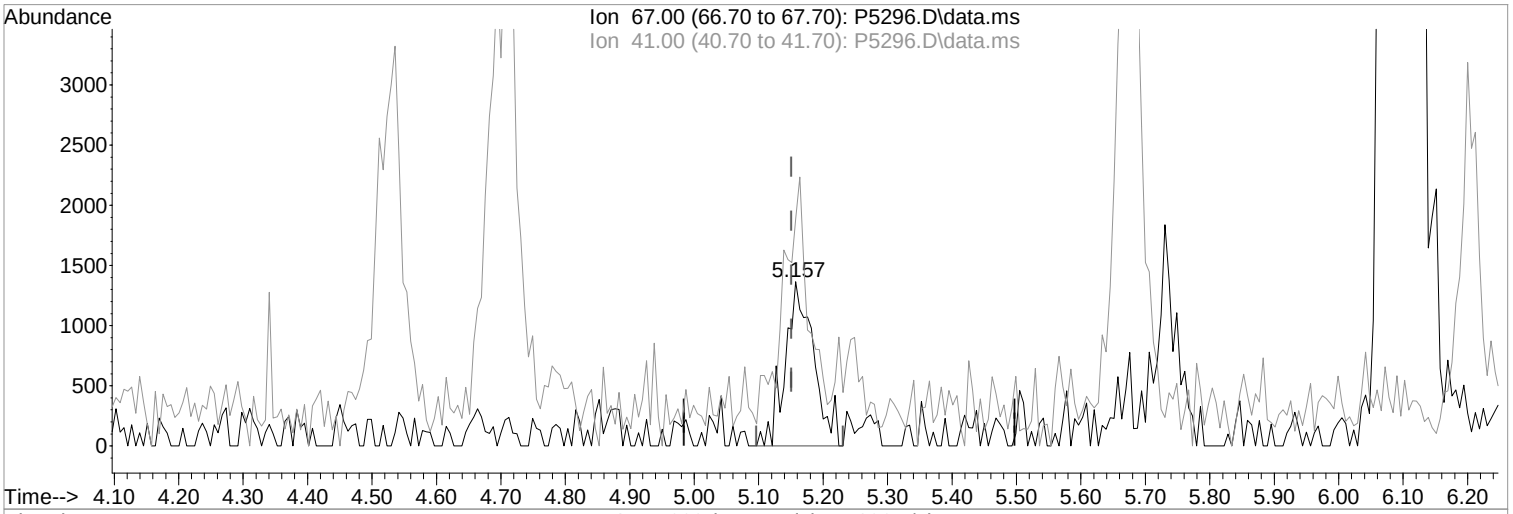
Poor integration.

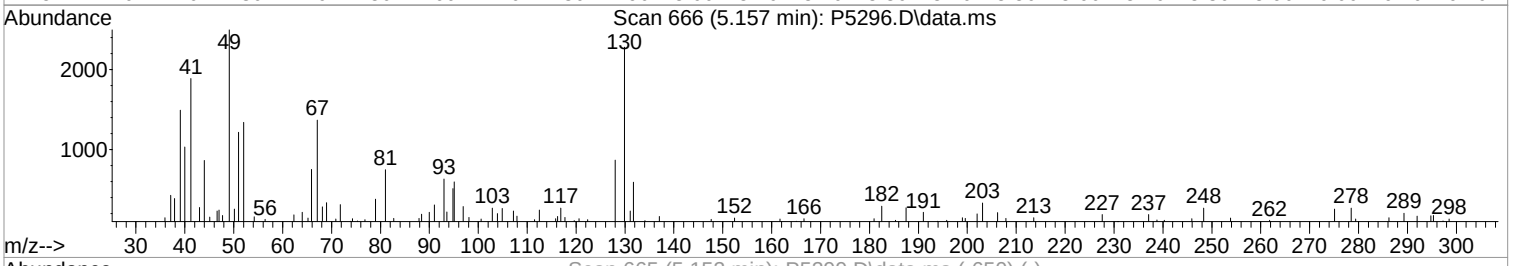
09/27/16

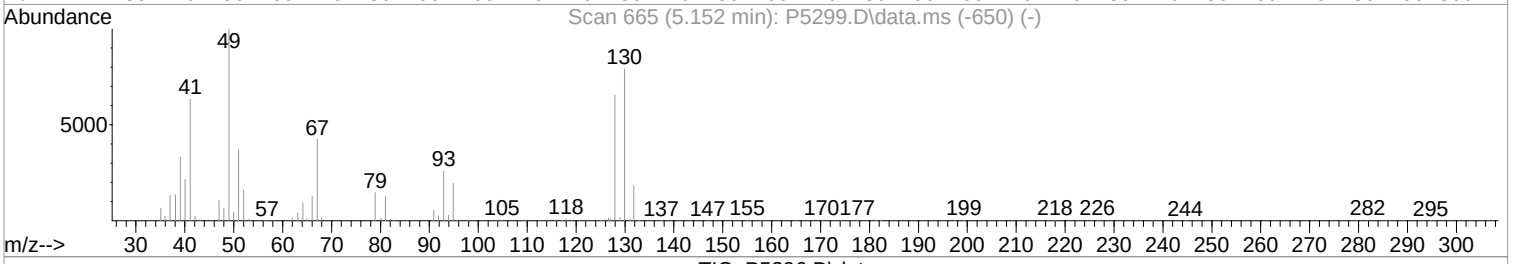
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(38) Methacrylonitrile

5.157min (+0.006) 2.44 ppb

response 4190

Ion	Exp%	Act%
67.00	100	100
41.00	150.00	137.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

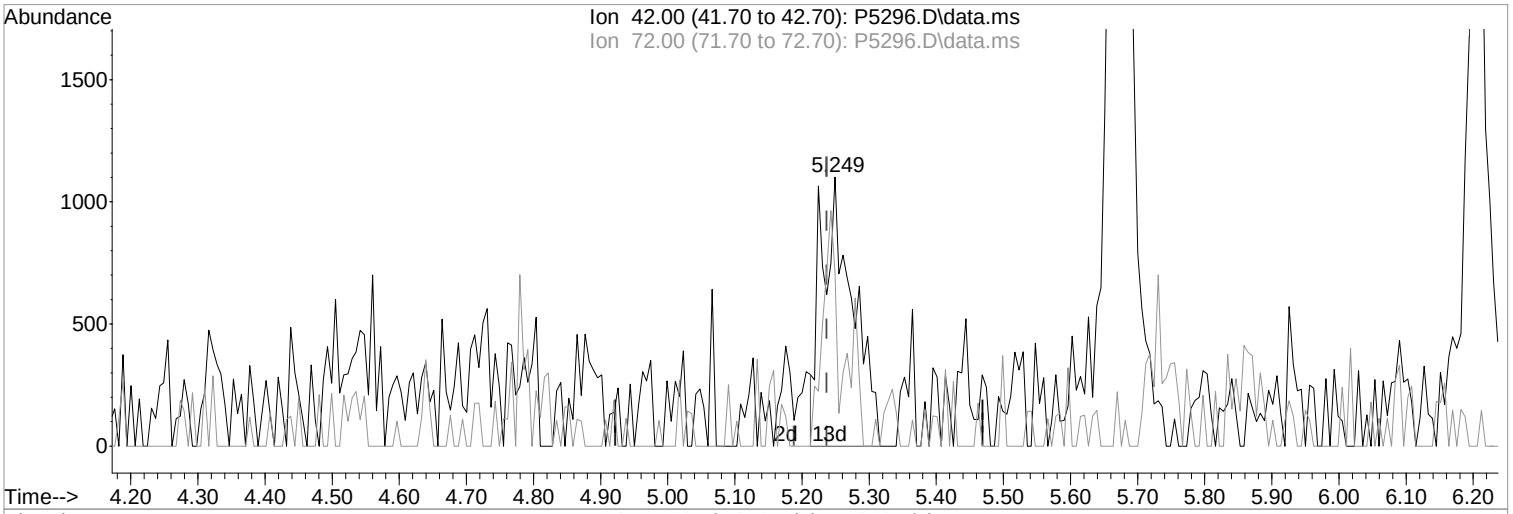
09/27/16

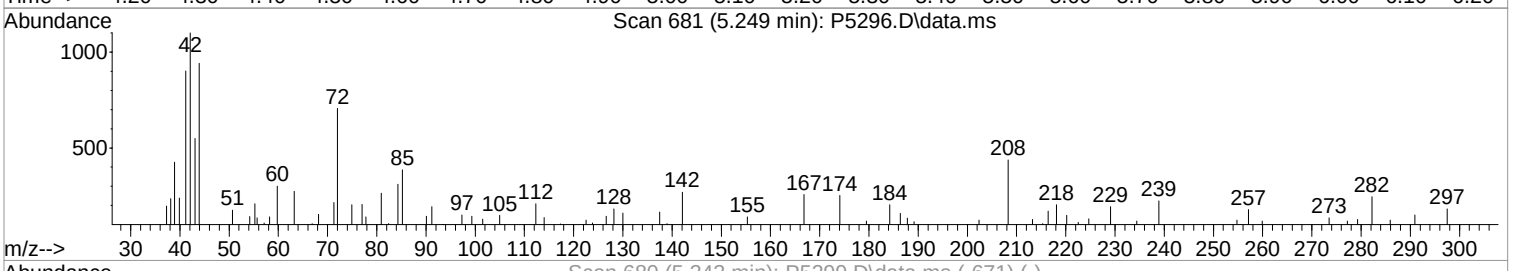
1st 09/27/16
2nd 09/27/16

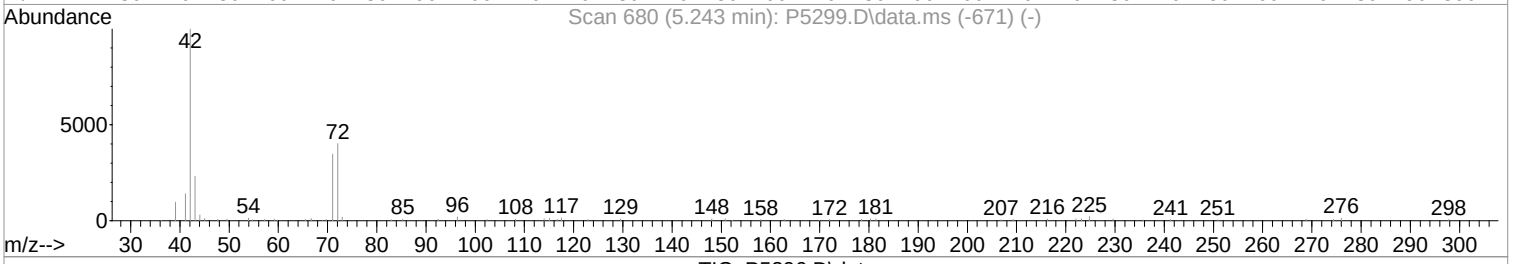
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(39) Tetrahydrofuran

5.249min (+0.012) 2.79 ppb m

response 3542

Ion	Exp%	Act%
42.00	100	100
72.00	39.70	64.21#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

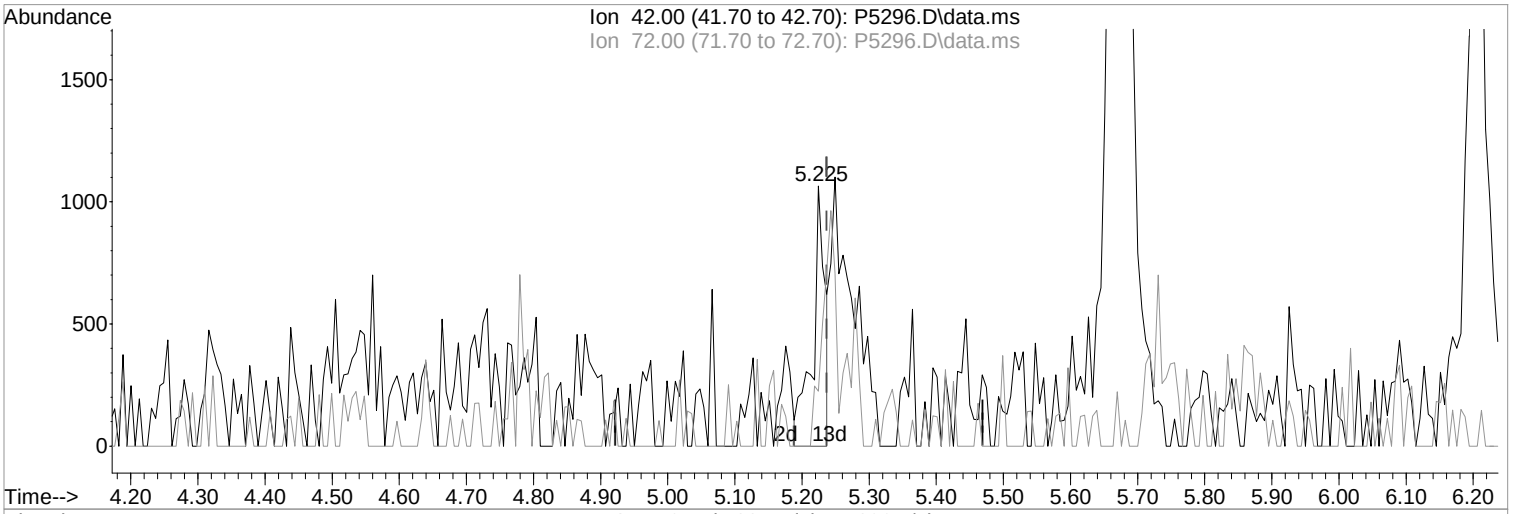
Poor integration.

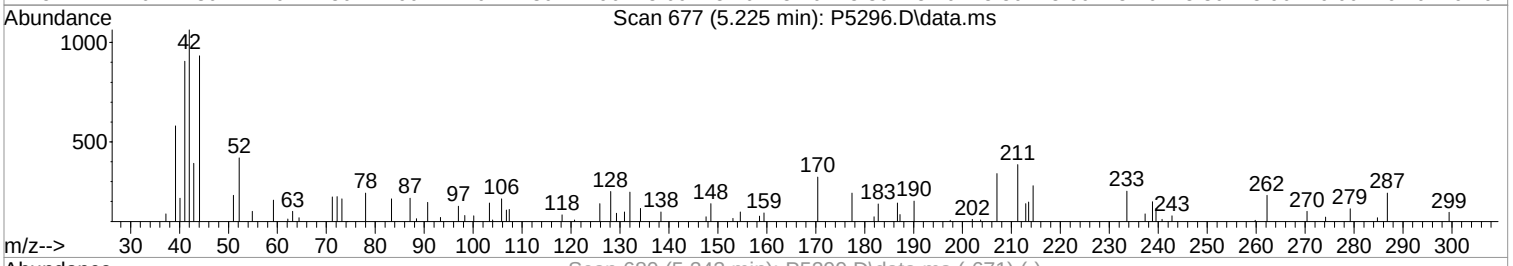
09/27/16

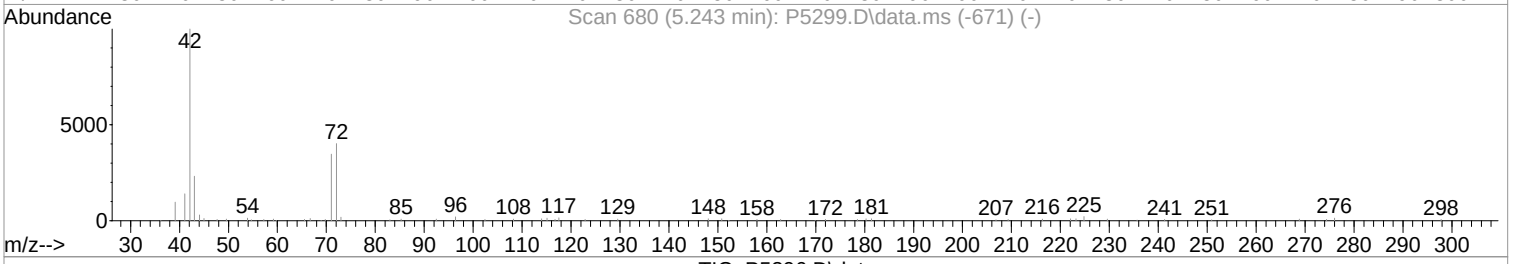
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(39) Tetrahydrofuran

5.225min (-0.012) 1.07 ppb

response 1355

Ion	Exp%	Act%
42.00	100	100
72.00	39.70	21.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

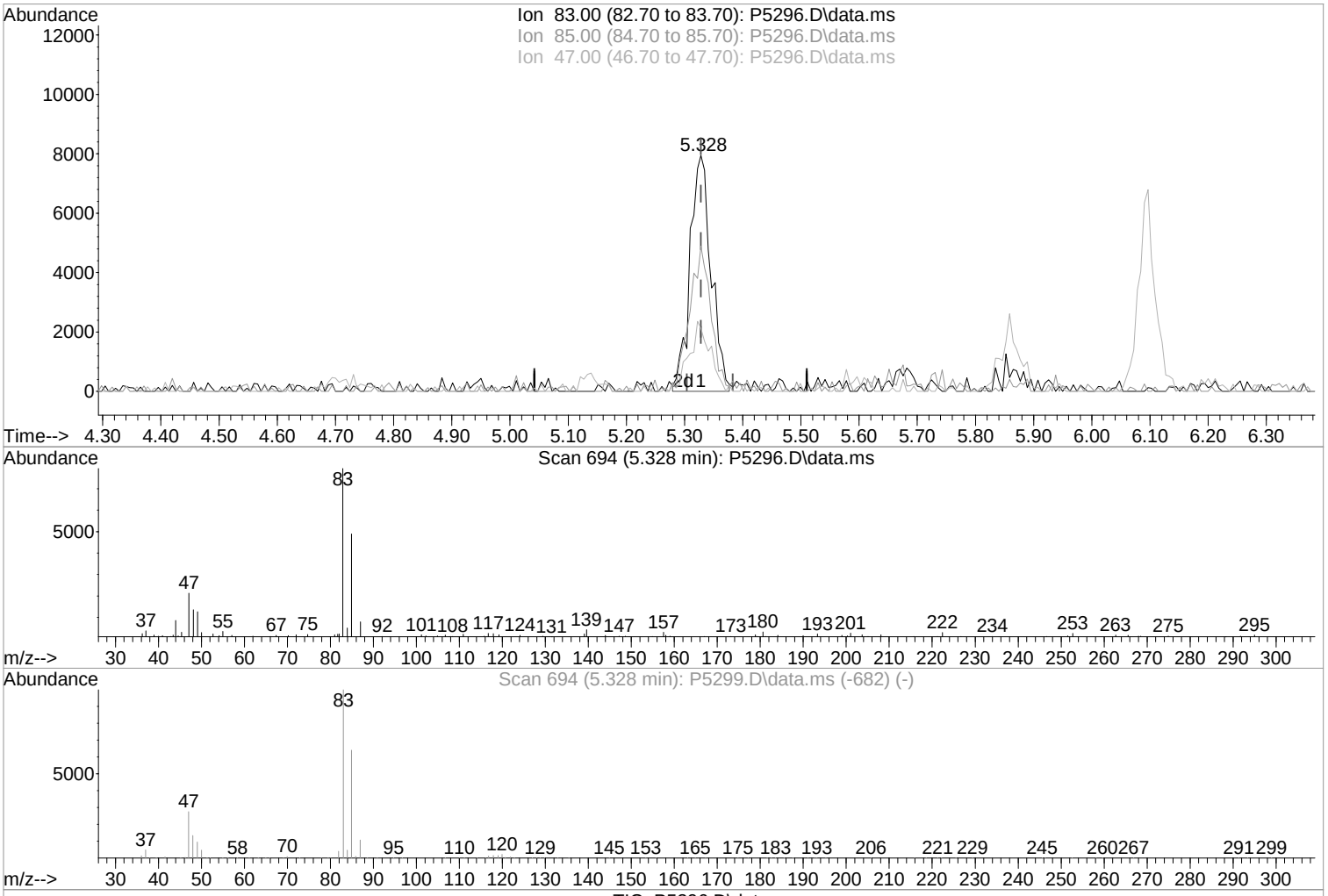
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 2.07 ppb m

response 19993

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	61.59
47.00	27.40	26.75
0.00	0.00	0.00

Manual Integration:

After

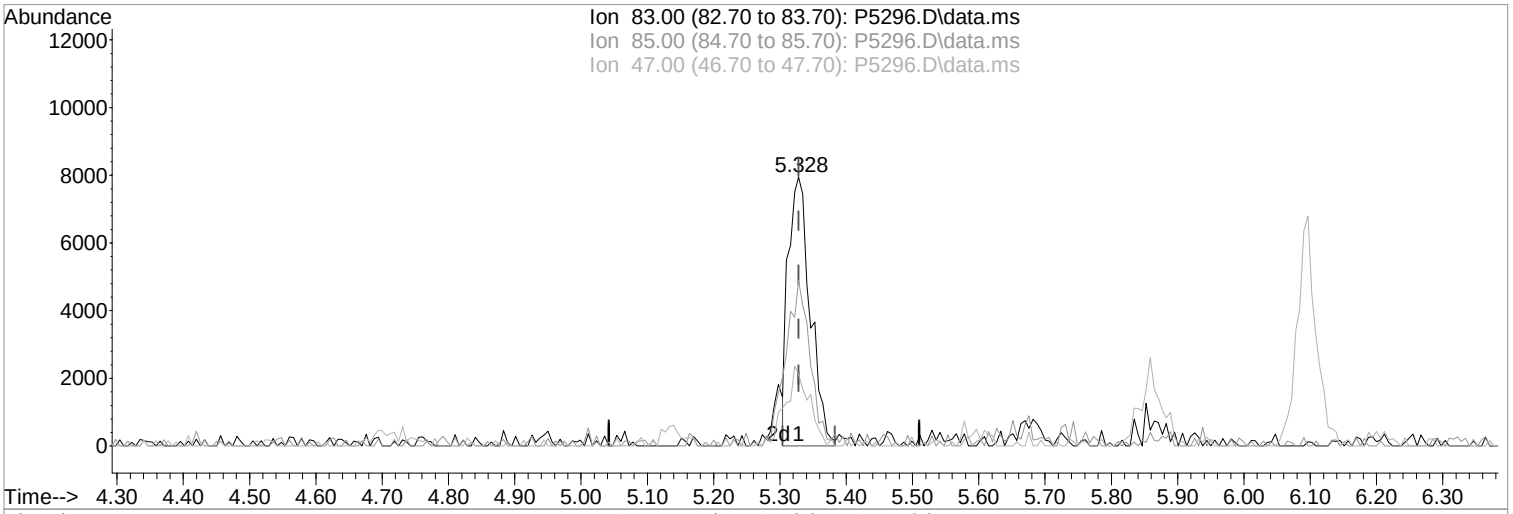
Split Peak

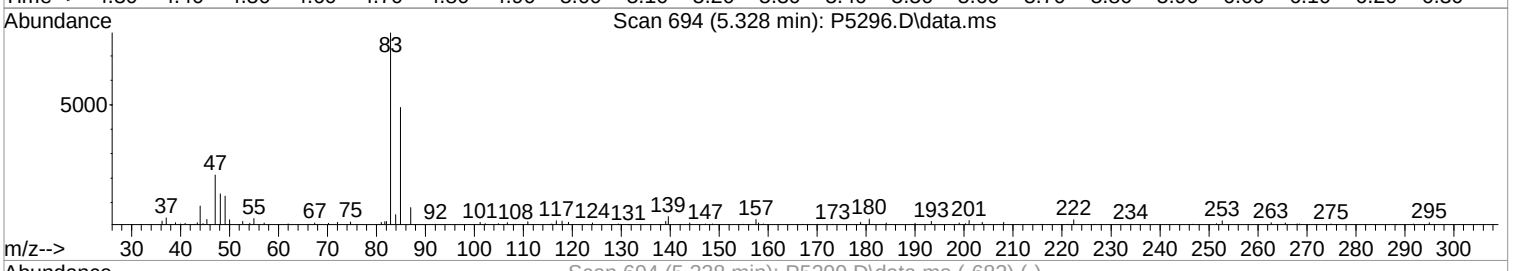
09/27/16

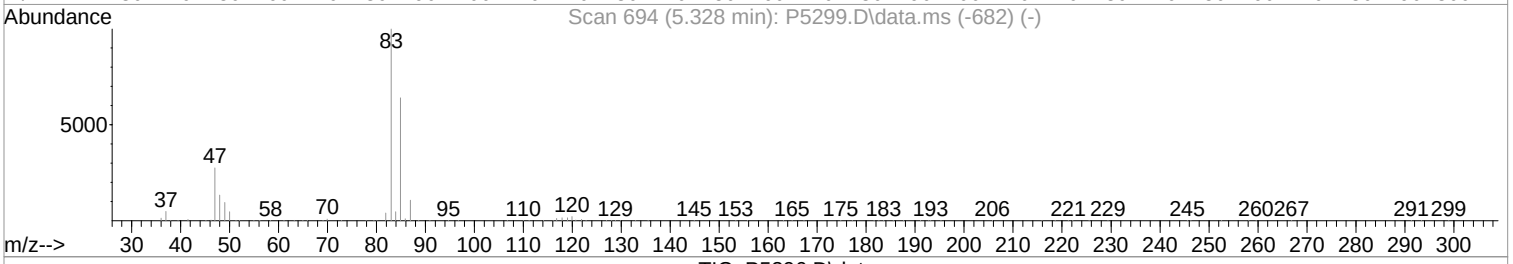
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 1.89 ppb

response 18262

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	61.59
47.00	27.40	26.75
0.00	0.00	0.00

Manual Integration:

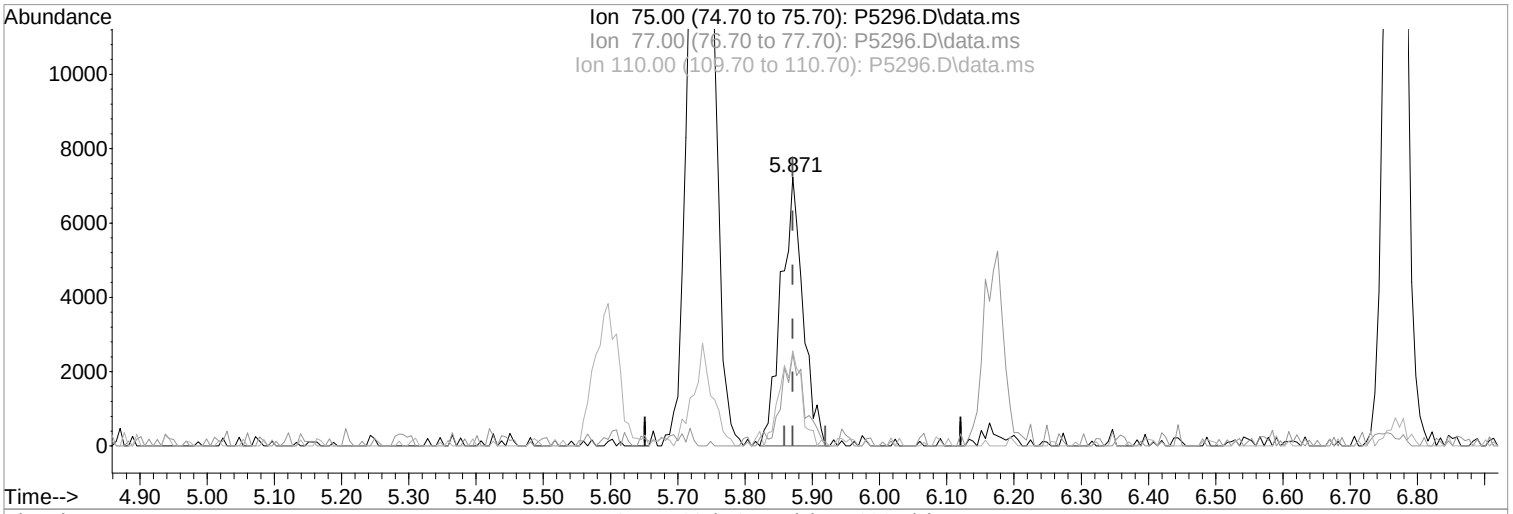
Before

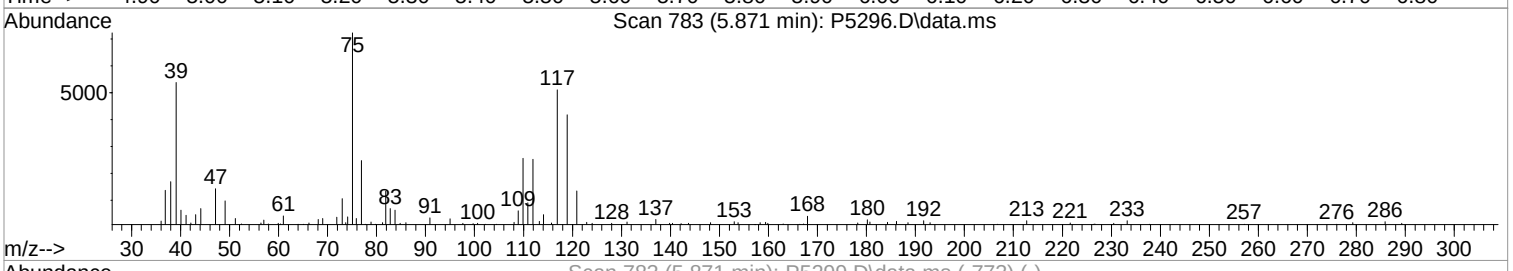
09/27/16

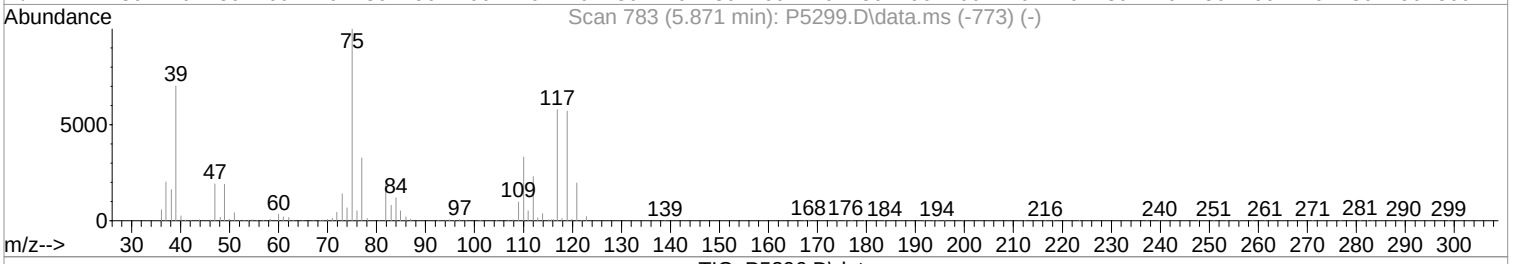
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(47) 1,1-Dichloropropene

5.871min (-0.000) 2.06 ppb m

response 16379

Ion	Exp%	Act%
75.00	100	100
77.00	32.60	34.28
110.00	33.30	35.39
0.00	0.00	0.00

Manual Integration:

After

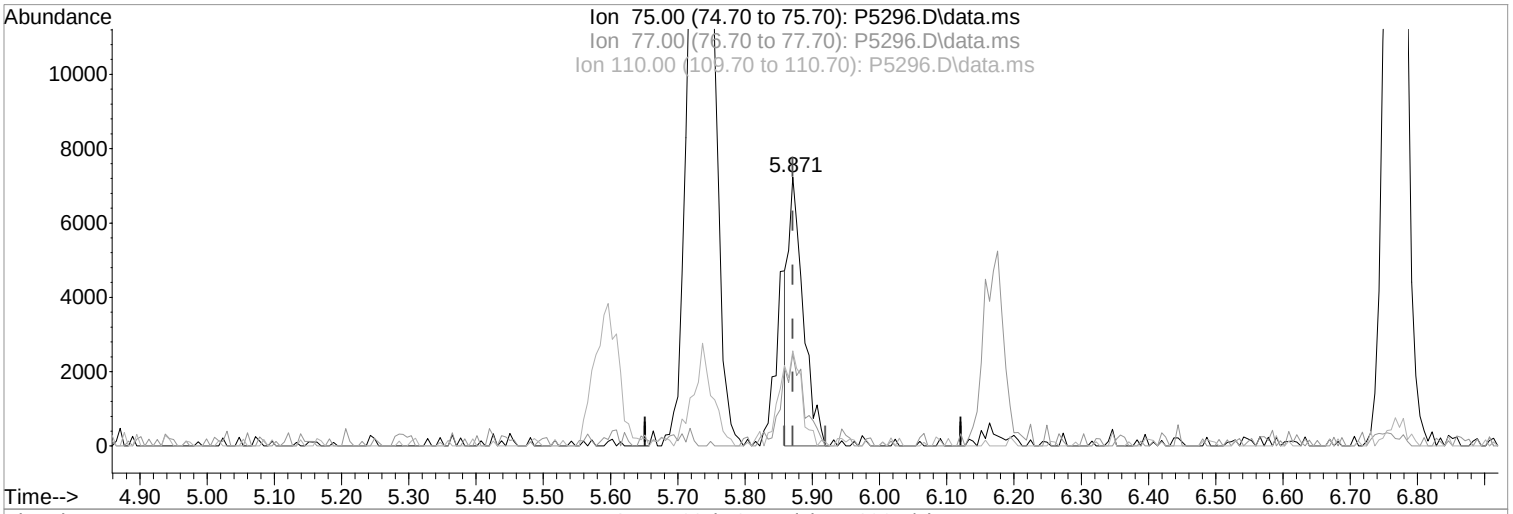
Split Peak

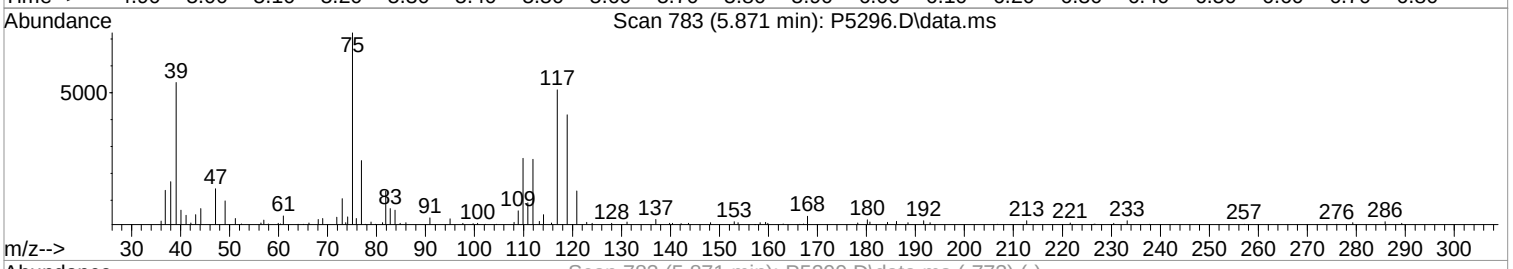
09/27/16

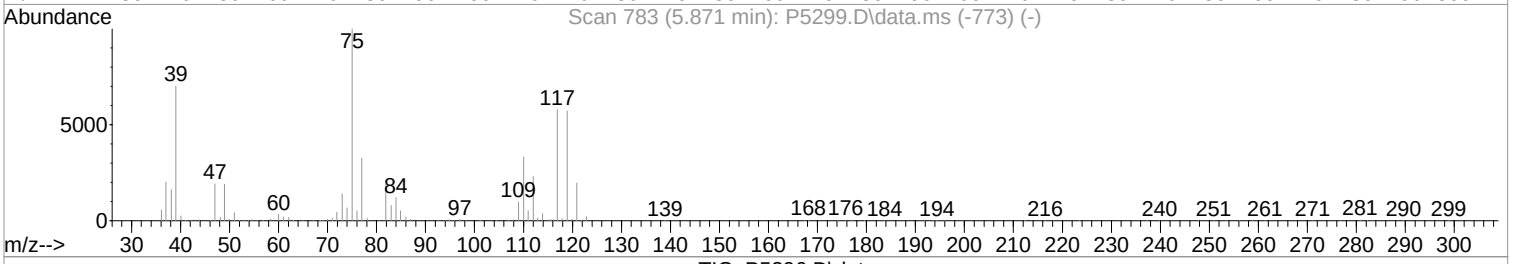
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(47) 1,1-Dichloropropene

5.871min (-0.000) 1.41 ppb

response 11186

Ion	Exp%	Act%
75.00	100	100
77.00	32.60	35.76
110.00	33.30	35.39
0.00	0.00	0.00

Manual Integration:

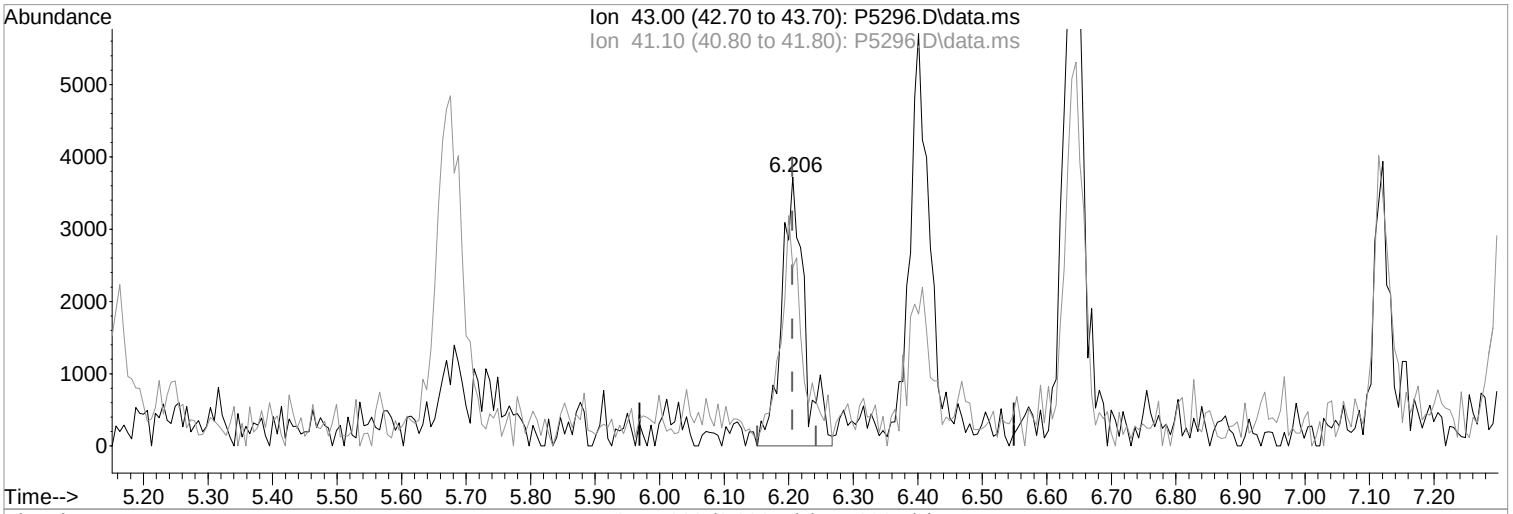
Before

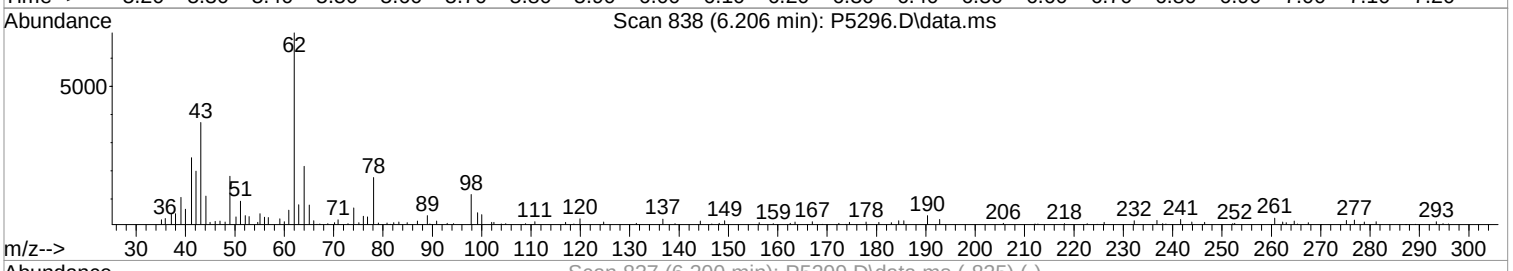
09/27/16

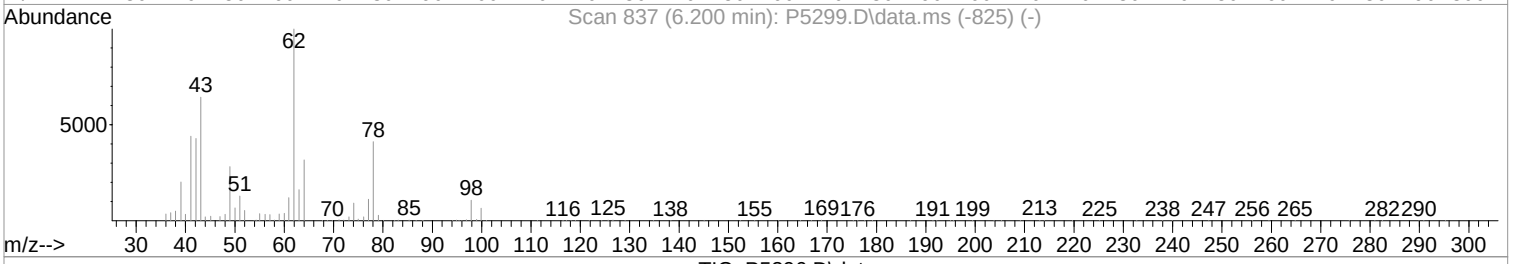
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(51) Iso-Butyl Alcohol

6.206min (+0.000) 48.75 ppb m

response 9218

Ion	Exp%	Act%
43.00	100	100
41.10	68.30	66.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

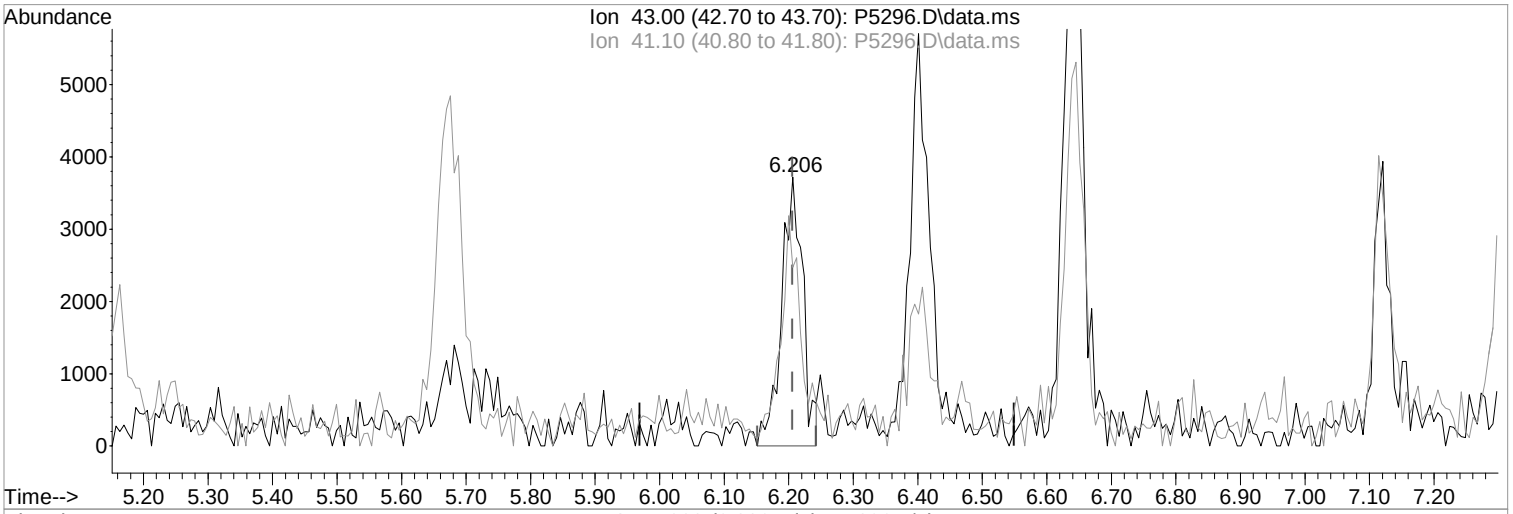
Split Peak

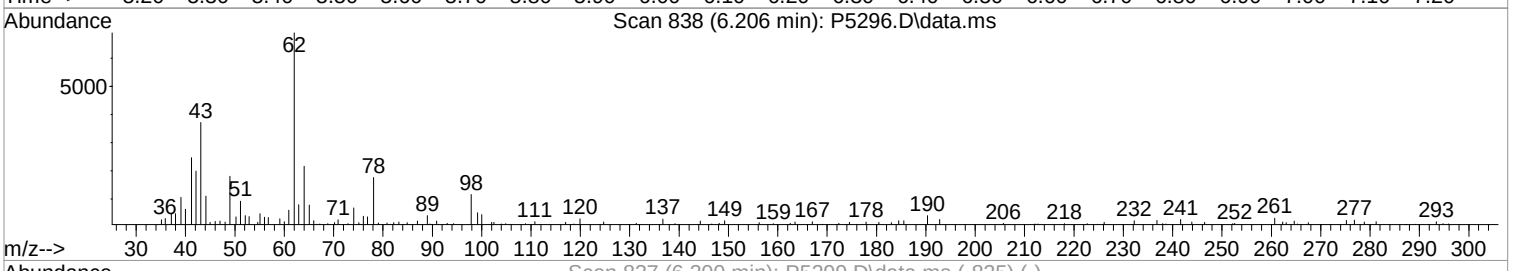
09/27/16

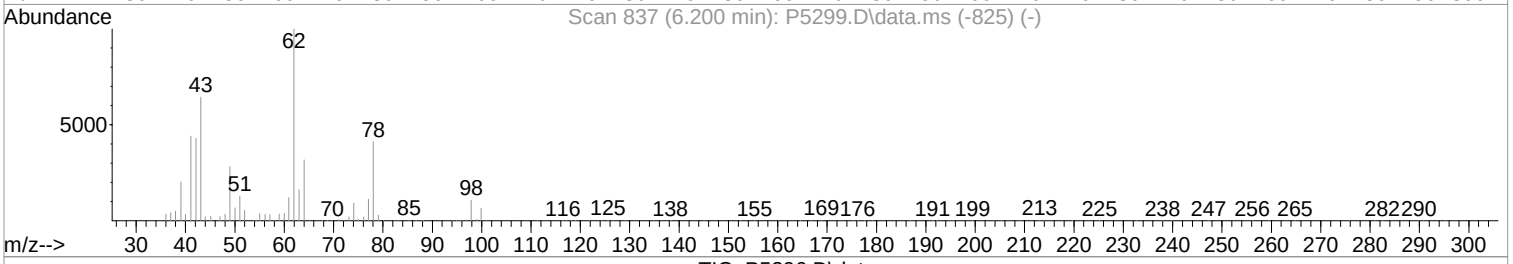
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(51) Iso-Butyl Alcohol

6.206min (+0.000) 45.16 ppb

response 8539

Ion	Exp%	Act%
43.00	100	100
41.10	68.30	66.49
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

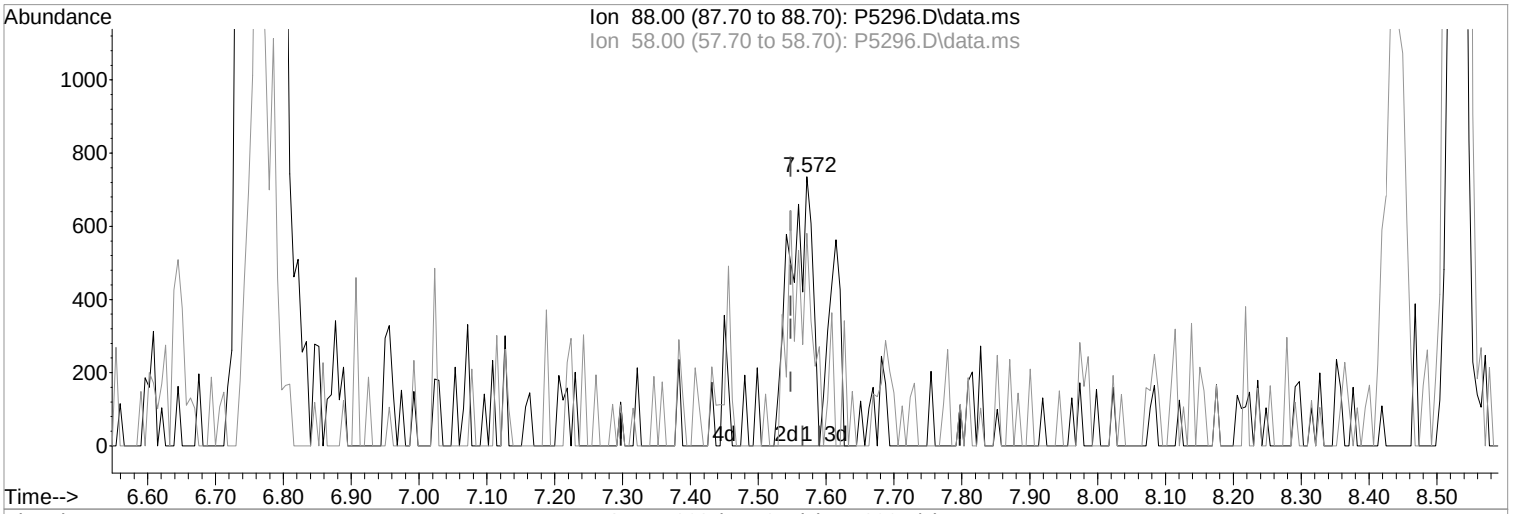
Before

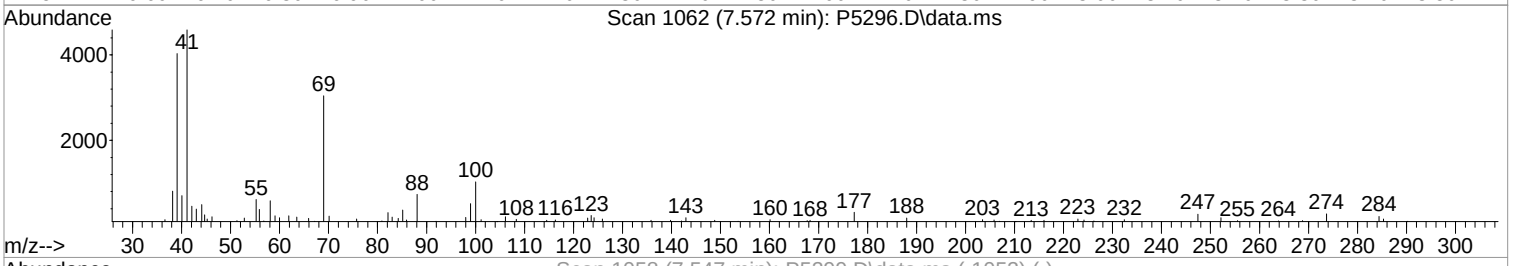
09/27/16

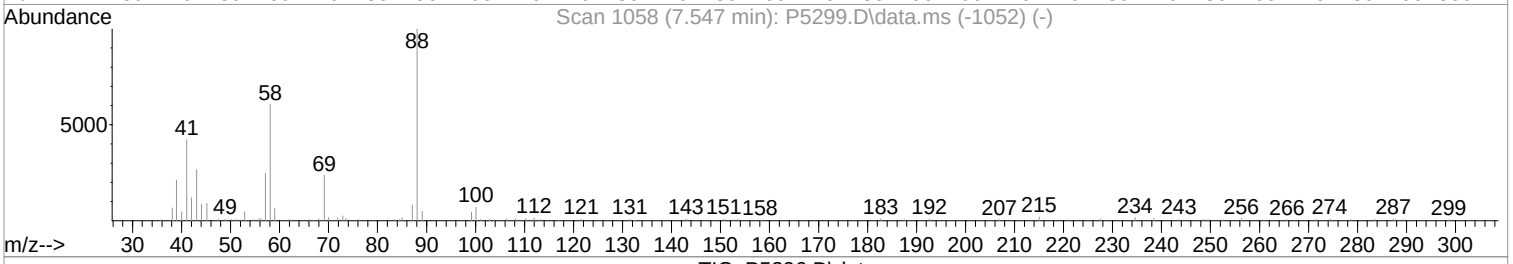
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(58) 1,4-Dioxane

7.572min (+0.024) 52.28 ppb m

response 2414

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	79.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

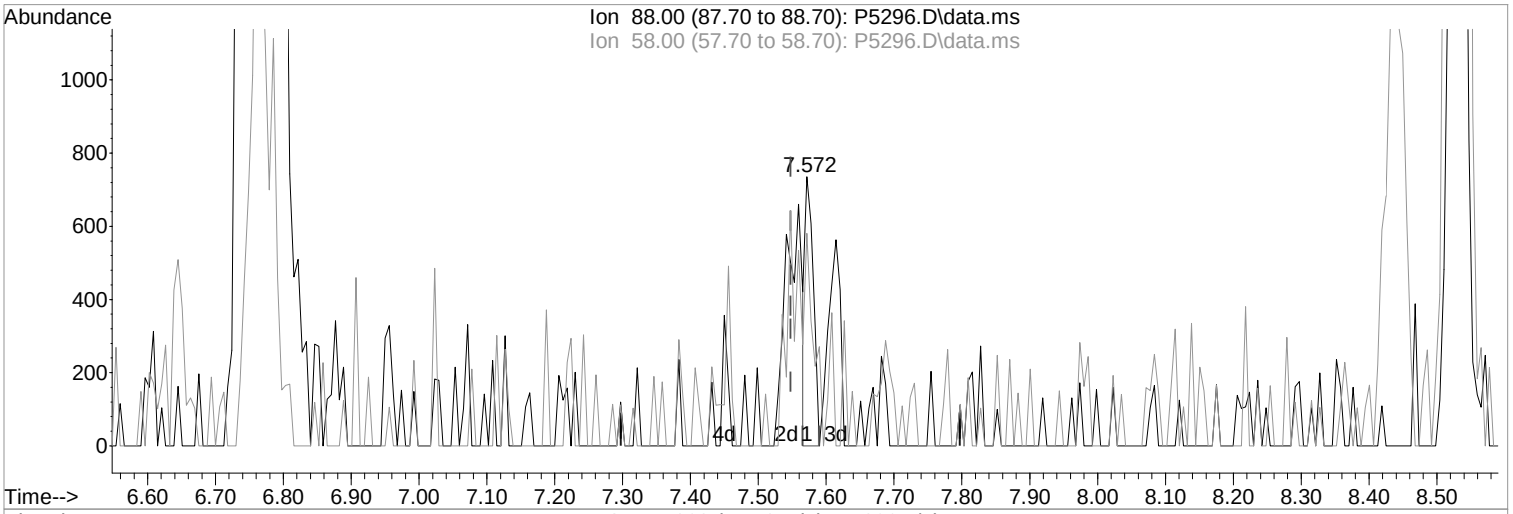
09/27/16

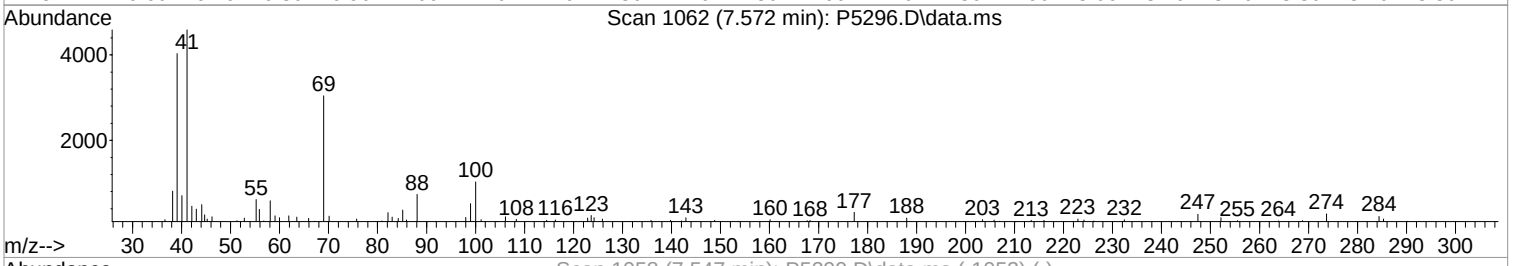
1st 09/27/16
2nd 09/27/16

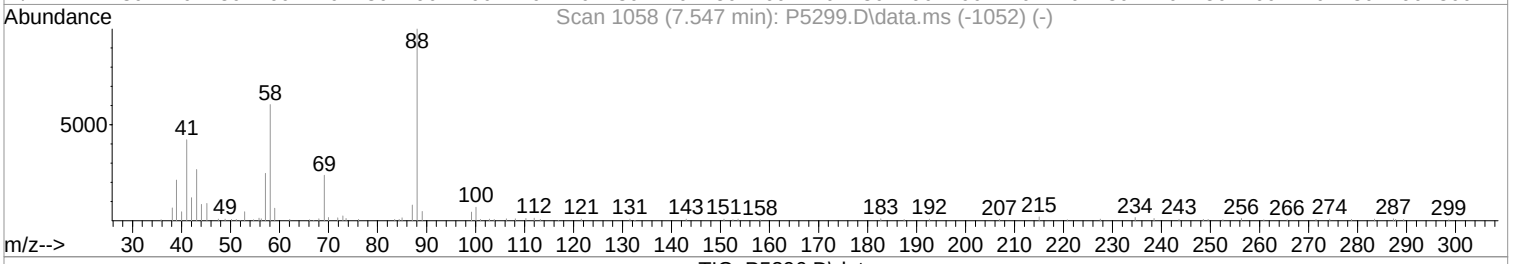
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(58) 1,4-Dioxane

7.572min (+0.024) 13.21 ppb

response 610

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	79.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

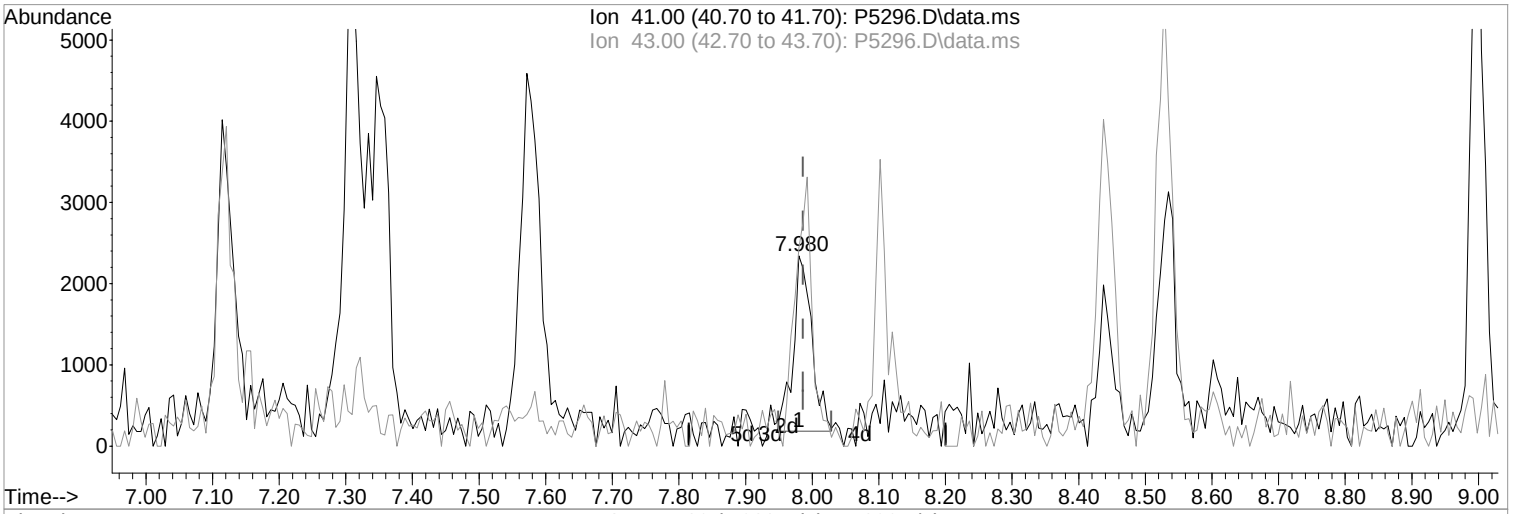
09/27/16

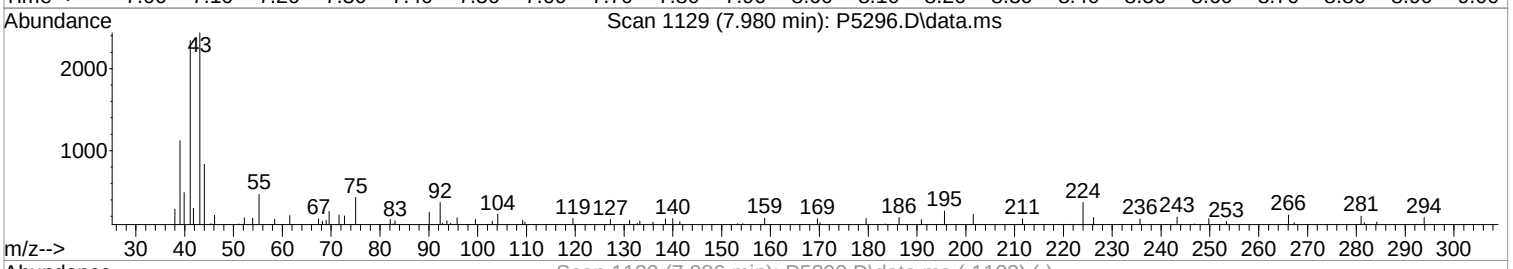
1st 09/27/16
2nd 09/27/16

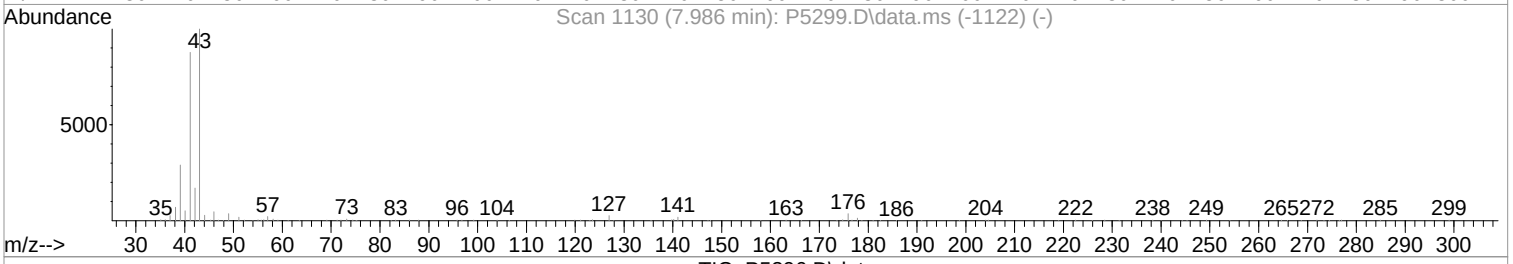
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(61) 2-Nitropropane

7.980min (-0.006) 3.70 ppb m

response 4171

Ion	Exp%	Act%
41.00	100	100
43.00	113.60	104.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

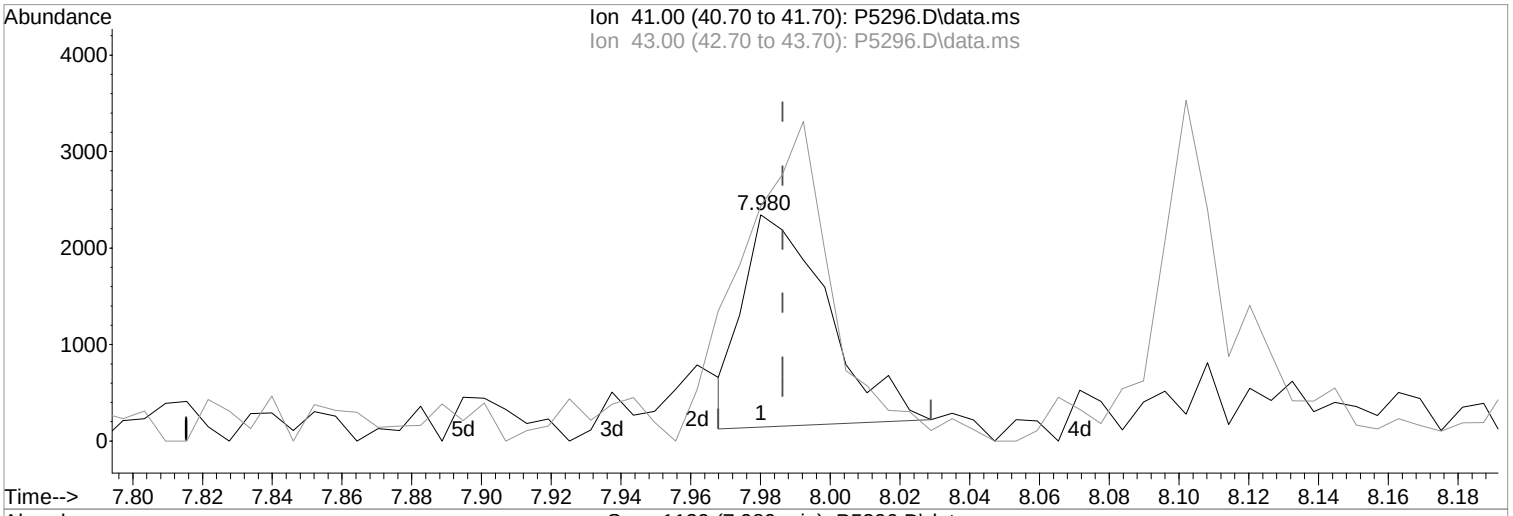
Split Peak

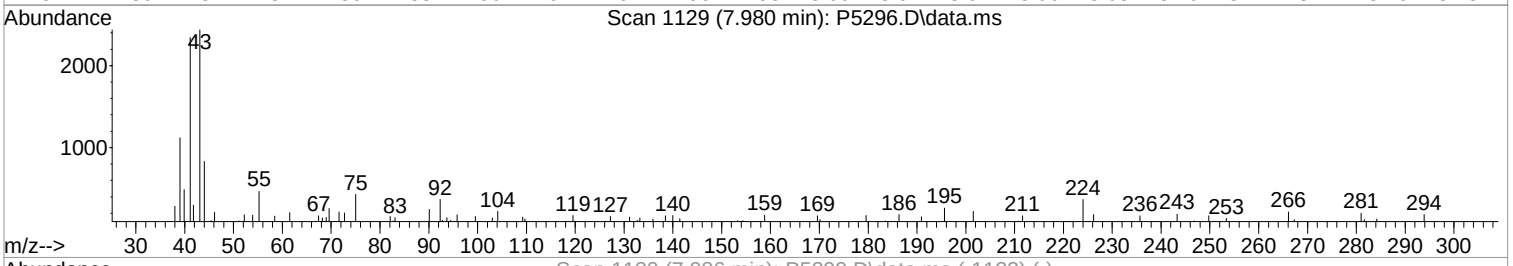
09/27/16

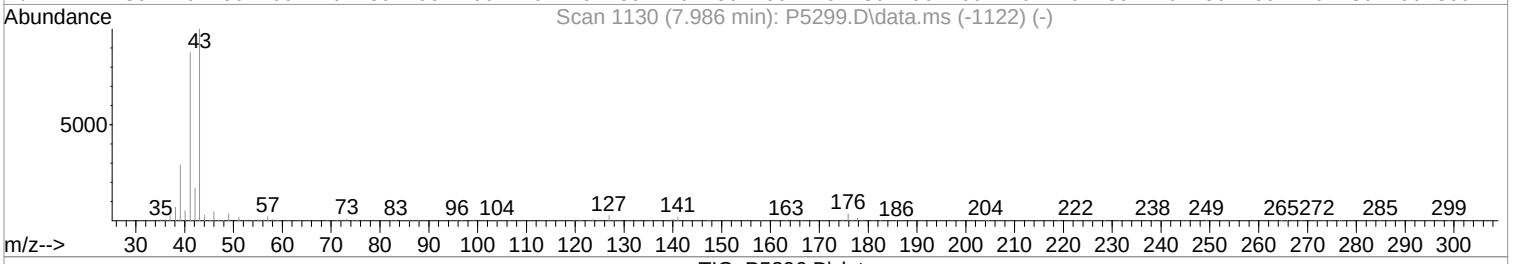
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(61) 2-Nitropropane

7.980min (-0.006) 3.28 ppb

response 3695

Ion	Exp%	Act%
41.00	100	100
43.00	113.60	104.01
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

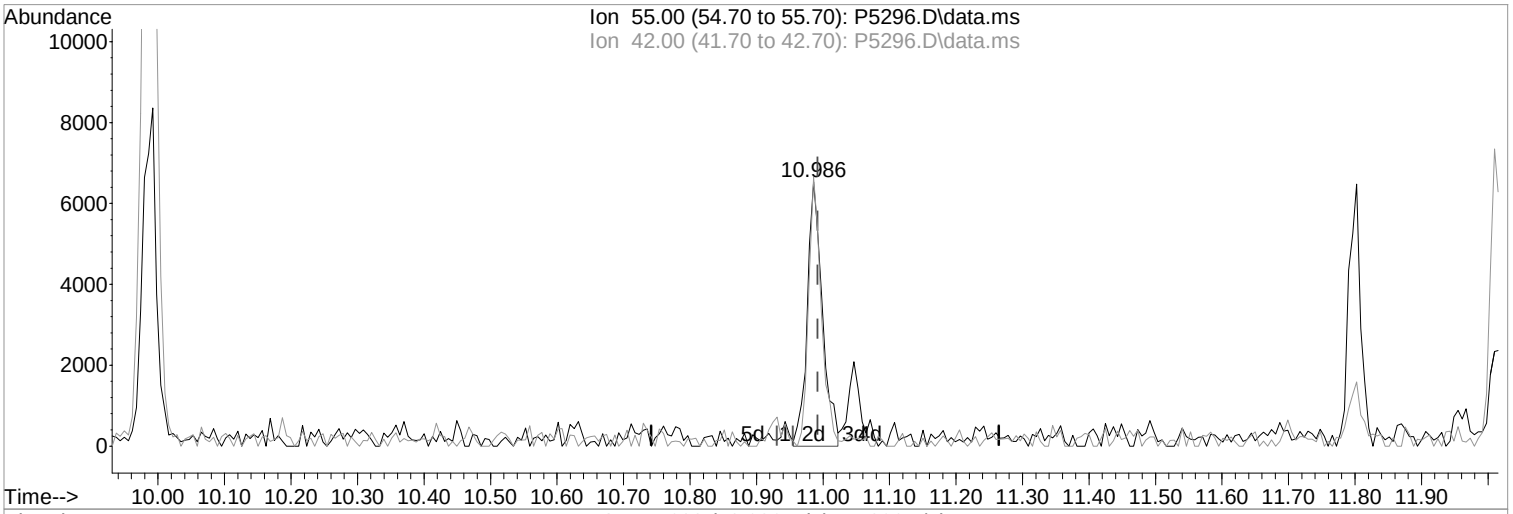
Before

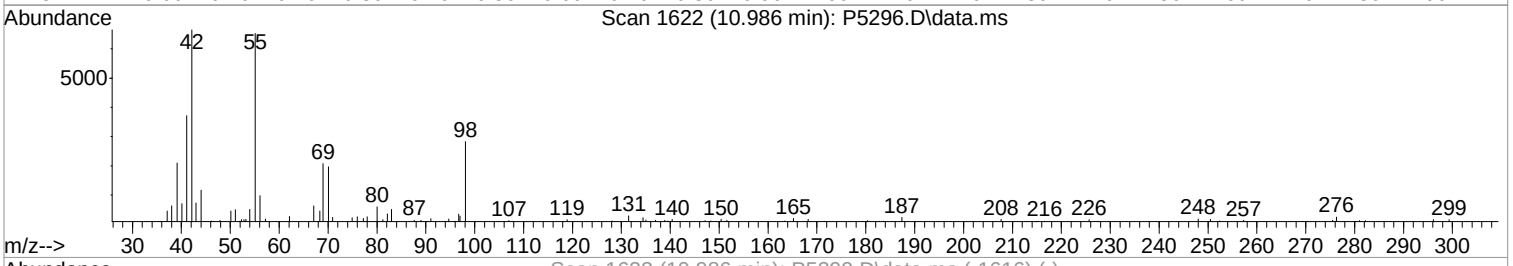
09/27/16

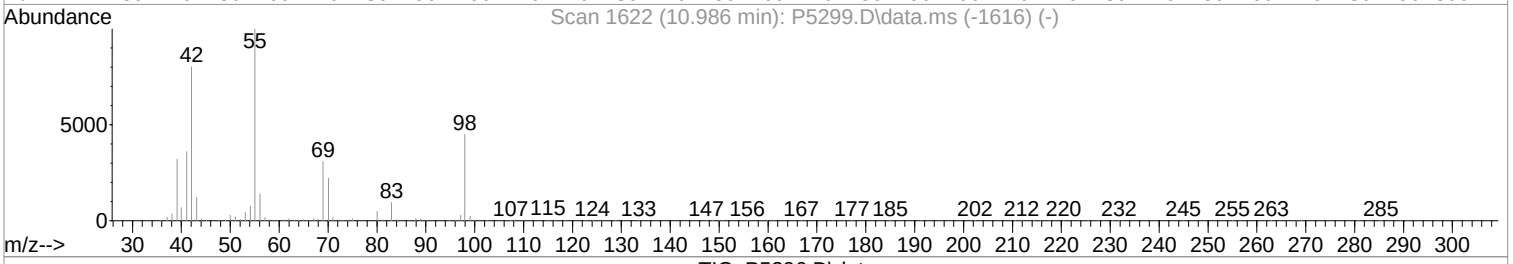
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(90) Cyclohexanone

10.986min (-0.006) 38.56 ppb m

response 10385

Ion	Exp%	Act%
55.00	100	100
42.00	80.20	101.88#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

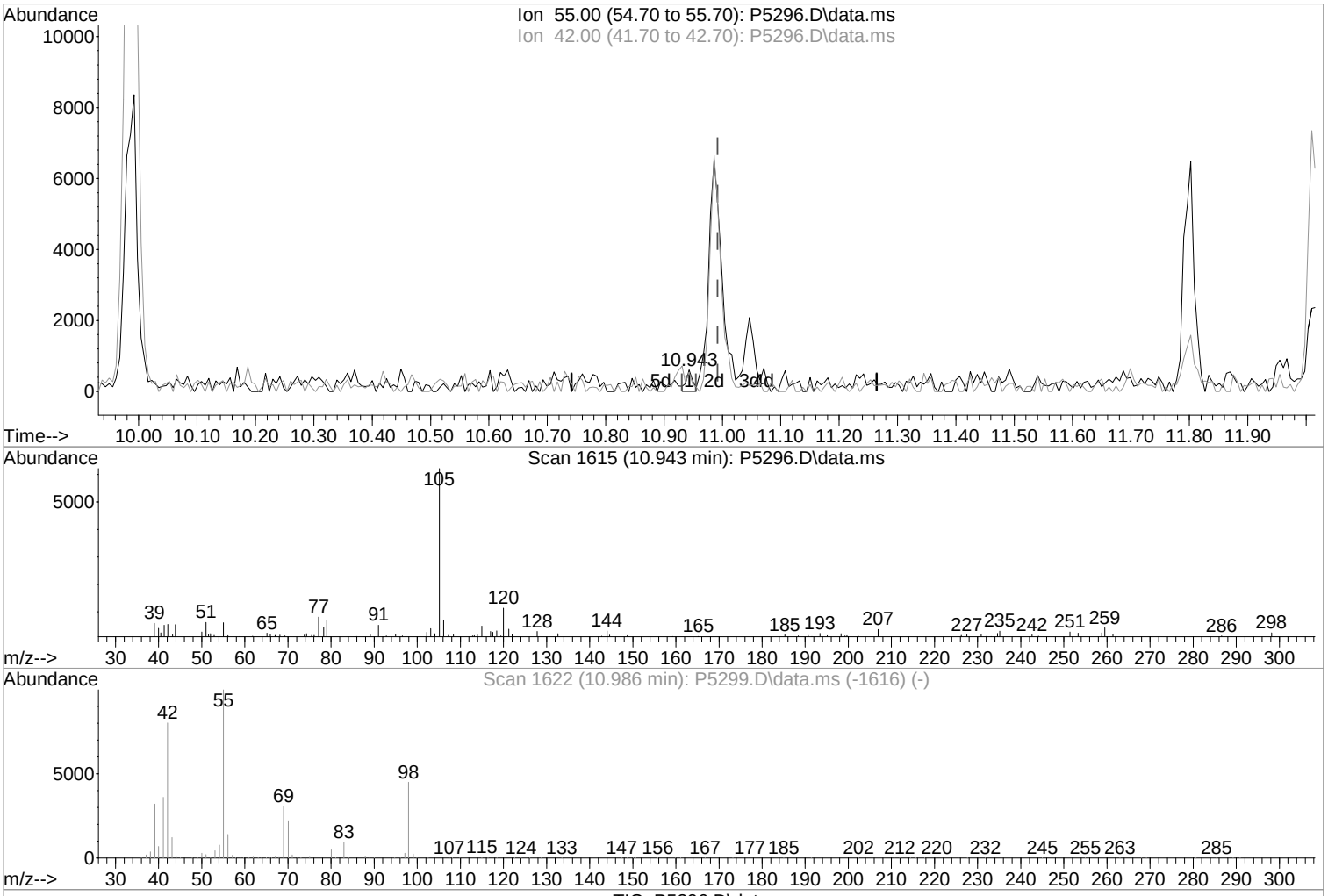
Peak not found.

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(90) Cyclohexanone

10.943min (-0.049) 1.66 ppb

response 448

Ion	Exp%	Act%
55.00	100	100
42.00	80.20	89.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

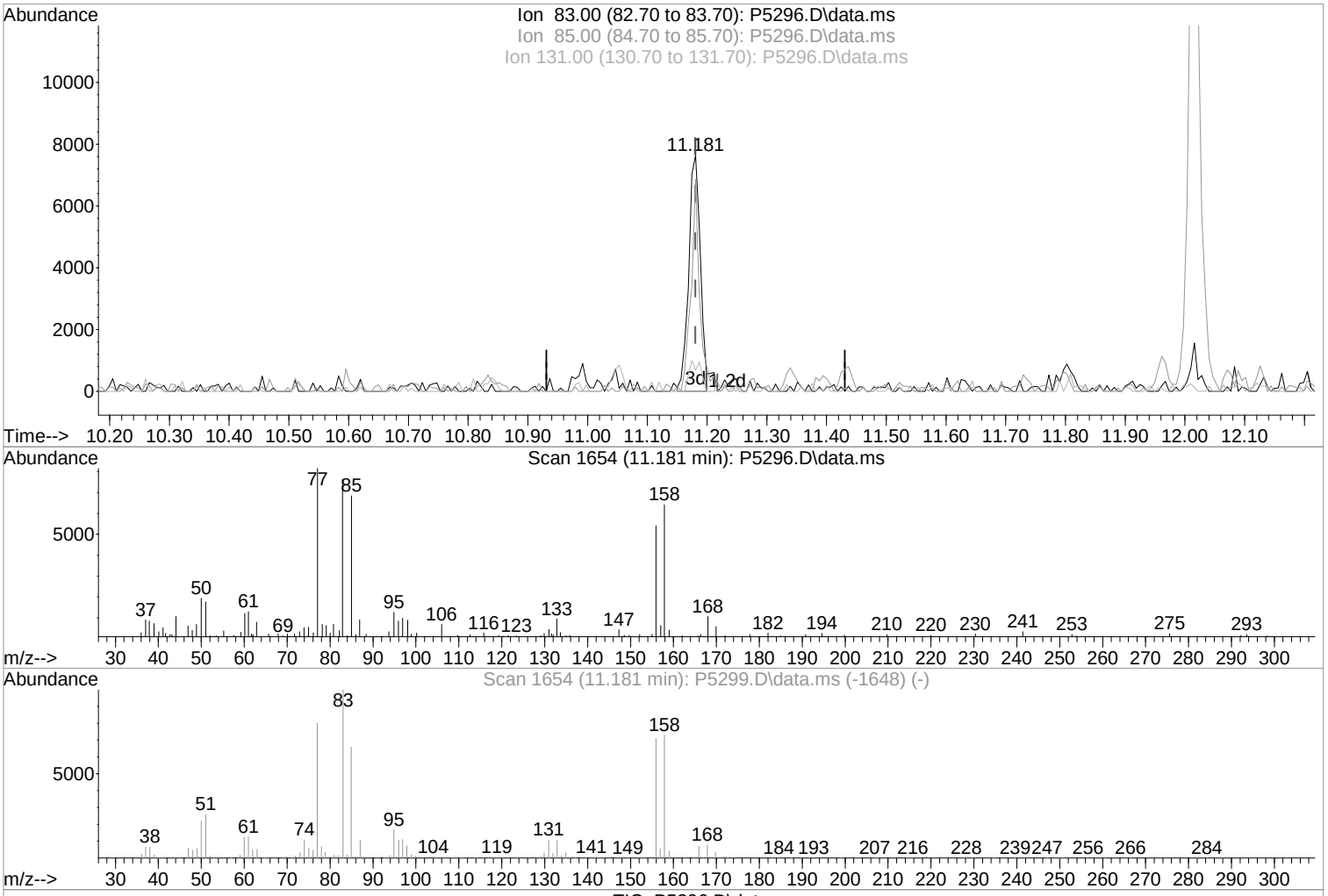
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5296.D\data.ms

(92) 1,1,2,2-Tetrachloroethane (P)

11.181min (-0.000) 2.03 ppb m

response 10282

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	89.71#
131.00	10.70	5.73
0.00	0.00	0.00

Manual Integration:

After

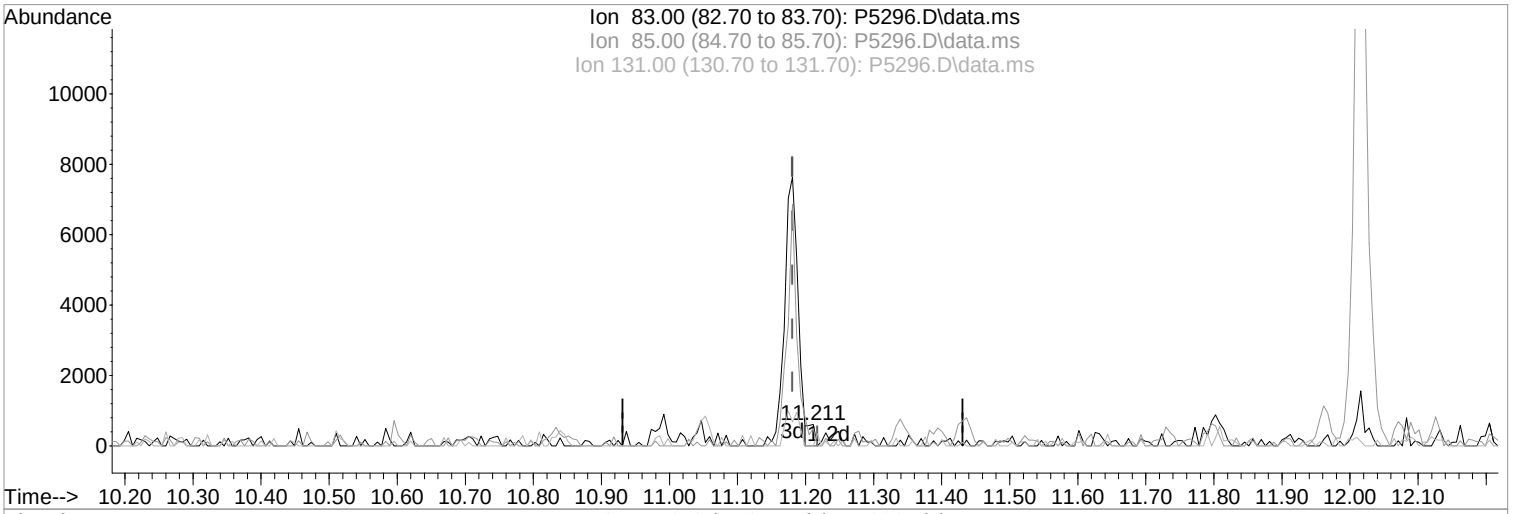
Peak not found.

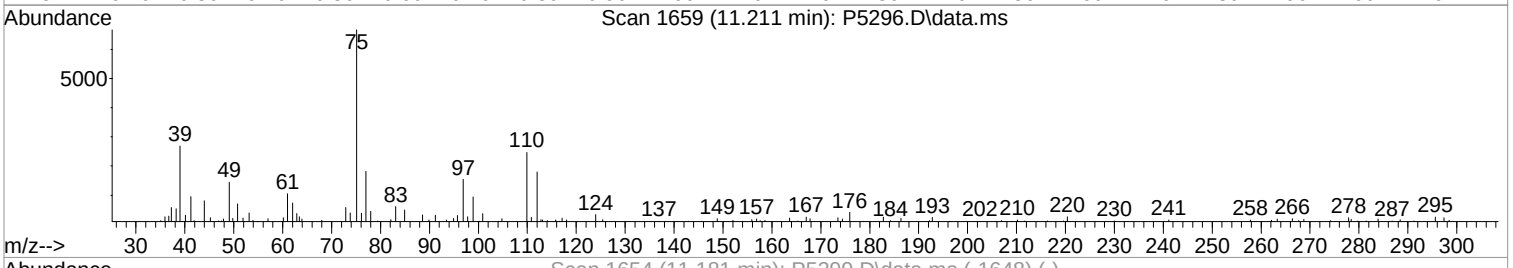
09/27/16

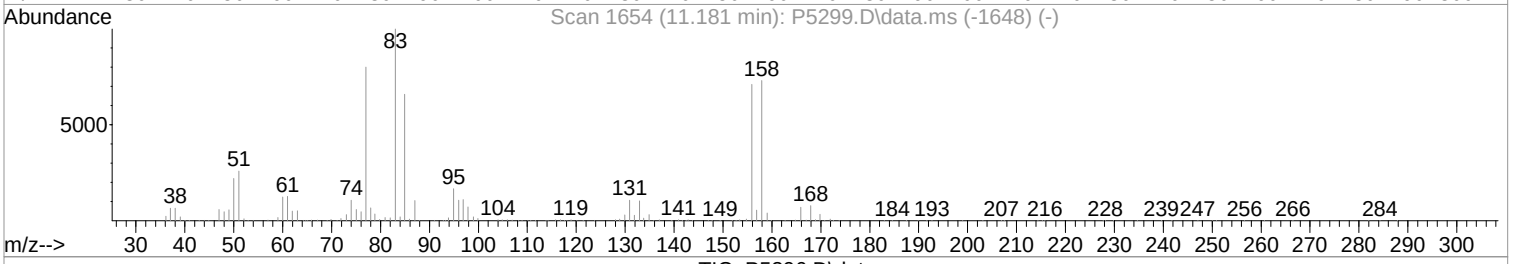
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:03:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5296.D\data.ms

(92) 1,1,2,2-Tetrachloroethane (P)

11.211min (+0.030) 0.09 ppb

response 438

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	81.12
131.00	10.70	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:36:37 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	763640	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1163011	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1093410	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	611058	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.596	113	396144	63.82	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 127.64%#				
48) surr1,1,2-dichloroetha...	6.096	65	455477	64.60	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 129.20%#				
65) SURR3,Toluene-d8	8.529	98	1674414	65.83	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 131.66%#				
70) SURR2,BFB	11.047	95	641841	64.68	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 129.36%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	16398	1.98	ppb		96
3) Chloromethane	1.347	50	14841	2.10	ppb		99
4) Vinyl Chloride	1.433	62	11135	1.84	ppb		91
5) Bromomethane	1.689	94	8713	2.23	ppb		98
6) Chloroethane	1.762	64	6945	2.01	ppb		96
7) Freon 21	1.926	67	17232	2.15	ppb		99
8) Trichlorofluoromethane	1.975	101	13207	1.89	ppb		94
9) Diethyl Ether	2.231	59	6078	1.97	ppb		95
10) Freon 123a	2.237	67	11328	2.29	ppb		86
11) Freon 123	2.292	83	12300	1.95	ppb		84
12) Acrolein	2.335	56	4261	10.21	ppb		89
13) 1,1-Diclethene	2.432	96	10567	1.99	ppb	#	77
14) Freon 113	2.438	101	12145	2.16	ppb		99
15) Acetone	2.487	43	4551	3.67	ppb		73
16) 2-Propanol	2.646	45	11165	42.04	ppb		93
17) Iodomethane	2.567	142	11120	1.56	ppb		96
18) Carbon Disulfide	2.634	76	33189	1.99	ppb		98
19) Acetonitrile	2.762	40	2887m	12.40	ppb		
20) Allyl Chloride	2.798	76	6979m	2.26	ppb		
21) Methyl Acetate	2.829	43	6076	2.15	ppb		80
22) Methylene Chloride	2.920	84	12104	2.12	ppb		96
23) TBA	3.091	59	18225	43.10	ppb		93
24) Acrylonitrile	3.201	53	13777	9.40	ppb	#	73
25) Methyl-t-Butyl Ether	3.261	73	31122	2.08	ppb		96
26) trans-1,2-Dichloroethene	3.237	96	13219	2.21	ppb		92
28) 1,1-Diclethane	3.792	63	20108	2.03	ppb		92
29) Vinyl Acetate	3.896	86	1957m	2.20	ppb		
30) DIPE	3.944	45	39912	2.04	ppb		92
31) 2-Chloro-1,3-Butadiene	3.932	53	19538	2.09	ppb		98
32) ETBE	4.523	59	33752	1.95	ppb		91
33) 2,2-Dichloropropane	4.706	77	18277	2.02	ppb		99
34) cis-1,2-Dichloroethene	4.719	96	12691	2.08	ppb		94
36) Propionitrile	4.871	54	5628m	11.06	ppb		
37) Bromochloromethane	5.145	130	6704m	1.92	ppb		
38) Methacrylonitrile	5.157	67	3918m	2.28	ppb		
39) Tetrahydrofuran	5.249	42	3542m	2.79	ppb		
40) Chloroform	5.328	83	19993m	2.07	ppb		
41) 1,1,1-Trichloroethane	5.596	97	19400	2.18	ppb		91
42) TAME	6.401	73	28446	1.81	ppb		92

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:36:37 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Cyclohexane	5.676	41	12401	1.98	ppb		99
46) Carbontetrachloride	5.859	121	4711	1.92	ppb	#	36
47) 1,1-Dichloropropene	5.871	75	16379m	2.06	ppb		
49) Benzene	6.176	78	45928	2.12	ppb		94
50) 1,2-Dichloroethane	6.206	62	14601	2.08	ppb		94
51) Iso-Butyl Alcohol	6.206	43	9218m	48.75	ppb		
52) n-Heptane	6.645	43	17619	2.27	ppb		98
53) 1-Butanol	7.114	56	10407	93.90	ppb		99
54) Trichloroethene	7.090	130	12955	2.12	ppb		87
55) Methylcyclohexane	7.309	55	17977	2.34	ppb	#	79
56) 1,2-Diclpropane	7.358	63	11902	2.06	ppb		95
57) Dibromomethane	7.486	93	5906	1.93	ppb	#	69
58) 1,4-Dioxane	7.572	88	2414m	52.28	ppb		
59) Methyl Methacrylate	7.578	69	6345	1.99	ppb		94
60) Bromodichloromethane	7.712	83	15754	2.12	ppb		90
61) 2-Nitropropane	7.980	41	4171m	3.70	ppb		
62) 2-Chloroethylvinyl Ether	8.108	63	5384	2.20	ppb		97
63) cis-1,3-Dichloropropene	8.242	75	19344	2.08	ppb		93
64) 4-Methyl-2-pentanone	8.437	43	6532	1.70	ppb		77
66) Toluene	8.602	91	48172	2.01	ppb		98
67) trans-1,3-Dichloropropene	8.864	75	16284	1.95	ppb		94
68) Ethyl Methacrylate	8.998	69	14466	2.24	ppb		96
69) 1,1,2-Trichloroethane	9.047	97	8261	1.94	ppb		95
72) Tetrachloroethene	9.181	164	10066	2.05	ppb		93
73) 2-Hexanone	9.327	43	5236	1.90	ppb		77
74) 1,3-Dichloropropane	9.205	76	15823	2.04	ppb		95
75) Dibromochloromethane	9.437	129	9369	1.84	ppb		91
76) N-Butyl Acetate	9.480	43	16393	2.15	ppb		98
77) 1,2-Dibromoethane	9.535	107	8244	1.94	ppb		94
78) Chlorobenzene	10.016	112	33118	2.04	ppb		85
79) 3-CBTF	10.028	180	19632	2.19	ppb		87
80) 4-CBTF	10.083	180	16506	2.03	ppb		87
81) 1,1,1,2-Tetrachloroethane	10.102	131	11841	2.04	ppb		81
82) Ethylbenzene	10.132	106	19140	2.16	ppb		91
83) (m+p)Xylene	10.242	106	41947	3.92	ppb	#	76
84) o-Xylene	10.595	106	23122	2.11	ppb		90
85) Styrene	10.608	104	36214	2.02	ppb		93
87) Bromoform	10.760	173	5284	1.85	ppb		87
88) 2-CBTF	10.833	180	17539	1.94	ppb		95
89) Isopropylbenzene	10.925	105	55603	2.02	ppb		98
90) Cyclohexanone	10.986	55	10385m	38.56	ppb		
91) trans-1,4-Dichloro-2-B...	11.229	53	3160	2.09	ppb	#	72
92) 1,1,2,2-Tetrachloroethane	11.181	83	10282m	2.03	ppb		
93) Bromobenzene	11.168	156	14298	1.96	ppb		85
94) 1,2,3-Trichloropropane	11.211	110	3407	2.12	ppb		89
95) n-Propylbenzene	11.278	91	65751	2.05	ppb		95
96) 2-Chlorotoluene	11.345	91	39773	2.10	ppb		96
97) 3-Chlorotoluene	11.394	91	39305	2.01	ppb		94
98) 4-Chlorotoluene	11.431	91	46753	2.08	ppb		96
99) 1,3,5-Trimethylbenzene	11.431	105	47432	2.05	ppb		91
100) tert-Butylbenzene	11.699	119	39020	1.90	ppb		99
101) 1,2,4-Trimethylbenzene	11.735	105	47917	1.99	ppb		96
102) 3,4-DCBTF	11.796	214	14507	2.06	ppb		90
103) sec-Butylbenzene	11.882	105	60555	2.09	ppb		98
104) p-Isopropyltoluene	12.004	119	51912	2.05	ppb		95
105) 1,3-Dclbenz	11.961	146	28178	2.01	ppb		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:36:37 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
106) 1,4-Dclbenz	12.034	146	28961	2.04	ppb		97
107) 2,4-DCBTF	12.083	214	12568	1.93	ppb	#	89
108) 2,5-DCBTF	12.132	214	14132	1.90	ppb	#	79
109) n-Butylbenzene	12.333	91	44806	2.00	ppb		94
110) 1,2-Dclbenz	12.333	146	25928	1.98	ppb		97
111) 1,2-Dibromo-3-chloropr...	12.955	157	2199	2.01	ppb	#	79
112) Trielution Dichlorotol...	13.071	125	72597	6.10	ppb		93
113) 1,3,5 Trichlorobenzene	13.125	180	20247	1.94	ppb	#	90
114) Coelution Dichlorotoluene	13.400	125	52929	4.12	ppb		98
115) 1,2,4-Tcbenzene	13.613	180	18956	2.00	ppb		92
116) Hexachlorobt	13.747	225	8338	2.09	ppb		81
117) Naphthalen	13.796	128	33400	2.04	ppb		99
118) 1,2,3-Tclbenzene	13.985	180	15687	1.92	ppb		89
119) 2,4,5-Trichlorotolene	14.570	159	12284	2.14	ppb		97
120) 2,3,6-Trichlorotoluene	14.656	159	11459m	2.16	ppb		

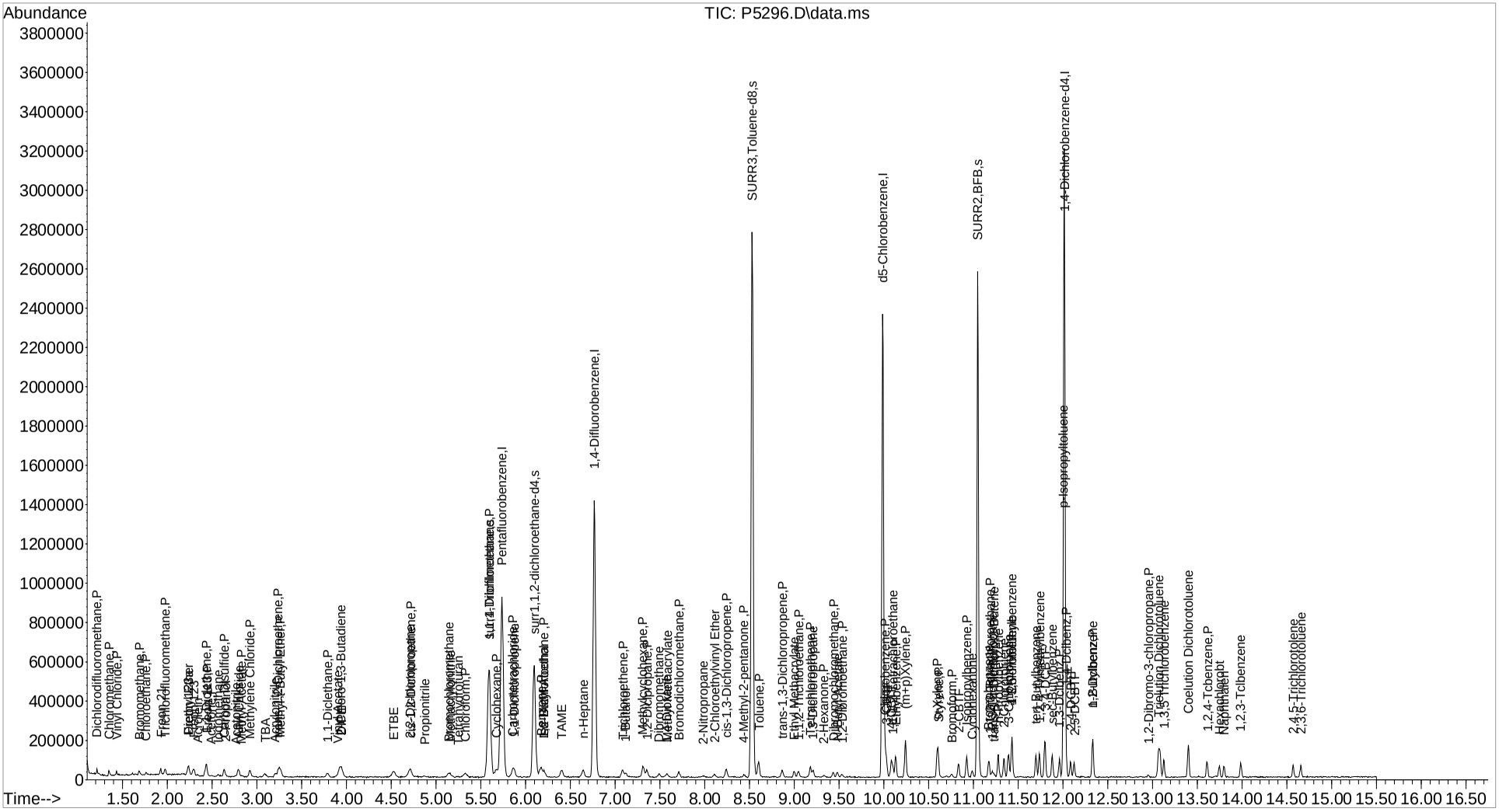
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5296.D
Acq On : 26 Sep 2016 6:17 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 10:36:37 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

1st 09/27/16
2nd 09/27/16

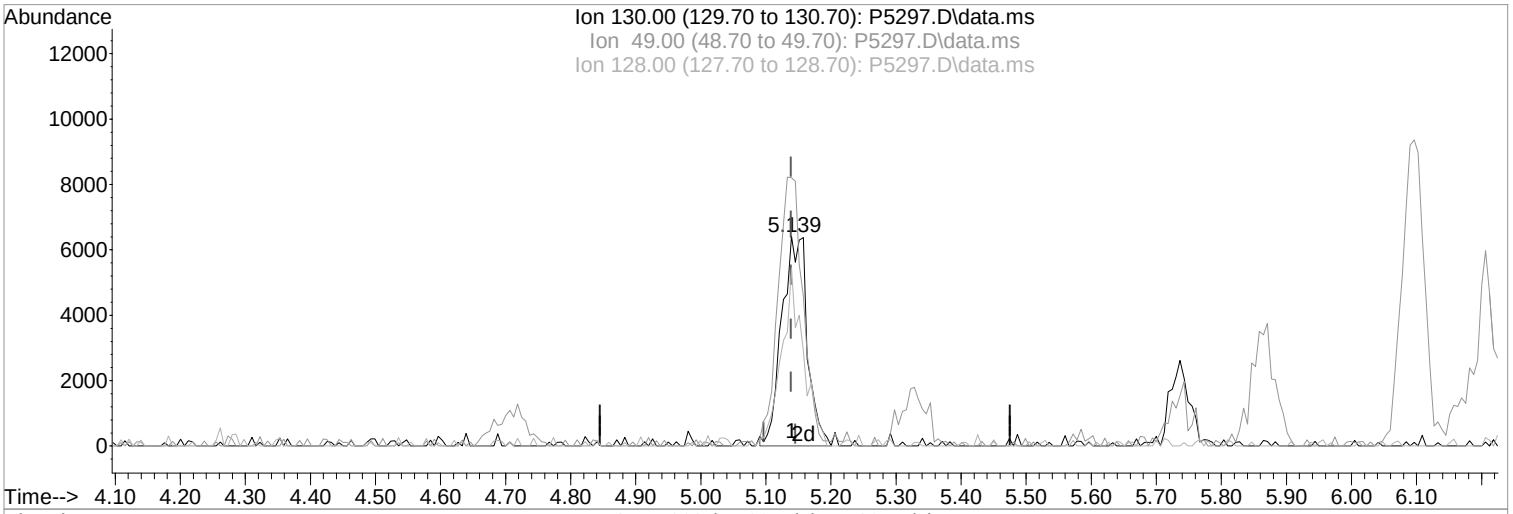


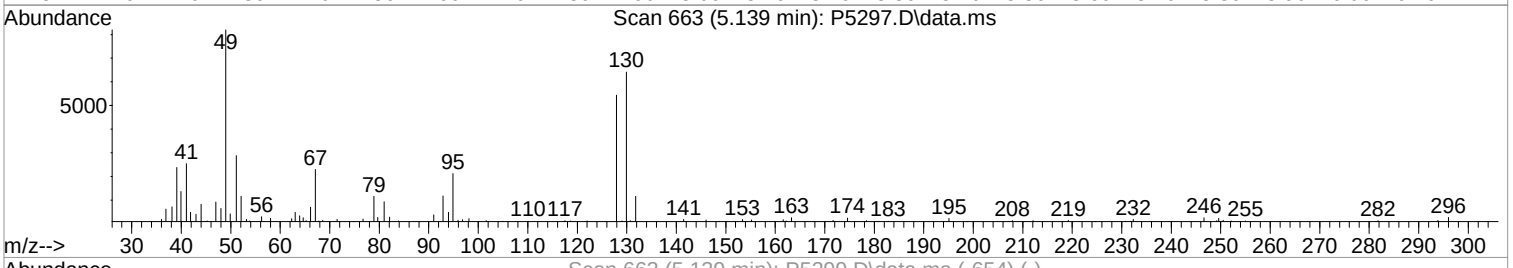
1st 09/27/16
2nd 09/27/16

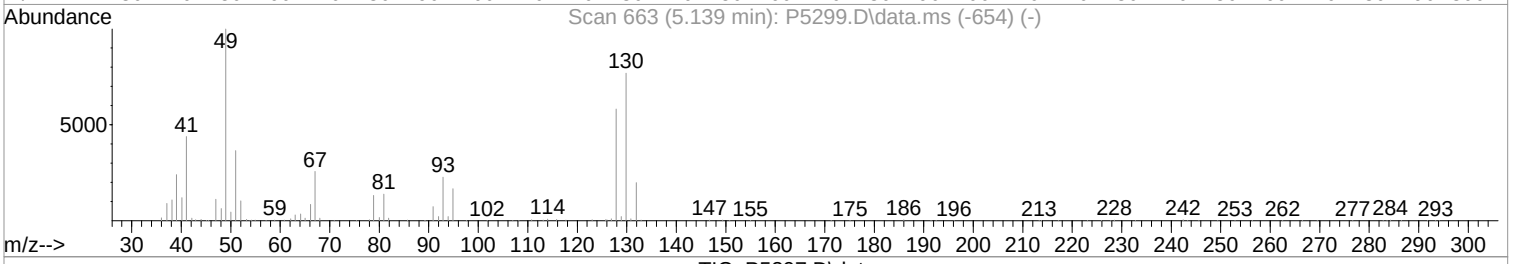
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:03:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5297.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 5.03 ppb m

response 17403

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	127.81
128.00	75.90	84.76
0.00	0.00	0.00

Manual Integration:

After

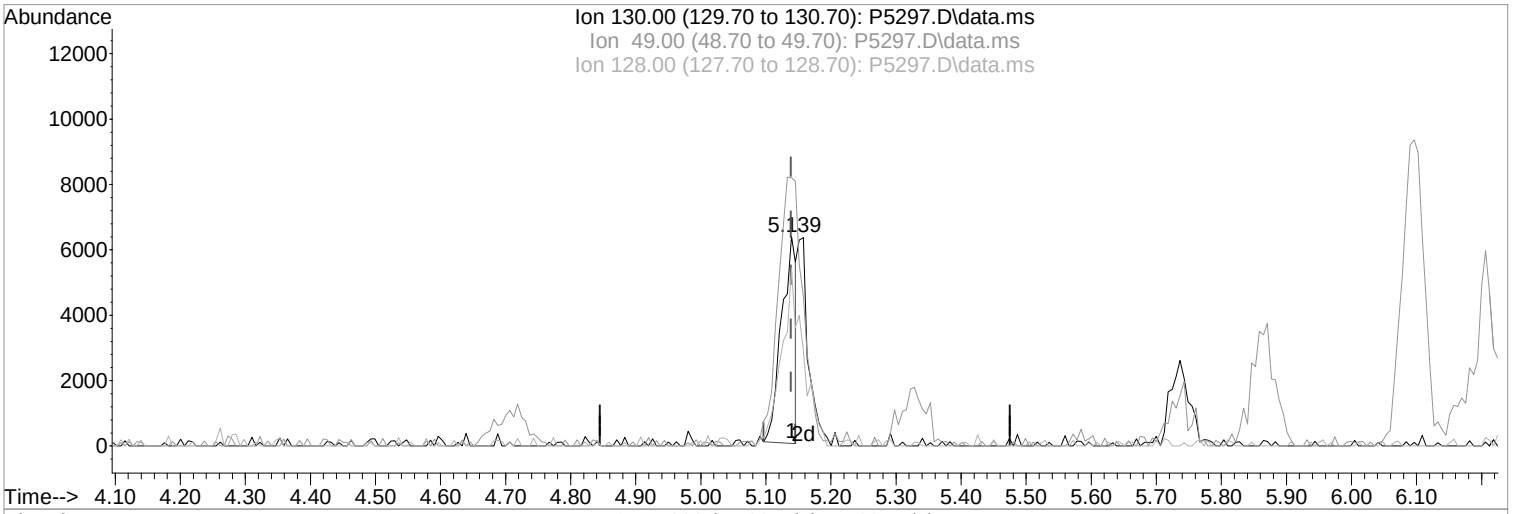
Split Peak

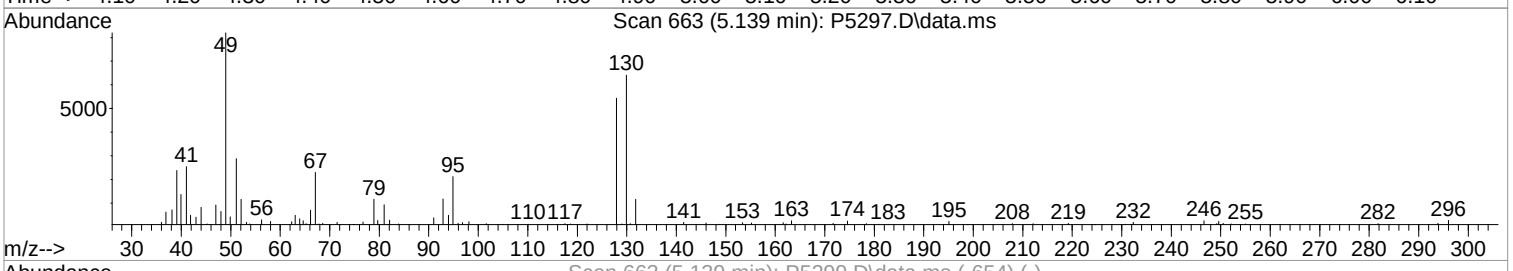
09/27/16

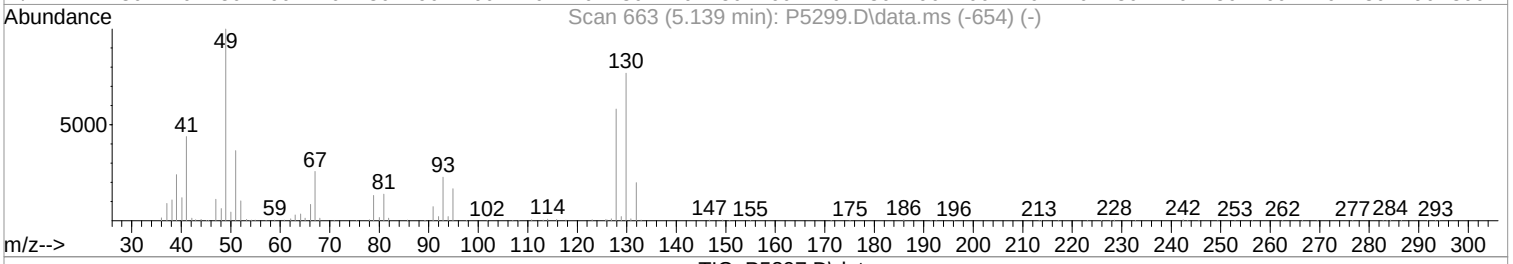
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:03:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5297.D\data.ms

(37) Bromochloromethane

5.139min (+0.000) 2.83 ppb

response 9778

Ion	Exp%	Act%
130.00	100	100
49.00	130.30	125.18
128.00	75.90	83.02
0.00	0.00	0.00

Manual Integration:

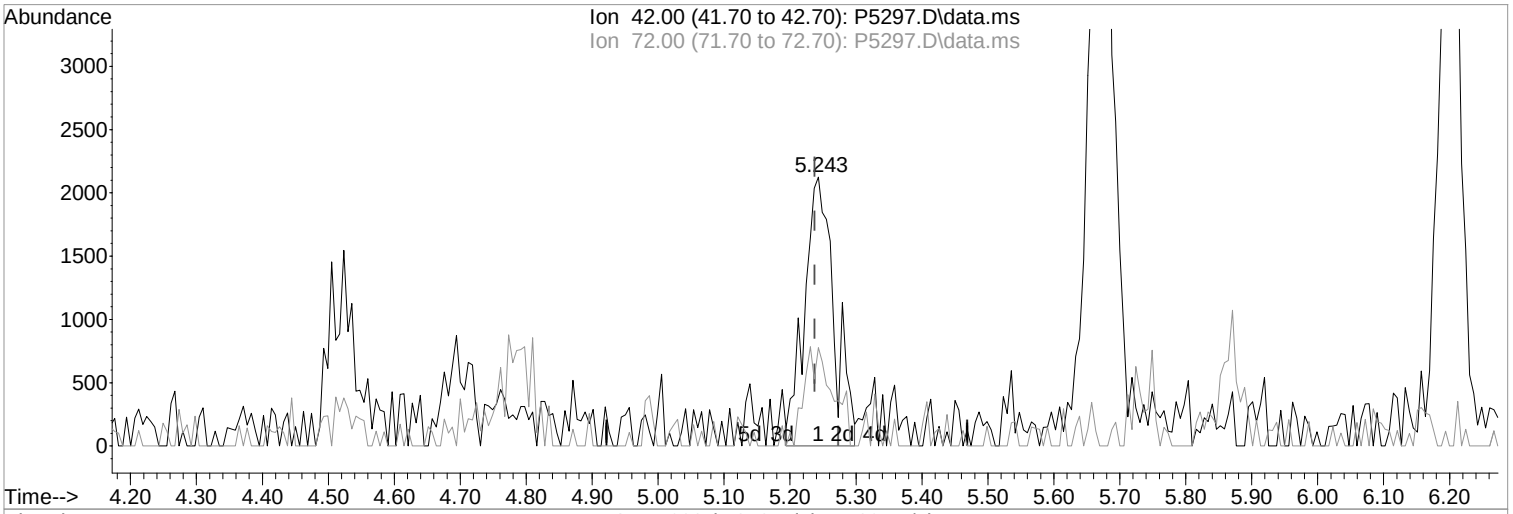
Before

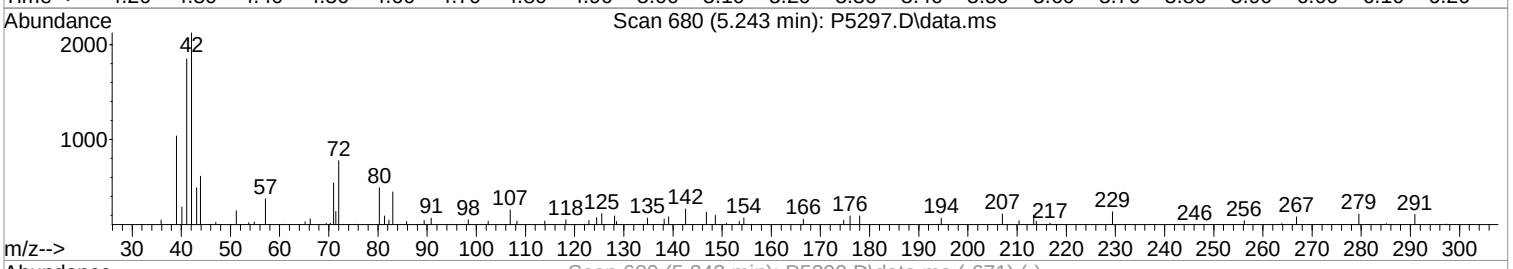
09/27/16

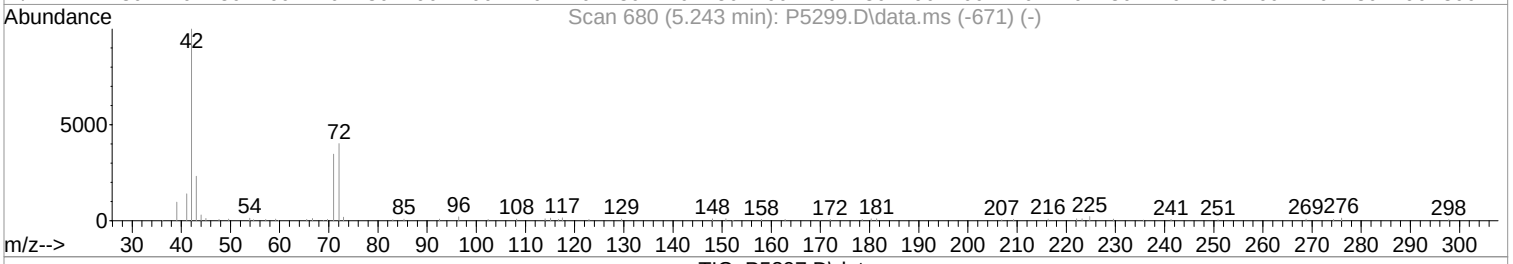
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:03:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5297.D\data.ms

(39) Tetrahydrofuran

5.243min (+0.006) 5.24 ppb m

response 6601

Ion	Exp%	Act%
42.00	100	100
72.00	39.70	36.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

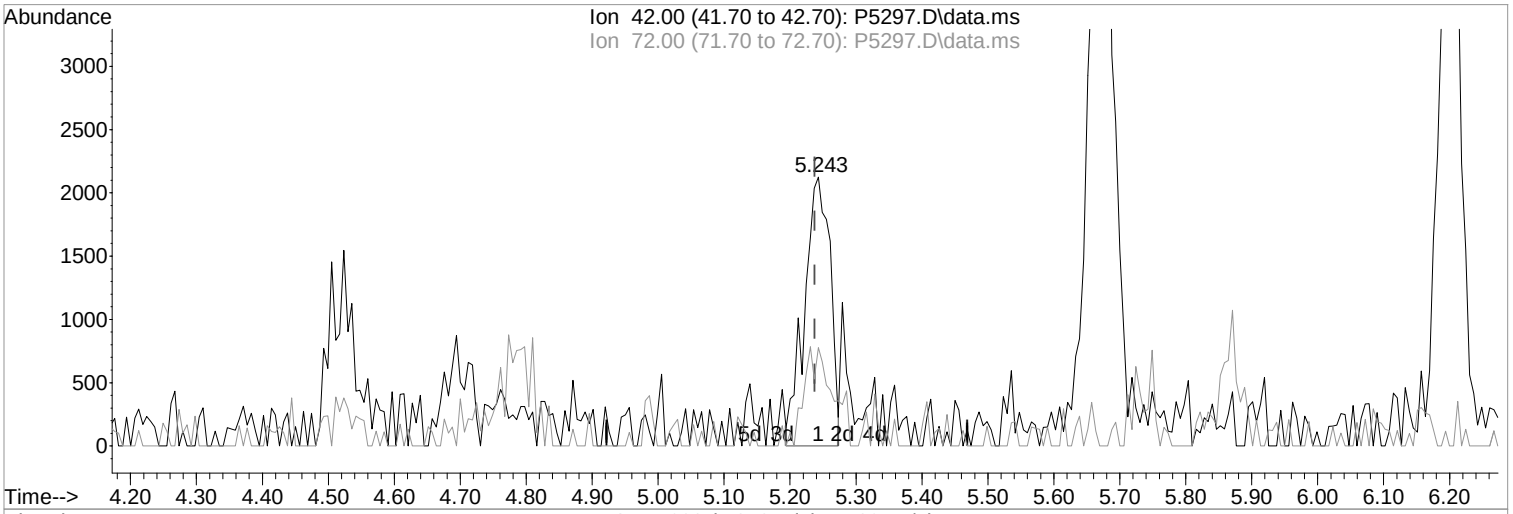
Split Peak

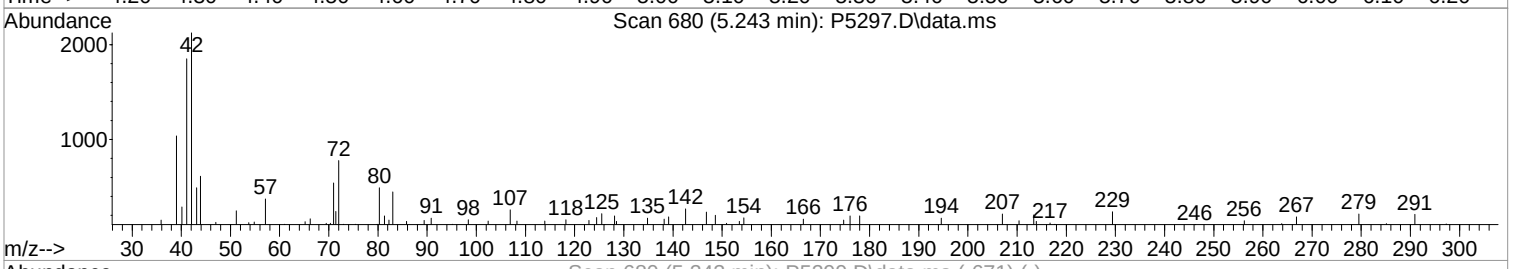
09/27/16

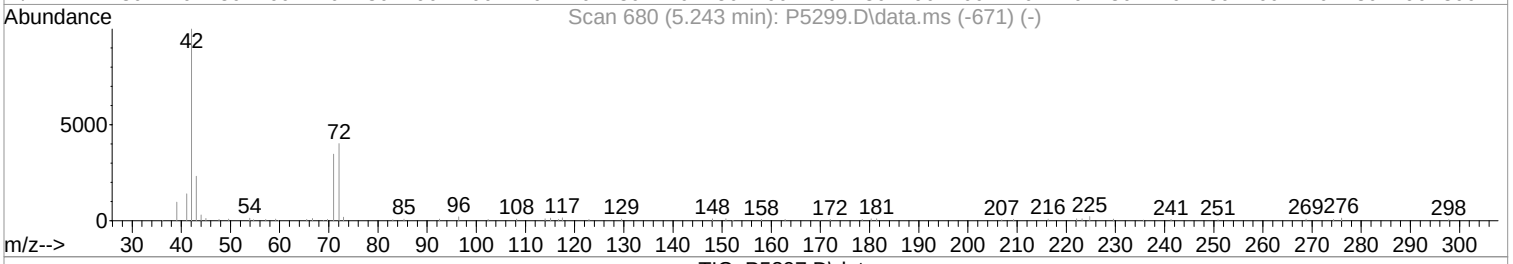
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:03:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5297.D\data.ms

(39) Tetrahydrofuran

5.243min (+0.006) 4.57 ppb

response 5757

Ion	Exp%	Act%
42.00	100	100
72.00	39.70	36.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

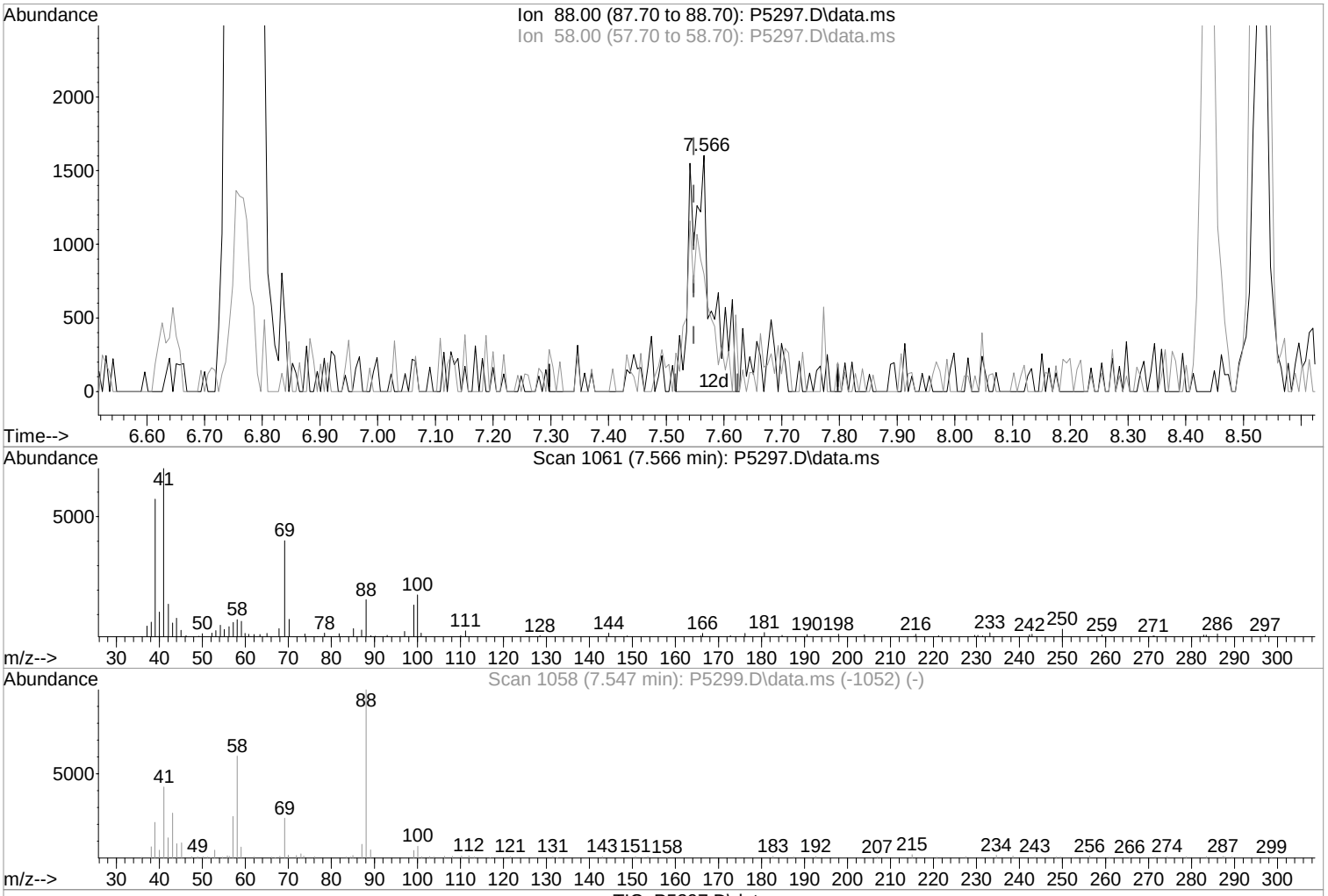
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:03:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5297.D\data.ms

(58) 1,4-Dioxane

7.566min (+0.018) 89.58 ppb m

response 4189

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	49.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

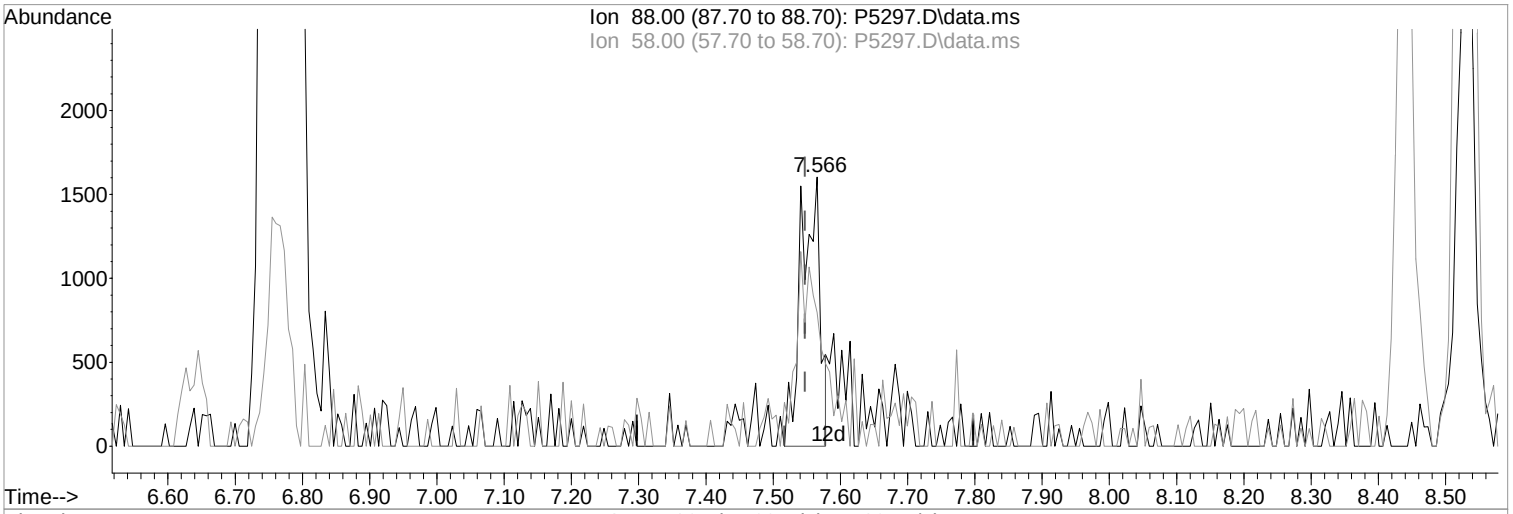
Split Peak

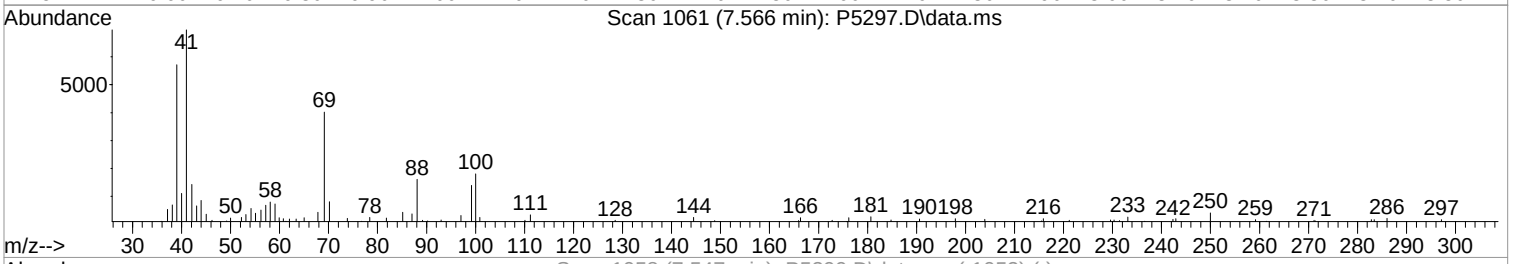
09/27/16

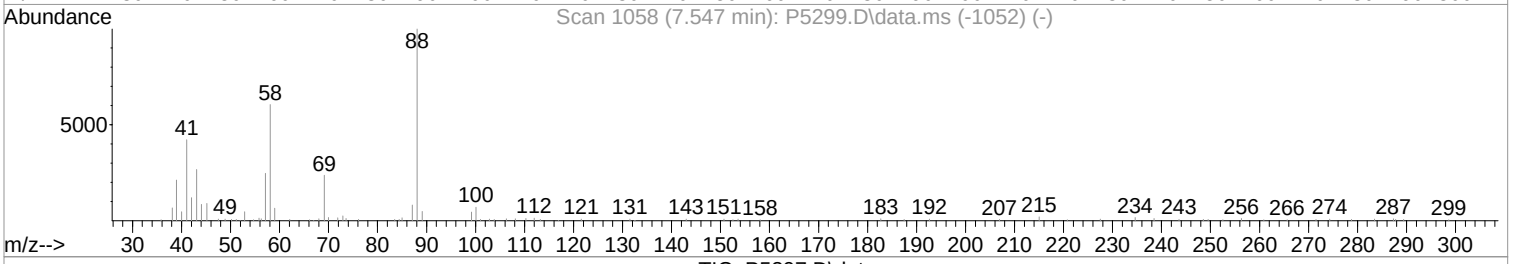
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:03:26 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5297.D\data.ms

(58) 1,4-Dioxane

7.566min (+0.018) 67.30 ppb

response 3147

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	49.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:39:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	756585	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1177832	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1104800	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	605079	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	451070	71.76	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 143.52%#				
48) surr1,1,2-dichloroetha...	6.096	65	517514	72.47	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 144.94%#				
65) SURR3,Toluene-d8	8.529	98	1864132	72.37	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 144.74%#				
70) SURR2,BFB	11.047	95	718020	71.45	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 142.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	37610	4.59	ppb		92
3) Chloromethane	1.347	50	33723	4.81	ppb		85
4) Vinyl Chloride	1.426	62	29269	4.89	ppb		99
5) Bromomethane	1.683	94	17384	4.48	ppb		81
6) Chloroethane	1.762	64	16369	4.78	ppb		91
7) Freon 21	1.926	67	39614	5.00	ppb		94
8) Trichlorofluoromethane	1.975	101	37433	5.40	ppb		88
9) Diethyl Ether	2.231	59	15753	5.15	ppb		93
10) Freon 123a	2.231	67	26107	5.33	ppb		87
11) Freon 123	2.292	83	31553	5.04	ppb		96
12) Acrolein	2.335	56	9293	22.47	ppb		84
13) 1,1-Diclethene	2.432	96	24982	4.75	ppb		86
14) Freon 113	2.438	101	28053	5.03	ppb		93
15) Acetone	2.481	43	7681	6.25	ppb		84
16) 2-Propanol	2.646	45	27761	105.50	ppb		96
17) Iodomethane	2.573	142	26432	3.74	ppb		92
18) Carbon Disulfide	2.634	76	82327	4.97	ppb		94
19) Acetonitrile	2.755	40	5793	25.11	ppb	#	69
20) Allyl Chloride	2.792	76	15771	5.15	ppb	#	89
21) Methyl Acetate	2.823	43	12212	4.37	ppb		91
22) Methylene Chloride	2.920	84	26894	4.76	ppb		96
23) TBA	3.091	59	39937	95.32	ppb		97
24) Acrylonitrile	3.207	53	33022	22.74	ppb		99
25) Methyl-t-Butyl Ether	3.261	73	73660	4.98	ppb		97
26) trans-1,2-Dichloroethene	3.237	96	30082	5.09	ppb		88
28) 1,1-Diclethane	3.786	63	50108	5.10	ppb		98
29) Vinyl Acetate	3.902	86	4157	4.71	ppb	#	61
30) DIPE	3.938	45	99291	5.13	ppb		90
31) 2-Chloro-1,3-Butadiene	3.920	53	47614	5.13	ppb		84
32) ETBE	4.517	59	85827	4.99	ppb		89
33) 2,2-Dichloropropane	4.700	77	43365	4.83	ppb		93
34) cis-1,2-Dichloroethene	4.712	96	30709	5.09	ppb		96
35) 2-Butanone	4.786	43	9178	5.42	ppb		88
36) Propionitrile	4.865	54	11733	23.27	ppb		92
37) Bromochloromethane	5.139	130	17403m	5.03	ppb		
38) Methacrylonitrile	5.157	67	8445	4.96	ppb		99
39) Tetrahydrofuran	5.243	42	6601m	5.24	ppb		
40) Chloroform	5.328	83	48493	5.07	ppb		89
41) 1,1,1-Trichloroethane	5.590	97	45358	5.14	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:39:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.401	73	75822	4.88	ppb		94
44)	Cyclohexane	5.676	41	37502	5.92	ppb		98
46)	Carbontetrachloride	5.865	121	12623	5.09	ppb		88
47)	1,1-Dichloropropene	5.871	75	39105	4.86	ppb		95
49)	Benzene	6.163	78	116238	5.31	ppb		97
50)	1,2-Dichloroethane	6.212	62	34644	4.87	ppb		94
51)	Iso-Butyl Alcohol	6.194	43	15721	82.09	ppb		87
52)	n-Heptane	6.645	43	39951	5.08	ppb		98
53)	1-Butanol	7.120	56	24741	220.43	ppb		85
54)	Trichloroethene	7.078	130	32559	5.26	ppb		81
55)	Methylcyclohexane	7.309	55	41083	5.28	ppb		89
56)	1,2-Diclpropane	7.352	63	29597	5.05	ppb		96
57)	Dibromomethane	7.492	93	14198	4.59	ppb		91
58)	1,4-Dioxane	7.566	88	4189m	89.58	ppb		
59)	Methyl Methacrylate	7.578	69	14992	4.65	ppb		91
60)	Bromodichloromethane	7.706	83	36740	4.89	ppb		95
61)	2-Nitropropane	7.980	41	10604	9.30	ppb		99
62)	2-Chloroethylvinyl Ether	8.108	63	10869	4.38	ppb		63
63)	cis-1,3-Dichloropropene	8.236	75	45133	4.79	ppb		94
64)	4-Methyl-2-pentanone	8.437	43	19506	5.02	ppb		89
66)	Toluene	8.602	91	124079	5.10	ppb		99
67)	trans-1,3-Dichloropropene	8.864	75	39704	4.70	ppb		99
68)	Ethyl Methacrylate	8.998	69	30890	4.72	ppb		87
69)	1,1,2-Trichloroethane	9.041	97	21727	5.05	ppb		90
72)	Tetrachloroethene	9.181	164	24805	5.00	ppb		92
73)	2-Hexanone	9.327	43	12685	4.56	ppb		79
74)	1,3-Dichloropropane	9.212	76	38869	4.96	ppb		92
75)	Dibromochloromethane	9.437	129	25340	4.92	ppb		87
76)	N-Butyl Acetate	9.480	43	39028	5.07	ppb		96
77)	1,2-Dibromoethane	9.529	107	21810	5.08	ppb		99
78)	Chlorobenzene	10.016	112	85703	5.22	ppb		93
79)	3-CBTF	10.028	180	43984	4.85	ppb		93
80)	4-CBTF	10.083	180	40829	4.98	ppb		96
81)	1,1,1,2-Tetrachloroethane	10.102	131	29314	5.01	ppb		96
82)	Ethylbenzene	10.132	106	47041	5.26	ppb	#	89
83)	(m+p)Xylene	10.242	106	111117	10.29	ppb		91
84)	o-Xylene	10.595	106	53782	4.87	ppb		98
85)	Styrene	10.608	104	91704	5.07	ppb		98
87)	Bromoform	10.760	173	11793	4.17	ppb		80
88)	2-CBTF	10.833	180	44402	4.95	ppb		97
89)	Isopropylbenzene	10.925	105	144618	5.30	ppb		98
90)	Cyclohexanone	10.986	55	22323	83.71	ppb		80
91)	trans-1,4-Dichloro-2-B...	11.229	53	7611	5.08	ppb		98
92)	1,1,2,2-Tetrachloroethane	11.181	83	24478	4.89	ppb		97
93)	Bromobenzene	11.168	156	35735	4.94	ppb		97
94)	1,2,3-Trichloropropane	11.211	110	8418	5.29	ppb		87
95)	n-Propylbenzene	11.278	91	171406	5.39	ppb		99
96)	2-Chlorotoluene	11.339	91	98693	5.25	ppb		97
97)	3-Chlorotoluene	11.394	91	99489	5.14	ppb		98
98)	4-Chlorotoluene	11.431	91	116284	5.24	ppb		93
99)	1,3,5-Trimethylbenzene	11.431	105	119838	5.24	ppb		96
100)	tert-Butylbenzene	11.699	119	104199	5.13	ppb		97
101)	1,2,4-Trimethylbenzene	11.735	105	122936	5.15	ppb		96
102)	3,4-DCBTF	11.796	214	34626	4.97	ppb		94
103)	sec-Butylbenzene	11.882	105	151589	5.28	ppb		96
104)	p-Isopropyltoluene	11.998	119	131706	5.26	ppb		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:39:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

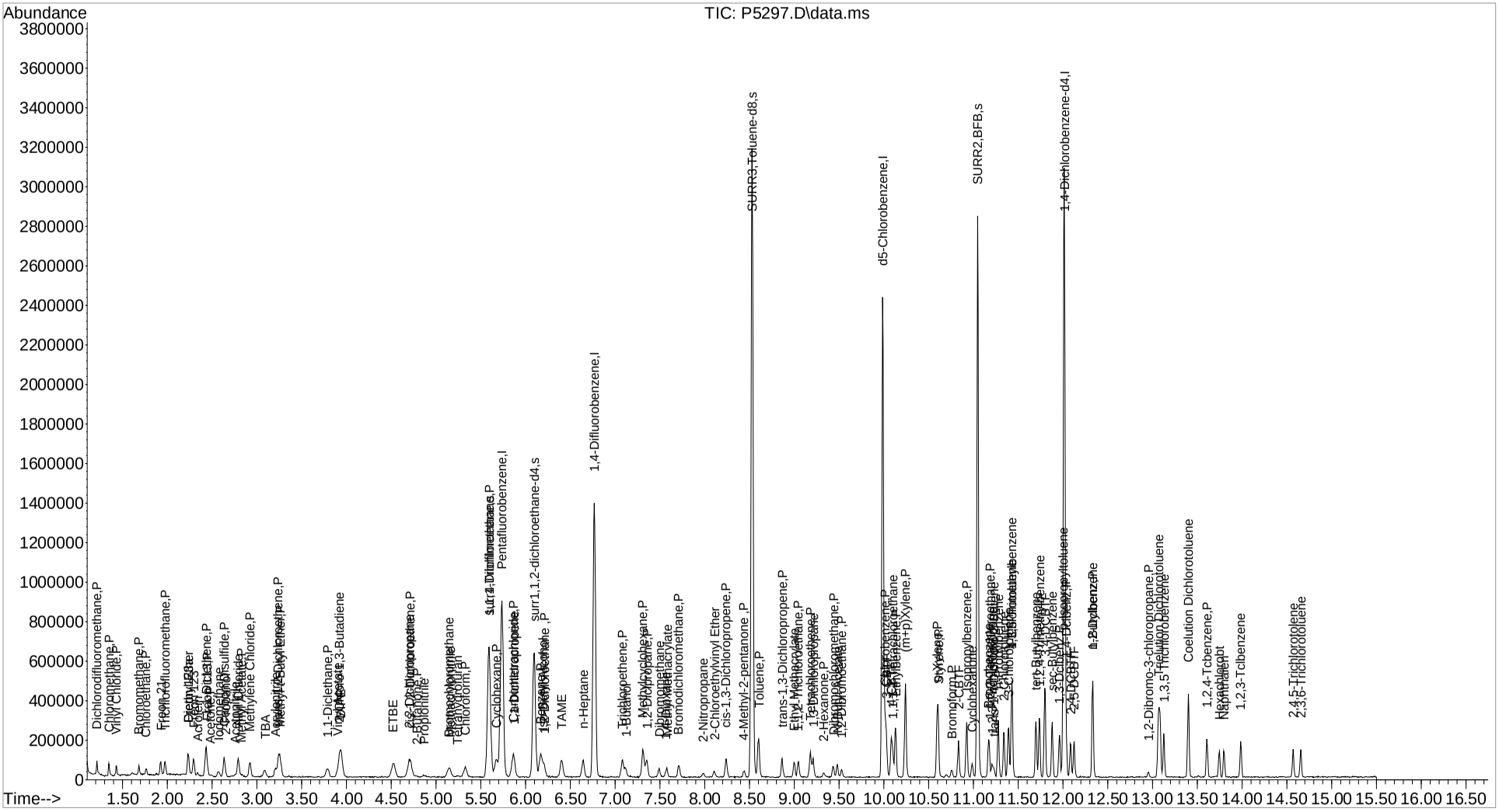
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) 1,3-Dclbenz	11.961	146	71592	5.15	ppb		100
106) 1,4-Dclbenz	12.034	146	67897	4.83	ppb		92
107) 2,4-DCBTF	12.089	214	29898	4.63	ppb		89
108) 2,5-DCBTF	12.126	214	35456	4.82	ppb		93
109) n-Butylbenzene	12.333	91	116245	5.25	ppb		95
110) 1,2-Dclbenz	12.333	146	64672	4.99	ppb		99
111) 1,2-Dibromo-3-chloropr...	12.955	157	5289	4.87	ppb	#	77
112) Trielution Dichlorotol...	13.071	125	179986	15.27	ppb		96
113) 1,3,5 Trichlorobenzene	13.125	180	51481	4.99	ppb		95
114) Coelution Dichlorotoluene	13.400	125	134640	10.57	ppb		96
115) 1,2,4-Tcbenzene	13.607	180	45097	4.81	ppb		87
116) Hexachlorobt	13.747	225	19177	4.84	ppb		89
117) Naphthalen	13.796	128	76817	4.73	ppb		99
118) 1,2,3-Tclbenzene	13.985	180	40549	5.02	ppb		95
119) 2,4,5-Trichlorotolene	14.570	159	28970	5.10	ppb		87
120) 2,3,6-Trichlorotoluene	14.656	159	24962	4.75	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5297.D
Acq On : 26 Sep 2016 6:48 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 10:39:30 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5298.D
Acq On : 26 Sep 2016 7:18 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 10:03:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	777315	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1190714	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1131523	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	632067	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	600891	94.55	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 189.10%#				
48) surr1,1,2-dichloroetha...	6.096	65	702707	97.34	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 194.68%#				
65) SURR3,Toluene-d8	8.529	98	2467782	94.76	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 189.52%#				
70) SURR2,BFB	11.047	95	955059	94.01	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 188.02%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	167692	19.90	ppb		99
3) Chloromethane	1.347	50	150621	20.91	ppb		94
4) Vinyl Chloride	1.433	62	121521	19.76	ppb		97
5) Bromomethane	1.683	94	73179	18.37	ppb		96
6) Chloroethane	1.762	64	63336	18.00	ppb		94
7) Freon 21	1.927	67	155169	19.04	ppb		100
8) Trichlorofluoromethane	1.975	101	138227	19.42	ppb		93
9) Diethyl Ether	2.231	59	62853	20.02	ppb		96
10) Freon 123a	2.237	67	92011	18.28	ppb		91
11) Freon 123	2.292	83	119109	18.52	ppb		98
12) Acrolein	2.335	56	45271	106.55	ppb		89
13) 1,1-Diclethene	2.426	96	101028	18.69	ppb		98
14) Freon 113	2.445	101	106391	18.56	ppb		88
15) Acetone	2.481	43	25221	19.97	ppb		93
16) 2-Propanol	2.640	45	104363	386.02	ppb		92
17) Iodomethane	2.573	142	154648	21.29	ppb		100
18) Carbon Disulfide	2.634	76	328974	19.33	ppb		99
19) Acetonitrile	2.750	40	20354	85.88	ppb	#	73
20) Allyl Chloride	2.792	76	61347	19.50	ppb		95
21) Methyl Acetate	2.829	43	55492	19.32	ppb		90
22) Methylene Chloride	2.920	84	111185	19.17	ppb		95
23) TBA	3.085	59	169370	393.46	ppb		96
24) Acrylonitrile	3.207	53	143476	96.16	ppb		93
25) Methyl-t-Butyl Ether	3.262	73	308429	20.29	ppb		98
26) trans-1,2-Dichloroethene	3.243	96	115405	18.99	ppb		98
28) 1,1-Diclethane	3.792	63	197439	19.57	ppb		95
29) Vinyl Acetate	3.896	86	19543	21.56	ppb	#	85
30) DIPE	3.944	45	409884	20.63	ppb		96
31) 2-Chloro-1,3-Butadiene	3.926	53	183432	19.23	ppb		97
32) ETBE	4.524	59	367055	20.78	ppb		96
33) 2,2-Dichloropropane	4.707	77	178783	19.39	ppb		99
34) cis-1,2-Dichloroethene	4.713	96	121702	19.62	ppb		99
35) 2-Butanone	4.780	43	35172	20.20	ppb		99
36) Propionitrile	4.865	54	51093	98.64	ppb		98
37) Bromochloromethane	5.139	130	73258	20.62	ppb		90
38) Methacrylonitrile	5.145	67	35100	20.07	ppb		90
39) Tetrahydrofuran	5.237	42	23325	18.02	ppb		90
40) Chloroform	5.322	83	196103	19.96	ppb		97
41) 1,1,1-Trichloroethane	5.590	97	166968	18.42	ppb		94

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5298.D
Acq On : 26 Sep 2016 7:18 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 10:03:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	327213	20.49	ppb	99
44) Cyclohexane	5.670	41	120550	18.82	ppb	99
46) Carbontetrachloride	5.859	121	42925	17.12	ppb	95
47) 1,1-Dichloropropene	5.871	75	157219	19.33	ppb	94
49) Benzene	6.170	78	439312	19.85	ppb	96
50) 1,2-Dichloroethane	6.206	62	148615	20.67	ppb	97
51) Iso-Butyl Alcohol	6.200	43	76916	397.31	ppb	91
52) n-Heptane	6.645	43	159191	20.01	ppb	95
53) 1-Butanol	7.115	56	116061	1022.84	ppb	98
54) Trichloroethene	7.084	130	125233	20.02	ppb	96
55) Methylcyclohexane	7.310	55	152551	19.40	ppb	98
56) 1,2-Diclpropane	7.352	63	116932	19.72	ppb	94
57) Dibromomethane	7.486	93	61418	19.62	ppb	94
58) 1,4-Dioxane	7.553	88	18121	383.33	ppb	90
59) Methyl Methacrylate	7.572	69	62027	19.02	ppb	95
60) Bromodichloromethane	7.712	83	150904	19.86	ppb	98
61) 2-Nitropropane	7.980	41	43718	37.92	ppb	98
62) 2-Chloroethylvinyl Ether	8.102	63	49400	19.68	ppb	97
63) cis-1,3-Dichloropropene	8.242	75	197023	20.69	ppb	97
64) 4-Methyl-2-pentanone	8.437	43	79896	20.32	ppb	97
66) Toluene	8.602	91	497652	20.24	ppb	97
67) trans-1,3-Dichloropropene	8.864	75	174902	20.48	ppb	98
68) Ethyl Methacrylate	8.998	69	136849	20.70	ppb	92
69) 1,1,2-Trichloroethane	9.047	97	88936	20.45	ppb	97
72) Tetrachloroethene	9.181	164	95416	18.78	ppb	96
73) 2-Hexanone	9.328	43	58560	20.57	ppb	94
74) 1,3-Dichloropropane	9.212	76	168238	20.95	ppb	97
75) Dibromochloromethane	9.437	129	109597	20.80	ppb	93
76) N-Butyl Acetate	9.480	43	152768	19.37	ppb	97
77) 1,2-Dibromoethane	9.529	107	91428	20.80	ppb	100
78) Chlorobenzene	10.016	112	341399	20.31	ppb	99
79) 3-CBTF	10.029	180	177056	19.05	ppb	96
80) 4-CBTF	10.084	180	157948	18.79	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	121452	20.26	ppb	95
82) Ethylbenzene	10.132	106	185350	20.23	ppb	92
83) (m+p)Xylene	10.242	106	449349	40.63	ppb	98
84) o-Xylene	10.596	106	221809	19.60	ppb	99
85) Styrene	10.608	104	378439	20.44	ppb	96
87) Bromoform	10.760	173	57172	19.33	ppb	90
88) 2-CBTF	10.833	180	172101	18.37	ppb	98
89) Isopropylbenzene	10.925	105	564235	19.80	ppb	97
90) Cyclohexanone	10.986	55	101557	364.57	ppb	87
91) trans-1,4-Dichloro-2-B...	11.230	53	31251	19.98	ppb	92
92) 1,1,2,2-Tetrachloroethane	11.181	83	109186	20.87	ppb	88
93) Bromobenzene	11.169	156	149965	19.84	ppb	96
94) 1,2,3-Trichloropropane	11.211	110	33419	20.10	ppb	92
95) n-Propylbenzene	11.278	91	663041	19.97	ppb	98
96) 2-Chlorotoluene	11.339	91	389513	19.84	ppb	95
97) 3-Chlorotoluene	11.394	91	404869	20.01	ppb	98
98) 4-Chlorotoluene	11.431	91	464518	20.03	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	476435	19.93	ppb	98
100) tert-Butylbenzene	11.699	119	421967	19.87	ppb	98
101) 1,2,4-Trimethylbenzene	11.736	105	501455	20.12	ppb	96
102) 3,4-DCBTF	11.797	214	136067	18.68	ppb	97
103) sec-Butylbenzene	11.882	105	602842	20.10	ppb	98
104) p-Isopropyltoluene	11.998	119	515720	19.72	ppb	95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5298.D
Acq On : 26 Sep 2016 7:18 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 10:03:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	290242	19.97	ppb	97
106) 1,4-Dclbenz	12.034	146	293788	19.99	ppb	99
107) 2,4-DCBTF	12.083	214	127486	18.89	ppb	99
108) 2,5-DCBTF	12.126	214	139875	18.20	ppb	95
109) n-Butylbenzene	12.333	91	461518	19.96	ppb	98
110) 1,2-Dclbenz	12.333	146	278888	20.62	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.955	157	21644	19.10	ppb	85
112) Trielution Dichlorotol...	13.071	125	737706	59.91	ppb	96
113) 1,3,5 Trichlorobenzene	13.126	180	206692	19.18	ppb	96
114) Coelution Dichlorotoluene	13.400	125	534855	40.21	ppb	98
115) 1,2,4-Tcbenzene	13.607	180	193857	19.81	ppb	92
116) Hexachlorobt	13.747	225	77980	18.86	ppb	90
117) Naphthalen	13.796	128	347232	20.48	ppb	97
118) 1,2,3-Tclbenzene	13.985	180	167310	19.84	ppb	97
119) 2,4,5-Trichlorotolene	14.570	159	119563	20.17	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	103280	18.82	ppb	99

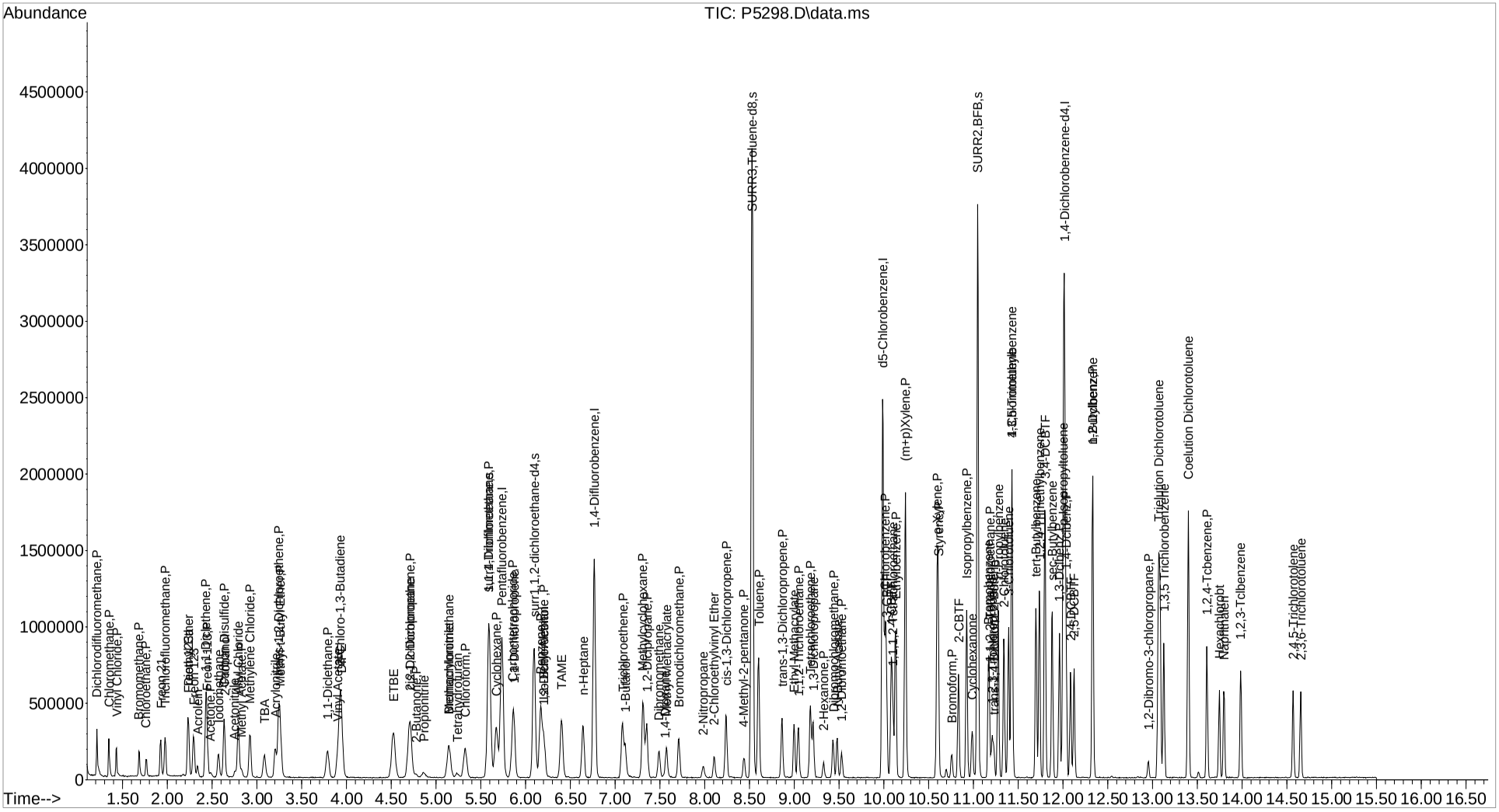
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5298.D
Acq On : 26 Sep 2016 7:18 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 10:03:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

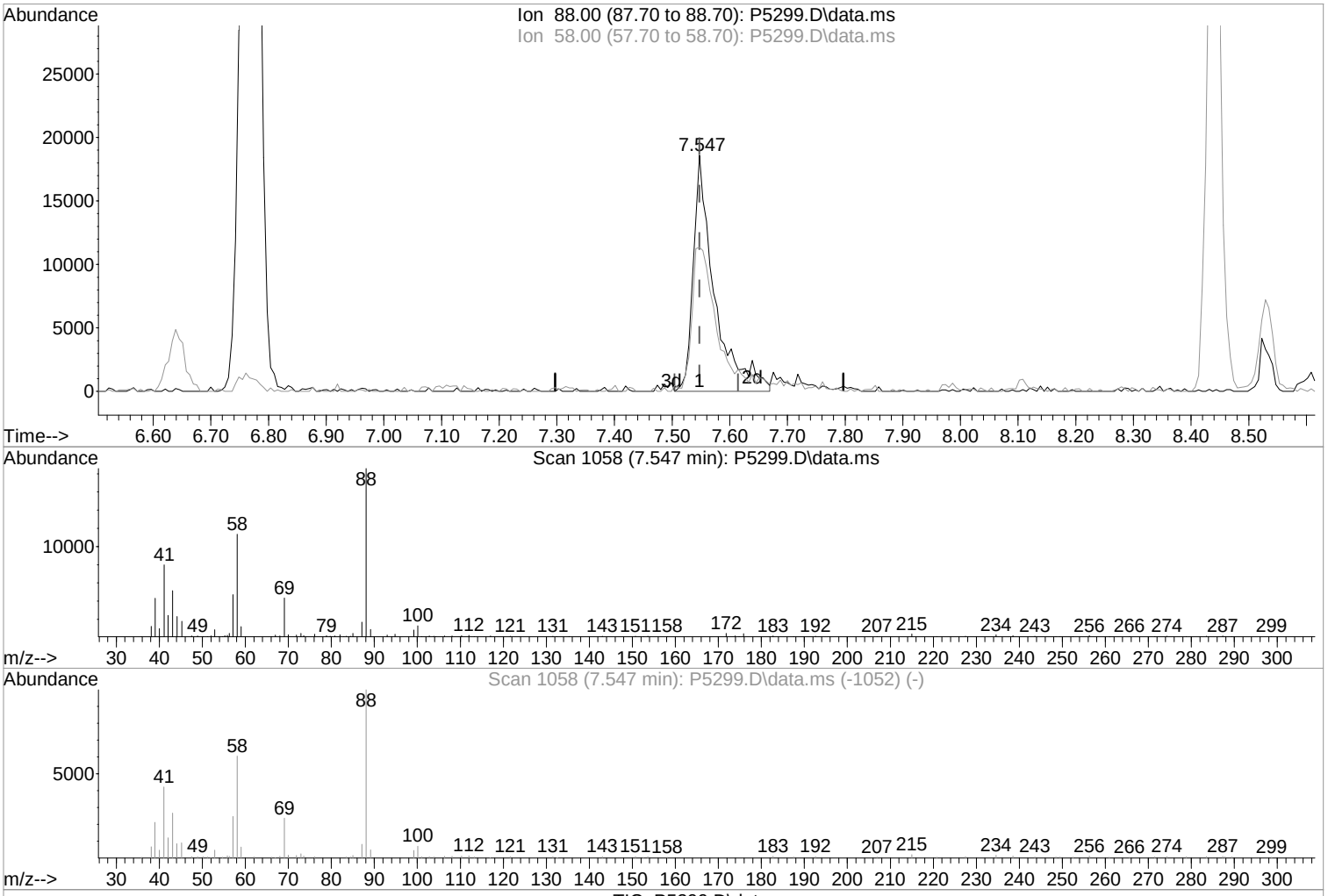
1st 09/27/16
2nd 09/27/16



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5299.D
Acq On : 26 Sep 2016 7:49 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:03:32 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5299.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 981.95 ppb m

response 47453

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	61.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

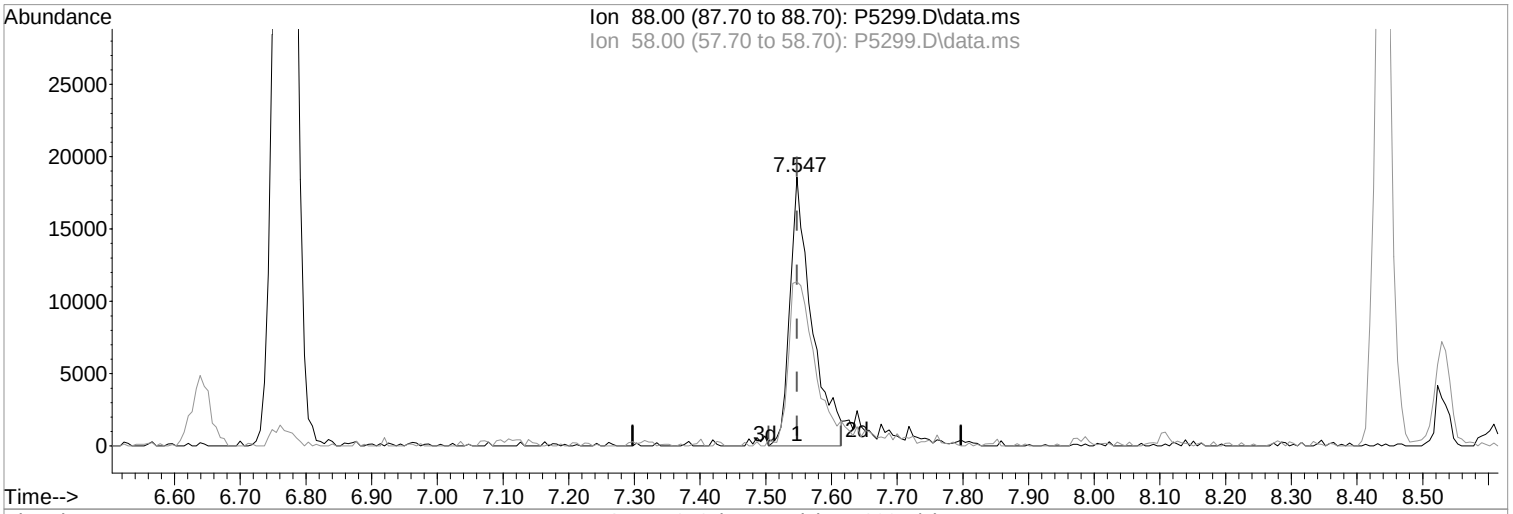
Split Peak

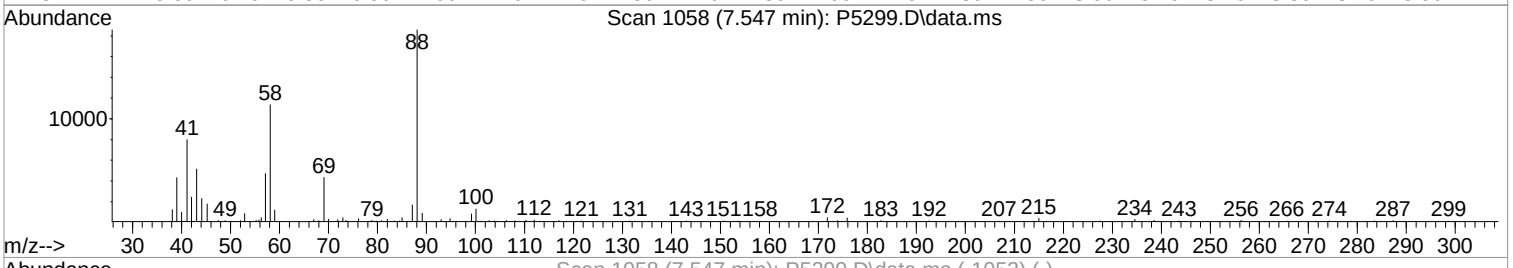
09/27/16

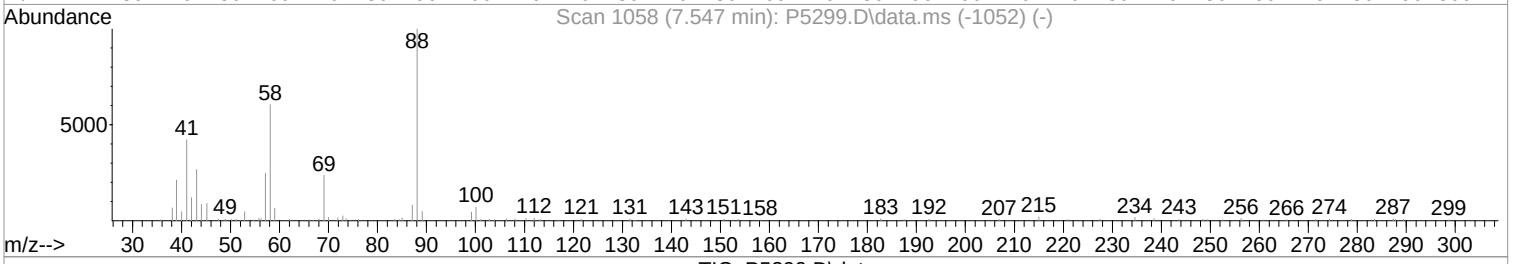
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5299.D
Acq On : 26 Sep 2016 7:49 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:03:32 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5299.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 891.87 ppb

response 43100

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	61.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5299.D
Acq On : 26 Sep 2016 7:49 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:43:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	786934	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1217230	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1147323	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	643612	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	363210	55.91	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 111.82%			
48) surr1,1,2-dichloroetha...	6.096	65	402327	54.52	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.04%			
65) SURR3,Toluene-d8	8.529	98	1494277	56.13	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.26%			
70) SURR2,BFB	11.047	95	582869	56.12	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 112.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	441389	51.75	ppb	100
3) Chloromethane	1.347	50	374273	51.33	ppb	100
4) Vinyl Chloride	1.433	62	308817	49.60	ppb	100
5) Bromomethane	1.683	94	167508	41.53	ppb	100
6) Chloroethane	1.768	64	162853	45.73	ppb	100
7) Freon 21	1.927	67	355558	43.10	ppb	100
8) Trichlorofluoromethane	1.975	101	361568	50.17	ppb	100
9) Diethyl Ether	2.231	59	160809	50.58	ppb	100
10) Freon 123a	2.237	67	215855	42.36	ppb	100
11) Freon 123	2.292	83	268250	41.21	ppb	100
12) Acrolein	2.335	56	111393	258.96	ppb	100
13) 1,1-Diclethene	2.426	96	262256	47.91	ppb	100
14) Freon 113	2.439	101	283554	48.87	ppb	100
15) Acetone	2.487	43	63928	49.99	ppb	100
16) 2-Propanol	2.640	45	288205	1052.98	ppb	100
17) Iodomethane	2.567	142	429954	58.46	ppb	100
18) Carbon Disulfide	2.634	76	858002	49.81	ppb	100
19) Acetonitrile	2.756	40	57616	240.14	ppb	100
20) Allyl Chloride	2.792	76	162842	51.12	ppb	100
21) Methyl Acetate	2.829	43	150791	51.87	ppb	100
22) Methylene Chloride	2.920	84	282117	48.05	ppb	100
23) TBA	3.085	59	458856	1052.94	ppb	100
24) Acrylonitrile	3.207	53	375712	248.73	ppb	100
25) Methyl-t-Butyl Ether	3.262	73	787913	51.21	ppb	100
26) trans-1,2-Dichloroethene	3.243	96	291764	47.42	ppb	100
28) 1,1-Diclethane	3.792	63	503694	49.30	ppb	100
29) Vinyl Acetate	3.908	86	50097	54.58	ppb	100
30) DIPE	3.944	45	1021077	50.76	ppb	100
31) 2-Chloro-1,3-Butadiene	3.926	53	479636	49.67	ppb	100
32) ETBE	4.524	59	937706	52.45	ppb	100
33) 2,2-Dichloropropane	4.700	77	443910	47.56	ppb	100
34) cis-1,2-Dichloroethene	4.713	96	313713	49.96	ppb	100
35) 2-Butanone	4.767	43	92355	52.40	ppb	100
36) Propionitrile	4.865	54	135028	257.51	ppb	100
37) Bromochloromethane	5.139	130	183813	51.12	ppb	100
38) Methacrylonitrile	5.152	67	89334	50.47	ppb	100
39) Tetrahydrofuran	5.243	42	61651	47.06	ppb	100
40) Chloroform	5.328	83	488073	49.06	ppb	100
41) 1,1,1-Trichloroethane	5.597	97	437267	47.66	ppb	100

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5299.D
Acq On : 26 Sep 2016 7:49 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:43:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.401	73	838647	51.88	ppb	100
44) Cyclohexane	5.676	41	289488	44.21	ppb	100
46) Carbontetrachloride	5.859	121	122201	47.68	ppb	100
47) 1,1-Dichloropropene	5.871	75	416875	50.14	ppb	100
49) Benzene	6.170	78	1113749	49.23	ppb	100
50) 1,2-Dichloroethane	6.212	62	373888	50.88	ppb	100
51) Iso-Butyl Alcohol	6.200	43	209653	1059.36	ppb	100
52) n-Heptane	6.639	43	402179	49.45	ppb	100
53) 1-Butanol	7.115	56	321740	2773.72	ppb	100
54) Trichloroethene	7.084	130	317730	49.69	ppb	100
55) Methylcyclohexane	7.310	55	351410	43.72	ppb	100
56) 1,2-Diclpropane	7.352	63	304650	50.26	ppb	100
57) Dibromomethane	7.486	93	155919	48.73	ppb	100
58) 1,4-Dioxane	7.547	88	47453m	981.95	ppb	
59) Methyl Methacrylate	7.578	69	167303	50.18	ppb	100
60) Bromodichloromethane	7.712	83	382249	49.20	ppb	100
61) 2-Nitropropane	7.986	41	118118	100.23	ppb	100
62) 2-Chloroethylvinyl Ether	8.108	63	134388	52.38	ppb	100
63) cis-1,3-Dichloropropene	8.242	75	499698	51.32	ppb	100
64) 4-Methyl-2-pentanone	8.437	43	214454	53.36	ppb	100
66) Toluene	8.602	91	1269490	50.50	ppb	100
67) trans-1,3-Dichloropropene	8.864	75	434687	49.80	ppb	100
68) Ethyl Methacrylate	8.998	69	356524	52.75	ppb	100
69) 1,1,2-Trichloroethane	9.047	97	225886	50.80	ppb	100
72) Tetrachloroethene	9.181	164	249494	48.43	ppb	100
73) 2-Hexanone	9.328	43	153219	53.07	ppb	100
74) 1,3-Dichloropropane	9.212	76	417720	51.29	ppb	100
75) Dibromochloromethane	9.431	129	273663	51.21	ppb	100
76) N-Butyl Acetate	9.480	43	408208	51.06	ppb	100
77) 1,2-Dibromoethane	9.529	107	230912	51.82	ppb	100
78) Chlorobenzene	10.016	112	847325	49.70	ppb	100
79) 3-CBTF	10.029	180	457822	48.57	ppb	100
80) 4-CBTF	10.083	180	414903	48.68	ppb	100
81) 1,1,1,2-Tetrachloroethane	10.102	131	310208	51.03	ppb	100
82) Ethylbenzene	10.132	106	461405	49.66	ppb	100
83) (m+p)Xylene	10.242	106	1128201	100.60	ppb	100
84) o-Xylene	10.596	106	573459	49.97	ppb	100
85) Styrene	10.608	104	969282	51.64	ppb	100
87) Bromoform	10.760	173	156306	51.91	ppb	100
88) 2-CBTF	10.833	180	459030	48.11	ppb	100
89) Isopropylbenzene	10.925	105	1436990	49.53	ppb	100
90) Cyclohexanone	10.986	55	256013	902.56	ppb	100
91) trans-1,4-Dichloro-2-B...	11.230	53	83317	52.32	ppb	100
92) 1,1,2,2-Tetrachloroethane	11.181	83	266354	49.99	ppb	100
93) Bromobenzene	11.169	156	383240	49.79	ppb	100
94) 1,2,3-Trichloropropane	11.211	110	85711	50.64	ppb	100
95) n-Propylbenzene	11.278	91	1709420	50.55	ppb	100
96) 2-Chlorotoluene	11.339	91	992956	49.66	ppb	100
97) 3-Chlorotoluene	11.394	91	1016137	49.31	ppb	100
98) 4-Chlorotoluene	11.431	91	1186649	50.24	ppb	100
99) 1,3,5-Trimethylbenzene	11.431	105	1223313	50.25	ppb	100
100) tert-Butylbenzene	11.699	119	1077019	49.82	ppb	100
101) 1,2,4-Trimethylbenzene	11.736	105	1287463	50.73	ppb	100
102) 3,4-DCBTF	11.797	214	363044	48.96	ppb	100
103) sec-Butylbenzene	11.882	105	1570126	51.41	ppb	100
104) p-Isopropyltoluene	12.004	119	1338204	50.25	ppb	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5299.D
Acq On : 26 Sep 2016 7:49 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:43:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	750822	50.73	ppb	100
106) 1,4-Dclbenz	12.034	146	732491	48.95	ppb	100
107) 2,4-DCBTF	12.083	214	336806	49.01	ppb	100
108) 2,5-DCBTF	12.126	214	366334	46.82	ppb	100
109) n-Butylbenzene	12.333	91	1198410	50.90	ppb	100
110) 1,2-Dclbenz	12.333	146	701189	50.91	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.955	157	59704	51.74	ppb	100
112) Trielution Dichlorotol...	13.071	125	1899983	151.54	ppb	100
113) 1,3,5 Trichlorobenzene	13.126	180	547189	49.86	ppb	100
114) Coelution Dichlorotoluene	13.400	125	1383168	102.12	ppb	100
115) 1,2,4-Tcbenzene	13.607	180	509626	51.14	ppb	100
116) Hexachlorobt	13.747	225	202453	48.09	ppb	100
117) Naphthalen	13.796	128	910247	52.73	ppb	100
118) 1,2,3-Tclbenzene	13.985	180	433872	50.52	ppb	100
119) 2,4,5-Trichlorotolene	14.570	159	296062	49.05	ppb	100
120) 2,3,6-Trichlorotoluene	14.656	159	267802	47.92	ppb	100

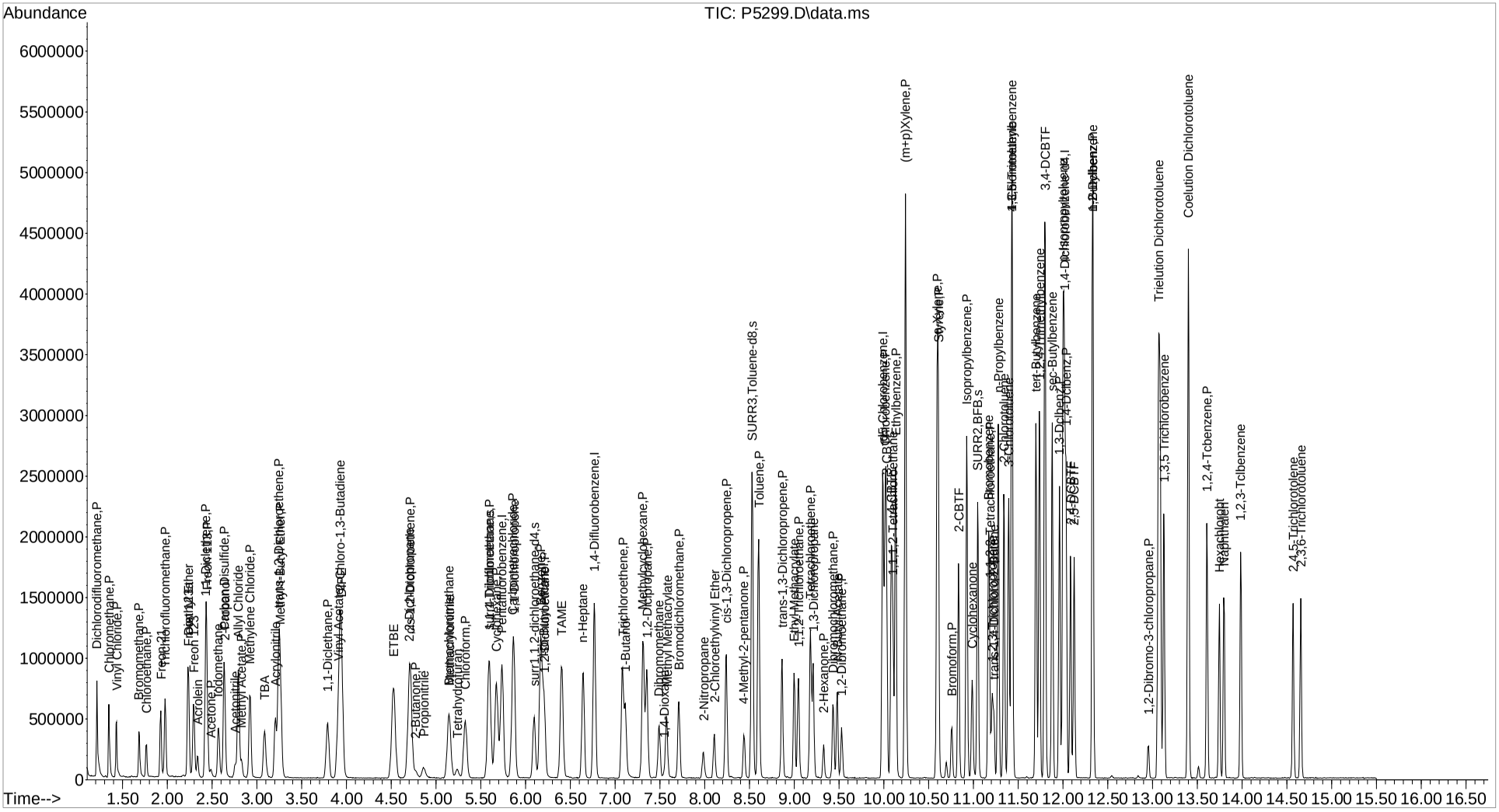
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5299.D
Acq On : 26 Sep 2016 7:49 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 10:43:12 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

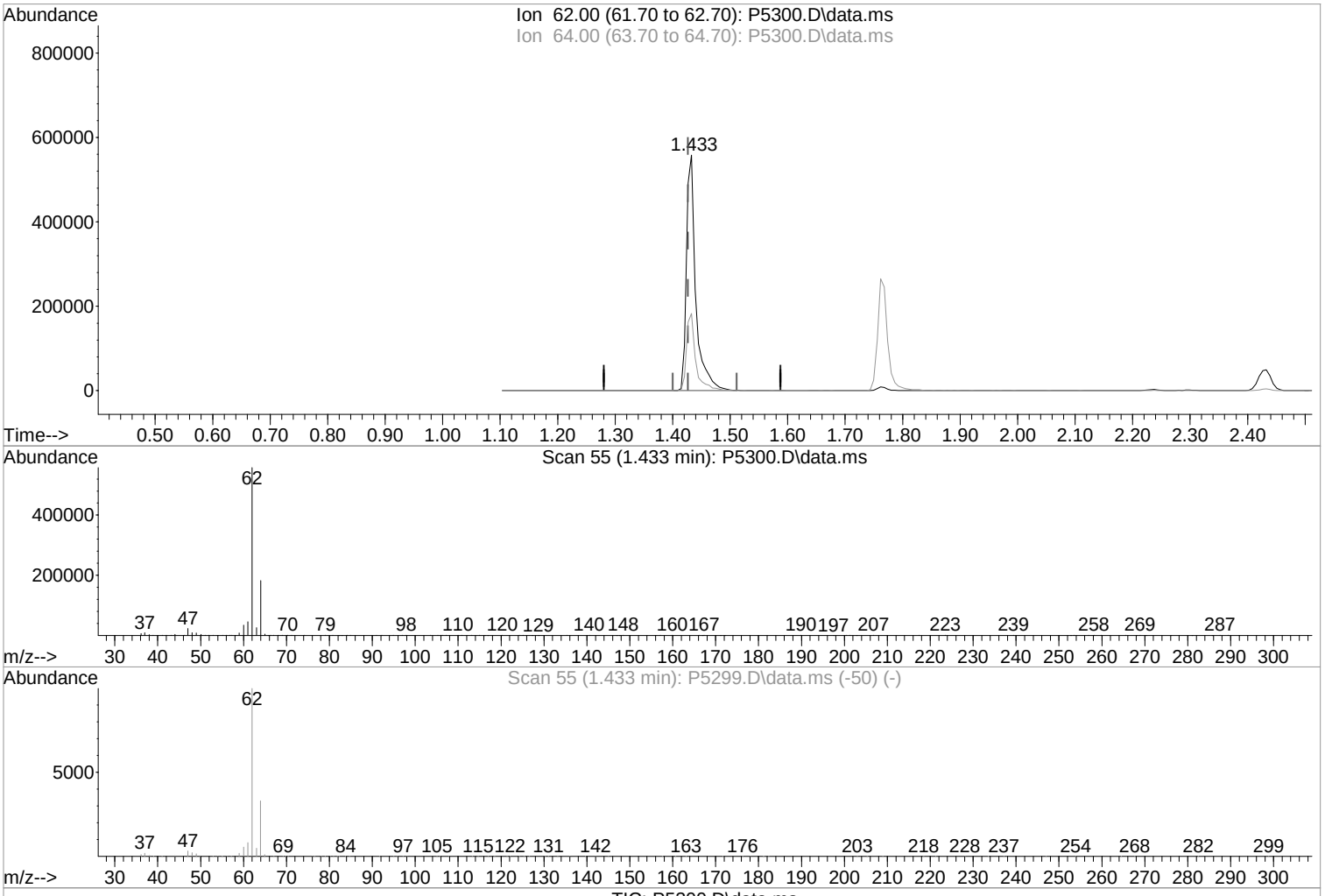
1st 09/27/16
2nd 09/27/16



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:03:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5300.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 99.09 ppb m

response 632751

Ion	Exp%	Act%
62.00	100	100
64.00	33.10	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

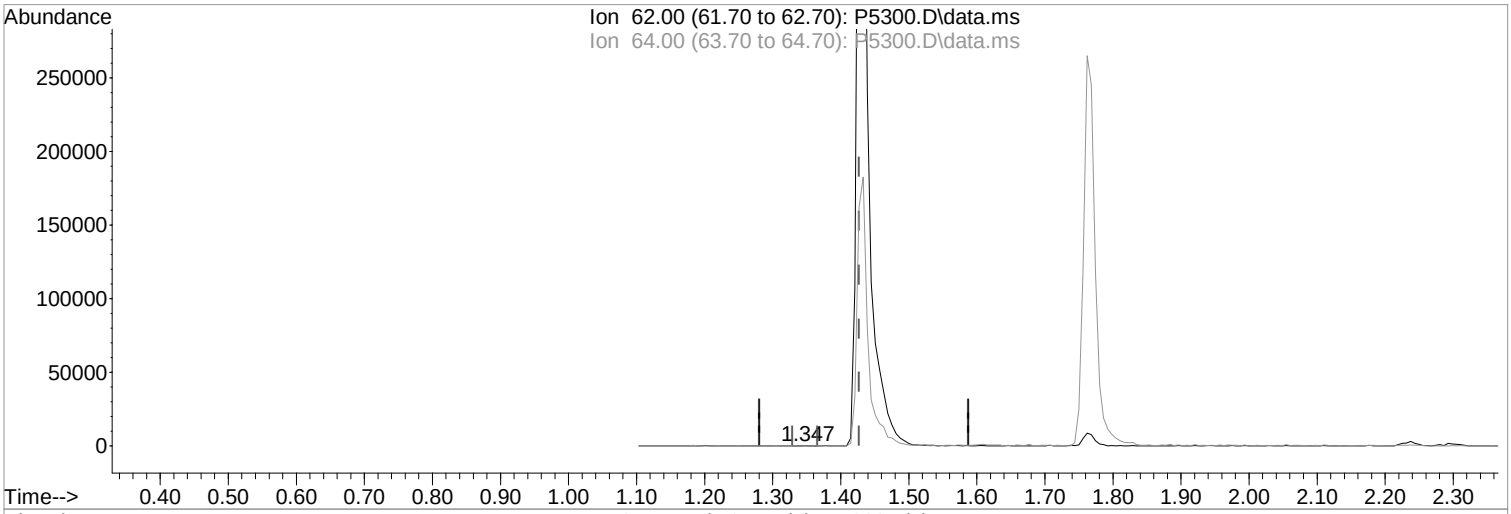
Peak not found.

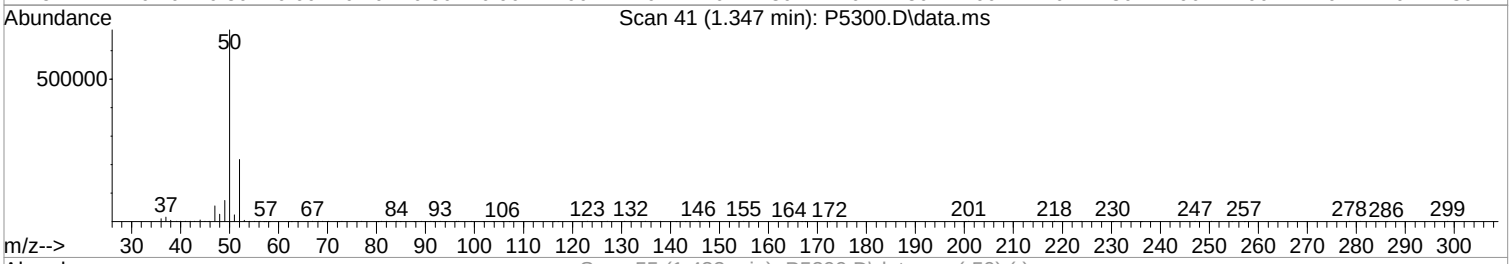
09/27/16

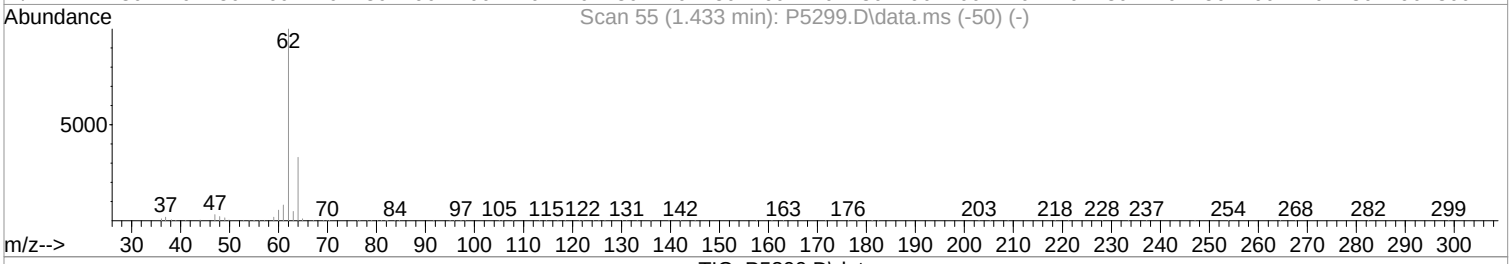
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:03:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5300.D\data.ms

(4) Vinyl Chloride (P)

1.347min (-0.079) 0.04 ppb

response 281

Ion	Exp%	Act%
62.00	100	100
64.00	33.10	51.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

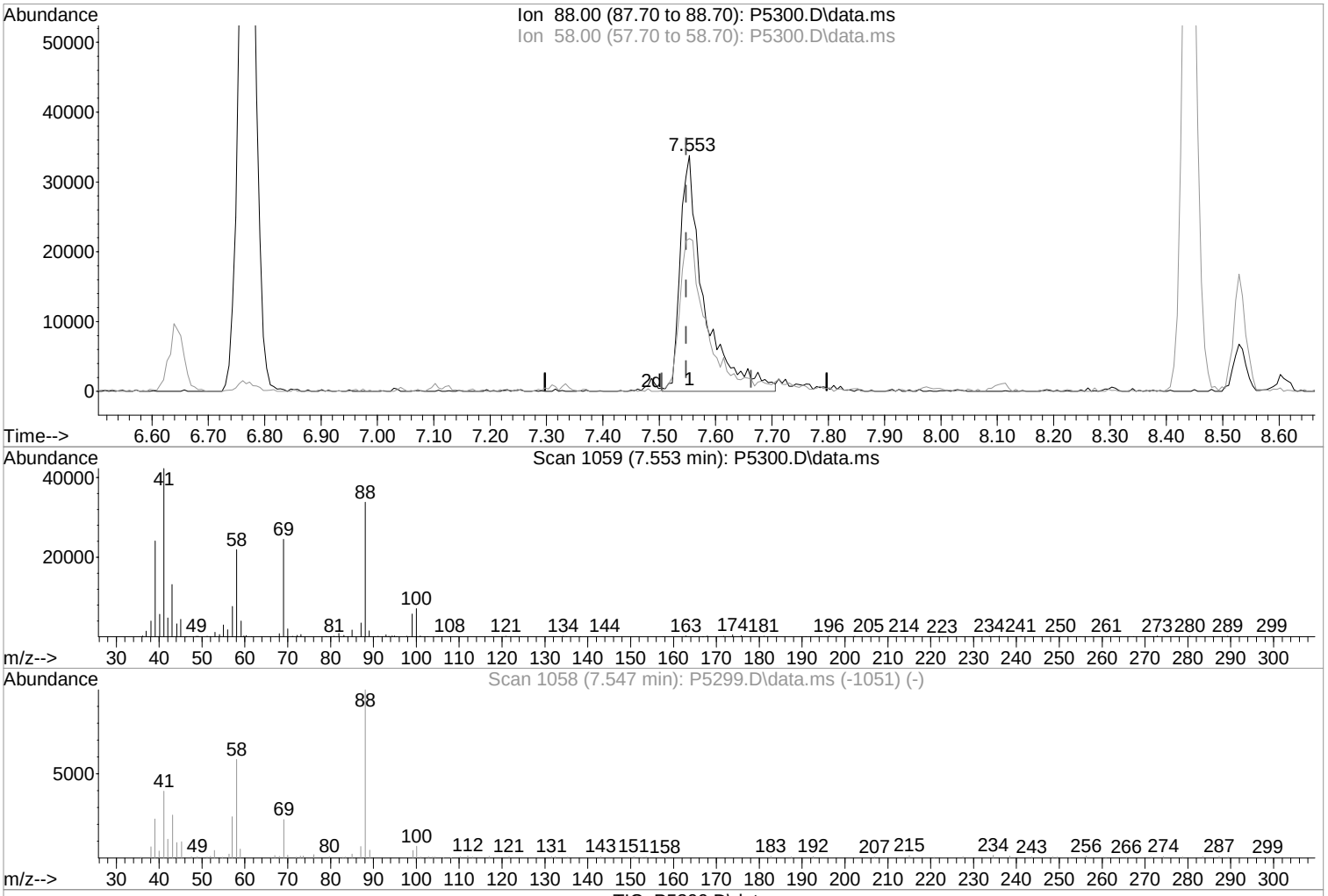
Before

09/27/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:03:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



TIC: P5300.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.006) 2038.78 ppb m

response 100326

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	64.72
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

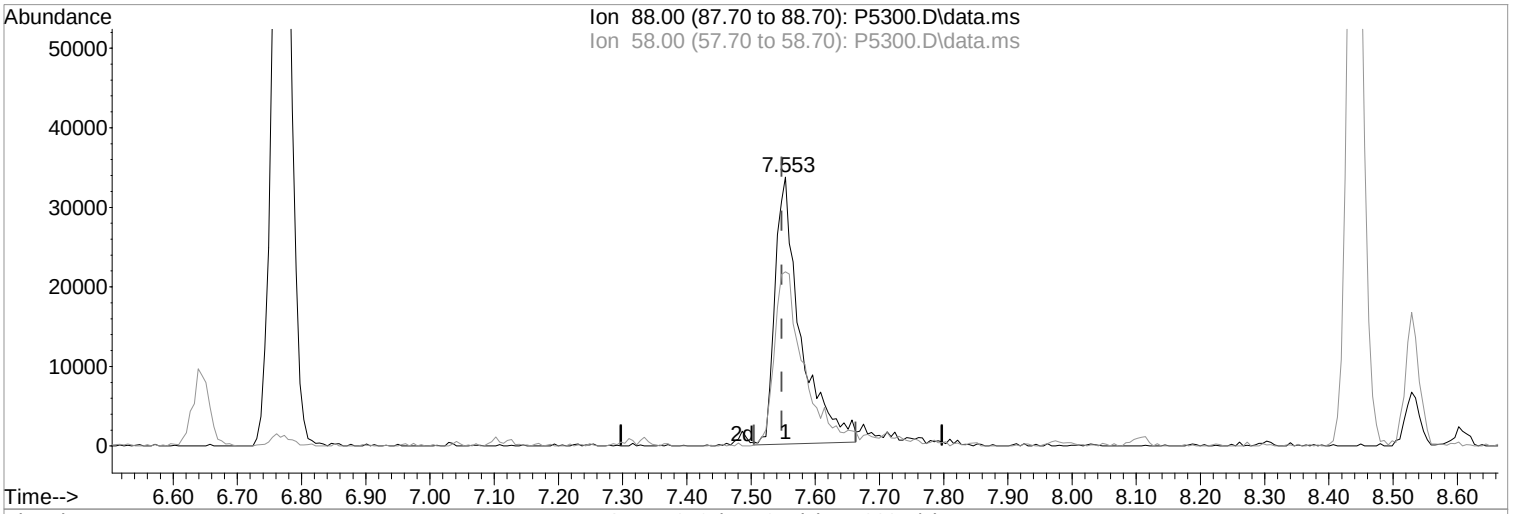
Poor integration.

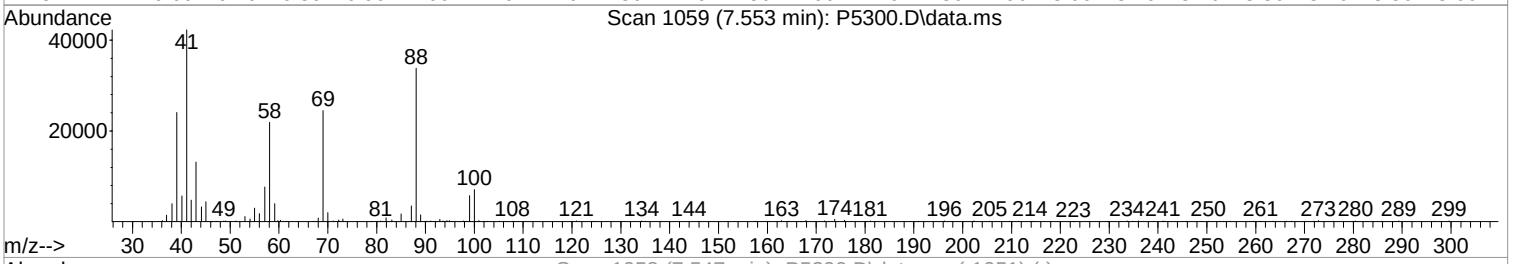
09/27/16

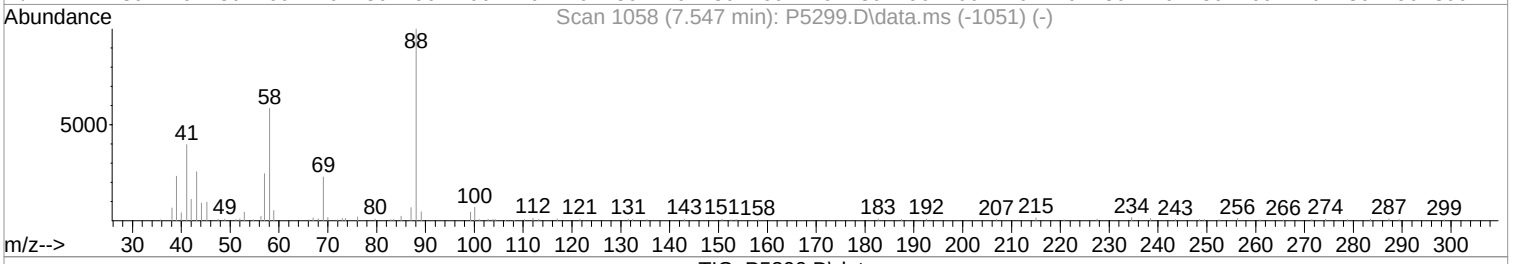
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:03:35 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration







TIC: P5300.D\data.ms

(58) 1,4-Dioxane

7.553min (+0.006) 1888.81 ppb

response 92946

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	64.72
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:45:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	807149	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1239483	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1199582	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	668838	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	780141	117.93	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 235.86%#				
48) surr1,1,2-dichloroetha...	6.096	65	879840	117.08	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 234.16%#				
65) SURR3,Toluene-d8	8.529	98	3125570	115.30	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 230.60%#				
70) SURR2,BFB	11.047	95	1244525	117.68	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 235.36%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	928257	106.11	ppb		97
3) Chloromethane	1.347	50	747009	99.88	ppb		98
4) Vinyl Chloride	1.433	62	632751m	99.09	ppb		
5) Bromomethane	1.683	94	333507	80.62	ppb		99
6) Chloroethane	1.762	64	318106	87.08	ppb		99
7) Freon 21	1.927	67	792476	93.67	ppb		98
8) Trichlorofluoromethane	1.975	101	728505	98.55	ppb		98
9) Diethyl Ether	2.231	59	318124	97.56	ppb		98
10) Freon 123a	2.237	67	470521	90.02	ppb		91
11) Freon 123	2.292	83	614220	91.99	ppb		96
12) Acrolein	2.341	56	237100	537.39	ppb		100
13) 1,1-Diclethene	2.433	96	528874	94.21	ppb		96
14) Freon 113	2.439	101	574200	96.49	ppb		95
15) Acetone	2.487	43	123169	93.91	ppb		97
16) 2-Propanol	2.646	45	591657	2107.54	ppb		94
17) Iodomethane	2.573	142	859666	113.95	ppb		99
18) Carbon Disulfide	2.634	76	1731230	97.98	ppb		99
19) Acetonitrile	2.756	40	105212	427.53	ppb		89
20) Allyl Chloride	2.792	76	228501	69.94	ppb		100
21) Methyl Acetate	2.829	43	312684	104.86	ppb		98
22) Methylene Chloride	2.920	84	567766	94.29	ppb		99
23) TBA	3.091	59	958480	2144.34	ppb		97
24) Acrylonitrile	3.207	53	770199	497.12	ppb		97
25) Methyl-t-Butyl Ether	3.262	73	1561942	98.97	ppb		98
26) trans-1,2-Dichloroethene	3.243	96	585376	92.76	ppb		95
28) 1,1-Diclethane	3.786	63	1032205	98.51	ppb		97
29) Vinyl Acetate	3.908	86	96648	102.66	ppb	#	90
30) DIPE	3.944	45	2054966	99.59	ppb		98
31) 2-Chloro-1,3-Butadiene	3.926	53	939066	94.81	ppb		99
32) ETBE	4.530	59	1895407	103.36	ppb		97
33) 2,2-Dichloropropane	4.706	77	886244	92.57	ppb		96
34) cis-1,2-Dichloroethene	4.713	96	636122	98.76	ppb		94
35) 2-Butanone	4.774	43	180260	99.72	ppb		98
36) Propionitrile	4.865	54	278365	517.56	ppb		96
37) Bromochloromethane	5.145	130	372464	100.99	ppb		94
38) Methacrylonitrile	5.158	67	172690	95.12	ppb		90
39) Tetrahydrofuran	5.237	42	131847	98.12	ppb		92
40) Chloroform	5.328	83	994089	97.43	ppb		97
41) 1,1,1-Trichloroethane	5.597	97	883952	93.94	ppb		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:45:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	TAME	6.407	73	1706736	102.94	ppb		98
44)	Cyclohexane	5.676	41	658415	98.74	ppb		100
46)	Carbontetrachloride	5.859	121	246504	94.45	ppb		95
47)	1,1-Dichloropropene	5.871	75	824195	97.35	ppb		96
49)	Benzene	6.170	78	2260702	98.14	ppb		97
50)	1,2-Dichloroethane	6.212	62	736366	98.40	ppb		97
51)	Iso-Butyl Alcohol	6.200	43	424370	2105.82	ppb		91
52)	n-Heptane	6.645	43	795488	96.05	ppb		96
53)	1-Butanol	7.121	56	658462	5574.69	ppb		99
54)	Trichloroethene	7.084	130	657490	100.99	ppb		99
55)	Methylcyclohexane	7.310	55	808091	98.72	ppb		98
56)	1,2-Diclpropane	7.352	63	612072	99.17	ppb		99
57)	Dibromomethane	7.493	93	311264	95.54	ppb		91
58)	1,4-Dioxane	7.553	88	100326m	2038.78	ppb		
59)	Methyl Methacrylate	7.572	69	337568	99.43	ppb		94
60)	Bromodichloromethane	7.712	83	771887	97.57	ppb		99
61)	2-Nitropropane	7.986	41	246522	205.44	ppb		94
62)	2-Chloroethylvinyl Ether	8.108	63	270974	103.71	ppb		96
63)	cis-1,3-Dichloropropene	8.242	75	1018994	102.77	ppb		99
64)	4-Methyl-2-pentanone	8.444	43	444451	108.59	ppb		98
66)	Toluene	8.602	91	2516908	98.32	ppb		99
67)	trans-1,3-Dichloropropene	8.864	75	903421	101.64	ppb		97
68)	Ethyl Methacrylate	8.998	69	733891	106.63	ppb		99
69)	1,1,2-Trichloroethane	9.047	97	450474	99.48	ppb		97
72)	Tetrachloroethene	9.181	164	501396	93.09	ppb		96
73)	2-Hexanone	9.328	43	307776	101.97	ppb		91
74)	1,3-Dichloropropane	9.212	76	838387	98.46	ppb		98
75)	Dibromochloromethane	9.437	129	577120	103.29	ppb		99
76)	N-Butyl Acetate	9.480	43	852377	101.97	ppb		99
77)	1,2-Dibromoethane	9.529	107	467652	100.38	ppb		99
78)	Chlorobenzene	10.016	112	1727422	96.91	ppb		97
79)	3-CBTF	10.029	180	984045	99.86	ppb		96
80)	4-CBTF	10.083	180	912910	102.45	ppb		99
81)	1,1,1,2-Tetrachloroethane	10.102	131	635497	99.99	ppb		95
82)	Ethylbenzene	10.132	106	944808	97.25	ppb	#	90
83)	(m+p)Xylene	10.242	106	2277676	194.24	ppb		90
84)	o-Xylene	10.596	106	1160652	96.73	ppb		97
85)	Styrene	10.608	104	1899528	96.80	ppb		96
87)	Bromoform	10.760	173	336274	107.46	ppb		98
88)	2-CBTF	10.833	180	976774	98.52	ppb		96
89)	Isopropylbenzene	10.925	105	2920636	96.88	ppb		99
90)	Cyclohexanone	10.992	55	623372	2114.78	ppb		97
91)	trans-1,4-Dichloro-2-B...	11.230	53	165389	99.95	ppb		98
92)	1,1,2,2-Tetrachloroethane	11.181	83	537253	97.04	ppb		98
93)	Bromobenzene	11.169	156	786502	98.32	ppb		100
94)	1,2,3-Trichloropropane	11.211	110	172300	97.95	ppb		90
95)	n-Propylbenzene	11.278	91	3355696	95.49	ppb		96
96)	2-Chlorotoluene	11.345	91	2005845	96.53	ppb		95
97)	3-Chlorotoluene	11.394	91	2108751	98.48	ppb		98
98)	4-Chlorotoluene	11.431	91	2311553	94.17	ppb		98
99)	1,3,5-Trimethylbenzene	11.431	105	2422714	95.76	ppb		98
100)	tert-Butylbenzene	11.699	119	2189859	97.47	ppb		100
101)	1,2,4-Trimethylbenzene	11.742	105	2567313	97.34	ppb		96
102)	3,4-DCBTF	11.797	214	799508	103.75	ppb		96
103)	sec-Butylbenzene	11.882	105	3076264	96.92	ppb		99
104)	p-Isopropyltoluene	12.004	119	2659153	96.10	ppb		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 10:45:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.961	146	1523671	99.07	ppb	97
106) 1,4-Dclbenz	12.034	146	1508003	96.97	ppb	98
107) 2,4-DCBTF	12.089	214	720531	100.89	ppb	96
108) 2,5-DCBTF	12.126	214	785084	96.55	ppb	99
109) n-Butylbenzene	12.333	91	2333513	95.38	ppb	98
110) 1,2-Dclbenz	12.333	146	1433775	100.18	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	124302	103.65	ppb	93
112) Trielution Dichlorotol...	13.077	125	3834687	294.31	ppb	96
113) 1,3,5 Trichlorobenzene	13.132	180	1116340	97.88	ppb	96
114) Coelution Dichlorotoluene	13.400	125	2774017	197.07	ppb	99
115) 1,2,4-Tcbenzene	13.607	180	1006755	97.21	ppb	98
116) Hexachlorobt	13.747	225	394193	90.10	ppb	95
117) Naphthalen	13.796	128	1856711	103.49	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	880716	98.68	ppb	96
119) 2,4,5-Trichlorotolene	14.570	159	611443	97.47	ppb	98
120) 2,3,6-Trichlorotoluene	14.656	159	551471	94.96	ppb	96

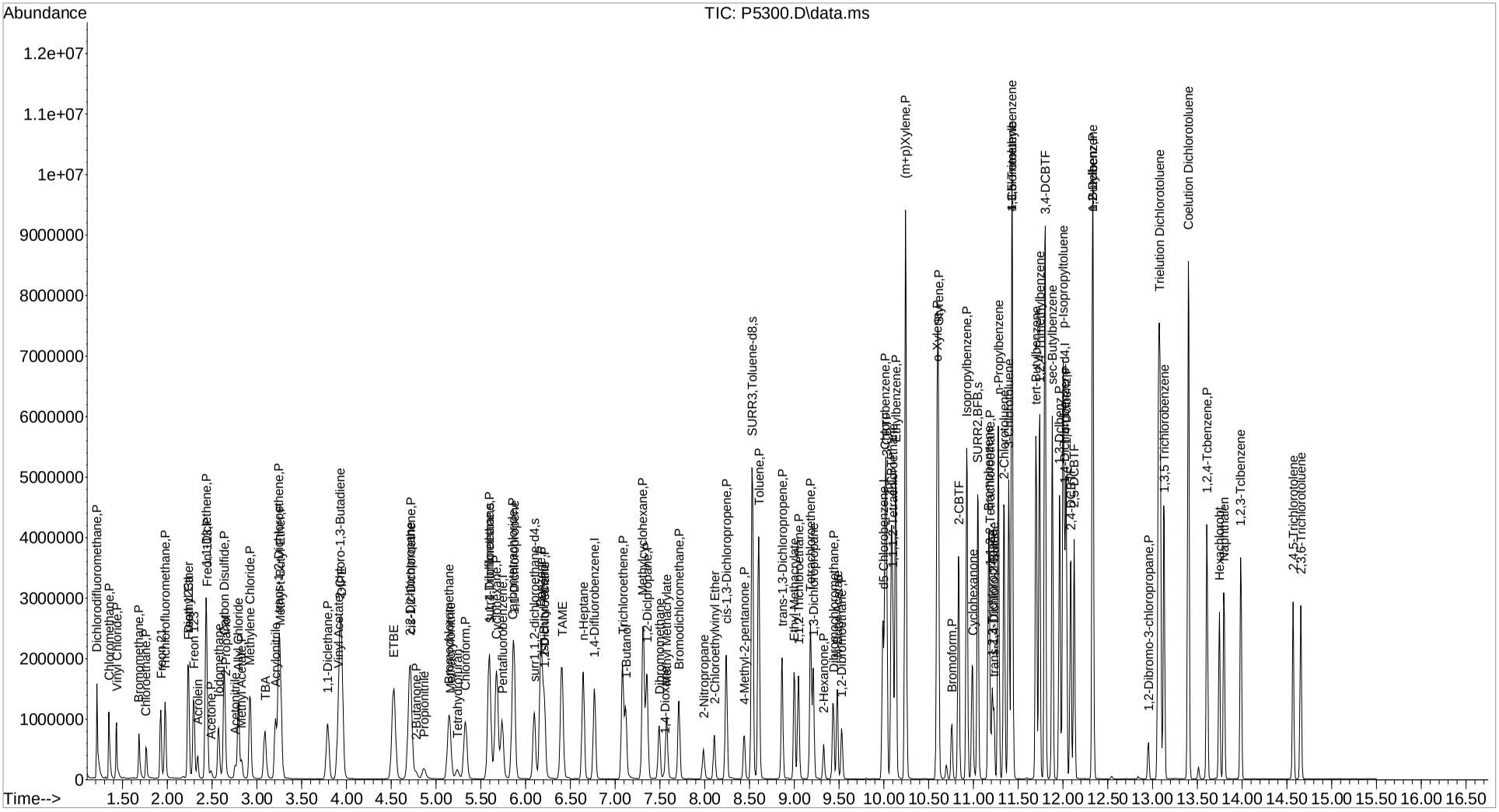
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5300.D
Acq On : 26 Sep 2016 8:19 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

1st 09/27/16
2nd 09/27/16

Quant Time: Sep 27 10:45:23 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5301.D
Acq On : 26 Sep 2016 8:50 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 10:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	815197	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1275826	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1204012	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	662759	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	923389	135.61	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 271.22%#				
48) surr1,1,2-dichloroetha...	6.096	65	1029847	133.14	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 266.28%#				
65) SURR3,Toluene-d8	8.529	98	3667721	131.45	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 262.90%#				
70) SURR2,BFB	11.047	95	1465244	134.60	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 269.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	1381248	156.33	ppb		99
3) Chloromethane	1.347	50	1126086	149.07	ppb		98
4) Vinyl Chloride	1.433	62	955605	148.17	ppb		99
5) Bromomethane	1.683	94	510029	122.08	ppb		98
6) Chloroethane	1.762	64	461519	125.10	ppb		95
7) Freon 21	1.927	67	1185746	138.76	ppb		99
8) Trichlorofluoromethane	1.975	101	1065333	142.70	ppb		97
9) Diethyl Ether	2.231	59	458233	139.14	ppb		97
10) Freon 123a	2.237	67	715113	135.47	ppb		93
11) Freon 123	2.292	83	909889	134.93	ppb		96
12) Acrolein	2.335	56	346221	776.97	ppb		99
13) 1,1-Diclethene	2.426	96	806166	142.18	ppb		94
14) Freon 113	2.439	101	867944	144.41	ppb		95
15) Acetone	2.487	43	190671	143.94	ppb		97
16) 2-Propanol	2.646	45	807366	2847.52	ppb		97
17) Iodomethane	2.573	142	1228190	161.19	ppb		100
18) Carbon Disulfide	2.634	76	2564348	143.70	ppb		99
19) Acetonitrile	2.756	40	164168	660.51	ppb		94
20) Allyl Chloride	2.792	76	401052	121.55	ppb	#	91
21) Methyl Acetate	2.829	43	457251	151.82	ppb		99
22) Methylene Chloride	2.920	84	857790	141.05	ppb		97
23) TBA	3.091	59	1343426	2975.88	ppb		100
24) Acrylonitrile	3.207	53	1121334	716.62	ppb		100
25) Methyl-t-Butyl Ether	3.262	73	2251392	141.25	ppb		96
26) trans-1,2-Dichloroethene	3.243	96	879972	138.07	ppb		98
28) 1,1-Diclethane	3.792	63	1537902	145.32	ppb		99
29) Vinyl Acetate	3.908	86	141618	148.94	ppb	#	95
30) DIPE	3.944	45	2985248	143.24	ppb		96
31) 2-Chloro-1,3-Butadiene	3.926	53	1378489	137.80	ppb		95
32) ETBE	4.530	59	2765047	149.29	ppb		99
33) 2,2-Dichloropropane	4.706	77	1324750	137.01	ppb		98
34) cis-1,2-Dichloroethene	4.713	96	949058	145.89	ppb		94
35) 2-Butanone	4.774	43	262354	143.70	ppb		91
36) Propionitrile	4.865	54	415586	765.07	ppb		91
37) Bromochloromethane	5.145	130	538355	144.52	ppb		96
38) Methacrylonitrile	5.158	67	256498	139.88	ppb		97
39) Tetrahydrofuran	5.237	42	178298	131.38	ppb		97
40) Chloroform	5.328	83	1497903	145.35	ppb		97
41) 1,1,1-Trichloroethane	5.597	97	1329795	139.92	ppb		99

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5301.D
Acq On : 26 Sep 2016 8:50 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 10:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.407	73	2460133	146.92	ppb		99
44) Cyclohexane	5.676	41	998041	145.41	ppb		100
46) Carbontetrachloride	5.859	121	381039	141.84	ppb		100
47) 1,1-Dichloropropene	5.871	75	1244955	142.85	ppb		94
49) Benzene	6.170	78	3351379	141.35	ppb		98
50) 1,2-Dichloroethane	6.212	62	1061627	137.83	ppb		99
51) Iso-Butyl Alcohol	6.206	43	590077	2844.68	ppb		97
52) n-Heptane	6.645	43	1186119	139.14	ppb		94
53) 1-Butanol	7.121	56	919390	7562.04	ppb		98
54) Trichloroethene	7.084	130	998155	148.95	ppb		97
55) Methylcyclohexane	7.316	55	1219152	144.70	ppb		93
56) 1,2-Diclpropane	7.352	63	898588	141.45	ppb		100
57) Dibromomethane	7.493	93	468482	139.70	ppb		95
58) 1,4-Dioxane	7.547	88	139390	2751.93	ppb		99
59) Methyl Methacrylate	7.578	69	498393	142.62	ppb		98
60) Bromodichloromethane	7.712	83	1159344	142.37	ppb		98
61) 2-Nitropropane	7.986	41	360755	292.07	ppb		99
62) 2-Chloroethylvinyl Ether	8.108	63	398104	148.03	ppb		99
63) cis-1,3-Dichloropropene	8.242	75	1505748	147.54	ppb		99
64) 4-Methyl-2-pentanone	8.444	43	638873	151.65	ppb		99
66) Toluene	8.602	91	3726692	141.43	ppb		98
67) trans-1,3-Dichloropropene	8.864	75	1303862	142.51	ppb		98
68) Ethyl Methacrylate	8.998	69	1049267	148.10	ppb		99
69) 1,1,2-Trichloroethane	9.047	97	670011	143.75	ppb		99
72) Tetrachloroethene	9.181	164	785774	145.36	ppb		98
73) 2-Hexanone	9.328	43	449795	148.47	ppb		95
74) 1,3-Dichloropropane	9.212	76	1219746	142.72	ppb		99
75) Dibromochloromethane	9.437	129	840076	149.80	ppb		99
76) N-Butyl Acetate	9.480	43	1196551	142.61	ppb		99
77) 1,2-Dibromoethane	9.529	107	683575	146.18	ppb		95
78) Chlorobenzene	10.016	112	2549131	142.49	ppb		96
79) 3-CBTF	10.035	180	1533782	155.07	ppb		92
80) 4-CBTF	10.083	180	1407467	157.37	ppb		99
81) 1,1,1,2-Tetrachloroethane	10.102	131	951938	149.22	ppb		93
82) Ethylbenzene	10.132	106	1402135	143.80	ppb	#	87
83) (m+p)Xylene	10.248	106	3336716	283.51	ppb	#	81
84) o-Xylene	10.596	106	1739858	144.47	ppb		91
85) Styrene	10.608	104	2779797	141.13	ppb		95
87) Bromoform	10.760	173	503625	162.42	ppb		99
88) 2-CBTF	10.839	180	1517938	154.51	ppb		99
89) Isopropylbenzene	10.925	105	4238214	141.87	ppb		97
90) Cyclohexanone	10.992	55	1014079	3471.81	ppb		95
91) trans-1,4-Dichloro-2-B...	11.230	53	238839	145.66	ppb		95
92) 1,1,2,2-Tetrachloroethane	11.181	83	755113	137.64	ppb		99
93) Bromobenzene	11.175	156	1178153	148.63	ppb		90
94) 1,2,3-Trichloropropane	11.211	110	251517	144.30	ppb		96
95) n-Propylbenzene	11.278	91	4785629	137.43	ppb		93
96) 2-Chlorotoluene	11.345	91	2990125	145.22	ppb		92
97) 3-Chlorotoluene	11.394	91	3080078	145.15	ppb		97
98) 4-Chlorotoluene	11.437	91	3288543	135.21	ppb		92
99) 1,3,5-Trimethylbenzene	11.431	105	3469422	138.39	ppb		94
100) tert-Butylbenzene	11.699	119	3256119	146.26	ppb		98
101) 1,2,4-Trimethylbenzene	11.742	105	3707918	141.88	ppb		92
102) 3,4-DCBTF	11.803	214	1205988	157.93	ppb		96
103) sec-Butylbenzene	11.882	105	4448645	141.44	ppb		96
104) p-Isopropyltoluene	12.004	119	3863657	140.90	ppb		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5301.D
Acq On : 26 Sep 2016 8:50 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 10:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.967	146	2266827	148.75	ppb	97
106) 1,4-Dclbenz	12.034	146	2201766	142.88	ppb	98
107) 2,4-DCBTF	12.089	214	1100212	155.46	ppb	96
108) 2,5-DCBTF	12.126	214	1200930	149.05	ppb	98
109) n-Butylbenzene	12.333	91	3393318	139.96	ppb	96
110) 1,2-Dclbenz	12.339	146	2073031	146.17	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	181913	153.08	ppb	88
112) Trielution Dichlorotol...	13.077	125	5528465	428.20	ppb	94
113) 1,3,5 Trichlorobenzene	13.132	180	1665900	147.40	ppb	95
114) Coelution Dichlorotoluene	13.400	125	3937409	282.29	ppb	96
115) 1,2,4-Tcbenzene	13.607	180	1489542	145.15	ppb	98
116) Hexachlorobt	13.747	225	613060	141.41	ppb	95
117) Naphthalen	13.796	128	2610629	146.85	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	1256504	142.08	ppb	97
119) 2,4,5-Trichlorotolene	14.570	159	916220	147.40	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	827019	143.71	ppb	96

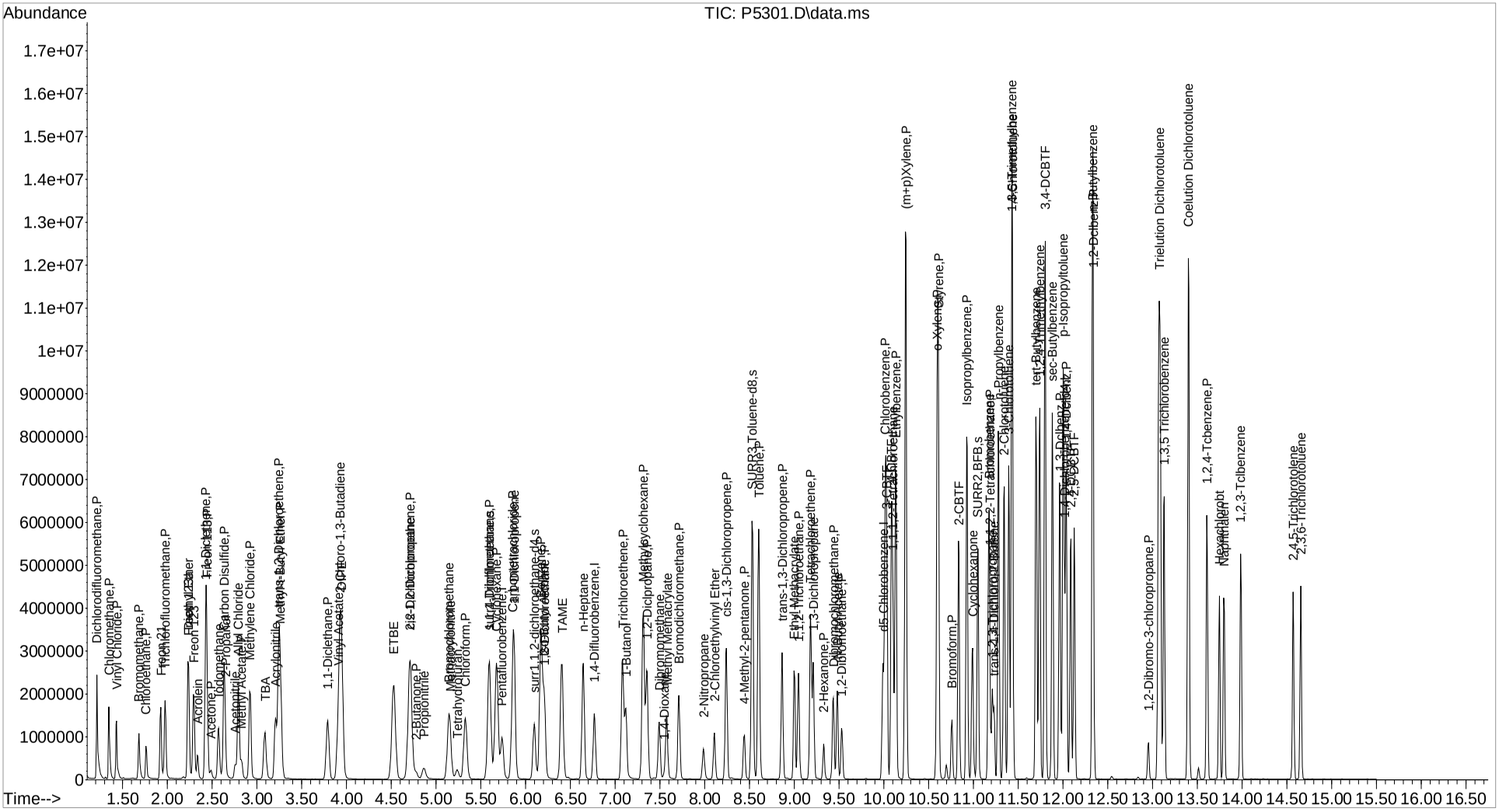
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 09/27/16
2nd 09/27/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5301.D
Acq On : 26 Sep 2016 8:50 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 10:03:38 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5302.D
Acq On : 26 Sep 2016 9:21 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 10:03:41 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	841686	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1315967	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1244220	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	661384	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.591	113	374105	53.27	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.54%				
48) surr1,1,2-dichloroetha...	6.097	65	412098	51.65	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.30%				
65) SURR3,Toluene-d8	8.529	98	1618376	56.23	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.46%				
70) SURR2,BFB	11.047	95	631426	56.24	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 112.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	1781080	195.24	ppb		100
3) Chloromethane	1.347	50	1521220	195.05	ppb		96
4) Vinyl Chloride	1.427	62	1241428	186.43	ppb		98
5) Bromomethane	1.683	94	678742	157.35	ppb		98
6) Chloroethane	1.762	64	607821	159.57	ppb		95
7) Freon 21	1.927	67	1586563	179.83	ppb		97
8) Trichlorofluoromethane	1.975	101	1420720	184.31	ppb		99
9) Diethyl Ether	2.225	59	620139	182.38	ppb		96
10) Freon 123a	2.238	67	943547	173.12	ppb		93
11) Freon 123	2.292	83	1209489	173.71	ppb		97
12) Acrolein	2.335	56	475331	1033.14	ppb		95
13) 1,1-Diclethene	2.426	96	1075965	183.79	ppb		95
14) Freon 113	2.439	101	1124265	181.16	ppb		97
15) Acetone	2.481	43	239352	175.01	ppb		94
16) 2-Propanol	2.640	45	1066884	3644.40	ppb		99
17) Iodomethane	2.567	142	1614271	205.19	ppb		100
18) Carbon Disulfide	2.634	76	3378102	183.35	ppb		99
19) Acetonitrile	2.756	40	203129	791.54	ppb		93
20) Allyl Chloride	2.792	76	587424	172.43	ppb	#	86
21) Methyl Acetate	2.829	43	612690	197.03	ppb		98
22) Methylene Chloride	2.920	84	1148545	182.91	ppb		99
23) TBA	3.085	59	1753172	3761.31	ppb		97
24) Acrylonitrile	3.207	53	1496593	926.34	ppb		97
25) Methyl-t-Butyl Ether	3.262	73	2935508	178.38	ppb		97
26) trans-1,2-Dichloroethene	3.243	96	1178316	179.06	ppb		98
28) 1,1-Diclethane	3.786	63	2068343	189.29	ppb		97
29) Vinyl Acetate	3.902	86	197275	200.95	ppb	#	89
30) DIPE	3.945	45	3907479	181.60	ppb		95
31) 2-Chloro-1,3-Butadiene	3.926	53	1819513	176.17	ppb		97
32) ETBE	4.524	59	3735653	195.35	ppb		98
33) 2,2-Dichloropropane	4.700	77	1713099	171.60	ppb		96
34) cis-1,2-Dichloroethene	4.713	96	1277344	190.18	ppb		97
35) 2-Butanone	4.774	43	344203	182.59	ppb		93
36) Propionitrile	4.865	54	557218	993.52	ppb		94
37) Bromochloromethane	5.139	130	740329	192.49	ppb		98
38) Methacrylonitrile	5.152	67	337381	178.20	ppb		96
39) Tetrahydrofuran	5.237	42	258131	184.22	ppb		97
40) Chloroform	5.328	83	2011460	189.04	ppb		97
41) 1,1,1-Trichloroethane	5.597	97	1783652	181.77	ppb		98

1st 09/27/16
2nd 09/27/16

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5302.D
Acq On : 26 Sep 2016 9:21 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 10:03:41 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	6.401	73	3324299	192.28	ppb		99
44) Cyclohexane	5.676	41	1299430	183.54	ppb		98
46) Carbontetrachloride	5.859	121	494282	178.39	ppb		98
47) 1,1-Dichloropropene	5.871	75	1629290	181.25	ppb		95
49) Benzene	6.170	78	4446422	181.81	ppb		98
50) 1,2-Dichloroethane	6.206	62	1410295	177.51	ppb		99
51) Iso-Butyl Alcohol	6.206	43	769753	3597.68	ppb		95
52) n-Heptane	6.645	43	1573941	179.00	ppb		93
53) 1-Butanol	7.121	56	1216446	9700.15	ppb		98
54) Trichloroethene	7.078	130	1338916	193.70	ppb		98
55) Methylcyclohexane	7.310	55	1601632	184.30	ppb		98
56) 1,2-Diclpropane	7.352	63	1204307	183.79	ppb		100
57) Dibromomethane	7.486	93	623251	180.18	ppb		99
58) 1,4-Dioxane	7.547	88	200424	3836.21	ppb		90
59) Methyl Methacrylate	7.578	69	657281	182.34	ppb		98
60) Bromodichloromethane	7.712	83	1576158	187.65	ppb		97
61) 2-Nitropropane	7.986	41	492510	386.58	ppb		96
62) 2-Chloroethylvinyl Ether	8.108	63	532492	191.97	ppb		95
63) cis-1,3-Dichloropropene	8.242	75	2032615	193.09	ppb		96
64) 4-Methyl-2-pentanone	8.438	43	839838	193.27	ppb		98
66) Toluene	8.602	91	4846890	178.33	ppb		97
67) trans-1,3-Dichloropropene	8.864	75	1736076	183.96	ppb		98
68) Ethyl Methacrylate	8.998	69	1400438	191.64	ppb		98
69) 1,1,2-Trichloroethane	9.047	97	910514	189.39	ppb		98
72) Tetrachloroethene	9.181	164	1037677	185.75	ppb		98
73) 2-Hexanone	9.328	43	587369	187.62	ppb		94
74) 1,3-Dichloropropane	9.212	76	1604824	181.71	ppb		99
75) Dibromochloromethane	9.437	129	1163761	200.81	ppb		99
76) N-Butyl Acetate	9.480	43	1577399	181.93	ppb		98
77) 1,2-Dibromoethane	9.529	107	926187	191.66	ppb		100
78) Chlorobenzene	10.016	112	3388588	183.29	ppb		95
79) 3-CBTF	10.035	180	2001543	195.82	ppb		91
80) 4-CBTF	10.084	180	1852342	200.42	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.102	131	1267763	192.31	ppb		96
82) Ethylbenzene	10.132	106	1840719	182.68	ppb	#	78
83) (m+p)Xylene	10.248	106	4266148	350.77	ppb	#	73
84) o-Xylene	10.596	106	2289357	183.95	ppb		88
85) Styrene	10.608	104	3534677	173.66	ppb		93
87) Bromoform	10.760	173	686220	221.76	ppb		99
88) 2-CBTF	10.839	180	2023182	206.37	ppb		98
89) Isopropylbenzene	10.925	105	5286886	177.34	ppb		94
90) Cyclohexanone	10.992	55	1247939	4281.34	ppb		94
91) trans-1,4-Dichloro-2-B...	11.230	53	323417	197.65	ppb		99
92) 1,1,2,2-Tetrachloroethane	11.181	83	987265	180.33	ppb		99
93) Bromobenzene	11.175	156	1571240	198.63	ppb		90
94) 1,2,3-Trichloropropane	11.211	110	335744	193.02	ppb		96
95) n-Propylbenzene	11.278	91	5827390	167.70	ppb		89
96) 2-Chlorotoluene	11.345	91	3807156	185.29	ppb		89
97) 3-Chlorotoluene	11.394	91	3966691	187.33	ppb		92
98) 4-Chlorotoluene	11.437	91	4100191	168.93	ppb		89
99) 1,3,5-Trimethylbenzene	11.431	105	4345584	173.70	ppb		92
100) tert-Butylbenzene	11.699	119	4151220	186.86	ppb		96
101) 1,2,4-Trimethylbenzene	11.742	105	4602805	176.49	ppb		86
102) 3,4-DCBTF	11.803	214	1608374	211.06	ppb		98
103) sec-Butylbenzene	11.882	105	5520262	175.88	ppb		91
104) p-Isopropyltoluene	12.004	119	4781886	174.75	ppb		90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5302.D
Acq On : 26 Sep 2016 9:21 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 10:03:41 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

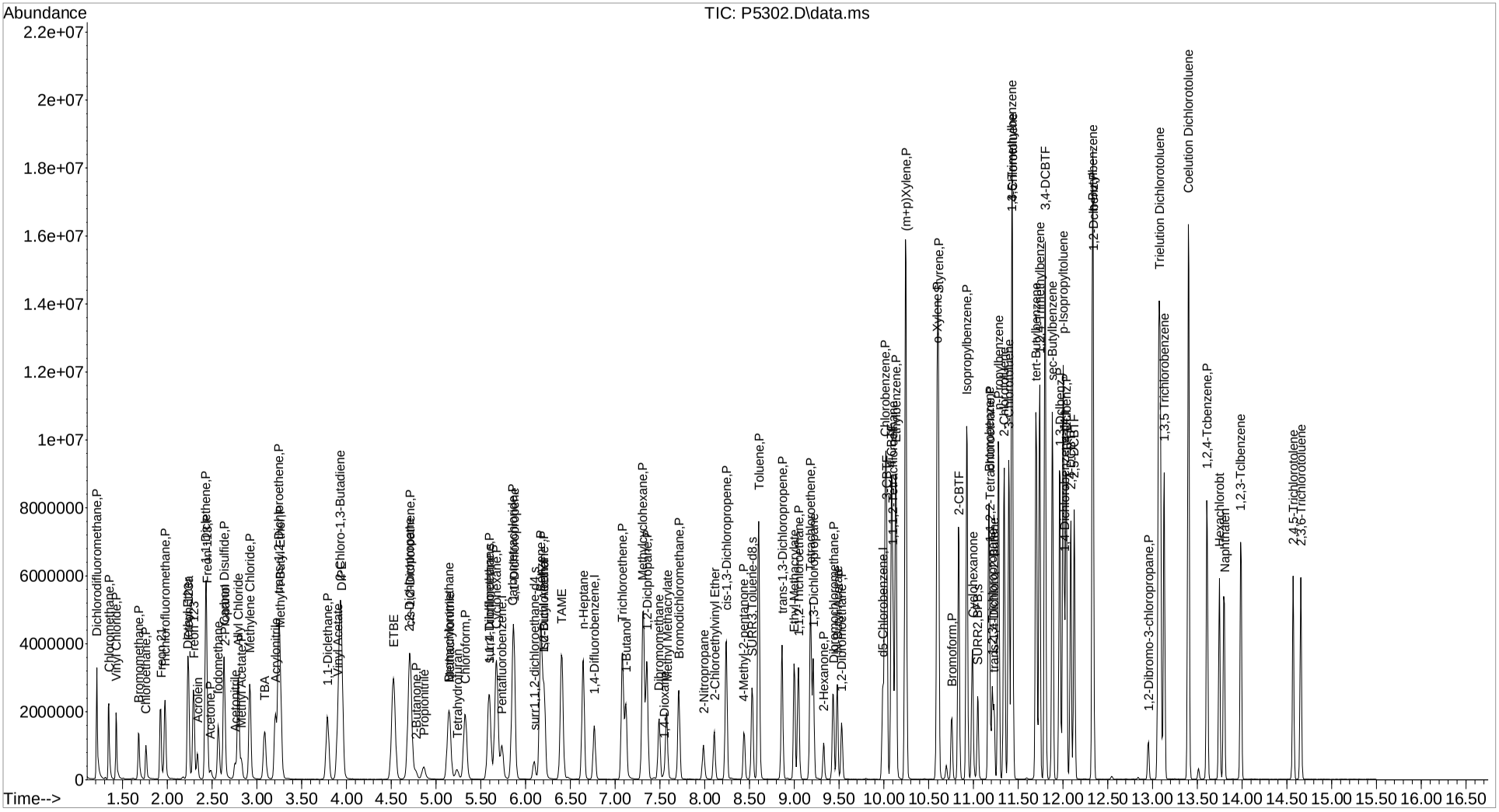
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.967	146	2990466	196.64	ppb	96
106) 1,4-Dclbenz	12.040	146	2892301	188.09	ppb	98
107) 2,4-DCBTF	12.089	214	1441693	204.14	ppb	97
108) 2,5-DCBTF	12.126	214	1622816	201.83	ppb	97
109) n-Butylbenzene	12.333	91	4216323	174.27	ppb	93
110) 1,2-Dclbenz	12.339	146	2701627	190.89	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	240771	203.03	ppb	92
112) Trielution Dichlorotol...	13.077	125	7039510	546.37	ppb	91
113) 1,3,5 Trichlorobenzene	13.132	180	2197168	194.81	ppb	97
114) Coelution Dichlorotoluene	13.400	125	4977692	357.61	ppb	92
115) 1,2,4-Tcbenzene	13.607	180	2005686	195.85	ppb	99
116) Hexachlorobt	13.747	225	839460	194.03	ppb	97
117) Naphthalen	13.802	128	3365164	189.69	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	1716855	194.53	ppb	99
119) 2,4,5-Trichlorotolene	14.570	159	1223517	197.24	ppb	97
120) 2,3,6-Trichlorotoluene	14.656	159	1103992	192.24	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5302.D
Acq On : 26 Sep 2016 9:21 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

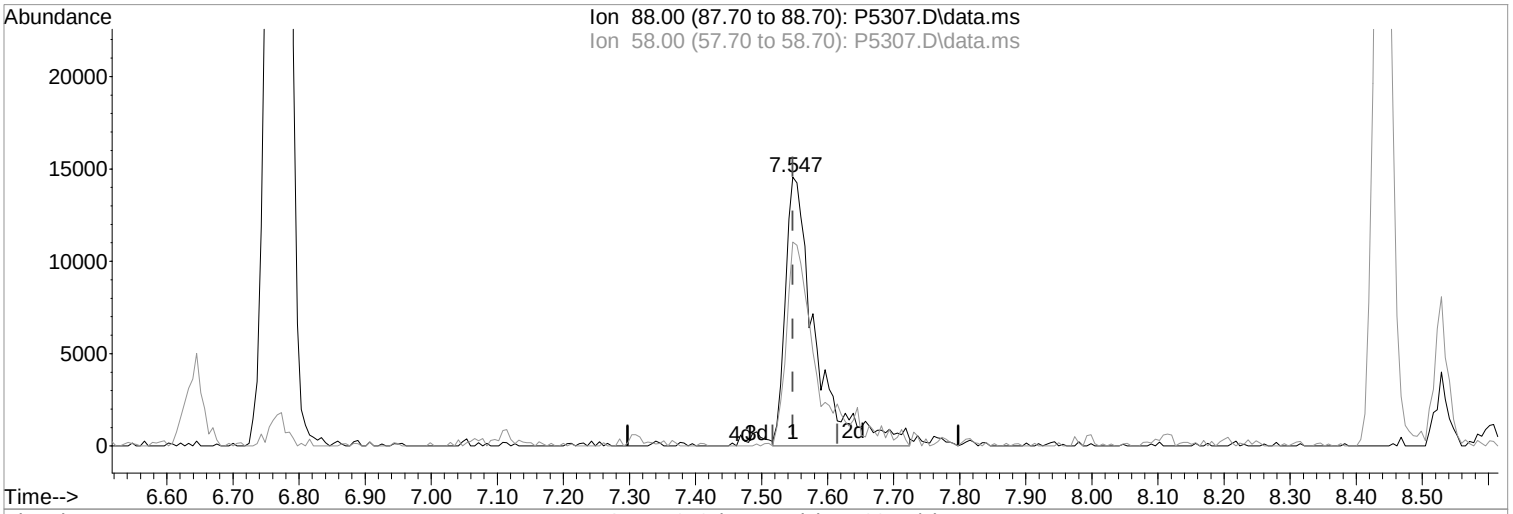
Quant Time: Sep 27 10:03:41 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 09:43:03 2016
Response via : Initial Calibration

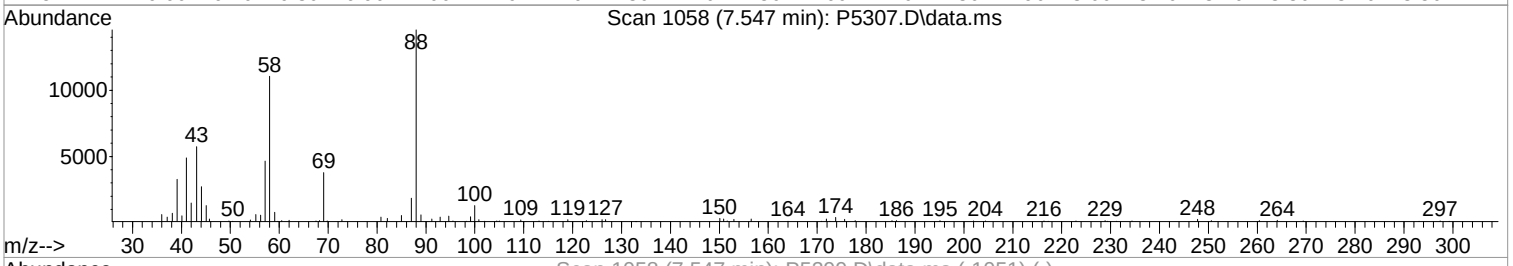


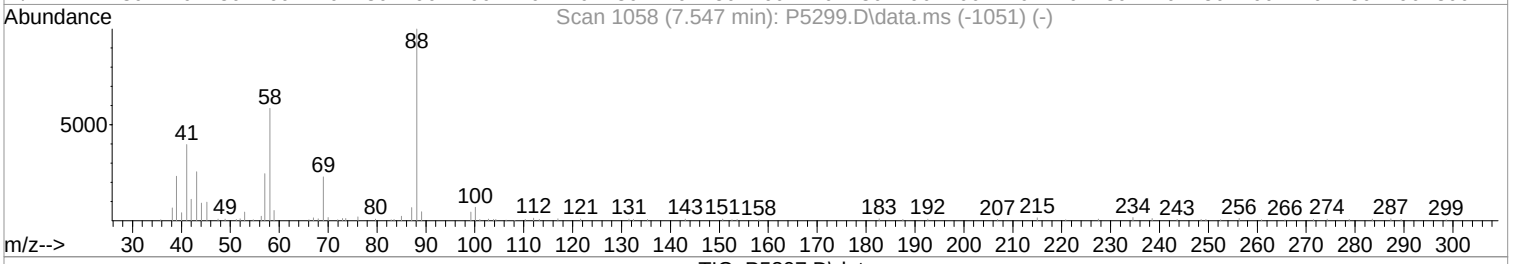
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:08:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5307.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 965.28 ppb m

response 46639

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	75.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

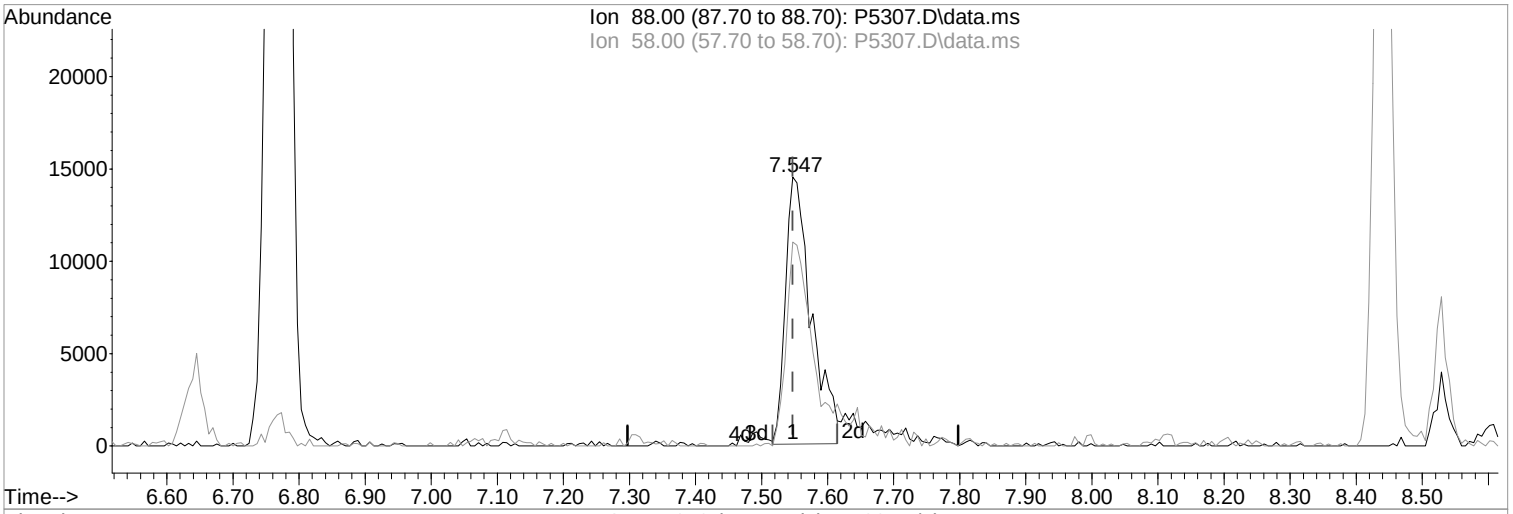
Poor integration.

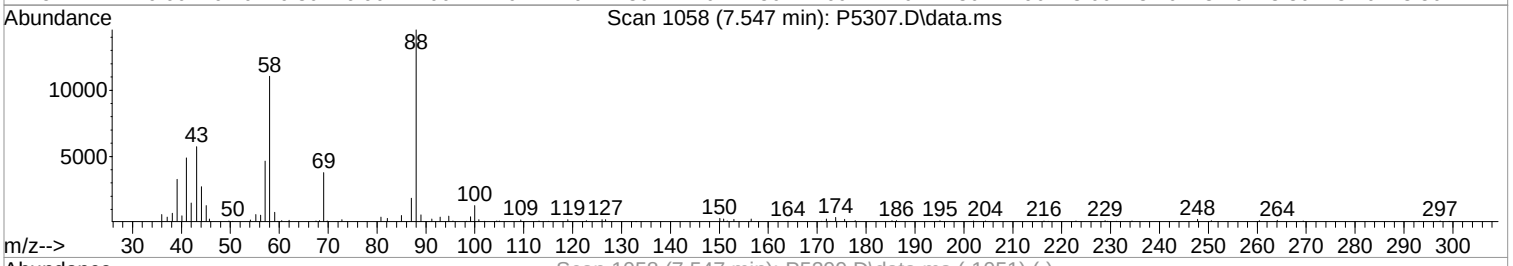
09/27/16

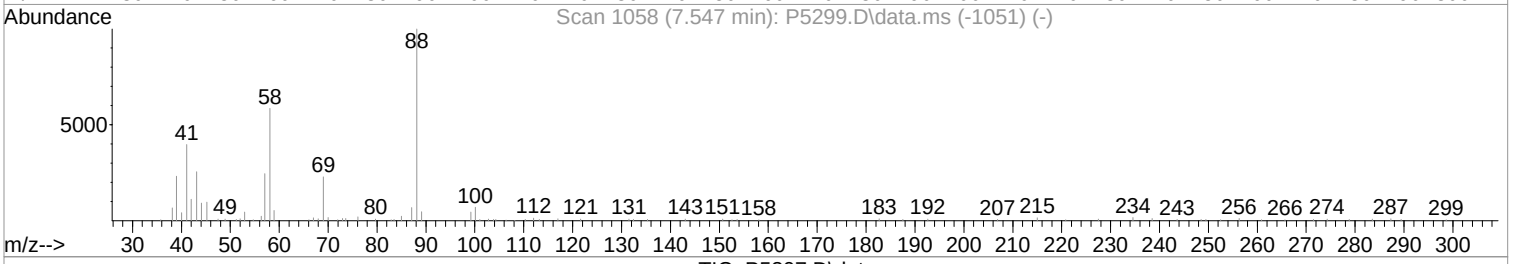
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:08:29 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration







TIC: P5307.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.000) 814.65 ppb

response 39361

Ion	Exp%	Act%
88.00	100	100
58.00	61.10	75.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

09/27/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.0000	50.0000	0.0	99	0.00
2	P	Dichlorodifluoromethane	50.0000	44.0321	11.9	85	0.00
3	P	Chloromethane	50.0000	46.7191	6.6	90	0.00
4	P	Vinyl Chloride	50.0000	50.2464	-0.5	100	0.00
5	P	Bromomethane	50.0000	47.9697	4.1	101	0.00
6	P	Chloroethane	50.0000	50.8980	-1.8	93	0.00
7		Freon 21	50.0000	45.6277	8.7	105	0.00
8	P	Trichlorofluoromethane	50.0000	45.9187	8.2	91	0.00
9		Diethyl Ether	50.0000	48.3989	3.2	95	0.00
10		Freon 123a	50.0000	46.3250	7.3	107	0.00
11		Freon 123	50.0000	46.2629	7.5	111	0.00
12		Acrolein	250.0000	121.0019	51.6#	46	0.00
13	P	1,1-Diclethene	50.0000	46.3612	7.3	96	0.00
14	P	Freon 113	50.0000	43.7740	12.5	89	0.00
15	P	Acetone	50.0000	51.8690	-3.7	103	0.00
16		2-Propanol	1000.0000	1023.2336	-2.3	96	0.00
17		Iodomethane	50.0000	50.6294	-1.3	86	0.00
18	P	Carbon Disulfide	50.0000	52.9433	-5.9	105	0.00
19		Acetonitrile	250.0000	231.9965	7.2	90	0.00
20		Allyl Chloride	50.0000	42.9813	14.0	83	0.00
21	P	Methyl Acetate	50.0000	49.9838	0.0	96	0.00
22	P	Methylene Chloride	50.0000	46.1041	7.8	94	0.00
23		TBA	1000.0000	1064.1517	-6.4	100	0.00
24		Acrylonitrile	250.0000	244.6348	2.1	96	0.00
25	P	Methyl-t-Butyl Ether	50.0000	49.0011	2.0	95	0.00
26	P	trans-1,2-Dichloroethene	50.0000	44.4983	11.0	93	0.00
27		Halothane	-1.0000	0.0000	0.0	0	-4.14#
28	P	1,1-Diclethane	50.0000	47.4518	5.1	95	0.00
29		Vinyl Acetate	50.0000	40.9055	18.2	74	0.00
30		DIPE	50.0000	46.9424	6.1	92	0.00
31		2-Chloro-1,3-Butadiene	50.0000	52.1381	-4.3	104	0.00
32		ETBE	50.0000	48.4493	3.1	92	0.00
33		2,2-Dichloropropane	50.0000	39.8888	20.2#	82	0.00
34	P	cis-1,2-Dichloroethene	50.0000	49.0577	1.9	97	0.00
35	P	2-Butanone	50.0000	56.1566	-12.3	106	0.00
36		Propionitrile	250.0000	263.4224	-5.4	101	0.00
37		Bromochloromethane	50.0000	48.6076	2.8	94	0.00
38		Methacrylonitrile	50.0000	45.9730	8.1	92	0.00
39		Tetrahydrofuran	50.0000	48.2158	3.6	102	0.00
40	P	Chloroform	50.0000	46.2999	7.4	94	0.00
41	P	1,1,1-Trichloroethane	50.0000	45.1160	9.8	94	0.00
42		TAME	50.0000	48.9884	2.0	94	0.00
43	I	1,4-Difluorobenzene	50.0000	50.0000	0.0	99	0.00
44	P	Cyclohexane	50.0000	44.7132	10.6	100	0.00
45	s	surr4,Dibrflmethane	50.0000	55.6242	-11.2	99	0.00
46	P	Carbontetrachloride	50.0000	45.7435	8.5	95	0.00
47		1,1-Dichloropropene	50.0000	45.1194	9.8	88	0.00
48	s	surr1,1,2-dichloroethane-d4	50.0000	55.1191	-10.2	101	0.00
49	P	Benzene	50.0000	47.3821	5.2	96	0.00
50	P	1,2-Dichloroethane	50.0000	48.5068	3.0	95	0.00
51		Iso-Butyl Alcohol	1000.0000	1083.8654	-8.4	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		n-Heptane	50.0000	43.3756	13.2	87	0.00
53		1-Butanol	2500.0000	2797.3822	-11.9	101	0.00
54	P	Trichloroethene	50.0000	51.0318	-2.1	103	0.00
55	P	Methylcyclohexane	50.0000	45.4712	9.1	103	0.00
56	P	1,2-Diclpropane	50.0000	48.6883	2.6	95	0.00
57		Dibromomethane	50.0000	46.7511	6.5	95	0.00
58		1,4-Dioxane	1000.0000	965.2772	3.5	98	0.00
59		Methyl Methacrylate	50.0000	51.9780	-4.0	102	0.00
60	P	Bromodichloromethane	50.0000	45.7474	8.5	92	0.00
61		2-Nitropropane	100.0000	98.8346	1.2	97	0.00
62		2-Chloroethylvinyl Ether	50.0000	54.7328	-9.5	104	0.00
63	P	cis-1,3-Dichloropropene	50.0000	47.9528	4.1	93	0.00
64	P	4-Methyl-2-pentanone	50.0000	56.3550	-12.7	105	0.00
65	s	SURR3,Toluene-d8	50.0000	56.4042	-12.8	100	0.00
66	P	Toluene	50.0000	48.1448	3.7	95	0.00
67	P	trans-1,3-Dichloropropene	50.0000	47.0570	5.9	94	0.00
68		Ethyl Methacrylate	50.0000	51.1557	-2.3	96	0.00
69	P	1,1,2-Trichloroethane	50.0000	50.5289	-1.1	97	0.00
70	s	SURR2,BFB	50.0000	56.2152	-12.4	100	0.00
71	I	d5-Chlorobenzene	50.0000	50.0000	0.0	100	0.00
72	P	Tetrachloroethene	50.0000	46.8893	6.2	97	0.00
73	P	2-Hexanone	50.0000	57.4201	-14.8	106	0.00
74		1,3-Dichloropropane	50.0000	49.6468	0.7	97	0.00
75	P	Dibromochloromethane	50.0000	50.0855	-0.2	98	0.00
76		N-Butyl Acetate	50.0000	48.5845	2.8	95	0.00
77	P	1,2-Dibromoethane	50.0000	51.5092	-3.0	99	0.00
78	P	Chlorobenzene	50.0000	47.3255	5.3	95	0.00
79		3-CBTF	50.0000	45.6008	8.8	94	0.00
80		4-CBTF	50.0000	44.5926	10.8	91	0.00
81		1,1,1,2-Tetrachloroethane	50.0000	48.7139	2.6	95	0.00
82	P	Ethylbenzene	50.0000	48.4554	3.1	97	0.00
83	P	(m+p)Xylene	100.0000	99.0451	1.0	98	0.00
84	P	o-Xylene	50.0000	48.3642	3.3	97	0.00
85	P	Styrene	50.0000	50.6264	-1.3	98	0.00
86	I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	100	0.00
87	P	Bromoform	50.0000	53.7590	-7.5	103	0.00
88		2-CBTF	50.0000	44.7703	10.5	93	0.00
89	P	Isopropylbenzene	50.0000	48.1660	3.7	97	0.00
90		Cyclohexanone	1000.0000	974.9751	2.5	107	0.00
91		trans-1,4-Dichloro-2-Butene	50.0000	48.9154	2.2	93	0.00
92	P	1,1,2,2-Tetrachloroethane	50.0000	46.6553	6.7	93	0.00
93		Bromobenzene	50.0000	47.7155	4.6	96	0.00
94		1,2,3-Trichloropropane	50.0000	50.1846	-0.4	99	0.00
95		n-Propylbenzene	50.0000	48.4105	3.2	96	0.00
96		2-Chlorotoluene	50.0000	48.6707	2.7	98	0.00
97		3-Chlorotoluene	50.0000	47.0085	6.0	95	0.00
98		4-Chlorotoluene	50.0000	47.9761	4.0	95	0.00
99		1,3,5-Trimethylbenzene	50.0000	48.8013	2.4	97	0.00
100		tert-Butylbenzene	50.0000	49.0935	1.8	98	0.00
101		1,2,4-Trimethylbenzene	50.0000	48.1758	3.6	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\092616\
Data File : P5307.D
Acq On : 26 Sep 2016 11:55 pm
Operator : K.Ruest
Sample : ICV 50 Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 27 11:09:47 2016
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W092616.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Tue Sep 27 11:08:18 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102		3,4-DCBTF	50.0000	45.1636	9.7	92	0.00
103		sec-Butylbenzene	50.0000	49.1985	1.6	96	0.00
104		p-Isopropyltoluene	50.0000	49.8286	0.3	99	0.00
105	P	1,3-Dclbenz	50.0000	47.7421	4.5	94	0.00
106	P	1,4-Dclbenz	50.0000	48.8277	2.3	100	0.00
107		2,4-DCBTF	50.0000	45.3903	9.2	92	0.00
108		2,5-DCBTF	50.0000	44.4442	11.1	95	0.00
109		n-Butylbenzene	50.0000	47.9629	4.1	94	0.00
110	P	1,2-Dclbenz	50.0000	49.7505	0.5	98	0.00
111	P	1,2-Dibromo-3-chloropropane	50.0000	51.5380	-3.1	99	0.00
112		Trielution Dichlorotoluene	150.0000	144.4093	3.7	95	0.00
113		1,3,5 Trichlorobenzene	50.0000	47.0626	5.9	94	0.00
114		Coelution Dichlorotoluene	100.0000	97.8242	2.2	96	0.00
115	P	1,2,4-Tcbenzene	50.0000	49.7992	0.4	97	0.00
116		Hexachlorobt	50.0000	45.6536	8.7	95	0.00
117		Naphthalen	50.0000	55.1149	-10.2	104	0.00
118		1,2,3-Tclbenzene	50.0000	49.8102	0.4	98	0.00
119		2,4,5-Trichlorotolene	50.0000	47.7747	4.5	97	0.00
120		2,3,6-Trichlorotoluene	50.0000	47.0824	5.8	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600106-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\092616\P5294.D	09/26/2016 17:16
02	RC1600106-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\092616\P5295.D	09/26/2016 17:46
03	RC1600106-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\092616\P5296.D	09/26/2016 18:17
04	RC1600106-04	5.0ppb	I:\ACQUDATA\msvoa12\Data\092616\P5297.D	09/26/2016 18:48
05	RC1600106-05	20ppb	I:\ACQUDATA\msvoa12\Data\092616\P5298.D	09/26/2016 19:18
06	RC1600106-06	50ppb	I:\ACQUDATA\msvoa12\Data\092616\P5299.D	09/26/2016 19:49
07	RC1600106-07	100ppb	I:\ACQUDATA\msvoa12\Data\092616\P5300.D	09/26/2016 20:19
08	RC1600106-08	150ppb	I:\ACQUDATA\msvoa12\Data\092616\P5301.D	09/26/2016 20:50
09	RC1600106-09	200ppb	I:\ACQUDATA\msvoa12\Data\092616\P5302.D	09/26/2016 21:21

Analyte

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4525	02	1.000	0.4506	03	2.000	0.4859	04	5.000	0.4457
05	20.000	0.4844	06	50.000	0.4756	07	100.000	0.4627	08	150.000	0.4605
09	200.000	0.4518									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.44	02	1.000	0.4341	03	2.000	0.3645	04	5.000	0.3869
05	20.000	0.3908	06	50.000	0.3924	07	100.000	0.392	08	150.000	0.3907
09	200.000	0.3687									

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3536	02	1.000	0.2622	03	2.000	0.2274	04	5.000	0.2164
05	20.000	0.2037	06	50.000	0.2069	07	100.000	0.1971	08	150.000	0.1887
09	200.000	0.1805									

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3752	02	1.000	0.3488	03	2.000	0.2852	04	5.000	0.2298
05	20.000	0.2354	06	50.000	0.2129	07	100.000	0.2066	08	150.000	0.2086
09	200.000	0.2016									

1,1-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4493	02	1.000	0.3694	03	2.000	0.3459	04	5.000	0.3302
05	20.000	0.3249	06	50.000	0.3333	07	100.000	0.3276	08	150.000	0.3296
09	200.000	0.3196									

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.1015	05	20.000	0.08112	06	50.000	0.08124	07	100.000	0.0763
08	150.000	0.07797	09	200.000	0.07109						

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.162	02	1.000	1.241	03	2.000	1.087	04	5.000	1.088
05	20.000	1.058	06	50.000	1.09	07	100.000	1.072	08	150.000	1.049
09	200.000	1.003									

Methylene Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4111	02	1.000	0.3775	03	2.000	0.3963	04	5.000	0.3555
05	20.000	0.3576	06	50.000	0.3585	07	100.000	0.3517	08	150.000	0.3507
09	200.000	0.3411									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4826	02	1.000	0.3909	03	2.000	0.4328	04	5.000	0.3976
05	20.000	0.3712	06	50.000	0.3708	07	100.000	0.3626	08	150.000	0.3598
09	200.000	0.35									

1,1-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7128	02	1.000	0.651	03	2.000	0.6583	04	5.000	0.6623
05	20.000	0.635	06	50.000	0.6401	07	100.000	0.6394	08	150.000	0.6288
09	200.000	0.6143									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4498	02	1.000	0.3681	03	2.000	0.4155	04	5.000	0.4059
05	20.000	0.3914	06	50.000	0.3987	07	100.000	0.3941	08	150.000	0.3881
09	200.000	0.3794									

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.1213	05	20.000	0.1131	06	50.000	0.1174	07	100.000	0.1117
08	150.000	0.1073	09	200.000	0.1022						

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6633	02	1.000	0.6515	03	2.000	0.6545	04	5.000	0.6409
05	20.000	0.6307	06	50.000	0.6202	07	100.000	0.6158	08	150.000	0.6125
09	200.000	0.5974									

1,1,1-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7251	02	1.000	0.5726	03	2.000	0.6351	04	5.000	0.5995
05	20.000	0.537	06	50.000	0.5557	07	100.000	0.5476	08	150.000	0.5438
09	200.000	0.5298									

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1519	02	1.000	0.1038	03	2.000	0.1013	04	5.000	0.1072
05	20.000	0.09012	06	50.000	0.1004	07	100.000	0.09944	08	150.000	0.09955
09	200.000	0.0939									

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9895	02	1.000	0.9296	03	2.000	0.9873	04	5.000	0.9869
05	20.000	0.9224	06	50.000	0.915	07	100.000	0.912	08	150.000	0.8756
09	200.000	0.8447									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3311	02	1.000	0.3162	03	2.000	0.3139	04	5.000	0.2941
05	20.000	0.312	06	50.000	0.3072	07	100.000	0.297	08	150.000	0.2774
09	200.000	0.2679									

Trichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2696	02	1.000	0.2471	03	2.000	0.2785	04	5.000	0.2764
05	20.000	0.2629	06	50.000	0.261	07	100.000	0.2652	08	150.000	0.2608
09	200.000	0.2544									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2383	02	1.000	0.2673	03	2.000	0.2558	04	5.000	0.2513
05	20.000	0.2455	06	50.000	0.2503	07	100.000	0.2469	08	150.000	0.2348
09	200.000	0.2288									

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3525	02	1.000	0.3245	03	2.000	0.3386	04	5.000	0.3119
05	20.000	0.3168	06	50.000	0.314	07	100.000	0.3114	08	150.000	0.3029
09	200.000	0.2994									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3565	02	1.000	0.4293	03	2.000	0.4158	04	5.000	0.3832
05	20.000	0.4137	06	50.000	0.4105	07	100.000	0.4111	08	150.000	0.3934
09	200.000	0.3861									

4-Methyl-2-pentanone (MIBK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1404	04	5.000	0.1656	05	20.000	0.1677	06	50.000	0.1762
07	100.000	0.1793	08	150.000	0.1669	09	200.000	0.1595			

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.169	02	1.000	1.038	03	2.000	1.036	04	5.000	1.053
05	20.000	1.045	06	50.000	1.043	07	100.000	1.015	08	150.000	0.9737
09	200.000	0.9208									

trans-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4061	02	1.000	0.3746	03	2.000	0.35	04	5.000	0.3371
05	20.000	0.3672	06	50.000	0.3571	07	100.000	0.3644	08	150.000	0.3407
09	200.000	0.3298									

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1988	02	1.000	0.1557	03	2.000	0.1776	04	5.000	0.1845
05	20.000	0.1867	06	50.000	0.1856	07	100.000	0.1817	08	150.000	0.1751
09	200.000	0.173									

Tetrachloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2709	02	1.000	0.2315	03	2.000	0.2302	04	5.000	0.2245
05	20.000	0.2108	06	50.000	0.2175	07	100.000	0.209	08	150.000	0.2175
09	200.000	0.2085									

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1197	04	5.000	0.1148	05	20.000	0.1294	06	50.000	0.1335
07	100.000	0.1283	08	150.000	0.1245	09	200.000	0.118			

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.246	02	1.000	0.2188	03	2.000	0.2142	04	5.000	0.2294
05	20.000	0.2421	06	50.000	0.2385	07	100.000	0.2406	08	150.000	0.2326
09	200.000	0.2338									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8241	02	1.000	0.7299	03	2.000	0.7572	04	5.000	0.7757
05	20.000	0.7543	06	50.000	0.7385	07	100.000	0.72	08	150.000	0.7057
09	200.000	0.6809									

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3961	02	1.000	0.4213	03	2.000	0.4376	04	5.000	0.4258
05	20.000	0.4095	06	50.000	0.4022	07	100.000	0.3938	08	150.000	0.3882
09	200.000	0.3699									

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5418	02	2.000	0.5213	03	4.000	0.4795	04	10.000	0.5029
05	40.000	0.4964	06	100.000	0.4917	07	200.000	0.4747	08	300.000	0.4619
09	400.000	0.4286									

o-Xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5756	02	1.000	0.4948	03	2.000	0.5287	04	5.000	0.4868
05	20.000	0.4901	06	50.000	0.4998	07	100.000	0.4838	08	150.000	0.4817
09	200.000	0.46									

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9153	02	1.000	0.8357	03	2.000	0.828	04	5.000	0.8301
05	20.000	0.8361	06	50.000	0.8448	07	100.000	0.7917	08	150.000	0.7696
09	200.000	0.7102									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2277	02	1.000	0.2336	03	2.000	0.2162	04	5.000	0.1949
05	20.000	0.2261	06	50.000	0.2429	07	100.000	0.2514	08	150.000	0.2533
09	200.000	0.2594									

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4282	02	1.000	0.4625	03	2.000	0.4207	04	5.000	0.4045
05	20.000	0.4319	06	50.000	0.4138	07	100.000	0.4016	08	150.000	0.3798
09	200.000	0.3732									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.4788	03	60.000	0.4599	04	70.000	0.4354	05	100.000	0.401
07	125.000	0.4016	08	150.000	0.3828						

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.228	03	60.000	1.2	04	70.000	1.13	05	100.000	1.036
07	125.000	1.009	08	150.000	0.9583						

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.2984	03	60.000	0.2838	04	70.000	0.2735	05	100.000	0.2523
07	125.000	0.2518	08	150.000	0.2413						

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Chloromethane	TRG	Average RF	% RSD	3.3	≤20	0.4633	0.100
Vinyl Chloride	TRG	Average RF	% RSD	6.5	≤20	0.3956	0.100
Chloroethane	TRG	Linear	R2	0.9979	≥0.99	0.2263	0.100
Bromomethane	TRG	Quadratic	% RSD	1.00	≥0.99	0.2560	0.100
1,1-Dichloroethene	TRG	Average RF	% RSD	11.7	≤20	0.3478	0.100
Acetone	TRG	Average RF	% RSD	12.9	≤20	0.0815	0.05
Carbon Disulfide	TRG	Average RF	% RSD	6.3	≤20	1.094	0.100
Methylene Chloride	TRG	Average RF	% RSD	6.4	≤20	0.3667	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	10.9	≤20	0.3909	0.100
1,1-Dichloroethane	TRG	Average RF	% RSD	4.3	≤20	0.6491	0.200
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.9	≤20	0.3990	0.100
2-Butanone (MEK)	TRG	Average RF	% RSD	6.1	≤20	0.1122	0.05
Chloroform	TRG	Average RF	% RSD	3.5	≤20	0.6319	0.200
1,1,1-Trichloroethane	TRG	Average RF	% RSD	10.8	≤20	0.5829	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	17.3	≤20	0.1053	0.05
Benzene	TRG	Average RF	% RSD	5.5	≤20	0.9292	0.500
1,2-Dichloroethane	TRG	Average RF	% RSD	6.6	≤20	0.3019	0.100
Trichloroethene	TRG	Average RF	% RSD	3.8	≤20	0.2640	0.200
1,2-Dichloropropane	TRG	Average RF	% RSD	4.7	≤20	0.2466	0.100
Bromodichloromethane	TRG	Average RF	% RSD	5.3	≤20	0.3191	0.200
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	5.5	≤20	0.4000	0.200
4-Methyl-2-pentanone (MIBK)	TRG	Average RF	% RSD	7.7	≤20	0.1651	0.05
Toluene	TRG	Average RF	% RSD	6.5	≤20	1.033	0.400
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	6.5	≤20	0.3586	0.100
1,1,2-Trichloroethane	TRG	Average RF	% RSD	6.6	≤20	0.1798	0.100
Tetrachloroethene	TRG	Average RF	% RSD	8.7	≤20	0.2245	0.200
2-Hexanone	TRG	Average RF	% RSD	5.5	≤20	0.1240	0.05
Dibromochloromethane	TRG	Average RF	% RSD	4.6	≤20	0.2329	0.100
Chlorobenzene	TRG	Average RF	% RSD	5.6	≤20	0.7429	0.500
Ethylbenzene	TRG	Average RF	% RSD	5.2	≤20	0.4049	0.100
m,p-Xylenes	TRG	Average RF	% RSD	6.8	≤20	0.4887	0.100
o-Xylene	TRG	Average RF	% RSD	6.7	≤20	0.5001	0.300
Styrene	TRG	Average RF	% RSD	6.9	≤20	0.8180	0.300
Bromoform	TRG	Average RF	% RSD	8.7	≤20	0.2339	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	6.6	≤20	0.4129	0.300

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4-Bromofluorobenzene	SURR	Average RF	% RSD	8.8	≤20	0.4266	
Toluene-d8	SURR	Average RF	% RSD	10.0	≤20	1.094	
Dibromofluoromethane	SURR	Average RF	% RSD	8.2	≤20	0.2669	

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1600106-10	ICV 50	I:\ACQUDATA\msvoa12\Data\092616\P5307.D	09/26/2016 23:55

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Chloromethane	50.0	46.7	4.633E-1	4.329E-1	-6.562	±30	Average RF
Vinyl Chloride	50.0	50.2	3.956E-1	3.975E-1	0.493	±30	Average RF
Chloroethane	50.0	50.9	2.263E-1	1.938E-1	1.80	±30	Linear
Bromomethane	50.0	48.0	2.56E-1	2.165E-1	-4.061	±30	Quadratic
1,1-Dichloroethene	50.0	46.4	3.478E-1	3.225E-1	-7.278	±30	Average RF
Acetone	50.0	51.9	8.154E-2	8.459E-2	3.74	±30	Average RF
Carbon Disulfide	50.0	52.9	1.094E0	1.159E0	5.89	±30	Average RF
Methylene Chloride	50.0	46.1	3.667E-1	3.381E-1	-7.792	±30	Average RF
trans-1,2-Dichloroethene	50.0	44.5	3.909E-1	3.479E-1	-11.003	±30	Average RF
1,1-Dichloroethane	50.0	47.5	6.491E-1	6.16E-1	-5.096	±30	Average RF
cis-1,2-Dichloroethene	50.0	49.1	3.99E-1	3.915E-1	-1.885	±30	Average RF
2-Butanone (MEK)	50.0	56.2	1.122E-1	1.26E-1	12.31	±30	Average RF
Chloroform	50.0	46.3	6.319E-1	5.851E-1	-7.400	±30	Average RF
1,1,1-Trichloroethane	50.0	45.1	5.829E-1	5.26E-1	-9.768	±30	Average RF
Carbon Tetrachloride	50.0	45.7	1.053E-1	9.632E-2	-8.513	±30	Average RF
Benzene	50.0	47.4	9.292E-1	8.806E-1	-5.236	±30	Average RF
1,2-Dichloroethane	50.0	48.5	3.019E-1	2.929E-1	-2.986	±30	Average RF
Trichloroethene	50.0	51.0	2.64E-1	2.695E-1	2.06	±30	Average RF
1,2-Dichloropropane	50.0	48.7	2.466E-1	2.401E-1	-2.623	±30	Average RF
Bromodichloromethane	50.0	45.7	3.191E-1	2.92E-1	-8.505	±30	Average RF
cis-1,3-Dichloropropene	50.0	48.0	4.0E-1	3.836E-1	-4.094	±30	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	56.4	1.651E-1	1.861E-1	12.71	±30	Average RF
Toluene	50.0	48.1	1.033E0	9.943E-1	-3.710	±30	Average RF
trans-1,3-Dichloropropene	50.0	47.1	3.586E-1	3.375E-1	-5.886	±30	Average RF
1,1,2-Trichloroethane	50.0	50.5	1.798E-1	1.817E-1	1.06	±30	Average RF
Tetrachloroethene	50.0	46.9	2.245E-1	2.105E-1	-6.221	±30	Average RF
2-Hexanone	50.0	57.4	1.24E-1	1.424E-1	14.84	±30	Average RF
Dibromochloromethane	50.0	50.1	2.329E-1	2.333E-1	0.171	±30	Average RF
Chlorobenzene	50.0	47.3	7.429E-1	7.032E-1	-5.349	±30	Average RF
Ethylbenzene	50.0	48.5	4.049E-1	3.924E-1	-3.089	±30	Average RF
m,p-Xylenes	100	99.0	4.887E-1	4.841E-1	-0.955	±30	Average RF
o-Xylene	50.0	48.4	5.001E-1	4.838E-1	-3.272	±30	Average RF
Styrene	50.0	50.6	8.18E-1	8.282E-1	1.25	±30	Average RF
Bromoform	50.0	53.8	2.339E-1	2.515E-1	7.52	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	46.7	4.129E-1	3.853E-1	-6.689	±30	Average RF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells **Calibration Date:** 9/26/2016

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600106 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1600106-10	ICV 50	I:\ACQUDATA\msvoa12\Data\092616\P5307.D	09/26/2016 23:55

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	56.2	4.266E-1	4.796E-1	12.43	±30	Average RF
Toluene-d8	50.0	56.4	1.094E0	1.234E0	12.81	±30	Average RF
Dibromofluoromethane	50.0	55.6	2.669E-1	2.969E-1	11.25	±30	Average RF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/24/16

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C **Calibration Date:** 9/26/16
Calibration ID: RC1600106
File ID: I:\ACQUDATA\msvoa12\Data\102416\P5890.D\ **Analysis Lot:** 519947
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	63.7	0.4633	0.5899	27.3 *	NA	± 20 %	Average RF
Vinyl Chloride	50.0	55.7	0.3956	0.4409	11.5	NA	± 20 %	Average RF
Chloroethane	50.0	59.6	NA	NA	NA	19.1	± 20 %	Linear
Bromomethane	50.0	50.8	NA	NA	NA	1.6	± 20 %	Quadratic
1,1-Dichloroethene	50.0	57.2	0.3478	0.3978	14.4	NA	± 20 %	Average RF
Acetone	50.0	53.3	0.08154	0.08687	6.5	NA	± 20 %	Average RF
Carbon Disulfide	50.0	57.8	1.094	1.266	15.7	NA	± 20 %	Average RF
Methylene Chloride	50.0	57.5	0.3667	0.4217	15.0	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	56.0	0.3909	0.4376	11.9	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	59.4	0.6491	0.7711	18.8	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	58.3	0.3990	0.4654	16.6	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	55.0	0.1122	0.1235	10.1	NA	± 20 %	Average RF
Chloroform	50.0	55.9	0.6319	0.7062	11.8	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	53.5	0.5829	0.6242	7.1	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	46.9	0.1053	0.09880	-6.2	NA	± 20 %	Average RF
Benzene	50.0	55.0	0.9292	1.022	10.0	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	49.8	0.3019	0.3008	-0.4	NA	± 20 %	Average RF
Trichloroethene	50.0	50.5	0.2640	0.2668	1.0	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	56.1	0.2466	0.2766	12.2	NA	± 20 %	Average RF
Bromodichloromethane	50.0	49.8	0.3191	0.3178	-0.4	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	53.8	0.4000	0.4306	7.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	53.3	0.1651	0.1761	6.6	NA	± 20 %	Average RF
Toluene	50.0	53.8	1.033	1.112	7.7	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	49.9	0.3586	0.3581	-0.1	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	52.8	0.1798	0.1899	5.6	NA	± 20 %	Average RF
Tetrachloroethene	50.0	47.3	0.2245	0.2125	-5.3	NA	± 20 %	Average RF
2-Hexanone	50.0	49.9	0.1240	0.1239	-0.1	NA	± 20 %	Average RF
Dibromochloromethane	50.0	48.2	0.2329	0.2246	-3.5	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.7	0.7429	0.7534	1.4	NA	± 20 %	Average RF
Ethylbenzene	50.0	52.0	0.4049	0.4214	4.1	NA	± 20 %	Average RF
m,p-Xylenes	100	105	0.4887	0.5119	4.7	NA	± 20 %	Average RF
o-Xylene	50.0	50.2	0.5001	0.5023	0.4	NA	± 20 %	Average RF
Styrene	50.0	50.5	0.8180	0.8263	1.0	NA	± 20 %	Average RF
Bromoform	50.0	47.6	0.2339	0.2227	-4.8	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	52.1	0.4129	0.4299	4.1	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	56.2	0.4266	0.4798	12.5	NA	± 20 %	Average RF
Toluene-d8	50.0	56.4	1.094	1.234	12.8	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	53.8	0.2669	0.2871	7.6	NA	± 20 %	Average RF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/26/16

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C **Calibration Date:** 9/26/16
Calibration ID: RC1600106
Analysis Lot: 520597
File ID: I:\ACQUDATA\msvoa12\Data\102616\P5950.D\ **Units:** ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	49.9	0.4633	0.4626	-0.2	NA	± 20 %	Average RF
Vinyl Chloride	50.0	45.7	0.3956	0.3614	-8.6	NA	± 20 %	Average RF
Chloroethane	50.0	50.8	NA	NA	NA	1.6	± 20 %	Linear
Bromomethane	50.0	38.7	NA	NA	NA	-22.7 *	± 20 %	Quadratic
1,1-Dichloroethene	50.0	46.6	0.3478	0.3244	-6.7	NA	± 20 %	Average RF
Acetone	50.0	51.6	0.08154	0.08411	3.2	NA	± 20 %	Average RF
Carbon Disulfide	50.0	55.2	1.094	1.208	10.3	NA	± 20 %	Average RF
Methylene Chloride	50.0	51.0	0.3667	0.3742	2.1	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	46.6	0.3909	0.3646	-6.7	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	49.4	0.6491	0.6414	-1.2	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	50.5	0.3990	0.4028	0.9	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	50.3	0.1122	0.1128	0.6	NA	± 20 %	Average RF
Chloroform	50.0	48.2	0.6319	0.6093	-3.6	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	43.5	0.5829	0.5075	-12.9	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	38.7	0.1053	0.08157	-22.5 *	NA	± 20 %	Average RF
Benzene	50.0	49.0	0.9292	0.9097	-2.1	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	45.8	0.3019	0.2767	-8.3	NA	± 20 %	Average RF
Trichloroethene	50.0	44.2	0.2640	0.2331	-11.7	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	48.9	0.2466	0.2414	-2.1	NA	± 20 %	Average RF
Bromodichloromethane	50.0	45.0	0.3191	0.2875	-9.9	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	47.8	0.4000	0.3826	-4.3	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	48.6	0.1651	0.1604	-2.8	NA	± 20 %	Average RF
Toluene	50.0	47.8	1.033	0.9876	-4.4	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	44.6	0.3586	0.3199	-10.8	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	47.0	0.1798	0.1690	-6.0	NA	± 20 %	Average RF
Tetrachloroethene	50.0	41.4	0.2245	0.1856	-17.3	NA	± 20 %	Average RF
2-Hexanone	50.0	51.7	0.1240	0.1282	3.3	NA	± 20 %	Average RF
Dibromochloromethane	50.0	44.8	0.2329	0.2089	-10.3	NA	± 20 %	Average RF
Chlorobenzene	50.0	48.3	0.7429	0.7169	-3.5	NA	± 20 %	Average RF
Ethylbenzene	50.0	48.0	0.4049	0.3884	-4.1	NA	± 20 %	Average RF
m,p-Xylenes	100	95.0	0.4887	0.4642	-5.0	NA	± 20 %	Average RF
o-Xylene	50.0	47.4	0.5001	0.4738	-5.3	NA	± 20 %	Average RF
Styrene	50.0	47.8	0.8180	0.7823	-4.4	NA	± 20 %	Average RF
Bromoform	50.0	44.5	0.2339	0.2082	-11.0	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	50.3	0.4129	0.4151	0.5	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	53.7	0.4266	0.4581	7.4	NA	± 20 %	Average RF
Toluene-d8	50.0	57.3	1.094	1.254	14.6	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	55.1	0.2669	0.2941	10.2	NA	± 20 %	Average RF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/27/16

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C **Calibration Date:** 9/26/16
Calibration ID: RC1600106
File ID: I:\ACQUDATA\msvoa12\Data\102716\P5999.D\ **Analysis Lot:** 520680
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	55.9	0.4633	0.5180	11.8	NA	± 20 %	Average RF
Vinyl Chloride	50.0	46.8	0.3956	0.3701	-6.4	NA	± 20 %	Average RF
Chloroethane	50.0	49.6	NA	NA	NA	-0.9	± 20 %	Linear
Bromomethane	50.0	46.6	NA	NA	NA	-6.8	± 20 %	Quadratic
1,1-Dichloroethene	50.0	50.4	0.3478	0.3506	0.8	NA	± 20 %	Average RF
Acetone	50.0	44.7	0.08154	0.07288	-10.6	NA	± 20 %	Average RF
Carbon Disulfide	50.0	51.8	1.094	1.133	3.5	NA	± 20 %	Average RF
Methylene Chloride	50.0	51.2	0.3667	0.3755	2.4	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	49.1	0.3909	0.3840	-1.8	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	52.3	0.6491	0.6791	4.6	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	52.1	0.3990	0.4159	4.2	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	52.7	0.1122	0.1181	5.3	NA	± 20 %	Average RF
Chloroform	50.0	51.1	0.6319	0.6462	2.3	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	47.3	0.5829	0.5516	-5.4	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	43.3	0.1053	0.09120	-13.4	NA	± 20 %	Average RF
Benzene	50.0	51.7	0.9292	0.9613	3.5	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	45.8	0.3019	0.2762	-8.5	NA	± 20 %	Average RF
Trichloroethene	50.0	47.9	0.2640	0.2530	-4.2	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	51.2	0.2466	0.2525	2.4	NA	± 20 %	Average RF
Bromodichloromethane	50.0	47.4	0.3191	0.3023	-5.3	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	49.8	0.4000	0.3986	-0.3	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	52.0	0.1651	0.1716	3.9	NA	± 20 %	Average RF
Toluene	50.0	51.0	1.033	1.054	2.1	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	45.2	0.3586	0.3241	-9.6	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	47.3	0.1798	0.1702	-5.3	NA	± 20 %	Average RF
Tetrachloroethene	50.0	47.1	0.2245	0.2114	-5.8	NA	± 20 %	Average RF
2-Hexanone	50.0	50.6	0.1240	0.1255	1.1	NA	± 20 %	Average RF
Dibromochloromethane	50.0	46.5	0.2329	0.2165	-7.0	NA	± 20 %	Average RF
Chlorobenzene	50.0	49.7	0.7429	0.7381	-0.6	NA	± 20 %	Average RF
Ethylbenzene	50.0	50.7	0.4049	0.4104	1.3	NA	± 20 %	Average RF
m,p-Xylenes	100	103	0.4887	0.5022	2.8	NA	± 20 %	Average RF
o-Xylene	50.0	49.4	0.5001	0.4940	-1.2	NA	± 20 %	Average RF
Styrene	50.0	50.3	0.8180	0.8224	0.5	NA	± 20 %	Average RF
Bromoform	50.0	44.4	0.2339	0.2079	-11.1	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	51.3	0.4129	0.4239	2.7	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	51.9	0.4266	0.4428	3.8	NA	± 20 %	Average RF
Toluene-d8	50.0	57.0	1.094	1.247	14.1	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	53.9	0.2669	0.2877	7.8	NA	± 20 %	Average RF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/27/16

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C **Calibration Date:** 9/26/16
Calibration ID: RC1600106
File ID: I:\ACQUDATA\msvoa12\Data\102716\P6023.D\ **Analysis Lot:** 520887
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	52.9	0.4633	0.4901	5.8	NA	± 20 %	Average RF
Vinyl Chloride	50.0	49.7	0.3956	0.3929	-0.7	NA	± 20 %	Average RF
Chloroethane	50.0	53.1	NA	NA	NA	6.1	± 20 %	Linear
Bromomethane	50.0	42.2	NA	NA	NA	-15.7	± 20 %	Quadratic
1,1-Dichloroethene	50.0	54.0	0.3478	0.3758	8.1	NA	± 20 %	Average RF
Acetone	50.0	45.1	0.08154	0.07358	-9.8	NA	± 20 %	Average RF
Carbon Disulfide	50.0	54.2	1.094	1.187	8.4	NA	± 20 %	Average RF
Methylene Chloride	50.0	54.8	0.3667	0.4020	9.6	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	53.0	0.3909	0.4142	6.0	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	54.6	0.6491	0.7085	9.2	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	55.2	0.3990	0.4405	10.4	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	50.4	0.1122	0.1130	0.7	NA	± 20 %	Average RF
Chloroform	50.0	53.8	0.6319	0.6803	7.7	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	49.0	0.5829	0.5715	-2.0	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	42.5	0.1053	0.08945	-15.0	NA	± 20 %	Average RF
Benzene	50.0	51.3	0.9292	0.9534	2.6	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	45.8	0.3019	0.2763	-8.5	NA	± 20 %	Average RF
Trichloroethene	50.0	50.5	0.2640	0.2667	1.0	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	51.6	0.2466	0.2546	3.2	NA	± 20 %	Average RF
Bromodichloromethane	50.0	45.7	0.3191	0.2917	-8.6	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	47.9	0.4000	0.3834	-4.1	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	47.1	0.1651	0.1556	-5.7	NA	± 20 %	Average RF
Toluene	50.0	51.3	1.033	1.059	2.6	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	42.5	0.3586	0.3049	-15.0	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	46.9	0.1798	0.1685	-6.3	NA	± 20 %	Average RF
Tetrachloroethene	50.0	47.1	0.2245	0.2114	-5.8	NA	± 20 %	Average RF
2-Hexanone	50.0	48.5	0.1240	0.1204	-3.0	NA	± 20 %	Average RF
Dibromochloromethane	50.0	44.3	0.2329	0.2065	-11.3	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.0	0.7429	0.7426	0.0	NA	± 20 %	Average RF
Ethylbenzene	50.0	50.5	0.4049	0.4089	1.0	NA	± 20 %	Average RF
m,p-Xylenes	100	103	0.4887	0.5051	3.3	NA	± 20 %	Average RF
o-Xylene	50.0	49.6	0.5001	0.4958	-0.9	NA	± 20 %	Average RF
Styrene	50.0	50.4	0.8180	0.8244	0.8	NA	± 20 %	Average RF
Bromoform	50.0	42.8	0.2339	0.2004	-14.3	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	48.6	0.4129	0.4012	-2.8	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	52.2	0.4266	0.4451	4.3	NA	± 20 %	Average RF
Toluene-d8	50.0	56.4	1.094	1.234	12.8	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	53.9	0.2669	0.2877	7.8	NA	± 20 %	Average RF

Client: CB&I **Service Request:** R1611185
Project: Textron Wheatfield-Annual Wells/156045 **Date Analyzed:** 10/28/16

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C **Calibration Date:** 9/26/16
Calibration ID: RC1600106
File ID: I:\ACQUDATA\msvoa12\Data\102816\P6043.D\ **Analysis Lot:** 521126
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	56.7	0.4633	0.5256	13.4	NA	± 20 %	Average RF
Vinyl Chloride	50.0	48.8	0.3956	0.3857	-2.5	NA	± 20 %	Average RF
Chloroethane	50.0	53.4	NA	NA	NA	6.7	± 20 %	Linear
Bromomethane	50.0	47.3	NA	NA	NA	-5.5	± 20 %	Quadratic
1,1-Dichloroethene	50.0	53.7	0.3478	0.3737	7.5	NA	± 20 %	Average RF
Acetone	50.0	48.0	0.08154	0.07832	-3.9	NA	± 20 %	Average RF
Carbon Disulfide	50.0	55.3	1.094	1.210	10.5	NA	± 20 %	Average RF
Methylene Chloride	50.0	56.2	0.3667	0.4122	12.4	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	53.1	0.3909	0.4148	6.1	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	55.9	0.6491	0.7251	11.7	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	56.6	0.3990	0.4517	13.2	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	52.7	0.1122	0.1182	5.4	NA	± 20 %	Average RF
Chloroform	50.0	55.2	0.6319	0.6977	10.4	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	50.7	0.5829	0.5913	1.4	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	44.9	0.1053	0.09454	-10.2	NA	± 20 %	Average RF
Benzene	50.0	53.2	0.9292	0.9895	6.5	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	49.3	0.3019	0.2976	-1.4	NA	± 20 %	Average RF
Trichloroethene	50.0	49.0	0.2640	0.2586	-2.0	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	51.3	0.2466	0.2531	2.6	NA	± 20 %	Average RF
Bromodichloromethane	50.0	47.8	0.3191	0.3049	-4.5	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	51.6	0.4000	0.4127	3.2	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	54.1	0.1651	0.1785	8.1	NA	± 20 %	Average RF
Toluene	50.0	52.5	1.033	1.085	5.1	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	47.5	0.3586	0.3405	-5.0	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	49.3	0.1798	0.1771	-1.5	NA	± 20 %	Average RF
Tetrachloroethene	50.0	46.9	0.2245	0.2105	-6.2	NA	± 20 %	Average RF
2-Hexanone	50.0	51.5	0.1240	0.1278	3.0	NA	± 20 %	Average RF
Dibromochloromethane	50.0	47.8	0.2329	0.2227	-4.4	NA	± 20 %	Average RF
Chlorobenzene	50.0	49.9	0.7429	0.7421	-0.1	NA	± 20 %	Average RF
Ethylbenzene	50.0	51.3	0.4049	0.4157	2.7	NA	± 20 %	Average RF
m,p-Xylenes	100	105	0.4887	0.5110	4.5	NA	± 20 %	Average RF
o-Xylene	50.0	50.8	0.5001	0.5077	1.5	NA	± 20 %	Average RF
Styrene	50.0	50.9	0.8180	0.8325	1.8	NA	± 20 %	Average RF
Bromoform	50.0	46.1	0.2339	0.2159	-7.7	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	56.4	0.4129	0.4658	12.8	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	53.1	0.4266	0.4530	6.2	NA	± 20 %	Average RF
Toluene-d8	50.0	56.9	1.094	1.243	13.7	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	55.0	0.2669	0.2937	10.1	NA	± 20 %	Average RF

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**519947
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102416\P5889.D\	ZZZZZZZ	ZZZZZZZ	10/24/2016	09:40:00	
I:\ACQUDATA\msvoa12\Data\102416\P5890.D\	Continuing Calibration Verification	RQ1612824-02	10/24/2016	10:13:00	
I:\ACQUDATA\msvoa12\Data\102416\P5891.D\	Lab Control Sample	RQ1612824-03	10/24/2016	10:45:00	
I:\ACQUDATA\msvoa12\Data\102416\P5893.D\	Method Blank	RQ1612824-04	10/24/2016	11:46:00	
I:\ACQUDATA\msvoa12\Data\102416\P5894.D\	ZZZZZZZ	ZZZZZZZ	10/24/2016	12:16:00	
I:\ACQUDATA\msvoa12\Data\102416\P5895.D\	ZZZZZZZ	ZZZZZZZ	10/24/2016	12:51:00	
I:\ACQUDATA\msvoa12\Data\102416\P5896.D\	ZZZZZZZ	ZZZZZZZ	10/24/2016	13:22:00	
I:\ACQUDATA\msvoa12\Data\102416\P5899.D\	ZZZZZZZ	ZZZZZZZ	10/24/2016	14:52:00	
I:\ACQUDATA\msvoa12\Data\102416\P5901.D\	ZZZZZZZ	ZZZZZZZ	10/24/2016	15:52:00	
I:\ACQUDATA\msvoa12\Data\102416\P5902.D\	BAT-EW-2-161019	R1611185-001	10/24/2016	16:23:00	
I:\ACQUDATA\msvoa12\Data\102416\P5904.D\	BAT-EW-5-101619	R1611185-004	10/24/2016	17:23:00	
I:\ACQUDATA\msvoa12\Data\102416\P5906.D\	BAT-93-03(1)-161019	R1611185-006	10/24/2016	18:23:00	
I:\ACQUDATA\msvoa12\Data\102416\P5907.D\	BAT-87-22(1)-161019	R1611185-008	10/24/2016	18:53:00	
I:\ACQUDATA\msvoa12\Data\102416\P5910.D\	BAT-87-08(1)-161020	R1611185-032	10/24/2016	20:24:00	
I:\ACQUDATA\msvoa12\Data\102516\P5945.D\	ZZZZZZZ	ZZZZZZZ	10/25/2016	22:04:00	
I:\ACQUDATA\msvoa12\Data\102616\P5949.D\	ZZZZZZZ	ZZZZZZZ	10/26/2016	08:10:00	
I:\ACQUDATA\msvoa12\Data\102616\P5970.D\	ZZZZZZZ	ZZZZZZZ	10/26/2016	18:54:00	
I:\ACQUDATA\msvoa12\Data\102616\P5971.D\	ZZZZZZZ	ZZZZZZZ	10/26/2016	19:24:00	
I:\ACQUDATA\msvoa12\Data\102716\P5998.D\	ZZZZZZZ	ZZZZZZZ	10/27/2016	10:19:00	
I:\ACQUDATA\msvoa12\Data\102716\P6022.D\	ZZZZZZZ	ZZZZZZZ	10/27/2016	22:23:00	
I:\ACQUDATA\msvoa12\Data\102816\P6042.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	09:11:00	
I:\ACQUDATA\msvoa12\Data\102816\P6057.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	16:44:00	
I:\ACQUDATA\msvoa12\Data\102816\P6058.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	17:14:00	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**519947
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102816\P6059.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	17:45:00	
I:\ACQUDATA\msvoa12\Data\102816\P6060.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	18:15:00	
I:\ACQUDATA\msvoa12\Data\102816\P6061.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	18:45:00	
I:\ACQUDATA\msvoa12\Data\102816\P6062.D\	ZZZZZZZ	ZZZZZZZ	10/28/2016	19:15:00	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**520597
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102416\P5904.D\	BAT-EW-5-101619	R1611185-004	10/24/2016	17:23:00	
I:\ACQUDATA\msvoa12\Data\102416\P5907.D\	BAT-87-22(1)-161019	R1611185-008	10/24/2016	18:53:00	
I:\ACQUDATA\msvoa12\Data\102616\P5950.D\	Continuing Calibration Verification	RQ1613034-02	10/26/2016	08:42:00	
I:\ACQUDATA\msvoa12\Data\102616\P5951.D\	Lab Control Sample	RQ1613034-03	10/26/2016	09:21:00	
I:\ACQUDATA\msvoa12\Data\102616\P5953.D\	Method Blank	RQ1613034-04	10/26/2016	10:21:00	
I:\ACQUDATA\msvoa12\Data\102616\P5954.D\	BAT-FB-1-161019	R1611185-018	10/26/2016	10:51:00	
I:\ACQUDATA\msvoa12\Data\102616\P5955.D\	BAT-EW-4-161019	R1611185-003	10/26/2016	11:22:00	
I:\ACQUDATA\msvoa12\Data\102616\P5956.D\	BAT-EW-6-101619	R1611185-005	10/26/2016	11:52:00	
I:\ACQUDATA\msvoa12\Data\102616\P5957.D\	BAT-89-04(1)-161019	R1611185-007	10/26/2016	12:22:00	
I:\ACQUDATA\msvoa12\Data\102616\P5958.D\	BAT-87-19(1)-161019	R1611185-011	10/26/2016	12:52:00	
I:\ACQUDATA\msvoa12\Data\102616\P5959.D\	BAT-87-20(0)-161019	R1611185-013	10/26/2016	13:22:00	
I:\ACQUDATA\msvoa12\Data\102616\P5960.D\	BAT-DW-12-161019	R1611185-020	10/26/2016	13:53:00	
I:\ACQUDATA\msvoa12\Data\102616\P5961.D\	BAT-EW-5-101619	R1611185-004	10/26/2016	14:23:00	
I:\ACQUDATA\msvoa12\Data\102616\P5962.D\	BAT-87-22(1)-161019	R1611185-008	10/26/2016	14:54:00	
I:\ACQUDATA\msvoa12\Data\102616\P5963.D\	BAT-EW-3-161019	R1611185-002	10/26/2016	15:24:00	
I:\ACQUDATA\msvoa12\Data\102616\P5964.D\	DUP #1	R1611185-009	10/26/2016	15:54:00	
I:\ACQUDATA\msvoa12\Data\102616\P5965.D\	BAT-87-21(1)-161019	R1611185-010	10/26/2016	16:24:00	
I:\ACQUDATA\msvoa12\Data\102616\P5966.D\	BAT-89-14(1)-161019	R1611185-014	10/26/2016	16:54:00	
I:\ACQUDATA\msvoa12\Data\102616\P5967.D\	BAT-EW-2-161019	R1611185-001	10/26/2016	17:24:00	
I:\ACQUDATA\msvoa12\Data\102616\P5968.D\	BAT-EW-2-161019 MS	RQ1613034-05	10/26/2016	17:54:00	
I:\ACQUDATA\msvoa12\Data\102616\P5969.D\	BAT-EW-2-161019 DMS	RQ1613034-06	10/26/2016	18:24:00	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**520680
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102416\P5910.D\	BAT-87-08(1)-161020	R1611185-032	10/24/2016	20:24:00	
I:\ACQUDATA\msvoa12\Data\102616\P5960.D\	BAT-DW-12-161019	R1611185-020	10/26/2016	13:53:00	
I:\ACQUDATA\msvoa12\Data\102616\P5964.D\	DUP #1	R1611185-009	10/26/2016	15:54:00	
I:\ACQUDATA\msvoa12\Data\102616\P5965.D\	BAT-87-21(1)-161019	R1611185-010	10/26/2016	16:24:00	
I:\ACQUDATA\msvoa12\Data\102716\P5999.D\	Continuing Calibration Verification	RQ1613058-02	10/27/2016	10:49:00	
I:\ACQUDATA\msvoa12\Data\102716\P6001.D\	Lab Control Sample	RQ1613058-03	10/27/2016	11:49:00	
I:\ACQUDATA\msvoa12\Data\102716\P6003.D\	Method Blank	RQ1613058-04	10/27/2016	12:50:00	
I:\ACQUDATA\msvoa12\Data\102716\P6004.D\	Trip Blank	R1611185-036	10/27/2016	13:20:00	
I:\ACQUDATA\msvoa12\Data\102716\P6005.D\	BAT-FB-2-101620	R1611185-025	10/27/2016	13:51:00	
I:\ACQUDATA\msvoa12\Data\102716\P6006.D\	BAT-87-02(3)-161020	R1611185-022	10/27/2016	14:20:00	
I:\ACQUDATA\msvoa12\Data\102716\P6007.D\	BAT-87-10(0)-161020	R1611185-023	10/27/2016	14:51:00	
I:\ACQUDATA\msvoa12\Data\102716\P6008.D\	BAT-87-14(0)-161020	R1611185-030	10/27/2016	15:21:00	
I:\ACQUDATA\msvoa12\Data\102716\P6009.D\	BAT-87-08(1)-161020	R1611185-032	10/27/2016	15:51:00	
I:\ACQUDATA\msvoa12\Data\102716\P6010.D\	BAT-87-21(1)-161019	R1611185-010	10/27/2016	16:21:00	
I:\ACQUDATA\msvoa12\Data\102716\P6011.D\	BAT-EW-7-161019	R1611185-015	10/27/2016	16:51:00	
I:\ACQUDATA\msvoa12\Data\102716\P6012.D\	BAT-EW-13-161019	R1611185-016	10/27/2016	17:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6013.D\	BAT-EW-8-161019	R1611185-017	10/27/2016	17:53:00	
I:\ACQUDATA\msvoa12\Data\102716\P6014.D\	BAT-87-01(1)-161019	R1611185-019	10/27/2016	18:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6015.D\	DUP #1	R1611185-009	10/27/2016	18:53:00	
I:\ACQUDATA\msvoa12\Data\102716\P6016.D\	BAT-DW-12-161019	R1611185-020	10/27/2016	19:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6017.D\	BAT-87-02(1)-161020	R1611185-021	10/27/2016	19:53:00	
I:\ACQUDATA\msvoa12\Data\102716\P6018.D\	BAT-87-20(1)-101619	R1611185-012	10/27/2016	20:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6019.D\	BAT-87-08(1)-161020 MS	RQ1613058-05	10/27/2016	20:53:00	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**520680
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102716 \P6020.D\	BAT-87-08(1)-161020 DMS	RQ1613058-06	10/27/2016	21:23:00	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**520887
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102716\P6023.D\	Continuing Calibration Verification	RQ1613121-02	10/27/2016	22:53:00	
I:\ACQUDATA\msvoa12\Data\102716\P6024.D\	Lab Control Sample	RQ1613121-03	10/27/2016	23:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6026.D\	Method Blank	RQ1613121-04	10/28/2016	00:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6027.D\	BAT-DUP-2-161020	R1611185-031	10/28/2016	00:53:00	
I:\ACQUDATA\msvoa12\Data\102716\P6028.D\	BAT-DW-9-161020	R1611185-033	10/28/2016	01:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6032.D\	BAT-DW-10-161020	R1611185-028	10/28/2016	03:24:00	
I:\ACQUDATA\msvoa12\Data\102716\P6034.D\	BAT-89-15(1)-161020	R1611185-029	10/28/2016	04:24:00	
I:\ACQUDATA\msvoa12\Data\102716\P6035.D\	BAT-87-13(3)-101620	R1611185-027	10/28/2016	04:54:00	
I:\ACQUDATA\msvoa12\Data\102716\P6036.D\	BAT-87-13(3)-101620 MS	RQ1613121-05	10/28/2016	05:24:00	
I:\ACQUDATA\msvoa12\Data\102716\P6037.D\	BAT-87-13(3)-101620 DMS	RQ1613121-06	10/28/2016	05:54:00	

Client: CB&I **Service Request:**R1611185
Project: Textron Wheatfield-Annual Wells/156045

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**521126
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\102716\P6028.D\	BAT-DW-9-161020	R1611185-033	10/28/2016	01:23:00	
I:\ACQUDATA\msvoa12\Data\102716\P6032.D\	BAT-DW-10-161020	R1611185-028	10/28/2016	03:24:00	
I:\ACQUDATA\msvoa12\Data\102716\P6034.D\	BAT-89-15(1)-161020	R1611185-029	10/28/2016	04:24:00	
I:\ACQUDATA\msvoa12\Data\102816\P6043.D\	Continuing Calibration Verification	RQ1613189-02	10/28/2016	09:43:00	
I:\ACQUDATA\msvoa12\Data\102816\P6045.D\	Lab Control Sample	RQ1613189-03	10/28/2016	10:43:00	
I:\ACQUDATA\msvoa12\Data\102816\P6047.D\	Method Blank	RQ1613189-04	10/28/2016	11:43:00	
I:\ACQUDATA\msvoa12\Data\102816\P6048.D\	BAT-B-14(1)-101620	R1611185-026	10/28/2016	12:13:00	
I:\ACQUDATA\msvoa12\Data\102816\P6049.D\	BAT-B-8(0)-161020	R1611185-034	10/28/2016	12:43:00	
I:\ACQUDATA\msvoa12\Data\102816\P6050.D\	BAT-B-17(1)-161020	R1611185-035	10/28/2016	13:13:00	
I:\ACQUDATA\msvoa12\Data\102816\P6051.D\	BAT-DW-11-161020	R1611185-024	10/28/2016	13:44:00	
I:\ACQUDATA\msvoa12\Data\102816\P6053.D\	BAT-DW-10-161020	R1611185-028	10/28/2016	14:44:00	
I:\ACQUDATA\msvoa12\Data\102816\P6054.D\	BAT-89-15(1)-161020	R1611185-029	10/28/2016	15:14:00	
I:\ACQUDATA\msvoa12\Data\102816\P6055.D\	BAT-DW-9-161020	R1611185-033	10/28/2016	15:44:00	

Analysis: 8260 waters | Analyst: K. Quest | Tune Method: W092616

Date: 10/24/16 | Data Path: j:\acqudata\msvoa 12\102416 | Run Method: ↓

Instr. 12 | LIMS Run#: 519947

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							P5885		(mixture)
2	TUNE		RQ1612824-01					P5889	YT	(auto) 9:40
1	CCV		02					P5890	YC	chlorometh ↑
2	LCS		03					P5891	YQ	11DCA ↑ cis12DCE ↑
3	VBLK		—					P5892	N	npt 40
4	↓		↓ 04					P5893	YB	
5	R1611021-009	1.0		0691	2	2	<2	P5894	Y	
6	003	1.0				1	<2	P5895	Y	npt 10
7	008	1.0				1	<2	P5896	Y	
8	001	2.5	20/50mls			1	<2	P5897	N	11DCA hit - npt 2.5
9	004	20	2.5/50mls			1	<2	P5898	N	↓ npt 20
10	005	100	1/100mls			1	<2	P5899	Y	npt 200
11	006	2000	1/200 → 5/50mls			1	5	P5900	N	11DCA hit - npt 2000
12	↓ 005	200	1/200mls	↓	↓	2	<2	P5901	Y	
13	R1611985-001	1.0		R429	4	1	<2	P5902	Y	npt 2.0
14	003	1.0				1	<2	P5903	N	npt 1.0 (cis12 hit)
15	004	1.0				1	<2	P5904	Y	npt 5.0
16	005	1.0				1	<2	P5905	N	npt 1.0 (11DCA+cis hits)
17	006	1.0				1	<2	P5906	Y	
18	008	5.0	10/50mls			1	<2	P5907	Y	npt 10
19	002	20	2.5/50mls			1	<2	P5908	N	npt 10
20	007	20	↓			1	<2	P5909	N	npt 1.0
21	~~MS~~ 02001	~~2.0~~	~~2.5/50mls~~ (1.0)			2	<2	P5910	Y	npt 2.5
22	~~MSD~~ 02001	~~2.0~~	↓ MS RQ1612824-05	↓	↓	3	<2	P5911	N	npt w/ parent @ 2.5
23	↓ 02001	~~2.0~~	↓ MSD ↓ 06	↓	↓	4	<2	P5912	N	↓
										EOD 1412 10/24/16

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary Acct : 175957
Primary Frt : 175954 — 5uL → 5mls = CCV
Primary TB : 176584
Primary HSL : 176445
Primary : —

200 Secondary Frt : 176055 — 5uL
500 Secondary Acct : 176245
Secondary TB : 176248 — 2uL
Secondary HSL : 176447
Secondary : —

50mls = LCS

-10.6uL Combined IS/Surr 500 : 176446
Surrogate :
Internal Std :

4.2uL / 42mL vial = mls 10

O-944

Runlog-MSVOAr3 3/29/16
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Analysis: 8260 Waters | Analyst: K. Quest | Tune Method: WD92616

Date: 10/26/16 | Data Path: j:\acqudata\msvoa12\102616 | Run Method: ↓

Instr. 12 | LIMS Run#: 520597

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
1	~~TUNE~~ BLK							~~P5949~~	~~Y~~	~~(auto) 8:10~~ (KR)
2	~~CCV~~ TUNE							P5950	Y	(auto) 8:10
3	~~LCS~~ CCV							~~P5951~~	YC	
4	~~VBLK~~ LCS							~~P5952~~	YQ	
1	VBLK							P5953	(N)	ND+40
2	↓							P5954	YR	
3	R1611185-018	1.0		13429	4	2	<2	P5955	Y	
4	003	1.0				2	<2	P5956	Y	
5	005	1.0				2	<2	P5957	Y	
6	007	1.0				2	<2	P5958	Y	
7	011	1.0				2	<2	P5959	Y	
8	013	1.0				1	<2	P5960	Y	
9	020	1.0				1	<2	P5961	(Y)	ND+(20)
10	004	5.0	10/50mls			2	<2	P5961	(Y)	DL
11	006	10	5/50mls			2	<2	P5962	(Y)	DL
12	002	10	↓			2	<2	P5963	(Y)	DL
13	009	20	25/50mls			1	<2	P5964	(Y)	ND+(10)
14	010	2.0	↓			1	<2	P5965	(Y)	ND+(5)
15	014	2.0	↓			1	<2	P5966	Y	
16	(MD) 001 ~~002~~	2.0	25/50mls			2	<2	P5967	(Y)	DL
17	↓ MS 001	2.0	↓			3	<2	P5968	YQ	
18	↓ MSD 001	2.0	↓	↓	↓	4	<2	P5969	YQ	
19	R1611201-012	1.0	MS (LD)	6656	3	4	<2	P5970	YQ	
20	↓ 012	1.0	MSD	↓	↓	5	<2	P5971	YQ	
21	NH4OH STD							P5972		

P5948 P5949 P5950 P5951 P5952 P5953 P5954 P5955 P5956 P5957 P5958 P5959 P5960

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KR 10/26/16

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary OCCT : 176503
Primary FT : 176502 | 5ml→50mls
Primary HSL : 176502 | =CCV
Primary TG : 176584
Primary :

200 Secondary FT : 176055 - 5ml
500 Secondary OCCT : 176345
Secondary TG : 176348 | 2ml
Secondary HSL : 176447
Secondary :
50mls =LCS

-10.6ml
9.2ml
42ml vial =MS/D

Combined IS/Surr 500 : 176505
Surrogate :
Internal Std :

Analysis: 8260Wwaters | Analyst: KMurest | Tune Method: W092616

Date: 10/27/16 | Data Path: j:\acqudata\msvoa 12\ 102716 | Run Method: ↓

Instr. 12 | LIMS Run#: 520650

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
1	HIGH STD							P5993		
2	BLK							P5994		
3	TUNE							P5995	YT	(auto)
1	CCV							P5996	(N)	↓ Bromom. rpt
2	CCV							P5997	(N)	
1	TUNE		(also ↑ gas std)-01					P5998	YT	(auto) 10:19
2	CCV		RQ1613055S-02					P5999	YC	
3	LCS		| 03				(N)	P6000	YQ	some cmpds ↑ rpt
4	LCS		| 03					P6001	YQ	
5	MBLK		|					P6002	(N)	rpt c/o
6	↓		↓ 04					P6003	YB	
7	R1611185-036	1.0		13489	4	2	<2	P6004	Y	
8	025	1.0				2	<2	P6005	Y	
9	022	1.0				2	<2	P6006	Y	
10	023	1.0				2	<2	P6007	Y	
11	030	1.0				2	<2	P6008	Y	
12	032	2.5	20/50mls			7	<2	P6009	(Y)	DL
13	(MB) 010	~~5.0~~	~~10/50mls~~ 1/10 - 5/50mls			2	<2	P6010	(Y)	DL
14	015	5.0	10/50mls			2	<2	P6011	Y	
15	016	5.0	|			2	<2	P6012	Y	
16	017	5.0	|			2	<2	P6013	Y	
17	019	5.0	↓			2	<2	P6014	Y	
18	009	10	5/50 mls			2	<2	P6015	Y	
19	020	20	2.5/50mls			2	<2	P6016	(Y)	DL
20	021	50	1/50mls			2	<2	P6017	Y	
21	012	50	↓			2	<2	P6018	Y	
22	MS 032	2.5	20/50mls RQ1613055-05			8	<2	P6019	YQ	
23	↓ MSD 032	2.5	↓ ↓ 06	↓	↓	8	<2	P6020	YQ	21:23 ✓
24	HIGH STD					—	—	P6021	—	

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary OCC+ : 176803
Primary F1+ : 176812 5ml → 50mls
Primary HSL : ~~176802~~
Primary 76 : 176584
Primary : = CCV (176803 1uL)

200 Secondary F1+ : 176845 - 5ml
200 Secondary OCC+ : 176845
Secondary 76+ : 176848 2ml
Secondary HSL : 176447
Secondary : = LCS (50mls / 4.2mL)

-10.6mL Combined IS/Surr 500 : 176805
Surrogate :
Internal Std :

4.2mL 42ml vial = ms/D

Analysis: 8260 waters | Analyst: K. Forest | Tune Method: WOA7616

Date: 10/28/16 | Data Path: j:\acqudata\msvoa7\21_102816 | Run Method: ↓

Instr. 12 | LIMS Run#: 521126

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUNE							P60039		
2	CCV							P60040		Bromo/iodo ↓
3	HIGH STD							P60041		
2	TUNE		R2816123859-01					P60042	YT	(auto) 9:11
3	CCV		02					P60043	YC	
4	LCS		—					P60044	(N)	(SS HSL expired)
5	LCS		03					P60045	YQ	
6	VBLK		—					P60046	(N)	ND+C/O
7	↓ (R2)		04					P60047	YR	
8	R16~~1555~~-026	1.0		13439	4	2	22	P60048	Y	
9	11155 024	1.0				2	22	P60049	Y	
10	035	1.0				2	22	P60050	Y	
11	024	10	5/50mls			2	22	P60051	Y	
12	033	10	↓			2	22	P60052	(N)	ND+ 20
13	025	20	2.5/50mls			2	22	P60053	(Y)	DL
14	029	1000	1/1000mls			2	22	P60054	(Y)	DL
15	↓ 033	20	2.5/50mls	↓	↓	3	22	P60055	(Y)	DL
16	BLK					—	—	P60056	—	
17	R1611404-003	1.0		14732	2	1	22	P60057	Y	
18	002	1.0				1	22	P60058	Y	
19	001	1.0	25/50mls			1	22	P60059	(Y)	ND+ 5.0
20	001	5.0	10/50mls			2	22	P60060	(Y)	DL
21	MS 001	5.0	R2816123859-05			2	22	P60061	YQ	
22	↓ MSD 001	5.0	↓ ↓ 06	↓	↓	2	22	P60062	YQ	
23	HIGH SD							P60063	—	
24	BLK							P60064	—	

DL

LCL 10/28/16

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary OCC : 176803
Primary FT : 176812 — 5mL → 50mls
Primary HSL : 176873 = CCV
↓ Primary TB : 176884
Primary :

200 Secondary FT : 176845 - 5mL
500 Secondary OCC+ : 176745
Secondary TB : 176748 — 2mL
↓ Secondary HSL : 176918
Secondary :
50mls = LCS

- 10.0mL Combined IS/Surr 500 : 176825
Surrogate :
Internal Std :
4.2mL

4.2mL vial = ms 10

Runlog-MSVOAr3 3/29/16

Analysis: 5260 waters | Analyst: KPuest | Tune Method: W092616

Date: 10/27/16 - Run#2 | Data Path: j:\acqudata\msvoa 12 102716 | Run Method: ↓

Instr. 12 | LIMS Run#: 520857

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
25	TUNE		RQ1613121-01					P16022	YT	(auto)
26	CCV		02					P16023	YC	
27	LCS		03					P16024	YL	
28	VBLK							P16025	(N)	
29	↓		↓ 04					P16026	YB	
30	R1611155-031	1.0		13429	4	1	12	P16027	Y	
31	033	1.0				1	12	P16028	(Y)	npt 10
32	034	1.0				1	12	P16029	(N)	npt 1.0
33	026	2.0	25/50mls			1	12	P16030	(N)	npt 1.0
34	035	2.0	↓			1	12	P16031	(N)	npt 1.0
35	025	10	5/50mls			1	12	P16032	(Y)	npt 20
36	024	25	2/50mls			1	12	P16033	(N)	npt 10
37	029	250	1/250mls			1	12	P16034	(Y)	npt 1000
38	027	500	1/500mls			1	12	P16035	Y	
39	MS 027	500	↓ RQ1613121-05			1	12	P16036	YQ	(Run 8c)
40	↓ MSD 027	500	↓ ↓ 06	↓	↓	1	12	P16037	YQ	↓ 5:54 ✓
41	BLK					—	—	P16038	—	

EOD

KP 10/28/16

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary Acct : D16503
Primary Srr : D16502 | 5mL → 50mls
Primary HSL : D16553 | = CCV
Primary TG : D16554
Primary :

200 Secondary Srr : D16815-5mL
500 Secondary Acct : D16745
Secondary TG : D16248 | 2mL
Secondary HSL : D16447
Secondary :

50mls = LCS / 4.2mL

-10.6mL Combined IS/Surr 500 : D16505
Surrogate :
Internal Std :

4.2mL Internal Std = MS/D

Appendix E

Historical Sampling Results

APPENDIX E
HISTORICAL SAMPLING RESULTS

NOTES:

U: Below Practical Quantitation Limit (PQL).
Bold: Analyte detected at given concentration.

Refer to the groundwater monitoring reports for each sampling event for complete laboratory results, including qualifiers (Appendix D - ALS, Inc. Analytical Report).

WELL NUMBER 87-01(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Oct-00	Oct-02	Oct-04	Oct-06	Oct-08	Oct-10	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.90 U	0.0
CHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	2 U	1 U	1 U	1 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.69 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.0
ACETONE	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	3.0 U	0.0
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.0
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.90 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.81 U	0.0
METHYL ETHYL KETONE	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.82 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	3 U	1 U	1 U	1 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	1 U	1 U	1 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	0.5 U	1	1 U	2 U	1 U	1 U	1 U	0.46 U	0.1
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.72 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
MIBK	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	2.1 U	0.0
TOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.75 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.74 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	3 U	3 U	3 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.76 U	0.0
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.73 U	0.0
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.0

This well was not sampled on the following dates: April, July and October of 1993;
January, April, July and October of 1994; April, July and October 1995; April and July of 1996;
January, April and July of 1997; April and October of 1998; October of 1999, 2001,2003, 2005, 2007,2009, 2011, 2012 and 2013.

WELL NUMBER 87-01(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Oct-98	Oct-00	Oct-02	Oct-04	Oct-06	Oct-08	Oct-10	Nov-12	Oct-14	Oct-16	AVG
CHLOROMETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.35 U	3.5 U	3.5 U	5.0 U	0.0
VINYL CHLORIDE	201	440	150	170	170	170	460	220	480	210	150	66	96	96	219.9
CHLOROETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	40 U	80 U	1 U	1 U	0.32 U	3.2 U	3.2 U	5.0 U	0.0
BROMOMETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.69 U	6.9 U	6.9 U	5.0 U	0.0
1 1-DICHLOROETHENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	15	5.8	6.4	2.9 U	2.9 U	5.0 U	1.9
ACETONE	500 U	810	250 U	10 U	630 U	630 U	200 U	400 U	5 U	4.6	3.0 U	30 U	30 U	7.5	58.7
CARBON DISULFIDE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1.4	1.1	0.83	17	1.9 U	5.0 U	1.5
METHYLENE CHLORIDE	842	100 U	50 U	0.5 U	130 U	130 U	20 U	34	730	1 U	0.44 U	4.4 U	4.4 U	5.0 U	114.7
TRANS-1 2-DICHLOROETHENE	50 U	100 U	50 U	5	130 U	130 U	20 U	80 U	27	7	7.3	9.5	9.1	6.3	5.1
1 1-DICHLOROETHANE	50 U	100 U	50 U	20	130 U	130 U	97	80 U	28	13	9.9	13	9.7	8.4	14.2
CIS-1 2-DICHLOROETHENE	2,130	1,600	920	1,700	1,000	870	8,600	2,100	4,000	2,200	1,700	720	660	640	2,060.0
METHYL ETHYL KETONE	500 U	810	250 U	10 U	630 U	630 U	200 U	400 U	5 U	5 U	1.3 U	13 U	13 U	25 U	57.9
CHLOROFORM	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1.2	1.1	1.4	3.4 U	3.4 U	2.1	0.4
1 1 1-TRICHLOROETHANE	145	100 U	58	66	130 U	130 U	530	85	120	56	43	22	17	13	82.5
CARBON TETRACHLORIDE	50 U	100 U	50 U	0.5 U	130 U	130 U	84	80 U	1 U	1 U	0.27 U	2.7 U	2.7 U	5.0 U	6.0
BENZENE	50 U	100 U	50 U	0.5 U	130 U	18 U	14 U	400 U	1 U	1 U	0.41 U	4.1 U	4.1 U	5.0 U	0.0
1 2-DICHLOROETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.21 U	2.1 U	2.1 U	5.0 U	0.0
TRICHLOROETHENE	951	100 U	50 U	50	38	130 U	760	190	760	250	150	110	72	120	246.5
1 2-DICHLOROPROPANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.72 U	7.2 U	7.2 U	5.0 U	0.0
BROMODICHLOROMETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.39 U	3.9 U	3.9 U	5.0 U	0.0
CIS-1 3-DICHLOROPROPENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.36 U	3.6 U	3.6 U	5.0 U	0.0
MIBK	500 U	500 U	100 U	10 U	250 U	250 U	200 U	400 U	5 U	5 U	2.1 U	21 U	21 U	25 U	0.0
TOLUENE	50 U	100 U	50 U	1	130 U	130 U	20 U	80 U	1	0.58	0.54	5.1 U	5.1 U	5.0 U	0.2
TRANS-1 3-DICHLOROPROPENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.37 U	3.7 U	3.7 U	5.0 U	0.0
1 1 2-TRICHLOROETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.23 U	2.3 U	2.3 U	5.0 U	0.0
TETRACHLOROETHENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1.3	1 U	0.36 U	3.6 U	3.6 U	5.0 U	0.1
2-HEXANONE	500 U	500 U	100 U	10 U	250 U	250 U	200 U	400 U	5 U	5 U	1.2 U	12 U	12 U	25 U	0.0
DIBROMOCHLOROMETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.32 U	3.2 U	3.2 U	5.0 U	0.0
CHLOROBENZENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.75 U	7.5 U	7.5 U	5.0 U	0.0
ETHYLBENZENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.74 U	7.4 U	7.4 U	5.0 U	0.0
P-XYLENE/M-XYLENE	50 U	100 U	50 U	0.6	130 U	130 U	20 U	240 U	3 U	3 U	0.66 U	6.6 U	6.6 U	10 U	0.0
O-XYLENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	0.82	1 U	0.76 U	7.6 U	7.6 U	5.0 U	0.1
STYRENE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.73 U	7.3 U	7.3 U	5.0 U	0.0
BROMOFORM	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.26 U	2.6 U	2.6 U	5.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	50 U	100 U	50 U	0.5 U	130 U	130 U	20 U	80 U	1 U	1 U	0.21 U	2.1 U	2.1 U	5.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; April 1998; and October 1999, 2001, 2003, 2005, 2007,2009, 2011, 2013 and 2015.

WELL NUMBER 87-02(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Oct-98	Oct-00	Oct-02	Oct-04	Oct-06	Oct-08	Oct-10	Nov-12	Oct-14	Oct-16	AVG
CHLOROMETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.35 U	7.0 U	7.0 U	50 U	0.0
VINYL CHLORIDE	73	125 U	125 U	252	1,000 U	50 U	25 U	300	250 U	25 U	25 U	8	15	160	25 U	20	5 U	1 U	18	350	280	65	39	42	330	78.1
CHLOROETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	2 U	25 U	1 U	1 U	0.32 U	6.4 U	6.4 U	50 U	0.0
BROMOMETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.69 U	14 U	14 U	50 U	0.0
1 1-DICHLOROETHENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	1	10	25 U	25 U	5 U	1 U	25 U	26	23	8.0	5.8 U	5.8 U	50 U	2.7
ACETONE	50 U	1,250 U	1,250 U	1,000 U	10,000 U	500 U	250 U	250 U	1,250 U	125 U	120 U	25 U	10 U	10 U	120 U	130 U	50 U	10 U	120 U	5 U	5 U	3.0 U	60 U	60 U	250 U	0.0
CARBON DISULFIDE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	2.4	3.5	0.19 U	3.8 U	3.8 U	50 U	0.2
METHYLENE CHLORIDE	9,880	125 U	828	16,800	1,000 U	50 U	25 U	820	250 U	25 U	25 U	5 U	0.5 U	0.7	25 U	25 U	5 U	1 U	23	3,600	1,300	10	830	8.8 U	220	1,372.5
TRANS-1 2-DICHLOROETHENE	15	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	4	19	25 U	25 U	5 U	1 U	25 U	28	18	12	18 U	18 U	50 U	3.8
1 1-DICHLOROETHANE	23	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	2	9	25 U	8	5 U	1 U	25 U	42	42	7.4	12	7.6 U	26	6.9
CIS-1 2-DICHLOROETHENE	1,640	658	1,830	7,250	7,010	510	370	6,800	2,000	340	350	170	250	3,400	300	360	480	7	530	7,300	7,800	1,900	1,100	880	5,100	2,333.4
METHYL ETHYL KETONE	50 U	1,250 U	1,250 U	1,000 U	10,000 U	500 U	250 U	250 U	1,250 U	125 U	120 U	25 U	10 U	10 U	120 U	130 U	50 U	10 U	120 U	5 U	5 U	1.3 U	26 U	26 U	250 U	0.0
CHLOROFORM	6	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	3	4	25 U	25 U	5 U	1 U	25 U	3.2	3.6	1.5	6.8 U	6.8 U	50 U	0.9
1 1 1-TRICHLOROETHANE	624	125 U	125 U	817	1,000 U	50 U	25 U	250	250 U	25 U	25 U	8	6	38	25 U	20	12	1 U	25 U	260	200	30	28	16 U	73	94.6
CARBON TETRACHLORIDE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	3 U	25 U	1 U	1 U	0.27 U	5.4 U	5.4 U	50 U	0.0
BENZENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	4 U	0.7 U	120 U	1 U	1 U	0.41 U	8.2 U	8.2 U	50 U	0.0
1 2-DICHLOROETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.21 U	4.2 U	4.2 U	50 U	0.0
TRICHLOROETHENE	13,800	941	1,540	20,000	10,000	620	130	4,000	910	320	220	130	190	1,100	230	300	580	13	760	1,900	3,000	1,000	1,200	1,200	3,900	2,719.4
1 2-DICHLOROPROPANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.72 U	14 U	14 U	50 U	0.0
BROMODICHLOROMETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.39 U	7.8 U	7.8 U	50 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.36 U	7.2 U	7.2 U	50 U	0.0
MIBK	50 U	1,250 U	1,250 U	1,000 U	10,000 U	500 U	250 U	250 U	500 U	50 U	50 U	10 U	10 U	10 U	50 U	50 U	50 U	10 U	120 U	5 U	5 U	2.1 U	42 U	42 U	250 U	0.0
TOLUENE	6	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	2	25 U	25 U	5 U	1 U	25 U	1.4	2.2	0.51 U	10 U	10 U	50 U	0.5
TRANS-1 3-DICHLOROPROPENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.37 U	7.4 U	7.4 U	50 U	0.0
1 1 2-TRICHLOROETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.23 U	4.6 U	4.6 U	50 U	0.0
TETRACHLOROETHENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	0.72	2	0.36 U	7.2 U	7.2 U	50 U	0.1
2-HEXANONE	50 U	1,250 U	1,250 U	1,000 U	10,000 U	500 U	250 U	250 U	500 U	50 U	50 U	10 U	10 U	10 U	50 U	50 U	50 U	10 U	120 U	5 U	5 U	1.2 U	25 U	25 U	250 U	0.0
DIBROMOCHLOROMETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.32 U	6.4 U	6.4 U	50 U	0.0
CHLOROBENZENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.75 U	15 U	15 U	50 U	0.0
ETHYLBENZENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	0.98	0.74 U	15 U	15 U	50 U	0.0
P-XYLENE/M-XYLENE	5 U	125 U	125 U	100 U	1,000 U	50 U	26	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	75 U	3 U	3 U	0.66 U	13 U	13 U	100 U	1.0
O-XYLENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	0.56	1.4	0.76 U	15 U	15 U	50 U	0.1
STYRENE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.73 U	15 U	15 U	50 U	0.0
BROMOFORM	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.26 U	5.2 U	5.2 U	50 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	125 U	125 U	100 U	1,000 U	50 U	25 U	50 U	250 U	25 U	25 U	5 U	0.5 U	0.5 U	25 U	25 U	5 U	1 U	25 U	1 U	1 U	0.21 U	4.2 U	4.2 U	50 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January 1994, April 1998, and October 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013 and 2015.

WELL NUMBER 87-02(3)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00
CHLOROMETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
VINYL CHLORIDE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
CHLOROETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
BROMOMETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
1 1-DICHLOROETHENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
ACETONE	10 U	10 U	10 U	10 U	10 U	10	10 U	0.5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U
CARBON DISULFIDE	1	1 U	1 U	2	1 U	1	1 U	1	2	1	3	1	1	1	0.7	5	5 U	7	1 U
METHYLENE CHLORIDE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	1 U
TRANS-1 2-DICHLOROETHENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
1 1-DICHLOROETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
CIS-1 2-DICHLOROETHENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
METHYL ETHYL KETONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U
CHLOROFORM	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
1 1 1-TRICHLOROETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
CARBON TETRACHLORIDE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
BENZENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.7 U	5 U	0.7 U	0.7 U
1 2-DICHLOROETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
TRICHLOROETHENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
1 2-DICHLOROPROPANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
BROMODICHLOROMETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
CIS-1 3-DICHLOROPROPENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
MIBK	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
TRANS-1 3-DICHLOROPROPENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
1 1 2-TRICHLOROETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
TETRACHLOROETHENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
CHLOROBENZENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
ETHYLBENZENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
P-XYLENE/M-XYLENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
O-XYLENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
STYRENE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
BROMOFORM	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U
1 1 2 2-TETRACHLOROETHANE	0.5 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U

This well was not sampled on the following dates: April, July and October 1993; January 1994; October 2011 and 2013.

WELL NUMBER 87-02(3)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	Oct-14	May-15	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.90 U	0.90 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
CHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.29 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
ACETONE	10 U	10 U	5 U	5 U	5 U	5 U	1.9	5 U	1.3 U	3.0 U	3.0 U	3.0 U	5.0 U	25 U	5 U	5 U	5.0 U	0.3
CARBON DISULFIDE	23	3	2.3	0.22	0.75	1.7	4	3.4	1.6	1.7	5.2	1.7	0.97	1.2	7.2	6.9	1.3	2.5
METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.90 U	0.90 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
1 1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
CIS-1 2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.78	0.38 U	0.81 U	0.81 U	0.81 U	1.0 U	5.0 U	0.47	1 U	1.0 U	0.0
METHYL ETHYL KETONE	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	5.0 U	25 U	25 U	25 U	5.0 U	0.0
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	5.0 U	5 U	5 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
CARBON TETRACHLORIDE	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
BENZENE	0.7 U	0.8	0.69	0.37	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.1
1 2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
TRICHLOROETHENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.46 U	0.46 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
1 2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
MIBK	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	5.0 U	25 U	5 U	5 U	5.0 U	0.0
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
2-HEXANONE	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	25 U	5 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
P-XYLENE/M-XYLENE	1 U	1 U	3 U	3 U	2 U	3 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	2.0 U	10 U	2 U	2 U	2.0 U	0.0
O-XYLENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	5.0 U	1 U	1 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January 1994; October 2011 and 2013.

WELL NUMBER 87-08(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Oct-98	Oct-00	Oct-02	Oct-04	Oct-06	Oct-08	Oct-10	Nov-12	Oct-14	Oct-16	AVG
CHLOROMETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.35 U	3.5 U	3.5 U	1.0 U	0.0
VINYL CHLORIDE	42	30	150	72	662	72	100 U	76	100	94	120 U	120 U	250 U	53	110	120	93	61	230	150	200	170	93	140	72	111.6
CHLOROETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	3	50 U	1 U	1 U	0.32 U	3.2 U	3.2 U	1.0 U	0.1
BROMOMETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.69 U	6.9 U	6.9 U	1.0 U	0.0
1 1-DICHLOROETHENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	4	50 U	4.7	5	3.9	2.9 U	2.9 U	1.9	0.8
ACETONE	50 U	250 U	250 U	500 U	5,000 U	50 U	1,000 U	260	250 U	250 U	620 U	620 U	1,200 U	500 U	500 U	200 U	500 U	10 U	250 U	5 U	5 U	3.0 U	30 U	30 U	5.0 U	10.4
CARBON DISULFIDE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.19 U	1.9 U	1.9 U	0.23	0.0
METHYLENE CHLORIDE	5 U	25 U	25 U	50 U	500 U	5 U	220	50 U	790	3,200	3,400	11,000	6,800	54	870	20 U	100 U	1 U	31	1 U	1 U	0.44 U	4.4 U	4.4 U	1.0 U	1,054.6
TRANS-1 2-DICHLOROETHENE	10	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	3	20	13	7.3	6.2	9.0 U	9.0 U	1.6	2.4
1 1-DICHLOROETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	5	50 U	5.1	4.7	3.4	3.8 U	3.8 U	1.7	0.8
CIS-1 2-DICHLOROETHENE	684	523	1,340	1,160	12,600	1,090	1,400	1,200	950	1,500	1,300	1,100	1,300	1,300	1,500	1,800	1,200	950	1,700	970	1,100	1,200	480	460	300	1,564.3
METHYL ETHYL KETONE	50 U	250 U	250 U	500 U	5,000 U	50 U	1,000 U	250 U	250 U	250 U	620 U	620 U	1,200 U	500 U	500 U	200 U	500 U	10 U	250 U	5 U	5 U	1.3 U	13 U	13 U	5.0 U	0.0
CHLOROFORM	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.34 U	3.4 U	3.4 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1.2	0.6	0.85	8.2 U	8.2 U	0.77	0.1
CARBON TETRACHLORIDE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	3 U	50 U	1 U	1 U	0.27 U	2.7 U	2.7 U	1.0 U	0.0
BENZENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	14 U	14 U	0.7 U	250 U	1 U	1 U	0.41 U	4.1 U	4.1 U	1.0 U	0.0
1 2-DICHLOROETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.21 U	2.1 U	2.1 U	1.0 U	0.0
TRICHLOROETHENE	81	57	184	94	950	49	220	200	130	650	550	550	420	790	400	56	100 U	6	43	47	18	17	5.7	4.7	3.5	221.0
1 2-DICHLOROPROPANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.72 U	7.2 U	7.2 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.39 U	3.9 U	3.9 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.36 U	3.6 U	3.6 U	1.0 U	0.0
MIBK	50 U	250 U	250 U	500 U	5,000 U	50 U	1,000 U	250 U	100 U	100 U	250 U	250 U	500 U	500 U	200 U	200 U	200 U	10 U	250 U	5 U	5 U	2.1 U	21 U	21 U	5.0 U	0.0
TOLUENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.51 U	5.1 U	5.1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.37 U	3.7 U	3.7 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.23 U	2.3 U	2.3 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.36 U	3.6 U	3.6 U	1.0 U	0.0
2-HEXANONE	50 U	250 U	250 U	500 U	5,000 U	50 U	1,000 U	250 U	100 U	100 U	250 U	250 U	500 U	500 U	200 U	200 U	200 U	10 U	250 U	5 U	5 U	1.2 U	12 U	12 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.32 U	3.2 U	3.2 U	1.0 U	0.0
CHLOROBENZENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.75 U	7.5 U	7.5 U	1.0 U	0.0
ETHYLBENZENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.74 U	7.4 U	7.4 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	150 U	3 U	3 U	0.66 U	6.6 U	6.6 U	2.0 U	0.0
O-XYLENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.76 U	7.6 U	7.6 U	1.0 U	0.0
STYRENE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.73 U	7.3 U	7.3 U	1.0 U	0.0
BROMOFORM	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.26 U	2.6 U	2.6 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	25 U	25 U	50 U	500 U	5 U	100 U	50 U	50 U	50 U	120 U	120 U	250 U	25 U	100 U	20 U	100 U	1 U	50 U	1 U	1 U	0.21 U	2.1 U	2.1 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January 1994, April 1998; and October 1999, 2001, 2003, 2005, 2007.2009, 2011, 2013 and 2015.

WELL NUMBER 87-10(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-94	Jan-95	Feb-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	Oct-14	Oct-16	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0 U	0.00
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	10 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.90 U	0.90 U	1.0 U	0.00
CHLOROETHANE	0.5 U	0.5 U	0.8	0.5 U	0.5 U	1 U	1 U	25 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	0.04
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	1.0 U	0.00
1 1-DICHLOROETHENE	0.5 U	0.5	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	0.47	1 U	1 U	0.86	0.55	1.1	0.29 U	0.29 U	1.0 U	0.17
ACETONE	50 U	10 U	10 U	10 U	10	10 U	10 U	130 U	10 U	10 U	5 U	25 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3.0 U	3.0 U	5.0 U	0.48
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	0.7	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	0.19 U	0.54	0.27	0.07
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	1.0 U	0.00
TRANS-1 2-DICHLOROETHENE	0.6	1	1	0.5 U	0.5 U	2	1	25 U	1 U	1 U	0.79	5 U	1.6	0.58	1.9	2.2	0.42 U	1.2	0.90 U	0.90 U	1.0 U	0.66
1 1-DICHLOROETHANE	2	4	6	2	1	6	4	25 U	2	3	1	5.5	3.8	1.6	3.3	5.5	2.8	2.8	7.3	3.3	1.8	3.27
CIS-1 2-DICHLOROETHENE	85	128	211	54	46	130	130	190	52	65	15	150	72	26	82	100	36	31	6.7	8.4	4.7	77.28
METHYL ETHYL KETONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	130 U	10 U	10 U	5 U	25 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	5.0 U	0.00
CHLOROFORM	0.8	2	0.5 U	5	3	2	2	25 U	3	3	4.3	2.5	2.7	1.3	3.6	1.7	6.0	1.9	2.3	2.1	1.8	2.33
1 1 1-TRICHLOROETHANE	10	15	25	8	3	16	12	25 U	1 U	13	2.8	14	9.8	6.3	14	44	18	17	4.7	1.4	0.68	11.18
CARBON TETRACHLORIDE	0.5 U	0.5 U	4	0.5 U	0.5 U	1 U	1 U	25 U	1 U	3 U	1 U	5 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	1.0 U	0.19
BENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	4 U	0.7 U	0.7 U	1 U	5 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	0.00
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	0.00
TRICHLOROETHENE	9	12	5	2	1	6	3	25 U	4	16	2.8	6.2	3.5	4.5	4	8.4	4.6	3.2	2.2	1.6	1.2	4.77
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	1.0 U	0.00
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.47	0.39 U	0.39 U	0.39 U	1.0 U	0.02
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	0.00
MIBK	50 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	5 U	25 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	5.0 U	0.00
TOLUENE	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	0.00
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	0.00
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	0.00
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	0.00
2-HEXANONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	5 U	25 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	0.00
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	0.00
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	1.0 U	0.00
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	1.0 U	0.00
P-XYLENE/M-XYLENE	0.6	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	3 U	15 U	2 U	3 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	2.0 U	0.03
O-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	1.0 U	0.00
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	1.0 U	0.00
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	0.00
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	25 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	0.00

This well was not sampled on the followng dates: April, July and October 1993; April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and April 1998, October 2011, 2013 and 2015.

WELL NUMBER 87-13(3)
ANALYTICAL SAMPLING RESULTS
(Concentrations in ug/L)

ANALYTE	Jul-93	Jan-94	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99
CHLOROMETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
VINYL CHLORIDE	9	24	22	21	25	26	23	32	62	12	10	12	9	10	18	10	32	15	19	36
CHLOROETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
BROMOMETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
1 1-DICHLOROETHENE	5 U	0.6	1	1 U	0.7	1	5 U	1	10 U	3 U	1	3 U	0.6	0.5	0.9	2 U	5 U	1 U	5 U	1 U
ACETONE	50 U	50 U	10 U	10 U	14	10 U	50 U	10	100 U	50 U	10 U	50 U	0.5 U	10 U	10 U	50 U	25 U	11	25 U	10 U
CARBON DISULFIDE	26	23	31	47	41	41	5 U	44	70	40	38	34	124	40	44	42	62	38	35	32
METHYLENE CHLORIDE	5 U	0.5 U	1	1 U	0.7	2	5 U	2	10 U	3	1	3 U	1	1	0.8	22	5 U	2 U	5 U	1 U
TRANS-1 2-DICHLOROETHENE	5 U	0.5 U	1	1 U	0.9	0.8	5 U	1	10 U	3 U	1	3 U	0.6	0.5 U	0.6	2 U	5 U	1 U	5 U	1 U
1 1-DICHLOROETHANE	5 U	0.5 U	1	1	1	2	5 U	1	10 U	3 U	1	3 U	0.5 U	0.6	0.7	2 U	5 U	1 U	5 U	1 U
CIS-1 2-DICHLOROETHENE	104	50	153	179	175	224	130	171	390	92	85	106	71	80	110	87	140	67	62	75
METHYL ETHYL KETONE	50 U	50 U	10 U	10 U	10 U	10 U	50 U	10 U	100 U	50 U	10 U	50 U	10 U	10 U	10 U	50 U	25 U	10 U	25 U	10 U
CHLOROFORM	5 U	0.5 U	0.5 U	1 U	1	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
1 1 1-TRICHLOROETHANE	5 U	0.5 U	0.5 U	1 U	1 U	1	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	1	2 U	5 U	1 U	5 U	1 U
CARBON TETRACHLORIDE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
BENZENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	0.7 U	5 U	0.7 U
1 2-DICHLOROETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
TRICHLOROETHENE	134	193	287	282	309	129	192	195	270	228	210	213	190	190	220	170	130	150	92	110
1 2-DICHLOROPROPANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
BROMODICHLOROMETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
MIBK	50 U	50 U	10 U	10 U	10 U	10 U	50 U	10 U	100 U	50 U	10 U	50 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
TOLUENE	5 U	0.6	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
1 1 2-TRICHLOROETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
TETRACHLOROETHENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
2-HEXANONE	50 U	50 U	10 U	10 U	10 U	10 U	50 U	10 U	100 U	50 U	10 U	50 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
CHLOROBENZENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
ETHYLBENZENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
P-XYLENE/M-XYLENE	5 U	0.5	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
O-XYLENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
STYRENE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
BROMOFORM	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	3 U	0.5 U	3 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	5 U	1 U	10 U	5 U	1 U	5 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	5 U	1 U

This well was not sampled on the following dates: April and October 1993, and 2013.

WELL NUMBER 87-13(3)
ANALYTICAL SAMPLING RESULTS
(Concentrations in ug/L)

ANALYTE	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	Oct-14	May-15	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.35 U	6.9 U	7.0 U	14 U	200 U	200 U	500 U	500 U	500 U	0.0
VINYL CHLORIDE	28	32	120	180	220	250	25	86	160	96	150	400	52	750	990	940	490	610	154.0
CHLOROETHANE	1 U	1 U	10 U	100 U	50 U	5 U	2 U	2 U	1 U	0.32 U	6.5 U	6.4 U	13 U	200 U	200 U	500 U	500 U	500 U	0.0
BROMOMETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.28 U	14 U	14 U	28 U	200 U	200 U	500 U	500 U	500 U	0.0
1 1-DICHLOROETHENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	1	0.67	0.87	5.9 U	5.8 U	12 U	200 U	200 U	500 U	500 U	500 U	0.3
ACETONE	10 U	10 U	50 U	500 U	250 U	25 U	10 U	10 U	5 U	1.3 U	60 U	60 U	120 U	1,000 U	1,000 U	2,500 U	2,500 U	2,500 U	0.9
CARBON DISULFIDE	41	240	130	61	50	5 U	14	45	21	37	35	32	93	440	470	870	470	710	118.2
METHYLENE CHLORIDE	1 U	6	44	54	46	13	10	46	390	5.6	8.8 U	11	18 U	200 U	200 U	500 U	500 U	500 U	16.9
TRANS-1 2-DICHLOROETHENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	0.89	1.3	18 U	18 U	36 U	320	310	500	400	390	49.4
1 1-DICHLOROETHANE	1 U	2	14	100 U	50 U	31	2.4	4.1	11	2.3	7.7 U	29	15 U	200 U	200 U	500 U	500 U	500 U	2.7
CIS-1 2-DICHLOROETHENE	60	81	830	2,500	1,400	2,400	140	330	870	270	1,500	1,700	7,400	46,000	50,000	68,000	49,000	57,000	7488.0
METHYL ETHYL KETONE	10 U	10 U	50 U	500 U	250 U	25 U	10 U	10 U	5 U	1.3 U	26 U	26 U	53 U	1,000 U	1,000 U	2,500 U	2,500 U	2,500 U	0.0
CHLOROFORM	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.34 U	6.7 U	6.8 U	14 U	490	520	500 U	1,200	810	77.5
1 1 1-TRICHLOROETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.26 U	16 U	190	33 U	200 U	200 U	500 U	500 U	500 U	4.9
CARBON TETRACHLORIDE	1 U	14	15 U	100 U	50 U	5 U	2 U	2 U	1 U	0.27 U	5.3 U	5.4 U	11 U	200 U	200 U	500 U	500 U	500 U	0.4
BENZENE	0.7 U	0.7 U	4 U	100 U	250 U	5 U	2 U	2 U	1 U	0.41 U	8.2 U	8.2 U	16 U	200 U	200 U	500 U	500 U	500 U	0.0
1 2-DICHLOROETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.21 U	4.3 U	4.2 U	8.4 U	200 U	200 U	500 U	500 U	500 U	0.0
TRICHLOROETHENE	120	83	270	75	18	4.6	12	36	2.8	49	54	24	2,100	79,000	71,000	97,000	75,000	72,000	10275.4
1 2-DICHLOROPROPANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.32 U	14 U	14 U	29 U	200 U	200 U	500 U	500 U	500 U	0.0
BROMODICHLOROMETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.39 U	7.7 U	7.8 U	16 U	86	94	500 U	280	210	17.2
CIS-1 3-DICHLOROPROPENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.36 U	7.1 U	7.2 U	14 U	200 U	200 U	500 U	500 U	500 U	0.0
MIBK	10 U	10 U	50 U	500 U	250 U	25 U	10 U	10 U	5 U	0.91 U	42 U	42 U	84 U	1,000 U	1,000 U	2,500 U	2,500 U	2,500 U	0.0
TOLUENE	1 U	1 U	5 U	100 U	50 U	7.2	2 U	2 U	3.9	0.51 U	10 U	10 U	20 U	48	54	500 U	500 U	500 U	2.9
TRANS-1 3-DICHLOROPROPENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.37 U	7.4 U	7.4 U	15 U	200 U	200 U	500 U	500 U	500 U	0.0
1 1 2-TRICHLOROETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.23 U	4.6 U	4.6 U	9.2 U	200 U	200 U	500 U	500 U	500 U	0.0
TETRACHLOROETHENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.36 U	7.3 U	7.2 U	14 U	200 U	200 U	500 U	500 U	500 U	0.0
2-HEXANONE	10 U	10 U	50 U	500 U	250 U	25 U	10 U	10 U	5 U	1.2 U	25 U	25 U	50 U	1,000 U	1,000 U	2,500 U	2,500 U	2,500 U	0.0
DIBROMOCHLOROMETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.32 U	6.4 U	6.4 U	13 U	200 U	200 U	500 U	500 U	500 U	0.0
CHLOROBENZENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.32 U	15 U	15 U	30 U	200 U	200 U	500 U	500 U	500 U	0.0
ETHYLBENZENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.18 U	15 U	15 U	30U	200 U	200 U	500 U	500 U	500 U	0.0
P-XYLENE/M-XYLENE	1 U	1 U	5 U	300 U	150 U	10 U	4 U	6 U	2 U	0.66 U	13 U	13 U	26 U	400 U	400 U	1,500 U	1,500 U	1,000 U	0.0
O-XYLENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.36 U	15 U	15 U	30 U	200 U	200 U	500 U	500 U	500 U	0.0
STYRENE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.18 U	15 U	15 U	29 U	200 U	200 U	500 U	500 U	500 U	0.0
BROMOFORM	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.26 U	5.1 U	5.2 U	10 U	200 U	200 U	500 U	500 U	500 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	1 U	5 U	100 U	50 U	5 U	2 U	2 U	1 U	0.21 U	4.3 U	4.2 U	8.4 U	200 U	200 U	500 U	500 U	500 U	0.0

This well was not sampled on the following dates: April and October 1993, and 2013.

WELL NUMBER 87-14(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Oct-98	Oct-00	Oct-02	Oct-04	Oct-06	Oct-08	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.35 U	1.8 U	0.70 U	0.70 U	0.70 U	1 U	1.0 U	0.0
VINYL CHLORIDE	7	6	4	2	2,500 U	200 U	100 U	50 U	1 U	1 U	0.90 U	4.5 U	1.8 U	1.8 U	1.8 U	1 U	1.0 U	1.1
CHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	200 U	50 U	1 U	1 U	0.32 U	1.6 U	0.64 U	0.64 U	0.64 U	1 U	1.0 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.69 U	3.5 U	1.4 U	1.4 U	1.4 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	95	44	36	23	2,500 U	500 U	100 U	50 U	1 U	1 U	0.29 U	1.5 U	0.58 U	0.58 U	0.58 U	1 U	1.0 U	11.6
ACETONE	10 U	10 U	10 U	10 U	13,000 U	2,500 U	1,000 U	250 U	5 U	2.8	3.0 U	15 U	6.0 U	6.0 U	6.0 U	2	1.9	0.4
CARBON DISULFIDE	2	0.5 U	96	2	2,500 U	500 U	100 U	50 U	1 U	1 U	0.19 U	0.95 U	0.38 U	0.38 U	0.38 U	1 U	1.0 U	5.9
METHYLENE CHLORIDE	14	820	0.5 U	0.5 U	2,500 U	500 U	100 U	26	1 U	1 U	0.44 U	2.2 U	0.88 U	0.88 U	0.88 U	1 U	1.0 U	50.6
TRANS-1 2-DICHLOROETHENE	210	45	64	29	2,500 U	500 U	100 U	50 U	2.8	1.1	0.90 U	4.5 U	1.8 U	1.8 U	1.8 U	0.34	0.34	20.7
1 1-DICHLOROETHANE	4	2	2	1	2,500 U	500 U	100 U	50 U	1 U	1 U	0.38 U	1.9 U	0.76 U	0.76 U	0.76 U	1 U	1.0 U	0.5
CIS-1 2-DICHLOROETHENE	0.5 U	9,200	7,150	3,800	4,800	1,500	4,500	39	28	23	6.2	4.1 U	1.6 U	1.6 U	1.6 U	1.6	0.91	1,826.4
METHYL ETHYL KETONE	10 U	10 U	10 U	10 U	13,000 U	2,500 U	1,000 U	250 U	5 U	5 U	1.3 U	6.6 U	2.6 U	2.6 U	2.6 U	5 U	5.0 U	0.0
CHLOROFORM	0.5 U	163	160	85	2,500 U	500 U	110	50 U	6.1	4.4	2.8	1.7 U	0.68 U	0.68 U	0.68	0.54	0.53	31.4
1 1 1-TRICHLOROETHANE	2	0.5 U	1	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.82 U	4.1 U	1.6 U	1.6 U	1.6 U	1 U	1.0 U	0.2
CARBON TETRACHLORIDE	0.5 U	0.5 U	2	0.5 U	2,500 U	500 U	300 U	50 U	1 U	1 U	0.27 U	1.4 U	0.54 U	0.54 U	0.54 U	1 U	1.0 U	0.1
BENZENE	30	15	12	6	2,500 U	70 U	70 U	250 U	1 U	1 U	0.41 U	2.1U	0.82 U	0.82 U	0.82 U	1 U	1.0 U	3.7
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.21 U	1.1 U	0.42 U	0.42 U	0.42 U	1 U	1.0 U	0.0
TRICHLOROETHENE	0.5 U	18,000	13,200	9,500	17,000	8,300	29,000	1,200	1,400	970	730	190	140	46	140	160	120	5,888.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.72 U	3.6 U	1.4 U	1.4 U	1.4 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.39 U	2 U	0.78 U	0.78 U	0.78 U	1 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.36 U	1.8 U	0.72 U	0.72 U	0.72 U	1 U	1.0 U	0.0
MIBK	10 U	10 U	10 U	10 U	5,000 U	1,000 U	1,000 U	250 U	5 U	5 U	2.1 U	11 U	4.2 U	4.2 U	4.2 U	5 U	5.0 U	0.0
TOLUENE	7	3	2	1	2,500 U	500 U	100 U	50 U	1 U	1 U	0.51 U	2.6 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	0.8
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.37 U	1.9 U	0.74 U	0.74 U	0.74 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	3	2	2	2	2,500 U	500 U	100 U	50 U	1 U	1 U	0.23 U	1.2 U	0.46 U	0.46 U	0.46 U	1 U	1.0 U	0.5
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.36 U	1.8 U	0.72 U	0.72 U	0.72 U	1 U	1.0 U	0.0
2-HEXANONE	10 U	10 U	10 U	10 U	5,000 U	1,000 U	1,000 U	250 U	5 U	5 U	1.2 U	6.2 U	02.5 U	2.5 U	2.5 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.32 U	1.6 U	0.64 U	0.64 U	0.64 U	1 U	1.0 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.75 U	3.8 U	1.5 U	1.5 U	1.5 U	1 U	1.0 U	0.0
ETHYLBENZENE	0.5 U	0.8	0.6	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.74 U	3.7 U	1.5 U	1.5 U	1.5 U	1 U	1.0 U	0.1
P-XYLENE/M-XYLENE	0.5 U	2	1	0.7	2,500 U	500 U	100 U	150 U	2 U	2 U	0.66 U	3.3 U	1.3 U	1.3 U	1.3 U	2 U	2.0 U	0.2
O-XYLENE	0.5 U	0.8	0.9	0.7	2,500 U	500 U	100 U	50 U	1 U	1 U	0.76 U	3.8 U	1.5 U	1.5 U	1.5 U	1 U	1.0 U	0.1
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.73 U	3.7 U	1.5 U	1.5 U	1.5 U	1 U	1.0 U	0.0
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.26 U	1.3 U	0.52 U	0.52 U	0.52 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	1 U	0.5 U	0.5 U	2,500 U	500 U	100 U	50 U	1 U	1 U	0.21 U	1.1 U	0.42 U	0.42 U	0.42 U	1 U	1.0 U	0.0

This well was not sampled on the following dates; April, July and October 1993, January, April, July and October 1994;
April, July and October 1995; April and July 1996; January, April and July 1997; April 1998; and October 1999, 2001
2003, 2005, 2007 and 2009.

WELL NUMBER 87-17(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
VINYL CHLORIDE	101	96	69	103	82	95	125	130	120	91	59	100	100	89	120	91	100	93	110
CHLOROETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
BROMOMETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
1 1-DICHLOROETHENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	4	2 U	25 U	3	25 U	5 U	1 U
ACETONE	50 U	500 U	500 U	250 U	250 U	500 U	250 U	250 U	125 U	125 U	120 U	120 U	50 U	50 U	120 U	25 U	130 U	50 U	10 U
CARBON DISULFIDE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
METHYLENE CHLORIDE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	3	25 U	61	25 U	5 U	1 U
TRANS-1 2-DICHLOROETHENE	6	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	4	3	25 U	2	25 U	5 U	3
1 1-DICHLOROETHANE	29	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	23	24	38	17	25 U	17	13
CIS-1 2-DICHLOROETHENE	814	747	310	757	655	660	830	610	570	670	450	590	590	530	680	540	440	370	260
METHYL ETHYL KETONE	50 U	500 U	500 U	250 U	250 U	500 U	250 U	250 U	125 U	125 U	120 U	120 U	50 U	50 U	120 U	25 U	25 U	50 U	10 U
CHLOROFORM	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	5	25 U	5 U	25 U	5 U	1 U
1 1 1-TRICHLOROETHANE	196	50 U	50 U	147	142	131	120	80	89	100	61	81	120	100	140	74	64	63	42
CARBON TETRACHLORIDE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	23
BENZENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	4 U	4 U	0.7 U
1 2-DICHLOROETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
TRICHLOROETHENE	60	104	50 U	55	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	24	13	25 U	28	25 U	11	8
1 2-DICHLOROPROPANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
BROMODICHLOROMETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
MIBK	50 U	500 U	500 U	250 U	250 U	500 U	250 U	250 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	50 U	50 U	10 U
TOLUENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
1 1 2-TRICHLOROETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
TETRACHLOROETHENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
2-HEXANONE	50 U	500 U	500 U	250 U	250 U	500 U	250 U	250 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	50 U	50 U	10 U
DIBROMOCHLOROMETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
CHLOROBENZENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
ETHYLBENZENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
P-XYLENE/M-XYLENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
O-XYLENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
STYRENE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
BROMOFORM	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	50 U	50 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	25 U	5 U	1 U

This well was not sampled on the following dates: April, July and October 1993; January 1994; April 1998.

WELL NUMBER 87-17(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Apr-13	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.35 U	0.35 U	0.35 U	3.5 U	1 U	1.4 U	1.4 U	2 U	1.0 U	0.0
VINYL CHLORIDE	110	110	220	450	170	120	180	140	130	340	420	400	230	310	260	150	155.9
CHLOROETHANE	2 U	25 U	50 U	1 U	1 U	8 U	1 U	0.32 U	0.32 U	0.32 U	3.2 U	0.68	1.3 U	1.3 U	2 U	1.0 U	0.0
BROMOMETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.28 U	0.69 U	0.69 U	6.9 U	1 U	2.8 U	2.8 U	2 U	1.0 U	0.0
1 1-DICHLOROETHENE	13	5.1	10	3.9	5.4	8 U	1.4	1.6	0.89	13	8.3	11	11	4.7	1.4	0.91	2.7
ACETONE	10 U	120 U	250 U	5 U	5 U	40 U	5 U	1.3 U	3.0 U	3 U	30 U	1 U	12 U	12 U	10 U	1.4	0.0
CARBON DISULFIDE	1 U	25 U	50 U	1 U	1.2	5.6	1	0.19 U	1.5	1.7	8.9	0.40	2.0	0.76 U	2.9	1.5	0.7
METHYLENE CHLORIDE	9	25 U	26	1 U	1 U	22	1 U	0.44 U	0.44 U	0.44	4.4 U	1 U	1.8 U	1.8 U	2 U	1.0 U	3.4
TRANS-1 2-DICHLOROETHENE	3	25 U	50 U	3.6	7.1	8 U	2.5	2.3	2.2	3.1	9.0 U	3.3	3.6 U	3.6 U	2.1	2.5	1.4
1 1-DICHLOROETHANE	44	15	27	22	20	7.4	6.1	5.1	3.9	16	64	59	38	32	27	21	15.8
CIS-1 2-DICHLOROETHENE	400	160	1,500	610	870	460	360	280	240	900	850	480	250	220	160	130	526.2
METHYL ETHYL KETONE	10 U	120 U	250 U	5 U	5 U	40 U	5 U	1.3 U	1.3 U	1.3 U	13 U	5 U	5.3 U	5.3 U	10 U	5.0 U	0.0
CHLOROFORM	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.34 U	0.34 U	0.34 U	3.4 U	1 U	1.4 U	1.4 U	2 U	1.0 U	0.1
1 1 1-TRICHLOROETHANE	210	65	120	87	82	16	13	11	6.4	93	500	450	240	170	140	89	112.3
CARBON TETRACHLORIDE	66	25 U	50 U	1 U	1 U	8 U	1 U	0.27 U	0.27 U	0.27 U	2.7 U	1 U	1.1 U	1.1 U	2 U	1.0 U	2.5
BENZENE	0.7 U	120 U	250 U	1 U	1 U	8 U	1 U	0.41 U	0.41 U	0.41 U	4.1 U	1 U	1.6 U	1.6 U	2 U	1.0 U	0.0
1 2-DICHLOROETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.21 U	0.21 U	0.21 U	2.1 U	1 U	0.84 U	0.84 U	2 U	1.0 U	0.0
TRICHLOROETHENE	100 U	25	50 U	2.7	4.6	8 U	2.2	2.9	2.3	3.9	13	7.5	4.1	5.0	13	18	11.3
1 2-DICHLOROPROPANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.32 U	0.72 U	0.72 U	7.2 U	1 U	2.9 U	2.9 U	2 U	1.0 U	0.0
BROMODICHLOROMETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.39 U	0.39 U	0.39 U	3.9 U	1 U	1.6 U	1.6 U	2 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.36 U	0.36 U	0.36 U	3.6 U	1 U	1.4 U	1.4 U	2 U	1.0 U	0.0
MIBK	10 U	120 U	250 U	5 U	5 U	40 U	5 U	0.91 U	2.1 U	2.1 U	21 U	5 U	8.4 U	8.4 U	10 U	5.0 U	0.0
TOLUENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.51 U	0.51 U	0.51 U	5.1 U	1 U	2.0 U	2.0 U	2 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.37 U	0.37 U	0.37 U	3.7 U	1 U	1.5 U	1.5 U	2 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.23 U	0.23 U	0.23 U	2.3 U	1 U	0.92 U	0.92 U	2 U	1.0 U	0.0
TETRACHLOROETHENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.36 U	0.36 U	0.36 U	3.6 U	1 U	1.4 U	1.4 U	2 U	1.0 U	0.0
2-HEXANONE	10 U	120 U	250 U	5 U	5 U	40 U	5 U	1.2 U	1.2 U	1.2 U	12 U	1 U	5.0 U	5.0 U	10 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.32 U	0.32 U	0.32 U	3.2 U	1 U	1.3 U	1.3 U	2 U	1.0 U	0.0
CHLOROBENZENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.32 U	0.75 U	0.75 U	7.5 U	1 U	3.0 U	3.0 U	2 U	1.0 U	0.0
ETHYLBENZENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.18 U	0.74 U	0.74 U	7.4 U	1 U	3.0 U	3.0 U	2 U	1.0 U	0.0
P-XYLENE/M-XYLENE	1 U	75 U	150 U	2 U	2 U	16 U	2 U	0.66 U	0.66 U	0.66 U	6.6 U	2 U	2.6 U	2.6 U	6 U	2.0 U	0.0
O-XYLENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.36 U	0.76 U	0.76 U	7.6 U	1 U	3.0 U	3.0 U	2 U	1.0 U	0.0
STYRENE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.18 U	0.73 U	0.73 U	7.3 U	1 U	2.9 U	2.9 U	2 U	1.0 U	0.0
BROMOFORM	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.26 U	0.26 U	0.26 U	2.6 U	1 U	1.0 U	1.0 U	2 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	25 U	50 U	1 U	1 U	8 U	1 U	0.21 U	0.21 U	0.21 U	2.1 U	1 U	0.84 U	0.84 U	2 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January 1994; April 1998.

WELL NUMBER 87-18(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-96	Apr-96	Apr-97	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.0
CHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.0
ACETONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	0.0
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	29	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	1.7
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.81 U	0.0
METHYL ETHYL KETONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.0
MIBK	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	0.0
TOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.0
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.0
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.0
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; January, April, July and October 1995, July and October 1996, January and July 1997 and April 1998.
This location is no longer part of the current sampling program.

WELL NUMBER 87-19(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-94	Jul-94	Jan-95	Jul-95	Jan-96	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0 U	1.0 U	0.0
VINYL CHLORIDE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.6	3	1 U	1 U	3	3	7	3	1 U	1 U	1 U	1 U	1 U	4.3	3.7	4.6	3.4	2.3	1.7	0.90 U	2.5	1.7	1.5
CHLOROETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32U	0.32 U	1.0 U	1.0 U	0.0
BROMOMETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.0 U	1.0 U	0.0
1 1-DICHLOROETHENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	1.0 U	1.0 U	0.0
ACETONE	50 U	50 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	1.3	5 U	1.3 U	3.0 U	3 U	3.0 U	3.0 U	3.0 U	5.0 U	5.0 U	0.0
CARBON DISULFIDE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.8	1 U	0.19 U	0.19 U	0.51 J	0.47	0.19 U	0.19 U	0.25	1.0 U	0.1
METHYLENE CHLORIDE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.0 U	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.9 U	0.90 U	0.90 U	0.90 U	1.0 U	1.0 U	0.0
1 1-DICHLOROETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0 U	1.0 U	0.0
CIS-1 2-DICHLOROETHENE	2	5 U	0.9	5 U	4	5	7	6	9	7	8	9	10	20	11	2.8	3.8	1.5	1 U	3	6.4	5.7	6.4	6.1	7.3	7.6	4.4	5.9	5.8	5.7
METHYL ETHYL KETONE	50 U	50 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5.0 U	5.0 U	0.0
CHLOROFORM	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.0 U	1.0 U	0.0
CARBON TETRACHLORIDE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1.0 U	1.0 U	0.0
BENZENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	1.0 U	0.0
1 2-DICHLOROETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	0.0
TRICHLOROETHENE	1	5 U	0.5 U	5 U	2	2	3	2	3	3	4	4	3	6	2 U	0.42	0.39	1 U	1 U	1 U	0.83	0.46 U	0.46 U	0.46 U	0.46 U	0.56	0.46 U	1.0 U	1.0 U	1.2
1 2-DICHLOROPROPANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.0 U	1.0 U	0.0
BROMODICHLOROMETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.0 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	1.0 U	0.0
MIBK	50 U	50 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.0 U	5.0 U	0.0
TOLUENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	0.0
TETRACHLOROETHENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	1.0 U	0.0
2-HEXANONE	50 U	50 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	1.0 U	0.0
CHLOROBENZENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1.0 U	1.0 U	0.0
ETHYLBENZENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	1.0 U	1.0 U	0.0
P-XYLENE/M-XYLENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	2.0 U	2.0 U	0.0
O-XYLENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	1.0 U	1.0 U	0.0
STYRENE	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	1.0 U	1.0 U	0.0
BROMOFORM	0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	5 U	0.5 U	5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; April and October 1994; April and October 1995; July 1996 and January and July 1997.

WELL NUMBER 87-20(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jul-93	Jan-94	Jul-94	Jan-95	Jan-96	Apr-96	Oct-96	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1 U	1 U	1.0 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.9 U	0.90 U	0.90 U	0.90 U	1 U	1 U	1.0 U	0.0
CHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	1 U	1.0 U	0.0
BROMOMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	1 U	1 U	1.0 U	0.0
ACETONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2.6	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3 U	3.0 U	3.0 U	3.0 U	5 U	5 U	1.4	0.1
CARBON DISULFIDE	0.5 U	0.5 U	1 U	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42	1 U	0.19 U	0.19 U	0.19 U	1.0	0.19 U	0.19 U	1 U	1 U	1.0 U	0.1
METHYLENE CHLORIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1 U	1 U	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.9 U	0.90 U	0.90 U	0.90 U	1 U	1 U	1.0 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	1 U	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1 U	1 U	1.0 U	0.1
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.79	1 U	1 U	1 U	1 U	0.38 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	1 U	1 U	1.0 U	0.0
METHYL ETHYL KETONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	5 U	5.0 U	0.0
CHLOROFORM	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1 U	1 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1 U	1 U	1.0 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1 U	1 U	1.0 U	0.0
BENZENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1 U	1 U	1.0 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	1 U	1.0 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.24	1 U	1.0 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1 U	1 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	1 U	1.0 U	0.0
MIBK	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5 U	5 U	5.0 U	0.0
TOLUENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1 U	1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1 U	1 U	1.0 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	1 U	1.0 U	0.0
2-HEXANONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	1 U	1.0 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1 U	1 U	1.0 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	1 U	1 U	1.0 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	2 U	2 U	2.0 U	0.0
O-XYLENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	1 U	1 U	1.0 U	0.0
STYRENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	1 U	1 U	1.0 U	0.0
BROMOFORM	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	1 U	1.0 U	0.0

This well was not sampled on the following dates: April and October 1993; April and October 1994; April, July and October 1995; July 1996 and January and April 1997.

WELL NUMBER 87-20(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jul-95	Jan-96	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Dec-01	Oct-02	Oct-03	Oct-04	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.5 U	0.35 U	0.35 U	35 U	35 U	35 U	25 U	50 U	0.0
VINYL CHLORIDE	211	281	5,000 U	207	1,000 U	250 U	1,250 U	340	1,000 U	1,000 U	500 U	1,200 U	720	200 U	510	500 U	1,100	500 U	200 U	350	50	370	650	520	670	540	1,300	1,500	1,600	1,600	830	430.6
CHLOROETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	1,000 U	200 U	500 U	1 U	25 U	200 U	3.2 U	0.32 U	0.32 U	32 U	32 U	32 U	25 U	50 U	0.0
BROMOMETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	2.8 U	0.69 U	0.69 U	69 U	69 U	69 U	25 U	50 U	0.0
1 1-DICHLOROETHENE	52	125 U	5,000 U	17	1,000 U	250 U	1,250 U	51	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	25	14	200 U	19	15	15	29 U	29 U	29 U	18	50 U	7.3
ACETONE	50 U	1,250 U	50,000 U	50 U	10,000 U	2,500 U	12,500 U	125 U	5,000 U	5,000 U	2,500 U	6,200 U	1,000 U	2,000 U	5,000 U	6,300 U	500 U	5,000 U	1,000 U	2,500 U	5 U	120 U	1,000 U	13 U	3.0 U	3 U	300 U	300 U	300 U	130 U	250 U	0.0
CARBON DISULFIDE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	0.72	14	200 U	1.9 U	2	0.93 U	19 U	19 U	19 U	25 U	50 U	0.5
METHYLENE CHLORIDE	2,250	24,800	15,600	1,250	2,680	524	1,250 U	1,000	1,000 U	1,000 U	500 U	1,200 U	200 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	250	1 U	26	200 U	4.4 U	0.44 U	0.44 U	44 U	44 U	44 U	25 U	50 U	1,560.6
TRANS-1 2-DICHLOROETHENE	35	125 U	5,000 U	27	1,000 U	250 U	1,250 U	110	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	43	35	200 U	22	29	24	90 U	90 U	90 U	24	50 U	11.3
1 1-DICHLOROETHANE	17	125 U	5,000 U	33	1,000 U	250 U	1,250 U	35	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	18	25 U	200 U	13	12	13	38 U	38 U	38 U	19	18	5.7
CIS-1 2-DICHLOROETHENE	11,400	21,600	13,700	1,280	9,360	5,320	16,800	21,000	21,000	11,000	14,000	12,000	9,700	11,000	12,000	3,300	15,000	11,000	5,000	17,000	1,700	12,000	17,000	12,000	12,000	8,100	4,200	8,300	8,700	6,800	4,700	10,901.9
METHYL ETHYL KETONE	50 U	1,250 U	50,000 U	50 U	33,700	2,500 U	12,500 U	125 U	5,000 U	13,000	2,500 U	6,200 U	1,000 U	2,000 U	5,000 U	6,300 U	500 U	5,000 U	1,000 U	2,500 U	5 U	120 U	1,000 U	13 U	1.3 U	1.3 U	130 U	130 U	130 U	130 U	250 U	1,506.5
CHLOROFORM	6	125 U	5,000 U	9	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1.7	25 U	200 U	3.4 U	1.4	1.7	34 U	34 U	34 U	25 U	18	1.2
1 1 1-TRICHLOROETHANE	5 U	595	5,000 U	480	1,000 U	250 U	1,250 U	300	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	96	15	200 U	34	35	48	82 U	82 U	82 U	23	22	53.2
CARBON TETRACHLORIDE	24	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	1500 U	200 U	500 U	1 U	25 U	200 U	2.7 U	0.27 U	0.27 U	27 U	27 U	27 U	25 U	50 U	0.8
BENZENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	70 U	140 U	140 U	180 U	14 U	350 U	200 U	500 U	1 U	120 U	200 U	4.1 U	0.41 U	0.41 U	41 U	41 U	41 U	25 U	50 U	0.0
1 2-DICHLOROETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	2.1 U	0.21 U	0.21 U	21 U	21 U	21 U	25 U	50 U	0.0
TRICHLOROETHENE	24,800	88,500	51,000	4,140	38,600	20,400	28,200	40,000	24,000	6,000	4,000	2,800	430	1,800	1,000 U	1,300 U	1,300	2,800	1,500	3,400	810	69	110	99	95	50	46 U	46 U	46 U	26	19	11,127.4
1 2-DICHLOROPROPANE	42	125 U	5,000 U	5 U	1,000 U	250 U	12,500 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.2 U	0.72 U	0.72 U	72 U	72 U	72 U	25 U	50 U	1.4
BROMODICHLOROMETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.9 U	0.39 U	0.39 U	39 U	39 U	39 U	25 U	50 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.6 U	0.36 U	0.36 U	36 U	36 U	36 U	25 U	50 U	0.0
MIBK	50 U	1,250 U	50,000 U	50 U	10,000 U	2,500 U	12,500 U	125 U	2,000 U	2,000 U	1,000 U	2,500 U	1,000 U	2,000 U	2,000 U	2,500 U	200 U	5,000 U	1,000 U	2,500 U	5 U	120 U	1,000 U	9.1 U	2.1 U	2.1 U	210 U	210 U	210 U	130 U	250 U	0.0
TOLUENE	12	125 U	5,000 U	16	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1.1	25 U	200 U	5.1 U	1.1	0.51 U	51 U	51 U	51 U	25 U	50 U	1.0
TRANS-1 3-DICHLOROPROPENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.7 U	0.37 U	0.37 U	37 U	37 U	37 U	25 U	50 U	0.0
1 1 2-TRICHLOROETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	2.3 U	0.23 U	0.23 U	23 U	23 U	23 U	25 U	50 U	0.0
TETRACHLOROETHENE	6	328	5,000 U	10	1,000 U	250 U	1,250 U	26	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	2.8	25 U	200 U	3.6 U	0.36 U	0.36 U	36 U	36 U	36 U	25 U	50 U	12.0
2-HEXANONE	50 U	1,250 U	50,000 U	50 U	10,000 U	2,500 U	12,500 U	125 U	2,000 U	2,000 U	1,000 U	2,500 U	1,000 U	2,000 U	2,000 U	2,500 U	200 U	5,000 U	1,000 U	2,500 U	5 U	120 U	1,000 U	12 U	1.2 U	1.2 U	120 U	120 U	120 U	130 U	250 U	0.0
DIBROMOCHLOROMETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.2 U	0.32 U	0.32 U	32 U	32 U	32 U	25 U	50 U	0.0
CHLOROBENZENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	3.2 U	0.75 U	0.75 U	75 U	75 U	75 U	25 U	50 U	0.0
ETHYLBENZENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	0.5	25 U	200 U	1.8 U	0.74 U	0.74 U	74 U	74 U	74 U	25 U	50 U	0.0
P-XYLENE/M-XYLENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	600 U	1,500 U	2 U	75 U	600 U	6.6 U	0.66 U	0.66 U	66 U	66 U	66 U	50 U	100 U	0.0
O-XYLENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	0.95	25 U	200 U	3.6 U	0.76 U	0.76 U	76 U	76 U	76 U	25 U	50 U	0.0
STYRENE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	1.8 U	0.73 U	0.73 U	73 U	73 U	73 U	25 U	50 U	0.0
BROMOFORM	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	2.6 U	0.26 U	0.26 U	26 U	26 U	26 U	25 U	50 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	125 U	5,000 U	5 U	1,000 U	250 U	1,250 U	25 U	1,000 U	1,000 U	500 U	1,200 U	100 U	200 U	1,000 U	1,300 U	100 U	500 U	200 U	500 U	1 U	25 U	200 U	2.1 U	0.21 U	0.21 U	21 U	21 U	21 U	25 U	50 U	0.0

This well was not sampled on the following dates; April and October 1994; April and October 1995; July 1996; January and July 1997 and October 2005.

WELL NUMBER 87-21(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jul-95	Jan-96	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07
CHLOROMETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	4	130	20 U	54	5	2 U	1 U	24	2 U	1 U	1 U	1 U	9.7
CHLOROETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	20 U	2 U	1 U	1 U	1 U	1 U
BROMOMETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
1 1-DICHLOROETHENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	6	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	0.6
ACETONE	50 U	50 U	1,250 U	50 U	500 U	500 U	250 U	125 U	125 U	25 U	50 U	25 U	200 U	100 U	100 U	25 U	10 U	100 U	10 U	5 U	5 U	5 U	5 U
CARBON DISULFIDE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	10	10 U	2 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	40 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
TRANS-1 2-DICHLOROETHENE	5 U	5 U	125 U	6	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	9	20 U	10 U	10 U	5 U	1 U	10 U	0.81	1 U	1 U	0.67	1.7
1 1-DICHLOROETHANE	5 U	7	125 U	6	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1	10 U	2 U	1 U	0.98	1.6	1.5
CIS-1 2-DICHLOROETHENE	565	1,720	802	1,000	999	575	739	270	160	340	160	2,100	37	1,200	160	31	140	1,900	60	17	47	73	370
METHYL ETHYL KETONE	50 U	50 U	1,250 U	50 U	500 U	500 U	250 U	125 U	125 U	25 U	50 U	25 U	200 U	100 U	100 U	25 U	10 U	100 U	10 U	5 U	5 U	5 U	5 U
CHLOROFORM	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	3.9	1.2	1.5	0.99	0.57
1 1 1-TRICHLOROETHANE	22	67	125 U	36	50 U	50 U	25 U	25 U	25 U	6	2.5 U	10	20 U	10 U	10 U	5 U	1 U	10 U	2.5	0.86	2.2	5.9	4
CARBON TETRACHLORIDE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	30 U	2 U	1 U	1 U	1 U	1 U
BENZENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	14 U	7 U	0.7 U	0.7 U	0.7 U	7 U	2 U	1 U	1 U	1 U	1 U
1 2-DICHLOROETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	200	1,240	375	590	431	225	247	50	28	53	15	99	20 U	700	21	7	30	270	18	3.7	5.8	13	16
1 2-DICHLOROPROPANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
MIBK	50 U	50 U	1,250 U	50 U	500 U	500 U	250 U	125 U	50 U	10 U	50 U	10 U	200 U	100 U	100 U	10 U	10 U	100 U	10 U	5 U	5 U	5 U	5 U
TOLUENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
1 1 2-TRICHLOROETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
2-HEXANONE	50 U	50 U	1,250 U	50 U	500 U	500 U	250 U	125 U	50 U	10 U	50 U	10 U	200 U	100 U	100 U	10 U	10 U	100 U	10 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
P-XYLENE/M-XYLENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	6 U	3 U	2 U	2 U	2 U
O-XYLENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
STYRENE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
BROMOFORM	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	125 U	5 U	50 U	50 U	25 U	25 U	25 U	5 U	2.5 U	5 U	20 U	10 U	10 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U

This well was not sampled on the following dates: April and October 1994; April and October 1995; July 1996; January and July 1997.

WELL NUMBER 87-21(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	4 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1 U	2.0 U	0.0
VINYL CHLORIDE	2.4	0.24 U	0.90 U	1.8	1.7	1.7	8.8	36	77	10.8
CHLOROETHANE	4 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	2.0 U	0.0
BROMOMETHANE	4 U	0.28 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1 U	2.0 U	0.0
1 1-DICHLOROETHENE	4 U	0.29 U	0.7	1.1	0.63	0.29 U	0.29 U	1 U	2.0 U	0.3
ACETONE	20 U	1.3 U	3.0 U	3 U	3.0 U	3.0 U	3.0 U	5 U	2.7	0.1
CARBON DISULFIDE	4 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1 U	2.0 U	0.3
METHYLENE CHLORIDE	4 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	U	1 U	2.0 U	0.0
TRANS-1 2-DICHLOROETHENE	4 U	0.99	1.4	1.3	0.90 U	0.90 U	0.90 U	0.92	6.7	0.9
1 1-DICHLOROETHANE	4 U	2.8	2.6	4.3	0.93	2.2	1.7	2.4	3.1	1.2
CIS-1 2-DICHLOROETHENE	200	98	140	110	27	51	95	200	460	449.9
METHYL ETHYL KETONE	20 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	10 U	0.0
CHLOROFORM	1.8	1.4	1.7	1.4	0.34 U	0.34 U	0.34 U	0.37	0.62	0.5
1 1 1-TRICHLOROETHANE	15	13	11	48	3.5	3.7 U	2.9	2.8	3.5	7.8
CARBON TETRACHLORIDE	4 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1 U	2.0 U	0.0
BENZENE	4 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1 U	2.0 U	0.0
1 2-DICHLOROETHANE	4 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	2.0 U	0.0
TRICHLOROETHENE	15	10	9.8	16	4.2	4.7	4.2	5.2	5.4	142.8
1 2-DICHLOROPROPANE	4 U	0.32 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1 U	2.0 U	0.0
BROMODICHLOROMETHANE	4 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1 U	2.0 U	0.0
CIS-1 3-DICHLOROPROPENE	4 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	2.0 U	0.0
MIBK	20 U	0.91 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5 U	10 U	0.0
TOLUENE	4 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1 U	2.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	4 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1 U	2.0 U	0.0
1 1 2-TRICHLOROETHANE	4 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1 U	2.0 U	0.0
TETRACHLOROETHENE	4 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	2.0 U	0.0
2-HEXANONE	20 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5 U	10 U	0.0
DIBROMOCHLOROMETHANE	4 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	2.0 U	0.0
CHLOROBENZENE	4 U	0.32 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	1 U	2.0 U	0.0
ETHYLBENZENE	4 U	0.18 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	1 U	2.0 U	0.0
P-XYLENE/M-XYLENE	12 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	2 U	4.0 U	0.0
O-XYLENE	4 U	0.36 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	1 U	2.0 U	0.0
STYRENE	4 U	0.18 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	1 U	2.0 U	0.0
BROMOFORM	4 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1 U	2.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	4 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	2.0 U	0.0

This well was not sampled on the following dates: April and October 1994; April and October 1995; July 1996; January and July 1997.

WELL NUMBER 87-22(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-96	Apr-96	Apr-97	Apr-98	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	1 U	0.0
CHLOROETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	1 U	0.0
ACETONE	10 U	10 U	10 U	10 U	0.0
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	1 U	0.0
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	2 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	1 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	1 U	0.0
METHYL ETHYL KETONE	10 U	10 U	10 U	10 U	0.0
CHLOROFORM	0.5 U	0.5 U	0.5 U	1 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	0.5 U	1 U	0.0
BENZENE	0.5 U	0.5 U	0.5 U	0.7 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	0.5 U	1 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	1 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	1 U	0.0
MIBK	10 U	10 U	10 U	10 U	0.0
TOLUENE	0.5 U	0.5 U	0.5 U	1 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	1 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	1 U	0.0
2-HEXANONE	10 U	10 U	10 U	10 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	1 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	1 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	1 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	0.5 U	1 U	0.0
O-XYLENE	0.5 U	0.5 U	0.5 U	1 U	0.0
STYRENE	0.5 U	0.5 U	0.5 U	1 U	0.0
BROMOFORM	0.5 U	0.5 U	0.5 U	1 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	1 U	0.5 U	1 U	0.0

This well was abandoned due to excessive damage in 2005.

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; January, April, July and October 1995; July and October 1996; January, July and October 1997; and October 1998, 1999, 200, 2001, 2002, 2003, 2004, 2005.

WELL NUMBER 87-22(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-94	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	120	130 U	130 U	50 U	1 U
VINYL CHLORIDE	114	200	274	250 U	250 U	250 U	250 U	390	260	250 U	170	120 U	120 U	180	50	250	130	210	84	270
CHLOROETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
BROMOMETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
1 1-DICHLOROETHENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	11
ACETONE	50 U	1,250 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	1,250 U	1,250 U	625 U	620 U	620 U	620 U	100 U	500 U	630 U	630 U	250 U	10 U
CARBON DISULFIDE	7	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
METHYLENE CHLORIDE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	6	100 U	130 U	130 U	50 U	1 U
TRANS-1 2-DICHLOROETHENE	12	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5	100 U	130 U	130 U	50 U	28
1 1-DICHLOROETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	2
CIS-1 2-DICHLOROETHENE	2,920	3,830	6,320	4,530	7,260	6,810	4,850	6,900	6,700	2,900	5,400	3,000	2,400	3,400	1,000	4,200	1,800	2,700	340	2,700
METHYL ETHYL KETONE	50 U	1,250 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	1,250 U	1,250 U	625 U	620 U	620 U	620 U	100 U	500 U	630 U	630 U	250 U	10 U
CHLOROFORM	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
1 1 1-TRICHLOROETHANE	14	1,010	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
CARBON TETRACHLORIDE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	14
BENZENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	18 U	7 U	0.7 U
1 2-DICHLOROETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
TRICHLOROETHENE	2,580	2,850	6,080	2,710	4,023	3,510	2,190	2,900	3,100	1,200	1,900	440	630	650	50	200	130 U	130 U	50 U	15
1 2-DICHLOROPROPANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
BROMODICHLOROMETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
MIBK	50 U	1,250 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	1,250 U	500 U	250 U	250 U	250 U	250 U	100 U	200 U	250 U	250 U	100 U	10 U
TOLUENE	5 U	456	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
1 1 2-TRICHLOROETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
TETRACHLOROETHENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
2-HEXANONE	50 U	1,250 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U	1,250 U	500 U	250 U	250 U	250 U	250 U	100 U	200 U	250 U	250 U	100 U	10 U
DIBROMOCHLOROMETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
CHLOROBENZENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
ETHYLBENZENE	5 U	188	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
P-XYLENE/M-XYLENE	5 U	883	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
O-XYLENE	5 U	284	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
STYRENE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
BROMOFORM	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	125 U	120 U	120 U	120 U	5 U	100 U	130 U	130 U	50 U	1 U

This well was not sampled on the following dates: April, July and October 1993; April 1998.

WELL NUMBER 87-22(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.35 U	0.35 U	0.35 U	7.0 U	7.0 U	3.5 U	1 U	5.0 U	3.3
VINYL CHLORIDE	1,100	50	61	230	210	120	160	320	490	200	190	500	150	140	430	192.6
CHLOROETHANE	100 U	1 U	2 U	1 U	40 U	20 U	10 U	0.32 U	0.32 U	0.32 U	6.4 U	6.4 U	3.2 U	1 U	5.0 U	0.0
BROMOMETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.28 U	0.69 U	0.69 U	14 U	14 U	6.9 U	1 U	5.0 U	0.0
1 1-DICHLOROETHENE	50 U	0.79	0.67	5.3	40 U	20 U	10 U	6.7	9.1	2.9 U	5.8 U	5.8 U	2.9 U	1.2	4.9	1.1
ACETONE	500 U	2.5	10 U	5 U	200 U	100 U	50 U	1.3 U	3.0 U	3 U	60 U	60 U	30 U	5 U	6.4	0.2
CARBON DISULFIDE	50 U	0.25	2 U	1 U	40 U	20 U	3.6	0.19 U	0.84	1.2	3.8 U	3.8 U	1.9 U	1.5	5.0 U	0.4
METHYLENE CHLORIDE	50 U	1 U	1.2	1 U	69	21	10 U	0.44 U	0.44 U	0.44 U	8.8 U	8.8 U	4.4 U	1 U	5.0 U	2.7
TRANS-1 2-DICHLOROETHENE	50 U	3.2	2.7	8.5	40 U	20 U	4.6	9.0	15	6.4	18 U	18 U	9.0 U	2.6	7.3	2.9
1 1-DICHLOROETHANE	50 U	1.5	1.5	2.9	40 U	20 U	10 U	3.9	6.1	2.8	7.6 U	7.6 U	3.8 U	4.4	5.4	0.8
CIS-1 2-DICHLOROETHENE	16,000	280	130	1,400	2,600	1,600	900	3500	4,300	2,000	1,100	2,500	750	460	1,200	3,296.7
METHYL ETHYL KETONE	500 U	5 U	10 U	5 U	200 U	100 U	50 U	1.3 U	1.3 U	1.3 U	26 U	26 U	13 U	5 U	25 U	0.0
CHLOROFORM	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.34 U	0.75	0.34 U	6.8 U	6.8 U	3.4U	1 U	1.3	0.1
1 1 1-TRICHLOROETHANE	50 U	0.3	2 U	0.89	40 U	20 U	10 U	1.3	2.0	0.89 U	16 U	16 U	8.2 U	0.6	5.0 U	28.6
CARBON TETRACHLORIDE	150 U	1 U	2 U	1 U	40 U	20 U	10 U	0.27 U	0.27 U	0.27 U	5.4 U	5.4 U	2.7 U	1 U	5.0 U	0.4
BENZENE	35 U	1 U	2 U	1 U	200 U	20 U	10 U	0.41 U	0.41 U	0.41 U	8.2 U	8.2 U	4.1 U	1 U	5.0 U	0.0
1 2-DICHLOROETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.21 U	0.21 U	0.21 U	4.2 U	4.2 U	2.1 U	1 U	5.0 U	0.0
TRICHLOROETHENE	100 U	1.8	1.6	8.7	40 U	20 U	3.6	9.1	12	4.5	9.2 U	9.2 U	4.6 U	2.2	5.0	974.3
1 2-DICHLOROPROPANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.32 U	0.72 U	0.72 U	14 U	14 U	7.2 U	1 U	5.0 U	0.0
BROMODICHLOROMETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.39 U	0.39 U	0.39 U	7.8 U	7.8 U	3.9 U	1 U	5.0 U	0.0
CIS-1 3-DICHLOROPROPENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.36 U	0.36 U	0.36 U	7.2 U	7.2 U	3.6 U	1 U	5.0 U	0.0
MIBK	500 U	5 U	10 U	5 U	200 U	100 U	50 U	0.91 U	2.1 U	2.1 U	42 U	42 U	21 U	5 U	25 U	0.0
TOLUENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.51 U	0.85	0.51 U	10 U	10 U	5.1 U	1 U	5.0 U	12.7
TRANS-1 3-DICHLOROPROPENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.37 U	0.37 U	0.37 U	7.4 U	7.4 U	3.7 U	1 U	5.0 U	0.0
1 1 2-TRICHLOROETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.23 U	0.23 U	0.23 U	4.6 U	4.6 U	2.3 U	1 U	5.0 U	0.0
TETRACHLOROETHENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.36 U	0.36 U	0.36 U	7.2 U	7.2 U	3.6 U	1 U	5.0 U	0.0
2-HEXANONE	500 U	5 U	10 U	5 U	200 U	100 U	50 U	1.2 U	1.2 U	1.2 U	25 U	25 U	12 U	5 U	25 U	0.0
DIBROMOCHLOROMETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.32 U	0.32 U	0.32 U	6.4 U	6.4 U	3.2 U	1 U	5.0 U	0.0
CHLOROBENZENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.32 U	0.75 U	0.75 U	15 U	15 U	7.5 U	1 U	5.0 U	0.0
ETHYLBENZENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.18 U	0.74 U	0.74 U	15 U	15 U	7.4 U	1 U	5.0 U	5.2
P-XYLENE/M-XYLENE	50 U	3 U	6 U	2 U	120 U	60 U	30 U	0.66 U	0.66 U	0.66 U	13 U	13 U	6.6 U	2 U	10 U	24.5
O-XYLENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.36 U	0.76 U	0.76 U	15 U	15 U	7.6 U	1 U	5.0 U	7.9
STYRENE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.18 U	0.73 U	0.73 U	15 U	15 U	7.3 U	1 U	5.0 U	0.0
BROMOFORM	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.26 U	0.26 U	0.26 U	5.2 U	5.2 U	2.6 U	1 U	5.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	50 U	1 U	2 U	1 U	40 U	20 U	10 U	0.21 U	0.21 U	0.21 U	4.2 U	4.2 U	2.1 U	1 U	5.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; April 1998.

WELL NUMBER 87-23(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jul-93	Jan-94	Jul-94	Jan-95	Jul-95	Jan-96	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-10	AVG
CHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.90 U	0.0
CHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.69 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.0
ACETONE	20 U	50 U	10 U	10 U	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	3.0 U	0.4
CARBON DISULFIDE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.0
METHYLENE CHLORIDE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.90 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.81 U	0.0
METHYL ETHYL KETONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.82 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	1	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	1 U	0.9	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.72 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
MIBK	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2.1 U	0.0
TOLUENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	1	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
2-HEXANONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	2	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.1
CHLOROBENZENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.75 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.74 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.76 U	0.0
STYRENE	0.5 U	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.73 U	0.0
BROMOFORM	0.5 U	0.5 U	3	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.1
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.0

This well was not sampled on the following dates: April and October 1993, April and October 1994, April and October 1995, July 1996, January and July 1997, October 2009.
This location is no longer part of the current sampling program.

WELL NUMBER 89-03(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-94	Jan-95	Jan-96	Oct-96	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.0
CHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.0
ACETONE	50 U	10 U	12	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	0.7
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.72	1 U	0.19 U	0.0
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.68	1 U	0.42 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	9	31	25	39	11	64	40	23	17	10	10	6.2	1 U	18	47	2.5	0.92	20.8
METHYL ETHYL KETONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.6	0.5 U	0.5 U	1 U	1 U	1 U	1 U	4	2 U	1.1	1 U	1 U	1 U	1 U	1 U	0.46 U	0.3
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
MIBK	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	0.0
TOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
2-HEXANONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.0
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.1
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.0

This well was abandoned due to excessive damage in 2010.

This well was not sampled on the following dates: April, July and October 1993; April, July and October 1994; April, July and October 1995; April and July 1996; and January, April, July, and October 1997.

This location is no longer part of the current sampling program.

WELL NUMBER 89-04(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jul-95	Jan-96	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	Oct-14	Oct-16	AVG
CHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0 U	0.0
VINYL CHLORIDE	49	36	33	12	24	5 U	5 U	5 U	5 U	5 U	2	5 U	1 U	4	12	1 U	2	3	4.6	1.5	2.1	3.8	0.90 U	1.2	0.90 U	0.40	7.3
CHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	2	4 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	0.1
BROMOMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	1.0 U	0.0
1 1-DICHLOROETHENE	19	10	6	5 U	7	5 U	6	5 U	5 U	5 U	4	5 U	3	3	4	1 U	1 U	2	1.2	1.1	1 U	1.2	0.52	0.57	0.29 U	1.0 U	2.6
ACETONE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	25 U	25 U	25 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	5 U	5 U	1.3 U	3.0 U	3.0 U	3.0 U	1.9	0.1
CARBON DISULFIDE	98	80	88	73	74	67	94	5 U	42	150	86	110	110	99	83	44	80	84	90	63	57	9.8	15	30	12	11	67.3
METHYLENE CHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	5 U	5 U	5 U	6	5 U	5 U	5 U	5 U	5 U	5 U	2	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	0.64	0.67	1.6	1.5	1.3	0.90 U	0.41	0.5
1 1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0 U	0.0
CIS-1 2-DICHLOROETHENE	96	76	71	40	60	37	39	5 U	18	22	23	22	18	19	29	12	19	17	24	10	8.7	7.7	4.8	3.2	2.3	2.1	26.2
METHYL ETHYL KETONE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	25 U	25 U	25 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	5.0 U	0.0
CHLOROFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	1.0 U	0.0
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	3 U	4 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	1.0 U	0.0
BENZENE	6	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	4 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	0.2
1 2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	0.0
TRICHLOROETHENE	12	8	8	7	6	5 U	6	5 U	5 U	6	6	7	6	6	7	4	7	5	4.8	3.7	3.3	1.8	1.7	1.5	1.3	1.4	4.6
1 2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	0.0
MIBK	50 U	50 U	50 U	50 U	50 U	50 U	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	5.0 U	0.0
TOLUENE	6	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	0.2
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	0.0
2-HEXANONE	50 U	50 U	50 U	50 U	50 U	50 U	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	0.0
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	1.0 U	0.0
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	12 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	2.0 U	0.0
O-XYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	1.0 U	0.0
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	1.0 U	0.0
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	0.0

This well was not sampled on the following dates: April and October 1994; April and October 1995; July 1996; January and July 1997 and October 2004, 2005, 2006, 2011, 2013 and 2015.

WELL NUMBER 89-14(0)
ANALYTICAL SAMPLING RESULTS
(Concentrations in ug/L)

ANALYTE	Jul-93	Jan-94	Jul-94	Jan-95	Jan-96	Apr-96	Oct-96	Apr-97	Apr-98	Oct-01	Oct-02	Oct-03	Oct-05	Oct-06	Oct-08	Oct-09	Oct-10	Nov-12	Oct-14	AVG
CHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.90 U	0.90 U	0.0
CHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.29 U	0.0
ACETONE	36	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3.0 U	3.0 U	1.9
CARBON DISULFIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	0.19 U	0.19 U	0.0
METHYLENE CHLORIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.90 U	0.90 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.81 U	0.81 U	0.81 U	0.0
METHYL ETHYL KETONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.46 U	0.46 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.33 U	0.72 U	0.72 U	0.72 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.0
MIBK	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	0.0
TOLUENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.0
2-HEXANONE	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	3 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	0.0
STYRENE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	0.1
BROMOFORM	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.0

This well was not sampled on the following dates: April and October 1993; April and October 1994; April, July and October 1995; July 1996; January, July and October 1997, October 1998, 1999, 2000, 2004, 2007, 2011, 2013 and 2015.
No sample was collected in 2016 due to insuffient water volume in the well.

WELL NUMBER 89-14(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jul-93	Jan-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.35 U	0.35 U	0.35 U	0.70 U	0.70 U	1.4 U	2 U	2.0 U	0.0
VINYL CHLORIDE	10	64	69	50 U	25 U	25 U	27	41	25	30	63	7.1	25	53	66	5 U	54	48	130	190	57	240	250	220	250	76.8
CHLOROETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	20 U	5 U	1 U	1 U	5 U	5 U	5 U	0.32 U	0.32 U	0.32 U	0.73	0.64 U	1.3 U	2 U	2.0 U	0.0
BROMOMETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.28 U	0.69 U	0.69 U	1.4 U	1.4 U	2.8 U	2 U	2.0 U	0.0
1 1-DICHLOROETHENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1.5	2.3	5 U	5 U	2.6	1.6	1.4	8	1.3	1.3	1.2 U	2 U	2.0 U	0.8
ACETONE	50 U	50 U	250 U	250 U	120 U	120 U	50 U	130 U	50 U	10 U	100 U	25 U	5 U	5 U	25 U	25 U	25 U	1.3 U	3.0 U	3 U	6.0 U	6.0 U	12 U	10 U	3.9	0.2
CARBON DISULFIDE	5 U	5	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	0.58	1 U	5 U	9.2	3.2	0.66	2.1	1.1	2.1	0.38 U	0.76 U	2 U	0.80	1.0
METHYLENE CHLORIDE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	6.9 U	6.1	6.1	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	1.8 U	2 U	2.0 U	0.5
TRANS-1 2-DICHLOROETHENE	5 U	7	25 U	50 U	25 U	25 U	5 U	25 U	5 U	2	10 U	5 U	1.8	2.4	5 U	5 U	5 U	1.5	1.9	2	1.8 U	1.8 U	3.6 U	1.6	2.3	0.9
1 1-DICHLOROETHANE	7	13	25 U	50 U	25 U	25 U	13	25 U	5 U	7	21	4.9	6.8	10	9.3	5.7	9.8	8.1	12	28	21	22	17	16	20	10.1
CIS-1 2-DICHLOROETHENE	266	550	718	630	490	350	500	530	450	630	990	150	280	360	420	250	410	300	340	330	130	220	160	110	130	387.8
METHYL ETHYL KETONE	50 U	50 U	250 U	250 U	120 U	120 U	50 U	130 U	50 U	10 U	100 U	25 U	5 U	5 U	25 U	25 U	25 U	1.3 U	1.3 U	1.3 U	2.6 U	2.6 U	5.3 U	10 U	10 U	0.0
CHLOROFORM	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.34 U	0.34 U	0.34 U	0.68 U	0.68 U	1.4 U	2 U	2.0 U	0.0
1 1 1-TRICHLOROETHANE	27	30	25	50 U	26	25 U	22	25 U	5 U	6	42	4.7	4.9	5.7	4.7	5.3	11	9.5	8.9	59	3.9	2.6	3.3 U	1.1	2.0	12.1
CARBON TETRACHLORIDE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	30 U	5 U	0.61	1 U	5 U	5 U	5 U	0.27 U	0.27 U	0.27 U	0.54 U	0.54 U	1.1 U	2 U	2.0 U	0.0
BENZENE	5 U	5 U	25 U	50 U	25 U	25 U	4 U	4 U	4 U	0.7 U	7 U	5 U	1 U	1 U	5 U	5 U	5 U	0.41 U	0.41 U	0.41 U	0.82 U	0.82 U	1.6 U	2 U	2.0 U	0.0
1 2-DICHLOROETHANE	5 U	24	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.21 U	0.21 U	0.21 U	0.42 U	0.42 U	0.84 U	2 U	2.0 U	1.0
TRICHLOROETHENE	16	5 U	42	50 U	25 U	25 U	30	25 U	30	8	72	15	11	12	4.4	4.3	8.4	5.5	4.6	5.9	2.6	2.3	1.8 U	1.5	1.7	11.1
1 2-DICHLOROPROPANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.32 U	0.72 U	0.72 U	1.4 U	1.4 U	2.9 U	2 U	2.0 U	0.0
BROMODICHLOROMETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.39 U	0.39 U	0.39 U	0.78 U	0.78 U	1.6 U	2 U	2.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U	1.4 U	2 U	2.0 U	0.0
MIBK	50 U	50 U	250 U	250 U	50 U	50 U	50 U	50 U	50 U	10 U	100 U	25 U	5 U	5 U	25 U	25 U	25 U	0.91 U	2.1 U	2.1 U	4.2 U	4.2 U	8.4 U	10 U	10 U	0.0
TOLUENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.51 U	0.51 U	0.51 U	1.0 U	1.0 U	2.0 U	2 U	2.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.37 U	0.37 U	0.37 U	0.74 U	0.74 U	1.5 U	2 U	2.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.23 U	0.23 U	0.23 U	0.46 U	0.46 U	0.92 U	2 U	2.0 U	0.0
TETRACHLOROETHENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U	1.4 U	2 U	2.0 U	0.0
2-HEXANONE	50 U	50 U	250 U	250 U	50 U	50 U	50 U	50 U	50 U	10 U	100 U	25 U	5 U	5 U	25 U	25 U	25 U	1.2 U	1.2 U	1.2 U	2.5 U	2.5 U	5.0 U	10 U	10 U	0.0
DIBROMOCHLOROMETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.32 U	0.32 U	0.32 U	0.64 U	0.64 U	1.3 U	2 U	2.0 U	0.0
CHLOROBENZENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.32 U	0.75 U	0.75 U	1.5 U	1.5 U	3.0 U	2 U	2.0 U	0.0
ETHYLBENZENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.18 U	0.74 U	0.74 U	1.5 U	1.5 U	3.0 U	2 U	2.0 U	0.0
P-XYLENE/M-XYLENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	15 U	3 U	2 U	15 U	15 U	15 U	0.66 U	0.66 U	0.66 U	1.3 U	1.3 U	2.6 U	4 U	4.0 U	0.0
O-XYLENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.36 U	0.76 U	0.76 U	1.5 U	1.5 U	3.0 U	2 U	2.0 U	0.0
STYRENE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.18 U	0.73 U	0.73 U	1.5 U	1.5 U	2.9 U	2 U	2.0 U	0.0
BROMOFORM	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.26 U	0.26 U	0.26 U	0.52 U	0.52 U	1.0 U	2 U	2.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	25 U	50 U	25 U	25 U	5 U	25 U	5 U	1 U	10 U	5 U	1 U	1 U	5 U	5 U	5 U	0.21 U	0.21 U	0.21 U	0.42 U	0.42 U	0.84 U	2 U	2.0 U	0.0

This well was not sampled on the following dates: April and October 1993; April, July and October 1994; April, July and October 1995, April and July 1996; January, April and July 1997 and April 1998.

WELL NUMBER 89-15(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jul-93	Jan-94	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	2,500 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
VINYL CHLORIDE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	36	250 U	2,500 U	270	1,000 U	300
CHLOROETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
BROMOMETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
1 1-DICHLOROETHENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	26
ACETONE	25,000 U	50,000 U	50,000 U	500 U	500 U	2,500 U	125,000 U	250,000 U	125,000 U	25,000 U	25,000 U	62,500 U	6,200 U	620 U	620 U	500 U	1,200 U	13,000 U	500 U	13,000 U	10 U
CARBON DISULFIDE	2,500 U	5,000	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	10
METHYLENE CHLORIDE	149,000	228,000	65,200	1,280	394,000	448,000	332,000	524,000	330,000	72,000	180,000	120,000	20,000	1,600	3,300	2,500	1,500	4,500	1,800	15,000	15,000
TRANS-1 2-DICHLOROETHENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	88
1 1-DICHLOROETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	21
CIS-1 2-DICHLOROETHENE	5,700	10,500	5,000 U	530	4,210	4,950	12,500 U	25,000 U	12,500 U	12,000	17,000	12,500 U	2,000	2,000	860	840	950	750	2,600	5,000	10,000
METHYL ETHYL KETONE	25,000 U	50,000 U	50,000 U	500 U	500 U	2,500 U	125,000 U	250,000 U	125,000 U	25,000 U	25,000 U	62,500 U	6,200 U	620 U	620 U	500 U	1,200 U	13,000 U	500 U	13,000 U	10 U
CHLOROFORM	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	6
1 1 1-TRICHLOROETHANE	2,500 U	5,000 U	5,000 U	50 U	1,670	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	64	250 U	2,500 U	50 U	2,500 U	120
CARBON TETRACHLORIDE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	41
BENZENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	35 U	350 U	0.7 U
1 2-DICHLOROETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
TRICHLOROETHENE	7,540	702,000	7,520	1,520	334,000	82,300	122,000	366,000	59,000	62,000	75,000	58,000	21,000	1,700	6,100	22,000	6,900	16,000	6,600	33,000	31,000
1 2-DICHLOROPROPANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
BROMODICHLOROMETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
CIS-1 3-DICHLOROPROPENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
MIBK	25,000 U	50,000 U	50,000 U	500 U	500 U	2,500 U	125,000 U	250,000 U	125,000 U	10,000 U	10,000 U	25,000 U	2,500 U	250 U	250 U	500 U	500 U	5,000 U	500 U	5,000 U	10 U
TOLUENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	5,000 U	13
TRANS-1 3-DICHLOROPROPENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
1 1 2-TRICHLOROETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
TETRACHLOROETHENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	9
2-HEXANONE	25,000 U	50,000 U	50,000 U	500 U	500 U	2,500 U	125,000 U	250,000 U	125,000 U	10,000 U	10,000 U	25,000 U	2,500 U	250 U	250 U	500 U	500 U	5,000 U	500 U	5,000 U	10 U
DIBROMOCHLOROMETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
CHLOROBENZENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
ETHYLBENZENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	3
P-XYLENE/M-XYLENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	2
O-XYLENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
STYRENE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
BROMOFORM	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U
1 1 2 2-TETRACHLOROETHANE	2,500 U	5,000 U	5,000 U	50 U	50 U	250 U	12,500 U	25,000 U	12,500 U	5,000 U	5,000 U	12,500 U	1,200 U	120 U	120 U	25 U	250 U	2,500 U	50 U	2,500 U	1 U

This well was not sampled on the following dates: April and October 1993; April 1998.

WELL NUMBER 89-15(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.35 U	0.35 U	0.35 U	35 U	70 U	70 U	250 U	250 U	0.0
VINYL CHLORIDE	2	2,000 U	1,000 U	1 U	330	100 U	250	210	220	150	170	210	200	210	390	79.7
CHLOROETHANE	2 U	2,000 U	1,000 U	1 U	1.9	100 U	100 U	0.32 U	0.32 U	0.32 U	32 U	64 U	64 U	250 U	250 U	0.1
BROMOMETHANE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.28 U	0.69 U	0.69 U	69 U	140 U	140 U	250 U	250 U	0.0
1 1-DICHLOROETHENE	1 U	2,000 U	1,000 U	1 U	84	100 U	100 U	22	12	25	29 U	58 U	58 U	250 U	250 U	4.6
ACETONE	10 U	10,000 U	5,000 U	5 U	5 U	500 U	500 U	1.3 U	3.0 U	3 U	300 U	600 U	600 U	1,200 U	1300 U	0.0
CARBON DISULFIDE	1 U	2,000 U	1,000 U	1 U	54	100 U	100 U	4.7	7.9	9.4	19 U	38 U	38 U	250 U	110	140.4
METHYLENE CHLORIDE	1,000	46,000	8,400	4.8	86,000	7,900	13,000	22,000	16,000	0.44 U	14,000	32,000	36,000	25,000	110,000	89,891.5
TRANS-1 2-DICHLOROETHENE	1 U	2,000 U	1,000 U	1 U	65	100 U	100 U	21	19	11	90 U	180 U	180 U	250 U	250 U	5.5
1 1-DICHLOROETHANE	1 U	2,000 U	1,000 U	1.3	42	100 U	100 U	21	13	25	38 U	76 U	76 U	250 U	250 U	3.3
CIS-1 2-DICHLOROETHENE	120	5,700	6,700	210	16,000	1,000	13,000	8,500	8,800	4,200	3,100	4,000	6,400	4,800	17,000	4,849.2
METHYL ETHYL KETONE	10 U	10,000 U	5,000 U	5 U	5 U	500 U	500 U	1.3 U	1.3 U	1.3 U	130 U	260 U	260 U	1300 U	1300 U	0.0
CHLOROFORM	1 U	2,000 U	1,000 U	1 U	15	100 U	100 U	2.4	1.4	1.3	34 U	68 U	68 U	250 U	410	11.8
1 1 1-TRICHLOROETHANE	7	2,000 U	1,000 U	0.9	1,200	100 U	100 U	63	32	160	82 U	160 U	160 U	250 U	230	95.9
CARBON TETRACHLORIDE	3 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.27 U	0.27 U	0.27 U	27 U	54 U	54 U	250 U	250 U	1.1
BENZENE	0.7 U	2,000 U	1,000 U	1 U	1.6	100 U	100 U	0.43	0.41 U	0.41 U	41 U	82 U	82 U	250 U	250 U	0.1
1 2-DICHLOROETHANE	1 U	2,000 U	1,000 U	1 U	1.8	100 U	100 U	0.21 U	0.21 U	0.21 U	21 U	42 U	42 U	250 U	250 U	0.0
TRICHLOROETHENE	1,700	180,000	36,000	120	87,000	9,100	7,600	8,800	6,500	7,200	4,900	20,000	62,000	43,000	140,000	71,218.9
1 2-DICHLOROPROPANE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.32 U	0.72 U	0.72 U	72 U	140 U	140 U	250 U	250 U	0.0
BROMODICHLOROMETHANE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.39 U	0.39 U	0.39 U	39 U	78 U	78 U	250 U	130	3.5
CIS-1 3-DICHLOROPROPENE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.36 U	0.36 U	0.36 U	36 U	72 U	72 U	250 U	250 U	0.0
MIBK	10 U	10,000 U	5,000 U	5 U	4.3	500 U	500 U	0.91 U	2.1 U	2.1 U	210 U	420 U	420 U	1,200 U	1300 U	0.1
TOLUENE	1 U	2,000 U	1,000 U	1 U	40	100 U	100 U	2.9	2.1	2.2	51 U	100 U	100 U	250 U	250 U	1.6
TRANS-1 3-DICHLOROPROPENE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.37 U	0.37 U	0.37 U	37 U	74 U	74 U	250 U	250 U	0.0
1 1 2-TRICHLOROETHANE	1 U	2,000 U	1,000 U	1 U	2.6	100 U	100 U	0.23 U	0.23 U	0.23 U	23 U	46 U	46 U	250 U	250 U	0.1
TETRACHLOROETHENE	1 U	2,000 U	1,000 U	1 U	40	100 U	100 U	4	2.2	2	36 U	72 U	72 U	250 U	250 U	1.5
2-HEXANONE	10 U	10,000 U	5,000 U	5 U	5 U	500 U	500 U	1.2 U	1.2 U	1.2 U	120 U	250 U	250 U	1,200 U	1300 U	0.0
DIBROMOCHLOROMETHANE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.32 U	0.32 U	0.32 U	32 U	64 U	64 U	250 U	250 U	0.0
CHLOROBENZENE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.32 U	0.75 U	0.75 U	75 U	150 U	150 U	250 U	250 U	0.0
ETHYLBENZENE	1 U	2,000 U	1,000 U	1 U	5.2	100 U	100 U	0.69	0.74 U	0.74 U	74 U	150 U	150 U	250 U	250 U	0.2
P-XYLENE/M-XYLENE	1 U	6,000 U	3,000 U	2 U	15	300 U	300 U	1.1	0.98	0.66	66 U	130 U	130 U	750 U	500 U	0.5
O-XYLENE	1 U	2,000 U	1,000 U	1 U	7	100 U	100 U	0.89	0.81	0.76 U	76 U	150 U	150 U	250 U	250 U	0.2
STYRENE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.18 U	0.73 U	0.73 U	73 U	150 U	150 U	250 U	250 U	0.0
BROMOFORM	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.26 U	0.26 U	0.26 U	26 U	52 U	52 U	250 U	250 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	2,000 U	1,000 U	1 U	1 U	100 U	100 U	0.21 U	0.21 U	0.21 U	21 U	42 U	42 U	250 U	250 U	0.0

This well was not sampled on the following dates: April and October 1993; April 1998.

WELL NUMBER 89-16(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	AVG
CHLOROMETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.0
CHLOROETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.0
ACETONE	50 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	0.0
CARBON DISULFIDE	0.5 U	0.5 U	5 U	1	0.5 U	1 U	2	1 U	1 U	1 U	0.4	1 U	1 U	1 U	3.6	0.64	1.3	0.86	0.5
METHYLENE CHLORIDE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	5 U	0.5 U	0.7	1 U	1 U	1 U	1 U	1 U	0.47	0.4	0.78	1 U	0.63	0.42	0.66	0.81 U	0.2
METHYL ETHYL KETONE	50 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.0
MIBK	50 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	0.0
TOLUENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.0
2-HEXANONE	50 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.0
STYRENE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.0
BROMOFORM	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.0

This well was not sampled on the following dates: April, July and October 1993; April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; April 1998.
This location is no longer part of the current sampling program.

WELL NUMBER 89-17(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Jan-02	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.90 U	0.0
CHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.0
ACETONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4.2	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3.0 U	0.2
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	0.6	0.5 U	1 U	4	1 U	34	1 U	0.6	0.64	0.66	1 U	1.3	1.6	0.19 U	1.6	3.0	2.5
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.90 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	0.47	1 U	1 U	1 U	1 U	0.38 U	0.81 U	0.81 U	0.0
METHYL ETHYL KETONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	0.0
CHLOROFORM	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.0
BENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.56	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.46 U	0.0
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.0
MIBK	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	0.0
TOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.0
2-HEXANONE	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.0
O-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.0
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.0
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.0

This well was not sampled on the following dates: April, July and October 1993; April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; April 1998.
This location is no longer part of the current sampling program.

WELL NUMBER 93-03(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
VINYL CHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
CHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
BROMOMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
1 1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
ACETONE	63	108	50 U	50 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1	0.7	0.5 U	2	5 U	1	1 U	1 U
METHYLENE CHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	2 U	5 U	1 U	1 U	1 U
TRANS-1 2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
1 1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
CIS-1 2-DICHLOROETHENE	11	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	1	0.6	1 U	3	1	1 U	1 U
METHYL ETHYL KETONE	50 U	50 U	50 U	50 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U
CHLOROFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
1 1 1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.7 U	5 U	0.7 U	0.7 U	0.7 U
1 2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
1 2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
MIBK	50 U	50 U	50 U	50 U	50 U	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
1 1 2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
2-HEXANONE	50 U	5 U	50 U	50 U	50 U	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
P-XYLENE/M-XYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
O-XYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	1 U	1 U	1 U

This well was not sampled on the following dates: April and October 1994; April, July and October 1995.

WELL NUMBER 93-03(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Apr-14	Oct-14	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1 U	0.35 U	1 U	1 U	1 U	1.0 U	0.0
VINYL CHLORIDE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.24 U	0.90 U	0.9 U	0.90 U	0.90 U	1 U	0.90 U	1 U	1 U	1 U	1.0 U	0.0
CHLOROETHANE	2 U	1 U	1 U	5 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	0.32 U	1 U	1 U	1 U	1.0 U	0.0
BROMOMETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	0.69 U	1 U	0.69 U	1 U	1 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	1 U	0.29 U	1 U	1 U	1 U	1.0 U	0.0
ACETONE	10 U	5 U	5 U	28	16	5 U	5 U	1.3 U	3.0 U	3 U	3.0 U	3.0 U	5 U	3.0 U	5 U	5 U	5 U	5.0 U	5.7
CARBON DISULFIDE	1 U	1 U	1 U	5 U	1 U	2.6	1 U	0.19 U	0.98	0.7	1.4	1.2	1 U	1.2	1 U	4.5	2	0.23	0.5
METHYLENE CHLORIDE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1 U	0.44 U	1 U	1 U	1.7	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.42 U	0.90 U	0.9 U	0.90 U	0.90 U	1 U	0.90 U	1 U	1 U	1 U	1.0 U	0.0
1 1-DICHLOROETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	1 U	0.38 U	1 U	1 U	1 U	1.0 U	0.0
CIS-1 2-DICHLOROETHENE	1 U	1 U	1 U	5 U	1 U	2.6	0.48	1.6	0.91	1.2	1.3	0.81 U	1 U	0.81 U	1 U	0.37	1 U	0.90	0.8
METHYL ETHYL KETONE	10 U	5 U	5 U	25 U	2.6	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	5 U	5 U	5 U	5.0 U	0.1
CHLOROFORM	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1 U	0.34 U	1 U	1 U	1 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	0.82 U	1 U	0.82 U	1 U	1 U	1 U	1.0 U	0.0
CARBON TETRACHLORIDE	3 U	1 U	1 U	5 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1 U	0.27 U	1 U	1 U	1 U	1.0 U	0.0
BENZENE	0.7 U	1 U	1 U	5 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1 U	0.41 U	1 U	1 U	1 U	1.0 U	0.0
1 2-DICHLOROETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	0.21 U	1 U	1 U	1 U	1.0 U	0.0
TRICHLOROETHENE	2 U	1 U	1 U	5 U	1.6 U	1 U	1 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1 U	0.46 U	1 U	1 U	1 U	1.0 U	0.0
1 2-DICHLOROPROPANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	0.72 U	1 U	0.72 U	1 U	1 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1 U	0.39 U	1 U	1 U	1 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	0.36 U	1 U	1 U	1 U	1.0 U	0.0
MIBK	10 U	5 U	5 U	25 U	5 U	5 U	5 U	0.91U	2.1 U	2.1 U	2.1 U	2.1 U	5 U	2.1 U	5 U	5 U	5 U	5.0 U	0.0
TOLUENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1 U	0.51 U	1 U	1 U	1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1 U	0.37 U	1 U	1 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1 U	0.23 U	1 U	1 U	1 U	1.0 U	0.0
TETRACHLOROETHENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	0.36 U	1 U	1 U	1 U	1.0 U	0.0
2-HEXANONE	10 U	5 U	5 U	25 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5 U	1.2 U	5 U	5 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	0.32 U	1 U	1 U	1 U	1.0 U	0.0
CHLOROBENZENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	0.75 U	1 U	0.75 U	1 U	1 U	1 U	1.0 U	0.0
ETHYLBENZENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	0.74 U	1 U	0.74 U	1 U	1 U	1 U	1.0 U	0.0
P-XYLENE/M-XYLENE	1 U	3 U	3 U	10 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	2 U	0.66 U	2 U	2 U	2 U	2.0 U	0.0
O-XYLENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	0.76 U	1 U	0.76 U	1 U	1 U	1 U	1.0 U	0.0
STYRENE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	0.73 U	1 U	0.73 U	1 U	1 U	1 U	1.0 U	0.0
BROMOFORM	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1 U	0.26 U	1 U	1 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	1 U	1 U	5 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	0.21 U	1 U	1 U	1 U	1.0 U	0.0

This well was not sampled on the following dates: April and October 1994; April, July and October 1995.

WELL NUMBER 94-02(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Jan-02	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	AVG
CHLOROMETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.0
VINYL CHLORIDE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.90 U	0.0
CHLOROETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	2	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.1
BROMOMETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.0
1 1-DICHLOROETHENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.0
ACETONE	50 U	25 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3.0 U	0.0
CARBON DISULFIDE	5 U	5 U	5 U	0.5 U	1 U	3	1 U	1 U	1 U	1 U	0.43	1 U	1 U	3.8	1.7	1.0	8.5	1.4	1.1
METHYLENE CHLORIDE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.0
TRANS-1 2-DICHLOROETHENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.90 U	0.0
1 1-DICHLOROETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.0
CIS-1 2-DICHLOROETHENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.67	0.81 U	0.81 U	0.0
METHYL ETHYL KETONE	50 U	25 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	0.0
CHLOROFORM	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.0
1 1 1-TRICHLOROETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.92 U	0.0
CARBON TETRACHLORIDE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.0
BENZENE	5 U	5 U	5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.0
1 2-DICHLOROETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.0
TRICHLOROETHENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 U	0.46 U	0.46 U	0.0
1 2-DICHLOROPROPANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.0
BROMODICHLOROMETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.0
MIBK	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	0.0
TOLUENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.0
1 1 2-TRICHLOROETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.0
TETRACHLOROETHENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.0
2-HEXANONE	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	0.0
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.0
CHLOROBENZENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.0
ETHYLBENZENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.0
P-XYLENE/M-XYLENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	5 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.0
O-XYLENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.0
STYRENE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.0
BROMOFORM	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	5 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and April 1998.
This location is no longer part of the current sampling program.

WELL NUMBER B-8
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Nov-12	Oct-14	Oct-16	AVG
CHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0 U	0.0
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.90 U	0.90 U	1.0 U	0.0
CHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	0.0
BROMOMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	1.0 U	0.0
1 1-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 U	0.29 U	0.29 U	0.29 U	1.0 U	0.0
ACETONE	10 U	10 U	10 U	12	25 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3.0 U	3.0 U	5.0 U	0.6
CARBON DISULFIDE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U	0.0
METHYLENE CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.2 U	1 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.42 U	0.90 U	0.90 U	0.90 U	1.0 U	0.0
1 1-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.38 U	0.38 U	0.38 U	0.38 U	1.0 U	0.0
CIS-1 2-DICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.8	1 U	36	0.38 U	0.81 U	0.81 U	0.81 U	1.0 U	2.0
METHYL ETHYL KETONE	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	5.0 U	0.0
CHLOROFORM	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.82 U	0.82 U	0.82 U	1.0 U	0.0
CARBON TETRACHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	1.0 U	0.0
BENZENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.7 U	0.7 U	0.7 U	0.7 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	0.0
1 2-DICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	0.0
TRICHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	2 U	0.67	1.9	0.73	45	1 U	64	0.46 U	0.46 U	0.46 U	0.46 U	1.0 U	5.6
1 2-DICHLOROPROPANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	1.0 U	0.0
BROMODICHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	0.0
MIBK	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	5.0 U	0.0
TOLUENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.32	0.0
TRANS-1 3-DICHLOROPROPENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	0.0
TETRACHLOROETHENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.0 U	0.0
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0 U	0.0
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	1.0 U	0.0
ETHYLBENZENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	1.0 U	0.0
P-XYLENE/M-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	2.0 U	0.0
O-XYLENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	1.0 U	0.0
STYRENE	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	1.0 U	0.0
BROMOFORM	0.5 U	0.5 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.5 U	1 U	0.5 U	0.5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997 and April 1998, October 2011, October 2013 and October 2015.

WELL NUMBER B-14(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
VINYL CHLORIDE	115	119	118	110	109	131	350	140	120	120	120	120	130	110	140	100	130	76	140
CHLOROETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
BROMOMETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
1 1-DICHLOROETHENE	8	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	3	25 U	2	5 U	25 U	1 U
ACETONE	50 U	250 U	250 U	50 U	250 U	250 U	500 U	250 U	125 U	125 U	120 U	120 U	50 U	50 U	120 U	25 U	50 U	130 U	10 U
CARBON DISULFIDE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	400
METHYLENE CHLORIDE	54	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	3	25 U	5 U	5 U	25 U	200
TRANS-1 2-DICHLOROETHENE	7	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	5	2 U	25 U	2	5 U	25 U	3
1 1-DICHLOROETHANE	26	25 U	25 U	15	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	17	16	25 U	9	9	25 U	12
CIS-1 2-DICHLOROETHENE	778	765	702	700	716	681	1,400	680	620	740	600	590	640	600	710	380	390	320	470
METHYL ETHYL KETONE	50 U	250 U	250 U	50 U	250 U	250 U	500 U	250 U	125 U	125 U	120 U	120 U	50 U	50 U	120 U	25 U	50 U	130 U	10 U
CHLOROFORM	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
1 1 1-TRICHLOROETHANE	125	25 U	100	73	59	101	170	57	56	89	70	65	73	63	79	33	32	26	49
CARBON TETRACHLORIDE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	24
BENZENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	4 U	4 U	0.7 U
1 2-DICHLOROETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
TRICHLOROETHENE	78	58	25 U	10	25 U	25 U	50 U	50 U	25 U	25 U	26	25 U	7	5	25 U	3	5	25 U	200
1 2-DICHLOROPROPANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
BROMODICHLOROMETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
MIBK	50 U	250 U	250 U	50 U	250 U	250 U	500 U	250 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	50 U	50 U	10 U
TOLUENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
1 1 2-TRICHLOROETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
TETRACHLOROETHENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
2-HEXANONE	50 U	250 U	250 U	50 U	250 U	250 U	500 U	250 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	50 U	50 U	10 U
DIBROMOCHLOROMETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
CHLOROBENZENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
ETHYLBENZENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
P-XYLENE/M-XYLENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
O-XYLENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
STYRENE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
BROMOFORM	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	25 U	25 U	5 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	2.5 U	2 U	25 U	5 U	5 U	25 U	1 U

This well was not sampled on the following dates: April, July, and October 1993; January 1994; April 1998.

WELL NUMBER B-14(1)
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	3.5 U	1.8 U	1.4 U	2 U	1.0 U	0.0
VINYL CHLORIDE	310	300	240	430	110	74	210	98	98	340	290	330	220	220	180	169.9
CHLOROETHANE	200 U	100 U	50 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	3.2 U	1.6 U	1.3 U	2 U	1.0 U	0.0
BROMOMETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	6.9 U	3.5 U	2.8 U	2 U	1.0 U	0.0
1 1-DICHLOROETHENE	100 U	100 U	50 U	7.0	4	1.3	1.3	0.86	0.29 U	14 U	5.0	11.0	3.0	2	1.3	1.4
ACETONE	1,000 U	500 U	250 U	4.9	5 U	5 U	5 U	1.3 U	3.0 U	3 U	30 U	15 U	12 U	10 U	1.6	0.2
CARBON DISULFIDE	100 U	100 U	50 U	1 U	1 U	7	0.79	0.77	1.0	4.1	1.9 U	0.95 U	0.76 U	4.7	0.71	12.0
METHYLENE CHLORIDE	100 U	1,100	50 U	0.48	6 U	1 U	1 U	1.5	0.44 U	0.44 U	4.4	2.2 U	1.8 U	2 U	1.0 U	39.0
TRANS-1 2-DICHLOROETHENE	100 U	100 U	50 U	4.8	2.6	1.4	1.7	1.2	0.98	2.3	9.0 U	4.5 U	3.6 U	2.1	1.8	1.0
1 1-DICHLOROETHANE	150	53	24	28	14	4.8	5.2	4.2	2.5	17	44	39	25	25	20	16.0
CIS-1 2-DICHLOROETHENE	3,500	2,800	1,200	1,200	700	340	300	170	140	760	530	280	220	170	170	713.2
METHYL ETHYL KETONE	1,000 U	500 U	250 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	13 U	6.6 U	5.3 U	10 U	5.0 U	0.0
CHLOROFORM	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	3.4 U	1.7 U	1.4 u	2 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	970	240	110	120	49	11	11	6.7	2.6	140	300	210	120	110	81	108.6
CARBON TETRACHLORIDE	300 U	100 U	50 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	2.7 U	1.4 U	1.1 U	2 U	1.0 U	0.7
BENZENE	70 U	100 U	250 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	4.1 U	2.1 U	1.6 U	2 U	1.0 U	0.0
1 2-DICHLOROETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	2.1 U	1.1 U	0.84 U	2 U	1.0 U	0.0
TRICHLOROETHENE	610	320	16	37	26	1.4	1.7	4.5	1.5	4.5	9.0	2.8	2.0	2.2	1.8	40.9
1 2-DICHLOROPROPANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	7.2 U	3.6 U	2.9 U	2 U	1.0 U	0.0
BROMODICHLOROMETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	3.9 U	2.0 U	1.6 U	2 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	3.6 U	1.8 U	1.4 U	2 U	1.0 U	0.0
MIBK	1,000 U	500 U	250 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	21 U	11 U	8.4 U	10 U	5.0 U	0.0
TOLUENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	5.1 U	2.6 U	2.0 U	2 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	3.7 U	1.9 U	1.5 U	2 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	2.3 U	1.2 U	0.92 U	2 U	1.0 U	0.0
TETRACHLOROETHENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	3.6 U	1.8 U	1.4 U	2 U	1.0 U	0.0
2-HEXANONE	1,000 U	500 U	250 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	12 U	6.2 U	5.0 U	10 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	3.2 U	1.6 U	1.3 U	2 U	1.0 U	0.0
CHLOROBENZENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	7.5 U	3.8 U	3.0 U	2 U	1.0 U	0.0
ETHYLBENZENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	7.4 U	3.7 U	3.0 U	2 U	1.0 U	0.0
P-XYLENE/M-XYLENE	100 U	300 U	150 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66	6.6 U	3.3 U	2.6 U	6 U	2.0 U	0.0
O-XYLENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	7.6 U	3.8 U	3.0 U	2 U	1.0 U	0.0
STYRENE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	7.3 U	3.7 U	2.9 U	2 U	1.0 U	0.0
BROMOFORM	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	2.6 U	1.3 U	1.0 U	2 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	100 U	100 U	50 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	2.1 U	1.1 U	0.84 U	2 U	1.0 U	0.0

This well was not sampled on the following dates: April, July, and October 1993; January 1994; April 1998.

WELL NUMBER DW-9
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	1.4 U	0.70 U	1 U	1.0 U	0.0
VINYL CHLORIDE	46	250	140	190	150	130	200 U	10 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.24 U	0.90 U	0.9 U	0.90 U	3.6 U	1.8 U	2.7	2.5	38.0
CHLOROETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	200 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 U	0.64 U	1 U	1.0 U	0.0
BROMOMETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 U	0.69 U	0.69 U	0.69 U	2.8 U	1.4 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	5 U	50 U	120 U	120 U	21	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1.4	1 U	0.29 U	0.29 U	0.29 U	0.99	1.2 U	2.1	1 U	12	1.6
ACETONE	50 U	250 U	620 U	620 U	100 U	2,500 U	2,500 U	130 U	10 U	1,000 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	3.0 U	3 U	3.0 U	12 U	6.0 U	5 U	5.0 U	0.0
CARBON DISULFIDE	5 U	50 U	120 U	120 U	15	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.38 U	1 U	1.0 U	0.6
METHYLENE CHLORIDE	56	130	2,500	720	6,300	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1.6 U	0.51	24	0.44 U	0.44 U	0.44 U	0.44 U	1.8 U	0.88 U	1 U	1.0 U	405.4
TRANS-1 2-DICHLOROETHENE	6	50 U	120 U	120 U	15	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	0.72	1 U	0.42 U	0.90 U	0.9 U	1.6	3.6 U	1.8 U	1 U	8.6	1.3
1 1-DICHLOROETHANE	5 U	50 U	120 U	120 U	28	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1.7	1 U	0.38 U	0.38 U	0.38 U	2.2	1.5 U	2.5	0.29	13	2.0
CIS-1 2-DICHLOROETHENE	703	2,800	3,200	2,600	3,600	4,200	3,800	250	49	990	9.5	4	3.8	8.4	180	20	3.6	41	5.8	220	3.2 U	130	1 U	1,100	996.6
METHYL ETHYL KETONE	50 U	250 U	620 U	620 U	100 U	2,500 U	2,500 U	130 U	10 U	1,000 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	5.3 U	2.6 U	5 U	5.0 U	0.0
CHLOROFORM	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	3.7	0.39	1 U	1 U	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	1.4 U	0.68 U	1 U	3	0.3
1 1 1-TRICHLOROETHANE	5 U	65	120 U	130	290	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	3.5	1 U	0.26 U	0.82 U	0.82 U	7.4	3.3 U	8.6	1 U	44	22.9
CARBON TETRACHLORIDE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	300 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U	0.54 U	1 U	1.0 U	0.0
BENZENE	5 U	50 U	120 U	120 U	7 U	500 U	70 U	4 U	0.7 U	70 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1.6 U	0.82 U	1 U	0.85	0.0
1 2-DICHLOROETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U	0.42 U	1 U	1.0 U	0.0
TRICHLOROETHENE	1,400	2,000	1,600	1,100	4,500	340	500 U	240	100	550	42	19	8.4	30	68	7.6	9.7	21	5.1	190	2.3	150	36	2,400	617.5
1 2-DICHLOROPROPANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.72 U	0.72 U	0.72 U	2.9 U	1.4 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1.2	1 U	1 U	1 U	1 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	1.6 U	0.78 U	0.87	1.0 U	0.1
CIS-1 3-DICHLOROPROPENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.4 U	0.72 U	1 U	1.0 U	0.0
MIBK	50 U	250 U	250 U	250 U	100 U	1,000 U	1,000 U	50 U	10 U	1,000 U	5 U	5 U	5 U	5 U	5 U	5 U	0.91 U	2.1 U	2.1 U	2.1 U	8.4 U	4.2 U	5 U	5.0 U	0.0
TOLUENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	2.0 U	1.0 U	1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	1.5 U	0.74 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U	0.46 U	1 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1.4 U	0.72 U	1 U	1.0 U	0.0
2-HEXANONE	50 U	250 U	250 U	250 U	100 U	1,000 U	1,000 U	50 U	10 U	1,000 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2 U	1.2 U	1.2 U	1.2 U	5.0 U	2.5 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 U	0.64 U	1 U	1.0 U	0.0
CHLOROBENZENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 U	0.75 U	0.75 U	0.75 U	3.0 U	1.5 U	1 U	1.0 U	0.0
ETHYLBENZENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.74 U	0.74 U	0.74 U	3.0 U	1.5 U	1 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	3 U	3 U	2 U	2 U	2 U	2 U	0.66 U	0.66 U	0.66 U	0.66 U	2.6 U	1.3 U	2 U	2.0 U	0.0
O-XYLENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 U	0.76 U	0.76 U	0.76 U	3.0 U	1.5 U	1 U	1.0 U	0.0
STYRENE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.18 U	0.73 U	0.73 U	0.73 U	2.9 U	1.5 U	1 U	1.0 U	0.0
BROMOFORM	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	0.52 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	50 U	120 U	120 U	10 U	500 U	500 U	25 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U	0.42 U	1 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997.

WELL NUMBER DW-10
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-14	Oct-16	AVG
CHLOROMETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	6.9 U	0.35 U	0.35 U	0.35 U	0.35 U	7.0 U	10 U	10 U	0.0
VINYL CHLORIDE	136	1,250 U	1,200 U	1,000 U	200 U	200 U	200 U	100 U	64	49	200 U	100 U	71	43	16	49	190	210	0.90 U	160	78	140	110	57.2
CHLOROETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	40 U	200 U	100 U	1 U	20 U	10 U	6.5 U	0.32 U	0.32 U	0.32 U	0.32 U	6.4 U	10 U	10 U	0.0
BROMOMETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	5.6 U	0.69 U	0.69 U	0.69 U	0.69 U	14 U	10 U	10 U	0.0
1 1-DICHLOROETHENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	4	20 U	200 U	100 U	2.4	20 U	10 U	5.9 U	4.6	18	0.2 U	3.6	5.8 U	10 U	5.9	1.7
ACETONE	50 U	6,250 U	6,200 U	5,000 U	2,000 U	2,000 U	2,500 U	1,300 U	10 U	200 U	1,000 U	500 U	5 U	100 U	50 U	27 U	3.0 U	3.0 U	3.0 U	3.0 U	60 U	50 U	50 U	0.0
CARBON DISULFIDE	5 U	1,250 U	1,200 U	1,000 U	210	200 U	500 U	250 U	1	20 U	200 U	100 U	1 U	20 U	10 U	3.9 U	0.63	0.19 U	0.19 U	0.67	3.8 U	10 U	10 U	9.2
METHYLENE CHLORIDE	27,400	45,000	14,000	19,000	15,000	17,000	16,000	7,300	19,000	2,800	4,300	2,700	2,300	930	180	990	1,700	1,400	1.4	1,700	960	1,500	2,300	8,846.1
TRANS-1 2-DICHLOROETHENE	16	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	6	20 U	200 U	100 U	2.9	20 U	10 U	8.4 U	5.4	2.8	0.90 U	3.0	18 U	3.5	3.8	1.9
1 1-DICHLOROETHANE	17	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	8	20 U	200 U	100 U	5.6	9.8	10 U	7.7 U	12	19	0.38 U	11	7.6	14	12	5.0
CIS-1 2-DICHLOROETHENE	2,150	3,300	1,200 U	1,000 U	610	1,400	670	1,300	710	600	220	520	350	410	500	300	950	460	36	550	230	1,000	960	749.0
METHYL ETHYL KETONE	50 U	6,250 U	6,200 U	5,000 U	2,000 U	2,000 U	2,500 U	1,300 U	10 U	200 U	1,000 U	500 U	5 U	100 U	50 U	26 U	1.3 U	1.3 U	1.3 U	1.3 U	26 U	50 U	50 U	0.0
CHLOROFORM	7	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	6	20 U	200 U	100 U	0.84	20 U	10 U	6.7 U	1.2	0.69	3.4	1.0	6.8 U	10 U	3.4	1.0
1 1 1-TRICHLOROETHANE	150	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	58	51	200 U	100 U	10	31	27	29	56	270	0.99	9.2	16 U	60	57	35.2
CARBON TETRACHLORIDE	22	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	27	60 U	200 U	100 U	1 U	20 U	10 U	5.3 U	0.27 U	0.27 U	0.27 U	0.27 U	5.4 U	10 U	10 U	2.1
BENZENE	5 U	1,250 U	1,200 U	1,000 U	140 U	140 U	70 U	35 U	0.7 U	14 U	200 U	100 U	1 U	20 U	10 U	8.2 U	0.41 U	0.41 U	0.41 U	0.41 U	8.2 U	10 U	10 U	0.0
1 2-DICHLOROETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	4.3 U	0.21 U	0.21 U	0.21 U	0.21 U	4.2 U	10 U	10 U	0.0
TRICHLOROETHENE	3,890	4,100	1,200 U	1,300	950	1,500	500 U	930	1,100	300	160	240	150	52	78	43	90	42	51	110	30	610	510	705.9
1 2-DICHLOROPROPANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	6.5 U	0.72 U	0.72 U	0.72 U	0.72 U	14 U	10 U	10 U	0.0
BROMODICHLOROMETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	7.7 U	0.39 U	0.39 U	0.41	0.39 U	7.8 U	10 U	10 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	7.1 U	0.36 U	0.36 U	0.36 U	0.36 U	7.2 U	10 U	10 U	0.0
MIBK	50 U	6,250 U	2,500 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	10 U	200 U	1,000 U	500 U	5 U	100 U	50 U	18 U	2.1 U	2.1 U	2.1 U	2.1 U	42 U	50 U	50 U	0.0
TOLUENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	2	20 U	200 U	100 U	1 U	20 U	10 U	10 U	0.51	0.51 U	0.51 U	0.51 U	10 U	10 U	10 U	0.1
TRANS-1 3-DICHLOROPROPENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	7.4 U	0.37 U	0.37 U	0.37 U	0.37 U	7.4 U	10 U	10 U	0.0
1 1 2-TRICHLOROETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	4.6 U	0.23 U	0.23 U	0.23 U	0.23 U	4.6 U	10 U	10 U	0.0
TETRACHLOROETHENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	7.3 U	0.36 U	0.36 U	0.36 U	0.36 U	7.2 U	10 U	10 U	0.0
2-HEXANONE	50 U	6,250 U	2,500 U	2,000 U	2,000 U	2,000 U	1,000 U	500 U	10 U	200 U	1,000 U	500 U	5 U	100 U	50 U	25 U	1.2 U	1.2 U	1.2 U	1.2 U	25 U	50 U	50 U	0.0
DIBROMOCHLOROMETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	6.4 U	0.32 U	0.32 U	0.32 U	0.32 U	6.4 U	10 U	10 U	0.0
CHLOROBENZENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	6.3 U	0.75 U	0.75 U	0.75 U	0.75 U	15 U	10 U	10 U	0.0
ETHYLBENZENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	3.7 U	0.74 U	0.74 U	0.74 U	0.74 U	15 U	10 U	10 U	0.0
P-XYLENE/M-XYLENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	600 U	300 U	2 U	60 U	30 U	13 U	0.66 U	0.66 U	0.66 U	0.66 U	13 U	30 U	20 U	0.0
O-XYLENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	7.2 U	0.76 U	0.76 U	0.76 U	0.76 U	15 U	10 U	10 U	0.0
STYRENE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	3.7 U	0.73 U	0.73 U	0.73 U	0.73 U	15 U	10 U	10 U	0.0
BROMOFORM	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	5.1 U	0.26 U	0.26 U	0.26 U	0.26 U	5.2 U	10 U	10 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	1,250 U	1,200 U	1,000 U	200 U	200 U	500 U	250 U	1 U	20 U	200 U	100 U	1 U	20 U	10 U	4.3 U	0.21 U	0.21 U	0.21 U	0.21 U	4.2 U	10 U	10 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and October 2005.

WELL NUMBER DW-11
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	10 U	10 U	0.0
VINYL CHLORIDE	123	210	500 U	500 U	150	230	390	220	220	240	340	430	580	360	520	580	1.9	0.9 U	0.90 U	710	520	420	450	291.1
CHLOROETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	2 U	500 U	400 U	0.46	100 U	80 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	10 U	10 U	0.0
BROMOMETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.28 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	10 U	10 U	0.0
1 1-DICHLOROETHENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	18	34	500 U	400 U	36	100 U	80 U	13	11	1.2	0.29 U	37	20	17	10 U	7.6
ACETONE	250 U	250 U	2,500 U	2,500 U	1,000 U	1,000 U	1,000 U	2,500 U	10 U	10 U	2,500 U	2,000 U	5 U	500 U	400 U	1.3 U	3.0 U	3 U	3.0 U	3.0 U	3.0 U	50 U	50 U	0.0
CARBON DISULFIDE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	2	4	500 U	400 U	1 U	100 U	80 U	0.61	0.19 U	0.19 U	0.19 U	2.5	0.19 U	6	3.4	0.8
METHYLENE CHLORIDE	1,670	6,500	2,700	3,800	5,400	5,800	10,000	6,200	3,600	8,800	17,000	9,300	6,800	5,900	7,900	2,700	0.44 U	0.44 U	0.44 U	2,800	1,700	780	10 U	4,754.3
TRANS-1 2-DICHLOROETHENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	28	20	500 U	400 U	22	100 U	80 U	7.2	4.5	0.9 U	0.90 U	8.7	7.9	8.3	5.9	4.9
1 1-DICHLOROETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	35	62	500 U	400 U	45	100 U	80 U	19	9.3	1.0	0.38 U	51	37	33	25	13.8
CIS-1 2-DICHLOROETHENE	2,360	2,100	3,200	3,300	2,800	4,000	5,800	4,100	2,100	2,900	5,700	7,000	6,800	3,300	3,300	2,800	1,700	87	19	4,200	3,400	3,900	1,500	3,320.3
METHYL ETHYL KETONE	250 U	250 U	2,500 U	2,500 U	1,000 U	70 U	1,000 U	2,500 U	10 U	10 U	2,500 U	2,000 U	5 U	500 U	400 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	50 U	50 U	0.0
CHLOROFORM	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	6	500 U	400 U	2.5	100 U	80 U	0.98	1.4	1.9	0.34 U	1.2	1.3	10 U	10 U	0.7
1 1 1-TRICHLOROETHANE	249	180	500 U	1,000	620	760	600	670	1,100	920	740	580	390	140	180	84	83	3.9	1.1	270	240	160	110	394.8
CARBON TETRACHLORIDE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	260	160	500 U	400 U	1 U	100 U	80 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	10 U	10 U	18.3
BENZENE	25 U	50 U	500 U	500 U	70 U	70 U	70 U	70 U	0.7 U	1	500 U	400 U	0.58	100 U	400 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	10 U	10 U	0.1
1 2-DICHLOROETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	10 U	10 U	0.0
TRICHLOROETHENE	10,500	12,000	11,000	15,000	15,000	14,000	15,000	12,000	5,500	9,700	14,000	9,400	4,900	2,000	2,600	1,300	900	54	7.8	1,900	1,400	1,100	14	6,925.0
1 2-DICHLOROPROPANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	36	500 U	400 U	1 U	100 U	80 U	0.32 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	10 U	10 U	1.6
BROMODICHLOROMETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.39 U	0.39 U	0.77 U	0.39 U	0.39 U	0.39 U	10 U	10 U	0.0
CIS-1 3-DICHLOROPROPENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	10 U	10 U	0.0
MIBK	250 U	250 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	10 U	10 U	2,500 U	2,000 U	5 U	500 U	400 U	0.91 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	50 U	50 U	0.0
TOLUENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	10	12	500 U	400 U	5.2	100 U	80 U	1.7	0.51 U	0.51 U	0.51 U	1.7	1.3	10 U	10 U	1.4
TRANS-1 3-DICHLOROPROPENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	10 U	10 U	0.0
1 1 2-TRICHLOROETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	10 U	10 U	0.0
TETRACHLOROETHENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	14	17	500 U	400 U	5.7	100 U	80 U	0.92	0.36 U	0.36 U	0.36 U	1.8	1.8	10 U	10 U	1.8
2-HEXANONE	250 U	250 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	10 U	10 U	2,500 U	2,000 U	5 U	500 U	400 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	50 U	50 U	0.0
DIBROMOCHLOROMETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	10 U	10 U	0.0
CHLOROBENZENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1.5	100 U	80 U	0.32 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	10 U	10 U	0.1
ETHYLBENZENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	3	2	500 U	400 U	3.2	100 U	80 U	0.47	0.74 U	0.74 U	0.74 U	0.9	0.75	10 U	10 U	0.4
P-XYLENE/M-XYLENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	3	4	1,500 U	1,200 U	2.2	300 U	240 U	0.71	0.66 U	0.66 U	0.66 U	1.1	0.92	30 U	20 U	0.5
O-XYLENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	2	500 U	400 U	1 U	100 U	80 U	0.57	0.76 U	0.76 U	0.76 U	1.2	1.0	10 U	10 U	0.2
STYRENE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.18 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	10 U	10 U	0.0
BROMOFORM	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	10 U	10 U	0.0
1 1 2 2-TETRACHLOROETHANE	25 U	50 U	500 U	500 U	100 U	100 U	100 U	500 U	1 U	1 U	500 U	400 U	1 U	100 U	80 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	10 U	10 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and October 2005.

WELL NUMBER DW-12
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Jan-95	Feb-96	Oct-96	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.35 U	0.35 U	0.35 U	35 U	18 U	18 U	1 U	1.0 U	0.0
VINYL CHLORIDE	15	25 U	46	500 U	120	420	260	200 U	42	500 U	200 U	500 U	15	2 U	1.9	10	2.5	530	620	510	370	74	180	139.8
CHLOROETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	1,000 U	200 U	500 U	1 U	2 U	1 U	0.32 U	0.32 U	0.32 U	32 U	16 U	16 U	1 U	1.0 U	0.0
BROMOMETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	0.88	2 U	1 U	0.28 U	0.69 U	0.69 U	69 U	35 U	35 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	1	1.9	2.7	3.2	29	29 U	15 U	15 U	2.8	5.2	2.0
ACETONE	50 U	125 U	120 U	2,500 U	1,100	2,500 U	1,000 U	2,500 U	10 U	5,000 U	1,000 U	2,500 U	5 U	10 U	5 U	1.3 U	3.0 U	3 U	300 U	150 U	150 U	5 U	5.0 U	47.8
CARBON DISULFIDE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.19 U	0.19 U	0.46	19 U	9.5 U	9.5 U	1 U	0.9	0.1
METHYLENE CHLORIDE	159	52	710	1,500	530	270	610	500 U	200	500 U	200 U	500 U	370	2 U	1 U	0.55	0.44 U	6.1	110	1,900	140	84	1.0 U	288.8
TRANS-1 2-DICHLOROETHENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	6	500 U	200 U	500 U	3.8	1.7	2.6	2.3	2.2	12	90 U	45 U	45 U	1.1	15	2.0
1 1-DICHLOROETHANE	7	25 U	25 U	500 U	100 U	500 U	100 U	500 U	5	500 U	200 U	500 U	3.3	6.9	11	11	8.7	27	40	19 U	27	8.6	13	7.3
CIS-1 2-DICHLOROETHENE	592	580	3,600	5,300	5,800	6,600	11,000	8,600	730	2,000	1,300	14,000	530	140	240	280	180	7,300	8,400	3,000	2,800	220	1,700	3,691.0
METHYL ETHYL KETONE	50 U	125 U	120 U	2,500 U	1,000 U	2,500 U	1,000 U	2,500 U	10 U	5,000 U	1,000 U	2,500 U	5 U	10 U	5 U	1.3 U	1.3 U	1.3 U	130 U	66 U	66 U	5 U	5.0 U	0.0
CHLOROFORM	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	3	500 U	200 U	500 U	1 U	1.2	0.78	1.9	1.5	1.2	34 U	17 U	17 U	0.31	1.1	0.5
1 1 1-TRICHLOROETHANE	35	27	68	500 U	100 U	500 U	100	500 U	13	500 U	200 U	500 U	14	20	46	52	38	160	220	190	170	28	34	52.8
CARBON TETRACHLORIDE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	17	1,500 U	200 U	500 U	250	2 U	1 U	0.27 U	0.27 U	0.27 U	27 U	14 U	14 U	1 U	1.0 U	11.6
BENZENE	5 U	25 U	25 U	500 U	70 U	500 U	70 U	70 U	0.7 U	350 U	200 U	500 U	1 U	2 U	1 U	0.41 U	0.41 U	0.41 U	41 U	21 U	21 U	1 U	1.0 U	0.0
1 2-DICHLOROETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.21 U	0.21 U	0.21 U	21 U	11 U	11 U	1 U	1.0 U	0.0
TRICHLOROETHENE	639	130	9,300	9,600	7,300	6,100	11,000	4,000	1,500	13,000	7,000	160	1 U	18	38	25	51	1,400	980	1,100	550	140	83	3,222.3
1 2-DICHLOROPROPANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.32 U	0.72 U	0.72 U	72 U	36 U	36 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.39 U	0.39 U	0.39 U	39 U	20 U	20 U	1 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.36 U	0.36 U	0.36 U	36 U	18 U	18 U	1 U	1.0 U	0.0
MIBK	50 U	125 U	50 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	10 U	5,000 U	1,000 U	2,500 U	5 U	10 U	5 U	0.91 U	2.1 U	2.1	210 U	110 U	110 U	5 U	5.0 U	0.1
TOLUENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.51 U	0.51 U	0.82 U	51 U	26 U	26 U	1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.37 U	0.37 U	0.37 U	37 U	19 U	19 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.23 U	0.23 U	0.23 U	23 U	12 U	12 U	1 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.36 U	0.36 U	0.59	36 U	18 U	18 U	1 U	1.0 U	0.0
2-HEXANONE	50 U	125 U	50 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	10 U	5,000 U	1,000 U	2,500 U	5 U	10 U	5 U	1.2 U	1.2 U	1.2 U	120 U	62 U	62 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.32 U	0.32 U	0.32 U	32 U	16 U	16 U	1 U	1.0 U	0.0
CHLOROBENZENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.32 U	0.75 U	0.75 U	75 U	38 U	38 U	1 U	1.0 U	0.0
ETHYLBENZENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.18 U	0.74 U	0.74 U	74 U	37 U	37 U	1 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	600 U	1,500 U	2 U	6 U	2 U	0.66 U	0.66 U	0.66 U	66 U	33 U	33 U	2 U	2.0 U	0.0
O-XYLENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.36 U	0.76 U	0.76 U	76 U	38 U	38 U	1 U	1.0 U	0.0
STYRENE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.18 U	0.73 U	0.73 U	73 U	37 U	37 U	1 U	1.0 U	0.0
BROMOFORM	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.26 U	0.26 U	0.26 U	26 U	13 U	13 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	25 U	25 U	500 U	100 U	500 U	100 U	500 U	1 U	500 U	200 U	500 U	1 U	2 U	1 U	0.21 U	0.21 U	0.21 U	21 U	11 U	11 U	1 U	1.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January, April, July and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and October 2005.

WELL NUMBER EW-2
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Apr-04	Oct-04	Oct-05	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Apr-14	Oct-14	May-15	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.35 U	0.35 U	0.35 U	1.8 U	1.8 U	1 U	1.8 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
VINYL CHLORIDE	100	83	500 U	500 U	250 U	250 U	125 U	120 U	120 U	170	190	83	110	100	62	18	14	26	1 U	56	4.1	0.90 U	0.9 U	16	6.7	1.8	57	0.83	1.0 U	180	3.3	200	46.3
CHLOROETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	40 U	50 U	1 U	10 U	1 U	1 U	40 U	0.32 U	0.32 U	0.32 U	1.6 U	1.6 U	1 U	1.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMOMETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.28 U	0.69 U	0.69 U	3.5 U	3.5 U	1 U	3.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1-DICHLOROETHENE	33	12	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	4	20 U	50 U	0.62	10 U	1.6	1 U	40 U	1.5	1.2	3.0	1.9	1.5 U	1 U	1.5 U	1.0 U	1.0 U	2.3	1.0 U	1.0 U	1.9
ACETONE	50 U	50 U	5,000 U	5,000 U	2,500 U	2,500 U	625 U	620 U	620 U	630 U	630 U	630 U	10 U	200 U	250 U	5 U	50 U	5 U	2,900	200 U	1.3 U	3.0 U	3 U	15	15 U	5 U	15 U	5.0 U	2.3	5.0 U	5.0 U	5.0 U	91.2
CARBON DISULFIDE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.19 U	0.19 U	0.19 U	0.95 U	0.95 U	1 U	0.95 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
METHYLENE CHLORIDE	21	6 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.44 U	0.44 U	0.44 U	2.2 U	2.2 U	1 U	2.2 U	1.0 U	1.0 U	1.0 U	3.5	1.0 U	0.8
TRANS-1 2-DICHLOROETHENE	16	12	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	13	20 U	50 U	3.6	5.5	4.5	3	40 U	4.0	3.0	5.8	4.5 U	4.5 U	1.3	4.5 U	1.4	1.2	3.7	0.96	2.9	2.5
1 1-DICHLOROETHANE	8	11	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	5	20 U	50 U	1.6	4.3	4.3	2	40 U	4.7	2.9	6.5	4.7	5.1	3.6	5.2	3.4	4.0	10	3	13	3.2
CIS-1 2-DICHLOROETHENE	5,460	4,760	5,000	4,710	5,750	1,740	2,100	1,900	2,200	2,400	2,100	710	1,700	2,200	1,600	390	930	880	370	2,300	920	550	1,000	300	230	16	370	9.6	24	660	13	250	1,673.2
METHYL ETHYL KETONE	50 U	50 U	5,000 U	5,000 U	2,500 U	2,500 U	625 U	620 U	620 U	630 U	630 U	630 U	10 U	200 U	250 U	5 U	50 U	5 U	56,000	200 U	1.3 U	1.3 U	1.3 U	6.6 U	6.6 U	5 U	6.6 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1,750.0
CHLOROFORM	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	2	20 U	50 U	1.5	4.6	1.9	1	40 U	1.5	2.2	1.8	1.7 U	1.7 U	0.57	1.7 U	1.2	1.2	0.63	0.46	0.65	0.7
1 1 1-TRICHLOROETHANE	59	57	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	10	56	50 U	3.3	12	13	7.1	40 U	19	11	57	9.5	6.3	4.0	6.6	3.2	3.1	14	2.7	21	11.7
CARBON TETRACHLORIDE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	16	60 U	50 U	1 U	10 U	1 U	1 U	40 U	0.27 U	0.27 U	0.27 U	1.4 U	1.4 U	1 U	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5
BENZENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	18 U	18 U	0.7 U	14 U	250 U	1 U	10 U	1 U	1 U	200 U	0.41 U	0.41 U	0.41 U	2.1 U	2.1 U	1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 2-DICHLOROETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.21 U	0.21 U	0.21 U	1.1 U	1.1 U	1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TRICHLOROETHENE	1,700	1,970	1,390	2,540	4,310	2,010	850	330	120 U	50	130 U	130 U	110	190	150	24	88	68	14	72	28	19	27	8.4	9.1	4.1	6.2	4.1	5.1	10	3.2	7.7	499.9
1 2-DICHLOROPROPANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.32 U	0.72 U	0.72 U	3.6 U	3.6 U	1 U	3.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.39 U	0.39 U	0.39 U	2.0 U	2.0 U	1 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.36 U	0.36 U	0.36 U	1.8 U	1.8 U	1 U	1.8 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
MIBK	50 U	50 U	5,000 U	5,000 U	2,500 U	2,500 U	625 U	250 U	250 U	250 U	250 U	250 U	10 U	200 U	250 U	5 U	50 U	5 U	5 U	200 U	0.91 U	2.1 U	2.1 U	11 U	11 U	5 U	11 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
TOLUENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.51 U	0.51 U	0.51 U	2.6 U	2.6 U	1 U	2.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.37 U	0.37 U	0.37 U	1.9 U	1.9 U	1 U	1.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.23 U	0.23 U	0.23 U	1.2 U	1.2 U	1 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.36 U	0.36 U	0.36 U	1.8 U	1.8 U	1 U	1.8 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
2-HEXANONE	50 U	50 U	5,000 U	5,000 U	2,500 U	2,500 U	625 U	250 U	250 U	250 U	250 U	250 U	10 U	200 U	250 U	5 U	50 U	5 U	5 U	200 U	1.2 U	1.2 U	1.2 U	6.2 U	6.2 U	5 U	6.2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.32 U	0.32 U	0.32 U	1.6 U	1.6 U	1 U	1.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
CHLOROBENZENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.32 U	0.75 U	0.75 U	3.8 U	3.8 U	1 U	3.8 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
ETHYLBENZENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.18 U	0.74 U	0.74 U	3.7 U	3.7 U	1 U	3.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	150 U	3 U	30 U	2 U	2 U	120 U	0.66 U	0.66 U	0.66 U	3.3 U	3.3 U	2 U	3.3 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0
O-XYLENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.36 U	0.76 U	0.76 U	3.8 U	3.8 U	1 U	3.8 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
STYRENE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.18 U	0.73 U	0.73 U	3.7 U	3.7 U	1 U	3.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMOFORM	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.26 U	0.26 U	0.26 U	1.3 U	1.3 U	1 U	1.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	500 U	500 U	250 U	250 U	125 U	120 U	120 U	130 U	130 U	130 U	1 U	20 U	50 U	1 U	10 U	1 U	1 U	40 U	0.21 U	0.21 U	0.21 U	1.1 U	1.1 U	1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
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This well was not sampled on the following dates: April and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997, April 1998 and 2006.

WELL NUMBER EW-3
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Apr-04	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Apr-14	Oct-14	May-15	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.35 U	0.35 U	0.35 U	18 U	18 U	50 U	18 U	10 U	10 U	10 U	10 U	10 U	0.0
VINYL CHLORIDE	28	35	113	58	66	76	150	120 U	200	480	480	450	840	1,100	760	580	330	910	54	790	3,500	720	830	860	800	1,200	990	910	1,200	960	800	660	720	636.8
CHLOROETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	200 U	250 U	1 U	50 U	0.54	1 U	20 U	80 U	0.32 U	0.32 U	0.32 U	16 U	16 U	50 U	16 U	10 U	10 U	10 U	10 U	10 U	0.0
BROMOMETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.28 U	0.69 U	0.69 U	35 U	35 U	50 U	35 U	10 U	10 U	10 U	10 U	10 U	0.0
1 1-DICHLOROETHENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	11	100 U	250 U	9.8	50 U	15	2.2	12	80 U	10	8.3	8.2	15 U	15 U	50 U	15 U	5.7	6.7	10 U	10 U	10 U	2.6
ACETONE	50 U	50 U	250 U	50 U	250 U	500 U	500 U	620 U	620 U	630 U	630 U	630 U	10 U	1,000 U	1,200 U	5 U	250 U	5 U	5 U	100 U	400 U	1.3 U	3.0 U	3 U	150 U	150 U	250 U	150 U	50 U	50 U	50 U	50 U	50 U	0.0
CARBON DISULFIDE	5 U	5 U	279	6	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	0.54	1 U	20 U	56	0.19 U	0.19 U	0.19 U	9.5 U	9.5 U	50 U	9.5 U	10 U	10 U	10 U	10 U	10 U	10.0
METHYLENE CHLORIDE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	41	80 U	0.44 U	0.44 U	0.44 U	22 U	22 U	22	22 U	10 U	10 U	10 U	10 U	10 U	1.9
TRANS-1 2-DICHLOROETHENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	43	100 U	250 U	24	16	29	4.1	17	80 U	14	13	13	45 U	45 U	50 U	45 U	9.8	8.8	8.2	9.3	10	6.4
1 1-DICHLOROETHANE	5 U	5 U	25 U	5	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	10	100 U	250 U	8.7	50 U	16	4.2	14	80 U	13	11	13	19 U	19 U	50 U	19 U	12	11	14	12	13	4.6
CIS-1 2-DICHLOROETHENE	215	208	815	270	1,140	1,380	2,300	2,800	3,400	3,700	4,300	3,200	4,900	16,000	7,000	5,300	3,800	5,800	1,000	6,000	1,700	4700	3,400	3,200	2,200	2,500	2,700	2,300	1,900	1,900	1,300	2,000	1,600	3,086.1
METHYL ETHYL KETONE	50 U	50 U	250 U	50 U	250 U	500 U	500 U	620 U	620 U	630 U	630 U	630 U	10 U	1,000 U	1,200 U	5 U	250 U	5 U	5 U	100 U	400 U	1.3 U	1.3 U	1.3 U	66 U	66 U	250 U	66 U	50 U	50 U	50 U	50 U	50 U	0.0
CHLOROFORM	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1	100 U	250 U	1.9	50 U	1.9	1.1	20 U	80 U	0.78	0.99	0.93	17 U	17 U	50 U	17 U	10 U	4.3	10 U	10 U	10 U	0.4
1 1 1-TRICHLOROETHANE	5 U	5 U	25 U	8	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	14	100 U	250 U	25	20	44	11	28	80 U	22	19	28	41 U	41 U	50 U	41 U	15	14	17	17	17	8.8
CARBON TETRACHLORIDE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	17	300 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.27 U	0.27 U	0.27 U	14 U	14 U	50 U	14 U	10 U	10 U	10 U	10 U	10 U	0.5
BENZENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	18 U	18 U	18 U	0.7 U	70 U	250 U	1 U	250 U	1 U	1 U	20 U	400 U	0.41 U	0.41 U	0.41 U	21 U	21 U	250 U	21 U	10 U	10 U	10 U	10 U	10 U	0.0
1 2-DICHLOROETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.21 U	0.21 U	0.21 U	11 U	11 U	50 U	11 U	10 U	10 U	10 U	10 U	10 U	0.0
TRICHLOROETHENE	28	5 U	25 U	5 U	43	50 U	930	120 U	120 U	49	130 U	130 U	20	200 U	250 U	14	21	42	38	22	80 U	16	14	13	23 U	23 U	50 U	23 U	6.0	6.5	5.5	6.2	4.6	37.6
1 2-DICHLOROPROPANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.32 U	0.72 U	0.72 U	36 U	36 U	50 U	36 U	10 U	10 U	10 U	10 U	10 U	0.0
BROMODICHLOROMETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.39 U	0.39 U	0.39 U	20 U	20 U	50 U	20 U	10 U	10 U	10 U	10 U	10 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.36 U	0.36 U	0.36 U	18 U	18 U	50 U	18 U	10 U	10 U	10 U	10 U	10 U	0.0
MIBK	50 U	50 U	250 U	50 U	250 U	500 U	500 U	250 U	250 U	250 U	250 U	250 U	10 U	1,000 U	1,200 U	5 U	250 U	5 U	5 U	100 U	400 U	0.91 U	2.1 U	2.1 U	110 U	110 U	250 U	110 U	50 U	50 U	50 U	50 U	50 U	0.0
TOLUENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	0.44	1 U	20 U	80 U	0.51 U	0.51 U	0.51 U	26 U	26 U	50 U	26 U	10 U	10 U	10 U	10 U	10 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.37 U	0.37 U	0.37 U	19 U	19 U	50 U	19 U	10 U	10 U	10 U	10 U	10 U	0.0
1 1 2-TRICHLOROETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.23 U	0.23 U	0.23 U	12 U	12 U	50 U	12 U	10 U	10 U	10 U	10 U	10 U	0.0
TETRACHLOROETHENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.36 U	0.36 U	0.36 U	18 U	18 U	50 U	18 U	10 U	10 U	10 U	10 U	10 U	0.0
2-HEXANONE	50 U	50 U	250 U	50 U	250 U	500 U	500 U	250 U	250 U	250 U	250 U	250 U	10 U	1000 U	1,200 U	5 U	250 U	5 U	5 U	100 U	400 U	1.2 U	1.2 U	1.2 U	62 U	62 U	250 U	62 U	50 U	50 U	50 U	50 U	50 U	0.0
DIBROMOCHLOROMETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.32 U	0.32 U	0.32 U	16 U	16 U	50 U	16 U	10 U	10 U	10 U	10 U	10 U	0.0
CHLOROBENZENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.32 U	0.75 U	0.75 U	38 U	38 U	50 U	38 U	10 U	10 U	10 U	10 U	10 U	0.0
ETHYLBENZENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.18 U	0.74 U	0.74 U	37 U	37 U	50 U	37 U	10 U	10 U	10 U	10 U	10 U	0.0
P-XYLENE/M-XYLENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	750 U	3 U	150 U	2 U	2 U	60 U	240 U	0.66 U	0.66 U	0.66 U	33 U	33 U	100 U	33 U	20 U	20 U	20 U	20 U	20 U	0.0
O-XYLENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.36 U	0.76 U	0.76 U	38 U	38 U	50 U	38 U	10 U	10 U	10 U	10 U	10 U	0.0
STYRENE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.18 U	0.73 U	0.73 U	37 U	37 U	50 U	37 U	10 U	10 U	10 U	10 U	10 U	0.0
BROMOFORM	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.26 U	0.26 U	0.26 U	13 U	13 U	50 U	13 U	10 U	10 U	10 U	10 U	10 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	25 U	5 U	25 U	50 U	100 U	120 U	120 U	130 U	130 U	130 U	1 U	100 U	250 U	1 U	50 U	1 U	1 U	20 U	80 U	0.21 U	0.21 U	0.21 U	11 U	11 U	50 U	11 U	10 U	10 U	10 U	10 U	10 U	0.0
																																		4136.13

This well was not sampled on the following dates: April and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and April 1998.

WELL NUMBER EW-4
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Apr-04	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Apr-14	Oct-14	May-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.35 U	0.35 U	0.35 U	0.70 U	0.70 U	2 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
VINYL CHLORIDE	16	23	67	25	34	43	60	38	57	29	71	71	190	410	170	140	130	210	130	140	240	160	230	130	97	110	83	65	57	56	34	50	105.2
CHLOROETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	200 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.32 U	0.32 U	0.32 U	0.64 U	0.64 U	2 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMOMETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.28 U	0.69 U	0.69 U	1.4 U	1.4 U	2 U	0.69 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1.2	10 U	2.7	10 U	10 U	2.8	2.3	1.9	0.93	0.58 U	2 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U	0.4
ACETONE	50 U	50 U	50 U	50 U	50 U	250 U	125 U	120 U	120 U	10 U	10 U	130 U	10 U	1,000 U	200 U	100 U	5 U	50 U	5 U	50 U	50 U	1.3 U	3.0 U	3 U	6.0 U	6.0 U	10 U	3.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	4.7	0.19 U	0.19 U	0.19 U	0.38 U	0.38 U	2 U	0.19 U	0.53	2.4	1.0 U	0.61	0.3
METHYLENE CHLORIDE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	19	10 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	2 U	0.44 U	1.0 U	1.0 U	0.91	1.0 U	0.6
TRANS-1 2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	6	100 U	40 U	20 U	4.5	8.5	4.2	10 U	52	4.9	5.3	5.0	2.0	2.1	2 U	1.2	1.1	1.3	1.3	1.9	3.2
1 1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	3	100 U	40 U	20 U	1.8	10 U	2.7	10 U	10 U	3	3.8	4.7	1.9	1.8	1.3	0.83	1.1	1.1	0.91	1.6	0.9
CIS-1 2-DICHLOROETHENE	121	156	654	173	488	628	340	200	210	130	120	270	770	5,100	990	860	480	980	990	520	1,900	1,400	1,200	820	130	96	70	37	27	34	25	39	623.7
METHYL ETHYL KETONE	50 U	50 U	50 U	50 U	50 U	250 U	125 U	120 U	120 U	10 U	10 U	130 U	10 U	1,000 U	200 U	100 U	5 U	50 U	5 U	50 U	50 U	1.3 U	1.3 U	1.3 U	2.6 U	2.6 U	10 U	1.3 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
CHLOROFORM	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	0.47	10 U	0.51	10 U	10 U	0.34 U	0.67	0.52	0.68 U	0.68 U	2 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1
1 1 1-TRICHLOROETHANE	5 U	5 U	5	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	2	100 U	40 U	20 U	2.4	4.3	4.6	10 U	5.9	4.8	5.5	13	2.9	2.3	1.7	1.2	0.85	1.1	0.88	0.93	1.9
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	15	300 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.27 U	0.27 U	0.27 U	0.54 U	0.54 U	2 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5
BENZENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	0.7 U	0.7 U	4 U	0.7 U	70 U	200 U	20 U	1 U	10 U	1 U	10 U	10 U	0.41 U	0.41 U	0.41 U	0.82 U	0.82 U	2 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.21 U	0.21 U	0.21 U	0.42 U	0.42 U	2 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TRICHLOROETHENE	5 U	5 U	28	5 U	21	25 U	25 U	25 U	25 U	11	1	25 U	5	200 U	40 U	20 U	2	4.5	6.5	10 U	8.2	6.3	3.5	6.2	1.2	1.2	2 U	0.57	0.41	0.77	0.57	0.71	3.4
1 2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.32 U	0.72 U	0.72 U	1.4 U	1.4 U	2 U	0.72 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.39 U	0.39 U	0.39 U	0.78 U	0.78 U	2 U	0.39 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U	2 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
MIBK	50 U	50 U	50 U	50 U	50 U	250 U	125 U	50 U	50 U	10 U	10 U	50 U	10 U	1,000 U	200 U	100 U	5 U	50 U	5 U	50 U	50 U	0.91 U	2.1 U	2.1 U	4.2 U	4.2 U	10 U	2.1 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
TOLUENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.51 U	0.51 U	0.51 U	1.0 U	1.0 U	2 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.37 U	0.37 U	0.37 U	0.74 U	0.74 U	2 U	0.37 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.23 U	0.23 U	0.23 U	0.46 U	0.46 U	2 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U	2 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
2-HEXANONE	50 U	50 U	50 U	50 U	50 U	250 U	125 U	50 U	50 U	10 U	10 U	50 U	10 U	1,000 U	200 U	100 U	5 U	50 U	5 U	50 U	50 U	1.2 U	1.2 U	1.2 U	2.5 U	2.5 U	10 U	1.2 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.32 U	0.32 U	0.32 U	0.64 U	0.64 U	2 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.32 U	0.75 U	0.75 U	1.5 U	1.5 U	2 U	0.75 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.18 U	0.74 U	0.74 U	1.5 U	1.5 U	2 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	120 U	60 U	3 U	20 U	2 U	30 U	30 U	0.66 U	0.66 U	0.66 U	1.3 U	1.3 U	4 U	0.66 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0
O-XYLENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.36 U	0.76 U	0.76 U	1.5 U	1.5 U	2 U	0.76 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
STYRENE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.18 U	0.73 U	0.73 U	1.5 U	1.5 U	2 U	0.73 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMOFORM	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.26 U	0.26 U	0.26 U	0.52 U	0.52 U	2 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	25 U	1 U	1 U	25 U	1 U	100 U	40 U	20 U	1 U	10 U	1 U	10 U	10 U	0.21 U	0.21 U	0.21 U	0.42 U	0.42 U	2 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
																																	981.32

This well was not sampled on the following dates: April and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and April 1998.

WELL NUMBER EW-5
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Jan-96	Oct-96	Oct-97	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Apr-04	Oct-04
CHLOROMETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
VINYL CHLORIDE	153	85	157	250 U	45	66	83	46	48	42	48	40	130	210	230	260	260
CHLOROETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	100 U	40 U	20 U	1 U
BROMOMETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
1 1-DICHLOROETHENE	26	10	25 U	250 U	25 U	25 U	25 U	5 U	5 U	2	1	5 U	1 U	50 U	40 U	20 U	2.6
ACETONE	50 U	50 U	250 U	2500 U	250 U	250 U	125 U	25 U	25 U	10 U	10 U	25 U	10 U	500 U	200 U	100 U	5 U
CARBON DISULFIDE	5 U	5 U	797	250 U	25 U	25 U	25 U	5 U	5 U	1 U	4	5 U	8	50 U	11	20 U	1 U
METHYLENE CHLORIDE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
TRANS-1 2-DICHLOROETHENE	7	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1	1 U	5 U	1 U	50 U	40 U	20 U	3.1
1 1-DICHLOROETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1.6
CIS-1 2-DICHLOROETHENE	655	315	1,410	724	591	674	270	120	110	83	79	78	250	1,100	880	940	710
METHYL ETHYL KETONE	50 U	50 U	250 U	2500 U	250 U	250 U	125 U	73	25 U	10 U	10 U	25 U	10 U	500 U	200 U	100 U	5 U
CHLOROFORM	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	0.41
1 1 1-TRICHLOROETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	2.8
CARBON TETRACHLORIDE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	14	150 U	40 U	20 U	1 U
BENZENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	0.7 U	0.7 U	0.7 U	0.7 U	35 U	200 U	20 U	1 U
1 2-DICHLOROETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
TRICHLOROETHENE	5 U	5 U	59	250 U	25 U	25 U	25 U	5 U	5 U	1	1 U	5 U	5	100 U	40 U	20 U	3
1 2-DICHLOROPROPANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
BROMODICHLOROMETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
MIBK	50 U	50 U	250 U	2500 U	250 U	250 U	125 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	200 U	100 U	5 U
TOLUENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
1 1 2-TRICHLOROETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
TETRACHLOROETHENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
2-HEXANONE	50 U	50 U	250 U	2500 U	250 U	250 U	125 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	200 U	100 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
CHLOROBENZENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
ETHYLBENZENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
P-XYLENE/M-XYLENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	120 U	60 U	3 U
O-XYLENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
STYRENE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
BROMOFORM	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	25 U	250 U	25 U	25 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	50 U	40 U	20 U	1 U

This well was not sampled on the following dates: April and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and April 1998.

WELL NUMBER EW-5
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Apr-14	Oct-14	May-15	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	1 U	1 U	4 U	4 U	0.35 U	0.35 U	0.35 U	1.8 U	1.8 U	5 U	1.8 U	10 U	5 U	2 U	1 U	1.0 U	0.0
VINYL CHLORIDE	330	270	38	280	300	220	240	150	81	430	430	1,000	500	230	150	210	198.9
CHLOROETHANE	1 U	1 U	4 U	4 U	0.32 U	0.32 U	0.32 U	1.6 U	1.6 U	5 U	1.6 U	10 U	5 U	2 U	1 U	1.0 U	0.0
BROMOMETHANE	1 U	1 U	4 U	4 U	0.28 U	0.69 U	0.69 U	3.5 U	3.5 U	5 U	3.5 U	10 U	5 U	2 U	1 U	1.0 U	0.0
1 1-DICHLOROETHENE	2.8	4	4 U	4 U	2.6	1.9	2.6	1.5 U	1.5 U	1.5	1.5 U	10 U	5 U	2 U	0.8	2.0	1.8
ACETONE	5 U	5 U	20 U	20 U	1.3 U	3.0 U	3 U	15 U	15 U	25 U	15 U	50 U	50 U	10 U	5 U	5.8	0.2
CARBON DISULFIDE	0.77	1 U	4 U	3.7	0.19 U	0.19 U	0.19 U	0.95 U	0.95 U	5 U	0.95 U	10 U	5 U	6.4	4.3	0.31	24.6
METHYLENE CHLORIDE	1 U	1 U	4 U	4 U	0.44 U	0.44 U	0.44 U	2.2 U	2.2 U	5 U	2.2 U	10 U	5 U	2 U	1 U	1.0 U	0.0
TRANS-1 2-DICHLOROETHENE	5.2	6.2	4 U	6.6	7	6.0	7.3	4.5 U	4.5 U	5 U	4.5 U	10	4.3	2.8	3	4.1	2.2
1 1-DICHLOROETHANE	1.9	2.8	4 U	4 U	3	2.6	4.2	2.1	1.9 U	5.4	4.5	10	5.2	2.6	2.4	10	1.7
CIS-1 2-DICHLOROETHENE	840	1,200	270	1,400	1100	590	800	200	390	470	400	1,600	450	140	85	530	572.2
METHYL ETHYL KETONE	5 U	5 U	20 U	20 U	1.3 U	1.3 U	1.3 U	6.6 U	6.6 U	25 U	6.6 U	50 U	25 U	10 U	5 U	5.0 U	2.1
CHLOROFORM	0.43	0.56	4 U	4 U	0.53	0.6	0.67	1.7 U	1.7 U	5 U	1.7 U	6.5	2.8	2 U	1 U	0.53	0.4
1 1 1-TRICHLOROETHANE	2.9	5.2	4 U	5.6	5.4	4.7	14	4.4	4.1 U	4.3	4.2	11	4.2	1.5	1.1	15	2.5
CARBON TETRACHLORIDE	1 U	1 U	4 U	4 U	0.27 U	0.27 U	0.27 U	1.4 U	1.4 U	5 U	1.4 U	10 U	5 U	2 U	1 U	1.0 U	0.4
BENZENE	1 U	1 U	4 U	4 U	0.41 U	0.41 U	0.41 U	2.1 U	2.1 U	5 U	2.1 U	10 U	5 U	2 U	1 U	1.0 U	0.0
1 2-DICHLOROETHANE	1 U	1 U	4 U	4 U	0.21 U	0.21 U	0.21 U	1.1 U	1.1 U	5 U	1.1 U	10 U	5 U	2 U	1 U	1.0 U	0.0
TRICHLOROETHENE	3.7	6.5	4 U	5.1	5.6	2.5	3.0	2.3 U	2.3 U	5 U	2.3 U	5.6	2.4	1.2	0.96	4.9	3.2
1 2-DICHLOROPROPANE	1 U	1 U	4 U	4 U	0.32 U	0.72 U	0.72 U	3.6 U	3.6 U	5 U	3.6 U	10 U	5 U	2 U	1 U	1.0 U	0.0
BROMODICHLOROMETHANE	1 U	1 U	4 U	4 U	0.39 U	0.39 U	0.39 U	2.0 U	2.0 U	5 U	2.0 U	10 U	5 U	2 U	1 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	1 U	1 U	4 U	4 U	0.36 U	0.36 U	0.36 U	1.8 U	1.8 U	5 U	1.8 U	10 U	5 U	2 U	1 U	1.0 U	0.0
MIBK	5 U	5 U	20 U	20 U	0.91 U	2.1 U	2.1 U	11 U	11 U	25 U	11 U	50 U	25 U	10 U	5 U	5.0 U	0.0
TOLUENE	1 U	1 U	4 U	4 U	0.51 U	0.51 U	0.51 U	2.6 U	2.6 U	5 U	2.6U	10 U	5 U	2 U	1 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	1 U	1 U	4 U	4 U	0.37 U	0.37 U	0.37 U	1.9 U	1.9 U	5 U	1.9 U	10 U	5 U	2 U	1 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	1 U	1 U	4 U	4 U	0.23 U	0.23 U	0.23 U	1.2 U	1.2 U	5 U	1.2 U	10 U	5 U	2 U	1 U	1.0 U	0.0
TETRACHLOROETHENE	1 U	1 U	4 U	4 U	0.36 U	0.36 U	0.36 U	1.8 U	1.8 U	5 U	1.8 U	10 U	5 U	2 U	1 U	1.0 U	0.0
2-HEXANONE	5 U	5 U	20 U	20 U	1.2 U	1.2 U	1.2 U	6.2 U	6.2 U	25 U	6.2 U	50 U	25 U	10 U	5 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	1 U	1 U	4 U	4 U	0.32 U	0.32 U	0.32 U	1.6 U	1.6 U	5 U	1.6 U	10 U	5 U	2 U	1 U	1.0 U	0.0
CHLOROBENZENE	1 U	1 U	4 U	4 U	0.32 U	0.75 U	0.75 U	3.8 U	3.8 U	5 U	3.8 U	10 U	5 U	2 U	1 U	1.0 U	0.0
ETHYLBENZENE	1 U	1 U	4 U	4 U	0.18 U	0.74 U	0.74 U	3.7 U	3.7 U	5 U	3.7 U	10 U	5 U	2 U	1 U	1.0 U	0.0
P-XYLENE/M-XYLENE	2 U	2 U	12 U	12 U	0.66 U	0.66 U	0.66 U	3.3 U	3.3 U	10 U	3.3 U	20 U	10 U	4 U	2 U	2.0 U	0.0
O-XYLENE	1 U	1 U	4 U	4 U	0.36 U	0.76 U	0.76 U	3.8 U	3.8 U	5 U	3.8 U	10 U	5 U	2 U	1 U	1.0 U	0.0
STYRENE	1 U	1 U	4 U	4 U	0.18 U	0.73 U	0.73 U	3.7 U	3.7 U	5 U	3.7 U	10 U	5 U	2 U	1 U	1.0 U	0.0
BROMOFORM	1 U	1 U	4 U	4 U	0.26 U	0.26 U	0.26 U	1.3 U	1.3 U	5 U	1.3 U	10 U	5 U	2 U	1 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	1 U	1 U	4 U	4 U	0.21 U	0.21 U	0.21 U	1.1 U	1.1 U	5 U	1.1 U	10 U	5 U	2 U	1 U	1.0 U	0.0

This well was not sampled on the following dates: April and October 1994; April, July and October 1995; April and July 1996; January, April and July 1997; and April 1998.

WELL NUMBER EW-6
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-93	Jul-93	Oct-93	Jan-94	Jul-94	Jan-95	Feb-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	24	24	51	24	25	32	52	34	15	15	48	10	10	25	11	11	38	1 U	1 U
CHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
1 1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
ACETONE	50 U	50 U	50 U	50 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.7	0.5 U	0.5 U	1	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5 U	5 U	5 U	5 U	14	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U
TRANS-1 2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
1 1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
CIS-1 2-DICHLOROETHENE	119	113	508	136	204	235	140	115	69	59	470	35	34	63	33	32	33	71	4
METHYL ETHYL KETONE	50 U	50 U	50 U	50 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
1 1 1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	6	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1 2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	5 U	5 U	6	7	5 U	5 U	5 U	12	5 U	5 U	22	0.7	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
1 2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
MIBK	50 U	50 U	50 U	50 U	50 U	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
1 1 2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
2-HEXANONE	50 U	50 U	50 U	50 U	50 U	50 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
P-XYLENE/M-XYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1 U	1 U

This well was not sampled on the following dates: April and October 1994; April, July, and October 1995.

WELL NUMBER EW-6
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-03	Oct-03	Apr-04	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Jul-10	Oct-10	Oct-11	Nov-12	Oct-13	Apr-14	Oct-14	May-15	Jun-15	Oct-15	Apr-16	Oct-16	AVG
CHLOROMETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.35 U	1 U	0.35 U	0.35 U	0.35 U	0.35 U	1 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
VINYL CHLORIDE	27	2 U	5 U	1 U	5 U	1 U	1 U	3	240	26	18	24	0.90 U	0.9 U	19	44	1.2	0.44	0.65	0.34	0.48	20.8
CHLOROETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.32 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMOMETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.28 U	1 U	0.69 U	0.69 U	0.69 U	0.69 U	1 U	0.69 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1-DICHLOROETHENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	3.1	1 U	0.29 U	0.29 U	0.29 U	0.29 U	1 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1
ACETONE	25 U	10 U	25 U	5 U	25 U	5 U	5 U	5 U	1.3 U	1 U	3.0 U	3 U	3.0 U	3.0 U	5 U	3.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
CARBON DISULFIDE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	0.39	0.19 U	1 U	0.19 U	0.19 U	0.19 U	0.19 U	1 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.1
METHYLENE CHLORIDE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.44 U	1 U	0.44 U	0.44 U	0.44 U	0.44 U	1 U	0.44 U	1.0 U	1.0 U	1.0 U	0.9	1.0 U	0.4
TRANS-1 2-DICHLOROETHENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	0.86	5.9	1 U	0.90 U	0.9 U	0.90 U	0.90 U	1 U	0.90 U	0.48	0.46	1.6	1.2	1.6	0.3
1 1-DICHLOROETHANE	5 U	2 U	5 U	0.54	5 U	1 U	1 U	1 U	5.4	1 U	0.38 U	0.41	0.38 U	0.38 U	1 U	0.80	0.40	0.39	3.6	2.2	3.6	0.4
CIS-1 2-DICHLOROETHENE	120	71	170	110	26	6.2	19	240	1,900	41	21	37	8.9	8.9	18	77	26	12	19	10	69	133.7
METHYL ETHYL KETONE	25 U	10 U	25 U	5 U	25 U	5 U	5 U	5 U	1.3 U	1 U	1.3 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	0.0
CHLOROFORM	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.34 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	1 U	0.34 U	1.0 U	1.0 U	0.68	1.0 U	1.0 U	0.0
1 1 1-TRICHLOROETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1.5	7.4	1 U	0.82 U	0.82 U	0.82 U	0.82 U	1 U	0.82 U	1.0 U	1.0 U	3.5	2.8	1.6	0.6
CARBON TETRACHLORIDE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.27 U	1 U	0.27 U	0.27 U	0.27 U	0.27 U	1 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BENZENE	0.7 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.41 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 2-DICHLOROETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.21 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TRICHLOROETHENE	5 U	0.72	5 U	0.65	5 U	1.7	1 U	4.6	11	1 U	0.46 U	0.46 U	0.46 U	0.46 U	1 U	0.46 U	1.0 U	0.25	1.3	0.7	1.1	1.7
1 2-DICHLOROPROPANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.33 U	1 U	0.72 U	0.72 U	0.72 U	0.72 U	1 U	0.72 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMODICHLOROMETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.39 U	1 U	0.39 U	0.39 U	0.39 U	0.39 U	1 U	0.39 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
CIS-1 3-DICHLOROPROPENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.36 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
MIBK	10 U	10 U	25 U	5 U	25 U	5 U	5 U	5 U	0.91 U	1 U	2.1 U	2.1 U	2.1 U	2.1 U	5 U	2.1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
TOLUENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.51 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	1 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.37 U	1 U	0.37 U	0.37 U	0.37 U	0.37 U	1 U	0.37 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1 2-TRICHLOROETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.23 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	1 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
TETRACHLOROETHENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.36 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	1 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
2-HEXANONE	10 U	10 U	25 U	5 U	25 U	5 U	5 U	5 U	1.2 U	1 U	1.2 U	1.2 U	1.2 U	1.2 U	5 U	1.2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.0
DIBROMOCHLOROMETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.32 U	1 U	0.32 U	0.32 U	0.32 U	0.32 U	1 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
CHLOROBENZENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.32 U	1 U	0.75 U	0.75 U	0.75 U	0.75 U	1 U	0.75 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
ETHYLBENZENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.18 U	1 U	0.74 U	0.74 U	0.74 U	0.74 U	1 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
P-XYLENE/M-XYLENE	5 U	6 U	15 U	3 U	10 U	2 U	2 U	2 U	0.66 U	1 U	0.66 U	0.66 U	0.66 U	0.66 U	2 U	0.66 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0
O-XYLENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.36 U	1 U	0.76 U	0.76 U	0.76 U	0.76 U	1 U	0.76 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
STYRENE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.18 U	1 U	0.73 U	0.73 U	0.73 U	0.73 U	1 U	0.73 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
BROMOFORM	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.26 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	1 U	0.26U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	5 U	2 U	5 U	1 U	5 U	1 U	1 U	1 U	0.21 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0

This well was not sampled on the following dates: April and October 1994; April, July, and October 1995.

WELL NUMBER EW-7
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Nov-94	Jan-95	Apr-95	Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
VINYL CHLORIDE	76	446	437	403	453	690	990	990	590	510	520	520	680	600	650	500	3,600	480	170	1,300
CHLOROETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
BROMOMETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
1 1-DICHLOROETHENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	7
ACETONE	500 U	500 U	500 U	1,000 U	1,000 U	1,000 U	1,250 U	1,250 U	1,250 U	1,250 U	1,200 U	1,200 U	1,200 U	500 U	1,200 U	500 U	1,300 U	200 U	1,300 U	10 U
CARBON DISULFIDE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
METHYLENE CHLORIDE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	68	250 U	100 U	250 U	20 U	250 U	1 U
TRANS-1 2-DICHLOROETHENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	23
1 1-DICHLOROETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25	250 U	50 U	250 U	20 U	250 U	25
CIS-1 2-DICHLOROETHENE	860	4,990	2,720	2,020	2,680	7,610	5,500	8,100	4,800	6,700	5,200	4,700	4,900	4,500	4,300	2,800	2,700	20 U	3,400	1,700
METHYL ETHYL KETONE	500 U	500 U	500 U	1,000 U	1,000 U	1,000 U	1,250 U	1,250 U	1,250 U	1,250 U	1,200 U	1,200 U	1,200 U	500 U	1,200 U	500 U	1,300 U	1,600	1,300 U	10 U
CHLOROFORM	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	200 U	250 U	1 U
1 1 1-TRICHLOROETHANE	50 U	50 U	88	100 U	100 U	106	125 U	250 U	250 U	250 U	250 U	250 U	250 U	51	250 U	50 U	250 U	20 U	250 U	17
CARBON TETRACHLORIDE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	18
BENZENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	35 U	250 U	14 U	35 U	0.7 U
1 2-DICHLOROETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
TRICHLOROETHENE	50 U	50 U	63	106	100 U	1,140	502	560	320	870	250 U	250 U	250 U	150	250 U	88	250 U	26	250 U	10
1 2-DICHLOROPROPANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
BROMODICHLOROMETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
CIS-1 3-DICHLOROPROPENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
MIBK	500 U	500 U	500 U	1,000 U	1,000 U	1,000 U	1,250 U	1,250 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	200 U	500 U	10 U
TOLUENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
TRANS-1 3-DICHLOROPROPENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
1 1 2-TRICHLOROETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
TETRACHLOROETHENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
2-HEXANONE	500 U	500 U	500 U	1,000 U	1,000 U	1,000 U	1,250 U	1,250 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	20 U	500 U	10 U
DIBROMOCHLOROMETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	200 U	250 U	1 U
CHLOROBENZENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
ETHYLBENZENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
P-XYLENE/M-XYLENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
O-XYLENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
STYRENE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
BROMOFORM	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U
1 1 2 2-TETRACHLOROETHANE	50 U	50 U	50 U	100 U	100 U	100 U	125 U	250 U	250 U	250 U	250 U	250 U	250 U	25 U	250 U	50 U	250 U	20 U	250 U	1 U

This well was not sampled on the following dates: April, July and October 1993; January 1994.

WELL NUMBER EW-7
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-05	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.35 U	0.35 U	0.35 U	7.0 U	3.5 U	3.5 U	1 U	5.0 U	0.0
VINYL CHLORIDE	1,500	1,200	990	890	780	1,000	2 U	37	970	810	610	700	640	470	490	713.7
CHLOROETHANE	40 U	200 U	100 U	2.1	1 U	50 U	2 U	0.32 U	0.32 U	0.4	6.4 U	3.2 U	3.2 U	1 U	5.0 U	0.1
BROMOMETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.28 U	0.69 U	0.69 U	14 U	6.9 U	6.9 U	1 U	5.0 U	0.0
1 1-DICHLOROETHENE	20 U	200 U	100 U	11	10	50 U	2 U	0.29 U	6.2	4.7	5.8 U	2.9 U	4.9	2.6	5.0 U	1.3
ACETONE	200 U	1,000 U	500 U	5 U	5 U	250 U	10 U	1.3 U	3.0 U	3 U	60 U	30 U	30 U	5 U	25 U	0.0
CARBON DISULFIDE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.19 U	0.19 U	0.19 U	3.8 U	1.9 U	1.9 U	2.3	1.5	0.1
METHYLENE CHLORIDE	20 U	200 U	100 U	12	12	50 U	2 U	0.44 U	3.1	1.6	8.8 U	4.4 U	4.4 U	8.6	16	3.4
TRANS-1 2-DICHLOROETHENE	20 U	200 U	100 U	13	8.6	50 U	2 U	1.3	6.9	5.7	18 U	9.0 U	9.0 U	3.8	4.0	1.8
1 1-DICHLOROETHANE	110	200 U	100 U	32	29	50 U	2.6	6.7	12	15	29	43	32	27	23	11.4
CIS-1 2-DICHLOROETHENE	1,100	4,100	3,700	2,900	2,700	3,200	150	89	2,300	1,400	1,500	250	910	610	690	2,938.3
METHYL ETHYL KETONE	200 U	1,000 U	500 U	5 U	5 U	250 U	10 U	1.3 U	1.3 U	1.3 U	26 U	13 U	13 U	5 U	25 U	44.4
CHLOROFORM	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.34 U	0.34 U	0.34 U	6.8 U	3.4 U	3.4 U	1 U	5.0 U	0.0
1 1 1-TRICHLOROETHANE	240	100	80	82	68	50 U	1.4	6.5	19	28	63	85	76	52	51	33.7
CARBON TETRACHLORIDE	60 U	200 U	100 U	1 U	1 U	50 U	2 U	0.27 U	0.27 U	0.27 U	5.4 U	2.7 U	U	1 U	5.0 U	0.5
BENZENE	14 U	200 U	100 U	1 U	1 U	250 U	2 U	0.41 U	0.41 U	0.41 U	8.2 U	4.1 U	4.1 U	1 U	5.0 U	0.0
1 2-DICHLOROETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.21 U	0.21 U	0.21 U	4.2 U	2.1 U	2.1 U	1 U	5.0 U	0.0
TRICHLOROETHENE	40 U	200 U	100 U	22	20	50 U	2 U	0.87	14	12	15	4.6 U	6.6	8.2	6.4	109.4
1 2-DICHLOROPROPANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.32 U	0.72 U	0.72 U	14 U	7.2 U	7.2 U	1 U	5.0 U	0.0
BROMODICHLOROMETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.39 U	0.39 U	0.39 U	7.8 U	3.9 U	3.9 U	1 U	5.0 U	0.0
CIS-1 3-DICHLOROPROPENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.36 U	0.36 U	0.36 U	7.2 U	3.6 U	3.6 U	1 U	5.0 U	0.0
MIBK	200 U	1,000 U	500 U	5 U	5 U	250 U	10 U	0.91 U	2.1 U	2.1 U	42 U	21 U	21 U	5 U	25 U	0.0
TOLUENE	20 U	200 U	100 U	0.54	0.58	50 U	2 U	0.51 U	0.51 U	0.51 U	10 U	5.1 U	5.1 U	1 U	5.0 U	0.0
TRANS-1 3-DICHLOROPROPENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.37 U	0.37 U	0.37 U	7.4 U	3.7 U	3.7 U	1 U	5.0 U	0.0
1 1 2-TRICHLOROETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.23 U	0.23 U	0.23 U	4.6 U	2.3 U	2.3 U	1 U	5.0 U	0.0
TETRACHLOROETHENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.36 U	0.36 U	0.36 U	7.2 U	3.6 U	3.6 U	1 U	5.0 U	0.0
2-HEXANONE	200 U	1,000 U	500 U	5 U	5 U	250 U	10 U	1.2 U	1.2 U	1.2 U	25 U	12 U	12 U	5 U	25 U	0.0
DIBROMOCHLOROMETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.32 U	0.32 U	0.32 U	6.4 U	3.2 U	3.2 U	1 U	5.0 U	0.0
CHLOROBENZENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.32 U	0.75 U	0.75 U	15 U	7.5 U	7.5 U	1 U	5.0 U	0.0
ETHYLBENZENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.18 U	0.74 U	0.74 U	15 U	7.4 U	7.4 U	0.2	5.0 U	0.0
P-XYLENE/M-XYLENE	20 U	600 U	300 U	2 U	2 U	150 U	6 U	0.66 U	0.66 U	0.66 U	13 U	6.6 U	6.6 U	2 U	10 U	0.0
O-XYLENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.36 U	0.76 U	0.76 U	15 U	7.6 U	7.6 U	0.24	5.0 U	0.0
STYRENE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.18 U	0.73 U	0.73 U	15 U	7.3 U	7.3 U	1 U	5.0 U	0.0
BROMOFORM	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.26 U	0.26 U	0.26 U	5.2 U	2.6 U	2.6 U	1 U	5.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	20 U	200 U	100 U	1 U	1 U	50 U	2 U	0.21 U	0.21 U	0.21 U	4.2 U	2.1 U	2.1 U	1 U	5.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January 1994.

WELL NUMBER EW-8
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Apr-94	Jul-94	Nov-94	Jan-95	Apr-95	Jul-95	Oct-95	Jan-96	Apr-96	Jul-96	Oct-96	Jan-97	Apr-97	Jul-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01
CHLOROMETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
VINYL CHLORIDE	5 U	12	19	147	500 U	500 U	50 U	460	250 U	130	160	160	190	150	250 U	110	210	200	440	110
CHLOROETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
BROMOMETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
1 1-DICHLOROETHENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	26	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	3
ACETONE	50 U	50 U	50 U	500 U	5,000 U	5,000 U	500 U	125 U	1,250 U	625 U	620 U	620 U	620 U	250 U	1,200 U	500 U	1,300 U	1,300 U	1,300 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
METHYLENE CHLORIDE	5 U	5 U	120	2,170	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	28	250 U	100 U	250 U	250 U	250 U	1 U
TRANS-1 2-DICHLOROETHENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	120	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	10
1 1-DICHLOROETHANE	5 U	6	6	50 U	500 U	500 U	50 U	34	250 U	125 U	120 U	120 U	120 U	16	250 U	50 U	250 U	250 U	250 U	8
CIS-1 2-DICHLOROETHENE	5 U	1,330	452	8,540	8,670	5,900	620	7,900	2,200	2,900	2,000	3,200	2,900	4,100	3,300	1,300	2,500	2,500	1,800	940
METHYL ETHYL KETONE	50 U	50 U	50 U	500 U	5,000 U	5,000 U	500 U	125 U	1,250 U	640	620 U	620 U	620 U	250 U	1,200 U	500 U	1,300 U	1,300 U	1,300 U	10 U
CHLOROFORM	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	2
1 1 1-TRICHLOROETHANE	5 U	5 U	48	248	500 U	500 U	50 U	180	250 U	125 U	120 U	120 U	130	50	250 U	50 U	250 U	250 U	250 U	25
CARBON TETRACHLORIDE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	19
BENZENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	35 U	250 U	35 U	35 U	0.7 U
1 2-DICHLOROETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
TRICHLOROETHENE	5 U	778	302	3,260	5,470	3,780	55	2,200	2,300	1,400	950	2,600	1,300	2,400	370	430	690	360	250 U	31
1 2-DICHLOROPROPANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
CIS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
MIBK	50 U	50 U	50 U	500 U	5,000 U	5,000 U	500 U	125 U	500 U	250 U	250 U	250 U	250 U	250 U	500 U	500 U	500 U	500 U	500 U	10 U
TOLUENE	5 U	5 U	6	50 U	535	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
TRANS-1 3-DICHLOROPROPENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
1 1 2-TRICHLOROETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
TETRACHLOROETHENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
2-HEXANONE	50 U	50 U	50 U	500 U	5,000 U	5,000 U	500 U	125 U	500 U	250 U	250 U	250 U	250 U	250 U	500 U	500 U	500 U	500 U	500 U	10 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
CHLOROBENZENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
ETHYLBENZENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	320	12 U	250 U	50 U	250 U	250 U	250 U	1 U
P-XYLENE/M-XYLENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	990	12 U	250 U	50 U	250 U	250 U	250 U	1 U
O-XYLENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	220	12 U	250 U	50 U	250 U	250 U	250 U	1 U
STYRENE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
BROMOFORM	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	12 U	250 U	50 U	250 U	250 U	250 U	1 U
1 1 2 2-TETRACHLOROETHANE	5 U	5 U	5 U	50 U	500 U	500 U	50 U	25 U	250 U	125 U	120 U	120 U	120 U	25 U	250 U	50 U	250 U	250 U	250 U	1 U

This well was not sampled on the following dates: April, July and October 1993; January 1994; October 2005.

WELL NUMBER EW-8
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-02	Oct-03	Oct-04	Oct-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	200 U	100 U	100 U	1 U	1 U	50 U	8.6 U	0.35 U	0.35 U	8.8 U	7.0 U	7.0 U	10 U	5.0 U	0.0
VINYL CHLORIDE	200 U	130	300	23	350	330	84	210	210	1,500	1,200	700	740	260	243.9
CHLOROETHANE	400 U	100 U	100 U	1 U	1 U	50 U	8.1 U	0.32 U	0.32 U	8.0 U	6.4 U	6.4 U	10 U	5.0 U	0.0
BROMOMETHANE	200 U	100 U	100 U	1 U	1 U	50 U	7.0 U	0.69 U	0.69 U	17 U	14 U	14 U	10 U	5.0 U	0.0
1 1-DICHLOROETHENE	200 U	100 U	100 U	1.2	9.6	50 U	7.3 U	9.2	14	7.3 U	5.8 U	5.8 U	8.8	3.2	2.1
ACETONE	2,000 U	500 U	500 U	5 U	3	250 U	34 U	3.0	3.0	75 U	60 U	60 U	50 U	25 U	0.3
CARBON DISULFIDE	200 U	100 U	100 U	1 U	1 U	50 U	4.8 U	0.19 U	0.19 U	4.8 U	3.8 U	3.8 U	10 U	5.0 U	0.0
METHYLENE CHLORIDE	200 U	64	100 U	1 U	1 U	50 U	11 U	3.5	25	11 U	8.8 U	8.8 U	10 U	5.0 U	68.9
TRANS-1 2-DICHLOROETHENE	200 U	100 U	100 U	1.8	13	50 U	10 U	8.8	4.9	23 U	18 U	18 U	8.1	4.3	4.9
1 1-DICHLOROETHANE	200 U	100 U	100 U	3.6	19	50 U	9.6 U	13	14	33	31	28	32	13	7.3
CIS-1 2-DICHLOROETHENE	3,300	2,700	3,000	420	3,600	2,800	1,400	2,900	1,900	4,900	880	2,400	2,200	810	2,750.3
METHYL ETHYL KETONE	2,000 U	500 U	500 U	5 U	5 U	250 U	33 U	1.3 U	1.3 U	33 U	26 U	26 U	50 U	25 U	18.3
CHLOROFORM	200 U	100 U	100 U	0.85	1.7	50 U	8.4 U	1.4	1.2	8.5 U	6.8 U	6.8 U	10 U	2.8	0.3
1 1 1-TRICHLOROETHANE	200 U	73	62	17	56	52	37	51	83	70	45	60	80	26	39.8
CARBON TETRACHLORIDE	600 U	100 U	100 U	1 U	1 U	50 U	6.7 U	0.27 U	0.27 U	6.8 U	5.4 U	5.4 U	10 U	5.0 U	0.5
BENZENE	140 U	100 U	100 U	1 U	1 U	250 U	10 U	0.41 U	0.41 U	10 U	8.2 U	8.2 U	10 U	5.0 U	0.0
1 2-DICHLOROETHANE	200 U	100 U	100 U	1 U	1 U	50 U	5.4 U	0.21 U	0.21 U	5.3 U	4.2 U	4.2 U	10 U	5.0 U	0.0
TRICHLOROETHENE	440	380	59	42	34	44	74	67	62	45	9.2 U	9.2 U	23	5.5	855.8
1 2-DICHLOROPROPANE	200 U	100 U	100 U	1 U	1 U	50 U	8.1 U	0.72 U	0.72 U	18 U	14 U	14 U	10 U	5.0 U	0.0
BROMODICHLOROMETHANE	200 U	100 U	100 U	1 U	1 U	50 U	9.6 U	0.39 U	0.39 U	9.8 U	7.8 U	7.8 U	10 U	5.0 U	0.0
CIS-1 3-DICHLOROPROPENE	200 U	100 U	100 U	1 U	1 U	50 U	8.9 U	0.36 U	0.36 U	9.0 U	7.2 U	7.2 U	10 U	5.0 U	0.0
MIBK	2,000 U	500 U	500 U	5 U	5 U	250 U	23 U	2.1 U	2.1 U	53 U	42 U	42 U	50 U	25 U	0.0
TOLUENE	200 U	100 U	100 U	1 U	1 U	50 U	13 U	0.51 U	0.51 U	13 U	10 U	10 U	10 U	5.0 U	15.5
TRANS-1 3-DICHLOROPROPENE	200 U	100 U	100 U	1 U	1 U	50 U	9.2 U	0.37 U	0.37 U	9.3 U	7.4 U	7.4 U	10 U	5.0 U	0.0
1 1 2-TRICHLOROETHANE	200 U	100 U	100 U	1 U	1 U	50 U	5.8 U	0.23 U	0.23 U	5.8 U	4.6 U	4.6 U	10 U	5.0 U	0.0
TETRACHLOROETHENE	200 U	100 U	100 U	1 U	1 U	50 U	9.1 U	0.36 U	0.36 U	9.0 U	7.2 U	7.2 U	10 U	5.0 U	0.0
2-HEXANONE	2,000 U	500 U	500 U	5 U	5 U	250 U	31 U	1.2 U	1.2 U	31 U	25 U	25 U	50 U	25 U	0.0
DIBROMOCHLOROMETHANE	200 U	100 U	100 U	1 U	1 U	50 U	8.1 U	0.32 U	0.32 U	8.0 U	6.4 U	6.4 U	10 U	5.0 U	0.0
CHLOROBENZENE	200 U	100 U	100 U	1 U	1 U	50 U	7.9 U	0.75 U	0.75 U	19 U	15 U	15 U	10 U	5.0 U	0.0
ETHYLBENZENE	200 U	100 U	100 U	1 U	1 U	50 U	4.6 U	0.74 U	0.74 U	19 U	15 U	15 U	10 U	5.0 U	9.1
P-XYLENE/M-XYLENE	200 U	300 U	300 U	2 U	2 U	150 U	16 U	0.66 U	0.66 U	17 U	13 U	13 U	20 U	10 U	28.3
O-XYLENE	200 U	100 U	100 U	1 U	1 U	50 U	9.0 U	0.76 U	0.76 U	19 U	15 U	15 U	10 U	5.0 U	6.3
STYRENE	200 U	100 U	100 U	1 U	1 U	50 U	4.6 U	0.73 U	0.73 U	18 U	15 U	15 U	10 U	5.0 U	0.0
BROMOFORM	200 U	100 U	100 U	1 U	1 U	50 U	6.4 U	0.26 U	0.26 U	6.5 U	5.2 U	5.2 U	10 U	5.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	200 U	100 U	100 U	1 U	1 U	50 U	5.3 U	0.21 U	0.21 U	5.3 U	4.2 U	4.2 U	10 U	5.0 U	0.0

This well was not sampled on the following dates: April, July and October 1993; January 1994; October 2005.

WELL NUMBER EW-13
ANALYTICAL SAMPLING RESULTS
(Concentrations in µg/L)

ANALYTE	Oct-11	Nov-12	Oct-13	Oct-14	Oct-15	Oct-16	AVG
CHLOROMETHANE	0.35 U	14 U	0.35 U	7.0 U	5 U	5.0 U	0.0
VINYL CHLORIDE	690	710	17	610	570	550	524.5
CHLOROETHANE	0.32 U	13 U	0.32 U	6.4 U	5 U	5.0 U	0.0
BROMOMETHANE	0.69 U	28 U	0.69 U	14 U	5 U	5.0 U	0.0
1 1-DICHLOROETHENE	10	12 U	0.29 U	6.6	5 U	3.2	2.2
ACETONE	3.0 U	120 U	3.0 U	60 U	25 U	25 U	0.0
CARBON DISULFIDE	0.69	7.6 U	0.19 U	3.8 U	5.5	5.0 U	1.0
METHYLENE CHLORIDE	0.44 U	18 U	0.44 U	8.8 U	5 U	5.0 U	0.0
TRANS-1 2-DICHLOROETHENE	6.3	36 U	0.90 U	18 U	4.3	4.6	2.5
1 1-DICHLOROETHANE	23	49	0.98	36	31	28	28.0
CIS-1 2-DICHLOROETHENE	2,100	1,600	23	840	520	650	955.5
METHYL ETHYL KETONE	1.3 U	53 U	1.3 U	26 U	25 U	25 U	0.0
CHLOROFORM	0.42	14 U	0.34 U	6.8 U	5 U	2.4	0.5
1 1 1-TRICHLOROETHANE	96	180	2.5	120	98	66	93.8
CARBON TETRACHLORIDE	0.27 U	11 U	0.27 U	5.4 U	5 U	5.0 U	0.0
BENZENE	0.41 U	16 U	0.41 U	8.2 U	5 U	5.0 U	0.0
1 2-DICHLOROETHANE	0.21 U	8.4 U	0.21 U	4.2 U	5 U	5.0 U	0.0
TRICHLOROETHENE	23	26	0.46 U	9.2 U	3.2	4.5	9.5
1 2-DICHLOROPROPANE	0.72 U	29 U	0.72 U	14 U	5 U	5.0 U	0.0
BROMODICHLOROMETHANE	0.39 U	16 U	0.39 U	7.8 U	5 U	5.0 U	0.0
CIS-1 3-DICHLOROPROPENE	0.36 U	14 U	0.36 U	7.2 U	5 U	5.0 U	0.0
MIBK	2.1 U	84 U	2.1 U	42 U	25 U	25 U	0.0
TOLUENE	0.87	20 U	0.51 U	10 U	5 U	5.0 U	0.1
TRANS-1 3-DICHLOROPROPENE	0.37 U	15 U	0.37 U	7.4 U	5 U	5.0 U	0.0
1 1 2-TRICHLOROETHANE	0.23 U	9.2 U	0.23 U	4.6 U	5 U	5.0 U	0.0
TETRACHLOROETHENE	0.36 U	14 U	0.36 U	7.2 U	5 U	5.0 U	0.0
2-HEXANONE	1.2 U	50 U	1.2 U	25 U	25 U	25 U	0.0
DIBROMOCHLOROMETHANE	0.32 U	13 U	0.32 U	6.4 U	5 U	5.0 U	0.0
CHLOROBENZENE	0.75 U	30 U	0.75 U	15U	5 U	5.0 U	0.0
ETHYLBENZENE	0.74 U	30 U	0.74 U	15 U	5 U	5.0 U	0.0
P-XYLENE/M-XYLENE	0.66 U	26 U	0.66 U	13 U	15 U	10 U	0.0
O-XYLENE	0.76 U	30 U	0.76 U	15 U	5 U	5.0 U	0.0
STYRENE	0.73 U	29 U	0.73 U	15 U	5 U	5.0 U	0.0
BROMOFORM	0.26 U	10 U	0.26 U	5.2 U	5 U	5.0 U	0.0
1 1 2 2-TETRACHLOROETHANE	0.21 U	8.4 U	0.21 U	4.2 U	5 U	5.0 U	0.0

This well was added to the sampling program in 2011.

Appendix F

Data Validation Services Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

January 9, 2017; Revised February 8, 2017

Cecelia Byers
CB&I
2790 Mosside Blvd
Monroeville, PA 15146

RE: Validation Report for the Textron Wheatfield Site
ALS SDG No. R1611185

Dear Ms. Byers:

Review has been completed for the data package noted above, generated by ALS, that pertains to samples collected 10/19/16 and 10/20/16 at the Textron Wheatfield site. Thirty one aqueous samples, two field duplicates, two equipment blanks, and a trip blank were processed for the site-specific volatile analytes by USEPA SW846 method 8260.

The data packages submitted have been reviewed using guidance from the USEPA CLP National Functional Guidelines for Organic Data Review, the specific laboratory methodology, and professional judgment, as affects the usability of the data. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Blanks
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Calibration Standards
* Sample Result Verification

The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, sample analyses were primarily conducted in compliance with the required analytical protocols. Sample results are usable either as reported or with minor qualification or edit.

The validation qualifier definitions and the laboratory sample identification summaries are attached to this text, and should be reviewed in conjunction with this report. Also included with the report are the client results tables, edited in red to reflect the qualifications recommended in this report.

Blind Field Duplicate Evaluations

The blind field duplicate evaluations were performed on BAT-87-22(1)-161019 and BAT-87-14(0)-101620. All correlations are within validation guidelines.

Volatile Analyses by EPA8260C

Results for analytes reported with the laboratory "E" flag are derived from the dilution analyses of the samples, thus reflecting responses within the established linear range of the instrument.

Detected results for 1,1-dichorethane and cis-1,2-dichloroethene that are derived from the initial analyses of BAT-EW-2-161019, BAT-EW-5-161019, BAT-93-03(1)-161019, and BAT-87-22(1)-161019 are qualified as estimated, with a high bias, due to elevated recoveries of those analytes in the associated LCS.

Calibration standards show responses within validation guidelines, with the following exceptions, results for which are qualified as estimated, with a possible low bias, in the indicated samples: bromomethane and carbon tetrachloride (23%D and 22%D) in BAT-EW-4-161019, BAT-EW-6-161019, BAT-89-04(1)-161019, BAT-87-22(1)-161019, BAT-87-19(1)-161019, BAT-87-20(0)-161019, and BAT-DW-12-161019.

Matrix spikes of BAT-87-13(3)-101620, BAT-EW-2-161019, and BAT-87-08(1)-161012 show recoveries and duplicate correlations for the evaluated analytes that are within validation guidelines.

The detections of bromomethane in BAT-DW-9-161020 and BAT-DUP-2-161020 are considered external contamination and edited to reflect non-detection, due to presence in the associated method blank.

Holding times were met. Surrogate and internal standard recoveries are compliant.

Some of the samples were processed only at dilution due to target analyte concentrations, resulting in elevated reporting limits.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1611185-001	BAT-EW-2-161019	10/19/2016	1015
R1611185-002	BAT-EW-3-161019	10/19/2016	1035
R1611185-003	BAT-EW-4-161019	10/19/2016	1045
R1611185-004	BAT-EW-5-101619	10/19/2016	1100
R1611185-005	BAT-EW-6-101619	10/19/2016	1125
R1611185-006	BAT-93-03(1)-161019	10/19/2016	1145
R1611185-007	BAT-89-04(1)-161019	10/19/2016	1245
R1611185-008	BAT-87-22(1)-161019	10/19/2016	1310
R1611185-009	DUP #1	10/19/2016	
R1611185-010	BAT-87-21(1)-161019	10/19/2016	1345
R1611185-011	BAT-87-19(1)-161019	10/19/2016	1405
R1611185-012	BAT-87-20(1)-101619	10/19/2016	1440
R1611185-013	BAT-87-20(0)-161019	10/19/2016	1425
R1611185-014	BAT-89-14(1)-161019	10/19/2016	1500
R1611185-015	BAT-EW-7-161019	10/19/2016	1515
R1611185-016	BAT-EW-13-161019	10/19/2016	1530
R1611185-017	BAT-EW-8-161019	10/19/2016	1545
R1611185-018	BAT-FB-1-161019	10/19/2016	1550
R1611185-019	BAT-87-01(1)-161019	10/19/2016	1605
R1611185-020	BAT-DW-12-161019	10/19/2016	1630
R1611185-021	BAT-87-02(1)-161020	10/20/2016	0950
R1611185-022	BAT-87-02(3)-161020	10/20/2016	0940
R1611185-023	BAT-87-10(0)-161020	10/20/2016	1010
R1611185-024	BAT-DW-11-161020	10/20/2016	1040
R1611185-025	BAT-FB-2-101620	10/20/2016	1030
R1611185-026	BAT-B-14(1)-101620	10/20/2016	1110
R1611185-027	BAT-87-13(3)-101620	10/20/2016	1145
R1611185-028	BAT-DW-10-161020	10/20/2016	1200
R1611185-029	BAT-89-15(1)-161020	10/20/2016	1215
R1611185-030	BAT-87-14(0)-161020	10/20/2016	1245
R1611185-031	BAT-DUP-2-161020	10/20/2016	
R1611185-032	BAT-87-08(1)-161020	10/20/2016	1305
R1611185-033	BAT-DW-9-161020	10/20/2016	1315
R1611185-034	BAT-B-8(0)-161020	10/20/2016	1330
R1611185-035	BAT-87-17(1)-161020	10/20/2016	1405
R1611185-036	Trip Blank	10/19/2016	

Appendix G

Niagara County Sewer District Semiannual Reports

CB&I
500 Penn Center Boulevard
Suite 1000
Pittsburgh, PA 15235
Tel: 412.372.7701
Fax: 412.380.4091
www.CBI.com

May 26, 2016

Mr. Dan Kummer
Niagara County Sewer District No. 1
7346 Liberty Drive
Niagara Falls, NY 14304-3762

Subject: ***Niagara County Sewer District Discharge Monitoring***
Semiannual Analytical Results
Permit No. 16-07
Textron Off-Site Groundwater Extraction System
Textron, Inc., Wheatfield, New York
Sample Dates: April 27 – 28, 2016

Dear Mr. Kummer:

Enclosed for your review are the semiannual discharge monitoring analytical results generated during the operation of Textron, Inc.'s (Textron) Off-Site Groundwater Extraction System located in Wheatfield, New York. The Off-Site Groundwater Extraction System was brought online in March 1993 and discharges to the Niagara County Sewer District (NCSD) sanitary sewer under Permit No. 16-07.

CB&I Environmental & Infrastructure, Inc., on behalf of Textron, collected grab samples of the discharge from the Extraction Well EW-6 location between April 27 and 28, 2016 in accordance with NCSD Permit No. 16-07. The field sampling sheets are included as Appendix A. The samples were kept on ice and hand delivered to ALS Environmental's laboratory in Rochester, New York, for analysis of volatile organic compounds via U.S. Environmental Protection Agency (USEPA) Method 624 and low level mercury via USEPA Method 1631E. All sampling and analytical activities were conducted in accordance with the requirements stated in NCSD Permit No. 16-07 and the April 20, 2016 addendum to Permit 16-07.

Approximately 9,182,873 gallons of groundwater were extracted by the off-site system and discharged to the NCSD sanitary sewer between November 1, 2015 and May 1, 2016 as calculated through the sum of the individual well totalizers. The discharge flow volumes for the months of November, December, January, February, March, and April are detailed on Tables 1 through 6, respectively. As part of a pilot program with the New York State Department of Environmental Conservation (NYSDEC), Extraction Well EW-5 was taken offline and will remain inactive while the results of the recent groundwater sampling event are discussed with the NYSDEC.

We have included laboratory analysis of mercury as requested in your April 20, 2016 addendum to Permit No. 16-07. The low level mercury analytical results are summarized with an estimate of the discharge loading in comparison to the permitted maximum daily discharge loading limits in Table 7.

Table 8 contains a summary of the semiannual discharge monitoring analytical data and an estimate of the discharge loading in comparison to the permitted maximum daily discharge loading limits. As illustrated in Tables 7 and 8, the estimated daily discharge loading during the monitoring period did not exceed the permitted limits and the system remains in compliance with pertinent permits and discharge requirements. The analytical results for the April 2016 sampling event are provided in Appendix B.

Please do not hesitate to contact me at 412.858.3977 should you have any questions regarding this project.

Sincerely,



Cecelia Byers
Project Manager
CB&I Environmental & Infrastructure, Inc.

Please Reply To: Cecelia Byers
Telephone: 412.858.3977
E-Mail Address: cecelia.byers@cbi.com

CB:lmk
Attachments: Tables
Appendix A – Field Sampling Sheets
Appendix B – Analytical Report

cc: Greg Simpson – Textron, e-copy
CB&I – File

Tables

Table 1
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
November 1 - November 30, 2015
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
11/01/15 08:03	32,108	18,642	11,897	0	**62,647**
11/02/15 08:03	32,006	18,443	11,652	0	62,101
11/03/15 08:03	31,884	18,526	11,667	0	62,077
11/04/15 08:03	33,061	19,182	12,154	0	64,397
11/05/15 08:03	31,695	18,207	11,880	0	61,782
11/06/15 08:03	31,614	18,116	10,435	0	60,165
11/07/15 08:03	31,534	18,079	10,270	0	59,883
11/08/15 08:03	31,460	18,042	10,539	0	60,041
11/09/15 08:03	31,375	18,061	10,016	0	59,452
11/10/15 08:03	31,321	18,029	9,815	0	59,165
11/11/15 08:03	31,263	18,043	10,196	0	59,502
11/12/15 08:03	31,226	18,029	10,778	0	60,033
11/13/15 08:03	31,207	17,916	11,095	0	60,218
11/14/15 08:03	31,138	17,875	11,302	0	60,315
11/15/15 08:03	31,046	17,860	11,080	0	59,986
11/16/15 08:03	30,968	17,866	10,698	0	59,532
11/17/15 08:03	30,889	18,088	10,533	0	59,510
11/18/15 08:03	30,804	18,128	9,719	0	58,651
11/19/15 08:03	30,726	18,114	9,307	0	58,147
11/20/15 08:03	30,668	18,106	9,208	0	57,982
11/21/15 08:03	30,587	18,171	9,102	0	57,860
11/22/15 08:03	30,510	18,214	8,946	0	57,670
11/23/15 08:03	30,502	18,212	8,815	0	57,529
11/24/15 08:03	30,509	18,091	8,824	0	57,424
11/25/15 08:17	30,827	18,181	8,978	0	57,986
11/26/15 08:03	30,241	17,836	8,812	0	56,889
11/27/15 08:03	30,523	17,998	8,736	0	57,257
11/28/15 08:03	30,538	18,025	8,554	0	57,117
11/29/15 08:03	31,104	18,393	0	0	49,497
11/30/15 08:03	31,146	18,450	0	0	49,596

Total Flow for November (gallons):	1,764,411
Maximum Daily Flow for November (gallons/day):	62,647
Average Daily Flow for November (gallons/day):	58,814

Table 2
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
December 1 - December 31, 2015
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
12/01/15 08:03	31,153	18,578	0	0	49,731
12/02/15 08:03	31,169	19,003	0	0	50,172
12/03/15 08:03	30,948	21,133	0	0	52,081
12/04/15 08:03	30,925	21,410	0	0	52,335
12/05/15 08:10	31,094	21,626	0	0	52,720
12/06/15 08:03	30,794	21,669	0	0	52,463
12/07/15 08:03	30,943	21,915	0	0	52,858
12/08/15 08:03	30,928	22,112	0	0	53,040
12/09/15 08:03	30,936	22,112	0	0	53,048
12/10/15 08:03	30,916	21,988	0	0	52,904
12/11/15 08:03	30,917	22,002	0	0	52,919
12/12/15 08:03	30,907	21,973	0	0	52,880
12/13/15 08:03	30,879	22,096	0	0	52,975
12/14/15 08:03	30,894	22,186	0	0	**53,080**
12/15/15 08:03	30,915	22,107	0	0	53,022
12/16/15 08:03	30,903	22,033	0	0	52,936
12/17/15 08:03	30,921	21,855	0	0	52,776
12/18/15 08:03	30,911	22,110	0	0	53,021
12/19/15 08:03	30,944	22,003	0	0	52,947
12/20/15 08:03	30,973	21,872	0	0	52,845
12/21/15 08:03	30,979	22,037	0	0	53,016
12/22/15 08:03	30,966	21,965	0	0	52,931
12/23/15 08:03	30,964	21,755	0	0	52,719
12/24/15 08:03	30,982	21,438	0	0	52,420
12/25/15 08:03	31,005	21,340	0	0	52,345
12/26/15 08:03	31,001	21,465	0	0	52,466
12/27/15 08:03	31,007	21,405	0	0	52,412
12/28/15 08:03	31,063	21,076	0	0	52,139
12/29/15 08:03	31,196	21,156	0	0	52,352
12/30/15 08:03	31,368	21,427	0	0	52,795
12/31/15 08:03	31,374	21,477	0	0	52,851

Total Flow for December (gallons):	1,629,119
Maximum Daily Flow for December (gallons/day):	53,080
Average Daily Flow for December (gallons/day):	52,555

Table 3
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
January 1 - Janaury 31, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
01/01/16 08:03	31,340	21,286	0	0	52,626
01/02/16 08:03	31,213	21,415	0	0	**52,628**
01/03/16 08:03	31,096	21,465	0	0	52,561
01/04/16 08:03	30,950	21,237	0	0	52,187
01/05/16 08:03	30,791	21,316	0	0	52,107
01/06/16 08:03	30,681	21,225	0	0	51,906
01/07/16 08:03	30,612	21,239	0	0	51,851
01/08/16 08:03	30,557	21,166	0	0	51,723
01/09/16 08:03	30,545	21,019	0	0	51,564
01/10/16 08:03	30,523	21,039	0	0	51,562
01/11/16 08:03	30,657	21,500	0	0	52,157
01/12/16 08:03	30,601	21,515	0	0	52,116
01/13/16 08:03	30,615	21,242	0	0	51,857
01/14/16 08:03	30,564	21,254	0	0	51,818
01/15/16 08:03	30,565	21,283	0	0	51,848
01/16/16 08:03	30,567	21,233	0	0	51,800
01/17/16 08:03	30,559	21,122	0	0	51,681
01/18/16 08:03	30,572	21,174	0	0	51,746
01/19/16 08:03	30,544	20,880	0	0	51,424
01/20/16 08:03	30,401	20,758	0	0	51,159
01/21/16 08:03	30,386	20,720	0	0	51,106
01/22/16 08:03	30,359	20,877	0	0	51,236
01/23/16 08:03	30,269	21,245	0	0	51,514
01/24/16 08:18	30,608	21,589	0	0	52,197
01/25/16 08:03	29,892	21,032	0	0	50,924
01/26/16 08:03	30,057	21,303	0	0	51,360
01/27/16 08:03	30,164	21,394	0	0	51,558
01/28/16 08:03	30,028	21,485	0	0	51,513
01/29/16 08:03	29,979	21,469	0	0	51,448
01/30/16 08:03	29,988	21,450	0	0	51,438
01/31/16 08:03	29,967	21,436	0	0	51,403

Total Flow for January (gallons):	1,604,018
Maximum Daily Flow for January (gallons/day):	52,628
Average Daily Flow for Janaury (gallons/day):	51,743

Table 4
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
February 1 - February 29, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
02/01/16 08:03	29,989	21,404	0	0	51,393
02/02/16 08:03	29,973	21,448	0	0	51,421
02/03/16 08:03	30,070	21,467	0	0	51,537
02/04/16 08:03	30,085	21,577	0	0	51,662
02/05/16 08:03	30,171	21,569	0	0	**51,740**
02/06/16 08:03	30,135	21,558	0	0	51,693
02/07/16 08:03	30,069	21,554	0	0	51,623
02/08/16 08:03	30,038	21,497	0	0	51,535
02/09/16 08:03	30,002	21,549	0	0	51,551
02/10/16 08:03	29,953	21,537	0	0	51,490
02/11/16 08:03	29,951	21,533	0	0	51,484
02/12/16 08:03	29,845	21,504	0	0	51,349
02/13/16 08:03	29,801	21,516	0	0	51,317
02/14/16 08:03	29,732	21,482	0	0	51,214
02/15/16 08:03	29,719	21,516	0	0	51,235
02/16/16 08:03	29,639	21,732	0	0	51,371
02/17/16 08:03	29,535	21,749	0	0	51,284
02/18/16 08:03	29,549	21,751	0	0	51,300
02/19/16 08:03	29,536	21,723	0	0	51,259
02/20/16 08:03	29,471	21,763	0	0	51,234
02/21/16 08:03	29,700	21,803	0	0	51,503
02/22/16 08:03	29,812	21,496	0	0	51,308
02/23/16 08:03	29,861	21,535	0	0	51,396
02/24/16 08:03	29,766	21,577	0	0	51,343
02/25/16 08:03	29,856	20,758	0	0	50,614
02/26/16 08:03	29,936	19,748	0	0	49,684
02/27/16 08:03	29,862	19,552	0	0	49,414
02/28/16 08:03	29,818	19,537	0	0	49,355
02/29/16 08:03	29,824	19,493	0	0	49,317

Total Flow for February (gallons):	1,482,626
Maximum Daily Flow for February (gallons/day):	51,740
Average Daily Flow for February (gallons/day):	51,125

Table 5
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
March 1 - March 31, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
03/01/16 08:03	29,774	19,435	0	0	49,209
03/02/16 08:03	29,657	19,411	0	0	49,068
03/03/16 08:03	29,667	19,400	0	0	49,067
03/04/16 08:03	29,267	19,130	9,995	0	58,392
03/05/16 08:03	29,142	19,184	11,912	0	60,238
03/06/16 08:03	29,088	19,190	11,916	0	60,194
03/07/16 08:03	29,068	19,050	11,998	0	60,116
03/08/16 08:03	29,121	18,983	12,260	0	60,364
03/09/16 08:03	29,067	18,986	12,603	0	60,656
03/10/16 08:03	29,135	18,963	12,839	0	60,937
03/11/16 08:03	29,163	18,964	13,991	0	62,118
03/12/16 08:03	29,142	19,028	14,687	0	**62,857**
03/13/16 08:03	29,087	18,936	14,177	0	62,200
03/14/16 08:03	29,078	18,954	13,806	0	61,838
03/15/16 08:03	29,076	18,968	14,044	0	62,088
03/16/16 08:03	29,047	18,978	13,087	0	61,112
03/17/16 08:03	29,031	19,041	12,759	0	60,831
03/18/16 08:03	29,004	19,034	12,845	0	60,883
03/19/16 08:03	28,966	19,106	12,859	0	60,931
03/20/16 08:03	28,935	19,093	12,789	0	60,817
03/21/16 08:03	28,910	19,072	12,846	0	60,828
03/22/16 08:03	28,875	18,999	12,657	0	60,531
03/23/16 08:03	28,839	18,796	12,547	0	60,182
03/24/16 08:03	28,819	18,807	12,269	0	59,895
03/25/16 08:03	28,921	18,879	13,892	0	61,692
03/26/16 08:03	28,955	18,861	14,800	0	62,616
03/27/16 08:08	29,016	18,933	14,568	0	62,517
03/28/16 08:08	28,881	18,827	14,428	0	62,136
03/29/16 08:03	28,754	18,765	14,391	0	61,910
03/30/16 08:03	28,822	18,843	13,884	0	61,549
03/31/16 08:03	28,782	19,295	13,129	0	61,206

Total Flow for March (gallons):	1,858,978
Maximum Daily Flow for March (gallons/day):	62,857
Average Daily Flow for March (gallons/day):	59,967

Table 6
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
April 1 - April 30, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
04/01/16 08:03	28,822	19,360	13,108	0	61,290
04/02/16 08:03	28,813	19,081	13,162	0	61,056
04/03/16 08:03	28,775	18,915	12,954	0	60,644
04/04/16 08:03	28,755	18,904	12,867	0	60,526
04/05/16 08:03	28,726	18,974	13,066	0	60,766
04/06/16 08:03	28,695	19,069	13,168	0	60,932
04/07/16 08:03	28,661	18,985	13,814	0	61,460
04/08/16 08:03	28,663	18,968	13,987	0	61,618
04/09/16 08:03	28,599	18,941	13,675	0	61,215
04/10/16 08:03	28,555	18,911	13,458	0	60,924
04/11/16 08:03	28,523	18,913	13,523	0	60,959
04/12/16 08:03	28,556	18,950	14,238	0	**61,744**
04/13/16 08:03	28,515	18,933	14,072	0	61,520
04/14/16 08:03	28,474	18,911	13,598	0	60,983
04/15/16 08:03	28,403	18,901	13,141	0	60,445
04/16/16 08:03	28,332	18,894	12,652	0	59,878
04/17/16 08:03	28,271	18,920	12,636	0	59,827
04/18/16 08:03	28,250	18,900	12,615	0	59,765
04/19/16 08:03	28,252	18,881	12,722	0	59,855
04/20/16 08:03	28,205	18,837	12,521	0	59,563
04/21/16 08:03	28,161	18,836	12,662	0	59,659
04/22/16 08:03	28,102	18,829	11,915	0	58,846
04/23/16 08:03	28,160	18,827	12,769	0	59,756
04/24/16 08:03	28,140	18,825	13,460	0	60,425
04/25/16 08:03	28,073	18,835	13,569	0	60,477
04/26/16 08:03	28,034	18,822	13,727	0	60,583
04/27/16 08:03	28,080	18,603	14,296	0	60,979
04/28/16 08:03	28,021	18,664	13,832	0	60,517
04/29/16 08:03	**27,955**	**18,666**	**13,604**	0	**60,225**
04/30/16 08:03	27,948	18,690	13,310	0	59,948

Total Flow for April (gallons):	1,816,385
Maximum Daily Flow for April (gallons/day):	61,744
Average Daily Flow for April (gallons/day):	60,546

Blue - indicates an estimated daily flow rate based on logged data.

Table 7
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
April 27 - 28, 2016
Sample ID: MH No. 9-3

Parameter via USEPA Method 1631E	Reported Concentration (mg/L)	Total Flow (gallons per day)[1]	Discharge Loading Pounds per Day[2]	Discharge Limitation (mg/L)
Mercury, Total	0.0014	60,517	< 0.0000007070	0.001

Notes:

Total Flow Limit: 200,000 gallons per day (gpd).

< - Not detected at indicated method detection limit.

For calculation purposes, "Not Detected" values are assigned the value of the method detection limit.

[1] Total flow during sampling period was based on the total flow measurements for the sampling date.

[2] Determined as follows: (Concentration in µg/L) x (flow rate in gpd) x (CF)

CF = Conversion Factor 8.3×10^{-9}

Table 8
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit No. 16-07
April 27 - 28, 2016
Sample ID: MH No. 9-3

Parameter via USEPA Method 624	Reported Concentration (µg/L)	Total Flow (gallons per day)[1]	Discharge Loading Pounds per Day[2]	Maximum Daily Discharge Loading Limits
Trichloroethene	< 1.0	60,517	< 0.000505014	1.0
1,2-Dichloroethene (Total)	6.1	60,517	0.003080588	2.500
Vinyl Chloride	< 1.0	60,517	< 0.000505014	0.4000
Methylene Chloride	< 1.0	60,517	< 0.000505014	0.2

Notes:

Total Flow Limit: 200,000 gallons per day (gpd).

< - Not detected at indicated method detection limit.

For calculation purposes, "Not Detected" values are assigned the value of the method detection limit.

[1] Total flow during sampling period was based on the total flow measurements for the sampling date.

[2] Determined as follows: (Concentration in µg/L) x (flow rate in gpd) x (CF)

CF = Conversion Factor 8.3×10^{-9}

Appendix A

Field Sampling Sheets

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

39311

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: TEXTRON	Project Number: 156045
Project Manager: CECELIA BYERS	Report CC:
Company/Address: CB&I 13 BRITISH AMERICAN BLVD LATHAM, NY 12110	
Phone #: (518) 783-1996	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: KEVIN CRONIN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MH No. 9-3		4/27/16	1220	GW	3	X							COMPOSITE SAMPLES INTO ONE SAMPLE FOR ANALYSIS
MH No. 9-3		↓	2025	GW	3	X							
MH No. 9-3		4/28/16	0330	GW	3	X							
MH No. 9-3		↓	0815	GW	3	X							
TRIP BLANK					3	X							

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE STANDARD TAT

REPORT REQUIREMENTS
✓ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kevin Cronin	Signature: Bob Ulsh	Signature	Signature	Signature	Signature
Printed Name: KEVIN CRONIN	Printed Name: BOB ULSH	Printed Name	Printed Name	Printed Name	Printed Name
Firm: CB&I	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 4/28/16 1230	Date/Time: 4/28/16 1230	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: April 27, 2016
Time: 1220
Field Personnel: Kevin Cronin BOB URBAN - ACS

Physical Condition of Location: Good
Ambient Temperature: 50°F
Wind: LIGHT
Precipitation: NONE

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: April 27, 2016
Time: 2025
Field Personnel: Kevin Cronin

Physical Condition of Location: Good
Ambient Temperature:
Wind:
Precipitation:

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: April 28, 2016
Time: 0330
Field Personnel: Kevin Cronin

Physical Condition of Location: Good
Ambient Temperature: 30°
Wind: LIGHT
Precipitation: NONE

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: April 28, 2016
Time: 0815
Field Personnel: Kevin Cronin

Physical Condition of Location: Good
Ambient Temperature: 35°F
Wind: LIGHT
Precipitation: NONE

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kevin Cronin

Appendix B

Analytical Report

May 11, 2016 Service Request No:R1604311

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mosside Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory April 29, 2016
For your reference, these analyses have been assigned our service request number **R1604311.**

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
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1604311

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1604311-001	MH No. 9-3	4/28/2016	0815
R1604311-002	Trip blank	4/28/2016	
R1604311-003	MH No. 9-3	4/27/2016	1220

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with “ALS Field Procedures and Measurements Manual” or by client specifications.

Client: CB&I **Service Request:** R1604311
Project: Textron Wheatfield/156045

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
624	Water	1,2-Dichloroethene, Total

REPORT QUALIFIERS AND DEFINITIONS

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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
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).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs 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 http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

Client:	CB&I	**Service Request:**	R1604311
Project:	Textron Wheatfield/156045	**Date Collected:**	04/28/16 08:15
Sample Matrix:	Water	**Date Received:**	04/29/16 08:45
Sample Name:	MH No. 9-3	**Units:**	ug/L
Lab Code:	R1604311-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**1.8**	1.0	1	05/02/16 19:45	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	05/02/16 19:45	
1,1,2-Trichloroethane	1.0 U	1.0	1	05/02/16 19:45	
1,1-Dichloroethane (1,1-DCA)	**1.6**	1.0	1	05/02/16 19:45	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	05/02/16 19:45	
1,2-Dichlorobenzene	1.0 U	1.0	1	05/02/16 19:45	
1,2-Dichloroethane	1.0 U	1.0	1	05/02/16 19:45	
1,2-Dichloropropane	1.0 U	1.0	1	05/02/16 19:45	
1,3-Dichlorobenzene	1.0 U	1.0	1	05/02/16 19:45	
1,4-Dichlorobenzene	1.0 U	1.0	1	05/02/16 19:45	
2-Chloroethyl Vinyl Ether	10 U	10	1	05/02/16 19:45	
Acrolein	10 U	10	1	05/02/16 19:45	
Acrylonitrile	10 U	10	1	05/02/16 19:45	
Benzene	1.0 U	1.0	1	05/02/16 19:45	
Bromodichloromethane	1.0 U	1.0	1	05/02/16 19:45	
Bromoform	1.0 U	1.0	1	05/02/16 19:45	
Bromomethane	1.0 U	1.0	1	05/02/16 19:45	
Carbon Tetrachloride	1.0 U	1.0	1	05/02/16 19:45	
Chlorobenzene	1.0 U	1.0	1	05/02/16 19:45	
Chloroethane	1.0 U	1.0	1	05/02/16 19:45	
Chloroform	1.0 U	1.0	1	05/02/16 19:45	
Chloromethane	1.0 U	1.0	1	05/02/16 19:45	
Chlorodibromomethane	1.0 U	1.0	1	05/02/16 19:45	
Methylene Chloride	1.0 U	1.0	1	05/02/16 19:45	
Ethylbenzene	1.0 U	1.0	1	05/02/16 19:45	
Tetrachloroethene (PCE)	1.0 U	1.0	1	05/02/16 19:45	
Toluene	1.0 U	1.0	1	05/02/16 19:45	
Trichloroethene (TCE)	1.0 U	1.0	1	05/02/16 19:45	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	05/02/16 19:45	
Vinyl Chloride	1.0 U	1.0	1	05/02/16 19:45	
cis-1,3-Dichloropropene	1.0 U	1.0	1	05/02/16 19:45	
trans-1,3-Dichloropropene	1.0 U	1.0	1	05/02/16 19:45	
1,2-Dichloroethene, Total	**6.1**	2.0	1	05/02/16 19:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	81 - 127	05/02/16 19:45	
4-Bromofluorobenzene	96	79 - 123	05/02/16 19:45	
Toluene-d8	99	83 - 120	05/02/16 19:45	

Analytical Report

Client:	CB&I	**Service Request:**	R1604311
Project:	Textron Wheatfield/156045	**Date Collected:**	04/28/16
Sample Matrix:	Water	**Date Received:**	04/29/16 08:45
Sample Name:	Trip blank	**Units:**	ug/L
Lab Code:	R1604311-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	05/02/16 20:17	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	05/02/16 20:17	
1,1,2-Trichloroethane	1.0 U	1.0	1	05/02/16 20:17	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	05/02/16 20:17	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	05/02/16 20:17	
1,2-Dichlorobenzene	1.0 U	1.0	1	05/02/16 20:17	
1,2-Dichloroethane	1.0 U	1.0	1	05/02/16 20:17	
1,2-Dichloropropane	1.0 U	1.0	1	05/02/16 20:17	
1,3-Dichlorobenzene	1.0 U	1.0	1	05/02/16 20:17	
1,4-Dichlorobenzene	1.0 U	1.0	1	05/02/16 20:17	
2-Chloroethyl Vinyl Ether	10 U	10	1	05/02/16 20:17	
Acrolein	10 U	10	1	05/02/16 20:17	
Acrylonitrile	10 U	10	1	05/02/16 20:17	
Benzene	1.0 U	1.0	1	05/02/16 20:17	
Bromodichloromethane	1.0 U	1.0	1	05/02/16 20:17	
Bromoform	1.0 U	1.0	1	05/02/16 20:17	
Bromomethane	1.0 U	1.0	1	05/02/16 20:17	
Carbon Tetrachloride	1.0 U	1.0	1	05/02/16 20:17	
Chlorobenzene	1.0 U	1.0	1	05/02/16 20:17	
Chloroethane	1.0 U	1.0	1	05/02/16 20:17	
Chloroform	1.0 U	1.0	1	05/02/16 20:17	
Chloromethane	1.0 U	1.0	1	05/02/16 20:17	
Chlorodibromomethane	1.0 U	1.0	1	05/02/16 20:17	
Methylene Chloride	1.0 U	1.0	1	05/02/16 20:17	
Ethylbenzene	1.0 U	1.0	1	05/02/16 20:17	
Tetrachloroethene (PCE)	1.0 U	1.0	1	05/02/16 20:17	
Toluene	1.0 U	1.0	1	05/02/16 20:17	
Trichloroethene (TCE)	1.0 U	1.0	1	05/02/16 20:17	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	05/02/16 20:17	
Vinyl Chloride	1.0 U	1.0	1	05/02/16 20:17	
cis-1,3-Dichloropropene	1.0 U	1.0	1	05/02/16 20:17	
trans-1,3-Dichloropropene	1.0 U	1.0	1	05/02/16 20:17	
1,2-Dichloroethene, Total	2.0 U	2.0	1	05/02/16 20:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	97	81 - 127	05/02/16 20:17	
4-Bromofluorobenzene	97	79 - 123	05/02/16 20:17	
Toluene-d8	99	83 - 120	05/02/16 20:17	

Analytical Report

Client:	CB&I	**Service Request:**	R1604311
Project:	Textron Wheatfield/156045	**Date Collected:**	04/27/16 12:20
Sample Matrix:	Water	**Date Received:**	04/29/16 08:45
Sample Name:	MH No. 9-3	**Basis:**	NA
Lab Code:	R1604311-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Mercury, Total	1631E	**1.4**	ng/L	1.0	1	05/06/16 10:49	

Analytical Report

Client:	CB&I	**Service Request:**	R1604311
Project:	Textron Wheatfield/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1604311-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Mercury, Total	1631E	1.0 U	ng/L	1.0	1	05/06/16 08:10	

Analytical Report

Client:	CB&I	**Service Request:**	R1604311
Project:	Textron Wheatfield/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1604850-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	05/02/16 13:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	05/02/16 13:37	
1,1,2-Trichloroethane	1.0 U	1.0	1	05/02/16 13:37	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	05/02/16 13:37	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	05/02/16 13:37	
1,2-Dichlorobenzene	1.0 U	1.0	1	05/02/16 13:37	
1,2-Dichloroethane	1.0 U	1.0	1	05/02/16 13:37	
1,2-Dichloropropane	1.0 U	1.0	1	05/02/16 13:37	
1,3-Dichlorobenzene	1.0 U	1.0	1	05/02/16 13:37	
1,4-Dichlorobenzene	1.0 U	1.0	1	05/02/16 13:37	
2-Chloroethyl Vinyl Ether	10 U	10	1	05/02/16 13:37	
Acrolein	10 U	10	1	05/02/16 13:37	
Acrylonitrile	10 U	10	1	05/02/16 13:37	
Benzene	1.0 U	1.0	1	05/02/16 13:37	
Bromodichloromethane	1.0 U	1.0	1	05/02/16 13:37	
Bromoform	1.0 U	1.0	1	05/02/16 13:37	
Bromomethane	1.0 U	1.0	1	05/02/16 13:37	
Carbon Tetrachloride	1.0 U	1.0	1	05/02/16 13:37	
Chlorobenzene	1.0 U	1.0	1	05/02/16 13:37	
Chloroethane	1.0 U	1.0	1	05/02/16 13:37	
Chloroform	1.0 U	1.0	1	05/02/16 13:37	
Chloromethane	1.0 U	1.0	1	05/02/16 13:37	
Chlorodibromomethane	1.0 U	1.0	1	05/02/16 13:37	
Methylene Chloride	1.0 U	1.0	1	05/02/16 13:37	
Ethylbenzene	1.0 U	1.0	1	05/02/16 13:37	
Tetrachloroethene (PCE)	1.0 U	1.0	1	05/02/16 13:37	
Toluene	1.0 U	1.0	1	05/02/16 13:37	
Trichloroethene (TCE)	1.0 U	1.0	1	05/02/16 13:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	05/02/16 13:37	
Vinyl Chloride	1.0 U	1.0	1	05/02/16 13:37	
cis-1,3-Dichloropropene	1.0 U	1.0	1	05/02/16 13:37	
trans-1,3-Dichloropropene	1.0 U	1.0	1	05/02/16 13:37	
1,2-Dichloroethene, Total	2.0 U	2.0	1	05/02/16 13:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	98	81 - 127	05/02/16 13:37	
4-Bromofluorobenzene	90	79 - 123	05/02/16 13:37	
Toluene-d8	98	83 - 120	05/02/16 13:37	

Client: CB&I
Project: Textron Wheatfield/156045
Sample Matrix: Water

Service Request: R1604311
Date Analyzed: 05/06/16

Lab Control Sample Summary
Inorganic Parameters

Units:ng/L
Basis:NA

Lab Control Sample
R1604311-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	1631E	5.36	5.0	107	77-128

Client: CB&I
Project: Textron Wheatfield/156045
Sample Matrix: Water

Service Request: R1604311
Date Analyzed: 05/02/16

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1604850-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	624	18.3	20.0	91	52-162
1,1,2,2-Tetrachloroethane	624	17.8	20.0	89	46-157
1,1,2-Trichloroethane	624	18.4	20.0	92	52-150
1,1-Dichloroethane (1,1-DCA)	624	18.1	20.0	90	59-155
1,1-Dichloroethene (1,1-DCE)	624	19.0	20.0	95	10-234
1,2-Dichlorobenzene	624	17.2	20.0	86	18-190
1,2-Dichloroethane	624	17.9	20.0	89	49-155
1,2-Dichloropropane	624	16.3	20.0	82	10-210
1,3-Dichlorobenzene	624	17.0	20.0	85	59-156
1,4-Dichlorobenzene	624	16.7	20.0	83	18-190
2-Chloroethyl Vinyl Ether	624	17.8	20.0	89	10-305
Acrolein	624	84.8	100	85	10-186
Acrylonitrile	624	94.2	100	94	70-130
Benzene	624	17.6	20.0	88	37-151
Bromodichloromethane	624	18.8	20.0	94	35-155
Bromoform	624	21.2	20.0	106	45-169
Bromomethane	624	19.7	20.0	98	10-242
Carbon Tetrachloride	624	20.6	20.0	103	70-140
Chlorobenzene	624	17.9	20.0	90	37-160
Chloroethane	624	17.9	20.0	89	14-230
Chloroform	624	18.6	20.0	93	51-138
Chloromethane	624	16.2	20.0	81	10-273
Chlorodibromomethane	624	20.2	20.0	101	53-149
Methylene Chloride	624	18.1	20.0	91	10-221
Ethylbenzene	624	16.9	20.0	84	37-162
Tetrachloroethene (PCE)	624	17.2	20.0	86	64-148
Toluene	624	17.5	20.0	88	47-150
Trichloroethene (TCE)	624	18.7	20.0	94	71-157
Trichlorofluoromethane (CFC 11)	624	19.1	20.0	96	17-181
Vinyl Chloride	624	21.4	20.0	107	10-251
cis-1,3-Dichloropropene	624	18.5	20.0	92	10-227
trans-1,3-Dichloropropene	624	18.8	20.0	94	17-183

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

39311

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: TEXTRON	Project Number: 156045
Project Manager: CECELIA BYERS	Report CC:
Company/Address: CB&I 13 BRITISH AMERICAN BLVD LATHAM, NY 12110	
Phone #: (518) 783-1996	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature: Kevin Cronin	Sampler's Printed Name: KEVIN CRONIN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 8624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MH NO. 5-3		4/27/16	1220	GW	3	X							COMPOSITE SAMPLES INTO ONE SAMPLE FOR ANALYSIS
MH NO. 7-3		↓	2025	GW	3	X							
MH NO. 8-3		4/28/16	0830	GW	3	X							
MH NO. 9-3		↓	0815	GW	3	X							
TRIP BLANK					3	X							

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE: STANDARD TAT

REPORT REQUIREMENTS
✓ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____Yes _____No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kevin Cronin	Signature: Barb Lucas	Signature:	Signature: Gary Litz	Signature:	Signature:
Printed Name: KEVIN CRONIN	Printed Name: BARB LUCAS	Printed Name:	Printed Name: GARY LITZ	Printed Name:	Printed Name:
Firm: CB&I	Firm: ALS	Firm:	Firm: ALS	Firm:	Firm:
Date/Time: 4/28/16 1230	Date/Time: 4/29/16 1230	Date/Time:	Date/Time: 4/29/16 0845	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return to Originator

R1604311 5
CB&I Environmental & Infrastructure
Textron Wheatfield

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

33171

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Project Name	Project Number
TEXTRON S&I-ANNUAL	
Project Manager	**Report CC**
KEVIN CRONIN	
Company/Address	
CB&I	
Phone #	**Email**
Sampler's Signature	**Sampler's Printed Name**
	BOB URBAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs • 8260 • 624 • CLP	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	LL Hg	REMARKS/ ALTERNATE DESCRIPTION
~~EW1~~ BAT-EW2-160427		4/27/16	1035	W	X								MS/MSD
BAT-EW3-160427			1055										
BAT-EW4-160427			1125										
BAT-DUP01-160427			~~1~~										DUP
BAT-EW5-160427			1145										
BAT-EW6-160427			1220								X		
BAT-93-03(2)-160427			1250										
BAT-EB01-160427			1255										
T.B.													

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Metals

1631 sample ID changed to MH NO9-3 as per Cecelia Byers LMS 5/2/16

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 1 day ____ 2 day ____ 3 day

_____ 4 day ____ 5 day

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION

PO #

BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name BOB URBAN	Printed Name	Printed Name	Printed Name	Printed Name	
Firm ALS	Firm ALS	Firm	Firm	Firm	
Date/Time	Date/Time 4/29/16 0845	Date/Time	Date/Time	Date/Time	

R1604276 4311 5

CB&I Environmental & Infrastructure
Textron Wheatfield

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservation Check Form

R1604311 5
CB&I Environmental & Infrastructure
Textron Wheatfield

Project/Client CB&I Folder Number

Cooler received on 4/29/16 by: (e)

COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 4/29/16 Time: 0845 ID: IR#3 (IR#5) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.3	1.5	0.3				
Correction Factor (°C)	+0.0	+0.0	+0.0				
Corrected Temp (°C)	1.3°	1.5°	0.3°				
Within 0-6°C?	(Y) N	(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

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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 (e) on 4/29/16 at 0857
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: 5/2/16

Cooler Breakdown: Date: 4/29/16 Time: 1846 by: (e)

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES (NO)
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114070					

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: _____
Other Comments:

BOD (5)
NO_3 6
4/28/16
0915-1155

PC Secondary Review: 5/3/16

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Cooler Receipt and Preservation Check Form

R1604276 5

CB&I Environmental & Infrastructure
Textron Wheatfield

Project/Client CBEI Folder Number R1604311

Cooler received on 4/29/16 by: [illegible]

COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 4/29/16 Time: 0845 ID: IR#3 (IR#5) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	1.3	1.5	0.3				
Correction Factor (°C)	+0.0	+0.0	+0.0				
Corrected Temp (°C)	1.3°	1.5°	0.3°				
Within 0-6°C?	(Y) N	(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

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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 [illegible] on 4/29/16 at 0857
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: [illegible] 5/2/16

Cooler Breakdown: Date: 4/29/16 Time: 1835 by: [illegible]

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES (NO)
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114070	4/17				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-317-002, 1086833

Other Comments:

BOD (5)
NO_3 6
4/28/16
0915-1155

PC Secondary Review: [illegible] 5/2/16 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

CB&I
500 Penn Center Boulevard
Suite 1000
Pittsburgh, PA 15235
Tel: 412.372.7701
Fax: 412.380.4091
www.CBI.com

November 3, 2016

Mr. Dan Kummer
Niagara County Sewer District No. 1
7346 Liberty Drive
Niagara Falls, NY 14304-3762

Subject: ***Niagara County Sewer District Discharge Monitoring***
Semiannual Analytical Results
Permit No. 16-07
Textron Off-Site Groundwater Extraction System
Textron, Inc., Wheatfield, New York
Sample Dates: October 19 – 20, 2016

Dear Mr. Kummer:

Enclosed for your review are the semiannual discharge monitoring analytical results generated during the operation of Textron, Inc.'s (Textron) Off-Site Groundwater Extraction System located in Wheatfield, New York. The Off-Site Groundwater Extraction System was brought online in March 1993 and discharges to the Niagara County Sewer District (NCSD) sanitary sewer under Permit No. 16-07.

CB&I Environmental & Infrastructure, Inc., on behalf of Textron, collected grab samples of the discharge from the Extraction Well EW-6 location between October 19 and 20, 2016 in accordance with NCSD Permit No. 16-07. The field sampling sheets are included as Appendix A. The samples were kept on ice and hand delivered to ALS Environmental's laboratory in Rochester, New York, for analysis of volatile organic compounds via U.S. Environmental Protection Agency (USEPA) Method 624. All sampling and analytical activities were conducted in accordance with the requirements stated in NCSD Permit No. 16-07 and the April 20, 2016 addendum to Permit 16-07. The annual mercury sampling was completed during the April 2016 event.

Approximately 9,130,296 gallons of groundwater were extracted by the off-site system and discharged to the NCSD sanitary sewer between May 1, 2016 and November 1, 2016 as calculated through the sum of the individual well totalizers. The discharge flow volumes for the months of May, June, July, August, September, and October are detailed on Tables 1 through 6, respectively. As part of a pilot program with the New York State Department of Environmental Conservation (NYSDEC), Extraction Well EW-5 was taken off line and will remain inactive while the results of the recent groundwater sampling event are discussed with the NYSDEC.

Table 7 contains a summary of the semiannual discharge monitoring analytical data and an estimate of the discharge loading in comparison to the permitted maximum daily discharge loading limits. As

illustrated in Table 7, the estimated daily discharge loading during the monitoring period did not exceed the permitted limits and the system remains in compliance with pertinent permits and discharge requirements. The analytical results for the April 2016 sampling event are provided in Appendix B.

Please do not hesitate to contact me at 412.858.3977 should you have any questions regarding this project.

Sincerely,

Cecelia Byers

Cecelia Byers
Project Manager
CB&I Environmental & Infrastructure, Inc.

Please Reply To: Cecelia Byers
Telephone: 412.858.3977
E-Mail Address: cecelia.byers@cbi.com

CB:lmk
Attachments: Tables
Appendix A – Field Sampling Sheets
Appendix B – Analytical Report

cc: Greg Simpson – Textron, e-copy
CB&I – File

Tables

Table 1
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
May 1-May 31, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
05/01/16 08:03	27,904	18,922	12,957	0	59,783
05/02/16 08:03	27,866	19,051	12,947	0	59,864
05/03/16 08:03	27,888	19,086	13,046	0	**60,020**
05/04/16 08:03	27,876	19,108	12,651	0	59,635
05/05/16 08:03	27,815	19,120	12,169	0	59,104
05/06/16 08:03	27,752	19,060	11,806	0	58,618
05/07/16 08:03	27,721	19,048	11,487	0	58,256
05/08/16 08:03	27,669	19,048	11,464	0	58,181
05/09/16 08:03	27,616	18,903	11,232	0	57,751
05/10/16 08:03	27,558	18,993	11,112	0	57,663
05/11/16 08:03	27,499	18,973	10,498	0	56,970
05/12/16 08:03	27,442	18,942	10,267	0	56,651
05/13/16 08:03	27,394	18,895	10,828	0	57,117
05/14/16 08:03	27,373	18,806	11,366	0	57,545
05/15/16 08:03	27,309	18,808	11,674	0	57,791
05/16/16 08:03	27,268	18,801	11,872	0	57,941
05/17/16 08:03	27,205	18,805	11,819	0	57,829
05/18/16 08:03	27,159	18,839	11,633	0	57,631
05/19/16 08:03	27,113	18,836	11,399	0	57,348
05/20/16 08:03	27,040	18,842	11,197	0	57,079
05/21/16 08:03	27,023	18,864	10,812	0	56,699
05/22/16 08:03	26,967	18,853	10,644	0	56,464
05/23/16 08:03	26,889	18,873	10,570	0	56,332
05/24/16 08:03	26,832	18,868	10,235	0	55,935
05/25/16 08:03	26,767	18,882	9,772	0	55,421
05/26/16 08:03	26,752	18,905	9,881	0	55,538
05/27/16 08:03	26,760	18,898	9,510	0	55,168
05/28/16 08:03	26,691	18,885	9,675	0	55,251
05/29/16 08:03	26,623	18,744	9,607	0	54,974
05/30/16 08:03	26,546	18,858	9,525	0	54,929
05/31/16 08:00	26,407	18,808	9,439	0	54,654

Total Flow for May (gallons):	1,774,142
Maximum Daily Flow for May (gallons/day):	60,020
Average Daily Flow for May (gallons/day):	57,230

Table 2
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
June 1-June 30, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
06/01/16 08:00	26,402	18,841	9,484	0	54,727
06/02/16 08:00	26,329	18,836	9,372	0	54,537
06/03/16 08:00	26,306	18,822	9,192	0	54,320
06/04/16 08:00	26,316	18,770	8,924	0	54,010
06/05/16 08:00	26,253	18,636	9,047	0	53,936
06/06/16 08:00	25,773	18,575	9,069	0	53,417
06/07/16 08:03	25,215	19,698	9,006	0	53,919
06/08/16 08:03	25,636	21,512	9,369	0	56,517
06/09/16 08:03	25,578	21,748	9,553	0	56,879
06/10/16 08:03	25,522	21,625	9,764	0	**56,911**
06/11/16 08:03	25,472	21,612	9,652	0	56,736
06/12/16 08:03	25,434	21,579	9,209	0	56,222
06/13/16 08:14	25,549	21,681	8,944	0	56,174
06/14/16 08:00	25,044	21,256	8,563	0	54,863
06/15/16 08:03	25,316	21,556	8,601	0	55,473
06/16/16 08:03	25,220	21,516	8,432	0	55,168
06/17/16 08:03	25,184	21,486	8,353	0	55,023
06/18/16 08:03	25,152	21,493	8,152	0	54,797
06/19/16 08:03	25,121	21,422	8,232	0	54,775
06/20/16 08:03	25,050	21,477	8,204	0	54,731
06/21/16 08:03	25,013	21,447	8,123	0	54,583
06/22/16 08:03	24,989	21,438	8,242	0	54,669
06/23/16 08:14	25,119	21,535	8,068	0	54,722
06/24/16 08:03	24,666	21,197	7,803	0	53,666
06/25/16 08:08	24,977	21,289	7,867	0	54,133
06/26/16 08:03	24,777	21,157	7,684	0	53,618
06/27/16 08:03	24,825	21,215	7,470	0	53,510
06/28/16 08:03	24,762	21,133	7,437	0	53,332
06/29/16 08:03	24,743	21,156	7,376	0	53,275
06/30/16 08:03	24,723	21,122	7,482	0	53,327

Total Flow for June (gallons):	1,641,970
Maximum Daily Flow for June (gallons/day):	56,911
Average Daily Flow for June (gallons/day):	54,732

Table 3
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
July 1-July 31, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
07/01/16 08:03	24,665	21,047	7,461	0	53,173
07/02/16 08:13	24,788	21,214	7,481	0	53,483
07/03/16 08:03	24,421	20,923	7,326	0	52,670
07/04/16 08:03	24,559	21,061	7,370	0	52,990
07/05/16 08:03	24,528	21,031	7,530	0	53,089
07/06/16 08:00	24,461	20,949	7,440	0	52,850
07/07/16 08:03	24,551	21,050	7,342	0	52,943
07/08/16 08:03	24,461	21,015	7,253	0	52,729
07/09/16 08:03	24,440	20,996	7,238	0	52,674
07/10/16 08:08	24,589	21,060	7,208	0	52,857
07/11/16 08:03	24,457	20,990	7,244	0	52,691
07/12/16 08:03	24,487	21,037	7,183	0	52,707
07/13/16 08:03	24,422	21,034	7,128	0	52,584
07/14/16 08:03	24,358	21,050	7,062	0	52,470
07/15/16 08:03	24,335	21,106	6,989	0	52,430
07/16/16 08:08	24,376	21,219	6,885	0	52,480
07/17/16 08:03	24,174	21,226	7,074	0	52,474
07/18/16 08:03	24,254	21,470	7,289	0	53,013
07/19/16 08:03	24,298	21,379	7,207	0	52,884
07/20/16 08:03	24,313	21,370	6,607	0	52,290
07/21/16 08:03	24,332	21,350	6,379	0	52,061
07/22/16 08:03	24,375	21,327	6,471	0	52,173
07/23/16 08:03	24,379	21,343	6,587	0	52,309
07/24/16 08:03	24,253	21,337	6,536	0	52,126
07/25/16 08:03	24,190	21,312	6,678	0	52,180
07/26/16 08:03	24,278	21,346	7,732	0	53,356
07/27/16 08:03	24,300	21,268	8,164	0	53,732
07/28/16 08:03	24,305	21,231	8,285	0	53,821
07/29/16 08:03	24,301	21,266	8,433	0	**54,000**
07/30/16 08:03	24,275	21,250	8,258	0	53,783
07/31/16 08:03	24,234	21,210	8,095	0	53,539

Total Flow for July (gallons):	1,638,561
Maximum Daily Flow for July (gallons/day):	54,000
Average Daily Flow for July (gallons/day):	52,857

Table 4
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
August 1-August 30, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
08/01/16 08:03	24,264	21,270	8,774	0	54,308
08/02/16 08:03	24,292	21,190	9,059	0	54,541
08/03/16 08:03	24,330	21,148	9,305	0	54,783
08/04/16 08:03	24,333	21,177	9,562	0	55,072
08/05/16 08:03	24,330	21,045	9,760	0	55,135
08/06/16 08:00	24,254	21,076	9,823	0	55,153
08/07/16 08:03	24,336	21,167	9,783	0	**55,286**
08/08/16 08:00	24,147	20,966	9,251	0	54,364
08/09/16 08:03	24,224	20,924	9,123	0	54,271
08/10/16 08:03	24,100	20,924	8,892	0	53,916
08/11/16 08:03	24,063	20,985	8,977	0	54,025
08/12/16 08:10	24,139	21,114	9,072	0	54,325
08/13/16 08:03	23,882	20,818	8,974	0	53,674
08/14/16 08:03	23,963	20,751	8,993	0	53,707
08/15/16 08:03	23,899	20,557	9,015	0	53,471
08/16/16 08:03	23,833	20,523	8,894	0	53,250
08/17/16 08:03	23,810	20,560	8,997	0	53,367
08/18/16 08:03	23,764	20,438	8,899	0	53,101
08/19/16 08:03	23,671	20,478	9,070	0	53,219
08/20/16 08:03	23,594	20,472	9,189	0	53,255
08/21/16 08:03	23,528	20,511	9,380	0	53,419
08/22/16 08:19	23,827	20,656	10,310	0	54,793
08/23/16 08:03	23,251	20,110	10,012	0	53,373
08/24/16 08:03	23,423	20,485	9,608	0	53,516
08/25/16 08:03	23,325	20,645	9,882	0	53,852
08/26/16 08:03	23,190	20,643	9,493	0	53,326
08/27/16 08:03	23,108	20,679	9,625	0	53,412
08/28/16 08:03	23,044	20,524	9,792	0	53,360
08/29/16 08:03	22,989	20,478	9,536	0	53,003
08/30/16 08:03	22,940	20,476	9,267	0	52,683
08/31/16 08:03	22,879	20,466	8,282	0	51,627

Total Flow for August (gallons):	1,668,587
Maximum Daily Flow for August (gallons/day):	55,286
Average Daily Flow for August (gallons/day):	53,825

Table 5
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
September 1-September 30, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
09/01/16 08:03	22,844	20,479	8,105	0	51,428
09/02/16 08:03	22,682	20,539	8,216	0	**51,437**
09/03/16 08:03	22,567	20,567	8,087	0	51,221
09/04/16 08:03	22,449	20,607	8,052	0	51,108
09/05/16 08:03	22,326	20,569	8,050	0	50,945
09/06/16 08:03	22,236	20,653	7,964	0	50,853
09/07/16 08:03	22,137	20,641	7,843	0	50,621
09/08/16 08:03	22,099	19,581	7,709	0	49,389
09/09/16 08:03	22,118	17,053	7,101	0	46,272
09/10/16 08:03	22,043	15,959	6,629	0	44,631
09/11/16 08:03	21,942	14,824	6,420	0	43,186
09/12/16 08:03	21,893	14,124	6,698	0	42,715
09/13/16 08:03	21,828	13,341	5,712	0	40,881
09/14/16 08:03	21,700	12,601	5,926	0	40,227
09/15/16 08:03	21,593	12,015	6,260	0	39,868
09/16/16 08:03	21,393	11,595	6,465	0	39,453
09/17/16 08:03	21,224	11,247	6,594	0	39,065
09/18/16 08:03	20,983	12,943	6,763	0	40,689
09/19/16 08:03	20,698	16,876	6,783	0	44,357
09/20/16 08:19	20,760	16,708	7,029	0	44,497
09/21/16 08:03	20,225	16,346	6,663	0	43,234
09/22/16 08:03	20,307	16,135	6,721	0	43,163
09/23/16 08:03	20,143	16,000	6,210	0	42,353
09/24/16 08:03	20,035	15,891	5,285	0	41,211
09/25/16 08:03	19,960	15,802	4,532	0	40,294
09/26/16 08:03	20,104	16,774	0	0	36,878
09/27/16 08:03	20,062	16,708	194	0	36,964
09/28/16 08:03	19,753	14,544	6,644	0	40,941
09/29/16 08:03	19,541	14,238	6,844	0	40,623
09/30/16 08:03	19,416	14,158	6,847	0	40,421

Total Flow for September (gallons):	1,318,925
Maximum Daily Flow for September (gallons/day):	51,437
Average Daily Flow for September (gallons/day):	43,964

Table 6
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
October 1-October 31, 2016
Daily Flow Rates

Date/Time	EW-2 Flow Reading	EW-3 Flow Reading	EW-4 Flow Reading	EW-5 Flow Reading	Total Daily Flow (gal)
10/01/16 08:03	19,306	20,236	6,865	0	**46,407**
10/02/16 08:03	19,182	13,485	6,697	0	39,364
10/03/16 08:03	19,014	13,046	6,827	0	38,887
10/04/16 08:03	18,805	12,738	6,893	0	38,436
10/05/16 08:03	18,642	12,398	6,890	0	37,930
10/06/16 08:03	18,529	11,937	6,932	0	37,398
10/07/16 08:03	18,655	11,778	6,798	0	37,231
10/08/16 08:03	18,544	11,682	6,706	0	36,932
10/09/16 08:03	18,387	11,562	6,716	0	36,665
10/10/16 08:03	18,247	10,844	6,710	0	35,801
10/11/16 08:03	18,083	10,733	6,771	0	35,587
10/12/16 08:03	17,970	10,374	6,977	0	35,321
10/13/16 08:03	17,899	10,025	6,991	0	34,915
10/14/16 08:03	17,788	9,948	6,937	0	34,673
10/15/16 08:03	17,687	9,942	6,723	0	34,352
10/16/16 08:03	17,517	9,898	6,644	0	34,059
10/17/16 08:03	17,425	9,811	6,599	0	33,835
10/18/16 08:03	17,327	9,486	6,427	0	33,240
10/19/16 08:03	17,267	8,980	6,443	0	32,690
10/20/16 08:03	17,111	8,774	6,369	0	32,254
10/21/16 08:03	17,004	8,824	6,412	0	32,240
10/22/16 08:03	17,174	9,066	7,074	0	33,314
10/23/16 08:03	17,414	9,192	7,445	0	34,051
10/24/16 08:03	17,438	8,972	7,580	0	33,990
10/25/16 08:03	17,320	8,813	7,555	0	33,688
10/26/16 08:03	17,231	8,670	7,194	0	33,095
10/27/16 08:03	17,125	8,595	6,839	0	32,559
10/28/16 08:03	17,126	8,487	6,796	0	32,409
10/29/16 08:03	17,114	8,529	6,802	0	32,445
10/30/16 08:03	17,086	8,528	6,923	0	32,537
10/31/16 08:03	16,996	8,114	6,696	0	31,806

Total Flow for October (gallons):	1,088,111
Maximum Daily Flow for October (gallons/day):	46,407
Average Daily Flow for October (gallons/day):	35,100

Table 7
Niagara County Sewer Discharge Monitoring
Off-Site Groundwater Extraction System
Textron, Inc.
Wheatfield, New York
Permit Number: 16-07
October 19-20, 2016
Sample ID: MH No. 9-3

Parameter via USEPA Method 624	Reported Concentration (µg/L)	Total Flow (gallons per day)[(1)]	Discharge Loading Pounds per Day[(2)]	Maximum Daily Discharge Loading Limits
Trichloroethene	1.1	32,254	0.000296076	1.0
1,2-Dichloroethene (Total)	62.0	32,254	0.016687897	2.500
Vinyl Chloride	< 1.0	32,254	< 0.00026916	0.4000
Methylene Chloride	< 1.0	32,254	< 0.00026916	0.2

Notes:

Total Flow Limit: 200,000 gallons per day (gpd).

< - Not detected at indicated method detection limit.

For calculation purposes, "Not Detected" values are assigned the value of the method detection limit.

(1) Total flow during sampling period was based on the total flow measurements for the sampling date.

(2) Determined as follows: (Concentration in µg/L) x (flow rate in gpd) x (CF)

CF = Conversion Factor 8.3×10^{-9}

Appendix A

Field Sampling Sheets

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41139

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: TEXTRON WHEATFIELD	Project Number: 156045
Project Manager: CECELIA BYERS	Report CC:
Company/Address: CB&I 13 BRITISH AMERICAN BLVD. LATHAM, NY 12110	
Phone #: (518) 281-2034	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: KEVIN CROWLEY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
EW-6 GRAB 1		10/19/16	1125	W	3	X							COMPOSITE INTO ONE SAMPLE – MH No. 9-3
EW-6 GRAB 2		10/19/16	1715	W	3	X							
EW-6 GRAB 3		10/19/16	2330	W	3	X							
EW-6 GRAB 4		10/20/16	0715	W	3	X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ICE

SPECIAL INSTRUCTIONS/COMMENTS
Metals
COMPOSITE SAMPLES INTO 1 NAMED MH No. 9-3

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day STD

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____Yes ____No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature	Signature	Signature	Signature
Printed Name: KEVIN CROWLEY	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: CB&I	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 10/20/16 1420	Date/Time: 10/20/16 1440	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: October 19, 2016
Time: 1125
Field Personnel: K. Cronin B. Urban

Physical Condition of Location: Good
Ambient Temperature: ~63° F
Wind: 5 - 10 MPH
Precipitation: 0

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes: CLEAR

Sampler Signature: Ken Cron

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: October 19 , 2016
Time: 1715
Field Personnel: K. Cronin ~~B. Urban~~ KC

Physical Condition of Location: Good
Ambient Temperature: 68°F
Wind: 5 - 10 MPH
Precipitation: 0

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kyri Cr

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: October 19, 2016
Time: 2330
Field Personnel: K. Cronin ~~B. Urban~~ KC

Physical Condition of Location: Good
Ambient Temperature: 50°F
Wind: 5 -10 MPH
Precipitation: 0

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
NIAGARA COUNTY SEWER DISTRICT SAMPLING EVENT

Site Name: Textron, Wheatfield, NY
Project Number: 156045
NCSD Permit Number: 16-07
Sample Location: EW- 6
Date: October 20, 2016
Time: 0715
Field Personnel: K. Cronin B. Urban

Physical Condition of Location: Good
Ambient Temperature: 55°
Wind: 0 - 10 mph
Precipitation: showers

Sampling Method: Dedicated Poly Bailer

Sample Number: MH No. 9-3
Sample Description: Clear
Analysis Requested: EPA Method 624
Totalizer:

Notes:

Sampler Signature: Kevin Cro

Appendix B

Analytical Report

October 27, 2016 Service Request No:R1611184

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mosside Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory October 20, 2016
For your reference, these analyses have been assigned our service request number **R1611184.**

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
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

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

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: CB&I
Project: Textron Wheatfield/156045
Sample Matrix: Water

Service Request:R1611184
Date Received:10/20/16

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 II data deliverables, including results of QC samples analyzed from this delivery group. 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

Two water samples were received for analysis at ALS Environmental on 10/20/2016. 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.

Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

Approved by _____ Date 10/27/2016

SAMPLE DETECTION SUMMARY

CLIENT ID: MH No. 9-3	Lab ID: R1611184-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
1,1,1-Trichloroethane (TCA)	1.8		0.20	1.0	ug/L	624
1,1-Dichloroethane (1,1-DCA)	3.8		0.21	1.0	ug/L	624
Trichloroethene (TCE)	1.1		0.20	1.0	ug/L	624
1,2-Dichloroethene, Total	62			2.0	ug/L	624

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: CB&I **Service Request:**R1611184

Project: Textron Wheatfield/156045

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1611184-001	MH No. 9-3	10/20/2016	0715
R1611184-002	Trip Blank	10/20/2016	0715

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41139

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: TEXTRON WHEATFIELD	Project Number: 156045
Project Manager: CECELIA BYERS	Report C/C:
Company/Address: CB & I 13 BRITISH AMERICAN BLVD. LATHAM, NY 12110	
Phone #: (518) 281-2034	Email: CECELIA.BYERS@CBI.COM
Sampler's Signature:	Sampler's Printed Name: KEVIN CROWLEY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
EW-6 GRAB 1		10/16/16 KC	1125	W	3	X							COMPOSITE INTO ONE SAMPLE - MH No. 9-3
EW-6 GRAB 2		10/19/16	1715	W	3	X							
EW-6 GRAB 3		10/19/16	2330	W	3	X							
EW-6 GRAB 4		10/20/16	0715	W	3	X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ICE

SPECIAL INSTRUCTIONS/COMMENTS
Metals
COMPOSITE SAMPLES INTO 1 NAMED MH No. 9-3

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day STD

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	
Printed Name: KEVIN CROWLEY	Printed Name:	Printed Name:	Printed Name:	Printed Name:	
Firm: CB & I	Firm: ALS	Firm:	Firm: ALS	Firm:	
Date/Time: 10/20/16 1420	Date/Time: 10/20/16 1440	Date/Time:	Date/Time: 10/20/16 1643	Date/Time:	

R1611184 5
CB&I Environmental & Infrastructure
Textron Wheatfield

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

Project/Client CB+I Folder Number _____.

Cooler received on 10/20/16 by: DSW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N NA
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice Dry Ice Gel packs** present?	Y N	7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 10/20/16 Time: 1714 ID: IR#7 IR#8 From: Temp Blank Sample Bottle

Observed Temp (°C)	2.1	3.3					
Correction Factor (°C)	+0.0	+0.0					
Corrected Temp (°C)	2.1	3.3					
Within 0-6°C?	Y N	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

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed 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-007 by DSW on 10/20/16 at 1714
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 10-21-16 Time: 0920 by: TS

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

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: _____

Other Comments:

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

PC Secondary Review: DSW 10/24/16 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

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

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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
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).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs 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 http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

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.

Client: CB&I **Service Request:** R1611184
Project: Textron Wheatfield/156045

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
624	Water	1,2-Dichloroethene, Total

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045		

Sample Name:	MH No. 9-3	**Date Collected:**	10/20/16
Lab Code:	R1611184-001	**Date Received:**	10/20/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
624		DLIPANI

Sample Name:	Trip Blank	**Date Collected:**	10/20/16
Lab Code:	R1611184-002	**Date Received:**	10/20/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
624		DLIPANI

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

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Analytical Report

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045	**Date Collected:**	10/20/16 07:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	MH No. 9-3	**Units:**	ug/L
Lab Code:	R1611184-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**1.8**		1.0	1	10/21/16 13:18	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	10/21/16 13:18	
1,1,2-Trichloroethane	1.0	U	1.0	1	10/21/16 13:18	
1,1-Dichloroethane (1,1-DCA)	**3.8**		1.0	1	10/21/16 13:18	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	10/21/16 13:18	
1,2-Dichlorobenzene	1.0	U	1.0	1	10/21/16 13:18	
1,2-Dichloroethane	1.0	U	1.0	1	10/21/16 13:18	
1,2-Dichloropropane	1.0	U	1.0	1	10/21/16 13:18	
1,3-Dichlorobenzene	1.0	U	1.0	1	10/21/16 13:18	
1,4-Dichlorobenzene	1.0	U	1.0	1	10/21/16 13:18	
2-Chloroethyl Vinyl Ether	10	U	10	1	10/21/16 13:18	
Acrolein	10	U	10	1	10/21/16 13:18	
Acrylonitrile	10	U	10	1	10/21/16 13:18	
Benzene	1.0	U	1.0	1	10/21/16 13:18	
Bromodichloromethane	1.0	U	1.0	1	10/21/16 13:18	
Bromoform	1.0	U	1.0	1	10/21/16 13:18	
Bromomethane	1.0	U	1.0	1	10/21/16 13:18	
Carbon Tetrachloride	1.0	U	1.0	1	10/21/16 13:18	
Chlorobenzene	1.0	U	1.0	1	10/21/16 13:18	
Chloroethane	1.0	U	1.0	1	10/21/16 13:18	
Chloroform	1.0	U	1.0	1	10/21/16 13:18	
Chloromethane	1.0	U	1.0	1	10/21/16 13:18	
Chlorodibromomethane	1.0	U	1.0	1	10/21/16 13:18	
Methylene Chloride	1.0	U	1.0	1	10/21/16 13:18	
Ethylbenzene	1.0	U	1.0	1	10/21/16 13:18	
Tetrachloroethene (PCE)	1.0	U	1.0	1	10/21/16 13:18	
Toluene	1.0	U	1.0	1	10/21/16 13:18	
Trichloroethene (TCE)	**1.1**		1.0	1	10/21/16 13:18	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	10/21/16 13:18	
Vinyl Chloride	1.0	U	1.0	1	10/21/16 13:18	
cis-1,3-Dichloropropene	1.0	U	1.0	1	10/21/16 13:18	
trans-1,3-Dichloropropene	1.0	U	1.0	1	10/21/16 13:18	
1,2-Dichloroethene, Total	**62**		2.0	1	10/21/16 13:18	

Analytical Report

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045	**Date Collected:**	10/20/16 07:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	MH No. 9-3	**Units:**	ug/L
Lab Code:	R1611184-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	81 - 127	10/21/16 13:18	
4-Bromofluorobenzene	102	79 - 123	10/21/16 13:18	
Toluene-d8	107	83 - 120	10/21/16 13:18	

Analytical Report

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045	**Date Collected:**	10/20/16 07:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1611184-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	10/21/16 12:49	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	10/21/16 12:49	
1,1,2-Trichloroethane	1.0	U	1.0	1	10/21/16 12:49	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	10/21/16 12:49	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	10/21/16 12:49	
1,2-Dichlorobenzene	1.0	U	1.0	1	10/21/16 12:49	
1,2-Dichloroethane	1.0	U	1.0	1	10/21/16 12:49	
1,2-Dichloropropane	1.0	U	1.0	1	10/21/16 12:49	
1,3-Dichlorobenzene	1.0	U	1.0	1	10/21/16 12:49	
1,4-Dichlorobenzene	1.0	U	1.0	1	10/21/16 12:49	
2-Chloroethyl Vinyl Ether	10	U	10	1	10/21/16 12:49	
Acrolein	10	U	10	1	10/21/16 12:49	
Acrylonitrile	10	U	10	1	10/21/16 12:49	
Benzene	1.0	U	1.0	1	10/21/16 12:49	
Bromodichloromethane	1.0	U	1.0	1	10/21/16 12:49	
Bromoform	1.0	U	1.0	1	10/21/16 12:49	
Bromomethane	1.0	U	1.0	1	10/21/16 12:49	
Carbon Tetrachloride	1.0	U	1.0	1	10/21/16 12:49	
Chlorobenzene	1.0	U	1.0	1	10/21/16 12:49	
Chloroethane	1.0	U	1.0	1	10/21/16 12:49	
Chloroform	1.0	U	1.0	1	10/21/16 12:49	
Chloromethane	1.0	U	1.0	1	10/21/16 12:49	
Chlorodibromomethane	1.0	U	1.0	1	10/21/16 12:49	
Methylene Chloride	1.0	U	1.0	1	10/21/16 12:49	
Ethylbenzene	1.0	U	1.0	1	10/21/16 12:49	
Tetrachloroethene (PCE)	1.0	U	1.0	1	10/21/16 12:49	
Toluene	1.0	U	1.0	1	10/21/16 12:49	
Trichloroethene (TCE)	1.0	U	1.0	1	10/21/16 12:49	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	10/21/16 12:49	
Vinyl Chloride	1.0	U	1.0	1	10/21/16 12:49	
cis-1,3-Dichloropropene	1.0	U	1.0	1	10/21/16 12:49	
trans-1,3-Dichloropropene	1.0	U	1.0	1	10/21/16 12:49	
1,2-Dichloroethene, Total	2.0	U	2.0	1	10/21/16 12:49	

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045	**Date Collected:**	10/20/16 07:15
Sample Matrix:	Water	**Date Received:**	10/20/16 16:45
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1611184-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	81 - 127	10/21/16 12:49	
4-Bromofluorobenzene	103	79 - 123	10/21/16 12:49	
Toluene-d8	109	83 - 120	10/21/16 12:49	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

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Client: CB&I **Service Request:** R1611184

Project: Textron Wheatfield/156045

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Sample Name	Lab Code	1,2-Dichloroethane-d4 81 - 127	4-Bromofluorobenzene 79 - 123	Toluene-d8 83 - 120
MH No. 9-3	R1611184-001	106	102	107
Trip Blank	R1611184-002	105	103	109
Lab Control Sample	RQ1612903-03	106	106	107
Method Blank	RQ1612903-04	105	104	110

Analytical Report

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1612903-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	10/21/16 11:19	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	10/21/16 11:19	
1,1,2-Trichloroethane	1.0	U	1.0	1	10/21/16 11:19	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	10/21/16 11:19	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	10/21/16 11:19	
1,2-Dichlorobenzene	1.0	U	1.0	1	10/21/16 11:19	
1,2-Dichloroethane	1.0	U	1.0	1	10/21/16 11:19	
1,2-Dichloropropane	1.0	U	1.0	1	10/21/16 11:19	
1,3-Dichlorobenzene	1.0	U	1.0	1	10/21/16 11:19	
1,4-Dichlorobenzene	1.0	U	1.0	1	10/21/16 11:19	
2-Chloroethyl Vinyl Ether	10	U	10	1	10/21/16 11:19	
Acrolein	10	U	10	1	10/21/16 11:19	
Acrylonitrile	10	U	10	1	10/21/16 11:19	
Benzene	1.0	U	1.0	1	10/21/16 11:19	
Bromodichloromethane	1.0	U	1.0	1	10/21/16 11:19	
Bromoform	1.0	U	1.0	1	10/21/16 11:19	
Bromomethane	1.0	U	1.0	1	10/21/16 11:19	
Carbon Tetrachloride	1.0	U	1.0	1	10/21/16 11:19	
Chlorobenzene	1.0	U	1.0	1	10/21/16 11:19	
Chloroethane	1.0	U	1.0	1	10/21/16 11:19	
Chloroform	1.0	U	1.0	1	10/21/16 11:19	
Chloromethane	1.0	U	1.0	1	10/21/16 11:19	
Chlorodibromomethane	1.0	U	1.0	1	10/21/16 11:19	
Methylene Chloride	1.0	U	1.0	1	10/21/16 11:19	
Ethylbenzene	1.0	U	1.0	1	10/21/16 11:19	
Tetrachloroethene (PCE)	1.0	U	1.0	1	10/21/16 11:19	
Toluene	1.0	U	1.0	1	10/21/16 11:19	
Trichloroethene (TCE)	1.0	U	1.0	1	10/21/16 11:19	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	10/21/16 11:19	
Vinyl Chloride	1.0	U	1.0	1	10/21/16 11:19	
cis-1,3-Dichloropropene	1.0	U	1.0	1	10/21/16 11:19	
trans-1,3-Dichloropropene	1.0	U	1.0	1	10/21/16 11:19	
1,2-Dichloroethene, Total	2.0	U	2.0	1	10/21/16 11:19	

Client:	CB&I	**Service Request:**	R1611184
Project:	Textron Wheatfield/156045	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1612903-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

Analysis Method: 624

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	81 - 127	10/21/16 11:19	
4-Bromofluorobenzene	104	79 - 123	10/21/16 11:19	
Toluene-d8	110	83 - 120	10/21/16 11:19	

Client: CB&I
Project: Textron Wheatfield/156045
Sample Matrix: Water

Service Request: R1611184
Date Analyzed: 10/21/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS with 3 Day Holding Time for Acrolein, Unpreserved

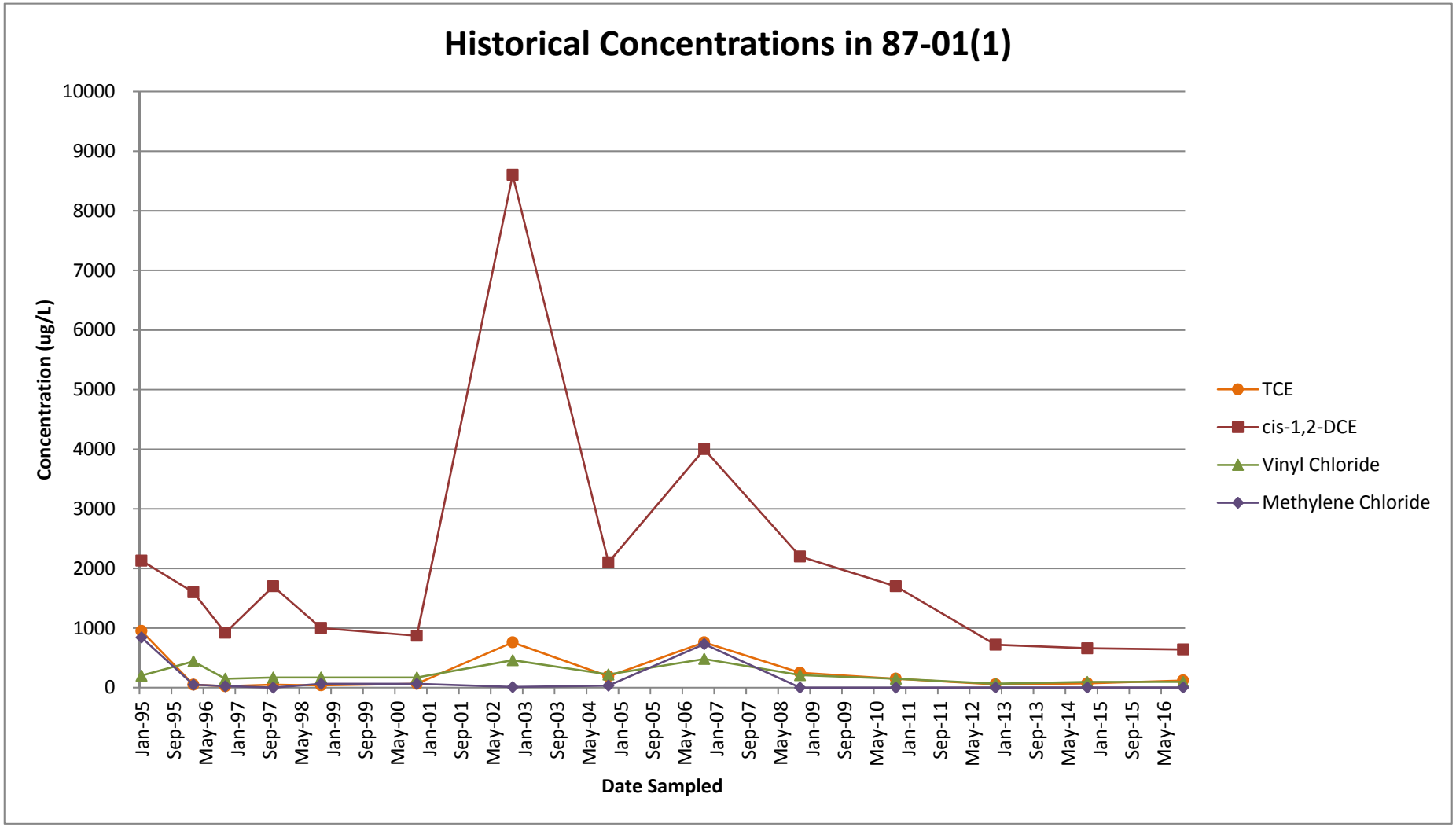
Units:ug/L
Basis:NA

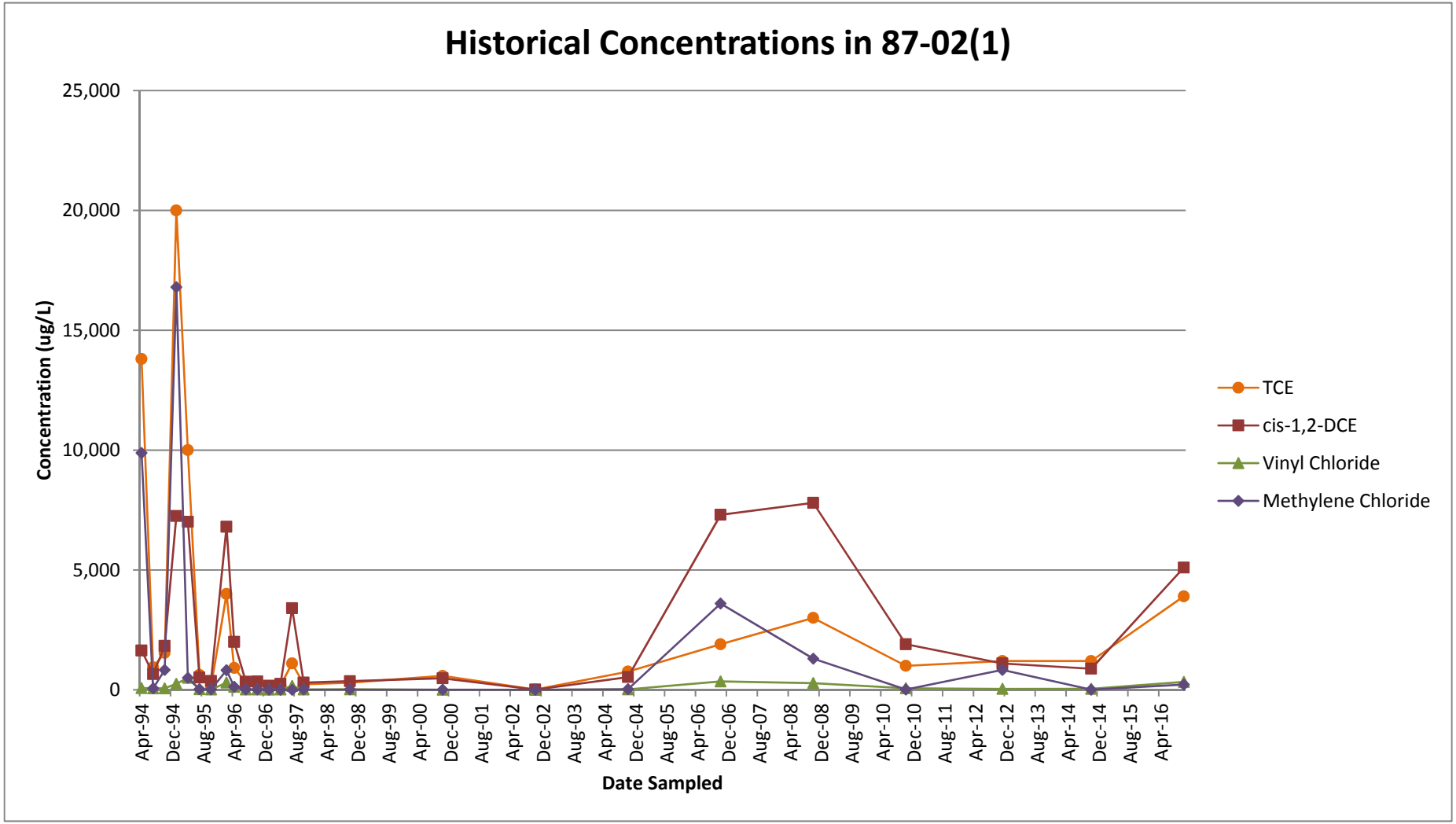
Lab Control Sample
RQ1612903-03

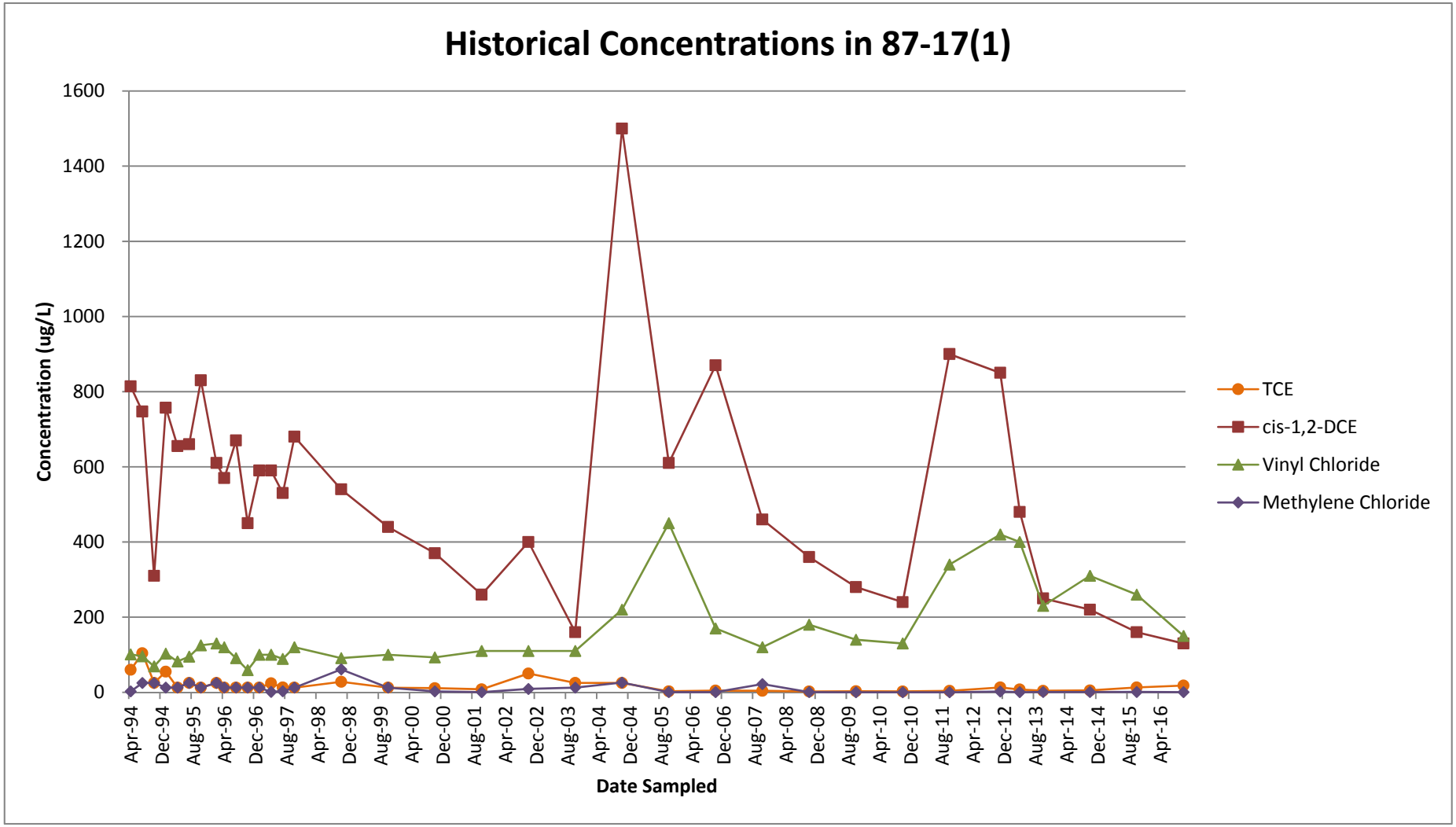
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	624	23.3	20.0	117	52-162
1,1,2,2-Tetrachloroethane	624	19.8	20.0	99	46-157
1,1,2-Trichloroethane	624	22.0	20.0	110	52-150
1,1-Dichloroethane (1,1-DCA)	624	24.1	20.0	120	59-155
1,1-Dichloroethene (1,1-DCE)	624	24.0	20.0	120	10-234
1,2-Dichlorobenzene	624	20.3	20.0	101	18-190
1,2-Dichloroethane	624	21.3	20.0	107	49-155
1,2-Dichloropropane	624	20.8	20.0	104	10-210
1,3-Dichlorobenzene	624	20.1	20.0	100	59-156
1,4-Dichlorobenzene	624	20.1	20.0	101	18-190
2-Chloroethyl Vinyl Ether	624	14.9	20.0	74	10-305
Acrolein	624	45.3	40.0	113	10-186
Acrylonitrile	624	106	100	106	70-130
Benzene	624	21.3	20.0	107	37-151
Bromodichloromethane	624	21.2	20.0	106	35-155
Bromoform	624	18.8	20.0	94	45-169
Bromomethane	624	23.6	20.0	118	10-242
Carbon Tetrachloride	624	21.6	20.0	108	70-140
Chlorobenzene	624	20.7	20.0	103	37-160
Chloroethane	624	20.9	20.0	104	14-230
Chloroform	624	22.2	20.0	111	51-138
Chloromethane	624	19.8	20.0	99	10-273
Chlorodibromomethane	624	19.5	20.0	97	53-149
Methylene Chloride	624	21.8	20.0	109	10-221
Ethylbenzene	624	20.2	20.0	101	37-162
Tetrachloroethene (PCE)	624	19.8	20.0	99	64-148
Toluene	624	19.7	20.0	98	47-150
Trichloroethene (TCE)	624	23.1	20.0	115	71-157
Trichlorofluoromethane (CFC 11)	624	24.4	20.0	122	17-181
Vinyl Chloride	624	21.6	20.0	108	10-251
cis-1,3-Dichloropropene	624	20.8	20.0	104	10-227
trans-1,3-Dichloropropene	624	19.5	20.0	97	17-183

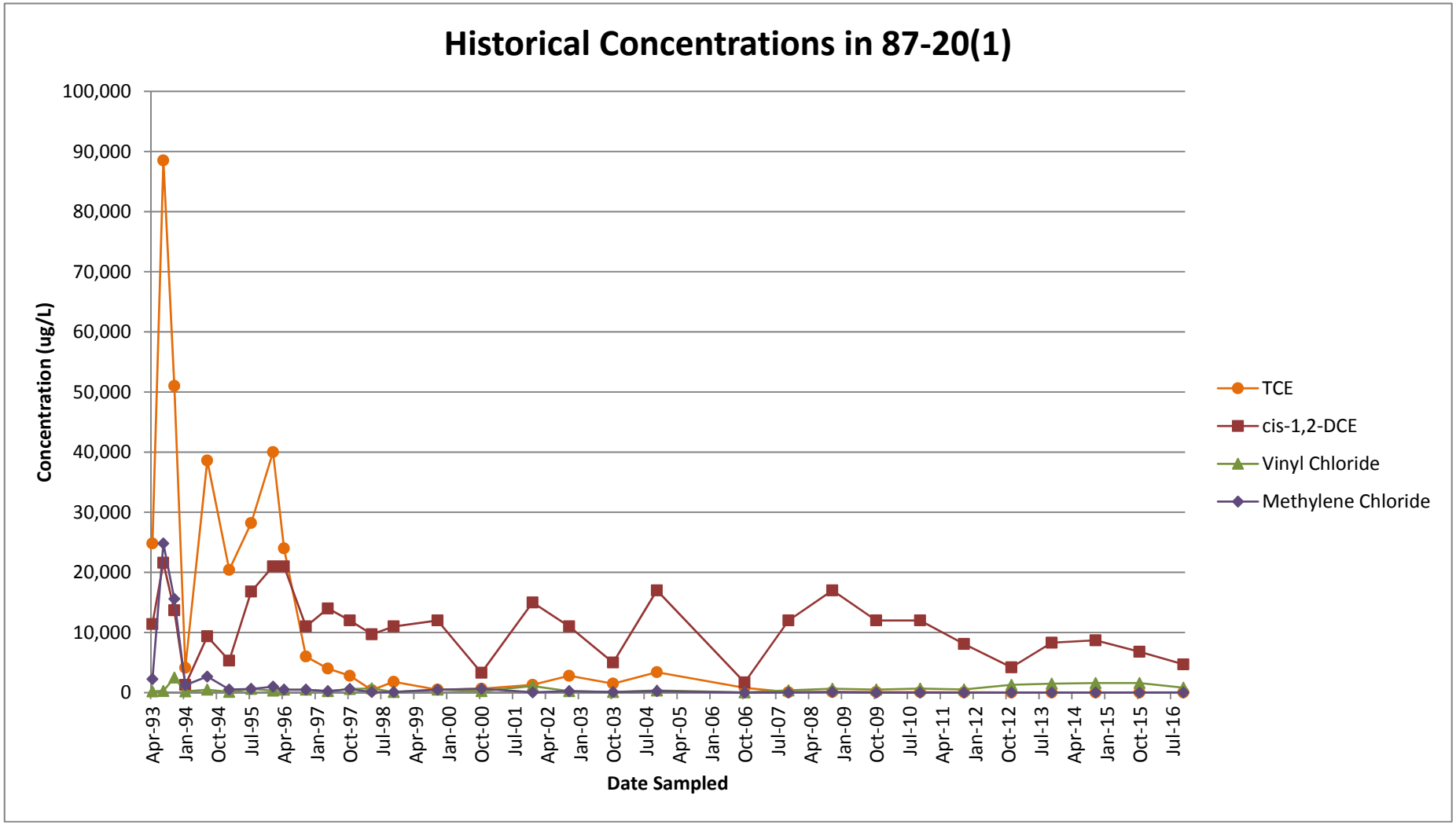
Appendix H

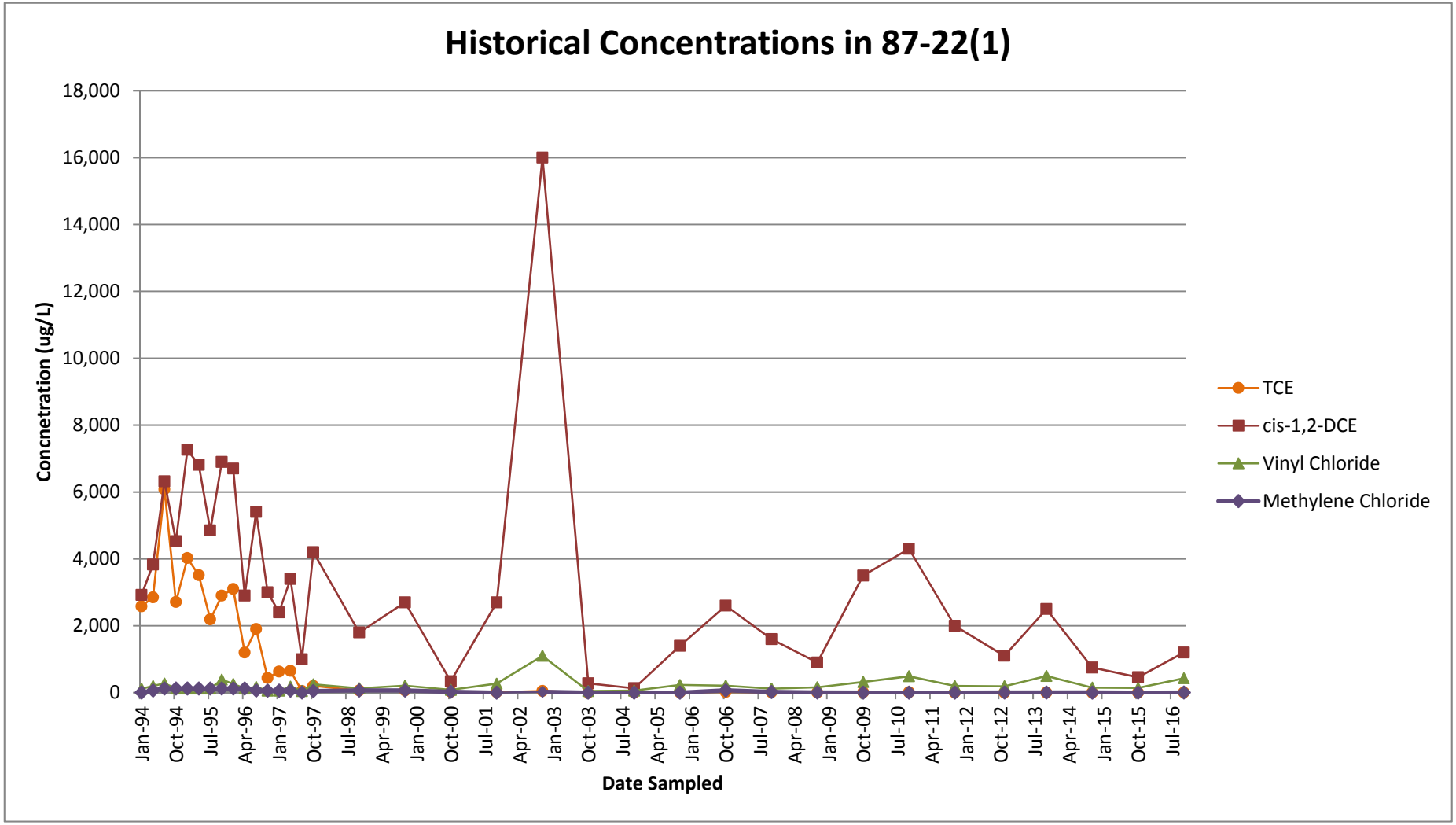
Historical VOC Concentration Graphs

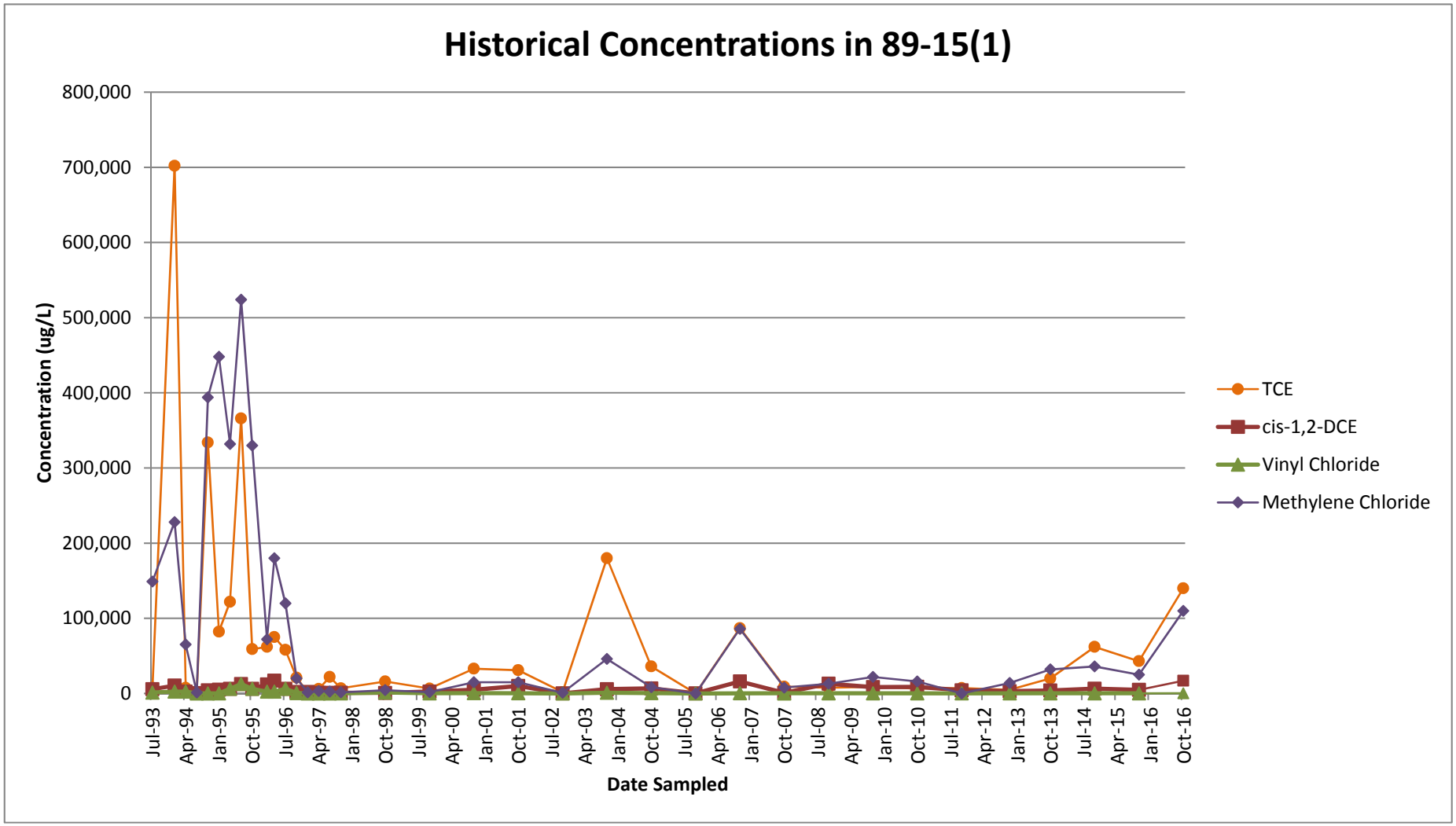

Historical Concentrations in 87-01(1)
Concentration (ug/L)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Jan-95
Sep-95
May-96
Jan-97
Sep-97
May-98
Jan-99
Sep-99
May-00
Jan-01
Sep-01
May-02
Jan-03
Sep-03
May-04
Jan-05
Sep-05
May-06
Jan-07
Sep-07
May-08
Jan-09
Sep-09
May-10
Jan-11
Sep-11
May-12
Jan-13
Sep-13
May-14
Jan-15
Sep-15
May-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride

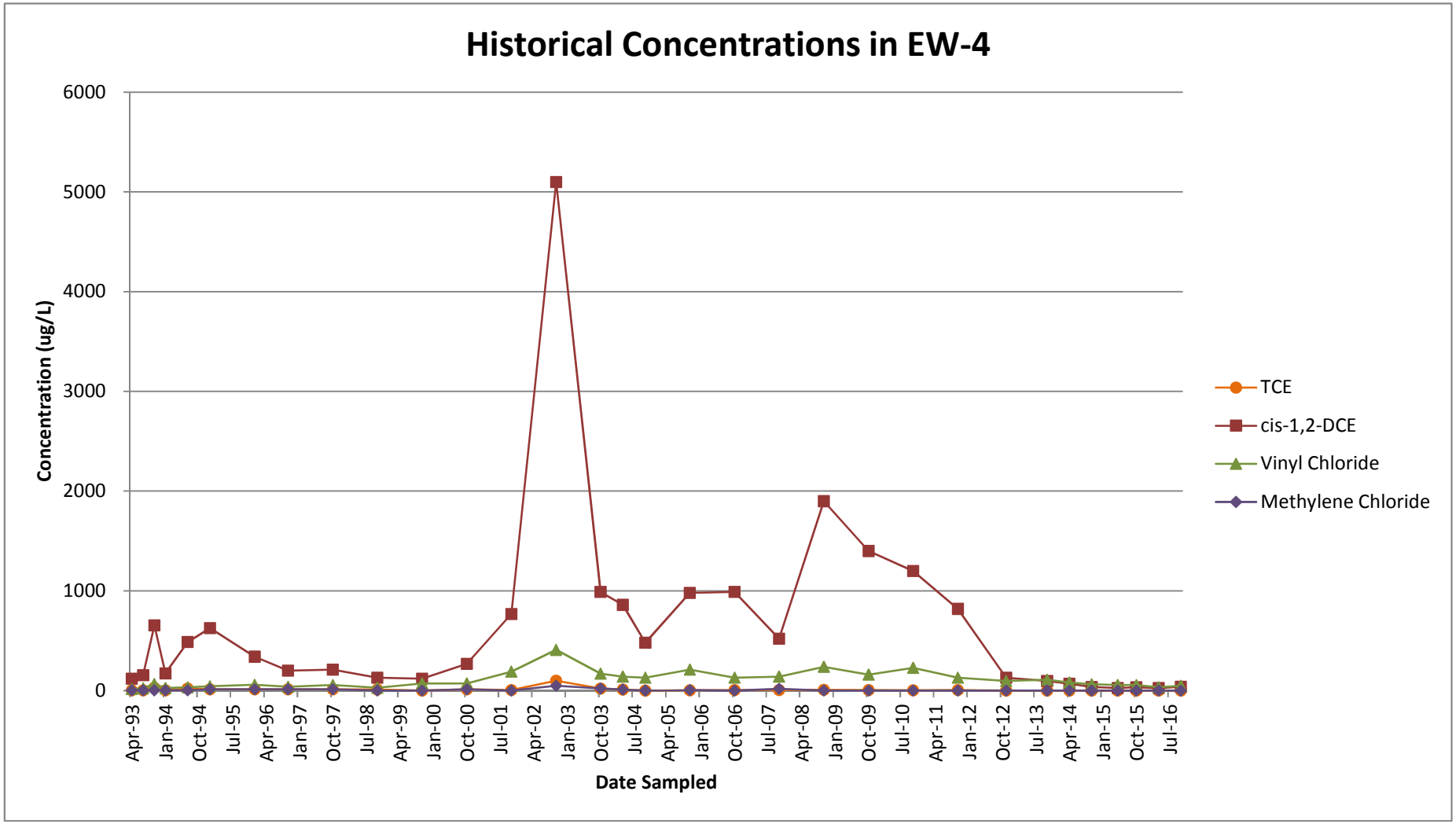

Historical Concentrations in 87-02(1)
Concentration (ug/L)
25,000
20,000
15,000
10,000
5,000
0
Apr-94
Dec-94
Aug-95
Apr-96
Dec-96
Aug-97
Apr-98
Dec-98
Aug-99
Apr-00
Dec-00
Aug-01
Apr-02
Dec-02
Aug-03
Apr-04
Dec-04
Aug-05
Apr-06
Dec-06
Aug-07
Apr-08
Dec-08
Aug-09
Apr-10
Dec-10
Aug-11
Apr-12
Dec-12
Aug-13
Apr-14
Dec-14
Aug-15
Apr-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride

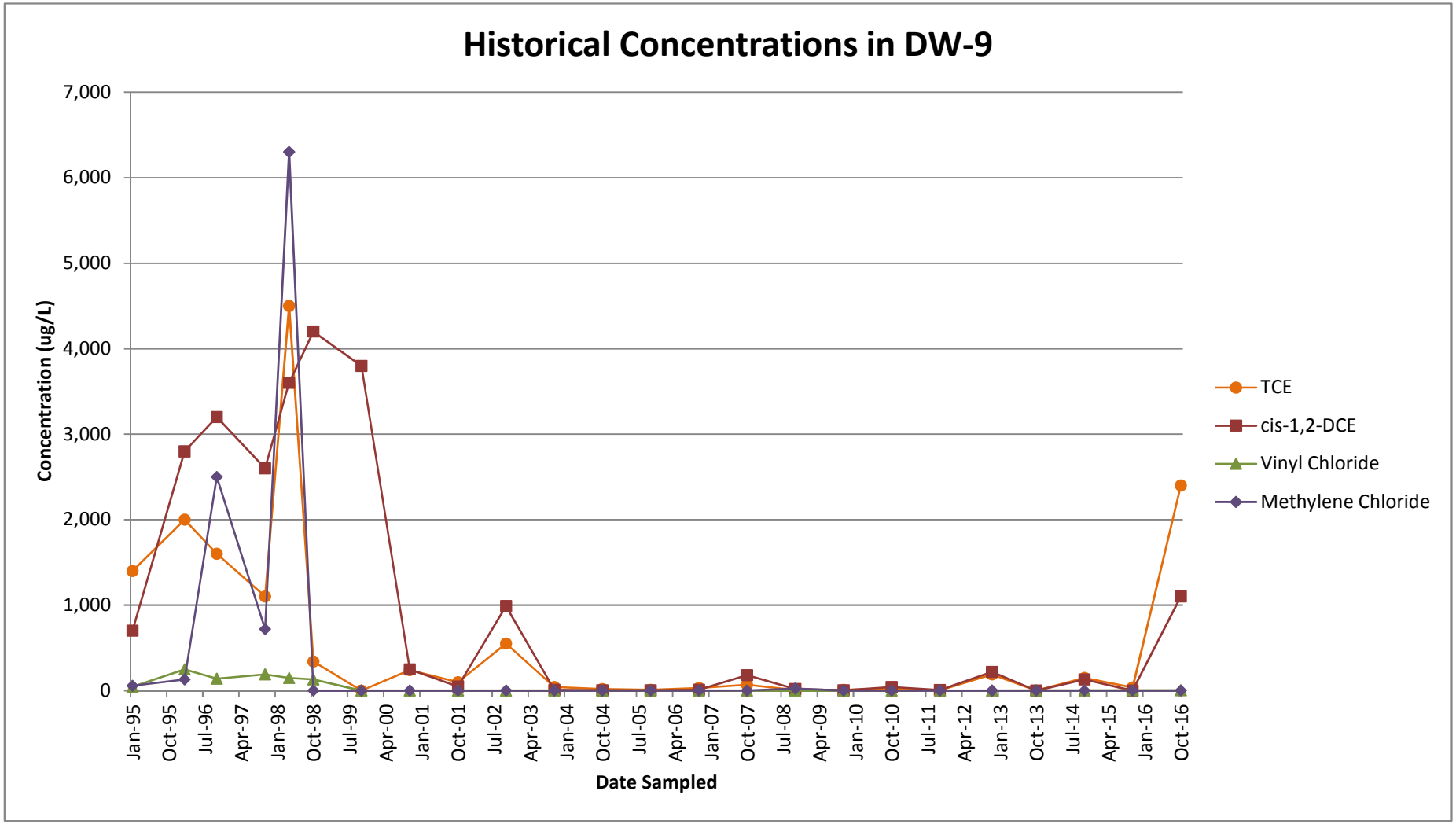

Historical Concentrations in 87-17(1)
Concentration (ug/L)
1600
1400
1200
1000
800
600
400
200
0
Apr-94
Dec-94
Aug-95
Apr-96
Dec-96
Aug-97
Apr-98
Dec-98
Aug-99
Apr-00
Dec-00
Aug-01
Apr-02
Dec-02
Aug-03
Apr-04
Dec-04
Aug-05
Apr-06
Dec-06
Aug-07
Apr-08
Dec-08
Aug-09
Apr-10
Dec-10
Aug-11
Apr-12
Dec-12
Aug-13
Apr-14
Dec-14
Aug-15
Apr-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride


Historical Concentrations in 87-20(1)
Concentration (ug/L)
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
Apr-93
Jan-94
Oct-94
Jul-95
Apr-96
Jan-97
Oct-97
Jul-98
Apr-99
Jan-00
Oct-00
Jul-01
Apr-02
Jan-03
Oct-03
Jul-04
Apr-05
Jan-06
Oct-06
Jul-07
Apr-08
Jan-09
Oct-09
Jul-10
Apr-11
Jan-12
Oct-12
Jul-13
Apr-14
Jan-15
Oct-15
Jul-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride


Historical Concentrations in 87-22(1)
Concnetration (ug/L)
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jan-94
Oct-94
Jul-95
Apr-96
Jan-97
Oct-97
Jul-98
Apr-99
Jan-00
Oct-00
Jul-01
Apr-02
Jan-03
Oct-03
Jul-04
Apr-05
Jan-06
Oct-06
Jul-07
Apr-08
Jan-09
Oct-09
Jul-10
Apr-11
Jan-12
Oct-12
Jul-13
Apr-14
Jan-15
Oct-15
Jul-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride


Historical Concentrations in 89-15(1)
Concentration (ug/L)
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Jul-93
Apr-94
Jan-95
Oct-95
Jul-96
Apr-97
Jan-98
Oct-98
Jul-99
Apr-00
Jan-01
Oct-01
Jul-02
Apr-03
Jan-04
Oct-04
Jul-05
Apr-06
Jan-07
Oct-07
Jul-08
Apr-09
Jan-10
Oct-10
Jul-11
Apr-12
Jan-13
Oct-13
Jul-14
Apr-15
Jan-16
Oct-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride


Historical Concentrations in EW-4
Concentration (ug/L)
6000
5000
4000
3000
2000
1000
0
Apr-93
Jan-94
Oct-94
Jul-95
Apr-96
Jan-97
Oct-97
Jul-98
Apr-99
Jan-00
Oct-00
Jul-01
Apr-02
Jan-03
Oct-03
Jul-04
Apr-05
Jan-06
Oct-06
Jul-07
Apr-08
Jan-09
Oct-09
Jul-10
Apr-11
Jan-12
Oct-12
Jul-13
Apr-14
Jan-15
Oct-15
Jul-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride


Historical Concentrations in DW-9
Concentration (ug/L)
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan-95
Oct-95
Jul-96
Apr-97
Jan-98
Oct-98
Jul-99
Apr-00
Jan-01
Oct-01
Jul-02
Apr-03
Jan-04
Oct-04
Jul-05
Apr-06
Jan-07
Oct-07
Jul-08
Apr-09
Jan-10
Oct-10
Jul-11
Apr-12
Jan-13
Oct-13
Jul-14
Apr-15
Jan-16
Oct-16
Date Sampled
TCE
cis-1,2-DCE
Vinyl Chloride
Methylene Chloride