



2019 REMEDIAL ACTION PROGRESS REPORT

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



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January 2020

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INTRODUCTION

On behalf of Dover Corporation (Dover), Verina Engineering, PC has prepared this Remedial Action Progress Report (RAPR) for the remedial activities implemented in 2019 at the former Binghamton Plastics site in Binghamton, Broome County, New York, New York State Department of Conservation (NYSDEC) Site No. 7-04-024.

The activities implemented in 2019 include:

- Semi-annual groundwater monitoring and sampling; and,
- Monthly monitoring of the Active Sub-Slab Depressurization (ASD) System.

The project was implemented in accordance with the executed Order on Consent between Dover and the New York State of Environmental Conservation (NYSDEC), dated January 19, 2001, and the NYSDEC-approved Site Management Plan (SMP), dated April 14, 2017.

SITE HISTORY AND BACKGROUND

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

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

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

REMEDIAL ACTIVITIES

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

groundwater. Groundwater that drained from the excavated perched-zone soil during the remedial action or that accumulated in the open excavations was removed for offsite treatment and disposal.

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

Pursuant to approval from NYSDEC in its letter dated November 14, 2008, the ISCO injection program was initiated in June 2009 to further reduce the residual COCs in groundwater. The injection of sodium permanganate solution has been conducted in the upgradient monitoring wells (MW-9, MW-10, and MW-17) as well as in the source area (MW-8, MW-11, and MW-16). The injection frequency was reduced from quarterly to semi-annual basis in 2011, but returned to a quarterly injection schedule in 2012. Additionally, one direct-push injection event within the plume area was conducted at the site in May 2013. Based upon a comparison of the March and September 2017 groundwater data, elevated levels of COCs in groundwater were still observed within several site monitoring wells and therefore VERINA continued the quarterly manual injection schedule in 2018. With NYSDEC's approval, the sodium permanganate injections were suspended in 2019 due to the decreases observed in COC concentrations since the remedial action was implemented in June 2009. Since June 2009, a total of 36 rounds of sodium permanganate manual injections have been conducted at the site.

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

The Declaration of Covenants and Restrictions for the property was recorded with the Broome County, State of New York on February 24, 2017. The SMP, dated April 14, 2017, was submitted to NYSDEC. The NYSDEC subsequently used an e-mail notification as the approval of the SMP on December 4, 2019.

2019 GROUNDWATER MONITORING PROGRAM

GROUNDWATER MONITORING AND SAMPLING

Groundwater monitoring events were conducted semi-annually in 2019 to monitor site groundwater conditions and to assess the effectiveness of the prior ISCO injection program to remediate COCs at the site. The first groundwater sampling event was conducted between March 20 and 22, 2019 and the second groundwater sampling event was conducted on September 23, 2019.

Prior to each sampling event, the depth to groundwater was measured from all accessible monitoring wells (DMW-3, DMW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17, and TMP-A) on site and recorded on VERINA's groundwater gauging logs in order to establish groundwater elevations and groundwater flow direction at the site. Water level measurements were taken with a Solinst® brand laser-marked water level meter equipped with a stainless steel probe and measuring tape graduated in units of 0.01 foot. Groundwater elevation measurements from March 2019 and September 2019 are summarized in Tables 1 and 2, respectively. A map showing the perched groundwater elevation isocontours and groundwater flow direction is included as Figure 3 for the March 2019 event and as Figure 4 for the September 2019 event.

After well gauging was completed, select monitoring wells including MW-8, MW-9, MW-10, MW-16, and MW-17 were sampled in March 2019. In addition to these wells, monitoring wells DMW-3, MW-11, and MW-13 were also included during the September 2019 sampling event. TMP-A was not sampled during the September 2019 event as the well was found to be in disrepair upon inspection. Groundwater sampling was conducted using low-flow methodology and groundwater quality parameters, including pH, dissolved oxygen (DO), conductivity, temperature, turbidity, and oxidation-reduction potential (ORP), were measured via a YSI® 600XL or 556 water quality instrument coupled with a flow-through cell. In addition to measuring field parameters, the purged groundwater from each well was visually inspected for the presence of a purple or pink color, which would indicate the presence of un-reacted permanganate within the groundwater. A change in color of the water in the wells from dark purple to light pink (i.e., > visual concentration of 0.5 milligrams per liter [mg/L]) or clear (i.e., < visual concentration of 0.5 mg/L) indicates that the permanganate would have been consumed, diluted, or transported with groundwater.

Groundwater samples from monitoring wells that exhibited residual permanganate, as indicated by a pink or purple color of the purge water, were collected in laboratory-provided unpreserved vials pre-charged in the field with sodium thiosulfate. The sodium thiosulfate was added to neutralize the residual permanganate in the groundwater sample as it may influence the performance of the laboratory's analytical instruments. During the March 2019 sampling event, monitoring wells MW-8, MW-9, MW-10, MW-16, and MW-17 exhibited residual permanganate and monitoring wells MW-8, MW-11, MW-16, and MW-17 exhibited residual permanganate during the September 2019 sampling event. These wells were analyzed for residual sodium permanganate concentration in the field subsequent to site-specific parameter list (SSPL) VOC sampling using a Hach® DR890 or DR2800

colorimeter. A summary of the residual sodium permanganate groundwater concentrations is presented in Table 3.

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

GROUNDWATER ELEVATION AND FLOW DIRECTIONS

The groundwater elevation data from March and September 2019 are summarized in Tables 1 and 2, respectively. The groundwater elevation contour map for the March and September 2019 events are provided as Figure 3 and Figure 4, respectively.

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

GROUNDWATER MONITORING ANALYTICAL RESULTS

The groundwater analytical data for the March and September 2019 monitoring events are summarized in Tables 4 and 5, respectively. The historical distribution of SSPL VOCs, including pre-full scale ISCO injection initiation sampling results, is summarized in Table 6. An isoconcentration map comparing the total molar concentration of PCE and its daughter products as chloride equivalents from June 2009, prior to the start of injection at the site, biennially through September 2019 is presented as Figure 5. A graphical depiction of the decreasing trend of TCE concentrations, the site contaminant of concern with the highest observed historic concentrations, is presented as Figure 6. The groundwater sampling field logs for both the March and September 2019 sampling events are provided in Appendix A. The complete laboratory data reports for the groundwater sampling events are presented in Appendix B. The electronic data deliverables (EDDs) for each groundwater sampling event have previously been submitted to the NYSDEC and are also included under separate submission.

Based on the information collected during 2019 semi-annual groundwater monitoring events, VERINA makes the following conclusions:

- In comparing the September 2019 to the June 2009 total molar concentration of PCE and its daughter products, the plume size of the highest molar concentration as chloride equivalents

observed within the source zone near MW-8 and MW-16 has decreased significantly. This indicates an overall COC mass reduction (as represented by both PCE and daughter products) within the perched groundwater beneath the site. Approximately 98% mass reduction of COCs in groundwater was estimated since the ISCO injection was implemented in 2009.

- Contaminant concentrations within the source zone continue to decline since the initiation of ISCO injections.
- The plume of PCE and its daughter products continue to be contained within the perched groundwater on site.
- Several VOCs were detected above their respective NYSDEC groundwater quality standards in wells MW-8, MW-9, MW-10 and MW-16 during the March 2019 sampling event. These VOCs consist of 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA and/or TCE.
- During the September 2019 sampling event, 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA and/or TCE were detected above their respective NYSDEC groundwater quality standards in wells MW-8, MW-9, MW-10, MW-16 and/or MW-17.
- PCE was not detected above its NYSDEC groundwater quality standard in any of the monitoring wells sampled in 2019.

ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) SYSTEM OM&M

ASD SYSTEM INSPECTIONS

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

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

During 2019, monthly inspections of the ASD system were implemented including observing and documenting the conditions of ASD system components and any structural changes or modifications to the building, as well as recording the pressure gauge measurements at each of the four vapor extraction points. Monthly ASD inspection logs are included as Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings and conclusions of the groundwater monitoring program, field observations and ASD system OM&M results, VERINA has drawn the following conclusions:

- Based on the analytical results of the historic and current groundwater sampling events, COCs have not been detected in monitoring wells DMW-3, TMP-A, MW-11, MW-13, and MW-14 during several of the recent sampling events. This data supports the conclusion that the COC plume is contained at the site.
- A comparison of the 2019 groundwater sampling results to the historical sampling results indicates that the total VOC mass in the groundwater at the site has decreased by 98%. The overall total mass of COCs in groundwater has decreased significantly since the remedial action was implemented in June 2009.
- The 2019 groundwater monitoring results indicated several COCs still exceed their respective NYSDEC groundwater quality standards. Those COCs whose detected concentrations are greater than one order of magnitude of their respective NYSDEC groundwater quality standards include cis-1,2-DCE in wells MW-8 and MW-16 during the March 2019 sampling event as well as in well MW-17 during the September 2019 groundwater sampling event.
- During the September groundwater sampling event, two wells at the site were found to be not accessible. Well MW-12 appears to have been paved over sometime between March and September 2019, while TMP-A and MW-7 were observed to have been damaged.

Based on these conclusions, we recommend the following:

- For well MW-12, VERINA recommends considering this well to have been abandoned and to be removed from the future groundwater monitoring program. VERINA also recommends abandoning MW-7 since this well is not included in the groundwater monitoring program and has historically been non-detect for site COCs.
- For well TMP-A, VERINA recommends repairing this well and including it in the future groundwater monitoring program.
- VERINA will continue the semi-annual groundwater sampling program in March and September 2020. In March 2020, the wells to be sampled will include MW-8, MW-9, MW-10, MW-16, and MW-17. In addition to these wells, monitoring wells DMW-3, TMP-A, MW-11, and MW-13 will also be sampled during the September 2020 event, as shown on Table 7.
- Based upon the analytical results of the semi-annual groundwater sampling program in 2019, VERINA does not recommend reinstating the ISCO injections at the site. VERINA will continue to

assess the groundwater data in 2020 to determine if additional injections may be needed in the future.

- VERINA will continue monthly inspections of the ASD system in 2020.

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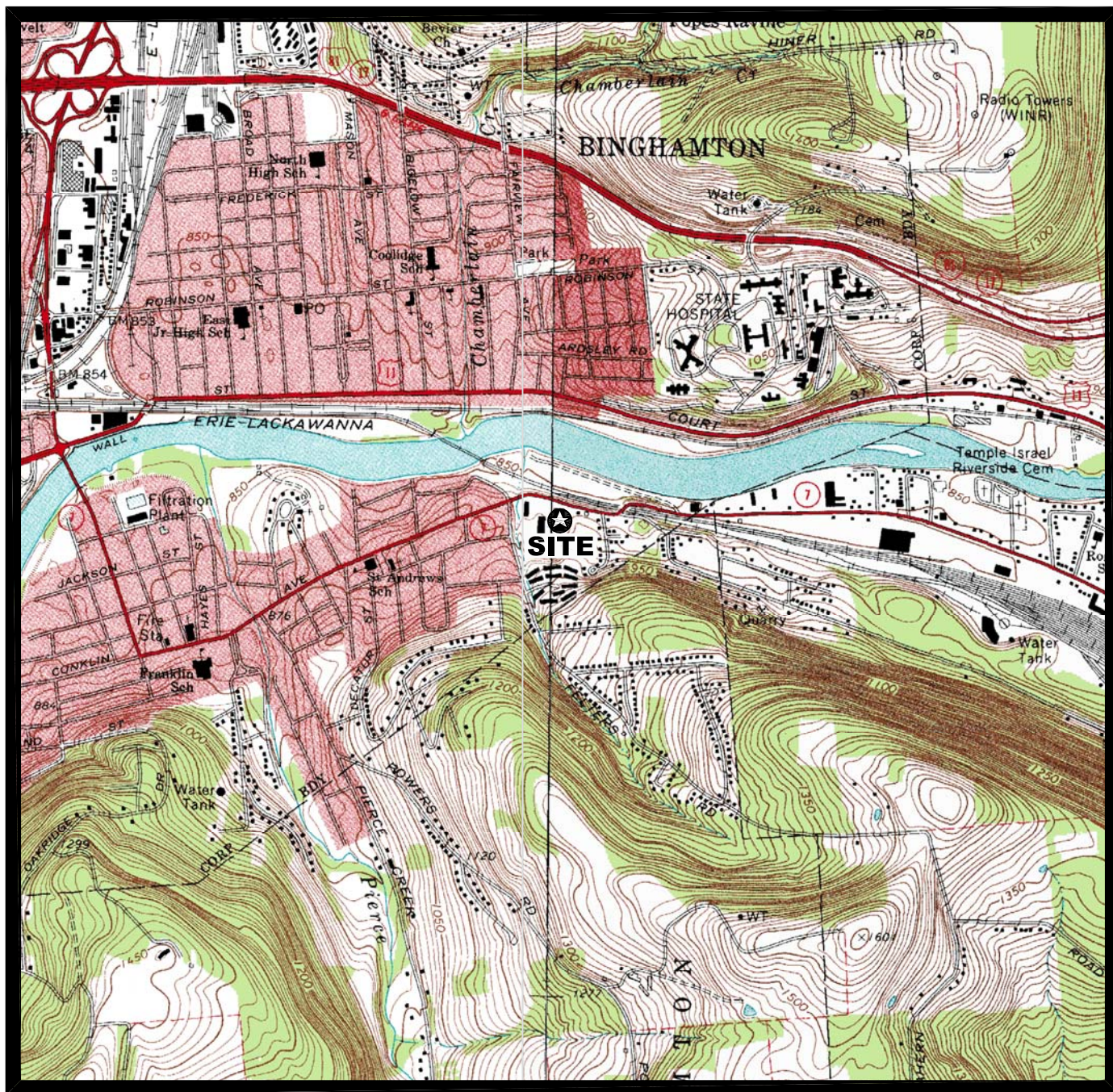
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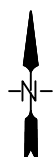
Verina Engineering, P.C. (VERINA). January 2018. *2017 Remedial Action Progress Report.*

Verina Engineering, P.C. (VERINA). January 2019. *2018 Remedial Action Progress Report.*

Figures



WEST BINGHAMTON AND
EAST BINGHAMTON QUADRANGLES
7.5-MINUTE SERIES

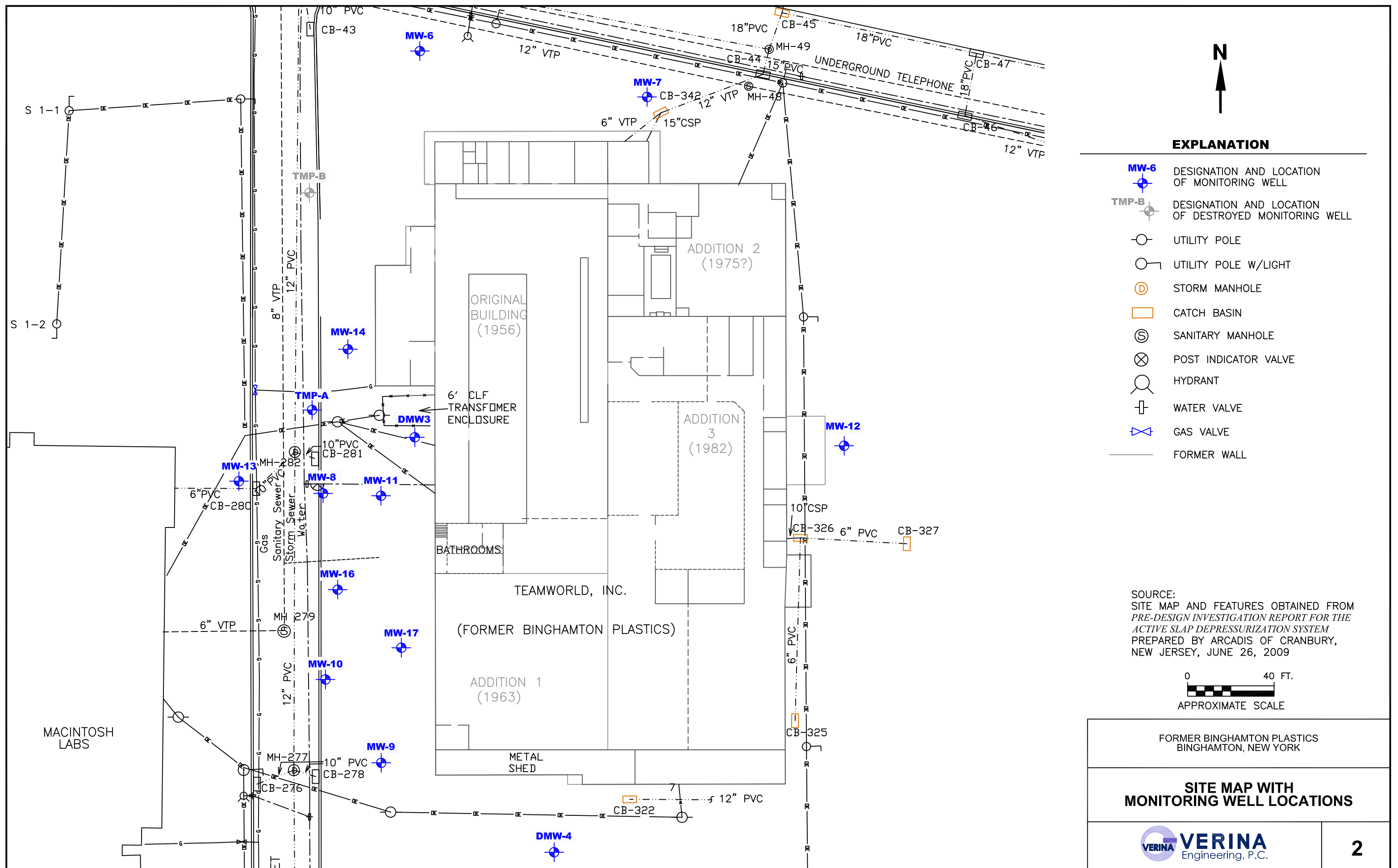


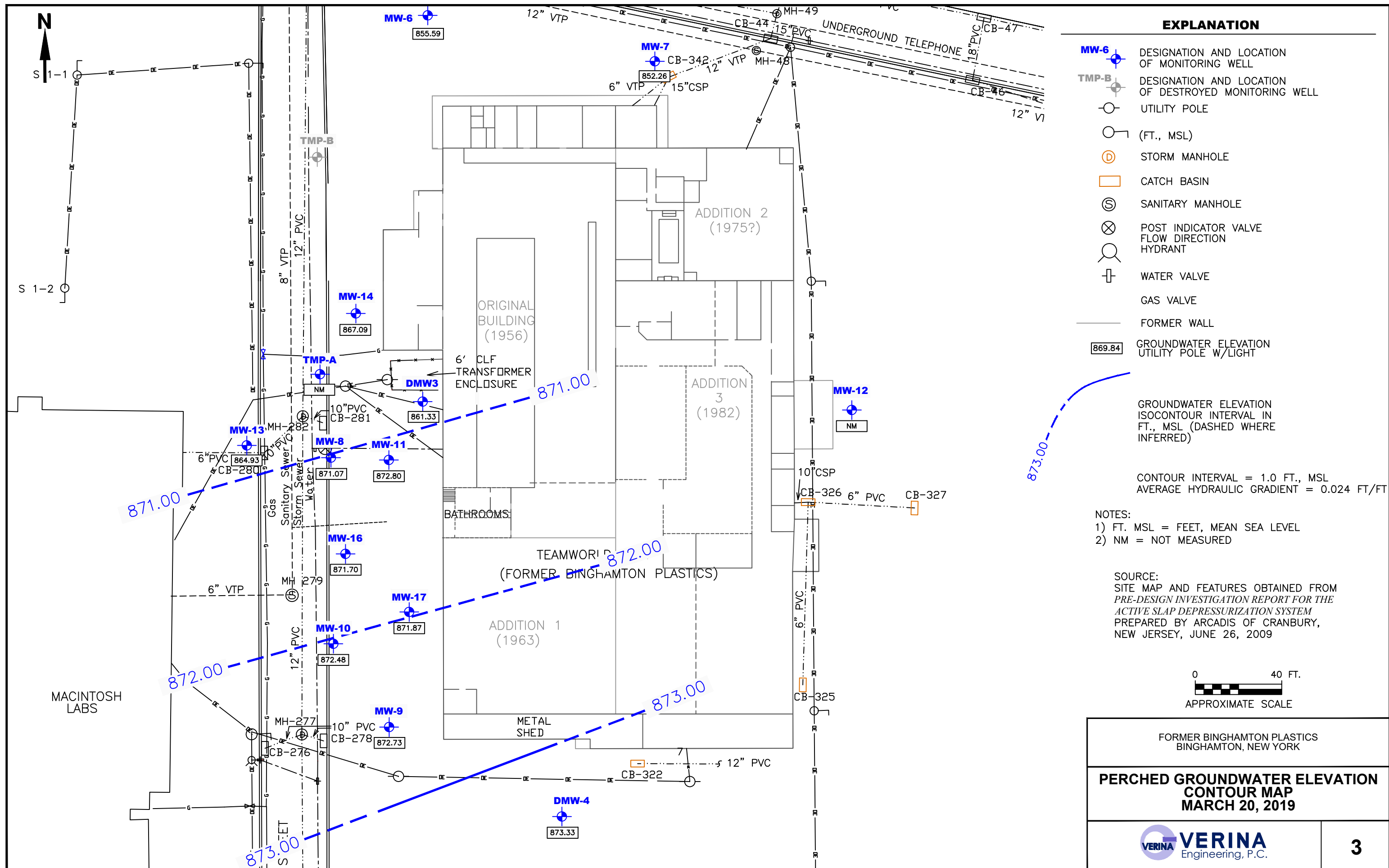
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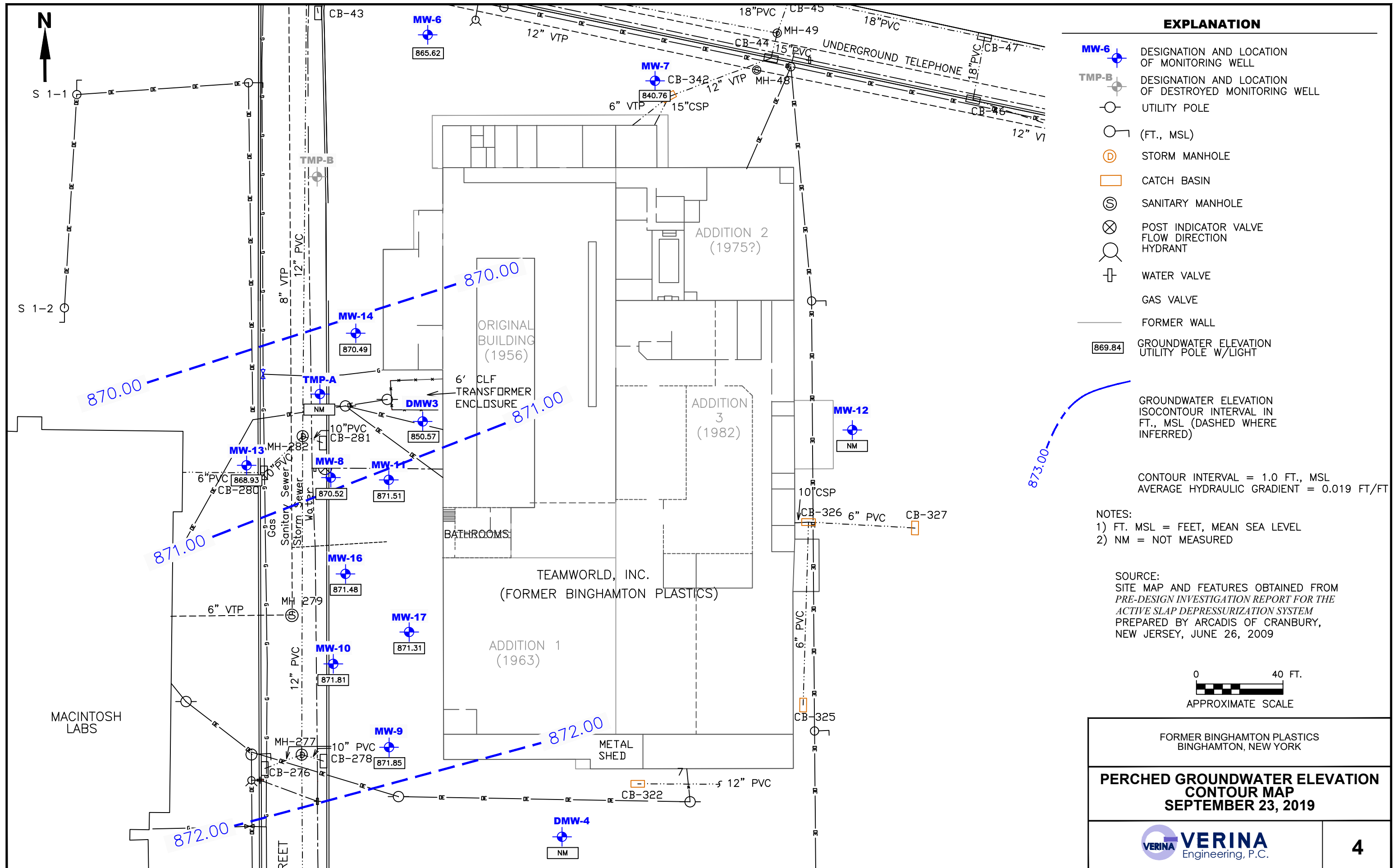
FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

REGIONAL LOCATION MAP

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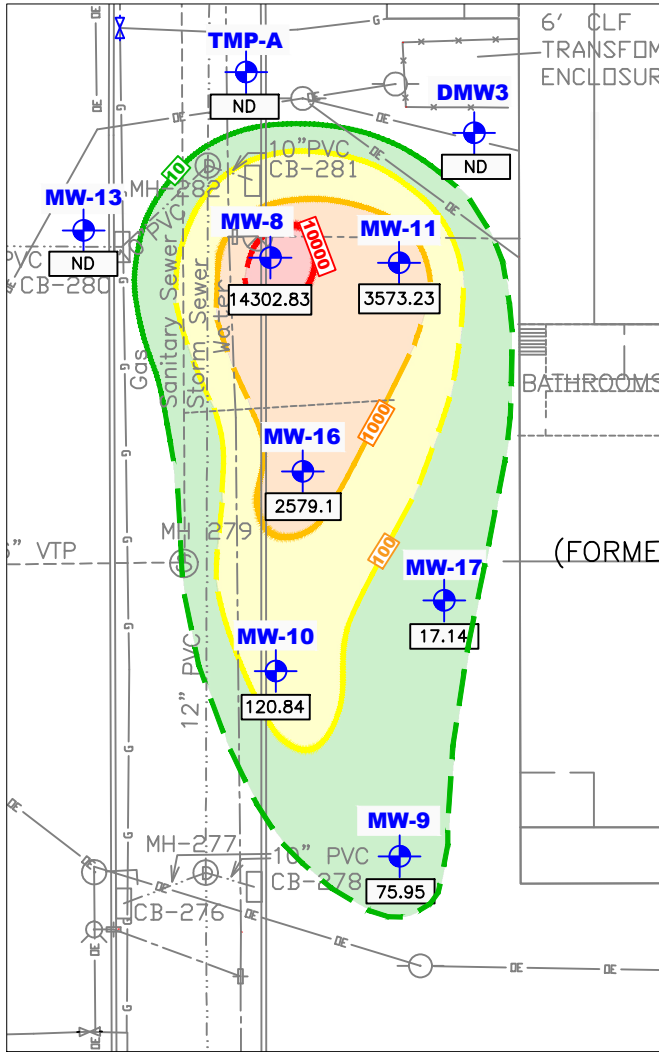




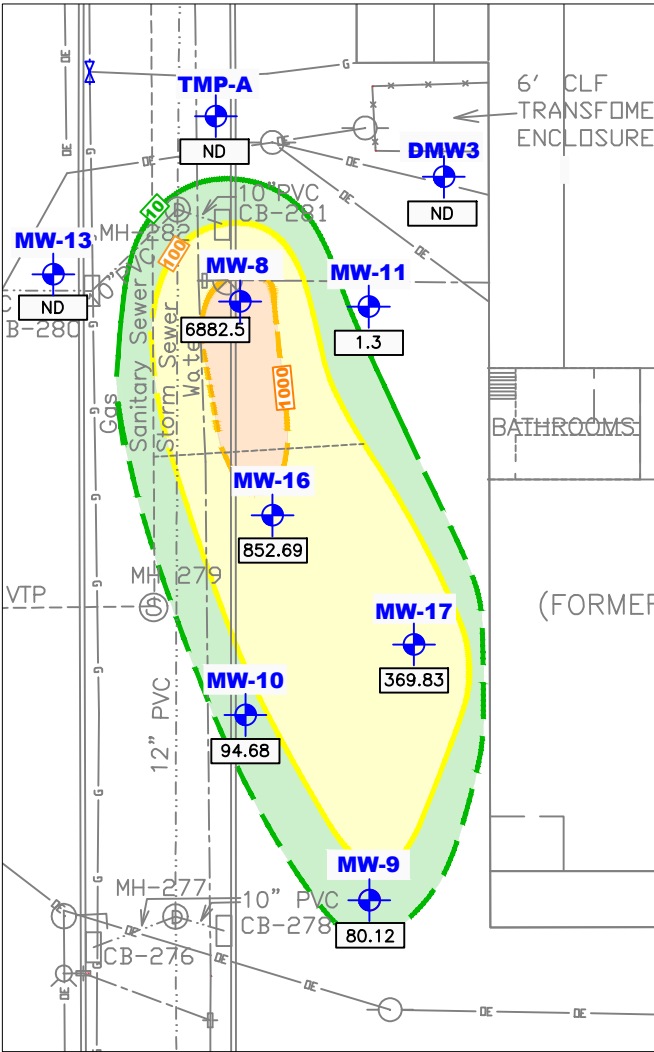




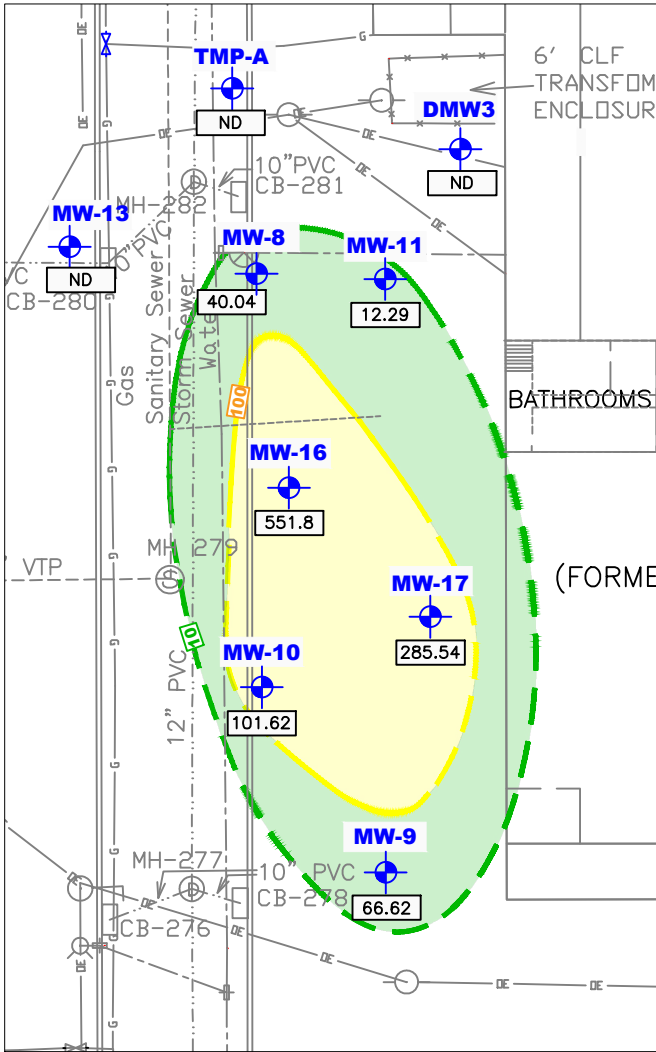
(Baseline) JUNE 2009



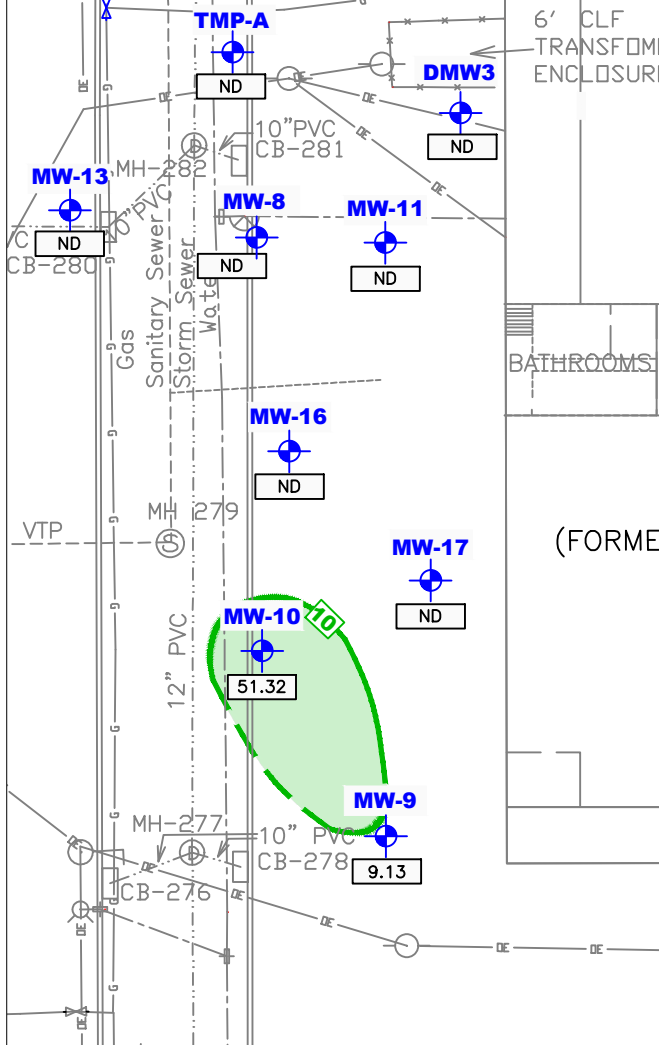
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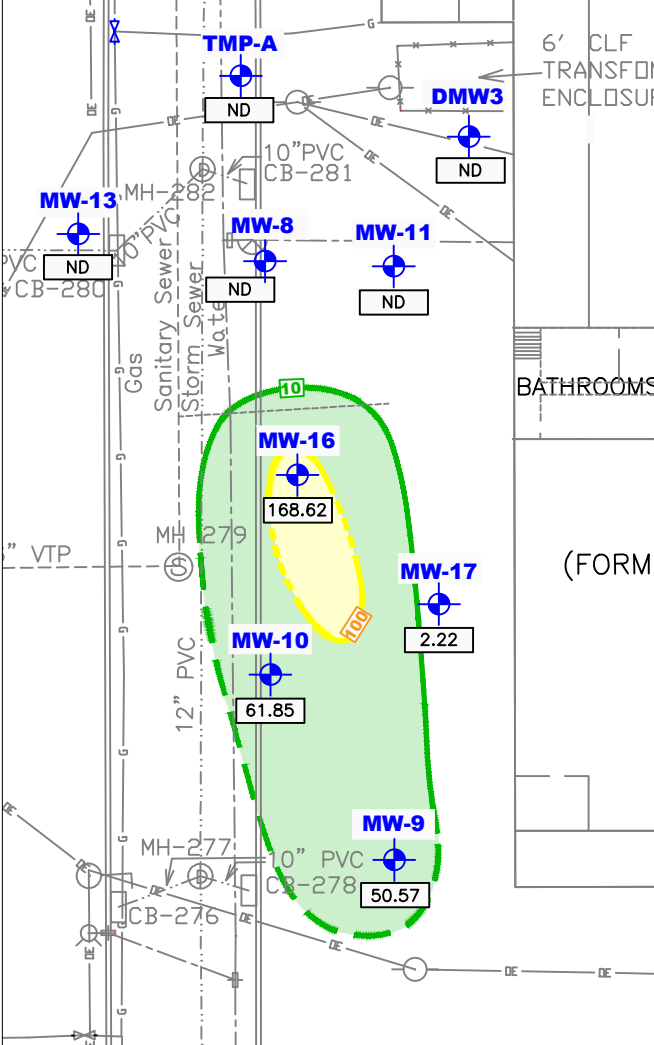
SEPTEMBER 2013



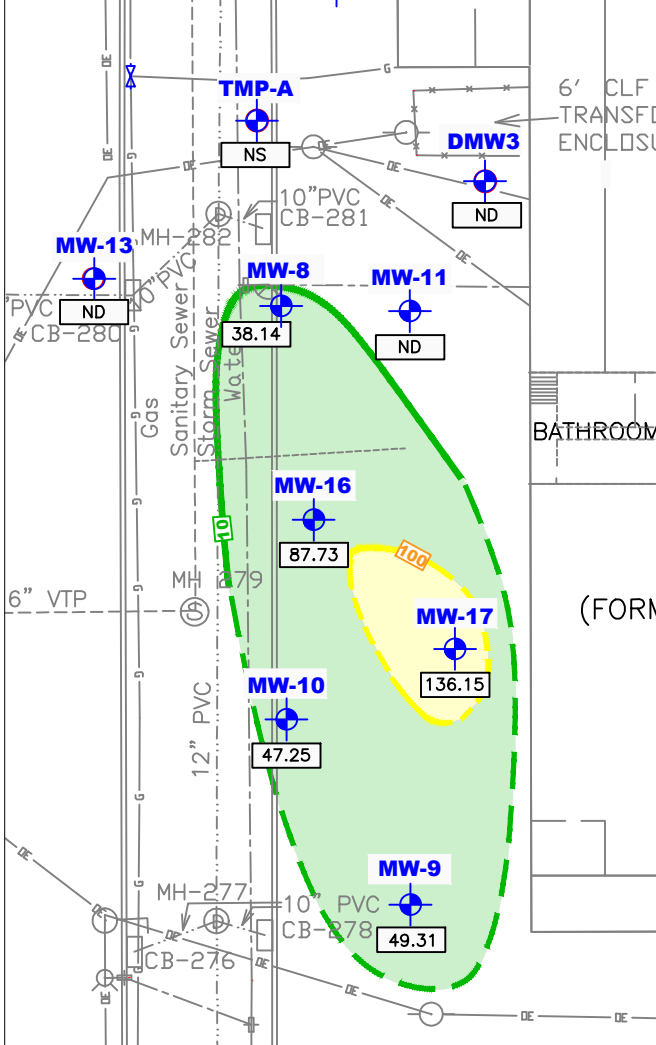
SEPTEMBER 2015



SEPTEMBER 2017



SEPTEMBER 2019



NOTE:
CONTOUR LINES ARE DASHED WHERE INFERRED

EXPLANATION

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

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

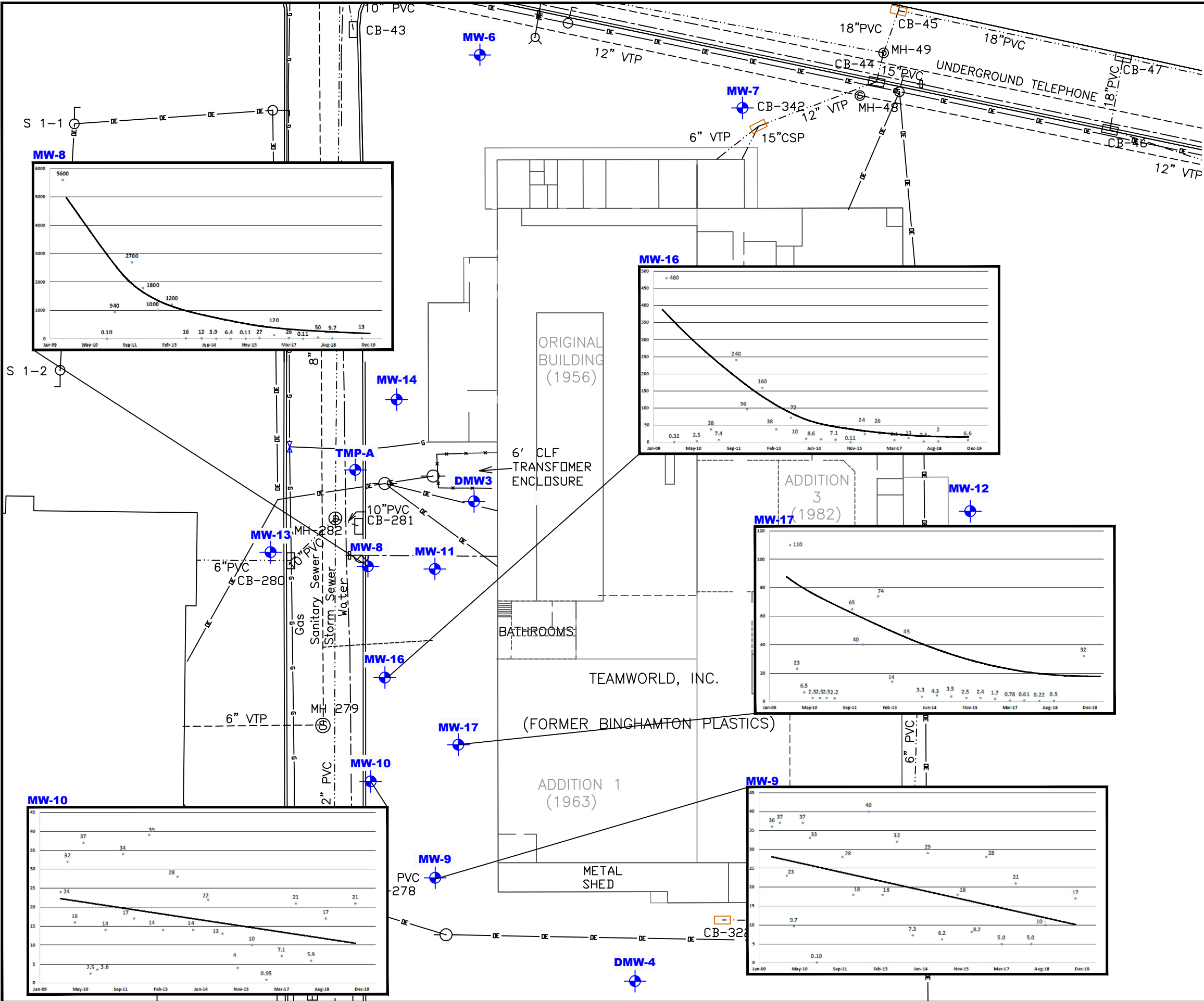


FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

ESTIMATED PCE AND DAUGHTER
PRODUCTS TOTAL MOLAR ISOCONCENTRATION
PLUME MAPS AS CHLORIDE EQUIVALENTS,
BASELINE TO SEPTEMBER 2019

VERINA
Engineering, P.C.

5



EXPLANATION

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

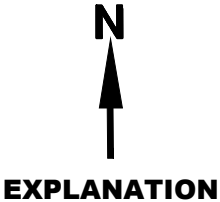
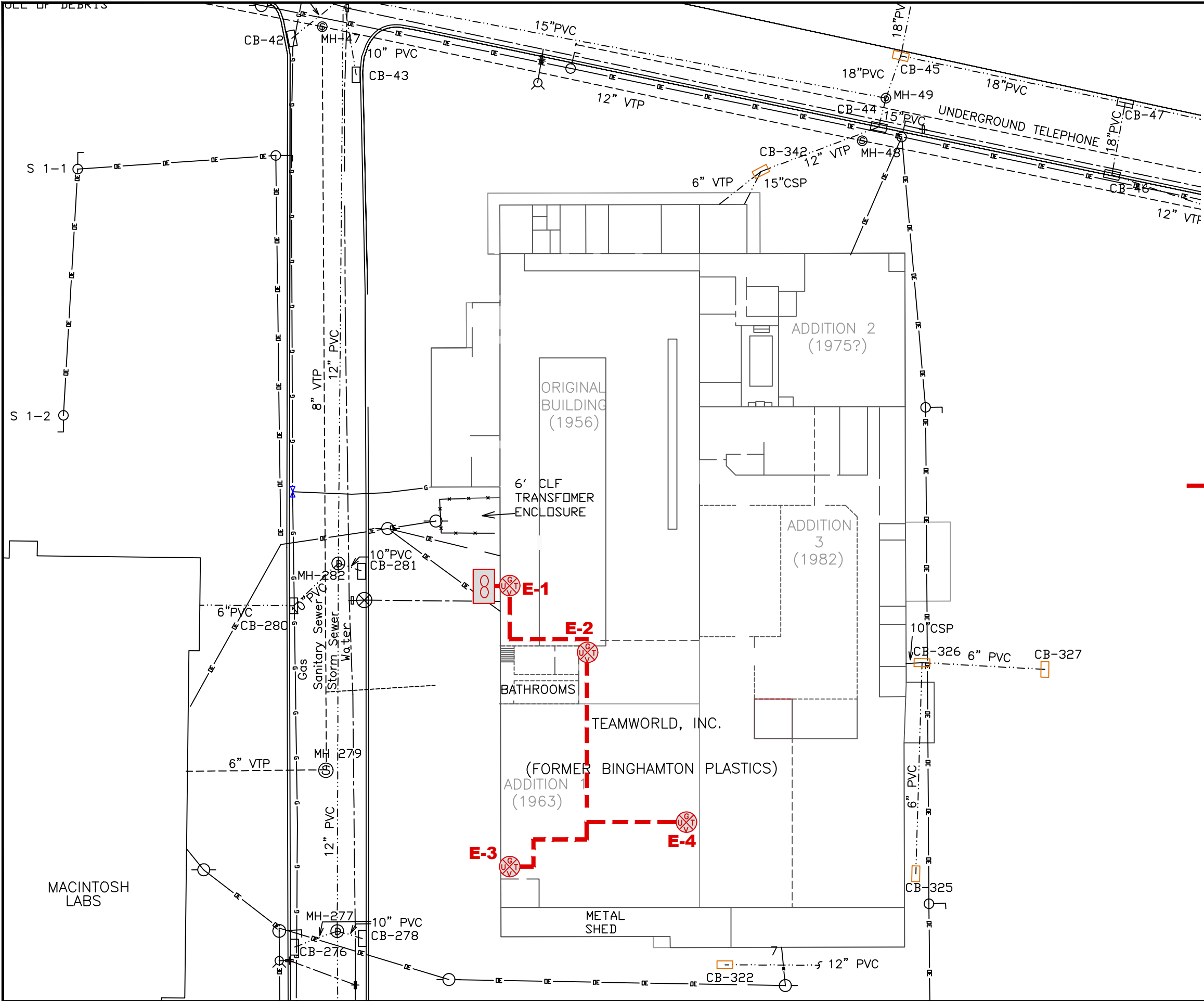
SOURCE:
SITE MAP AND FEATURES OBTAINED FROM
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NEW JERSEY, JUNE 26, 2009



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TCE TREND ANALYSIS AT SELECT WELLS





- UTILITY POLE
- UTILITY POLE W/LIGHT
- STORM MANHOLE
- CATCH BASIN
- SANITARY MANHOLE
- POST INDICATOR VALVE
- HYDRANT
- WATER VALVE
- GAS VALVE
- FORMER WALL
- DESIGNATION AND APPROXIMATE LOCATION OF SUCTION POINT WITH GATE VALVE AND VACUUM GAUGE
- APPROXIMATE LOCATION OF EXHAUST FAN
- APPROXIMATE LOCATION OF PIPE ROUTE

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



FORMER BINGHAMTON PLASTICS
BINGHAMTON, NEW YORK

ASD SYSTEM LAYOUT



Tables

Table 1 - Groundwater Elevation Data - March 2019, Former Binghamton Plastics, Binghamton, New York

Monitoring Well	Well Diameter (in)	Total Depth (ft, bg)	Screened Interval (ft, bg)	Surface Elevation (ft, msl)	Top of Casing Elevation (ft, msl)	Top of PVC Elevation (ft, msl)	Depth to Water (ft, TOC)	Groundwater Elevation (ft, msl)
DMW-1	4	15	5-15	876.19	876.44	874.21	Abandoned	NA
DMW-3	2	49.10	41-48	875.16	875.16	874.22	12.89	861.33
DMW-4	2	15.30	4-14	878.32	878.38	877.91	4.58	873.33
MW-5	2	20	10-20	874.18	874.17	873.83	Abandoned	NA
MW-6	2	39.43	30-40	869.62	869.63	869.37	13.78	855.59
MW-7	2	39.43	30-40	869.96	869.99	869.60	17.34	852.26
MW-8	2	14.13	5-15	873.22	873.18	872.83	1.76	871.07
MW-9	2	14.63	5-15	875.02	875.04	874.76	2.03	872.73
MW-10	2	14.48	5-15	875.70	875.71	875.47	2.99	872.48
MW-11	2	19.90	10-20	874.53	874.52	874.14	1.34	872.80
MW-12	2	NM	35-45	873.70	873.70	873.38	NM	NA
MW-13	2	14.01	5-15	874.08	874.09	873.60	8.67	864.93
MW-14	2	14.18	5-15	871.06	871.07	870.57	3.48	867.09
MW-15	2	15	5-15	874.06	874.16	873.69	Abandoned	NA
MW-16	2	13.93	5-15	874.56	NS	874.11	2.41	871.70
MW-17	2	14.86	5-15	874.03	NS	873.74	1.87	871.87
TMP-A	1	NM	3-8	871.59	NS	871.39	NM	NA
TMP-B	1	10	5-10	869.57	NS	869.36	Abandoned	NA

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NM = Not measured

NS = Not surveyed

Groundwater elevation measured on March 21, 2019

Table 2 - Groundwater Elevation Data - September 2019, Former Binghamton Plastics, Binghamton, New York

Monitoring Well	Well Diameter (in)	Total Depth (ft, bg)	Screened Interval (ft, bg)	Surface Elevation (ft, msl)	Top of Casing Elevation (ft, msl)	Top of PVC Elevation (ft, msl)	Depth to Water (ft, TOC)	Groundwater Elevation (ft, msl)
DMW-1	4	15	5-15	876.19	876.44	874.21	Abandoned	NA
DMW-3	2	48.05	41-48	875.16	875.16	874.22	23.65	850.57
DMW-4	2	NM	4-14	878.32	878.38	877.91	NM	NM
MW-5	2	20	10-20	874.18	874.17	873.83	Abandoned	NA
MW-6	2	49.74	30-40	869.62	869.63	869.37	3.75	865.62
MW-7	2	39.90	30-40	869.96	869.99	869.60	28.84	840.76
MW-8	2	13.69	5-15	873.22	873.18	872.83	2.31	870.52
MW-9	2	14.40	5-15	875.02	875.04	874.76	2.91	871.85
MW-10	2	14.30	5-15	875.70	875.71	875.47	3.66	871.81
MW-11	2	19.50	10-20	874.53	874.52	874.14	2.63	871.51
MW-12	2	NM	35-45	873.70	873.70	873.38	NM	NM
MW-13	2	13.72	5-15	874.08	874.09	873.60	4.67	868.93
MW-14	2	14.35	5-15	871.06	871.07	870.57	0.08	870.49
MW-15	2	15	5-15	874.06	874.16	873.69	Abandoned	NA
MW-16	2	13.25	5-15	874.56	NS	874.11	2.63	871.48
MW-17	2	14.8	5-15	874.03	NS	873.74	2.43	871.31
TMP-A	1	NM	3-8	871.59	NS	871.39	NM	NM
TMP-B	1	10	5-10	869.57	NS	869.36	Abandoned	NA

NOTES:

Elevation is surveyed to National Vertical Datum - 1929

in = Inches

ft, bg = Feet below grade

ft, msl = Feet above mean sea level

ft, TOC = Feet from top of inner well casing

NA = Not available

NM = Not measured

NS = Not surveyed

Groundwater elevation measured on September 23, 2019

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

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

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

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

Well ID No.	Residual Sodium Permanganate by Permanganate Ion Analysis (ppm)					
	March 2017	September 2017	March 2018	September 2018	March 2019	September 2019
MW-8	81.9	68.6	93.6	1.2	99.1	19.6
MW-9	13.7	8.7	16.8	0.1	33.7	NA
MW-10	NS	NS	NS	NS	23.7	NA
MW-11	NS	315.2	NS	22.7	NS	147.2
MW-16	160.0	302.4	93	0.1	354.0	149.6
MW-17	12.0	238.5	84.6	2.4	231.9	3.5

NOTES:

ppm = parts per million

NA = Purge water was clear and water was not analyzed for residual permanganate

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

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

Table 4 - Groundwater Analytical Data - March 2019, Former Binghamton Plastics, Binghamton, New York

Sample ID		MW-8	MW-9	MW-10	MW-16	DUP-032019
Laboratory ID		R1902432-007	R1902432-004	R1902432-002	R1802551-005	R1902432-008
Date Sampled	NYSDEC	3/20/2019	3/20/2019	3/20/2019	3/22/2019	3/20/2019
Units	GWQS	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	10 U	10 U	0.43 J	18	18
1,1-Dichloroethene	5	10 U	10 U	1.0 U	0.47 J	0.54 J
cis-1,2-Dichloroethene	5	92	10 U	2.0	68	59
trans-1,2-Dichloroethene	5	10 U	10 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	10 U	10 U	0.52 J	0.23 J	0.30 J
1,1,1-Trichloroethane	5	10 U	10 U	0.70 J	8.9	8.7
Trichloroethene	5	24	5.3 J	7.0	18	16
Vinyl Chloride	2	10 U	10 U	1.0 U	1.0 U	1.0 U

Sample ID		MW-17	FB-032019	TRIP BLANK
Laboratory ID		R1902432-003	R1902432-005	R1902432-001
Date Sampled	NYSDEC	3/20/2019	3/20/2019	3/20/2019
Units	GWQS	µg/l	µg/l	µg/l
1,1-Dichloroethane	5	3.2 J	1.0 U	1.0 U
1,1-Dichloroethene	5	10 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	10 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	10 U	1.0 U	1.0 U
Tetrachloroethene	5	10 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	10 U	1.0 U	1.0 U
Trichloroethene	5	10 U	1.0 U	1.0 U
Vinyl Chloride	2	10 U	1.0 U	1.0 U

Notes:

J = Estimated value

µg/l = micrograms per liter

Bold = concentration exceeds NYSDEC GWQS

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

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

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"EB" indicates the sample is an equipment blank sample

Table 5 - Groundwater Analytical Data - September 2019, Former Binghamton Plastics, Binghamton, New York

Sample ID		DMW-3	MW-8	MW-9	MW-10	MW-11	MW-13
Laboratory ID		R1909228-008	R1909228-009	R1909228-007	R1909228-005	R1909228-003	R1909228-004
Date Sampled	NYSDEC	9/23/2019	9/23/2019	9/23/2019	9/23/2019	9/23/2019	9/23/2019
Units	GWQS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	1.0 U	3.2	1.0 U	0.76 J	10 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	4.1	0.32 J	2.8	10 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	0.29 J	1.1	10 U	1.0 U
1,1,1-Trichloroethane	5	1.0 U	1.7	0.49 J	2.1	10 U	1.0 U
Trichloroethene	5	1.0 U	13	21	17	10 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U

Sample ID		MW-16	DUP-092319	MW-17	TRIP BLANK	FB-092319
Laboratory ID		R1909228-010	R1909228-011	R1909228-002	R1909228-001	R1909228-006
Date Sampled	NYSDEC	9/23/2019	9/23/2019	9/23/2019	9/23/2019	9/23/2019
Units	GWQS	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	23	23	31	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.28 J	2.6	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	32	35	66	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.27 J	0.2 7 J	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	7.7	7.6	5.1	1.0 U	1.0 U
Trichloroethene	5	6.6	7.1	32	1.0 U	1.0 U
Vinyl Chloride	2	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U

Notes:

J = Estimated value

µg/l = micrograms per liter

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

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

Bold = concentration exceeds NYSDEC GWQS

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"FB" indicates the sample is an equipment blank sample

Table 6 - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
DMW-1	2/8/1999	1000	< 180	< 360	8200	71
DMW-3	12/10/1998	<2.5	<2.5	<0.5	1.1 J	<10
	9/18/2001	< 0.5	< 0.5	< 0.5	0.5 J	< 0.5
	4/1/2002	0.03 J	< 0.5	< 0.5	0.3 J	< 0.5
	9/19/2002	0.2 J	<0.5	0.07 J	0.3 J	<0.5
	3/28/2003	<0.5	<0.5	0.2 J	0.1 J	<0.5
	6/19/2003	0.8	<0.5	0.3 J	0.8	<0.5
	9/16/2003	<0.5	<0.5	0.3 J	0.08 J	<0.5
	1/6/2004	<0.5	0.091 J	0.31 J	0.16 J	<0.5
	4/6/2004	0.2 J	<0.5	0.25 J	0.15 J	<0.5
	6/24/2004	<0.5	<0.5	0.17	<0.5	<0.5
	9/20/2004	<0.5	<0.5	0.23 J	0.13 J	<0.5
	3/23/2005	<0.5	<0.5	<0.5	0.13J	<0.5
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<5	<5	0.43J	<5	<5
	5/25/2006	<5	<5	<5	<5	<5
	9/19/2006	<5	<5	<5	<5	<5
	4/2/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	8/28/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	10/15/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	3/24/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	7/22/2008	<5.0	<5.0	<5.0	0.88 J	<5.0
	10/7/2008	<5.0	<5.0	<5.0	0.40 J	<5.0
	12/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/14/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2016	<1.0	<1.0	<1.0	<1.0	<1.0
	9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2019	<1.0	<1.0	<1.0	<1.0	<1.0
DMW-4	12/9/1998	< 2.5	< 2.5	< 5	1.2J	< 10
TMP-A	3/22/2005	<0.5	<0.5	<0.5	<0.5	<0.5
	9/27/2005	<2	<2	<1	<2	<2
	3/7/2006	<5	<5	<5	<5	<5
	5/25/2006	<5	<5	<5	<5	<5
	9/19/2006	<5	<5	<5	<5	<5
	4/2/2007	<5	<5	<5	<5	<5
	7/23/2008	<5	<5	<5	<5	<5
	10/7/2008	<5	<5	<5	<5	<5
	3/9/2009	<5	<5	<5	<5	<5
	6/9/2009	<5	<5	<5	<5	<5
	9/16/2009	<5	<5	<5	<5	<5
	3/8/2010	<5	<5	<5	<5	<5
	10/27/2011	<5	<5	<5	<5	<5
	3/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2016	<1.0	<1.0	<1.0	<1.0	<1.0
	9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2	12/10/1998	7.9	< 2.5	1.3 J	86	< 10
MW-5	12/10/1998	480	11	1	17,000	20
	9/18/2001	370 J	< 500	<500	23,000	< 500
	4/1/2002	0.3 J	< 0.5	0.06 J	48	< 0.5
MW-6	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-7	12/8/1998	< 2.5	< 2.5	< 5	< 5	< 10

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-8	12/10/1998	0.25	< 5	< 0.01	0.35	<20
	9/18/2001	650	< 25	< 25	100	44
	4/1/2002	170	2	6	230	6
	9/18/2002	240	3 J	<6	560	<6
	3/28/2003	370	4	0.4 J	420	16
	6/19/2003	1,000	19	<13	810	36
	9/16/2003	960	14 J	<31	250	240
	1/6/2004	670	7.3 J	<18	500	7.7 J
	4/6/2004	1,900	12 J	<50	420	300
	6/24/2004	2,500	27	83	170	430
	9/20/2004	6,200	75	<210	380	740
	3/23/2005	4,000	44 J	<0.5	930	490
	6/14/2005	<2	<2	<1	<1	<2
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<50	<50	<50	<50	<50
	4/2/2007	110	0.69J	<5.0	360D	<5.0
	10/15/2007	640 D	9.8 J	<13	2700 D	66
	3/24/2008	170	3.3 J	<13	790 D	4.2 J
	7/22/2008	900	14 J	<100	3400	120
	10/7/2008	640	18 J	<100	3200	82 J
	12/2/2008	440	6.4 J	<25	2200 D	3.6 J
	3/10/2009	450	<100	<100	2200	38 J
	6/9/2009	680	14 J	<50	5600 D	53
	9/14/2009	NS	NS	NS	NS	NS
	12/8/2009	NS	NS	NS	NS	NS
	3/8/2010	NS	NS	NS	NS	NS
	6/21/2010	NS	NS	NS	NS	NS
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	100	0.43 J	<5.0	940 D	3.9 J
	10/27/2011	330 D	1.6 J	<5.0	2700 D	21
	3/13/2012	290	3.2 J	<50	1800	32 J
	9/17/2012	360	<50	<50	1000	33 J
	3/11/2013	210	11 J	<50	1200	5.3 J
	9/2/2013	1.7 J	<5.0	<5.0	16	<5.0
	3/17/2014	0.85 J	<5.0	<5.0	12	<5.0
	9/20/2014	0.67 J	<5.0	<5.0	3.9 J	<5.0
	3/18/2015	0.75 J	<5.0	<5.0	6.4	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	3/17/2016	9.1	<1.0	<1.0	27	<1.0
	9/15/2016	71	<1.0	<1.0	120	<1.0
	3/22/2017	29	<1.0	<1.0	26	<1.0
	9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0
	3/22/2018	67	0.33 J	<1.0	50	<1.0
	9/20/2018	11 (15)	<1.0	<1.0 (<1.0)	8.7 (9.7)	<1.0 (<1.0)
	3/20/2019	92	<10.0	<10.0	24	<10.0
	9/23/2019	4.1	<1.0	<1.0	13	<1.0
MW-9	12/10/1998	7.3	< 2.5	1.2J	77	< 10
	4/1/2002	0.6	< 0.5	0.2 J	20	< 0.5
	9/18/2002	7	0.08 J	1	57 J	0.9 J
	3/28/2003	1	<0.5	0.4 J	16	<0.5
	6/19/2003	3	0.04 J	0.5	26	0.09 J
	9/16/2003	4.1	<1.3	0.61 J	40	<1.3
	1/6/2004	2.4	0.083 J	0.48 J	23	<0.5
	4/6/2004	0.8 J	<1	0.61 J	30	<1
	6/24/2004	4.7	<0.5	0.53	27	0.52
	9/20/2004	6.2	<2.0	0.79 J	57	<2.0
	3/23/2005	0.78	<0.5	0.23 J	17	<0.5
	9/27/2005	5.5	<2	<2	46	<2
	3/7/2006	<5	<5	<5	<5	<5
	4/2/2007	0.85J	<5.0	<5.0	24	<5.0
	8/28/2007	8.4	<5.0	0.88 J	55	0.67 J
	10/15/2007	10	<5.0	0.81 J	55	<5.0
	3/24/2008	0.44 J	<5.0	<5.0	19	<5.0
	7/21/2008	12	<5.0	0.55 J	45	0.55 J
	10/8/2008	7.1	<5.0	0.59 J	49	<5.0
	12/2/2008	5.8	<5.0	0.47 J	49	<5.0
	3/10/2009	2.1 J	<5.0	<5.0	24	<5.0
	6/10/2009	1.4 J	<5.0	<5.0	32	<5.0
	9/16/2009	1.9 J	<5.0	0.83 J	24	<5.0
	12/8/2009	2.2 J	<5.0	0.43 J	32	<5.0
	3/8/2010	0.78 J	<5.0	<5.0	16	<5.0
	6/21/2010	1.60 J	<5.0	<5.0	37	<5.0
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/16/2010	<5.0	<5.0	<5.0	3.6 J	<5.0
	3/23/2011	<5.0	<5.0	<5.0	14	<5.0
	10/26/2011	0.76 J	<5.0	0.38 J	34	<5.0
	3/13/2012	0.21 J	<5.0	<5.0	17	<5.0
	9/18/2012	1.1 J	<5.0	0.39 J	39	<5.0
	3/11/2013	<5.0	<5.0	<5.0	14	<5.0
	9/5/2013	0.94 J	<5.0	0.31 J	28	<5.0
	3/17/2014	0.41 J	<5.0	<5.0	14	<5.0
	9/21/2014	<5.0	<5.0	<5.0	22	<5.0
	3/19/2015	0.92 J	<5.0	<5.0	13	<5.0
	9/23/2015	<5.0	<5.0	<5.0	4.0 J	<5.0
	3/17/2016	0.31 J	<1.0	<1.0	10	<1.0
	9/15/2016	<1.0 (<1.0)	<1.0 (<1.0)	<1.0 (<1.0)	0.95 J (0.91 J)	<1.0 (<1.0)
	3/21/2017	<1.0	<1.0	<1.0	7.1	<1.0
	9/14/2017	0.92 J	<1.0	0.30 J	21	<1.0
	3/22/2018	<1.0	<1.0	<1.0	5.9	<1.0
	9/20/2018	<1.0	<1.0	<1.0	17	<1.0
	3/20/2019	<10.0	<10.0	<10.0	5.3 J	<10.0
	9/23/2019	0.32 J	<1.0	0.29 J	21	<1.0

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-10	12/10/1998	18	< 2.5	54	64	2.3 J
	9/18/2001	10	< 1.4	2	21	18
	4/1/2002	11	0.3 J	1	16	2
	9/18/2002	14	0.4 J	4	53 J	21
	3/28/2003	11	0.2 J	2	25	2
	6/19/2003	13	0.5 J	3	32	9
	9/16/2003	15	0.39 J	2.4	42	12
	1/6/2004	4.3	0.26 J	1.6	13	0.43 J
	4/6/2004	4.7	<0.5	0.89	13	0.38 J
	6/24/2004	16	0.65	2.6	45	8.6
	9/20/2004	3.4	0.15 J	2.7	16	0.9
	3/23/2005	3.8	0.11 J	1.1	12	0.57
	9/27/2005	13	<2	3	50	6.6
	3/7/2006	9.3	<5	1.6J	27	2.5J
	9/19/2006	17	0.48J	2.2J	32	5.9
	8/28/2007	12	0.33 J	2.2 J	31	5.9
	10/15/2007	4.8 J	<5.0	2.1 J	16	1.7 J
	3/24/2008	3.9 J	<5.0	0.53 J	6.6	<5.0
	7/21/2008	3.7 J	<5.0	0.45 J	5.3	0.72 J
	10/8/2008	12	0.26 J	1.4 J	25	5.3
	12/2/2008	4.4 J	<5.0	1.2 J	9.4	<5.0
	3/10/2009	4.3 J	<5.0	0.77 J	9.2	<5.0
	6/8/2009	15	<5.0	1.6 J	36	2.4 J
	9/14/2009	18	<5.0	2.0 J	37	4.8 J
	12/9/2009	13	<5.0	1.3 J	23	1.1 J
	3/8/2010	5.3	<5.0	0.71 J	9.7	<5.0
	6/22/2010	19	0.29 J	1.6 J	37	3.5 J
	9/21/2010	18	0.32 J	1.8 J	33	4.5 J
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	86	<5.0	0.67 J	180	1.8 J
	10/26/2011	11	0.21 J	1.7 J	28	2.2 J
	3/13/2012	6	<5.0	0.81 J	18	0.46 J
	9/17/2012	14	<5.0	1.8 J	40	2.7 J
	3/11/2013	7.9	<5.0	0.72 J	18	0.49 J
	9/2/2013	11	<5.0	1.7 J	32	1.1 J
	3/17/2014	3.4 J	<5.0	0.63 J	7.3	<5.0
	9/21/2014	8.9	<5.0	1.4 J	29	0.69 J
	3/18/2015	2.1 J	<5.0	0.66 J	6.2	<5.0
	9/23/2015	3.2 J (3.1 J)	<5.0 (<5.0)	1.5 J (1.3 J)	18 (17)	<5.0 (<5.0)
	3/17/2016	2.9	<1.0	0.76 J	8.2	<1.0
	9/15/2016	6.3	<1.0	1.6	28	0.36 J
	3/21/2017	2.6	<1.0	0.70 J	5.0	<1.0
	9/14/2017	5.1 (4.9)	<1.0 (<1.0)	1.3 (1.4)	21 (21)	0.38 J (<1.0)
	3/20/2018	2.2	<1.0	0.52 J	5.0	<1.0
	9/20/2018	2.6	<1.0	0.87 J	10	<1.0
	3/20/2019	2	<1.0	0.52 J	7.0	<1.0
	9/23/2019	2.8	<1.0	1.1	17	<1.0
MW-11	12/9/1998	1,100	11	< 5	1,400	140
	9/18/2001	850	< 31	<31	700	77
	4/1/2002	1,100	12	<50	1,500	23
	9/19/2002	1,600	12 J	<25	2,100	82
	3/28/2003	1,200	11	0.2 J	2,400	58
	6/19/2003	1,300	10 J	<25	2,500	24 J
	9/16/2003	1,700	13 J	<83	2,500	170
	1/6/2004	1,200	31 J	<53	1,500	28 J
	4/6/2004	1,700	17	<83	2,300	6.8
	6/24/2004	1,600	18	<63	1,900	29
	9/20/2004	2,300 D	26 DJ	<63	2,200 D	58 DJ
	3/23/2005	1,500 D	21	<0.5	1,300 D	7.8
	6/14/2005	<2	<2	<1	<1	<2
	9/27/2005	<2	<2	<1	<1	<2
	3/7/2006	<500	<500	<500	<500	<500
	10/15/2007	<5.0	<5.0	<5.0	<5.0	< 5.0
	3/24/2008	130	<25	<25	520	5.2 J
	7/22/2008	1900	15 J	<100	2900	140
	10/7/2008	NS	NS	NS	NS	NS
	12/2/2008	NS	NS	NS	NS	NS
	3/11/2009	990	9.1 J	<25	3200 D	67
	6/8/2009	NS	NS	NS	NS	NS
	9/14/2009	NS	NS	NS	NS	NS
	12/8/2009	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS
	6/21/2010	NS	NS	NS	NS	NS
	9/20/2010	NS	NS	NS	NS	NS
	12/16/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/27/2011	<5.0	<5.0	<5.0	0.57 J	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/17/2012	<5.0	<5.0	<5.0	0.62 J	<5.0
	3/11/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/2/2013	1.2 J	<5.0	<5.0	4.3 J	<5.0
	3/18/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<25	<25	<25	<25	<25
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2016	<10	<10	<10	<10	<10
	9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2019	<10	<10	<10	<10	<10

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-12	12/7/1998	< 2.5	< 2.5	< 5	< 5	< 10
MW-13	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
	3/24/2008	NS	NS	NS	NS	NS
	7/23/2008	NS	NS	NS	NS	NS
	10/9/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	12/2/2008	<5.0	<5.0	<5.0	0.96 J	<5.0
	3/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/10/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/16/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2016	<1.0	<1.0	<1.0	<1.0	<1.0
	9/14/2017	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2019	<1.0	<1.0	<1.0	<1.0	<1.0
MW-14	12/9/1998	< 2.5	< 2.5	< 5	< 5	< 10
	9/18/2001	< 0.5	< 0.5	< 0.5	0.2J	< 0.5
	3/28/2003	<0.5	<0.5	0.08 J	<0.5	<0.5
	6/19/2003	<0.5	<0.5	0.3 J	0.04 J	<0.5
	9/16/2003	<0.5	<0.5	0.087 J	<0.5	<0.5
	1/6/2004	<0.5	<0.5	<0.5	0.064 J	<0.5
	4/6/2004	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2004	2.1	<0.5	0.27 J	6.5	<0.5
	9/20/2004	<0.5	<0.5	<0.5	<0.5	<0.5
	3/23/2005	<0.5	<0.5	<0.5	<0.5	<0.5
	3/7/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	5/25/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	9/19/2006	<5.0	<5.0	<5.0	<5.0	<5.0
	4/2/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	8/28/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	10/15/2007	<5.0	<5.0	<5.0	<5.0	<5.0
	3/24/2008	<5.0	<5.0	<5.0	0.62 J	<5.0
	7/23/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	10/7/2008	<5.0	<5.0	<5.0	0.32 J	<5.0
	12/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0
	3/11/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	6/10/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	9/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	12/9/2009	<5.0	<5.0	<5.0	<5.0	<5.0
	3/9/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/14/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	10/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0
	3/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/18/2012	<5.0	<5.0	<5.0	<5.0	<5.0
	9/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2014	<5.0	<5.0	<5.0	<5.0	<5.0
MW-15	12/10/1998	960	11	14	6,900	23
	9/18/2001	790	< 84	< 84	4,000	68 J
	4/1/2002	510	10	17	3,400	34

See notes on last page.

Table 6 (Continued) - Historical Groundwater Volatile Organic Compound Analytical Results, Former Binghamton Plastics, Binghamton, New York

Sample Location Units:	Sampling Date	cis-1,2-Dichloroethene µg/l	trans-1,2-Dichloroethene µg/l	Tetrachloroethene µg/l	Trichloroethene µg/l	Vinyl Chloride µg/l
MW-16	9/19/2002	1,500	11 J	<32	340	38
	3/28/2003	440	7	0.2 J	15	59
	6/19/2003	400	12	0.3 J	48	58
	9/16/2003	87	4.8	0.323 J	9	24
	1/6/2004	68	3.3	<2.5	6.6	20
	4/6/2004	22	1.1	0.23 J	2.6	5.6
	6/24/2004	6.8	2	0.23 J	4.1	2.3
	9/20/2004	78 D	5.2 D	<2.5	17	27 D
	3/23/2005	9.3	5.4	<0.5	0.95	4.4
	9/25/2005	12	5.4	<1	6.2	11
	3/7/2006	<500	<500	<500	<500	<500
	10/15/2007	240 D	13	0.64 J	110	140
	3/24/2008	NS	NS	NS	NS	NS
	7/22/2008	240	8.7 J	<13	69	87
	10/8/2008	710	13 J	1.1 J	330	180
	12/2/2008	450 D	10	0.94 J	320	88
	3/10/2009	270	4.6 J	1.1 J	280	42
	6/10/2009	650	10 J	<25	480	76
	9/15/2009	<5	<5	0.55 J	<5	<5
	12/8/2009	NS	NS	NS	NS	NS
	3/9/2010	NS	NS	NS	NS	NS
	6/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2010	NS	NS	NS	NS	NS
	12/16/2010	16	<5.0	<5.0	38	<5.0
	3/23/2011	4.1 J	<5.0	0.70 J	7.4	<5.0
	10/27/2011	140	5.6	1.8 J	240 D	<5.0
	3/13/2012	94	2.7 J	0.44 J	96	10
	9/17/2012	140	2.0 J	0.71 J	160	11
	3/11/2013	96	7.5	0.34 J	38	1.9 J
	9/5/2013	170	10	0.50 J	72	9.3
	3/17/2014	49	1.4 J	<5.0	10	14
	9/21/2014	17	<5.0	0.43 J	8.6	<5.0
	3/18/2015	31	0.35 J	<5.0	7.1	15
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	3/17/2016	87 (88)	1.4 (1.7)	0.89 J (0.70 J)	24 (24)	1.2 (0.96 J)
	9/15/2016	83	0.87 J	0.61 J	26	4.9
	3/22/2017	30 (40)	<1.0 (<1.0)	<1.0 (<1.0)	6.1 (7.3)	8.1 (8.7)
	9/14/2017	67	<1.0	0.30 J	13	2.7
	3/22/2018	15 (14)	<1.0 (<1.0)	<1.0 (<1.0)	2.4 (2.3)	<1.0 (<1.0)
	9/20/2018	1.5	<1.0	160	1.6	<1.0
	3/20/2019	68 (59)	<1.0 (<1.0)	0.23 J (0.30 J)	18 (16)	<1.0 (<1.0)
	9/23/2019	32 (35)	<1.0 (<1.0)	0.27 J (0.27 J)	6.6 (7.1)	<1.0 (<1.0)
MW-17	9/19/2002	1,800	18 J	<42	2,800	38 J
	3/28/2003	280	11	0.3 J	2	180
	6/19/2003	50	13	<6	1	65
	9/16/2003	4	11	1.6 J	0.74 J	9.1
	1/6/2004	3.3 J	6.4	<4.2	0.81 J	2.4 J
	4/6/2004	3 J	6.8	<5	1.6 J	4.5 J
	6/24/2004	<4.2	9.8	2.2	1.1	1.5
	9/20/2004	3.3 J	11	2.1 J	<5.0	6.7
	3/25/2005	7.9	7.3	<0.5	0.8	5.9
	9/27/2005	150	8	<1	71	24
	3/7/2006	<50	<50	<50	<50	<50
	9/19/2006	0.33	24	3.2	31	17
	8/28/2007	55	2.4 J	0.82 J	110	82
	10/15/2007	37	1.5 J	0.38 J	73	6.6
	3/24/2008	3.0 J	0.33 J	<5.0	1.2 J	0.93 J
	7/21/2008	2.4 J	0.94 J	<5.0	0.66 J	1.1 J
	10/8/2008	16	1.6 J	0.21 J	35	5.7
	12/2/2008	6.6	0.46 J	<5.0	15	1.3 J
	3/10/2009	3.7 J	0.46 J	<5.0	4.4 J	1.9 J
	6/9/2009	2.8 J	0.78 J	<5.0	3.5 J	1.1 J
	9/14/2009	38	2.5 J	0.60 J	110	9.1
	12/8/2009	7.4	0.61 J	<5.0	23	2.1 J
	3/9/2010	4.5 J	<5.0	<5.0	6.5	1.1 J
	6/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	9/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	12/15/2010	<5.0	<5.0	<5.0	<5.0	<5.0
	3/23/2011	5.6	<5.0	<5.0	2.2 J	<5.0
	10/26/2011	87	4.2 J	0.53 J	65	20
	3/14/2012	77	3.3 J	0.27 J	40	18
	9/17/2012	200	10	0.44 J	74	8.2
	3/11/2013	53	2.8 J	<5.0	14	0.41 J
	9/5/2013	84	3.6 J	<5.0	45	1.3 J
	3/17/2014	18	1.0 J	<5.0	3.3 J	<5.0
	9/21/2014	10	<5.0	<5.0	4.3 J	<5.0
	3/18/2015	5.8 (7.8)	<5.0 (<5.0)	<5.0 (<5.0)	3.5 J (4.6 J)	<5.0 (<5.0)
	9/23/2015	<5.0	<5.0	<5.0	<5.0	<5.0
	3/17/2016	3.7	<1.0	<1.0	2.4	<1.0
	9/15/2016	1.4	<1.0	0.30 J	1.7	<1.0
	3/21/2017	0.78 J	<1.0	<1.0	0.78 J	<1.0
	9/14/2017	0.40 J	<1.0	<1.0	0.61 J	<1.0
	3/22/2018	<1.0	<1.0	<1.0	<1.0	<1.0
	9/20/2018	<1.0	<1.0	<1.0	<1.0	<1.0
	3/20/2019	<10.0	<10.0	<10.0	<10.0	<10.0
	9/23/2019	66	<1.0	<1.0	32	0.25 J

NOTES:

J = Estimated value; compound detected below Detection Limit.
D = Compound identified in an analysis at a secondary dilution factor
= Baseline result

NS=Not sampled
µg/l = Micrograms per liter
< = Not detected above laboratory reporting limit given

Table 7 - Proposed 2020 Groundwater Monitoring Matrix, Former Binghamton Plastics, Binghamton, New York

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

Proposed Monitoring Matrix to be Implemented in 2020		
Well ID	Monitoring Schedule	Analysis
DMW-3	Annual	SSPL VOCs
TMP-A	Annual	SSPL VOCs
MW-8	Semiannual	SSPL VOCs
MW-9	Semiannual	SSPL VOCs
MW-10	Semiannual	SSPL VOCs
MW-11	Annual	SSPL VOCs
MW-13	Annual	SSPL VOCs
MW-16	Semiannual	SSPL VOCs
MW-17	Semiannual	SSPL VOCs

Appendix A

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Appendix B



April 04, 2019

Service Request No:R1902432

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

Laboratory Results for: Dover - Binghamton

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory March 21, 2019
For your reference, these analyses have been assigned our service request number **R1902432**.

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

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Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

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

Service Request: R1902432
Date Received: 03/21/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

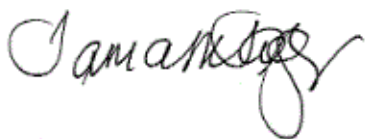
Sample Receipt:

Eight water samples were received for analysis at ALS laboratory on 03/21/2019. The samples were received in good condition and consistent with the accompanying chain of custody form. Unless otherwise noted, samples were stored in a refrigerator at 4° C upon receipt at the laboratory.

Volatiles by GC/MS:

Method 8260C, R1902432-003,004,007: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Approved by



Date

04/04/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10	Lab ID: R1902432-002

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.70	J	0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.43	J	0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.52	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	7.0		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.0		0.23	1.0	ug/L	8260C

CLIENT ID: MW-17	Lab ID: R1902432-003

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane (1,1-DCA)	3.2	J	2.0	10	ug/L	8260C

CLIENT ID: MW-9	Lab ID: R1902432-004

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	5.3	J	2.0	10	ug/L	8260C

CLIENT ID: MW-16	Lab ID: R1902432-006

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	8.9		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	18		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.47	J	0.25	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.23	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	18		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	68		0.23	1.0	ug/L	8260C

CLIENT ID: MW-8	Lab ID: R1902432-007

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	24		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	92		2.3	10	ug/L	8260C

CLIENT ID: DUP 032019	Lab ID: R1902432-008

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	8.7		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	18		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.54	J	0.25	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.30	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	16		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	59		0.23	1.0	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

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

Service Request:R1902432

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1902432-001	TB 032019	3/20/2019	
R1902432-002	MW-10	3/20/2019	0850
R1902432-003	MW-17	3/20/2019	1035
R1902432-004	MW-9	3/20/2019	1215
R1902432-005	FB 032019	3/20/2019	1420
R1902432-006	MW-16	3/20/2019	1440
R1902432-007	MW-8	3/20/2019	1630
R1902432-008	DUP 032019	3/20/2019	

[illegible]



Cooler Receipt and Preservation Check Form

R1902432

5

Verina Consulting Group, LLC
Dover - Binghamton

Project/Client Dover/Binghamton/Verina Consult. Folder Number _____

Cooler received on 3/21 by: GB

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

5a	Perchlorate samples have required headspace?	Y N <u>(NA)</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<u>(Y)</u> N NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>(NA)</u>

8. Temperature Readings Date: 3/21 Time: 0738 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.2</u>						
Correction Factor (°C)	<u>+0.3</u>						
Corrected Temp (°C)	<u>1.5</u>						
Temp from: Type of bottle	<u>cent tube</u>						
Within 0-6°C?	<u>(Y)</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y <u>(N)</u>	Y N	Y N	Y N	Y N	Y N	Y N

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

All samples held in storage location: Row 2 by GB on 3/21 at 0748
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 3/21/19 Time: 1649 by: dlw

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

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃			<u>dlw</u>					
		ZnAcetate	-	-	<u>3/21/19</u>					
		HCl	**	**	<u>Chen 4117090</u>					

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

Bottle lot numbers: 8-206-001

Explain all Discrepancies/ Other Comments: Bubbles

3 VOAs - MW-16
1 VOA - DUP
2 VOAs - MW-17

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

Labels secondary reviewed by: dlw

PC Secondary Review: dlw 3/22/19 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

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

Service Request: R1902432

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1902432-001.01	8260C	3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1444	R-001-S08 / FNAEGLER	
R1902432-001.02		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-001.03		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-002.01	8260C	3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1444	R-001-S08 / FNAEGLER	
R1902432-002.02		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-002.03		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-003.01	8260C	3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1444	R-001-S08 / FNAEGLER	
		3/28/2019	1357	In Lab / FNAEGLER	
		3/28/2019	1505	R-001-S08 / FNAEGLER	
R1902432-003.02		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-003.03					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

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

Service Request: R1902432

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-004.01					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1444	R-001-S08 / FNAEGLER	
R1902432-004.02					
	8260C				
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/28/2019	1357	In Lab / FNAEGLER	
		3/28/2019	1505	R-001-S08 / FNAEGLER	
R1902432-004.03					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-005.01					
	8260C				
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1444	R-001-S08 / FNAEGLER	
R1902432-005.02					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-005.03					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-006.01					
	8260C				
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1444	R-001-S08 / FNAEGLER	
R1902432-006.02					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

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

Service Request: R1902432

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-006.03					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-007.01					
	8260C	3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1445	R-001-S08 / FNAEGLER	
		3/28/2019	1357	In Lab / FNAEGLER	
		3/28/2019	1505	R-001-S08 / FNAEGLER	
R1902432-007.02					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-007.03					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-008.01					
	8260C	3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
		3/27/2019	1338	In Lab / FNAEGLER	
		3/27/2019	1445	R-001-S08 / FNAEGLER	
R1902432-008.02					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	
R1902432-008.03					
		3/21/2019	1651	SMO / GLAFORCE	
		3/21/2019	1651	R-001 / GLAFORCE	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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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.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	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 Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

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

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

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

Service Request: R1902432

Sample Name: TB 032019
Lab Code: R1902432-001
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-10
Lab Code: R1902432-002
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-17
Lab Code: R1902432-003
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-9
Lab Code: R1902432-004
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: FB 032019
Lab Code: R1902432-005
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

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

Service Request: R1902432

Sample Name: MW-16
Lab Code: R1902432-006
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-8
Lab Code: R1902432-007
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: DUP 032019
Lab Code: R1902432-008
Sample Matrix: Water

Date Collected: 03/20/19**Date Received:** 03/21/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

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



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19
Date Received: 03/21/19 07:35

Sample Name: TB 032019
Lab Code: R1902432-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	03/28/19 02:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/28/19 02:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 02:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/28/19 02:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/28/19 02:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 02:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/28/19 02:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 02:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/28/19 02:31	
Dibromofluoromethane	100	89 - 119	03/28/19 02:31	
Toluene-d8	100	87 - 121	03/28/19 02:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 08:50
Date Received: 03/21/19 07:35

Sample Name: MW-10
Lab Code: R1902432-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.70 J	1.0	0.21	1	03/28/19 03:15	
1,1-Dichloroethane (1,1-DCA)	0.43 J	1.0	0.20	1	03/28/19 03:15	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 03:15	
Tetrachloroethene (PCE)	0.52 J	1.0	0.21	1	03/28/19 03:15	
Trichloroethene (TCE)	7.0	1.0	0.20	1	03/28/19 03:15	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 03:15	
cis-1,2-Dichloroethene	2.0	1.0	0.23	1	03/28/19 03:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 03:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/28/19 03:15	
Dibromofluoromethane	101	89 - 119	03/28/19 03:15	
Toluene-d8	99	87 - 121	03/28/19 03:15	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 10:35
Date Received: 03/21/19 07:35

Sample Name: MW-17
Lab Code: R1902432-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	03/28/19 17:57	
1,1-Dichloroethane (1,1-DCA)	3.2 J	10	2.0	10	03/28/19 17:57	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	03/28/19 17:57	
Tetrachloroethene (PCE)	10 U	10	2.1	10	03/28/19 17:57	
Trichloroethene (TCE)	10 U	10	2.0	10	03/28/19 17:57	
Vinyl Chloride	10 U	10	2.0	10	03/28/19 17:57	
cis-1,2-Dichloroethene	10 U	10	2.3	10	03/28/19 17:57	
trans-1,2-Dichloroethene	10 U	10	2.0	10	03/28/19 17:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	03/28/19 17:57	
Dibromofluoromethane	98	89 - 119	03/28/19 17:57	
Toluene-d8	95	87 - 121	03/28/19 17:57	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 12:15
Date Received: 03/21/19 07:35

Sample Name: MW-9
Lab Code: R1902432-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	03/28/19 18:19	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/28/19 18:19	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	03/28/19 18:19	
Tetrachloroethene (PCE)	10 U	10	2.1	10	03/28/19 18:19	
Trichloroethene (TCE)	5.3 J	10	2.0	10	03/28/19 18:19	
Vinyl Chloride	10 U	10	2.0	10	03/28/19 18:19	
cis-1,2-Dichloroethene	10 U	10	2.3	10	03/28/19 18:19	
trans-1,2-Dichloroethene	10 U	10	2.0	10	03/28/19 18:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	03/28/19 18:19	
Dibromofluoromethane	101	89 - 119	03/28/19 18:19	
Toluene-d8	98	87 - 121	03/28/19 18:19	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 14:20
Date Received: 03/21/19 07:35

Sample Name: FB 032019
Lab Code: R1902432-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	03/28/19 02:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/28/19 02:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 02:53	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/28/19 02:53	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/28/19 02:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 02:53	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/28/19 02:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 02:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/28/19 02:53	
Dibromofluoromethane	101	89 - 119	03/28/19 02:53	
Toluene-d8	100	87 - 121	03/28/19 02:53	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 14:40
Date Received: 03/21/19 07:35

Sample Name: MW-16
Lab Code: R1902432-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	8.9	1.0	0.21	1	03/28/19 04:11	
1,1-Dichloroethane (1,1-DCA)	18	1.0	0.20	1	03/28/19 04:11	
1,1-Dichloroethene (1,1-DCE)	0.47 J	1.0	0.25	1	03/28/19 04:11	
Tetrachloroethene (PCE)	0.23 J	1.0	0.21	1	03/28/19 04:11	
Trichloroethene (TCE)	18	1.0	0.20	1	03/28/19 04:11	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 04:11	
cis-1,2-Dichloroethene	68	1.0	0.23	1	03/28/19 04:11	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 04:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	03/28/19 04:11	
Dibromofluoromethane	101	89 - 119	03/28/19 04:11	
Toluene-d8	98	87 - 121	03/28/19 04:11	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 16:30
Date Received: 03/21/19 07:35

Sample Name: MW-8
Lab Code: R1902432-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	03/28/19 18:42	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/28/19 18:42	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	03/28/19 18:42	
Tetrachloroethene (PCE)	10 U	10	2.1	10	03/28/19 18:42	
Trichloroethene (TCE)	24	10	2.0	10	03/28/19 18:42	
Vinyl Chloride	10 U	10	2.0	10	03/28/19 18:42	
cis-1,2-Dichloroethene	92	10	2.3	10	03/28/19 18:42	
trans-1,2-Dichloroethene	10 U	10	2.0	10	03/28/19 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	03/28/19 18:42	
Dibromofluoromethane	100	89 - 119	03/28/19 18:42	
Toluene-d8	96	87 - 121	03/28/19 18:42	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19
Date Received: 03/21/19 07:35

Sample Name: DUP 032019
Lab Code: R1902432-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	8.7	1.0	0.21	1	03/28/19 04:52	
1,1-Dichloroethane (1,1-DCA)	18	1.0	0.20	1	03/28/19 04:52	
1,1-Dichloroethene (1,1-DCE)	0.54 J	1.0	0.25	1	03/28/19 04:52	
Tetrachloroethene (PCE)	0.30 J	1.0	0.21	1	03/28/19 04:52	
Trichloroethene (TCE)	16	1.0	0.20	1	03/28/19 04:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 04:52	
cis-1,2-Dichloroethene	59	1.0	0.23	1	03/28/19 04:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 04:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	03/28/19 04:52	
Dibromofluoromethane	100	89 - 119	03/28/19 04:52	
Toluene-d8	96	87 - 121	03/28/19 04:52	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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QA/QC Report

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

Service Request: R1902432

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
TB 032019	R1902432-001	93	100	100
MW-10	R1902432-002	94	101	99
MW-17	R1902432-003	90	98	95
MW-9	R1902432-004	91	101	98
FB 032019	R1902432-005	95	101	100
MW-16	R1902432-006	89	101	98
MW-8	R1902432-007	90	100	96
DUP 032019	R1902432-008	90	100	96
Method Blank	RQ1902672-04	95	103	101
Method Blank	RQ1902753-04	93	102	99
Lab Control Sample	RQ1902672-03	98	103	101
Lab Control Sample	RQ1902753-03	95	101	98

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19 23:32
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1902672-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-14
File ID: I:\ACQUDATA\MSVOA14\Data\032719\F5260.D\
Analysis Lot: 629686

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1902672-03	I:\ACQUDATA\MSVOA14\Data\032719\F5258.D\ I:\ACQUDATA\MSVOA14\Data\032719\F5268.D\ I:\ACQUDATA\MSVOA14\Data\032719\F5269.D\ I:\ACQUDATA\MSVOA14\Data\032719\F5270.D\ I:\ACQUDATA\MSVOA14\Data\032719\F5273.D\ I:\ACQUDATA\MSVOA14\Data\032719\F5275.D\ 	03/27/19 22:48
TB 032019	R1902432-001		03/28/19 02:31
FB 032019	R1902432-005		03/28/19 02:53
MW-10	R1902432-002		03/28/19 03:15
MW-16	R1902432-006		03/28/19 04:11
DUP 032019	R1902432-008		03/28/19 04:52

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19 13:00
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1902753-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-14
File ID: I:\ACQUDATA\MSVOA14\Data\032819\F5292.D\
Analysis Lot: 629878

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1902753-03	I:\ACQUDATA\MSVOA14\Data\032819\F5290.D\	03/28/19 12:07
MW-17	R1902432-003	I:\ACQUDATA\MSVOA14\Data\032819\F5305.D\	03/28/19 17:57
MW-9	R1902432-004	I:\ACQUDATA\MSVOA14\Data\032819\F5306.D\	03/28/19 18:19
MW-8	R1902432-007	I:\ACQUDATA\MSVOA14\Data\032819\F5307.D\	03/28/19 18:42

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Analytical Report

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

Service Request: R1902432
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1902672-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	03/27/19 23:32	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/27/19 23:32	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/27/19 23:32	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/27/19 23:32	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/27/19 23:32	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/27/19 23:32	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/27/19 23:32	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/27/19 23:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/27/19 23:32	
Dibromofluoromethane	103	89 - 119	03/27/19 23:32	
Toluene-d8	101	87 - 121	03/27/19 23:32	

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Analytical Report

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

Service Request: R1902432
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1902753-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	03/28/19 13:00	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/28/19 13:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 13:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/28/19 13:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/28/19 13:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 13:00	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/28/19 13:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/28/19 13:00	
Dibromofluoromethane	102	89 - 119	03/28/19 13:00	
Toluene-d8	99	87 - 121	03/28/19 13:00	

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19 22:48
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:** R-MS-14
Lab Code: RQ1902672-03 **File ID:** I:\ACQUDATA\MSVOA14\Data\032719\F5258.D\
Analysis Method: 8260C **Analysis Lot:** 629686
Prep Method: EPA 5030C

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1902672-04	I:\ACQUDATA\MSVOA14\Data\032719\F5260.D\ \F5260.D\	03/27/19 23:32
TB 032019	R1902432-001	I:\ACQUDATA\MSVOA14\Data\032719\F5268.D\ \F5268.D\	03/28/19 02:31
FB 032019	R1902432-005	I:\ACQUDATA\MSVOA14\Data\032719\F5269.D\ \F5269.D\	03/28/19 02:53
MW-10	R1902432-002	I:\ACQUDATA\MSVOA14\Data\032719\F5270.D\ \F5270.D\	03/28/19 03:15
MW-16	R1902432-006	I:\ACQUDATA\MSVOA14\Data\032719\F5273.D\ \F5273.D\	03/28/19 04:11
DUP 032019	R1902432-008	I:\ACQUDATA\MSVOA14\Data\032719\F5275.D\ \F5275.D\	03/28/19 04:52

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19 12:07
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ1902753-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-14
File ID: I:\ACQUDATA\MSVOA14\Data\032819\F5290.D\
Analysis Lot: 629878

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1902753-04	I:\ACQUDATA\MSVOA14\Data\032819\F5292.D\	03/28/19 13:00
MW-17	R1902432-003	I:\ACQUDATA\MSVOA14\Data\032819\F5305.D\	03/28/19 17:57
MW-9	R1902432-004	I:\ACQUDATA\MSVOA14\Data\032819\F5306.D\	03/28/19 18:19
MW-8	R1902432-007	I:\ACQUDATA\MSVOA14\Data\032819\F5307.D\	03/28/19 18:42

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1902672-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.9	20.0	99	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	20.2	20.0	101	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.1	20.0	101	71-118
Tetrachloroethene (PCE)	8260C	17.9	20.0	90	72-125
Trichloroethene (TCE)	8260C	19.3	20.0	97	74-122
Vinyl Chloride	8260C	20.0	20.0	100	74-159
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	80-121
trans-1,2-Dichloroethene	8260C	19.7	20.0	98	73-118

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1902753-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.4	20.0	92	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	19.1	20.0	96	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.5	20.0	93	71-118
Tetrachloroethene (PCE)	8260C	16.7	20.0	83	72-125
Trichloroethene (TCE)	8260C	17.4	20.0	87	74-122
Vinyl Chloride	8260C	18.6	20.0	93	74-159
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	80-121
trans-1,2-Dichloroethene	8260C	18.2	20.0	91	73-118

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19 22:03

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\032719\F5256.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 629686

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.62	22640	Pass
75	95	30	60	48.91	62848	Pass
95	95	100	100	100.00	128501	Pass
96	95	5	9	6.58	8454	Pass
173	174	0	2	0.57	611	Pass
174	95	50	120	84.15	108136	Pass
175	174	5	9	7.58	8199	Pass
176	174	95	101	96.53	104389	Pass
177	176	5	9	6.95	7255	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1902672-02	I:\ACQUDATA\MSVOA14\Data\032719\F5257.D\	03/27/19 22:26	
Lab Control Sample	RQ1902672-03	I:\ACQUDATA\MSVOA14\Data\032719\F5258.D\	03/27/19 22:48	
Method Blank	RQ1902672-04	I:\ACQUDATA\MSVOA14\Data\032719\F5260.D\	03/27/19 23:32	
TB 032019	R1902432-001	I:\ACQUDATA\MSVOA14\Data\032719\F5268.D\	03/28/19 02:31	
FB 032019	R1902432-005	I:\ACQUDATA\MSVOA14\Data\032719\F5269.D\	03/28/19 02:53	
MW-10	R1902432-002	I:\ACQUDATA\MSVOA14\Data\032719\F5270.D\	03/28/19 03:15	
MW-16	R1902432-006	I:\ACQUDATA\MSVOA14\Data\032719\F5273.D\	03/28/19 04:11	
DUP 032019	R1902432-008	I:\ACQUDATA\MSVOA14\Data\032719\F5275.D\	03/28/19 04:52	

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QC/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19 10:59

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\032819\F5288.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 629878

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.36	23115	Pass
75	95	30	60	47.47	59779	Pass
95	95	100	100	100.00	125923	Pass
96	95	5	9	6.80	8562	Pass
173	174	0	2	0.89	927	Pass
174	95	50	120	83.15	104709	Pass
175	174	5	9	7.44	7793	Pass
176	174	95	101	96.94	101504	Pass
177	176	5	9	6.72	6817	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1902753-02	I:\ACQUDATA\MSVOA14\Data\032819\F5289.D\	03/28/19 11:33	
Lab Control Sample	RQ1902753-03	I:\ACQUDATA\MSVOA14\Data\032819\F5290.D\	03/28/19 12:07	
Method Blank	RQ1902753-04	I:\ACQUDATA\MSVOA14\Data\032819\F5292.D\	03/28/19 13:00	
MW-17	R1902432-003	I:\ACQUDATA\MSVOA14\Data\032819\F5305.D\	03/28/19 17:57	
MW-9	R1902432-004	I:\ACQUDATA\MSVOA14\Data\032819\F5306.D\	03/28/19 18:19	
MW-8	R1902432-007	I:\ACQUDATA\MSVOA14\Data\032819\F5307.D\	03/28/19 18:42	

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19 22:26

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

File ID: I:\ACQUDATA\MSVOA14\Data\032719\F5257.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1902672-02
Analysis Lot: 629686
Signal ID: 1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	191,526	11.73	397,721	5.94	348,703	9.58
Upper Limit ==>	383,052	12.23	795,442	6.44	697,406	10.08
Lower Limit ==>	95,763	11.23	198,861	5.44	174,352	9.08

Associated Analyses

Lab Control Sample	RQ1902672-03	188001	11.73	401857	5.94	352491	9.58
Method Blank	RQ1902672-04	176156	11.73	391482	5.94	342406	9.58
TB 032019	R1902432-001	175955	11.73	388190	5.94	338806	9.58
FB 032019	R1902432-005	175781	11.73	386485	5.94	339466	9.58
MW-10	R1902432-002	177254	11.73	384984	5.94	336286	9.58
MW-16	R1902432-006	163321	11.73	377297	5.95	324392	9.58
DUP 032019	R1902432-008	172909	11.73	378287	5.94	330708	9.58

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19 22:26

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

File ID: I:\ACQUDATA\MSVOA14\Data\032719\F5257.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1902672-02
Analysis Lot: 629686
Signal ID: 1

	Pentafluorobenzene	
	Area	RT
Result ==>	268,205	4.69
Upper Limit ==>	536,410	5.19
Lower Limit ==>	134,103	4.19

Associated Analyses

Lab Control Sample	RQ1902672-03	271176	4.69
Method Blank	RQ1902672-04	264083	4.69
TB 032019	R1902432-001	262040	4.69
FB 032019	R1902432-005	258898	4.69
MW-10	R1902432-002	255958	4.69
MW-16	R1902432-006	254783	4.69
DUP 032019	R1902432-008	254705	4.69

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19 11:33

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

File ID: I:\ACQUDATA\MSVOA14\Data\032819\F5289.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1902753-02
Analysis Lot: 629878
Signal ID: 1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	198,678	11.73	412,817	5.94	364,901	9.58
Upper Limit ==>	397,356	12.23	825,634	6.44	729,802	10.08
Lower Limit ==>	99,339	11.23	206,409	5.44	182,451	9.08

Associated Analyses

Lab Control Sample	RQ1902753-03	193071	11.73	412613	5.94	362013	9.58
Method Blank	RQ1902753-04	175028	11.73	393060	5.94	348461	9.58
MW-17	R1902432-003	175872	11.73	385158	5.94	338329	9.58
MW-9	R1902432-004	175631	11.73	388278	5.94	341951	9.58
MW-8	R1902432-007	179168	11.73	390939	5.94	344687	9.58

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19 11:33

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

File ID: I:\ACQUDATA\MSVOA14\Data\032819\F5289.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1902753-02
Analysis Lot: 629878
Signal ID: 1

	Pentafluorobenzene	
	Area	RT
Result ==>	278,652	4.68
Upper Limit ==>	557,304	5.18
Lower Limit ==>	139,326	4.18

Associated Analyses

Lab Control Sample	RQ1902753-03	275628	4.69
Method Blank	RQ1902753-04	264571	4.69
MW-17	R1902432-003	257816	4.69
MW-9	R1902432-004	260503	4.69
MW-8	R1902432-007	261953	4.69



Raw Data

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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dba ALS Environmental

Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19
Date Received: 03/21/19 07:35

Sample Name: TB 032019
Lab Code: R1902432-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	03/28/19 02:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/28/19 02:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 02:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/28/19 02:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/28/19 02:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 02:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/28/19 02:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 02:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/28/19 02:31	
Dibromofluoromethane	100	89 - 119	03/28/19 02:31	
Toluene-d8	100	87 - 121	03/28/19 02:31	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 08:50
Date Received: 03/21/19 07:35

Sample Name: MW-10
Lab Code: R1902432-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.70 J	1.0	0.21	1	03/28/19 03:15	
1,1-Dichloroethane (1,1-DCA)	0.43 J	1.0	0.20	1	03/28/19 03:15	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 03:15	
Tetrachloroethene (PCE)	0.52 J	1.0	0.21	1	03/28/19 03:15	
Trichloroethene (TCE)	7.0	1.0	0.20	1	03/28/19 03:15	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 03:15	
cis-1,2-Dichloroethene	2.0	1.0	0.23	1	03/28/19 03:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 03:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/28/19 03:15	
Dibromofluoromethane	101	89 - 119	03/28/19 03:15	
Toluene-d8	99	87 - 121	03/28/19 03:15	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 10:35
Date Received: 03/21/19 07:35

Sample Name: MW-17
Lab Code: R1902432-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	03/28/19 17:57	
1,1-Dichloroethane (1,1-DCA)	3.2 J	10	2.0	10	03/28/19 17:57	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	03/28/19 17:57	
Tetrachloroethene (PCE)	10 U	10	2.1	10	03/28/19 17:57	
Trichloroethene (TCE)	10 U	10	2.0	10	03/28/19 17:57	
Vinyl Chloride	10 U	10	2.0	10	03/28/19 17:57	
cis-1,2-Dichloroethene	10 U	10	2.3	10	03/28/19 17:57	
trans-1,2-Dichloroethene	10 U	10	2.0	10	03/28/19 17:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	03/28/19 17:57	
Dibromofluoromethane	98	89 - 119	03/28/19 17:57	
Toluene-d8	95	87 - 121	03/28/19 17:57	

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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 12:15
Date Received: 03/21/19 07:35

Sample Name: MW-9
Lab Code: R1902432-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	03/28/19 18:19	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/28/19 18:19	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	03/28/19 18:19	
Tetrachloroethene (PCE)	10 U	10	2.1	10	03/28/19 18:19	
Trichloroethene (TCE)	5.3 J	10	2.0	10	03/28/19 18:19	
Vinyl Chloride	10 U	10	2.0	10	03/28/19 18:19	
cis-1,2-Dichloroethene	10 U	10	2.3	10	03/28/19 18:19	
trans-1,2-Dichloroethene	10 U	10	2.0	10	03/28/19 18:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	03/28/19 18:19	
Dibromofluoromethane	101	89 - 119	03/28/19 18:19	
Toluene-d8	98	87 - 121	03/28/19 18:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 14:20
Date Received: 03/21/19 07:35

Sample Name: FB 032019
Lab Code: R1902432-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	03/28/19 02:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/28/19 02:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	03/28/19 02:53	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/28/19 02:53	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	03/28/19 02:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 02:53	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	03/28/19 02:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 02:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/28/19 02:53	
Dibromofluoromethane	101	89 - 119	03/28/19 02:53	
Toluene-d8	100	87 - 121	03/28/19 02:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 14:40
Date Received: 03/21/19 07:35

Sample Name: MW-16
Lab Code: R1902432-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	8.9	1.0	0.21	1	03/28/19 04:11	
1,1-Dichloroethane (1,1-DCA)	18	1.0	0.20	1	03/28/19 04:11	
1,1-Dichloroethene (1,1-DCE)	0.47 J	1.0	0.25	1	03/28/19 04:11	
Tetrachloroethene (PCE)	0.23 J	1.0	0.21	1	03/28/19 04:11	
Trichloroethene (TCE)	18	1.0	0.20	1	03/28/19 04:11	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 04:11	
cis-1,2-Dichloroethene	68	1.0	0.23	1	03/28/19 04:11	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 04:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	03/28/19 04:11	
Dibromofluoromethane	101	89 - 119	03/28/19 04:11	
Toluene-d8	98	87 - 121	03/28/19 04:11	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19 16:30
Date Received: 03/21/19 07:35

Sample Name: MW-8
Lab Code: R1902432-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	03/28/19 18:42	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	03/28/19 18:42	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	03/28/19 18:42	
Tetrachloroethene (PCE)	10 U	10	2.1	10	03/28/19 18:42	
Trichloroethene (TCE)	24	10	2.0	10	03/28/19 18:42	
Vinyl Chloride	10 U	10	2.0	10	03/28/19 18:42	
cis-1,2-Dichloroethene	92	10	2.3	10	03/28/19 18:42	
trans-1,2-Dichloroethene	10 U	10	2.0	10	03/28/19 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	03/28/19 18:42	
Dibromofluoromethane	100	89 - 119	03/28/19 18:42	
Toluene-d8	96	87 - 121	03/28/19 18:42	

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dba ALS Environmental

Analytical Report

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

Service Request: R1902432
Date Collected: 03/20/19
Date Received: 03/21/19 07:35

Sample Name: DUP 032019
Lab Code: R1902432-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	8.7	1.0	0.21	1	03/28/19 04:52	
1,1-Dichloroethane (1,1-DCA)	18	1.0	0.20	1	03/28/19 04:52	
1,1-Dichloroethene (1,1-DCE)	0.54 J	1.0	0.25	1	03/28/19 04:52	
Tetrachloroethene (PCE)	0.30 J	1.0	0.21	1	03/28/19 04:52	
Trichloroethene (TCE)	16	1.0	0.20	1	03/28/19 04:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	03/28/19 04:52	
cis-1,2-Dichloroethene	59	1.0	0.23	1	03/28/19 04:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	03/28/19 04:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	03/28/19 04:52	
Dibromofluoromethane	100	89 - 119	03/28/19 04:52	
Toluene-d8	96	87 - 121	03/28/19 04:52	

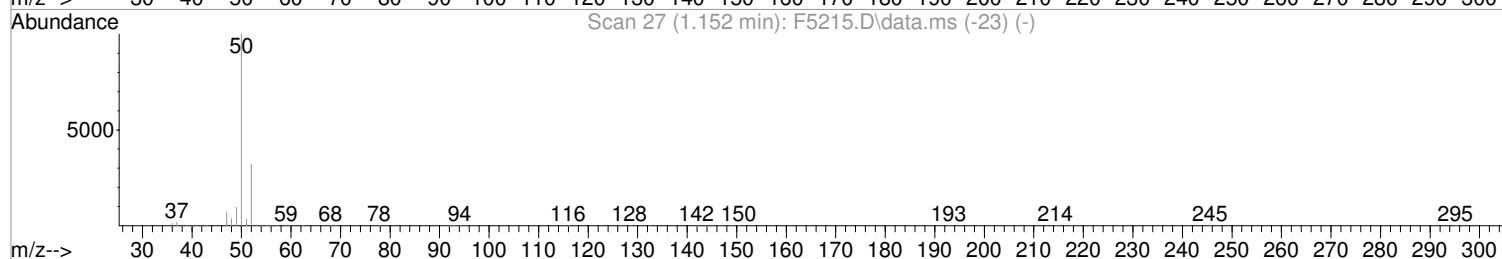
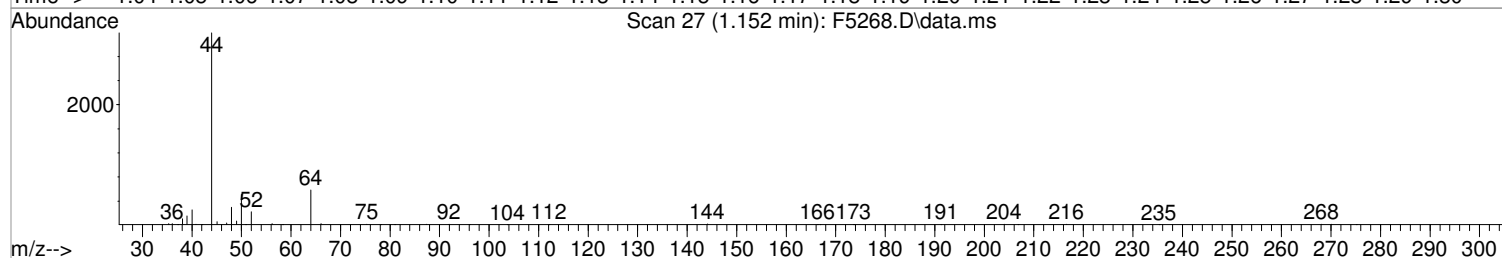
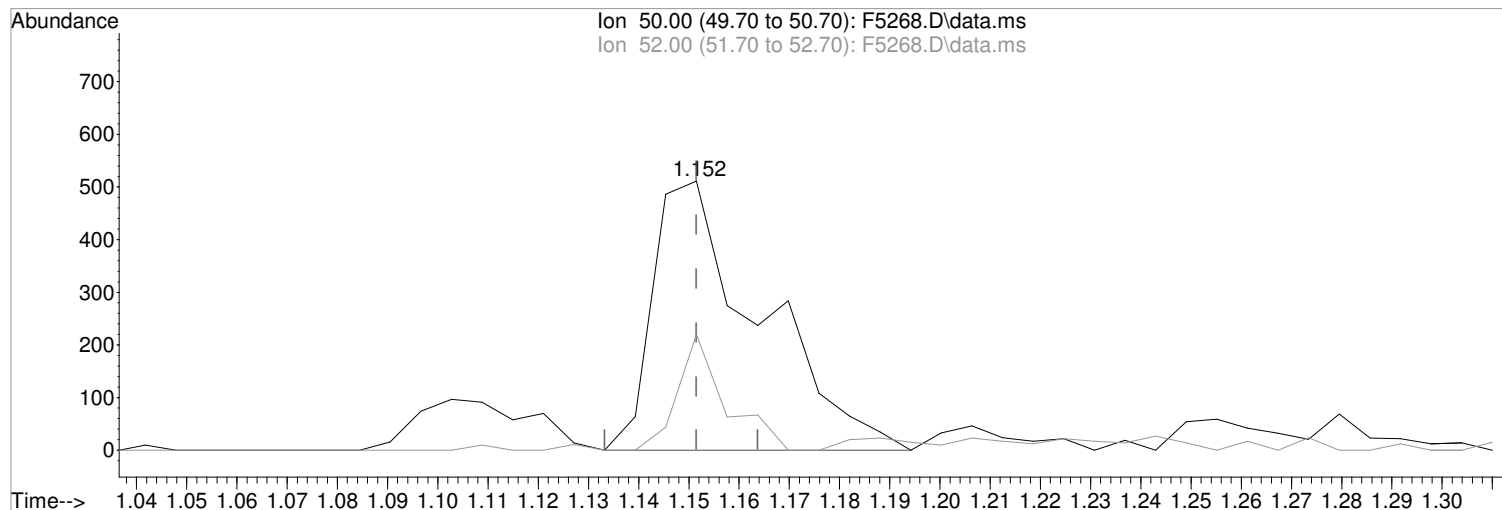
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5268.D
Acq On : 28 Mar 2019 2:31 am
Operator : F.NAEGLER
Sample : R1902432-001|1.0
Misc : VERINA 6646 T4
ALS Vial : 42 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:04:32 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5268.D\data.ms

(3) Chloromethane (P)

1.152min (-0.000) 0.22 ug/L m

response 755

Ion	Exp%	Act%
50.00	100	100
52.00	31.90	43.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

03/31/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5268.D
 Acq On : 28 Mar 2019 2:31 am
 Operator : F.NAEGLER
 Sample : R1902432-001|1.0
 Misc : VERINA 6646 T4
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Inst : MSVOA14

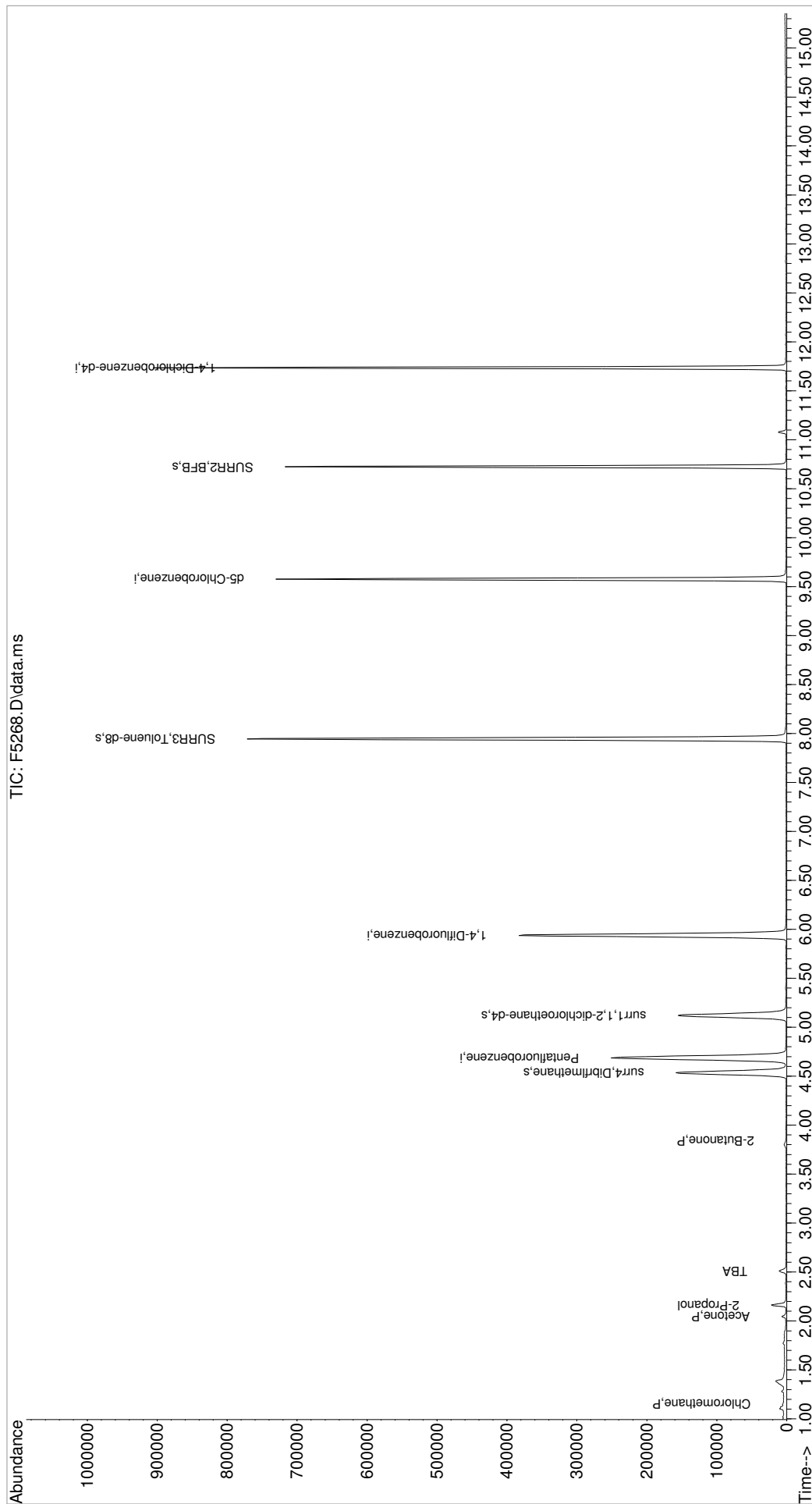
Quant Time: Mar 31 12:22:46 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

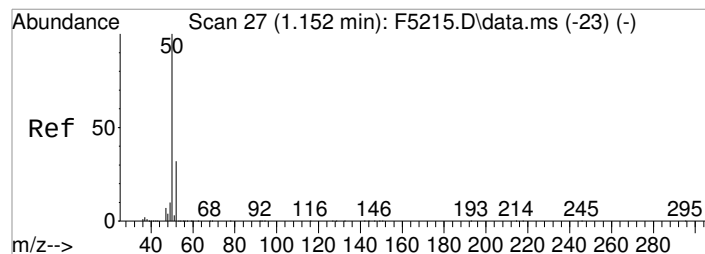
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	262040	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	388190	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	338806	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	175955	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	129428	50.03	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.06%	
47) surr1,1,2-dichloroetha...	5.120	65	154706	51.03	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	102.06%	
64) SURR3,Toluene-d8	7.943	98	514223	49.80	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.60%	
69) SURR2,BFB	10.723	95	185530	46.40	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	92.80%	
Target Compounds						
3) Chloromethane	1.152	50	755m	0.22	ug/L	Qvalue
5) Bromomethane	1.408	94	339	Below	Cal	88
15) Acetone	2.048	43	5110	3.99	ug/L	89
16) 2-Propanol	2.164	45	21691	76.13	ug/L	96
23) TBA	2.511	59	8560	17.90	ug/L	96
34) 2-Butanone	3.840	43	611	0.32	ug/L	82

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

Data Path : I:\ACQUDATA\MSV0A14\Data\032719\
 Data File : F5268.D
 Acq On : 28 Mar 2019 2:31 am
 Operator : F.NAEGLER
 Sample : R1902432-001|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 42 Sample Multiplier: 1
 Inst : MSV0A14

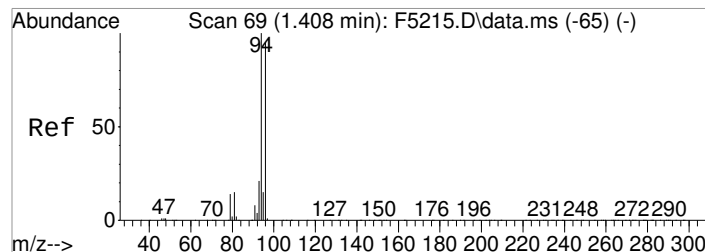
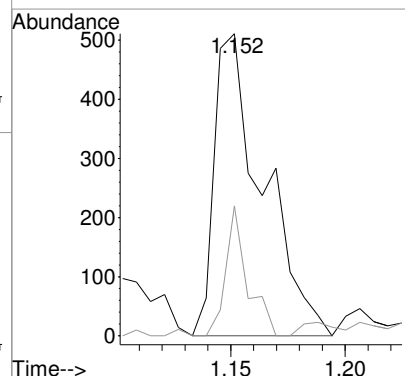
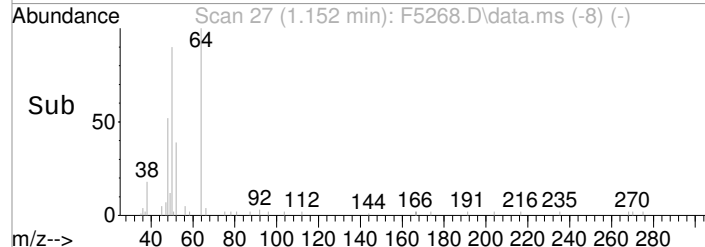
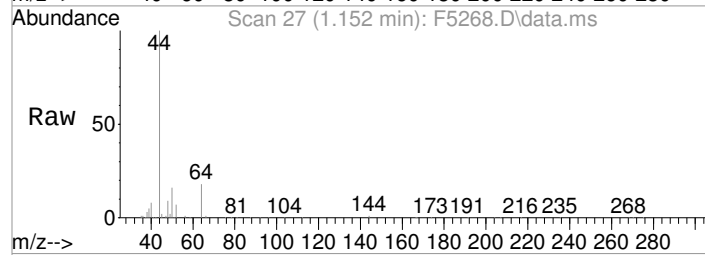
Quant Time: Mar 31 12:22:46 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration





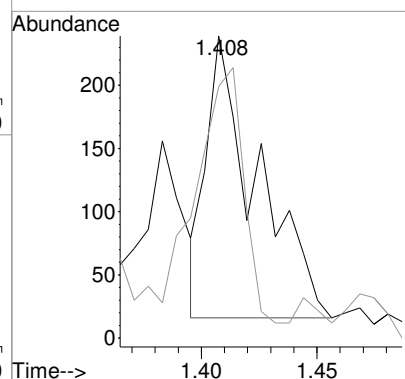
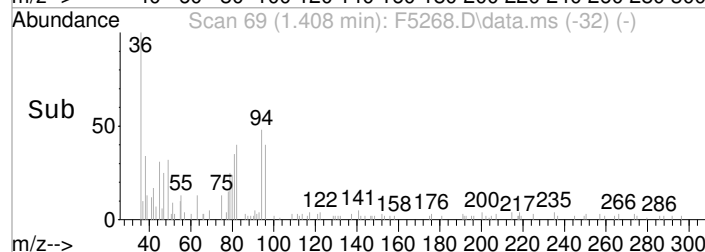
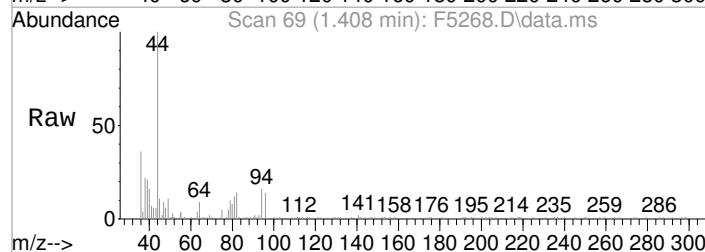
#3
 Chloromethane
 Concen: 0.22 ug/L m
 RT: 1.152 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: F5268.D
 Acq: 28 Mar 2019 2:31 am

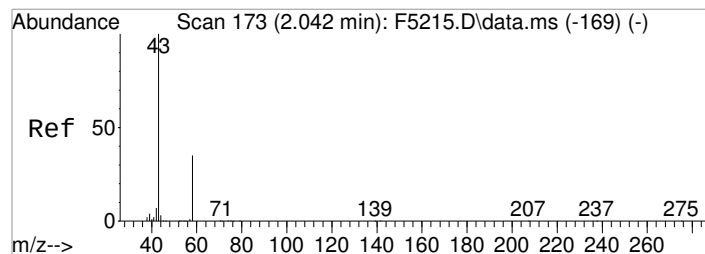
Tgt Ion: 50 Resp: 755
 Ion Ratio Lower Upper
 50 100
 52 43.1 11.9 51.9



#5
 Bromomethane
 Concen: Below Cal
 RT: 1.408 min Scan# 69
 Delta R.T. 0.001 min
 Lab File: F5268.D
 Acq: 28 Mar 2019 2:31 am

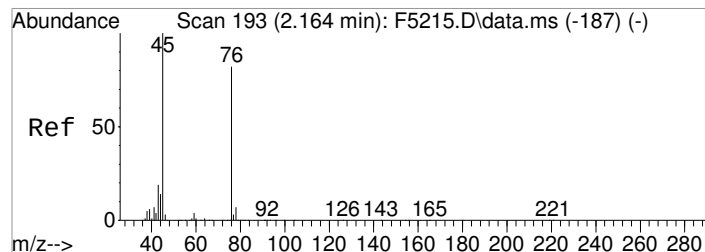
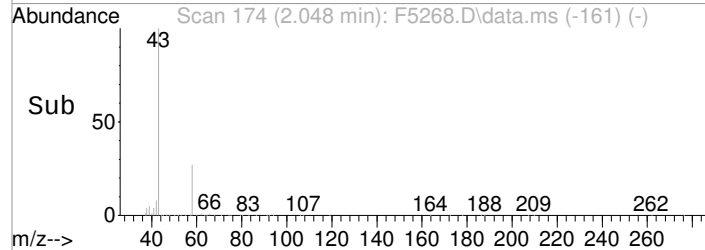
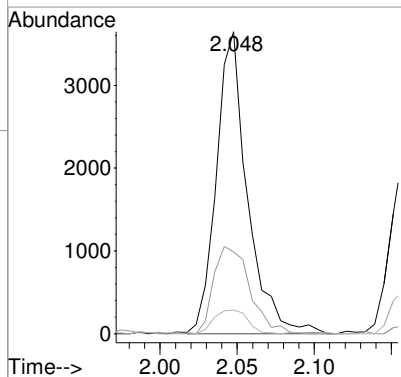
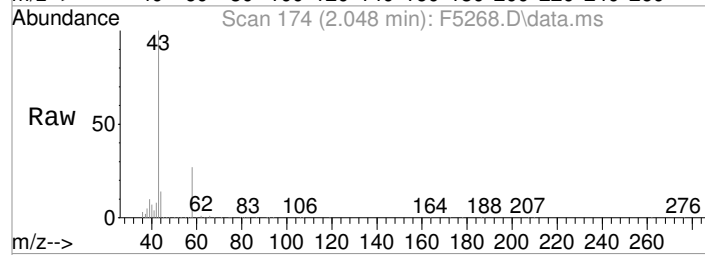
Tgt Ion: 94 Resp: 339
 Ion Ratio Lower Upper
 94 100
 96 83.3 74.5 114.5





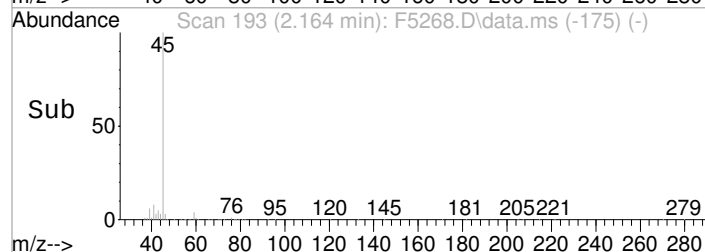
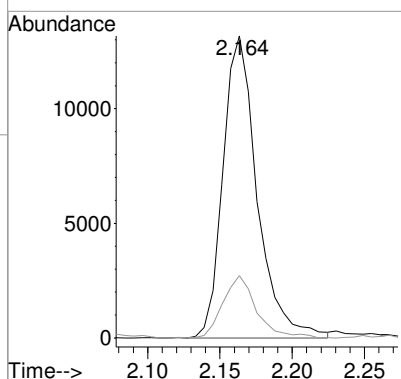
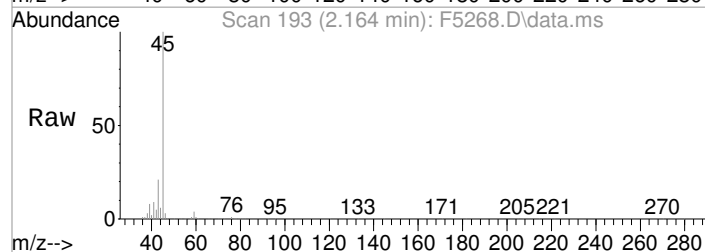
#15
 Acetone
 Concen: 3.99 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.007 min
 Lab File: F5268.D
 Acq: 28 Mar 2019 2:31 am

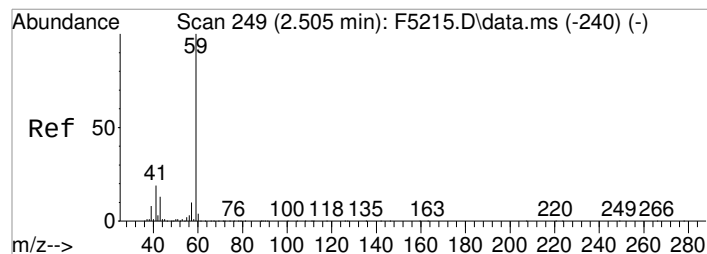
Tgt Ion: 43 Resp: 5110
 Ion Ratio Lower Upper
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 58 27.1 14.7 54.7
 42 7.9 0.0 27.4



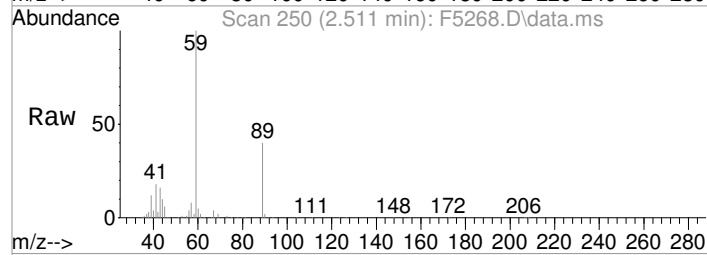
#16
 2-Propanol
 Concen: 76.13 ug/L
 RT: 2.164 min Scan# 193
 Delta R.T. 0.001 min
 Lab File: F5268.D
 Acq: 28 Mar 2019 2:31 am

Tgt Ion: 45 Resp: 21691
 Ion Ratio Lower Upper
 45 100
 43 20.7 0.0 38.9

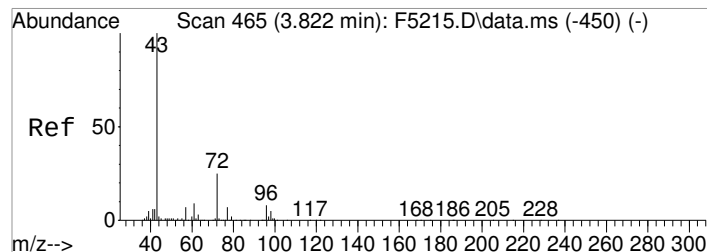
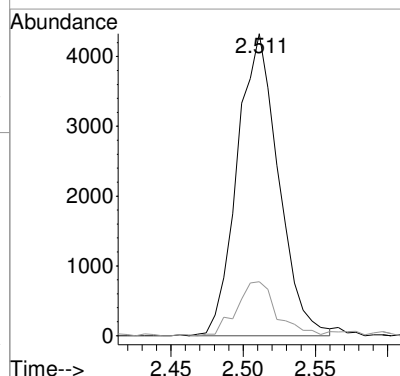
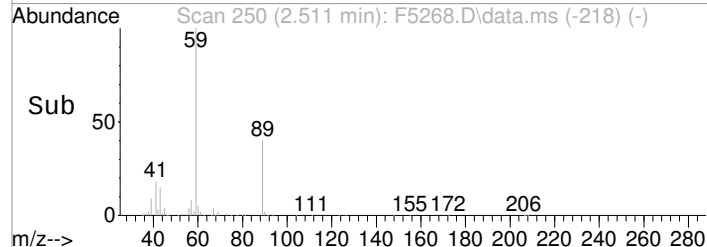




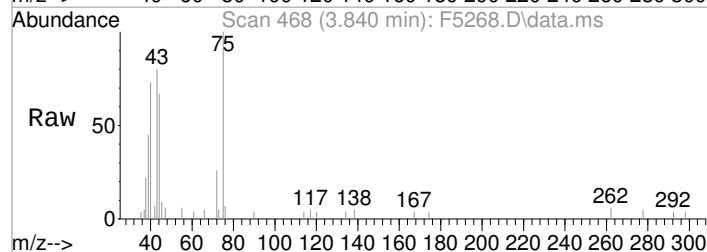
#23
 TBA
 Concen: 17.90 ug/L
 RT: 2.511 min Scan# 250
 Delta R.T. 0.007 min
 Lab File: F5268.D
 Acq: 28 Mar 2019 2:31 am



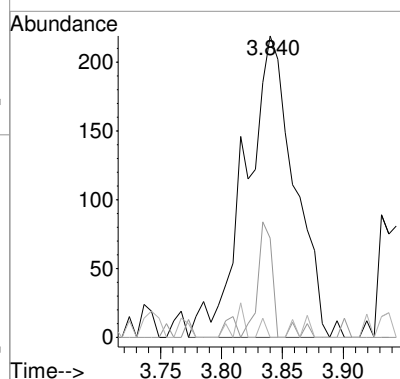
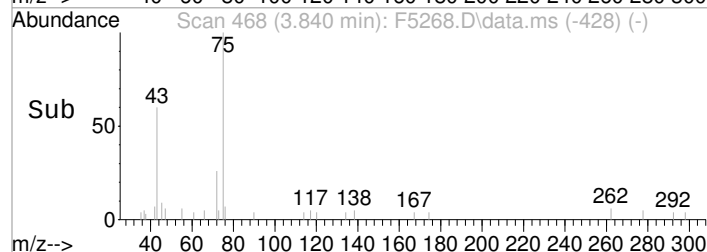
Tgt Ion: 59 Resp: 8560
 Ion Ratio Lower Upper
 59 100
 41 17.8 0.0 39.5



#34
 2-Butanone
 Concen: 0.32 ug/L
 RT: 3.840 min Scan# 468
 Delta R.T. 0.018 min
 Lab File: F5268.D
 Acq: 28 Mar 2019 2:31 am



Tgt Ion: 43 Resp: 611
 Ion Ratio Lower Upper
 43 100
 72 32.9 4.8 44.8
 57 0.0 0.0 27.7



Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5270.D
 Acq On : 28 Mar 2019 3:15 am
 Operator : F.NAEGLER
 Sample : R1902432-002|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA14

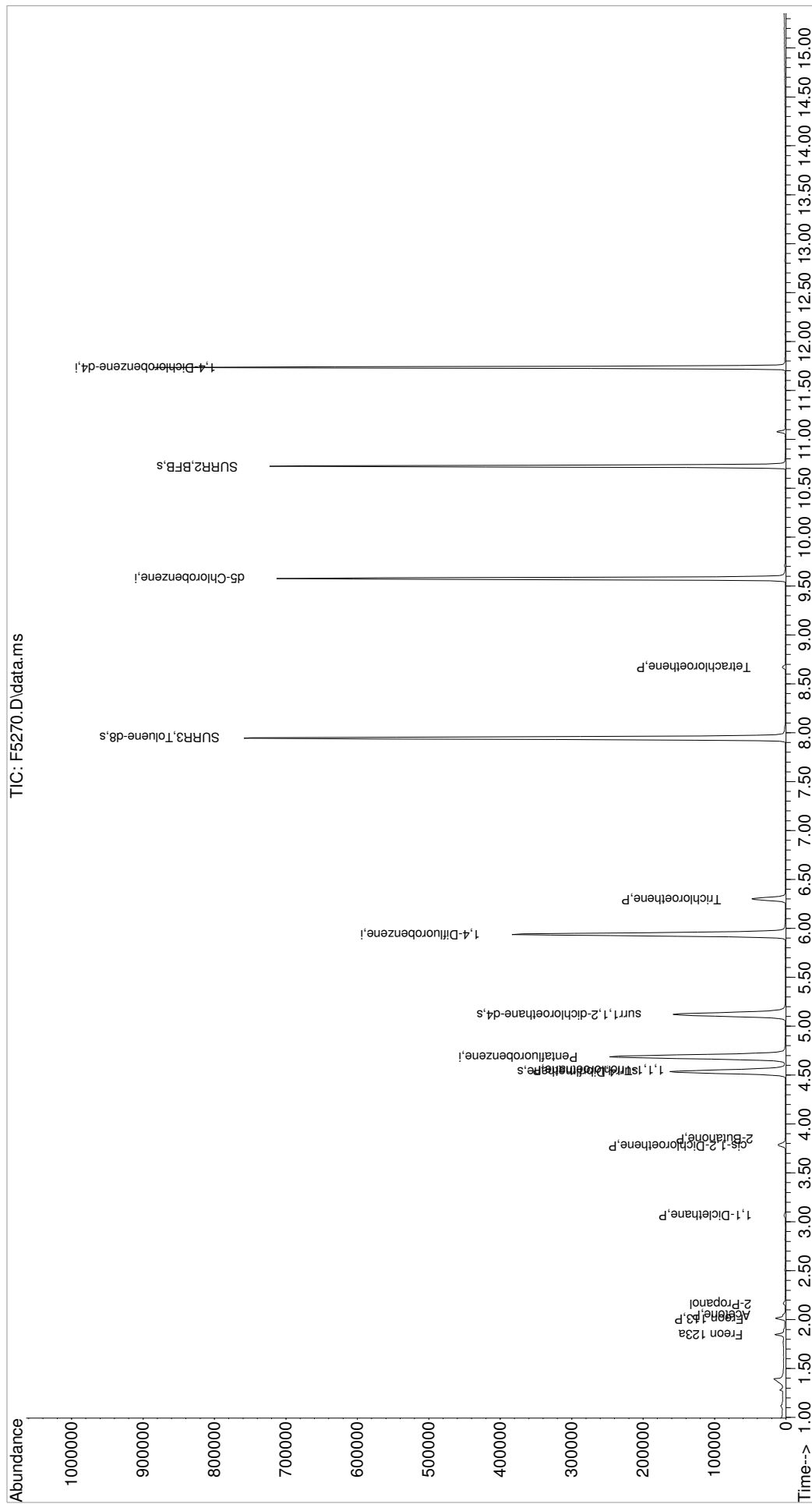
Quant Time: Mar 31 12:25:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

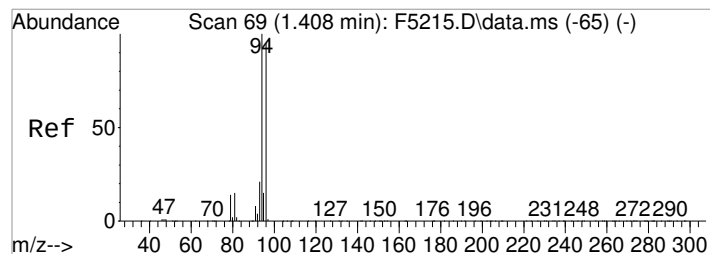
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	255958	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	384984	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	336286	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	177254	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	130018	50.68	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	101.36%	
47) surr1,1,2-dichloroetha...	5.120	65	153298	50.99	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.98%	
64) SURR3,Toluene-d8	7.949	98	508892	49.70	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.40%	
69) SURR2,BFB	10.723	95	187213	47.21	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.42%	
Target Compounds						
5) Bromomethane	1.414	94	338	Below Cal	#	57
10) Freon 123a	1.847	67	4489	1.69	ug/L	88
14) Freon 113	2.011	101	4573	2.36	ug/L	# 75
15) Acetone	2.048	43	3240	2.59	ug/L	95
16) 2-Propanol	2.164	45	2718	9.77	ug/L	82
27) 1,1-Dicethane	3.066	63	1884	0.43	ug/L	89
33) cis-1,2-Dichloroethene	3.779	96	5547	2.01	ug/L	# 78
34) 2-Butanone	3.852	43	644	0.35	ug/L	88
40) 1,1,1-Trichloroethane	4.547	97	2377	0.70	ug/L	80
53) Trichloroethene	6.297	130	19327	6.97	ug/L	92
71) Tetrachloroethene	8.674	164	1145	0.52	ug/L	# 77

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

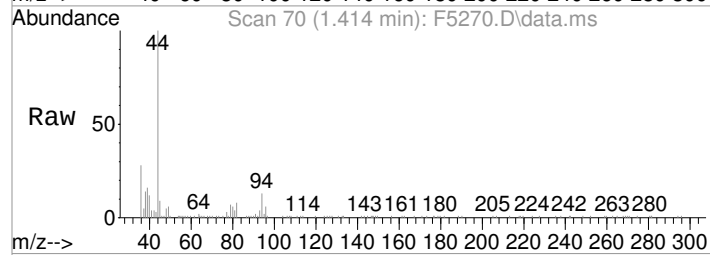
Data Path : I:\ACQUDATA\MSV0A14\Data\032719\
Data File : F5270.D
Acq On : 28 Mar 2019 3:15 am
Operator : F.NAEGLER
Sample : R1902432-002|1.0
Misc : VERINA 6646 T4
ALS Vial : 44 Sample Multiplier: 1
Inst : MSV0A14

Quant Time: Mar 31 12:25:16 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

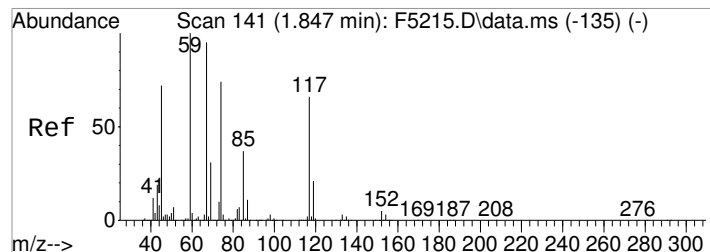
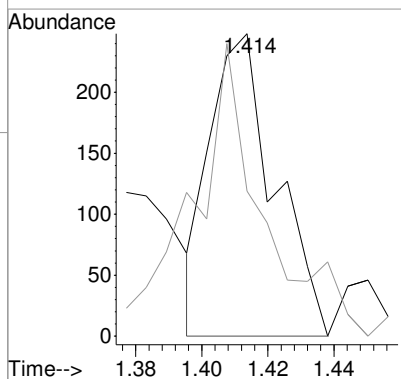
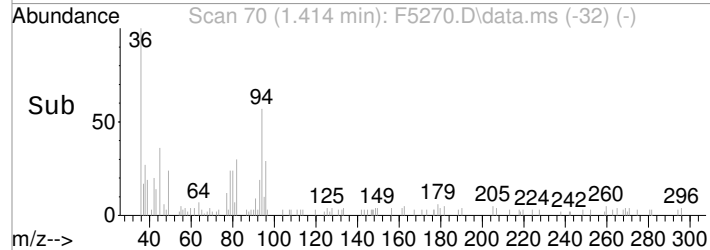




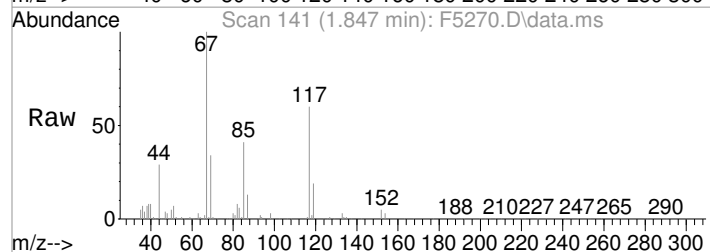
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.414 min Scan# 70
 Delta R.T. 0.007 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am



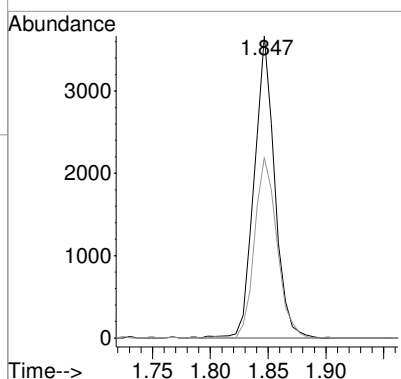
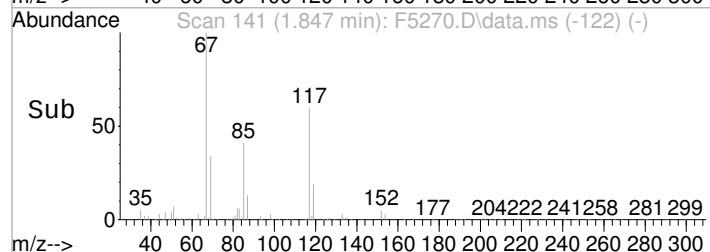
Tgt Ion: 94 Resp: 338
 Ion Ratio Lower Upper
 94 100
 96 52.4 74.5 114.5#

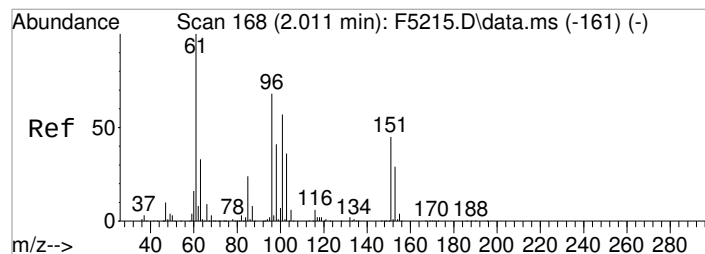


#10
 Freon 123a
 Concen: 1.69 ug/L
 RT: 1.847 min Scan# 141
 Delta R.T. 0.000 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am



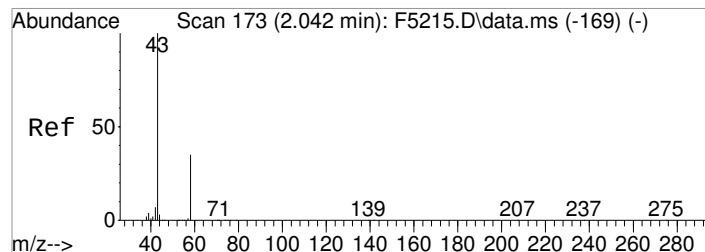
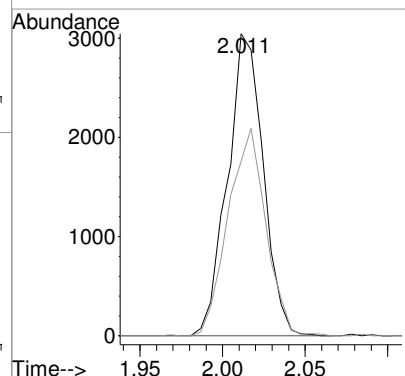
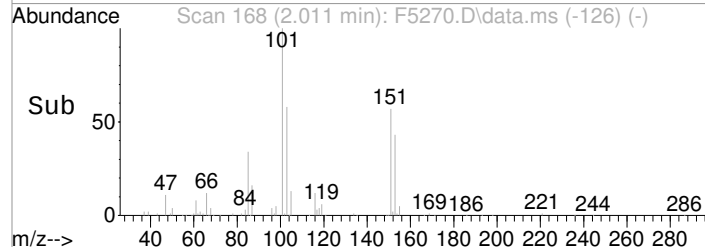
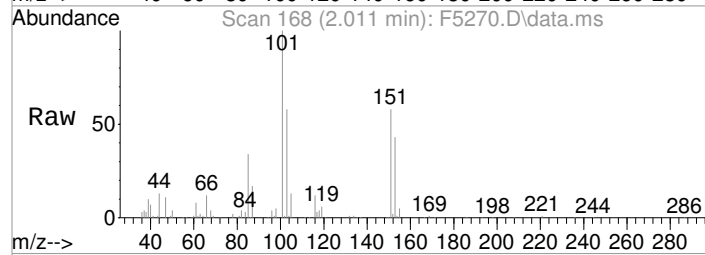
Tgt Ion: 67 Resp: 4489
 Ion Ratio Lower Upper
 67 100
 117 59.7 49.9 89.9





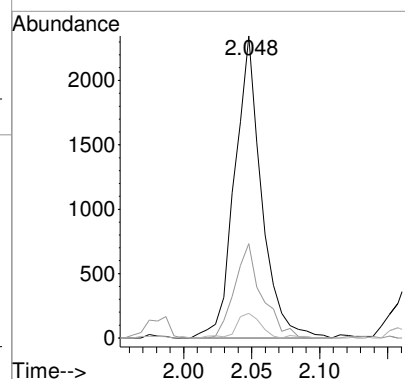
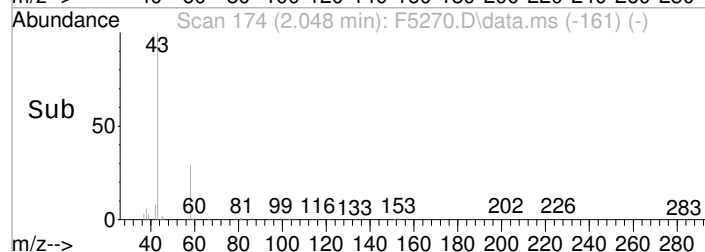
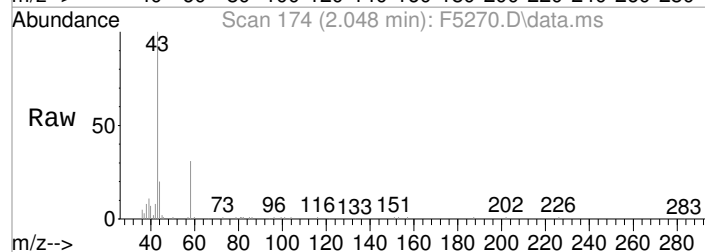
#14
 Freon 113
 Concen: 2.36 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. 0.000 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

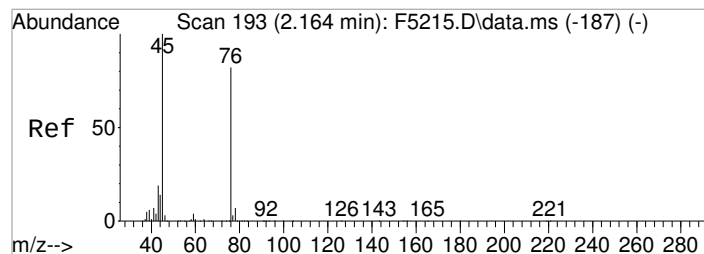
Tgt Ion: 101 Resp: 4573
 Ion Ratio Lower Upper
 101 100
 151 57.8 59.4 99.4#



#15
 Acetone
 Concen: 2.59 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.007 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

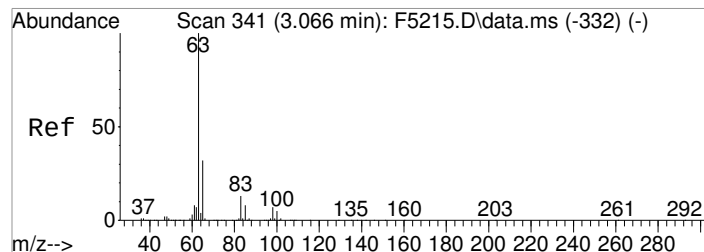
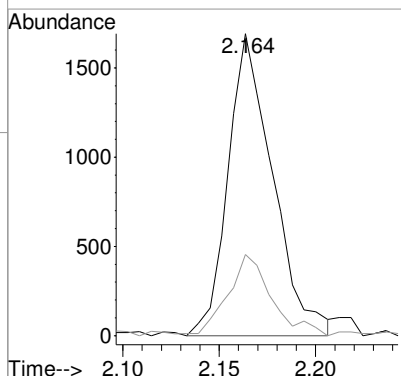
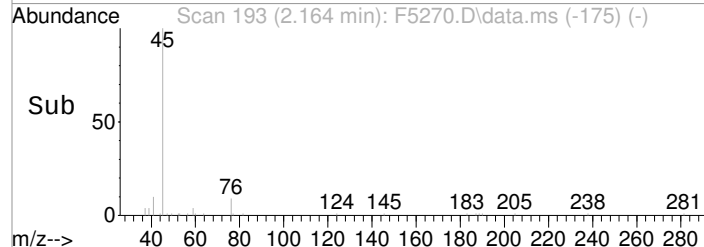
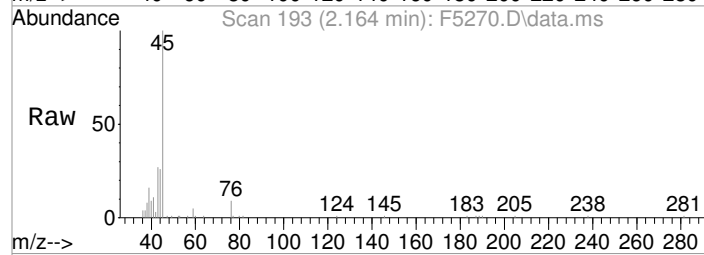
Tgt Ion: 43 Resp: 3240
 Ion Ratio Lower Upper
 43 100
 58 31.2 14.7 54.7
 42 8.1 0.0 27.4





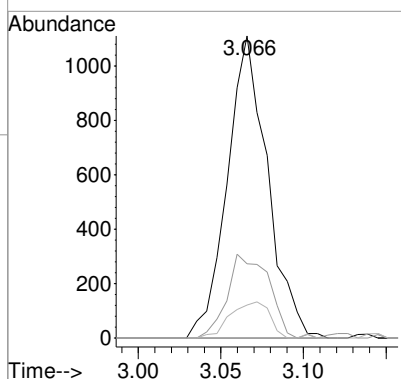
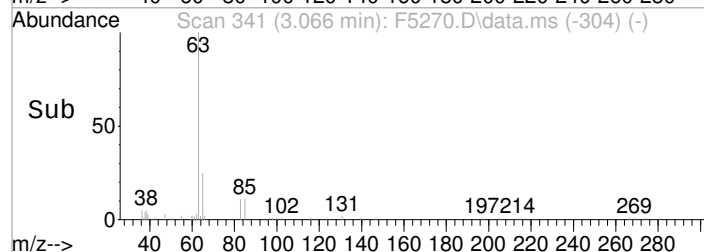
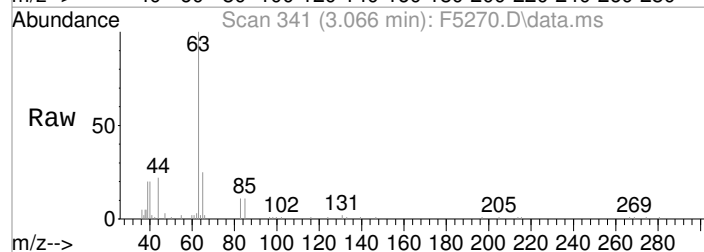
#16
 2-Propanol
 Concen: 9.77 ug/L
 RT: 2.164 min Scan# 193
 Delta R.T. 0.001 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

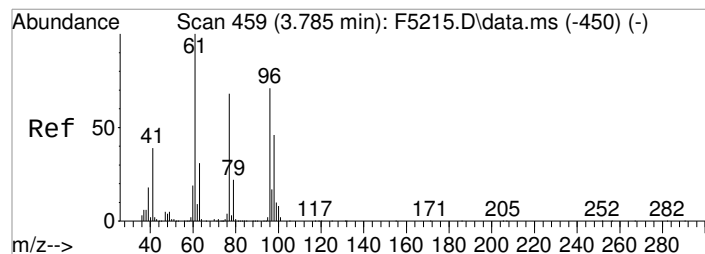
Tgt Ion: 45 Resp: 2718
 Ion Ratio Lower Upper
 45 100
 43 26.9 0.0 38.9



#27
 1,1-Dicethane
 Concen: 0.43 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

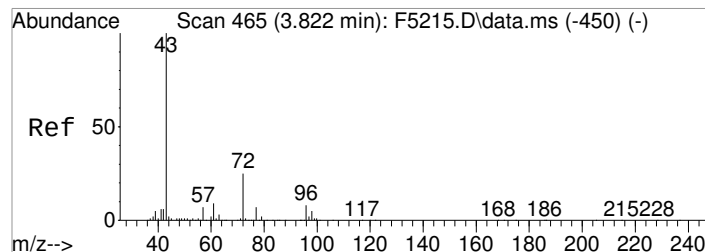
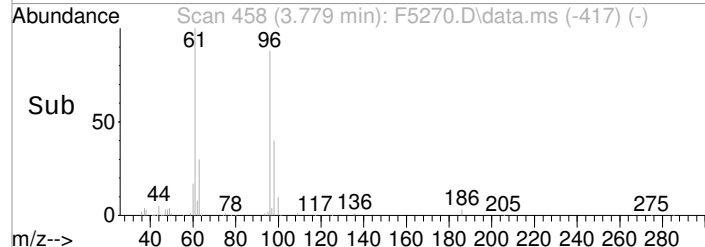
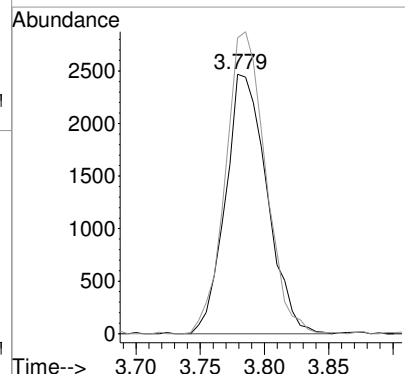
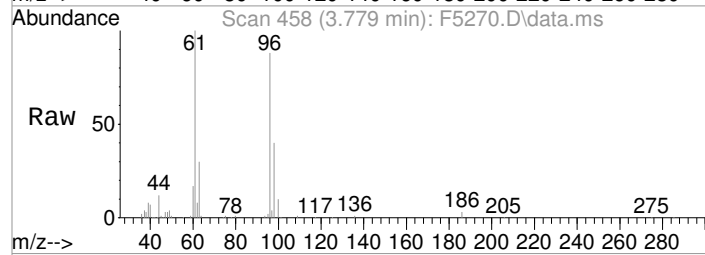
Tgt Ion: 63 Resp: 1884
 Ion Ratio Lower Upper
 63 100
 65 24.6 11.9 51.9
 83 10.9 0.0 33.3





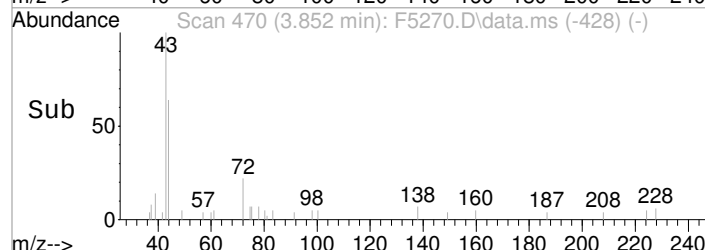
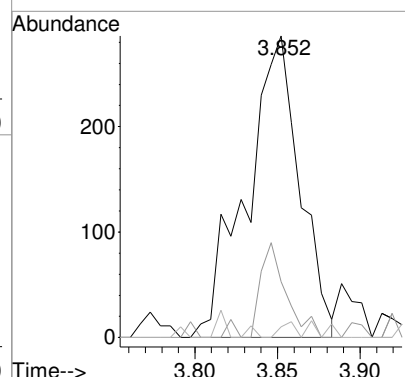
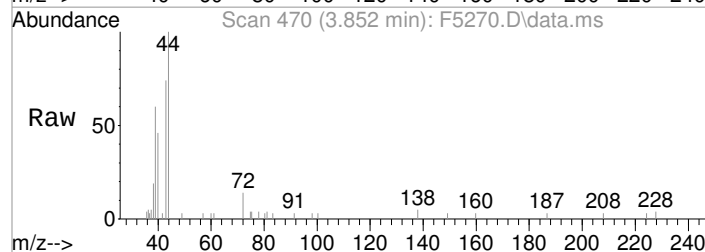
#33
 cis-1,2-Dichloroethene
 Concen: 2.01 ug/L
 RT: 3.779 min Scan# 458
 Delta R.T. -0.006 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

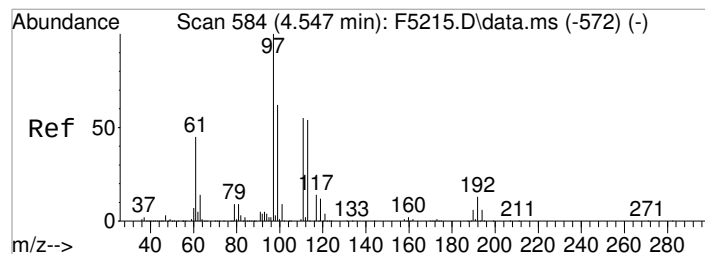
Tgt Ion: 96 Resp: 5547
 Ion Ratio Lower Upper
 96 100
 61 114.0 120.6 160.6#



#34
 2-Butanone
 Concen: 0.35 ug/L
 RT: 3.852 min Scan# 470
 Delta R.T. 0.030 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

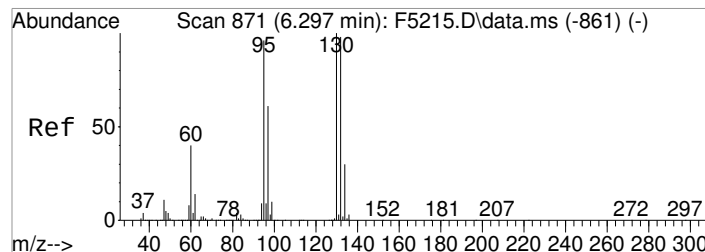
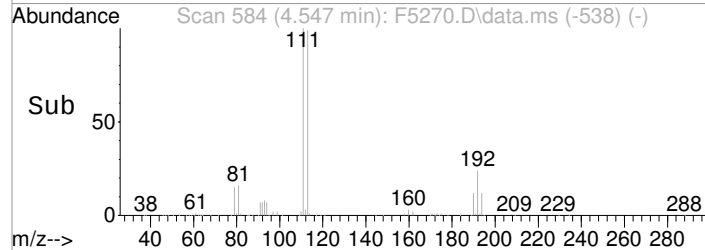
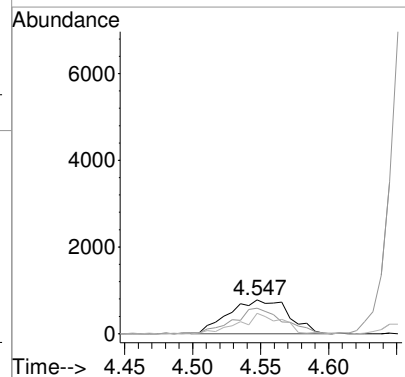
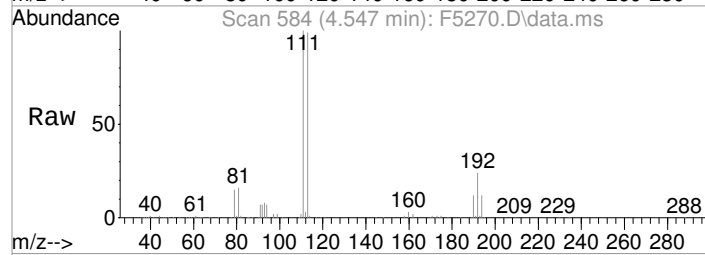
Tgt Ion: 43 Resp: 644
 Ion Ratio Lower Upper
 43 100
 72 18.5 4.8 44.8
 57 3.5 0.0 27.7





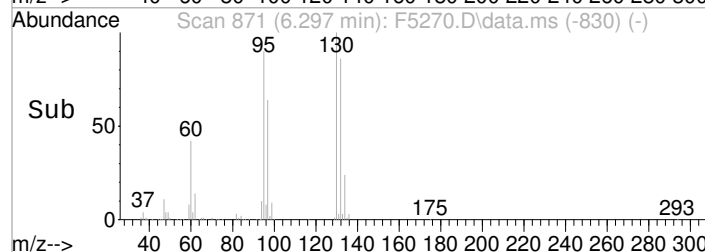
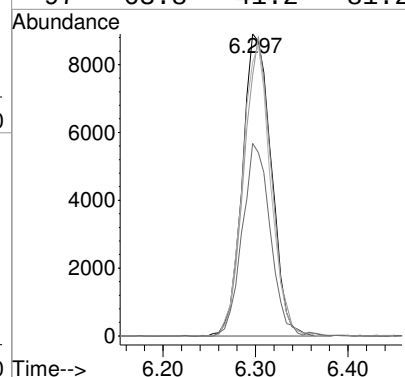
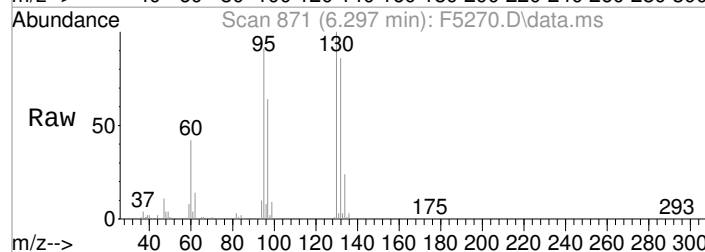
#40
 1,1,1-Trichloroethane
 Concen: 0.70 ug/L
 RT: 4.547 min Scan# 584
 Delta R.T. 0.000 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

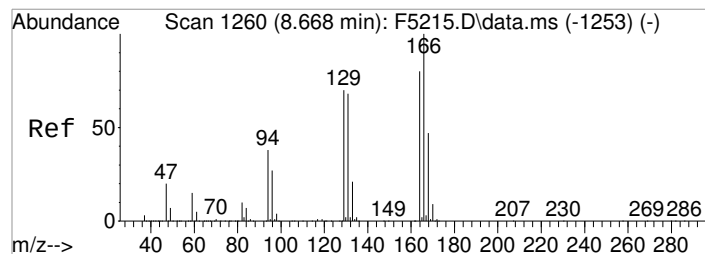
Tgt Ion:	97	Resp:	2377
Ion Ratio		Lower	Upper
97	100		
99	75.4	41.7	81.7
61	60.5	25.1	65.1



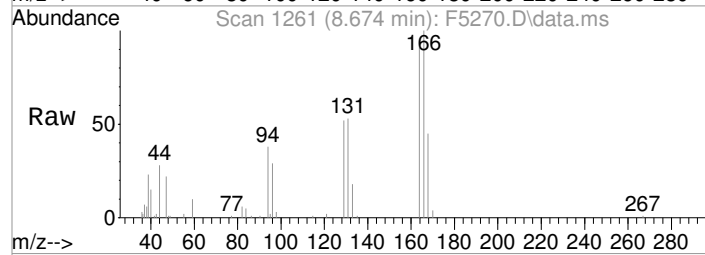
#53
 Trichloroethene
 Concen: 6.97 ug/L
 RT: 6.297 min Scan# 871
 Delta R.T. 0.000 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am

Tgt Ion:	130	Resp:	19327
Ion Ratio		Lower	Upper
130	100		
132	86.3	78.0	118.0
95	90.5	76.2	116.2
97	63.8	41.2	81.2

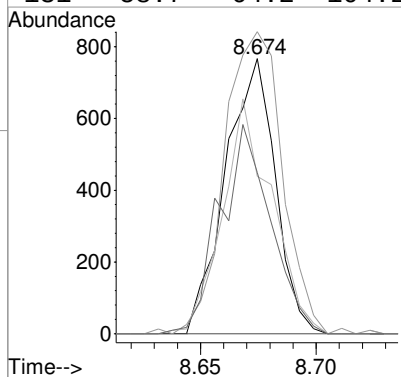
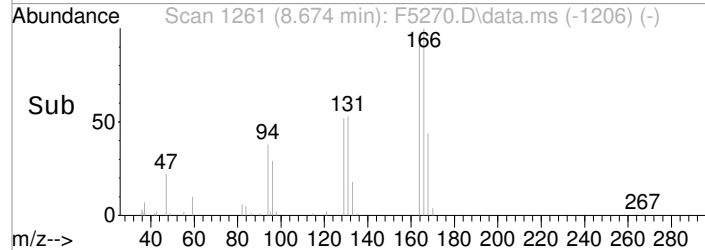




#71
 Tetrachloroethene
 Concen: 0.52 ug/L
 RT: 8.674 min Scan# 1261
 Delta R.T. 0.006 min
 Lab File: F5270.D
 Acq: 28 Mar 2019 3:15 am



Tgt Ion:164	Resp:	1145
Ion Ratio	Lower	Upper
164	100	
166	109.8	104.6 144.6
129	57.2	66.7 106.7#
131	58.7	64.2 104.2#



Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5305.D
 Acq On : 28 Mar 2019 5:57 pm
 Operator : F.NAEGLER
 Sample : R1902432-003|10.0
 Misc : VERINA 6646 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA14

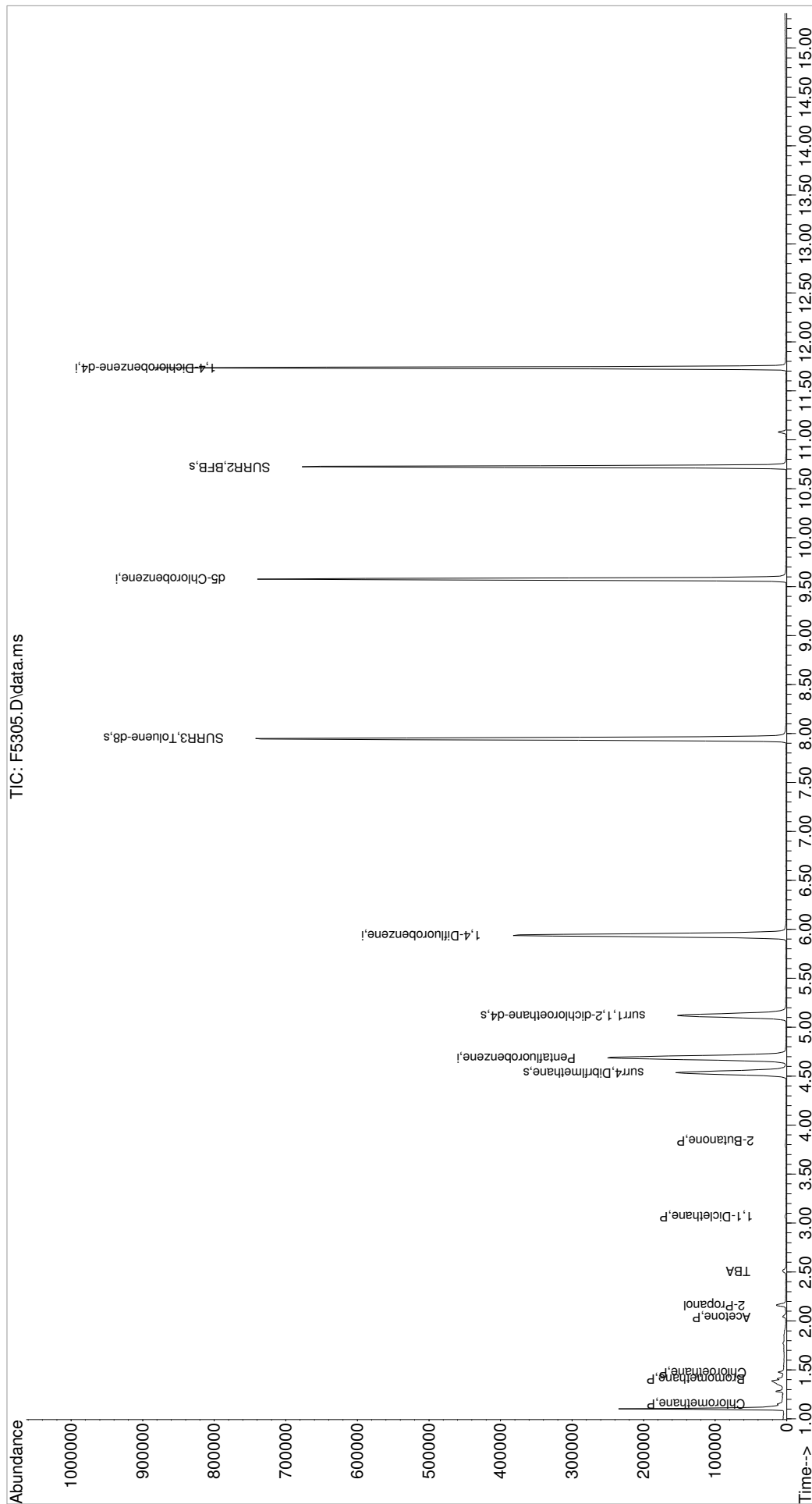
Quant Time: Apr 02 10:17:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

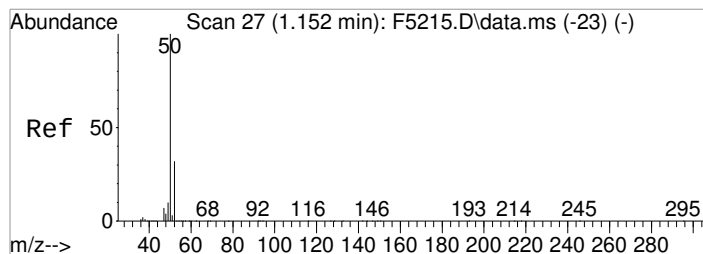
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	257816	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	385158	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	338329	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	175872	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	125565	48.92	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.84%	
47) surr1,1,2-dichloroetha...	5.120	65	149342	49.65	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.30%	
64) SURR3,Toluene-d8	7.949	98	488903	47.72	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	95.44%	
69) SURR2,BFB	10.723	95	177713	44.79	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	89.58%	
Target Compounds						
3) Chloromethane	1.151	50	2148	0.64	ug/L	90
5) Bromomethane	1.408	94	2216	0.87	ug/L	86
6) Chloroethane	1.475	64	4208	2.35	ug/L	98
15) Acetone	2.042	43	4140	3.29	ug/L	97
16) 2-Propanol	2.157	45	13922	49.66	ug/L	97
23) TBA	2.511	59	4121	8.76	ug/L	99
27) 1,1-Dicethane	3.066	63	1414	0.32	ug/L	88
34) 2-Butanone	3.840	43	951	0.51	ug/L	82

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

Data Path : I:\ACQUDATA\MSV0A14\Data\032819\
 Data File : F5305.D
 Acq On : 28 Mar 2019 5:57 pm
 Operator : F.NAEGLER
 Sample : R1902432-003|10.0
 Misc : VERINA 6646 T4
 ALS Vial : 17 Sample Multiplier: 1
 Inst : MSV0A14

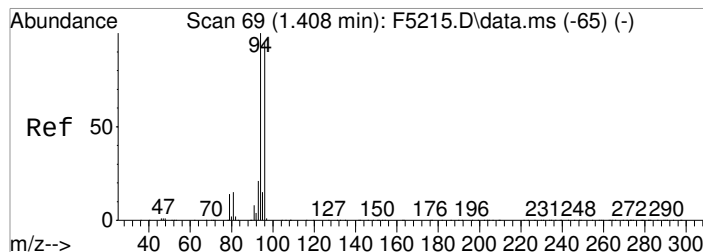
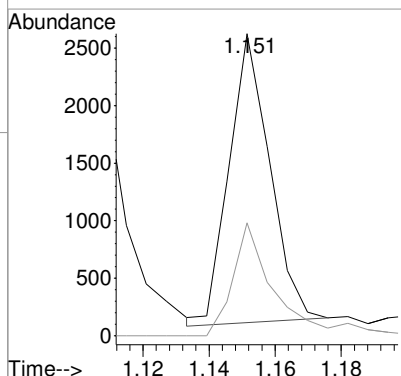
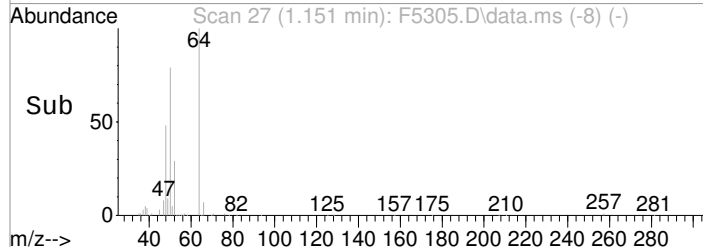
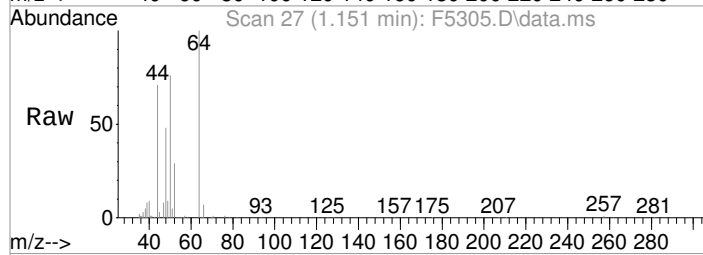
Quant Time: Apr 02 10:17:20 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration





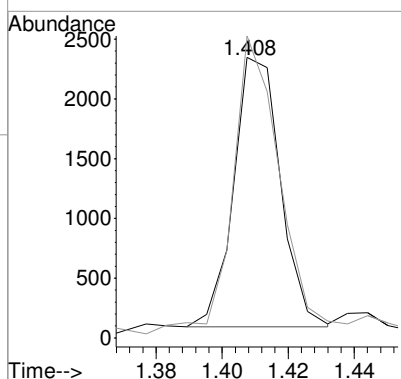
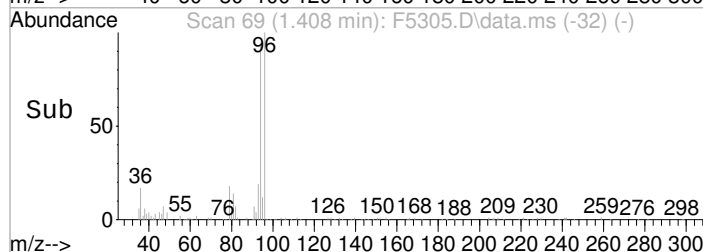
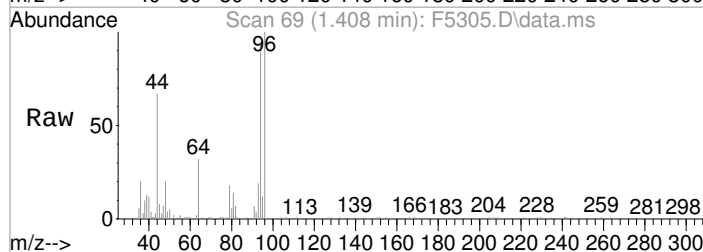
#3
 Chloromethane
 Concen: 0.64 ug/L
 RT: 1.151 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm

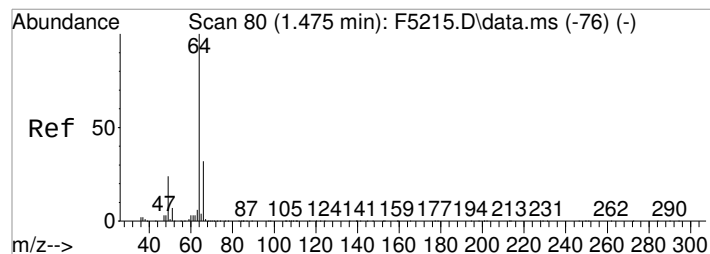
Tgt Ion: 50 Resp: 2148
 Ion Ratio Lower Upper
 50 100
 52 37.4 11.9 51.9



#5
 Bromomethane
 Concen: 0.87 ug/L
 RT: 1.408 min Scan# 69
 Delta R.T. 0.001 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm

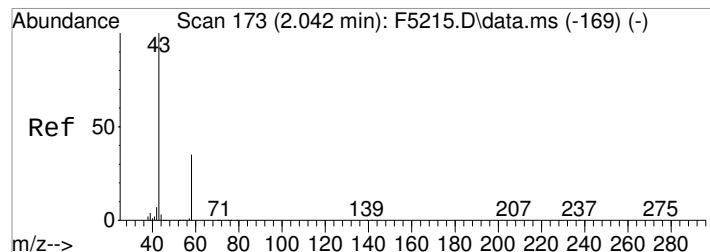
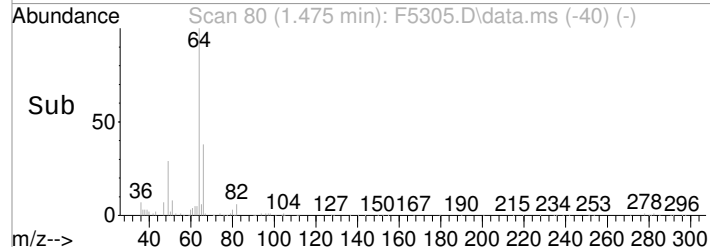
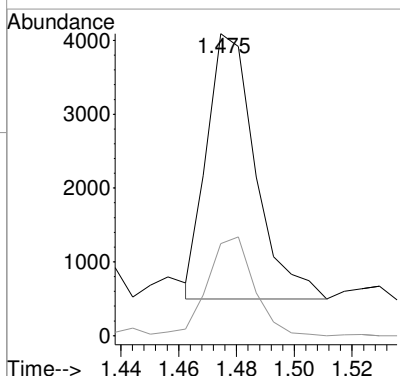
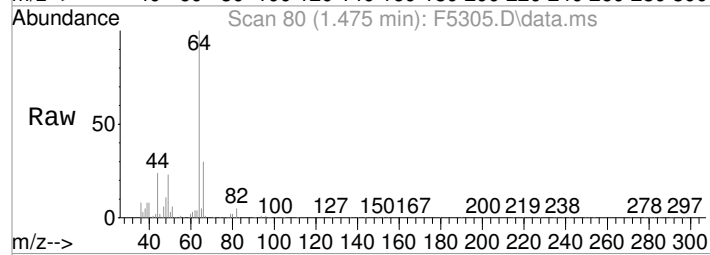
Tgt Ion: 94 Resp: 2216
 Ion Ratio Lower Upper
 94 100
 96 107.6 74.5 114.5





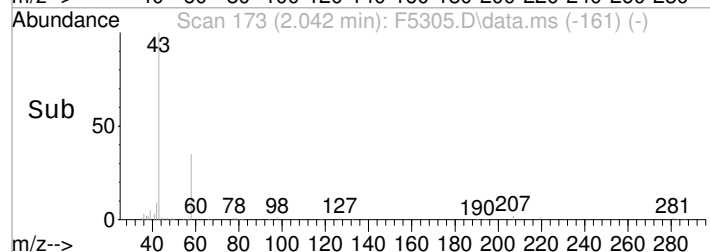
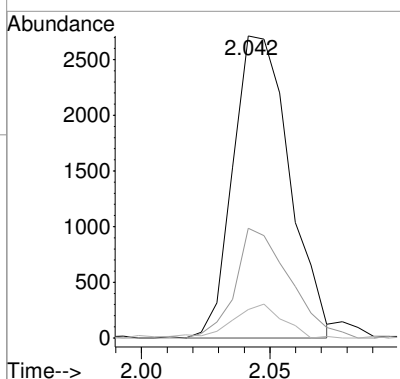
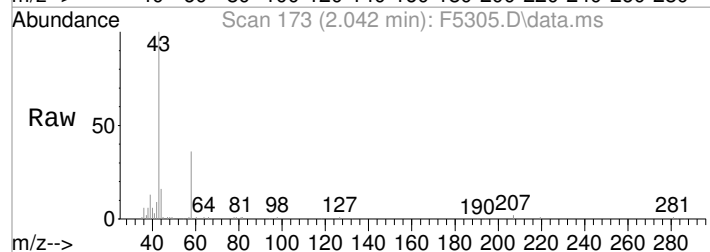
#6
 Chloroethane
 Concen: 2.35 ug/L
 RT: 1.475 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm

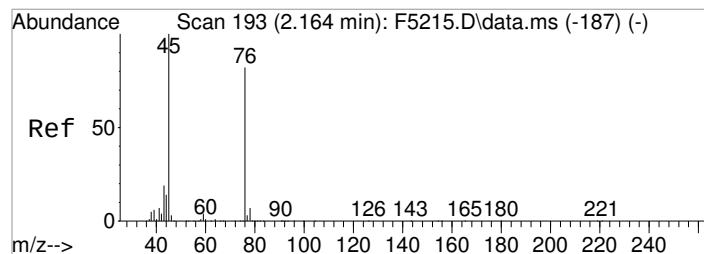
Tgt Ion: 64 Resp: 4208
 Ion Ratio Lower Upper
 64 100
 66 30.5 11.6 51.6



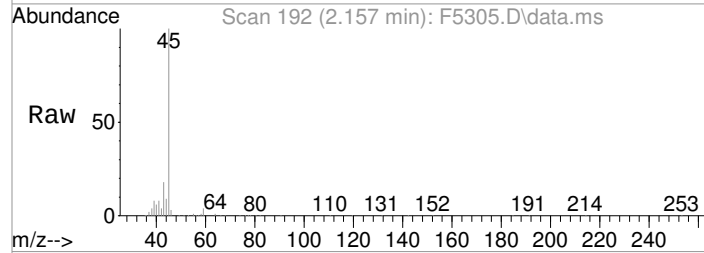
#15
 Acetone
 Concen: 3.29 ug/L
 RT: 2.042 min Scan# 173
 Delta R.T. 0.001 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm

Tgt Ion: 43 Resp: 4140
 Ion Ratio Lower Upper
 43 100
 58 36.3 14.7 54.7
 42 9.4 0.0 27.4

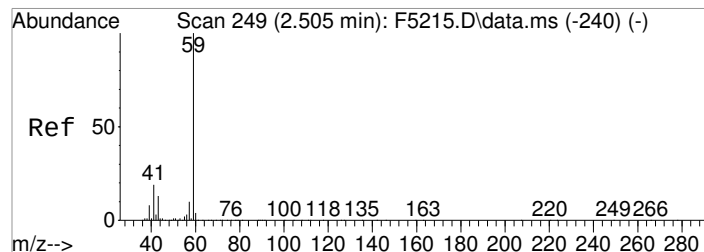
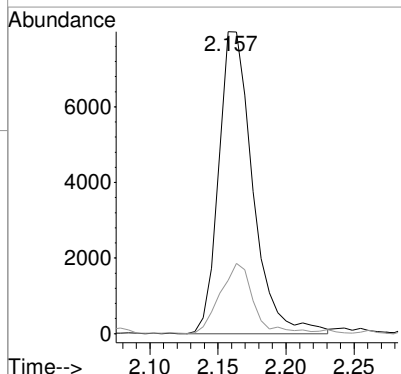
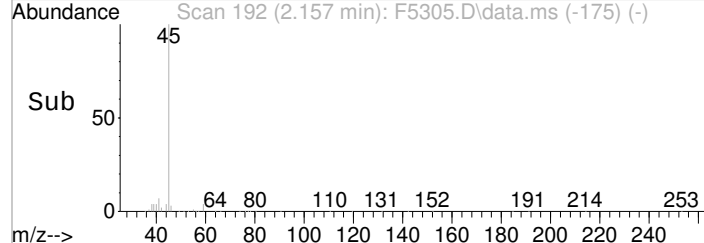




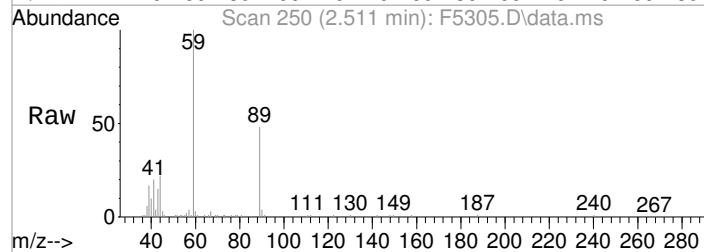
#16
 2-Propanol
 Concen: 49.66 ug/L
 RT: 2.157 min Scan# 192
 Delta R.T. -0.006 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm



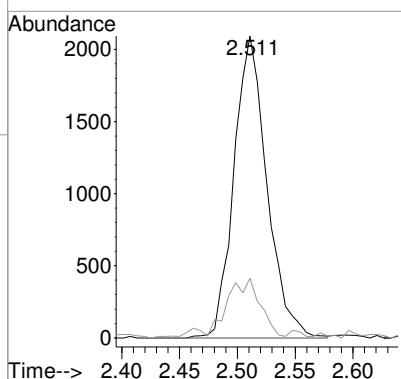
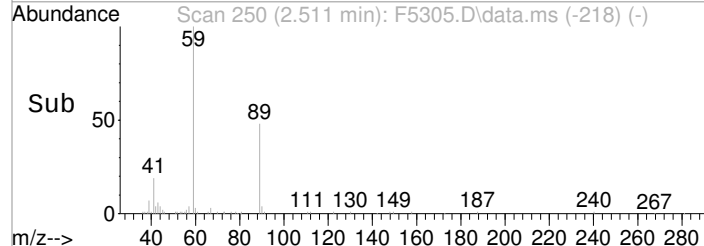
Tgt Ion: 45 Resp: 13922
 Ion Ratio Lower Upper
 45 100
 43 17.6 0.0 38.9

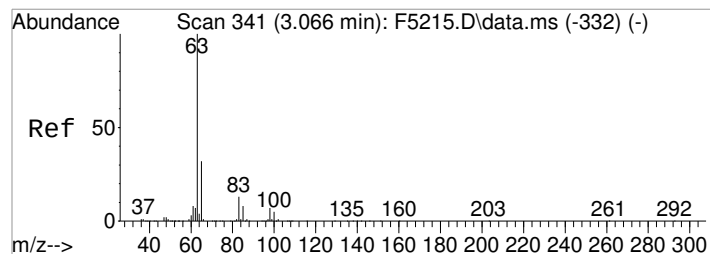


#23
 TBA
 Concen: 8.76 ug/L
 RT: 2.511 min Scan# 250
 Delta R.T. 0.007 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm



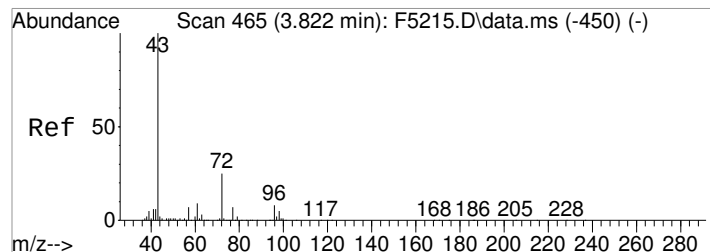
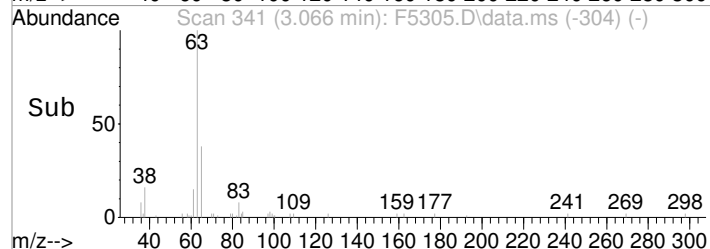
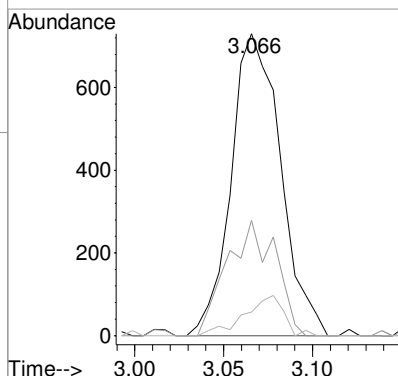
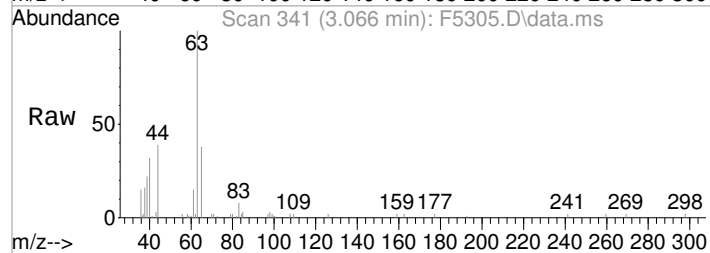
Tgt Ion: 59 Resp: 4121
 Ion Ratio Lower Upper
 59 100
 41 19.8 0.0 39.5





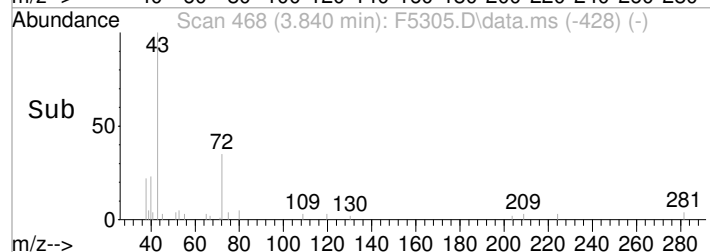
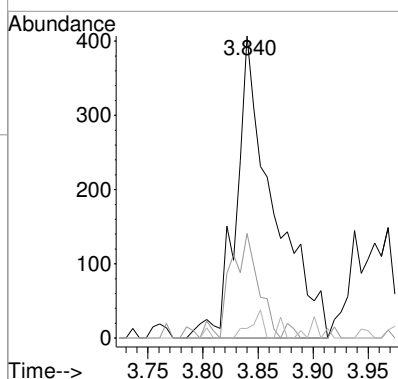
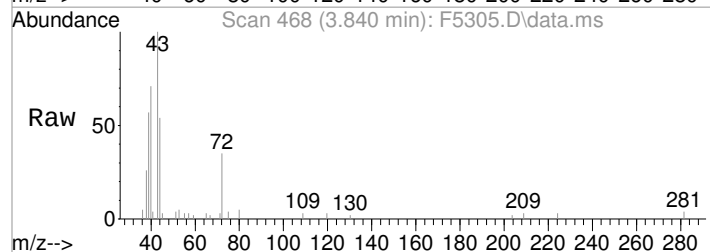
#27
 1,1-Dicethane
 Concen: 0.32 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm

Tgt Ion:	63	Resp:	1414
Ion Ratio	Lower	Upper	
63	100		
65	38.2	11.9	51.9
83	7.8	0.0	33.3



#34
 2-Butanone
 Concen: 0.51 ug/L
 RT: 3.840 min Scan# 468
 Delta R.T. 0.018 min
 Lab File: F5305.D
 Acq: 28 Mar 2019 5:57 pm

Tgt Ion:	43	Resp:	951
Ion Ratio	Lower	Upper	
43	100		
72	34.6	4.8	44.8
57	3.2	0.0	27.7



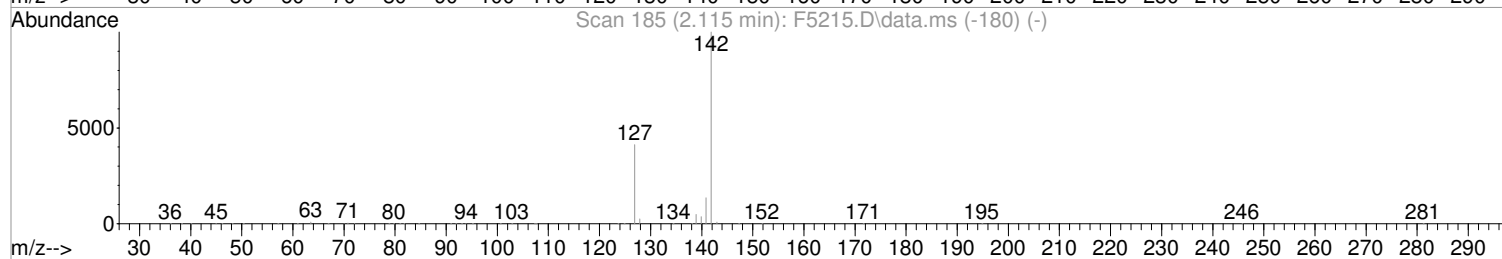
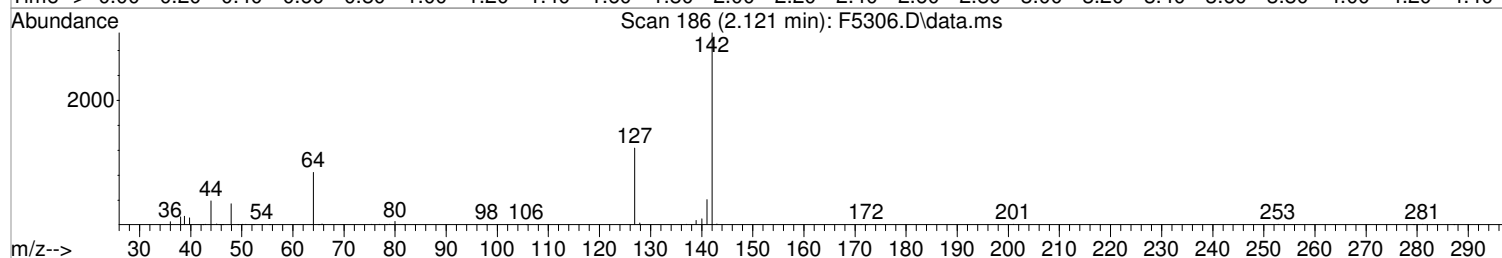
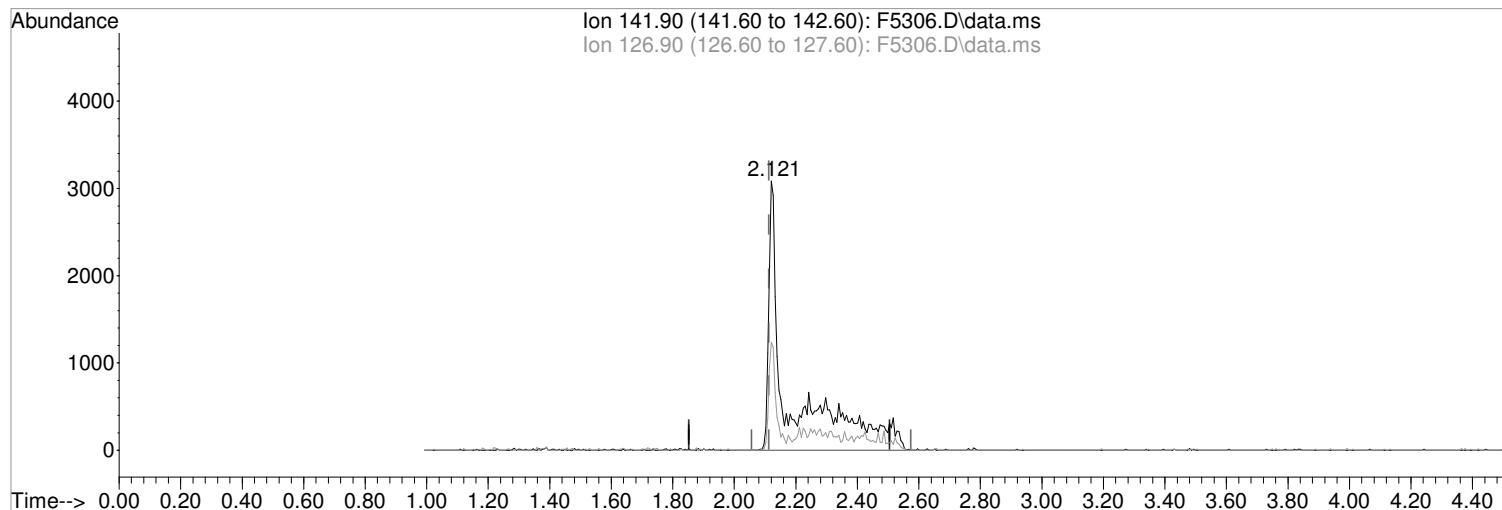
Quantitation Report (Qedit)

1st *FJ* 04/02/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5306.D
Acq On : 28 Mar 2019 6:19 pm
Operator : F.NAEGLER
Sample : R1902432-004|10.0
Misc : VERINA 6646 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 02 09:07:13 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5306.D\data.ms

(17) Iodomethane

2.121min (+0.007) 5.53 ug/L m

response 13215

Ion	Exp%	Act%
141.90	100	100
126.90	41.20	40.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

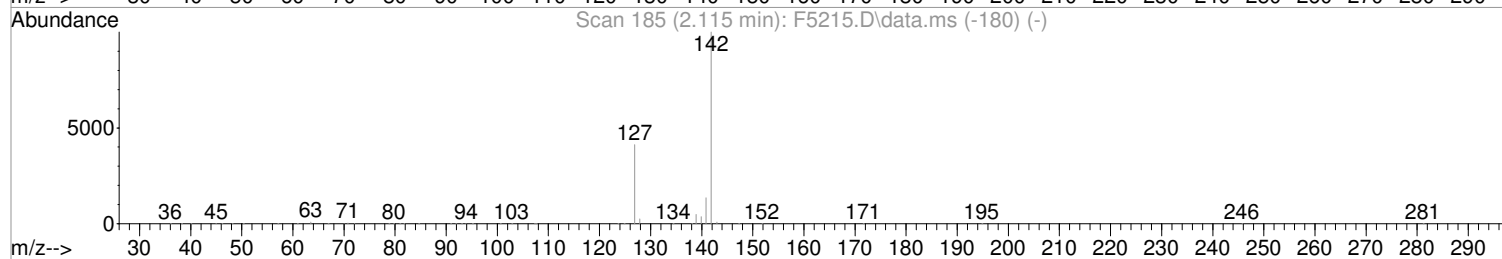
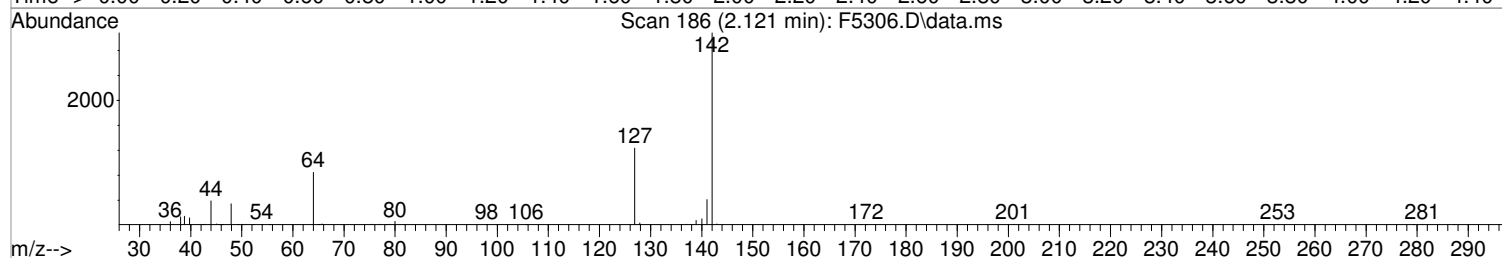
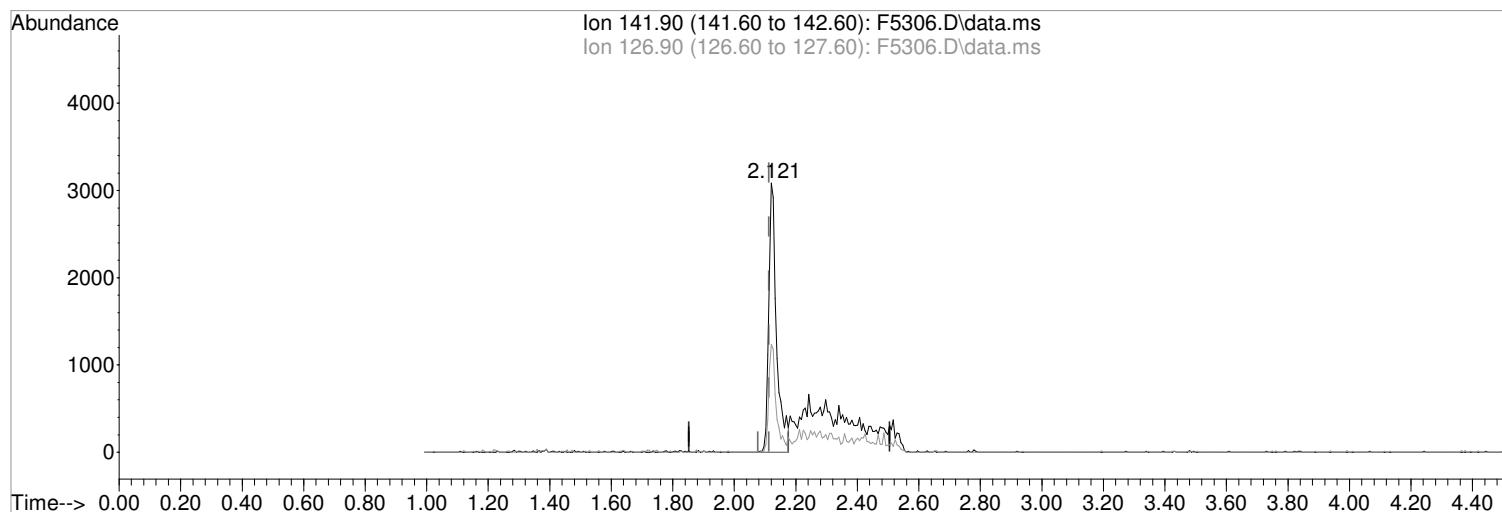
Poor integration.

04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5306.D
Acq On : 28 Mar 2019 6:19 pm
Operator : F.NAEGLER
Sample : R1902432-004|10.0
Misc : VERINA 6646 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 02 09:07:13 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5306.D\data.ms

(17) Iodomethane

Manual Integration:

2.121min (+0.007) 3.03 ug/L

Before

response 5481

Ion	Exp%	Act%
141.90	100	100
126.90	41.20	40.16
0.00	0.00	0.00
0.00	0.00	0.00

04/02/19

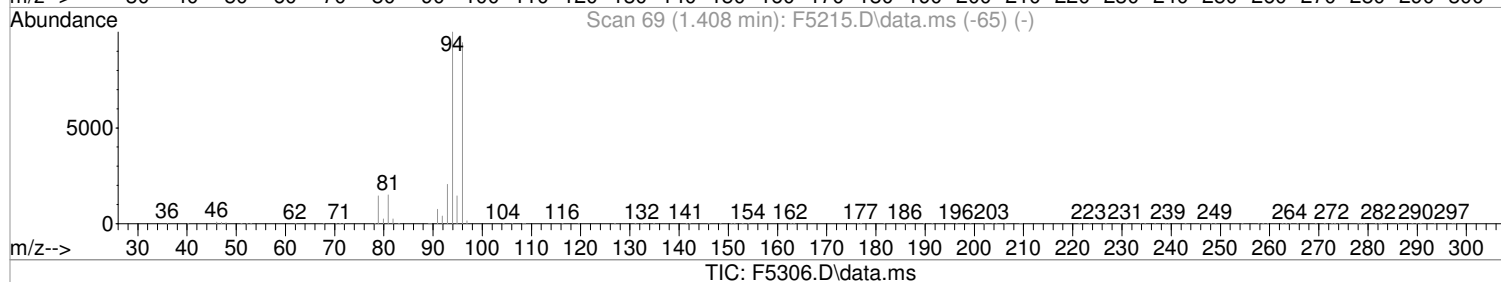
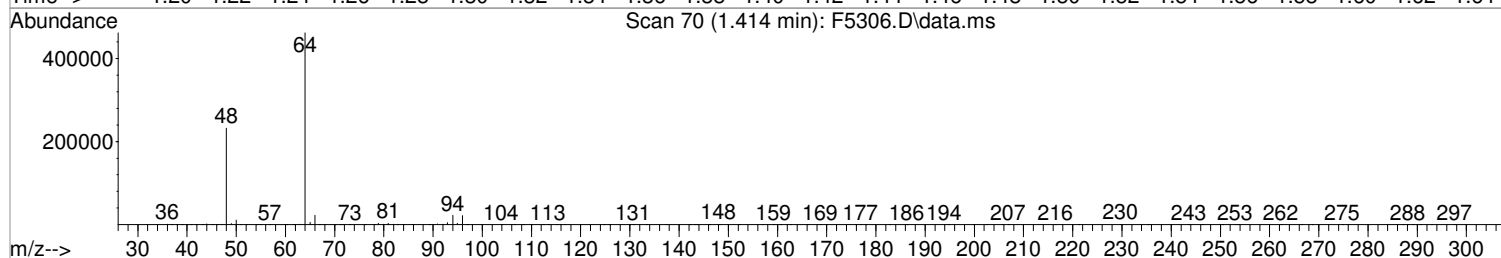
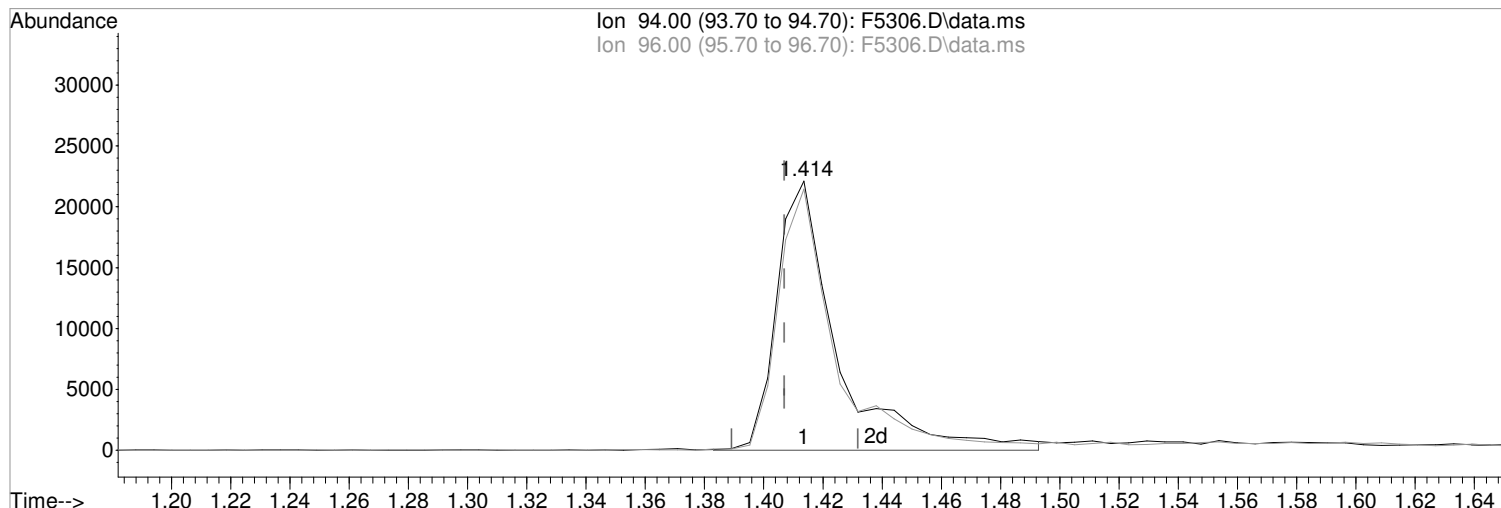
Quantitation Report (Qedit)

1st *FJ* 04/02/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5306.D
Acq On : 28 Mar 2019 6:19 pm
Operator : F.NAEGLER
Sample : R1902432-004|10.0
Misc : VERINA 6646 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 02 09:07:13 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(5) Bromomethane (P)

1.414min (+0.007) 15.76 ug/L m

response 31599

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	97.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/02/19

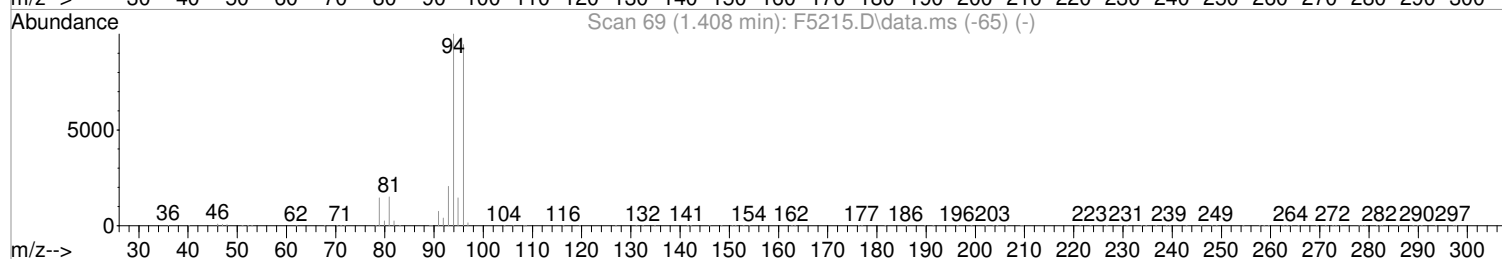
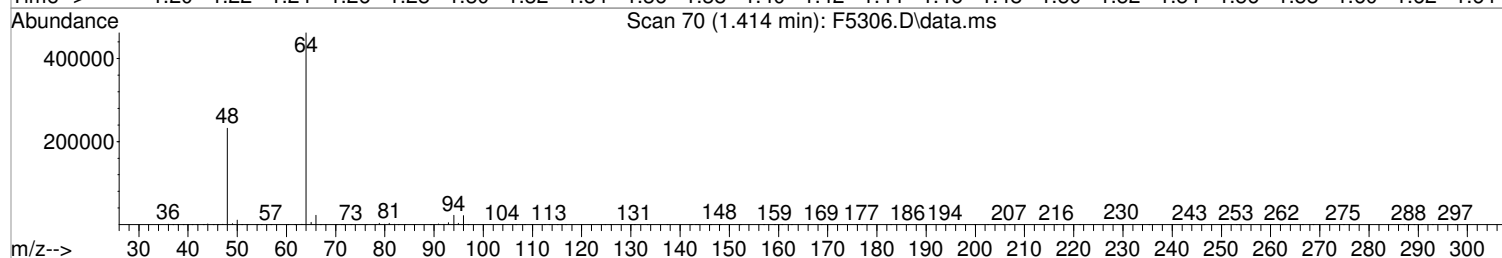
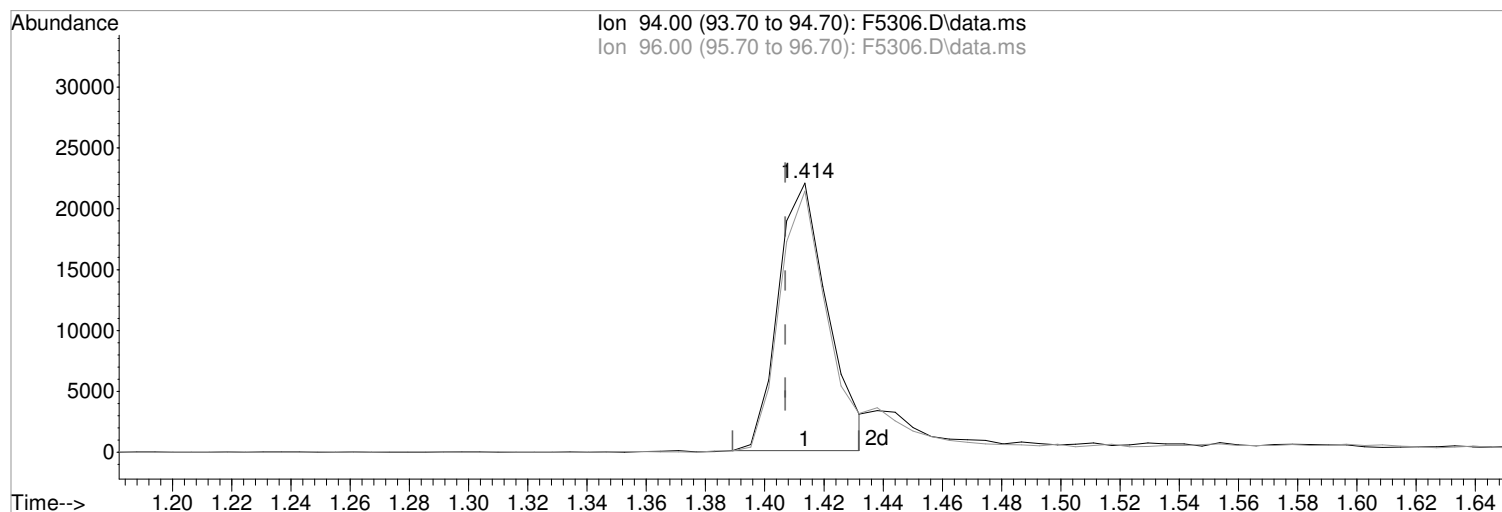
Quantitation Report (Qedit)

1st *FJ* 04/02/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5306.D
Acq On : 28 Mar 2019 6:19 pm
Operator : F.NAEGLER
Sample : R1902432-004|10.0
Misc : VERINA 6646 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 02 09:07:13 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5306.D\data.ms

(5) Bromomethane (P)

Manual Integration:

1.414min (+0.007) 12.53 ug/L

Before

response 25544

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	97.07
0.00	0.00	0.00
0.00	0.00	0.00

04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5306.D
 Acq On : 28 Mar 2019 6:19 pm
 Operator : F.NAEGLER
 Sample : R1902432-004|10.0
 Misc : VERINA 6646 T4
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

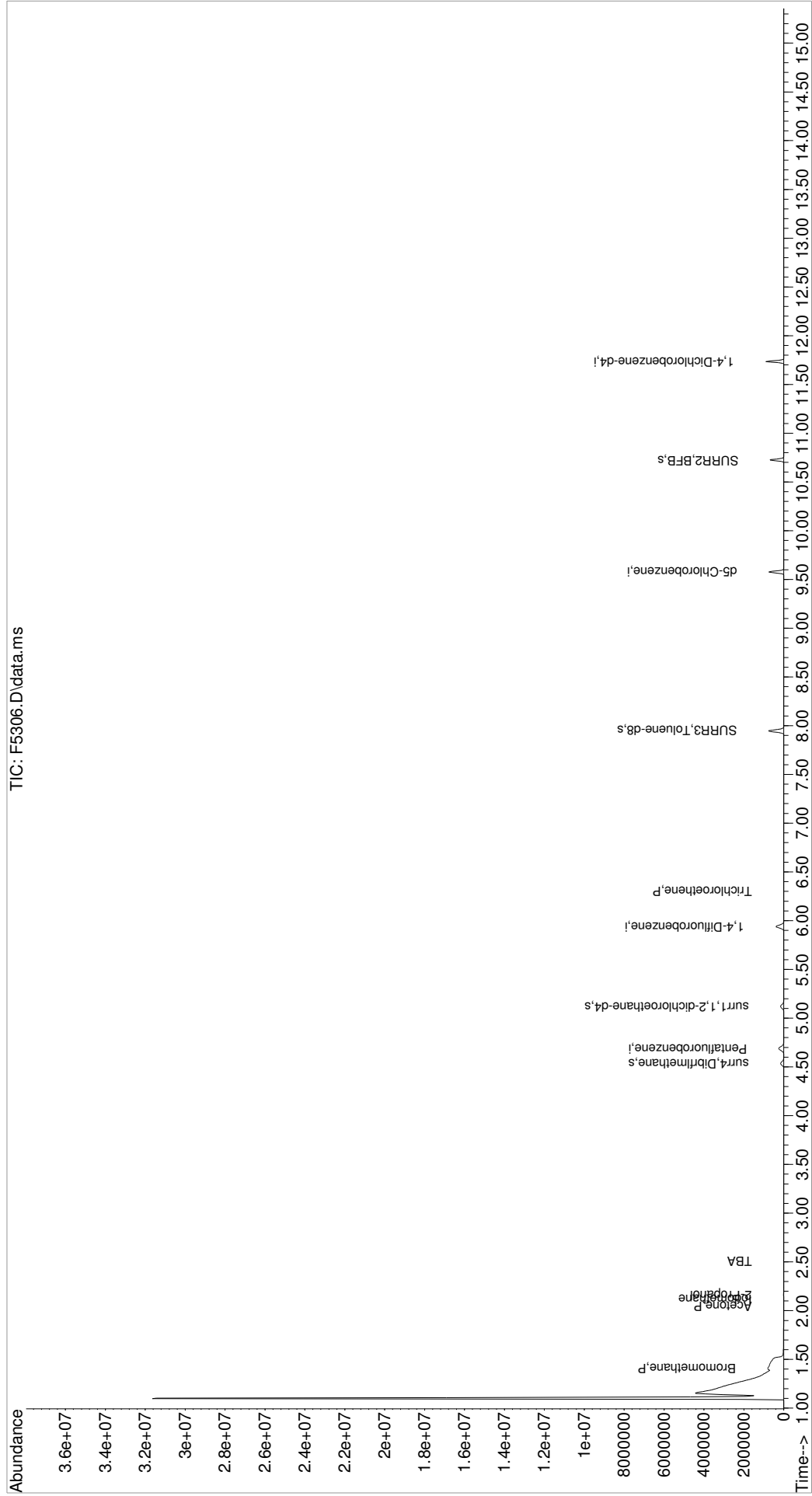
Quant Time: Apr 02 10:19:34 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

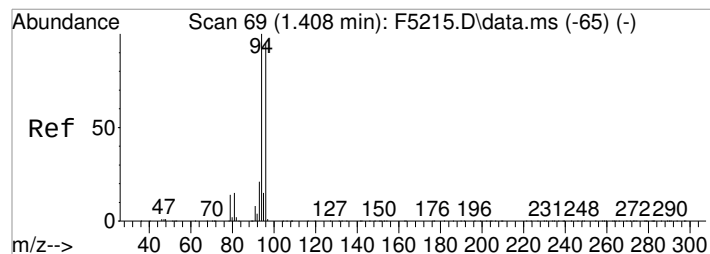
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	260503	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	388278	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	341951	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	175631	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	130940	50.61	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	101.22%	
47) surr1,1,2-dichloroetha...	5.120	65	152954	50.45	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.90%	
64) SURR3,Toluene-d8	7.949	98	505671	48.96	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.92%	
69) SURR2,BFB	10.723	95	181736	45.44	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	90.88%	
Target Compounds						
5) Bromomethane	1.414	94	31599m	15.76	ug/L	Qvalue
15) Acetone	2.048	43	1251	0.98	ug/L	98
16) 2-Propanol	2.163	45	12167	42.95	ug/L	99
17) Iodomethane	2.121	142	13215m	5.53	ug/L	
23) TBA	2.511	59	5045	10.61	ug/L	88
53) Trichloroethene	6.303	130	1492	0.53	ug/L	86

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

Data Path : I:\ACQUDATA\MSV0A14\Data\032819\
 Data File : F5306.D
 Acq On : 28 Mar 2019 6:19 pm
 Operator : F.NAEGLER
 Sample : R1902432-004|10.0
 Misc : VERINA 6646 T4
 ALS Vial : 18 Sample Multiplier: 1
 Inst : MSV0A14

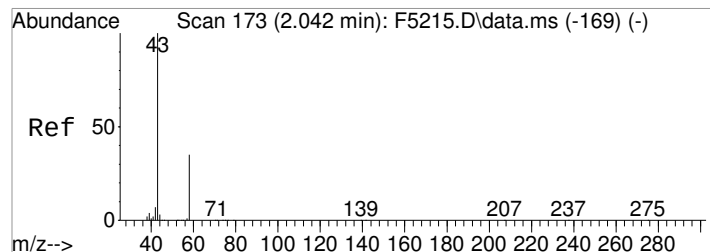
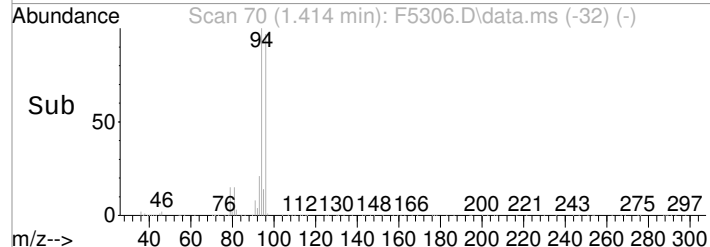
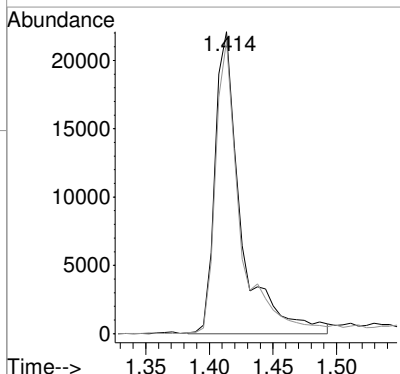
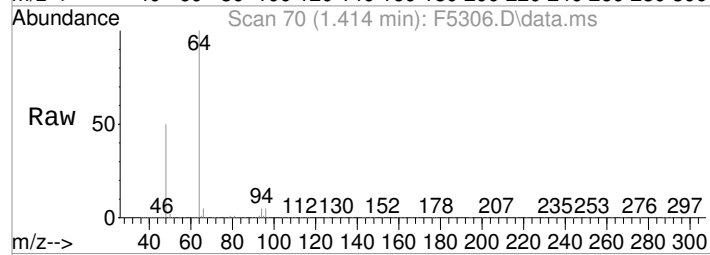
Quant Time: Apr 02 10:19:34 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration





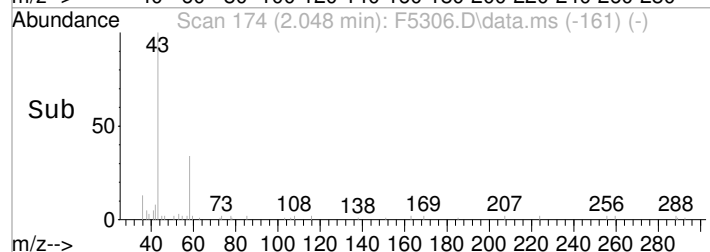
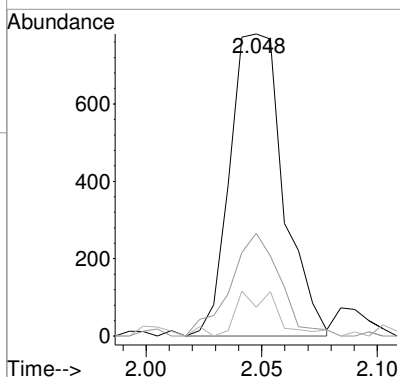
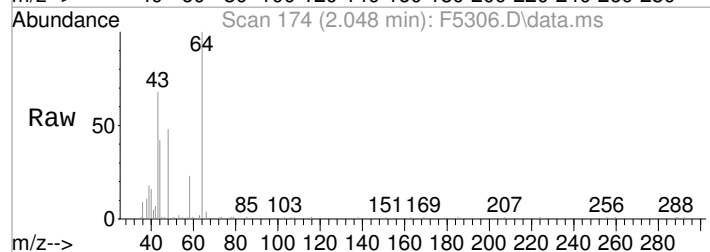
#5
 Bromomethane
 Concen: 15.76 ug/L m
 RT: 1.414 min Scan# 70
 Delta R.T. 0.007 min
 Lab File: F5306.D
 Acq: 28 Mar 2019 6:19 pm

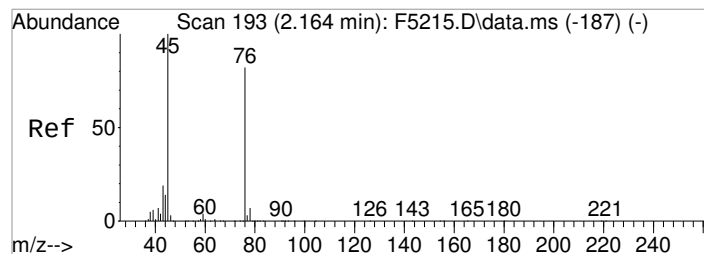
Tgt Ion: 94 Resp: 31599
 Ion Ratio Lower Upper
 94 100
 96 97.1 74.5 114.5



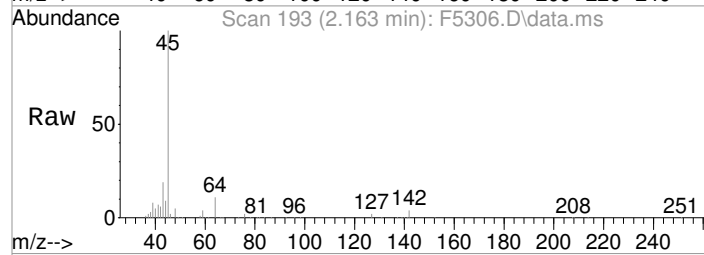
#15
 Acetone
 Concen: 0.98 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.007 min
 Lab File: F5306.D
 Acq: 28 Mar 2019 6:19 pm

Tgt Ion: 43 Resp: 1251
 Ion Ratio Lower Upper
 43 100
 58 34.1 14.7 54.7
 42 9.6 0.0 27.4

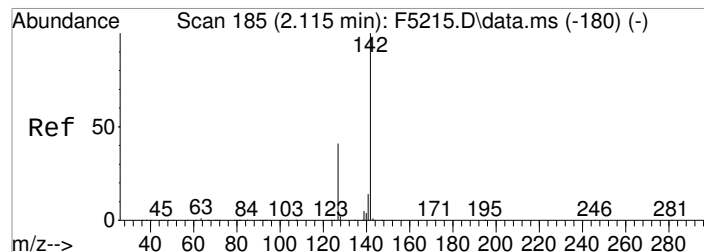
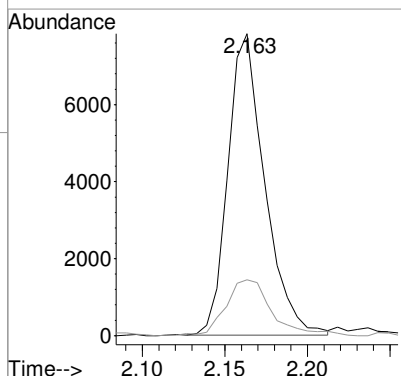
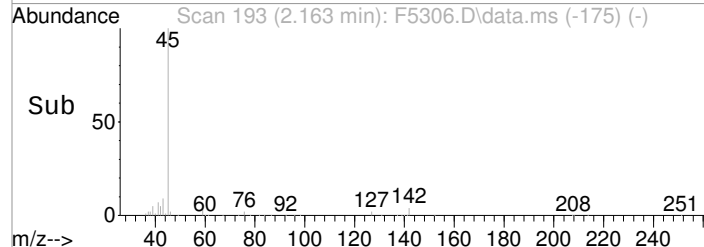




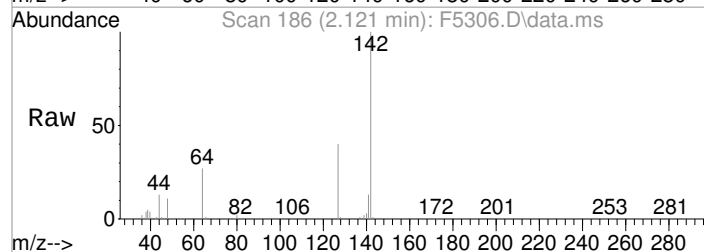
#16
 2-Propanol
 Concen: 42.95 ug/L
 RT: 2.163 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: F5306.D
 Acq: 28 Mar 2019 6:19 pm



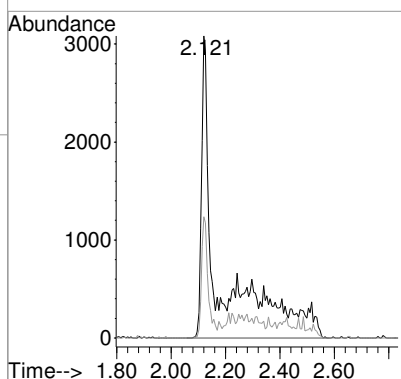
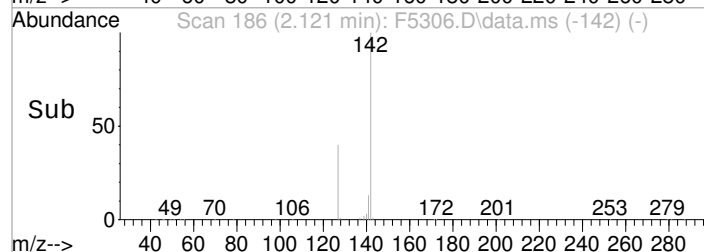
Tgt Ion: 45 Resp: 12167
 Ion Ratio Lower Upper
 45 100
 43 18.5 0.0 38.9

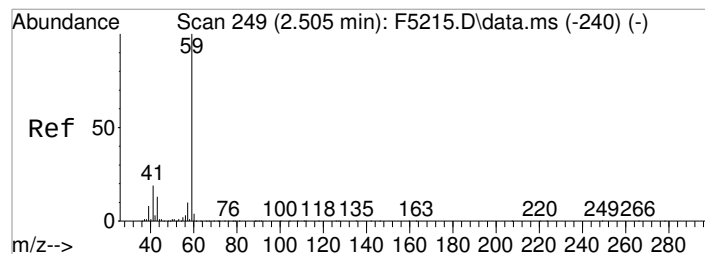


#17
 Iodomethane
 Concen: 5.53 ug/L m
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: F5306.D
 Acq: 28 Mar 2019 6:19 pm

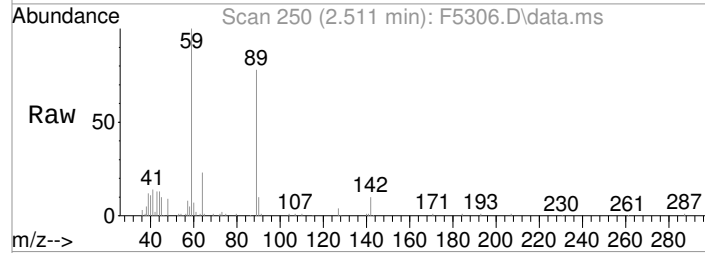


Tgt Ion: 142 Resp: 13215
 Ion Ratio Lower Upper
 142 100
 127 40.2 21.2 61.2

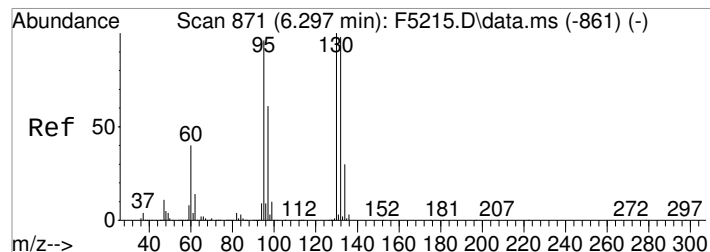
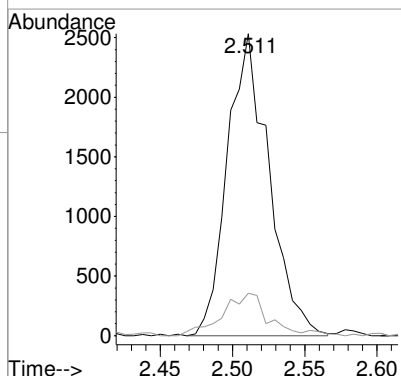
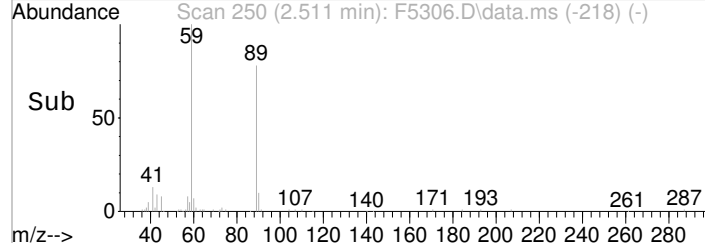




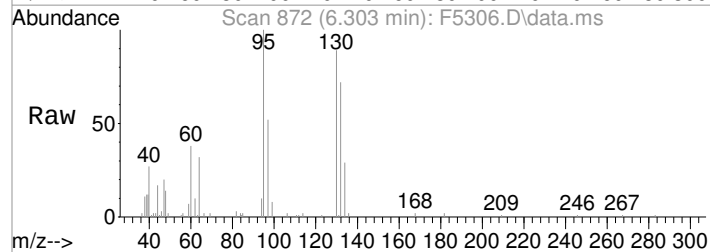
#23
 TBA
 Concen: 10.61 ug/L
 RT: 2.511 min Scan# 250
 Delta R.T. 0.007 min
 Lab File: F5306.D
 Acq: 28 Mar 2019 6:19 pm



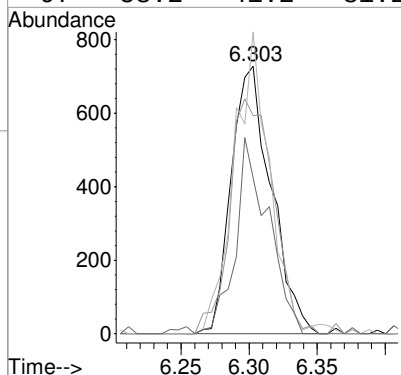
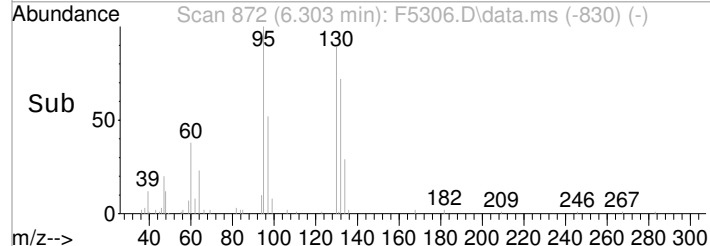
Tgt Ion: 59 Resp: 5045
 Ion Ratio Lower Upper
 59 100
 41 14.0 0.0 39.5



#53
 Trichloroethene
 Concen: 0.53 ug/L
 RT: 6.303 min Scan# 872
 Delta R.T. 0.006 min
 Lab File: F5306.D
 Acq: 28 Mar 2019 6:19 pm



Tgt Ion: 130 Resp: 1492
 Ion Ratio Lower Upper
 130 100
 132 81.6 78.0 118.0
 95 112.8 76.2 116.2
 97 58.2 41.2 81.2



Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5269.D
 Acq On : 28 Mar 2019 2:53 am
 Operator : F.NAEGLER
 Sample : R1902432-005|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:24:13 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

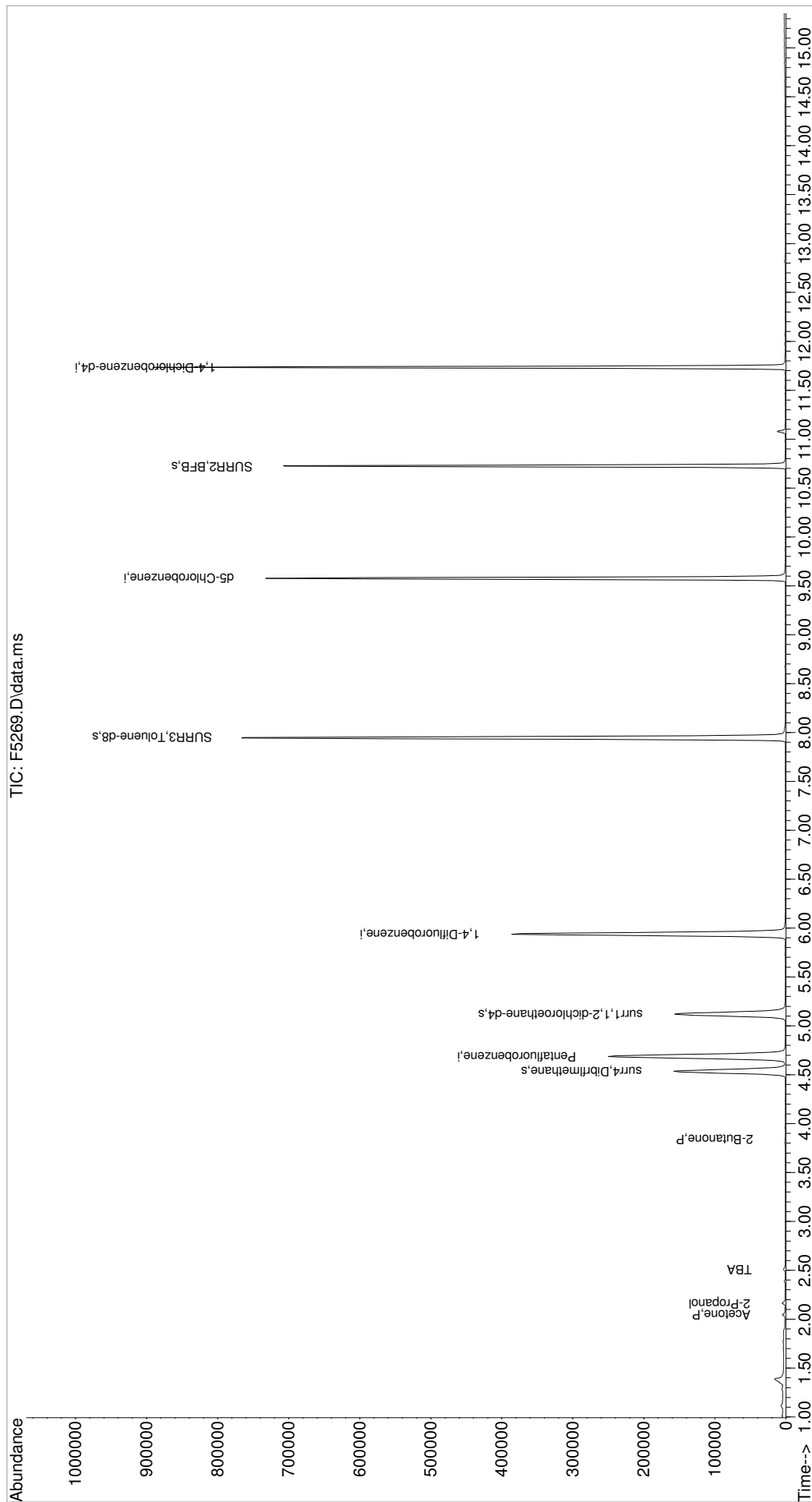
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	258898	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	386485	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	339466	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	175781	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	129844	50.42	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.84%	
47) surr1,1,2-dichloroetha...	5.120	65	153701	50.93	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.86%	
64) SURR3,Toluene-d8	7.949	98	513106	49.91	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.82%	
69) SURR2,BFB	10.723	95	188469	47.34	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.68%	
Target Compounds						
15) Acetone	2.047	43	3612	2.85	ug/L	95
16) 2-Propanol	2.163	45	3987	14.16	ug/L	92
23) TBA	2.511	59	1737	3.68	ug/L	89
34) 2-Butanone	3.840	43	496	0.26	ug/L	89

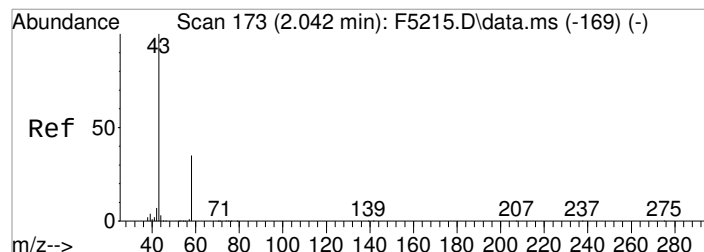
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSV0A14\Data\032719\
Data File : F5269.D
Acq On : 28 Mar 2019 2:53 am
Operator : F.NAEGLER
Sample : R1902432-005|1.0
Misc : VERINA 6646 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSV0A14

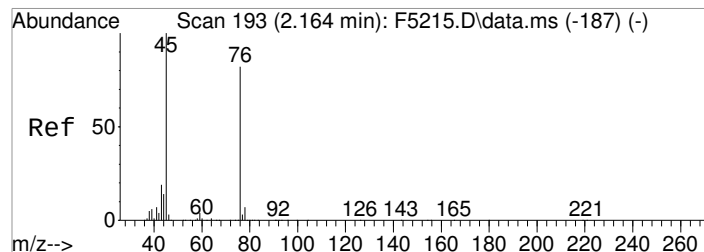
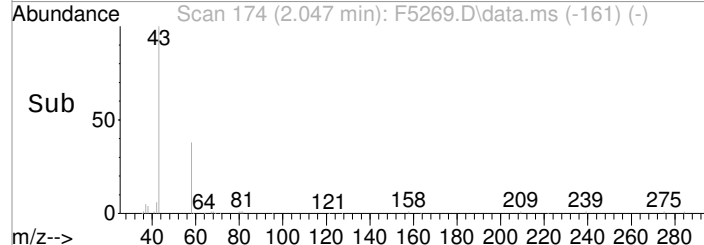
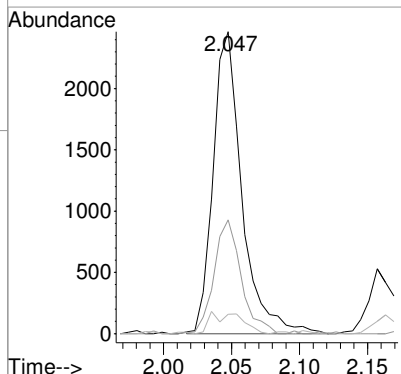
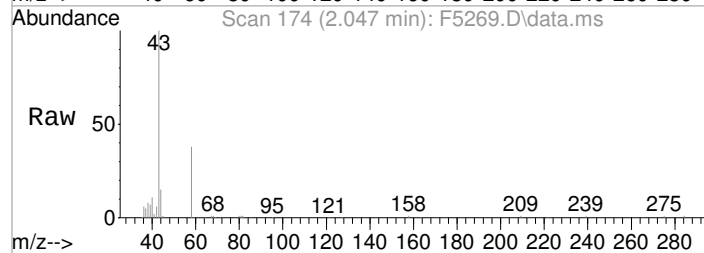
Quant Time: Mar 31 12:24:13 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration





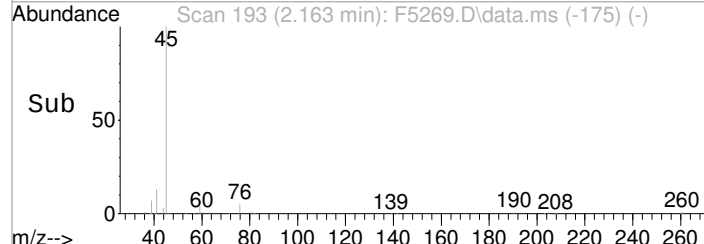
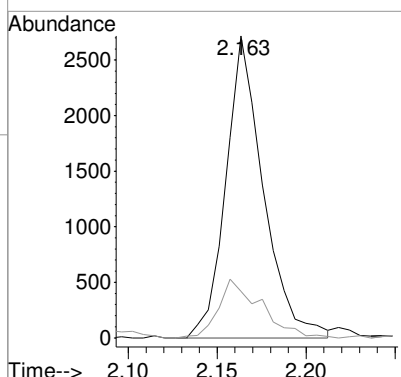
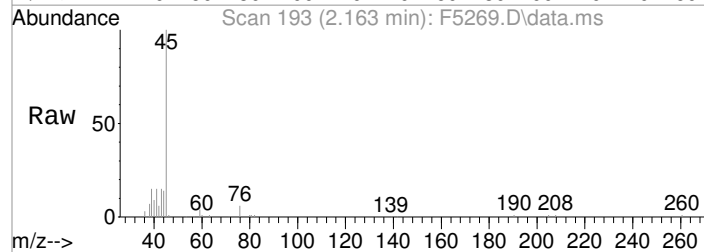
#15
 Acetone
 Concen: 2.85 ug/L
 RT: 2.047 min Scan# 174
 Delta R.T. 0.006 min
 Lab File: F5269.D
 Acq: 28 Mar 2019 2:53 am

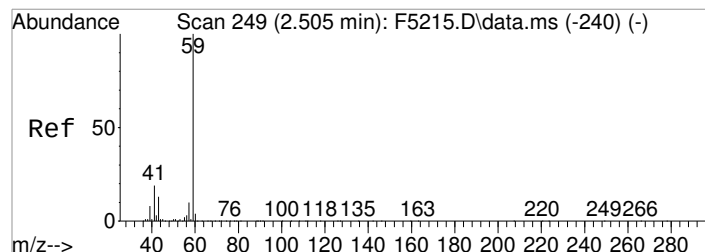
Tgt Ion: 43 Resp: 3612
 Ion Ratio Lower Upper
 43 100
 58 37.7 14.7 54.7
 42 6.4 0.0 27.4



#16
 2-Propanol
 Concen: 14.16 ug/L
 RT: 2.163 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: F5269.D
 Acq: 28 Mar 2019 2:53 am

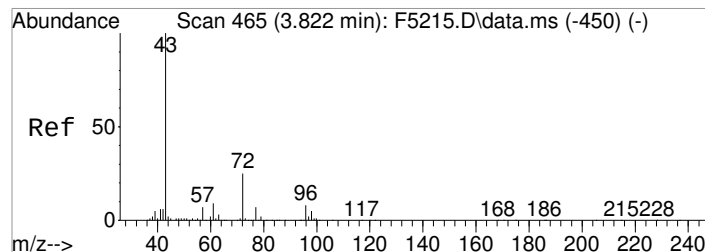
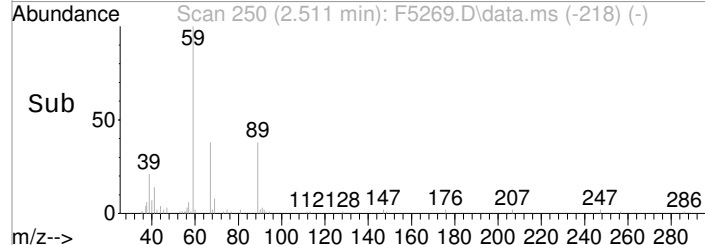
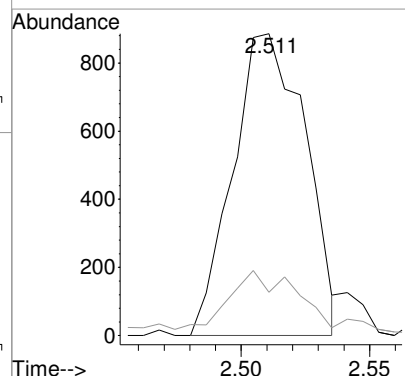
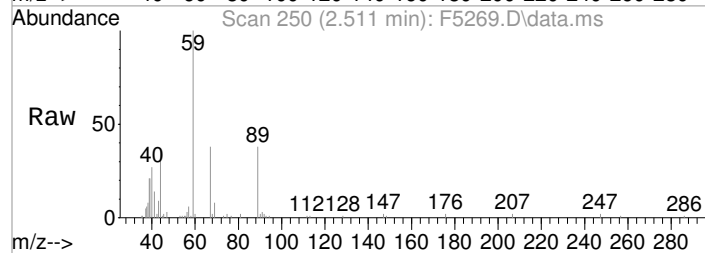
Tgt Ion: 45 Resp: 3987
 Ion Ratio Lower Upper
 45 100
 43 15.4 0.0 38.9





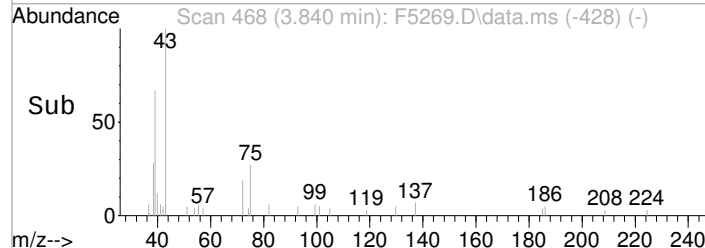
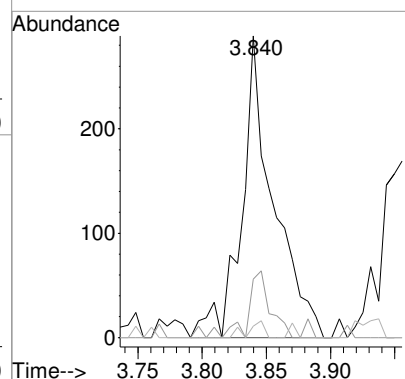
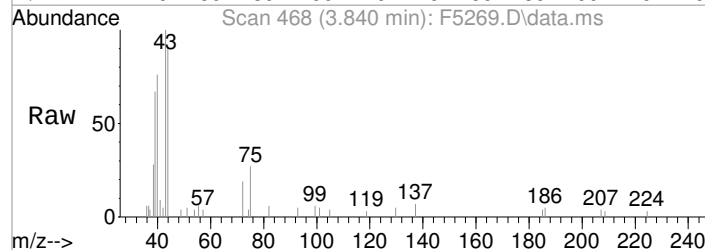
#23
 TBA
 Concen: 3.68 ug/L
 RT: 2.511 min Scan# 250
 Delta R.T. 0.007 min
 Lab File: F5269.D
 Acq: 28 Mar 2019 2:53 am

Tgt Ion: 59 Resp: 1737
 Ion Ratio Lower Upper
 59 100
 41 14.3 0.0 39.5



#34
 2-Butanone
 Concen: 0.26 ug/L
 RT: 3.840 min Scan# 468
 Delta R.T. 0.018 min
 Lab File: F5269.D
 Acq: 28 Mar 2019 2:53 am

Tgt Ion: 43 Resp: 496
 Ion Ratio Lower Upper
 43 100
 72 19.4 4.8 44.8
 57 3.8 0.0 27.7



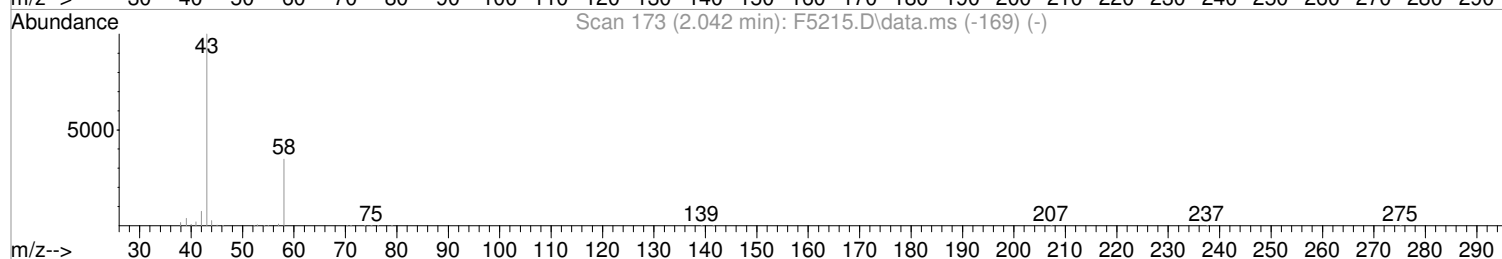
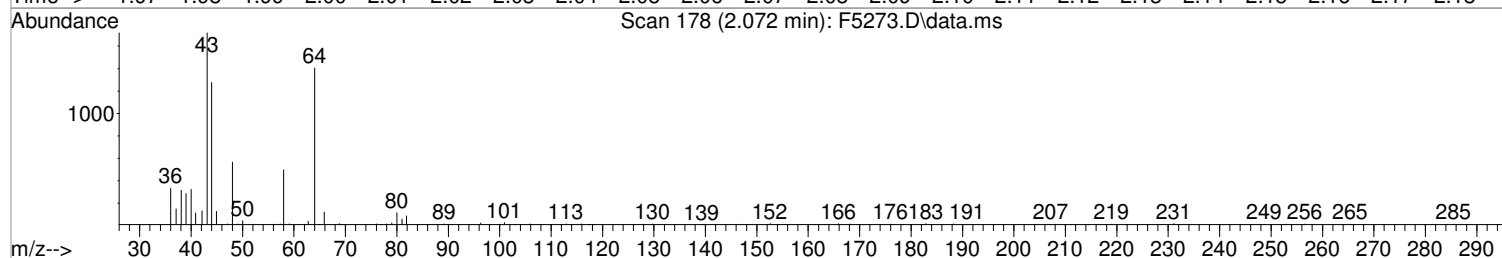
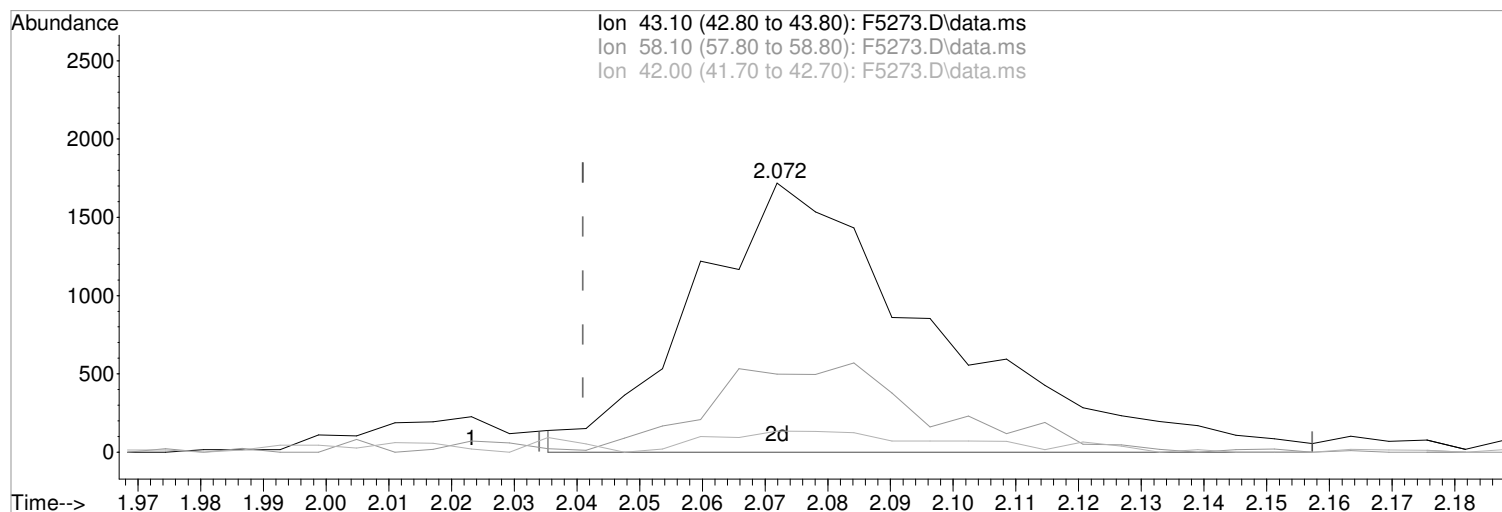
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5273.D
Acq On : 28 Mar 2019 4:11 am
Operator : F.NAEGLER
Sample : R1902432-006|1.0
Misc : VERINA 6646 T4
ALS Vial : 47 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:37 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(15) Acetone (P)
2.072min (+0.031) 3.69 ug/L m
response 4590

Ion	Exp%	Act%
43.10	100	100
58.10	34.70	29.05
42.00	7.40	7.80
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

03/31/19

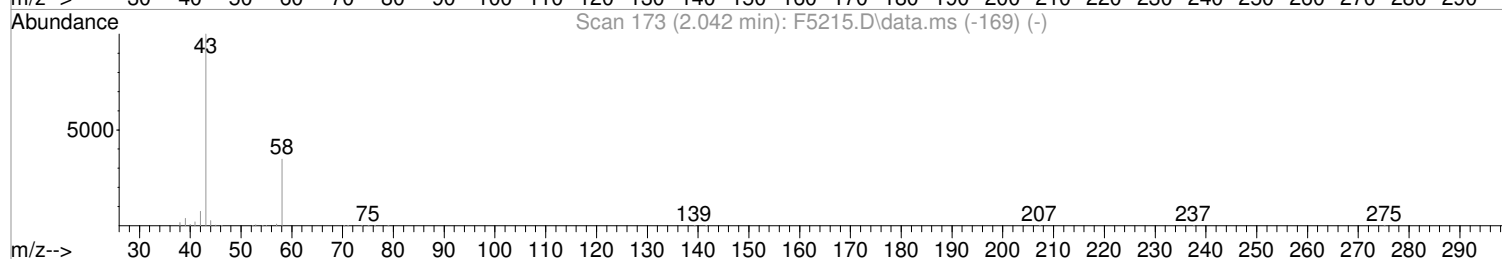
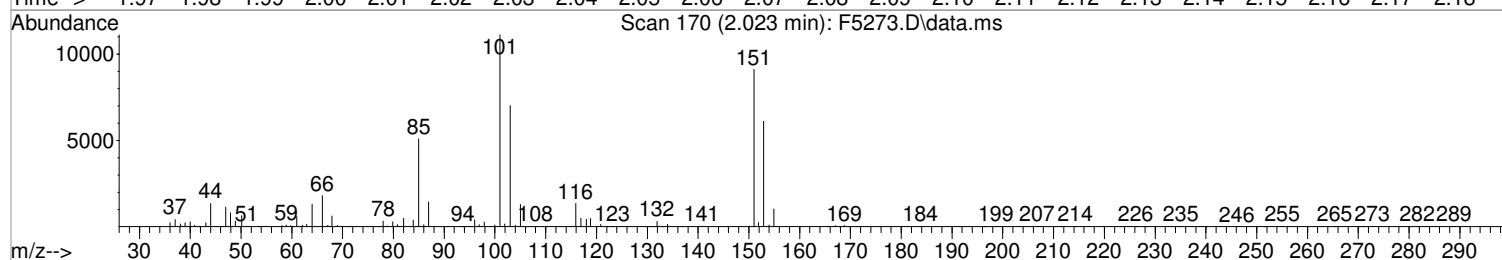
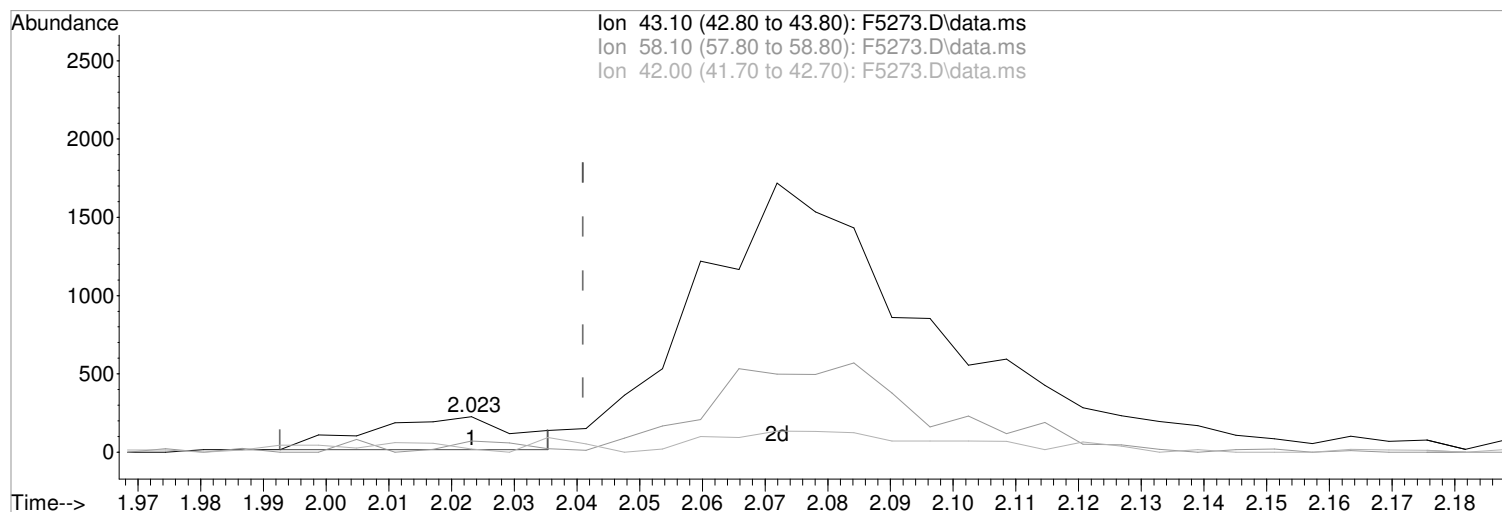
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5273.D
Acq On : 28 Mar 2019 4:11 am
Operator : F.NAEGLER
Sample : R1902432-006|1.0
Misc : VERINA 6646 T4
ALS Vial : 47 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:37 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5273.D\data.ms

(15) Acetone (P)

Manual Integration:

2.023min (-0.018) 0.28 ug/L

Before

response 353

Ion	Exp%	Act%
43.10	100	100
58.10	34.70	31.86
42.00	7.40	9.29
0.00	0.00	0.00

03/31/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5273.D
 Acq On : 28 Mar 2019 4:11 am
 Operator : F.NAEGLER
 Sample : R1902432-006|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 47 Sample Multiplier: 1

Inst : MSVOA14

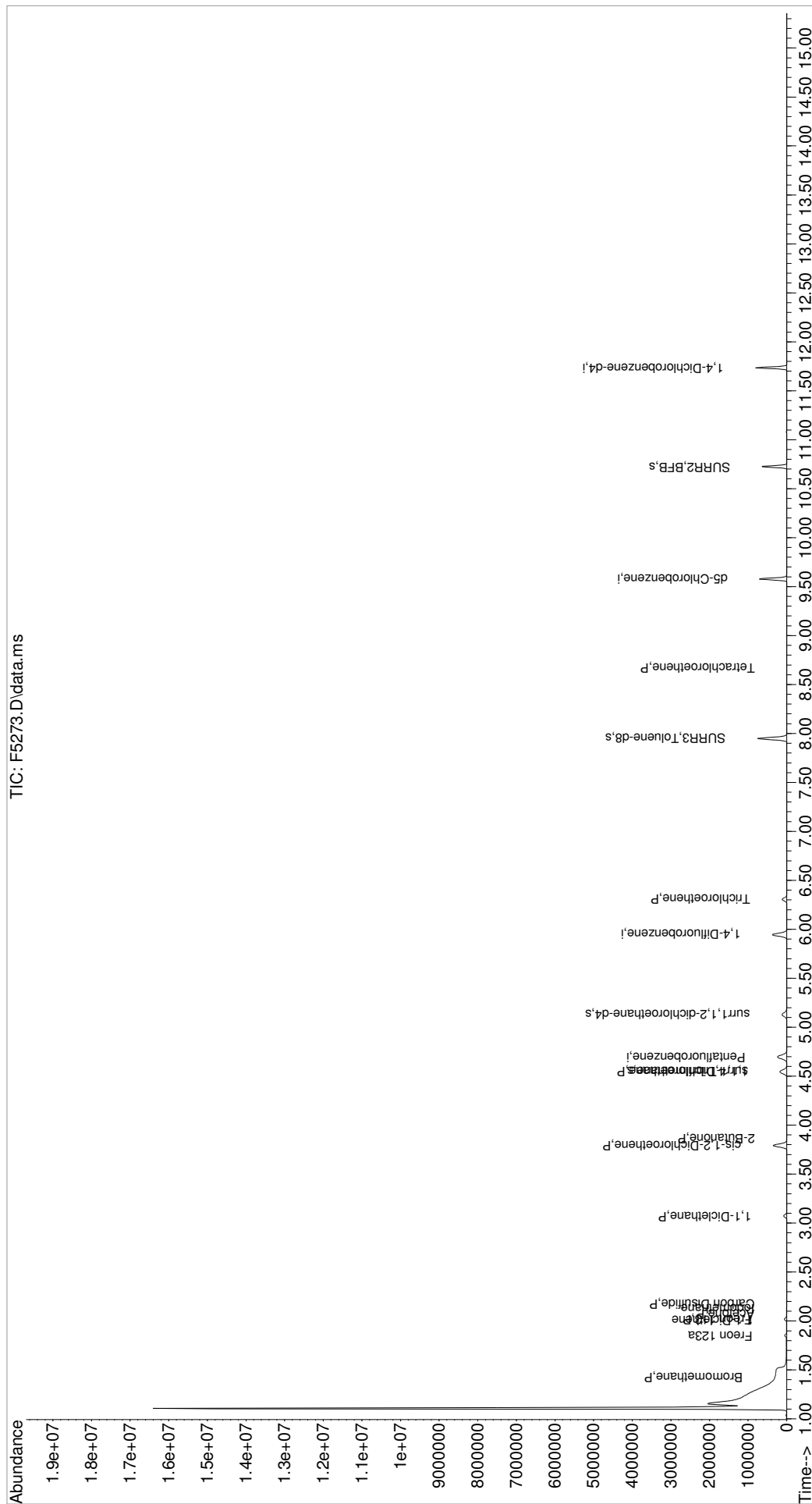
Quant Time: Mar 31 12:29:39 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

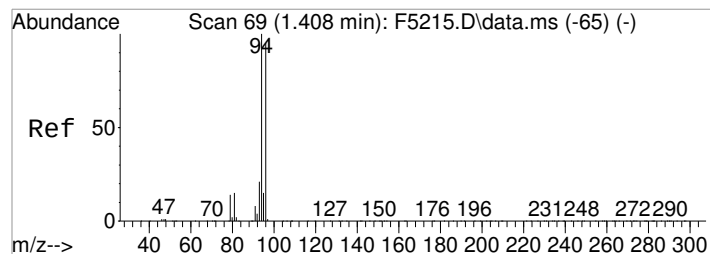
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.693	168	254783	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.949	114	377297	50.00	ug/L	0.01
70) d5-Chlorobenzene	9.577	117	324392	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	163321	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.547	113	126553	50.34	ug/L	0.01
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.68%			
47) surr1,1,2-dichloroetha...	5.132	65	123887	42.05	ug/L	0.01
Spiked Amount 50.000	Range 73 - 125		Recovery = 84.10%			
64) SURR3,Toluene-d8	7.949	98	493140	49.14	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.28%			
69) SURR2,BFB	10.723	95	173046	44.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.06%			
Target Compounds						
5) Bromomethane	1.426	94	4305	1.91	ug/L	99
10) Freon 123a	1.852	67	19240	7.29	ug/L	98
13) 1,1-Dicethene	2.011	96	1009	0.47	ug/L	86
14) Freon 113	2.017	101	19389	10.05	ug/L	99
15) Acetone	2.072	43	4590m	3.69	ug/L	
17) Iodomethane	2.127	142	2546	2.10	ug/L	88
18) Carbon Disulfide	2.176	76	1358	0.24	ug/L	96
27) 1,1-Dicethane	3.072	63	78968	18.05	ug/L	100
33) cis-1,2-Dichloroethene	3.791	96	187933	68.37	ug/L	87
34) 2-Butanone	3.864	43	876	0.47	ug/L	89
40) 1,1,1-Trichloroethane	4.553	97	30018	8.87	ug/L	93
53) Trichloroethene	6.309	130	49044	18.05	ug/L	97
71) Tetrachloroethene	8.674	164	477	0.23	ug/L #	83

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

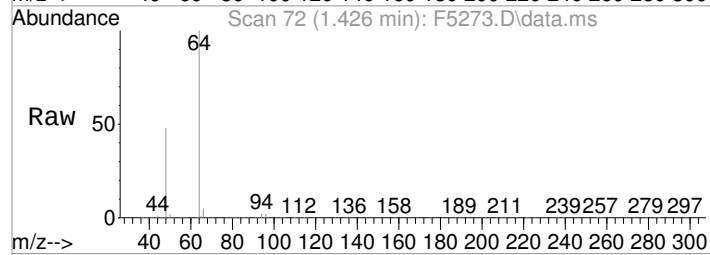
Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5273.D
 Acq On : 28 Mar 2019 4:11 am
 Operator : F.NAEGLER
 Sample : R1902432-006|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 47 Sample Multiplier: 1
 Inst : MSVOA14

Quant Time: Mar 31 12:29:39 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

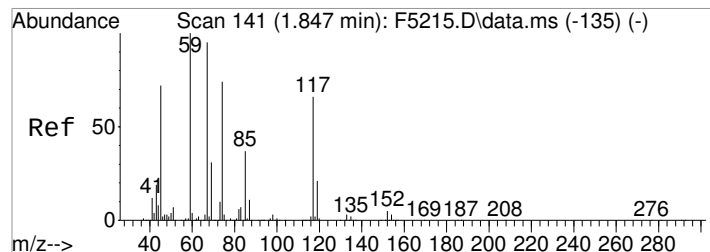
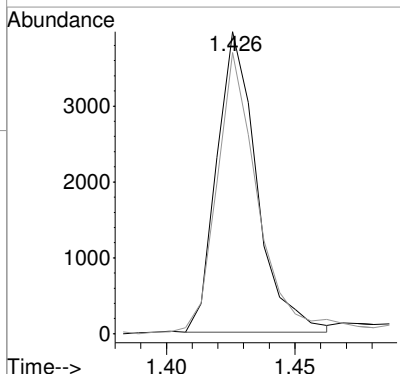
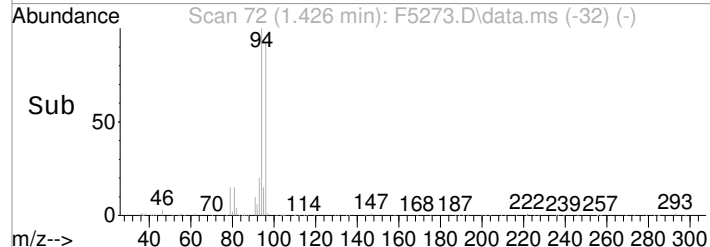




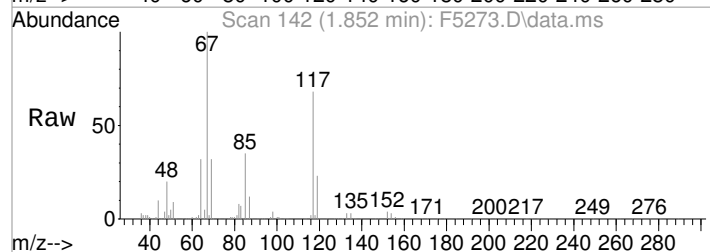
#5
 Bromomethane
 Concen: 1.91 ug/L
 RT: 1.426 min Scan# 72
 Delta R.T. 0.019 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am



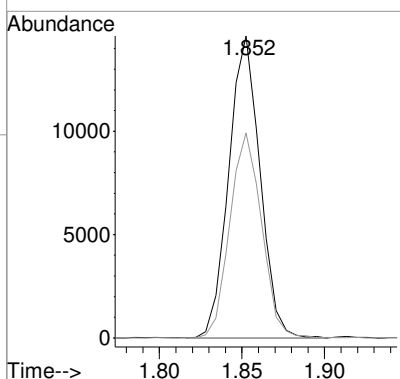
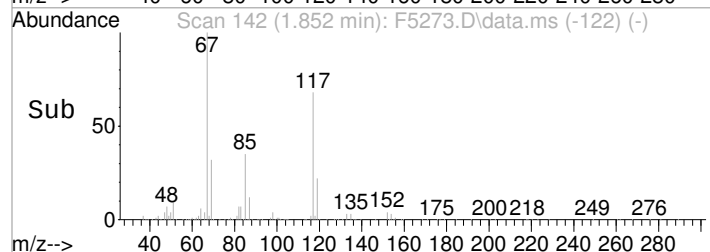
Tgt Ion: 94 Resp: 4305
 Ion Ratio Lower Upper
 94 100
 96 93.1 74.5 114.5

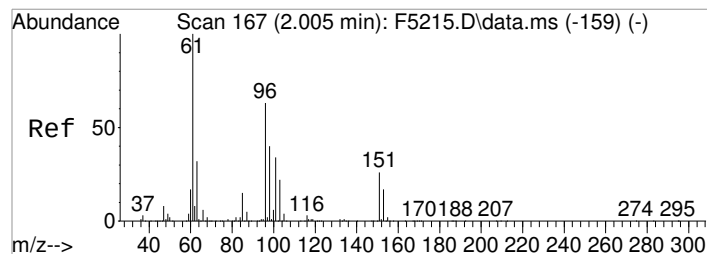


#10
 Freon 123a
 Concen: 7.29 ug/L
 RT: 1.852 min Scan# 142
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am



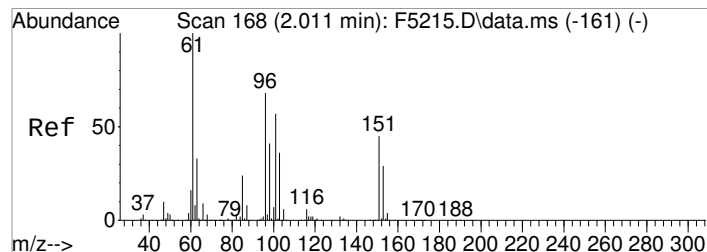
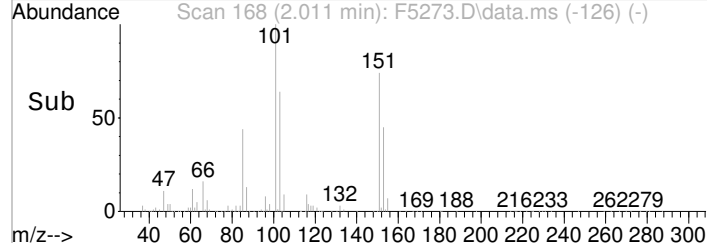
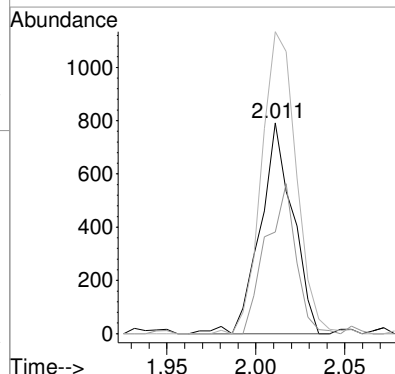
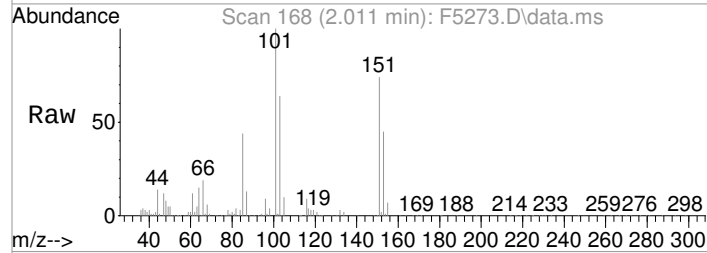
Tgt Ion: 67 Resp: 19240
 Ion Ratio Lower Upper
 67 100
 117 67.9 49.9 89.9





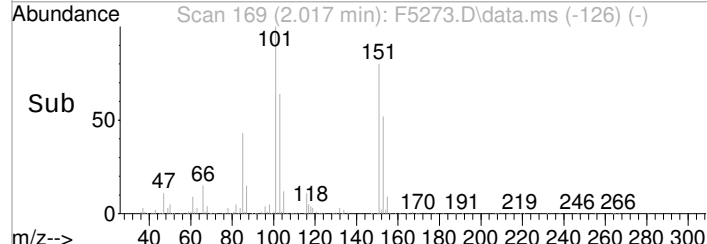
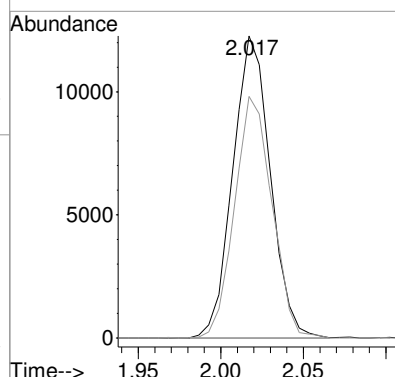
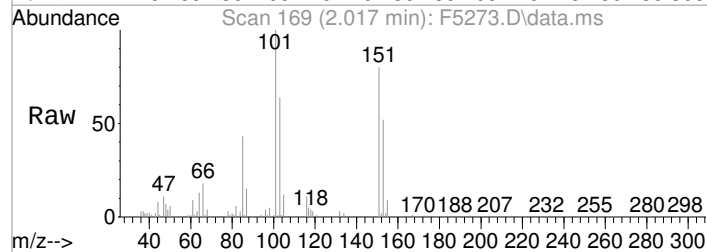
#13
 1,1-Dicethene
 Concen: 0.47 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

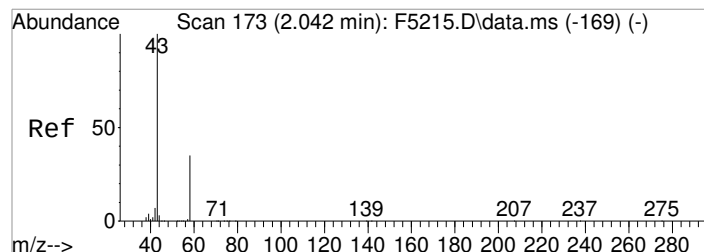
Tgt Ion: 96 Resp: 1009
 Ion Ratio Lower Upper
 96 100
 98 48.2 43.1 83.1
 61 143.2 139.3 179.3



#14
 Freon 113
 Concen: 10.05 ug/L
 RT: 2.017 min Scan# 169
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

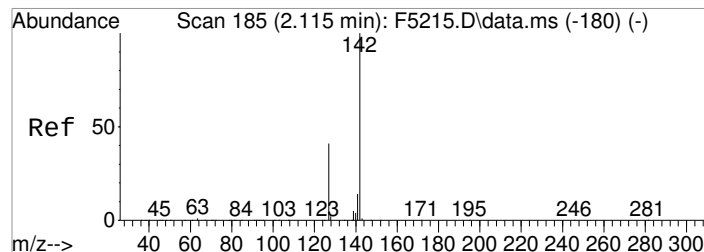
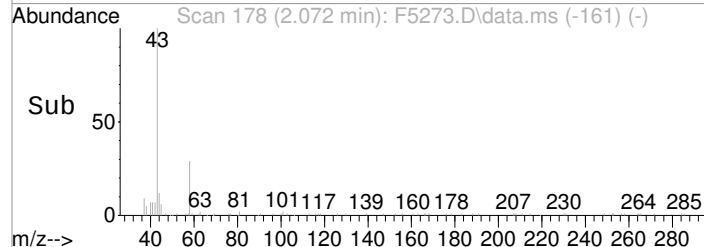
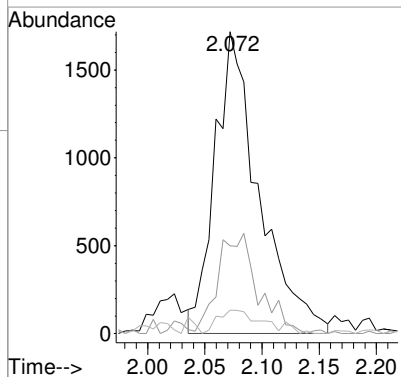
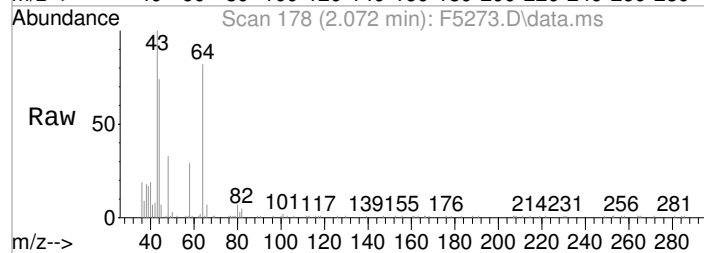
Tgt Ion: 101 Resp: 19389
 Ion Ratio Lower Upper
 101 100
 151 79.9 59.4 99.4





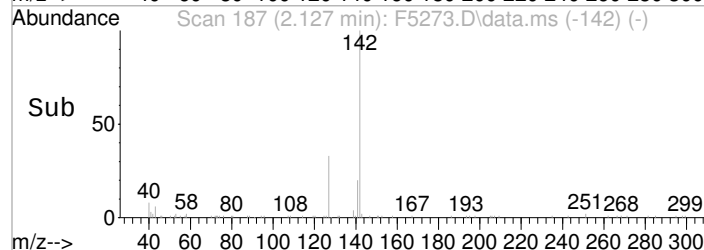
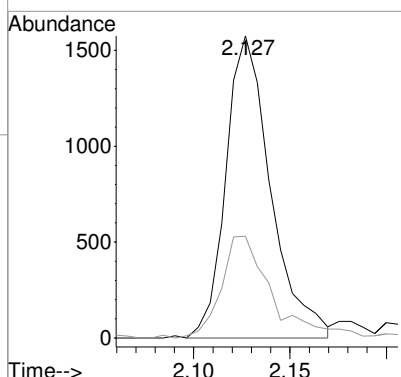
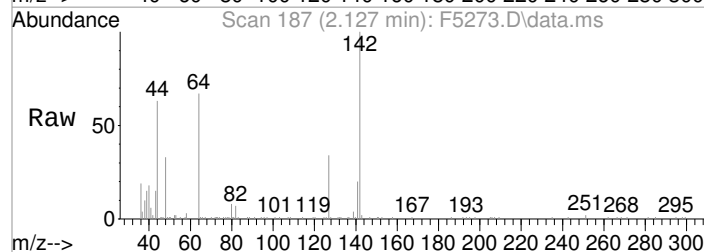
#15
 Acetone
 Concen: 3.69 ug/L m
 RT: 2.072 min Scan# 178
 Delta R.T. 0.031 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

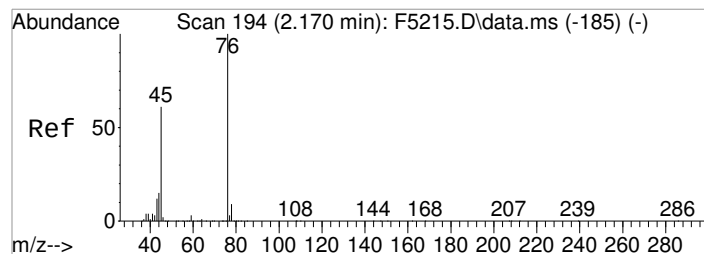
Tgt Ion: 43 Resp: 4590
 Ion Ratio Lower Upper
 43 100
 58 29.0 14.7 54.7
 42 7.8 0.0 27.4



#17
 Iodomethane
 Concen: 2.10 ug/L
 RT: 2.127 min Scan# 187
 Delta R.T. 0.013 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

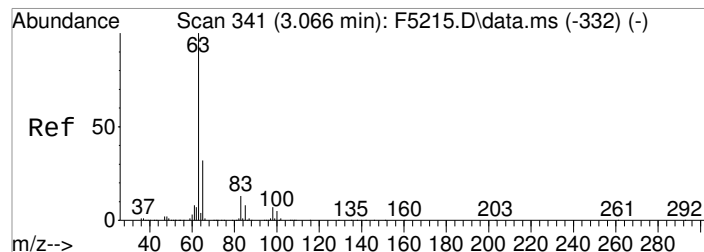
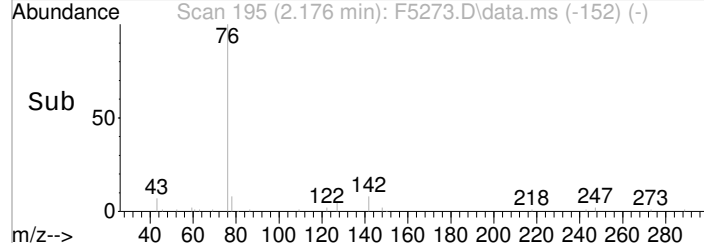
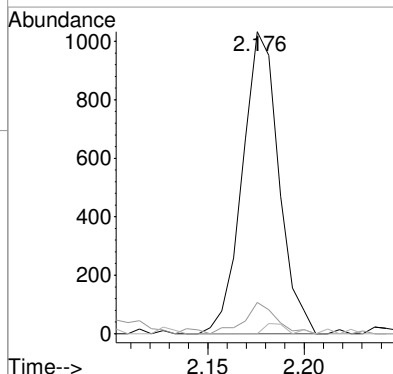
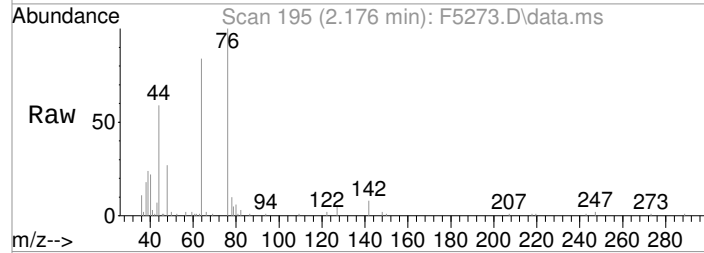
Tgt Ion: 142 Resp: 2546
 Ion Ratio Lower Upper
 142 100
 127 33.7 21.2 61.2





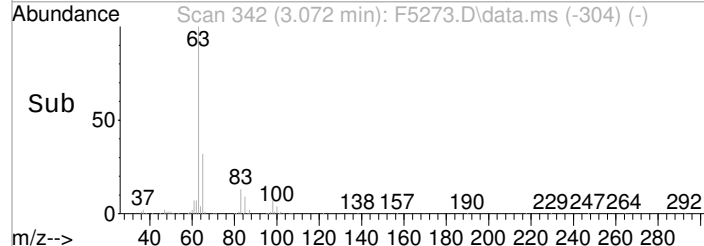
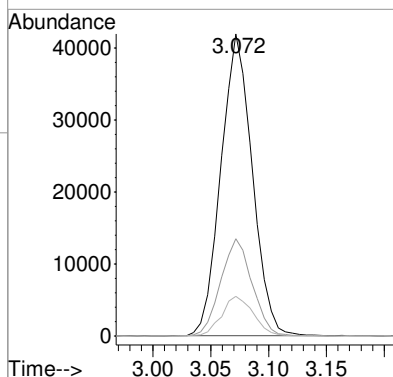
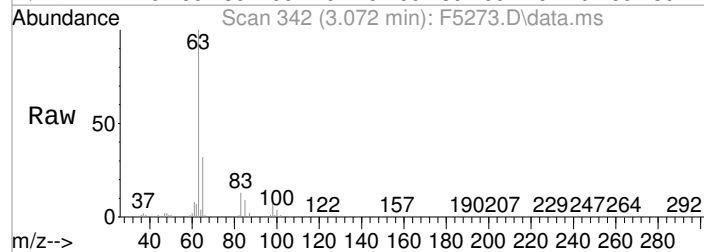
#18
 Carbon Disulfide
 Concen: 0.24 ug/L
 RT: 2.176 min Scan# 195
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

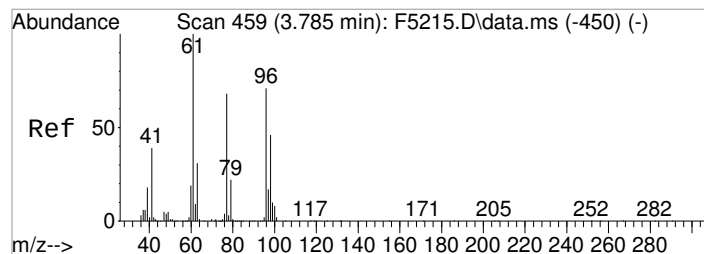
Tgt Ion: 76	Resp: 1358
Ion Ratio	Lower Upper
76 100	
78 10.4	0.0 29.3
77 0.0	0.0 22.6



#27
 1,1-Dicethane
 Concen: 18.05 ug/L
 RT: 3.072 min Scan# 342
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

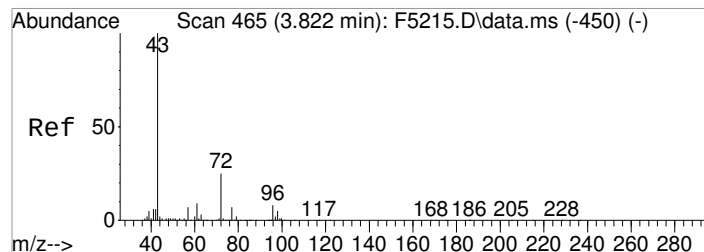
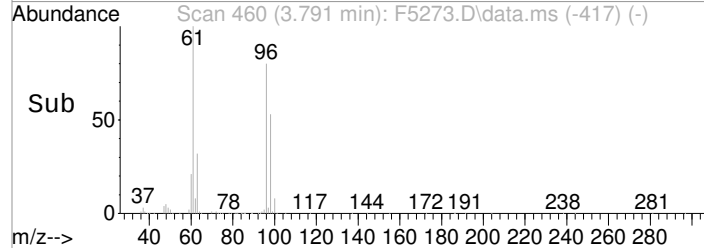
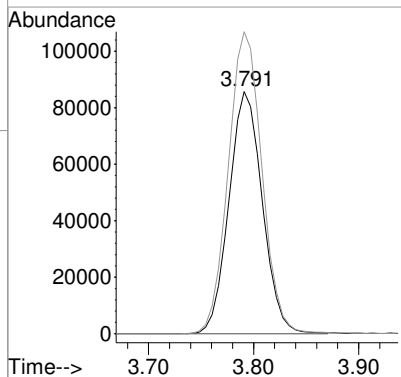
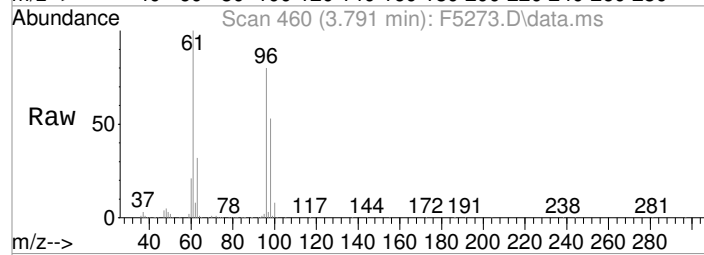
Tgt Ion: 63	Resp: 78968
Ion Ratio	Lower Upper
63 100	
65 32.1	11.9 51.9
83 13.1	0.0 33.3





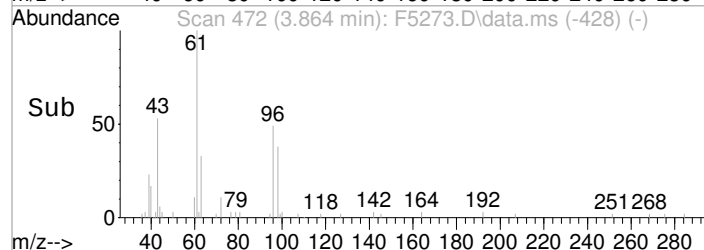
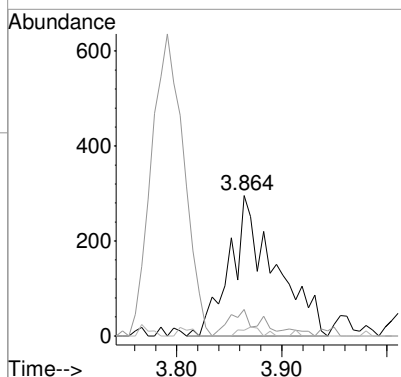
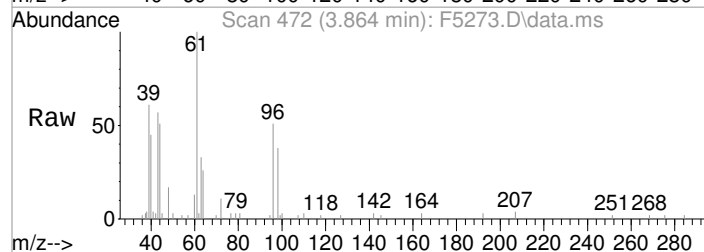
#33
 cis-1,2-Dichloroethene
 Concen: 68.37 ug/L
 RT: 3.791 min Scan# 460
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

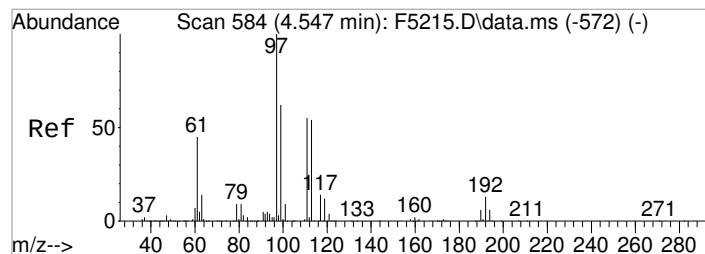
Tgt Ion: 96 Resp: 187933
 Ion Ratio Lower Upper
 96 100
 61 124.7 120.6 160.6



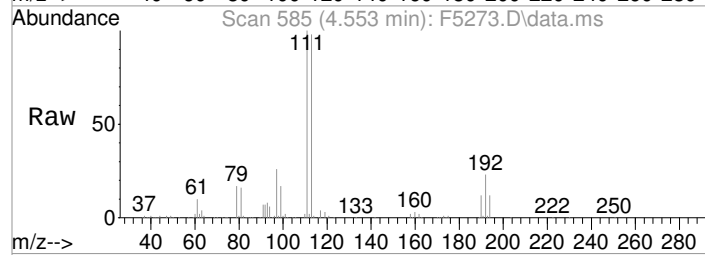
#34
 2-Butanone
 Concen: 0.47 ug/L
 RT: 3.864 min Scan# 472
 Delta R.T. 0.043 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

Tgt Ion: 43 Resp: 876
 Ion Ratio Lower Upper
 43 100
 72 18.9 4.8 44.8
 57 4.1 0.0 27.7

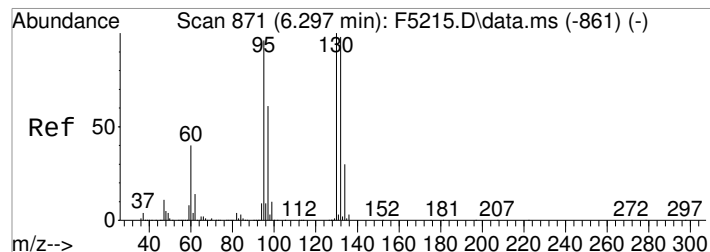
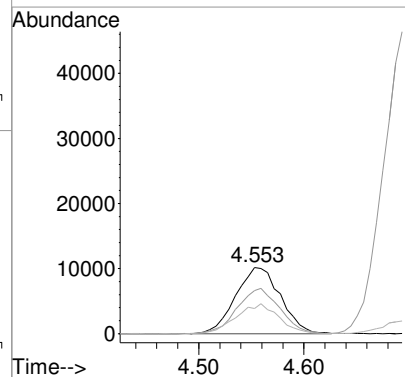
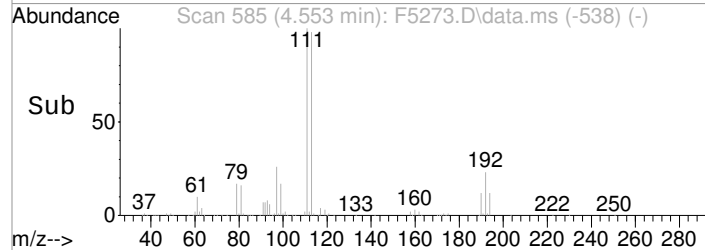




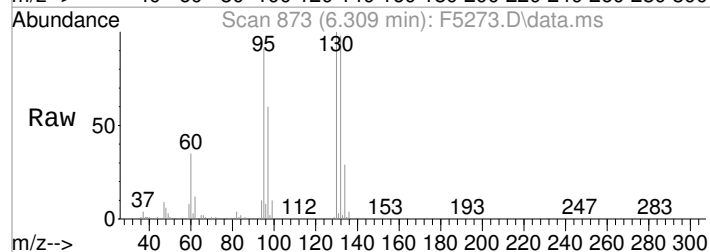
#40
 1,1,1-Trichloroethane
 Concen: 8.87 ug/L
 RT: 4.553 min Scan# 585
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am



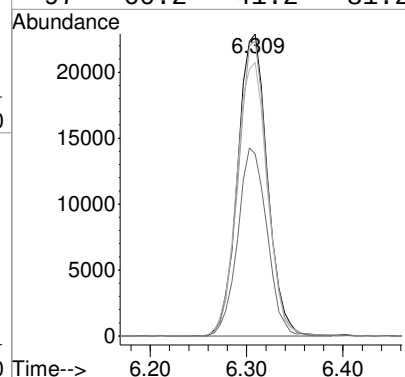
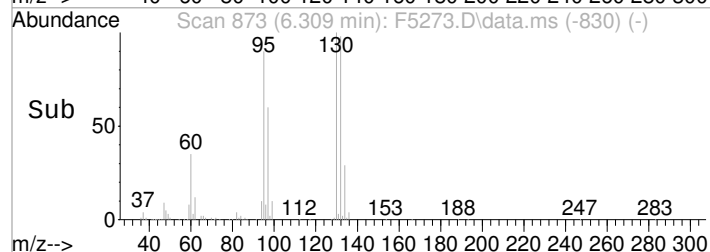
Tgt Ion:	97	Resp:	30018
Ion Ratio	100	Lower	Upper
99	65.3	41.7	81.7
61	38.1	25.1	65.1

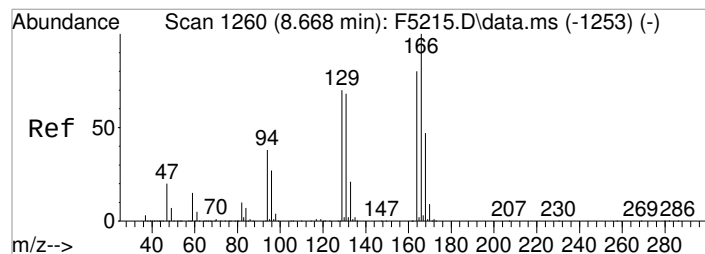


#53
 Trichloroethene
 Concen: 18.05 ug/L
 RT: 6.309 min Scan# 873
 Delta R.T. 0.012 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am

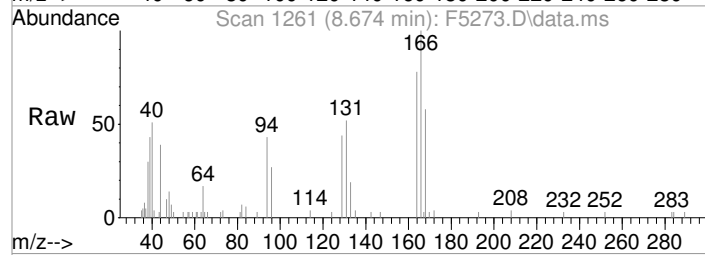


Tgt Ion:	130	Resp:	49044
Ion Ratio	100	Lower	Upper
132	97.6	78.0	118.0
95	90.5	76.2	116.2
97	60.2	41.2	81.2

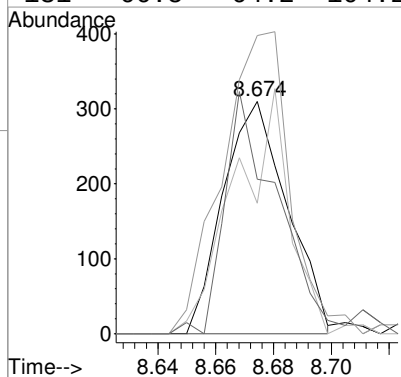
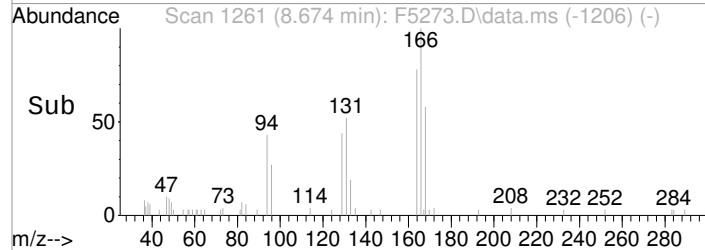




#71
 Tetrachloroethene
 Concen: 0.23 ug/L
 RT: 8.674 min Scan# 1261
 Delta R.T. 0.006 min
 Lab File: F5273.D
 Acq: 28 Mar 2019 4:11 am



Tgt Ion:	164	Resp:	477
Ion Ratio		Lower	Upper
164	100		
166	128.4	104.6	144.6
129	56.1	66.7	106.7#
131	66.5	64.2	104.2



Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5307.D
 Acq On : 28 Mar 2019 6:42 pm
 Operator : F.NAEGLER
 Sample : R1902432-007|10.0
 Misc : VERINA 6646 T4
 ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA14

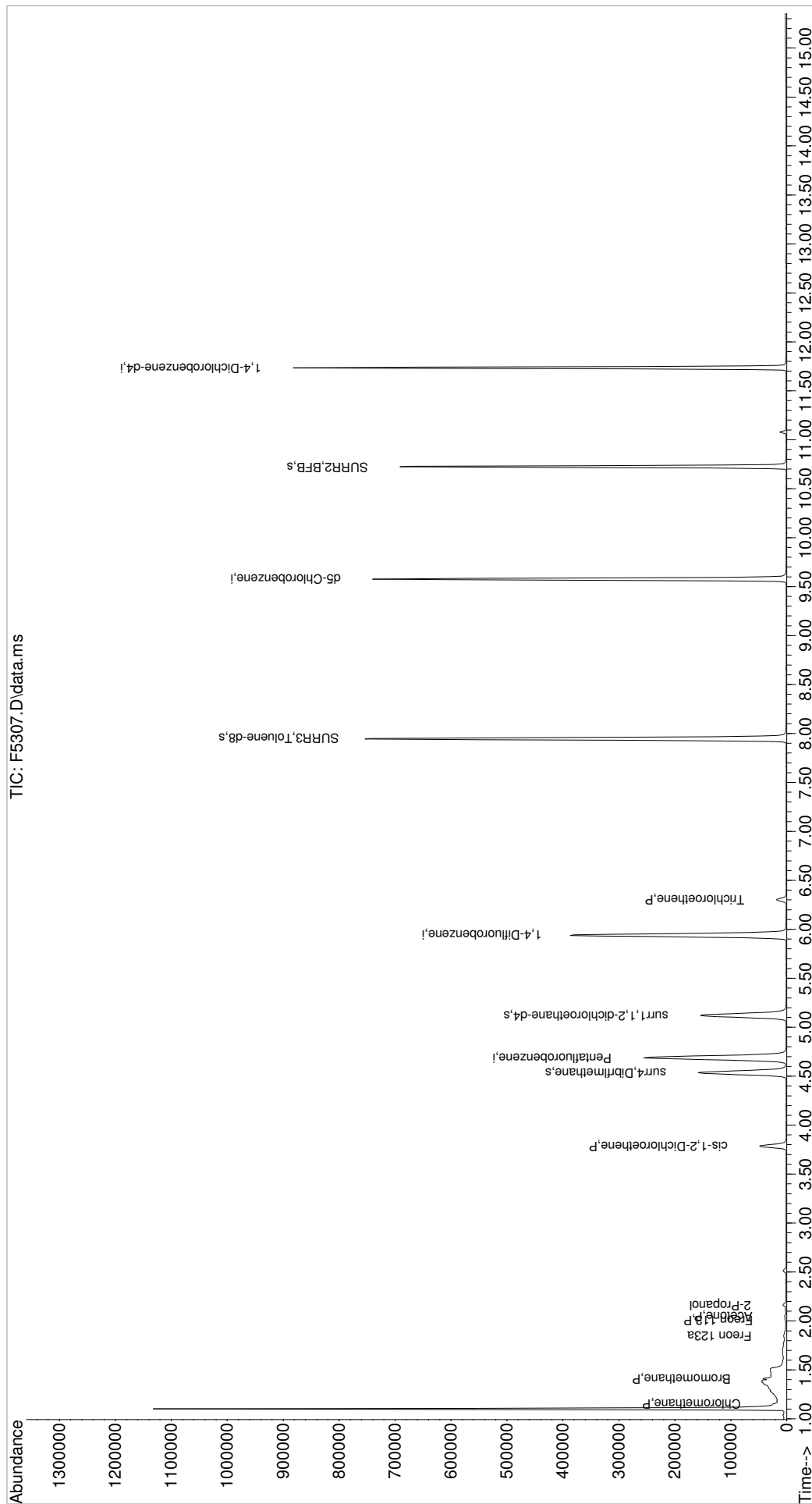
Quant Time: Apr 02 10:21:39 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

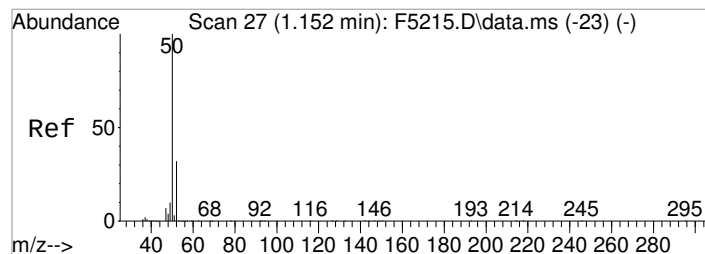
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	261953	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	390939	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	344687	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	179168	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	130061	49.93	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.86%	
47) surr1,1,2-dichloroetha...	5.120	65	153361	50.24	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.48%	
64) SURR3,Toluene-d8	7.949	98	499972	48.08	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.16%	
69) SURR2,BFB	10.723	95	181281	45.02	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	90.04%	
Target Compounds						
3) Chloromethane	1.152	50	2879	0.84	ug/L	92
5) Bromomethane	1.408	94	5029	2.20	ug/L	97
10) Freon 123a	1.846	67	599	0.22	ug/L #	72
14) Freon 113	2.011	101	501	0.25	ug/L #	70
15) Acetone	2.048	43	2314	1.81	ug/L	93
16) 2-Propanol	2.164	45	5565	19.54	ug/L	96
33) cis-1,2-Dichloroethene	3.785	96	25942	9.18	ug/L	90
53) Trichloroethene	6.303	130	6844	2.43	ug/L	95

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

Data Path : I:\ACQUDATA\MSV0A14\Data\032819\
 Data File : F5307.D
 Acq On : 28 Mar 2019 6:42 pm
 Operator : F.NAEGLER
 Sample : R1902432-007|10.0
 Misc : VERINA 6646 T4
 ALS Vial : 19 Sample Multiplier: 1
 Inst : MSV0A14

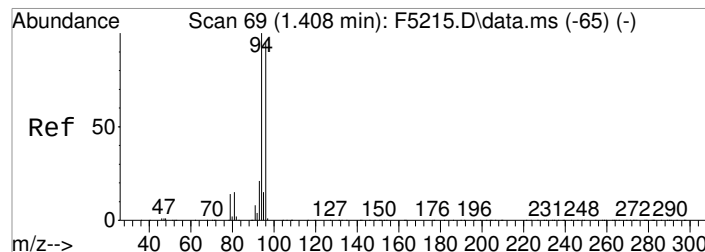
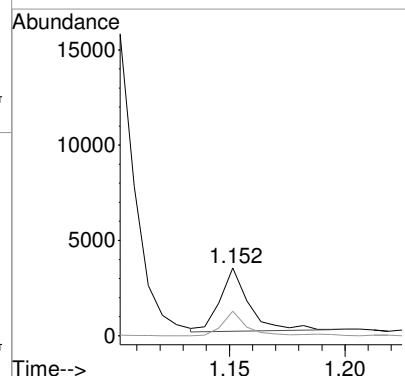
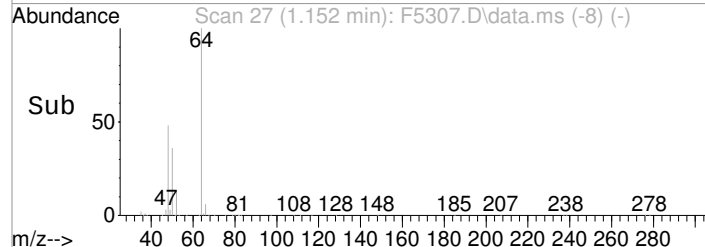
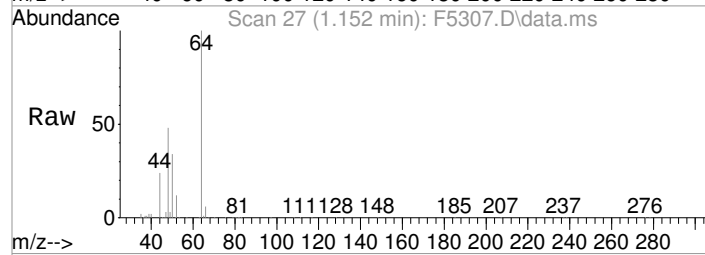
Quant Time: Apr 02 10:21:39 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration





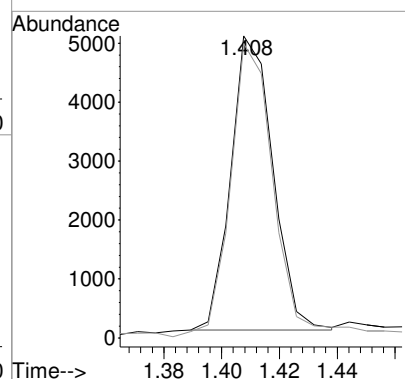
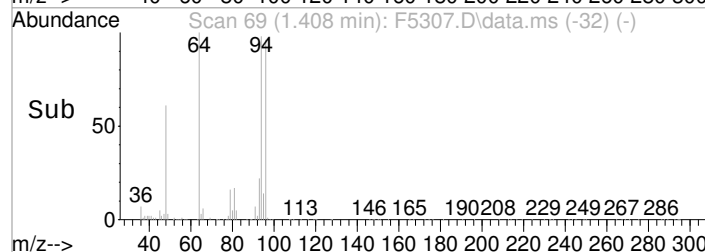
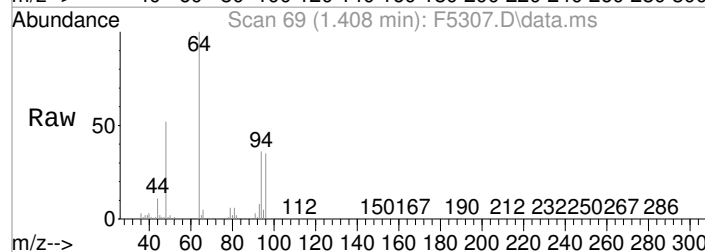
#3
 Chloromethane
 Concen: 0.84 ug/L
 RT: 1.152 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

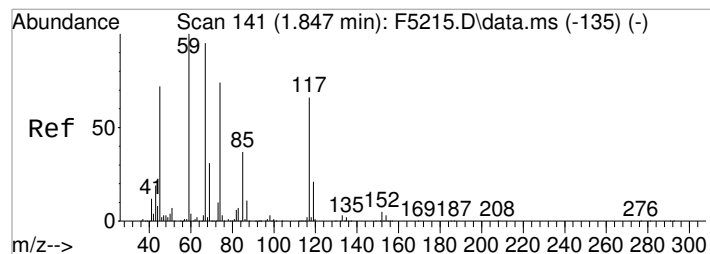
Tgt Ion: 50 Resp: 2879
 Ion Ratio Lower Upper
 50 100
 52 36.4 11.9 51.9



#5
 Bromomethane
 Concen: 2.20 ug/L
 RT: 1.408 min Scan# 69
 Delta R.T. 0.001 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

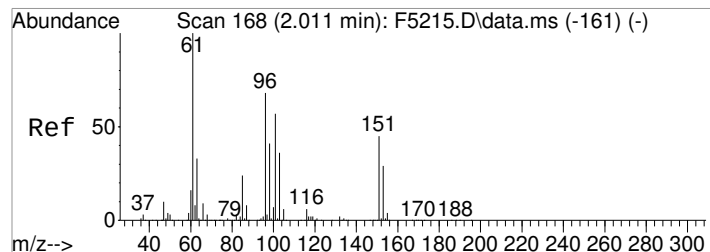
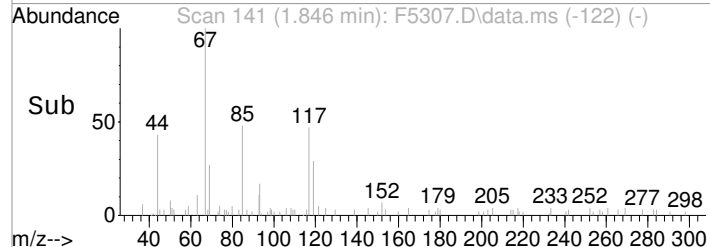
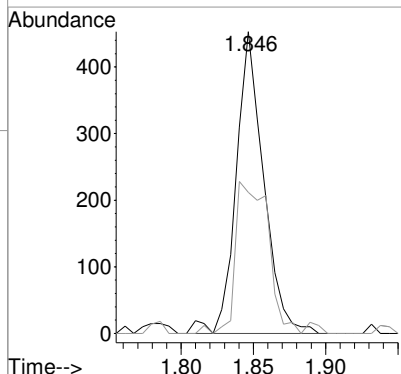
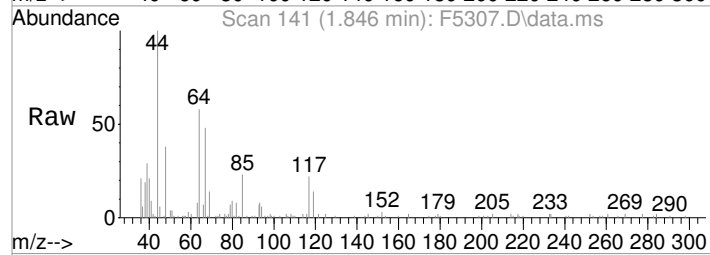
Tgt Ion: 94 Resp: 5029
 Ion Ratio Lower Upper
 94 100
 96 97.5 74.5 114.5





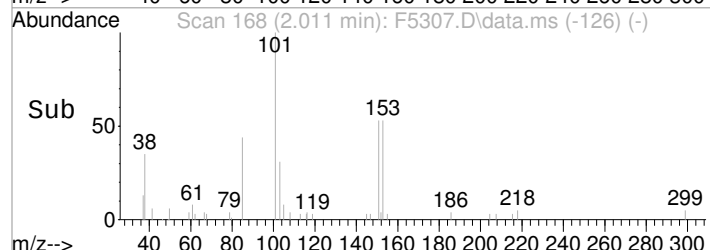
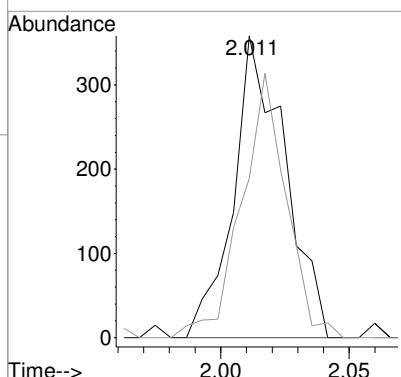
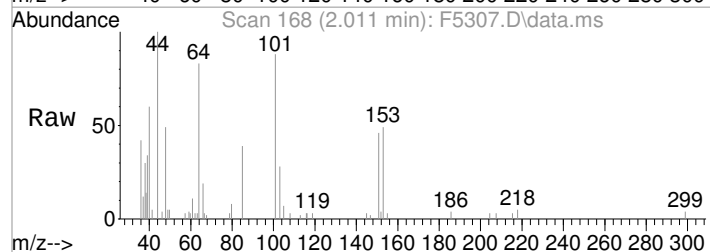
#10
 Freon 123a
 Concen: 0.22 ug/L
 RT: 1.846 min Scan# 141
 Delta R.T. -0.000 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

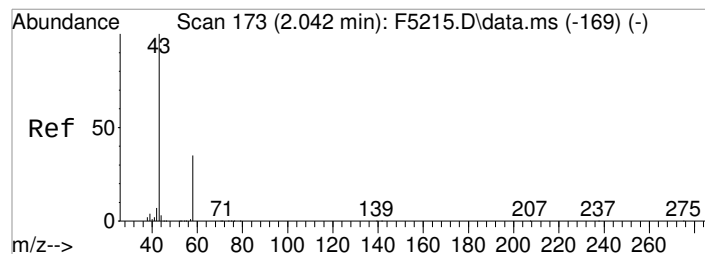
Tgt Ion: 67 Resp: 599
 Ion Ratio Lower Upper
 67 100
 117 46.8 49.9 89.9#



#14
 Freon 113
 Concen: 0.25 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

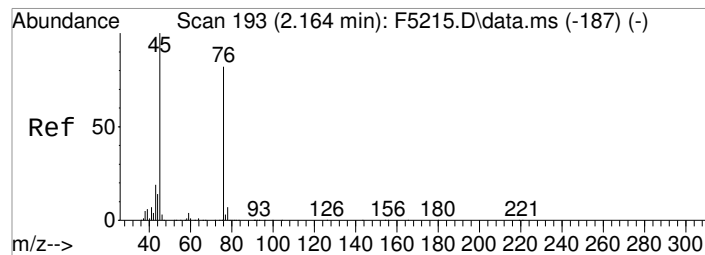
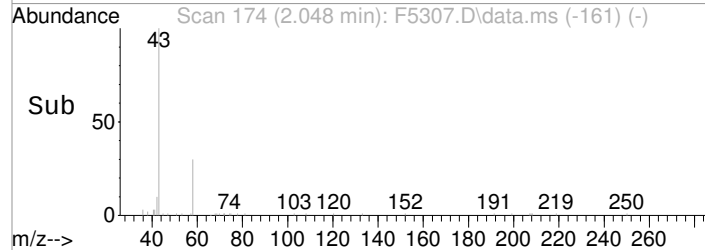
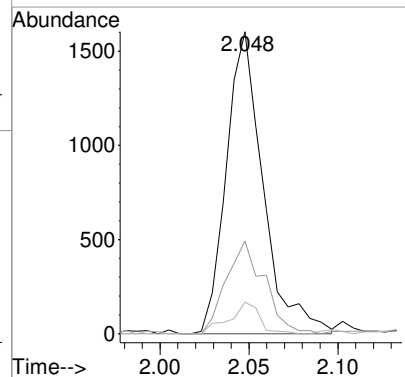
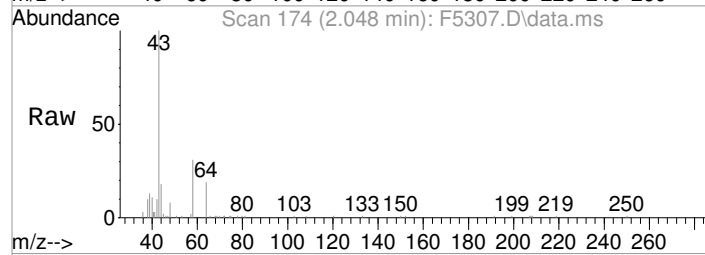
Tgt Ion: 101 Resp: 501
 Ion Ratio Lower Upper
 101 100
 151 52.8 59.4 99.4#





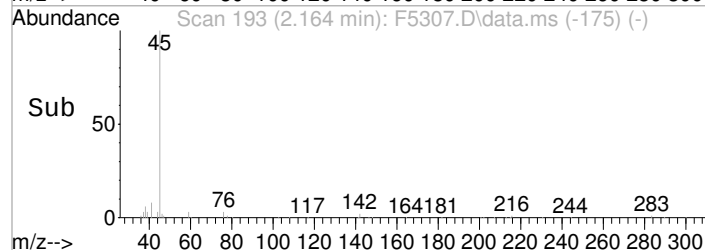
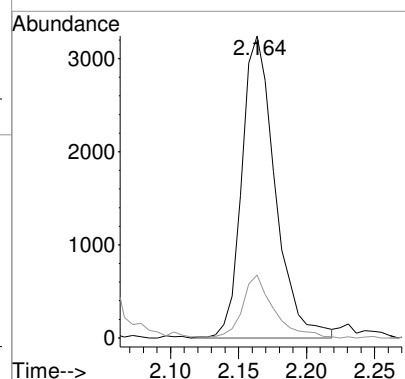
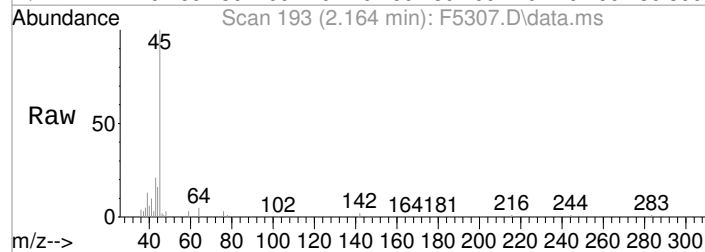
#15
 Acetone
 Concen: 1.81 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.007 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

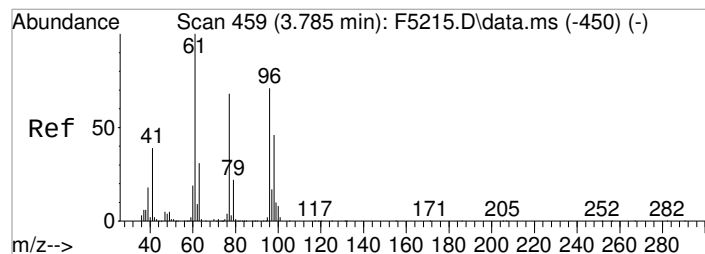
Tgt Ion: 43 Resp: 2314
 Ion Ratio Lower Upper
 43 100
 58 30.7 14.7 54.7
 42 10.5 0.0 27.4



#16
 2-Propanol
 Concen: 19.54 ug/L
 RT: 2.164 min Scan# 193
 Delta R.T. 0.001 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

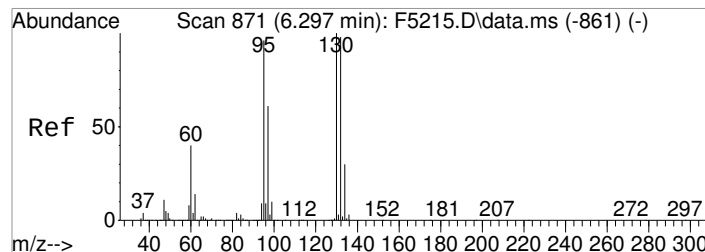
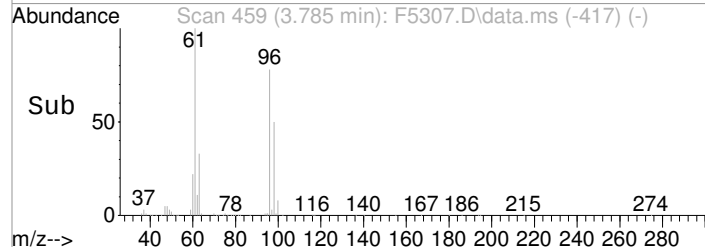
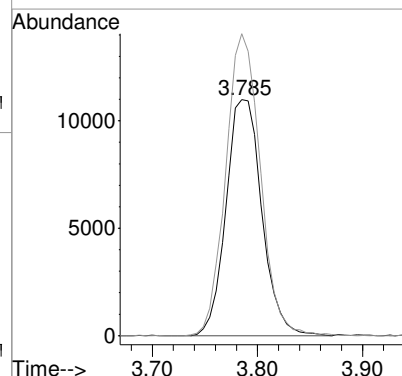
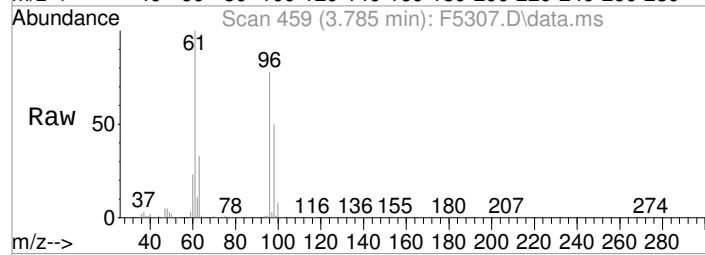
Tgt Ion: 45 Resp: 5565
 Ion Ratio Lower Upper
 45 100
 43 20.8 0.0 38.9





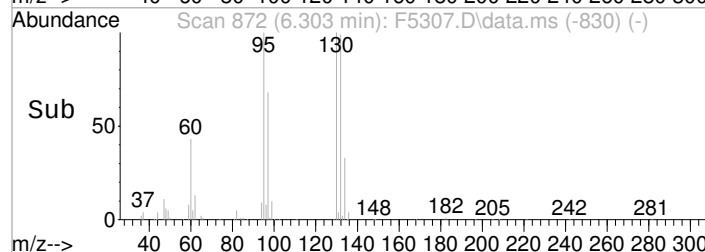
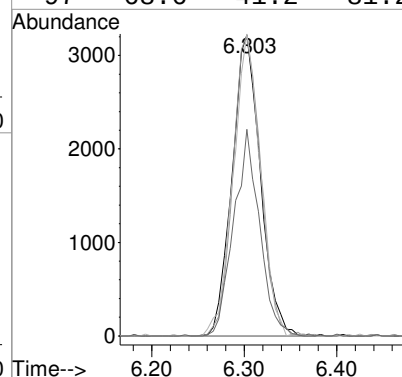
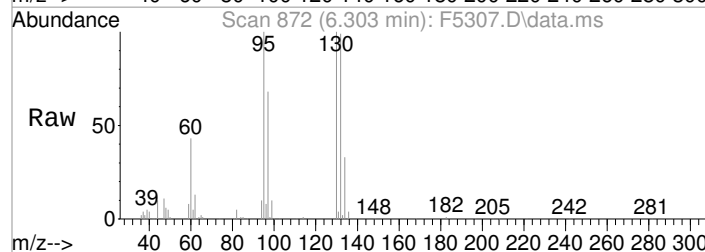
#33
 cis-1,2-Dichloroethene
 Concen: 9.18 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

Tgt Ion: 96 Resp: 25942
 Ion Ratio Lower Upper
 96 100
 61 128.0 120.6 160.6



#53
 Trichloroethene
 Concen: 2.43 ug/L
 RT: 6.303 min Scan# 872
 Delta R.T. 0.006 min
 Lab File: F5307.D
 Acq: 28 Mar 2019 6:42 pm

Tgt Ion: 130 Resp: 6844
 Ion Ratio Lower Upper
 130 100
 132 99.8 78.0 118.0
 95 100.3 76.2 116.2
 97 68.6 41.2 81.2



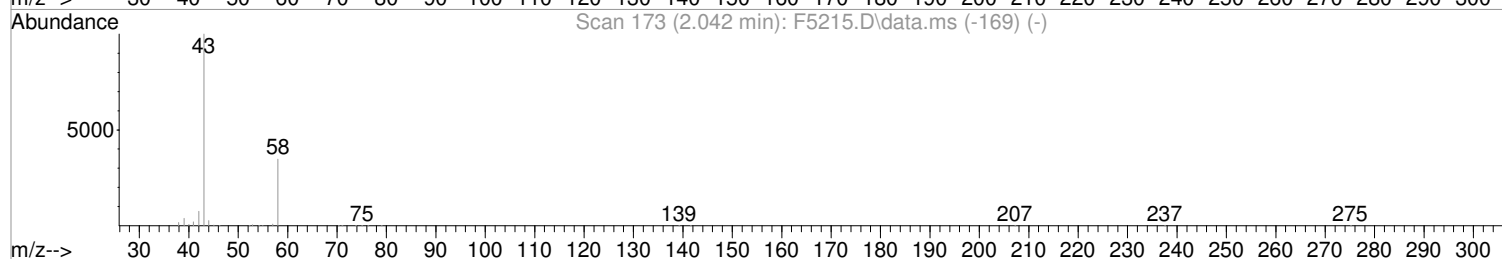
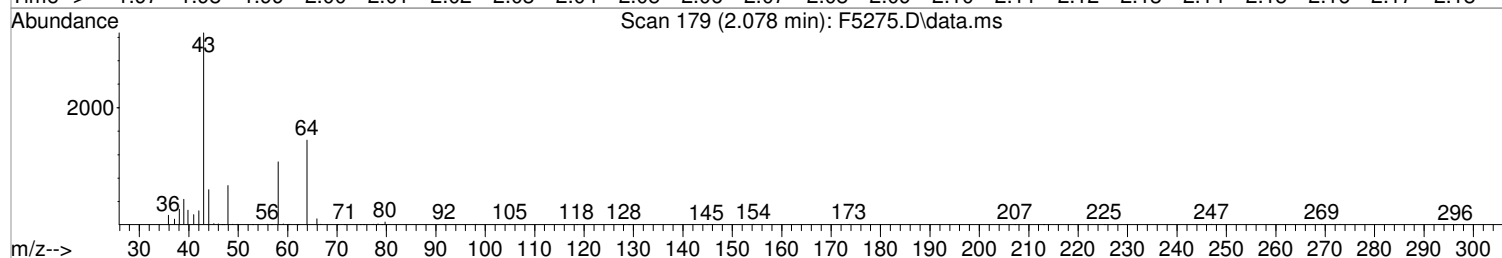
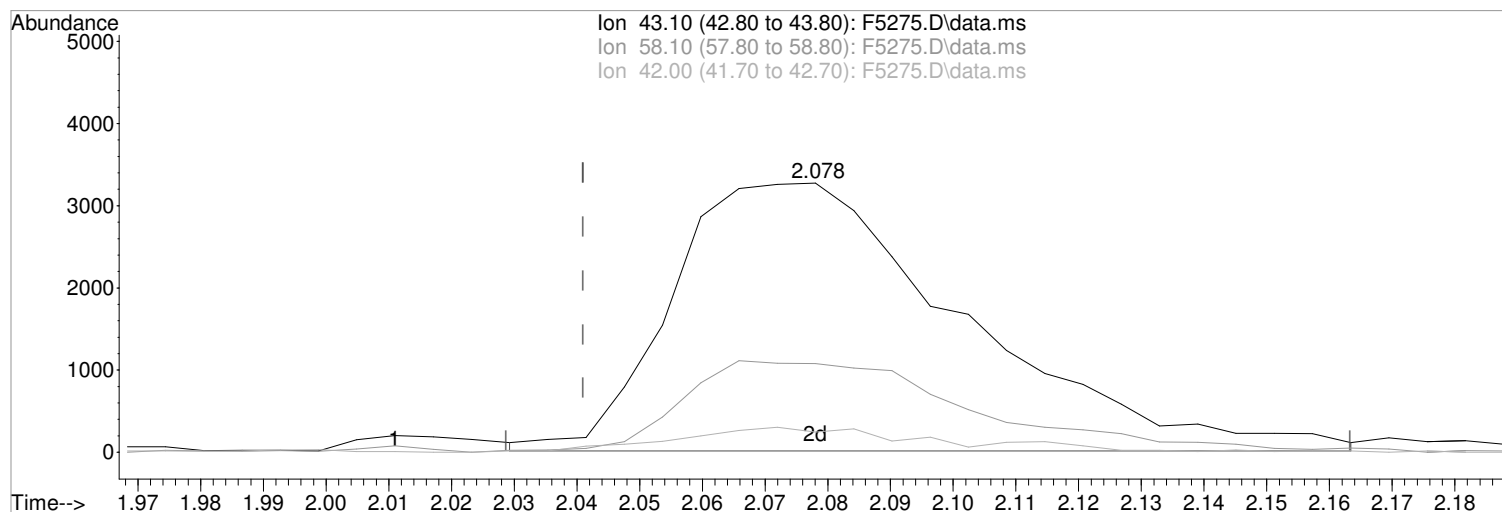
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5275.D
Acq On : 28 Mar 2019 4:52 am
Operator : F.NAEGLER
Sample : R1902432-008|1.0
Misc : VERINA 6646 T4
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:53 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(15) Acetone (P)
2.078min (+0.037) 8.45 ug/L m
response 10520

Manual Integration:

After

Peak not found.

03/31/19

Ion	Exp%	Act%
43.10	100	100
58.10	34.70	32.93
42.00	7.40	7.51
0.00	0.00	0.00

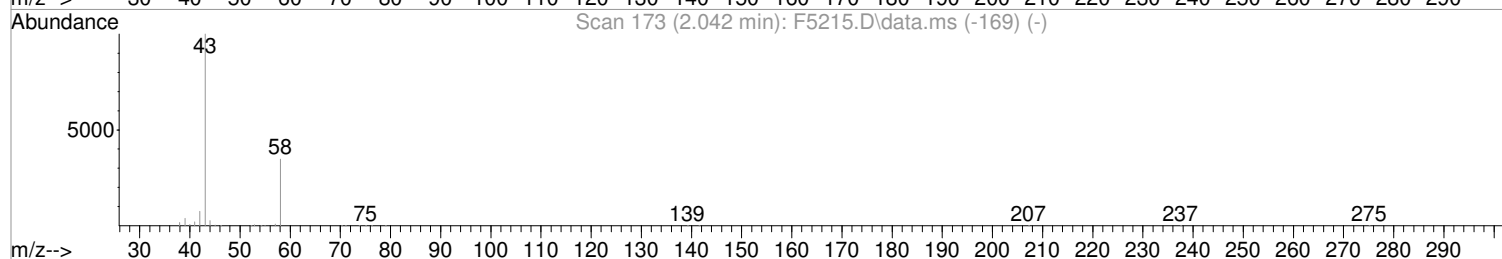
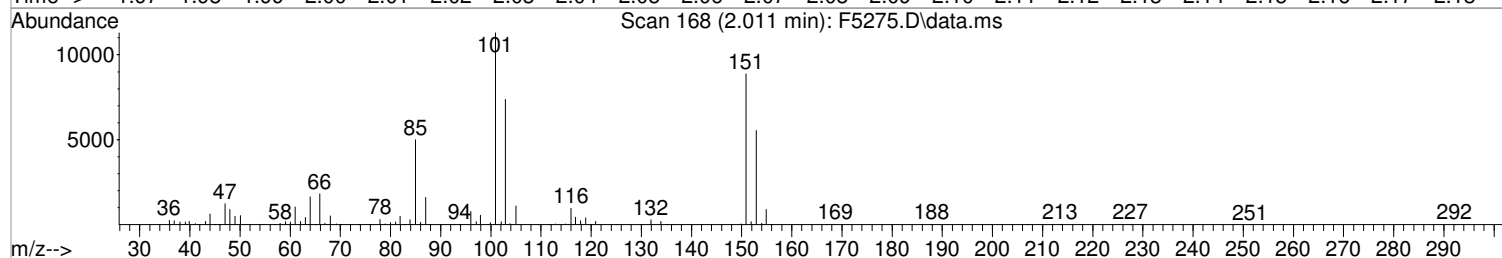
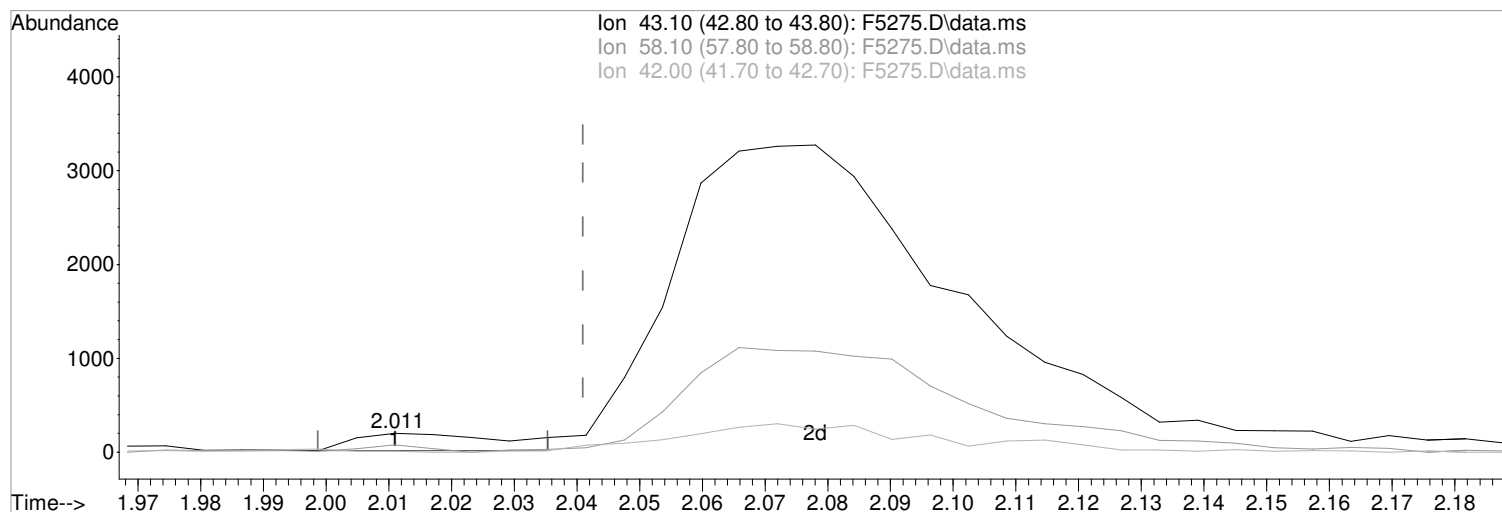
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5275.D
Acq On : 28 Mar 2019 4:52 am
Operator : F.NAEGLER
Sample : R1902432-008|1.0
Misc : VERINA 6646 T4
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:53 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(15) Acetone (P)

2.011min (-0.030) 0.26 ug/L

response 319

Ion	Exp%	Act%
43.10	100	100
58.10	34.70	38.31
42.00	7.40	4.98
0.00	0.00	0.00

Manual Integration:

Before

03/31/19

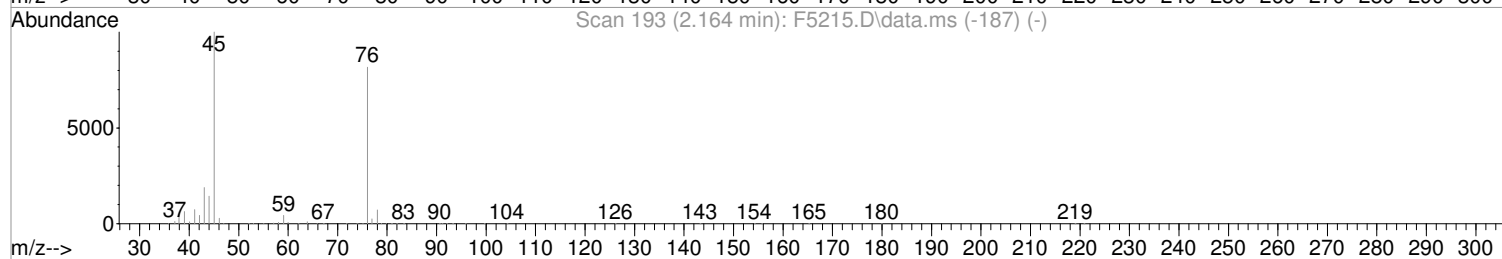
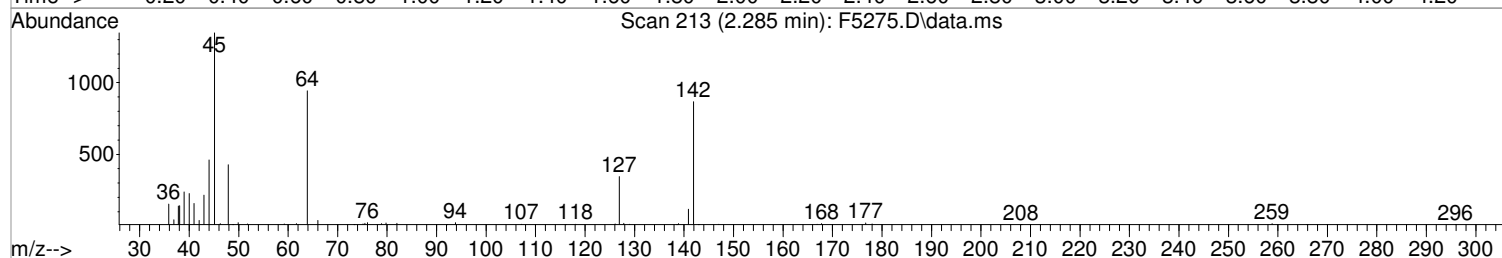
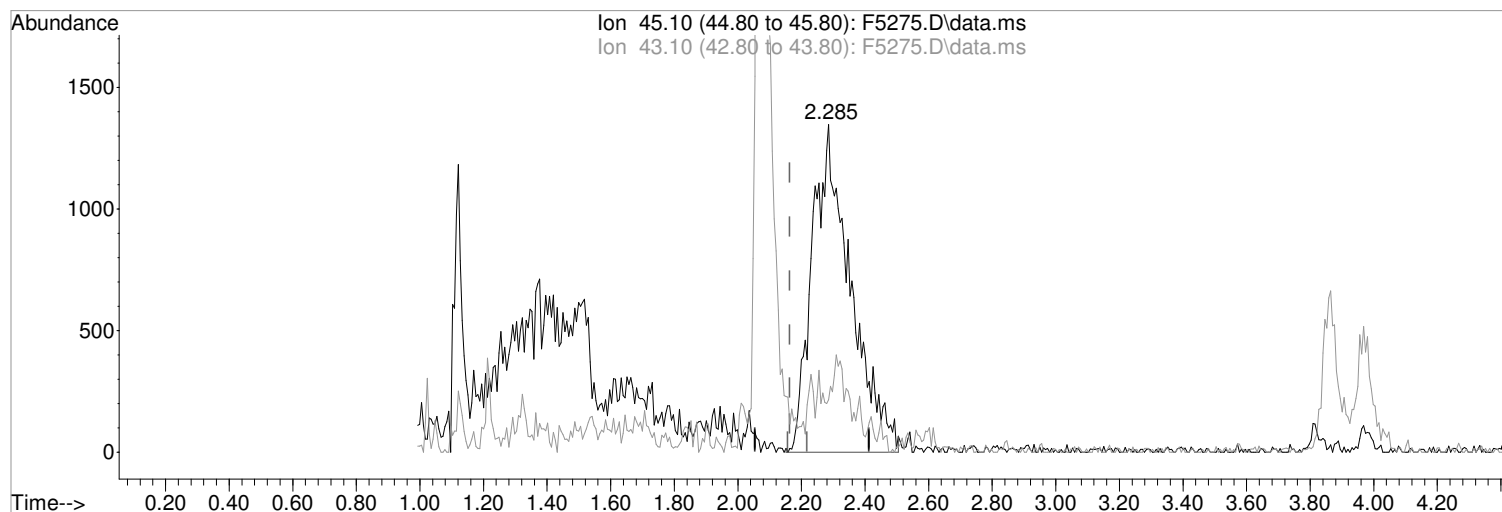
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5275.D
Acq On : 28 Mar 2019 4:52 am
Operator : F.NAEGLER
Sample : R1902432-008|1.0
Misc : VERINA 6646 T4
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:53 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5275.D\data.ms

(16) 2-Propanol

Manual Integration:

2.285min (+0.122) 40.59 ug/L m

After

response 11242

Peak not found.

Ion	Exp%	Act%
45.10	100	100
43.10	18.90	16.04
0.00	0.00	0.00
0.00	0.00	0.00

03/31/19

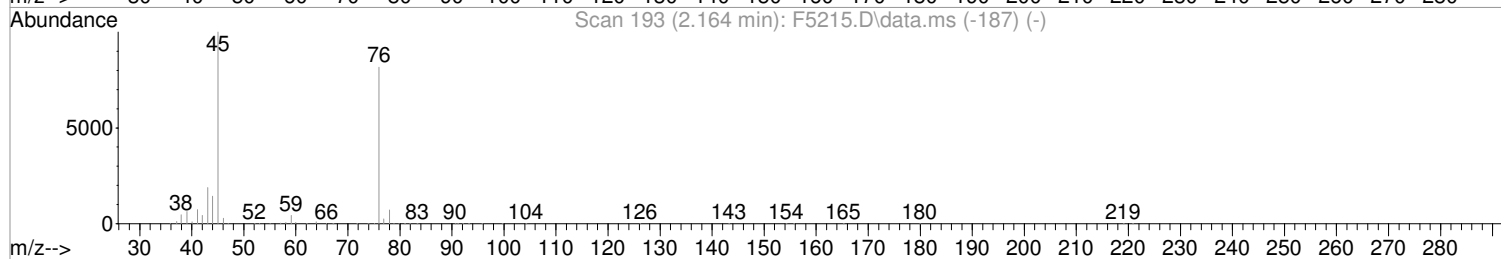
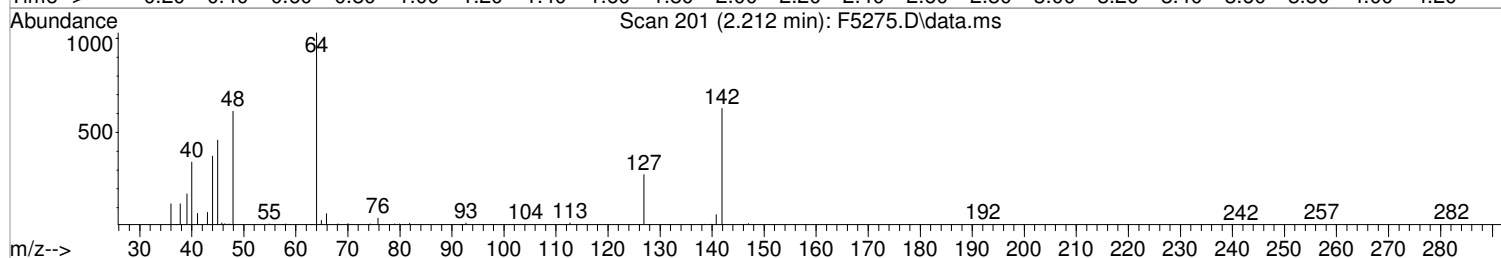
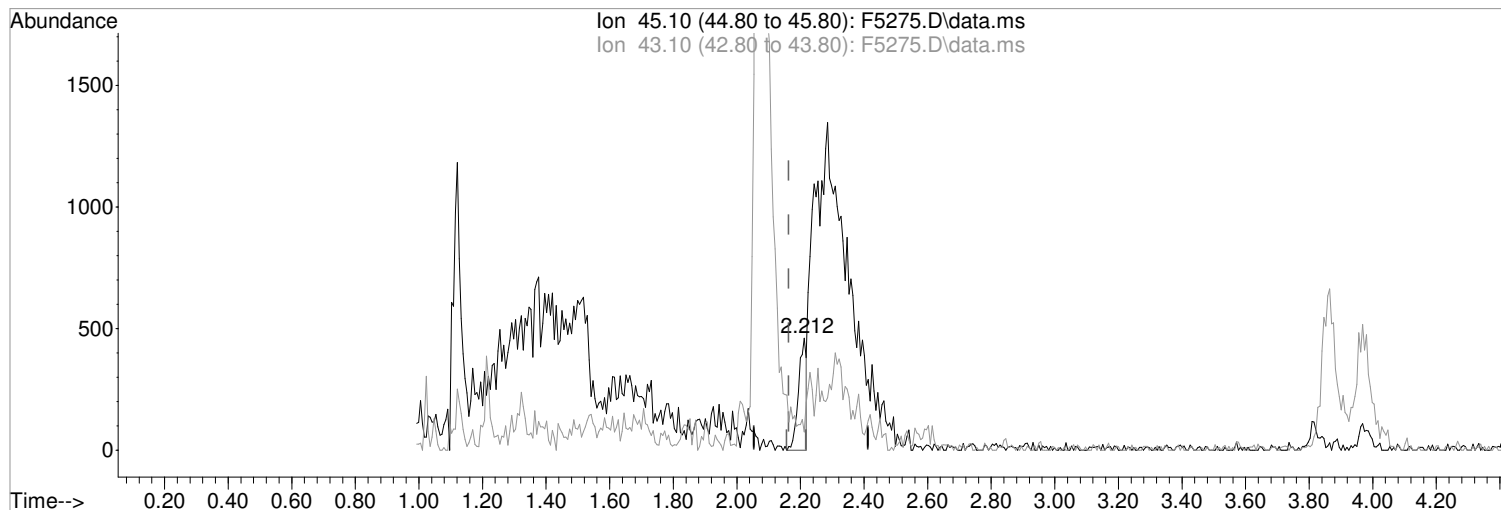
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5275.D
Acq On : 28 Mar 2019 4:52 am
Operator : F.NAEGLER
Sample : R1902432-008|1.0
Misc : VERINA 6646 T4
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:53 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5275.D\data.ms

(16) 2-Propanol

Manual Integration:

2.212min (+0.049) 2.85 ug/L

Before

response 788

Ion	Exp%	Act%
45.10	100	100
43.10	18.90	15.45
0.00	0.00	0.00
0.00	0.00	0.00

03/31/19

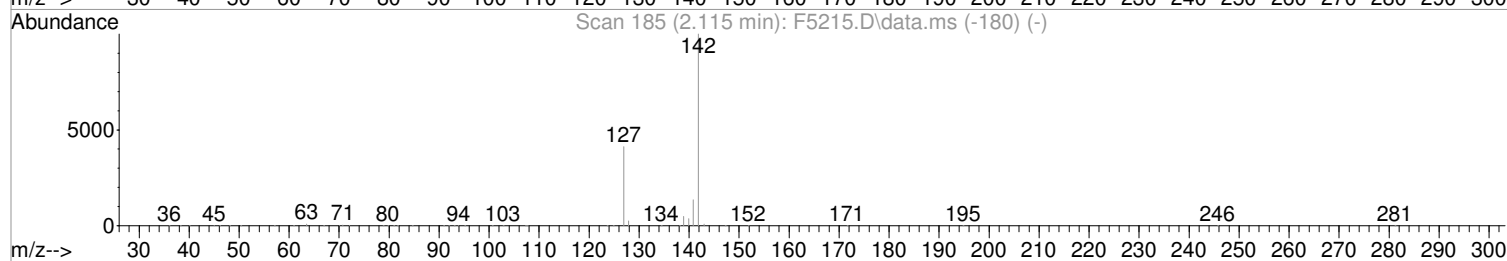
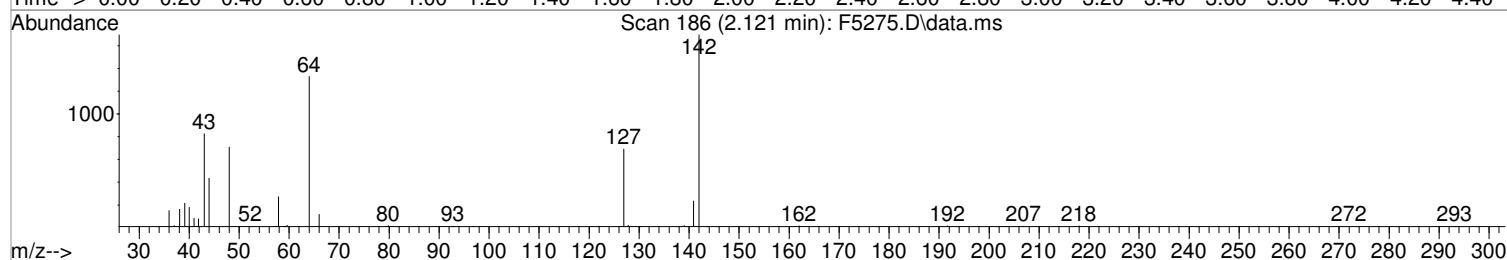
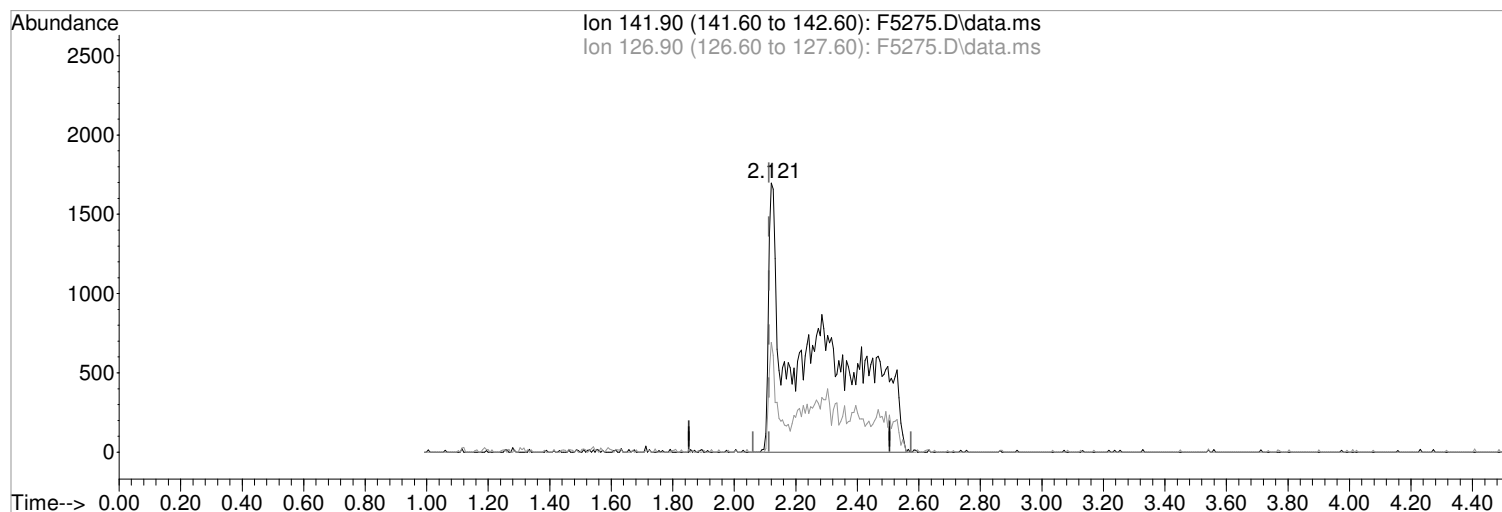
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5275.D
Acq On : 28 Mar 2019 4:52 am
Operator : F.NAEGLER
Sample : R1902432-008|1.0
Misc : VERINA 6646 T4
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:53 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5275.D\data.ms

(17) Iodomethane

2.121min (+0.007) 6.58 ug/L m

response 16099

Ion	Exp%	Act%
141.90	100	100
126.90	41.20	40.74
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

03/31/19

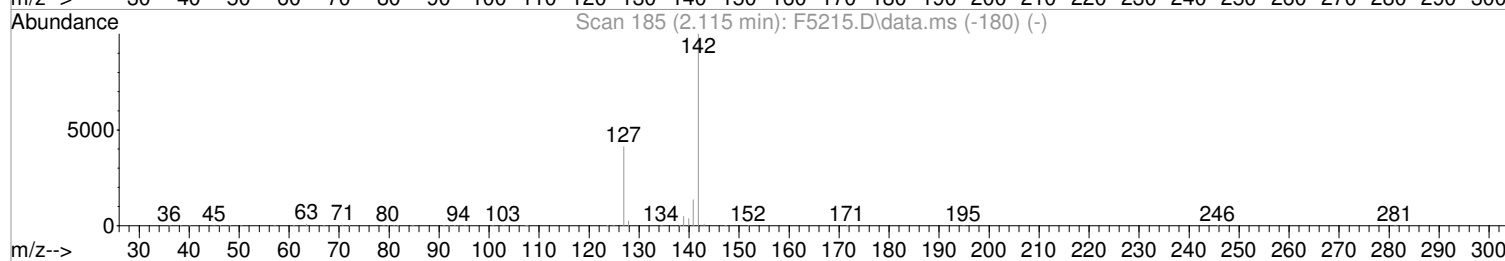
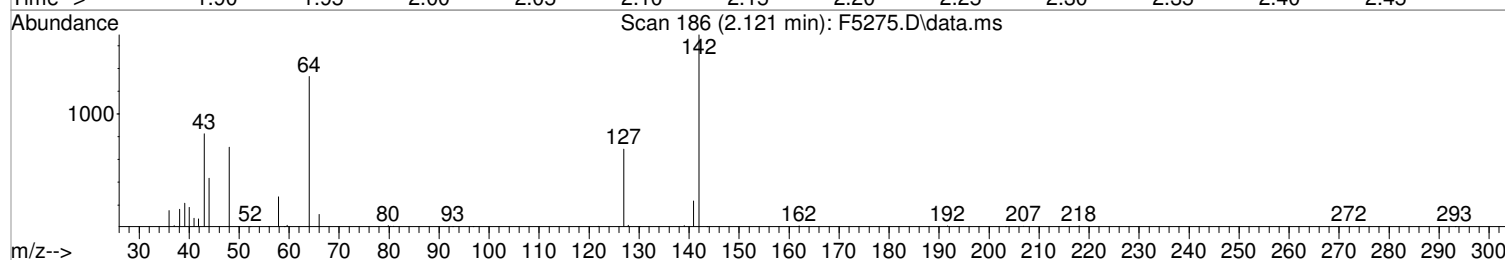
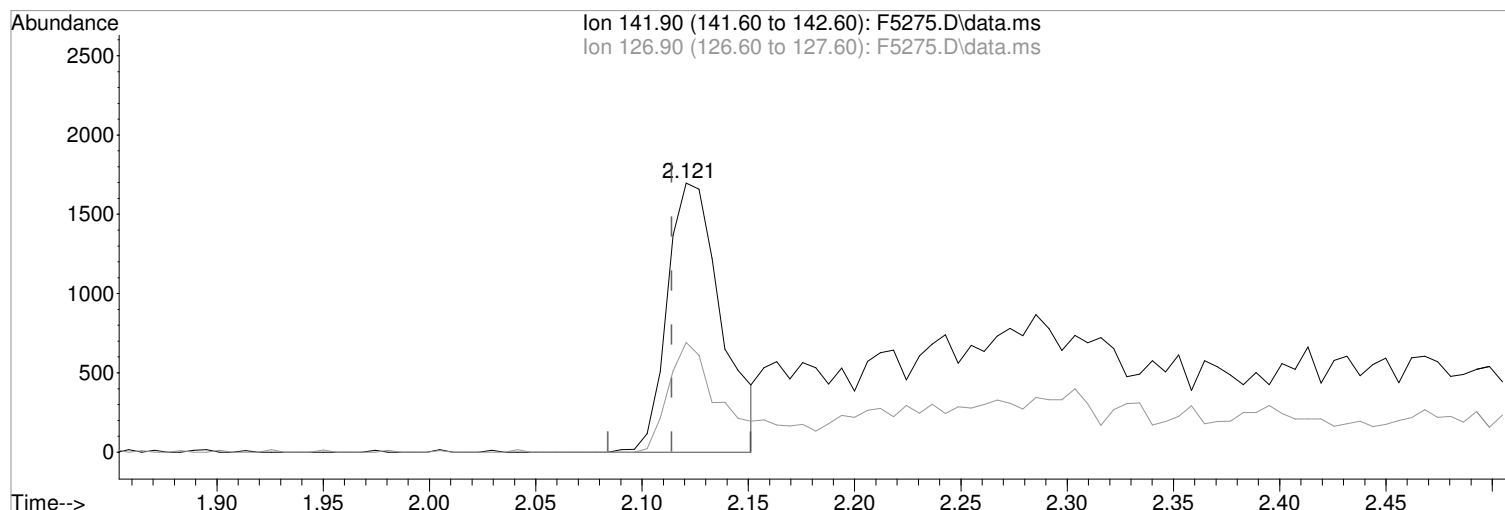
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5275.D
Acq On : 28 Mar 2019 4:52 am
Operator : F.NAEGLER
Sample : R1902432-008|1.0
Misc : VERINA 6646 T4
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:05:53 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5275.D\data.ms

(17) Iodomethane

Manual Integration:

2.121min (+0.007) 2.25 ug/L

Before

response 2996

Ion	Exp%	Act%
141.90	100	100
126.90	41.20	40.74
0.00	0.00	0.00
0.00	0.00	0.00

03/31/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5275.D
 Acq On : 28 Mar 2019 4:52 am
 Operator : F.NAEGLER
 Sample : R1902432-008|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

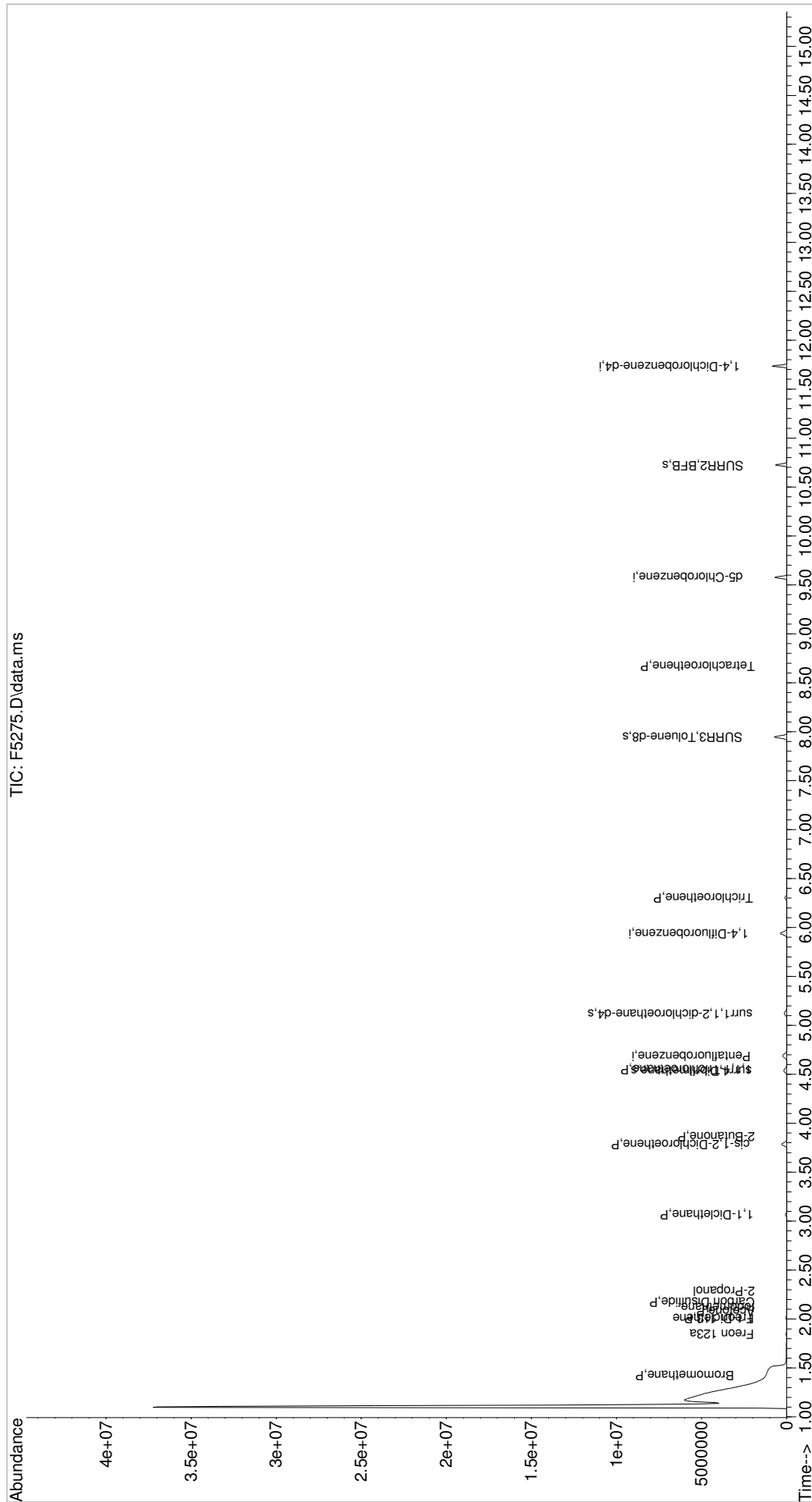
Quant Time: Mar 31 12:32:44 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

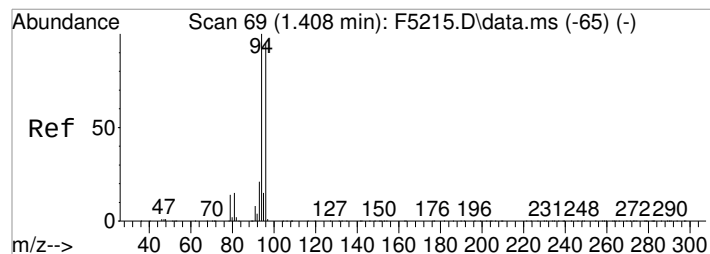
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	254705	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	378287	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	330708	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	172909	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	126291	50.10	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.20%	
47) surr1,1,2-dichloroetha...	5.120	65	146591	49.62	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.24%	
64) SURR3,Toluene-d8	7.943	98	482365	47.94	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	95.88%	
69) SURR2,BFB	10.723	95	175295	44.99	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	89.98%	
Target Compounds						
5) Bromomethane	1.426	94	6703	3.10	ug/L	Qvalue 94
10) Freon 123a	1.846	67	18297	6.93	ug/L	95
13) 1,1-Dicethene	2.005	96	1151	0.54	ug/L #	86
14) Freon 113	2.011	101	18300	9.49	ug/L	99
15) Acetone	2.078	43	10520m	8.45	ug/L	
16) 2-Propanol	2.285	45	11242m	40.59	ug/L	
17) Iodomethane	2.121	142	16099m	6.58	ug/L	
18) Carbon Disulfide	2.176	76	1493	0.27	ug/L	83
27) 1,1-Dicethane	3.066	63	76831	17.56	ug/L	100
33) cis-1,2-Dichloroethene	3.785	96	160836	58.53	ug/L	89
34) 2-Butanone	3.864	43	2198	1.19	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	29277	8.65	ug/L	95
53) Trichloroethene	6.303	130	43755	16.06	ug/L	98
71) Tetrachloroethene	8.674	164	639	0.30	ug/L #	83

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

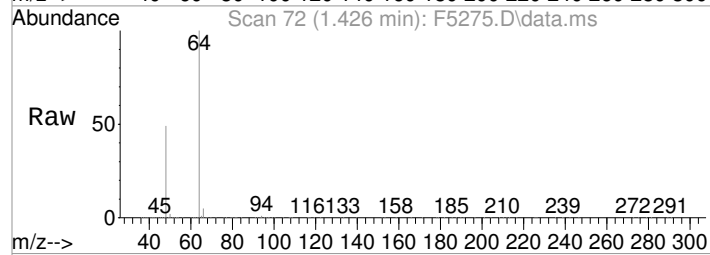
Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5275.D
 Acq On : 28 Mar 2019 4:52 am
 Operator : F.NAEGLER
 Sample : R1902432-008|1.0
 Misc : VERINA 6646 T4
 ALS Vial : 49 Sample Multiplier: 1
 Inst : MSVOA14

Quant Time: Mar 31 12:32:44 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

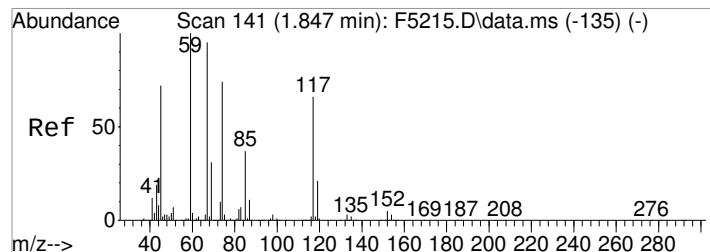
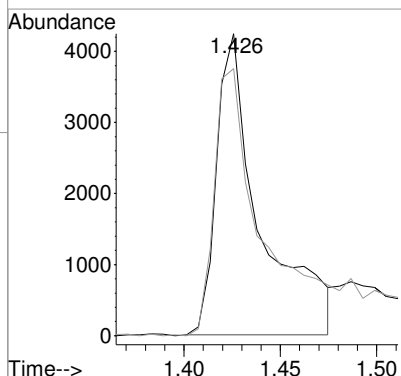
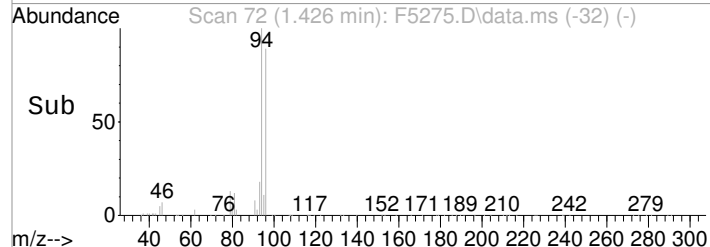




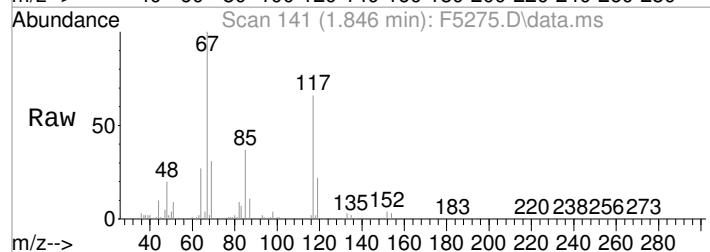
#5
 Bromomethane
 Concen: 3.10 ug/L
 RT: 1.426 min Scan# 72
 Delta R.T. 0.019 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am



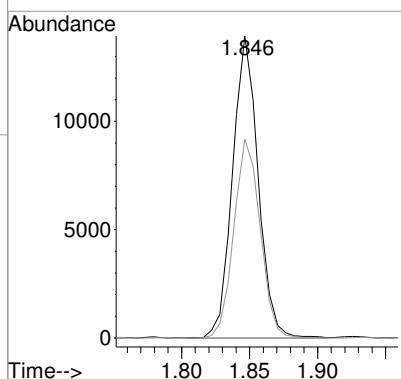
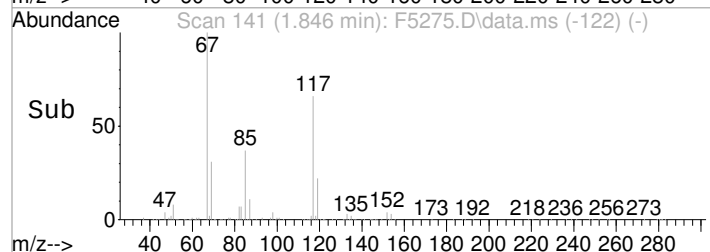
Tgt Ion: 94 Resp: 6703
 Ion Ratio Lower Upper
 94 100
 96 88.4 74.5 114.5

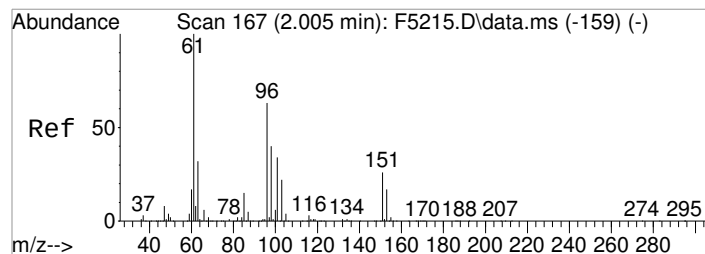


#10
 Freon 123a
 Concen: 6.93 ug/L
 RT: 1.846 min Scan# 141
 Delta R.T. -0.000 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am



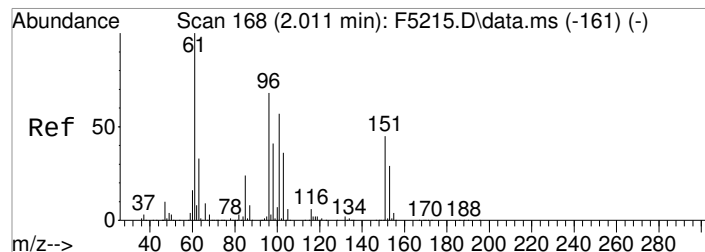
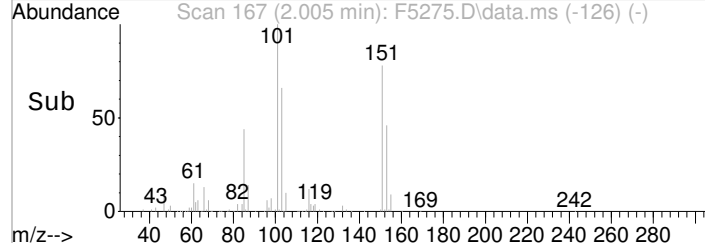
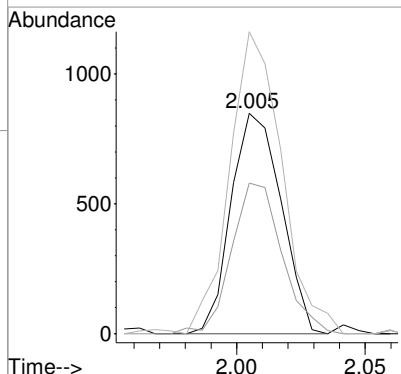
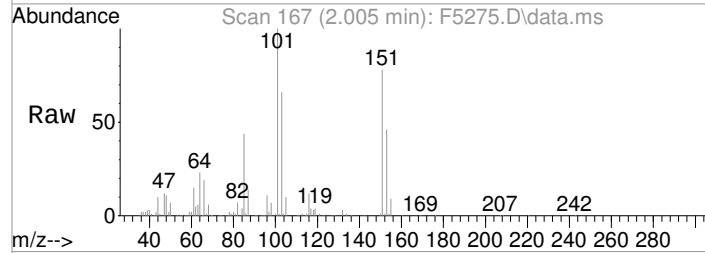
Tgt Ion: 67 Resp: 18297
 Ion Ratio Lower Upper
 67 100
 117 65.9 49.9 89.9





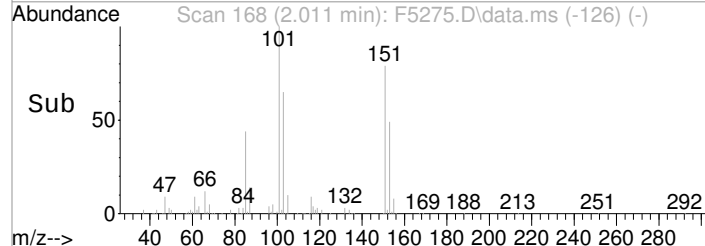
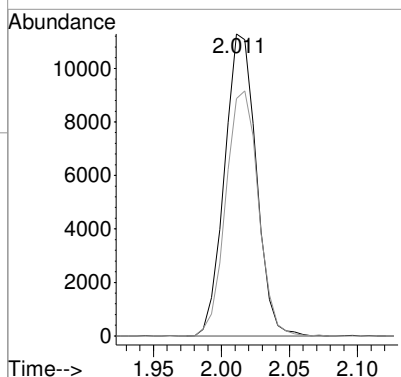
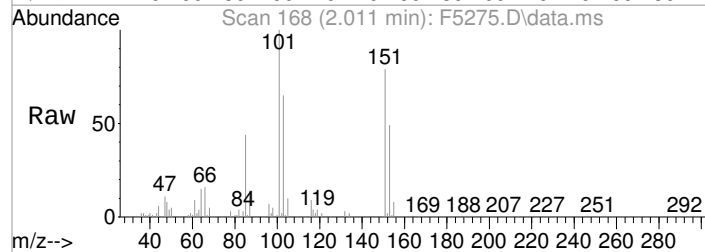
#13
 1,1-Dicloroethene
 Concen: 0.54 ug/L
 RT: 2.005 min Scan# 167
 Delta R.T. -0.000 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

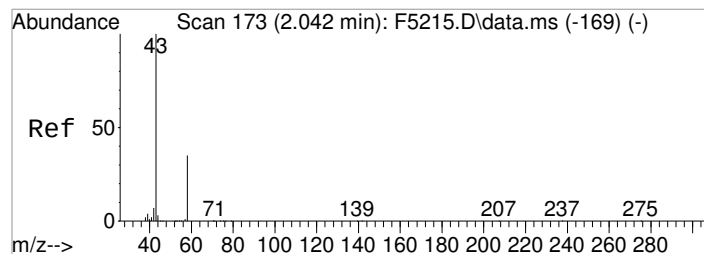
Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
98	68.3	43.1	83.1	
61	137.0	139.3	179.3	



#14
 Freon 113
 Concen: 9.49 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

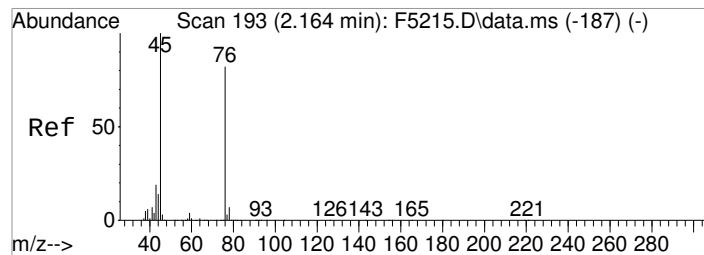
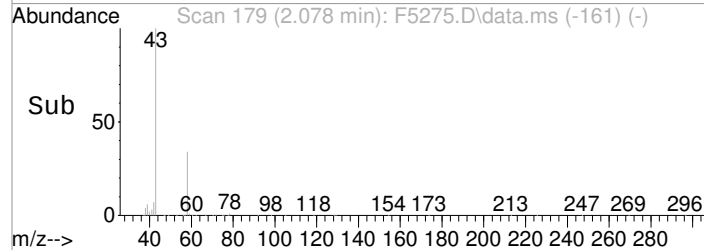
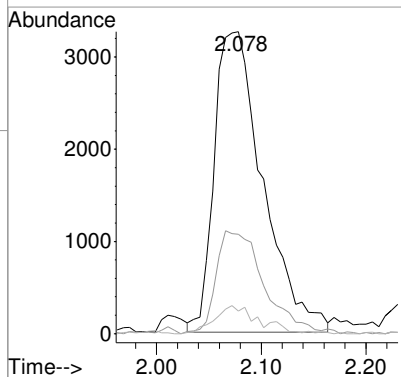
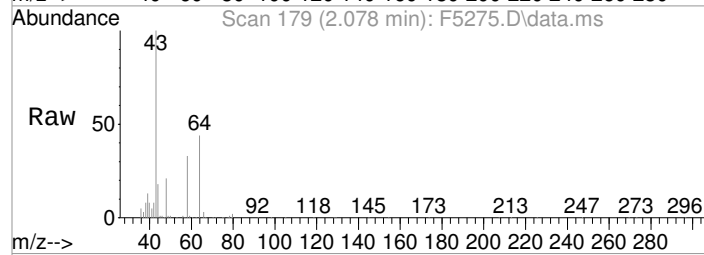
Tgt Ion	Ratio	Resp	Lower	Upper
101	100			
151	78.6	59.4	99.4	





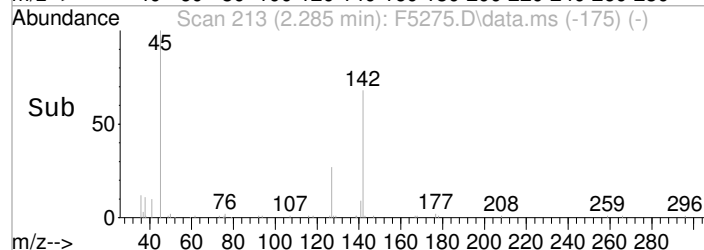
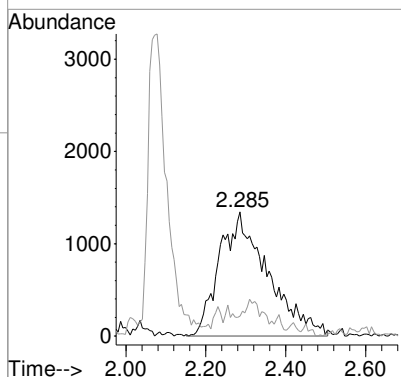
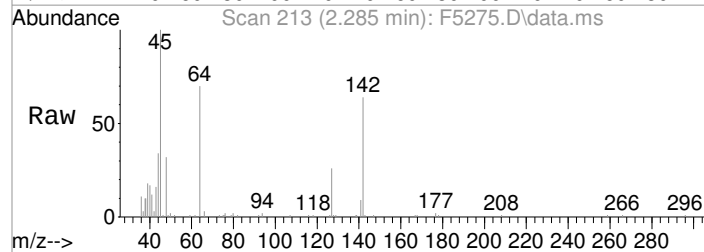
#15
 Acetone
 Concen: 8.45 ug/L m
 RT: 2.078 min Scan# 179
 Delta R.T. 0.037 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

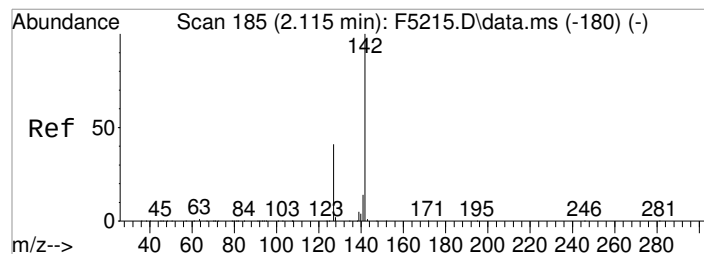
Tgt Ion: 43 Resp: 10520
 Ion Ratio Lower Upper
 43 100
 58 32.9 14.7 54.7
 42 7.5 0.0 27.4



#16
 2-Propanol
 Concen: 40.59 ug/L m
 RT: 2.285 min Scan# 213
 Delta R.T. 0.122 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

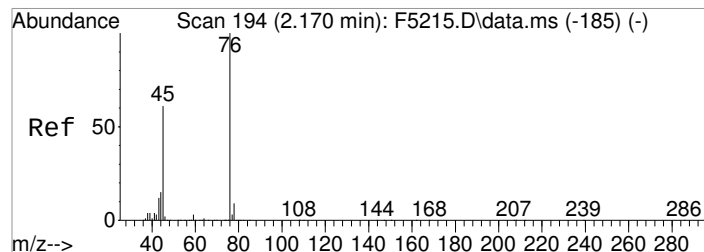
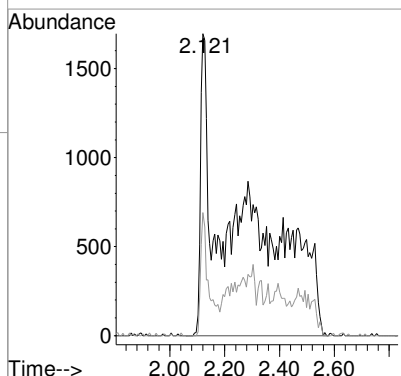
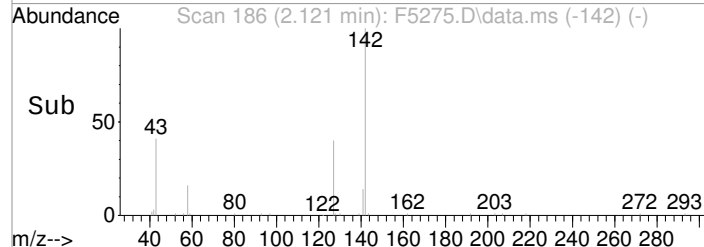
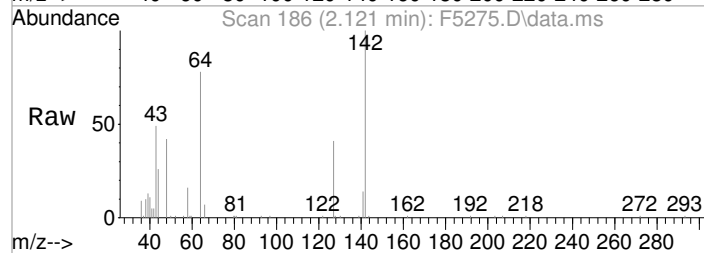
Tgt Ion: 45 Resp: 11242
 Ion Ratio Lower Upper
 45 100
 43 16.0 0.0 38.9





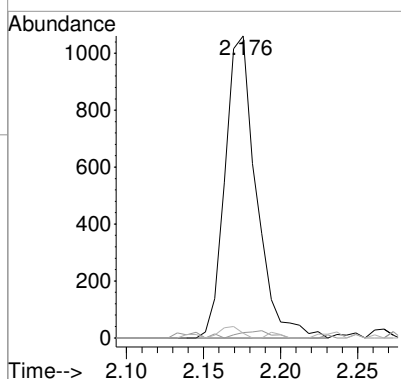
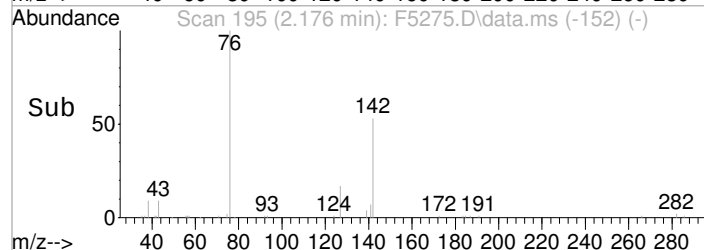
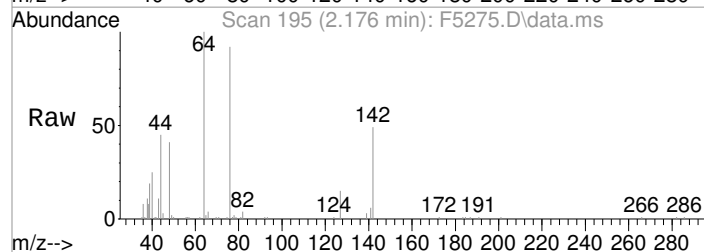
#17
 Iodomethane
 Concen: 6.58 ug/L m
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

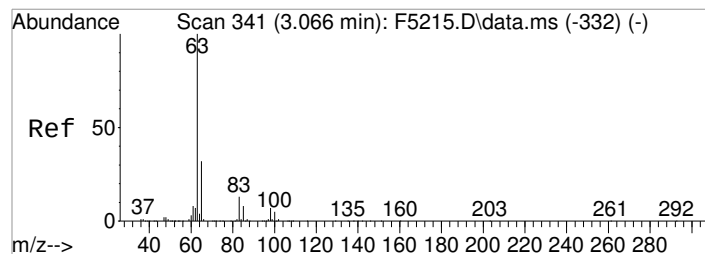
Tgt Ion: 142 Resp: 16099
 Ion Ratio Lower Upper
 142 100
 127 40.7 21.2 61.2



#18
 Carbon Disulfide
 Concen: 0.27 ug/L
 RT: 2.176 min Scan# 195
 Delta R.T. 0.006 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

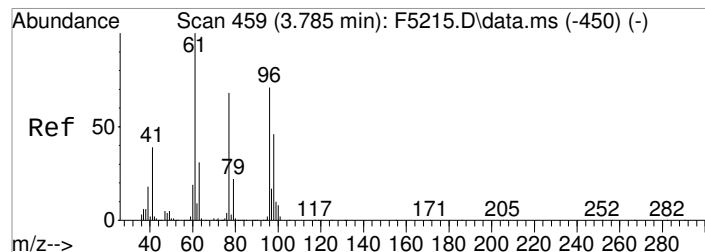
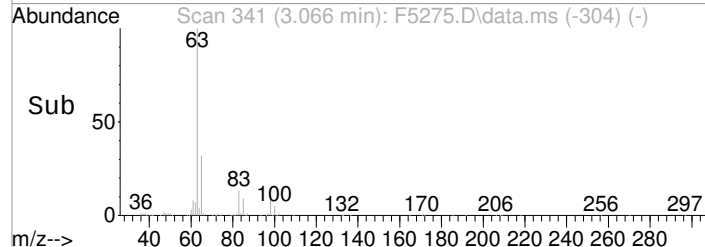
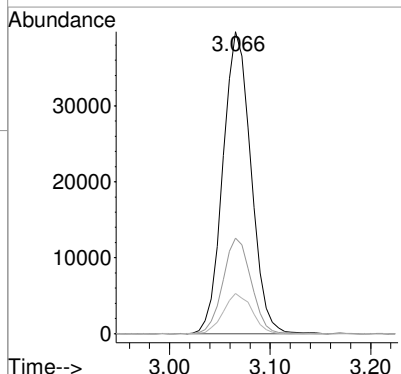
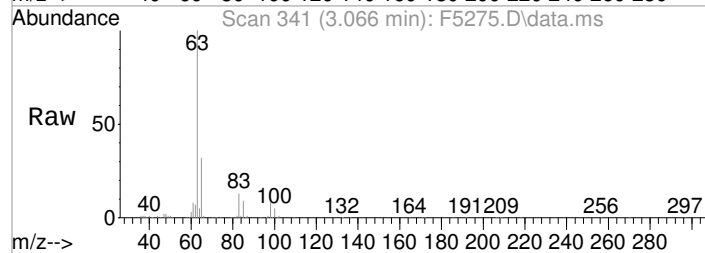
Tgt Ion: 76 Resp: 1493
 Ion Ratio Lower Upper
 76 100
 78 1.8 0.0 29.3
 77 1.5 0.0 22.6





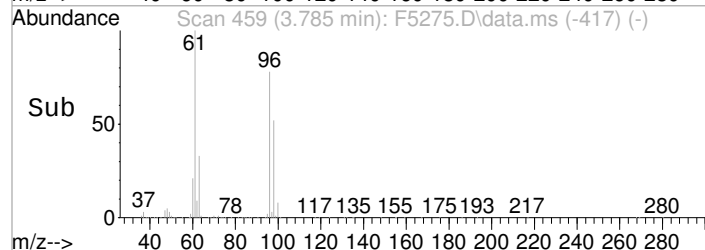
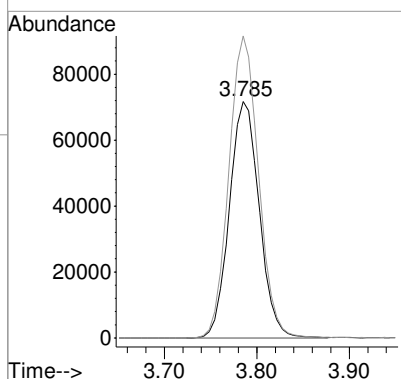
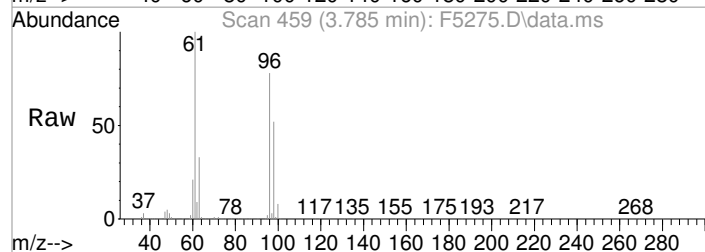
#27
 1,1-Dicloroethane
 Concen: 17.56 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

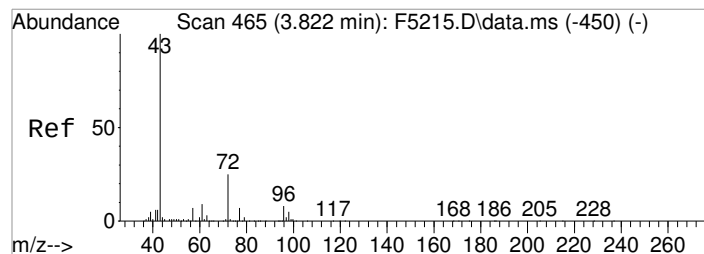
Tgt Ion	Ratio	Resp	Lower	Upper
63	100	76831		
65	31.6	11.9	51.9	
83	13.4	0.0	33.3	



#33
 cis-1,2-Dichloroethene
 Concen: 58.53 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

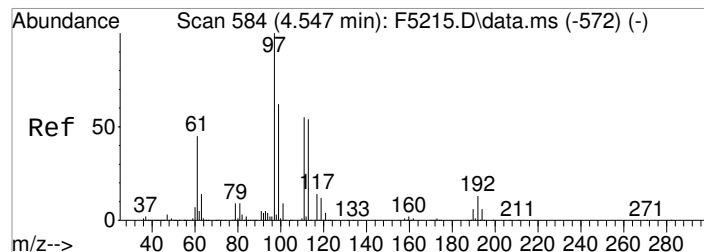
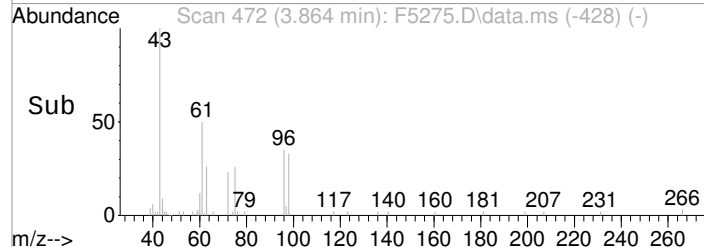
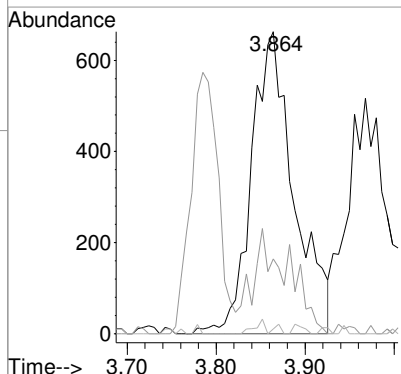
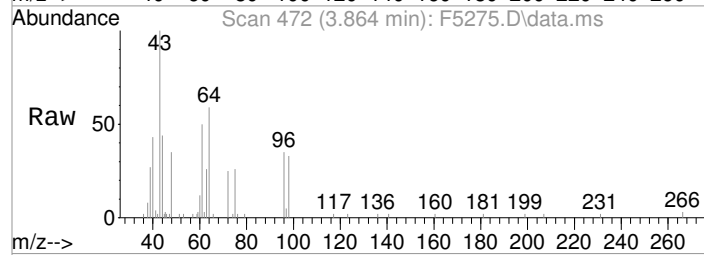
Tgt Ion	Ratio	Resp	Lower	Upper
96	100	160836		
61	127.7	120.6	160.6	





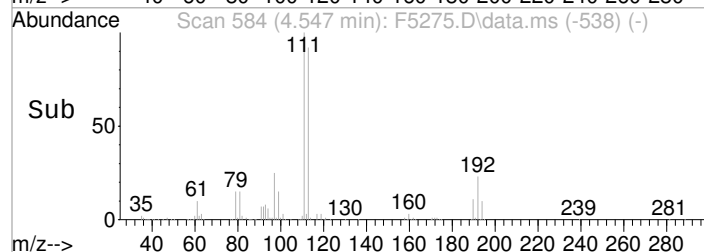
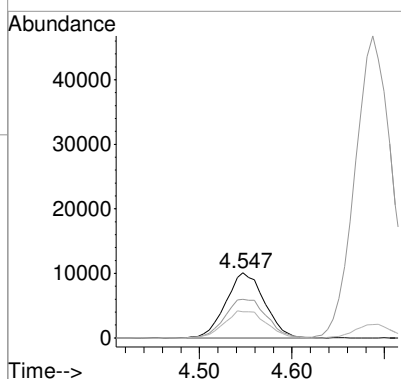
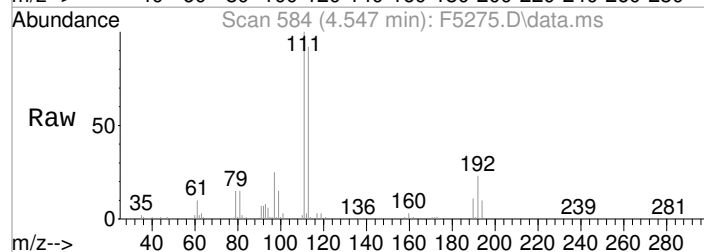
#34
 2-Butanone
 Concen: 1.19 ug/L
 RT: 3.864 min Scan# 472
 Delta R.T. 0.043 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

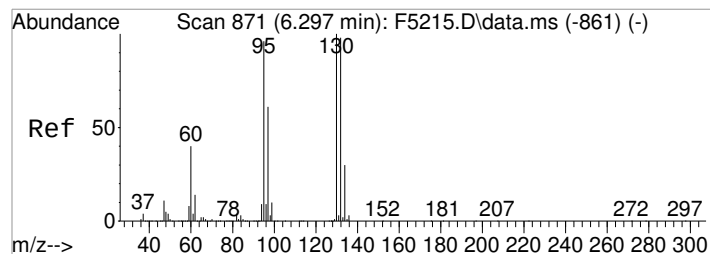
Tgt Ion: 43 Resp: 2198
 Ion Ratio Lower Upper
 43 100
 72 24.7 4.8 44.8
 57 1.5 0.0 27.7



#40
 1,1,1-Trichloroethane
 Concen: 8.65 ug/L
 RT: 4.547 min Scan# 584
 Delta R.T. -0.000 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

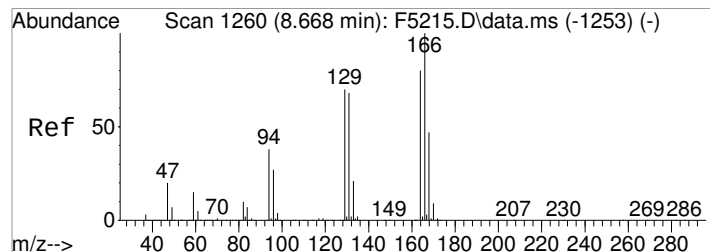
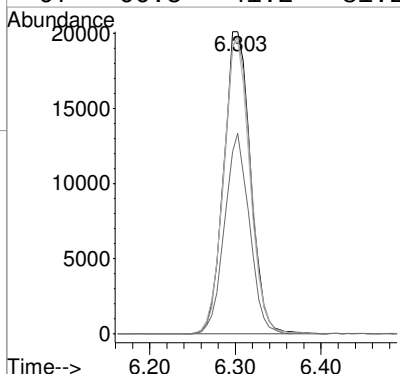
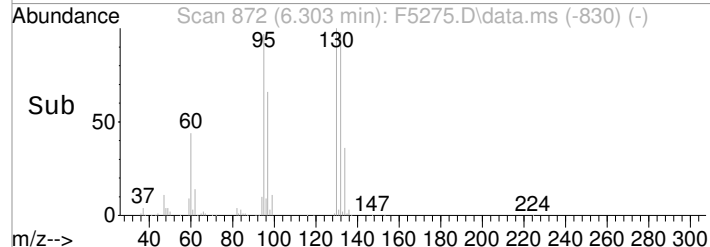
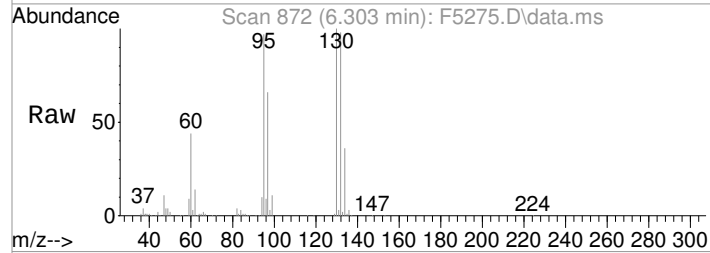
Tgt Ion: 97 Resp: 29277
 Ion Ratio Lower Upper
 97 100
 99 59.1 41.7 81.7
 61 40.1 25.1 65.1





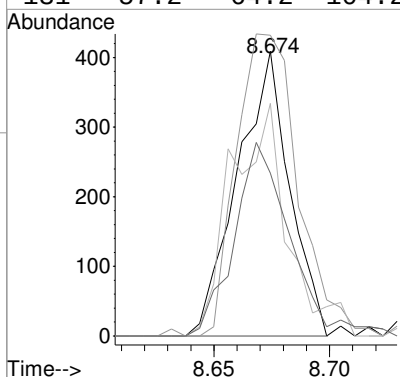
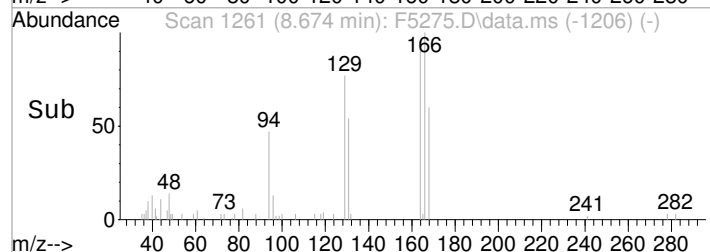
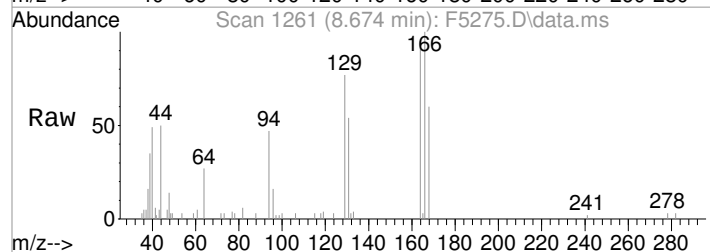
#53
 Trichloroethene
 Concen: 16.06 ug/L
 RT: 6.303 min Scan# 872
 Delta R.T. 0.006 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	43755		
132	98.3	78.0	118.0	
95	96.9	76.2	116.2	
97	66.5	41.2	81.2	



#71
 Tetrachloroethene
 Concen: 0.30 ug/L
 RT: 8.674 min Scan# 1261
 Delta R.T. 0.006 min
 Lab File: F5275.D
 Acq: 28 Mar 2019 4:52 am

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	639		
166	105.6	104.6	144.6	
129	81.7	66.7	106.7	
131	57.2	64.2	104.2#	



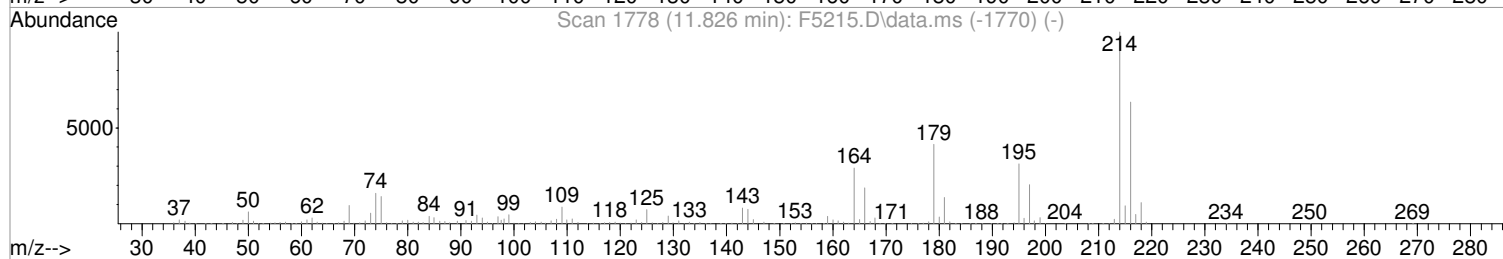
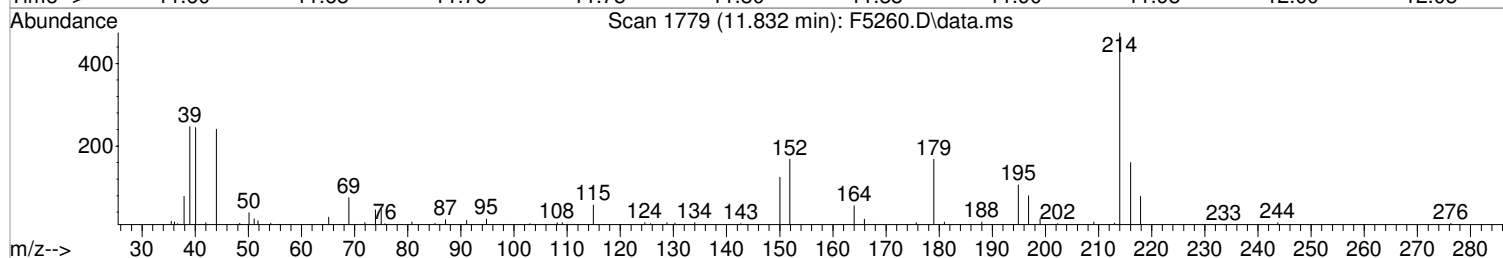
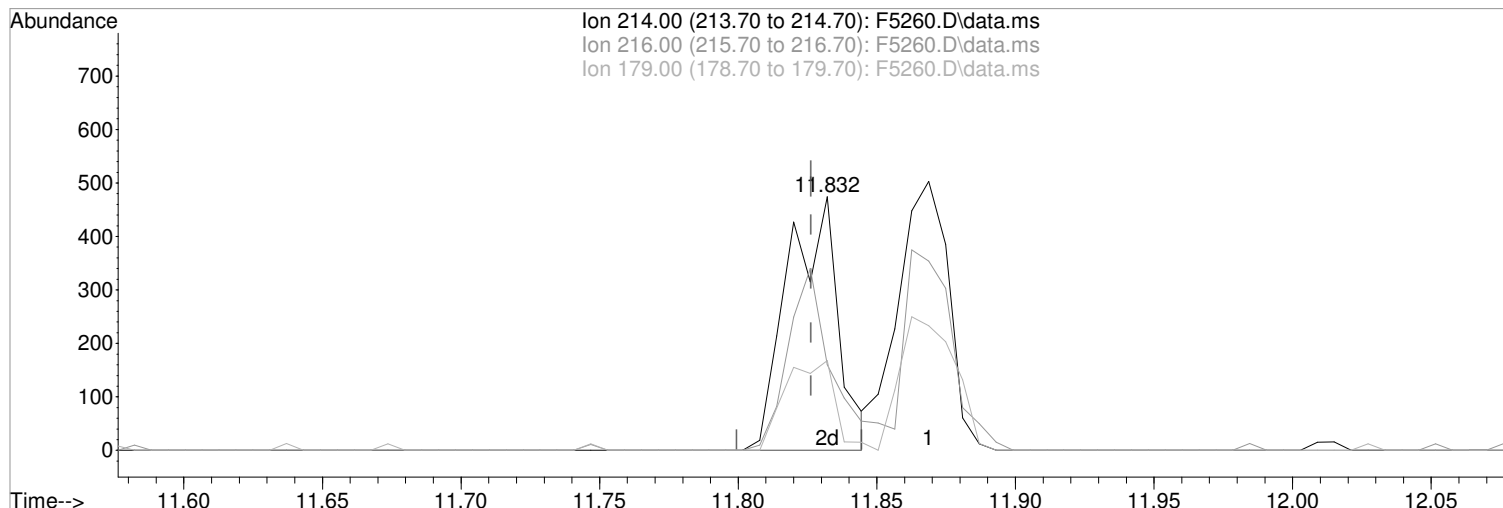
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5260.D
Acq On : 27 Mar 2019 11:32 pm
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 34 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:02:58 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5260.D\data.ms

(106) 2,4-Dichlorobenzotrifluoride

11.832min (+0.006) 0.25 ug/L m

response 600

Ion Exp% Act%

214.00 100 100

216.00 63.40 33.76#

179.00 41.40 35.44

0.00 0.00 0.00

Manual Integration:

After

Wrong peak selected.

03/31/19

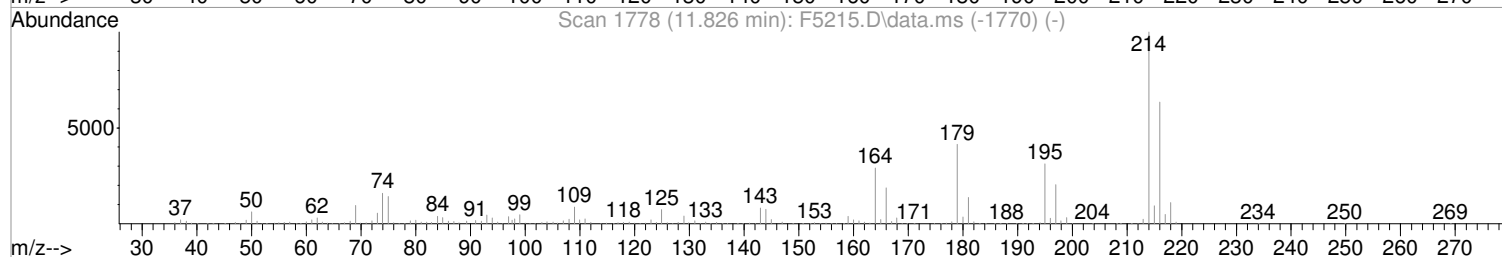
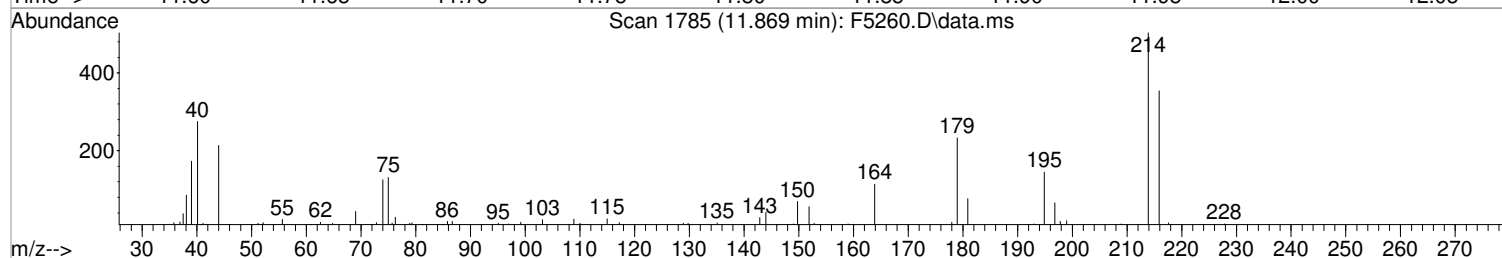
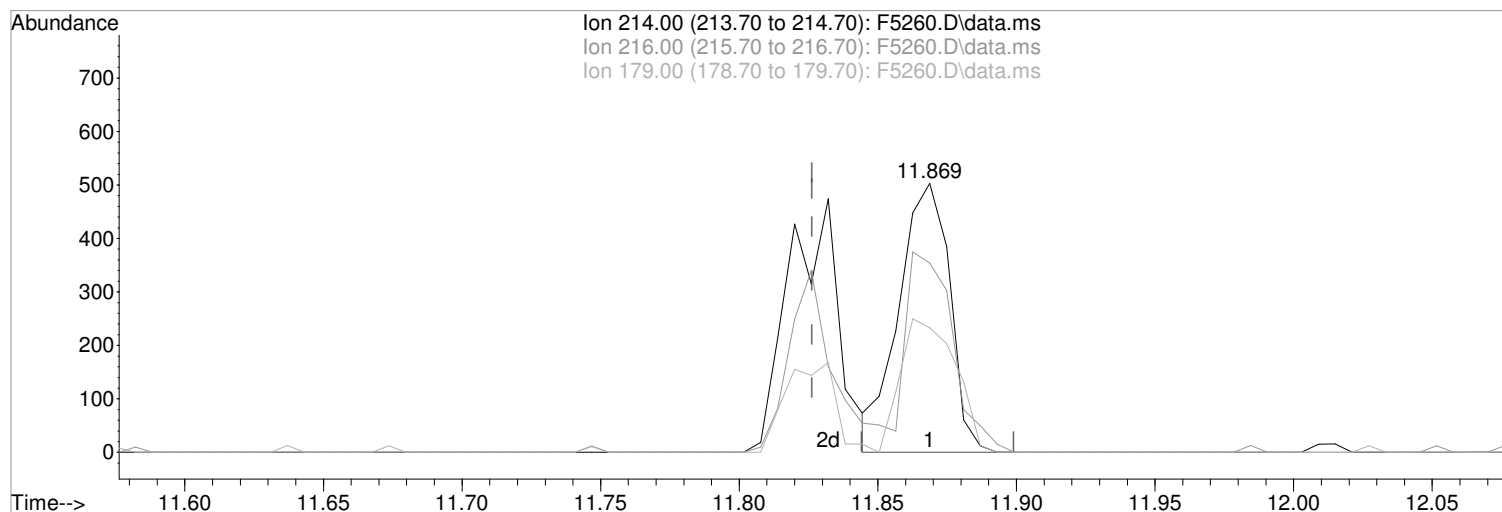
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5260.D
Acq On : 27 Mar 2019 11:32 pm
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 34 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:02:58 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5260.D\data.ms

(106) 2,4-Dichlorobenzotrifluoride

Manual Integration:

11.869min (+0.042) 0.27 ug/L

Before

response 637

Ion	Exp%	Act%

03/31/19

214.00	100	100
216.00	63.40	70.38
179.00	41.40	46.32
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5260.D
 Acq On : 27 Mar 2019 11:32 pm
 Operator : F.NAEGLER
 Sample : MBLK
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:10:00 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

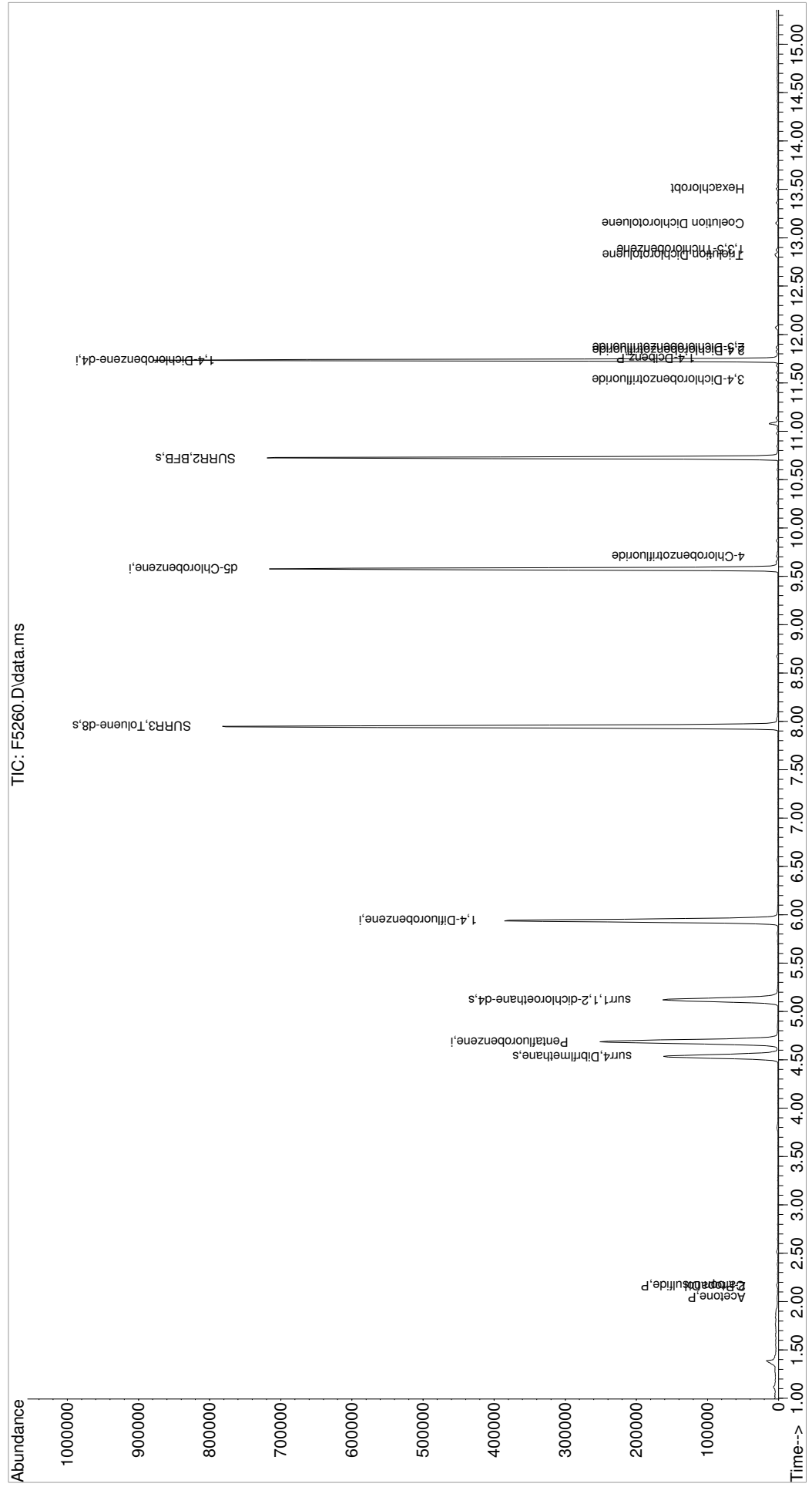
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	264083	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	391482	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	342406	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	176156	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	134400	51.52	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	103.04%		
47) surr1,1,2-dichloroetha...	5.120	65	156429	51.17	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	102.34%		
64) SURR3,Toluene-d8	7.949	98	525262	50.44	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	100.88%		
69) SURR2,BFB	10.723	95	190866	47.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	94.66%		
Target Compounds						
5) Bromomethane	1.413	94	292	Below Cal	#	72
15) Acetone	2.047	43	563	0.44	ug/L	100
16) 2-Propanol	2.163	45	167	0.58	ug/L	98
18) Carbon Disulfide	2.169	76	1390	0.24	ug/L	94
79) 4-Chlorobenzotrifluoride	9.711	180	647	0.20	ug/L	90
101) 3,4-Dichlorobenzotrifl...	11.527	214	849	0.32	ug/L #	69
105) 1,4-Dclbenz	11.753	146	1206	0.21	ug/L #	80
106) 2,4-Dichlorobenzotrifl...	11.832	214	600m	0.25	ug/L	
107) 2,5-Dichlorobenzotrifl...	11.869	214	637	0.23	ug/L	91
111) Trielution Dichlorotol...	12.826	125	2269	0.56	ug/L	94
112) 1,3,5-Trichlorobenzene	12.881	180	794	0.22	ug/L	92
113) Coelution Dichlorotoluene	13.149	125	1133	0.26	ug/L	83
115) Hexachlorobt	13.509	225	459	0.28	ug/L #	77

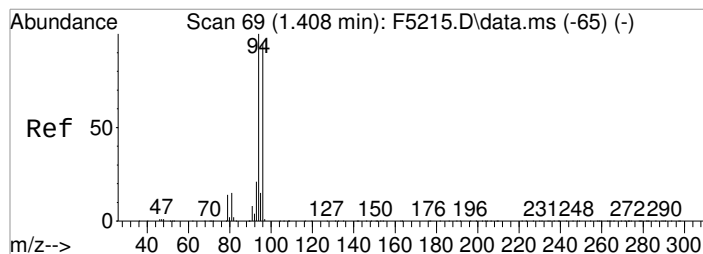
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSV0A14\Data\032719\
Data File : F5260.D
Acq On : 27 Mar 2019 11:32 pm
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 34 Sample Multiplier: 1

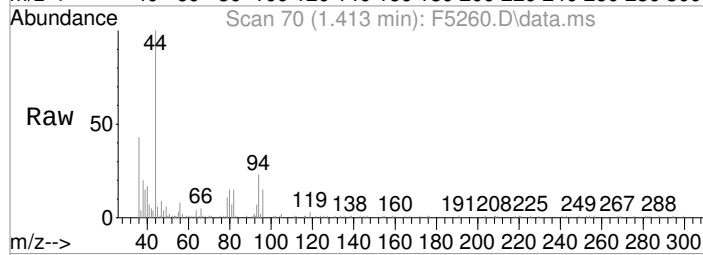
Inst : MSV0A14

Quant Time: Mar 31 12:10:00 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

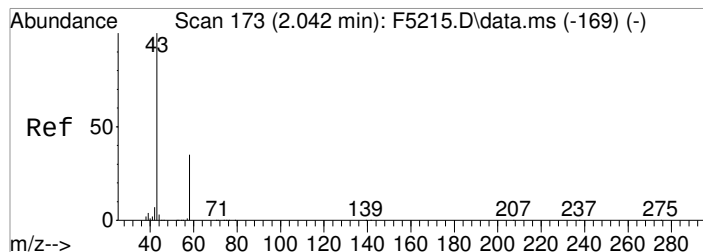
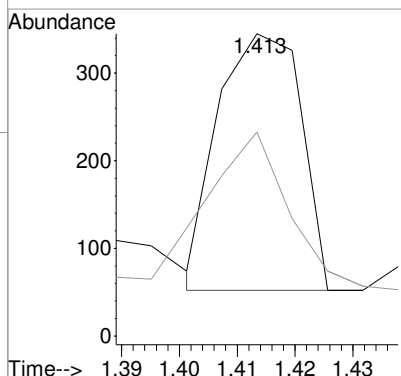
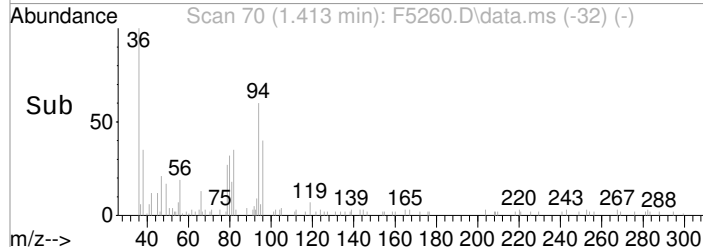




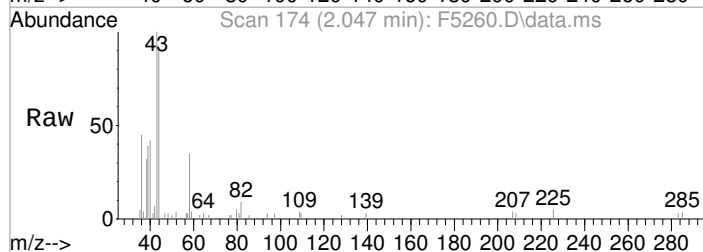
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.413 min Scan# 70
 Delta R.T. 0.006 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm



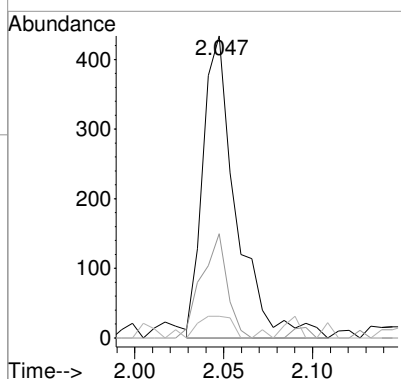
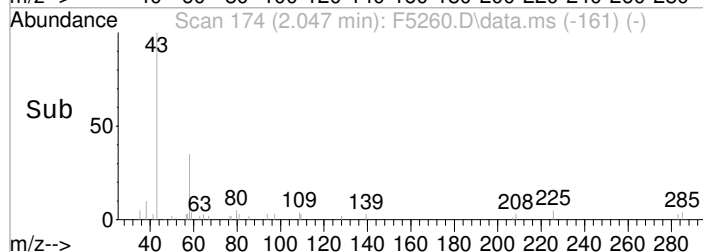
Tgt Ion: 94 Resp: 292
 Ion Ratio Lower Upper
 94 100
 96 67.5 74.5 114.5#

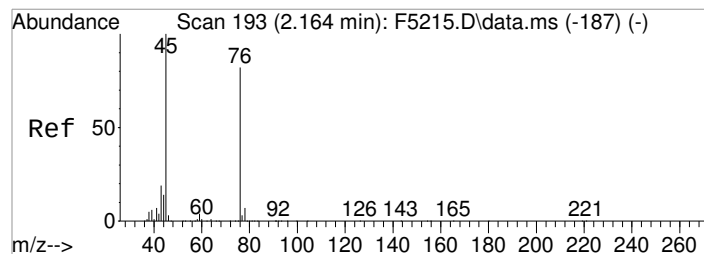


#15
 Acetone
 Concen: 0.44 ug/L
 RT: 2.047 min Scan# 174
 Delta R.T. 0.006 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm



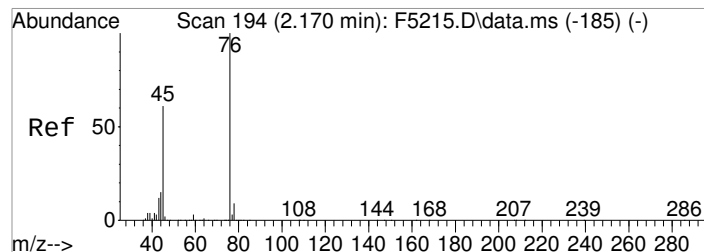
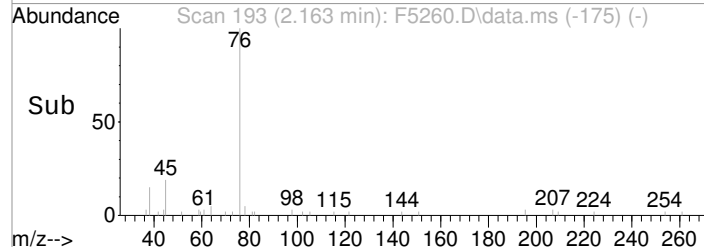
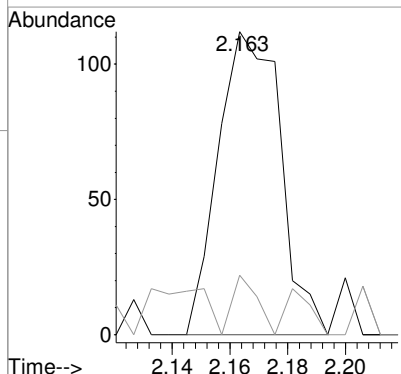
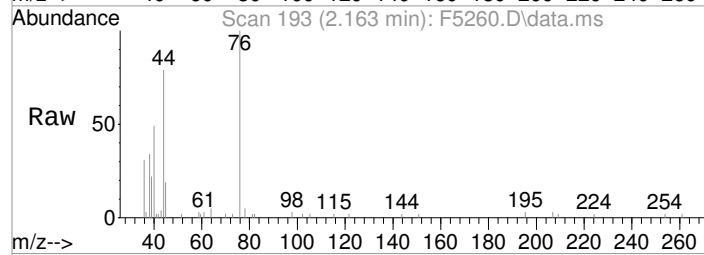
Tgt Ion: 43 Resp: 563
 Ion Ratio Lower Upper
 43 100
 58 34.6 14.7 54.7
 42 7.1 0.0 27.4





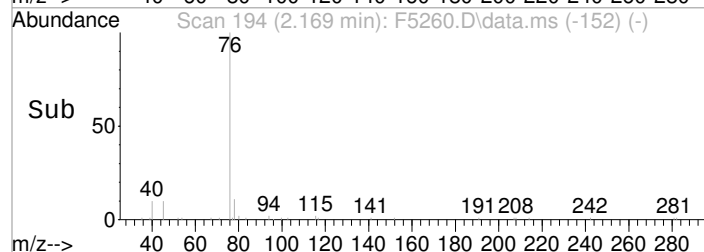
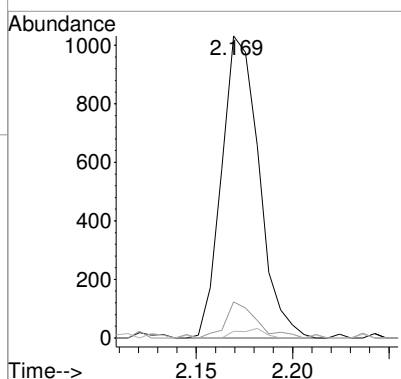
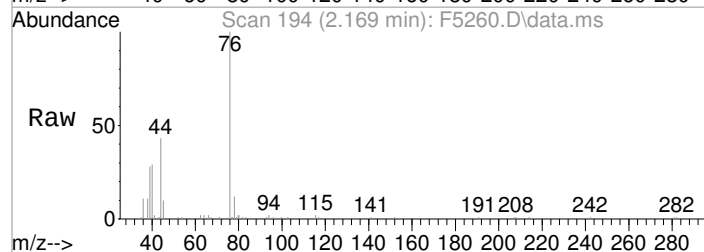
#16
 2-Propanol
 Concen: 0.58 ug/L
 RT: 2.163 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

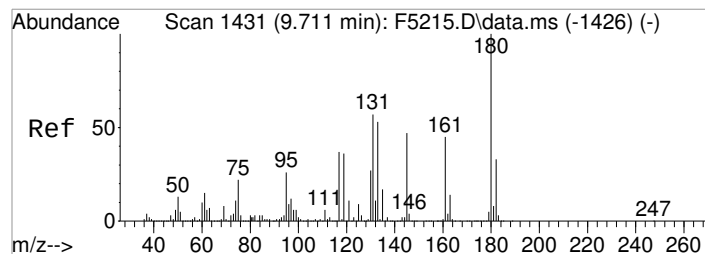
Tgt Ion: 45 Resp: 167
 Ion Ratio Lower Upper
 45 100
 43 19.6 0.0 38.9



#18
 Carbon Disulfide
 Concen: 0.24 ug/L
 RT: 2.169 min Scan# 194
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

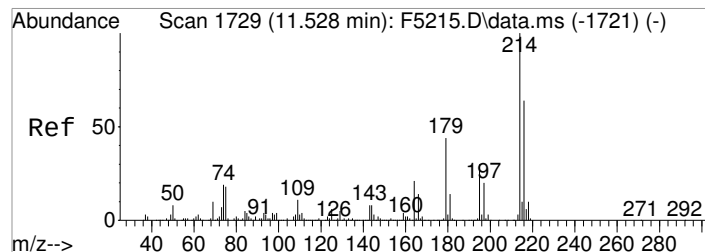
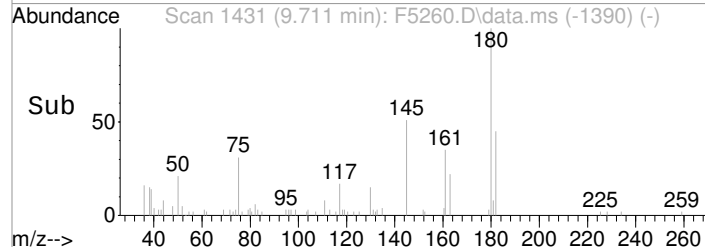
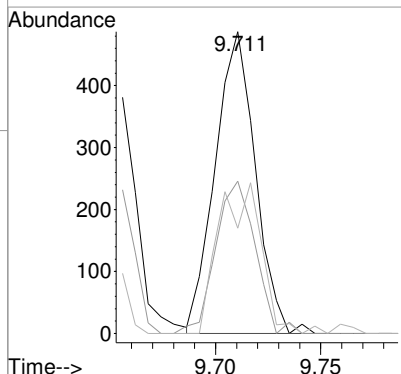
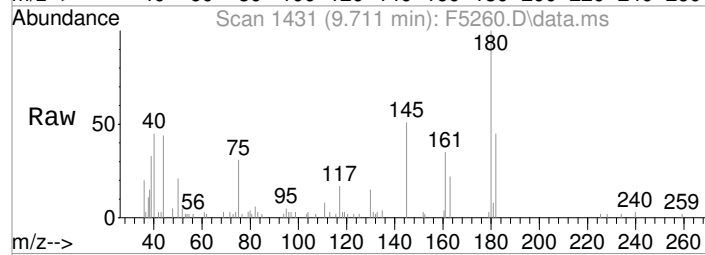
Tgt Ion: 76 Resp: 1390
 Ion Ratio Lower Upper
 76 100
 78 11.9 0.0 29.3
 77 2.2 0.0 22.6





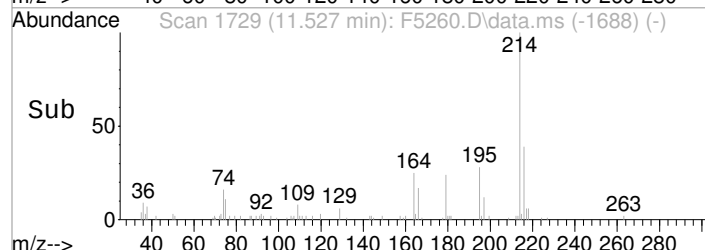
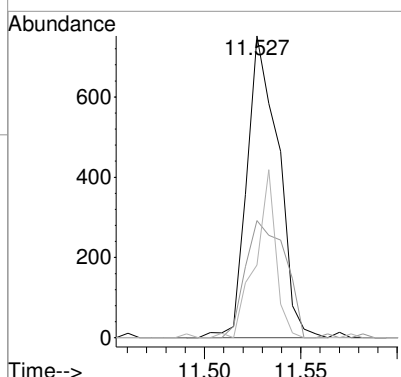
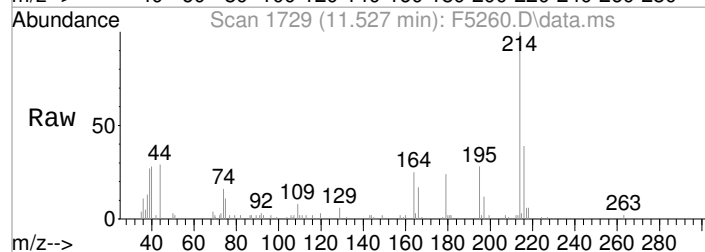
#79
 4-Chlorobenzotrifluoride
 Concen: 0.20 ug/L
 RT: 9.711 min Scan# 1431
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

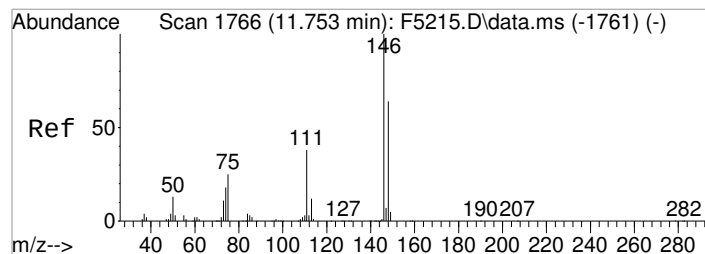
Tgt Ion:180	Resp:	647
Ion Ratio	Lower	Upper
180 100		
145 50.5	27.0	67.0
161 34.9	24.5	64.5



#101
 3,4-Dichlorobenzotrifluoride
 Concen: 0.32 ug/L
 RT: 11.527 min Scan# 1729
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

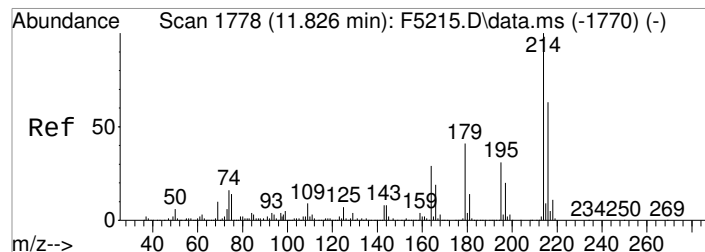
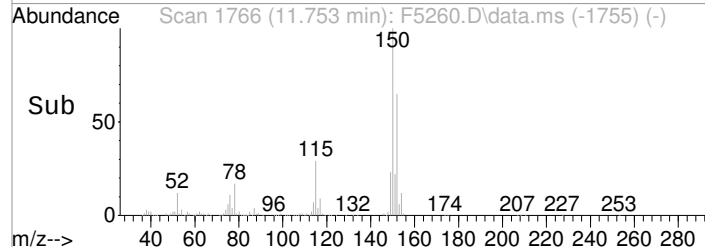
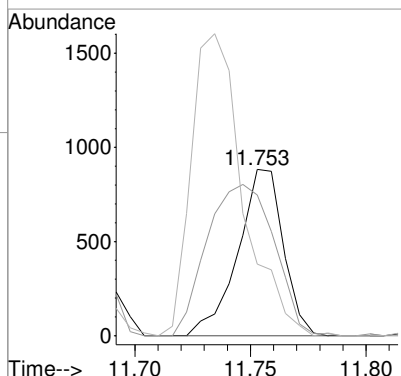
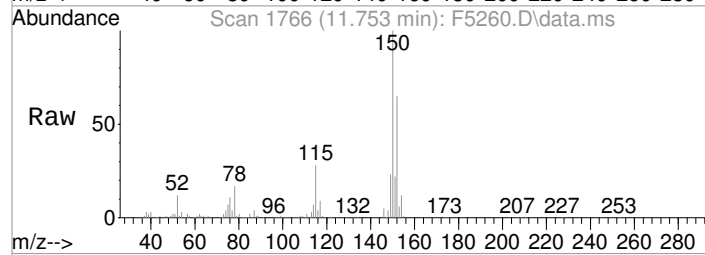
Tgt Ion:214	Resp:	849
Ion Ratio	Lower	Upper
214 100		
216 38.8	43.7	83.7#
179 24.1	23.8	63.8





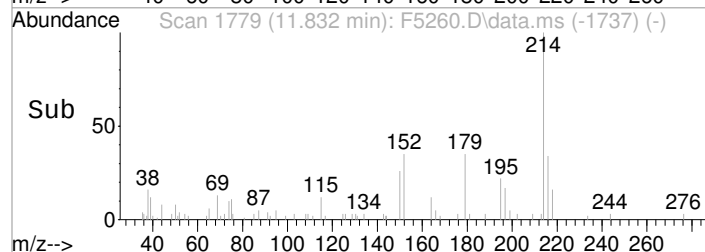
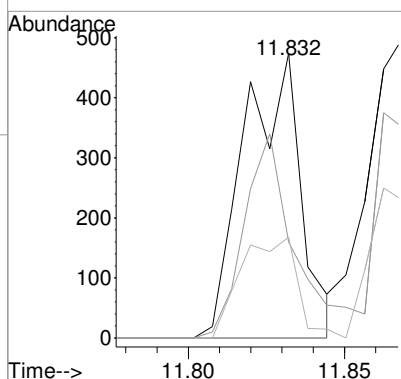
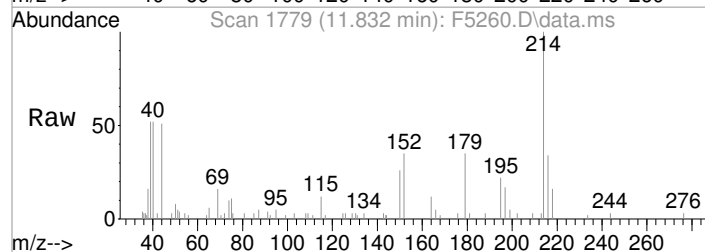
#105
 1,4-Dichlorobenz
 Concen: 0.21 ug/L
 RT: 11.753 min Scan# 1766
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

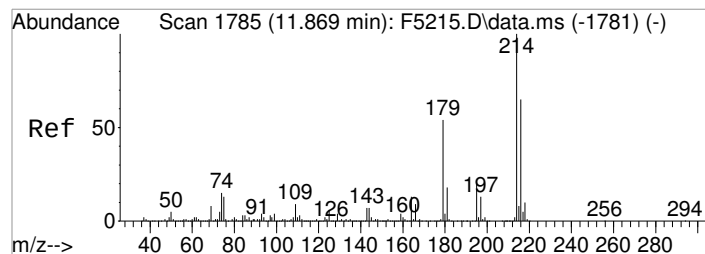
Tgt Ion:	146	Resp:	1206
Ion Ratio		Lower	Upper
146	100		
148	84.7	44.2	84.2#
111	43.0	17.8	57.8



#106
 2,4-Dichlorobenzotrifluoride
 Concen: 0.25 ug/L m
 RT: 11.832 min Scan# 1779
 Delta R.T. 0.006 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

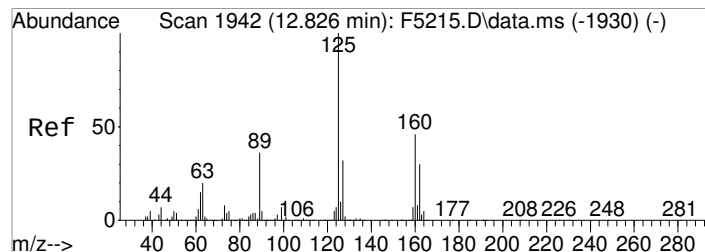
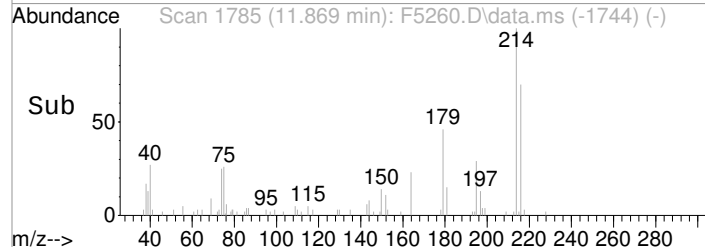
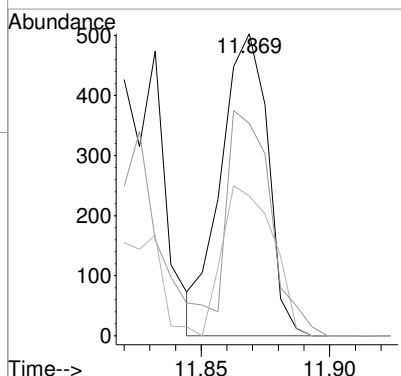
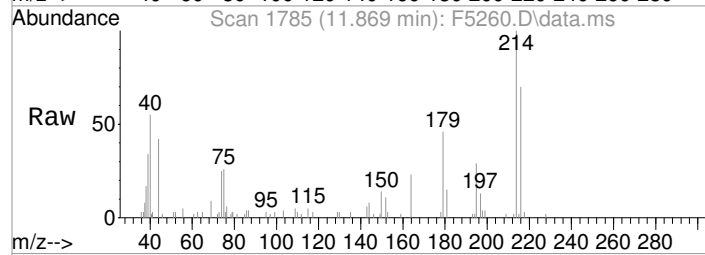
Tgt Ion:	214	Resp:	600
Ion Ratio		Lower	Upper
214	100		
216	33.8	43.4	83.4#
179	35.4	21.4	61.4





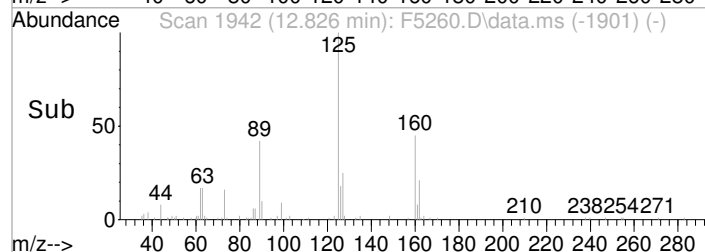
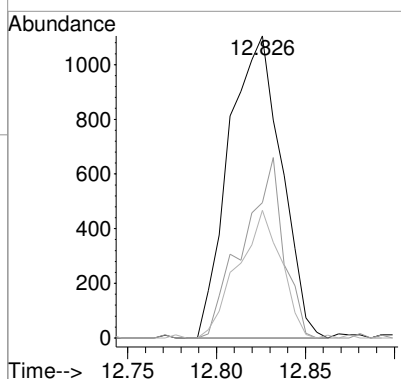
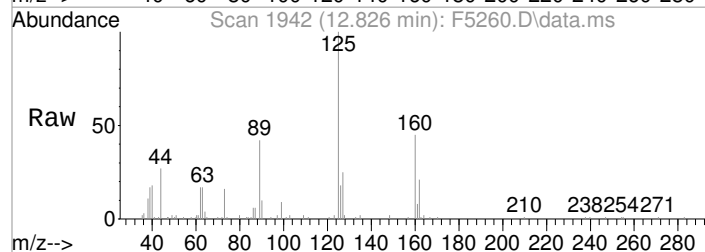
#107
 2,5-Dichlorobenzotrifluoride
 Concen: 0.23 ug/L
 RT: 11.869 min Scan# 1785
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

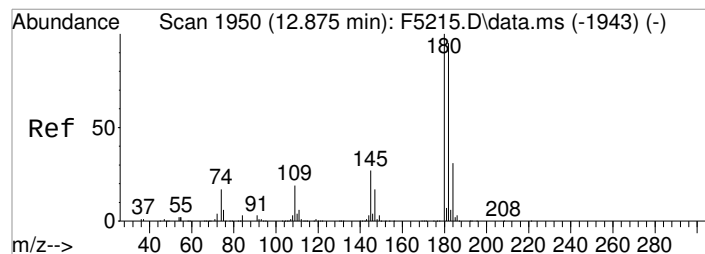
Tgt Ion:	214	Resp:	637
Ion Ratio		Lower	Upper
214	100		
216	70.4	44.7	84.7
179	46.3	34.5	74.5



#111
 Trilution Dichlorotoluene
 Concen: 0.56 ug/L
 RT: 12.826 min Scan# 1942
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

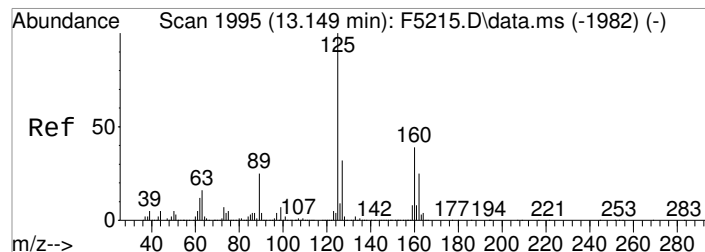
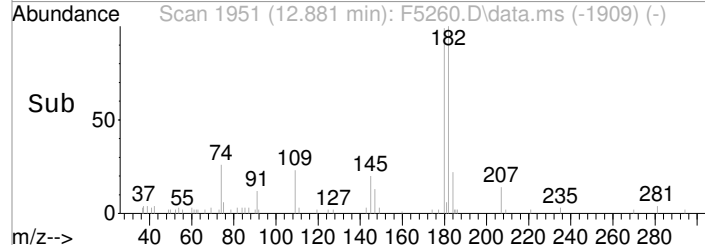
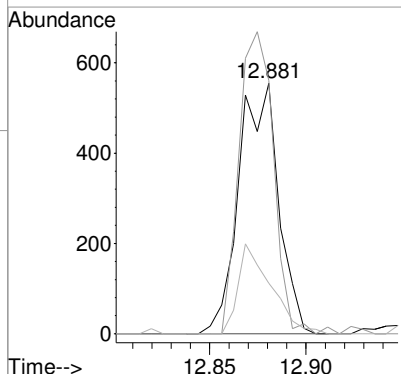
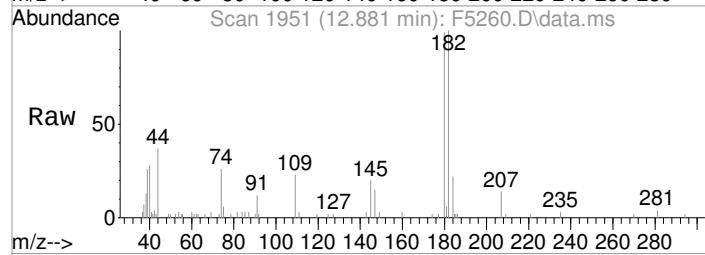
Tgt Ion:	125	Resp:	2269
Ion Ratio		Lower	Upper
125	100		
160	44.8	26.1	66.1
89	42.3	16.2	56.2





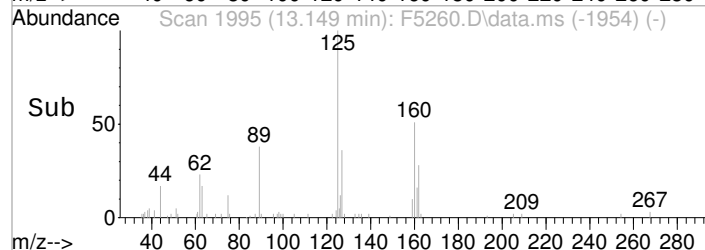
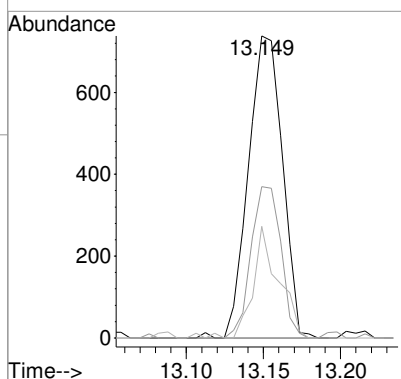
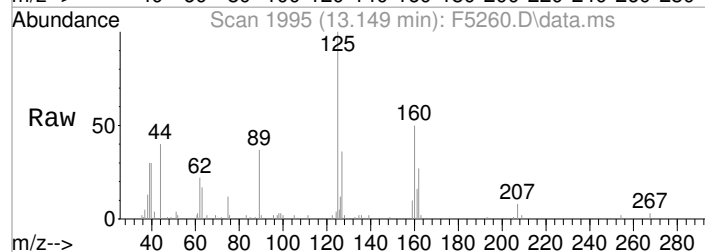
#112
 1,3,5-Trichlorobenzene
 Concen: 0.22 ug/L
 RT: 12.881 min Scan# 1951
 Delta R.T. 0.006 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

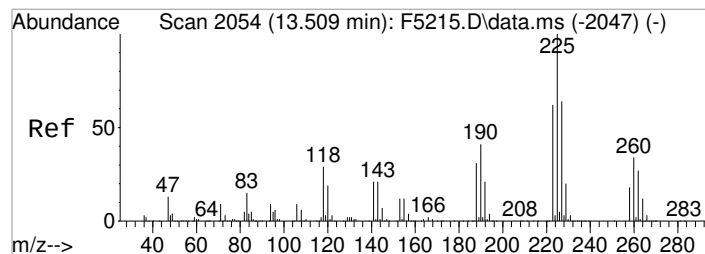
Tgt Ion:	180	Resp:	794
Ion Ratio		Lower	Upper
180	100		
182	101.1	74.9	114.9
145	20.2	6.9	46.9



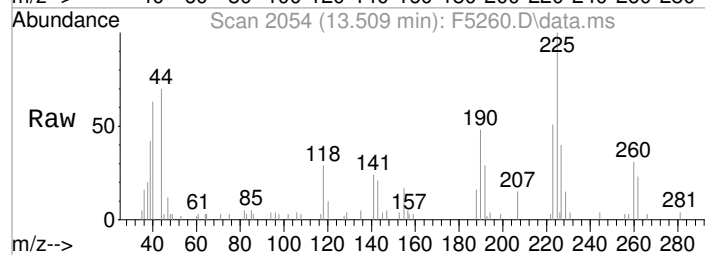
#113
 Coelution Dichlorotoluene
 Concen: 0.26 ug/L
 RT: 13.149 min Scan# 1995
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm

Tgt Ion:	125	Resp:	1133
Ion Ratio		Lower	Upper
125	100		
160	47.7	19.0	59.0
89	35.2	5.0	45.0

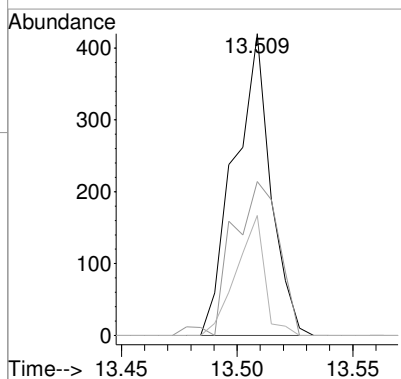
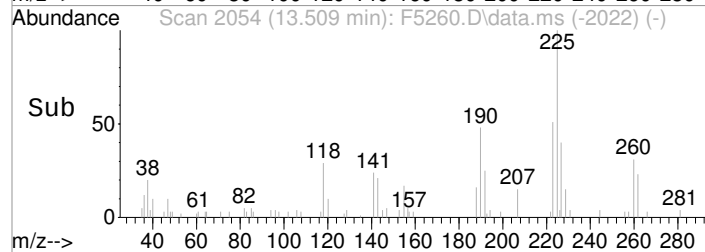




#115
 Hexachlorobt
 Concen: 0.28 ug/L
 RT: 13.509 min Scan# 2054
 Delta R.T. -0.000 min
 Lab File: F5260.D
 Acq: 27 Mar 2019 11:32 pm



Tgt Ion:	225	Resp:	459
Ion Ratio		Lower	Upper
225	100		
223	51.0	41.9	81.9
227	39.8	43.8	83.8#



Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5292.D
 Acq On : 28 Mar 2019 1:00 pm
 Operator : F.NAEGLER
 Sample : MBLK
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:59:46 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

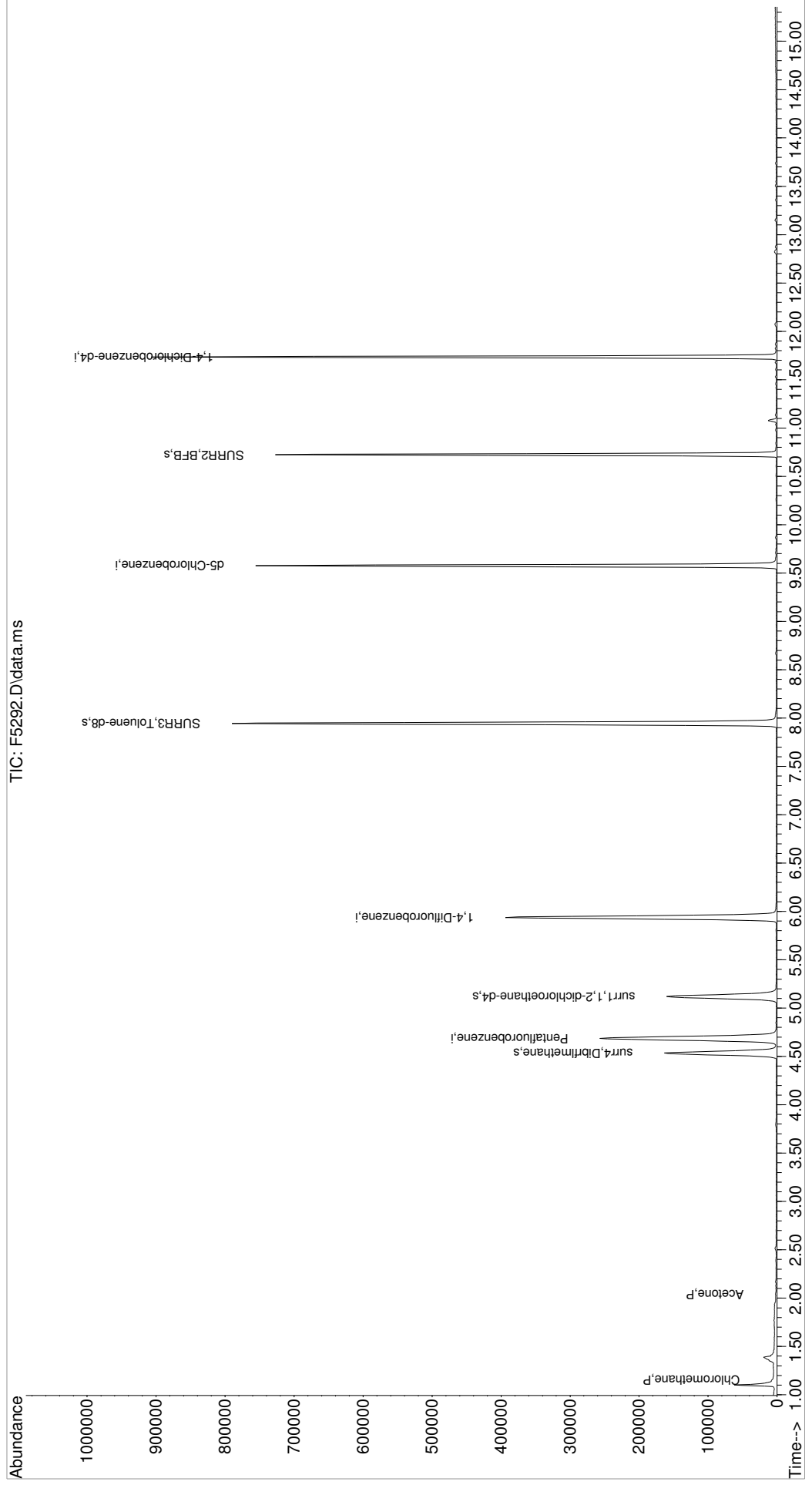
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

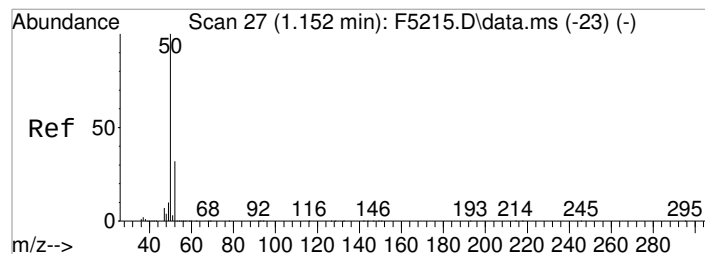
Internal Standards						
1) Pentafluorobenzene	4.687	168	264571	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	393060	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	348461	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	175028	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	133347	50.91	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	101.82%		
47) surr1,1,2-dichloroetha...	5.120	65	157316	51.25	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	102.50%		
64) SURR3,Toluene-d8	7.943	98	519740	49.71	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	99.42%		
69) SURR2,BFB	10.723	95	187960	46.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	92.86%		
Target Compounds						Qvalue
3) Chloromethane	1.152	50	1038	0.30	ug/L	80
15) Acetone	2.042	43	582	0.45	ug/L	95

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

Data Path : I:\ACQUDATA\MSV0A14\Data\032819\
 Data File : F5292.D
 Acq On : 28 Mar 2019 1:00 pm
 Operator : F.NAEGLER
 Sample : MBLK
 Misc :
 ALS Vial : 4 Sample Multiplier: 1
 Inst : MSV0A14

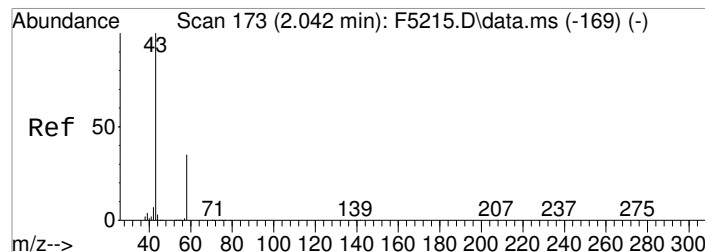
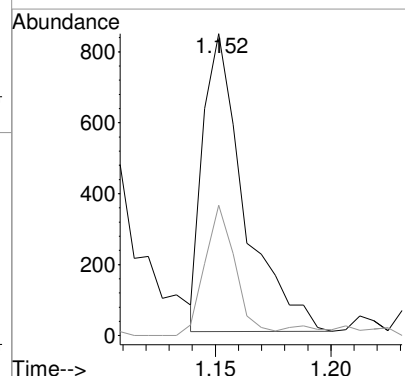
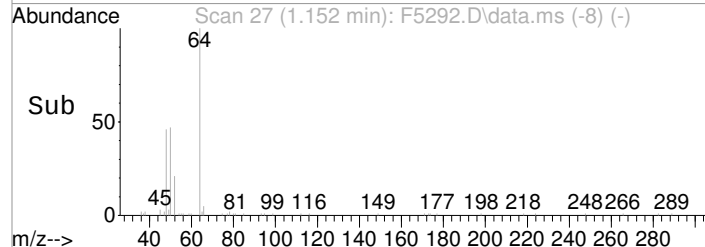
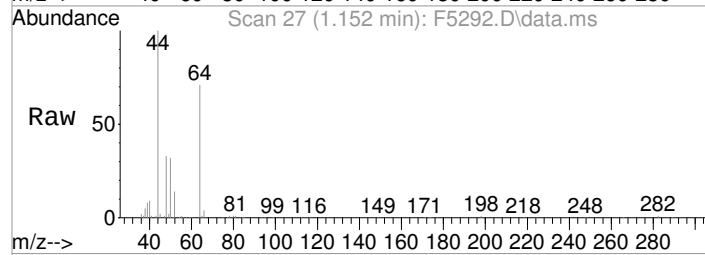
Quant Time: Apr 01 16:59:46 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 Qlast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration





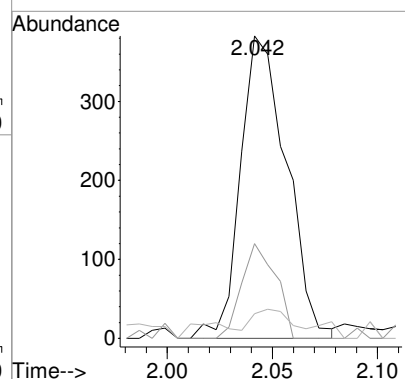
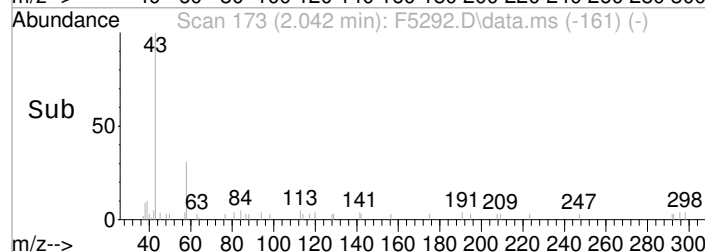
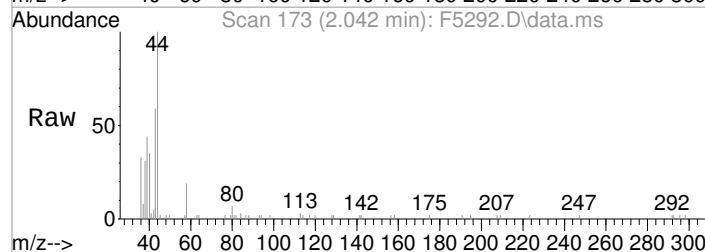
#3
 Chloromethane
 Concen: 0.30 ug/L
 RT: 1.152 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: F5292.D
 Acq: 28 Mar 2019 1:00 pm

Tgt Ion: 50 Resp: 1038
 Ion Ratio Lower Upper
 50 100
 52 43.1 11.9 51.9



#15
 Acetone
 Concen: 0.45 ug/L
 RT: 2.042 min Scan# 173
 Delta R.T. 0.001 min
 Lab File: F5292.D
 Acq: 28 Mar 2019 1:00 pm

Tgt Ion: 43 Resp: 582
 Ion Ratio Lower Upper
 43 100
 58 31.3 14.7 54.7
 42 8.1 0.0 27.4



Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5292.D
Acq On : 28 Mar 2019 1:00 pm
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Integration Parameters: CPD4.P

Integrator: RTE
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Title : MS#14 - 8260 WATERS 5mL Purge

Signal : TIC: F5292.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.103	15	19	26	rBV	57515	76321	5.69%	1.094%
2	1.389	56	66	74	rVB5	14819	38307	2.86%	0.549%
3	4.535	571	582	595	rBV	162528	436907	32.56%	6.264%
4	4.687	595	607	623	rVB	255608	719750	53.64%	10.319%
5	5.120	665	678	692	rBV	159027	444040	33.10%	6.366%
6	5.937	802	812	827	rBV	392802	883710	65.87%	12.670%
7	7.943	1134	1141	1158	rBV	789182	1341696	100.00%	19.236%
8	9.577	1402	1409	1419	rBV	755080	1046715	78.01%	15.007%
9	10.723	1592	1597	1606	rBV	725998	913211	68.06%	13.093%
10	11.076	1650	1655	1661	rVB2	11870	15957	1.19%	0.229%
11	11.735	1758	1763	1771	rBV	905900	1058267	78.88%	15.173%

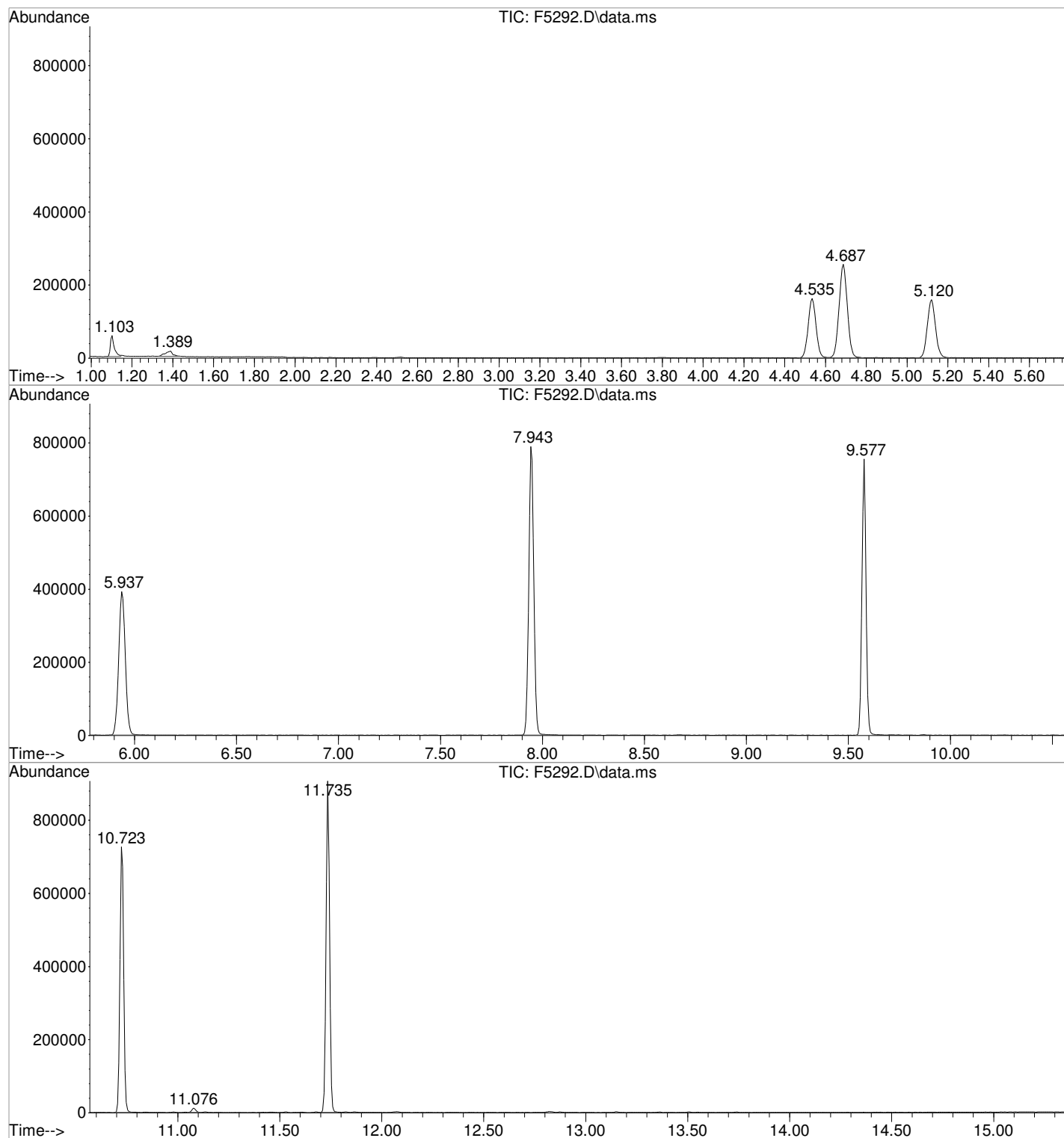
Sum of corrected areas: 6974881

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5292.D
Acq On : 28 Mar 2019 1:00 pm
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

1st *FJ* 04/01/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5292.D
Acq On : 28 Mar 2019 1:00 pm
Operator : F.NAEGLER
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

1st *FJ* 04/01/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5292.D
Acq On : 28 Mar 2019 1:00 pm
Operator : F.NAEGLER
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

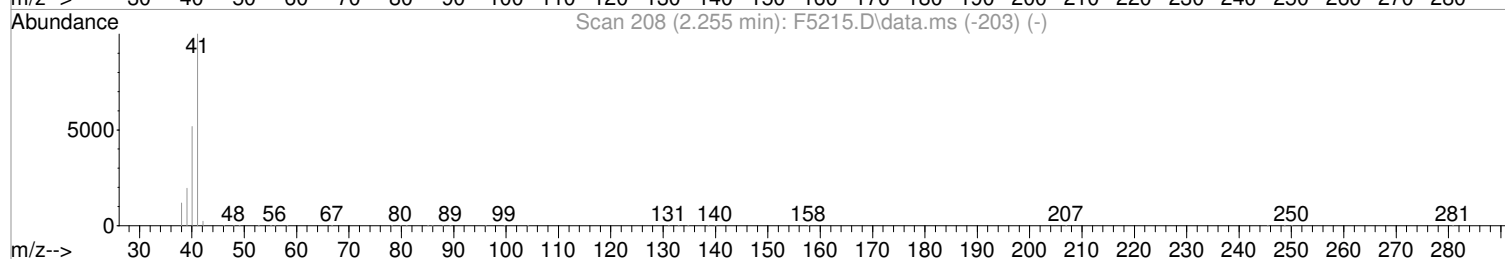
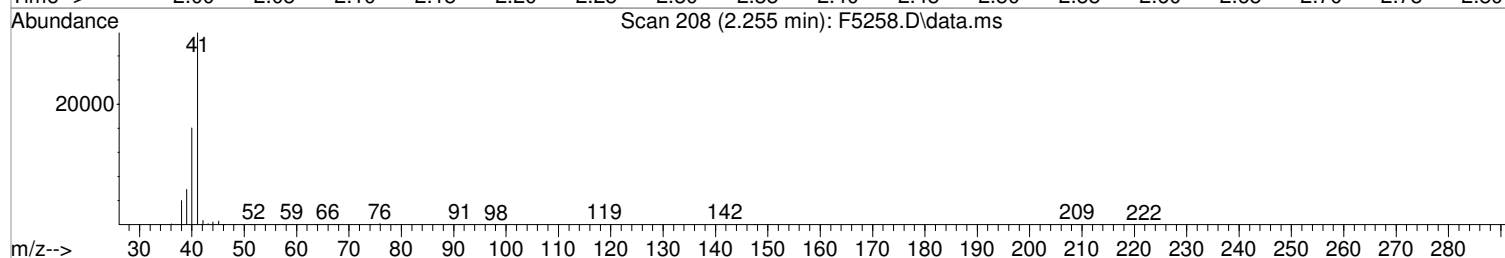
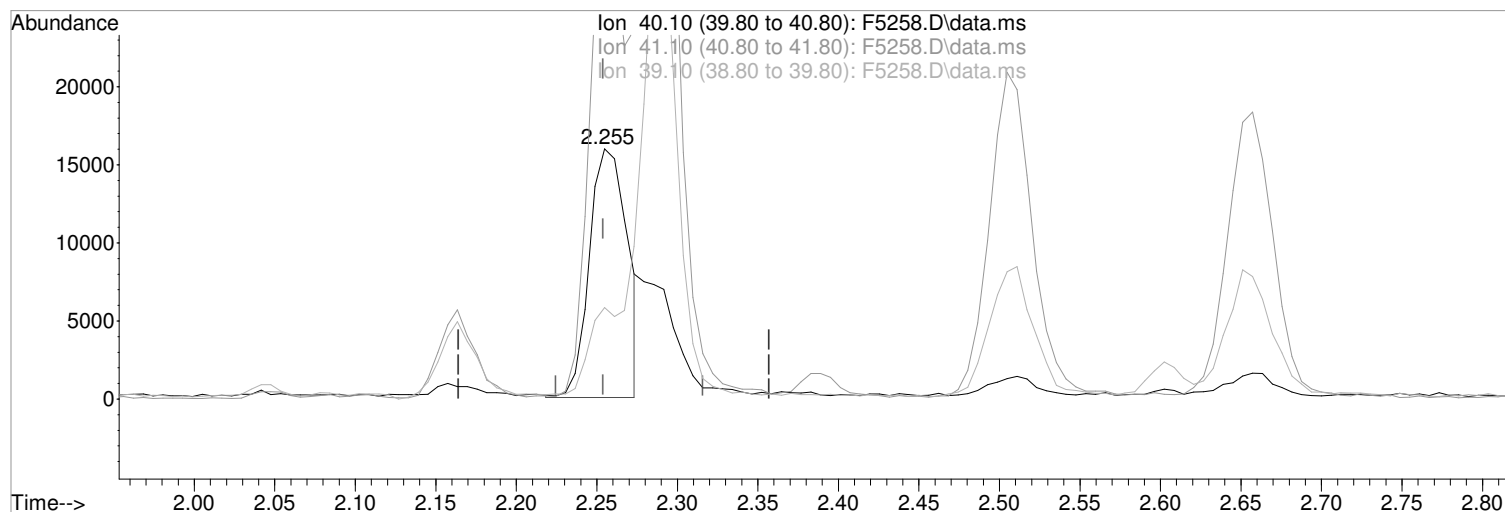
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5258.D
Acq On : 27 Mar 2019 10:48 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:00:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(19) Acetonitrile

2.255min (+0.001) 98.30 ug/L m

response 26165

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	198.52
39.10	38.20	36.56
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

03/31/19

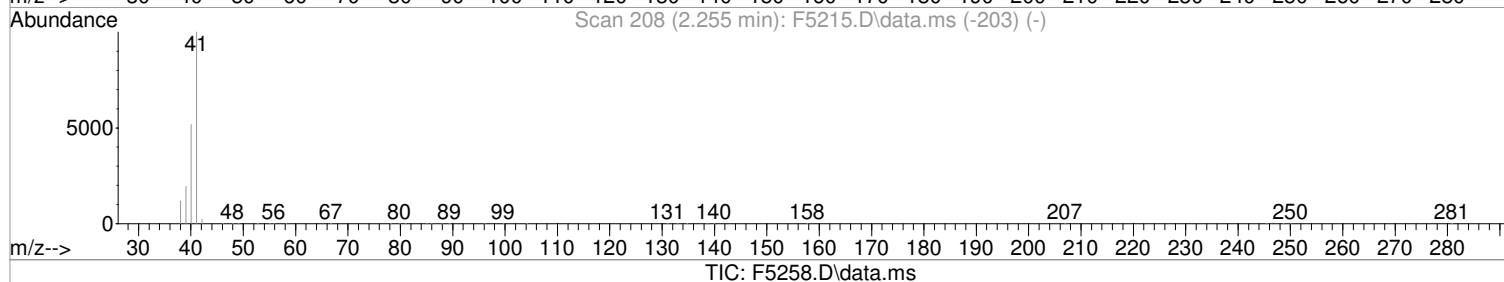
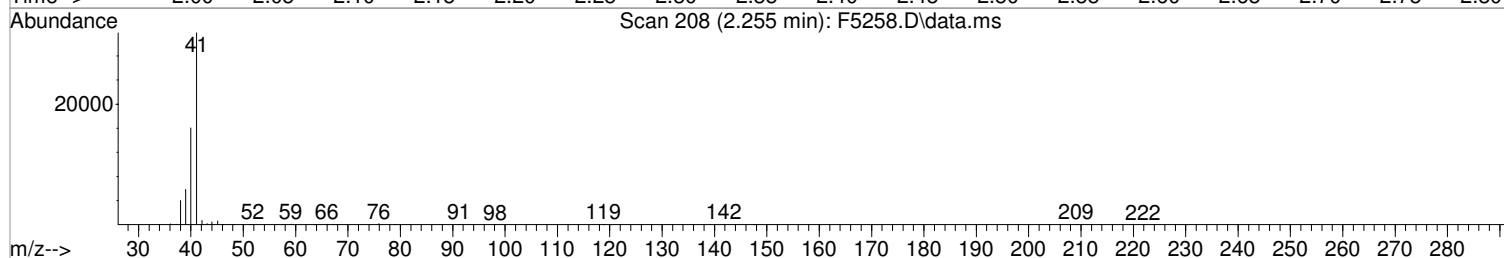
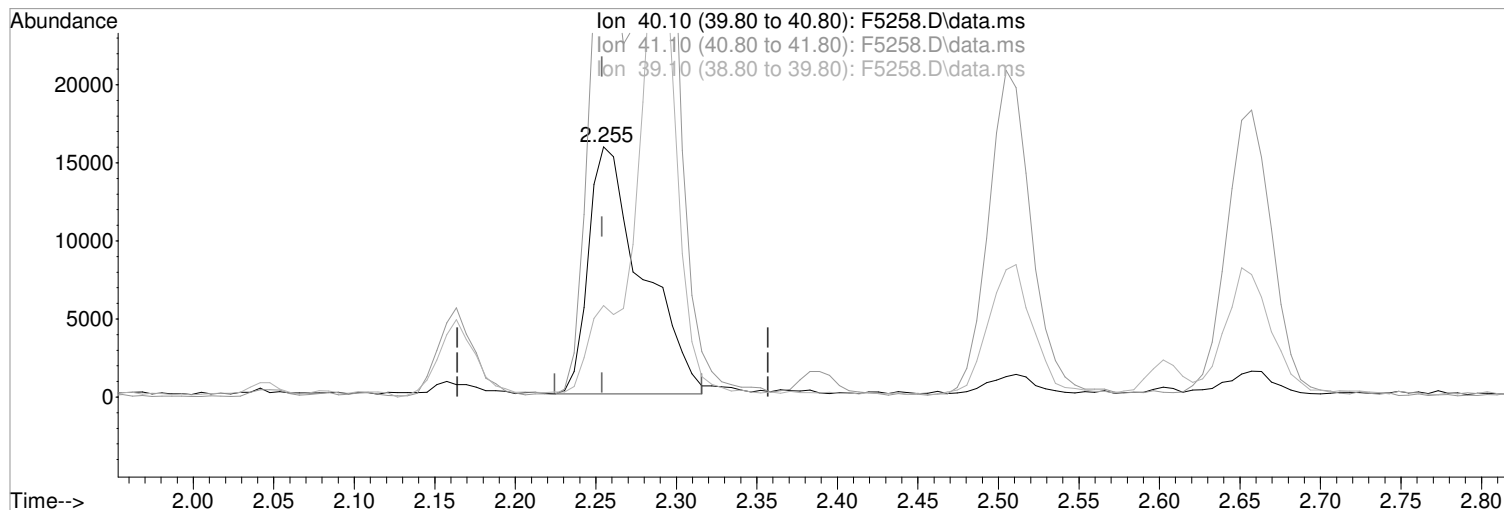
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5258.D
Acq On : 27 Mar 2019 10:48 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:00:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(19) Acetonitrile

Manual Integration:

2.255min (+0.001) 138.49 ug/L

Before

response 36862

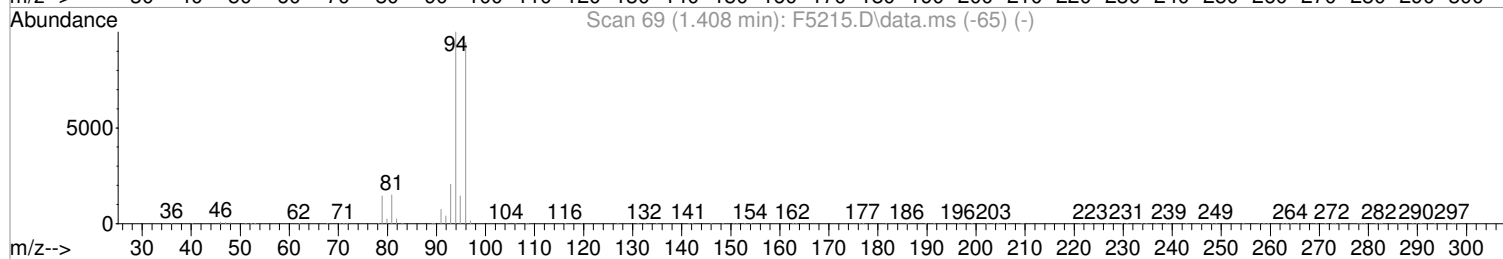
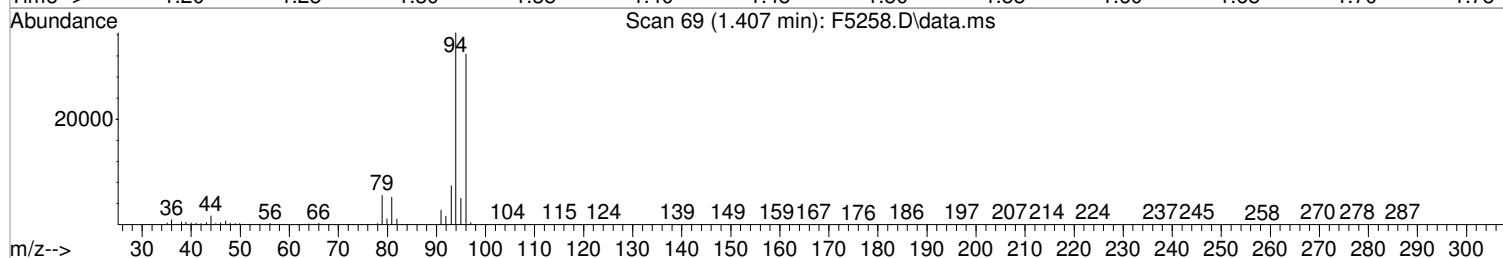
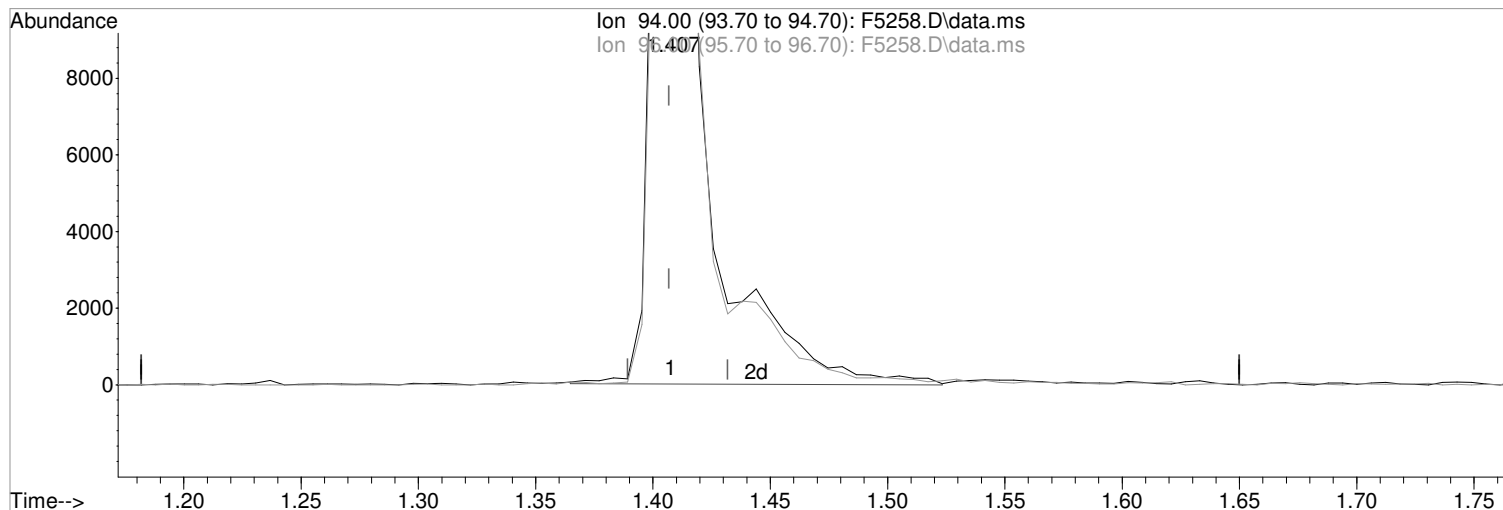
Ion	Exp%	Act%
40.10	100	100
41.10	192.60	198.52
39.10	38.20	36.56
0.00	0.00	0.00

03/31/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5258.D
Acq On : 27 Mar 2019 10:48 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:00:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5258.D\data.ms

(5) Bromomethane (P)

1.407min (+0.000) 19.02 ug/L m

response 39092

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	88.94
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

03/31/19

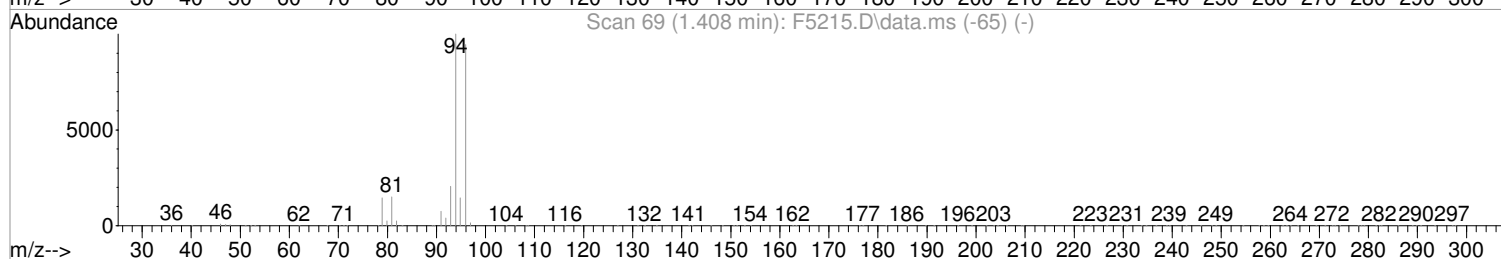
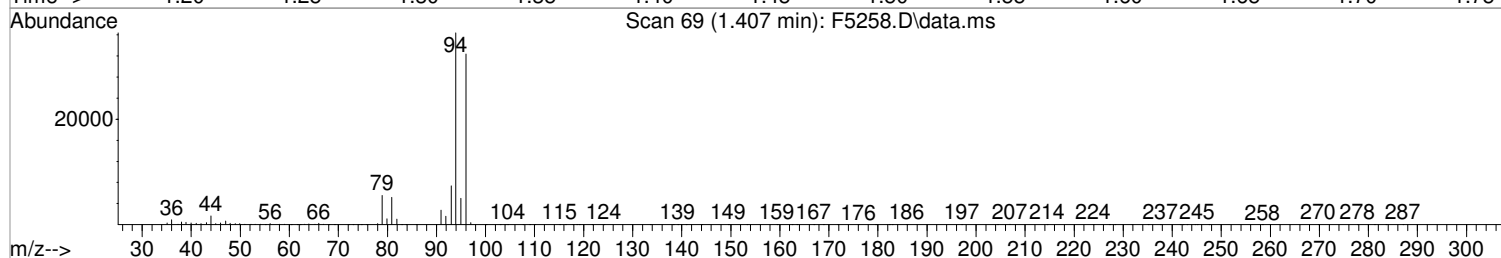
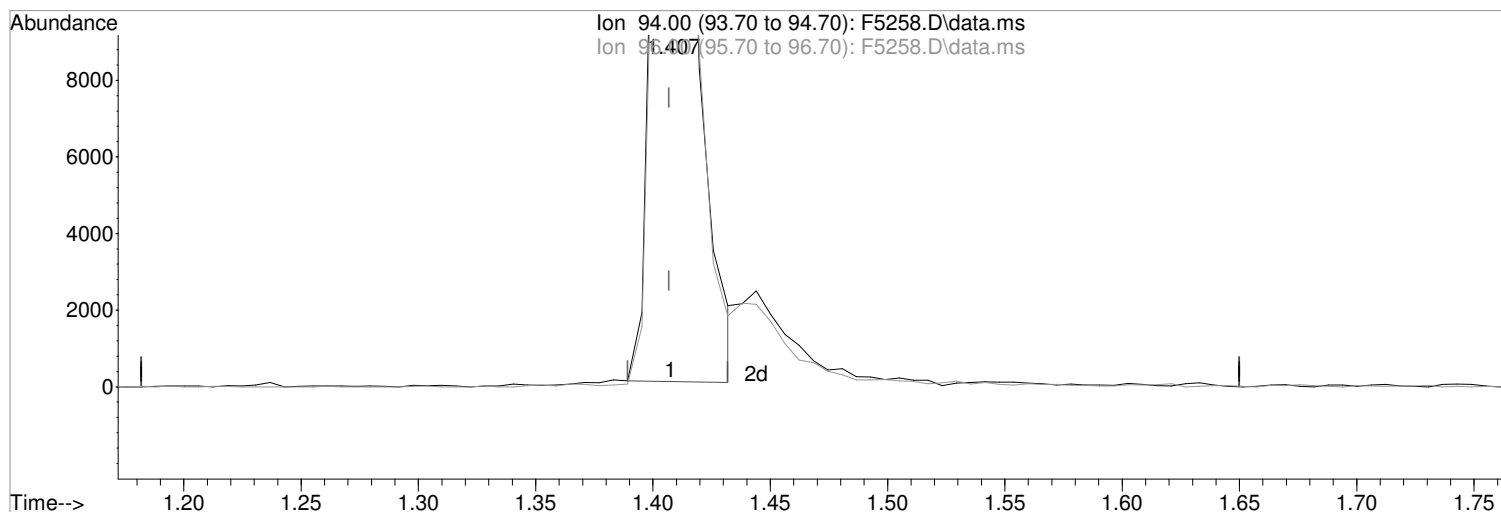
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5258.D
Acq On : 27 Mar 2019 10:48 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:00:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5258.D\data.ms

(5) Bromomethane (P)

Manual Integration:

1.407min (+0.000) 16.51 ug/L

Before

response 34329

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	88.94
0.00	0.00	0.00
0.00	0.00	0.00

03/31/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5258.D
 Acq On : 27 Mar 2019 10:48 pm
 Operator : F.NAEGLER
 Sample : LCS-FP
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:01:04 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	271176	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	401857	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	352491	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	188001	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	137693	51.42	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	102.84%	
47) surr1,1,2-dichloroetha...	5.120	65	158335	50.46	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.92%	
64) SURR3,Toluene-d8	7.949	98	538534	50.38	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.76%	
69) SURR2,BFB	10.723	95	202129	48.83	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.66%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	64252	20.23	ug/L	98
3) Chloromethane	1.151	50	64935	18.26	ug/L	97
4) Vinyl Chloride	1.218	62	64189	20.01	ug/L	99
5) Bromomethane	1.407	94	39092m	19.02	ug/L	
6) Chloroethane	1.475	64	34140	18.15	ug/L	98
7) Freon 21	1.603	67	90395	19.94	ug/L	99
8) Trichlorofluoromethane	1.645	101	72346	20.14	ug/L	99
9) Diethyl Ether	1.846	59	52489	20.67	ug/L	97
10) Freon 123a	1.846	67	57504	20.46	ug/L	99
11) Freon 123	1.889	83	71085	22.19	ug/L	96
12) Acrolein	1.932	56	27915	39.97	ug/L	99
13) 1,1-Dicethene	2.005	96	45634	20.15	ug/L	98
14) Freon 113	2.011	101	41108	20.02	ug/L	99
15) Acetone	2.042	43	27852	21.01	ug/L	94
16) 2-Propanol	2.163	45	115550	391.88	ug/L	98
17) Iodomethane	2.121	142	78109	25.05	ug/L	99
18) Carbon Disulfide	2.176	76	144179	24.05	ug/L	100
19) Acetonitrile	2.255	40	26165m	98.30	ug/L	
20) Allyl Chloride	2.291	76	26453	20.24	ug/L	99
21) Methyl Acetate	2.310	43	54287	19.70	ug/L	98
22) Methylene Chloride	2.389	84	56216	19.47	ug/L	98
23) TBA	2.505	59	199463	403.08	ug/L	99
24) Acrylonitrile	2.602	53	156406	101.88	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	181910	21.10	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	49882	19.66	ug/L	97
27) 1,1-Dicethane	3.066	63	94144	20.21	ug/L	99
28) Vinyl Acetate	3.151	86	14577	24.29	ug/L #	82
29) DIPE	3.182	45	184088	23.06	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.175	53	71901	23.44	ug/L	96
31) ETBE	3.639	59	163900	21.53	ug/L	98
32) 2,2-Dichloropropane	3.779	77	59330	17.25	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	58044	19.84	ug/L	100
34) 2-Butanone	3.828	43	40099	20.35	ug/L	96
35) Propionitrile	3.889	54	64943	102.62	ug/L	100
36) Bromochloromethane	4.120	130	39410	19.60	ug/L	97
37) Methacrylonitrile	4.126	67	32949	20.87	ug/L	86
38) Tetrahydrofuran	4.212	42	25567	19.73	ug/L	99
39) Chloroform	4.279	83	92758	20.17	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	71545	19.86	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5258.D
 Acq On : 27 Mar 2019 10:48 pm
 Operator : F.NAEGLER
 Sample : LCS-FP
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:01:04 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	173795	23.05	ug/L	99
43) Cyclohexane	4.645	41	42986	21.16	ug/L	99
45) Carbontetrachloride	4.840	117	56481	19.86	ug/L	97
46) 1,1-Dichloropropene	4.852	75	65824	20.41	ug/L	97
48) Benzene	5.218	78	207628	19.58	ug/L	99
49) 1,2-Dichloroethane	5.260	62	75318	20.01	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	79900	390.05	ug/L	98
51) n-Heptane	5.803	43	46725	17.76	ug/L	96
52) 1-Butanol	6.370	56	145119	1060.70	ug/L	100
53) Trichloroethene	6.303	130	55854	19.30	ug/L	99
54) Methylcyclohexane	6.565	55	60057	21.21	ug/L	96
55) 1,2-Dicloropropane	6.608	63	56677	19.69	ug/L	98
56) Dibromomethane	6.766	93	38294	19.95	ug/L	96
57) 1,4-Dioxane	6.845	88	25492	410.96	ug/L	99
58) Methyl Methacrylate	6.888	69	50952	20.57	ug/L	92
59) Bromodichloromethane	7.022	83	67277	20.10	ug/L	98
60) 2-Nitropropane	7.333	41	27030	37.01	ug/L	90
62) cis-1,3-Dichloropropene	7.626	75	87782	19.87	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	73133	21.07	ug/L	99
65) Toluene	8.022	91	222194	19.61	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	78785	20.10	ug/L	98
67) Ethyl Methacrylate	8.504	69	86731	22.03	ug/L	97
68) 1,1,2-Trichloroethane	8.528	97	54868	19.19	ug/L	98
71) Tetrachloroethene	8.668	164	41006	17.91	ug/L	92
72) 2-Hexanone	8.863	43	54063	21.05	ug/L	97
73) 1,3-Dichloropropane	8.711	76	97107	20.10	ug/L	99
74) Dibromochloromethane	8.961	129	51799	19.60	ug/L	99
75) N-Butyl Acetate	9.052	43	96868	20.35	ug/L	98
76) 1,2-Dibromoethane	9.052	107	57423	19.83	ug/L	94
77) 3-Chlorobenzotrifluoride	9.650	180	75784	20.90	ug/L	99
78) Chlorobenzene	9.607	112	146203	19.57	ug/L	100
79) 4-Chlorobenzotrifluoride	9.711	180	68004	20.70	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	50275	20.64	ug/L	98
81) Ethylbenzene	9.747	106	74666	19.67	ug/L	96
82) (m+p)Xylene	9.869	106	184782	39.34	ug/L	98
83) o-Xylene	10.247	106	92417	19.89	ug/L	98
84) Styrene	10.259	104	159248	20.20	ug/L	100
85) Bromoform	10.406	173	34400	21.12	ug/L	98
86) 2-Chlorobenzotrifluoride	10.509	180	77401	21.19	ug/L	98
87) Isopropylbenzene	10.601	105	223369	19.47	ug/L	100
88) Cyclohexanone	10.656	55	70817	105.78	ug/L	96
89) trans-1,4-Dichloro-2-B...	10.930	53	18551	19.95	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.875	83	82814	20.94	ug/L	100
92) Bromobenzene	10.845	156	66147	20.26	ug/L	99
93) 1,2,3-Trichloropropane	10.900	110	27008	19.80	ug/L	92
94) n-Propylbenzene	10.979	91	256896	19.92	ug/L	99
95) 2-Chlorotoluene	11.034	91	161081	19.93	ug/L	99
96) 3-Chlorotoluene	11.089	91	175190	22.17	ug/L	99
97) 4-Chlorotoluene	11.131	91	185830	19.93	ug/L	100
98) 1,3,5-Trimethylbenzene	11.137	105	186771	20.19	ug/L	99
99) tert-Butylbenzene	11.418	119	160057	19.98	ug/L	100
100) 1,2,4-Trimethylbenzene	11.454	105	193994	20.71	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.527	214	57912	20.64	ug/L	98
102) sec-Butylbenzene	11.607	105	231359	20.22	ug/L	100
103) p-Isopropyltoluene	11.735	119	193933	19.92	ug/L	99
104) 1,3-Dclbenz	11.680	146	115727	19.59	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5258.D
Acq On : 27 Mar 2019 10:48 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:01:04 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

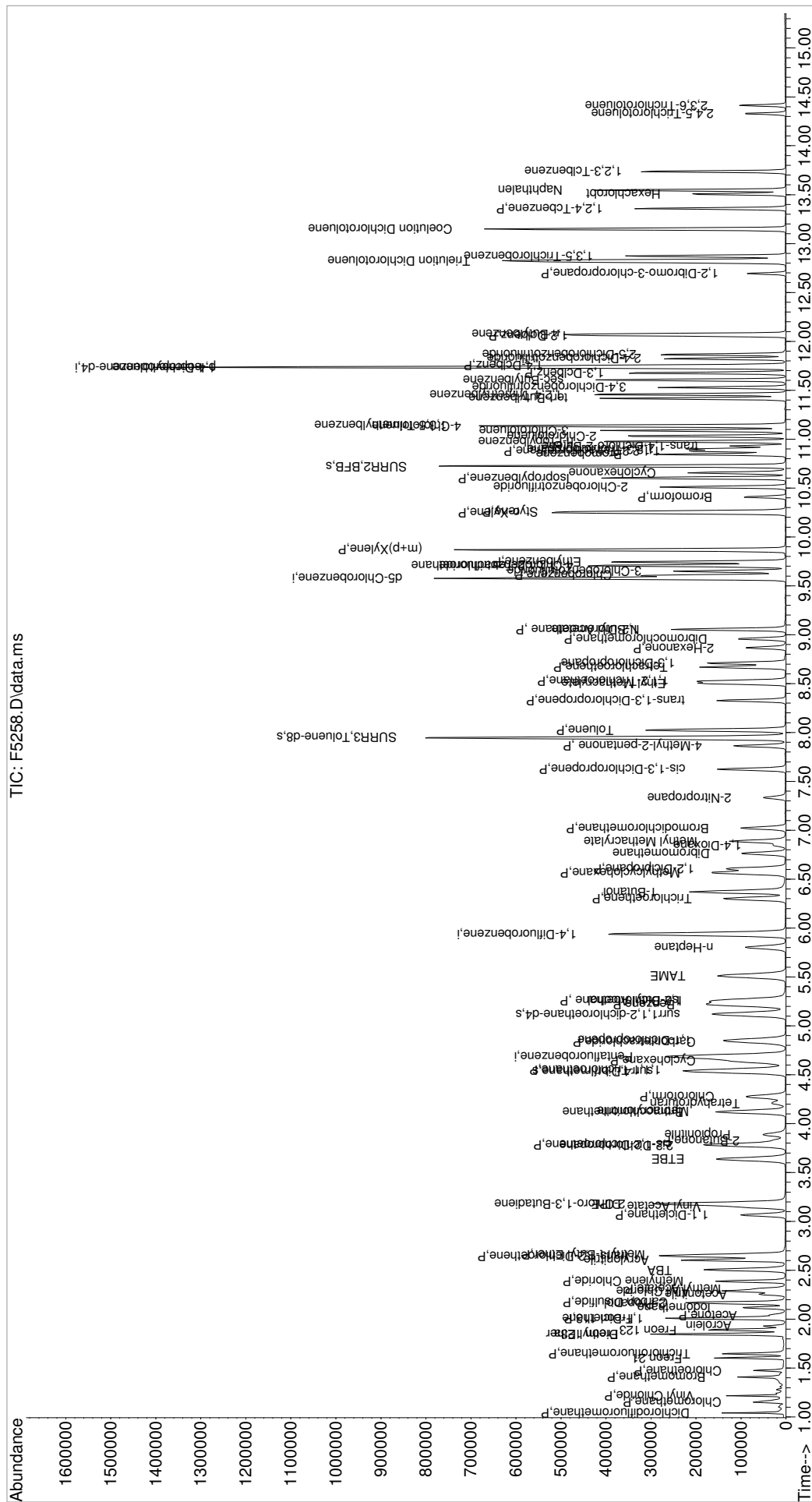
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.753	146	119193	19.20	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	53835	21.26	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.869	214	60222	20.74	ug/L	99
108) n-Butylbenzene	12.076	91	169011	19.71	ug/L	100
109) 1,2-Dclbenz	12.058	146	116552	19.43	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.698	157	17916	19.89	ug/L	93
111) Trielution Dichlorotol...	12.826	125	301994	69.45	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	88195	22.88	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	224910	48.20	ug/L	98
114) 1,2,4-Tcbenzene	13.356	180	83109	20.76	ug/L	94
115) Hexachlorobt	13.509	225	32962	19.06	ug/L	97
116) Naphthalen	13.545	128	245761	20.43	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	79977	20.53	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	19488	23.51	ug/L	100
119) 2,3,6-Trichlorotoluene	14.411	159	19588	20.29	ug/L	97

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

Data Path : I:\ACQDATA\MSVOA14\Data\032719\
Data File : F5258.D
Acq On : 27 Mar 2019 10:48 pm
Operator : F.NAEGLER
Sample : LCS-FP
Misc :
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 12:01:04 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
Qlast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5290.D
 Acq On : 28 Mar 2019 12:07 pm
 Operator : F.NAEGLER
 Sample : LCS-FP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:56:32 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	275628	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	412613	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	362013	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	193071	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	138408	50.34	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.68%	
47) surr1,1,2-dichloroetha...	5.120	65	158117	49.07	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	98.14%	
64) SURR3,Toluene-d8	7.943	98	539728	49.18	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.36%	
69) SURR2,BFB	10.723	95	201148	47.33	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.66%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	62743	19.44	ug/L	100
3) Chloromethane	1.151	50	62721	17.35	ug/L	99
4) Vinyl Chloride	1.218	62	60782	18.64	ug/L	97
5) Bromomethane	1.407	94	35344	16.74	ug/L	100
6) Chloroethane	1.475	64	34024	17.80	ug/L	98
7) Freon 21	1.603	67	96963	21.04	ug/L	99
8) Trichlorofluoromethane	1.645	101	66835	18.30	ug/L	99
9) Diethyl Ether	1.846	59	49916	19.34	ug/L	99
10) Freon 123a	1.846	67	64309	22.51	ug/L	98
11) Freon 123	1.889	83	79000	24.26	ug/L	98
12) Acrolein	1.926	56	25919	36.52	ug/L	95
13) 1,1-Dicethene	2.005	96	42619	18.51	ug/L	94
14) Freon 113	2.011	101	39687	19.01	ug/L	96
15) Acetone	2.042	43	24211	17.97	ug/L	99
16) 2-Propanol	2.157	45	103484	345.29	ug/L	97
17) Iodomethane	2.115	142	71497	22.73	ug/L	99
18) Carbon Disulfide	2.170	76	126073	20.69	ug/L	100
19) Acetonitrile	2.255	40	25750	95.18	ug/L	98
20) Allyl Chloride	2.291	76	25154	18.93	ug/L	95
21) Methyl Acetate	2.310	43	54924	19.61	ug/L	100
22) Methylene Chloride	2.389	84	53953	18.38	ug/L	99
23) TBA	2.505	59	172551	343.06	ug/L	99
24) Acrylonitrile	2.602	53	147164	94.31	ug/L	100
25) Methyl-t-Butyl Ether	2.651	73	174243	19.88	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	46995	18.22	ug/L	98
27) 1,1-Dicethane	3.066	63	90418	19.10	ug/L	97
28) Vinyl Acetate	3.145	86	13724	22.50	ug/L	# 82
29) DIPE	3.182	45	165626	20.42	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.175	53	60847	19.51	ug/L	100
31) ETBE	3.633	59	147140	19.02	ug/L	99
32) 2,2-Dichloropropane	3.779	77	66420	19.00	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	56374	18.96	ug/L	94
34) 2-Butanone	3.822	43	35737	17.85	ug/L	94
35) Propionitrile	3.889	54	60531	94.11	ug/L	97
36) Bromochloromethane	4.120	130	37408	18.30	ug/L	98
37) Methacrylonitrile	4.120	67	31311	19.51	ug/L	93
38) Tetrahydrofuran	4.206	42	22909	17.39	ug/L	97
39) Chloroform	4.273	83	87949	18.82	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	67271	18.37	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5290.D
 Acq On : 28 Mar 2019 12:07 pm
 Operator : F.NAEGLER
 Sample : LCS-FP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:56:32 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	155952	20.35	ug/L	97
43) Cyclohexane	4.645	41	47688	22.86	ug/L	98
45) Carbontetrachloride	4.840	117	51419	17.61	ug/L	98
46) 1,1-Dichloropropene	4.852	75	62555	18.89	ug/L	98
48) Benzene	5.212	78	198342	18.21	ug/L	99
49) 1,2-Dichloroethane	5.254	62	73808	19.10	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	69637	331.09	ug/L	99
51) n-Heptane	5.803	43	55141	20.41	ug/L	95
52) 1-Butanol	6.370	56	114581	815.66	ug/L	100
53) Trichloroethene	6.297	130	51637	17.38	ug/L	98
54) Methylcyclohexane	6.565	55	69772	23.99	ug/L	95
55) 1,2-Dichloropropane	6.608	63	55210	18.68	ug/L	97
56) Dibromomethane	6.760	93	38307	19.43	ug/L	92
57) 1,4-Dioxane	6.845	88	23639	371.15	ug/L	90
58) Methyl Methacrylate	6.888	69	49787	19.58	ug/L	96
59) Bromodichloromethane	7.022	83	66610	19.38	ug/L	99
60) 2-Nitropropane	7.333	41	27669	36.90	ug/L	92
61) 2-Chloroethylvinyl Ether	7.492	63	804	1.82	ug/L	100
62) cis-1,3-Dichloropropene	7.620	75	87410	19.27	ug/L	98
63) 4-Methyl-2-pentanone	7.857	43	63943	17.94	ug/L	99
65) Toluene	8.022	91	209479	18.00	ug/L	97
66) trans-1,3-Dichloropropene	8.327	75	78520	19.51	ug/L	99
67) Ethyl Methacrylate	8.504	69	81166	20.08	ug/L	98
68) 1,1,2-Trichloroethane	8.522	97	54791	18.67	ug/L	98
71) Tetrachloroethene	8.668	164	39259	16.70	ug/L	97
72) 2-Hexanone	8.863	43	46141	17.50	ug/L	96
73) 1,3-Dichloropropane	8.711	76	95346	19.22	ug/L	98
74) Dibromochloromethane	8.955	129	51385	18.94	ug/L	98
75) N-Butyl Acetate	9.052	43	96386	19.72	ug/L	99
76) 1,2-Dibromoethane	9.052	107	56801	19.10	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	72148	19.37	ug/L	97
78) Chlorobenzene	9.607	112	140396	18.30	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	65766	19.49	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	49040	19.60	ug/L	97
81) Ethylbenzene	9.741	106	71060	18.23	ug/L	95
82) (m+p)Xylene	9.869	106	175384	36.36	ug/L	100
83) o-Xylene	10.247	106	88432	18.53	ug/L	98
84) Styrene	10.259	104	148887	18.39	ug/L	98
85) Bromoform	10.406	173	33537	20.09	ug/L	100
86) 2-Chlorobenzotrifluoride	10.509	180	71743	19.12	ug/L	100
87) Isopropylbenzene	10.601	105	211514	17.95	ug/L	99
88) Cyclohexanone	10.656	55	62964	91.58	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.930	53	17754	18.59	ug/L	94
91) 1,1,2,2-Tetrachloroethane	10.875	83	80910	19.92	ug/L	99
92) Bromobenzene	10.845	156	62844	18.74	ug/L	99
93) 1,2,3-Trichloropropane	10.900	110	25243	18.02	ug/L	98
94) n-Propylbenzene	10.979	91	247052	18.66	ug/L	99
95) 2-Chlorotoluene	11.034	91	153398	18.49	ug/L	99
96) 3-Chlorotoluene	11.089	91	158756	19.56	ug/L	98
97) 4-Chlorotoluene	11.131	91	179770	18.78	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	179405	18.88	ug/L	99
99) tert-Butylbenzene	11.418	119	149324	18.15	ug/L	96
100) 1,2,4-Trimethylbenzene	11.460	105	184120	19.14	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.527	214	57772	20.05	ug/L	97
102) sec-Butylbenzene	11.607	105	222534	18.93	ug/L	100
103) p-Isopropyltoluene	11.735	119	185731	18.58	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5290.D
 Acq On : 28 Mar 2019 12:07 pm
 Operator : F.NAEGLER
 Sample : LCS-FP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:56:32 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	112726	18.58	ug/L	97
105) 1,4-Dclbenz	11.753	146	116284	18.24	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	52499	20.18	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	57735	19.36	ug/L	99
108) n-Butylbenzene	12.076	91	170458	19.35	ug/L	97
109) 1,2-Dclbenz	12.058	146	115868	18.81	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	17084	18.53	ug/L	92
111) Trielution Dichlorotol...	12.826	125	284652	63.74	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	82925	20.95	ug/L	100
113) Coelution Dichlorotoluene	13.149	125	208558	43.52	ug/L	97
114) 1,2,4-Tcbenzene	13.362	180	81141	19.76	ug/L	99
115) Hexachlorobt	13.509	225	34902	19.65	ug/L	98
116) Naphthalen	13.545	128	234578	19.05	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	79040	19.78	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	19369	22.92	ug/L	96
119) 2,3,6-Trichlorotoluene	14.417	159	19849	20.07	ug/L	98

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

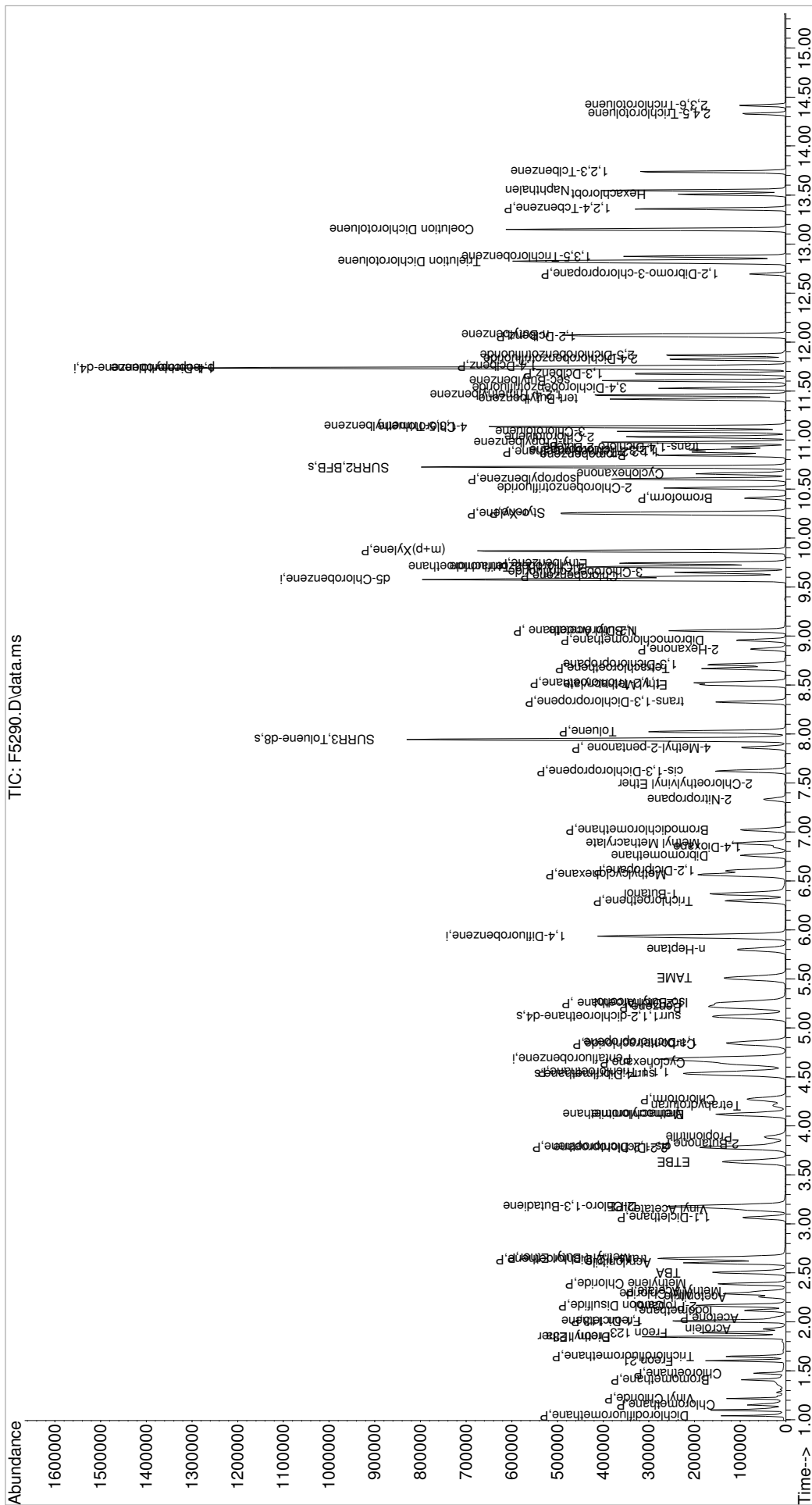
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\032819\
Data File	:	F5290.D
Acq On	:	28 Mar 2019 12:07 pm
Operator	:	F.NAEGLER
Sample	:	LCS-FP
Misc	:	
ALS Vial	:	2 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 16:56:32 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



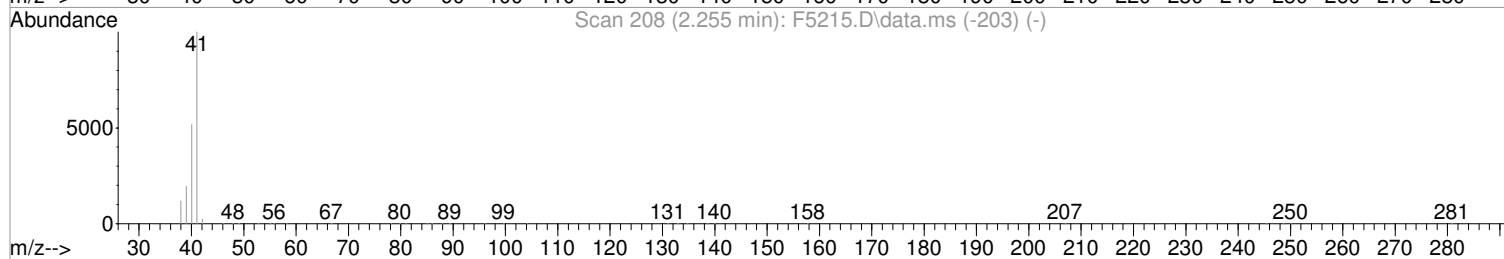
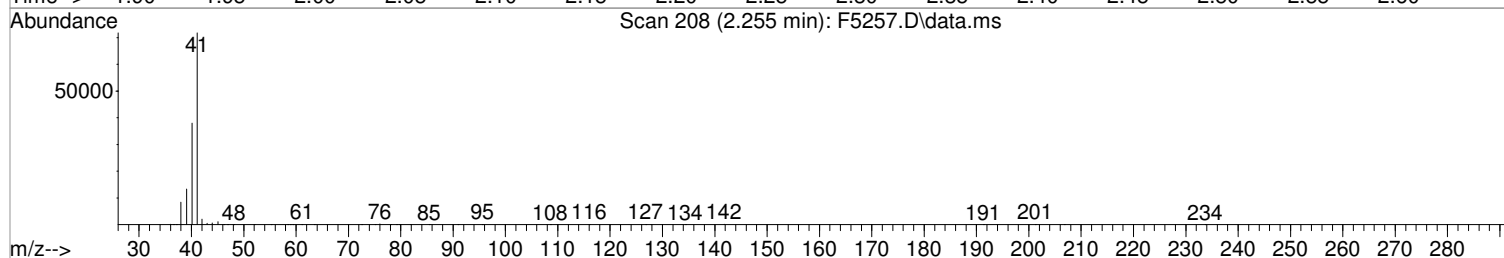
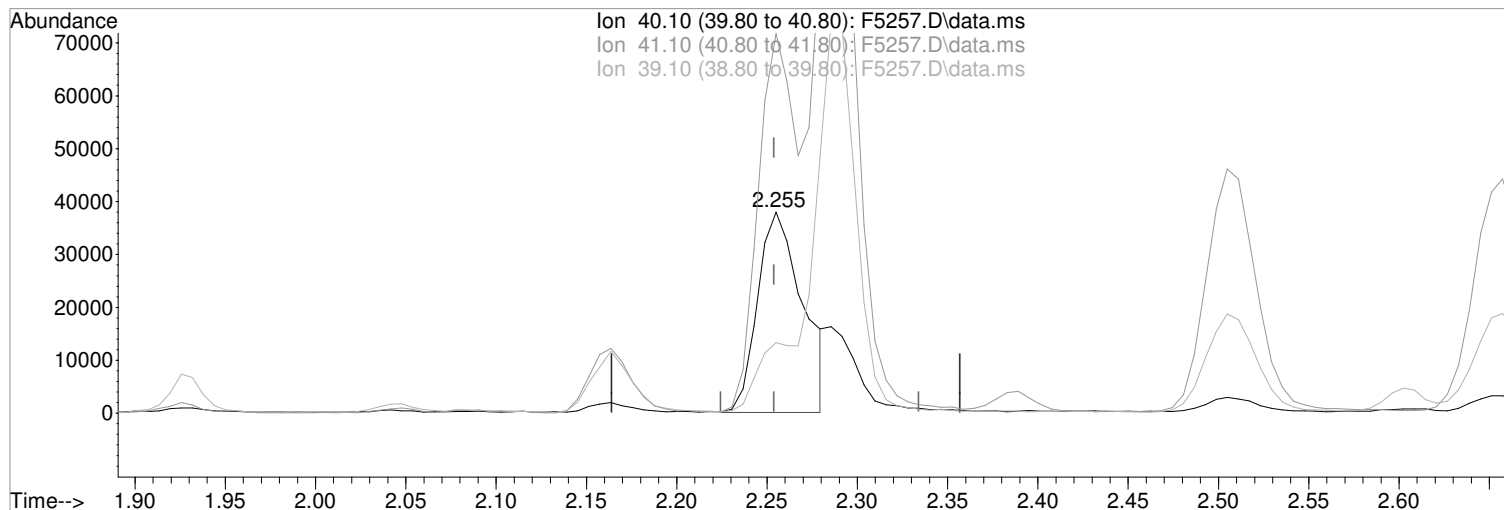
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5257.D
Acq On : 27 Mar 2019 10:26 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:57:46 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(19) Acetonitrile

2.255min (+0.001) 249.63 ug/L m

response 65716

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	188.66
39.10	38.20	34.96
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

03/31/19

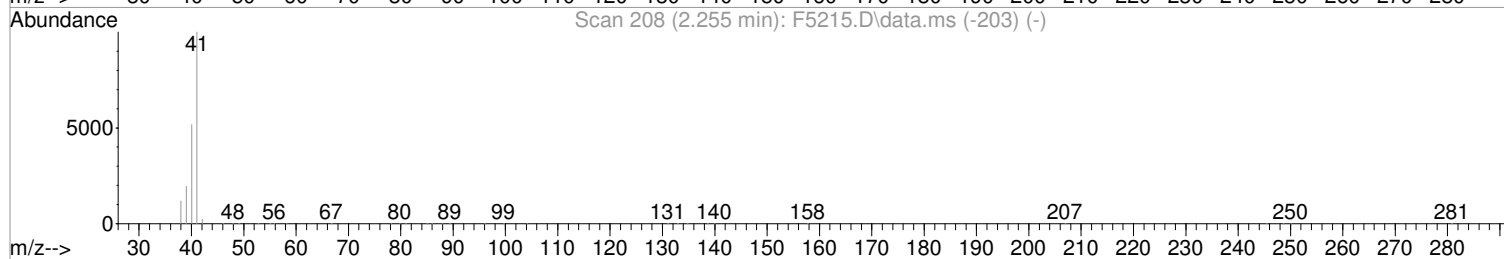
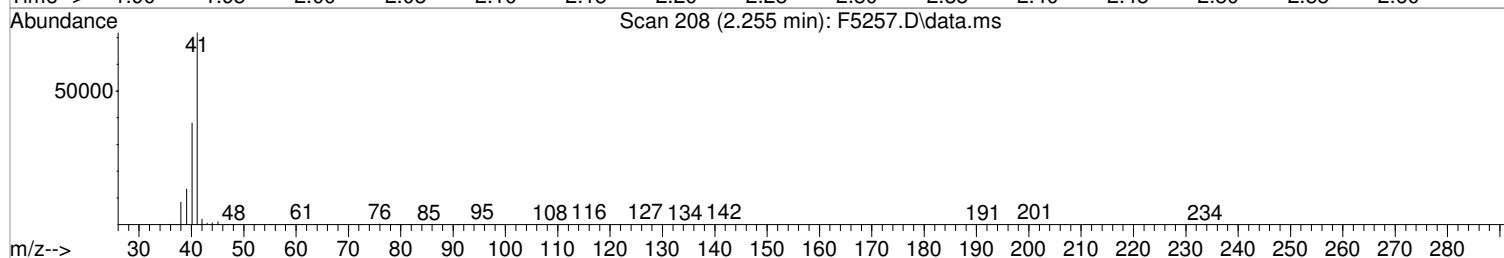
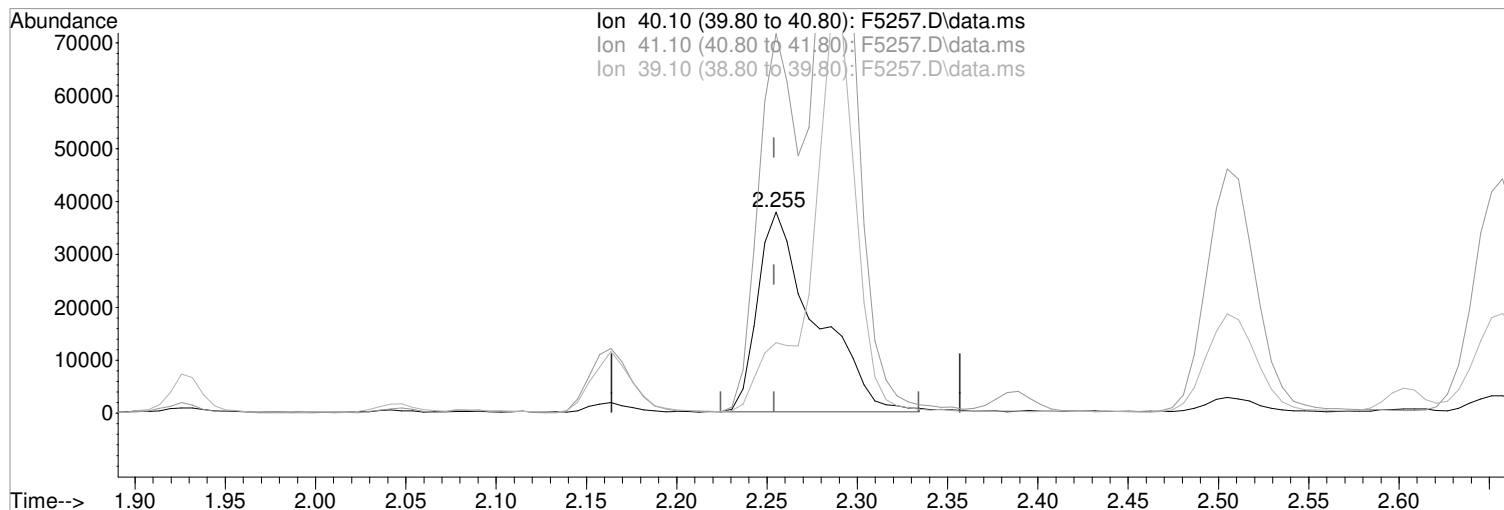
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5257.D
Acq On : 27 Mar 2019 10:26 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:57:46 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(19) Acetonitrile

Manual Integration:

2.255min (+0.001) 319.22 ug/L

Before

response 84036

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	188.66
39.10	38.20	34.96
0.00	0.00	0.00

03/31/19

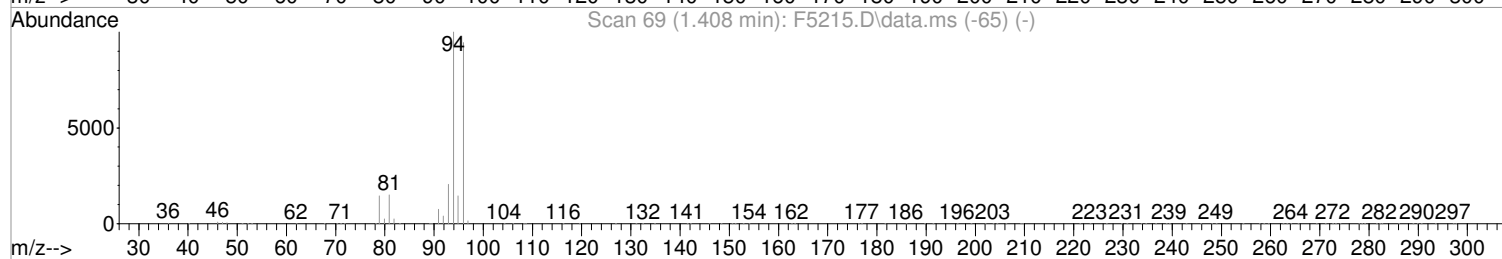
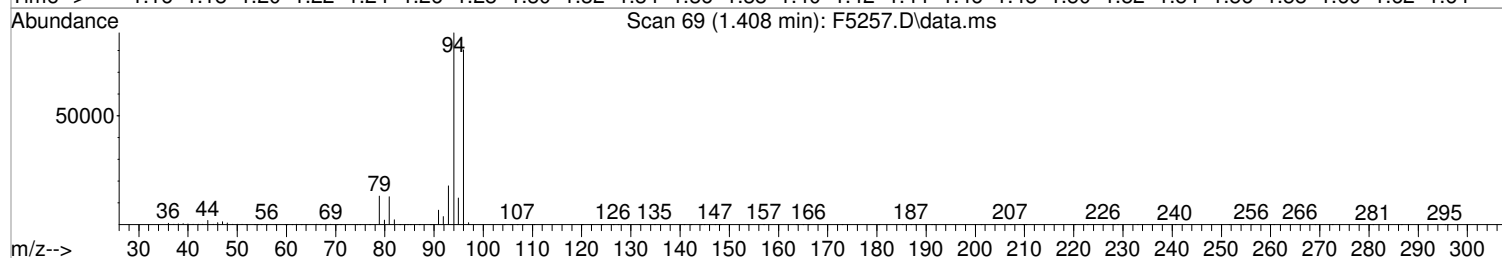
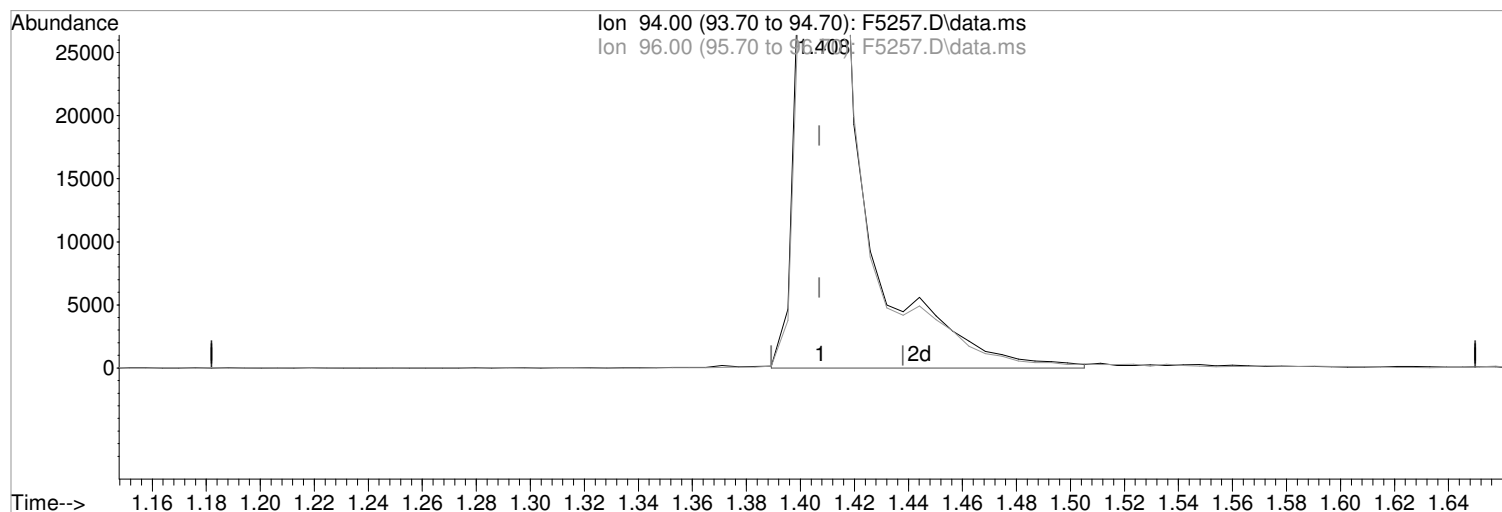
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5257.D
Acq On : 27 Mar 2019 10:26 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:57:46 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5257.D\data.ms

(5) Bromomethane (P)

1.408min (+0.001) 52.89 ug/L m

response 91569

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	91.11
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

03/31/19

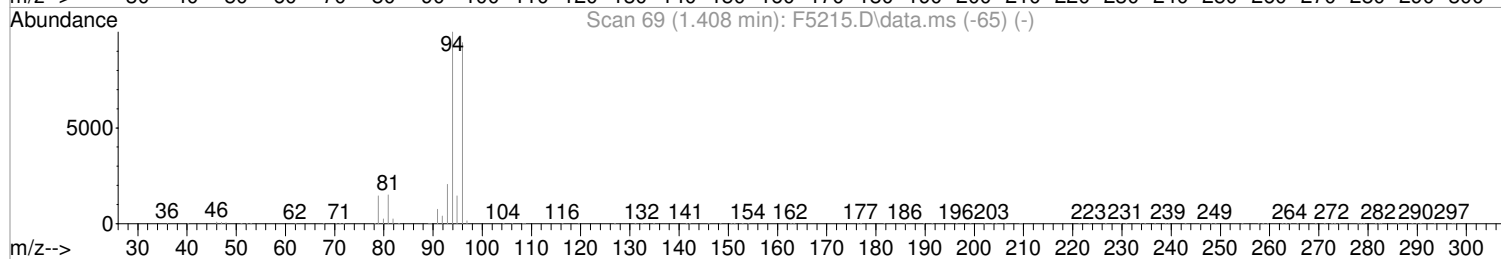
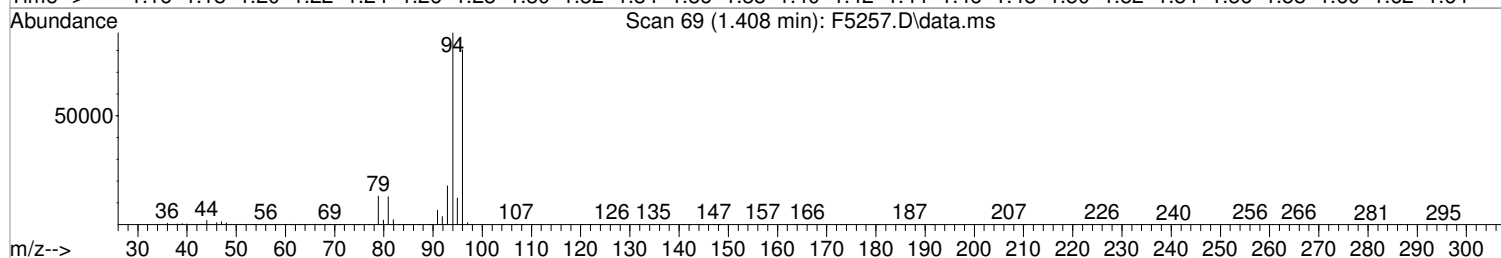
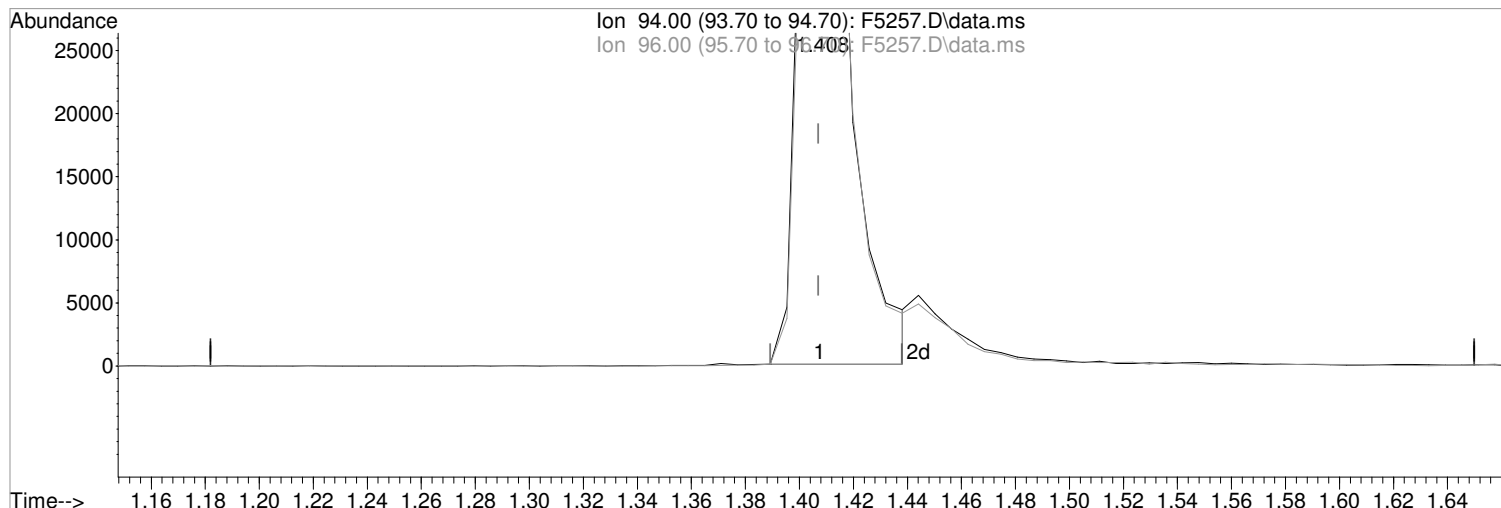
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5257.D
Acq On : 27 Mar 2019 10:26 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:57:46 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5257.D\data.ms

(5) Bromomethane (P)

Manual Integration:

1.408min (+0.001) 47.19 ug/L

Before

response 84035

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	91.11
0.00	0.00	0.00
0.00	0.00	0.00

03/31/19

Evaluate Continuing Calibration Report

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5257.D
 Acq On : 27 Mar 2019 10:26 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:58:24 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 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	50.000	50.000	0.0	100	0.00
2 P	Dichlorodifluoromethane	50.000	51.288	-2.6	93	0.00
3 P	Chloromethane	50.000	48.084	3.8	95	0.00
4 P	Vinyl Chloride	50.000	51.933	-3.9	95	0.00
5 P	Bromomethane	50.000	52.885	-5.8	106	0.00
6 P	Chloroethane	50.000	53.251	-6.5	100	0.00
7	Freon 21	50.000	53.904	-7.8	108	0.00
8 P	Trichlorofluoromethane	50.000	51.015	-2.0	96	0.00
9	Diethyl Ether	50.000	49.682	0.6	99	0.00
10	Freon 123a	50.000	53.961	-7.9	109	0.00
11	Freon 123	50.000	53.963	-7.9	108	0.00
12	Acrolein	250.000	219.676	12.1	86	0.00
13	1,1-Dicethene	50.000	50.463	-0.9	95	0.00
14 P	Freon 113	50.000	49.911	0.2	94	0.00
15 P	Acetone	50.000	45.935	8.1	94	0.00
16	2-Propanol	1000.000	925.768	7.4	92	0.00
17	Iodomethane	50.000	58.383	-16.8	113	0.00
18 P	Carbon Disulfide	50.000	55.769	-11.5	110	0.00
19	Acetonitrile	250.000	249.628	0.1	98	0.00
20	Allyl Chloride	50.000	48.498	3.0	94	0.00
21 P	Methyl Acetate	50.000	48.075	3.8	92	0.00
22 P	Methylene Chloride	50.000	48.415	3.2	98	0.00
23	TBA	1000.000	907.110	9.3	91	0.00
24	Acrylonitrile	250.000	234.292	6.3	91	0.00
25 P	Methyl-t-Butyl Ether	50.000	49.798	0.4	98	0.00
26 P	trans-1,2-Dichloroethene	50.000	49.749	0.5	96	0.00
27 P	1,1-Dicethane	50.000	51.406	-2.8	98	0.00
28	Vinyl Acetate	50.000	43.113	13.8	82	0.00
29	DIPE	50.000	56.950	-13.9	114	0.00
30	2-Chloro-1,3-Butadiene	50.000	56.617	-13.2	109	0.00
31	ETBE	50.000	55.542	-11.1	111	0.00
32	2,2-Dichloropropane	50.000	44.770	10.5	87	0.00
33 P	cis-1,2-Dichloroethene	50.000	49.926	0.1	98	0.00
34 P	2-Butanone	50.000	45.563	8.9	93	0.00
35	Propionitrile	250.000	235.025	6.0	89	0.00
36	Bromochloromethane	50.000	49.355	1.3	96	0.00
37	Methacrylonitrile	50.000	48.788	2.4	91	0.00
38	Tetrahydrofuran	50.000	44.818	10.4	91	0.00
39 P	Chloroform	50.000	50.352	-0.7	98	0.00
40 P	1,1,1-Trichloroethane	50.000	51.912	-3.8	97	0.00
41	TAME	50.000	54.937	-9.9	109	0.00
42 i	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
43 P	Cyclohexane	50.000	54.051	-8.1	109	0.00
44 s	surr4,Dibrflmethane	50.000	51.610	-3.2	105	0.00
45 P	Carbontetrachloride	50.000	51.153	-2.3	98	0.00
46	1,1-Dichloropropene	50.000	51.366	-2.7	97	0.00
47 s	surr1,1,2-dichloroethane-d4	50.000	50.429	-0.9	103	0.00
48 P	Benzene	50.000	50.706	-1.4	98	0.00
49 P	1,2-Dichloroethane	50.000	49.842	0.3	97	0.00
50	Iso-Butyl Alcohol	1000.000	941.173	5.9	91	0.00
51	n-Heptane	50.000	46.302	7.4	85	0.00

Evaluate Continuing Calibration Report

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5257.D
 Acq On : 27 Mar 2019 10:26 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:58:24 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 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	1-Butanol	2500.000	2513.411	-0.5	96	0.00	
53 P	Trichloroethene	50.000	50.987	-2.0	96	0.00	
54 P	Methylcyclohexane	50.000	53.026	-6.1	105	0.00	
55 P	1,2-Dichloropropane	50.000	50.262	-0.5	97	0.00	
56	Dibromomethane	50.000	49.925	0.2	97	0.00	
57	1,4-Dioxane	1000.000	938.254	6.2	91	0.00	
58	Methyl Methacrylate	50.000	49.544	0.9	92	0.00	
59 P	Bromodichloromethane	50.000	51.971	-3.9	100	0.00	
60	2-Nitropropane	100.000	90.210	9.8	90	0.00	
61	2-Chloroethylvinyl Ether	50.000	37.925	24.2#	69	0.00	NT
62 P	cis-1,3-Dichloropropene	50.000	51.116	-2.2	96	0.00	
63 P	4-Methyl-2-pentanone	50.000	47.868	4.3	93	0.00	
64 s	SURR3, Toluene-d8	50.000	50.671	-1.3	105	0.00	
65 P	Toluene	50.000	50.298	-0.6	97	0.00	
66 P	trans-1,3-Dichloropropene	50.000	51.447	-2.9	96	0.00	
67	Ethyl Methacrylate	50.000	53.616	-7.2	94	0.00	
68 P	1,1,2-Trichloroethane	50.000	48.934	2.1	95	0.00	
69 s	SURR2, BFB	50.000	49.479	1.0	103	0.00	
70 i	d5-Chlorobenzene	50.000	50.000	0.0	100	0.00	
71 P	Tetrachloroethene	50.000	47.444	5.1	95	0.00	
72 P	2-Hexanone	50.000	48.601	2.8	92	0.00	
73	1,3-Dichloropropane	50.000	50.220	-0.4	96	0.00	
74 P	Dibromochloromethane	50.000	51.166	-2.3	96	0.00	
75	N-Butyl Acetate	50.000	51.196	-2.4	96	0.00	
76 P	1,2-Dibromoethane	50.000	49.866	0.3	94	0.00	
77	3-Chlorobenzotrifluoride	50.000	60.084	-20.2#	123	0.00	NT
78 P	Chlorobenzene	50.000	49.673	0.7	97	0.00	
79	4-Chlorobenzotrifluoride	50.000	58.802	-17.6	119	0.00	
80	1,1,1,2-Tetrachloroethane	50.000	52.633	-5.3	97	0.00	
81 P	Ethylbenzene	50.000	51.641	-3.3	98	0.00	
82 P	(m+p)Xylene	100.000	102.310	-2.3	96	0.00	
83 P	o-Xylene	50.000	51.722	-3.4	97	0.00	
84 P	Styrene	50.000	52.166	-4.3	96	0.00	
85 P	Bromoform	50.000	51.178	-2.4	96	0.00	
86	2-Chlorobenzotrifluoride	50.000	59.200	-18.4	121	0.00	
87 P	Isopropylbenzene	50.000	52.510	-5.0	97	0.00	
88	Cyclohexanone	1000.000	891.667	10.8	82	0.00	
89	trans-1,4-Dichloro-2-Butene	50.000	46.186	7.6	87	0.00	
90 i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00	
91 P	1,1,2,2-Tetrachloroethane	50.000	47.805	4.4	96	0.00	
92	Bromobenzene	50.000	49.957	0.1	97	0.00	
93	1,2,3-Trichloropropane	50.000	47.036	5.9	91	0.00	
94	n-Propylbenzene	50.000	51.639	-3.3	96	0.00	
95	2-Chlorotoluene	50.000	51.047	-2.1	97	0.00	
96	3-Chlorotoluene	50.000	57.588	-15.2	117	0.00	
97	4-Chlorotoluene	50.000	50.329	-0.7	97	0.00	
98	1,3,5-Trimethylbenzene	50.000	51.893	-3.8	97	0.00	
99	tert-Butylbenzene	50.000	51.980	-4.0	97	0.00	
100	1,2,4-Trimethylbenzene	50.000	52.353	-4.7	97	0.00	
101	3,4-Dichlorobenzotrifluorid	50.000	56.126	-12.3	113	0.00	

Evaluate Continuing Calibration Report

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5257.D
 Acq On : 27 Mar 2019 10:26 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:58:24 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 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	sec-Butylbenzene	50.000	52.790	-5.6	97	0.00
103	p-Isopropyltoluene	50.000	51.580	-3.2	96	0.00
104 P	1,3-Dclbenz	50.000	49.287	1.4	96	0.00
105 P	1,4-Dclbenz	50.000	47.706	4.6	96	0.00
106	2,4-Dichlorobenzotrifluorid	50.000	56.730	-13.5	113	0.00
107	2,5-Dichlorobenzotrifluorid	50.000	56.182	-12.4	113	0.00
108	n-Butylbenzene	50.000	51.102	-2.2	96	0.00
109 P	1,2-Dclbenz	50.000	50.066	-0.1	97	0.00
110 P	1,2-Dibromo-3-chloropropane	50.000	47.663	4.7	90	0.00
111	Trielution Dichlorotoluene	150.000	179.122	-19.4	113	0.00
112	1,3,5-Trichlorobenzene	50.000	56.982	-14.0	110	0.00
113	Coelution Dichlorotoluene	100.000	121.355	-21.4#	111	0.00 NT
114 P	1,2,4-Tcbenzene	50.000	49.506	1.0	96	0.00
115	Hexachlorobt	50.000	46.638	6.7	93	0.00
116	Naphthalen	50.000	49.782	0.4	93	0.00
117	1,2,3-Tclbenzene	50.000	49.789	0.4	96	0.00
118	2,4,5-Trichlorotoluene	50.000	56.474	-12.9	105	0.00
119	2,3,6-Trichlorotoluene	50.000	57.102	-14.2	106	0.00

(#) = Out of Range

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

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5257.D
 Acq On : 27 Mar 2019 10:26 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:58:24 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	268205	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	397721	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	348703	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	191526	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	136780	51.61	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	103.22%		
47) surr1,1,2-dichloroetha...	5.120	65	156625	50.43	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	100.86%		
64) SURR3,Toluene-d8	7.943	98	536034	50.67	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	101.34%		
69) SURR2,BFB	10.723	95	202698	49.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	98.96%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	161082	51.29	ug/L	99
3) Chloromethane	1.152	50	169118	48.08	ug/L	99
4) Vinyl Chloride	1.219	62	164776	51.93	ug/L	99
5) Bromomethane	1.408	94	91569m	52.89	ug/L	
6) Chloroethane	1.475	64	99059	53.25	ug/L	98
7) Freon 21	1.603	67	241704	53.90	ug/L	100
8) Trichlorofluoromethane	1.645	101	181259	51.01	ug/L	99
9) Diethyl Ether	1.847	59	124752	49.68	ug/L	98
10) Freon 123a	1.847	67	149981	53.96	ug/L	98
11) Freon 123	1.889	83	170988	53.96	ug/L	98
12) Acrolein	1.926	56	151724	219.68	ug/L	98
13) 1,1-Dicethene	2.005	96	113050	50.46	ug/L	98
14) Freon 113	2.011	101	101372	49.91	ug/L	100
15) Acetone	2.042	43	60217	45.94	ug/L	95
16) 2-Propanol	2.164	45	269984	925.77	ug/L	99
17) Iodomethane	2.115	142	192209	58.38	ug/L	100
18) Carbon Disulfide	2.170	76	330720	55.77	ug/L	99
19) Acetonitrile	2.255	40	65716m	249.63	ug/L	
20) Allyl Chloride	2.292	76	62700	48.50	ug/L	99
21) Methyl Acetate	2.310	43	131016	48.08	ug/L	98
22) Methylene Chloride	2.389	84	138261	48.42	ug/L	98
23) TBA	2.505	59	443968	907.11	ug/L	99
24) Acrylonitrile	2.602	53	355760	234.29	ug/L	97
25) Methyl-t-Butyl Ether	2.657	73	424705	49.80	ug/L	100
26) trans-1,2-Dichloroethene	2.645	96	124844	49.75	ug/L	98
27) 1,1-Dicethane	3.066	63	236786	51.41	ug/L	99
28) Vinyl Acetate	3.145	86	25585	43.11	ug/L #	94
29) DIPE	3.188	45	449589	56.95	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.176	53	171798	56.62	ug/L	99
31) ETBE	3.639	59	418117	55.54	ug/L	99
32) 2,2-Dichloropropane	3.779	77	152316	44.77	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	144462	49.93	ug/L	98
34) 2-Butanone	3.828	43	88778	45.56	ug/L	97
35) Propionitrile	3.889	54	147100	235.03	ug/L	99
36) Bromochloromethane	4.120	130	98165	49.36	ug/L	98
37) Methacrylonitrile	4.120	67	76189	48.79	ug/L	94
38) Tetrahydrofuran	4.212	42	57436	44.82	ug/L	99
39) Chloroform	4.279	83	228995	50.35	ug/L	100
40) 1,1,1-Trichloroethane	4.547	97	184952	51.91	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
 Data File : F5257.D
 Acq On : 27 Mar 2019 10:26 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:58:24 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	409618	54.94	ug/L	99
43) Cyclohexane	4.645	41	108670	54.05	ug/L	100
45) Carbontetrachloride	4.840	117	143981	51.15	ug/L	99
46) 1,1-Dichloropropene	4.852	75	163930	51.37	ug/L	99
48) Benzene	5.218	78	532227	50.71	ug/L	99
49) 1,2-Dichloroethane	5.260	62	185641	49.84	ug/L	96
50) Iso-Butyl Alcohol	5.260	43	190810	941.17	ug/L	99
51) n-Heptane	5.803	43	120567	46.30	ug/L	96
52) 1-Butanol	6.370	56	340331	2513.41	ug/L	100
53) Trichloroethene	6.297	130	146033	50.99	ug/L	97
54) Methylcyclohexane	6.565	55	148627	53.03	ug/L	100
55) 1,2-Dicloropropane	6.608	63	143218	50.26	ug/L	96
56) Dibromomethane	6.766	93	94867	49.93	ug/L	96
57) 1,4-Dioxane	6.846	88	57601	938.25	ug/L	95
58) Methyl Methacrylate	6.888	69	121446	49.54	ug/L	99
59) Bromodichloromethane	7.022	83	172175	51.97	ug/L	99
60) 2-Nitropropane	7.333	41	65201	90.21	ug/L	94
61) 2-Chloroethylvinyl Ether	7.486	63	21836	37.93	ug/L	99
62) cis-1,3-Dichloropropene	7.626	75	223447	51.12	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	164472	47.87	ug/L	99
65) Toluene	8.022	91	564145	50.30	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	199595	51.45	ug/L	99
67) Ethyl Methacrylate	8.504	69	208893	53.62	ug/L	97
68) 1,1,2-Trichloroethane	8.528	97	138449	48.93	ug/L	97
71) Tetrachloroethene	8.668	164	107449	47.44	ug/L	98
72) 2-Hexanone	8.863	43	123453	48.60	ug/L	98
73) 1,3-Dichloropropane	8.711	76	239974	50.22	ug/L	98
74) Dibromochloromethane	8.961	129	133743	51.17	ug/L	98
75) N-Butyl Acetate	9.052	43	241029	51.20	ug/L	99
76) 1,2-Dibromoethane	9.059	107	142843	49.87	ug/L	100
77) 3-Chlorobenzotrifluoride	9.650	180	215549	60.08	ug/L	99
78) Chlorobenzene	9.607	112	367082	49.67	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	191094	58.80	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	126830	52.63	ug/L	98
81) Ethylbenzene	9.747	106	193939	51.64	ug/L	100
82) (m+p)Xylene	9.869	106	475373	102.31	ug/L	98
83) o-Xylene	10.247	106	237742	51.72	ug/L	96
84) Styrene	10.259	104	406850	52.17	ug/L	98
85) Bromoform	10.406	173	88115	51.18	ug/L	100
86) 2-Chlorobenzotrifluoride	10.509	180	213929	59.20	ug/L	100
87) Isopropylbenzene	10.607	105	596074	52.51	ug/L	99
88) Cyclohexanone	10.656	55	590538	891.67	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	42479	46.19	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.875	83	192629	47.80	ug/L	99
92) Bromobenzene	10.845	156	166151	49.96	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	65370	47.04	ug/L	99
94) n-Propylbenzene	10.979	91	678299	51.64	ug/L	100
95) 2-Chlorotoluene	11.034	91	420217	51.05	ug/L	99
96) 3-Chlorotoluene	11.089	91	463619	57.59	ug/L	99
97) 4-Chlorotoluene	11.131	91	477969	50.33	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	489090	51.89	ug/L	99
99) tert-Butylbenzene	11.418	119	424201	51.98	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	499496	52.35	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.528	214	160429	56.13	ug/L	99
102) sec-Butylbenzene	11.607	105	615494	52.79	ug/L	100
103) p-Isopropyltoluene	11.735	119	511598	51.58	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5257.D
Acq On : 27 Mar 2019 10:26 pm
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 31 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 31 11:58:24 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	296647	49.29	ug/L	99
105) 1,4-Dclbenz	11.753	146	301679	47.71	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	146369	56.73	ug/L	100
107) 2,5-Dichlorobenzotrifl...	11.869	214	166226	56.18	ug/L	99
108) n-Butylbenzene	12.076	91	446490	51.10	ug/L	99
109) 1,2-Dclbenz	12.058	146	305989	50.07	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	46203	47.66	ug/L	94
111) Trielution Dichlorotol...	12.826	125	793466	179.12	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	223742	56.98	ug/L	97
113) Coelution Dichlorotoluene	13.149	125	576875	121.35	ug/L	98
114) 1,2,4-Tcbenzene	13.356	180	206972	49.51	ug/L	97
115) Hexachlorobt	13.509	225	82156	46.64	ug/L	98
116) Naphthalen	13.545	128	636465	49.78	ug/L	99
117) 1,2,3-Tclbenzene	13.741	180	203890	49.79	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	65116	56.47	ug/L	96
119) 2,3,6-Trichlorotoluene	14.411	159	79238	57.10	ug/L	98

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

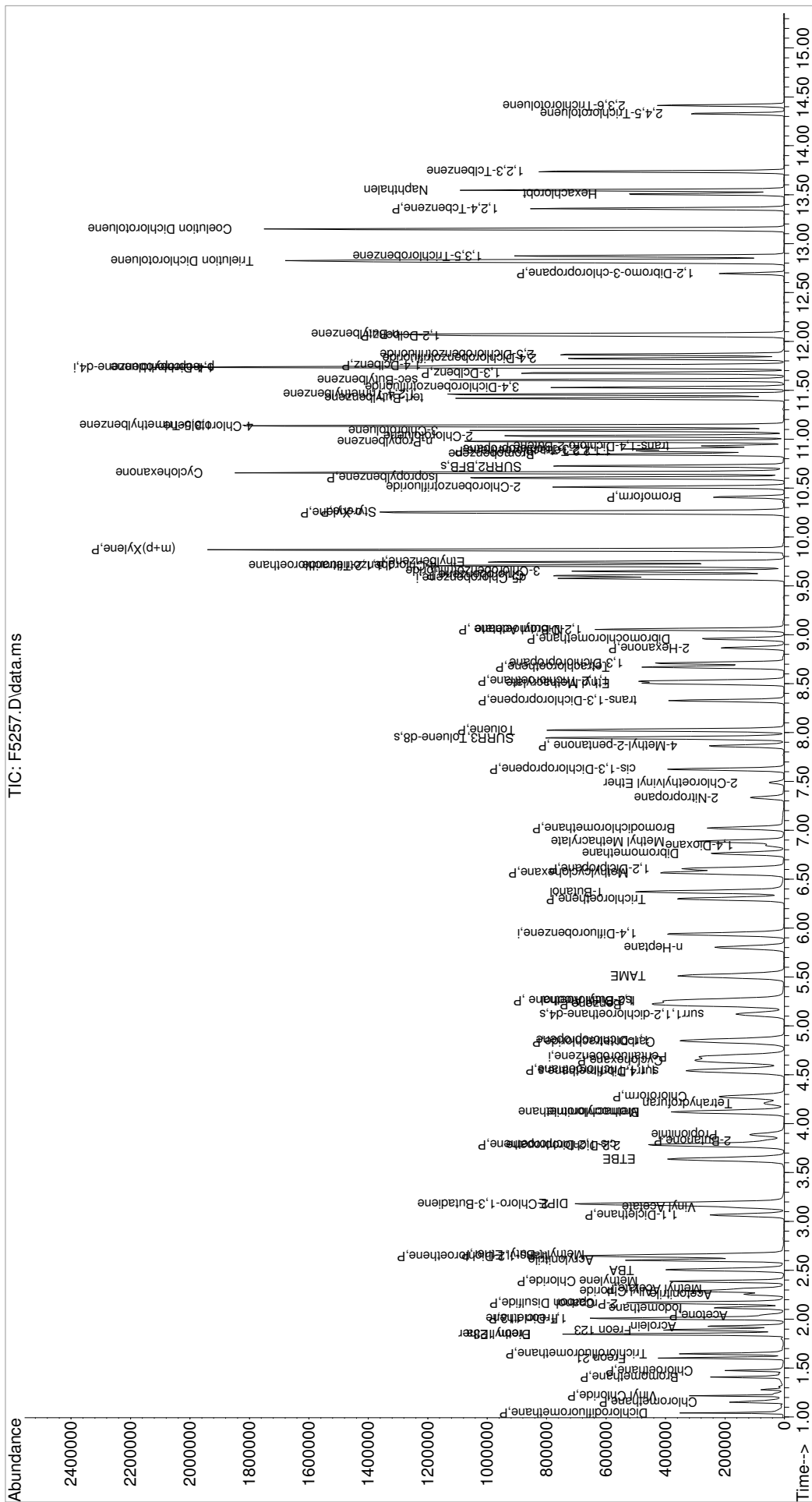
Quantitation Report (QT Reviewed)

Data Path	:	:	I:\ACQUDATA\MSV0A14\Data\032719\
Data File	:	:	F5257.D
Acq On	:	:	27 Mar 2019 10:26 pm
Operator	:	:	F.NAEGLER
Sample	:	:	CCV
Misc	:	:	
ALS Vial	:	:	31 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 31 11:58:24 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



Evaluate Continuing Calibration Report

1st *FJ* 04/01/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5289.D
 Acq On : 28 Mar 2019 11:33 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:55:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 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	50.000	50.000	0.0	104	0.00
2 P	Dichlorodifluoromethane	50.000	58.176	-16.4	110	0.00
3 P	Chloromethane	50.000	52.123	-4.2	107	0.00
4 P	Vinyl Chloride	50.000	56.591	-13.2	107	0.00
5 P	Bromomethane	50.000	52.136	-4.3	109	0.00
6 P	Chloroethane	50.000	57.430	-14.9	112	0.00
7	Freon 21	50.000	52.565	-5.1	110	0.00
8 P	Trichlorofluoromethane	50.000	56.643	-13.3	111	0.00
9	Diethyl Ether	50.000	49.659	0.7	103	0.00
10	Freon 123a	50.000	53.290	-6.6	112	0.00
11	Freon 123	50.000	52.927	-5.9	110	0.00
12	Acrolein	250.000	236.568	5.4	96	0.00
13	1,1-Dicethene	50.000	55.962	-11.9	110	0.00
14 P	Freon 113	50.000	58.497	-17.0	115	0.00
15 P	Acetone	50.000	46.830	6.3	99	0.00
16	2-Propanol	1000.000	880.106	12.0	91	0.00
17	Iodomethane	50.000	57.416	-14.8	116	0.00
18 P	Carbon Disulfide	50.000	55.314	-10.6	113	0.00
19	Acetonitrile	250.000	264.692	-5.9	108	0.00
20	Allyl Chloride	50.000	54.358	-8.7	109	0.00
21 P	Methyl Acetate	50.000	47.894	4.2	95	0.00
22 P	Methylene Chloride	50.000	49.408	1.2	104	0.00
23	TBA	1000.000	870.824	12.9	90	0.00
24	Acrylonitrile	250.000	239.632	4.1	97	0.00
25 P	Methyl-t-Butyl Ether	50.000	49.568	0.9	102	0.00
26 P	trans-1,2-Dichloroethene	50.000	53.979	-8.0	109	0.00
27 P	1,1-Dicethane	50.000	54.204	-8.4	108	0.00
28	Vinyl Acetate	50.000	52.506	-5.0	103	0.00
29	DIPE	50.000	51.372	-2.7	106	0.00
30	2-Chloro-1,3-Butadiene	50.000	54.508	-9.0	109	0.00
31	ETBE	50.000	50.011	-0.0	104	0.00
32	2,2-Dichloropropane	50.000	56.727	-13.5	114	0.00
33 P	cis-1,2-Dichloroethene	50.000	52.152	-4.3	106	0.00
34 P	2-Butanone	50.000	45.788	8.4	97	0.00
35	Propionitrile	250.000	241.369	3.5	95	0.00
36	Bromochloromethane	50.000	50.039	-0.1	102	0.00
37	Methacrylonitrile	50.000	50.011	-0.0	97	0.00
38	Tetrahydrofuran	50.000	44.336	11.3	94	0.00
39 P	Chloroform	50.000	52.331	-4.7	106	0.00
40 P	1,1,1-Trichloroethane	50.000	56.269	-12.5	110	0.00
41	TAME	50.000	49.517	1.0	102	0.00
42 i	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
43 P	Cyclohexane	50.000	54.367	-8.7	114	0.00
44 s	surr4,Dibrflmethane	50.000	49.048	1.9	104	0.00
45 P	Carbontetrachloride	50.000	56.285	-12.6	112	0.00
46	1,1-Dichloropropene	50.000	58.074	-16.1	114	0.00
47 s	surr1,1,2-dichloroethane-d4	50.000	49.315	1.4	105	0.00
48 P	Benzene	50.000	53.858	-7.7	108	0.00
49 P	1,2-Dichloroethane	50.000	51.708	-3.4	104	0.00
50	Iso-Butyl Alcohol	1000.000	924.591	7.5	93	0.00
51	n-Heptane	50.000	64.836	-29.7#	124	0.00 (1)

Evaluate Continuing Calibration Report

1st *FJ* 04/01/19
2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5289.D
 Acq On : 28 Mar 2019 11:33 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:55:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 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	1-Butanol	2500.000	2250.381	10.0	90	0.00
53 P	Trichloroethene	50.000	53.518	-7.0	104	0.00
54 P	Methylcyclohexane	50.000	57.015	-14.0	117	0.00
55 P	1,2-Dichloropropane	50.000	52.662	-5.3	106	0.00
56	Dibromomethane	50.000	51.469	-2.9	104	0.00
57	1,4-Dioxane	1000.000	913.563	8.6	92	0.00
58	Methyl Methacrylate	50.000	50.233	-0.5	97	0.00
59 P	Bromodichloromethane	50.000	53.648	-7.3	107	0.00
60	2-Nitropropane	100.000	97.910	2.1	101	0.00
61	2-Chloroethylvinyl Ether	50.000	29.938	40.1#	55	0.00 NT
62 P	cis-1,3-Dichloropropene	50.000	53.967	-7.9	105	0.00
63 P	4-Methyl-2-pentanone	50.000	47.465	5.1	96	0.00
64 s	SURR3, Toluene-d8	50.000	48.838	2.3	105	0.00
65 P	Toluene	50.000	54.090	-8.2	108	0.00
66 P	trans-1,3-Dichloropropene	50.000	53.854	-7.7	104	0.00
67	Ethyl Methacrylate	50.000	54.542	-9.1	99	0.00
68 P	1,1,2-Trichloroethane	50.000	50.101	-0.2	101	0.00
69 s	SURR2, BFB	50.000	47.802	4.4	104	0.00
70 i	d5-Chlorobenzene	50.000	50.000	0.0	104	0.00
71 P	Tetrachloroethene	50.000	53.235	-6.5	111	0.00
72 P	2-Hexanone	50.000	48.567	2.9	96	0.00
73	1,3-Dichloropropane	50.000	50.908	-1.8	102	0.00
74 P	Dibromochloromethane	50.000	52.443	-4.9	103	0.00
75	N-Butyl Acetate	50.000	49.103	1.8	96	0.00
76 P	1,2-Dibromoethane	50.000	51.356	-2.7	101	0.00
77	3-Chlorobenzotrifluoride	50.000	54.583	-9.2	117	0.00
78 P	Chlorobenzene	50.000	52.150	-4.3	107	0.00
79	4-Chlorobenzotrifluoride	50.000	53.771	-7.5	114	0.00
80	1,1,1,2-Tetrachloroethane	50.000	53.845	-7.7	104	0.00
81 P	Ethylbenzene	50.000	55.905	-11.8	111	0.00
82 P	(m+p)Xylene	100.000	112.410	-12.4	110	0.00
83 P	o-Xylene	50.000	55.537	-11.1	109	0.00
84 P	Styrene	50.000	54.765	-9.5	105	0.00
85 P	Bromoform	50.000	51.942	-3.9	102	0.00
86	2-Chlorobenzotrifluoride	50.000	52.443	-4.9	112	0.00
87 P	Isopropylbenzene	50.000	57.906	-15.8	112	0.00
88	Cyclohexanone	1000.000	987.887	1.2	95	0.00
89	trans-1,4-Dichloro-2-Butene	50.000	48.093	3.8	95	0.00
90 i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
91 P	1,1,2,2-Tetrachloroethane	50.000	51.645	-3.3	107	0.00
92	Bromobenzene	50.000	51.354	-2.7	104	0.00
93	1,2,3-Trichloropropane	50.000	48.390	3.2	97	0.00
94	n-Propylbenzene	50.000	58.816	-17.6	113	0.00
95	2-Chlorotoluene	50.000	55.494	-11.0	110	0.00
96	3-Chlorotoluene	50.000	52.232	-4.5	110	0.00
97	4-Chlorotoluene	50.000	55.221	-10.4	110	0.00
98	1,3,5-Trimethylbenzene	50.000	57.409	-14.8	111	0.00
99	tert-Butylbenzene	50.000	57.726	-15.5	112	0.00
100	1,2,4-Trimethylbenzene	50.000	57.224	-14.4	110	0.00
101	3,4-Dichlorobenzotrifluorid	50.000	53.526	-7.1	112	0.00

Evaluate Continuing Calibration Report

 1st *FJ* 04/01/19
 2nd *RL* 04/02/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5289.D
 Acq On : 28 Mar 2019 11:33 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:55:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 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	sec-Butylbenzene	50.000	60.254	-20.5#	115	0.00	NT
103	p-Isopropyltoluene	50.000	59.406	-18.8	114	0.00	
104 P	1,3-Dclbenz	50.000	53.595	-7.2	108	0.00	
105 P	1,4-Dclbenz	50.000	51.903	-3.8	108	0.00	
106	2,4-Dichlorobenzotrifluorid	50.000	53.679	-7.4	111	0.00	
107	2,5-Dichlorobenzotrifluorid	50.000	53.091	-6.2	111	0.00	
108	n-Butylbenzene	50.000	60.181	-20.4#	117	0.00	NT
109 P	1,2-Dclbenz	50.000	51.915	-3.8	104	0.00	
110 P	1,2-Dibromo-3-chloropropane	50.000	49.020	2.0	96	0.00	
111	Trielution Dichlorotoluene	150.000	167.145	-11.4	110	0.00	
112	1,3,5-Trichlorobenzene	50.000	53.319	-6.6	107	0.00	
113	Coelution Dichlorotoluene	100.000	113.879	-13.9	108	0.00	
114 P	1,2,4-Tcbenzene	50.000	52.997	-6.0	107	0.00	
115	Hexachlorobt	50.000	54.218	-8.4	112	0.00	
116	Naphthalen	50.000	51.195	-2.4	99	0.00	
117	1,2,3-Tclbenzene	50.000	51.859	-3.7	103	0.00	
118	2,4,5-Trichlorotoluene	50.000	56.529	-13.1	109	0.00	
119	2,3,6-Trichlorotoluene	50.000	56.715	-13.4	109	0.00	

(#)= Out of Range

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

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5289.D
 Acq On : 28 Mar 2019 11:33 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:55:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.681	168	278652	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	412817	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	364901	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	198678	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	134926	49.05	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.10%	
47) surr1,1,2-dichloroetha...	5.114	65	158977	49.31	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	98.62%	
64) SURR3,Toluene-d8	7.943	98	536257	48.84	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.68%	
69) SURR2,BFB	10.723	95	203263	47.80	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	189832	58.18	ug/L	98
3) Chloromethane	1.151	50	190465	52.12	ug/L	99
4) Vinyl Chloride	1.218	62	186549	56.59	ug/L	98
5) Bromomethane	1.407	94	94138	52.14	ug/L	99
6) Chloroethane	1.474	64	110995	57.43	ug/L	96
7) Freon 21	1.603	67	244882	52.57	ug/L	99
8) Trichlorofluoromethane	1.645	101	209096	56.64	ug/L	98
9) Diethyl Ether	1.846	59	129550	49.66	ug/L	100
10) Freon 123a	1.846	67	153885	53.29	ug/L	97
11) Freon 123	1.889	83	174239	52.93	ug/L	99
12) Acrolein	1.926	56	169755	236.57	ug/L	99
13) 1,1-Dicethene	2.005	96	130254	55.96	ug/L	100
14) Freon 113	2.011	101	123440	58.50	ug/L	100
15) Acetone	2.041	43	63781	46.83	ug/L	98
16) 2-Propanol	2.163	45	266665	880.11	ug/L	98
17) Iodomethane	2.115	142	196118	57.42	ug/L	100
18) Carbon Disulfide	2.169	76	340799	55.31	ug/L	99
19) Acetonitrile	2.255	40	72396	264.69	ug/L	100
20) Allyl Chloride	2.285	76	73013	54.36	ug/L	90
21) Methyl Acetate	2.310	43	135607	47.89	ug/L	99
22) Methylene Chloride	2.389	84	146593	49.41	ug/L	99
23) TBA	2.505	59	442810	870.82	ug/L	98
24) Acrylonitrile	2.602	53	378041	239.63	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	439211	49.57	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	140735	53.98	ug/L	99
27) 1,1-Dicethane	3.066	63	259402	54.20	ug/L	100
28) Vinyl Acetate	3.145	86	32373	52.51	ug/L #	92
29) DIPE	3.181	45	421349	51.37	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	171840	54.51	ug/L	98
31) ETBE	3.633	59	391145	50.01	ug/L	99
32) 2,2-Dichloropropane	3.779	77	200514	56.73	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	156781	52.15	ug/L	98
34) 2-Butanone	3.822	43	92691	45.79	ug/L	96
35) Propionitrile	3.889	54	156955	241.37	ug/L	99
36) Bromochloromethane	4.120	130	103402	50.04	ug/L	98
37) Methacrylonitrile	4.120	67	81141	50.01	ug/L	96
38) Tetrahydrofuran	4.206	42	59032	44.34	ug/L	100
39) Chloroform	4.273	83	247266	52.33	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	208284	56.27	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5289.D
 Acq On : 28 Mar 2019 11:33 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:55:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	383586	49.52	ug/L	99
43) Cyclohexane	4.638	41	113454	54.37	ug/L	98
45) Carbontetrachloride	4.840	117	164440	56.29	ug/L	97
46) 1,1-Dichloropropene	4.852	75	192373	58.07	ug/L	99
48) Benzene	5.218	78	586771	53.86	ug/L	99
49) 1,2-Dichloroethane	5.254	62	199904	51.71	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	194563	924.59	ug/L	96
51) n-Heptane	5.803	43	175237	64.84	ug/L	95
52) 1-Butanol	6.370	56	316281	2250.38	ug/L	99
53) Trichloroethene	6.297	130	159101	53.52	ug/L	98
54) Methylcyclohexane	6.565	55	165874	57.01	ug/L	98
55) 1,2-Dichloropropane	6.608	63	155752	52.66	ug/L	100
56) Dibromomethane	6.760	93	101513	51.47	ug/L	93
57) 1,4-Dioxane	6.845	88	58214	913.56	ug/L	97
58) Methyl Methacrylate	6.888	69	127808	50.23	ug/L	99
59) Bromodichloromethane	7.022	83	184474	53.65	ug/L	99
60) 2-Nitropropane	7.333	41	73452	97.91	ug/L	97
61) 2-Chloroethylvinyl Ether	7.486	63	17356	29.94	ug/L	98
62) cis-1,3-Dichloropropene	7.620	75	244865	53.97	ug/L	99
63) 4-Methyl-2-pentanone	7.857	43	169280	47.47	ug/L	98
65) Toluene	8.022	91	629706	54.09	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	216865	53.85	ug/L	98
67) Ethyl Methacrylate	8.498	69	220570	54.54	ug/L	94
68) 1,1,2-Trichloroethane	8.522	97	147131	50.10	ug/L	99
71) Tetrachloroethene	8.668	164	126164	53.24	ug/L	97
72) 2-Hexanone	8.863	43	129097	48.57	ug/L	96
73) 1,3-Dichloropropane	8.711	76	254565	50.91	ug/L	99
74) Dibromochloromethane	8.955	129	143447	52.44	ug/L	99
75) N-Butyl Acetate	9.052	43	241910	49.10	ug/L	99
76) 1,2-Dibromoethane	9.052	107	153947	51.36	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	204910	54.58	ug/L	99
78) Chlorobenzene	9.607	112	403284	52.15	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	182860	53.77	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	135777	53.85	ug/L	99
81) Ethylbenzene	9.741	106	219705	55.90	ug/L	93
82) (m+p)Xylene	9.869	106	546560	112.41	ug/L	99
83) o-Xylene	10.247	106	267139	55.54	ug/L	96
84) Styrene	10.259	104	446955	54.76	ug/L	99
85) Bromoform	10.406	173	93735	51.94	ug/L	99
86) 2-Chlorobenzotrifluoride	10.509	180	198314	52.44	ug/L	98
87) Isopropylbenzene	10.601	105	687864	57.91	ug/L	100
88) Cyclohexanone	10.656	55	684655	987.89	ug/L	100
89) trans-1,4-Dichloro-2-B...	10.930	53	46288	48.09	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.875	83	215873	51.64	ug/L	98
92) Bromobenzene	10.845	156	177174	51.35	ug/L	99
93) 1,2,3-Trichloropropane	10.899	110	69763	48.39	ug/L	99
94) n-Propylbenzene	10.973	91	801422	58.82	ug/L	97
95) 2-Chlorotoluene	11.034	91	473883	55.49	ug/L	99
96) 3-Chlorotoluene	11.088	91	436205	52.23	ug/L	97
97) 4-Chlorotoluene	11.131	91	544014	55.22	ug/L	100
98) 1,3,5-Trimethylbenzene	11.137	105	561289	57.41	ug/L	99
99) tert-Butylbenzene	11.418	119	488684	57.73	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	566356	57.22	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.527	214	158710	53.53	ug/L	99
102) sec-Butylbenzene	11.607	105	728749	60.25	ug/L	99
103) p-Isopropyltoluene	11.735	119	611215	59.41	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
Data File : F5289.D
Acq On : 28 Mar 2019 11:33 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Apr 01 16:55:20 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	334627	53.60	ug/L	98
105) 1,4-Dclbenz	11.753	146	340474	51.90	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	143670	53.68	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	162948	53.09	ug/L	99
108) n-Butylbenzene	12.076	91	545443	60.18	ug/L	98
109) 1,2-Dclbenz	12.058	146	329141	51.92	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.692	157	49412	49.02	ug/L	99
111) Trielution Dichlorotol...	12.826	125	768060	167.15	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	217178	53.32	ug/L	99
113) Coelution Dichlorotoluene	13.149	125	561555	113.88	ug/L	99
114) 1,2,4-Tcbenzene	13.356	180	230373	53.00	ug/L	97
115) Hexachlorobt	13.509	225	99076	54.22	ug/L	98
116) Naphthalen	13.545	128	680014	51.19	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	220673	51.86	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	67644	56.53	ug/L	99
119) 2,3,6-Trichlorotoluene	14.411	159	81397	56.71	ug/L	97

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

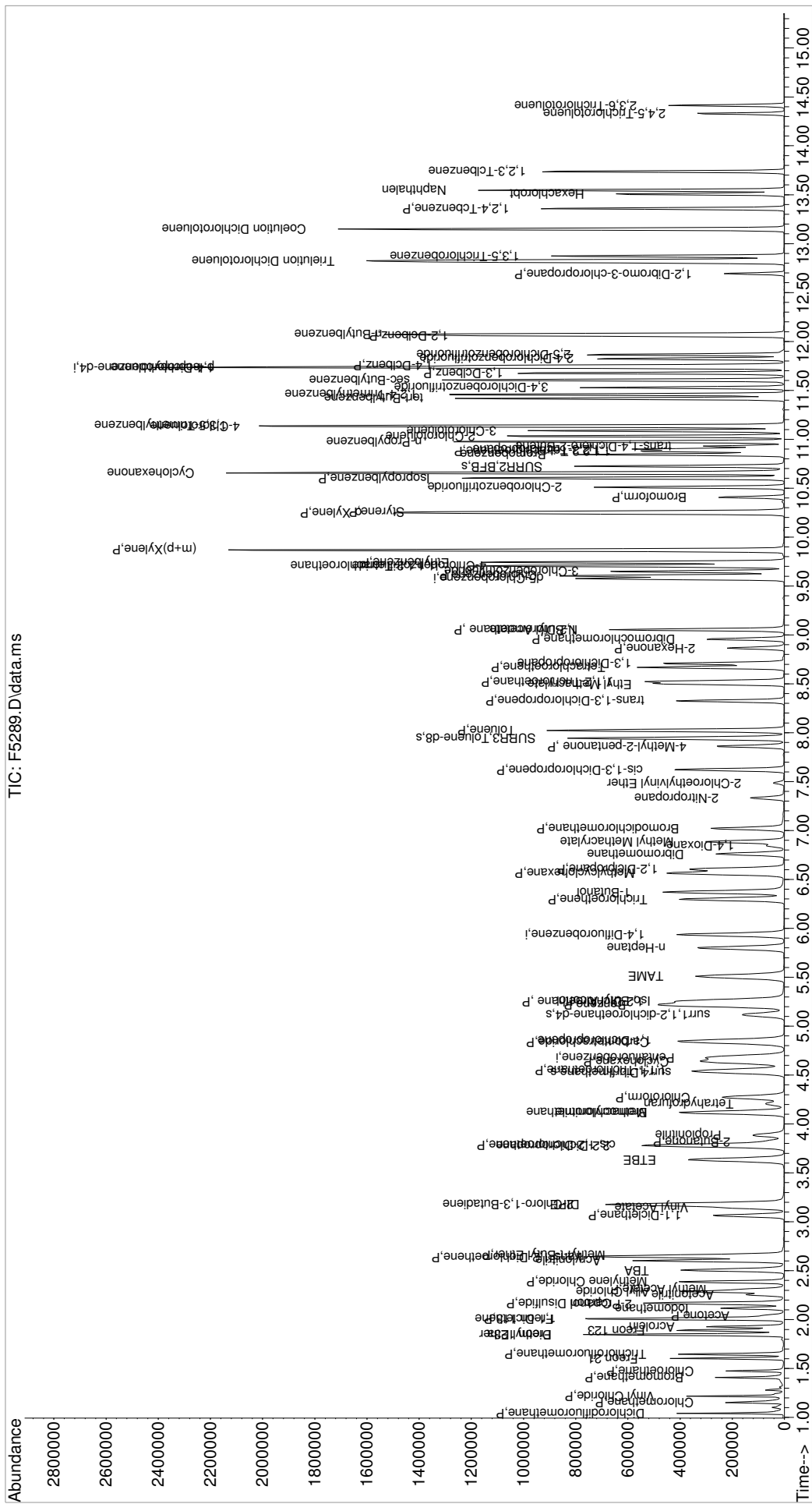
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\032819\
Data File	:	F5289.D
Acq On	:	28 Mar 2019 11:33 am
Operator	:	F.NAEGLER
Sample	:	CCV
Misc	:	
ALS Vial	:	1 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 16:55:20 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

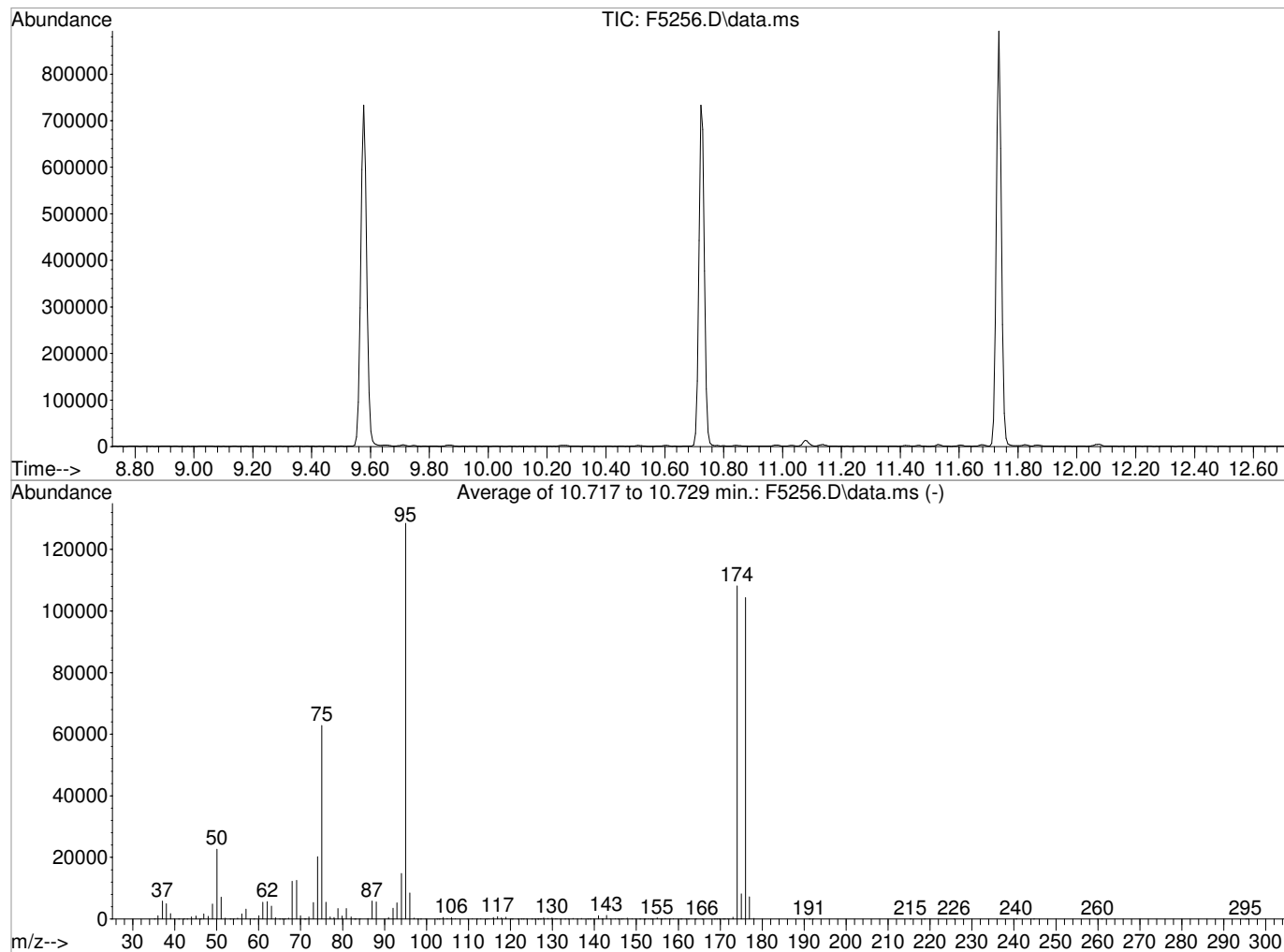


Data Path : I:\ACQUDATA\MSVOA14\Data\032719\
Data File : F5256.D
Acq On : 27 Mar 2019 10:03 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Tue Mar 26 16:08:17 2019



AutoFind: Scans 1596, 1597, 1598; Background Corrected with Scan 1591

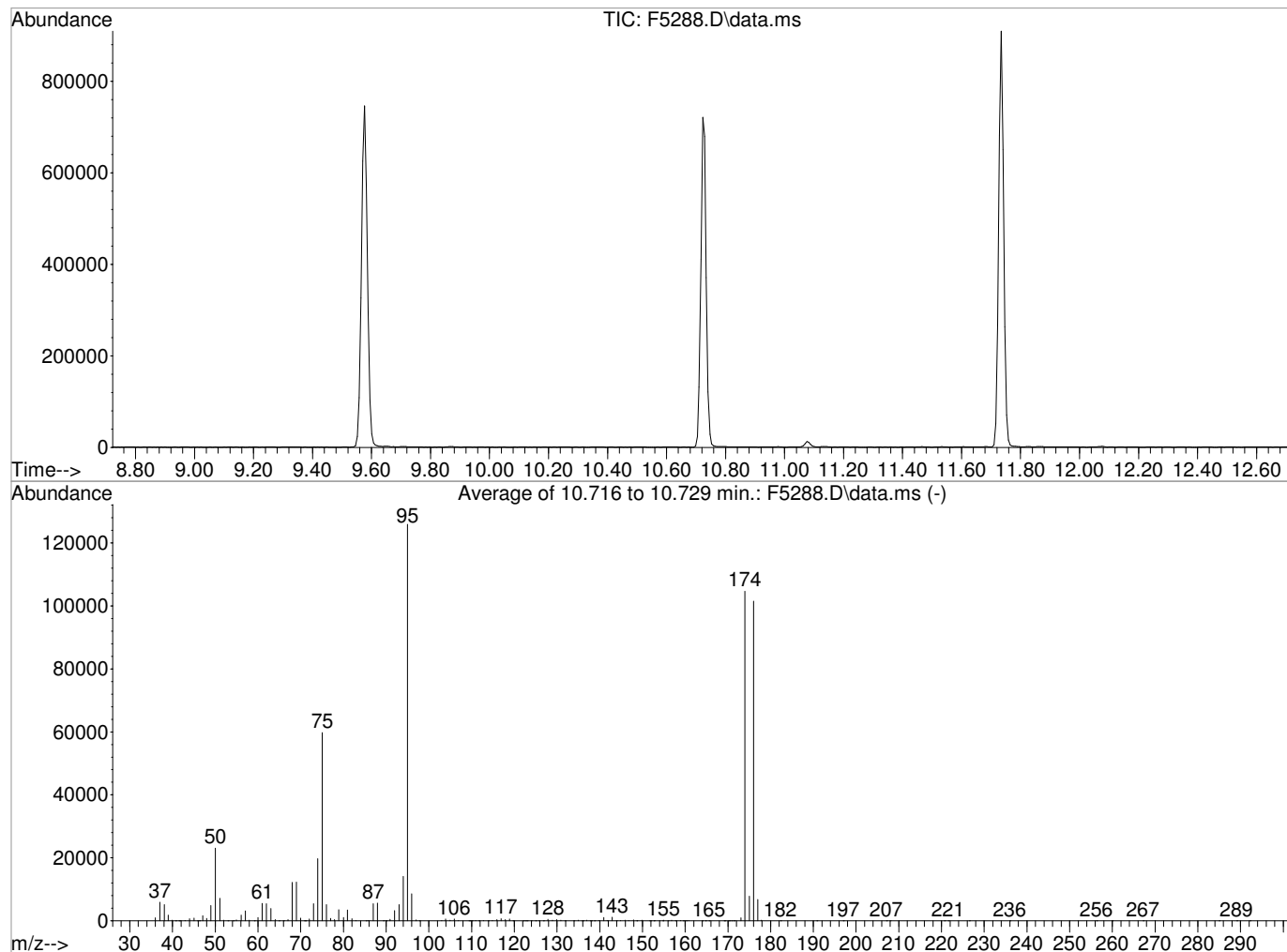
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	22640	PASS
75	95	30	60	48.9	62848	PASS
95	95	100	100	100.0	128501	PASS
96	95	5	9	6.6	8454	PASS
173	174	0.00	2	0.6	611	PASS
174	95	50	120	84.2	108136	PASS
175	174	5	9	7.6	8199	PASS
176	174	95	101	96.5	104389	PASS
177	176	5	9	6.9	7255	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\032819\
 Data File : F5288.D
 Acq On : 28 Mar 2019 10:59 am
 Operator : F.NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W032619.m
 Title : MS#14 - 8260 WATERS 5mL Purge
 Last Update : Tue Mar 26 16:08:17 2019



AutoFind: Scans 1596, 1597, 1598; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	23115	PASS
75	95	30	60	47.5	59779	PASS
95	95	100	100	100.0	125923	PASS
96	95	5	9	6.8	8562	PASS
173	174	0.00	2	0.9	927	PASS
174	95	50	120	83.2	104709	PASS
175	174	5	9	7.4	7793	PASS
176	174	95	101	96.9	101504	PASS
177	176	5	9	6.7	6817	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5222.D
 Acq On : 26 Mar 2019 5:20 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 30 14:51:07 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	285840	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	421016	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	369164	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	202827	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	141224	50.34	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.68%	
47) surr1,1,2-dichloroetha...	5.120	65	164859	50.14	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.28%	
64) SURR3,Toluene-d8	7.943	98	555566	49.61	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.22%	
69) SURR2,BFB	10.723	95	213309	49.19	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.38%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	193649	57.85	ug/L	99
3) Chloromethane	1.152	50	188294	50.23	ug/L	96
4) Vinyl Chloride	1.219	62	187042	55.31	ug/L	99
5) Bromomethane	1.408	94	87822m	46.01	ug/L	
6) Chloroethane	1.475	64	95801	48.32	ug/L	97
7) Freon 21	1.603	67	247002	51.69	ug/L	99
8) Trichlorofluoromethane	1.645	101	214504	56.65	ug/L	100
9) Diethyl Ether	1.847	59	136259	50.92	ug/L	99
10) Freon 123a	1.847	67	162640	54.91	ug/L	96
11) Freon 123	1.889	83	207870	61.55	ug/L	99
12) Acrolein	1.932	56	73264	99.53	ug/L	99
13) 1,1-Dicethene	2.005	96	134951	56.52	ug/L	98
14) Freon 113	2.011	101	126838	58.60	ug/L	99
15) Acetone	2.042	43	69017	49.40	ug/L	99
16) 2-Propanol	2.164	45	327623	1054.10	ug/L	99
17) Iodomethane	2.115	142	181506	52.20	ug/L	100
18) Carbon Disulfide	2.170	76	363818	57.57	ug/L	99
19) Acetonitrile	2.255	40	78209m	278.75	ug/L	
20) Allyl Chloride	2.292	76	78125	56.70	ug/L	96
21) Methyl Acetate	2.310	43	151739	52.24	ug/L	97
22) Methylene Chloride	2.389	84	149331	49.07	ug/L	99
23) TBA	2.511	59	553580	1061.29	ug/L	99
24) Acrylonitrile	2.602	53	415248	256.60	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	477060	52.49	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	144309	53.96	ug/L	99
27) 1,1-Dicethane	3.066	63	263679	53.71	ug/L	99
28) Vinyl Acetate	3.151	86	38240	60.46	ug/L	# 92
29) DIPE	3.182	45	424125	50.41	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.176	53	181288	56.06	ug/L	98
31) ETBE	3.639	59	378579	47.19	ug/L	99
32) 2,2-Dichloropropane	3.779	77	207081	57.11	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	161440	52.35	ug/L	100
34) 2-Butanone	3.828	43	103430	49.81	ug/L	92
35) Propionitrile	3.889	54	175152	262.58	ug/L	100
36) Bromochloromethane	4.120	130	103235	48.70	ug/L	97
37) Methacrylonitrile	4.120	67	86794	52.15	ug/L	97
38) Tetrahydrofuran	4.206	42	67902	49.72	ug/L	100
39) Chloroform	4.279	83	251168	51.82	ug/L	98
40) 1,1,1-Trichloroethane	4.547	97	215274	56.69	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5222.D
 Acq On : 26 Mar 2019 5:20 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 30 14:51:07 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	409690	51.56	ug/L	98
43) Cyclohexane	4.645	41	119427	56.11	ug/L	99
45) Carbontetrachloride	4.840	117	168193	56.45	ug/L	99
46) 1,1-Dichloropropene	4.852	75	196140	58.06	ug/L	99
48) Benzene	5.218	78	578899	52.10	ug/L	99
49) 1,2-Dichloroethane	5.260	62	197248	50.03	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	226277	1054.36	ug/L	95
51) n-Heptane	5.803	43	165542	60.06	ug/L	95
52) 1-Butanol	6.376	56	366054	2553.80	ug/L	99
53) Trichloroethene	6.303	130	161339	53.21	ug/L	99
54) Methylcyclohexane	6.565	55	171757	57.89	ug/L	94
55) 1,2-Dichloropropane	6.608	63	156724	51.96	ug/L	98
56) Dibromomethane	6.760	93	98892	49.16	ug/L	94
57) 1,4-Dioxane	6.852	88	68365	1051.97	ug/L	97
58) Methyl Methacrylate	6.888	69	140326	54.08	ug/L	97
59) Bromodichloromethane	7.022	83	180166	51.37	ug/L	98
60) 2-Nitropropane	7.333	41	78244	102.27	ug/L	95
61) 2-Chloroethylvinyl Ether	7.486	63	33055	51.65	ug/L	100
62) cis-1,3-Dichloropropene	7.626	75	245016	52.95	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	187075	51.43	ug/L	99
65) Toluene	8.022	91	621997	52.39	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	220868	53.78	ug/L	98
67) Ethyl Methacrylate	8.504	69	238768	57.89	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	146340	48.86	ug/L	98
71) Tetrachloroethene	8.668	164	123277	51.42	ug/L	93
72) 2-Hexanone	8.863	43	139805	51.99	ug/L	97
73) 1,3-Dichloropropane	8.711	76	255401	50.49	ug/L	98
74) Dibromochloromethane	8.961	129	141060	50.97	ug/L	97
75) N-Butyl Acetate	9.052	43	279827	56.14	ug/L	99
76) 1,2-Dibromoethane	9.059	107	153186	50.51	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	208591	54.92	ug/L	99
78) Chlorobenzene	9.607	112	400029	51.13	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	186355	54.17	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.705	131	138854	54.43	ug/L	98
81) Ethylbenzene	9.741	106	221478	55.71	ug/L	100
82) (m+p)Xylene	9.869	106	533395	108.44	ug/L	98
83) o-Xylene	10.247	106	260826	53.60	ug/L	99
84) Styrene	10.259	104	440264	53.32	ug/L	99
85) Bromoform	10.406	173	93193	51.13	ug/L	100
86) 2-Chlorobenzotrifluoride	10.509	180	200962	52.53	ug/L	100
87) Isopropylbenzene	10.607	105	671612	55.88	ug/L	99
88) Cyclohexanone	10.656	55	723801	1032.31	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	53025	54.46	ug/L	98
91) 1,1,2,2-Tetrachloroethane	10.875	83	214650	50.30	ug/L	99
92) Bromobenzene	10.845	156	174305	49.49	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	70282	47.75	ug/L	96
94) n-Propylbenzene	10.979	91	774023	55.64	ug/L	99
95) 2-Chlorotoluene	11.034	91	458087	52.55	ug/L	99
96) 3-Chlorotoluene	11.089	91	428742	50.29	ug/L	99
97) 4-Chlorotoluene	11.131	91	519988	51.70	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	549483	55.05	ug/L	99
99) tert-Butylbenzene	11.418	119	474448	54.90	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	556778	55.11	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.528	214	159745	52.77	ug/L	99
102) sec-Butylbenzene	11.607	105	697170	56.46	ug/L	100
103) p-Isopropyltoluene	11.735	119	582233	55.43	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5222.D
Acq On : 26 Mar 2019 5:20 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 30 14:51:07 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	317404	49.80	ug/L	100
105) 1,4-Dclbenz	11.753	146	320146	47.81	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	143739	52.61	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.863	214	162488	51.86	ug/L	95
108) n-Butylbenzene	12.070	91	523893	56.62	ug/L	96
109) 1,2-Dclbenz	12.058	146	313507	48.44	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.698	157	51811	50.24	ug/L	91
111) Trielution Dichlorotol...	12.826	125	750386	159.96	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	213271	51.29	ug/L	100
113) Coelution Dichlorotoluene	13.149	125	543287	107.92	ug/L	100
114) 1,2,4-Tcbenzene	13.356	180	224648	50.70	ug/L	97
115) Hexachlorobt	13.509	225	96670	51.82	ug/L	98
116) Naphthalen	13.545	128	686404	50.65	ug/L	100
117) 1,2,3-Tclbenzene	13.734	180	215613	49.72	ug/L	99
118) 2,4,5-Trichlorotoluene	14.326	159	76421	60.60	ug/L	97
119) 2,3,6-Trichlorotoluene	14.411	159	71689	51.13	ug/L	97

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

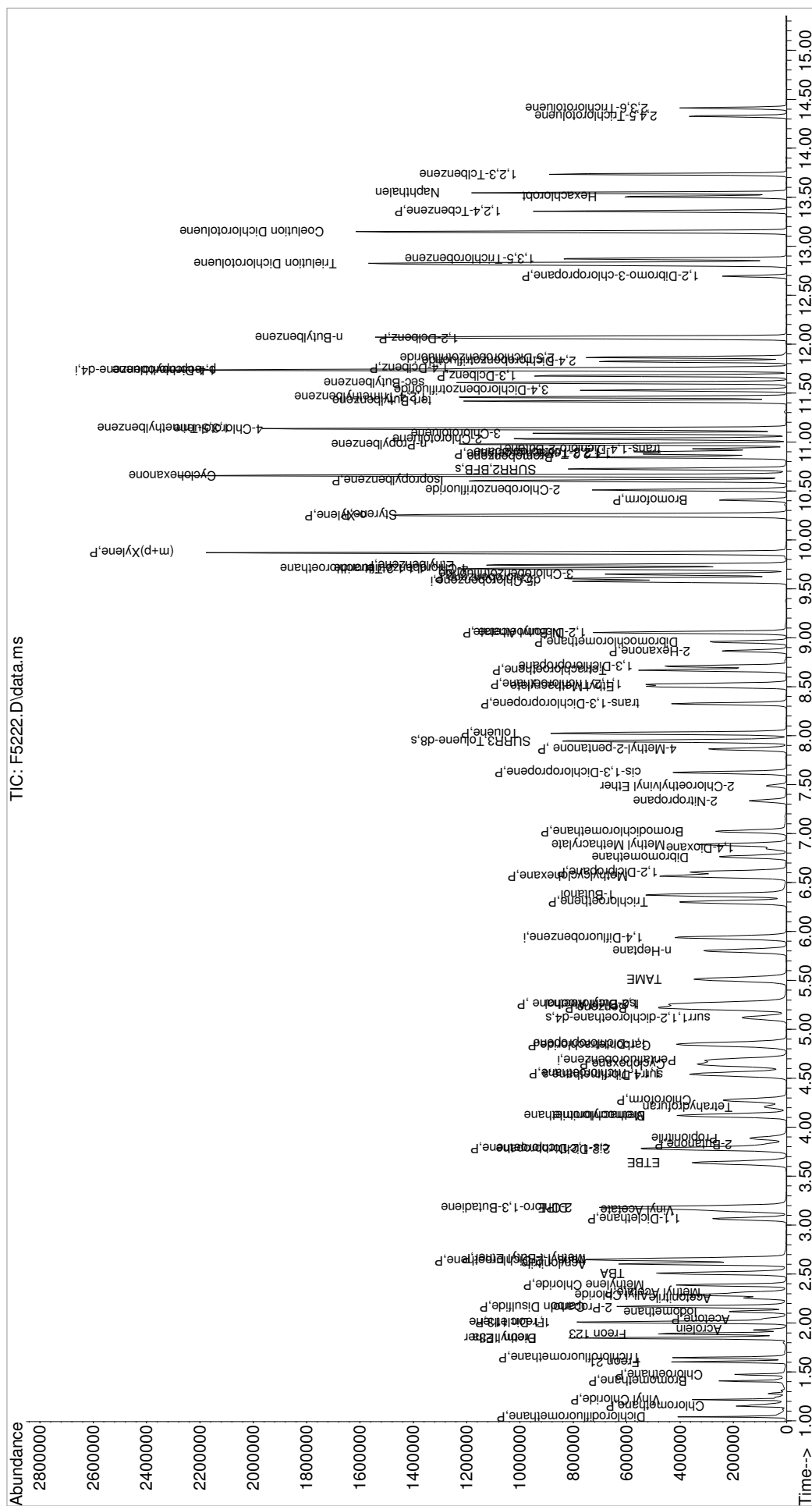
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5222.D
Acq On	:	26 Mar 2019 5:20 pm
Operator	:	F.NAEGLER
Sample	:	50 PPB ICV
Misc	:	
ALS Vial	:	14 Sample Multiplier: 1

Inst : MSV0A14

ALS vial : 14 Sample Multiplier: 1

Quant Time: Mar 30 14:51:07 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration

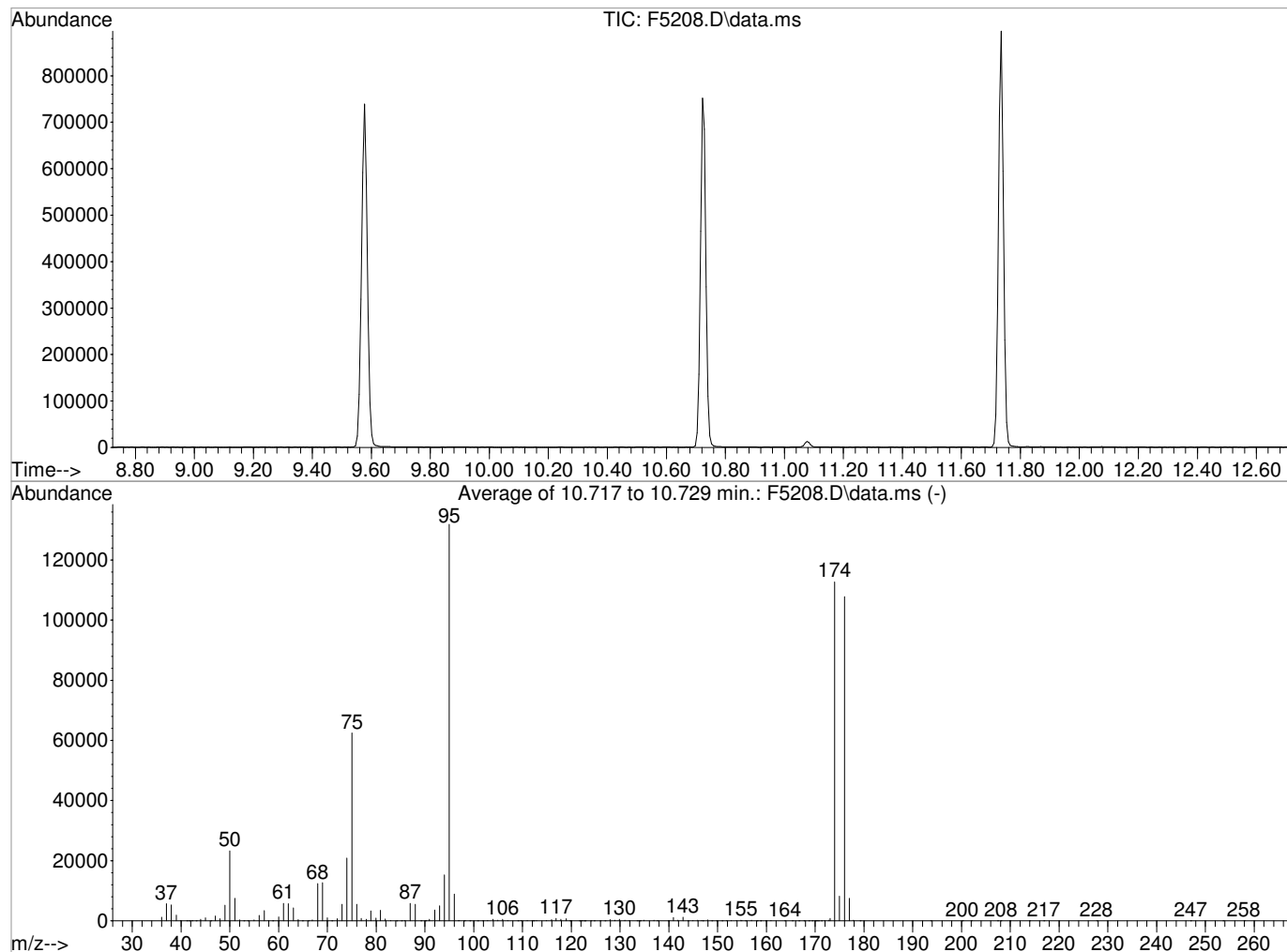


Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5208.D
Acq On : 26 Mar 2019 11:02 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : C:\msdchem\1\METHODS\W032619.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Tue Mar 26 16:08:17 2019



AutoFind: Scans 1596, 1597, 1598; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	23237	PASS
75	95	30	60	47.4	62467	PASS
95	95	100	100	100.0	131880	PASS
96	95	5	9	6.7	8865	PASS
173	174	0.00	2	0.7	755	PASS
174	95	50	120	85.5	112733	PASS
175	174	5	9	7.3	8187	PASS
176	174	95	101	95.7	107848	PASS
177	176	5	9	6.9	7451	PASS

Data Path : I:\ACQUDATA\MSV0A14\Data\032619\
 Data File : F5209.D
 Acq On : 26 Mar 2019 11:47 am
 Operator : F.NAEGLER
 Sample : ICAL BLK
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSV0A14

Quant Time: Mar 30 14:49:15 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

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

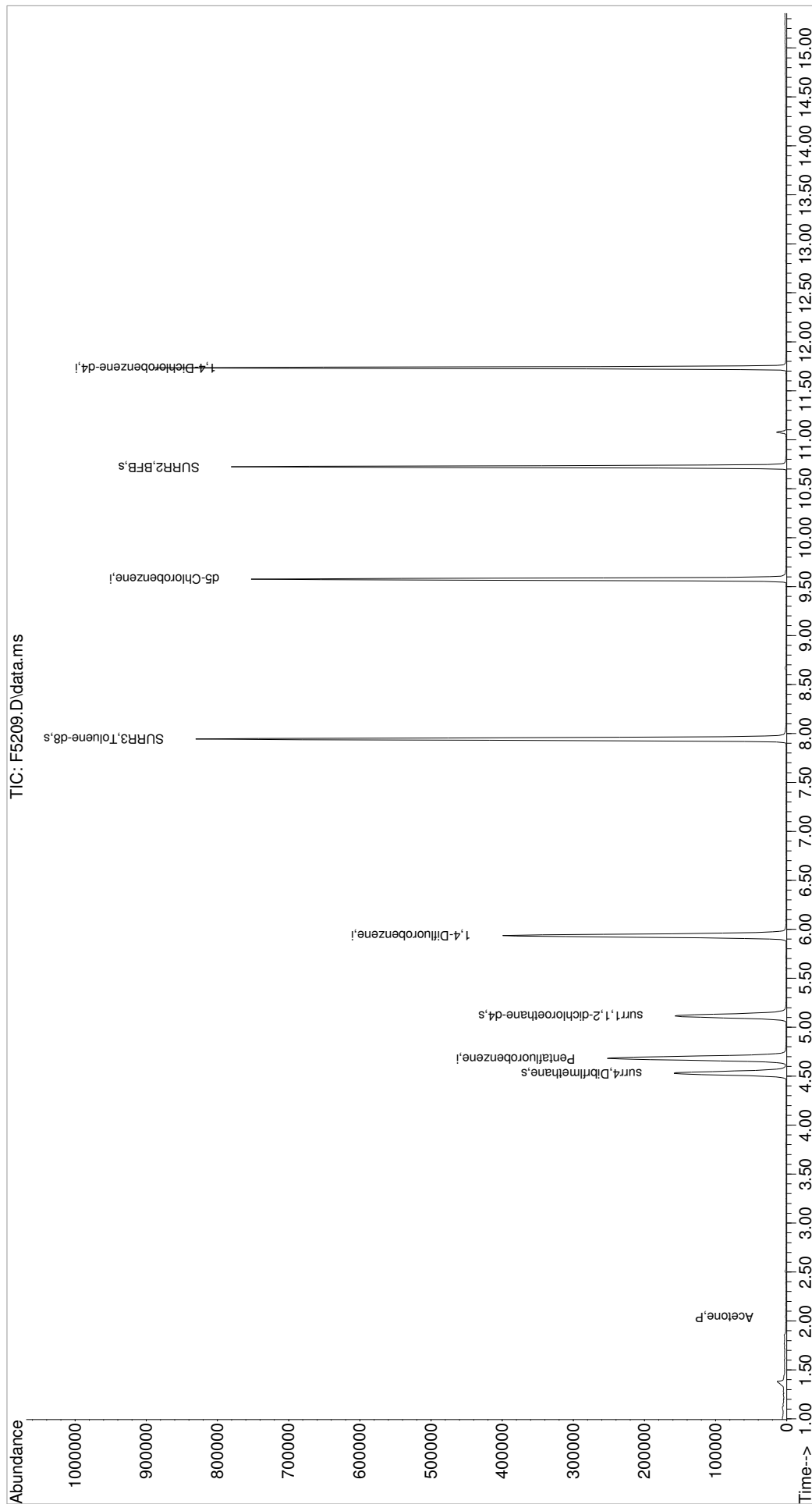
Internal Standards						
1) Pentafluorobenzene	4.681	168	263872	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	400844	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	348408	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	179807	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	131361	49.18	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.36%	
47) surr1,1,2-dichloroetha...	5.114	65	155139	49.56	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.12%	
64) SURR3,Toluene-d8	7.943	98	538730	50.53	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.06%	
69) SURR2,BFB	10.723	95	200123	48.47	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.94%	
Target Compounds						
5) Bromomethane	1.413	94	374	Below Cal	Qvalue #	76
15) Acetone	2.041	43	501	0.39 ug/L		96

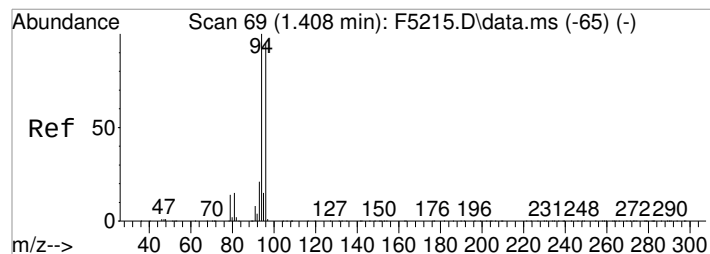
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSV0A14\Data\032619\
 Data File : F5209.D
 Acq On : 26 Mar 2019 11:47 am
 Operator : F.NAEGLER
 Sample : ICAL BLK
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

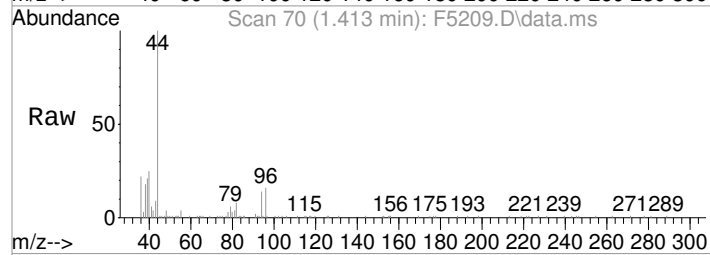
Inst : MSV0A14

Quant Time: Mar 30 14:49:15 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 Qlast Update : Tue Mar 26 16:08:17 2019
 Response via : Initial Calibration

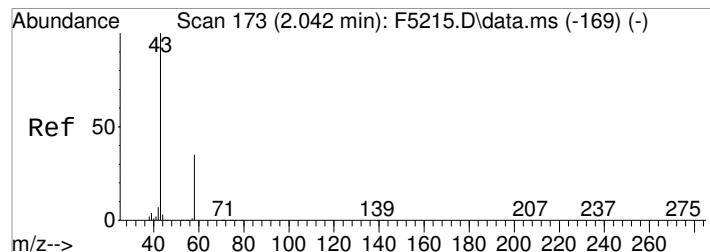
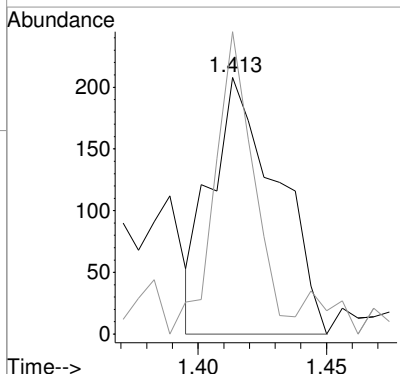
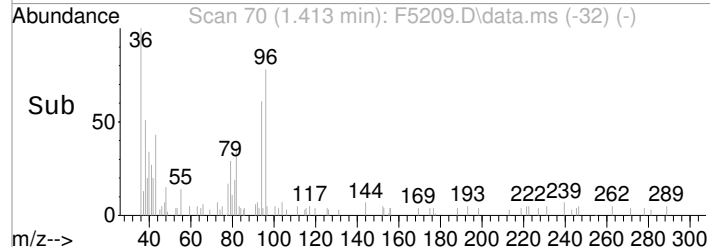




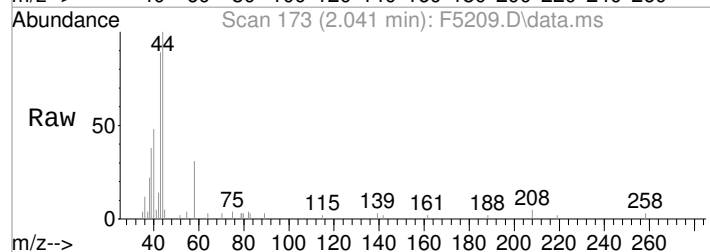
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.413 min Scan# 70
 Delta R.T. 0.006 min
 Lab File: F5209.D
 Acq: 26 Mar 2019 11:47 am



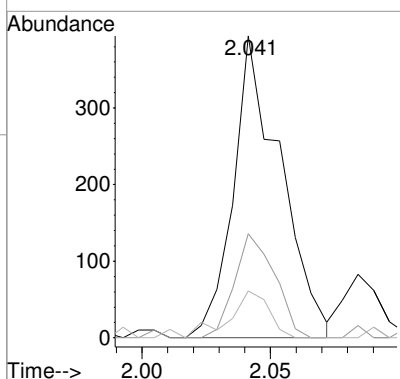
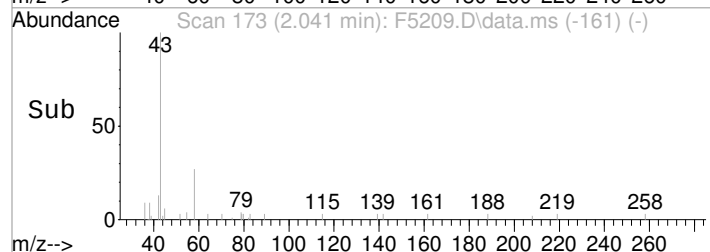
Tgt Ion: 94 Resp: 374
 Ion Ratio Lower Upper
 94 100
 96 117.8 74.5 114.5#



#15
 Acetone
 Concen: 0.39 ug/L
 RT: 2.041 min Scan# 173
 Delta R.T. 0.000 min
 Lab File: F5209.D
 Acq: 26 Mar 2019 11:47 am



Tgt Ion: 43 Resp: 501
 Ion Ratio Lower Upper
 43 100
 58 34.5 14.7 54.7
 42 15.5 0.0 27.4



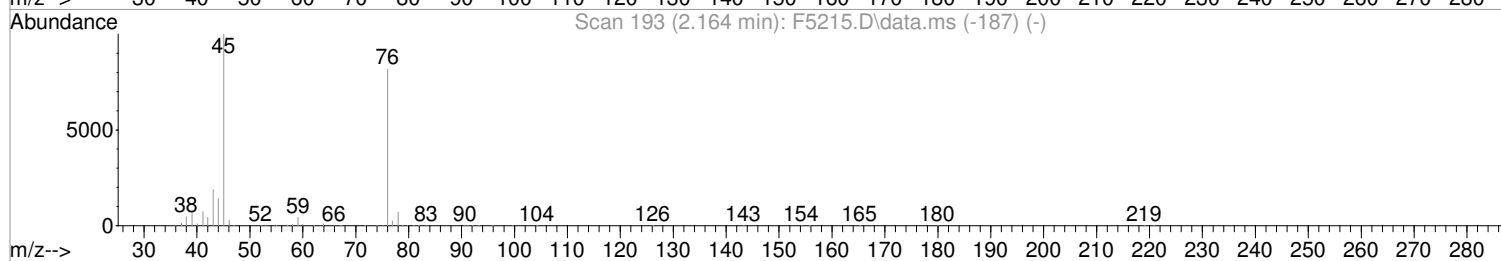
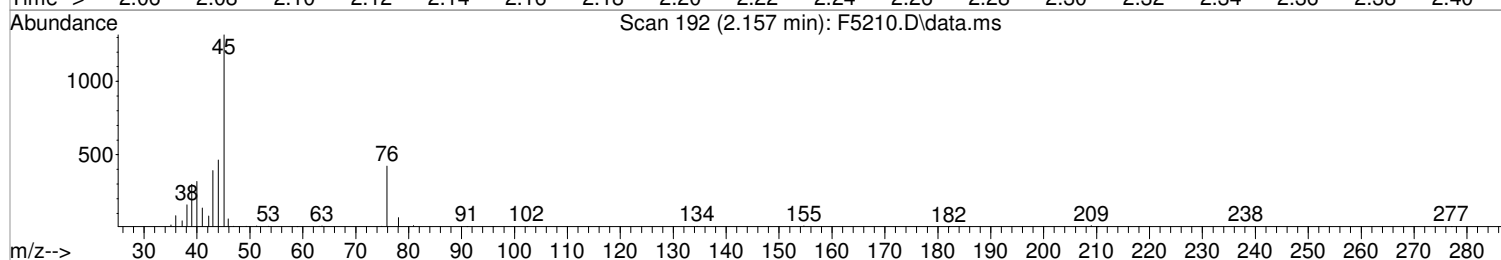
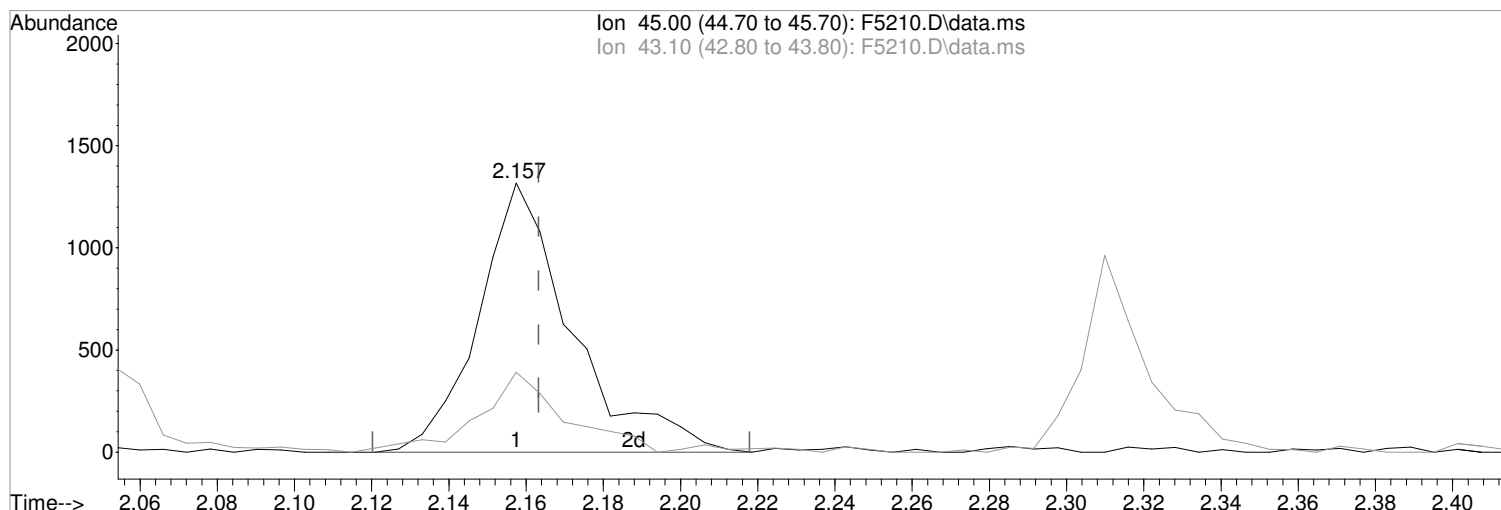
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(16) 2-Propanol

2.157min (-0.006) 10.23 ug/L m

response 2208

Ion	Exp%	Act%
45.00	100	100
43.10	22.20	29.76
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

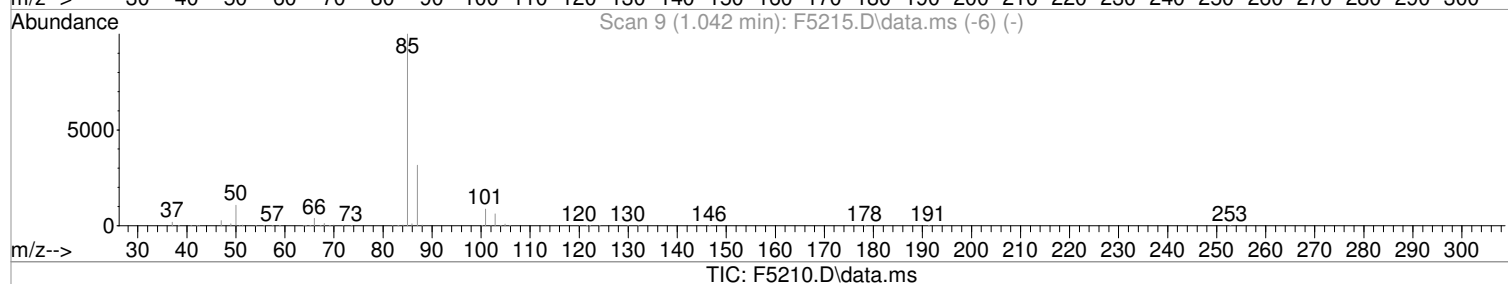
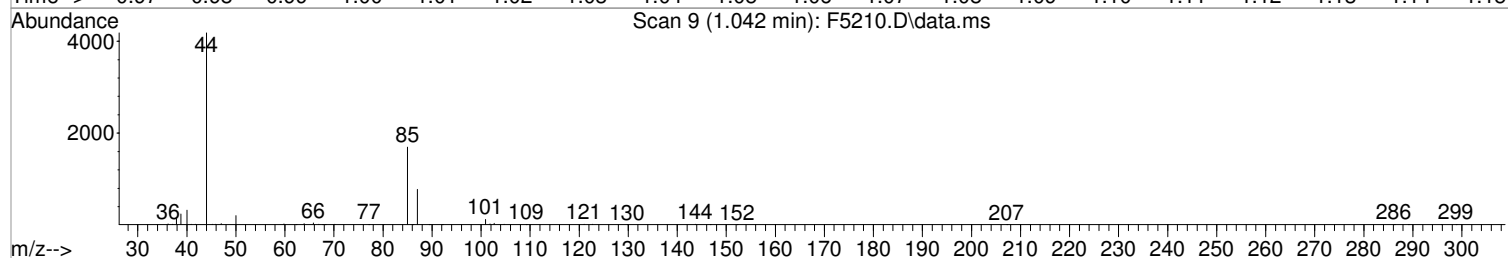
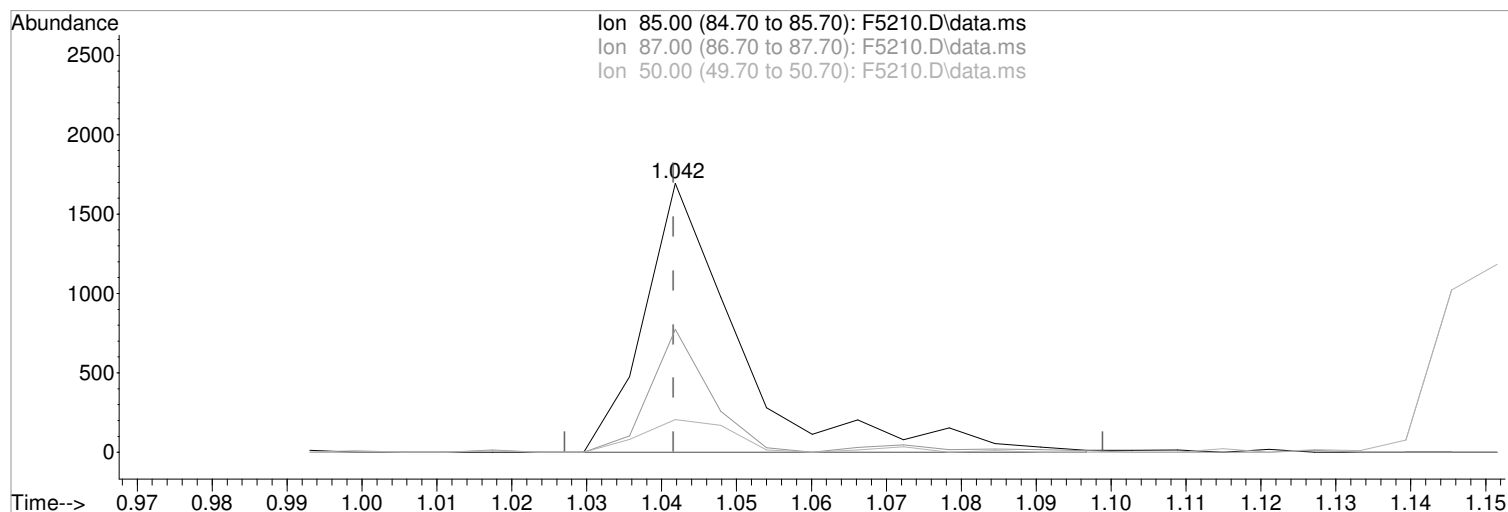
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (+0.000) 0.41 ug/L m

response 1491

Ion	Exp%	Act%
85.00	100	100
87.00	33.30	45.69
50.00	14.00	12.16
0.00	0.00	0.00

Manual Integration:

After

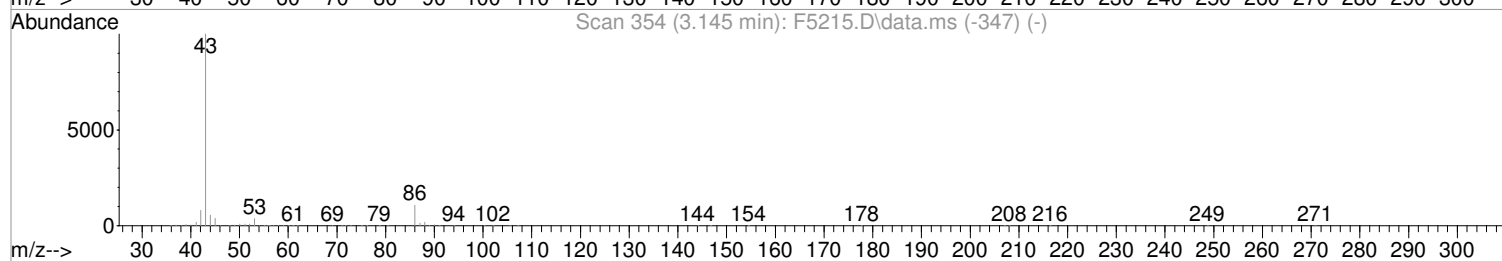
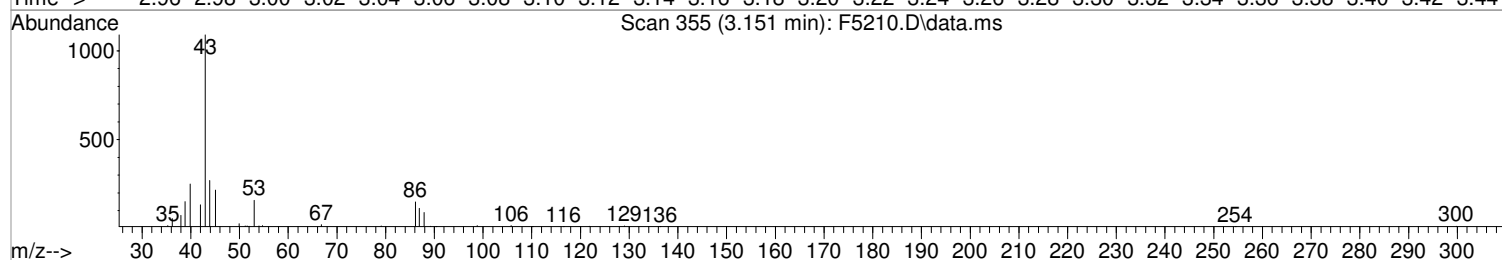
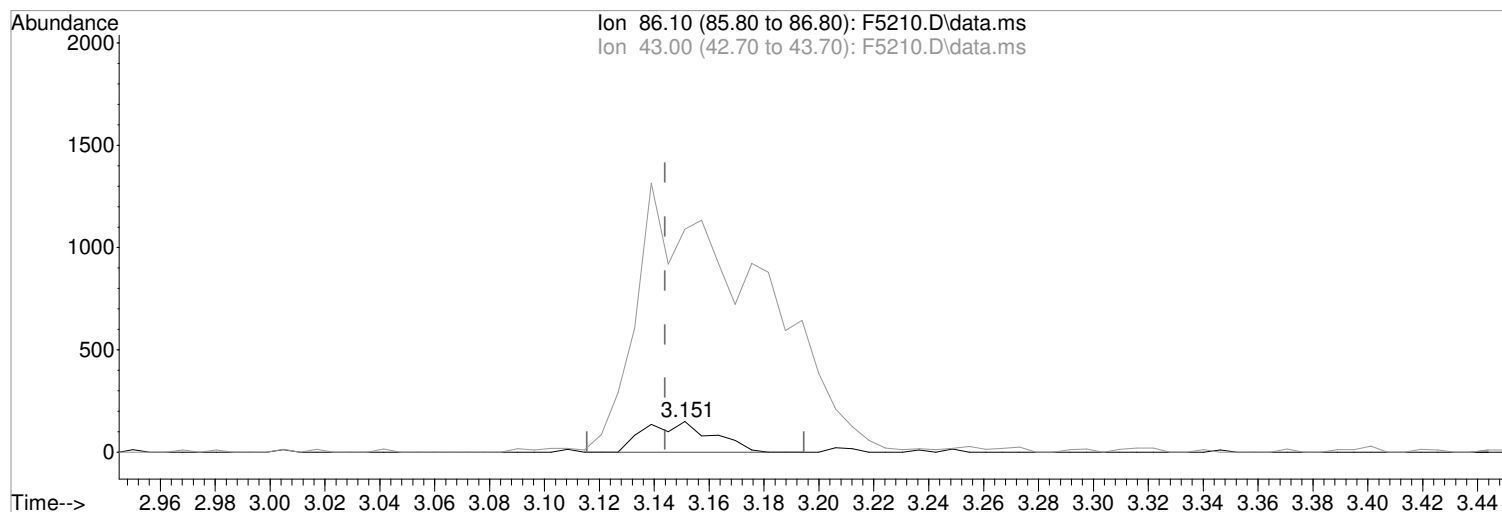
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(28) Vinyl Acetate

3.151min (+0.007) 0.46 ug/L m

response 255

Ion	Exp%	Act%
86.10	100	100
43.00	1004.50	731.54#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

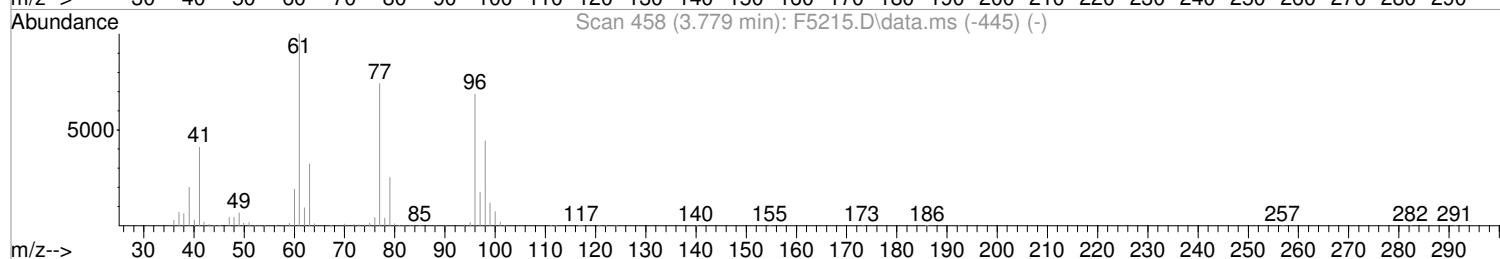
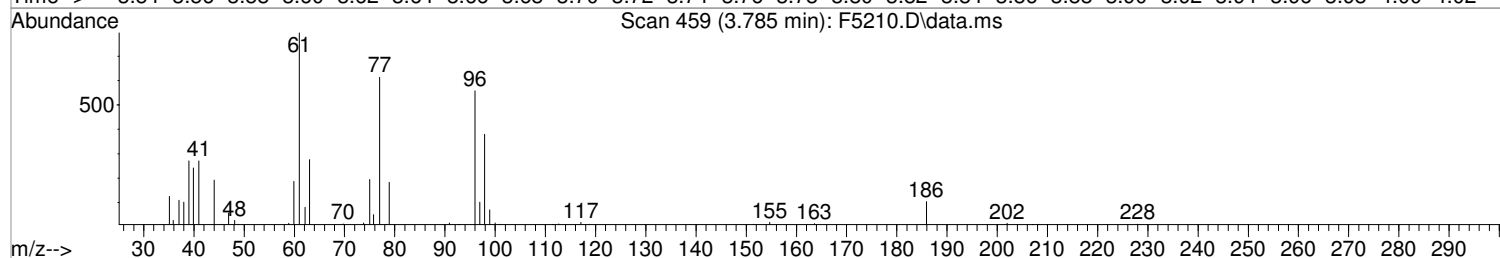
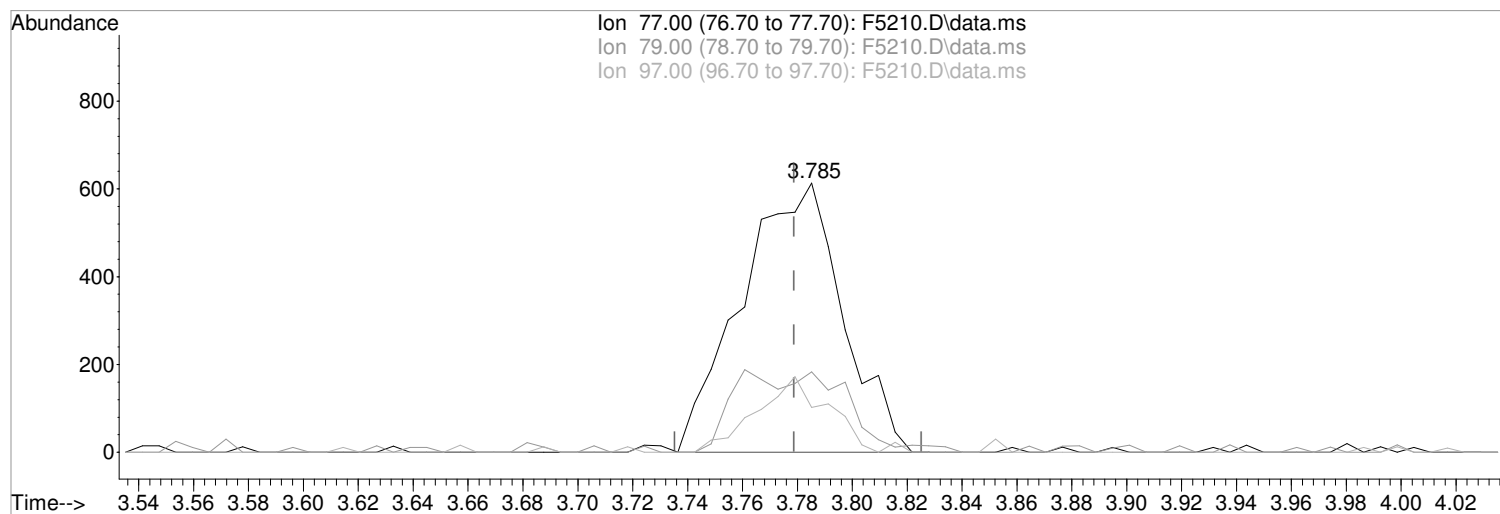
Peak not found.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(32) 2,2-Dichloropropane

3.785min (+0.006) 0.46 ug/L m

response 1570

Ion	Exp%	Act%
77.00	100	100
79.00	30.20	29.85
97.00	24.20	16.64
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

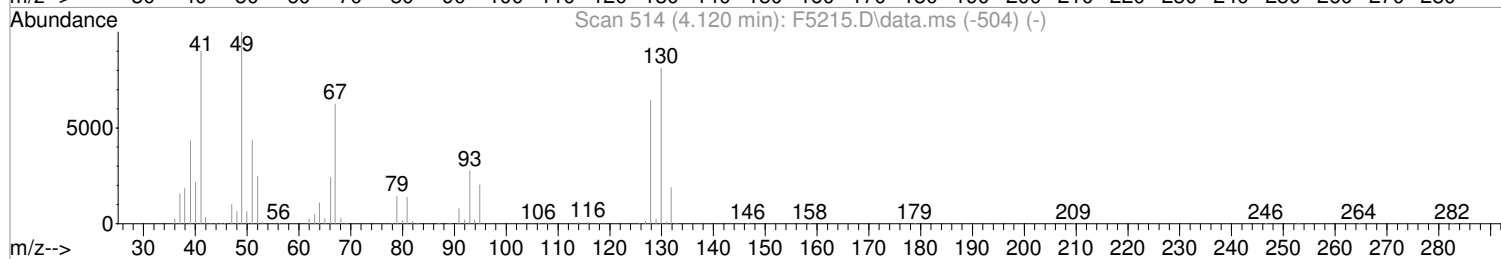
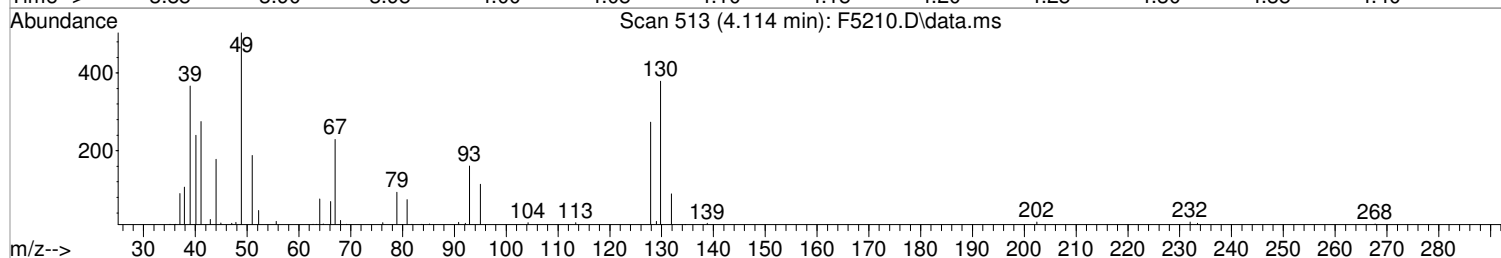
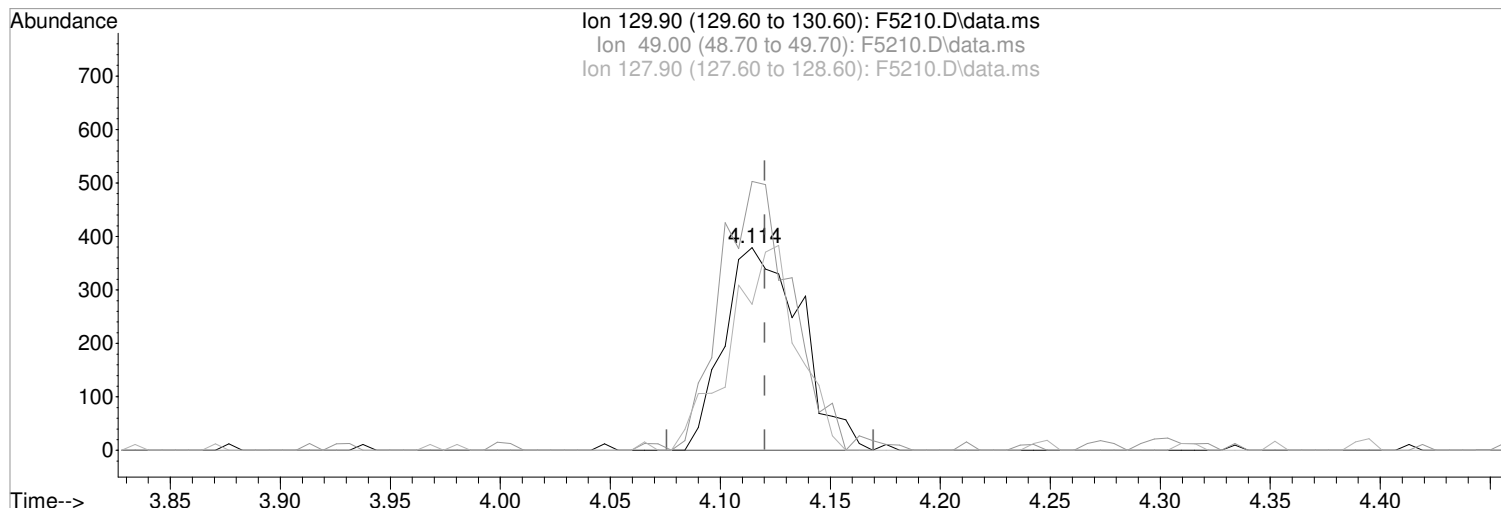
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(36) Bromochloromethane

4.114min (-0.006) 0.50 ug/L m

response 927

Ion	Exp%	Act%
129.90	100	100
49.00	125.30	132.72
127.90	73.80	72.03
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

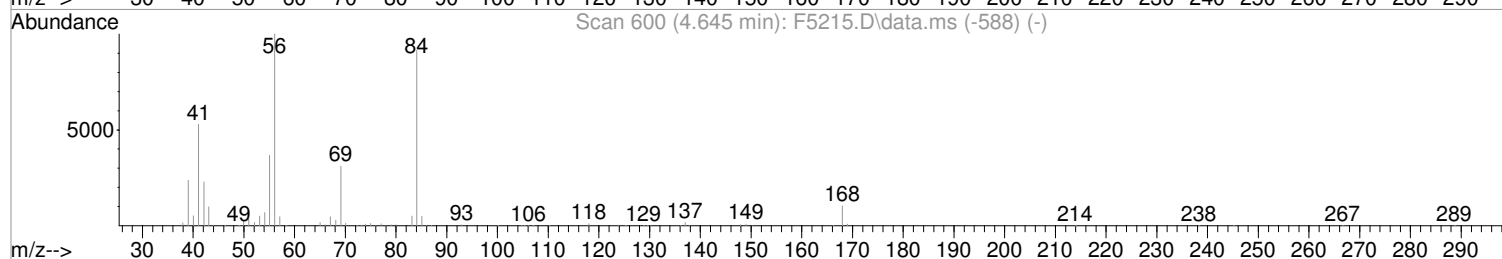
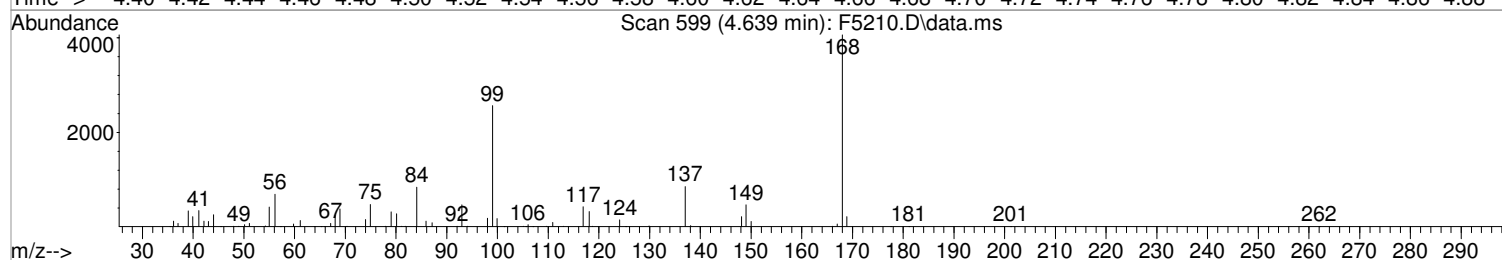
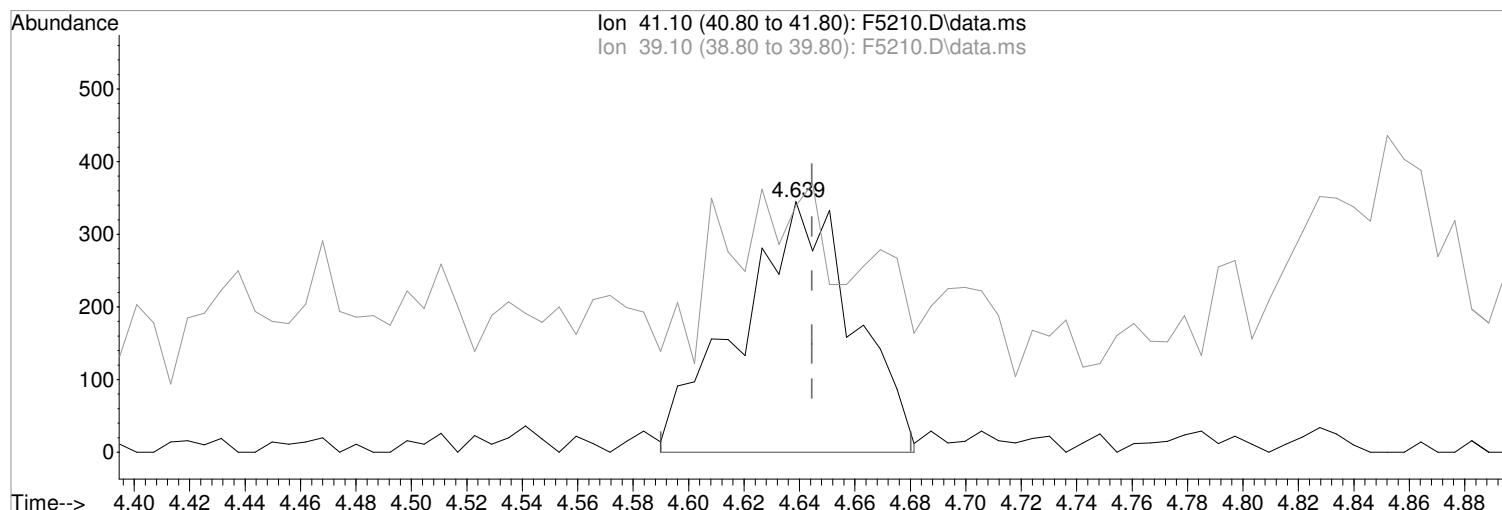
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(43) Cyclohexane (P)

4.639min (-0.006) 0.53 ug/L m

response 983

Ion	Exp%	Act%
41.10	100	100
39.10	54.90	98.26#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

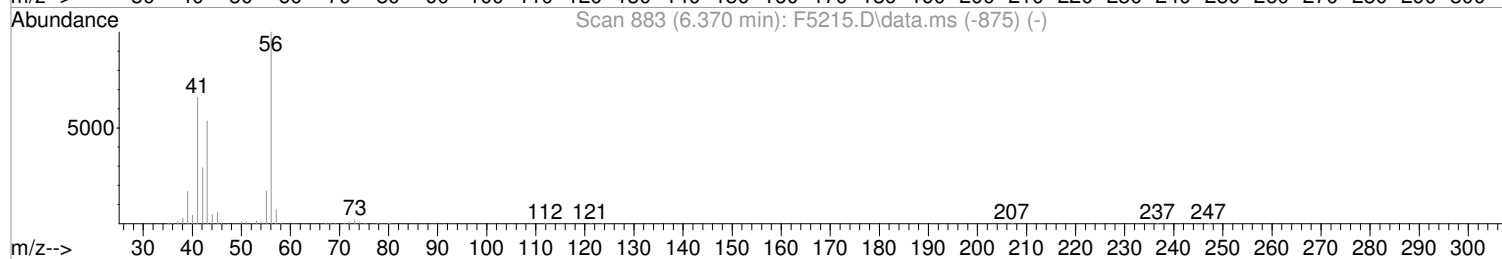
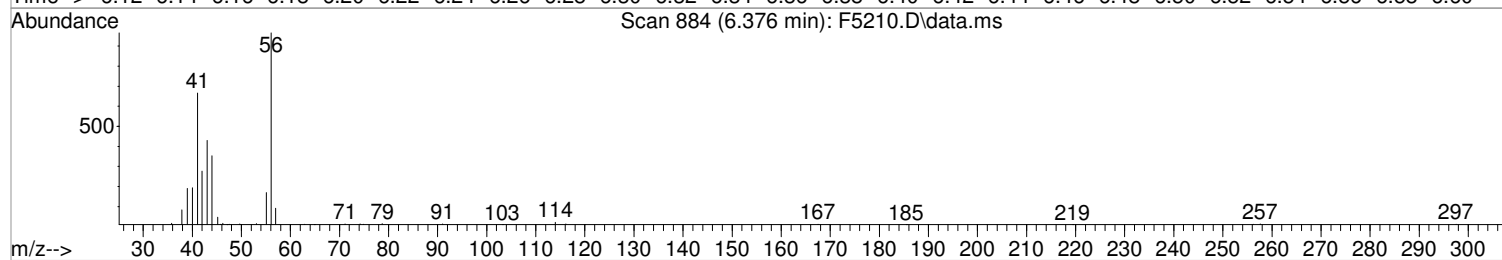
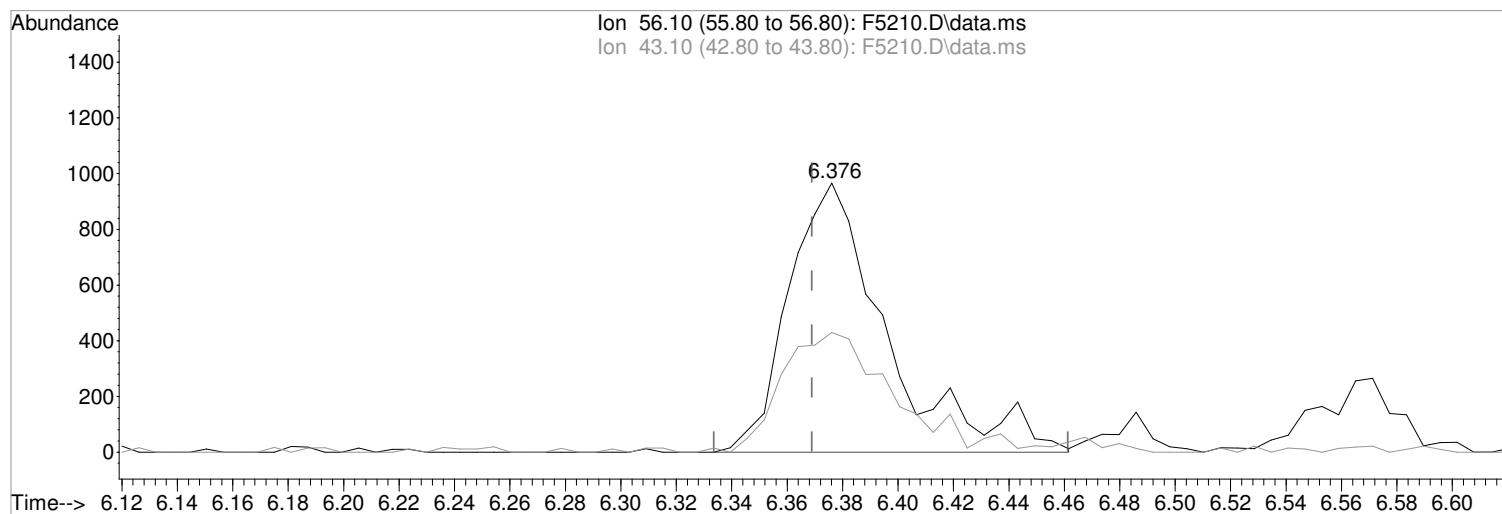
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(52) 1-Butanol

6.376min (+0.007) 20.42 ug/L m

response 2373

Ion	Exp%	Act%
56.10	100	100
43.10	54.40	44.41
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

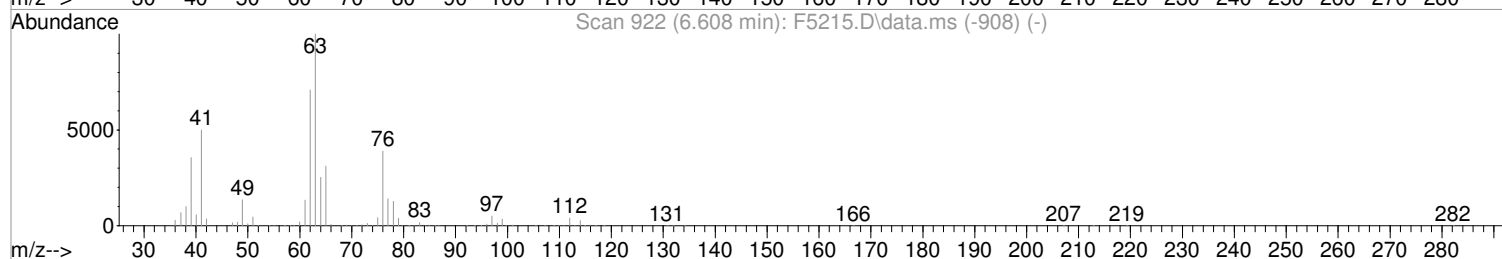
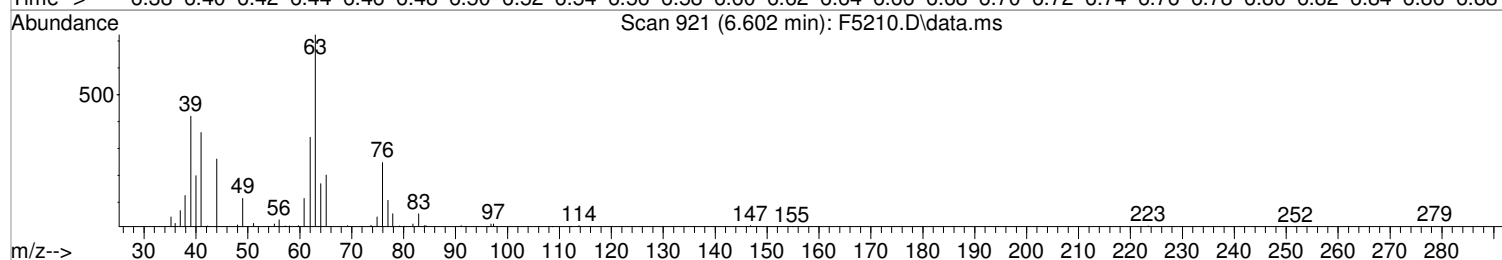
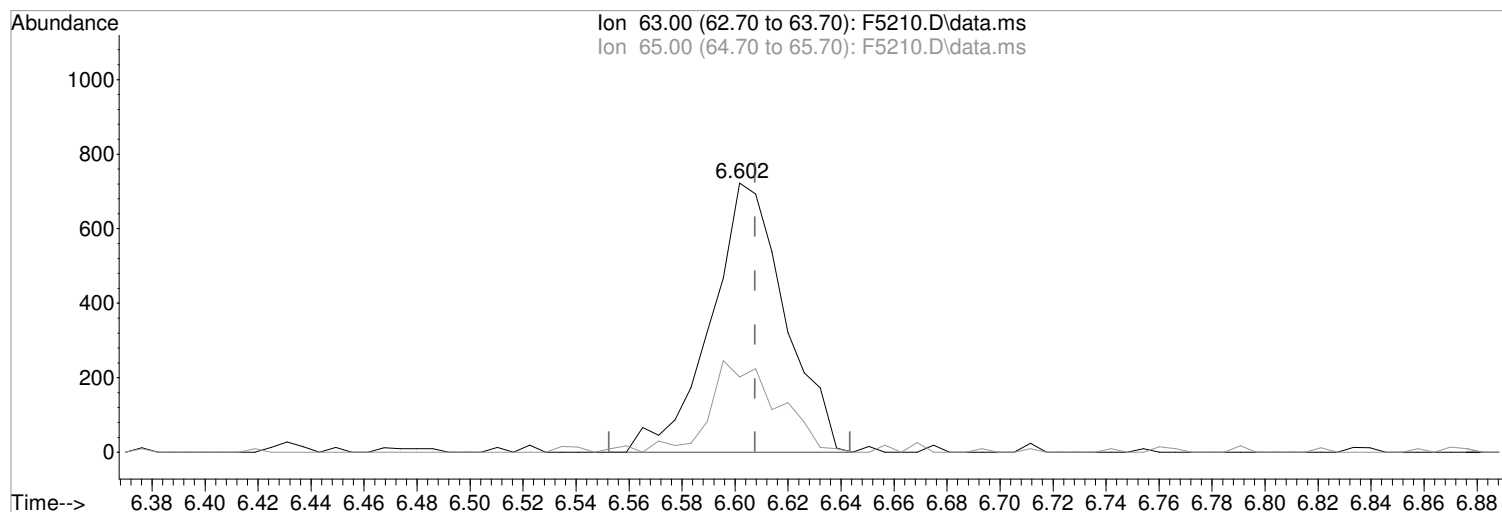
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(55) 1,2-Dicloropropane (P)

6.602min (-0.006) 0.55 ug/L m

response 1403

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	27.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

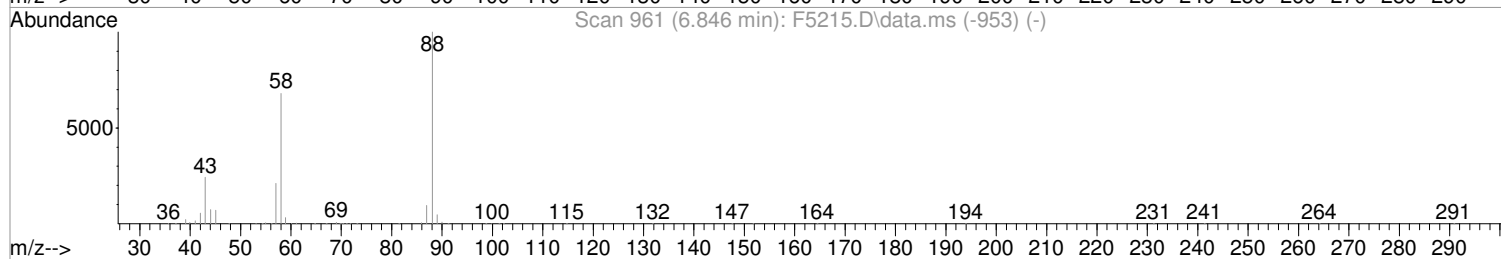
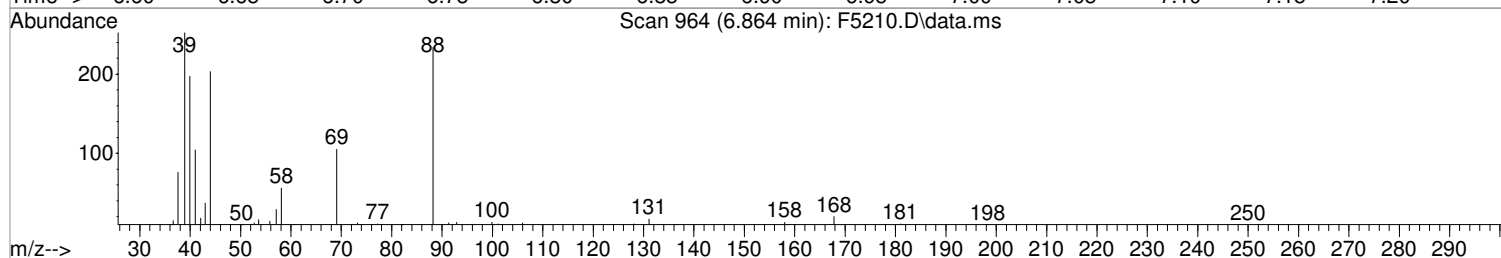
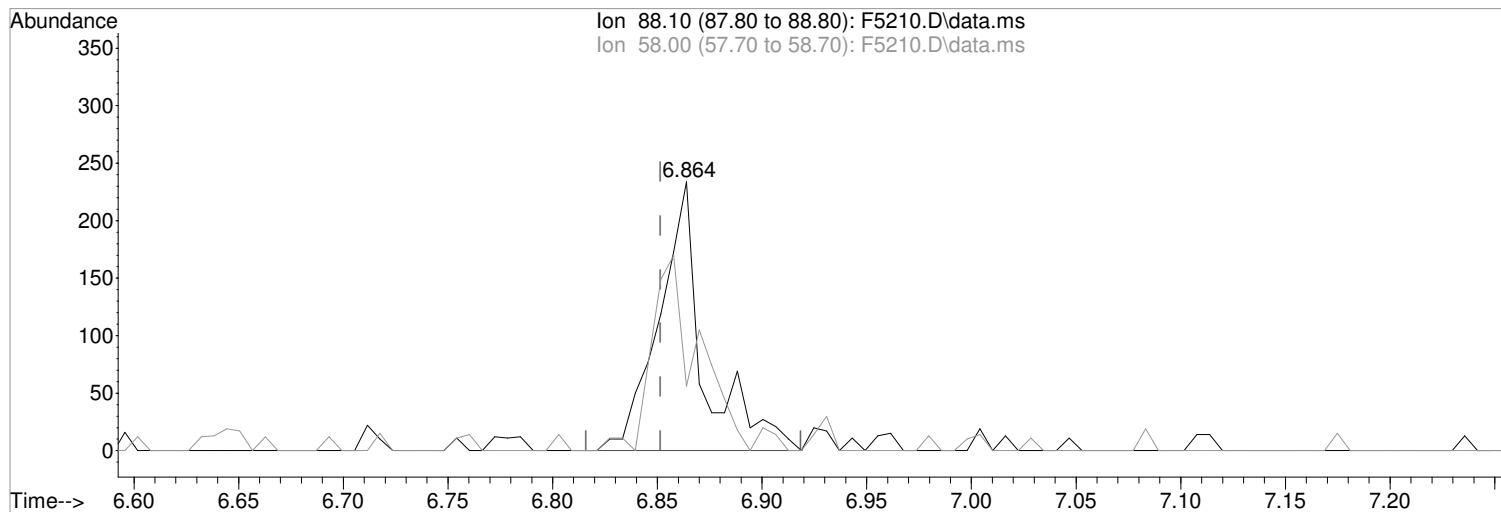
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(57) 1,4-Dioxane

6.864min (+0.012) 6.57 ug/L m

response 345

Ion	Exp%	Act%
88.10	100	100
58.00	59.60	23.93#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

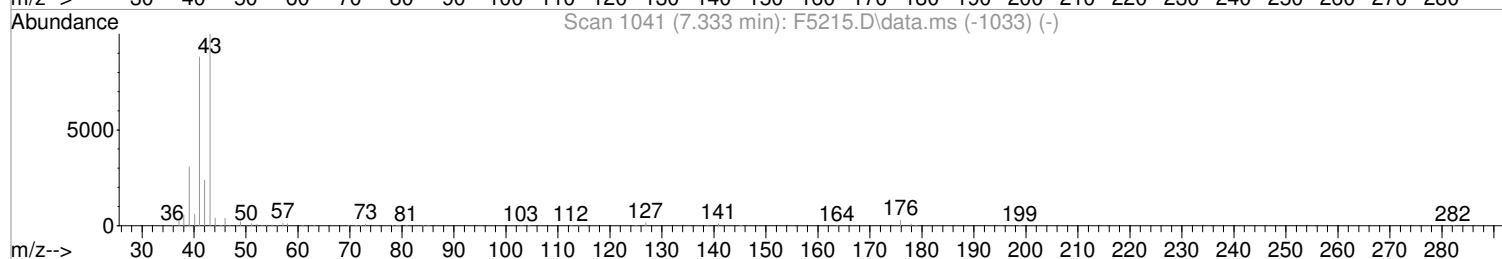
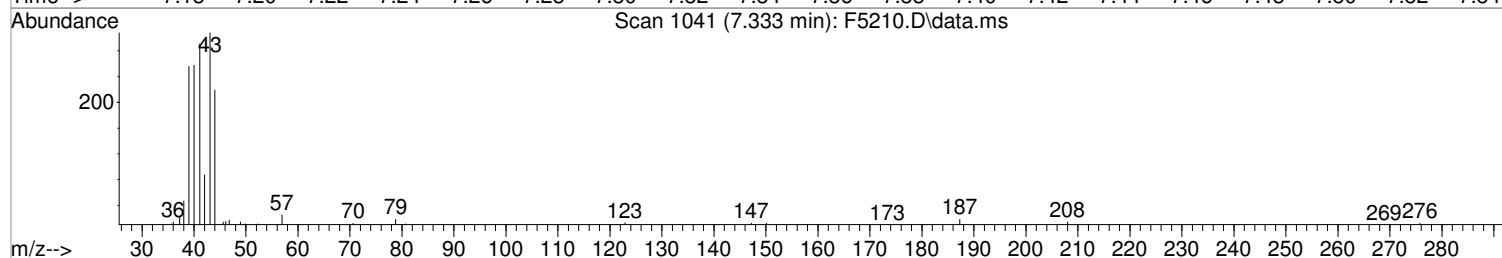
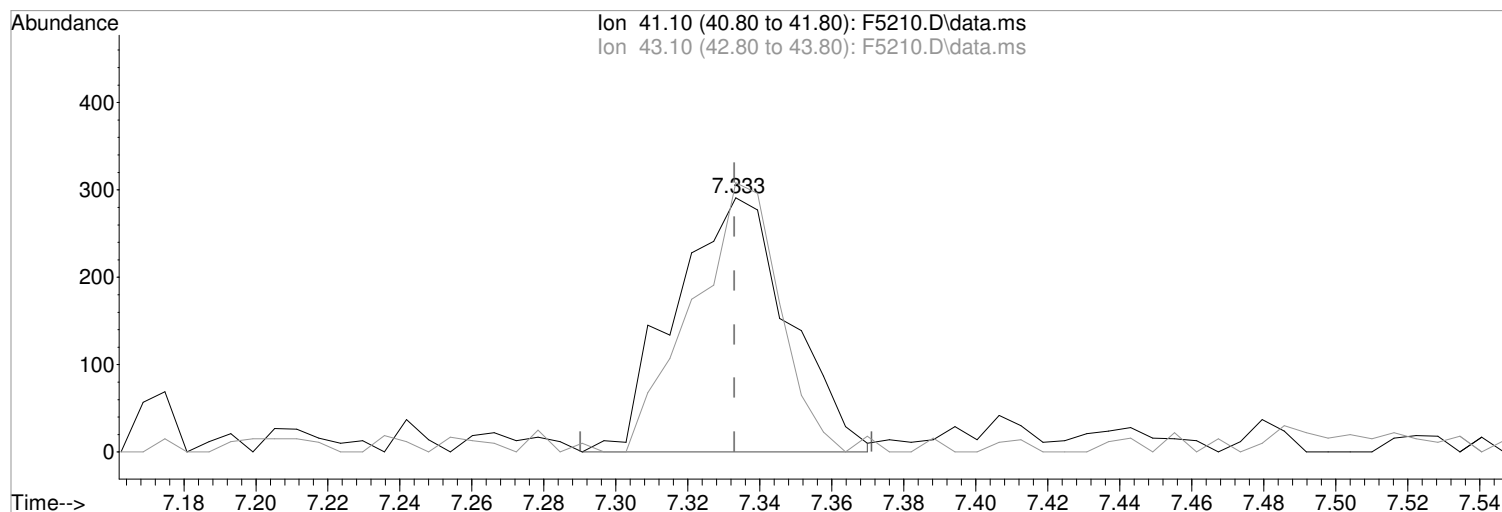
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(60) 2-Nitropropane

Manual Integration:

7.333min (+0.000) 1.00 ug/L m

After

response 643

Poor integration.

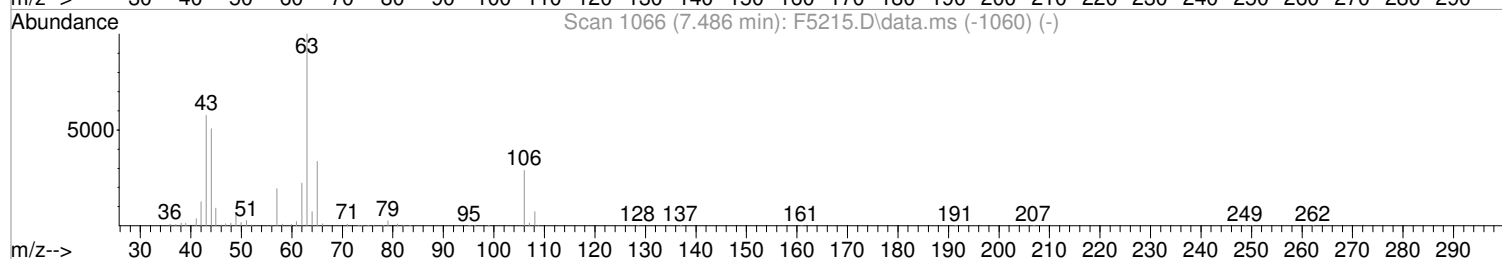
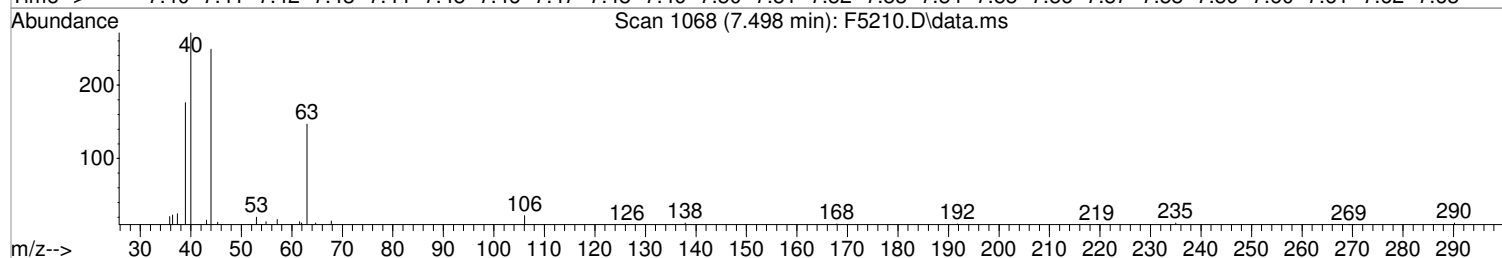
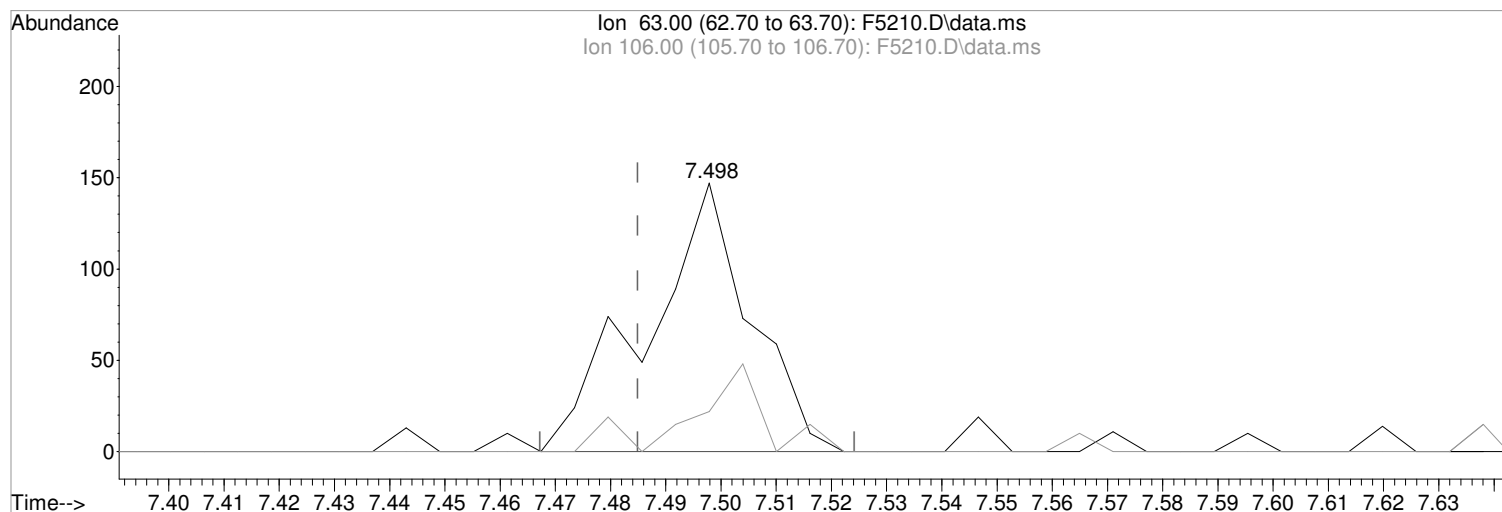
Ion	Exp%	Act%
41.10	100	100
43.10	111.10	105.84
0.00	0.00	0.00
0.00	0.00	0.00

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(61) 2-Chloroethylvinyl Ether

7.498min (+0.013) 0.39 ug/L m

response 192

Ion	Exp%	Act%
63.00	100	100
106.00	26.90	14.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

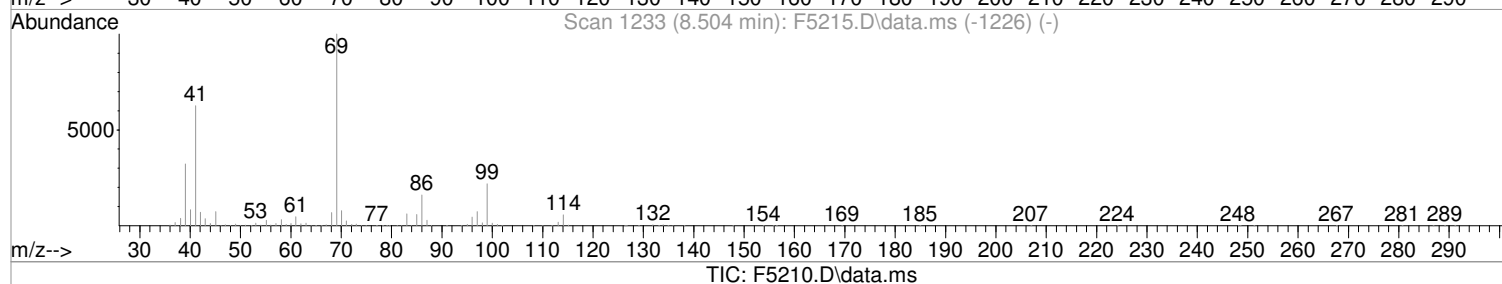
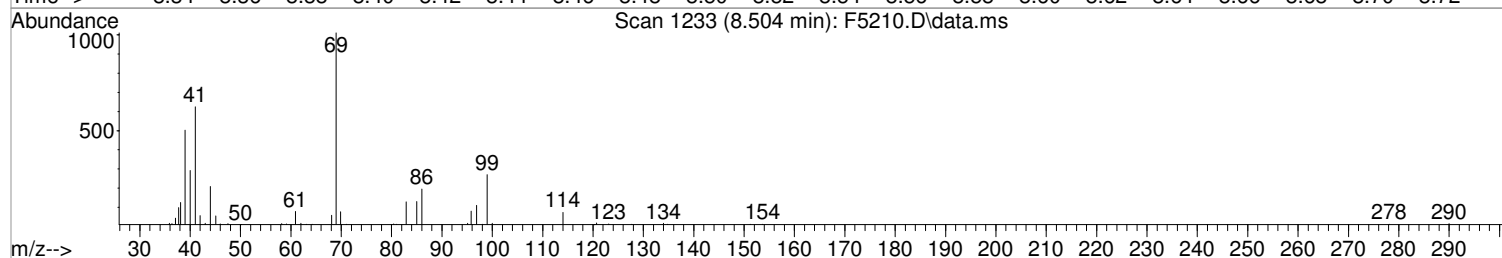
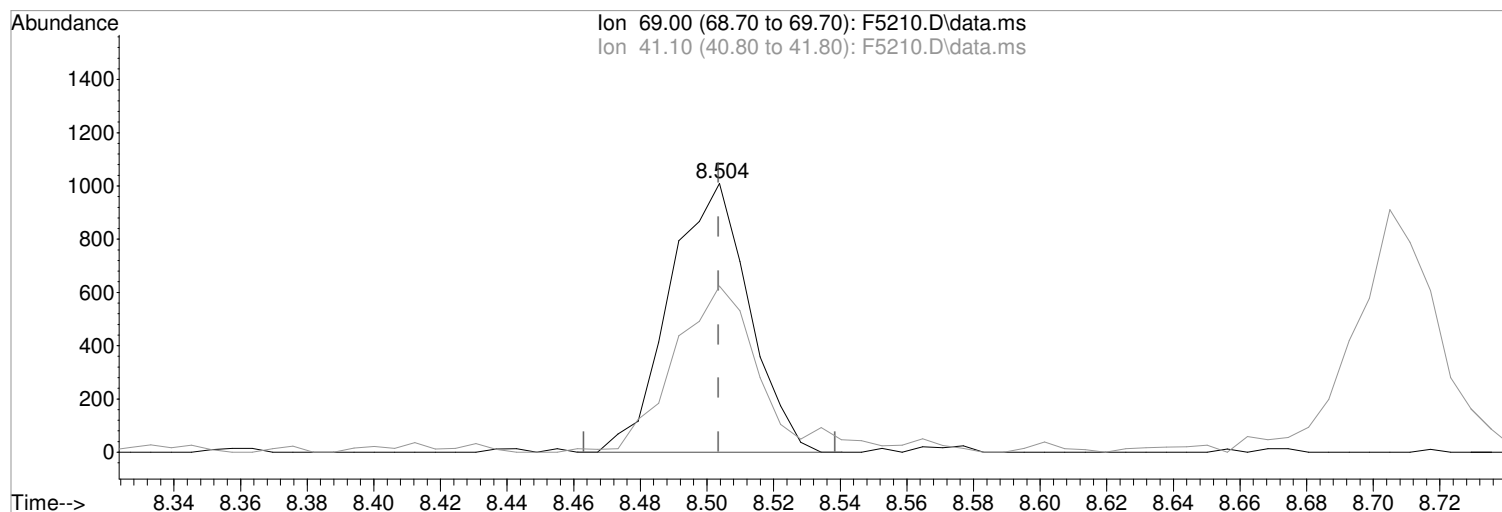
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



(67) Ethyl Methacrylate

Manual Integration:

8.504min (+0.000) 0.44 ug/L m

After

response 1666

Poor integration.

Ion	Exp%	Act%
69.00	100	100
41.10	68.50	61.78
0.00	0.00	0.00
0.00	0.00	0.00

04/01/19

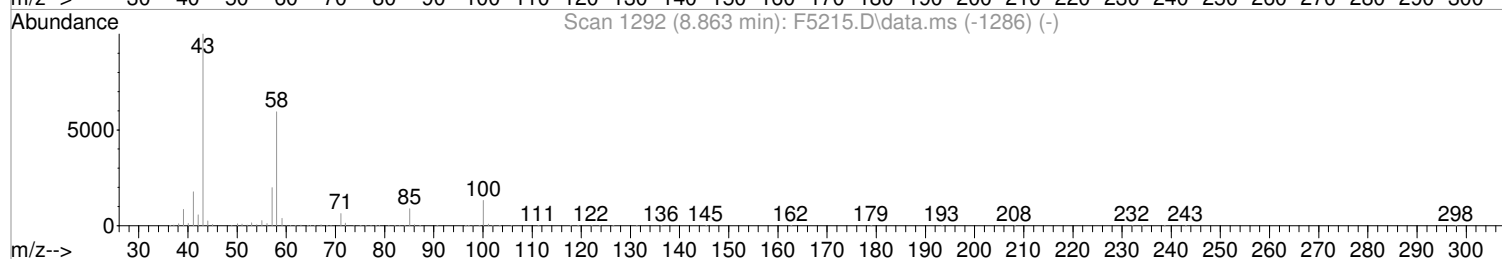
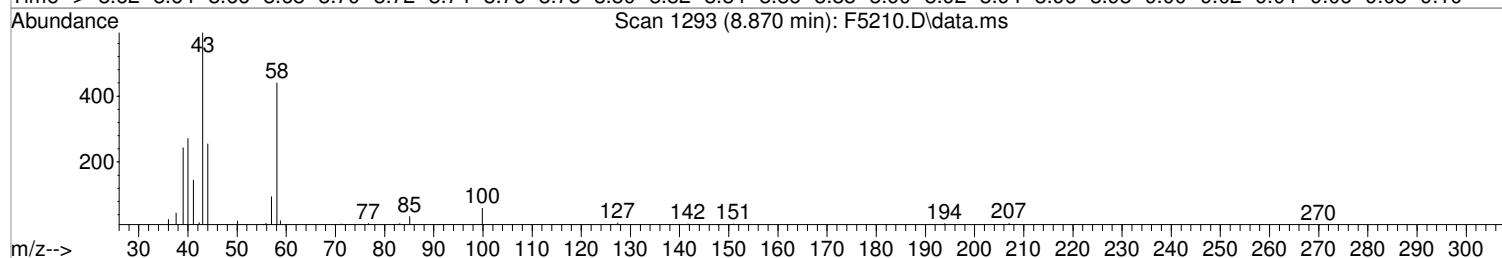
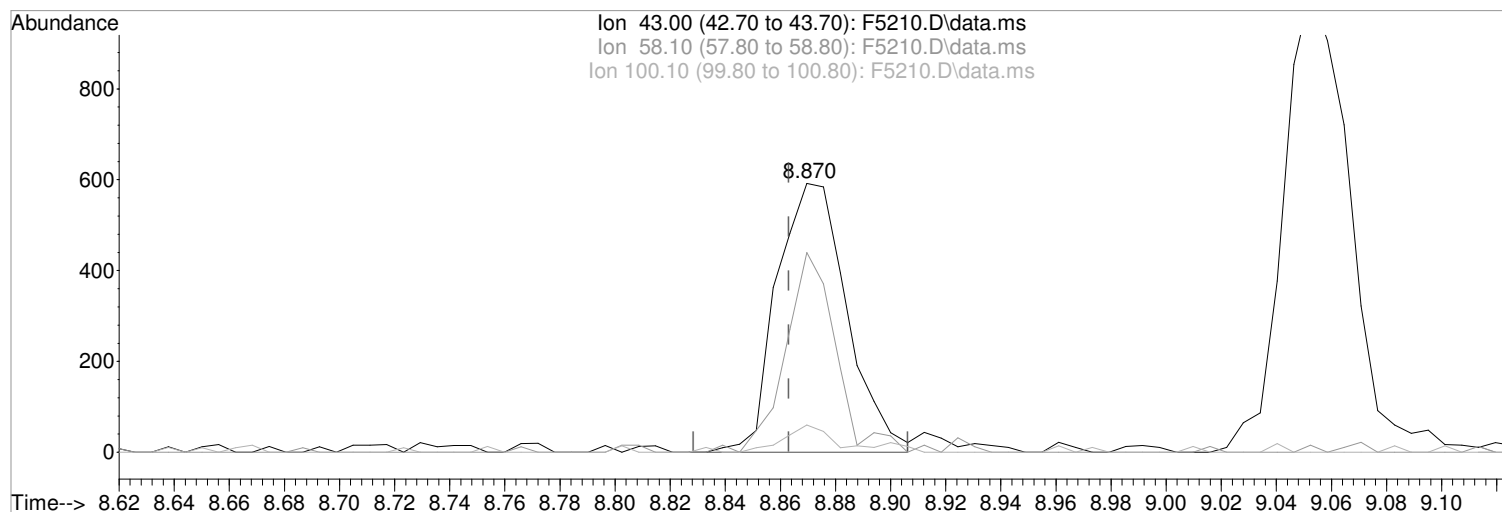
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(72) 2-Hexanone (P)

8.870min (+0.007) 0.51 ug/L m

response 1046

Ion	Exp%	Act%
43.00	100	100
58.10	54.70	74.32
100.10	12.70	10.14
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

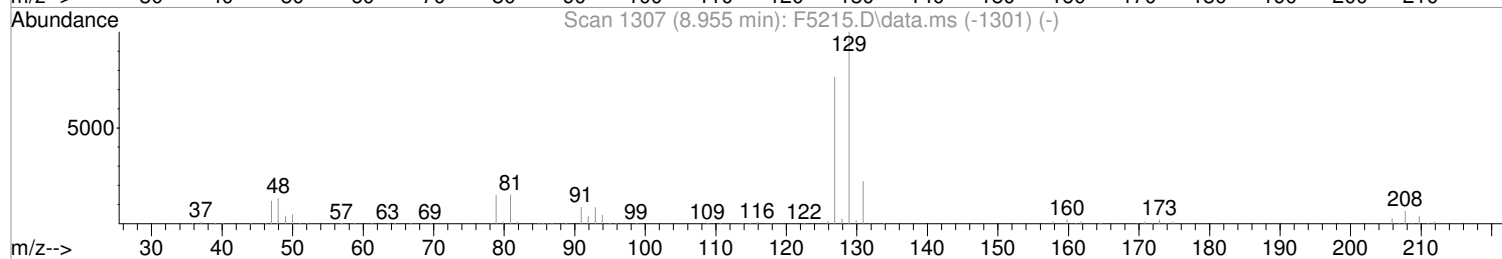
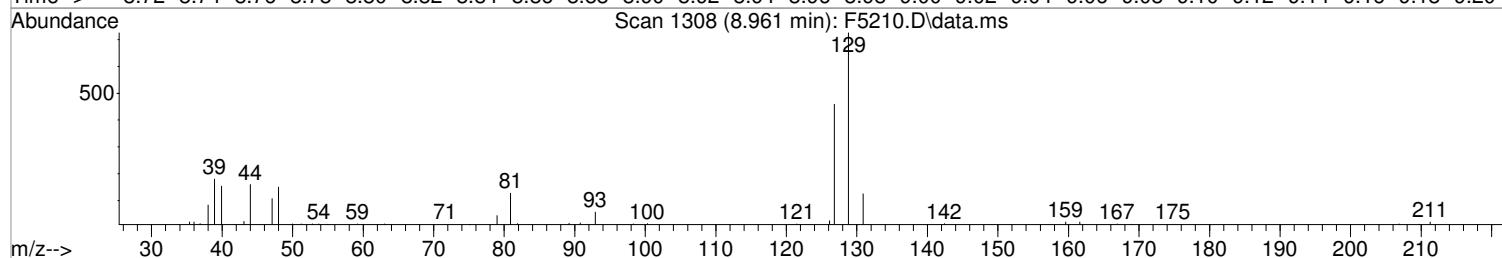
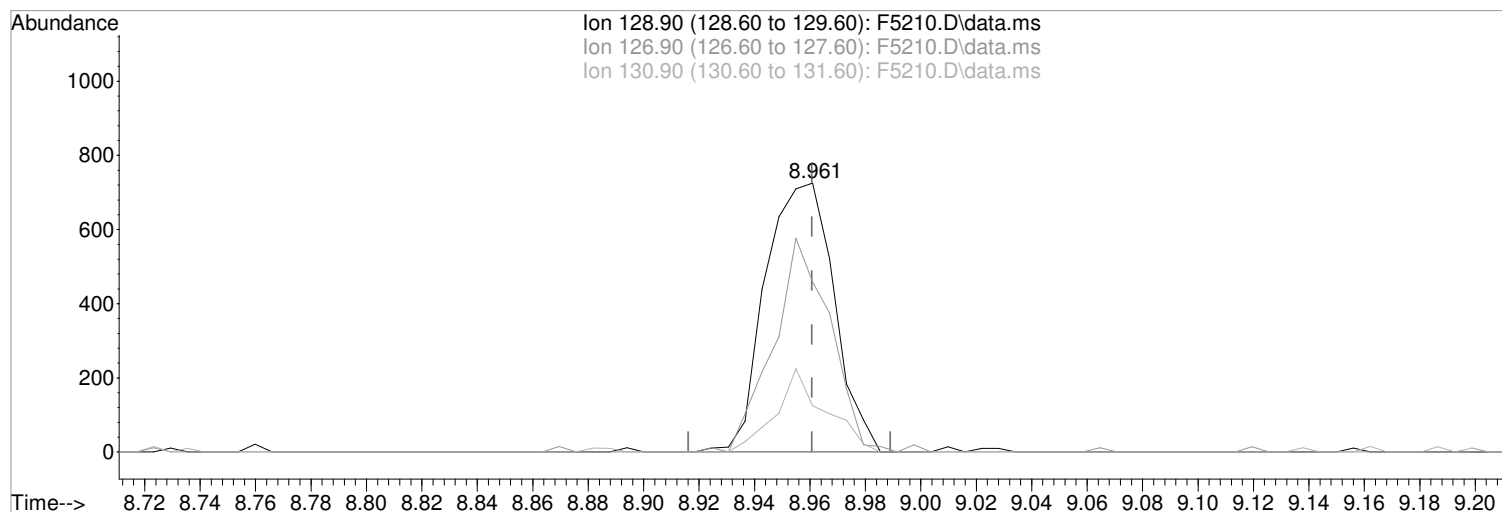
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



TIC: F5210.D\data.ms

(74) Dibromochloromethane (P)

8.961min (+0.000) 0.47 ug/L m

response 1246

Ion	Exp%	Act%
128.90	100	100
126.90	80.20	63.31
130.90	22.00	17.24
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5210.D
 Acq On : 26 Mar 2019 12:53 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Feb 26 15:29:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	274390	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	412755	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	358274	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	188605	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	32995	13.03	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	26.06%#
47) surr1,1,2-dichloroetha...	5.120	65	39394	14.00	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	28.00%#
64) SURR3,Toluene-d8	7.943	98	144387	14.78	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	29.56%#
69) SURR2,BFB	10.723	95	58688	16.04	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	32.08%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.042	85	1491m	0.41	ug/L	
3) Chloromethane	1.152	50	1821	0.79	ug/L	96
4) Vinyl Chloride	1.219	62	1452	0.78	ug/L	84
5) Bromomethane	1.414	94	1514	1.24	ug/L	99
6) Chloroethane	1.481	64	959	1.10	ug/L	87
7) Freon 21	1.603	67	1997	0.86	ug/L	90
8) Trichlorofluoromethane	1.651	101	1637	0.69	ug/L	98
9) Diethyl Ether	1.847	59	1212	0.66	ug/L	92
10) Freon 123a	1.847	67	1395	0.64	ug/L	86
11) Freon 123	1.889	83	1572	0.55	ug/L #	75
12) Acrolein	1.926	56	1574	2.60	ug/L	96
13) 1,1-Dicethene	2.005	96	1084	0.53	ug/L #	81
14) Freon 113	2.017	101	1032	0.52	ug/L	95
15) Acetone	2.042	43	1073	1.18	ug/L	70
16) 2-Propanol	2.157	45	2208m	10.23	ug/L	
18) Carbon Disulfide	2.170	76	3044	0.54	ug/L	97
19) Acetonitrile	2.255	40	817	4.48	ug/L #	54
20) Allyl Chloride	2.292	76	608	0.51	ug/L #	91
21) Methyl Acetate	2.310	43	1118	0.51	ug/L	94
22) Methylene Chloride	2.389	84	1577	0.65	ug/L #	79
23) TBA	2.505	59	3576	9.47	ug/L	89
24) Acrylonitrile	2.602	53	3531	3.21	ug/L	81
25) Methyl-t-Butyl Ether	2.657	73	3953	0.54	ug/L	96
26) trans-1,2-Dichloroethene	2.645	96	1239	0.53	ug/L #	70
27) 1,1-Dicethane	3.066	63	2041	0.51	ug/L	91
28) Vinyl Acetate	3.151	86	255m	0.46	ug/L	
29) DIPE	3.182	45	3874	0.61	ug/L	91
30) 2-Chloro-1,3-Butadiene	3.176	53	1476	0.50	ug/L	87
31) ETBE	3.633	59	3395	0.51	ug/L	92
32) 2,2-Dichloropropane	3.785	77	1570m	0.46	ug/L	
33) cis-1,2-Dichloroethene	3.773	96	1315	0.50	ug/L #	68
34) 2-Butanone	3.840	43	937	0.66	ug/L	97
35) Propionitrile	3.901	54	1347	3.02	ug/L	83
36) Bromochloromethane	4.114	130	927m	0.50	ug/L	
37) Methacrylonitrile	4.120	67	602	0.48	ug/L #	73
38) Tetrahydrofuran	4.224	42	680	0.80	ug/L	98
39) Chloroform	4.279	83	2152	0.55	ug/L	88
40) 1,1,1-Trichloroethane	4.541	97	1641	0.47	ug/L	85
41) TAME	5.504	73	3226	0.47	ug/L	78

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5210.D
 Acq On : 26 Mar 2019 12:53 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Feb 26 15:29:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Cyclohexane	4.639	41	983m	0.53	ug/L	
45) Carbontetrachloride	4.840	117	1355	0.43	ug/L	89
46) 1,1-Dichloropropene	4.852	75	1484	0.46	ug/L	85
48) Benzene	5.218	78	5199	0.52	ug/L	92
49) 1,2-Dichloroethane	5.254	62	1699	0.50	ug/L	94
50) Iso-Butyl Alcohol	5.248	43	1437	8.72	ug/L #	62
51) n-Heptane	5.803	43	1282	0.51	ug/L	92
52) 1-Butanol	6.376	56	2373m	20.42	ug/L	
53) Trichloroethene	6.291	130	1287	0.42	ug/L	92
54) Methylcyclohexane	6.571	55	1375	0.51	ug/L #	83
55) 1,2-Dichloropropane	6.602	63	1403m	0.55	ug/L	
56) Dibromomethane	6.754	93	898	0.49	ug/L #	76
57) 1,4-Dioxane	6.864	88	345m	6.57	ug/L	
58) Methyl Methacrylate	6.894	69	999	0.46	ug/L	87
59) Bromodichloromethane	7.022	83	1417	0.44	ug/L	93
60) 2-Nitropropane	7.333	41	643m	1.00	ug/L	
61) 2-Chloroethylvinyl Ether	7.498	63	192m	0.39	ug/L	
62) cis-1,3-Dichloropropene	7.626	75	1876	0.44	ug/L	90
63) 4-Methyl-2-pentanone	7.858	43	1436	0.52	ug/L	95
65) Toluene	8.022	91	5735	0.53	ug/L	91
66) trans-1,3-Dichloropropene	8.327	75	1625	0.41	ug/L	89
67) Ethyl Methacrylate	8.504	69	1666m	0.44	ug/L	
68) 1,1,2-Trichloroethane	8.522	97	1452	0.54	ug/L	86
71) Tetrachloroethene	8.668	164	1448	0.60	ug/L	88
72) 2-Hexanone	8.870	43	1046m	0.51	ug/L	
73) 1,3-Dichloropropane	8.705	76	2228	0.51	ug/L	87
74) Dibromochloromethane	8.961	129	1246m	0.47	ug/L	
75) N-Butyl Acetate	9.052	43	1702	0.44	ug/L	88
76) 1,2-Dibromoethane	9.059	107	1238	0.44	ug/L #	73
77) 3-Chlorobenzotrifluoride	9.650	180	1725	0.40	ug/L	92
78) Chlorobenzene	9.601	112	3707	0.50	ug/L	83
79) 4-Chlorobenzotrifluoride	9.711	180	1519	0.39	ug/L	82
80) 1,1,1,2-Tetrachloroethane	9.705	131	1012	0.38	ug/L #	72
81) Ethylbenzene	9.741	106	1860	0.47	ug/L	96
82) (m+p)Xylene	9.869	106	4306	0.90	ug/L	95
83) o-Xylene	10.241	106	2030	0.43	ug/L	89
84) Styrene	10.260	104	3351	0.42	ug/L	100
85) Bromoform	10.406	173	796	0.41	ug/L	75
86) 2-Chlorobenzotrifluoride	10.516	180	1775	0.41	ug/L	80
87) Isopropylbenzene	10.601	105	5073	0.43	ug/L	89
88) Cyclohexanone	10.656	55	4905	9.03	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.930	53	357	0.44	ug/L	88
91) 1,1,2,2-Tetrachloroethane	10.875	83	1937	0.57	ug/L	99
92) Bromobenzene	10.851	156	1624	0.49	ug/L #	68
93) 1,2,3-Trichloropropane	10.900	110	711	0.60	ug/L #	77
94) n-Propylbenzene	10.979	91	5855	0.49	ug/L	93
95) 2-Chlorotoluene	11.034	91	3902	0.53	ug/L	97
96) 3-Chlorotoluene	11.089	91	3919	0.54	ug/L	85
97) 4-Chlorotoluene	11.131	91	4397	0.53	ug/L	93
98) 1,3,5-Trimethylbenzene	11.137	105	4065	0.46	ug/L	96
99) tert-Butylbenzene	11.418	119	3601	0.45	ug/L	95
100) 1,2,4-Trimethylbenzene	11.461	105	3868	0.44	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.528	214	1342	0.42	ug/L #	82
102) sec-Butylbenzene	11.607	105	4954	0.44	ug/L	94
103) p-Isopropyltoluene	11.735	119	4198	0.44	ug/L	84
104) 1,3-Dclbenz	11.674	146	2937	0.51	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5210.D
Acq On : 26 Mar 2019 12:53 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.753	146	3326	0.55	ug/L	93
106) 2,4-Dichlorobenzotrifl...	11.826	214	1215	0.42	ug/L	91
107) 2,5-Dichlorobenzotrifl...	11.869	214	1420	0.44	ug/L	96
108) n-Butylbenzene	12.076	91	3613	0.47	ug/L	90
109) 1,2-Dclbenz	12.064	146	2806	0.47	ug/L	82
110) 1,2-Dibromo-3-chloropr...	12.698	157	352	0.38	ug/L	88
111) Trielution Dichlorotol...	12.826	125	5286	1.23	ug/L	95
112) 1,3,5-Trichlorobenzene	12.875	180	1654	0.40	ug/L	87
113) Coelution Dichlorotoluene	13.149	125	3279	0.70	ug/L	92
114) 1,2,4-Tcbenzene	13.363	180	1255	0.33	ug/L	90
115) Hexachlorobt	13.503	225	895	0.47	ug/L #	77
116) Naphthalen	13.552	128	2258	0.22	ug/L	96
117) 1,2,3-Tclbenzene	13.734	180	1016	0.27	ug/L	87

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

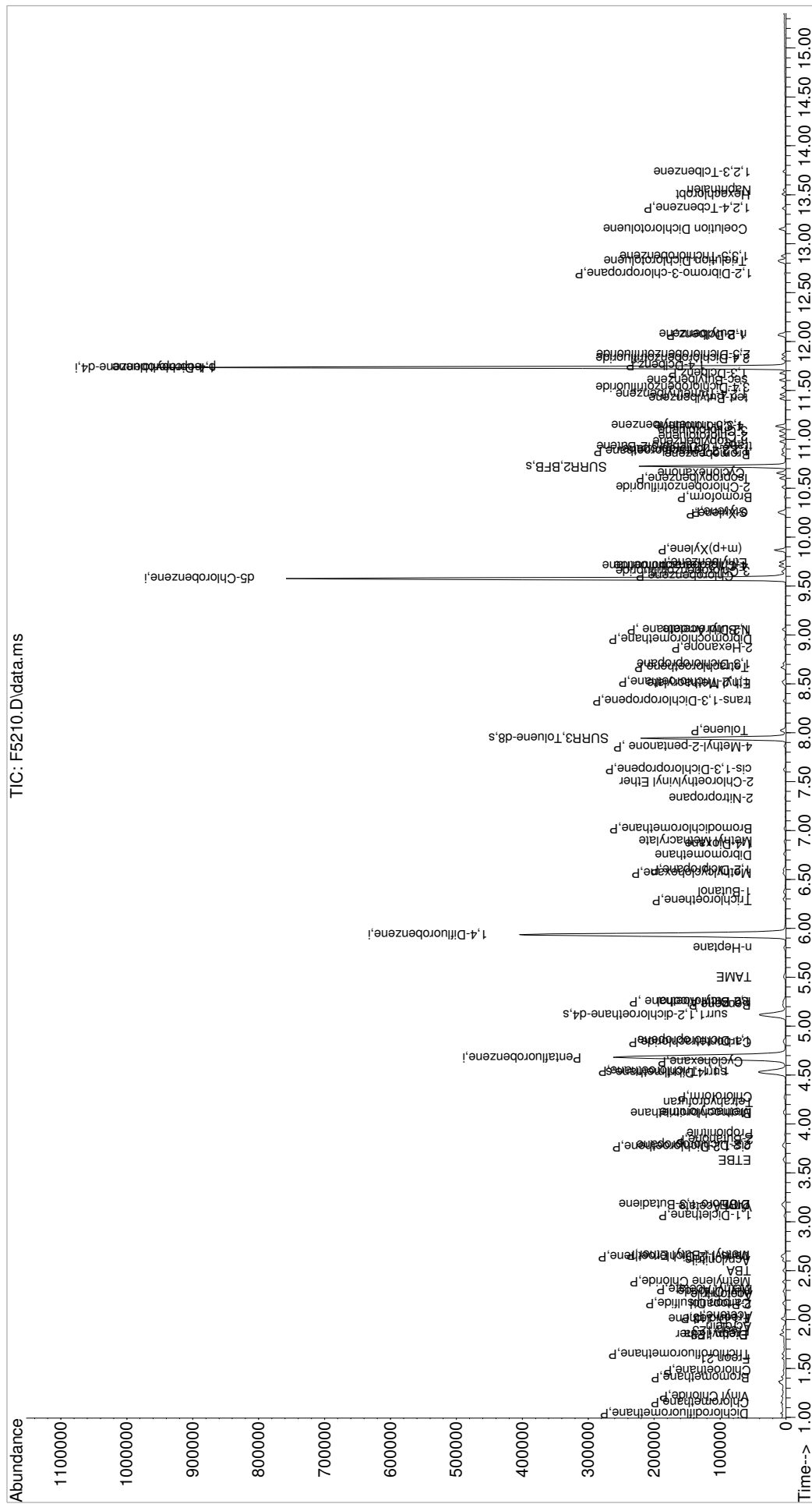
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5210.D
Acq On	:	26 Mar 2019 12:53 pm
Operator	:	F.NAEGLER
Sample	:	0.5 PPB STD
Misc	:	
ALS Vial	:	2 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 13:57:23 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Feb 26 15:29:19 2019
Response via : Initial Calibration



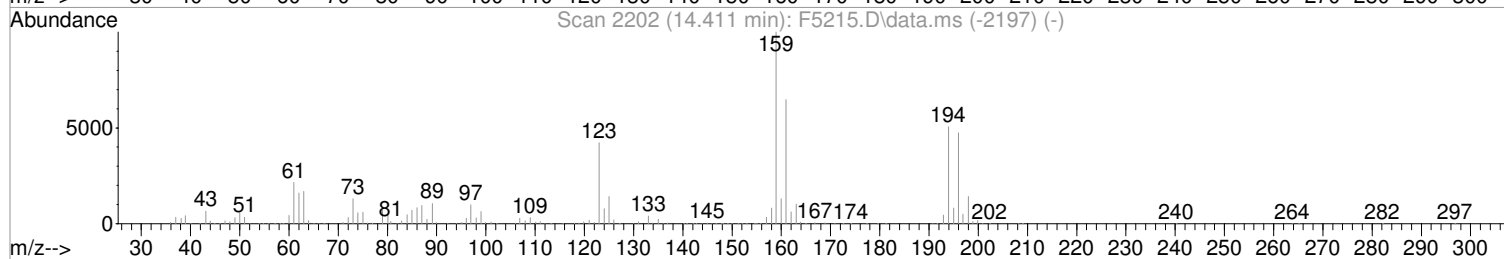
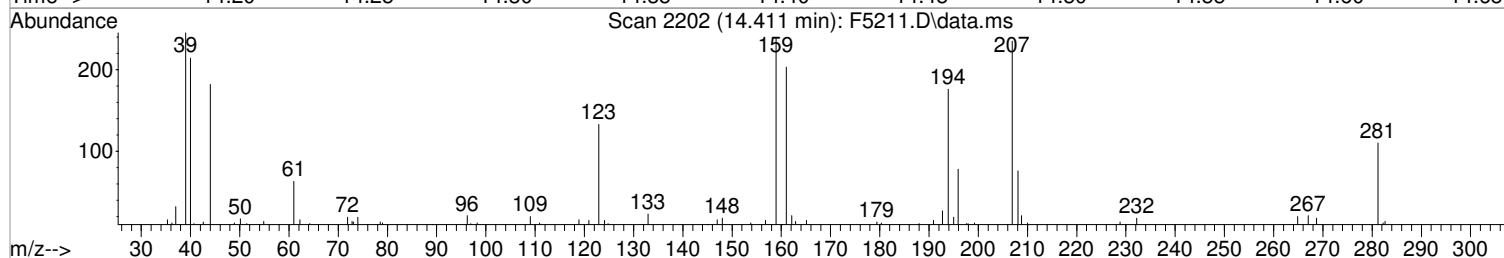
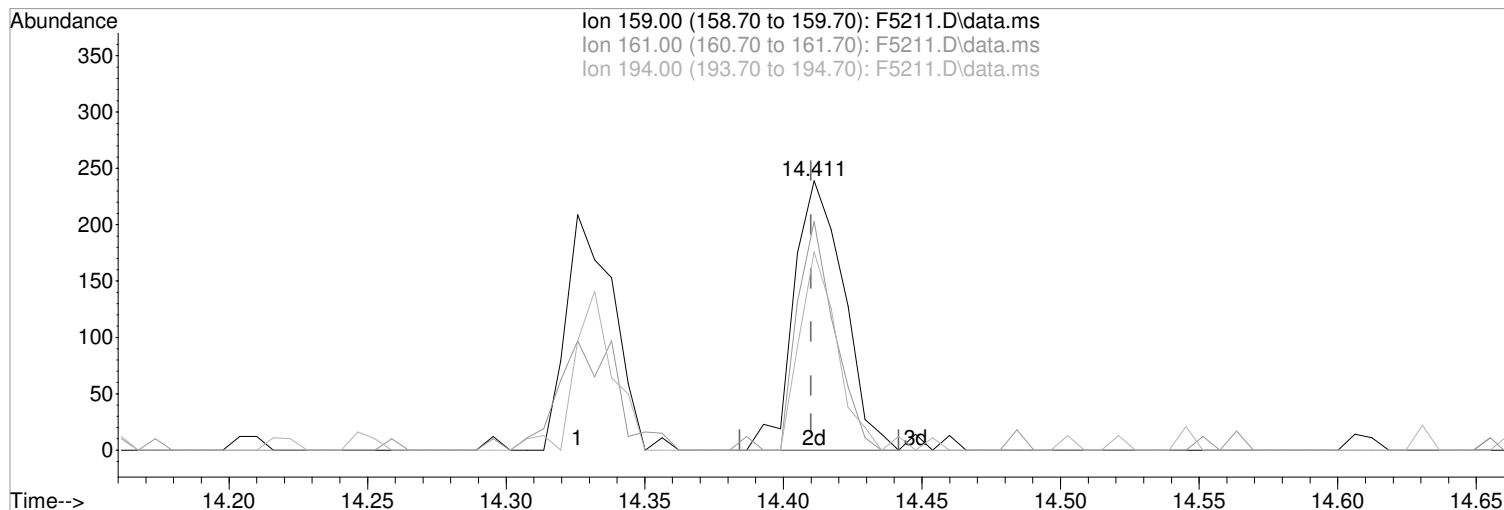
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



TIC: F5211.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.411min (+0.001) 0.29 ug/L m

response 300

Ion	Exp%	Act%
159.00	100	100
161.00	60.50	84.94#
194.00	47.00	73.64#
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

04/01/19

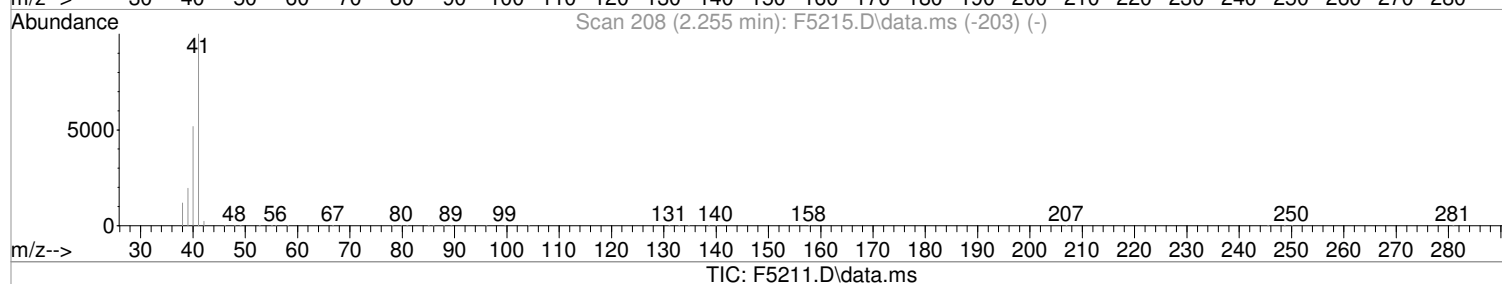
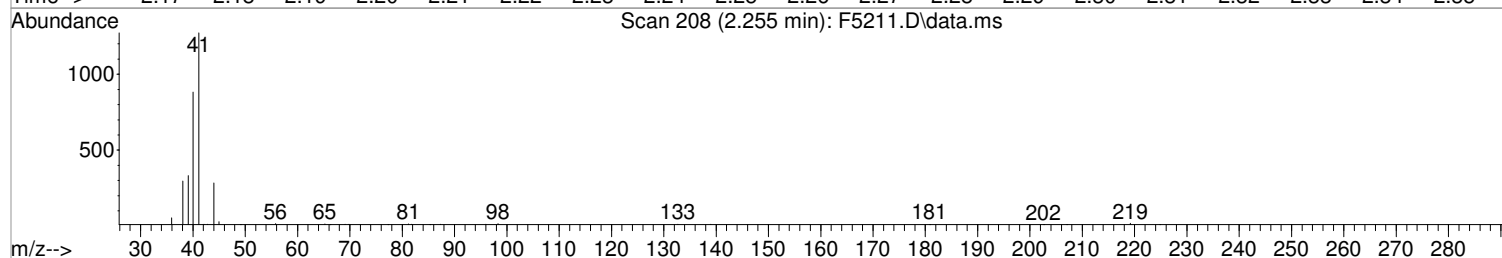
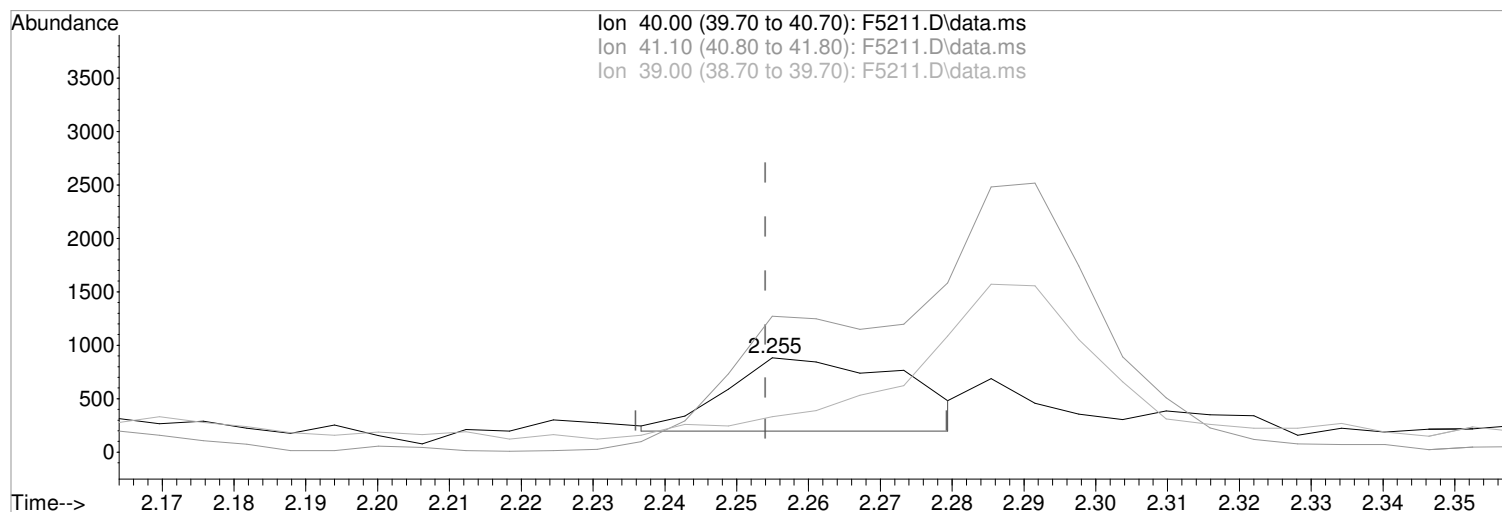
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



(19) Acetonitrile

2.255min (+0.001) 6.30 ug/L m

response 1190

Ion	Exp%	Act%
40.00	100	100
41.10	175.00	144.22#
39.00	38.30	37.64
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

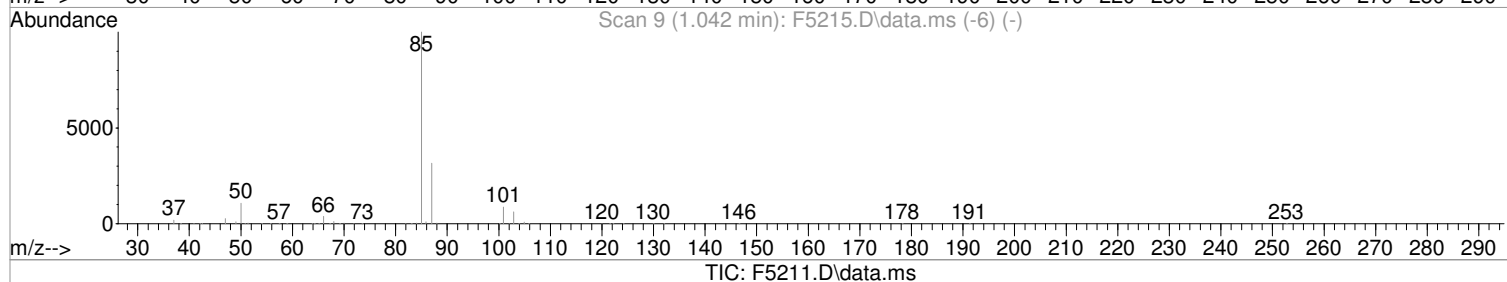
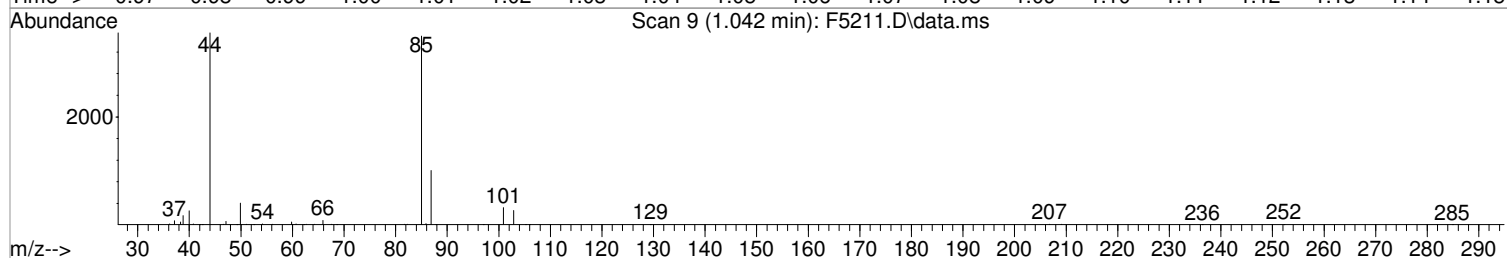
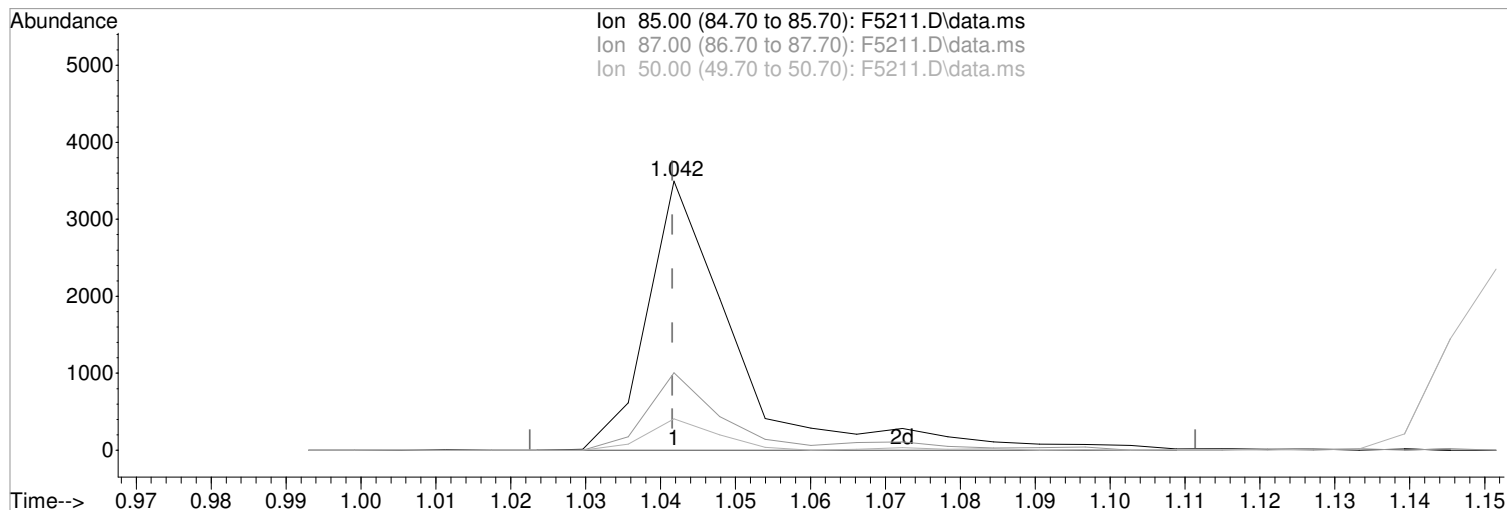
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (+0.000) 0.85 ug/L m

response 2853

Ion	Exp%	Act%
85.00	100	100
87.00	33.30	28.82
50.00	14.00	11.71
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

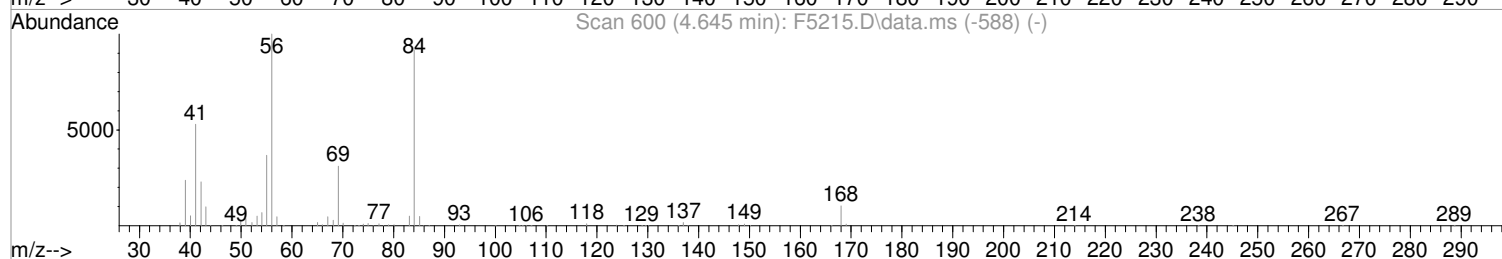
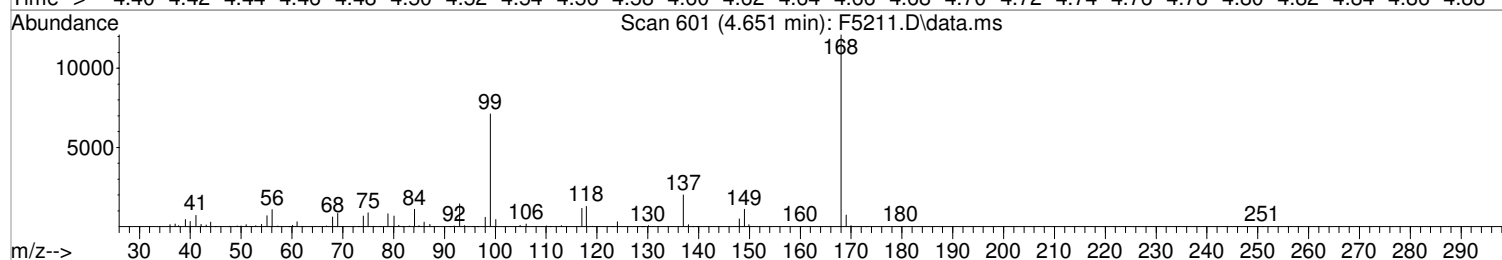
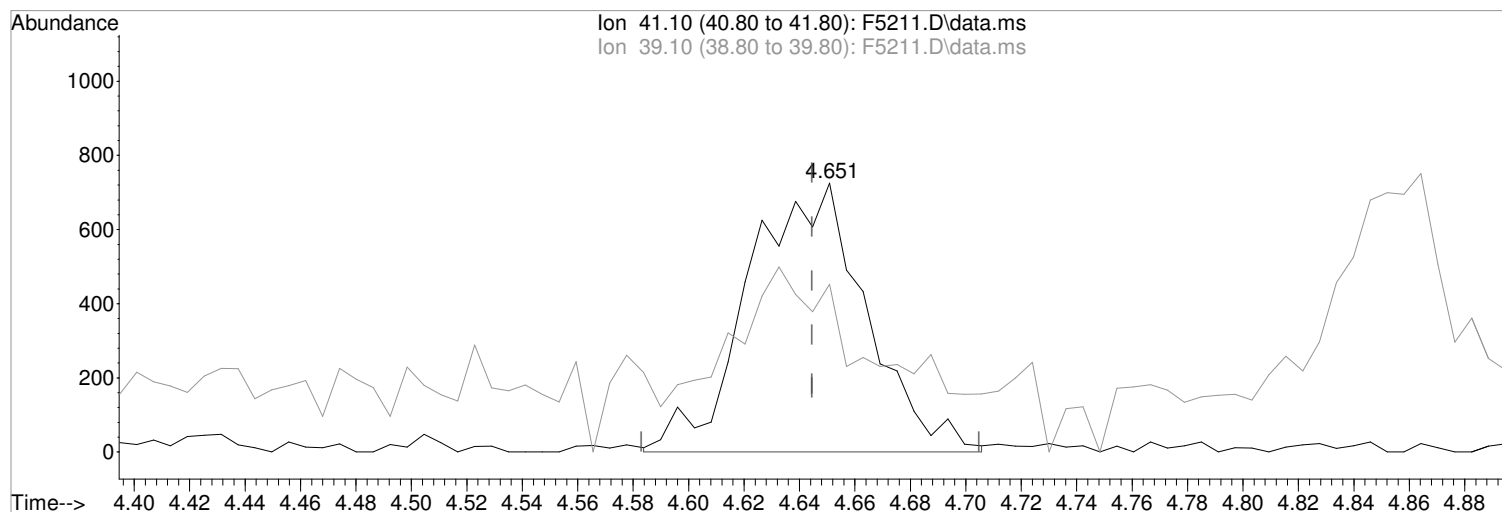
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



TIC: F5211.D\data.ms

(43) Cyclohexane (P)

4.651min (+0.006) 1.23 ug/L m

response 2141

Ion	Exp%	Act%
41.10	100	100
39.10	54.90	62.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

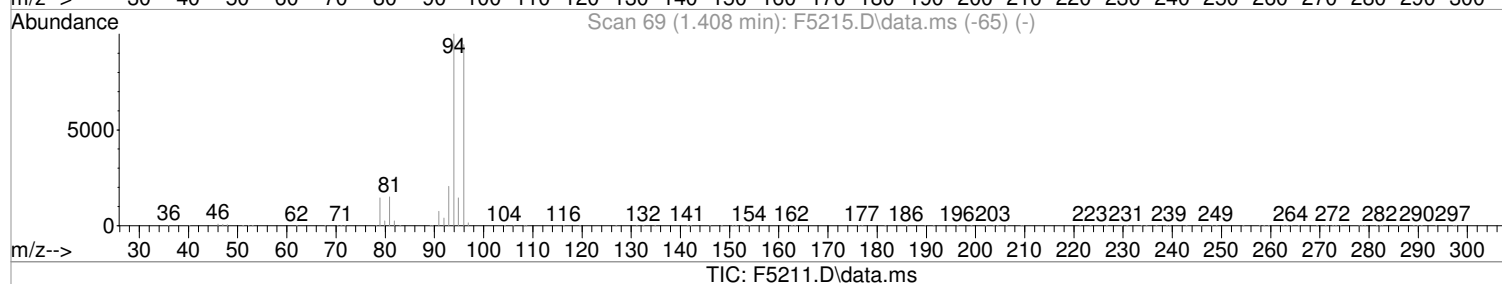
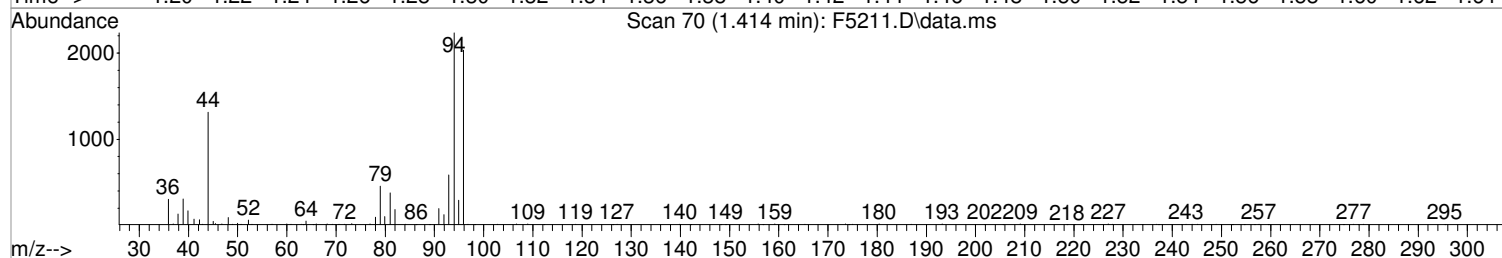
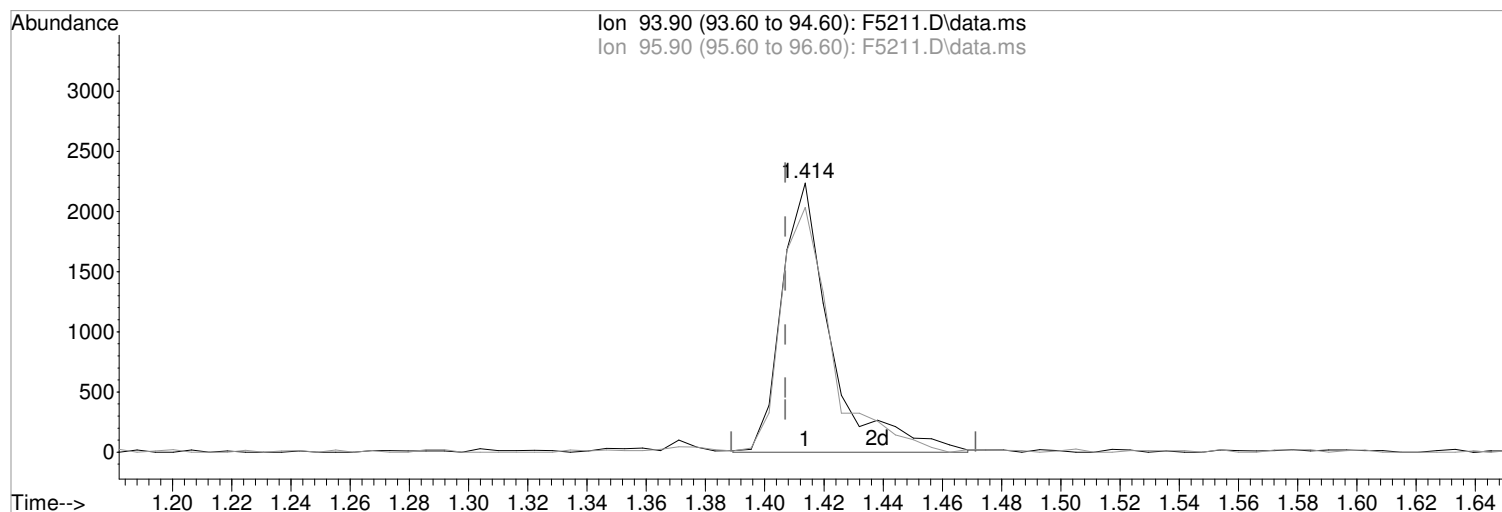
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



(5) Bromomethane (P)

1.414min (+0.007) 1.97 ug/L m

response 2575

Ion	Exp%	Act%
93.90	100	100
95.90	95.90	90.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

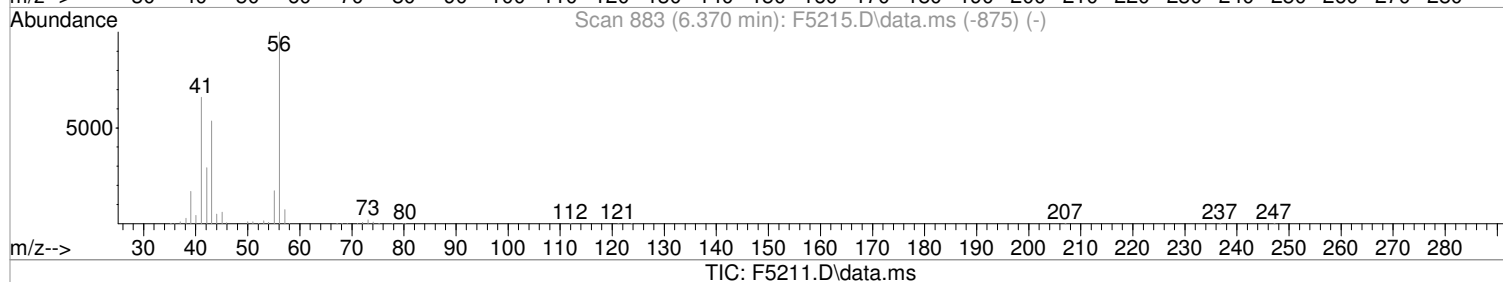
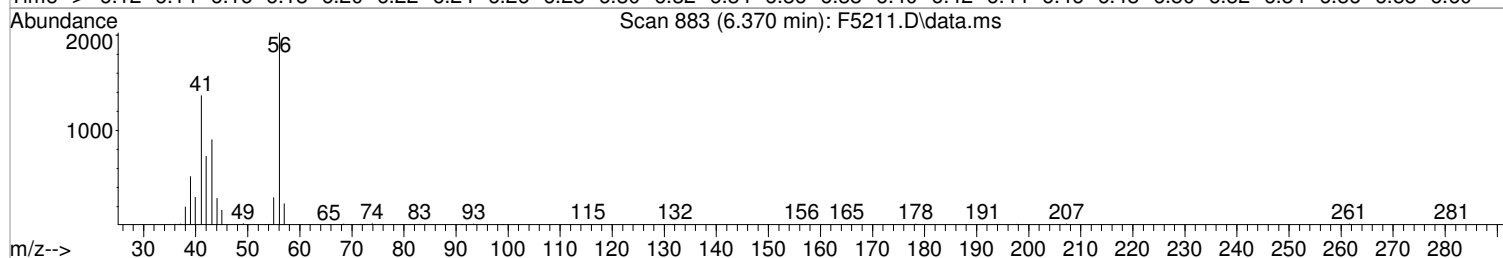
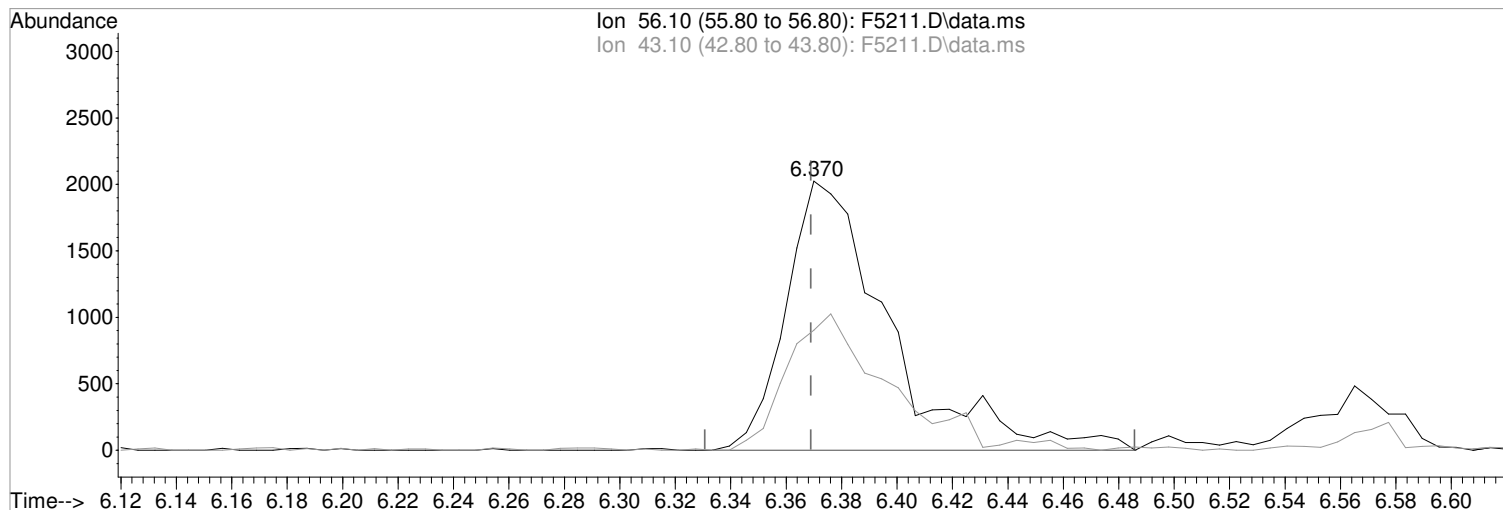
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



(52) 1-Butanol

6.370min (+0.001) 48.87 ug/L m

response 5234

Ion	Exp%	Act%
56.10	100	100
43.10	54.40	44.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

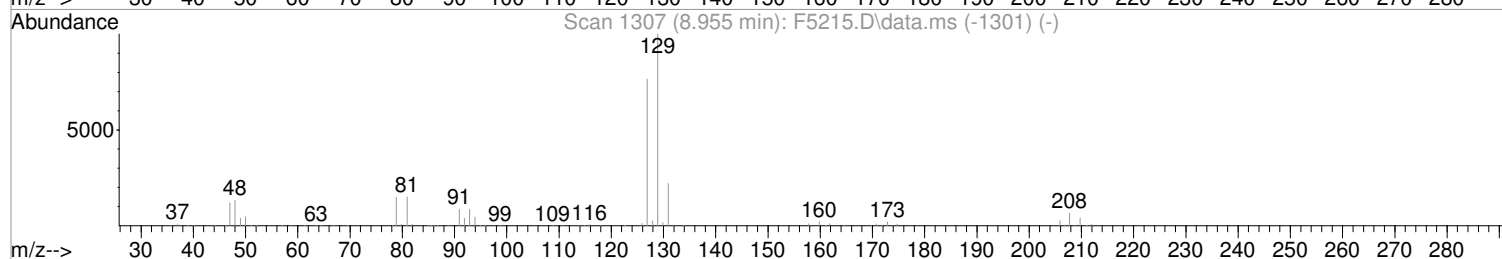
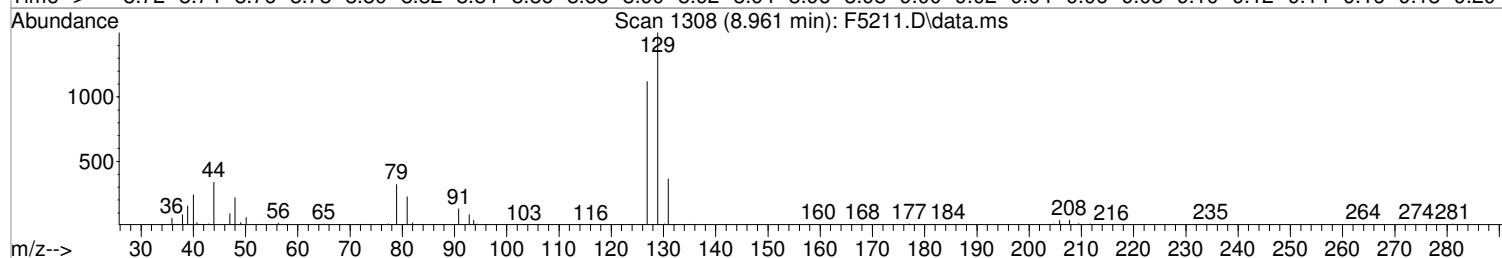
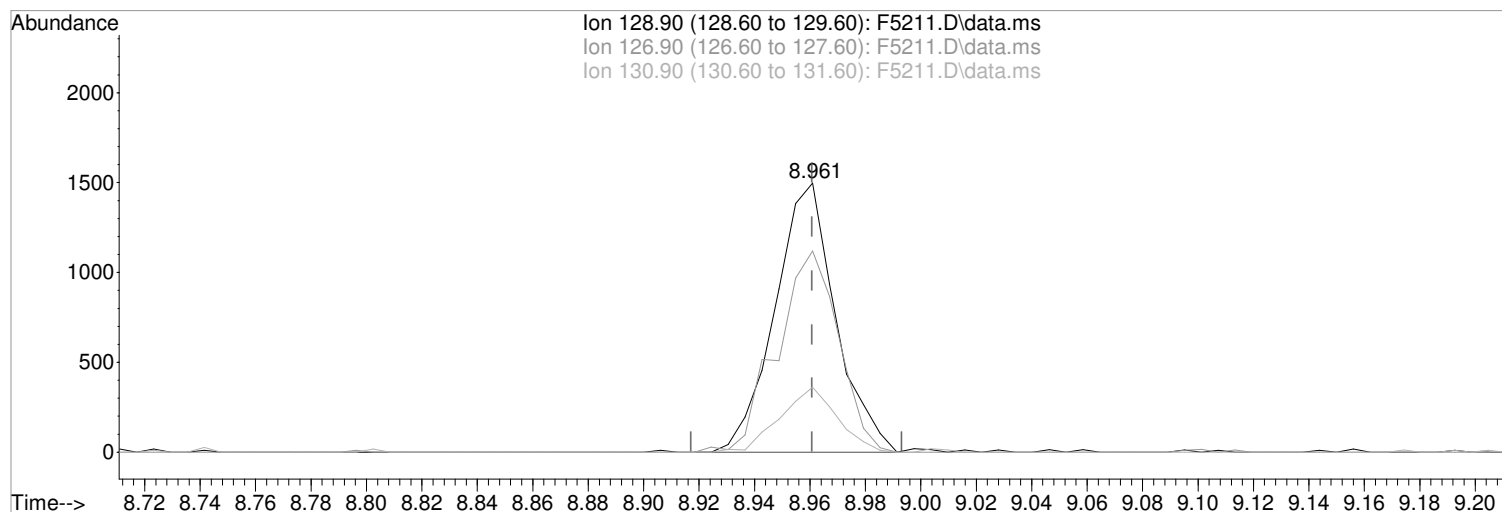
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5211.D
Acq On : 26 Mar 2019 1:15 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



TIC: F5211.D\data.ms

(74) Dibromochloromethane (P)

8.961min (+0.000) 0.90 ug/L m

response 2276

Ion Exp% Act%

128.90 100 100

126.90 80.20 74.75

130.90 22.00 24.18

0.00 0.00 0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5211.D
 Acq On : 26 Mar 2019 1:15 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 13:58:31 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	258806	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	388207	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	337215	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	179653	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	29896	12.55	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	25.10%#
47) surr1,1,2-dichloroetha...	5.120	65	36396	13.76	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	27.52%#
64) SURR3,Toluene-d8	7.943	98	122732	13.36	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	26.72%#
69) SURR2,BFB	10.723	95	47717	13.87	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	27.74%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	2853m	0.85	ug/L	
3) Chloromethane	1.152	50	3420	1.47	ug/L	96
4) Vinyl Chloride	1.219	62	2758	1.46	ug/L	83
5) Bromomethane	1.414	94	2575m	1.97	ug/L	
6) Chloroethane	1.481	64	2021	2.15	ug/L	76
7) Freon 21	1.603	67	4369	1.85	ug/L	99
8) Trichlorofluoromethane	1.651	101	3449	1.45	ug/L	90
9) Diethyl Ether	1.847	59	2549	1.42	ug/L	92
10) Freon 123a	1.847	67	2734	1.29	ug/L	92
11) Freon 123	1.889	83	3025	1.12	ug/L	94
12) Acrolein	1.932	56	3428	5.92	ug/L	91
13) 1,1-Dicethene	2.011	96	2068	1.05	ug/L	91
14) Freon 113	2.017	101	1966	1.05	ug/L	92
15) Acetone	2.048	43	2016	1.96	ug/L	94
16) 2-Propanol	2.164	45	4756	22.84	ug/L	97
17) Iodomethane	2.121	142	1158	0.40	ug/L	91
18) Carbon Disulfide	2.176	76	5588	1.02	ug/L	98
19) Acetonitrile	2.255	40	1190m	6.30	ug/L	
20) Allyl Chloride	2.285	76	1332	1.18	ug/L	# 83
21) Methyl Acetate	2.316	43	2538	1.21	ug/L	96
22) Methylene Chloride	2.389	84	2845	1.21	ug/L	98
23) TBA	2.505	59	8306	23.01	ug/L	96
24) Acrylonitrile	2.609	53	7061	6.53	ug/L	89
25) Methyl-t-Butyl Ether	2.657	73	8091	1.15	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	2516	1.13	ug/L	97
27) 1,1-Dicethane	3.072	63	4328	1.15	ug/L	92
28) Vinyl Acetate	3.151	86	502	0.97	ug/L	# 58
29) DIPE	3.188	45	7306	1.19	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.176	53	2795	0.99	ug/L	97
31) ETBE	3.633	59	7152	1.13	ug/L	93
32) 2,2-Dichloropropane	3.773	77	3409	1.07	ug/L	87
33) cis-1,2-Dichloroethene	3.791	96	2887	1.16	ug/L	# 72
34) 2-Butanone	3.840	43	2065	1.49	ug/L	95
35) Propionitrile	3.895	54	2779	6.32	ug/L	98
36) Bromochloromethane	4.120	130	1905	1.07	ug/L	# 75
37) Methacrylonitrile	4.127	67	1423	1.20	ug/L	# 74
38) Tetrahydrofuran	4.230	42	1319	1.52	ug/L	# 59
39) Chloroform	4.267	83	4305	1.14	ug/L	88
40) 1,1,1-Trichloroethane	4.547	97	3256	0.98	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5211.D
 Acq On : 26 Mar 2019 1:15 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 13:58:31 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.517	73	6942	1.08	ug/L	91
43) Cyclohexane	4.651	41	2141m	1.23	ug/L	
45) Carbontetrachloride	4.840	117	2726	0.92	ug/L #	74
46) 1,1-Dichloropropene	4.852	75	3150	1.05	ug/L	83
48) Benzene	5.218	78	9864	1.05	ug/L	96
49) 1,2-Dichloroethane	5.260	62	3513	1.08	ug/L	96
50) Iso-Butyl Alcohol	5.260	43	3476	22.75	ug/L	99
51) n-Heptane	5.803	43	2459	1.05	ug/L	90
52) 1-Butanol	6.370	56	5234m	48.87	ug/L	
53) Trichloroethene	6.297	130	2777	0.98	ug/L #	85
54) Methylcyclohexane	6.571	55	2803	1.11	ug/L #	77
55) 1,2-Dicloropropane	6.614	63	2795	1.15	ug/L	95
56) Dibromomethane	6.766	93	1784	1.03	ug/L #	78
57) 1,4-Dioxane	6.852	88	1113	23.28	ug/L	97
58) Methyl Methacrylate	6.888	69	2256	1.08	ug/L	98
59) Bromodichloromethane	7.022	83	2921	0.97	ug/L	95
60) 2-Nitropropane	7.333	41	1395	2.31	ug/L #	80
61) 2-Chloroethylvinyl Ether	7.492	63	359	0.79	ug/L #	61
62) cis-1,3-Dichloropropene	7.626	75	3801	0.95	ug/L	97
63) 4-Methyl-2-pentanone	7.864	43	2970	1.11	ug/L	79
65) Toluene	8.022	91	10416	1.00	ug/L	96
66) trans-1,3-Dichloropropene	8.321	75	3214	0.87	ug/L	94
67) Ethyl Methacrylate	8.504	69	3403	0.94	ug/L	87
68) 1,1,2-Trichloroethane	8.528	97	2551	0.99	ug/L	88
71) Tetrachloroethene	8.674	164	2389	1.03	ug/L #	65
72) 2-Hexanone	8.870	43	2184	1.14	ug/L	90
73) 1,3-Dichloropropane	8.711	76	4437	1.08	ug/L	92
74) Dibromochloromethane	8.961	129	2276m	0.90	ug/L	
75) N-Butyl Acetate	9.052	43	3606	0.99	ug/L	88
76) 1,2-Dibromoethane	9.059	107	2788	1.06	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	3479	0.86	ug/L	95
78) Chlorobenzene	9.607	112	7013	1.00	ug/L	91
79) 4-Chlorobenzotrifluoride	9.711	180	3306	0.92	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.705	131	1997	0.81	ug/L	84
81) Ethylbenzene	9.747	106	3254	0.88	ug/L	92
82) (m+p)Xylene	9.869	106	8823	1.96	ug/L	97
83) o-Xylene	10.247	106	4323	0.98	ug/L #	77
84) Styrene	10.259	104	6664	0.90	ug/L	99
85) Bromoform	10.406	173	1303	0.73	ug/L	92
86) 2-Chlorobenzotrifluoride	10.509	180	3572	0.89	ug/L	98
87) Isopropylbenzene	10.607	105	10246	0.92	ug/L	90
88) Cyclohexanone	10.656	55	11090	21.40	ug/L	85
89) trans-1,4-Dichloro-2-B...	10.930	53	869	1.12	ug/L	79
91) 1,1,2,2-Tetrachloroethane	10.875	83	3745	1.14	ug/L	87
92) Bromobenzene	10.845	156	3152	1.02	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	1206	1.03	ug/L	97
94) n-Propylbenzene	10.973	91	11989	1.05	ug/L	98
95) 2-Chlorotoluene	11.034	91	7614	1.08	ug/L	91
96) 3-Chlorotoluene	11.089	91	7382	1.05	ug/L	97
97) 4-Chlorotoluene	11.131	91	9090	1.14	ug/L	98
98) 1,3,5-Trimethylbenzene	11.137	105	8310	0.99	ug/L	97
99) tert-Butylbenzene	11.418	119	7479	0.99	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	8205	0.98	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.528	214	2687	0.90	ug/L	97
102) sec-Butylbenzene	11.607	105	10257	0.97	ug/L	98
103) p-Isopropyltoluene	11.735	119	8555	0.94	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5211.D
 Acq On : 26 Mar 2019 1:15 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:02:09 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 13:58:31 2019
 Response via : Initial Calibration

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

104) 1,3-Dclbenz	11.674	146	5670	1.01	ug/L	96
105) 1,4-Dclbenz	11.753	146	6159	1.05	ug/L	94
106) 2,4-Dichlorobenzotrifl...	11.820	214	2328	0.85	ug/L	94
107) 2,5-Dichlorobenzotrifl...	11.869	214	2629	0.86	ug/L	97
108) n-Butylbenzene	12.070	91	7285	0.99	ug/L	96
109) 1,2-Dclbenz	12.058	146	5746	1.03	ug/L	95
110) 1,2-Dibromo-3-chloropr...	12.692	157	668	0.77	ug/L	90
111) Trielution Dichlorotol...	12.820	125	11132	2.74	ug/L	89
112) 1,3,5-Trichlorobenzene	12.875	180	3236	0.84	ug/L	89
113) Coelution Dichlorotoluene	13.149	125	7322	1.69	ug/L	92
114) 1,2,4-Tcbenzene	13.363	180	2753	0.78	ug/L	94
115) Hexachlorobt	13.509	225	1801	1.02	ug/L	92
116) Naphthalen	13.545	128	5958	0.64	ug/L	93
117) 1,2,3-Tclbenzene	13.741	180	2442	0.72	ug/L	84
118) 2,4,5-Trichlorotoluene	14.326	159	249	0.27	ug/L	88
119) 2,3,6-Trichlorotoluene	14.411	159	300m	0.29	ug/L	

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

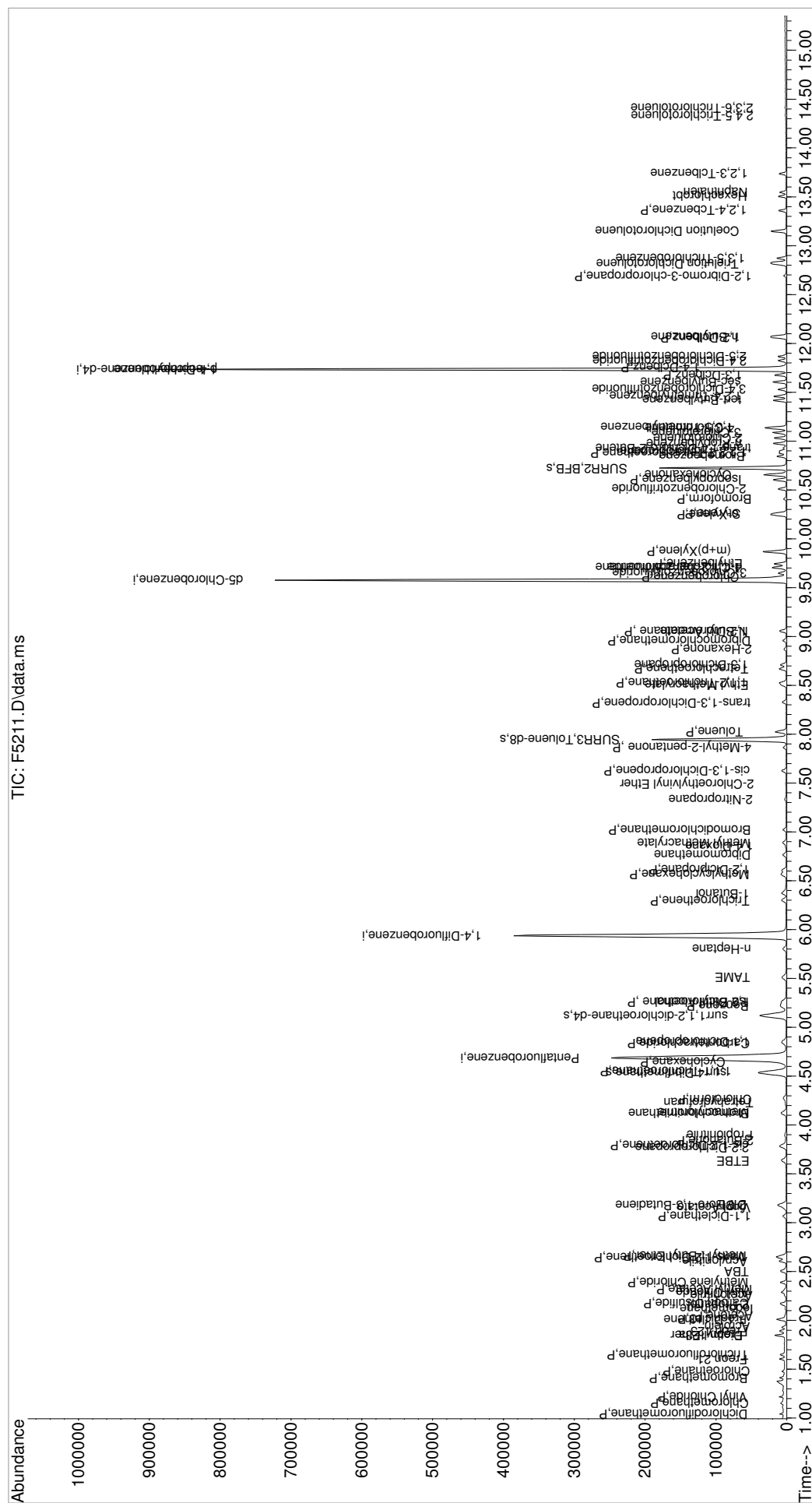
Quantitation Report (QT Reviewed)

Data Path	:	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	:	F5211.D
Acq On	:	:	26 Mar 2019 1:15 pm
Operator	:	:	F.NAEGLER
Sample	:	:	1.0 PPB STD
Misc	:	:	
ALS Vial	:	:	3 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 26 14:02:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 13:58:31 2019
Response via : Initial Calibration



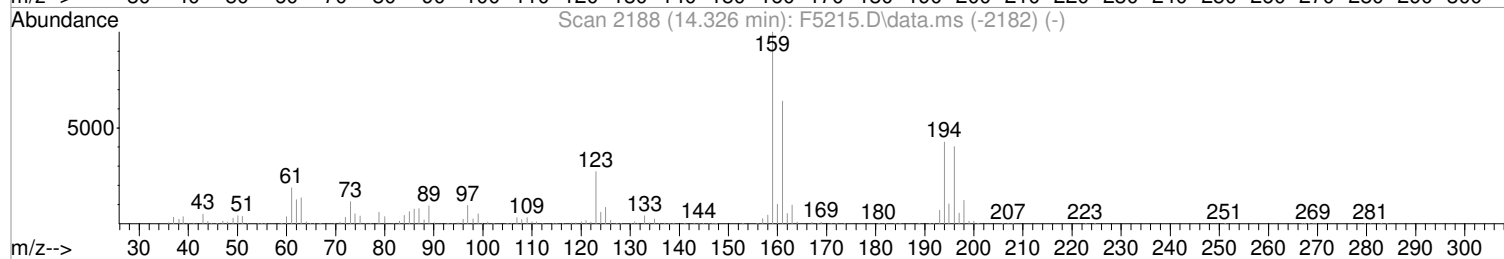
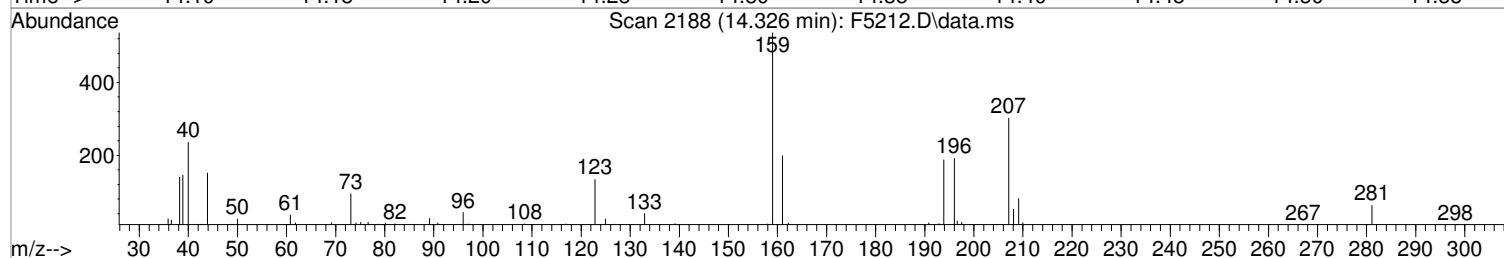
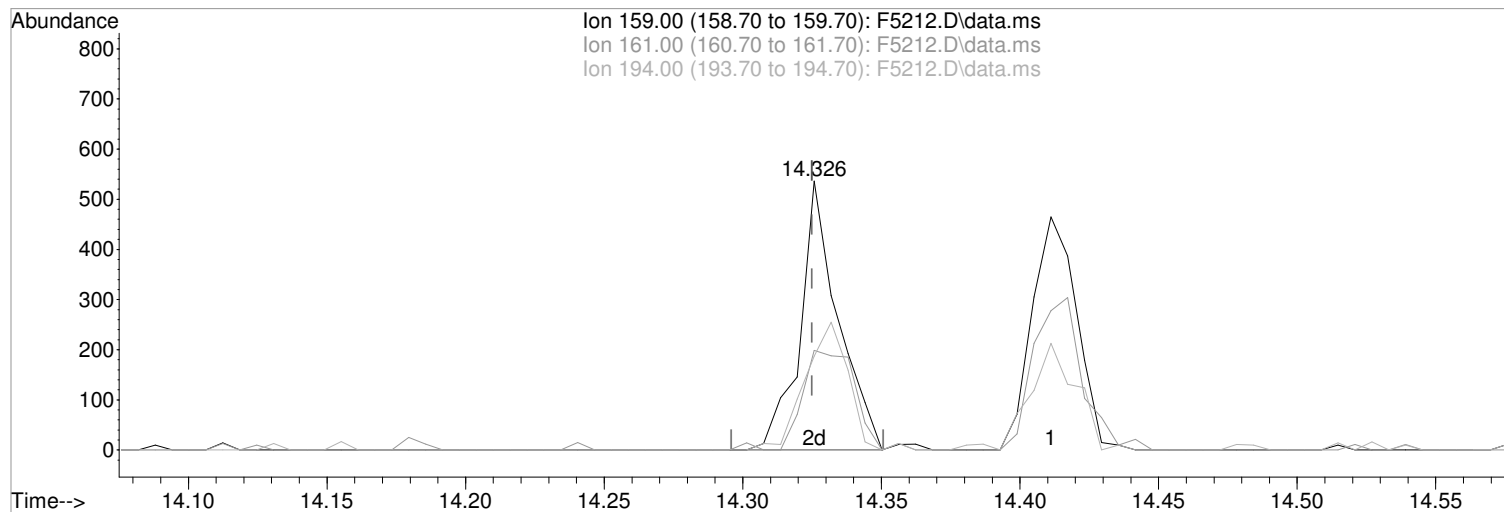
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



TIC: F5212.D\data.ms

(118) 2,4,5-Trichlorotoluene

14.326min (+0.001) 0.56 ug/L m

response 510

Ion	Exp%	Act%
159.00	100	100
161.00	61.80	37.13#
194.00	47.40	34.89
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

04/01/19

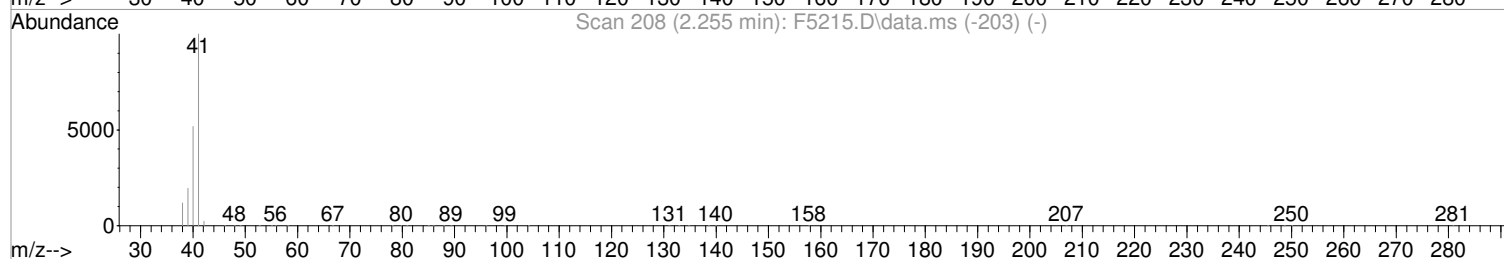
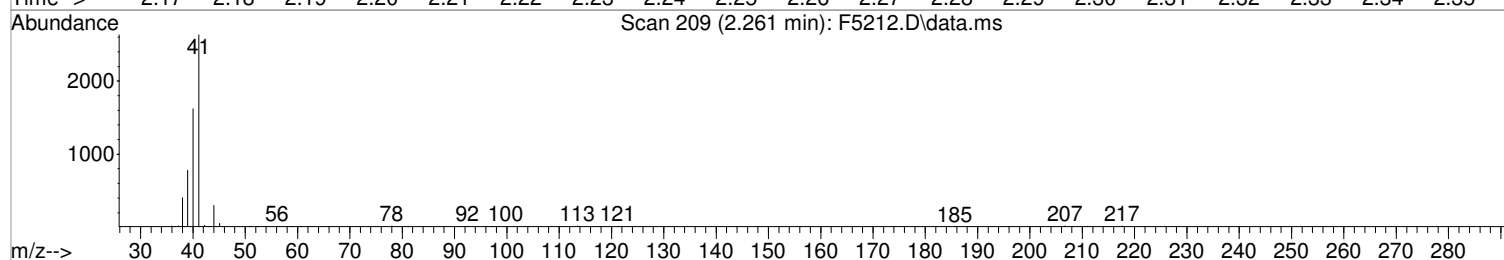
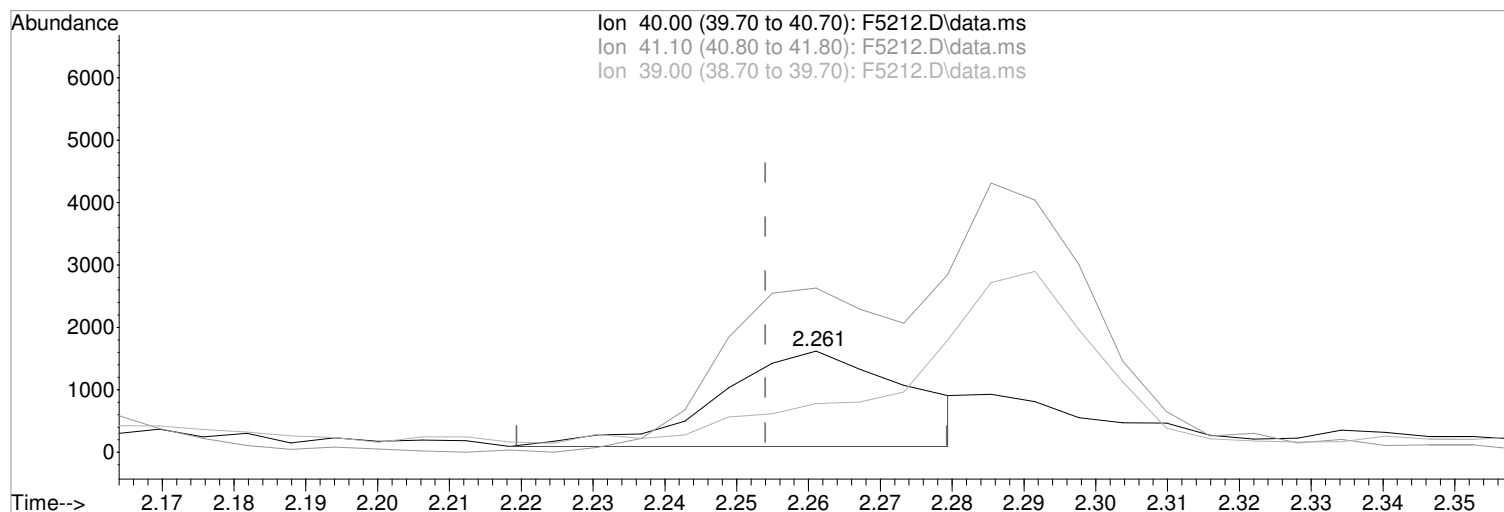
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



TIC: F5212.D\data.ms

(19) Acetonitrile

2.261min (+0.007) 14.65 ug/L m

response 2812

Ion	Exp%	Act%
40.00	100	100
41.10	175.00	162.31
39.00	38.30	48.24
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

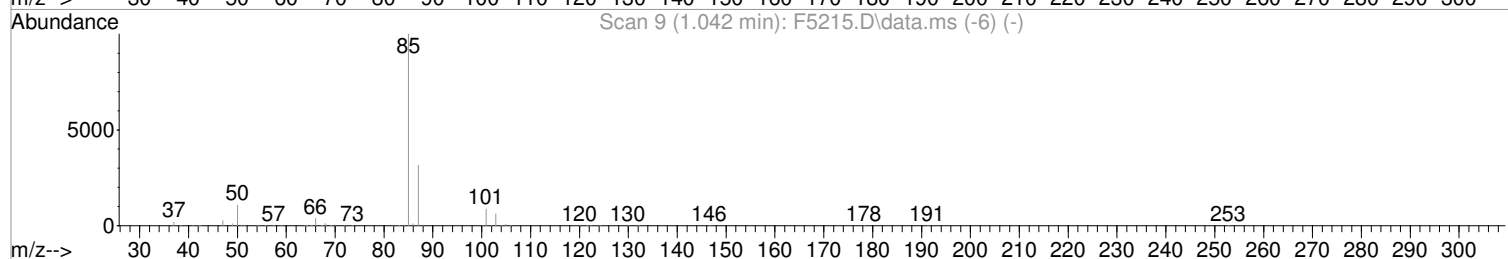
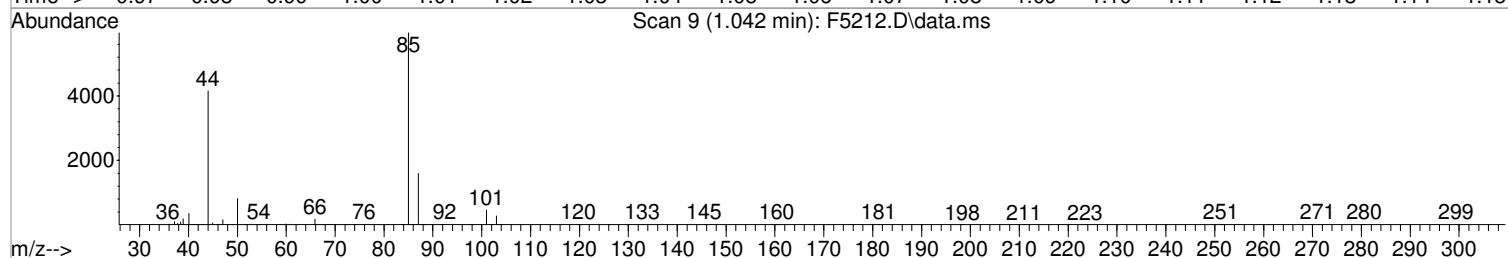
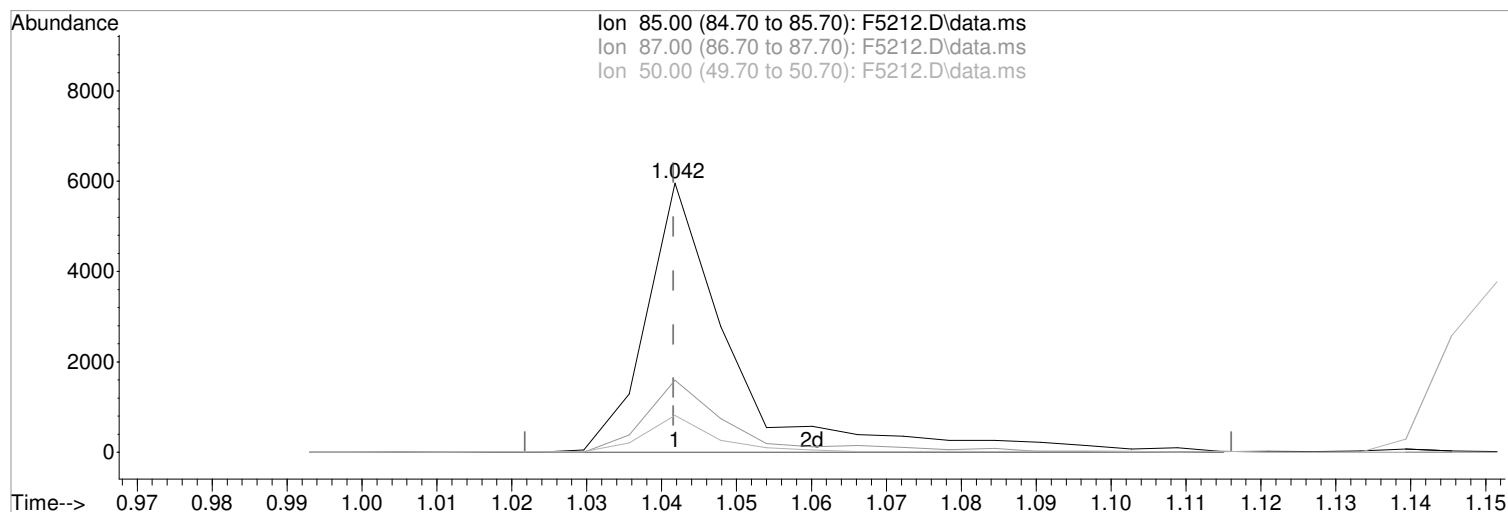
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



TIC: F5212.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (+0.000) 1.45 ug/L m

response 4758

Ion	Exp%	Act%
85.00	100	100
87.00	33.30	26.81
50.00	14.00	13.72
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

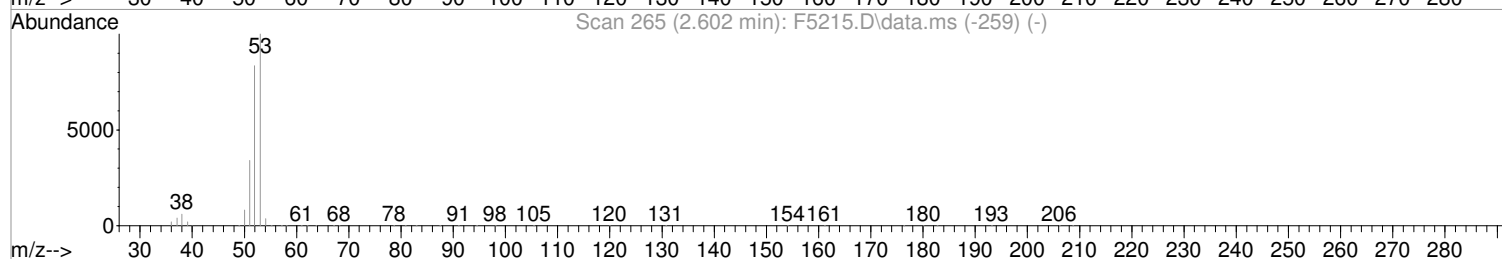
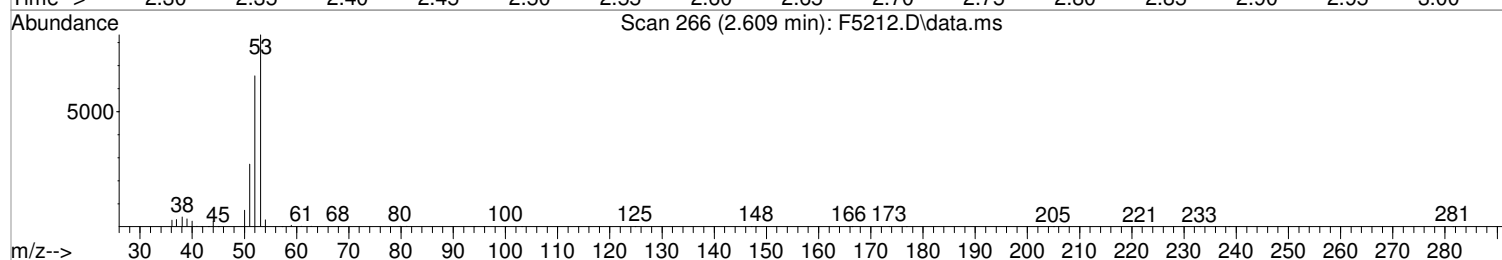
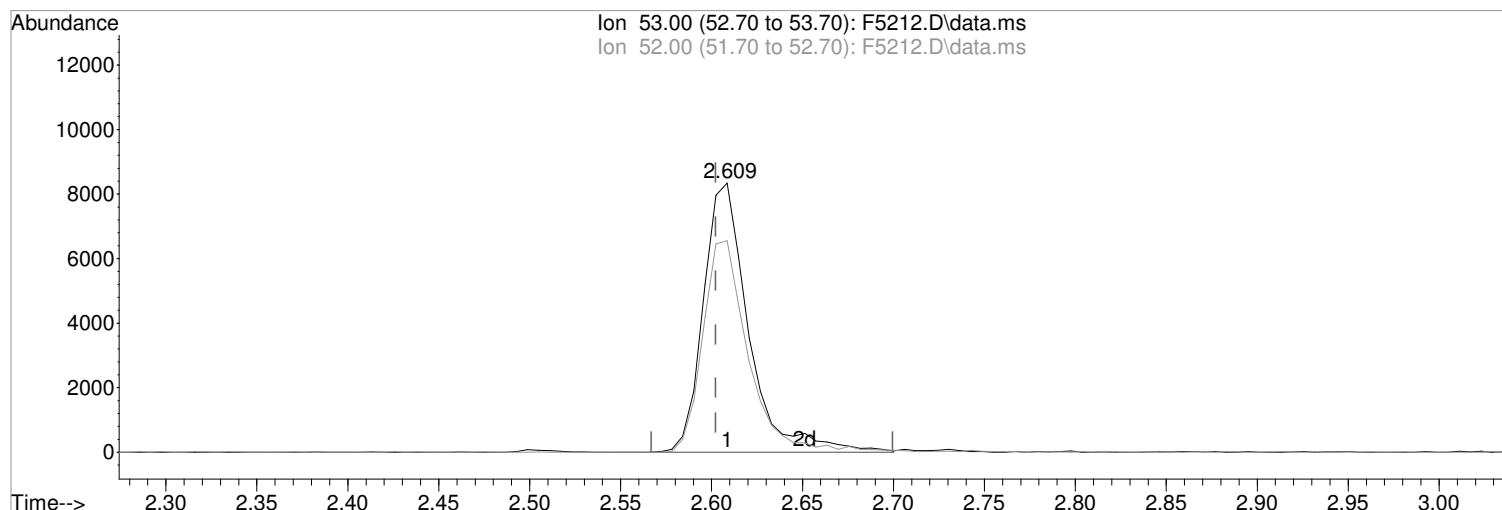
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



TIC: F5212.D\data.ms

(24) Acrylonitrile

2.609min (+0.006) 12.85 ug/L m

response 14455

Ion	Exp%	Act%
53.00	100	100
52.00	84.90	78.69
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

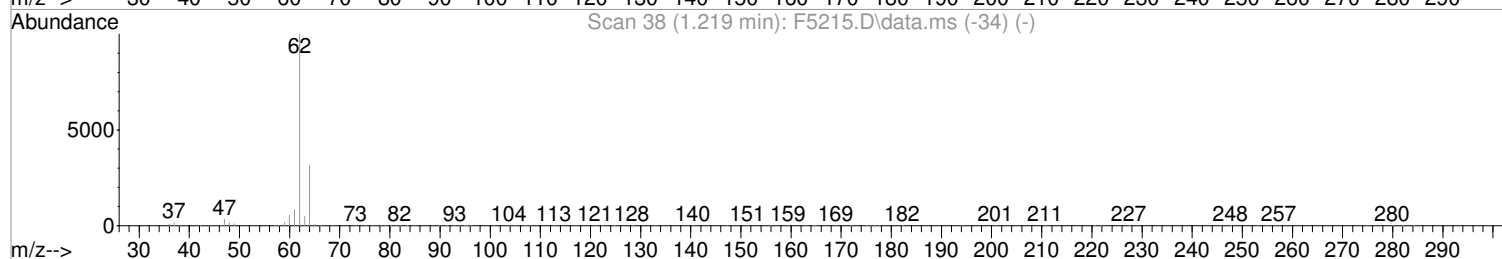
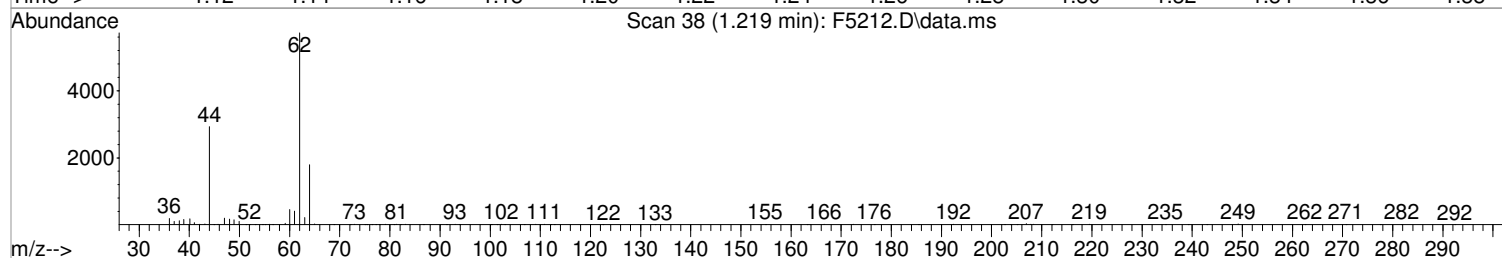
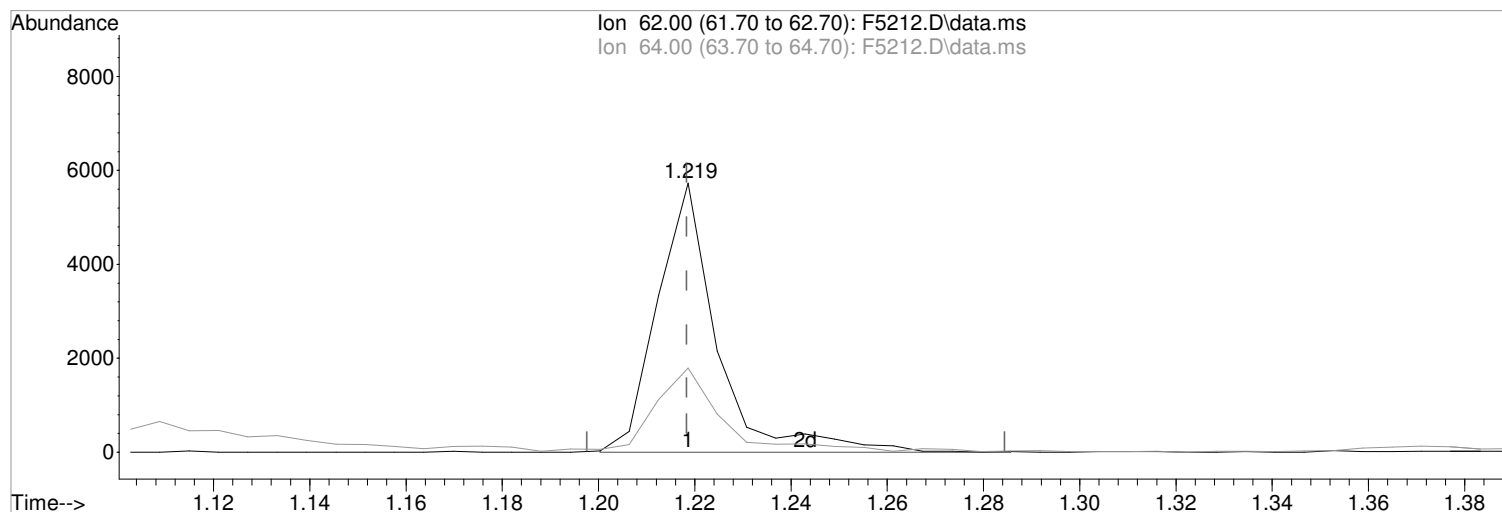
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



TIC: F5212.D\data.ms

(4) Vinyl Chloride (P)

1.219min (+0.000) 2.48 ug/L m

response 4939

Ion	Exp%	Act%
62.00	100	100
64.00	32.40	31.28
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

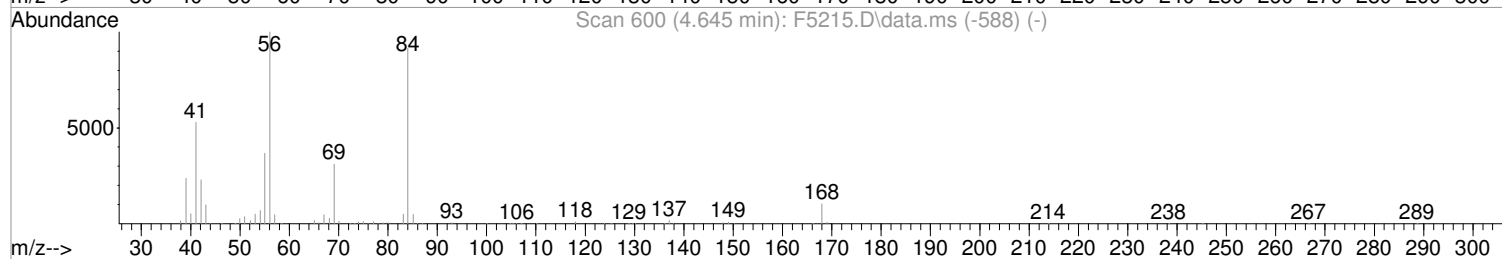
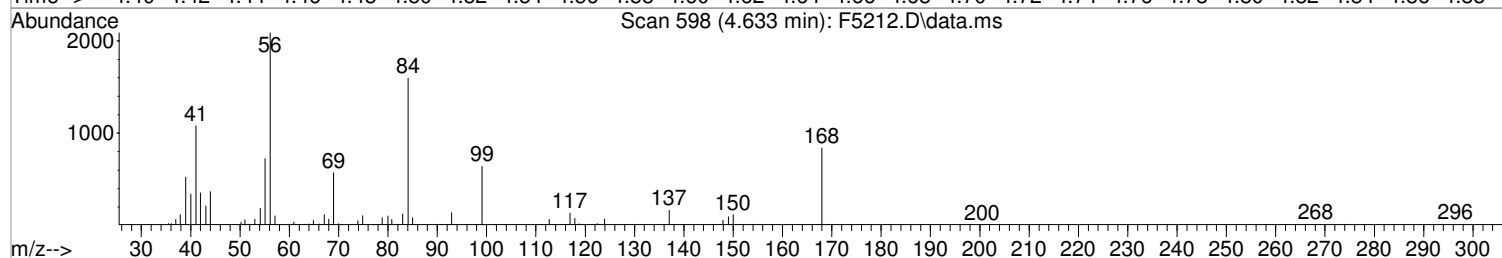
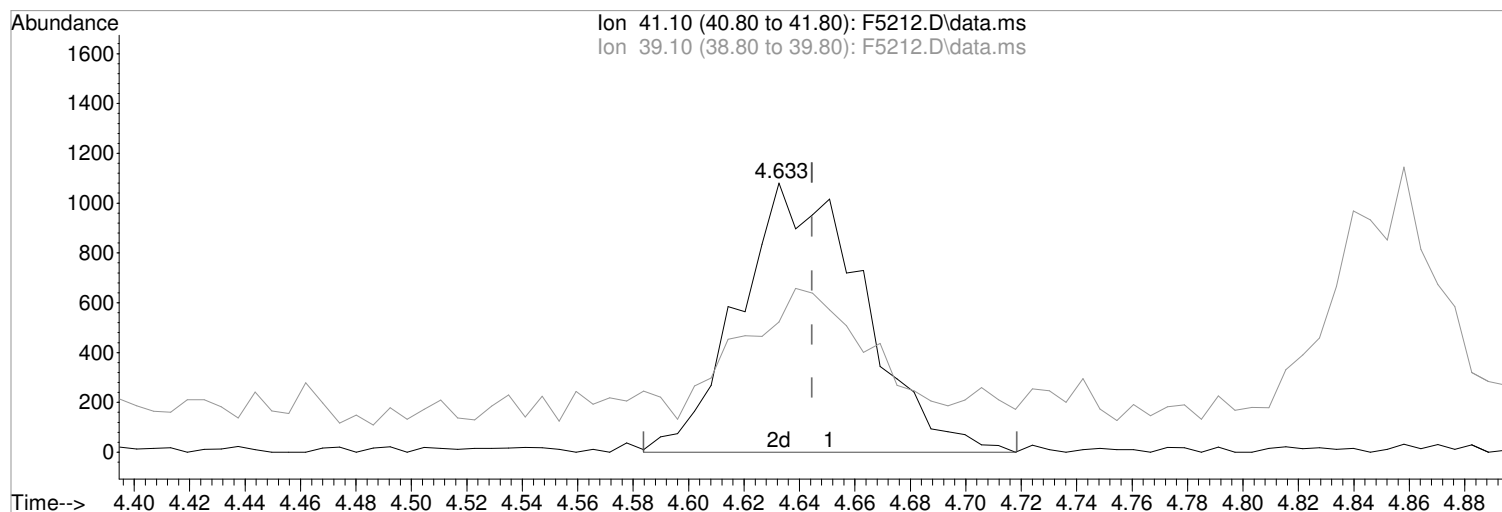
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



TIC: F5212.D\data.ms

(43) Cyclohexane (P)

4.633min (-0.012) 1.90 ug/L m

response 3340

Ion	Exp%	Act%
41.10	100	100
39.10	54.90	48.43
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

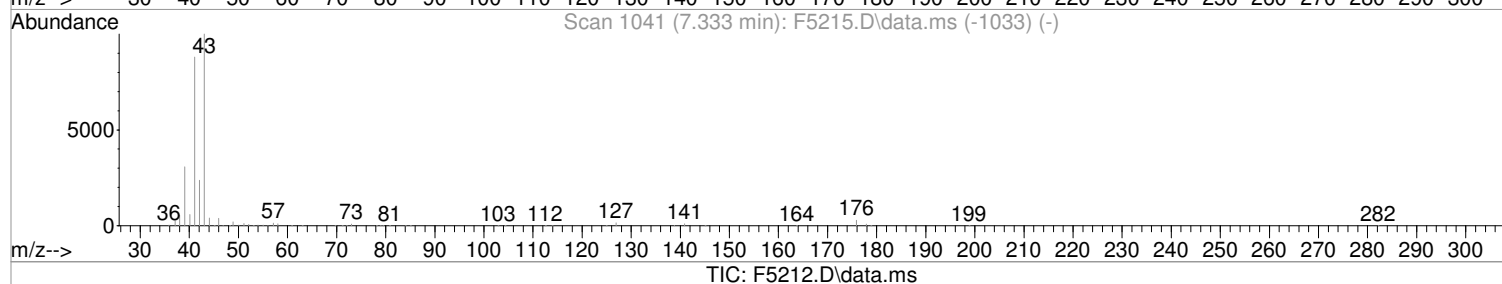
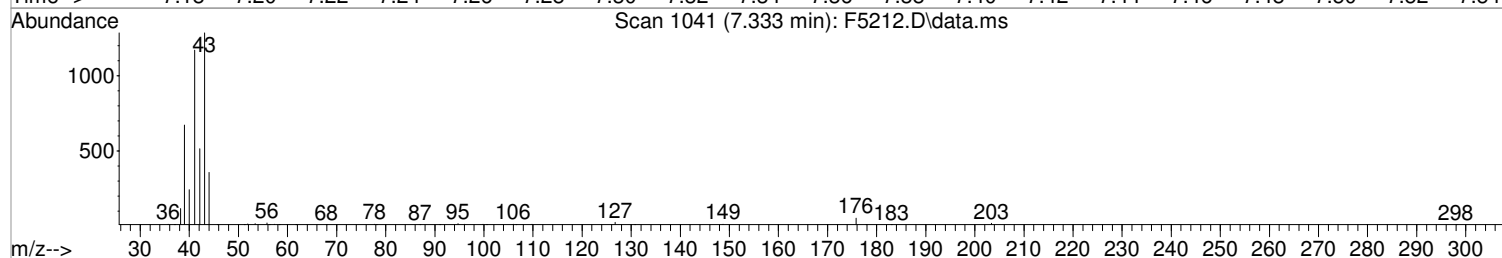
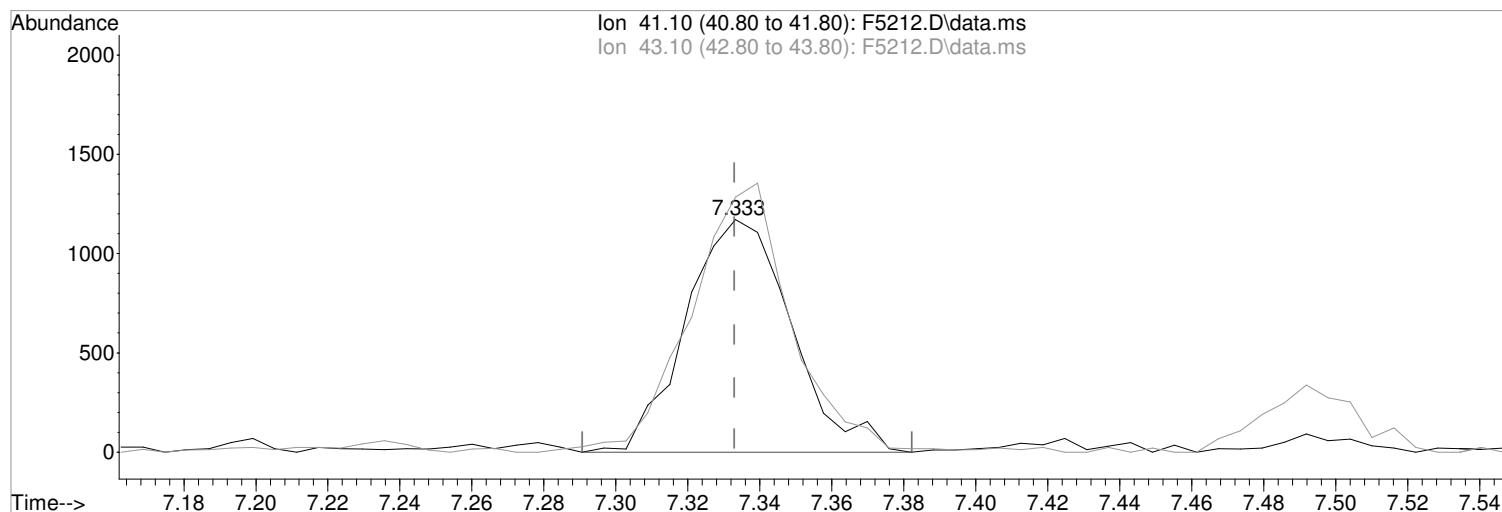
Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



(60) 2-Nitropropane

Manual Integration:

7.333min (+0.000) 3.86 ug/L m

After

response 2386

Poor integration.

Ion	Exp%	Act%
41.10	100	100
43.10	111.10	109.74
0.00	0.00	0.00
0.00	0.00	0.00

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5212.D
 Acq On : 26 Mar 2019 1:37 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 14:02:20 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	255666	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	384660	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	335679	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	179422	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	29715	12.59	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	25.18%#
47) surr1,1,2-dichloroetha...	5.120	65	34899	13.31	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	26.62%#
64) SURR3,Toluene-d8	7.943	98	123351	13.55	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	27.10%#
69) SURR2,BFB	10.723	95	47535	13.94	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	27.88%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	4758m	1.45	ug/L	
3) Chloromethane	1.152	50	6071	2.47	ug/L	92
4) Vinyl Chloride	1.219	62	4939m	2.48	ug/L	
5) Bromomethane	1.408	94	4419	3.15	ug/L	97
6) Chloroethane	1.481	64	3099	2.92	ug/L	96
7) Freon 21	1.603	67	7689	3.02	ug/L	97
8) Trichlorofluoromethane	1.651	101	5760	2.35	ug/L	88
9) Diethyl Ether	1.847	59	4715	2.52	ug/L	93
10) Freon 123a	1.847	67	4716	2.19	ug/L	93
11) Freon 123	1.889	83	5218	1.94	ug/L	91
12) Acrolein	1.932	56	6844	11.65	ug/L	96
13) 1,1-Dicethene	2.011	96	3689	1.88	ug/L	94
14) Freon 113	2.011	101	3087	1.66	ug/L	91
15) Acetone	2.048	43	3073	2.70	ug/L	93
16) 2-Propanol	2.164	45	10144	48.32	ug/L	97
17) Iodomethane	2.121	142	2461	0.92	ug/L	86
18) Carbon Disulfide	2.176	76	9299	1.71	ug/L	99
19) Acetonitrile	2.261	40	2812m	14.65	ug/L	
20) Allyl Chloride	2.285	76	2068	1.81	ug/L	# 81
21) Methyl Acetate	2.316	43	5260	2.50	ug/L	97
22) Methylene Chloride	2.389	84	5301	2.25	ug/L	97
23) TBA	2.505	59	16904	46.38	ug/L	92
24) Acrylonitrile	2.609	53	14455m	12.85	ug/L	
25) Methyl-t-Butyl Ether	2.657	73	15839	2.23	ug/L	93
26) trans-1,2-Dichloroethene	2.645	96	4227	1.92	ug/L	89
27) 1,1-Dicethane	3.066	63	7895	2.10	ug/L	92
28) Vinyl Acetate	3.151	86	992	1.92	ug/L	# 88
29) DIPE	3.182	45	14276	2.30	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.176	53	4796	1.73	ug/L	97
31) ETBE	3.633	59	13902	2.17	ug/L	98
32) 2,2-Dichloropropane	3.779	77	5249	1.66	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	5142	2.06	ug/L	93
34) 2-Butanone	3.834	43	3837	2.66	ug/L	91
35) Propionitrile	3.895	54	5741	12.71	ug/L	96
36) Bromochloromethane	4.120	130	3781	2.14	ug/L	91
37) Methacrylonitrile	4.127	67	2921	2.42	ug/L	93
38) Tetrahydrofuran	4.212	42	2464	2.67	ug/L	87
39) Chloroform	4.279	83	8361	2.20	ug/L	90
40) 1,1,1-Trichloroethane	4.547	97	5575	1.71	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5212.D
 Acq On : 26 Mar 2019 1:37 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 14:02:20 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.517	73	13417	2.08	ug/L	94
43) Cyclohexane	4.633	41	3340m	1.90	ug/L	
45) Carbontetrachloride	4.840	117	4391	1.51	ug/L	86
46) 1,1-Dichloropropene	4.852	75	4939	1.67	ug/L	91
48) Benzene	5.218	78	18094	1.93	ug/L	93
49) 1,2-Dichloroethane	5.260	62	7171	2.20	ug/L	95
50) Iso-Butyl Alcohol	5.260	43	6711	43.14	ug/L	84
51) n-Heptane	5.797	43	4050	1.73	ug/L	93
52) 1-Butanol	6.370	56	10625	97.92	ug/L	92
53) Trichloroethene	6.309	130	4758	1.71	ug/L	89
54) Methylcyclohexane	6.565	55	4411	1.76	ug/L	95
55) 1,2-Dicloropropane	6.608	63	4643	1.90	ug/L	87
56) Dibromomethane	6.766	93	3587	2.11	ug/L	89
57) 1,4-Dioxane	6.858	88	2077	42.83	ug/L	98
58) Methyl Methacrylate	6.888	69	4259	2.02	ug/L	89
59) Bromodichloromethane	7.028	83	6195	2.06	ug/L	96
60) 2-Nitropropane	7.333	41	2386m	3.86	ug/L	
61) 2-Chloroethylvinyl Ether	7.498	63	826	1.75	ug/L	73
62) cis-1,3-Dichloropropene	7.620	75	7557	1.92	ug/L	93
63) 4-Methyl-2-pentanone	7.864	43	6124	2.26	ug/L	98
65) Toluene	8.028	91	19358	1.88	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	6391	1.77	ug/L	96
67) Ethyl Methacrylate	8.504	69	6845	1.90	ug/L	98
68) 1,1,2-Trichloroethane	8.522	97	5210	2.05	ug/L	94
71) Tetrachloroethene	8.668	164	3831	1.66	ug/L	92
72) 2-Hexanone	8.870	43	4448	2.25	ug/L	92
73) 1,3-Dichloropropane	8.711	76	9023	2.17	ug/L	99
74) Dibromochloromethane	8.961	129	4523	1.80	ug/L	87
75) N-Butyl Acetate	9.052	43	8120	2.22	ug/L	93
76) 1,2-Dibromoethane	9.059	107	5300	2.00	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	6240	1.58	ug/L	93
78) Chlorobenzene	9.607	112	13650	1.96	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	5646	1.60	ug/L	92
80) 1,1,1,2-Tetrachloroethane	9.705	131	4091	1.72	ug/L	96
81) Ethylbenzene	9.741	106	6448	1.79	ug/L	97
82) (m+p)Xylene	9.869	106	15463	3.46	ug/L	94
83) o-Xylene	10.247	106	7890	1.80	ug/L	90
84) Styrene	10.259	104	13752	1.88	ug/L	91
85) Bromoform	10.406	173	2651	1.50	ug/L	91
86) 2-Chlorobenzotrifluoride	10.509	180	6186	1.59	ug/L	93
87) Isopropylbenzene	10.601	105	18613	1.70	ug/L	95
88) Cyclohexanone	10.656	55	22604	43.21	ug/L	91
89) trans-1,4-Dichloro-2-B...	10.930	53	1575	2.02	ug/L	93
91) 1,1,2,2-Tetrachloroethane	10.881	83	7515	2.27	ug/L	96
92) Bromobenzene	10.845	156	6064	1.96	ug/L	96
93) 1,2,3-Trichloropropane	10.900	110	2713	2.31	ug/L #	84
94) n-Propylbenzene	10.979	91	21240	1.85	ug/L	97
95) 2-Chlorotoluene	11.034	91	13905	1.97	ug/L	98
96) 3-Chlorotoluene	11.089	91	14542	2.06	ug/L	94
97) 4-Chlorotoluene	11.131	91	16257	2.01	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	15517	1.85	ug/L	95
99) tert-Butylbenzene	11.418	119	12899	1.71	ug/L	94
100) 1,2,4-Trimethylbenzene	11.454	105	16048	1.93	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.528	214	4800	1.64	ug/L	82
102) sec-Butylbenzene	11.607	105	18155	1.73	ug/L	94
103) p-Isopropyltoluene	11.735	119	16339	1.81	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5212.D
Acq On : 26 Mar 2019 1:37 pm
Operator : F.NAEGLER
Sample : 2.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	10312	1.84	ug/L	98
105) 1,4-Dclbenz	11.753	146	11448	1.96	ug/L	95
106) 2,4-Dichlorobenzotrifl...	11.826	214	4365	1.64	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.869	214	5076	1.70	ug/L	97
108) n-Butylbenzene	12.076	91	13052	1.76	ug/L	94
109) 1,2-Dclbenz	12.058	146	11244	2.00	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.698	157	1462	1.73	ug/L	83
111) Trielution Dichlorotol...	12.826	125	21256	5.21	ug/L	95
112) 1,3,5-Trichlorobenzene	12.875	180	6879	1.80	ug/L	95
113) Coelution Dichlorotoluene	13.149	125	15296	3.54	ug/L	94
114) 1,2,4-Tcbenzene	13.363	180	5716	1.61	ug/L	93
115) Hexachlorobt	13.503	225	2712	1.55	ug/L	90
116) Naphthalen	13.545	128	14028	1.51	ug/L	98
117) 1,2,3-Tclbenzene	13.741	180	5262	1.55	ug/L	90
118) 2,4,5-Trichlorotoluene	14.326	159	510m	0.56	ug/L	
119) 2,3,6-Trichlorotoluene	14.411	159	524	0.50	ug/L	99

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

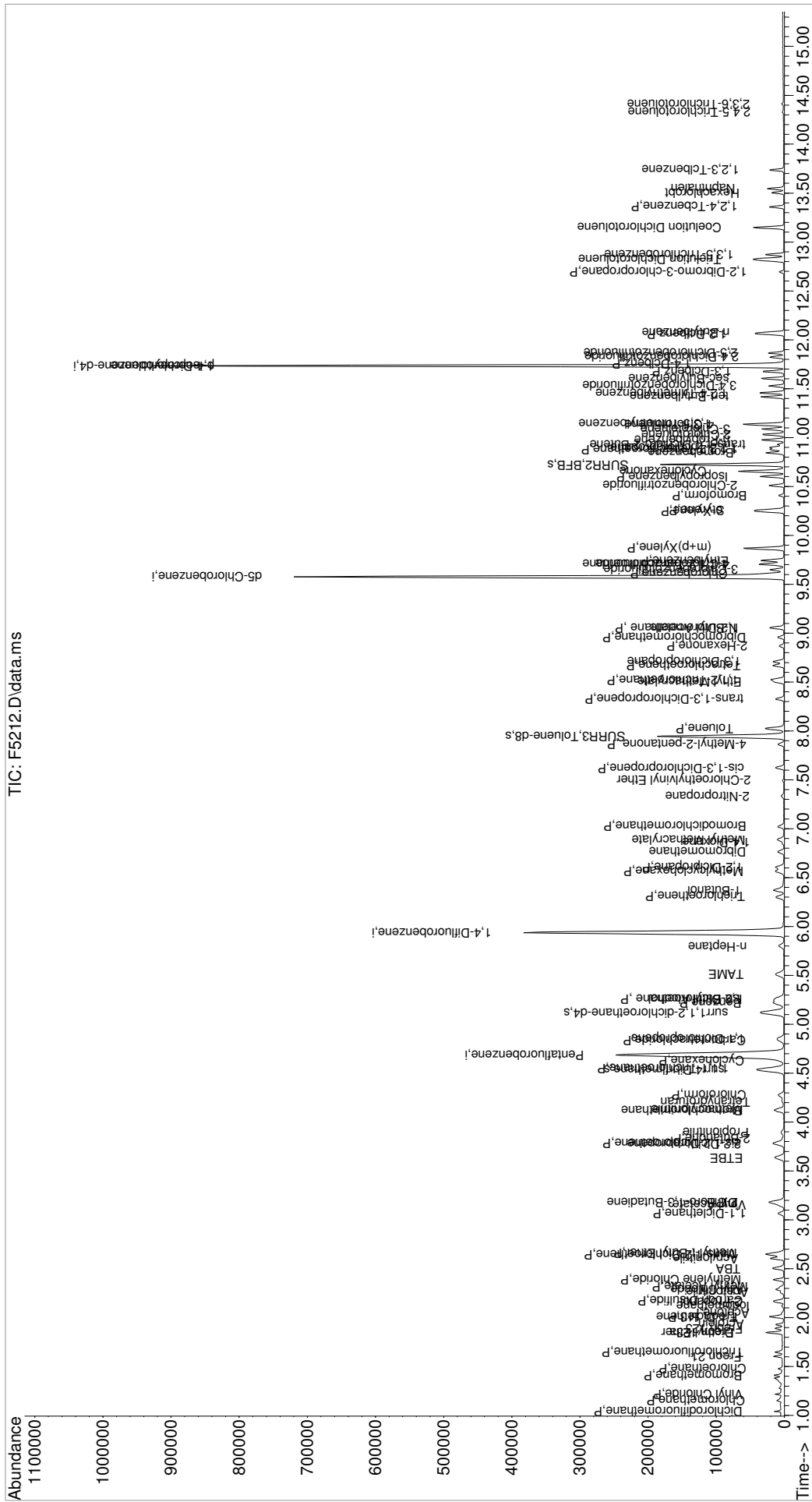
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5212.D
Acq On	:	26 Mar 2019 1:37 pm
Operator	:	F.NAEGLER
Sample	:	2.0 PPB STD
Misc	:	
ALS Vial	:	4 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 26 14:05:06 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:02:20 2019
Response via : Initial Calibration



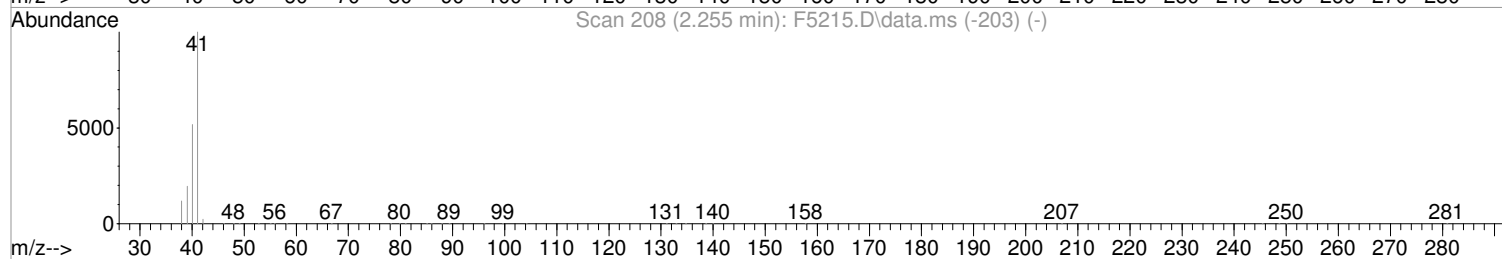
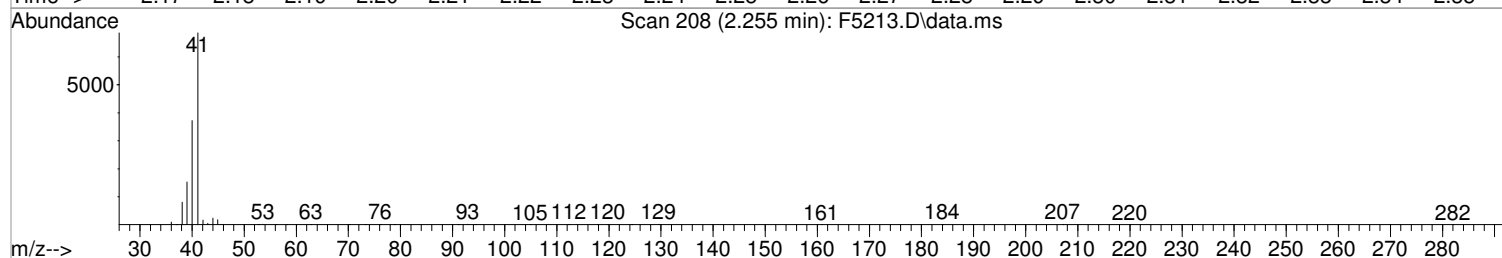
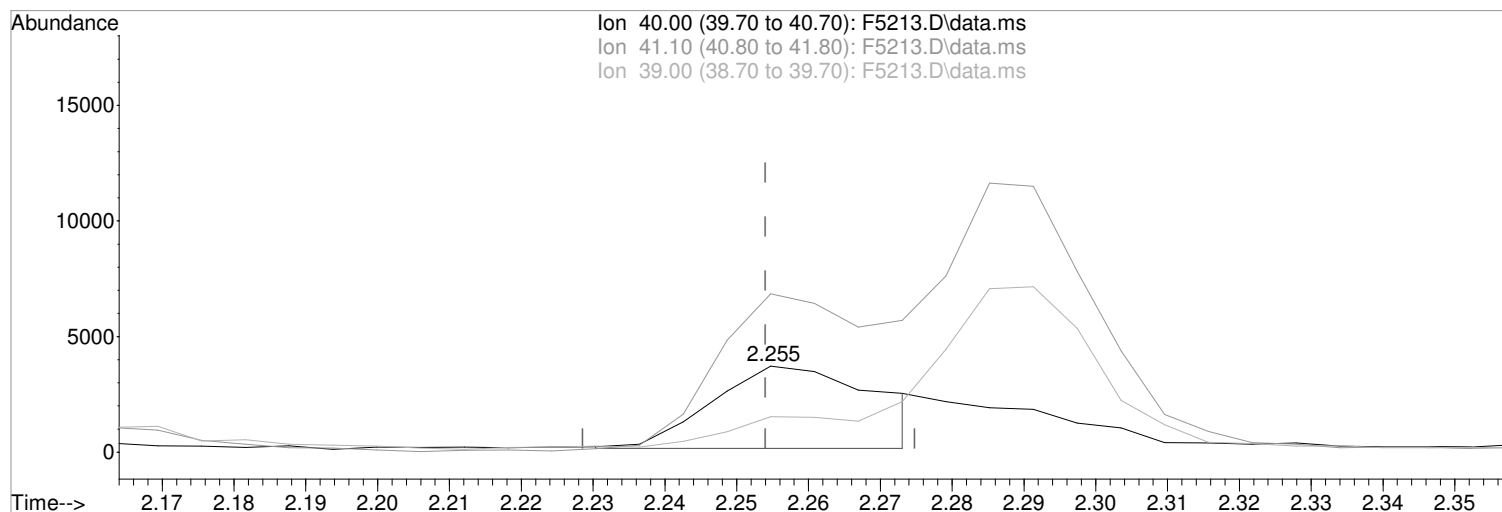
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5213.D
Acq On : 26 Mar 2019 1:59 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:54:18 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:05:21 2019
Response via : Initial Calibration



(19) Acetonitrile

2.255min (+0.001) 27.63 ug/L m

response 5705

Ion	Exp%	Act%
40.00	100	100
41.10	175.00	184.32
39.00	38.30	41.15
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

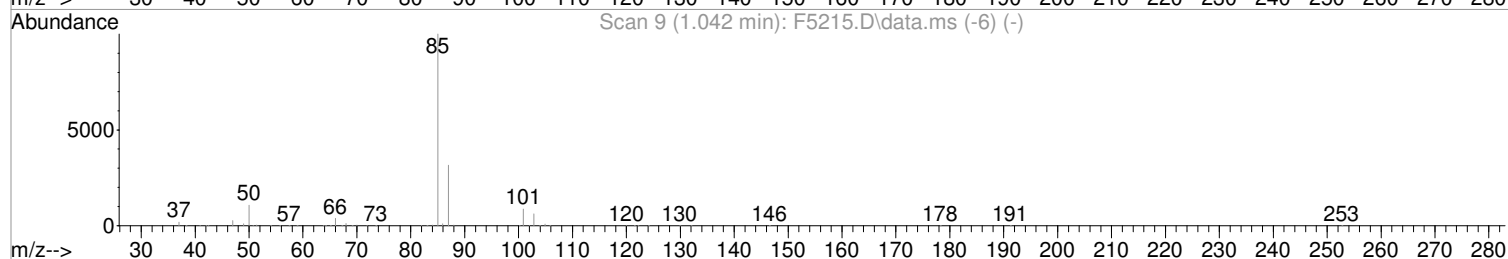
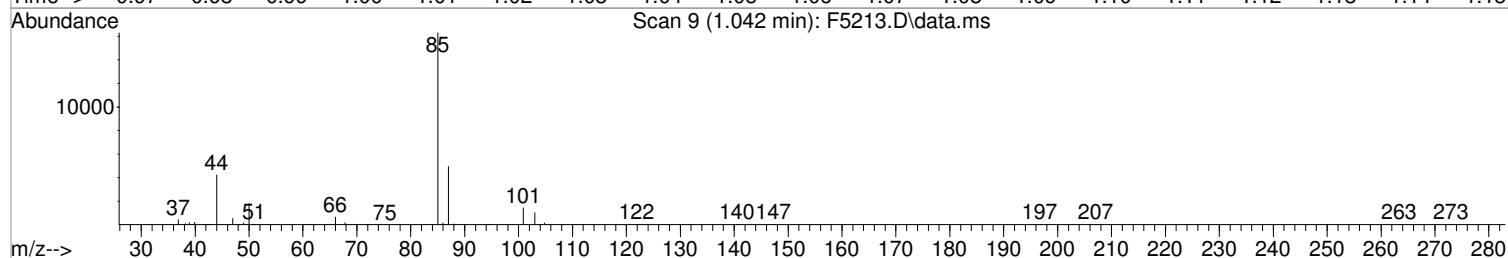
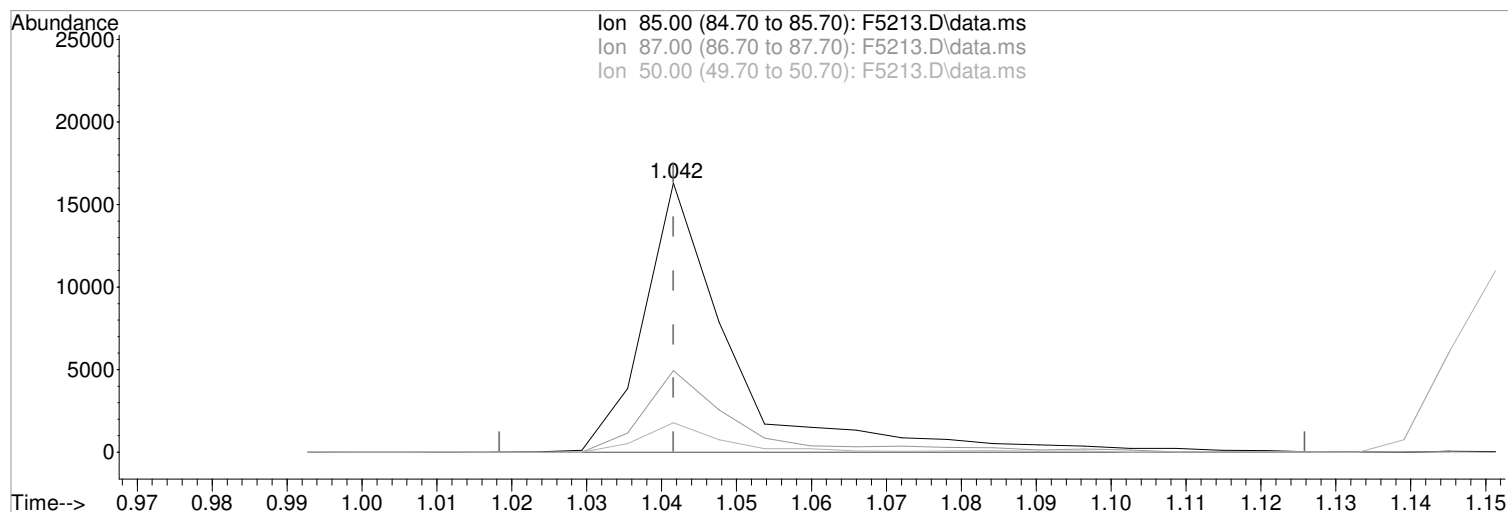
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5213.D
Acq On : 26 Mar 2019 1:59 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:54:18 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:05:21 2019
Response via : Initial Calibration



TIC: F5213.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (-0.000) 4.09 ug/L m

response 13310

Ion	Exp%	Act%
85.00	100	100
87.00	33.30	30.29
50.00	14.00	11.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

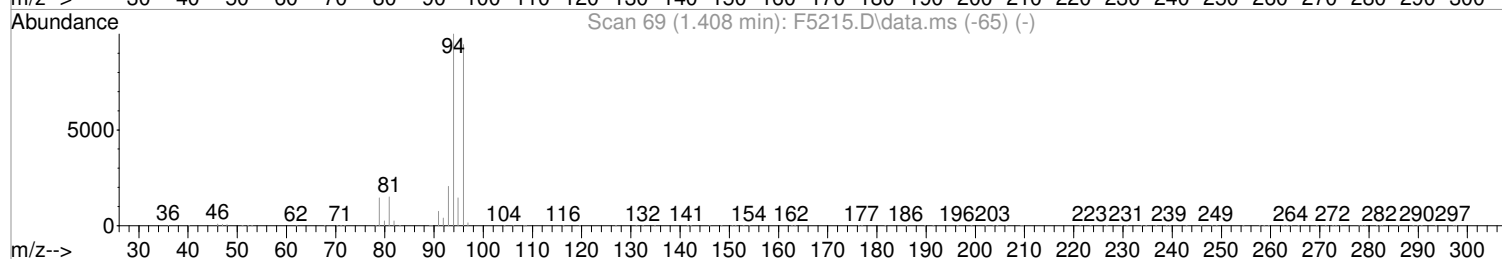
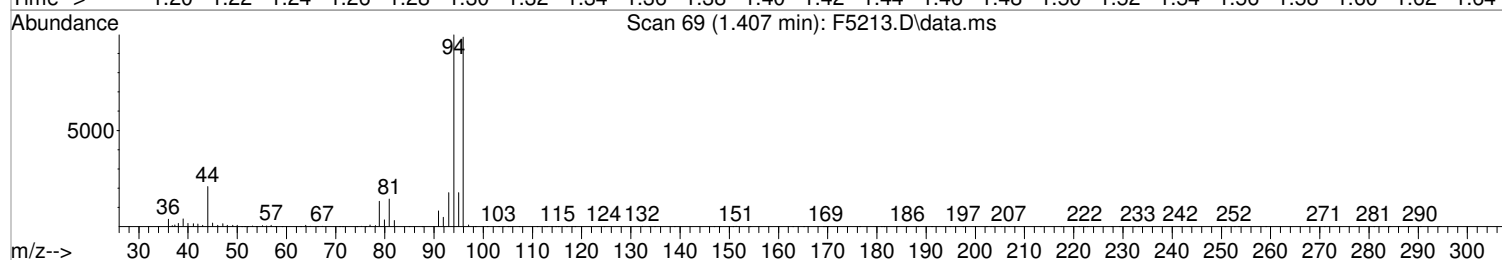
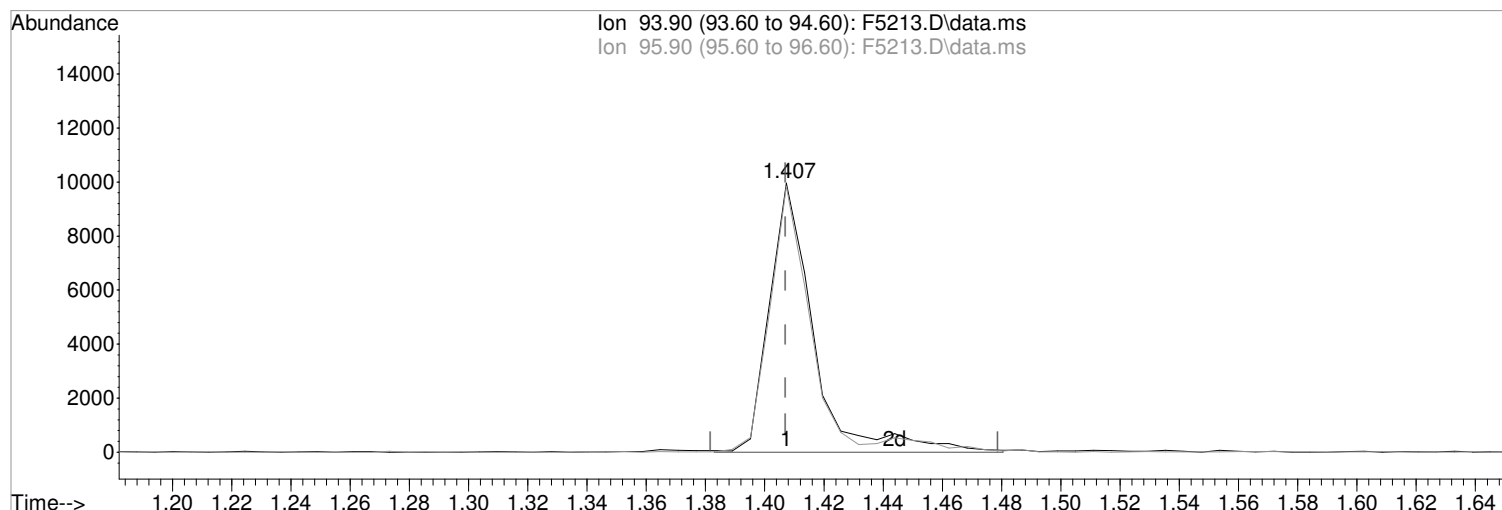
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5213.D
Acq On : 26 Mar 2019 1:59 pm
Operator : F.NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:54:18 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:05:21 2019
Response via : Initial Calibration



TIC: F5213.D\data.ms

(5) Bromomethane (P)

1.407min (+0.000) 6.77 ug/L m

response 10392

Ion	Exp%	Act%
93.90	100	100
95.90	95.90	98.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5213.D
 Acq On : 26 Mar 2019 1:59 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:54:18 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 14:05:21 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	259322	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	387785	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	340757	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	181987	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	29835	12.54	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	25.08%#
47) surr1,1,2-dichloroetha...	5.120	65	35337	13.37	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	26.74%#
64) SURR3,Toluene-d8	7.949	98	120302	13.11	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	26.22%#
69) SURR2,BFB	10.723	95	46917	13.65	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	27.30%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	13310m	4.09	ug/L	
3) Chloromethane	1.151	50	15927	6.03	ug/L	93
4) Vinyl Chloride	1.218	62	14551	6.86	ug/L	94
5) Bromomethane	1.407	94	10392m	6.77	ug/L	
6) Chloroethane	1.474	64	8967	7.74	ug/L	94
7) Freon 21	1.602	67	22734	8.18	ug/L	97
8) Trichlorofluoromethane	1.645	101	16597	6.50	ug/L	98
9) Diethyl Ether	1.846	59	11992	6.08	ug/L	97
10) Freon 123a	1.846	67	13270	6.00	ug/L	99
11) Freon 123	1.889	83	15599	5.73	ug/L	97
12) Acrolein	1.932	56	15679	25.68	ug/L	94
13) 1,1-Dicethene	2.011	96	10036	4.99	ug/L	95
14) Freon 113	2.011	101	9709	5.22	ug/L	96
15) Acetone	2.047	43	6841	5.71	ug/L	96
16) 2-Propanol	2.163	45	23293	105.90	ug/L	98
17) Iodomethane	2.121	142	10210	3.88	ug/L	96
18) Carbon Disulfide	2.175	76	27035	4.90	ug/L	97
19) Acetonitrile	2.255	40	5705m	27.63	ug/L	
20) Allyl Chloride	2.291	76	5726	4.98	ug/L	# 82
21) Methyl Acetate	2.310	43	13327	6.08	ug/L	93
22) Methylene Chloride	2.389	84	13579	5.54	ug/L	95
23) TBA	2.505	59	39973	105.84	ug/L	97
24) Acrylonitrile	2.602	53	35761	30.15	ug/L	89
25) Methyl-t-Butyl Ether	2.657	73	40022	5.47	ug/L	95
26) trans-1,2-Dichloroethene	2.645	96	11501	5.16	ug/L	86
27) 1,1-Dicethane	3.066	63	22411	5.78	ug/L	98
28) Vinyl Acetate	3.151	86	2701	5.13	ug/L	# 56
29) DIPE	3.187	45	38835	6.03	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.175	53	14131	5.08	ug/L	96
31) ETBE	3.639	59	35605	5.41	ug/L	97
32) 2,2-Dichloropropane	3.779	77	15441	4.87	ug/L	94
33) cis-1,2-Dichloroethene	3.791	96	13858	5.42	ug/L	87
34) 2-Butanone	3.834	43	8885	5.83	ug/L	88
35) Propionitrile	3.895	54	14109	29.42	ug/L	97
36) Bromochloromethane	4.120	130	9461	5.22	ug/L	99
37) Methacrylonitrile	4.120	67	7474	5.91	ug/L	93
38) Tetrahydrofuran	4.224	42	5701	5.78	ug/L	81
39) Chloroform	4.279	83	21565	5.48	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	16457	5.03	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5213.D
 Acq On : 26 Mar 2019 1:59 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:54:18 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 14:05:21 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	35340	5.36	ug/L	98
43) Cyclohexane	4.645	41	9702	5.52	ug/L	92
45) Carbontetrachloride	4.840	117	12535	4.37	ug/L	93
46) 1,1-Dichloropropene	4.846	75	14780	5.00	ug/L	97
48) Benzene	5.218	78	50696	5.33	ug/L	98
49) 1,2-Dichloroethane	5.254	62	18067	5.40	ug/L	95
50) Iso-Butyl Alcohol	5.266	43	16346	102.03	ug/L	85
51) n-Heptane	5.803	43	12144	5.16	ug/L	100
52) 1-Butanol	6.370	56	25415	229.14	ug/L	97
53) Trichloroethene	6.303	130	13891	5.00	ug/L	97
54) Methylcyclohexane	6.571	55	13589	5.40	ug/L	93
55) 1,2-Dicloropropane	6.608	63	13611	5.51	ug/L	93
56) Dibromomethane	6.766	93	8835	5.11	ug/L #	77
57) 1,4-Dioxane	6.857	88	5262	105.06	ug/L	100
58) Methyl Methacrylate	6.888	69	10896	5.09	ug/L	93
59) Bromodichloromethane	7.028	83	15218	4.96	ug/L	98
60) 2-Nitropropane	7.333	41	5716	9.08	ug/L	96
61) 2-Chloroethylvinyl Ether	7.485	63	2189	4.52	ug/L	90
62) cis-1,3-Dichloropropene	7.626	75	20104	5.03	ug/L	95
63) 4-Methyl-2-pentanone	7.863	43	15625	5.63	ug/L	95
65) Toluene	8.028	91	52740	5.09	ug/L	96
66) trans-1,3-Dichloropropene	8.327	75	17485	4.82	ug/L	95
67) Ethyl Methacrylate	8.504	69	17560	4.82	ug/L	92
68) 1,1,2-Trichloroethane	8.522	97	13200	5.10	ug/L	98
71) Tetrachloroethene	8.668	164	10337	4.43	ug/L	96
72) 2-Hexanone	8.863	43	11028	5.37	ug/L	97
73) 1,3-Dichloropropane	8.711	76	22823	5.36	ug/L	94
74) Dibromochloromethane	8.955	129	11091	4.35	ug/L	94
75) N-Butyl Acetate	9.052	43	20259	5.37	ug/L	97
76) 1,2-Dibromoethane	9.058	107	12958	4.82	ug/L	90
77) 3-Chlorobenzotrifluoride	9.650	180	18542	4.76	ug/L	93
78) Chlorobenzene	9.607	112	35543	5.03	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	16180	4.59	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.704	131	11508	4.83	ug/L	95
81) Ethylbenzene	9.741	106	18300	5.06	ug/L	93
82) (m+p)Xylene	9.869	106	44837	10.01	ug/L	93
83) o-Xylene	10.247	106	22072	5.00	ug/L	97
84) Styrene	10.259	104	36545	4.92	ug/L	97
85) Bromoform	10.412	173	7152	4.07	ug/L	100
86) 2-Chlorobenzotrifluoride	10.509	180	18219	4.71	ug/L	96
87) Isopropylbenzene	10.601	105	53807	4.91	ug/L	100
88) Cyclohexanone	10.656	55	59187	109.29	ug/L	90
89) trans-1,4-Dichloro-2-B...	10.930	53	4136	5.19	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.875	83	18855	5.52	ug/L	97
92) Bromobenzene	10.845	156	15595	4.97	ug/L	99
93) 1,2,3-Trichloropropane	10.899	110	6403	5.29	ug/L	94
94) n-Propylbenzene	10.973	91	61833	5.32	ug/L	96
95) 2-Chlorotoluene	11.034	91	39665	5.50	ug/L	100
96) 3-Chlorotoluene	11.088	91	39406	5.45	ug/L	95
97) 4-Chlorotoluene	11.131	91	45662	5.51	ug/L	97
98) 1,3,5-Trimethylbenzene	11.137	105	45735	5.41	ug/L	99
99) tert-Butylbenzene	11.418	119	39136	5.19	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	45387	5.36	ug/L	95
101) 3,4-Dichlorobenzotrifl...	11.527	214	14248	4.85	ug/L	97
102) sec-Butylbenzene	11.607	105	55464	5.24	ug/L	99
103) p-Isopropyltoluene	11.735	119	47721	5.24	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5213.D
 Acq On : 26 Mar 2019 1:59 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:54:18 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 14:05:21 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	28615	5.09	ug/L	96
105) 1,4-Dclbenz	11.753	146	29594	5.00	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	13004	4.90	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.869	214	14957	4.98	ug/L	96
108) n-Butylbenzene	12.076	91	39774	5.30	ug/L	99
109) 1,2-Dclbenz	12.058	146	28326	4.96	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.698	157	3703	4.32	ug/L #	84
111) Trielution Dichlorotol...	12.826	125	64469	15.59	ug/L	96
112) 1,3,5-Trichlorobenzene	12.875	180	19350	4.96	ug/L	96
113) Coelution Dichlorotoluene	13.149	125	45980	10.46	ug/L	96
114) 1,2,4-Tcbenzene	13.356	180	17822	4.93	ug/L	96
115) Hexachlorobt	13.503	225	8607	4.96	ug/L	91
116) Naphthalen	13.545	128	46507	4.90	ug/L	97
117) 1,2,3-Tclbenzene	13.734	180	16588	4.83	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	2412	2.60	ug/L	97
119) 2,3,6-Trichlorotoluene	14.411	159	2847	2.71	ug/L	98

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

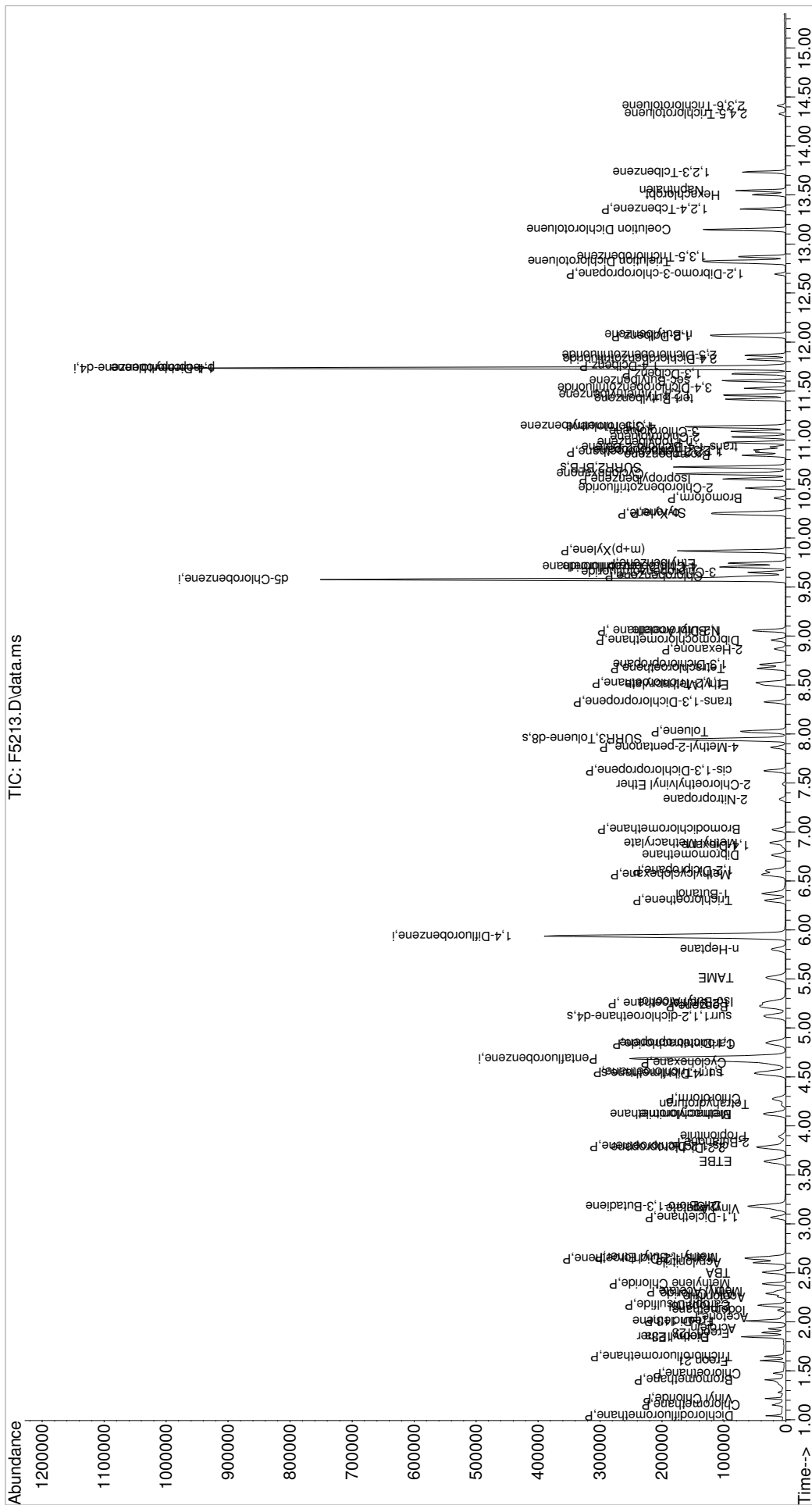
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5213.D
Acq On	:	26 Mar 2019 1:59 pm
Operator	:	F.NAEGLER
Sample	:	5.0 PPB STD
Misc	:	
ALS Vial	:	5 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 26 15:54:18 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 14:05:21 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5214.D
 Acq On : 26 Mar 2019 2:21 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:26:51 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:26:44 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	259934	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	387802	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	340654	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	186870	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	48480	19.57	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	39.14%#	
47) surr1,1,2-dichloroetha...	5.120	65	56753	20.53	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	41.06%#	
64) SURR3,Toluene-d8	7.949	98	197876	20.71	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	41.42%#	
69) SURR2,BFB	10.723	95	75477	20.86	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	41.72%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	69121	21.36	ug/L	98
3) Chloromethane	1.151	50	72325	25.66	ug/L	98
4) Vinyl Chloride	1.218	62	68363	30.16	ug/L	98
5) Bromomethane	1.414	94	40351	24.46	ug/L	95
6) Chloroethane	1.481	64	40319	31.75	ug/L	99
7) Freon 21	1.603	67	88439	28.98	ug/L	99
8) Trichlorofluoromethane	1.651	101	74393	27.67	ug/L	96
9) Diethyl Ether	1.846	59	50251	24.51	ug/L	97
10) Freon 123a	1.846	67	53109	23.30	ug/L	96
11) Freon 123	1.895	83	60752	21.89	ug/L	99
12) Acrolein	1.932	56	68043	109.94	ug/L	98
13) 1,1-Dicethene	2.011	96	48116	23.78	ug/L #	88
14) Freon 113	2.017	101	41963	22.31	ug/L	92
15) Acetone	2.048	43	25930	20.81	ug/L	87
16) 2-Propanol	2.157	45	106351	473.20	ug/L	94
17) Iodomethane	2.121	142	58246	22.49	ug/L	95
18) Carbon Disulfide	2.176	76	105115	18.87	ug/L	98
19) Acetonitrile	2.255	40	28000	132.62	ug/L	95
20) Allyl Chloride	2.291	76	26961	23.31	ug/L #	82
21) Methyl Acetate	2.310	43	55345	24.42	ug/L	98
22) Methylene Chloride	2.389	84	58091	23.13	ug/L	98
23) TBA	2.505	59	179566	467.10	ug/L	97
24) Acrylonitrile	2.602	53	153192	124.36	ug/L	97
25) Methyl-t-Butyl Ether	2.657	73	174837	23.42	ug/L	94
26) trans-1,2-Dichloroethene	2.645	96	52261	23.18	ug/L	98
27) 1,1-Dicethane	3.066	63	97677	24.60	ug/L	99
28) Vinyl Acetate	3.151	86	11601	21.71	ug/L #	86
29) DIPE	3.181	45	153838	23.04	ug/L	92
30) 2-Chloro-1,3-Butadiene	3.175	53	56089	20.02	ug/L	99
31) ETBE	3.639	59	146011	21.80	ug/L	96
32) 2,2-Dichloropropane	3.785	77	70721	22.17	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	59961	23.05	ug/L	94
34) 2-Butanone	3.828	43	38441	24.40	ug/L	99
35) Propionitrile	3.889	54	63920	128.14	ug/L	94
36) Bromochloromethane	4.120	130	42044	22.94	ug/L	97
37) Methacrylonitrile	4.126	67	32277	24.80	ug/L	96
38) Tetrahydrofuran	4.212	42	25302	24.66	ug/L	93
39) Chloroform	4.279	83	95480	23.82	ug/L	97
40) 1,1,1-Trichloroethane	4.553	97	74671	22.71	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5214.D
 Acq On : 26 Mar 2019 2:21 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:26:51 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:26:44 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	144415	21.55	ug/L	98
43) Cyclohexane	4.645	41	38212	21.44	ug/L	88
45) Carbontetrachloride	4.840	117	57428	20.28	ug/L	98
46) 1,1-Dichloropropene	4.852	75	68207	23.02	ug/L	97
48) Benzene	5.218	78	219224	22.80	ug/L	97
49) 1,2-Dichloroethane	5.260	62	78697	23.22	ug/L	96
50) Iso-Butyl Alcohol	5.254	43	75405	463.48	ug/L	96
51) n-Heptane	5.803	43	54022	22.64	ug/L	98
52) 1-Butanol	6.370	56	123356	1103.46	ug/L	100
53) Trichloroethene	6.303	130	61270	22.14	ug/L	96
54) Methylcyclohexane	6.565	55	52746	20.76	ug/L	95
55) 1,2-Dichloropropane	6.608	63	60251	23.94	ug/L	94
56) Dibromomethane	6.766	93	40263	23.10	ug/L #	77
57) 1,4-Dioxane	6.845	88	24001	477.47	ug/L	96
58) Methyl Methacrylate	6.888	69	50737	23.49	ug/L	100
59) Bromodichloromethane	7.022	83	69333	22.51	ug/L	97
60) 2-Nitropropane	7.333	41	26496	41.37	ug/L	100
61) 2-Chloroethylvinyl Ether	7.485	63	10526	21.31	ug/L	100
62) cis-1,3-Dichloropropene	7.626	75	90909	22.56	ug/L	99
63) 4-Methyl-2-pentanone	7.863	43	67422	23.70	ug/L	96
65) Toluene	8.028	91	232773	22.32	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	80039	22.05	ug/L	98
67) Ethyl Methacrylate	8.504	69	84287	23.07	ug/L	97
68) 1,1,2-Trichloroethane	8.528	97	59334	22.79	ug/L	99
71) Tetrachloroethene	8.668	164	44226	19.18	ug/L	97
72) 2-Hexanone	8.863	43	50009	24.01	ug/L	98
73) 1,3-Dichloropropane	8.711	76	101804	23.69	ug/L	94
74) Dibromochloromethane	8.961	129	52337	20.52	ug/L	96
75) N-Butyl Acetate	9.052	43	93451	24.42	ug/L	98
76) 1,2-Dibromoethane	9.058	107	59367	22.08	ug/L	93
77) 3-Chlorobenzotrifluoride	9.650	180	65464	16.99	ug/L	98
78) Chlorobenzene	9.607	112	152733	21.61	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	60804	17.46	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.705	131	49989	21.03	ug/L	97
81) Ethylbenzene	9.741	106	78633	21.80	ug/L	99
82) (m+p)Xylene	9.869	106	195640	43.81	ug/L	99
83) o-Xylene	10.247	106	97739	22.18	ug/L	97
84) Styrene	10.259	104	164973	22.25	ug/L	98
85) Bromoform	10.406	173	34068	19.43	ug/L	99
86) 2-Chlorobenzotrifluoride	10.509	180	65556	17.14	ug/L	99
87) Isopropylbenzene	10.601	105	238416	21.87	ug/L	98
88) Cyclohexanone	10.656	55	265624	483.08	ug/L	89
89) trans-1,4-Dichloro-2-B...	10.930	53	18236	22.53	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.875	83	81061	22.62	ug/L	99
92) Bromobenzene	10.845	156	68678	21.43	ug/L	98
93) 1,2,3-Trichloropropane	10.899	110	28140	22.41	ug/L	97
94) n-Propylbenzene	10.979	91	275957	22.95	ug/L	97
95) 2-Chlorotoluene	11.034	91	171513	22.90	ug/L	99
96) 3-Chlorotoluene	11.088	91	151274	20.14	ug/L	94
97) 4-Chlorotoluene	11.131	91	195425	22.66	ug/L	95
98) 1,3,5-Trimethylbenzene	11.137	105	200425	22.91	ug/L	98
99) tert-Butylbenzene	11.418	119	171144	22.13	ug/L	97
100) 1,2,4-Trimethylbenzene	11.460	105	206076	23.52	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.527	214	53558	17.88	ug/L	97
102) sec-Butylbenzene	11.607	105	246168	22.51	ug/L	98
103) p-Isopropyltoluene	11.735	119	208294	22.13	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5214.D
Acq On : 26 Mar 2019 2:21 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:26:51 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:26:44 2019
Response via : Initial Calibration

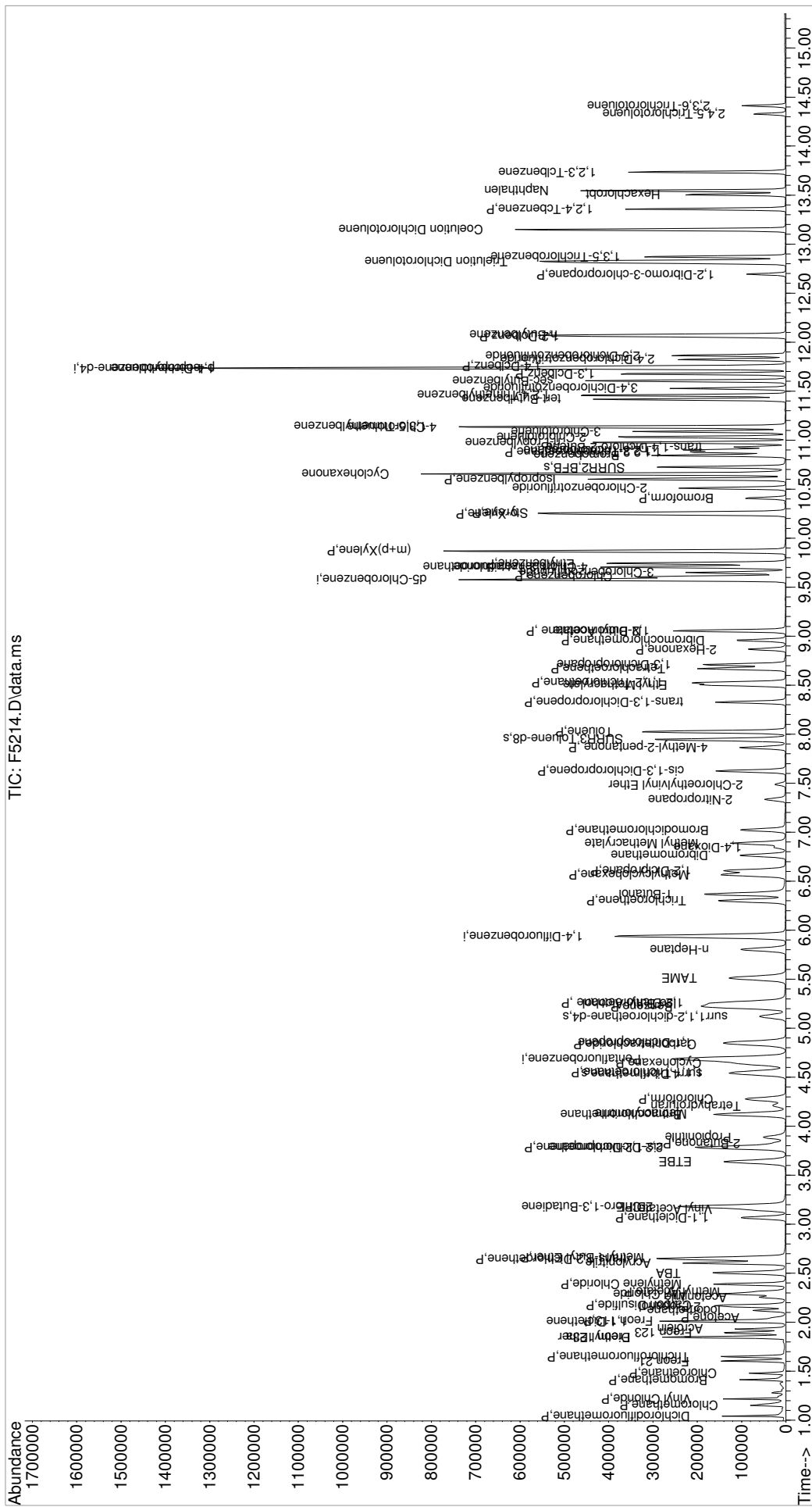
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	123911	21.41	ug/L	99
105) 1,4-Dclbenz	11.753	146	126477	20.77	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	47656	17.64	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.863	214	54496	17.72	ug/L	97
108) n-Butylbenzene	12.076	91	179106	22.84	ug/L	99
109) 1,2-Dclbenz	12.058	146	126944	21.69	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.692	157	18399	20.93	ug/L	98
111) Trielution Dichlorotol...	12.826	125	264342	61.87	ug/L	94
112) 1,3,5-Trichlorobenzene	12.875	180	78450	19.73	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	199038	43.73	ug/L	96
114) 1,2,4-Tcbenzene	13.356	180	85182	22.94	ug/L	95
115) Hexachlorobt	13.509	225	35192	19.79	ug/L	95
116) Naphthalen	13.545	128	260969	26.69	ug/L	98
117) 1,2,3-Tclbenzene	13.734	180	83529	23.72	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	14237	15.05	ug/L	98
119) 2,3,6-Trichlorotoluene	14.411	159	18055	16.84	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5214.D
Acq On	:	26 Mar 2019 2:21 pm
Operator	:	F.NAEGLER
Sample	:	20 PPB STD
Misc	:	
ALS Vial	:	6 Sample Multiplier: 1

Quant Time: Mar 26 15:26:51 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:26:44 2019
Response via : Initial Calibration



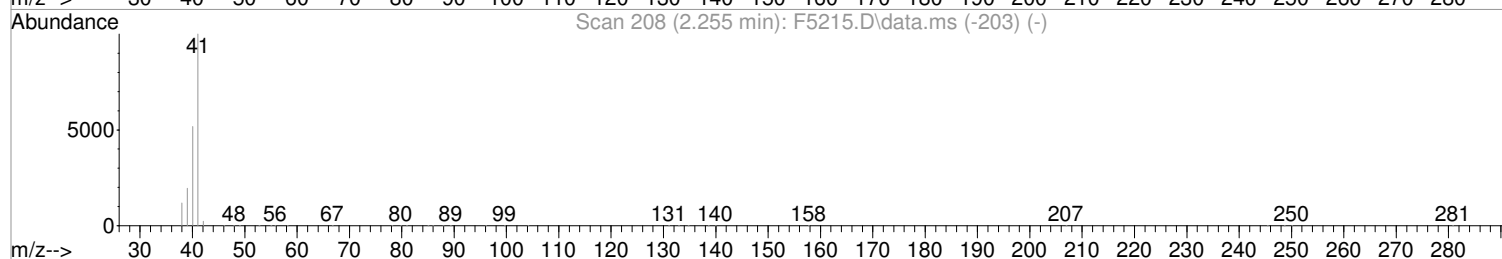
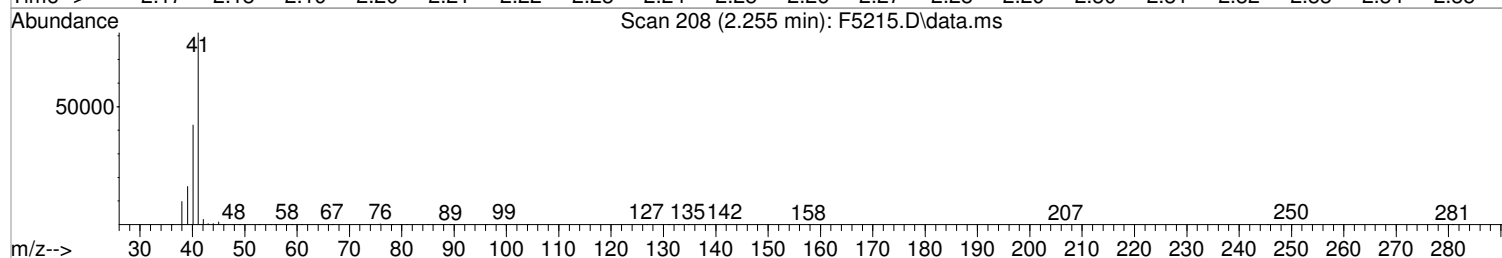
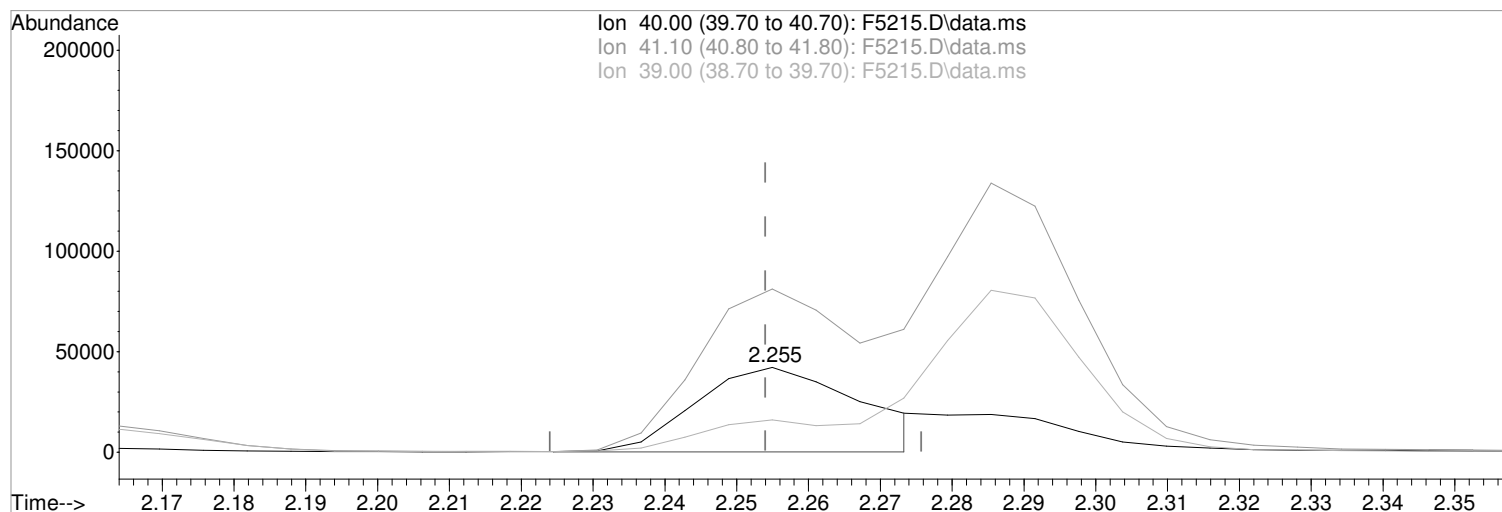
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5215.D
Acq On : 26 Mar 2019 2:44 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:29:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:28:21 2019
Response via : Initial Calibration



(19) Acetonitrile

2.255min (+0.001) 292.36 ug/L m

response 66999

Ion	Exp%	Act%
40.00	100	100
41.10	175.00	192.55
39.00	38.30	38.17
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

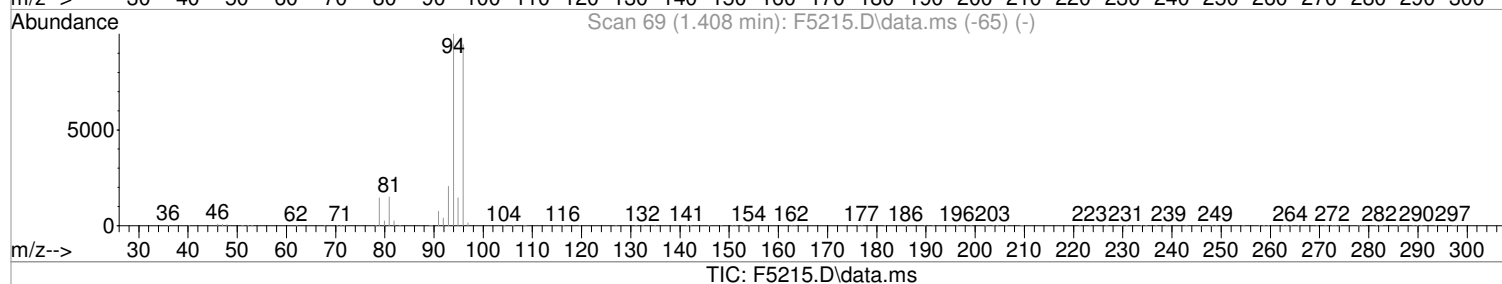
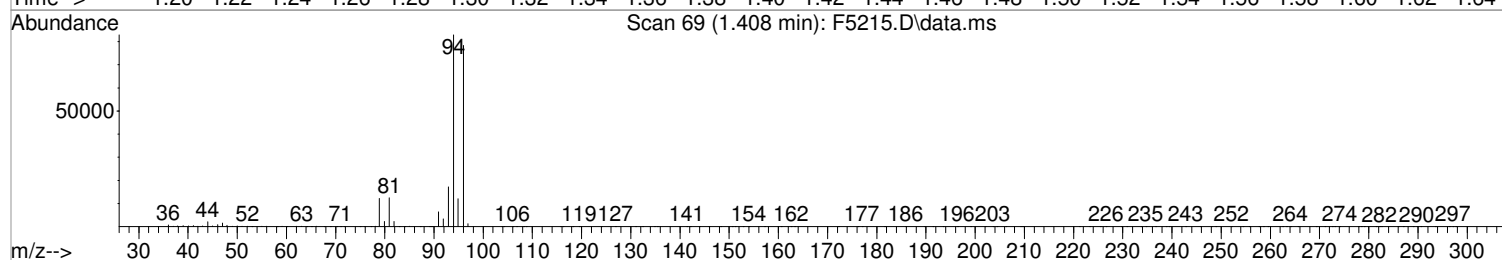
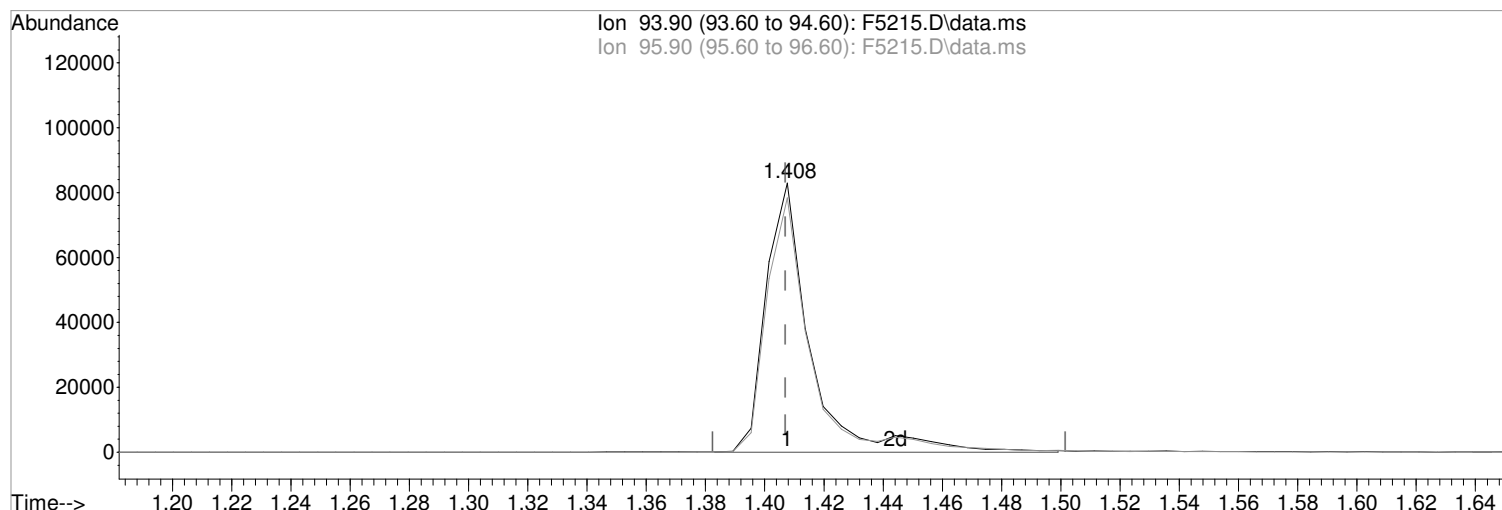
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5215.D
Acq On : 26 Mar 2019 2:44 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:29:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:28:21 2019
Response via : Initial Calibration



(5) Bromomethane (P)

1.408min (+0.001) 48.06 ug/L m

response 86699

Ion	Exp%	Act%
93.90	100	100
95.90	95.90	94.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5215.D
 Acq On : 26 Mar 2019 2:44 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:29:09 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:28:21 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	267040	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	393165	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	349996	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	192202	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	130114	51.73	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	103.46%		
47) surr1,1,2-dichloroetha...	5.120	65	151767	53.39	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	106.78%		
64) SURR3,Toluene-d8	7.943	98	512645	52.21	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	104.42%		
69) SURR2,BFB	10.723	95	196098	52.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	104.72%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	172958	52.32	ug/L	96
3) Chloromethane	1.152	50	178423	57.48	ug/L	100
4) Vinyl Chloride	1.219	62	174161	68.86	ug/L	98
5) Bromomethane	1.408	94	86699m	48.06	ug/L	
6) Chloroethane	1.475	64	99333	68.95	ug/L	99
7) Freon 21	1.603	67	222876	65.97	ug/L	99
8) Trichlorofluoromethane	1.645	101	188392	64.16	ug/L	98
9) Diethyl Ether	1.847	59	125699	57.45	ug/L	97
10) Freon 123a	1.847	67	137890	57.62	ug/L	99
11) Freon 123	1.889	83	158699	55.06	ug/L	99
12) Acrolein	1.926	56	177147	274.64	ug/L	96
13) 1,1-Dicethene	2.005	96	118647	55.77	ug/L	94
14) Freon 113	2.011	101	107314	54.73	ug/L	97
15) Acetone	2.042	43	64335	48.43	ug/L	91
16) 2-Propanol	2.164	45	292523	1229.19	ug/L	93
17) Iodomethane	2.115	142	169360	64.77	ug/L	97
18) Carbon Disulfide	2.170	76	301559	53.22	ug/L	99
19) Acetonitrile	2.255	40	66999m	292.36	ug/L	
20) Allyl Chloride	2.292	76	66834	54.96	ug/L	# 84
21) Methyl Acetate	2.310	43	142533	59.16	ug/L	97
22) Methylene Chloride	2.389	84	140685	53.06	ug/L	96
23) TBA	2.505	59	489384	1209.11	ug/L	96
24) Acrylonitrile	2.602	53	390327	296.62	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	432037	55.00	ug/L	97
26) trans-1,2-Dichloroethene	2.639	96	129542	54.63	ug/L	97
27) 1,1-Dicethane	3.066	63	240938	57.27	ug/L	99
28) Vinyl Acetate	3.145	86	31389	56.83	ug/L	# 86
29) DIPE	3.182	45	396004	56.80	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.176	53	157422	54.84	ug/L	97
31) ETBE	3.639	59	377047	54.55	ug/L	98
32) 2,2-Dichloropropane	3.779	77	175574	52.99	ug/L	96
33) cis-1,2-Dichloroethene	3.785	96	147621	54.14	ug/L	96
34) 2-Butanone	3.822	43	95954	56.76	ug/L	99
35) Propionitrile	3.889	54	165248	309.26	ug/L	97
36) Bromochloromethane	4.120	130	101742	53.01	ug/L	97
37) Methacrylonitrile	4.120	67	83358	60.40	ug/L	86
38) Tetrahydrofuran	4.212	42	63127	57.44	ug/L	94
39) Chloroform	4.273	83	232571	54.90	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	189951	55.44	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5215.D
 Acq On : 26 Mar 2019 2:44 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:29:09 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:28:21 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	375902	54.43	ug/L	98
43) Cyclohexane	4.645	41	99762	54.89	ug/L	87
45) Carbontetrachloride	4.840	117	146444	51.31	ug/L	98
46) 1,1-Dichloropropene	4.852	75	168955	55.43	ug/L	97
48) Benzene	5.218	78	541841	54.65	ug/L	97
49) 1,2-Dichloroethane	5.260	62	192316	54.87	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	208809	1239.34	ug/L	94
51) n-Heptane	5.803	43	141334	57.69	ug/L	95
52) 1-Butanol	6.370	56	353107	3083.53	ug/L	99
53) Trichloroethene	6.297	130	152555	54.05	ug/L	99
54) Methylcyclohexane	6.565	55	141391	54.93	ug/L	98
55) 1,2-Dicloropropane	6.608	63	147376	56.38	ug/L	96
56) Dibromomethane	6.760	93	97388	54.35	ug/L	# 77
57) 1,4-Dioxane	6.846	88	63200	1214.97	ug/L	89
58) Methyl Methacrylate	6.888	69	132241	59.31	ug/L	98
59) Bromodichloromethane	7.022	83	172836	54.70	ug/L	97
60) 2-Nitropropane	7.333	41	72495	110.83	ug/L	98
61) 2-Chloroethylvinyl Ether	7.486	63	31586	62.66	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	232931	56.45	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	176781	59.73	ug/L	96
65) Toluene	8.022	91	582211	54.37	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	208814	56.55	ug/L	99
67) Ethyl Methacrylate	8.504	69	222465	59.35	ug/L	93
68) 1,1,2-Trichloroethane	8.528	97	145641	54.35	ug/L	99
71) Tetrachloroethene	8.668	164	113242	48.22	ug/L	93
72) 2-Hexanone	8.863	43	134206	61.19	ug/L	94
73) 1,3-Dichloropropane	8.711	76	250658	55.55	ug/L	94
74) Dibromochloromethane	8.955	129	138934	53.09	ug/L	97
75) N-Butyl Acetate	9.052	43	252111	62.59	ug/L	96
76) 1,2-Dibromoethane	9.059	107	152142	54.68	ug/L	94
77) 3-Chlorobenzotrifluoride	9.650	180	174995	46.45	ug/L	97
78) Chlorobenzene	9.607	112	378254	51.80	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	160053	46.93	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.705	131	130167	53.46	ug/L	98
81) Ethylbenzene	9.747	106	198295	53.22	ug/L	95
82) (m+p)Xylene	9.869	106	494821	107.17	ug/L	98
83) o-Xylene	10.247	106	245150	53.92	ug/L	100
84) Styrene	10.259	104	424449	55.43	ug/L	96
85) Bromoform	10.406	173	92261	51.80	ug/L	100
86) 2-Chlorobenzotrifluoride	10.509	180	176987	47.09	ug/L	98
87) Isopropylbenzene	10.607	105	616695	54.82	ug/L	99
88) Cyclohexanone	10.656	55	722302	1247.81	ug/L	91
89) trans-1,4-Dichloro-2-B...	10.930	53	48747	57.62	ug/L	90
91) 1,1,2,2-Tetrachloroethane	10.875	83	201272	53.65	ug/L	99
92) Bromobenzene	10.845	156	170868	51.64	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	71729	54.86	ug/L	99
94) n-Propylbenzene	10.979	91	709472	56.41	ug/L	98
95) 2-Chlorotoluene	11.034	91	431384	55.06	ug/L	98
96) 3-Chlorotoluene	11.089	91	396687	51.90	ug/L	97
97) 4-Chlorotoluene	11.131	91	495211	54.89	ug/L	96
98) 1,3,5-Trimethylbenzene	11.137	105	505505	55.37	ug/L	98
99) tert-Butylbenzene	11.418	119	438245	54.61	ug/L	97
100) 1,2,4-Trimethylbenzene	11.454	105	515589	56.25	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.528	214	141737	47.95	ug/L	96
102) sec-Butylbenzene	11.607	105	635889	55.91	ug/L	98
103) p-Isopropyltoluene	11.735	119	534977	54.65	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5215.D
Acq On : 26 Mar 2019 2:44 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:29:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:28:21 2019
Response via : Initial Calibration

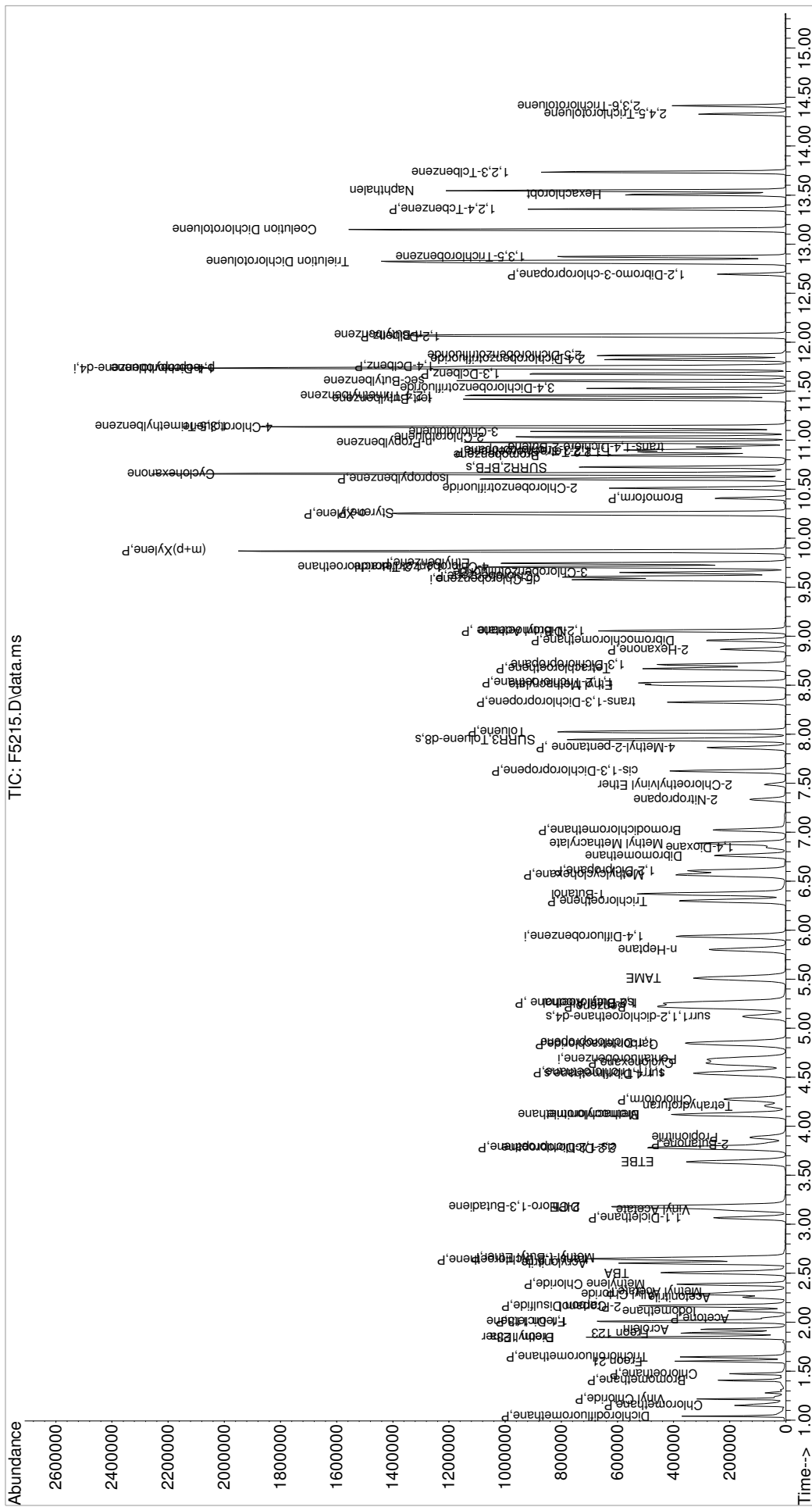
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	308950	51.64	ug/L	98
105) 1,4-Dclbenz	11.753	146	313970	49.97	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	128998	48.43	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	146640	48.10	ug/L	95
108) n-Butylbenzene	12.076	91	466415	56.90	ug/L	96
109) 1,2-Dclbenz	12.058	146	316426	52.26	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.692	157	51296	56.82	ug/L	98
111) Trielution Dichlorotol...	12.826	125	700281	162.36	ug/L	94
112) 1,3,5-Trichlorobenzene	12.875	180	202911	50.99	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	518696	112.15	ug/L	94
114) 1,2,4-Tcbenzene	13.356	180	214616	56.27	ug/L	99
115) Hexachlorobt	13.509	225	88552	48.61	ug/L	99
116) Naphthalen	13.545	128	686168	67.40	ug/L	98
117) 1,2,3-Tclbenzene	13.734	180	213418	58.85	ug/L	99
118) 2,4,5-Trichlorotoluene	14.326	159	62016	67.06	ug/L	95
119) 2,3,6-Trichlorotoluene	14.411	159	74768	70.65	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5215.D
Acq On	:	26 Mar 2019 2:44 pm
Operator	:	F.NAEGLER
Sample	:	50 PPB STD
Misc	:	
ALS Vial	:	7 Sample Multiplier: 1

Quant Time: Mar 26 15:29:09 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:28:21 2019
Response via : Initial Calibration



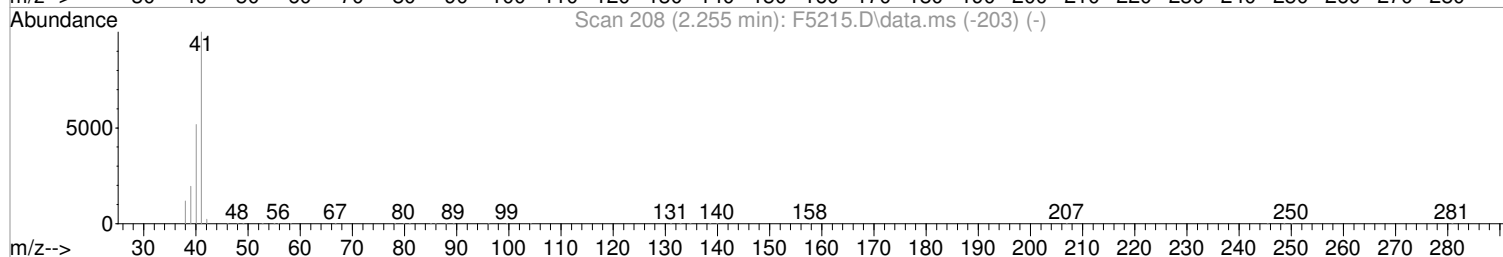
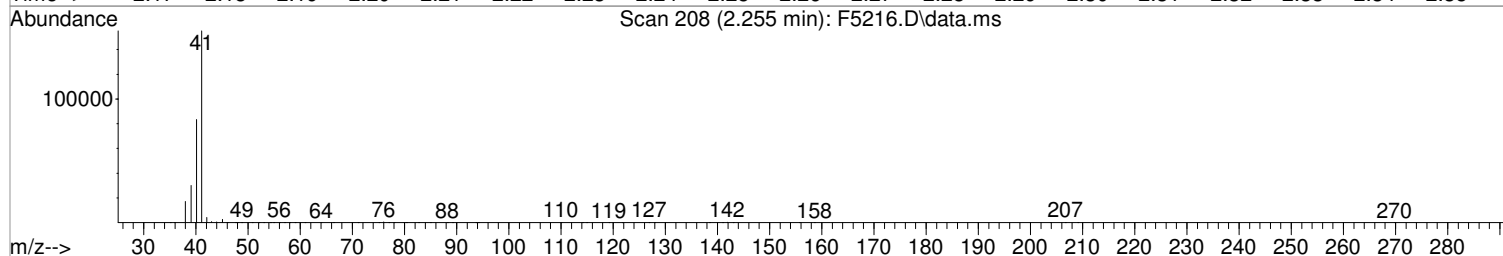
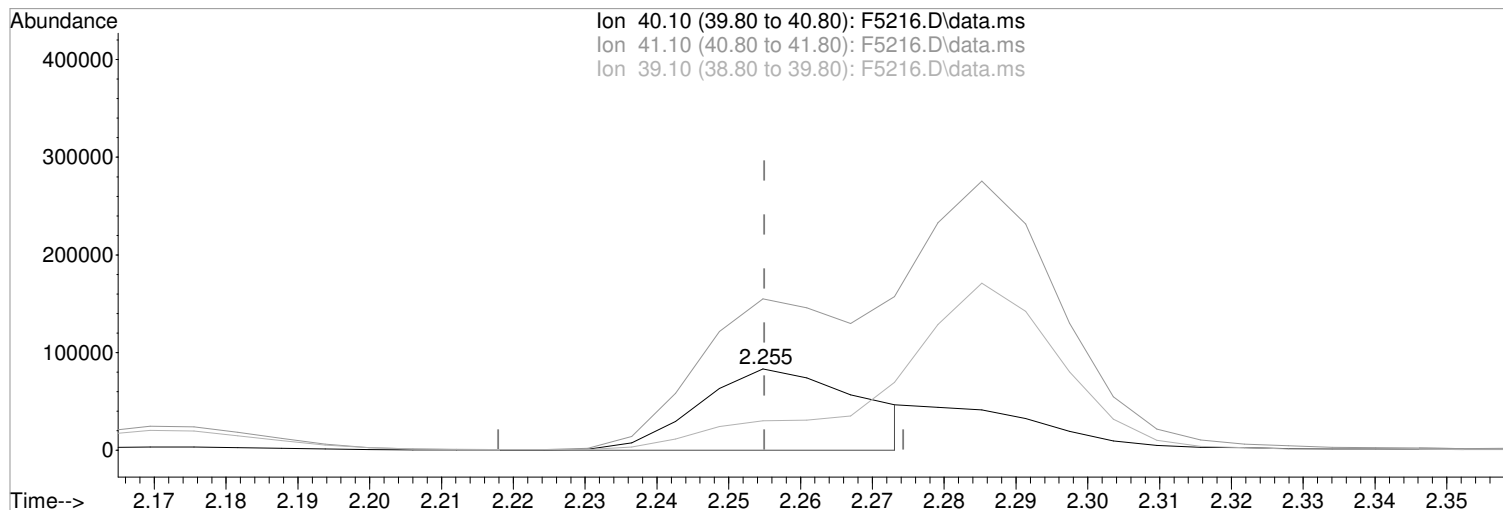
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5216.D
Acq On : 26 Mar 2019 3:06 pm
Operator : F.NAEGLER
Sample : 100 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:31:59 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:30:15 2019
Response via : Initial Calibration



(19) Acetonitrile

2.255min (-0.000) 550.07 ug/L m

response 132238

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	186.03
39.10	38.20	36.20
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5216.D
 Acq On : 26 Mar 2019 3:06 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:31:59 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:30:15 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	267713	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	397311	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	356273	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	201715	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	261213	100.98	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	201.96%#
47) surr1,1,2-dichloroetha...	5.120	65	305616	103.13	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	206.26%#
64) SURR3,Toluene-d8	7.949	98	1032068	101.40	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	202.80%#
69) SURR2,BFB	10.723	95	399533	102.26	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	204.52%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	336074	102.17	ug/L	98
3) Chloromethane	1.151	50	357280	108.00	ug/L	96
4) Vinyl Chloride	1.218	62	346895	127.07	ug/L	100
5) Bromomethane	1.401	94	132488	70.06	ug/L	95
6) Chloroethane	1.468	64	188920	120.18	ug/L	98
7) Freon 21	1.602	67	426123	115.21	ug/L	100
8) Trichlorofluoromethane	1.639	101	369215	118.75	ug/L	100
9) Diethyl Ether	1.846	59	247040	108.85	ug/L	99
10) Freon 123a	1.846	67	257958	101.79	ug/L	96
11) Freon 123	1.889	83	299916	98.77	ug/L	98
12) Acrolein	1.926	56	351853	533.77	ug/L	100
13) 1,1-Dicethene	2.005	96	233400	107.41	ug/L	98
14) Freon 113	2.011	101	209947	105.43	ug/L	98
15) Acetone	2.047	43	126001	91.38	ug/L	100
16) 2-Propanol	2.169	45	632523	2559.80	ug/L	99
17) Iodomethane	2.115	142	364309	140.43	ug/L	98
18) Carbon Disulfide	2.169	76	651495	113.66	ug/L	100
19) Acetonitrile	2.255	40	132238m	550.07	ug/L	
20) Allyl Chloride	2.285	76	136122	109.78	ug/L	91
21) Methyl Acetate	2.310	43	284482	113.71	ug/L	99
22) Methylene Chloride	2.389	84	276796	101.73	ug/L	97
23) TBA	2.517	59	1039900	2482.44	ug/L	99
24) Acrylonitrile	2.602	53	778731	567.73	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	868603	108.04	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	254154	105.13	ug/L	98
27) 1,1-Dicethane	3.066	63	477771	110.39	ug/L	100
28) Vinyl Acetate	3.145	86	65688	116.95	ug/L	100
29) DIPE	3.181	45	786501	108.33	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	337184	115.83	ug/L	99
31) ETBE	3.639	59	758631	106.75	ug/L	99
32) 2,2-Dichloropropane	3.779	77	352772	105.65	ug/L	100
33) cis-1,2-Dichloroethene	3.785	96	293024	105.36	ug/L	100
34) 2-Butanone	3.822	43	192184	109.14	ug/L	97
35) Propionitrile	3.889	54	332649	595.67	ug/L	99
36) Bromochloromethane	4.120	130	198352	101.81	ug/L	98
37) Methacrylonitrile	4.120	67	164467	114.88	ug/L	99
38) Tetrahydrofuran	4.212	42	126257	109.93	ug/L	97
39) Chloroform	4.279	83	458762	105.73	ug/L	98
40) 1,1,1-Trichloroethane	4.547	97	378288	108.79	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5216.D
 Acq On : 26 Mar 2019 3:06 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:31:59 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:30:15 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	776505	109.79	ug/L	98
43) Cyclohexane	4.638	41	188481	98.03	ug/L	98
45) Carbontetrachloride	4.840	117	301420	104.94	ug/L	99
46) 1,1-Dichloropropene	4.846	75	336222	107.79	ug/L	98
48) Benzene	5.218	78	1078027	105.94	ug/L	98
49) 1,2-Dichloroethane	5.254	62	375076	104.16	ug/L	99
50) Iso-Butyl Alcohol	5.272	43	446646	2540.50	ug/L	99
51) n-Heptane	5.803	43	272121	107.64	ug/L	95
52) 1-Butanol	6.382	56	793425	6693.68	ug/L	99
53) Trichloroethene	6.303	130	301941	105.14	ug/L	98
54) Methylcyclohexane	6.565	55	269524	99.52	ug/L	99
55) 1,2-Dichloropropane	6.608	63	292708	108.36	ug/L	100
56) Dibromomethane	6.760	93	194496	105.74	ug/L	93
57) 1,4-Dioxane	6.851	88	132647	2454.41	ug/L	95
58) Methyl Methacrylate	6.888	69	265706	115.03	ug/L	98
59) Bromodichloromethane	7.022	83	351457	108.84	ug/L	98
60) 2-Nitropropane	7.333	41	155540	231.24	ug/L	93
61) 2-Chloroethylvinyl Ether	7.485	63	70979	135.55	ug/L	100
62) cis-1,3-Dichloropropene	7.626	75	473868	111.99	ug/L	98
63) 4-Methyl-2-pentanone	7.863	43	363803	118.03	ug/L	99
65) Toluene	8.028	91	1146342	104.48	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	431488	114.51	ug/L	99
67) Ethyl Methacrylate	8.504	69	460738	119.30	ug/L	98
68) 1,1,2-Trichloroethane	8.528	97	288999	105.04	ug/L	99
71) Tetrachloroethene	8.668	164	220767	92.54	ug/L	97
72) 2-Hexanone	8.869	43	277408	120.23	ug/L	100
73) 1,3-Dichloropropane	8.711	76	498635	106.44	ug/L	98
74) Dibromochloromethane	8.961	129	289911	108.29	ug/L	98
75) N-Butyl Acetate	9.052	43	529257	124.56	ug/L	99
76) 1,2-Dibromoethane	9.058	107	305250	106.57	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	360310	93.71	ug/L	100
78) Chlorobenzene	9.607	112	758711	101.28	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	324659	93.22	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	268981	108.31	ug/L	98
81) Ethylbenzene	9.747	106	399146	104.52	ug/L	99
82) (m+p)Xylene	9.869	106	987691	208.60	ug/L	98
83) o-Xylene	10.247	106	490772	105.25	ug/L	100
84) Styrene	10.259	104	856183	108.69	ug/L	98
85) Bromoform	10.406	173	202824	112.29	ug/L	98
86) 2-Chlorobenzotrifluoride	10.509	180	361103	94.08	ug/L	99
87) Isopropylbenzene	10.607	105	1226657	106.22	ug/L	99
88) Cyclohexanone	10.662	55	1433249	2353.25	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	101709	115.09	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.881	83	413932	103.03	ug/L	99
92) Bromobenzene	10.845	156	345463	98.90	ug/L	99
93) 1,2,3-Trichloropropane	10.899	110	143329	102.16	ug/L	96
94) n-Propylbenzene	10.979	91	1419518	105.70	ug/L	99
95) 2-Chlorotoluene	11.034	91	866750	103.46	ug/L	100
96) 3-Chlorotoluene	11.088	91	812069	98.92	ug/L	98
97) 4-Chlorotoluene	11.131	91	1009865	104.71	ug/L	99
98) 1,3,5-Trimethylbenzene	11.137	105	1024719	105.52	ug/L	98
99) tert-Butylbenzene	11.418	119	888465	104.54	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	1052665	107.78	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.527	214	293830	94.33	ug/L	99
102) sec-Butylbenzene	11.607	105	1289620	106.78	ug/L	100
103) p-Isopropyltoluene	11.735	119	1089537	105.10	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5216.D
 Acq On : 26 Mar 2019 3:06 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:31:59 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:30:15 2019
 Response via : Initial Calibration

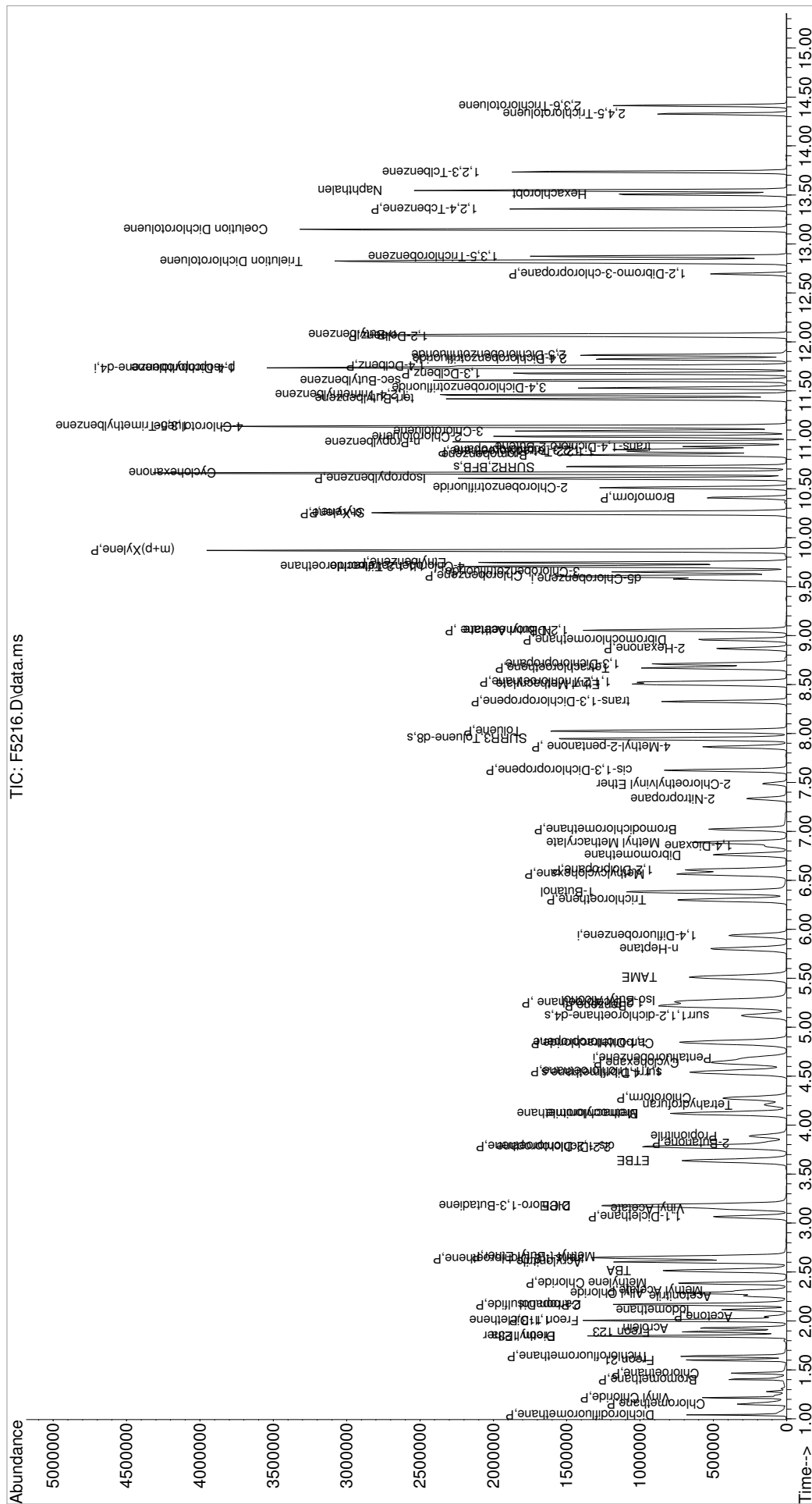
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	631395	99.99	ug/L	99
105) 1,4-Dclbenz	11.753	146	648688	97.80	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	269170	95.85	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	306184	95.19	ug/L	99
108) n-Butylbenzene	12.076	91	965629	110.25	ug/L	98
109) 1,2-Dclbenz	12.058	146	643092	100.55	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	115003	120.52	ug/L	91
111) Trielution Dichlorotol...	12.826	125	1473445	319.65	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	423043	100.33	ug/L	99
113) Coelution Dichlorotoluene	13.149	125	1093102	221.05	ug/L	99
114) 1,2,4-Tcbenzene	13.356	180	450540	112.06	ug/L	96
115) Hexachlorobt	13.509	225	180276	94.18	ug/L	99
116) Naphthalen	13.545	128	1449473	133.01	ug/L	100
117) 1,2,3-Tclbenzene	13.734	180	448509	117.17	ug/L	99
118) 2,4,5-Trichlorotoluene	14.326	159	185244	191.37	ug/L	98
119) 2,3,6-Trichlorotoluene	14.411	159	219199	196.51	ug/L	97

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

Data Path : I:\ACQUATA\MSVOA14\Data\032619\
 Data File : F5216.D
 Acq On : 26 Mar 2019 3:06 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:31:59 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 Qlast Update : Tue Mar 26 15:30:15 2019
 Response via : Initial Calibration



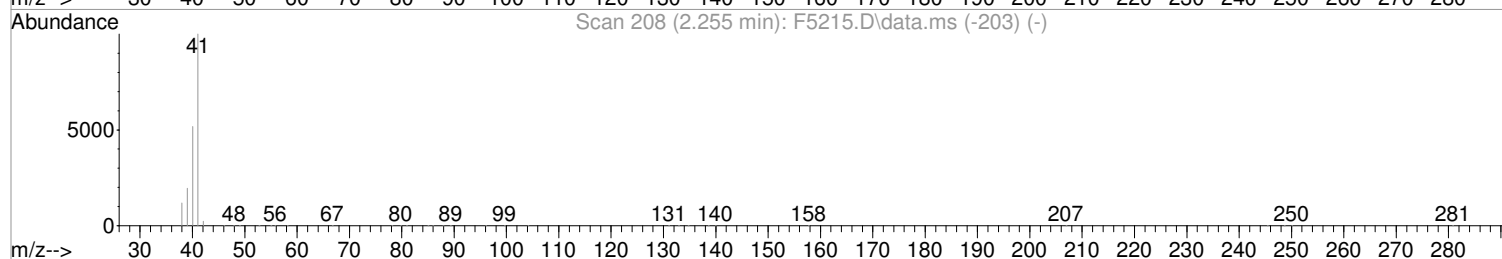
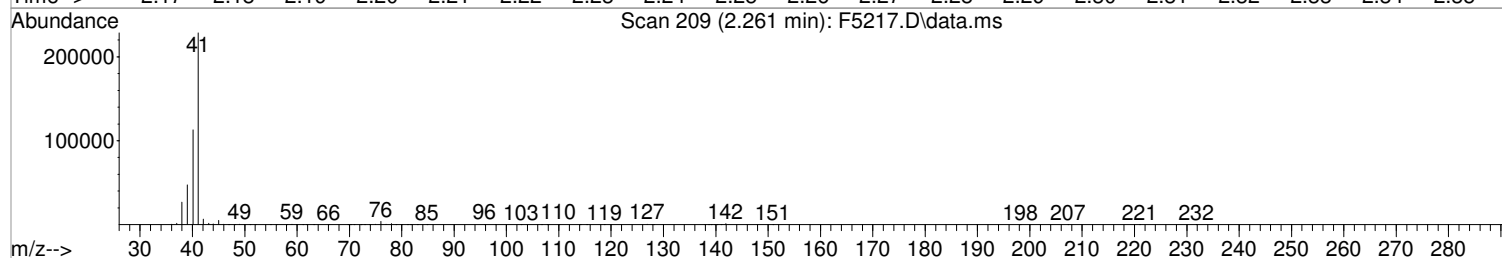
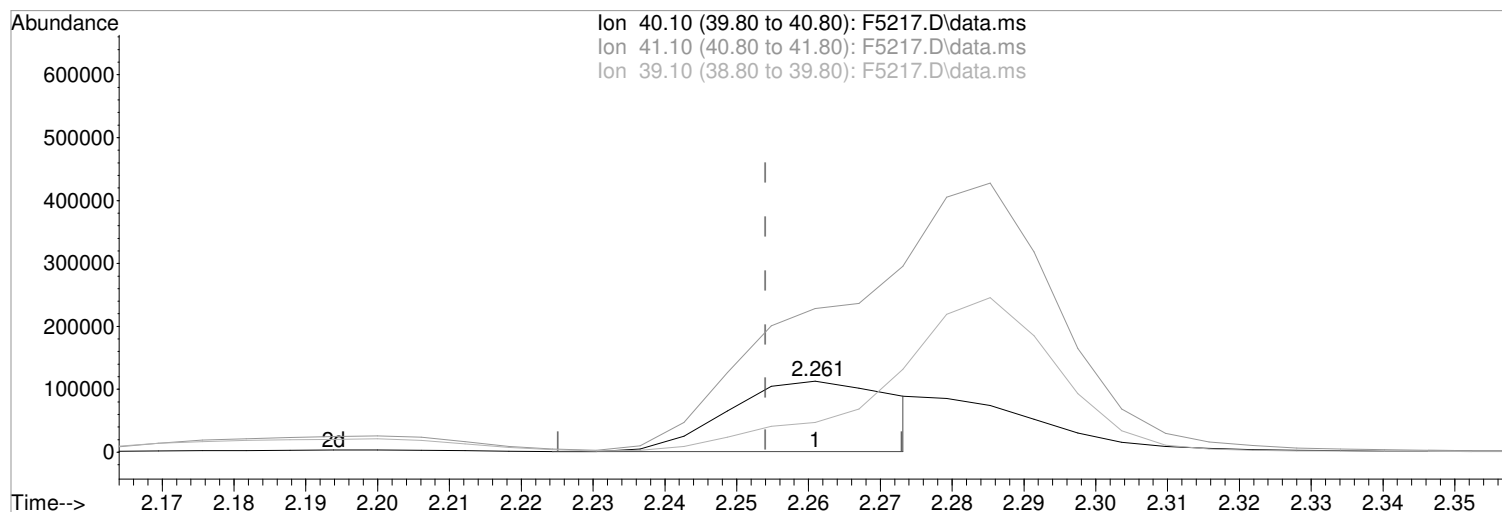
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5217.D
Acq On : 26 Mar 2019 3:28 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:46:58 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:35:41 2019
Response via : Initial Calibration



(19) Acetonitrile

2.261min (+0.007) 706.90 ug/L m

response 182733

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	202.22
39.10	38.20	41.98
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5217.D
 Acq On : 26 Mar 2019 3:28 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:46:58 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:35:41 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	265318	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	397159	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	361031	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	211837	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	490944	182.20	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	364.40%#		
47) surr1,1,2-dichloroetha...	5.120	65	572161	180.97	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	361.94%#		
64) SURR3,Toluene-d8	7.949	98	1938282	179.77	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	359.54%#		
69) SURR2,BFB	10.729	95	765754	184.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	368.46%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	479812	157.72	ug/L	98
3) Chloromethane	1.151	50	527211	152.41	ug/L	97
4) Vinyl Chloride	1.218	62	488644	158.63	ug/L	98
5) Bromomethane	1.401	94	184867	85.80	ug/L	98
6) Chloroethane	1.462	64	198029	104.44	ug/L	99
7) Freon 21	1.596	67	741471	172.16	ug/L	100
8) Trichlorofluoromethane	1.633	101	527388	152.01	ug/L	100
9) Diethyl Ether	1.846	59	371635	149.78	ug/L	99
10) Freon 123a	1.846	67	459356	172.23	ug/L	99
11) Freon 123	1.889	83	525439	172.95	ug/L	100
12) Acrolein	1.932	56	536047	788.39	ug/L	99
13) 1,1-Dicethene	1.999	96	334203	152.80	ug/L	98
14) Freon 113	2.005	101	292051	146.50	ug/L	100
15) Acetone	2.048	43	194633	142.18	ug/L	98
16) 2-Propanol	2.200	45	979592	3738.44	ug/L	100
17) Iodomethane	2.115	142	529500	198.84	ug/L	98
18) Carbon Disulfide	2.163	76	969806	170.63	ug/L	99
19) Acetonitrile	2.261	40	182733m	706.90	ug/L	
20) Allyl Chloride	2.285	76	194950	154.39	ug/L	# 84
21) Methyl Acetate	2.310	43	419661	157.12	ug/L	99
22) Methylene Chloride	2.383	84	400922	140.33	ug/L	97
23) TBA	2.523	59	1655272	3763.46	ug/L	99
24) Acrylonitrile	2.608	53	1166855	782.72	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	1305839	156.35	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	367789	148.97	ug/L	98
27) 1,1-Dicethane	3.066	63	693078	153.66	ug/L	100
28) Vinyl Acetate	3.145	86	101697	180.59	ug/L	96
29) DIPE	3.188	45	1220018	158.59	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.169	53	495734	169.84	ug/L	99
31) ETBE	3.639	59	1199084	165.04	ug/L	98
32) 2,2-Dichloropropane	3.779	77	527194	160.39	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	432261	152.02	ug/L	98
34) 2-Butanone	3.828	43	295226	152.95	ug/L	96
35) Propionitrile	3.895	54	512214	847.14	ug/L	99
36) Bromochloromethane	4.120	130	291397	148.06	ug/L	99
37) Methacrylonitrile	4.120	67	248097	163.81	ug/L	98
38) Tetrahydrofuran	4.212	42	190192	149.43	ug/L	97
39) Chloroform	4.273	83	672873	150.16	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	548163	159.18	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5217.D
 Acq On : 26 Mar 2019 3:28 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:46:58 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:35:41 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1213526	169.61	ug/L	98
43) Cyclohexane	4.639	41	331097	169.79	ug/L	99
45) Carbontetrachloride	4.840	117	430464	157.41	ug/L	98
46) 1,1-Dichloropropene	4.846	75	482029	153.91	ug/L	100
48) Benzene	5.218	78	1573651	151.37	ug/L	99
49) 1,2-Dichloroethane	5.260	62	560063	151.19	ug/L	98
50) Iso-Butyl Alcohol	5.303	43	724061	3791.97	ug/L	97
51) n-Heptane	5.803	43	383833	150.08	ug/L	98
52) 1-Butanol	6.406	56	1282841	10282.63	ug/L	100
53) Trichloroethene	6.297	130	428814	151.16	ug/L	99
54) Methylcyclohexane	6.565	55	476266	177.09	ug/L	96
55) 1,2-Dicloropropane	6.608	63	433269	153.70	ug/L	100
56) Dibromomethane	6.760	93	289346	153.58	ug/L	95
57) 1,4-Dioxane	6.858	88	207999	3505.33	ug/L	96
58) Methyl Methacrylate	6.888	69	406250	171.45	ug/L	99
59) Bromodichloromethane	7.022	83	527619	163.52	ug/L	100
60) 2-Nitropropane	7.333	41	248579	368.52	ug/L	97
61) 2-Chloroethylvinyl Ether	7.486	63	118297	226.86	ug/L	98
62) cis-1,3-Dichloropropene	7.626	75	713484	168.64	ug/L	100
63) 4-Methyl-2-pentanone	7.864	43	564538	173.14	ug/L	100
65) Toluene	8.028	91	1672139	150.78	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	657765	177.59	ug/L	99
67) Ethyl Methacrylate	8.504	69	710481	182.61	ug/L	97
68) 1,1,2-Trichloroethane	8.528	97	427446	152.14	ug/L	98
71) Tetrachloroethene	8.668	164	313204	131.73	ug/L	96
72) 2-Hexanone	8.869	43	438283	171.91	ug/L	98
73) 1,3-Dichloropropane	8.711	76	738217	149.58	ug/L	99
74) Dibromochloromethane	8.961	129	440465	168.41	ug/L	98
75) N-Butyl Acetate	9.052	43	816384	174.71	ug/L	99
76) 1,2-Dibromoethane	9.058	107	464240	158.88	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	582004	161.56	ug/L	99
78) Chlorobenzene	9.607	112	1120523	146.78	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	525140	160.67	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	402572	166.98	ug/L	99
81) Ethylbenzene	9.747	106	579086	150.80	ug/L	99
82) (m+p)Xylene	9.869	106	1428265	300.57	ug/L	99
83) o-Xylene	10.247	106	714820	152.32	ug/L	99
84) Styrene	10.259	104	1262639	160.11	ug/L	97
85) Bromoform	10.412	173	320951	191.95	ug/L	99
86) 2-Chlorobenzotrifluoride	10.509	180	594983	164.14	ug/L	100
87) Isopropylbenzene	10.607	105	1779628	154.96	ug/L	100
88) Cyclohexanone	10.662	55	2278202	3545.56	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	163794	179.83	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.881	83	661010	149.40	ug/L	100
92) Bromobenzene	10.845	156	513091	138.88	ug/L	98
93) 1,2,3-Trichloropropane	10.900	110	221975	143.97	ug/L	99
94) n-Propylbenzene	10.979	91	2060813	143.67	ug/L	99
95) 2-Chlorotoluene	11.034	91	1277705	140.81	ug/L	99
96) 3-Chlorotoluene	11.088	91	1340399	153.53	ug/L	100
97) 4-Chlorotoluene	11.131	91	1467279	139.89	ug/L	98
98) 1,3,5-Trimethylbenzene	11.137	105	1499851	145.81	ug/L	98
99) tert-Butylbenzene	11.418	119	1301428	146.17	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	1570896	151.66	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.527	214	484972	157.32	ug/L	99
102) sec-Butylbenzene	11.607	105	1907502	151.10	ug/L	99
103) p-Isopropyltoluene	11.735	119	1619763	150.55	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5217.D
Acq On : 26 Mar 2019 3:28 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 15:46:58 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:35:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	952200	143.35	ug/L	98
105) 1,4-Dclbenz	11.753	146	977139	138.79	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	440511	158.54	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	502711	157.77	ug/L	98
108) n-Butylbenzene	12.076	91	1464740	159.60	ug/L	97
109) 1,2-Dclbenz	12.064	146	977009	144.79	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.698	157	187783	196.64	ug/L	91
111) Trielution Dichlorotol...	12.826	125	2414254	514.97	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	691345	164.28	ug/L	100
113) Coelution Dichlorotoluene	13.149	125	1770125	354.39	ug/L	98
114) 1,2,4-Tcbenzene	13.356	180	699777	175.70	ug/L	98
115) Hexachlorobt	13.509	225	276318	142.45	ug/L	100
116) Naphthalen	13.545	128	2255336	206.79	ug/L	100
117) 1,2,3-Tclbenzene	13.734	180	695754	185.33	ug/L	97
118) 2,4,5-Trichlorotoluene	14.326	159	336732	382.97	ug/L	98
119) 2,3,6-Trichlorotoluene	14.411	159	399393	380.41	ug/L	96

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

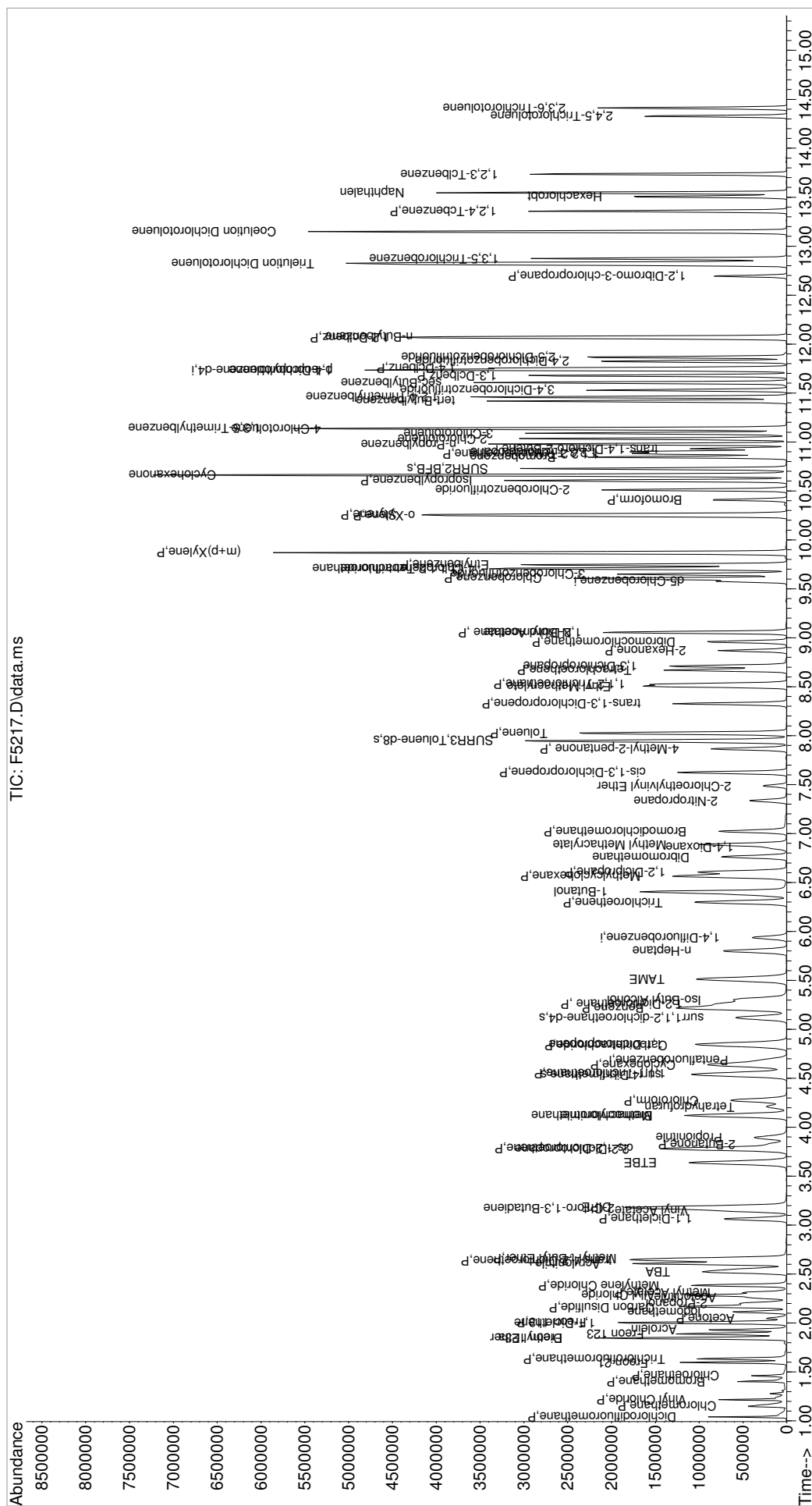
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\032619\
Data File	:	F5217.D
Acq On	:	26 Mar 2019 3:28 pm
Operator	:	F.NAEGLER
Sample	:	150 PPB STD
Misc	:	
ALS Vial	:	9 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 26 15:46:58 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:35:41 2019
Response via : Initial Calibration



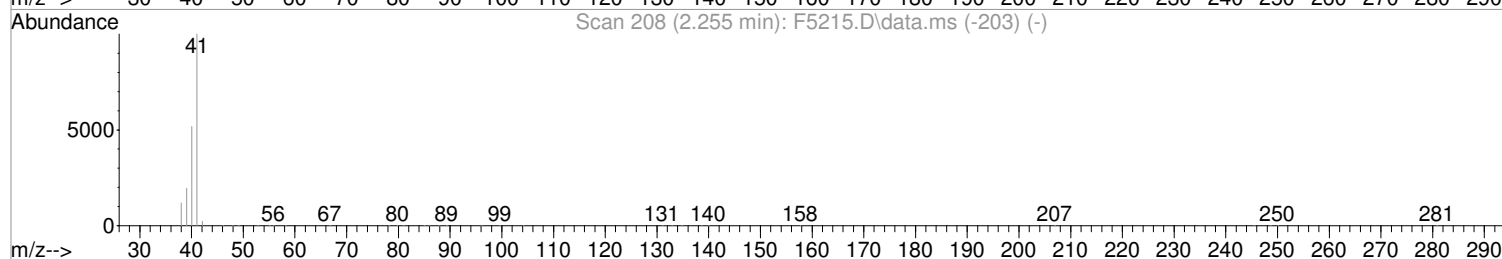
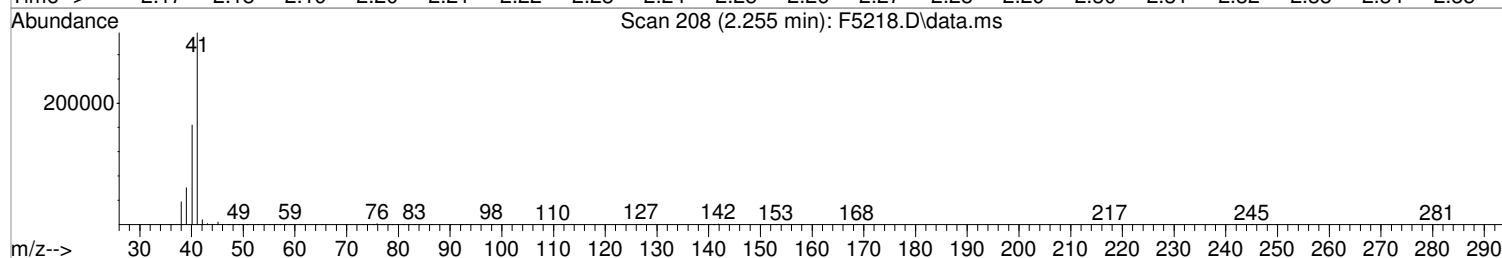
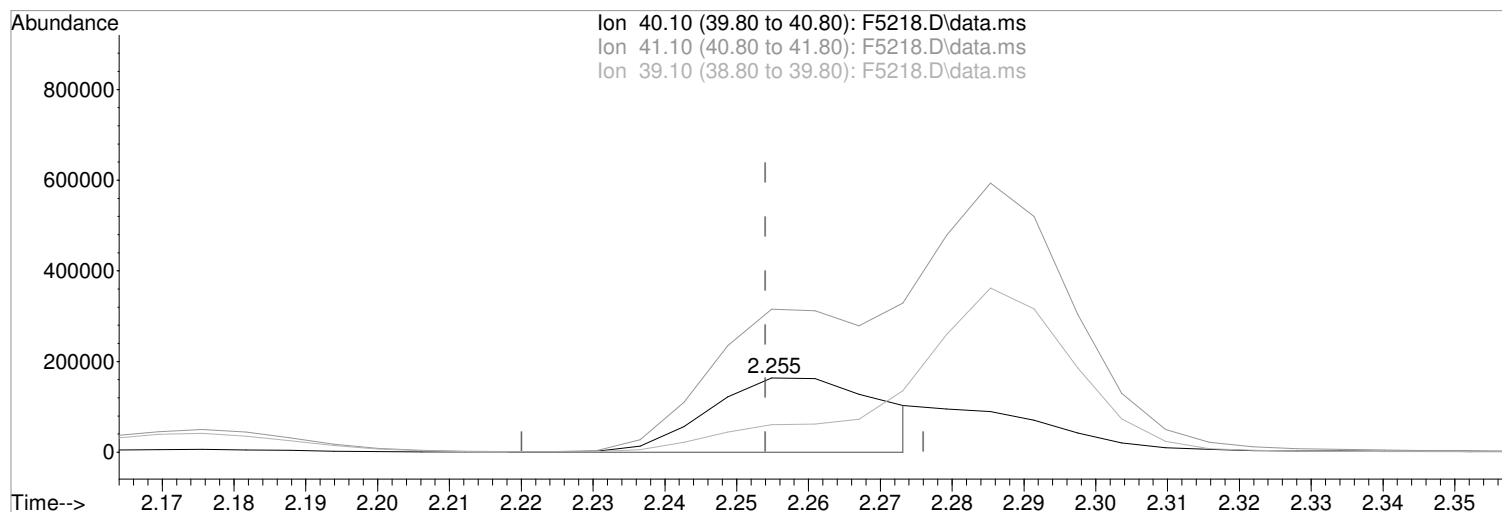
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5218.D
Acq On : 26 Mar 2019 3:50 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 16:07:17 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:47:55 2019
Response via : Initial Calibration



TIC: F5218.D\data.ms

(19) Acetonitrile

2.255min (+0.001) 981.85 ug/L m

response 274564

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	192.73
39.10	38.20	37.11
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

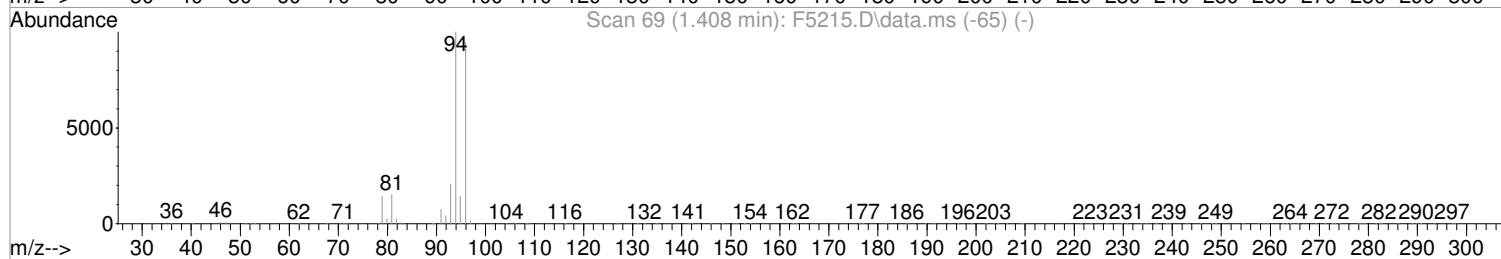
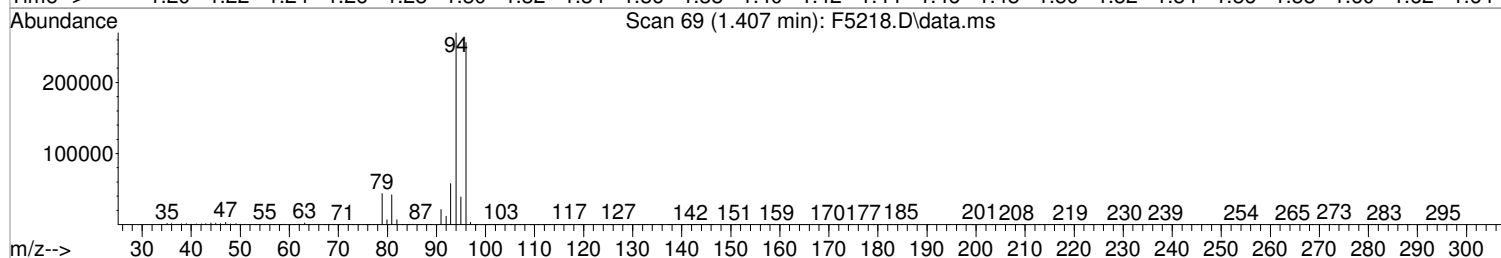
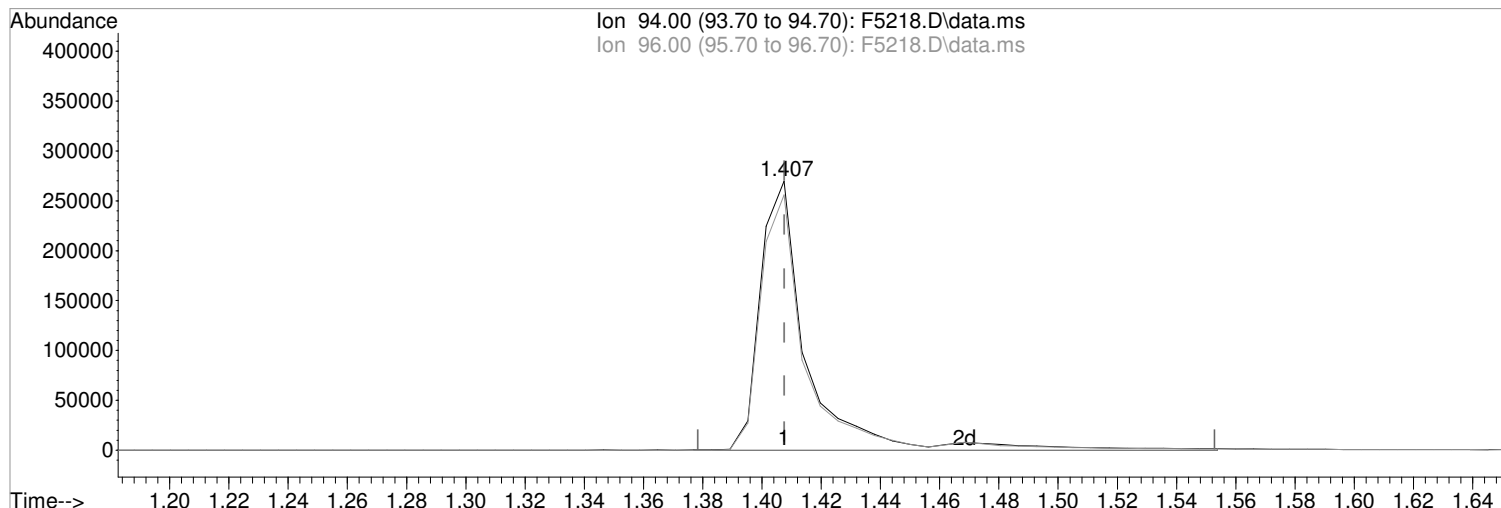
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5218.D
Acq On : 26 Mar 2019 3:50 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 16:07:17 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:47:55 2019
Response via : Initial Calibration



TIC: F5218.D\data.ms

(5) Bromomethane (P)

1.407min (-0.000) 136.99 ug/L m

response 299292

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	94.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5218.D
 Acq On : 26 Mar 2019 3:50 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 16:07:17 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:47:55 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	284250	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	421858	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	378971	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	209320	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	141208	50.23	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.46%	
47) surr1,1,2-dichloroetha...	5.120	65	164641	49.98	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.96%	
64) SURR3,Toluene-d8	7.949	98	567509	50.58	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.16%	
69) SURR2,BFB	10.723	95	222795	51.27	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	102.54%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	743044	226.52	ug/L	99
3) Chloromethane	1.151	50	768129	206.85	ug/L	98
4) Vinyl Chloride	1.218	62	734363	220.93	ug/L	99
5) Bromomethane	1.407	94	299292m	136.99	ug/L	
6) Chloroethane	1.468	64	421820	215.84	ug/L	99
7) Freon 21	1.603	67	1034961	220.23	ug/L	100
8) Trichlorofluoromethane	1.645	101	821062	220.53	ug/L	97
9) Diethyl Ether	1.846	59	537829	202.37	ug/L	99
10) Freon 123a	1.846	67	645634	221.84	ug/L	100
11) Freon 123	1.889	83	737291	222.27	ug/L	99
12) Acrolein	1.926	56	723064	986.30	ug/L	98
13) 1,1-Dicethene	2.005	96	515736	219.58	ug/L	98
14) Freon 113	2.011	101	467409	219.49	ug/L	99
15) Acetone	2.048	43	264173	188.29	ug/L	99
16) 2-Propanol	2.176	45	1354101	4451.77	ug/L	98
17) Iodomethane	2.115	142	802522	266.82	ug/L	100
18) Carbon Disulfide	2.170	76	1402521	226.43	ug/L	99
19) Acetonitrile	2.255	40	274564m	981.85	ug/L	
20) Allyl Chloride	2.285	76	293882	216.44	ug/L	# 88
21) Methyl Acetate	2.310	43	593306	206.12	ug/L	99
22) Methylene Chloride	2.389	84	589945	194.30	ug/L	99
23) TBA	2.517	59	2271771	4450.04	ug/L	97
24) Acrylonitrile	2.608	53	1636683	1019.19	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	1877513	208.72	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	558821	211.45	ug/L	98
27) 1,1-Dicethane	3.066	63	1031781	212.86	ug/L	99
28) Vinyl Acetate	3.145	86	142168	229.78	ug/L	99
29) DIPE	3.188	45	1778659	214.27	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.175	53	702485	220.99	ug/L	99
31) ETBE	3.639	59	1750430	222.09	ug/L	99
32) 2,2-Dichloropropane	3.779	77	807187	227.25	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	637563	208.94	ug/L	100
34) 2-Butanone	3.828	43	400253	193.08	ug/L	94
35) Propionitrile	3.895	54	703830	1069.21	ug/L	100
36) Bromochloromethane	4.120	130	426081	202.40	ug/L	98
37) Methacrylonitrile	4.126	67	353081	215.13	ug/L	92
38) Tetrahydrofuran	4.212	42	264099	193.77	ug/L	98
39) Chloroform	4.279	83	993641	206.95	ug/L	98
40) 1,1,1-Trichloroethane	4.547	97	848408	228.21	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
 Data File : F5218.D
 Acq On : 26 Mar 2019 3:50 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 16:07:17 2019
 Quant Method : C:\msdchem\1\METHODS\W032619.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Tue Mar 26 15:47:55 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1758862	225.77	ug/L	97
43) Cyclohexane	4.639	41	469878	223.17	ug/L	97
45) Carbontetrachloride	4.840	117	697548	238.66	ug/L	99
46) 1,1-Dichloropropene	4.852	75	753248	225.70	ug/L	99
48) Benzene	5.218	78	2352289	212.78	ug/L	99
49) 1,2-Dichloroethane	5.260	62	809283	205.47	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	988138	4694.92	ug/L	100
51) n-Heptane	5.803	43	624641	229.92	ug/L	96
52) 1-Butanol	6.394	56	1722065	12340.98	ug/L	99
53) Trichloroethene	6.303	130	642615	213.06	ug/L	99
54) Methylcyclohexane	6.565	55	677574	231.95	ug/L	99
55) 1,2-Dicloropropane	6.608	63	634570	211.27	ug/L	100
56) Dibromomethane	6.760	93	416437	207.47	ug/L	94
57) 1,4-Dioxane	6.852	88	276504	4283.91	ug/L	97
58) Methyl Methacrylate	6.888	69	581015	226.79	ug/L	99
59) Bromodichloromethane	7.022	83	779733	224.98	ug/L	100
60) 2-Nitropropane	7.339	41	357911	478.28	ug/L	93
61) 2-Chloroethylvinyl Ether	7.486	63	154673	260.20	ug/L	100
62) cis-1,3-Dichloropropene	7.626	75	1043935	228.74	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	769934	212.97	ug/L	99
65) Toluene	8.028	91	2554521	216.72	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	967788	240.47	ug/L	99
67) Ethyl Methacrylate	8.504	69	1021672	240.68	ug/L	98
68) 1,1,2-Trichloroethane	8.528	97	618351	206.83	ug/L	97
71) Tetrachloroethene	8.674	164	497904	202.58	ug/L	97
72) 2-Hexanone	8.869	43	592186	216.76	ug/L	99
73) 1,3-Dichloropropane	8.711	76	1061764	205.02	ug/L	99
74) Dibromochloromethane	8.961	129	653402	234.40	ug/L	99
75) N-Butyl Acetate	9.052	43	1157956	230.65	ug/L	100
76) 1,2-Dibromoethane	9.058	107	659973	213.59	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	909466	238.22	ug/L	98
78) Chlorobenzene	9.607	112	1669800	208.94	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	819079	236.63	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.705	131	607527	236.71	ug/L	99
81) Ethylbenzene	9.747	106	893048	221.41	ug/L	94
82) (m+p)Xylene	9.869	106	2213735	443.71	ug/L	95
83) o-Xylene	10.247	106	1095161	221.89	ug/L	99
84) Styrene	10.259	104	1900659	227.69	ug/L	97
85) Bromoform	10.412	173	475623	261.83	ug/L	99
86) 2-Chlorobenzotrifluoride	10.515	180	909684	236.30	ug/L	97
87) Isopropylbenzene	10.607	105	2838648	234.50	ug/L	99
88) Cyclohexanone	10.662	55	3034109	4248.04	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	231442	236.20	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.881	83	935441	214.07	ug/L	100
92) Bromobenzene	10.845	156	755744	208.95	ug/L	96
93) 1,2,3-Trichloropropane	10.900	110	308670	203.63	ug/L	99
94) n-Propylbenzene	10.979	91	3281784	232.76	ug/L	99
95) 2-Chlorotoluene	11.034	91	1957955	220.05	ug/L	98
96) 3-Chlorotoluene	11.088	91	1994152	230.48	ug/L	99
97) 4-Chlorotoluene	11.131	91	2239773	217.94	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	2335848	230.62	ug/L	99
99) tert-Butylbenzene	11.418	119	2022645	230.64	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	2371093	231.35	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	719507	234.77	ug/L	98
102) sec-Butylbenzene	11.607	105	2960044	237.08	ug/L	99
103) p-Isopropyltoluene	11.735	119	2494115	234.49	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5218.D
Acq On : 26 Mar 2019 3:50 pm
Operator : F.NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 26 16:07:17 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:47:55 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	1397004	214.03	ug/L	98
105) 1,4-Dclbenz	11.759	146	1413277	205.06	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	651495	235.61	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	750164	236.72	ug/L	97
108) n-Butylbenzene	12.076	91	2256119	242.55	ug/L	98
109) 1,2-Dclbenz	12.064	146	1401300	211.08	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.692	157	262057	259.79	ug/L	98
111) Trielution Dichlorotol...	12.826	125	3506164	743.46	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	991775	235.69	ug/L	97
113) Coelution Dichlorotoluene	13.149	125	2551339	505.48	ug/L	97
114) 1,2,4-Tcbenzene	13.362	180	1019055	242.86	ug/L	98
115) Hexachlorobt	13.509	225	417897	219.40	ug/L	99
116) Naphthalen	13.545	128	3151337	258.66	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	1008583	249.52	ug/L	99
118) 2,4,5-Trichlorotoluene	14.326	159	502289	473.15	ug/L	97
119) 2,3,6-Trichlorotoluene	14.411	159	589824	466.24	ug/L	98

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

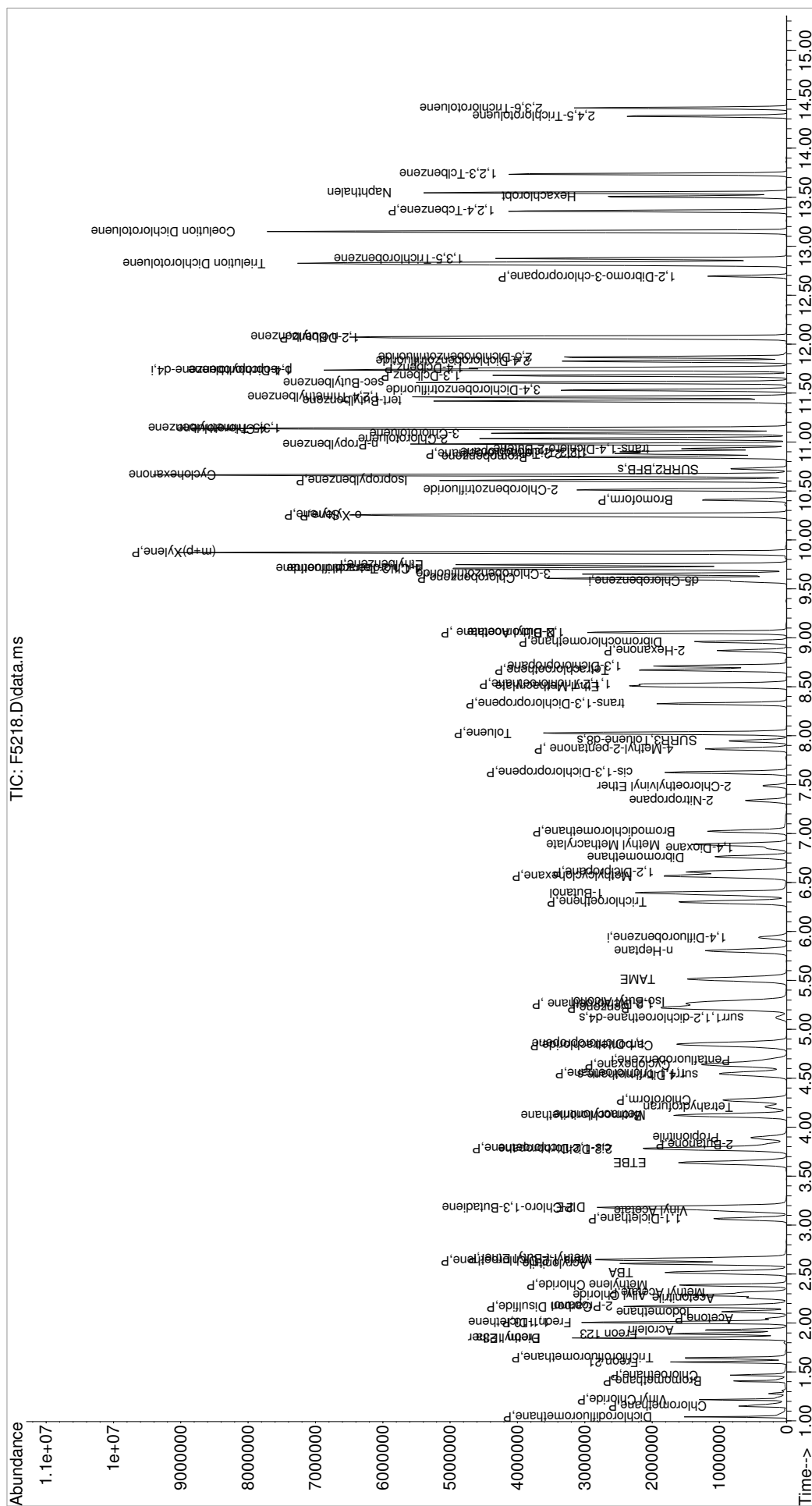
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\032619\
Data File	:	F5218.D
Acq On	:	26 Mar 2019 3:50 pm
Operator	:	F.NAEGLER
Sample	:	200 PPB STD
Misc	:	
ALS Vial	:	10 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 26 16:07:17 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 15:47:55 2019
Response via : Initial Calibration



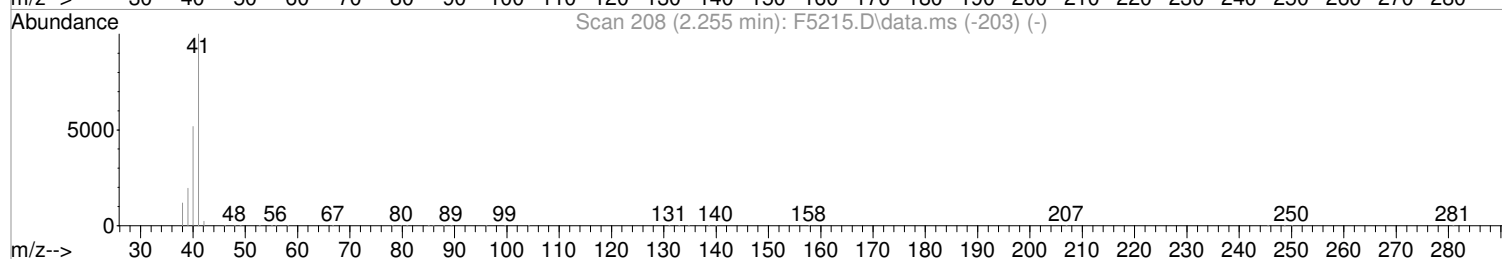
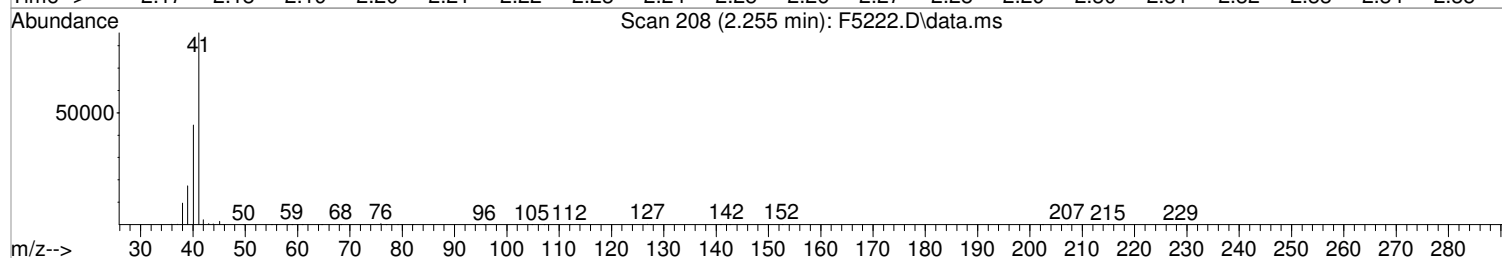
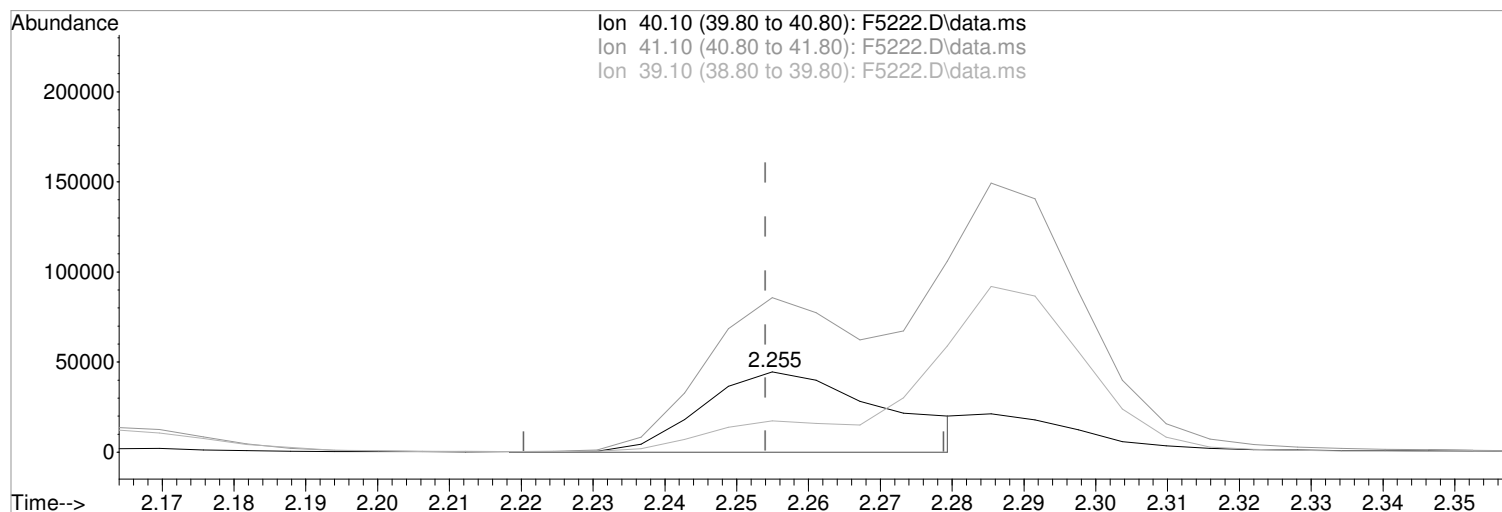
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5222.D
Acq On : 26 Mar 2019 5:20 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 30 14:51:07 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



TIC: F5222.D\data.ms

(19) Acetonitrile

2.255min (+0.001) 278.75 ug/L m

response 78209

Ion	Exp%	Act%
40.10	100	100
41.10	192.60	192.35
39.10	38.20	38.87
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

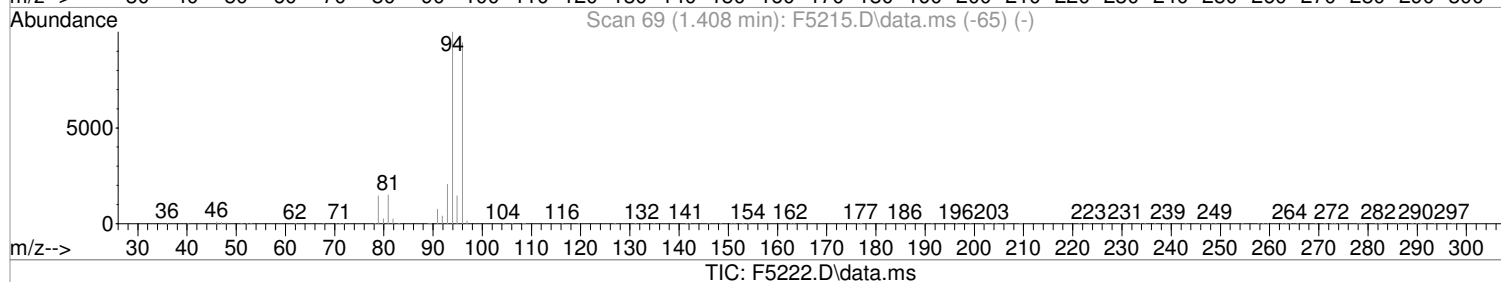
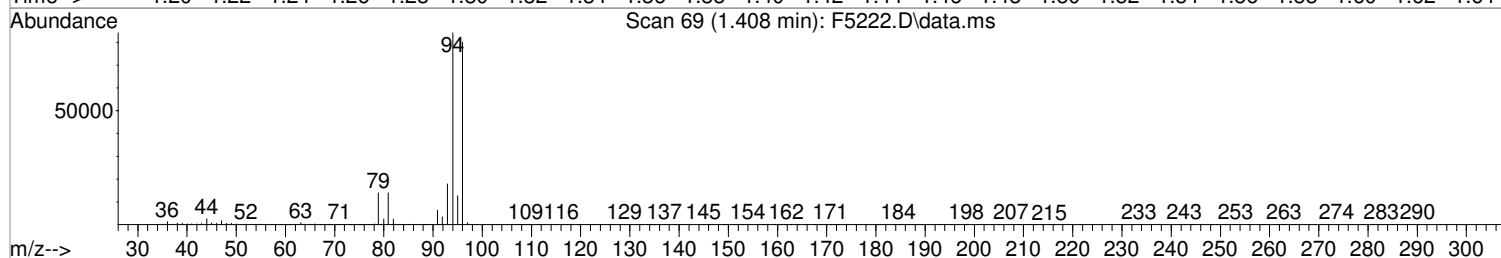
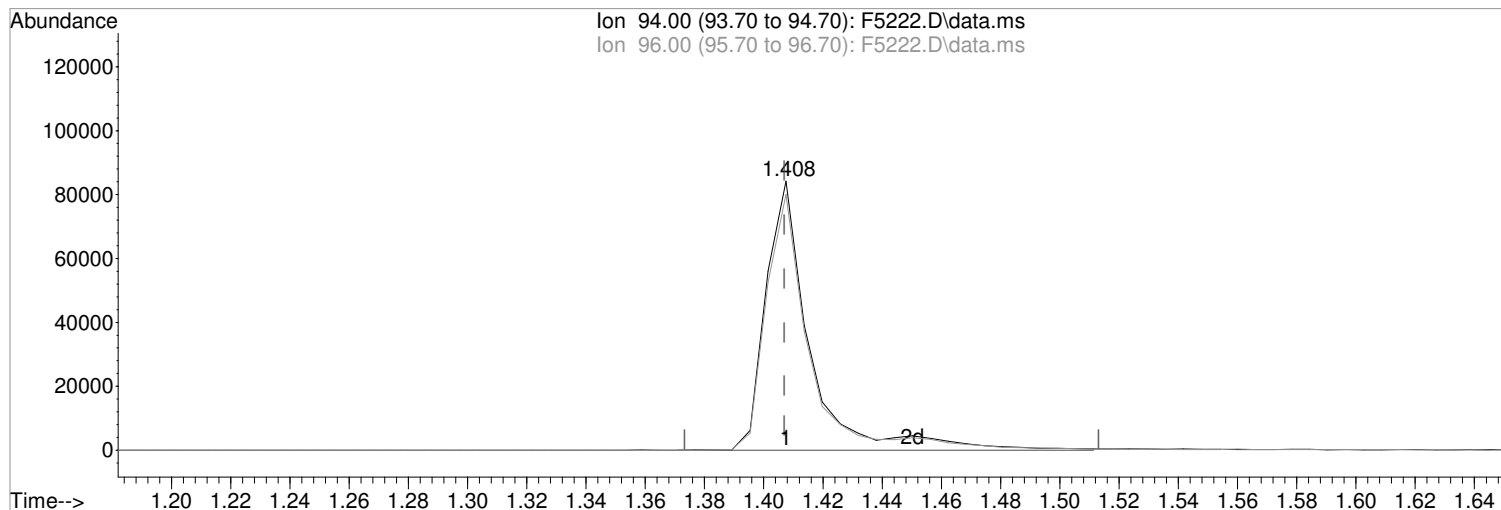
Quantitation Report (Qedit)

1st *FJ* 04/01/19
2nd *RL* 04/01/19

Data Path : I:\ACQUDATA\MSVOA14\Data\032619\
Data File : F5222.D
Acq On : 26 Mar 2019 5:20 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 30 14:51:07 2019
Quant Method : C:\msdchem\1\METHODS\W032619.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Tue Mar 26 16:08:17 2019
Response via : Initial Calibration



(5) Bromomethane (P)

1.408min (+0.001) 46.01 ug/L m

response 87822

Ion	Exp%	Act%
94.00	100	100
96.00	94.50	95.21
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

04/01/19

ALS Group USA, Corp.

DBA ALS Environmental

QC/QC Report

Date Analyzed: 3/26/19 11:02

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\032619\F5208.D

Analytical Method: 8260C/624.1

Instrument ID: R-MS-14

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	17.6	23237	PASS
75	95	30	60	47.4	62467	PASS
95	95	100	100	100.0	131880	PASS
96	95	5	9	6.7	8865	PASS
173	174	0	2	0.7	755	PASS
174	95	50	120	85.5	112733	PASS
175	174	5	9	7.3	8187	PASS
176	174	95	101	95.7	107848	PASS
177	176	5	9	6.9	7451	PASS

Sample Name	Lab Code	File ID:	Date Analyzes: Q
ICAL BLK	ICAL BLK	I:\ACQUDATA\MSVOA14\DATA\032619\F5209.D	3/26/19 11:47
0.5 PPB STD	0.5 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5210.D	3/26/19 12:53
1.0 PPB STD	1.0 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5211.D	3/26/19 13:15
2.0 PPB STD	2.0 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5212.D	3/26/19 13:37
5.0 PPB STD	5.0 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5213.D	3/26/19 13:59
20 PPB STD	20 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5214.D	3/26/19 14:21
50 PPB STD	50 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5215.D	3/26/19 14:44
100 PPB STD	100 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5216.D	3/26/19 15:06
150 PPB STD	150 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5217.D	3/26/19 15:28
200 PPB STD	200 PPB STD	I:\ACQUDATA\MSVOA14\DATA\032619\F5218.D	3/26/19 15:50
50 PPB ICV	50 PPB ICV	I:\ACQUDATA\MSVOA14\DATA\032619\F5222.D	3/26/19 17:20

Analysis: 82601624 Analyst: F. Nagler pH strips: — Tune Method: W032619.M
 Date: 3/26/19 Balance ID: — ResCl strips: — Run Method: ↓
 Instr: MS #14 50 mL Class A used for dilution FV Syringes: 190697/77958 LIMS Run#: —

Data Path: j:\acquadata\msvoa4\InstID\Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							F5206	✓	
2	BLK							07	✓	
3	TUES							08	✓	
1	ICAL BLK							09	✓	
2	0.5 pop std							10	✓	
3	1.0							11	✓	
4	2.0							12	✓	
5	5.0							13	✓	
6	20							14	✓	
7	50							15	✓	
8	100							16	✓	
9	150							17	✓	
10	200							18	✓	
11	BLK							19	✓	
12	↓							20	✓	
13	50 pop ICV							21	✓	
14	BLK							22	✓	
11	BLK							23	✓	
12	↓							24	✓	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1° T/G = 197760	10ul/10ul 5ul/5ul	10ul/10ul 5ul/5ul	20ul/10ul 5ul/5ul	50ul/10ul 5ul/5ul	2ul/5ul 5ul/5ul	5ul/5ul 5ul/5ul	10ul/5ul 5ul/5ul	15ul/5ul 20ul/5ul	20ul/5ul
1° HSL = 197761	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Fc = 197789	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 197917	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged
 Primary SEA TABLE ABOVE
 Primary FC Secondary 200 : 197869 - 12.5mL
 Primary T/G Secondary 50 : 197372 - 5ul
 Primary HSL Secondary ↓ : 197777 - 5ul
 Primary OCC Secondary ↓ : 195890 - 5ul (ICV)
 Secondary
 O-1003 Page 43
 Runlog-MSVOA4 1/17/17

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QA/QC Report

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

Service Request: R1902432
Calibration Date: 3/26/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1900035
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1900035-01	0.5 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5210.D	03/26/2019 12:53
02	RC1900035-02	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5211.D	03/26/2019 13:15
03	RC1900035-03	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5212.D	03/26/2019 13:37
04	RC1900035-04	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5213.D	03/26/2019 13:59
05	RC1900035-05	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5214.D	03/26/2019 14:21
06	RC1900035-06	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5215.D	03/26/2019 14:44
07	RC1900035-07	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5216.D	03/26/2019 15:06
08	RC1900035-08	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5217.D	03/26/2019 15:28
09	RC1900035-09	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\032619\F5218.D	03/26/2019 15:50

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5981	02	1.000	0.629	03	2.000	0.5451	04	5.000	0.6346
05	20.000	0.7182	06	50.000	0.7113	07	100.000	0.7065	08	150.000	0.6887
09	200.000	0.7462									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7438	02	1.000	0.8361	03	2.000	0.772	04	5.000	0.8642
05	20.000	0.9394	06	50.000	0.9023	07	100.000	0.8923	08	150.000	0.8708
09	200.000	0.9075									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3951	02	1.000	0.3995	03	2.000	0.3607	04	5.000	0.387
05	20.000	0.4628	06	50.000	0.4443	07	100.000	0.4359	08	150.000	0.4199
09	200.000	0.4536									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.6049	05	20.000	0.4866	06	50.000	0.4988	07	100.000	0.5028
08	200.000	0.482									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3847	05	20.000	0.3125	06	50.000	0.3309	07	100.000	0.3287
08	200.000	0.309									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4042	02	1.000	0.3542	03	2.000	0.2853	04	5.000	0.3034
05	20.000	0.3246	06	50.000	0.3236	07	100.000	0.3098	08	150.000	0.2892
09	200.000	0.3285									

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QA/QC Report

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

Service Request: R1902432
Calibration Date: 3/26/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1900035
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.551	05	20.000	1.276	06	50.000	1.304	07	100.000	1.299
08	200.000	1.22									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3118	02	1.000	0.3577	03	2.000	0.3092	04	5.000	0.3582
05	20.000	0.395	06	50.000	0.388	07	100.000	0.38	08	150.000	0.3599
09	200.000	0.3808									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5292	02	1.000	0.5328	03	2.000	0.483	04	5.000	0.5611
05	20.000	0.6575	06	50.000	0.6522	07	100.000	0.6479	08	150.000	0.6139
09	200.000	0.6459									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4792	02	1.000	0.5578	03	2.000	0.5028	04	5.000	0.5344
05	20.000	0.5767	06	50.000	0.5528	07	100.000	0.5473	08	150.000	0.5431
09	200.000	0.5607									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4515	02	1.000	0.4861	03	2.000	0.4133	04	5.000	0.4435
05	20.000	0.5026	06	50.000	0.4851	07	100.000	0.4747	08	150.000	0.4621
09	200.000	0.4915									

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

Service Request: R1902432
Calibration Date: 3/26/2019

Initial Calibration Summary Volatile Organic Compounds by GC/MS

Calibration ID: RC1900035

Signal ID: 1

Instrument ID: R-MS-14

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	9.9	≤20	0.6642	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	7.5	≤20	0.8587	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	8.2	≤20	0.4176	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	9.9	≤20	0.515	
Dibromofluoromethane	SURR	Average RF	% RSD	9.1	≤20	0.3332	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	11.3	≤20	0.3247	0.200
Toluene-d8	SURR	Average RF	% RSD	9.6	≤20	1.33	
Trichloroethene (TCE)	TRG	Average RF	% RSD	8.6	≤20	0.3601	0.200
Vinyl Chloride	TRG	Average RF	% RSD	11.1	≤20	0.5915	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.6	≤20	0.5394	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.0	≤20	0.4678	0.100

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QA/QC Report

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

Service Request: R1902432
Calibration Date: 3/26/2019

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1900035
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1900035-10	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\032619\F5222.D	03/26/2019 17:20

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	56.7	6.642E-1	7.531E-1	13.39	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	53.7	8.587E-1	9.225E-1	7.43	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	56.5	4.176E-1	4.721E-1	13.04	±30	Average RF
Tetrachloroethene (PCE)	50.0	51.4	3.247E-1	3.339E-1	2.83	±30	Average RF
Trichloroethene (TCE)	50.0	53.2	3.601E-1	3.832E-1	6.43	±30	Average RF
Vinyl Chloride	50.0	55.3	5.915E-1	6.544E-1	10.63	±30	Average RF
cis-1,2-Dichloroethene	50.0	52.4	5.394E-1	5.648E-1	4.70	±30	Average RF
trans-1,2-Dichloroethene	50.0	54.0	4.678E-1	5.049E-1	7.92	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	49.2	5.15E-1	5.067E-1	-1.624	±30	Average RF
Dibromofluoromethane	50.0	50.3	3.332E-1	3.354E-1	0.676	±30	Average RF
Toluene-d8	50.0	49.6	1.33E0	1.32E0	-0.777	±30	Average RF

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/27/19 22:26

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\032719\F5257.D\
Signal ID: 1

Calibration Date: 3/26/2019
Calibration ID: RC1900035
Analysis Lot: 629686
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	51.9	0.6642	0.6896	3.8	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.4	0.8587	0.8829	2.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	50.5	0.4176	0.4215	0.9	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	47.4	0.3247	0.3081	-5.1	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.0	0.3601	0.3672	2.0	NA	±20	Average RF
Vinyl Chloride	50.0	51.9	0.5915	0.6144	3.9	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	49.9	0.5394	0.5386	-0.1	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.7	0.4678	0.4655	-0.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	49.5	0.515	0.5096	-1.0	NA	±20	Average RF
Dibromofluoromethane	50.0	51.6	0.3332	0.3439	3.2	NA	±20	Average RF
Toluene-d8	50.0	50.7	1.3299	1.3478	1.3	NA	±20	Average RF

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QA/QC Report

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

Service Request: R1902432
Date Analyzed: 03/28/19 11:33

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\MSVOA14\Data\032819\F5289.D\
Signal ID: 1

Calibration Date: 3/26/2019
Calibration ID: RC1900035
Analysis Lot: 629878
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	56.3	0.6642	0.7475	12.5	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	54.2	0.8587	0.9309	8.4	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	56.0	0.4176	0.4674	11.9	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	53.2	0.3247	0.3457	6.5	NA	±20	Average RF
Trichloroethene (TCE)	50.0	53.5	0.3601	0.3854	7.0	NA	±20	Average RF
Vinyl Chloride	50.0	56.6	0.5915	0.6695	13.2	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	52.2	0.5394	0.5626	4.3	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	54.0	0.4678	0.5051	8.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	47.8	0.515	0.4924	-4.4	NA	±20	Average RF
Dibromofluoromethane	50.0	49.0	0.3332	0.3268	-1.9	NA	±20	Average RF
Toluene-d8	50.0	48.8	1.3299	1.299	-2.3	NA	±20	Average RF

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QA/QC Report

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

Service Request: R1902432

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot: 629686
Instrument ID: R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\032719\F5256.D\	ZZZZZZZ	ZZZZZZZ	3/27/2019	22:03:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5256.D\	ZZZZZZZ	ZZZZZZZ	3/27/2019	22:03:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5257.D\	ZZZZZZZ	ZZZZZZZ	3/27/2019	22:26:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5257.D\	Continuing Calibration Verification	RQ1902672-02	3/27/2019	22:26:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5258.D\	Lab Control Sample	RQ1902672-03	3/27/2019	22:48:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5258.D\	ZZZZZZZ	ZZZZZZZ	3/27/2019	22:48:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5260.D\	ZZZZZZZ	ZZZZZZZ	3/27/2019	23:32:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5260.D\	Method Blank	RQ1902672-04	3/27/2019	23:32:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5261.D\	ZZZZZZZ	ZZZZZZZ	3/27/2019	23:55:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5262.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	00:17:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5263.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	00:39:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5265.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	01:24:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5266.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	01:46:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5268.D\	TB 032019	R1902432-001	3/28/2019	02:31:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5269.D\	FB 032019	R1902432-005	3/28/2019	02:53:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5270.D\	MW-10	R1902432-002	3/28/2019	03:15:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5273.D\	MW-16	R1902432-006	3/28/2019	04:11:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5275.D\	DUP 032019	R1902432-008	3/28/2019	04:52:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5276.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	05:14:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5277.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	05:37:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5278.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	05:59:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5279.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	06:21:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5280.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	06:44:00	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

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

Service Request:R1902432

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:629686
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\032719\F5281.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	07:06:00	
I:\ACQUDATA\MSVOA14\Data\032719\F5282.D\	ZZZZZZZ	ZZZZZZZ	3/28/2019	07:28:00	

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dba ALS Environmental

QA/QC Report

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

Service Request: R1902432

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot: 629878
Instrument ID: R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\032819\F5288.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	10:59:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5289.D\	Continuing Calibration Verification	RQ1902753-02	3/28/2019	11:33:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5290.D\	Lab Control Sample	RQ1902753-03	3/28/2019	12:07:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5292.D\	Method Blank	RQ1902753-04	3/28/2019	13:00:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5293.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	13:29:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5294.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	13:53:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5295.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	14:15:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5296.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	14:37:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5297.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	14:59:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5298.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	15:22:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5299.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	15:44:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5300.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	16:06:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5301.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	16:28:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5302.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	16:50:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5304.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	17:35:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5305.D\	MW-17	R1902432-003	3/28/2019	17:57:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5306.D\	MW-9	R1902432-004	3/28/2019	18:19:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5307.D\	MW-8	R1902432-007	3/28/2019	18:42:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5308.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	19:04:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5310.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	19:48:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5311.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	20:11:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5312.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	20:33:00	
I:\ACQUDATA\MSVOA14\Data\032819\F5313.D\	ZZZZZZZZ	ZZZZZZZZ	3/28/2019	20:55:00	

Analysis: 8260C Analyst: F. H. Hager pH strips: 204018 Tune Method: W032619.M
 Date: 3/27/19 #2 Balance ID: --- ResCl strips: --- Run Method: ↓
 Instr: MS 14 50 mL Class A used for dilution FV Syringes: 190697 / 77958 LIMS Run#: 629686

Data Path: j:\acquadat\msv\oa4\InstID\ (Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
30	TUNE							F5256	Y	
31	CCV							57	Y	
32	LC5-FP							58	Y	
33	MBL							59	(N)	
34	MBL							60	Y	
35	R1902651-001	1.0		19818	2	1	<2	61	Y	
36	↓	1.0		↓	↓	1	<2	62	Y	
37	R1902488-001	1.0		6813	2	1	<2	63	Y	
38	(R1902403-001)	50.0	1/50mL	9443	2	1	<2	64	(N)	Rpt 1/10
39	R1902441-001	10.0	5/50mL	6368	2	1	<2	65	Y	foray?
40	↓	20.0	2.5/50mL	↓	↓	1	<2	66	Y	
41	(R1902468-001)	2500	1/250mL → 2/50mL	6644	2	1	<2	67	(N)	Rpt 1/50
42	R1902432-001	1.0		6646	4	1	<2	68	Y	
43	↓	1.0		↓	↓	1	<2	69	Y	
44	↓	1.0		↓	↓	1	<2	70	Y	
45	↓	1.0		↓	↓	1	<2	71	(N)	Rpt 1/10 foray error
46	↓	1.0		↓	↓	1	<2	72	(N)	↓
47	↓	1.0		↓	↓	1	<2	73	Y	
48	↓	1.0		↓	↓	1	<2	74	(N)	Rpt 1/10 foray error
49	↓	1.0		↓	↓	1	<2	75	Y	
50	R01902361-01	1.0		6680	2	1	<2	76	Y	
51	R1902253-001	10.0	5/50mL	↓	↓	1	<2	77	Y	
52	R1902279-001	10.0		↓	↓	1	<2	78	Y	
53	R1902336-001	10.0		↓	↓	1	<2	79	Y	
54	↓	10.0		↓	↓	1	<2	80	Y	
55	↓	10.0		↓	↓	1	<2	81	Y	
56	↓	10.0		↓	↓	1	<2	82	Y	
57	BLK			↓	↓	1	<2	83	Y	
58	↓			↓	↓	1	<2	84	Y	
59	BLK			↓	↓	1	<2	85	Y	
60	BLK			↓	↓	1	<2	86	Y	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr. -

T/G Primary 500 : 197760 - 5uL 50mL
 H/L Primary : 197761 -
 F/L Primary : 197789 -
 O/L Primary : 197917 -
 (CCV)

T/G Secondary 200 : 197869 - 5uL
 H/L Secondary 500 : 197372 - 2uL 50mL
 F/L Secondary : 197777 -
 O/L Secondary : 198044 -
 (L/L) (S/L)

T/G Secondary 200 : 197869 - 5uL
 H/L Secondary 500 : 197372 - 2uL 50mL
 F/L Secondary : 197777 -
 O/L Secondary : 198044 -
 (L/L) (S/L)

Preparation Information Benchsheet

Prep Run#: 333267
Team: Metals/CWOODS

Prep Workflow: TCLP ZHE
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/20/19 05:30 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1902361-01	MB		25g	EPA 1311/TCLP ZHE				500.00mL			
2	R1902253-001	8-MON-004-003-01	.02	25.0100g	EPA 1311/TCLP ZHE				500.00mL			
3	R1902279-001	Spent Carbon B316 Influent Blend Tank IBM	.01	25.1300g	EPA 1311/TCLP ZHE				500.00mL			
4	R1902336-001	WC-IDW-03-031819	.02	25.1300g	EPA 1311/TCLP ZHE				500.00mL			
5	R1902336-003	WC-IDW-02-HS-031819	.02	25.0900g	EPA 1311/TCLP ZHE				500.00mL			

Preparation Steps

Step: Leach
Started: 3/20/19 17:30
Finished: 3/21/19 10:50
By: CWOODS
Comments

Comments:

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analyst:

Volatile TCP Extraction ZHE - EPA 1311

Therm ID: 418.

CF°C: -0.1°C

$$\frac{\text{Obs}^{\circ}\text{C}}{\text{Corr}^{\circ}\text{C}}$$

Min

Max

Within Limits (21-25°C)? yes
Comments:

Balance: R-20
Concentrate: 187312
Filter Lot: 3/21/19
Filter Date: 86338
Bottle Lot: —

Fluid 1 prepared from concentrate daily

PH 4.93±0.05

Fluid 1 prepared from concentrate daily

Rotator ID	5							
Date started	3/20/19							
Time started	1730							
RPM (daily when full)	29							
Within 28-32rpm?	yes							
Date ended	3/21/19							
Time ended	1050							

o-Ring/vessel check:

[illegible]

*Reduce until will pass 9.5mm sieve

P: 333267

Percent Solids Determination, if needed

Order #

Ws: Weight of sample

Wc: Tare Wt of container

Wcs: Final Wt of container

$$\% \text{solids} = 100 \times (W_s - (W_{cs} - W_c)) / W_s$$

Percent Solids Determination: 11.50%

P:\INTRANET\QAQC\Forms Controlled\ZHE TCLP bench r5

Analysis: 8260 Analyst: F. N. Ogilvie pH strips: 204018 Tune Method: W032619.M
 Date: 3/28/19 Balance ID: --- ResCl strips: --- Run Method: ↓
 Instr: MS #114 50 mL Class A used for dilution FV Syringes: 190697 / 77958 LIMS Run#: 029878
 Data Path: j:\acqdata\msvoa4\InstID\Date)

Pos.	Sample	Diln.	Diln. Prep	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							F5287	✓	
2	TUNE							88	✓	
1	LCV							89	✓	
2	LCV-FP							90	✓	
3	M3BLK							91	✓	
4	M3BLK							92	✓	
5	R1902443-001	1.0		LC	6656	3	1	42	43	✓
6		1.0						42	43	✓
7		1.0						42	43	✓
8		1.0						42	43	✓
9		1.0						42	43	✓
10		1.0						42	43	✓
11	R1902353-004	1.0			6368	4	1	42	43	✓
12	R1902598-001	1.0			9443	2	1	42	F5300	✓
13		1.0						42	01	✓
14		1.0						42	02	✓
15		1.0						42	03	✓
16	R1902403-001	10.0	5/50mL		9443	2	2	42	04	✓
17	R1902432-003	10.0			6646	4	2	42	05	✓
18		10.0						42	06	✓
19		10.0						42	07	✓
20	R1902516-002	1.0			8768	2	1	42	08	✓
21		25.0	2/50mL					42	09	✓
22	R1902573-001	2.0	25/50mL		18619	2	1	42	10	✓
23	R1902468-001	500.0	1/100mL → 10/50mL		6694	2	1	42	11	✓
24	R1902269-002MS	1.0			8043	4	4	42	12	✓
25		1.0						42	13	✓
26	BLK								14	✓
27									15	✓
28									16	✓
29									17	✓

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr

T16 Primary 500 : 197760 - 2mL | 5mL
 H5L Primary : 197761 -
 Fr Primary : 197789 -
 200 Primary : 197917 -
 Primary
 Secondary 200 : 197869 - 5mL
 T16 Secondary 500 : 197372 - 2mL
 H5L Secondary : 197777 -
 200 Secondary : 198044 -
 Secondary
 Surrogate 50 : 197705
 Internal Std 50 : 197706
 Reagents: (SRA)
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 Runlog-MSVOA4 1/17/17



October 07, 2019

Service Request No:R1909228

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

Laboratory Results for: Dover - Binghamton

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory September 24, 2019
For your reference, these analyses have been assigned our service request number **R1909228**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, 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), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

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

Meghan Pedro for
Janice Jaeger
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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dba ALS Environmental



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Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



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

Service Request: R1909228
Date Received: 09/24/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Eleven water samples were received for analysis at ALS Environmental on 09/24/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, R1909228-003: Sample(s) required dilution due to dark matrix. The reporting limits are adjusted to reflect the dilution.

Approved by

A handwritten signature in black ink, appearing to read "Jamaica".

Date

10/07/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-17 092319	Lab ID: R1909228-002

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	5.1		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	31		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	2.6		0.25	1.0	ug/L	8260C
Trichloroethene (TCE)	32		0.20	1.0	ug/L	8260C
Vinyl Chloride	0.25	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	66		0.23	1.0	ug/L	8260C

CLIENT ID: MW-10 092319	Lab ID: R1909228-005

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	2.1		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.76	J	0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	1.1		0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	17		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	2.8		0.23	1.0	ug/L	8260C

CLIENT ID: MW-9 092319	Lab ID: R1909228-007

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.49	J	0.21	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.29	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	21		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	0.32	J	0.23	1.0	ug/L	8260C

CLIENT ID: MW-8 092319	Lab ID: R1909228-009

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	1.7		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	3.2		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	13		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	4.1		0.23	1.0	ug/L	8260C

CLIENT ID: MW-16 092319	Lab ID: R1909228-010

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	7.7		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	23		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.27	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	6.6		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	32		0.23	1.0	ug/L	8260C

CLIENT ID: DUP 092319	Lab ID: R1909228-011

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	7.6		0.21	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	23		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.28	J	0.25	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.27	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	7.1		0.20	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY**CLIENT ID: DUP 092319****Lab ID: R1909228-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	35		0.23	1.0	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

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

Service Request:R1909228

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1909228-001	TB 092319	9/23/2019	
R1909228-002	MW-17 092319	9/23/2019	1450
R1909228-003	MW-11 092319	9/23/2019	1525
R1909228-004	MW-13 092319	9/23/2019	1525
R1909228-005	MW-10 092319	9/23/2019	1605
R1909228-006	FB 092319	9/23/2019	1630
R1909228-007	MW-9 092319	9/23/2019	1555
R1909228-008	DMW-3 092319	9/23/2019	1710
R1909228-009	MW-8 092319	9/23/2019	1715
R1909228-010	MW-16 092319	9/23/2019	1721
R1909228-011	DUP 092319	9/23/2019	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

58819

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

Project Name Dover - Binghamton		Project Number 5101.0003		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																
Project Manager Sarah MacCarfe		Report CC		PRESERVATIVE																
Company/Address Verina Consulting Group LLC		Email smaccarter@vcg-llc.com		NUMBER OF CONTAINERS	GC/MS VOCs • 8260 • 824 • CLP	GC/MS SVOCs • 8270 • 825	GC VOCs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	PCE/TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	1,1-DCA	1,1,1-TCA	VC	Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____	
1011 US Highway 22																				
Bridgewater NJ																				
Phone # 908 864 4400																				
Sampler's Signature 		Sampler's Printed Name Rita De Almeida		REMARKS/ ALTERNATE DESCRIPTION																
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE TIME		MATRIX																
TP 092319		09/23/19		TB																
MW-17 092319/112/19		09/23/19 1450		GW	X X X X X X X NO HCL															
MW-17 092319 MS		09/23/19 1450		GW	X X X X X X X NO HCL															
MW-17 092319 MSO		1450		GW	X X X X X X X NO HCL															
MW-11 092319		1525		GW	X X X X X X X															
MW-13 092319		1525		GW	X X X X X X X NO HCL															
MW-10 092319		1605		GW	X X X X X X X															
FB 092319		1630		FB	X X X X X X X															
MW-9 092319		1555		GW	X X X X X X X															
DMW-3 092319		1710		GW	X X X X X X X															
MW-8 092319		1715		GW	X X X X X X X NO HCL															
SPECIAL INSTRUCTIONS/COMMENTS Metals Voc bottles w/out HCl have thiosulfate					TURNAROUND REQUIREMENTS ____ RUSH (SURCHARGES APPLY) ____ 1 day ____ 2 day ____ 3 day ____ 4 day ____ 5 day ____ X Standard (10 business days-No Surcharge) 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 # 5101.0003 BILL TO: Verina Consulting Group, LLC					
See QAPP ☐																				
STATE WHERE SAMPLES WERE COLLECTED																				
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY						
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature						
Printed Name Rita De Almeida		Printed Name Gary Bohan		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name						
Firm Verina Consulting		Firm ALS		Firm		Firm		Firm		Firm		Firm		Firm						
Date/Time 1825 09/23/19		Date/Time 9/24/19 0925		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time						

R1909228
Verina Consulting Group, LLC
Dover - Binghamton

5





Cooler Receipt and Preservation Check Form

R1909228

Verina Consulting Group, LLC
Dover - Binghamton

5

Project/Client Dover - Binghamton / Verina Consulting Group Folder Number _____

Cooler received on 9/24/19 by GB

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 9/24 Time: 0938 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.0</u>						
Correction Factor (°C)	<u>0.0</u>						
Corrected Temp (°C)	<u>4.0</u>						
Temp from: Type of bottle	<u>Cent tube</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	<u>Y</u> <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by GB on 9/24 at 0945
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 9/24/19 Time: 1345 by: SW

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

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>41800</u>					

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

Bottle lot numbers: 9-093-001, 9-093-002
Explain all Discrepancies/ Other Comments: _____

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

Labels secondary reviewed by: SW

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm; WC > 1 in. diameter

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Internal Chain of Custody Report

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

Service Request: R1909228

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1909228-001.01	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/29/2019	1047	In Lab / KRUEST	
		9/29/2019	1125	R-001-S12 / KRUEST	
R1909228-001.02					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-001.03					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-002.01	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/25/2019	1240	In Lab / FNAEGLER	
		9/25/2019	1441	R-001-S08 / FNAEGLER	
R1909228-002.02					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-002.03					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-002.04					
		9/24/2019	1356	SMO / GLAFORCE	
R1909228-002.05					
		9/24/2019	1356	SMO / GLAFORCE	
R1909228-002.06					
		9/24/2019	1356	SMO / GLAFORCE	
R1909228-002.07					
		9/24/2019	1356	SMO / GLAFORCE	

ALS Group USA, Corp.
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Internal Chain of Custody Report

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

Service Request: R1909228

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1909228-002.08					
		9/24/2019	1356	SMO / GLAFORCE	
R1909228-002.09					
		9/24/2019	1356	SMO / GLAFORCE	
R1909228-003.01					
	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/26/2019	1351	In Lab / FNAEGLER	
		9/26/2019	1438	R-001-S08 / FNAEGLER	
R1909228-003.02					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-003.03					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-004.01					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/25/2019	1240	In Lab / FNAEGLER	
		9/25/2019	1441	R-001-S08 / FNAEGLER	
R1909228-004.02					
	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/29/2019	1046	In Lab / KRUEST	
		9/29/2019	1125	R-001-S12 / KRUEST	
R1909228-004.03					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-005.01					
	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/29/2019	1046	In Lab / KRUEST	

ALS Group USA, Corp.
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Internal Chain of Custody Report

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

Service Request: R1909228

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1909228-005.02	8260C	9/29/2019	1125	R-001-S12 / KRUEST	
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-005.03		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-006.01	8260C	9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/29/2019	1046	In Lab / KRUEST	
		9/29/2019	1125	R-001-S12 / KRUEST	
R1909228-006.02		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-006.03		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-007.01		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/29/2019	1046	In Lab / KRUEST	
		9/29/2019	1125	R-001-S12 / KRUEST	
R1909228-007.02	8260C	9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		10/1/2019	1208	In Lab / KRUEST	
		10/1/2019	1248	R-001-S12 / KRUEST	
R1909228-007.03		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	

ALS Group USA, Corp.
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Internal Chain of Custody Report

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

Service Request: R1909228

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1909228-008.01	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/29/2019	1046	In Lab / KRUEST	
		9/29/2019	1125	R-001-S12 / KRUEST	
R1909228-008.02					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-008.03					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-009.01	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/25/2019	1240	In Lab / FNAEGLER	
		9/25/2019	1441	R-001-S08 / FNAEGLER	
R1909228-009.02					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-009.03					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-010.01	8260C				
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/25/2019	1240	In Lab / FNAEGLER	
		9/25/2019	1441	R-001-S08 / FNAEGLER	
R1909228-010.02					
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-010.03					
		9/24/2019	1349	SMO / GLAFORCE	

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Internal Chain of Custody Report

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

Service Request: R1909228

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1909228-011.01	8260C	9/24/2019	1349	R-001 / GLAFORCE	
		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
		9/26/2019	1351	In Lab / FNAEGLER	
		9/26/2019	1438	R-001-S08 / FNAEGLER	
R1909228-011.02		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	
R1909228-011.03		9/24/2019	1349	SMO / GLAFORCE	
		9/24/2019	1349	R-001 / GLAFORCE	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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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.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	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 Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

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

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

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

Service Request: R1909228

Sample Name: TB 092319
Lab Code: R1909228-001
Sample Matrix: Water

Date Collected: 09/23/19**Date Received:** 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-17 092319
Lab Code: R1909228-002
Sample Matrix: Water

Date Collected: 09/23/19**Date Received:** 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-11 092319
Lab Code: R1909228-003
Sample Matrix: Water

Date Collected: 09/23/19**Date Received:** 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-13 092319
Lab Code: R1909228-004
Sample Matrix: Water

Date Collected: 09/23/19**Date Received:** 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-10 092319
Lab Code: R1909228-005
Sample Matrix: Water

Date Collected: 09/23/19**Date Received:** 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

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

Service Request: R1909228

Sample Name: FB 092319
Lab Code: R1909228-006
Sample Matrix: Water

Date Collected: 09/23/19
Date Received: 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-9 092319
Lab Code: R1909228-007
Sample Matrix: Water

Date Collected: 09/23/19
Date Received: 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: DMW-3 092319
Lab Code: R1909228-008
Sample Matrix: Water

Date Collected: 09/23/19
Date Received: 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-8 092319
Lab Code: R1909228-009
Sample Matrix: Water

Date Collected: 09/23/19
Date Received: 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-16 092319
Lab Code: R1909228-010
Sample Matrix: Water

Date Collected: 09/23/19
Date Received: 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

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

Service Request: R1909228

Sample Name: DUP 092319
Lab Code: R1909228-011
Sample Matrix: Water

Date Collected: 09/23/19
Date Received: 09/24/19

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

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



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19
Date Received: 09/24/19 09:25

Sample Name: TB 092319
Lab Code: R1909228-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 15:48	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 15:48	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 15:48	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 15:48	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 15:48	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 15:48	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 15:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 15:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/29/19 15:48	
Dibromofluoromethane	95	89 - 119	09/29/19 15:48	
Toluene-d8	99	87 - 121	09/29/19 15:48	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 15:25
Date Received: 09/24/19 09:25

Sample Name: MW-13 092319
Lab Code: R1909228-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 16:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 16:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 16:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 16:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 16:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 16:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 16:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 16:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/29/19 16:31	
Dibromofluoromethane	91	89 - 119	09/29/19 16:31	
Toluene-d8	100	87 - 121	09/29/19 16:31	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 16:05
Date Received: 09/24/19 09:25

Sample Name: MW-10 092319
Lab Code: R1909228-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.1	1.0	0.21	1	09/29/19 16:53	
1,1-Dichloroethane (1,1-DCA)	0.76 J	1.0	0.20	1	09/29/19 16:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 16:53	
Tetrachloroethene (PCE)	1.1	1.0	0.21	1	09/29/19 16:53	
Trichloroethene (TCE)	17	1.0	0.20	1	09/29/19 16:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 16:53	
cis-1,2-Dichloroethene	2.8	1.0	0.23	1	09/29/19 16:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 16:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/29/19 16:53	
Dibromofluoromethane	93	89 - 119	09/29/19 16:53	
Toluene-d8	98	87 - 121	09/29/19 16:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 16:30
Date Received: 09/24/19 09:25

Sample Name: FB 092319
Lab Code: R1909228-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 16:09	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 16:09	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 16:09	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 16:09	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 16:09	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 16:09	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 16:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 16:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/29/19 16:09	
Dibromofluoromethane	92	89 - 119	09/29/19 16:09	
Toluene-d8	98	87 - 121	09/29/19 16:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 15:55
Date Received: 09/24/19 09:25

Sample Name: MW-9 092319
Lab Code: R1909228-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.49 J	1.0	0.21	1	10/01/19 15:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/01/19 15:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	10/01/19 15:27	
Tetrachloroethene (PCE)	0.29 J	1.0	0.21	1	10/01/19 15:27	
Trichloroethene (TCE)	21	1.0	0.20	1	10/01/19 15:27	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/01/19 15:27	
cis-1,2-Dichloroethene	0.32 J	1.0	0.23	1	10/01/19 15:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/01/19 15:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	10/01/19 15:27	
Dibromofluoromethane	97	89 - 119	10/01/19 15:27	
Toluene-d8	98	87 - 121	10/01/19 15:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 17:10
Date Received: 09/24/19 09:25

Sample Name: DMW-3 092319
Lab Code: R1909228-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 17:15	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 17:15	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 17:15	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 17:15	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 17:15	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 17:15	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 17:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 17:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/29/19 17:15	
Dibromofluoromethane	91	89 - 119	09/29/19 17:15	
Toluene-d8	97	87 - 121	09/29/19 17:15	

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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 14:50
Date Received: 09/24/19 09:25

Sample Name: MW-17 092319
Lab Code: R1909228-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.1	1.0	0.21	1	09/25/19 15:31	
1,1-Dichloroethane (1,1-DCA)	31	1.0	0.20	1	09/25/19 15:31	
1,1-Dichloroethene (1,1-DCE)	2.6	1.0	0.25	1	09/25/19 15:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/25/19 15:31	
Trichloroethene (TCE)	32	1.0	0.20	1	09/25/19 15:31	
Vinyl Chloride	0.25 J	1.0	0.20	1	09/25/19 15:31	
cis-1,2-Dichloroethene	66	1.0	0.23	1	09/25/19 15:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 15:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/25/19 15:31	
Dibromofluoromethane	97	89 - 119	09/25/19 15:31	
Toluene-d8	99	87 - 121	09/25/19 15:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 15:25
Date Received: 09/24/19 09:25

Sample Name: MW-11 092319
Lab Code: R1909228-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	09/26/19 16:18	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	09/26/19 16:18	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	09/26/19 16:18	
Tetrachloroethene (PCE)	10 U	10	2.1	10	09/26/19 16:18	
Trichloroethene (TCE)	10 U	10	2.0	10	09/26/19 16:18	
Vinyl Chloride	10 U	10	2.0	10	09/26/19 16:18	
cis-1,2-Dichloroethene	10 U	10	2.3	10	09/26/19 16:18	
trans-1,2-Dichloroethene	10 U	10	2.0	10	09/26/19 16:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/26/19 16:18	
Dibromofluoromethane	98	89 - 119	09/26/19 16:18	
Toluene-d8	101	87 - 121	09/26/19 16:18	

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dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 17:15
Date Received: 09/24/19 09:25

Sample Name: MW-8 092319
Lab Code: R1909228-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.7	1.0	0.21	1	09/25/19 16:16	
1,1-Dichloroethane (1,1-DCA)	3.2	1.0	0.20	1	09/25/19 16:16	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/25/19 16:16	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/25/19 16:16	
Trichloroethene (TCE)	13	1.0	0.20	1	09/25/19 16:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/25/19 16:16	
cis-1,2-Dichloroethene	4.1	1.0	0.23	1	09/25/19 16:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 16:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/25/19 16:16	
Dibromofluoromethane	100	89 - 119	09/25/19 16:16	
Toluene-d8	101	87 - 121	09/25/19 16:16	

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dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 17:21
Date Received: 09/24/19 09:25

Sample Name: MW-16 092319
Lab Code: R1909228-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	7.7	1.0	0.21	1	09/25/19 16:38	
1,1-Dichloroethane (1,1-DCA)	23	1.0	0.20	1	09/25/19 16:38	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/25/19 16:38	
Tetrachloroethene (PCE)	0.27 J	1.0	0.21	1	09/25/19 16:38	
Trichloroethene (TCE)	6.6	1.0	0.20	1	09/25/19 16:38	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/25/19 16:38	
cis-1,2-Dichloroethene	32	1.0	0.23	1	09/25/19 16:38	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 16:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/25/19 16:38	
Dibromofluoromethane	97	89 - 119	09/25/19 16:38	
Toluene-d8	99	87 - 121	09/25/19 16:38	

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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19
Date Received: 09/24/19 09:25

Sample Name: DUP 092319
Lab Code: R1909228-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	7.6	1.0	0.21	1	09/26/19 16:40	
1,1-Dichloroethane (1,1-DCA)	23	1.0	0.20	1	09/26/19 16:40	
1,1-Dichloroethene (1,1-DCE)	0.28 J	1.0	0.25	1	09/26/19 16:40	
Tetrachloroethene (PCE)	0.27 J	1.0	0.21	1	09/26/19 16:40	
Trichloroethene (TCE)	7.1	1.0	0.20	1	09/26/19 16:40	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/26/19 16:40	
cis-1,2-Dichloroethene	35	1.0	0.23	1	09/26/19 16:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/26/19 16:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/26/19 16:40	
Dibromofluoromethane	99	89 - 119	09/26/19 16:40	
Toluene-d8	100	87 - 121	09/26/19 16:40	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

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

Service Request: R1909228

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
TB 092319	R1909228-001	95	95	99
MW-13 092319	R1909228-004	93	91	100
MW-10 092319	R1909228-005	94	93	98
FB 092319	R1909228-006	94	92	98
MW-9 092319	R1909228-007	94	97	98
DMW-3 092319	R1909228-008	92	91	97
Method Blank	RQ1911076-04	93	93	99
Method Blank	RQ1911182-04	95	94	98
Lab Control Sample	RQ1911076-03	96	101	102
Lab Control Sample	RQ1911182-03	98	97	99

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19 11:27
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1911076-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUDATA\msvoa12\Data\092919\P30423.D\
Analysis Lot: 653377

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1911076-03	I:\ACQUDATA\msvoa12\Data\092919\P30420.D\	09/29/19 10:18
TB 092319	R1909228-001	I:\ACQUDATA\msvoa12\Data\092919\P30435.D\	09/29/19 15:48
FB 092319	R1909228-006	I:\ACQUDATA\msvoa12\Data\092919\P30436.D\	09/29/19 16:09
MW-13 092319	R1909228-004	I:\ACQUDATA\msvoa12\Data\092919\P30437.D\	09/29/19 16:31
MW-10 092319	R1909228-005	I:\ACQUDATA\msvoa12\Data\092919\P30438.D\	09/29/19 16:53
DMW-3 092319	R1909228-008	I:\ACQUDATA\msvoa12\Data\092919\P30439.D\	09/29/19 17:15

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 10/01/19 12:24
Date Extracted:

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1911182-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUDATA\msvoa12\Data\100119\P30515.D\
Analysis Lot: 653627

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1911182-03	I:\ACQUDATA\msvoa12\Data\100119\P30512.D\	10/01/19 11:13
MW-9 092319	R1909228-007	I:\ACQUDATA\msvoa12\Data\100119\P30523.D\	10/01/19 15:27

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1911076-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 11:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 11:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 11:27	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 11:27	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 11:27	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 11:27	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 11:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 11:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/29/19 11:27	
Dibromofluoromethane	93	89 - 119	09/29/19 11:27	
Toluene-d8	99	87 - 121	09/29/19 11:27	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1909228
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1911182-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	10/01/19 12:24	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/01/19 12:24	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	10/01/19 12:24	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	10/01/19 12:24	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	10/01/19 12:24	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/01/19 12:24	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/01/19 12:24	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/01/19 12:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	10/01/19 12:24	
Dibromofluoromethane	94	89 - 119	10/01/19 12:24	
Toluene-d8	98	87 - 121	10/01/19 12:24	

ALS Group USA, Corp.

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19 10:18
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ1911076-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUDATA\msvoa12\Data\092919\P30420.D\
Analysis Lot: 653377

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1911076-04	I:\ACQUDATA\msvoa12\Data\092919\P30423.D\	09/29/19 11:27
TB 092319	R1909228-001	I:\ACQUDATA\msvoa12\Data\092919\P30435.D\	09/29/19 15:48
FB 092319	R1909228-006	I:\ACQUDATA\msvoa12\Data\092919\P30436.D\	09/29/19 16:09
MW-13 092319	R1909228-004	I:\ACQUDATA\msvoa12\Data\092919\P30437.D\	09/29/19 16:31
MW-10 092319	R1909228-005	I:\ACQUDATA\msvoa12\Data\092919\P30438.D\	09/29/19 16:53
DMW-3 092319	R1909228-008	I:\ACQUDATA\msvoa12\Data\092919\P30439.D\	09/29/19 17:15

ALS Group USA, Corp.

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 10/01/19 11:13
Date Extracted:

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: RQ1911182-03
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-12
File ID: I:\ACQUDATA\msvoa12\Data\100119\P30512.D\
Analysis Lot: 653627

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1911182-04	I:\ACQUDATA\msvoa12\Data\100119\P30515.D\	10/01/19 12:24
MW-9 092319	R1909228-007	I:\ACQUDATA\msvoa12\Data\100119\P30523.D\	10/01/19 15:27

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1911076-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.7	20.0	88	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	17.8	20.0	89	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.3	20.0	92	71-118
Tetrachloroethene (PCE)	8260C	18.0	20.0	90	72-125
Trichloroethene (TCE)	8260C	18.7	20.0	93	74-122
Vinyl Chloride	8260C	17.7	20.0	89	74-159
cis-1,2-Dichloroethene	8260C	18.2	20.0	91	80-121
trans-1,2-Dichloroethene	8260C	18.3	20.0	91	73-118

ALS Group USA, Corp.
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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 10/01/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1911182-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.6	20.0	93	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	18.1	20.0	91	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.6	20.0	93	71-118
Tetrachloroethene (PCE)	8260C	19.7	20.0	99	72-125
Trichloroethene (TCE)	8260C	19.5	20.0	98	74-122
Vinyl Chloride	8260C	18.3	20.0	92	74-159
cis-1,2-Dichloroethene	8260C	18.8	20.0	94	80-121
trans-1,2-Dichloroethene	8260C	18.6	20.0	93	73-118

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19 09:20

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\092919\P30418.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 653377

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.96	35147	Pass
75	95	30	60	48.71	85771	Pass
95	95	100	100	100.00	176085	Pass
96	95	5	9	6.02	10608	Pass
173	174	0	2	0.86	1158	Pass
174	95	50	120	76.51	134723	Pass
175	174	5	9	7.61	10252	Pass
176	174	95	101	95.20	128261	Pass
177	176	5	9	6.62	8485	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1911076-02	I:\ACQUDATA\msvoa12\Data\092919\P30419.D\	09/29/19 09:50	
Lab Control Sample	RQ1911076-03	I:\ACQUDATA\msvoa12\Data\092919\P30420.D\	09/29/19 10:18	
Method Blank	RQ1911076-04	I:\ACQUDATA\msvoa12\Data\092919\P30423.D\	09/29/19 11:27	
TB 092319	R1909228-001	I:\ACQUDATA\msvoa12\Data\092919\P30435.D\	09/29/19 15:48	
FB 092319	R1909228-006	I:\ACQUDATA\msvoa12\Data\092919\P30436.D\	09/29/19 16:09	
MW-13 092319	R1909228-004	I:\ACQUDATA\msvoa12\Data\092919\P30437.D\	09/29/19 16:31	
MW-10 092319	R1909228-005	I:\ACQUDATA\msvoa12\Data\092919\P30438.D\	09/29/19 16:53	
DMW-3 092319	R1909228-008	I:\ACQUDATA\msvoa12\Data\092919\P30439.D\	09/29/19 17:15	

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QC/QC Report

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

Service Request: R1909228
Date Analyzed: 10/01/19 10:15

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\100119\P30510.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 653627

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.80	32680	Pass
75	95	30	60	48.86	80653	Pass
95	95	100	100	100.00	165077	Pass
96	95	5	9	6.54	10791	Pass
173	174	0	2	0.82	1013	Pass
174	95	50	120	74.57	123093	Pass
175	174	5	9	7.67	9442	Pass
176	174	95	101	95.26	117261	Pass
177	176	5	9	6.30	7382	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1911182-02	I:\ACQUDATA\msvoa12\Data\100119\P30511.D\	10/01/19 10:44	
Lab Control Sample	RQ1911182-03	I:\ACQUDATA\msvoa12\Data\100119\P30512.D\	10/01/19 11:13	
Method Blank	RQ1911182-04	I:\ACQUDATA\msvoa12\Data\100119\P30515.D\	10/01/19 12:24	
MW-9 092319	R1909228-007	I:\ACQUDATA\msvoa12\Data\100119\P30523.D\	10/01/19 15:27	

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19 09:50

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

File ID: I:\ACQUDATA\msvoa12\Data\092919\P30419.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code: RQ1911076-02
Analysis Lot: 653377
Signal ID: 1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	278,718	11.84	558,381	6.52	502,256	9.80
Upper Limit ==>	557,436	12.34	1,116,762	7.02	1,004,512	10.30
Lower Limit ==>	139,359	11.34	279,191	6.02	251,128	9.30

Associated Analyses

Lab Control Sample	RQ1911076-03	274962	11.84	569796	6.52	518294	9.80
Method Blank	RQ1911076-04	252097	11.84	543926	6.53	479529	9.80
TB 092319	R1909228-001	242011	11.84	533072	6.52	472536	9.80
FB 092319	R1909228-006	243085	11.84	535247	6.52	473659	9.80
MW-13 092319	R1909228-004	242651	11.84	528698	6.53	458952	9.80
MW-10 092319	R1909228-005	238403	11.84	528631	6.53	464082	9.80
DMW-3 092319	R1909228-008	245221	11.84	535745	6.52	468479	9.80

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19 09:50

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

File ID: I:\ACQUDATA\msvoa12\Data\092919\P30419.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code: RQ1911076-02
Analysis Lot: 653377
Signal ID: 1

	Pentafluorobenzene	
	Area	RT
Result ==>	350,069	5.45
Upper Limit ==>	700,138	5.95
Lower Limit ==>	175,035	4.95

Associated Analyses

Lab Control Sample	RQ1911076-03	353511	5.44
Method Blank	RQ1911076-04	334673	5.46
TB 092319	R1909228-001	325860	5.45
FB 092319	R1909228-006	326690	5.44
MW-13 092319	R1909228-004	329007	5.46
MW-10 092319	R1909228-005	326900	5.45
DMW-3 092319	R1909228-008	340098	5.45

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QA/QC Report

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

Service Request:R1909228
Date Analyzed:10/01/19 10:44

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

File ID: I:\ACQUDATA\msvoa12\Data\100119\P30511.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ1911182-02
Analysis Lot:653627
Signal ID:1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	255,930	11.84	533,366	6.52	480,466	9.80
Upper Limit ==>	511,860	12.34	1,066,732	7.02	960,932	10.30
Lower Limit ==>	127,965	11.34	266,683	6.02	240,233	9.30

Associated Analyses

Lab Control Sample	RQ1911182-03	243926	11.84	509214	6.53	463375	9.80
Method Blank	RQ1911182-04	231510	11.84	508142	6.53	446639	9.80
MW-9 092319	R1909228-007	227137	11.84	491307	6.53	430954	9.80

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QA/QC Report

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

Service Request:R1909228
Date Analyzed:10/01/19 10:44

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

File ID: I:\ACQUDATA\msvoa12\Data\100119\P30511.D\
Instrument ID: R-MS-12
Analysis Method: 8260C

Lab Code:RQ1911182-02
Analysis Lot:653627
Signal ID:1

	Pentafluorobenzene	
	Area	RT
Result ==>	332,773	5.45
Upper Limit ==>	665,546	5.95
Lower Limit ==>	166,387	4.95

Associated Analyses

Lab Control Sample	RQ1911182-03	323172	5.46
Method Blank	RQ1911182-04	319027	5.45
MW-9 092319	R1909228-007	306868	5.44

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QA/QC Report

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

Service Request: R1909228

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

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
MW-11 092319	R1909228-003	95	98	101
DUP 092319	R1909228-011	94	99	100
Method Blank	RQ1911135-04	96	98	101
Lab Control Sample	RQ1911135-03	95	102	100
MW-17 092319	R1909228-002	97	97	99
MW-8 092319	R1909228-009	96	100	101
MW-16 092319	R1909228-010	96	97	99
Method Blank	RQ1910900-04	97	100	100
Lab Control Sample	RQ1910900-03	95	102	102
MW-17 092319 MS	RQ1910900-07	98	102	101
MW-17 092319 DMS	RQ1910900-08	95	104	102

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QA/QC Report

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

Service Request: R1909228
Date Collected: 09/23/19
Date Received: 09/24/19
Date Analyzed: 09/25/19

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: MW-17 092319 **Units:** ug/L
Lab Code: R1909228-002 **Basis:** NA
Analysis Method: 8260C

Analyte Name	Sample Result	Matrix Spike RQ1910900-07			Duplicate Matrix Spike RQ1910900-08				RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,1,1-Trichloroethane (TCA)	5.1	56.2	50.0	102	45.1	50.0	80	74-127	22	30
1,1-Dichloroethane (1,1-DCA)	31	83.3	50.0	106	71.1	50.0	81	74-132	16	30
1,1-Dichloroethene (1,1-DCE)	2.6	51.6	50.0	98	38.7	50.0	72	71-118	29	30
Tetrachloroethene (PCE)	1.0 U	45.5	50.0	91	38.3	50.0	77	72-125	17	30
Trichloroethene (TCE)	32	74.5	50.0	86	64.9	50.0	67 *	74-122	14	30
Vinyl Chloride	0.25 J	52.5	50.0	105	40.0	50.0	79	74-159	27	30
cis-1,2-Dichloroethene	66	116	50.0	99	103	50.0	74 *	77-127	11	30
trans-1,2-Dichloroethene	1.0 U	48.8	50.0	98	38.5	50.0	77	73-118	24	30

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

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

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

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19 13:02

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

Sample Name: Method Blank
Lab Code: RQ1910900-04
Analysis Method: 8260C

Instrument ID: R-MS-14
File ID: I:\ACQUDATA\MSVOA14\Data\092519\N0224.D\
Analysis Lot: 652819

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1910900-03	I:\ACQUDATA\MSVOA14\Data\092519\N0222.D\	09/25/19 11:57
MW-17 092319	R1909228-002	I:\ACQUDATA\MSVOA14\Data\092519\N0230.D\	09/25/19 15:31
MW-8 092319	R1909228-009	I:\ACQUDATA\MSVOA14\Data\092519\N0232.D\	09/25/19 16:16
MW-16 092319	R1909228-010	I:\ACQUDATA\MSVOA14\Data\092519\N0233.D\	09/25/19 16:38
MW-17 092319MS	RQ1910900-07	I:\ACQUDATA\MSVOA14\Data\092519\N0245.D\	09/25/19 21:06
MW-17 092319DMS	RQ1910900-08	I:\ACQUDATA\MSVOA14\Data\092519\N0246.D\	09/25/19 21:28

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19 14:24
Date Extracted:

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

Sample Name: Method Blank
Lab Code: RQ1911135-04
Analysis Method: 8260C
Prep Method: EPA 5030C

Instrument ID: R-MS-14
File ID: I:\ACQUDATA\MSVOA14\Data\092619\N0287.D\
Analysis Lot: 653050

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1911135-03	I:\ACQUDATA\MSVOA14\Data\092619\N0285.D\	09/26/19 13:28
MW-11 092319	R1909228-003	I:\ACQUDATA\MSVOA14\Data\092619\N0292.D\	09/26/19 16:18
DUP 092319	R1909228-011	I:\ACQUDATA\MSVOA14\Data\092619\N0293.D\	09/26/19 16:40

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1909228
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1910900-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/25/19 13:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/25/19 13:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/25/19 13:02	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/25/19 13:02	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/25/19 13:02	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/25/19 13:02	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/25/19 13:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 13:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/25/19 13:02	
Dibromofluoromethane	100	89 - 119	09/25/19 13:02	
Toluene-d8	100	87 - 121	09/25/19 13:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1911135-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/26/19 14:24	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/26/19 14:24	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/26/19 14:24	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/26/19 14:24	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/26/19 14:24	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/26/19 14:24	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/26/19 14:24	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/26/19 14:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/26/19 14:24	
Dibromofluoromethane	98	89 - 119	09/26/19 14:24	
Toluene-d8	101	87 - 121	09/26/19 14:24	

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19 11:57

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

Sample Name: Lab Control Sample **Instrument ID:** R-MS-14
Lab Code: RQ1910900-03 **File ID:** I:\ACQUDATA\MSVOA14\Data\092519\N0222.D\
Analysis Method: 8260C **Analysis Lot:** 652819

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1910900-04	I:\ACQUDATA\MSVOA14\Data\092519\N0224.D\	09/25/19 13:02
MW-17 092319	R1909228-002	I:\ACQUDATA\MSVOA14\Data\092519\N0230.D\	09/25/19 15:31
MW-8 092319	R1909228-009	I:\ACQUDATA\MSVOA14\Data\092519\N0232.D\	09/25/19 16:16
MW-16 092319	R1909228-010	I:\ACQUDATA\MSVOA14\Data\092519\N0233.D\	09/25/19 16:38
MW-17 092319MS	RQ1910900-07	I:\ACQUDATA\MSVOA14\Data\092519\N0245.D\	09/25/19 21:06
MW-17 092319DMS	RQ1910900-08	I:\ACQUDATA\MSVOA14\Data\092519\N0246.D\	09/25/19 21:28

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19 13:28
Date Extracted:

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

Sample Name: Lab Control Sample **Instrument ID:** R-MS-14
Lab Code: RQ1911135-03 **File ID:** I:\ACQUDATA\MSVOA14\Data\092619\N0285.D\
Analysis Method: 8260C **Analysis Lot:** 653050
Prep Method: EPA 5030C

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1911135-04	I:\ACQUDATA\MSVOA14\Data\092619\N0287.D\	09/26/19 14:24
MW-11 092319	R1909228-003	I:\ACQUDATA\MSVOA14\Data\092619\N0292.D\	09/26/19 16:18
DUP 092319	R1909228-011	I:\ACQUDATA\MSVOA14\Data\092619\N0293.D\	09/26/19 16:40

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1910900-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.6	20.0	93	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	20.1	20.0	100	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.8	20.0	94	71-118
Tetrachloroethene (PCE)	8260C	17.8	20.0	89	72-125
Trichloroethene (TCE)	8260C	16.2	20.0	81	74-122
Vinyl Chloride	8260C	18.8	20.0	94	74-159
cis-1,2-Dichloroethene	8260C	19.7	20.0	99	80-121
trans-1,2-Dichloroethene	8260C	18.7	20.0	93	73-118

ALS Group USA, Corp.
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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19

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

Units:ug/L
Basis:NA

Lab Control Sample
RQ1911135-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	16.7	20.0	83	75-125
1,1-Dichloroethane (1,1-DCA)	8260C	18.6	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	16.4	20.0	82	71-118
Tetrachloroethene (PCE)	8260C	15.9	20.0	80	72-125
Trichloroethene (TCE)	8260C	15.1	20.0	75	74-122
Vinyl Chloride	8260C	16.5	20.0	83	74-159
cis-1,2-Dichloroethene	8260C	18.7	20.0	93	80-121
trans-1,2-Dichloroethene	8260C	17.3	20.0	86	73-118

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19 10:57

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\092519\N0220.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 652819

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.70	24986	Pass
75	95	30	60	49.73	63075	Pass
95	95	100	100	100.00	126827	Pass
96	95	5	9	6.87	8716	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	87.73	111259	Pass
175	174	5	9	7.78	8661	Pass
176	174	95	101	98.06	109099	Pass
177	176	5	9	6.70	7309	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1910900-02	I:\ACQUDATA\MSVOA14\Data\092519\N0221.D\	09/25/19 11:30	
Lab Control Sample	RQ1910900-03	I:\ACQUDATA\MSVOA14\Data\092519\N0222.D\	09/25/19 11:57	
Method Blank	RQ1910900-04	I:\ACQUDATA\MSVOA14\Data\092519\N0224.D\	09/25/19 13:02	
MW-17 092319	R1909228-002	I:\ACQUDATA\MSVOA14\Data\092519\N0230.D\	09/25/19 15:31	
MW-8 092319	R1909228-009	I:\ACQUDATA\MSVOA14\Data\092519\N0232.D\	09/25/19 16:16	
MW-16 092319	R1909228-010	I:\ACQUDATA\MSVOA14\Data\092519\N0233.D\	09/25/19 16:38	
MW-17 092319	RQ1910900-07	I:\ACQUDATA\MSVOA14\Data\092519\N0245.D\	09/25/19 21:06	
MW-17 092319	RQ1910900-08	I:\ACQUDATA\MSVOA14\Data\092519\N0246.D\	09/25/19 21:28	

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19 11:27

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\092619\N0282.D\
Instrument ID: R-MS-14

Analytical Method: 8260C
Analysis Lot: 653050

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.34	25265	Pass
75	95	30	60	48.05	62755	Pass
95	95	100	100	100.00	130603	Pass
96	95	5	9	6.78	8858	Pass
173	174	0	2	0.55	639	Pass
174	95	50	120	88.33	115360	Pass
175	174	5	9	7.60	8771	Pass
176	174	95	101	95.40	110048	Pass
177	176	5	9	6.37	7010	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1911135-02	I:\ACQUDATA\MSVOA14\Data\092619\N0284.D\	09/26/19 12:51	
Lab Control Sample	RQ1911135-03	I:\ACQUDATA\MSVOA14\Data\092619\N0285.D\	09/26/19 13:28	
Method Blank	RQ1911135-04	I:\ACQUDATA\MSVOA14\Data\092619\N0287.D\	09/26/19 14:24	
MW-11 092319	R1909228-003	I:\ACQUDATA\MSVOA14\Data\092619\N0292.D\	09/26/19 16:18	
DUP 092319	R1909228-011	I:\ACQUDATA\MSVOA14\Data\092619\N0293.D\	09/26/19 16:40	

ALS Group USA, Corp.
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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19 11:30

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

File ID: I:\ACQUDATA\MSVOA14\Data\092519\N0221.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1910900-02
Analysis Lot: 652819
Signal ID: 1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	194,458	11.73	457,217	5.93	390,658	9.58
Upper Limit ==>	388,916	12.23	914,434	6.43	781,316	10.08
Lower Limit ==>	97,229	11.23	228,609	5.43	195,329	9.08

Associated Analyses

Lab Control Sample	RQ1910900-03	201100	11.73	475422	5.94	406838	9.58
Method Blank	RQ1910900-04	188791	11.73	429305	5.94	370778	9.58
MW-17 092319	R1909228-002	186537	11.73	425871	5.94	367827	9.58
MW-8 092319	R1909228-009	191194	11.73	419872	5.94	367525	9.58
MW-16 092319	R1909228-010	187324	11.73	417248	5.94	365332	9.58
MW-17 092319MS	RQ1910900-07	188375	11.73	413989	5.94	362154	9.58
MW-17 092319DMS	RQ1910900-08	189121	11.74	427952	5.94	367605	9.58

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19 11:30

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

File ID: I:\ACQUDATA\MSVOA14\Data\092519\N0221.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1910900-02
Analysis Lot: 652819
Signal ID: 1

	Pentafluorobenzene	
	Area	RT
Result ==>	305,019	4.68
Upper Limit ==>	610,038	5.18
Lower Limit ==>	152,510	4.18

Associated Analyses

Lab Control Sample	RQ1910900-03	310847	4.68
Method Blank	RQ1910900-04	284201	4.68
MW-17 092319	R1909228-002	282249	4.69
MW-8 092319	R1909228-009	275444	4.69
MW-16 092319	R1909228-010	273891	4.69
MW-17 092319MS	RQ1910900-07	275010	4.69
MW-17 092319DMS	RQ1910900-08	285348	4.69

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19 12:51

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

File ID: I:\ACQUDATA\MSVOA14\Data\092619\N0284.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1911135-02
Analysis Lot: 653050
Signal ID: 1

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Result ==>	198,287	11.73	475,828	5.94	404,776	9.58
Upper Limit ==>	396,574	12.23	951,656	6.44	809,552	10.08
Lower Limit ==>	99,144	11.23	237,914	5.44	202,388	9.08

Associated Analyses

Lab Control Sample	RQ1911135-03	200588	11.73	463991	5.93	398132	9.58
Method Blank	RQ1911135-04	188963	11.73	435825	5.94	375827	9.58
MW-11 092319	R1909228-003	189776	11.73	445893	5.94	382531	9.58
DUP 092319	R1909228-011	189763	11.73	434807	5.94	371666	9.58

ALS Group USA, Corp.
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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19 12:51

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

File ID: I:\ACQUDATA\MSVOA14\Data\092619\N0284.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code: RQ1911135-02
Analysis Lot: 653050
Signal ID: 1

	Pentafluorobenzene	
	Area	RT
Result ==>	316,336	4.68
Upper Limit ==>	632,672	5.18
Lower Limit ==>	158,168	4.18

Associated Analyses

Lab Control Sample	RQ1911135-03	309050	4.68
Method Blank	RQ1911135-04	291197	4.69
MW-11 092319	R1909228-003	294902	4.69
DUP 092319	R1909228-011	286680	4.69



Raw Data

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19
Date Received: 09/24/19 09:25

Sample Name: TB 092319
Lab Code: R1909228-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 15:48	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 15:48	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 15:48	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 15:48	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 15:48	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 15:48	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 15:48	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 15:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/29/19 15:48	
Dibromofluoromethane	95	89 - 119	09/29/19 15:48	
Toluene-d8	99	87 - 121	09/29/19 15:48	

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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 15:25
Date Received: 09/24/19 09:25

Sample Name: MW-13 092319
Lab Code: R1909228-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 16:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 16:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 16:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 16:31	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 16:31	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 16:31	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 16:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 16:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/29/19 16:31	
Dibromofluoromethane	91	89 - 119	09/29/19 16:31	
Toluene-d8	100	87 - 121	09/29/19 16:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 16:05
Date Received: 09/24/19 09:25

Sample Name: MW-10 092319
Lab Code: R1909228-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.1	1.0	0.21	1	09/29/19 16:53	
1,1-Dichloroethane (1,1-DCA)	0.76 J	1.0	0.20	1	09/29/19 16:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 16:53	
Tetrachloroethene (PCE)	1.1	1.0	0.21	1	09/29/19 16:53	
Trichloroethene (TCE)	17	1.0	0.20	1	09/29/19 16:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 16:53	
cis-1,2-Dichloroethene	2.8	1.0	0.23	1	09/29/19 16:53	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 16:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/29/19 16:53	
Dibromofluoromethane	93	89 - 119	09/29/19 16:53	
Toluene-d8	98	87 - 121	09/29/19 16:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 16:30
Date Received: 09/24/19 09:25

Sample Name: FB 092319
Lab Code: R1909228-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 16:09	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 16:09	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 16:09	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 16:09	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 16:09	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 16:09	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 16:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 16:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/29/19 16:09	
Dibromofluoromethane	92	89 - 119	09/29/19 16:09	
Toluene-d8	98	87 - 121	09/29/19 16:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 15:55
Date Received: 09/24/19 09:25

Sample Name: MW-9 092319
Lab Code: R1909228-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.49 J	1.0	0.21	1	10/01/19 15:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/01/19 15:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	10/01/19 15:27	
Tetrachloroethene (PCE)	0.29 J	1.0	0.21	1	10/01/19 15:27	
Trichloroethene (TCE)	21	1.0	0.20	1	10/01/19 15:27	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/01/19 15:27	
cis-1,2-Dichloroethene	0.32 J	1.0	0.23	1	10/01/19 15:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/01/19 15:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	10/01/19 15:27	
Dibromofluoromethane	97	89 - 119	10/01/19 15:27	
Toluene-d8	98	87 - 121	10/01/19 15:27	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 17:10
Date Received: 09/24/19 09:25

Sample Name: DMW-3 092319
Lab Code: R1909228-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	09/29/19 17:15	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	09/29/19 17:15	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/29/19 17:15	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/29/19 17:15	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	09/29/19 17:15	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/29/19 17:15	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	09/29/19 17:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/29/19 17:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/29/19 17:15	
Dibromofluoromethane	91	89 - 119	09/29/19 17:15	
Toluene-d8	97	87 - 121	09/29/19 17:15	

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30435.D
 Acq On : 29 Sep 2019 3:48 pm
 Operator : K.Ruest
 Sample : R1909228-001|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 12:31:10 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

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

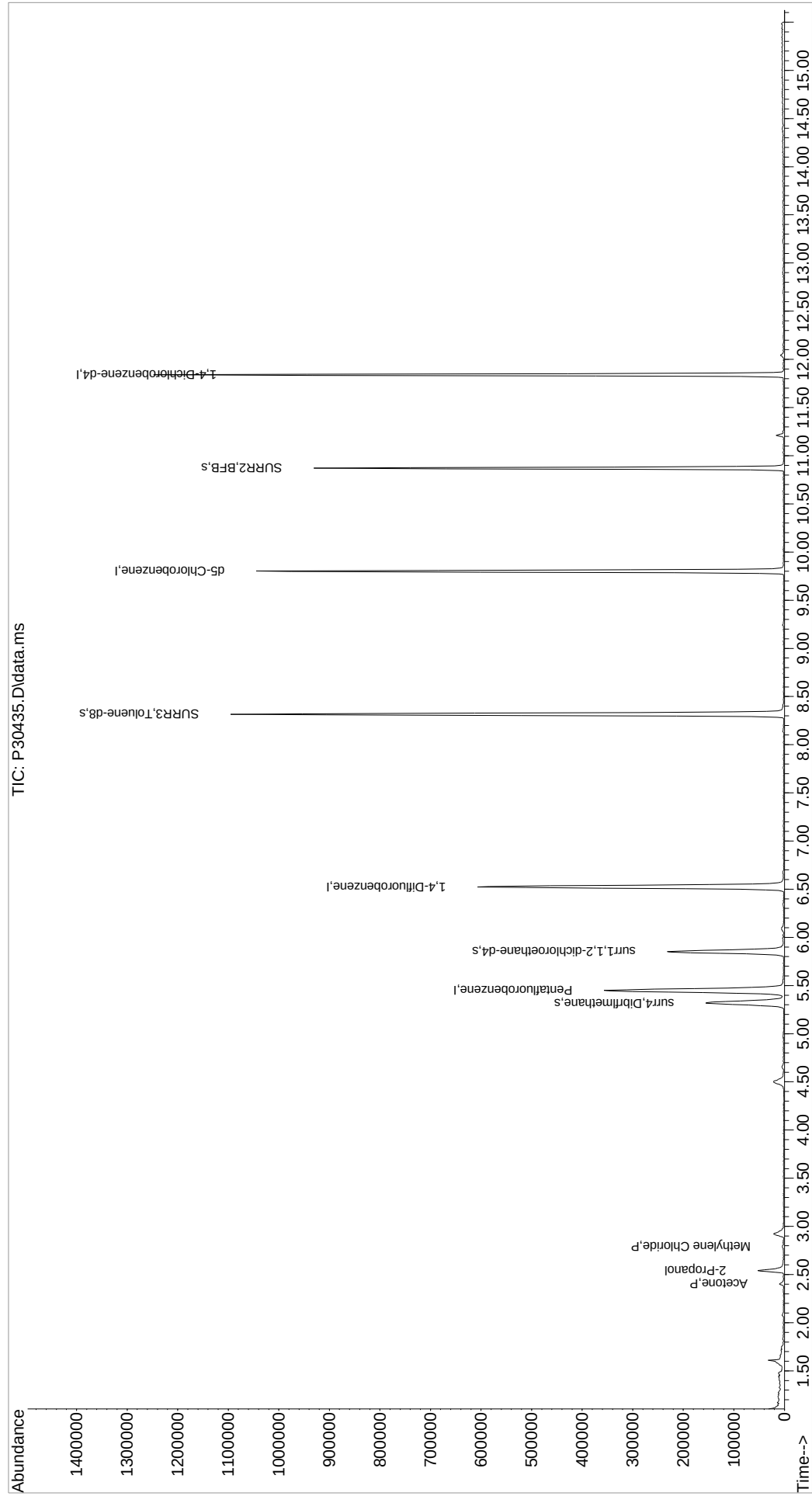
Internal Standards						
1) Pentafluorobenzene	5.450	168	325860	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	533072	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	472536	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	242011	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	133975	47.42	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	94.84%		
48) surr1,1,2-dichloroetha...	5.853	65	192138	49.15	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	98.30%		
65) SURR3,Toluene-d8	8.316	98	658448	49.51	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	99.02%		
70) SURR2,BFB	10.870	95	245545	47.45	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	94.90%		
Target Compounds						
15) Acetone	2.402	43	9130	3.44	ppb	Qvalue 89
16) 2-Propanol	2.542	45	62849	104.22	ppb	92
22) Methylene Chloride	2.786	84	981	0.24	ppb	# 74
39) Tetrahydrofuran	4.981	42	901	Below Cal	#	35

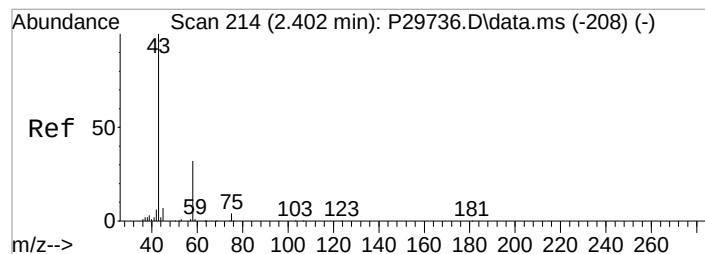
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\092919\
 Data File : P30435.D
 Acq On : 29 Sep 2019 3:48 pm
 Operator : K.Ruest
 Sample : R1909228-001|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 15 Sample Multiplier: 1

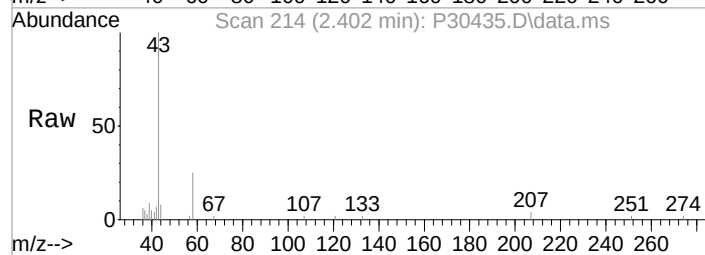
Inst : MSV0A-12

Quant Time: Oct 01 12:31:10 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

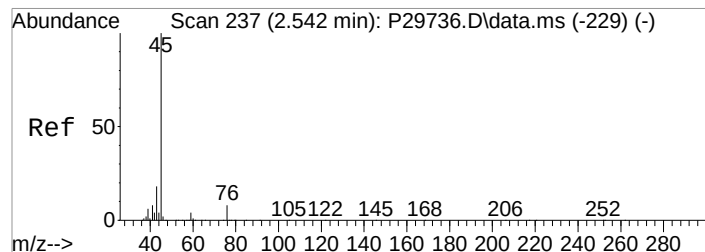
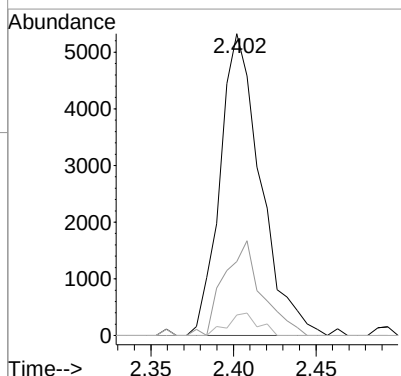
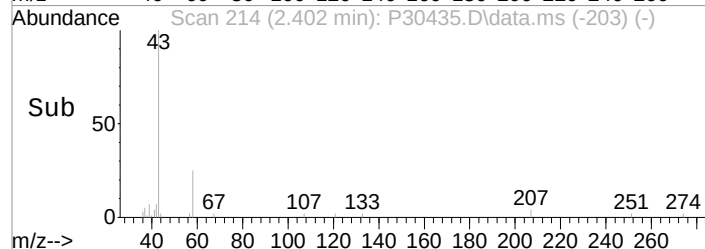




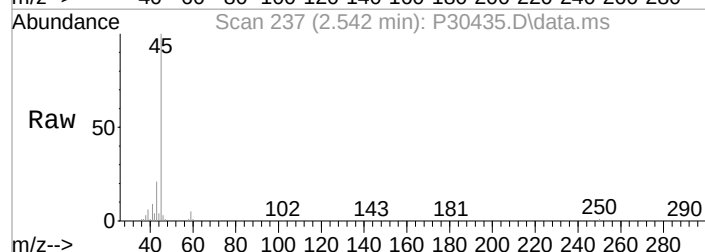
#15
 Acetone
 Concen: 3.44 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. -0.006 min
 Lab File: P30435.D
 Acq: 29 Sep 2019 3:48 pm



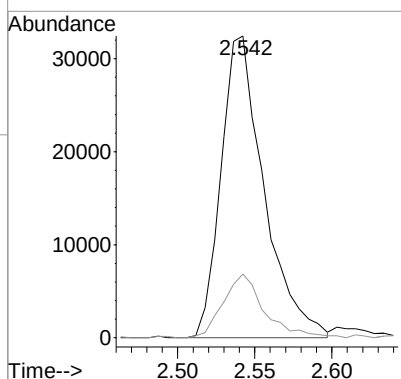
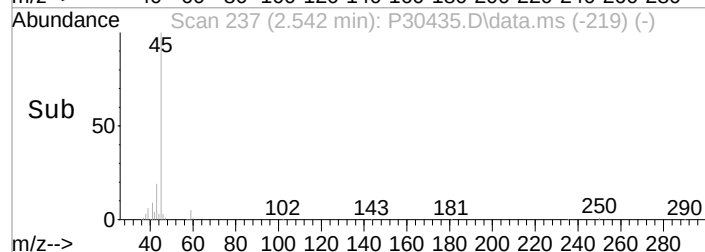
Tgt Ion: 43 Resp: 9130
 Ion Ratio Lower Upper
 43 100
 58 24.5 11.7 51.7
 42 6.8 0.0 26.5

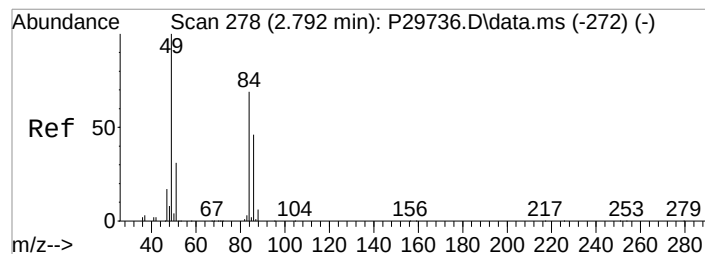


#16
 2-Propanol
 Concen: 104.22 ppb
 RT: 2.542 min Scan# 237
 Delta R.T. -0.000 min
 Lab File: P30435.D
 Acq: 29 Sep 2019 3:48 pm



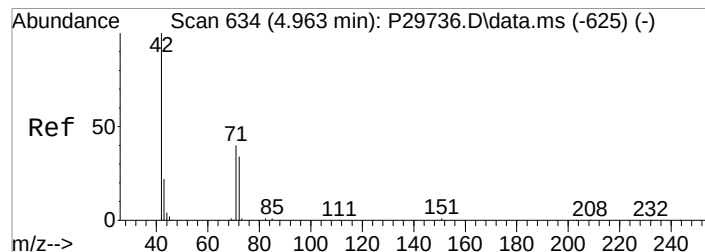
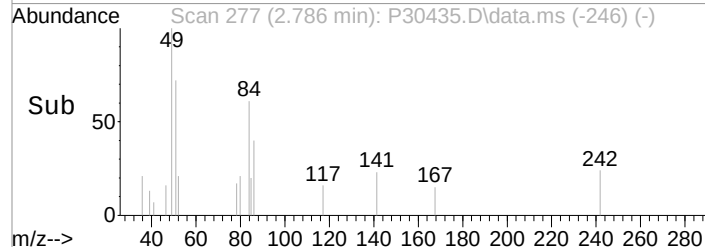
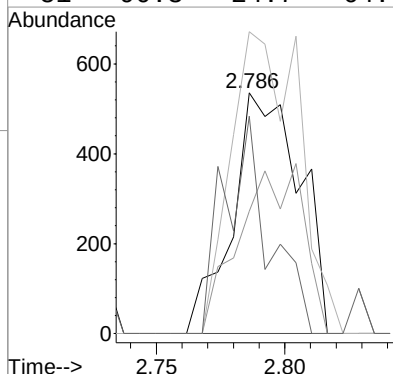
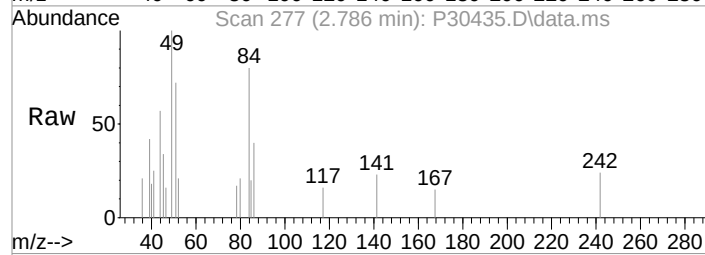
Tgt Ion: 45 Resp: 62849
 Ion Ratio Lower Upper
 45 100
 43 21.1 0.0 37.7





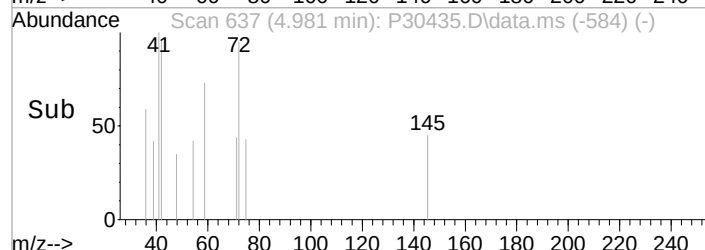
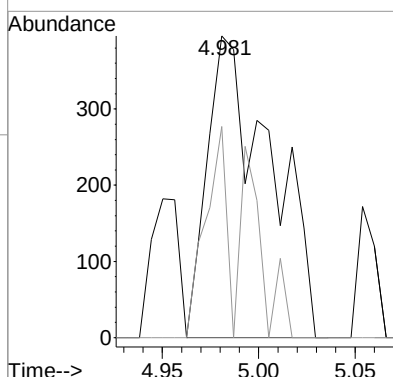
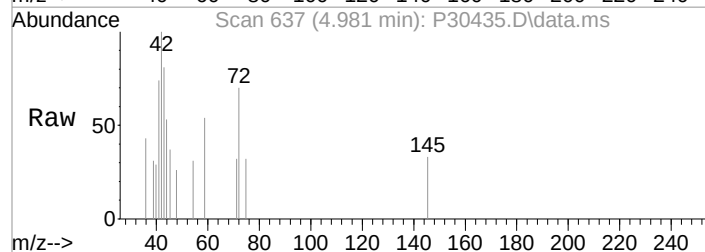
#22
 Methylene Chloride
 Concen: 0.24 ppb
 RT: 2.786 min Scan# 277
 Delta R.T. -0.012 min
 Lab File: P30435.D
 Acq: 29 Sep 2019 3:48 pm

Tgt Ion: 84	Resp: 981
Ion Ratio	Lower Upper
84 100	
86 50.7	46.1 86.1
49 125.4	124.9 164.9
51 90.3	24.7 64.7#



#39
 Tetrahydrofuran
 Concen: Below Cal
 RT: 4.981 min Scan# 637
 Delta R.T. 0.007 min
 Lab File: P30435.D
 Acq: 29 Sep 2019 3:48 pm

Tgt Ion: 42	Resp: 901
Ion Ratio	Lower Upper
42 100	
72 69.9	13.2 53.2#



Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30437.D
 Acq On : 29 Sep 2019 4:31 pm
 Operator : K.Ruest
 Sample : R1909228-004|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 14:11:26 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

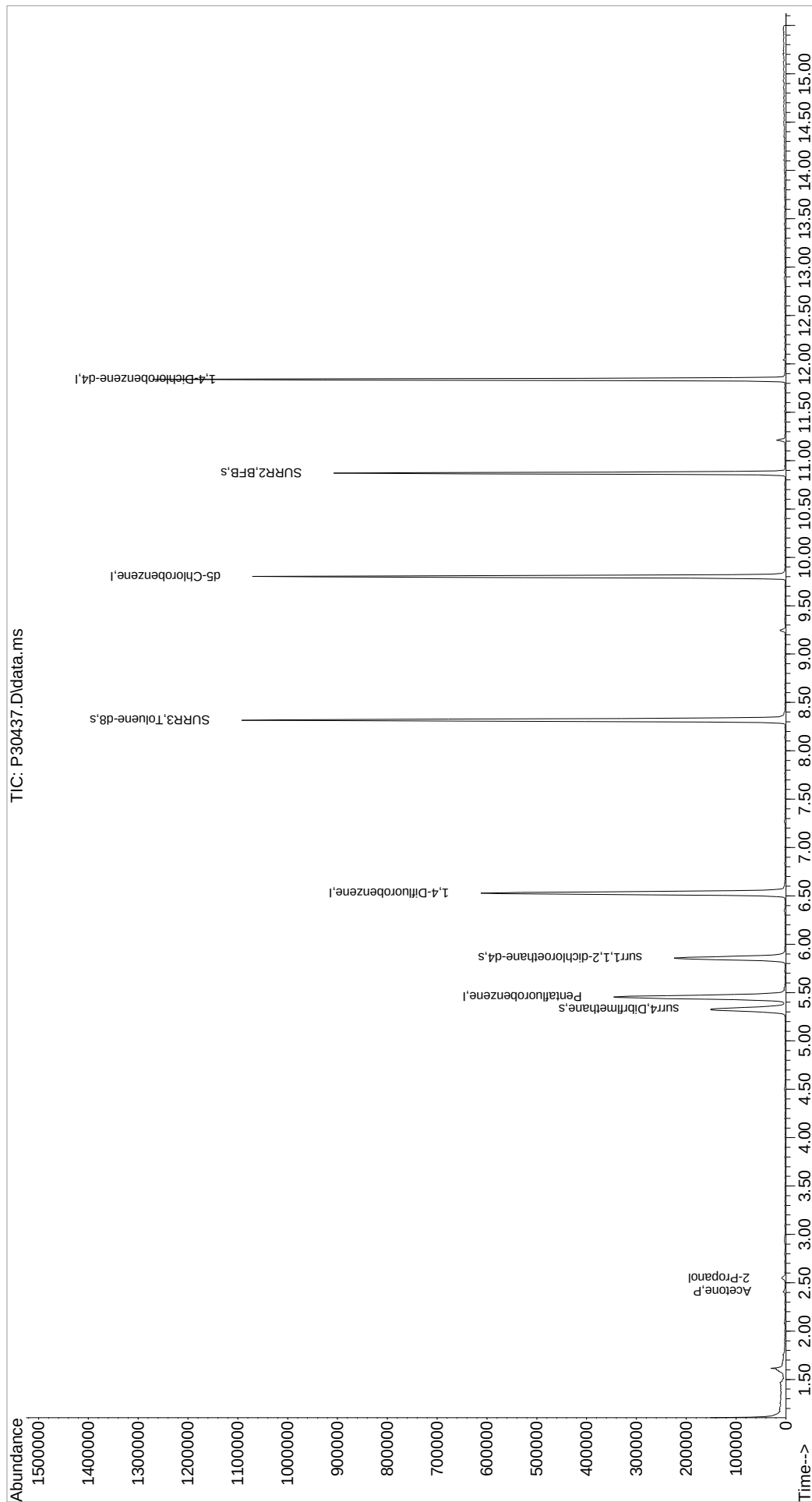
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

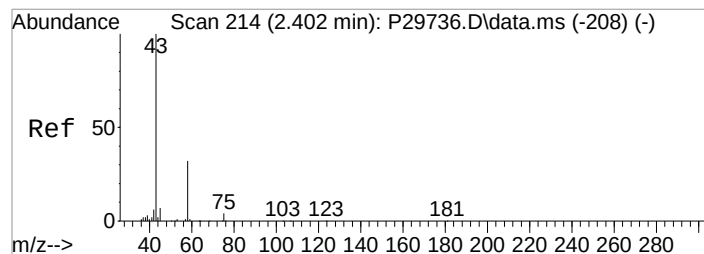
Internal Standards						
1) Pentafluorobenzene	5.456	168	329007	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	528698	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	458952	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	242651	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	127970	45.67	ppb	0.00
Spiked Amount 50.000	Range	89 - 119	Recovery	=	91.34%	
48) surr1,1,2-dichloroetha...	5.859	65	189007	48.75	ppb	0.00
Spiked Amount 50.000	Range	73 - 125	Recovery	=	97.50%	
65) SURR3,Toluene-d8	8.315	98	656709	49.78	ppb	0.00
Spiked Amount 50.000	Range	87 - 121	Recovery	=	99.56%	
70) SURR2,BFB	10.870	95	239521	46.67	ppb	0.00
Spiked Amount 50.000	Range	85 - 122	Recovery	=	93.34%	
Target Compounds						
15) Acetone	2.408	43	3454	1.29	ppb	Qvalue 94
16) 2-Propanol	2.548	45	8588	14.11	ppb	92

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

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30437.D
Acq On : 29 Sep 2019 4:31 pm
Operator : K.Ruest
Sample : R1909228-004|1.0
Misc : VERINA 8260 T4
ALS Vial : 17 Sample Multiplier: 1
Inst : MSV0A-12

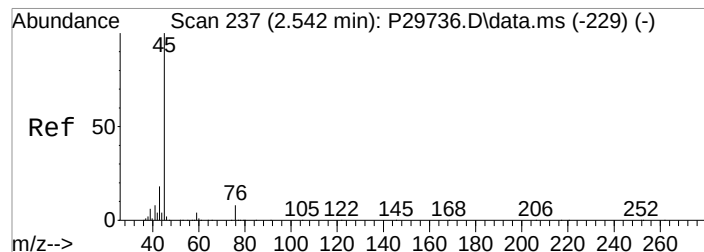
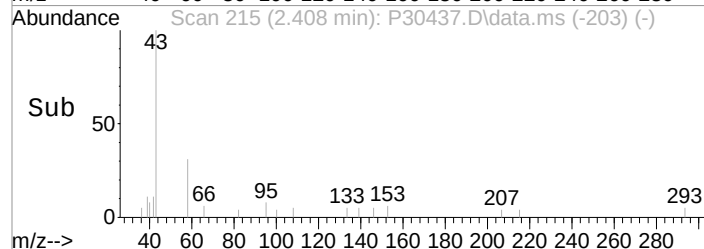
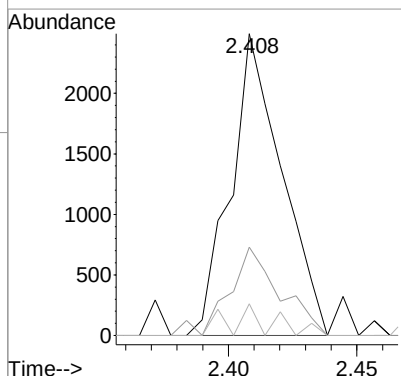
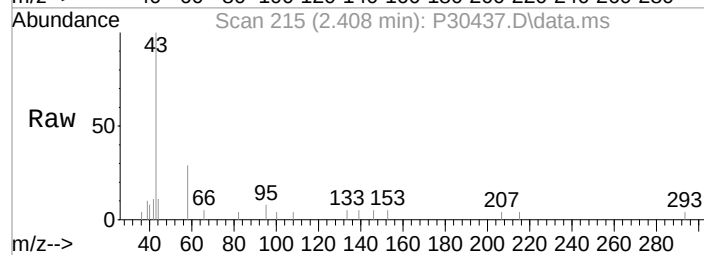
Quant Time: Oct 01 14:11:26 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration





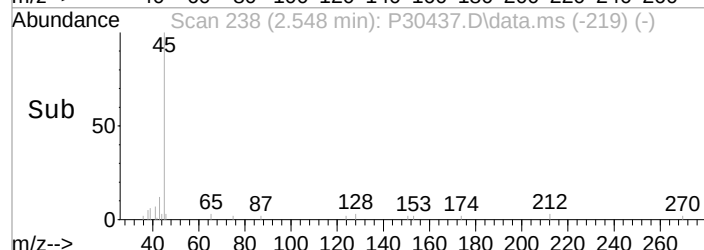
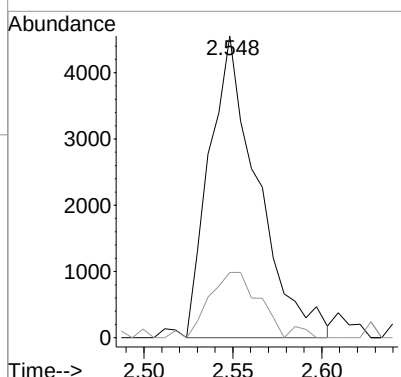
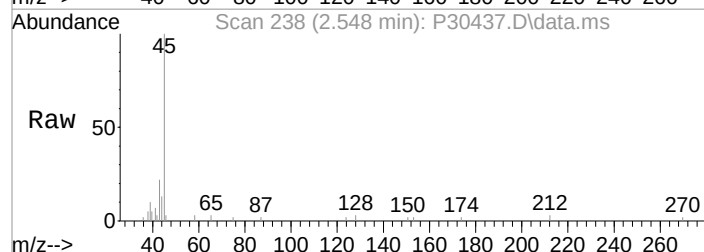
#15
 Acetone
 Concen: 1.29 ppb
 RT: 2.408 min Scan# 215
 Delta R.T. -0.000 min
 Lab File: P30437.D
 Acq: 29 Sep 2019 4:31 pm

Tgt Ion: 43 Resp: 3454
 Ion Ratio Lower Upper
 43 100
 58 29.3 11.7 51.7
 42 10.5 0.0 26.5



#16
 2-Propanol
 Concen: 14.11 ppb
 RT: 2.548 min Scan# 238
 Delta R.T. 0.006 min
 Lab File: P30437.D
 Acq: 29 Sep 2019 4:31 pm

Tgt Ion: 45 Resp: 8588
 Ion Ratio Lower Upper
 45 100
 43 21.0 0.0 37.7



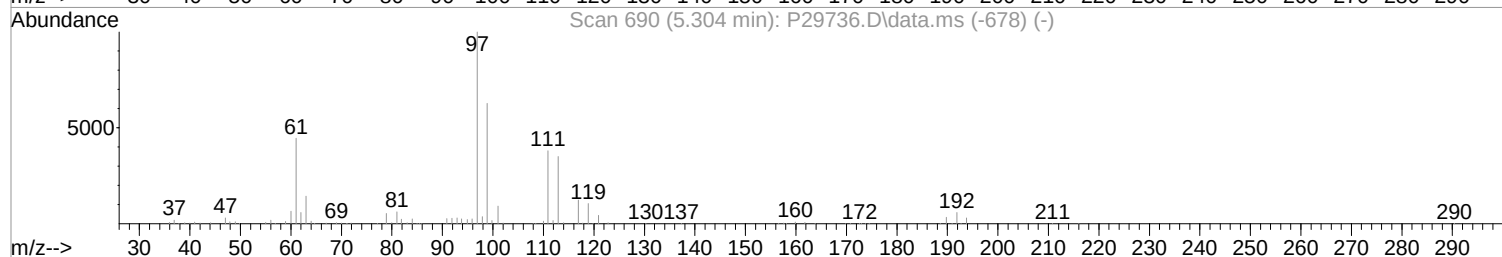
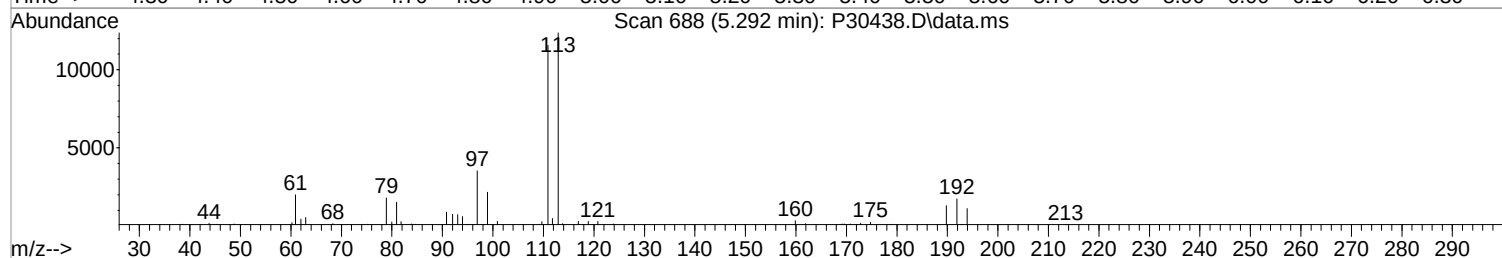
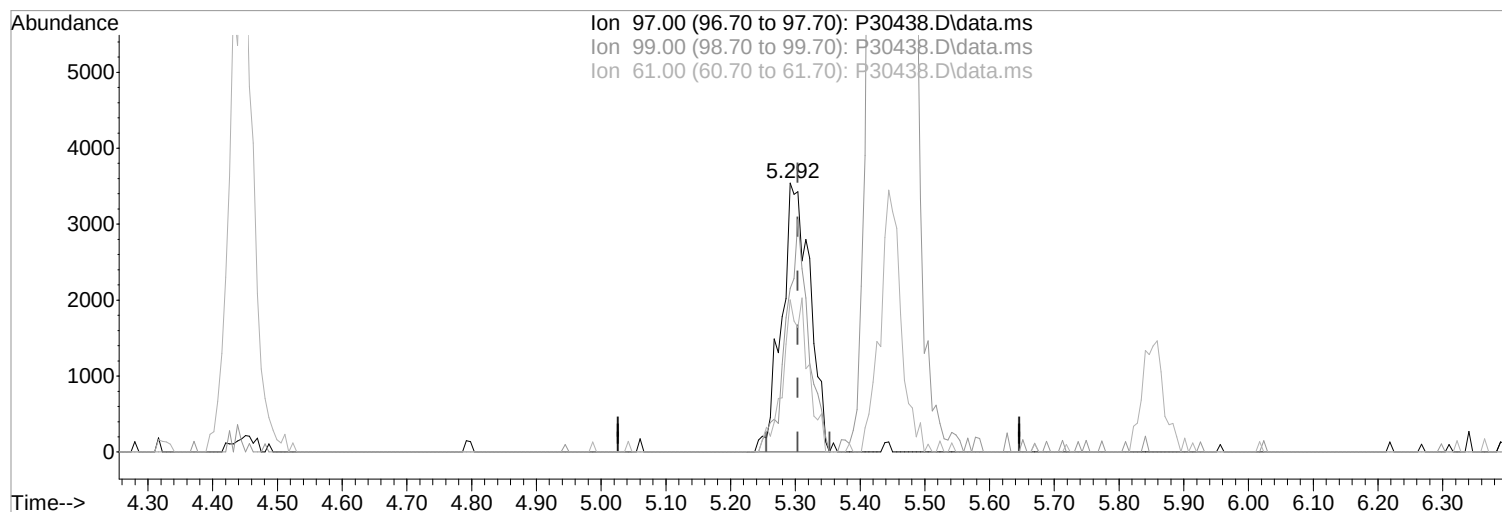
Quantitation Report (Qedit)

1st *FR* 10/01/19
2nd *FR* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30438.D
Acq On : 29 Sep 2019 4:53 pm
Operator : K.Ruest
Sample : R1909228-005|1.0
Misc : VERINA 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 30 09:08:15 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30438.D\data.ms

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

5.292min (-0.012) 2.12 ppb m

response 10724

Ion	Exp%	Act%
97.00	100	100
99.00	62.90	60.80
61.00	44.60	56.54
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

10/01/19

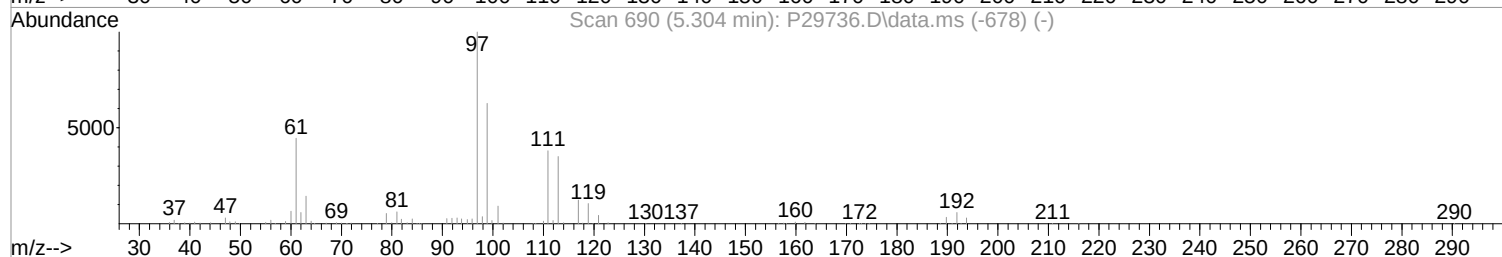
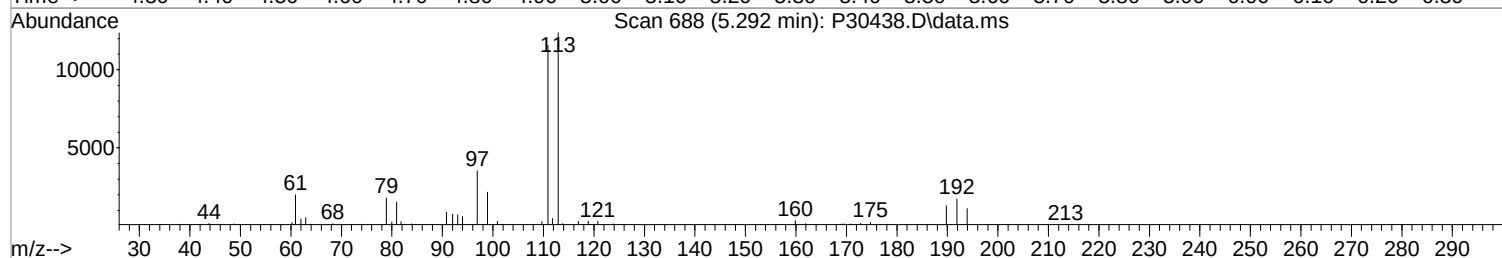
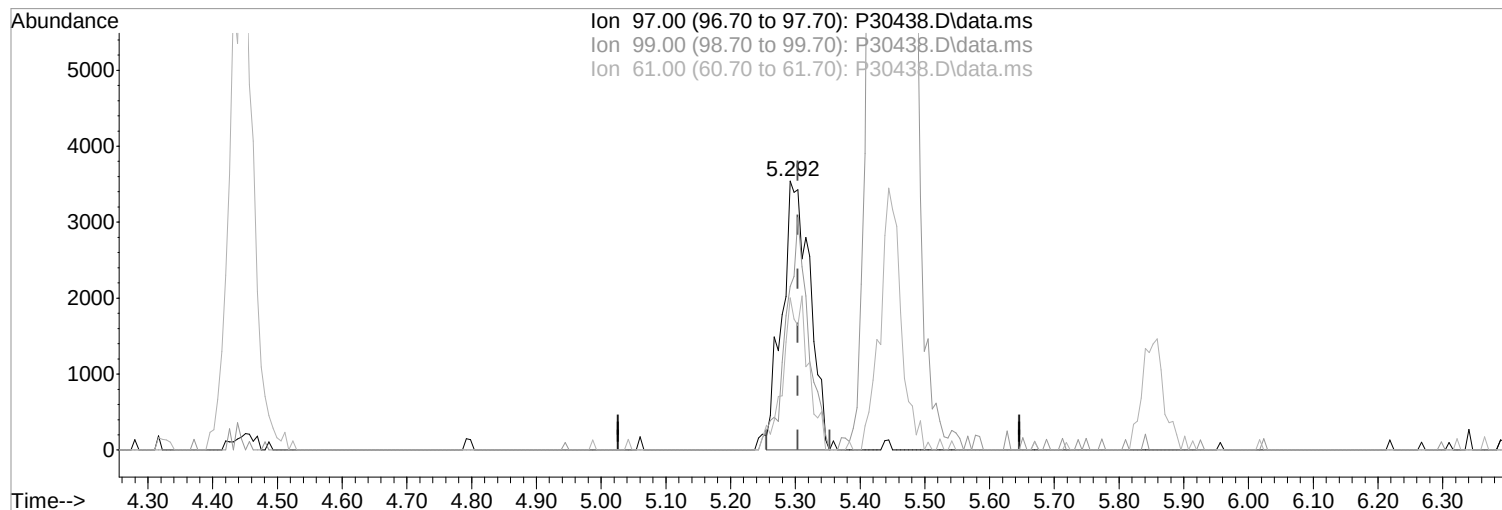
Quantitation Report (Qedit)

1st *FR* 10/01/19
2nd *FR* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30438.D
Acq On : 29 Sep 2019 4:53 pm
Operator : K.Ruest
Sample : R1909228-005|1.0
Misc : VERINA 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 30 09:08:15 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30438.D\data.ms

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

Manual Integration:

5.292min (-0.012) 2.08 ppb

Before

response 10520

Ion	Exp%	Act%
97.00	100	100
99.00	62.90	60.80
61.00	44.60	56.54
0.00	0.00	0.00

10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30438.D
 Acq On : 29 Sep 2019 4:53 pm
 Operator : K.Ruest
 Sample : R1909228-005|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 14:13:50 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

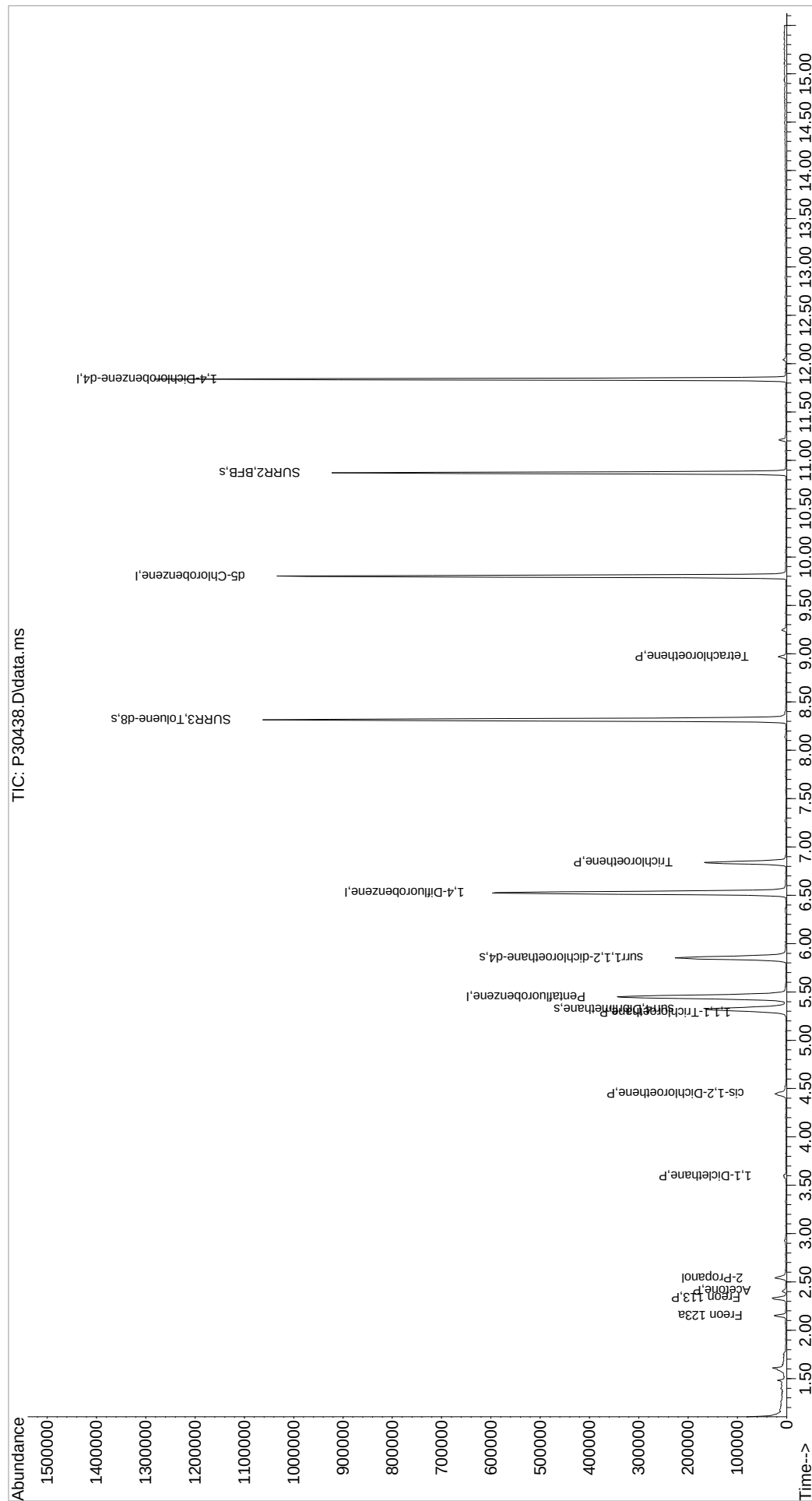
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	326900	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	528631	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	464082	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	238403	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	130451	46.56	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	93.12%		
48) surr1,1,2-dichloroetha...	5.853	65	186919	48.22	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	96.44%		
65) SURR3,Toluene-d8	8.316	98	647169	49.07	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	98.14%		
70) SURR2,BFB	10.870	95	240957	46.96	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	93.92%		
Target Compounds						
10) Freon 123a	2.152	67	9729	2.15	ppb	Qvalue 100
14) Freon 113	2.335	101	10314	3.32	ppb	95
15) Acetone	2.408	43	8165	3.07	ppb	98
16) 2-Propanol	2.542	45	26733	44.19	ppb	98
28) 1,1-Dicethane	3.597	63	5476	0.76	ppb	88
34) cis-1,2-Dichloroethene	4.450	96	11160	2.80	ppb	90
41) 1,1,1-Trichloroethane	5.292	97	10724m	2.12	ppb	
54) Trichloroethene	6.840	130	59473	16.83	ppb	93
72) Tetrachloroethene	8.974	164	3182	1.14	ppb	# 70

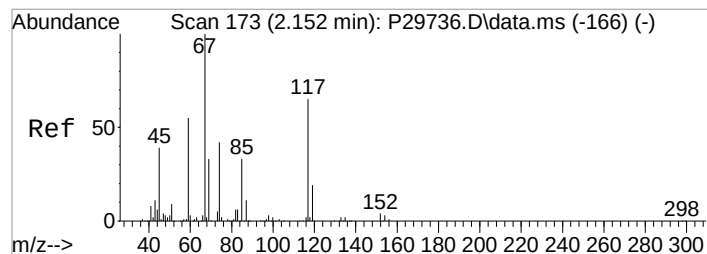
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30438.D
Acq On : 29 Sep 2019 4:53 pm
Operator : K.Ruest
Sample : R1909228-005|1.0
Misc : VERINA 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Inst : MSV0A-12

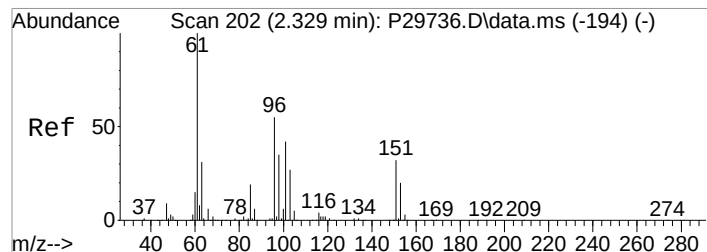
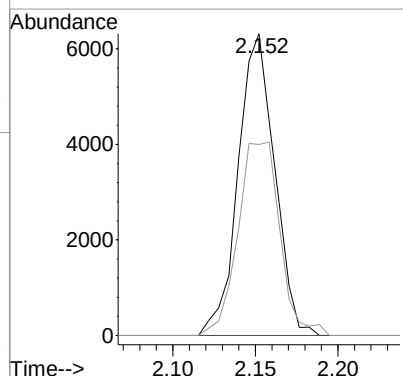
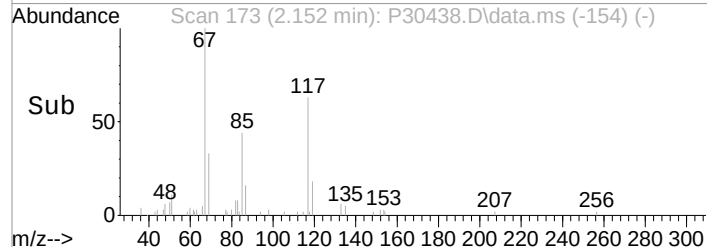
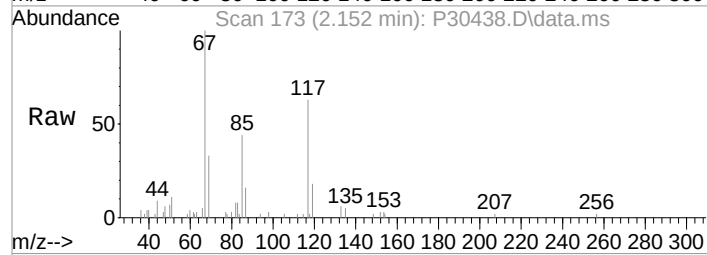
Quant Time: Oct 01 14:13:50 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration





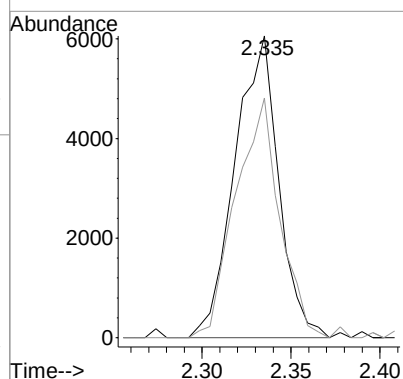
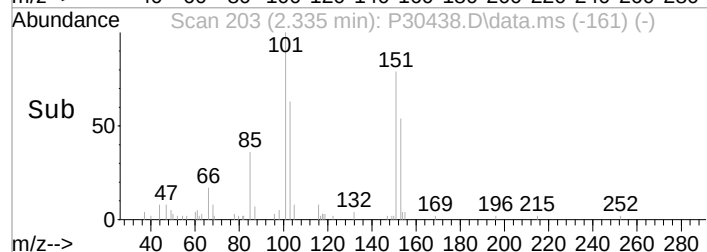
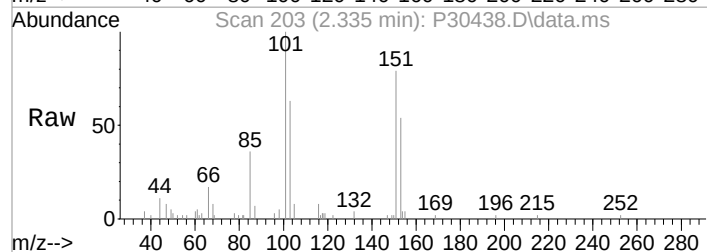
#10
 Freon 123a
 Concen: 2.15 ppb
 RT: 2.152 min Scan# 173
 Delta R.T. -0.000 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm

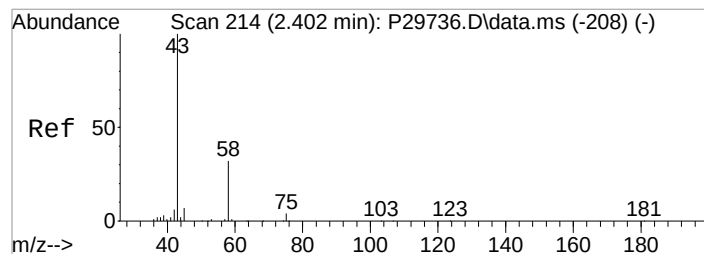
Tgt Ion: 67 Resp: 9729
 Ion Ratio Lower Upper
 67 100
 117 65.2 45.2 85.2



#14
 Freon 113
 Concen: 3.32 ppb
 RT: 2.335 min Scan# 203
 Delta R.T. -0.000 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm

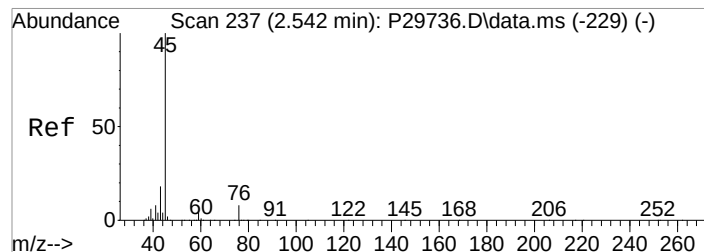
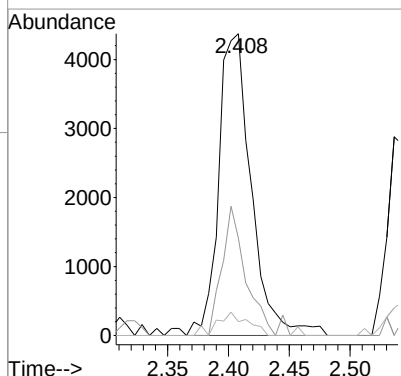
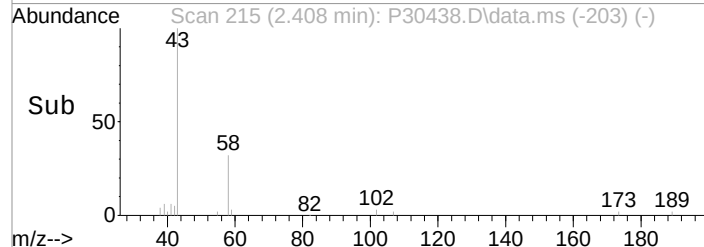
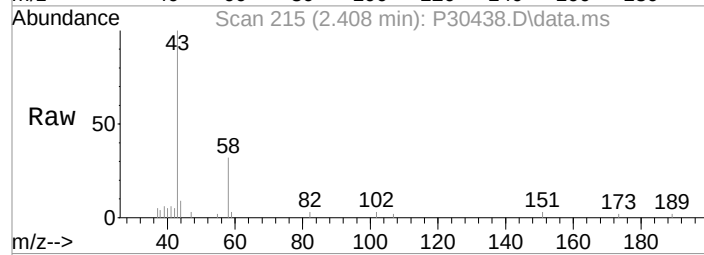
Tgt Ion: 101 Resp: 10314
 Ion Ratio Lower Upper
 101 100
 151 79.4 55.5 95.5





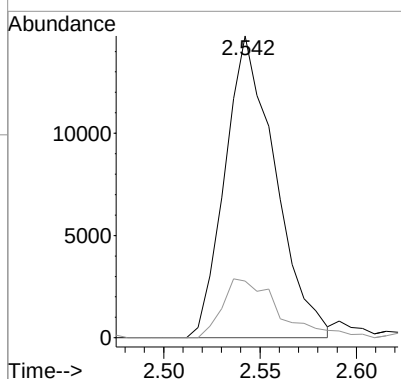
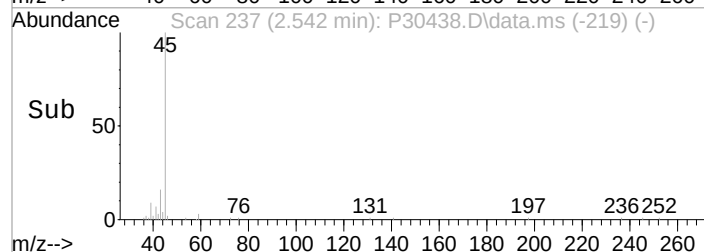
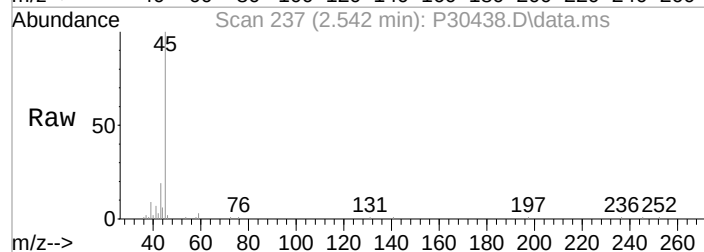
#15
 Acetone
 Concen: 3.07 ppb
 RT: 2.408 min Scan# 215
 Delta R.T. -0.000 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm

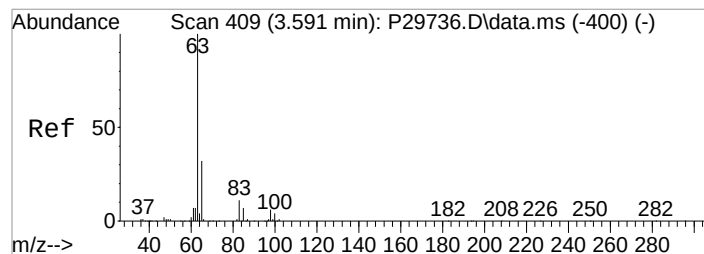
Tgt Ion: 43 Resp: 8165
 Ion Ratio Lower Upper
 43 100
 58 32.2 11.7 51.7
 42 4.6 0.0 26.5



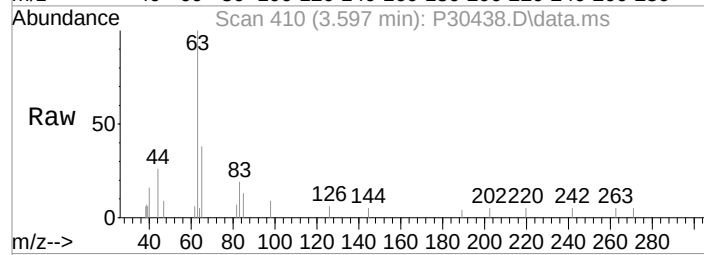
#16
 2-Propanol
 Concen: 44.19 ppb
 RT: 2.542 min Scan# 237
 Delta R.T. -0.000 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm

Tgt Ion: 45 Resp: 26733
 Ion Ratio Lower Upper
 45 100
 43 18.8 0.0 37.7

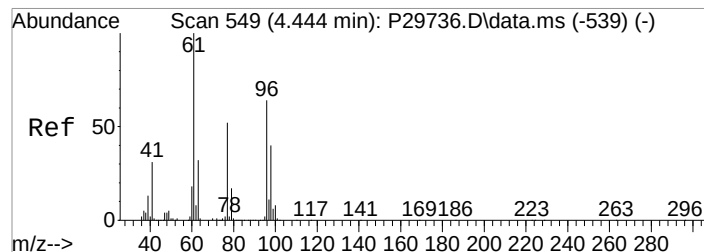
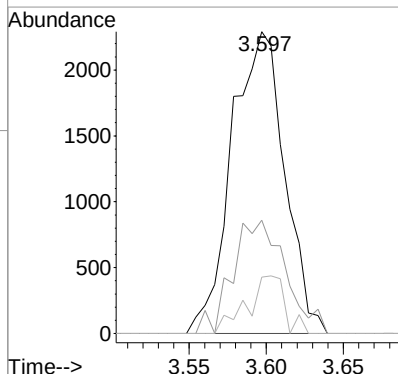
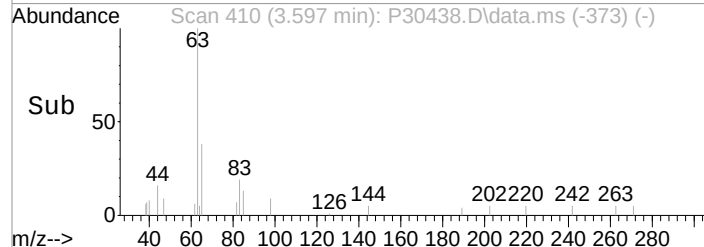




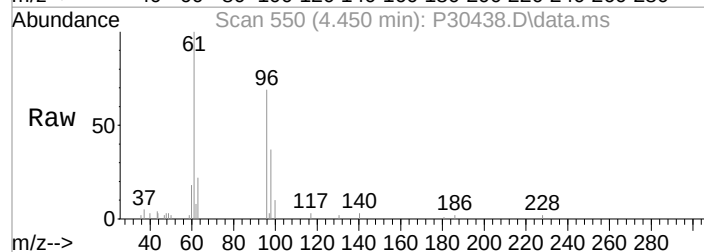
#28
 1,1-Dichloroethane
 Concen: 0.76 ppb
 RT: 3.597 min Scan# 410
 Delta R.T. -0.000 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm



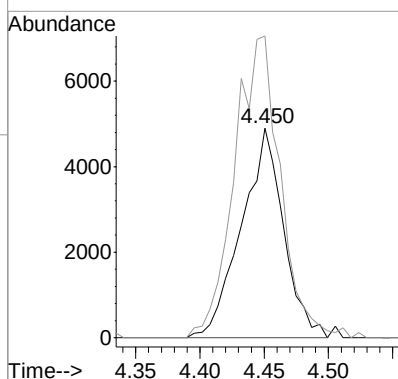
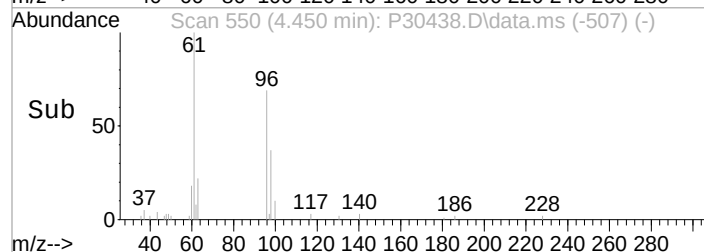
Tgt Ion: 63 Resp: 5476
 Ion Ratio Lower Upper
 63 100
 65 37.6 12.1 52.1
 83 18.7 0.0 31.3

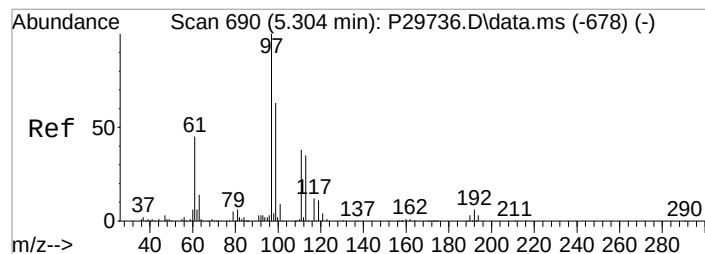


#34
 cis-1,2-Dichloroethene
 Concen: 2.80 ppb
 RT: 4.450 min Scan# 550
 Delta R.T. 0.006 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm

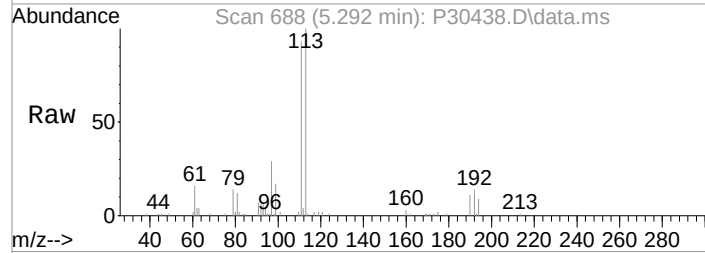


Tgt Ion: 96 Resp: 11160
 Ion Ratio Lower Upper
 96 100
 61 144.1 137.3 177.3

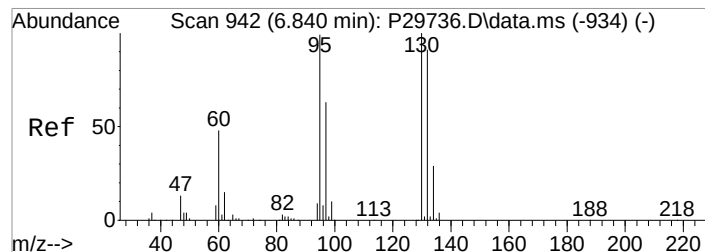
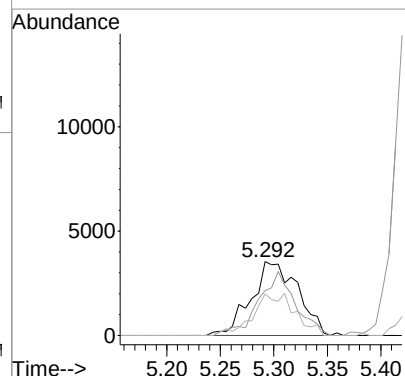
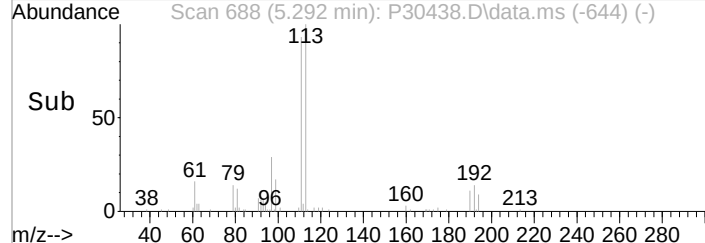




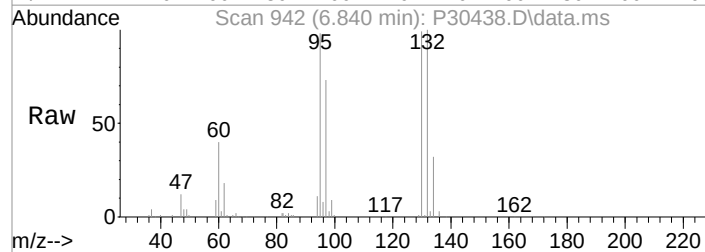
#41
 1,1,1-Trichloroethane
 Concen: 2.12 ppb m
 RT: 5.292 min Scan# 688
 Delta R.T. -0.012 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm



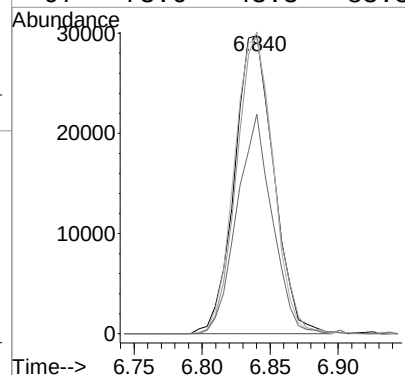
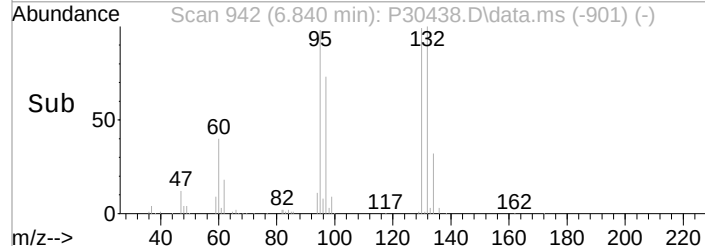
Tgt Ion:	97	Resp:	10724
Ion Ratio	100	Lower	Upper
99	60.8	42.9	82.9
61	56.5	24.6	64.6

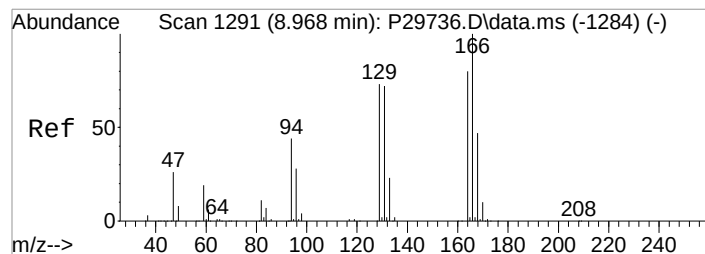


#54
 Trichloroethene
 Concen: 16.83 ppb
 RT: 6.840 min Scan# 942
 Delta R.T. -0.000 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm

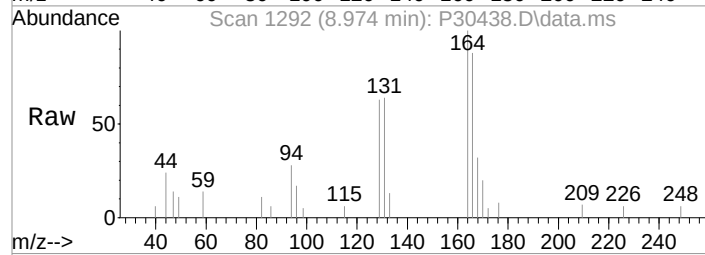


Tgt Ion:	130	Resp:	59473
Ion Ratio	100	Lower	Upper
132	101.2	71.1	111.1
95	98.9	79.6	119.6
97	73.6	43.3	83.3

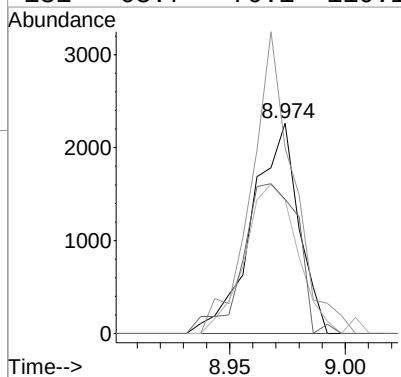
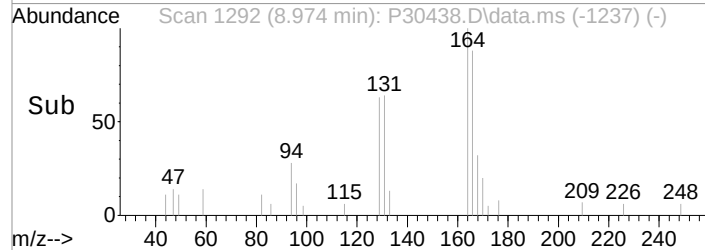




#72
 Tetrachloroethene
 Concen: 1.14 ppb
 RT: 8.974 min Scan# 1292
 Delta R.T. 0.006 min
 Lab File: P30438.D
 Acq: 29 Sep 2019 4:53 pm



Tgt Ion	164	Resp:	3182
Ion Ratio	Lower	Upper	
164	100		
166	88.0	104.8	144.8#
129	63.4	70.6	110.6#
131	63.7	70.1	110.1#



Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30436.D
 Acq On : 29 Sep 2019 4:09 pm
 Operator : K.Ruest
 Sample : R1909228-006|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA-12

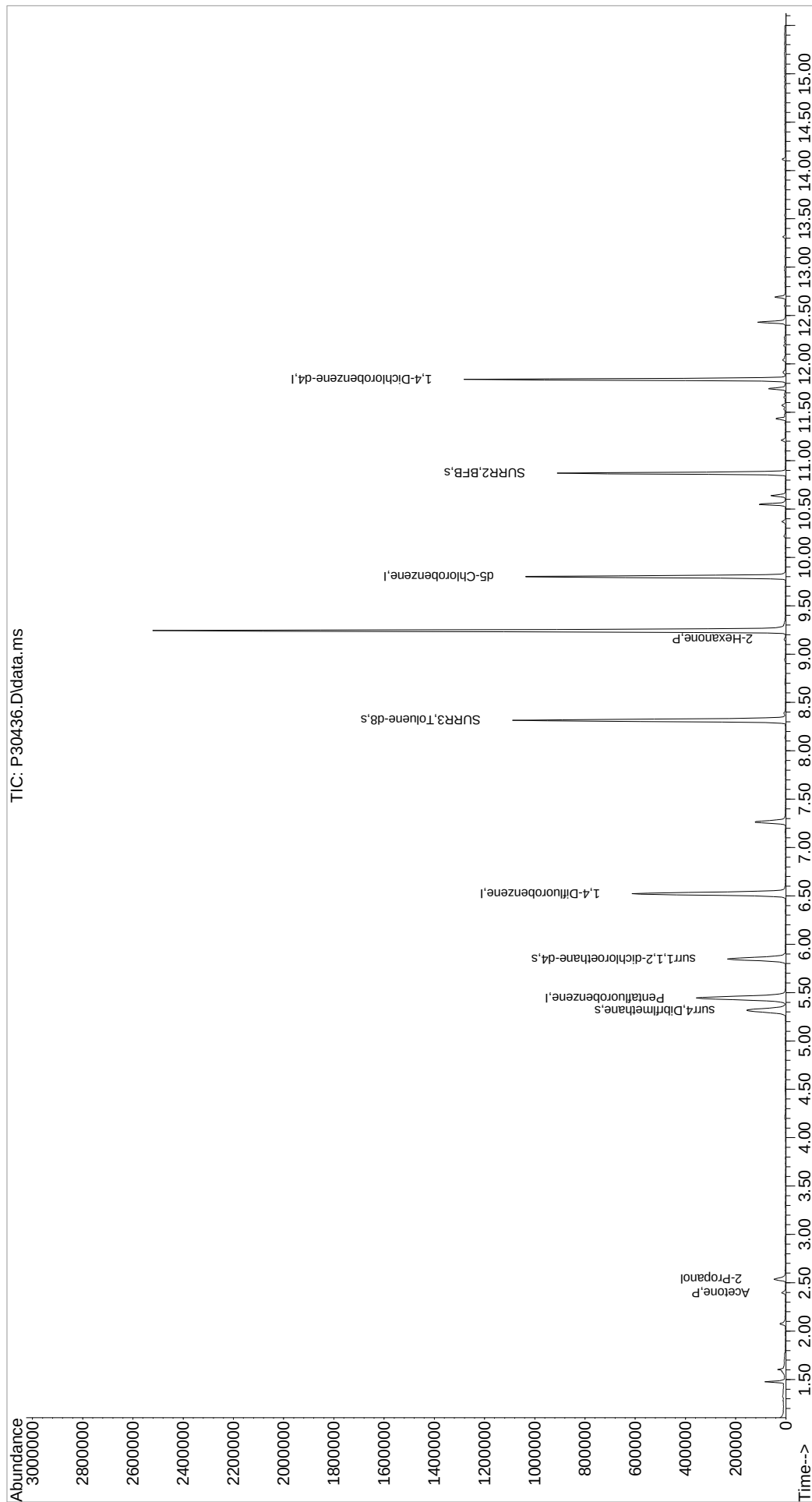
Quant Time: Oct 01 14:09:38 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

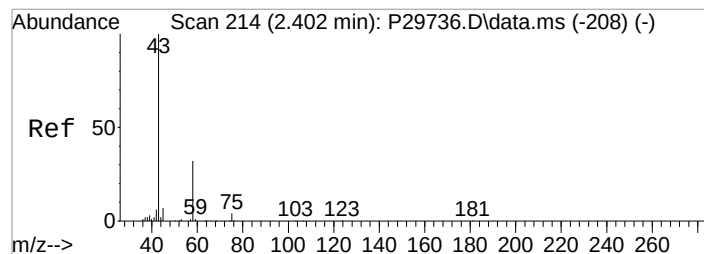
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	326690	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	535247	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	473659	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	243085	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	130148	45.88	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	91.76%	
48) surr1,1,2-dichloroetha...	5.847	65	191555	48.80	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	=	97.60%	
65) SURR3,Toluene-d8	8.316	98	653887	48.96	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.92%	
70) SURR2,BFB	10.870	95	244463	47.05	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.10%	
Target Compounds						Qvalue
15) Acetone	2.396	43	14619	5.50	ppb	84
16) 2-Propanol	2.536	45	58361	96.53	ppb	99
73) 2-Hexanone	9.157	43	3059	0.58	ppb	87

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

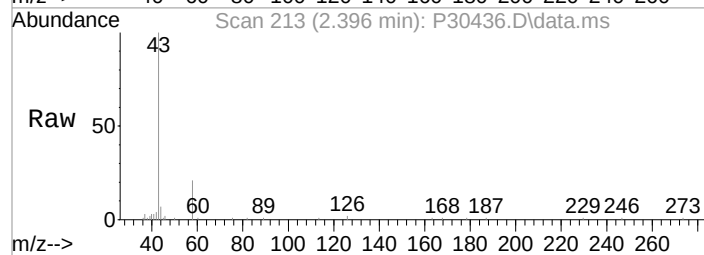
Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30436.D
Acq On : 29 Sep 2019 4:09 pm
Operator : K.Ruest
Sample : R1909228-006|1.0
Misc : VERINA 8260 T4
ALS Vial : 16 Sample Multiplier: 1
Inst : MSV0A-12

Quant Time: Oct 01 14:09:38 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration

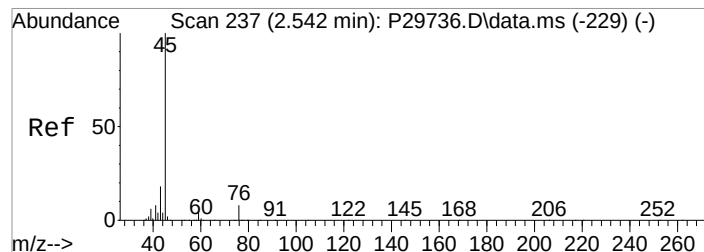
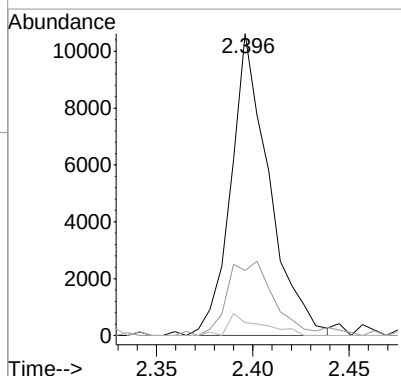
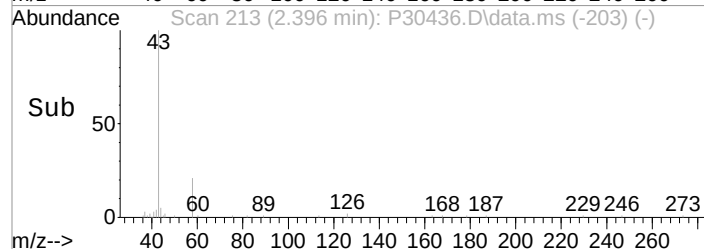




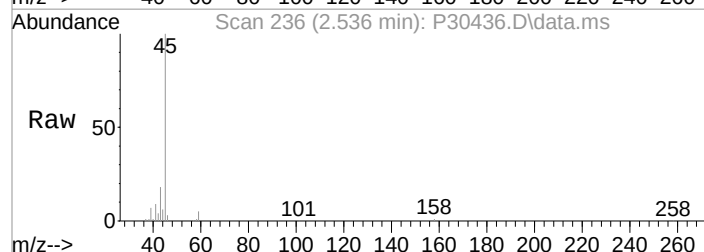
#15
 Acetone
 Concen: 5.50 ppb
 RT: 2.396 min Scan# 213
 Delta R.T. -0.012 min
 Lab File: P30436.D
 Acq: 29 Sep 2019 4:09 pm



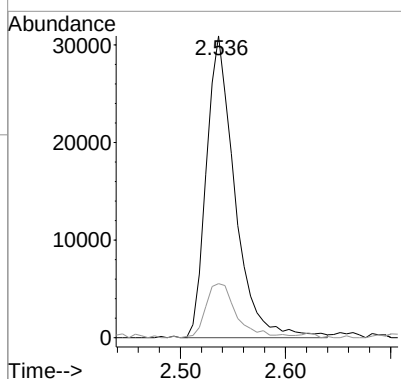
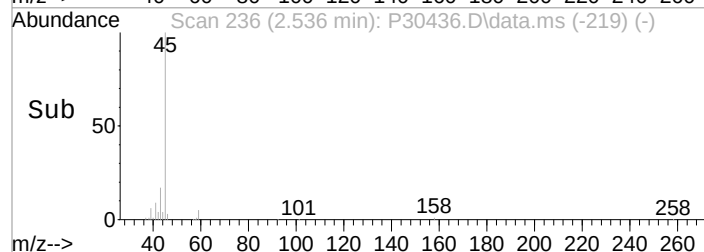
Tgt Ion: 43 Resp: 14619
 Ion Ratio Lower Upper
 43 100
 58 21.5 11.7 51.7
 42 4.2 0.0 26.5

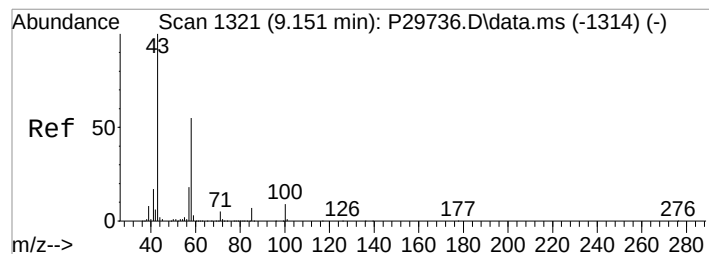


#16
 2-Propanol
 Concen: 96.53 ppb
 RT: 2.536 min Scan# 236
 Delta R.T. -0.006 min
 Lab File: P30436.D
 Acq: 29 Sep 2019 4:09 pm

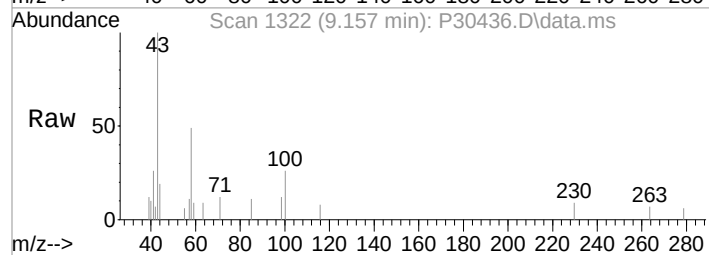


Tgt Ion: 45 Resp: 58361
 Ion Ratio Lower Upper
 45 100
 43 18.0 0.0 37.7

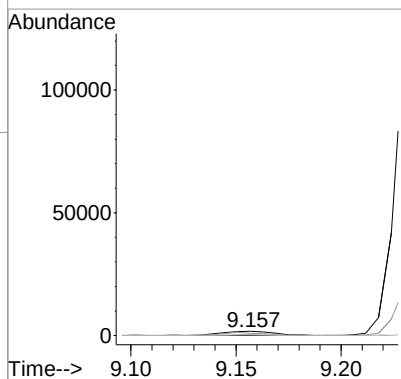
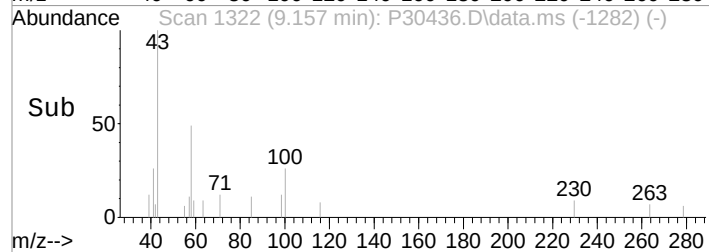




#73
 2-Hexanone
 Concen: 0.58 ppb
 RT: 9.157 min Scan# 1322
 Delta R.T. 0.000 min
 Lab File: P30436.D
 Acq: 29 Sep 2019 4:09 pm



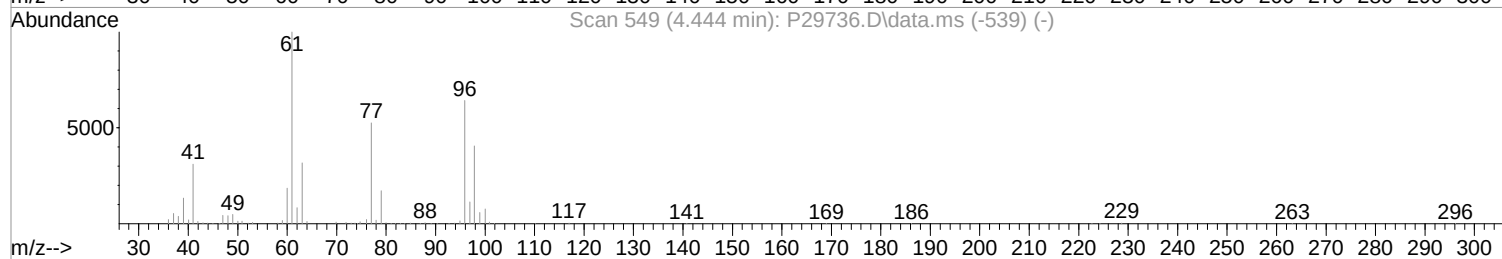
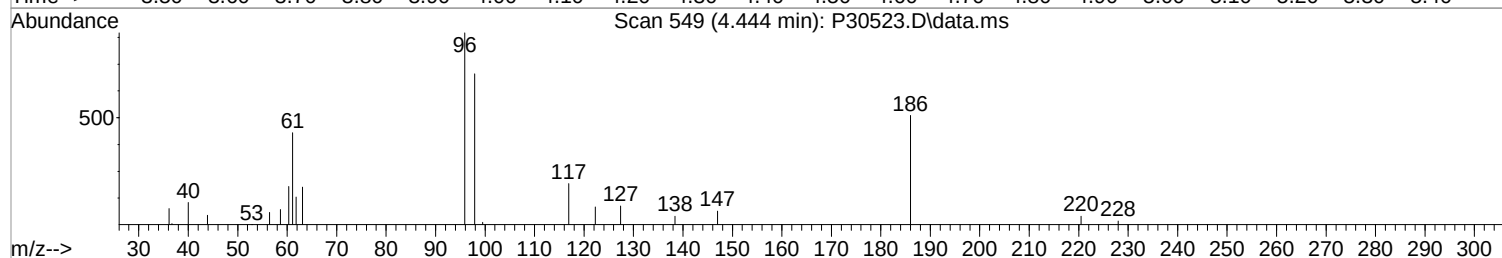
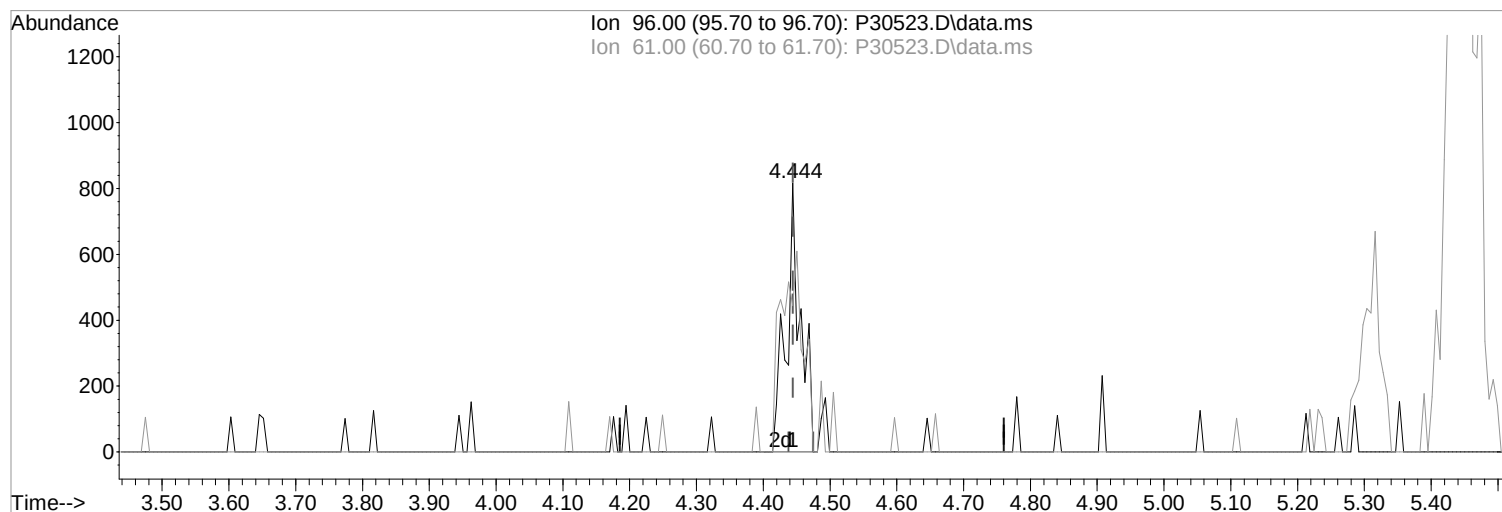
Tgt Ion: 43 Resp: 3059
 Ion Ratio Lower Upper
 43 100
 58 49.5 34.6 74.6
 100 25.7 0.0 29.2



Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 15:55:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30523.D\data.ms

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

4.444min (-0.000) 0.32 ppb m

response 1206

Ion	Exp%	Act%
96.00	100	100
61.00	157.30	54.35#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

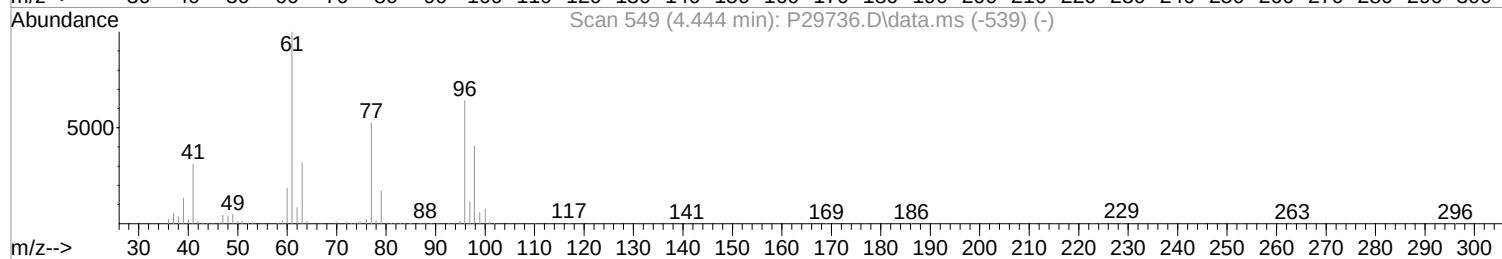
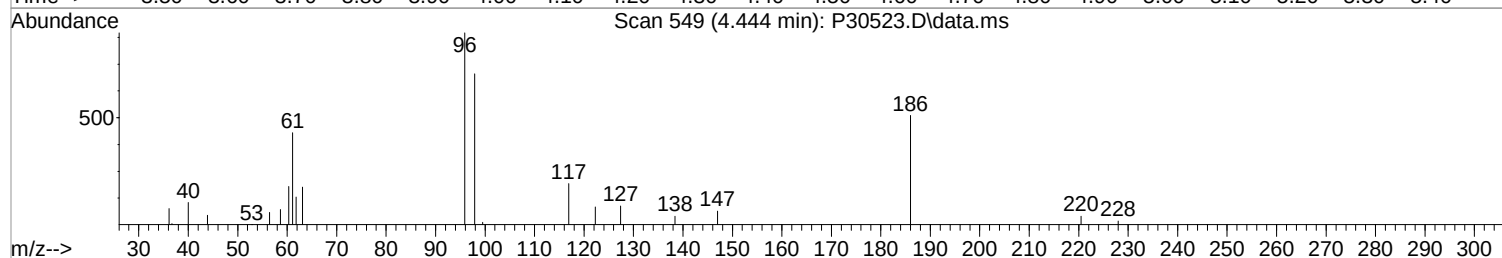
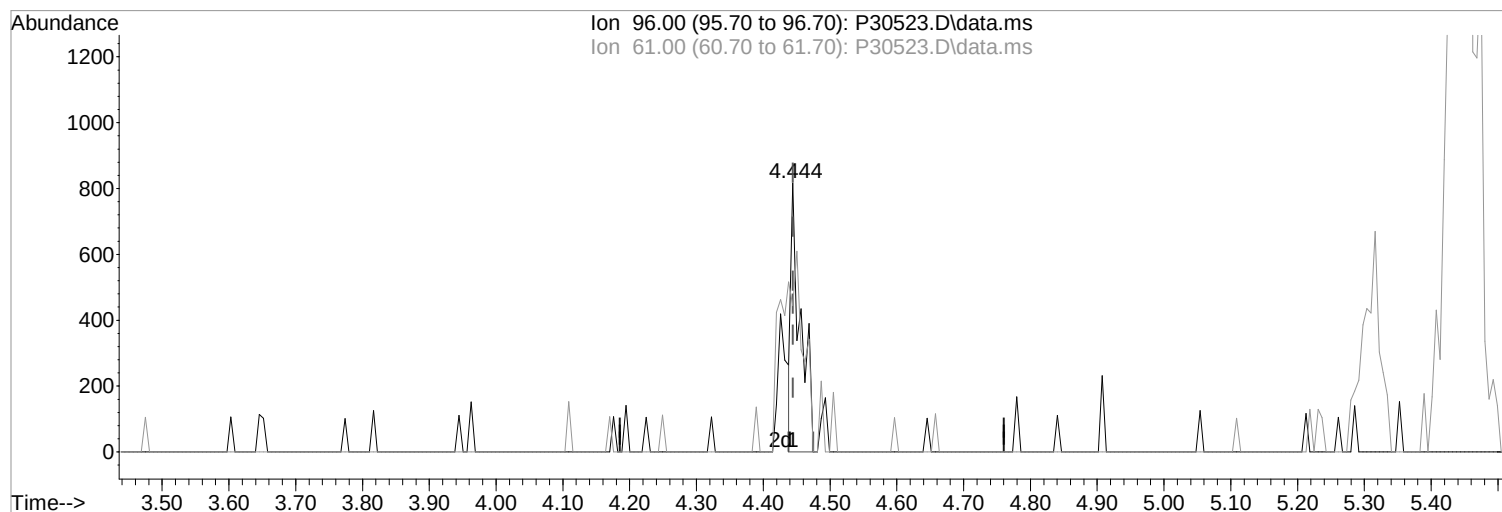
Split Peak

10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 15:55:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30523.D\data.ms

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

Manual Integration:

4.444min (-0.000) 0.21 ppb

Before

response 802

Ion	Exp%	Act%

10/07/19

96.00	100	100

61.00	157.30	54.35#

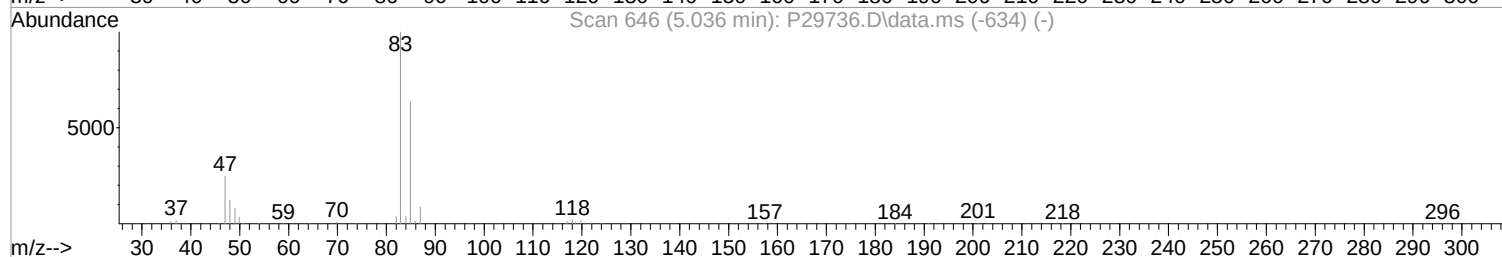
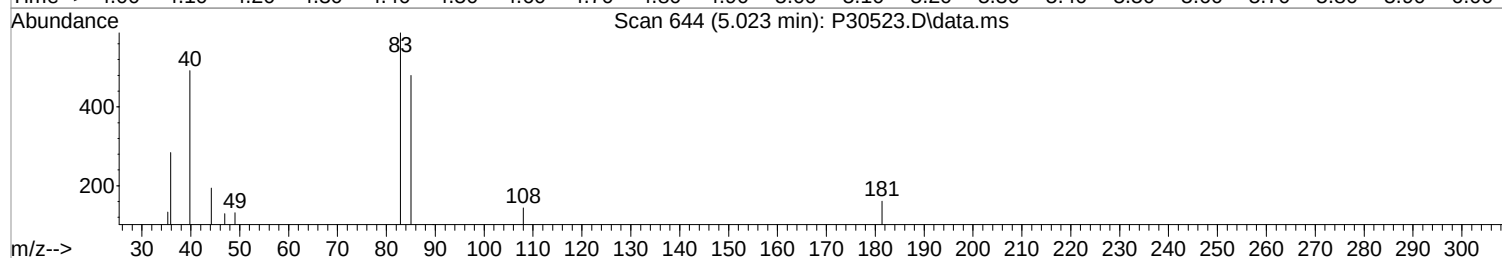
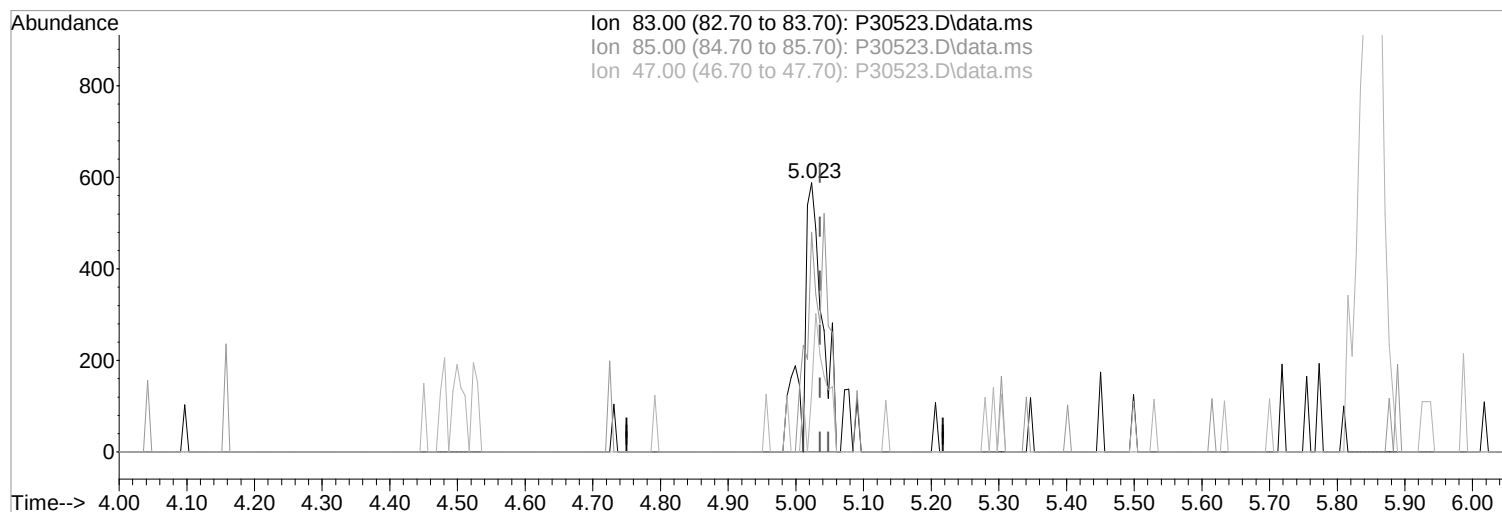
0.00	0.00	0.00

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 15:55:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30523.D\data.ms

(40) Chloroform (P)

Manual Integration:

5.023min (-0.012) 0.20 ppb m

After

response 1174

Split Peak

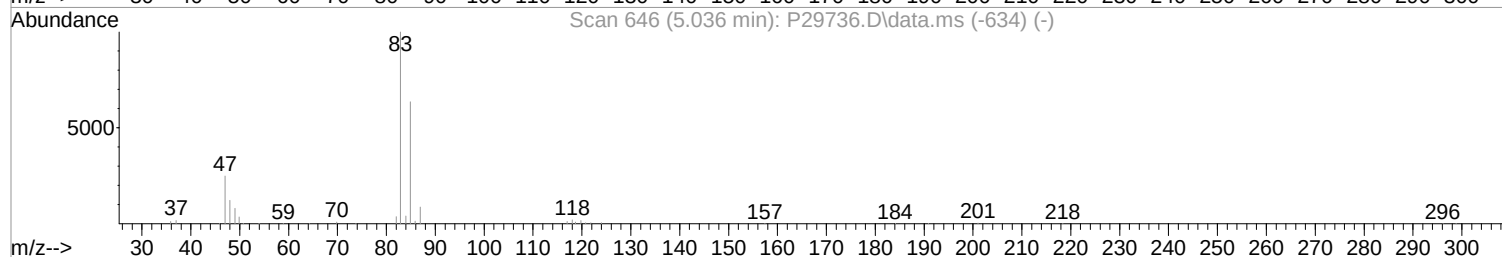
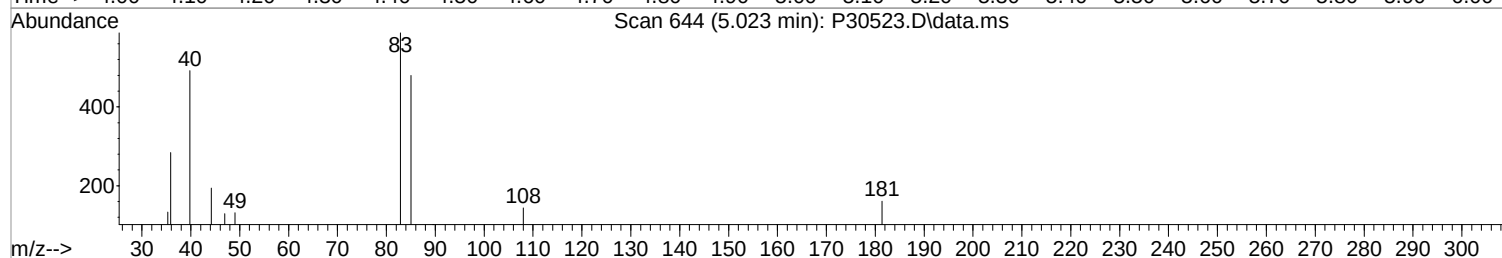
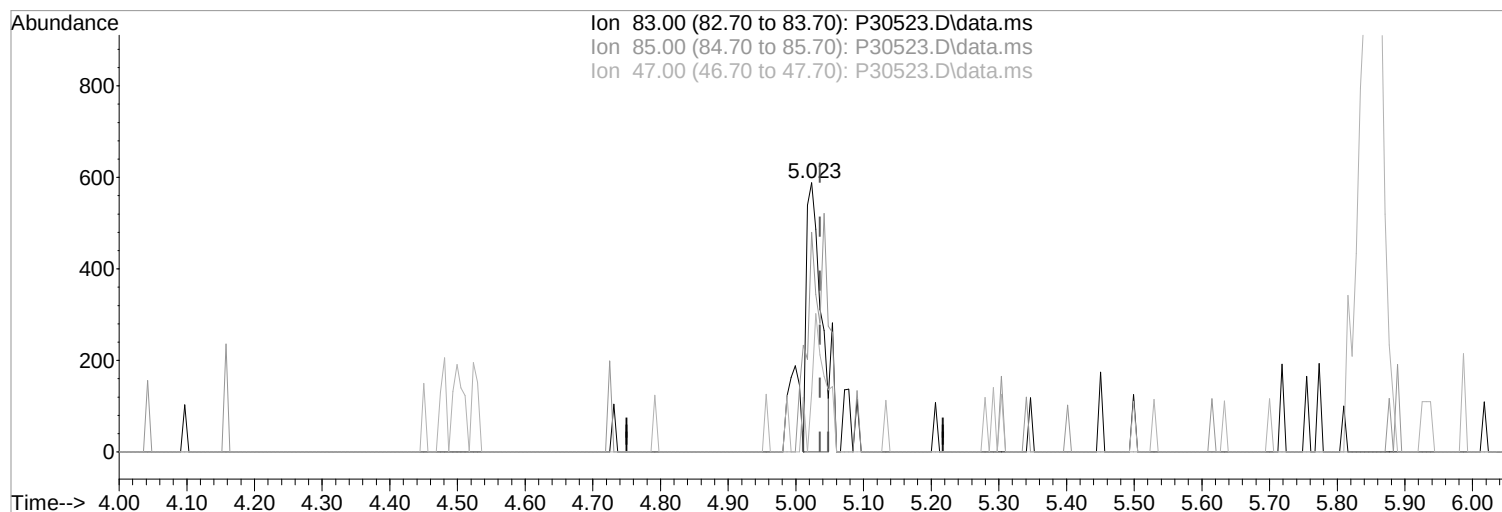
Ion	Exp%	Act%
83.00	100	100
85.00	63.90	81.63
47.00	24.90	21.94
0.00	0.00	0.00

10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 15:55:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30523.D\data.ms

(40) Chloroform (P)

Manual Integration:

5.023min (-0.012) 0.14 ppb

Before

response 844

Ion	Exp%	Act%
83.00	100	100
85.00	63.90	81.63
47.00	24.90	21.94
0.00	0.00	0.00

10/07/19

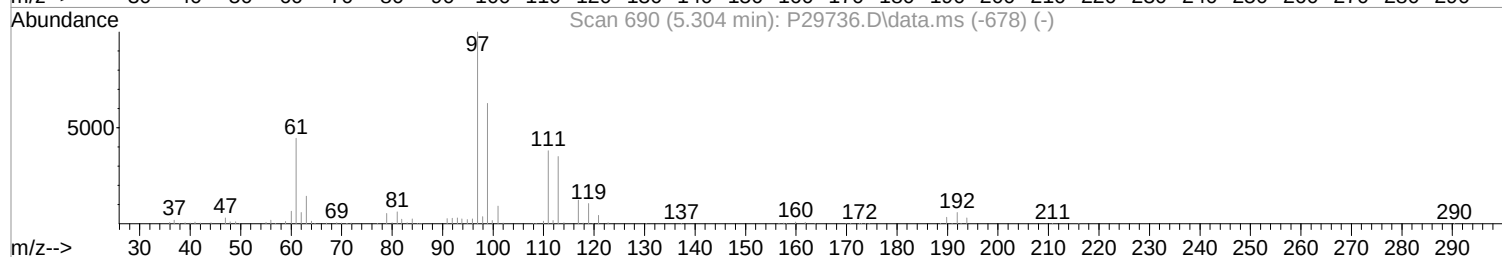
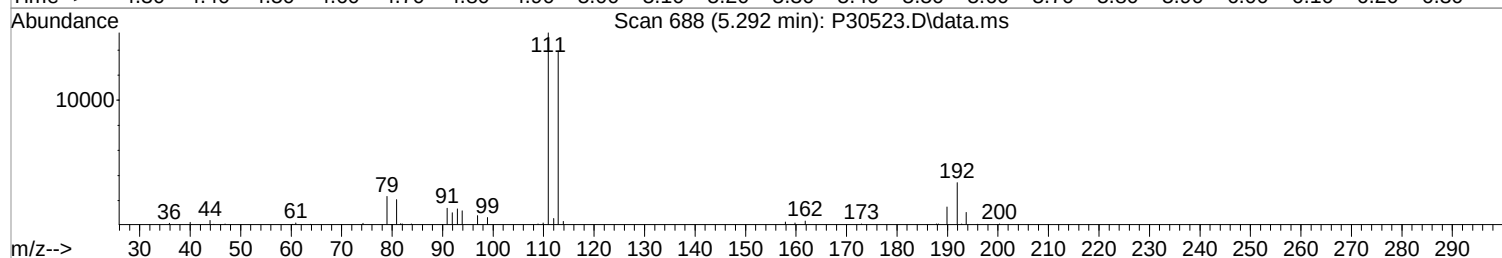
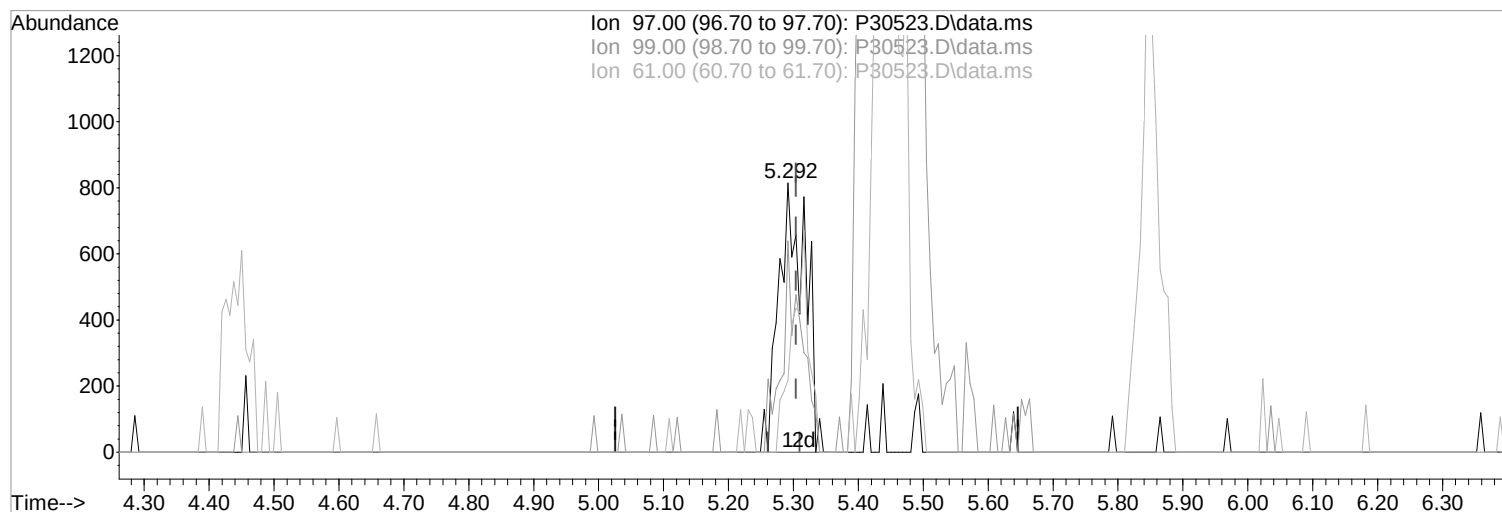
Quantitation Report (Qedit)

1st *FR* 10/07/19
2nd *FR* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 15:55:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30523.D\data.ms

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

Manual Integration:

5.292min (-0.012) 0.49 ppb m

After

response 2310

Split Peak

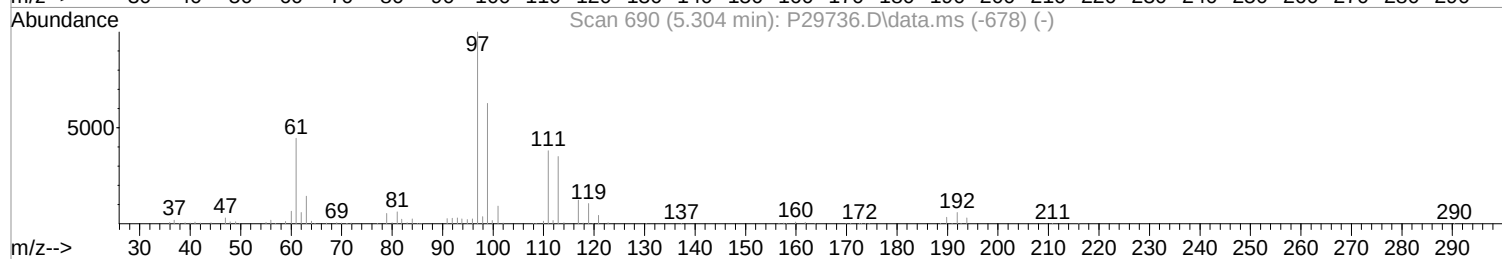
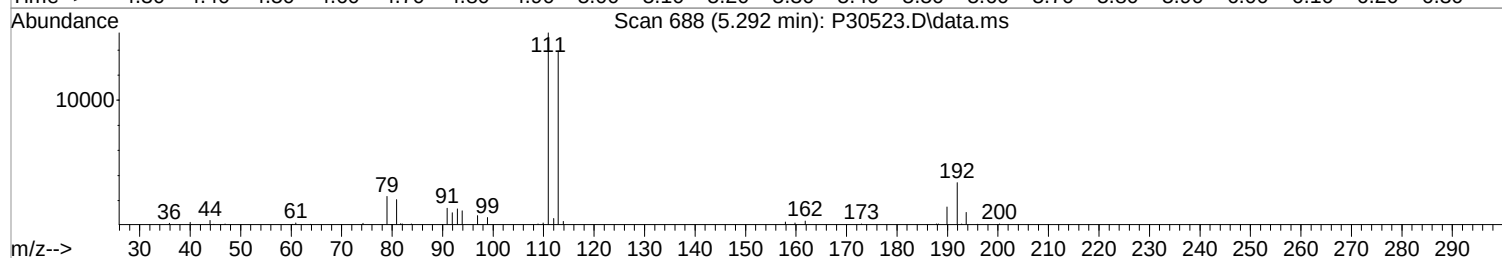
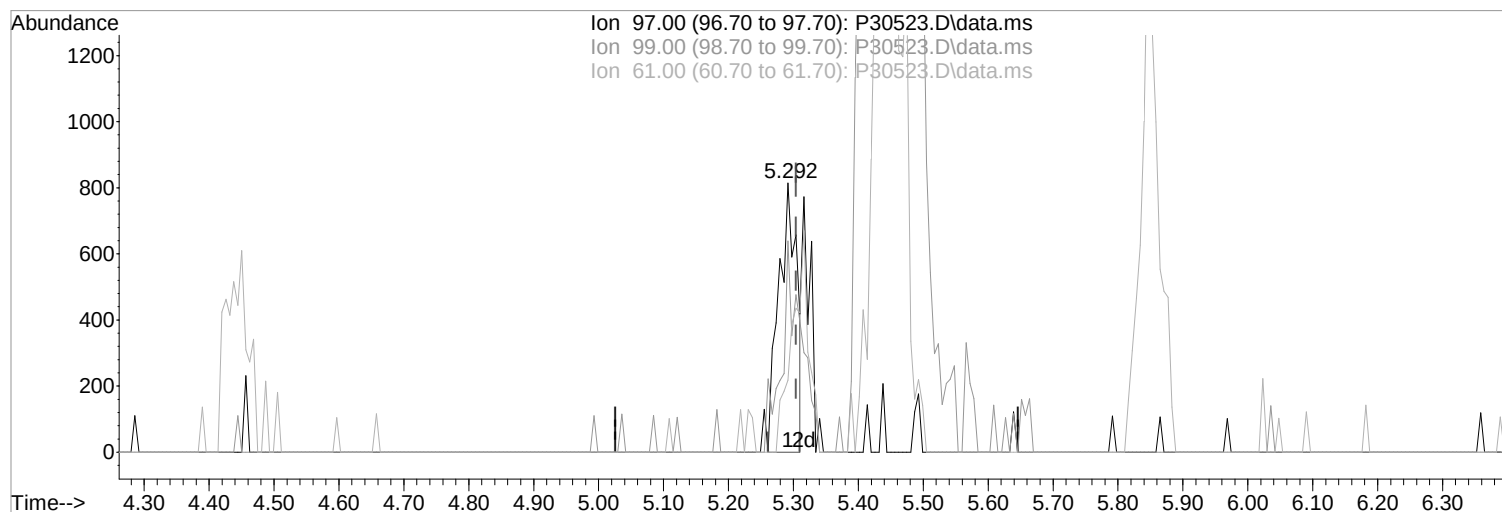
Ion	Exp%	Act%
97.00	100	100
99.00	62.90	78.50
61.00	44.60	26.78
0.00	0.00	0.00

10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 15:55:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30523.D\data.ms

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

Manual Integration:

5.292min (-0.012) 0.33 ppb

Before

response 1568

Ion	Exp%	Act%
97.00	100	100
99.00	62.90	78.50
61.00	44.60	26.78
0.00	0.00	0.00

10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30523.D
 Acq On : 1 Oct 2019 3:27 pm
 Operator : K.Ruest
 Sample : R1909228-007|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

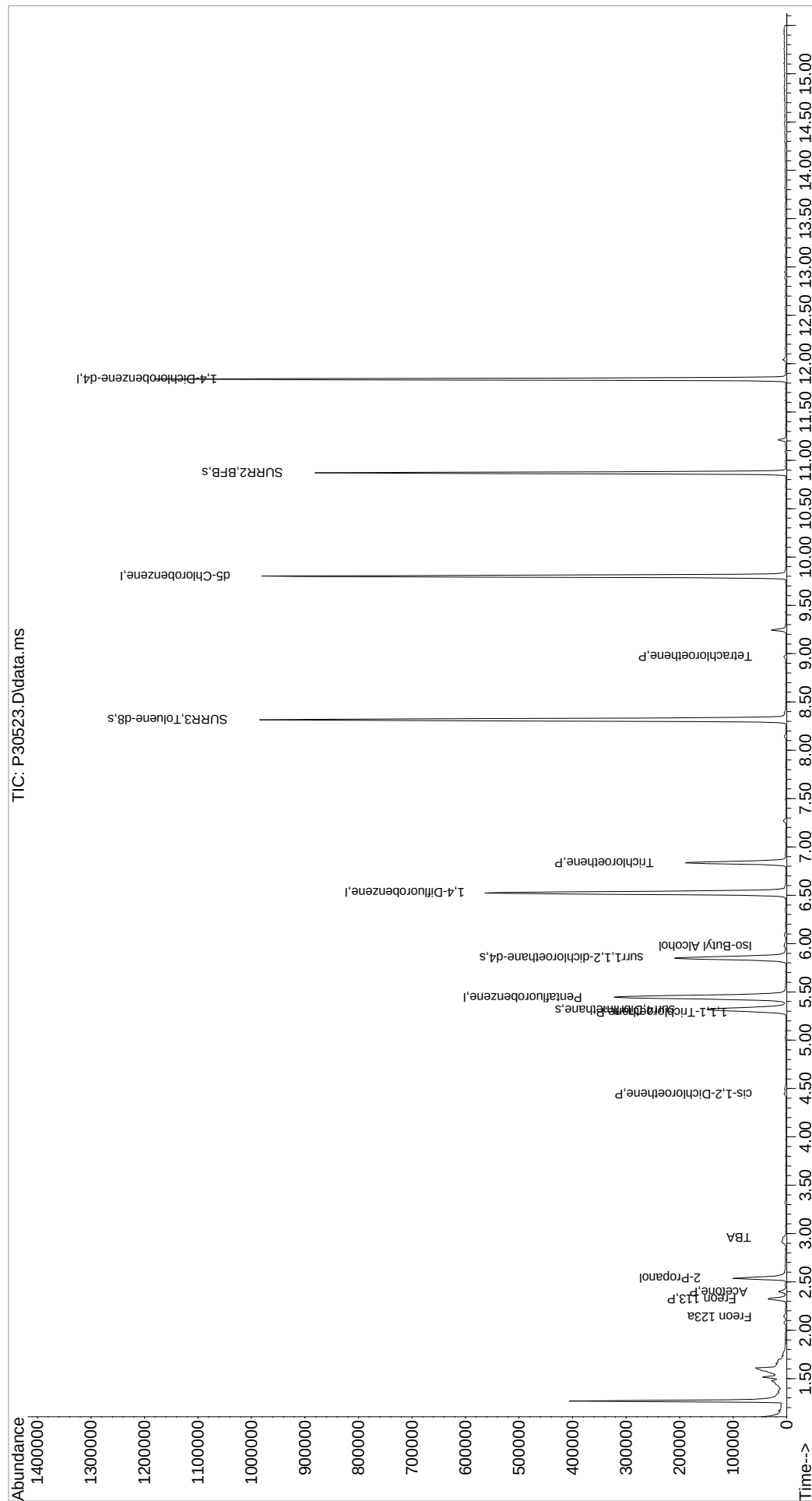
Quant Time: Oct 07 15:45:04 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

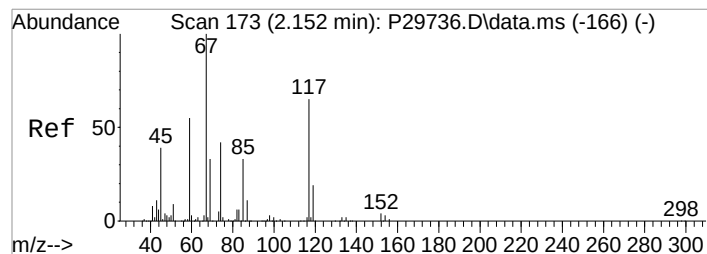
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	306868	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	491307	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	430954	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	227137	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	125943	48.37	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	96.74%	
48) surr1,1,2-dichloroetha...	5.853	65	174810	48.52	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	97.04%	
65) SURR3,Toluene-d8	8.315	98	598086	48.79	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.58%	
70) SURR2,BFB	10.870	95	224968	47.17	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.34%	
Target Compounds						
10) Freon 123a	2.140	67	1547	0.36	ppb	Qvalue 87
14) Freon 113	2.323	101	12991	4.45	ppb	85
15) Acetone	2.396	43	14514	5.81	ppb	90
16) 2-Propanol	2.536	45	112466	198.04	ppb	98
23) TBA	2.957	59	6316	7.51	ppb	94
34) cis-1,2-Dichloroethene	4.444	96	1206m	0.32	ppb	
41) 1,1,1-Trichloroethane	5.292	97	2310m	0.49	ppb	
51) Iso-Butyl Alcohol	5.974	43	2677	6.37	ppb	81
54) Trichloroethene	6.834	130	68805	20.95	ppb	97
72) Tetrachloroethene	8.968	164	741	0.29	ppb	# 67

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

Data Path : I:\ACQUDATA\msvoa12\Data\1001119\
Data File : P30523.D
Acq On : 1 Oct 2019 3:27 pm
Operator : K.Ruest
Sample : R1909228-007|1.0
Misc : VERINA 8260 T4
ALS Vial : 8 Sample Multiplier: 1
Inst : MSV0A-12

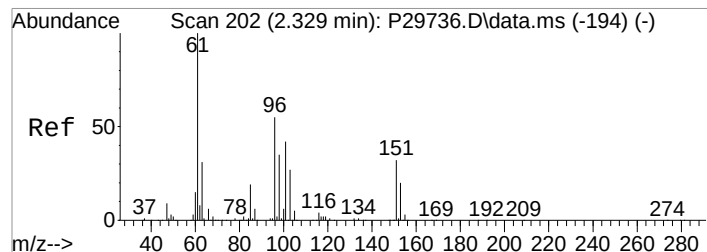
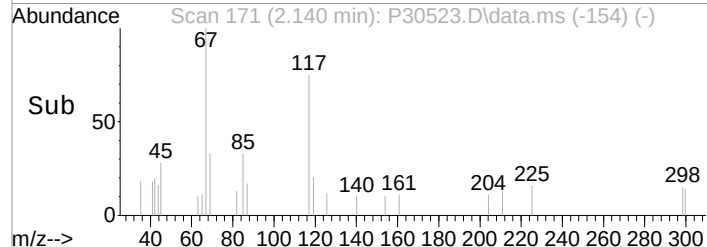
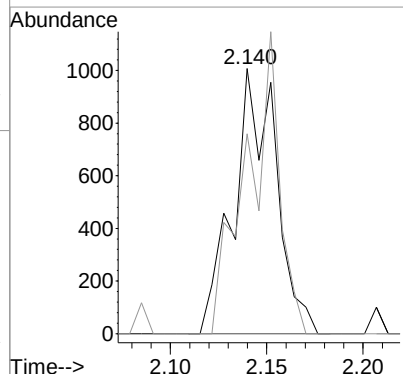
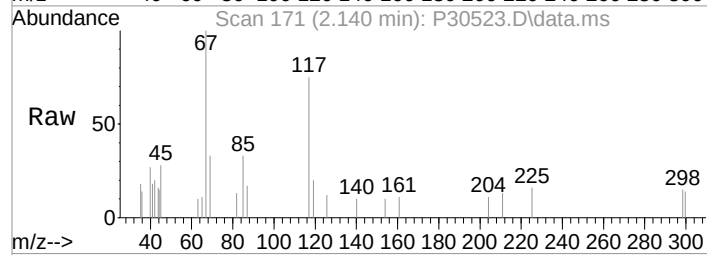
Quant Time: Oct 07 15:45:04 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W0911119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration





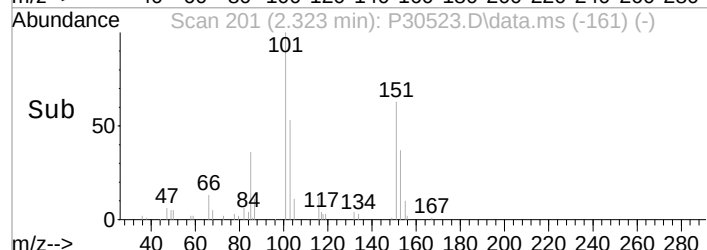
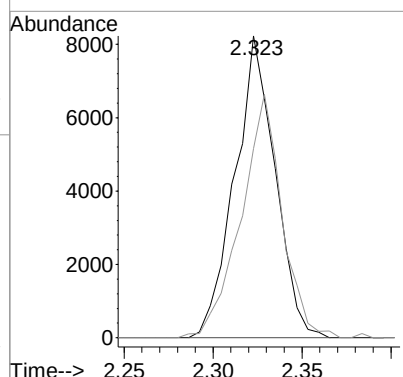
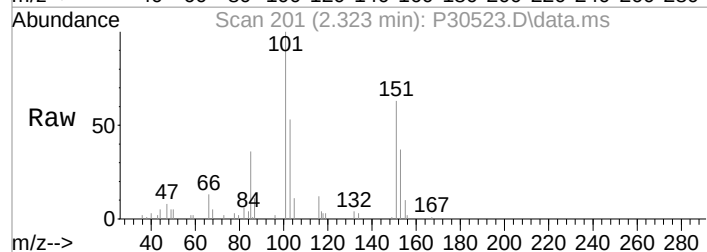
#10
Freon 123a
Concen: 0.36 ppb
RT: 2.140 min Scan# 171
Delta R.T. -0.012 min
Lab File: P30523.D
Acq: 1 Oct 2019 3:27 pm

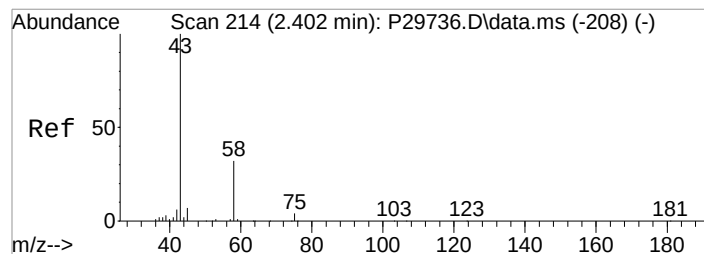
Tgt Ion: 67 Resp: 1547
Ion Ratio Lower Upper
67 100
117 75.4 45.2 85.2



#14
Freon 113
Concen: 4.45 ppb
RT: 2.323 min Scan# 201
Delta R.T. -0.012 min
Lab File: P30523.D
Acq: 1 Oct 2019 3:27 pm

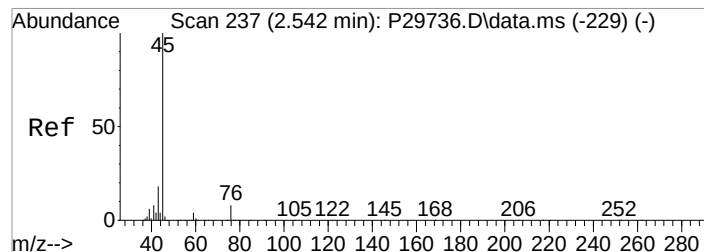
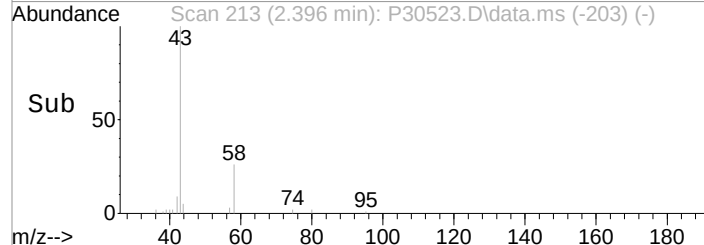
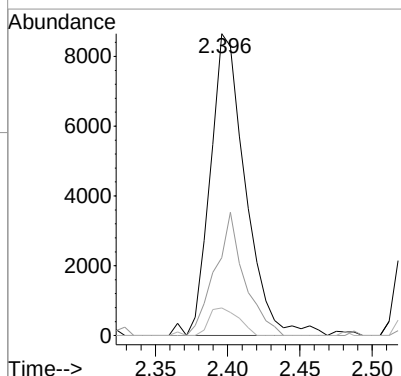
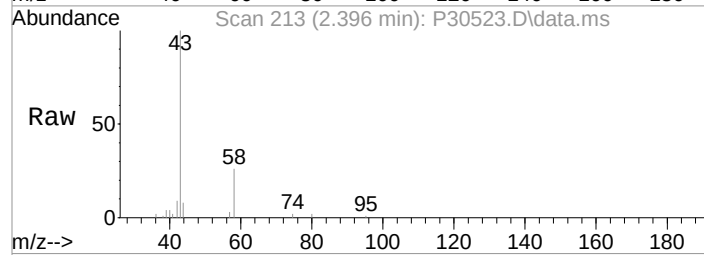
Tgt Ion: 101 Resp: 12991
Ion Ratio Lower Upper
101 100
151 62.6 55.5 95.5





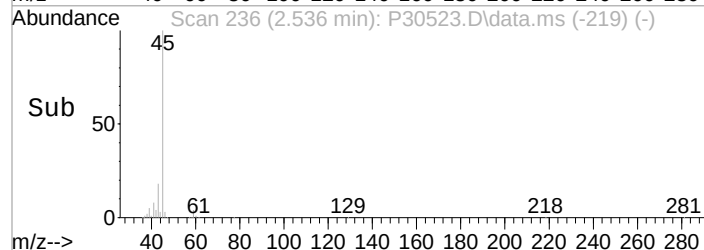
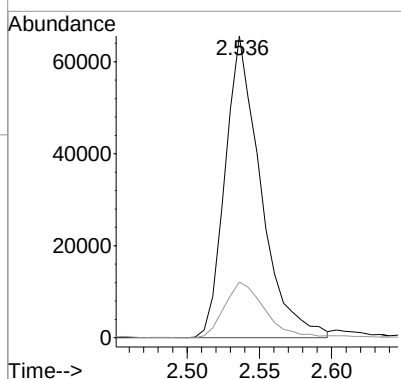
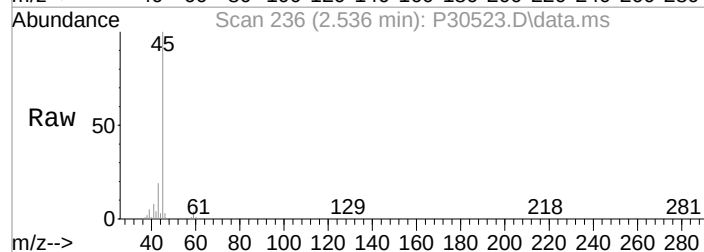
#15
Acetone
Concen: 5.81 ppb
RT: 2.396 min Scan# 213
Delta R.T. -0.012 min
Lab File: P30523.D
Acq: 1 Oct 2019 3:27 pm

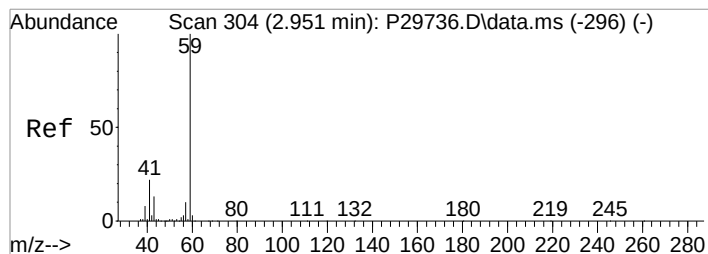
Tgt Ion: 43 Resp: 14514
Ion Ratio Lower Upper
43 100
58 25.8 11.7 51.7
42 9.2 0.0 26.5



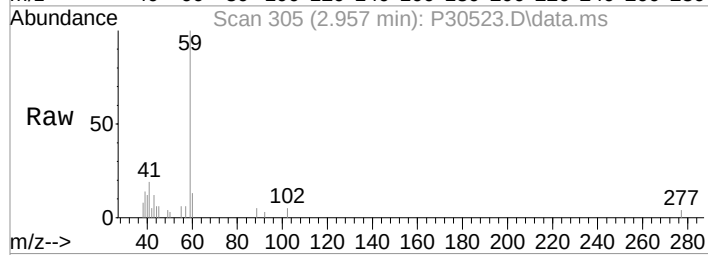
#16
2-Propanol
Concen: 198.04 ppb
RT: 2.536 min Scan# 236
Delta R.T. -0.006 min
Lab File: P30523.D
Acq: 1 Oct 2019 3:27 pm

Tgt Ion: 45 Resp: 112466
Ion Ratio Lower Upper
45 100
43 18.5 0.0 37.7

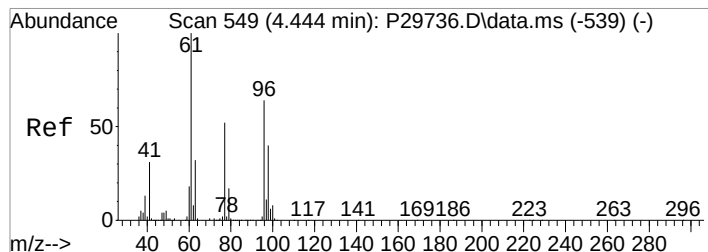
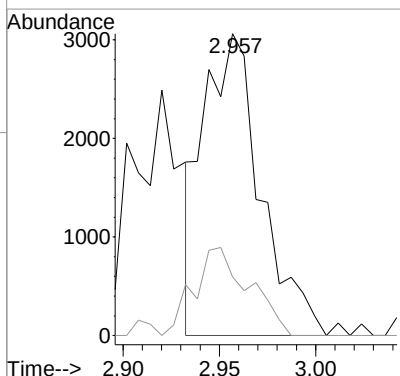
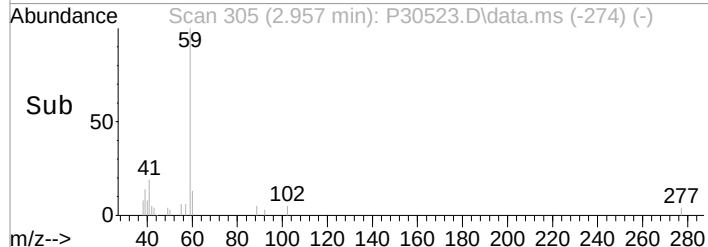




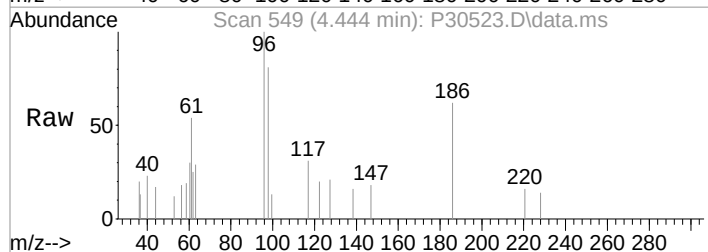
#23
 TBA
 Concen: 7.51 ppb
 RT: 2.957 min Scan# 305
 Delta R.T. -0.000 min
 Lab File: P30523.D
 Acq: 1 Oct 2019 3:27 pm



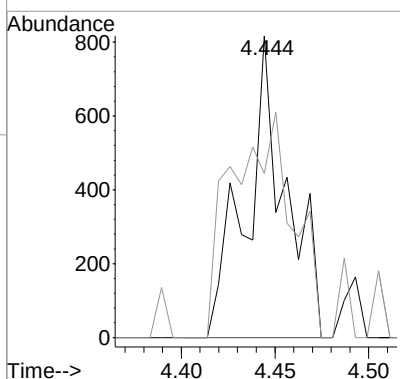
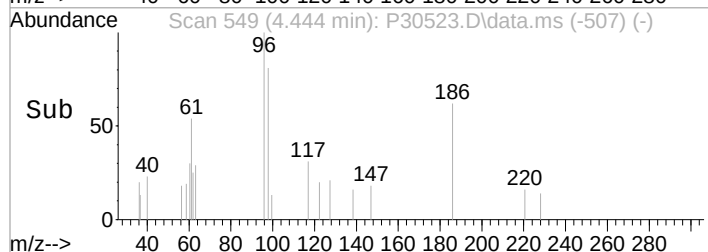
Tgt Ion: 59 Resp: 6316
 Ion Ratio Lower Upper
 59 100
 41 19.4 2.2 42.2

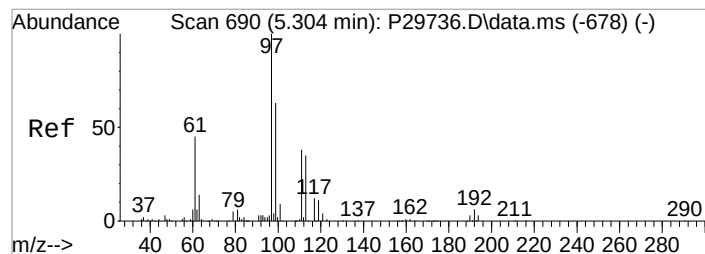


#34
 cis-1,2-Dichloroethene
 Concen: 0.32 ppb m
 RT: 4.444 min Scan# 549
 Delta R.T. -0.000 min
 Lab File: P30523.D
 Acq: 1 Oct 2019 3:27 pm

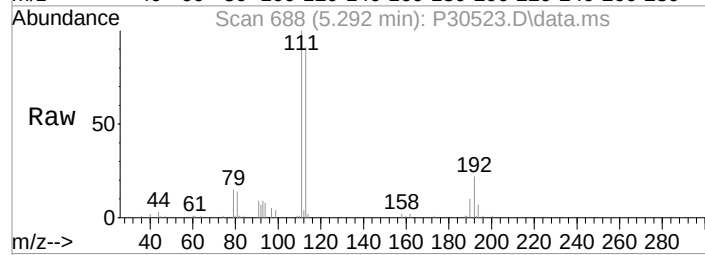


Tgt Ion: 96 Resp: 1206
 Ion Ratio Lower Upper
 96 100
 61 54.3 137.3 177.3#

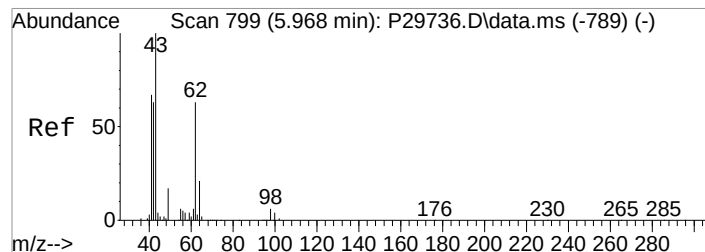
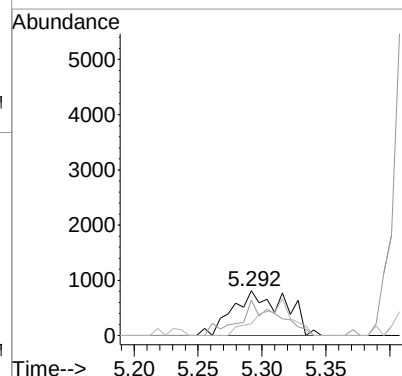
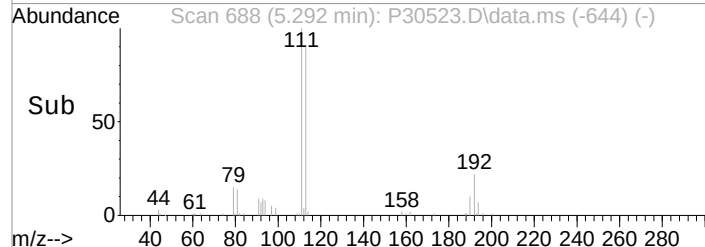




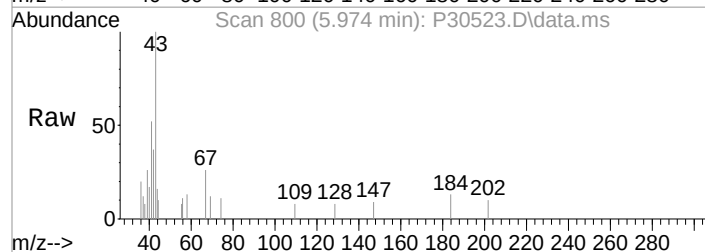
#41
 1,1,1-Trichloroethane
 Concen: 0.49 ppb m
 RT: 5.292 min Scan# 688
 Delta R.T. -0.012 min
 Lab File: P30523.D
 Acq: 1 Oct 2019 3:27 pm



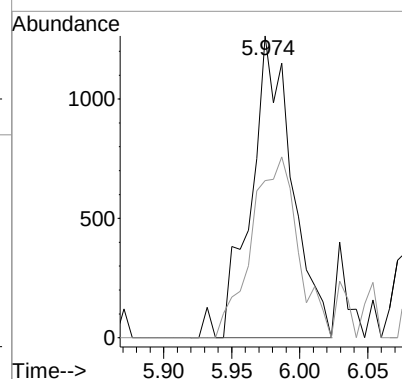
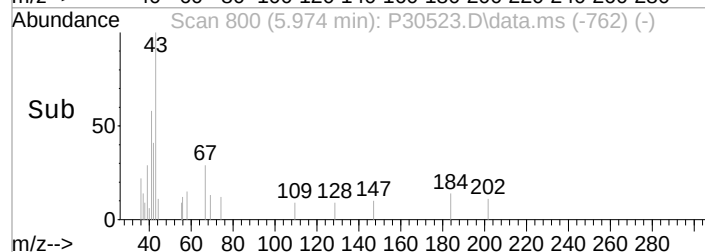
Tgt Ion:	97	Resp:	2310
Ion Ratio	Lower	Upper	
97	100		
99	78.5	42.9	82.9
61	26.8	24.6	64.6

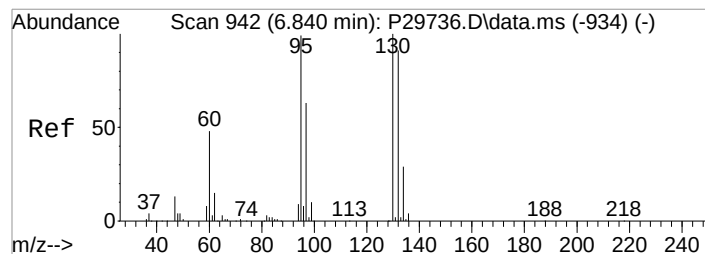


#51
 Iso-Butyl Alcohol
 Concen: 6.37 ppb
 RT: 5.974 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: P30523.D
 Acq: 1 Oct 2019 3:27 pm

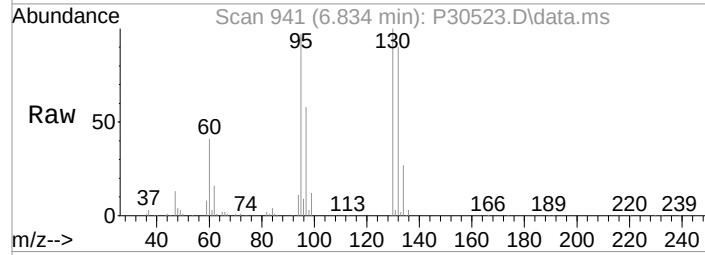


Tgt Ion:	43	Resp:	2677
Ion Ratio	Lower	Upper	
43	100		
41	52.0	47.1	87.1

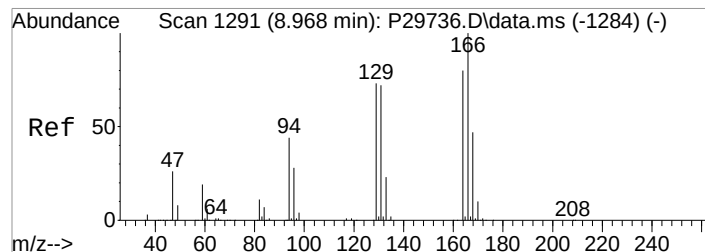
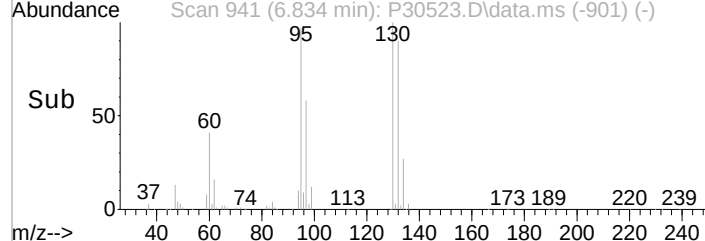
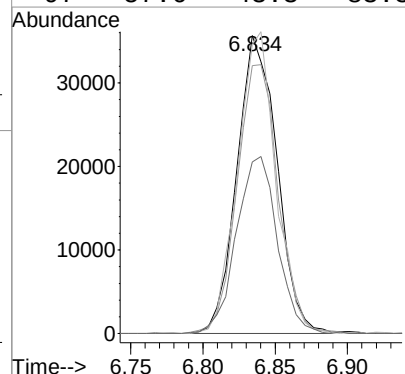




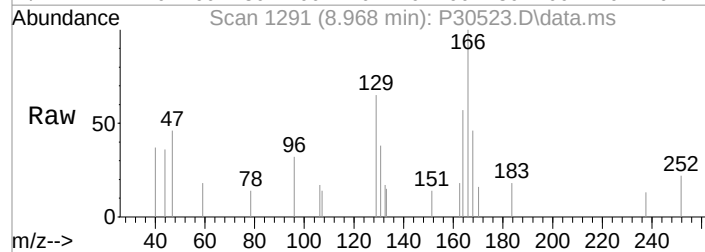
#54
 Trichloroethene
 Concen: 20.95 ppb
 RT: 6.834 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: P30523.D
 Acq: 1 Oct 2019 3:27 pm



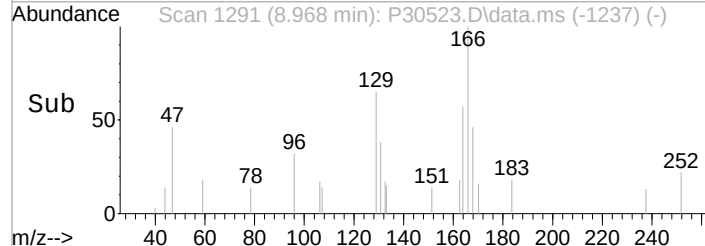
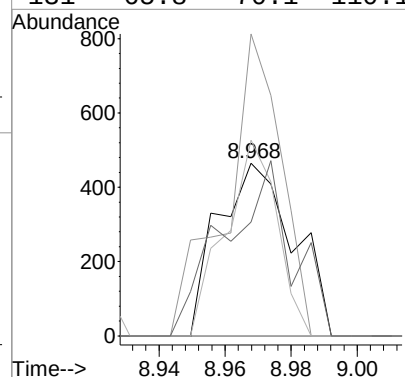
Tgt Ion	130	132	95	97
Ratio	100	89.9	97.0	57.6
Resp	68805	71.1	79.6	43.3
Lower				
Upper		111.1	119.6	83.3



#72
 Tetrachloroethene
 Concen: 0.29 ppb
 RT: 8.968 min Scan# 1291
 Delta R.T. -0.000 min
 Lab File: P30523.D
 Acq: 1 Oct 2019 3:27 pm



Tgt Ion	164	166	129	131
Ratio	100	174.8	113.3	65.8
Resp	741	104.8	70.6	70.1
Lower				
Upper		144.8#	110.6#	110.1#



Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30439.D
 Acq On : 29 Sep 2019 5:15 pm
 Operator : K.Ruest
 Sample : R1909228-008|1.0
 Misc : VERINA 8260 T4
 ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 14:15:30 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

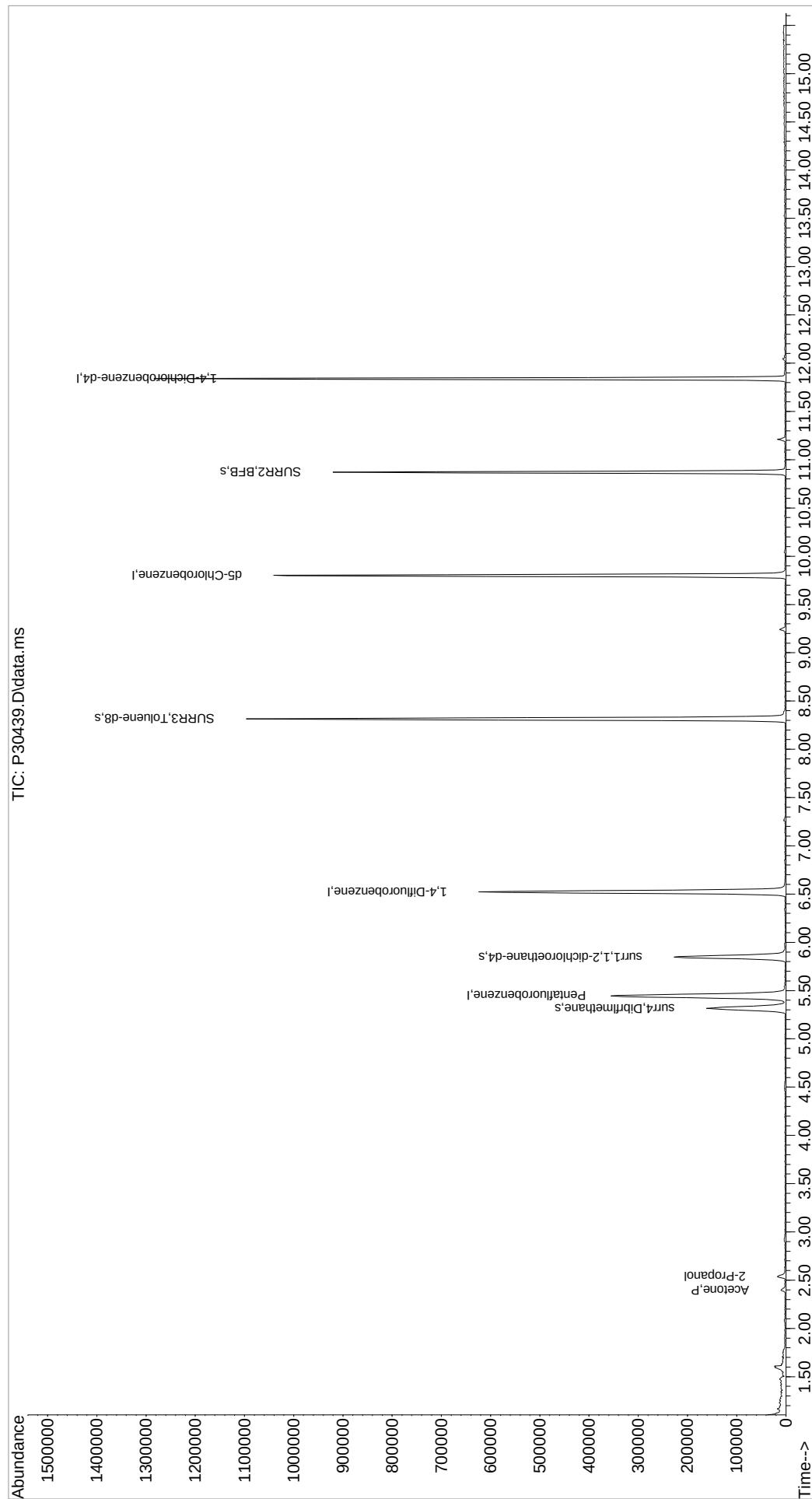
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	340098	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	535745	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	468479	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	245221	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	129598	45.64	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	91.28%		
48) surr1,1,2-dichloroetha...	5.846	65	185593	47.24	ppb	-0.01
Spiked Amount 50.000	Range 73 - 125		Recovery =	94.48%		
65) SURR3,Toluene-d8	8.315	98	651086	48.71	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	97.42%		
70) SURR2,BFB	10.870	95	238850	45.93	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	91.86%		
Target Compounds						Qvalue
15) Acetone	2.396	43	8476	3.06	ppb	97
16) 2-Propanol	2.536	45	19906	31.63	ppb	96

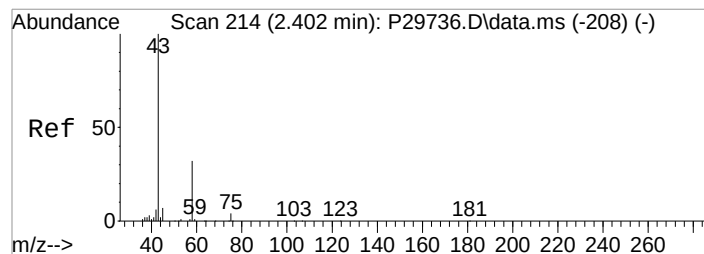
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30439.D
Acq On : 29 Sep 2019 5:15 pm
Operator : K.Ruest
Sample : R1909228-008|1.0
Misc : VERINA 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSV0A-12

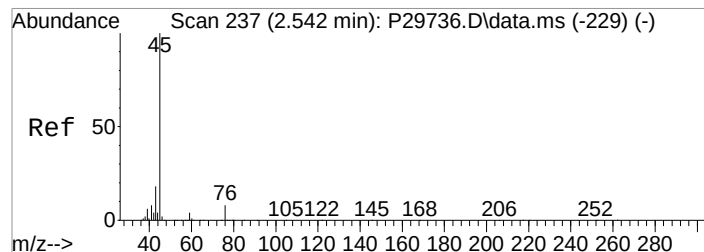
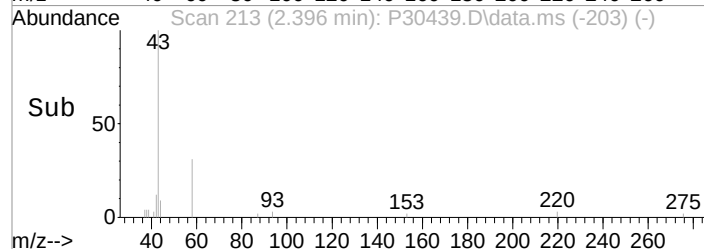
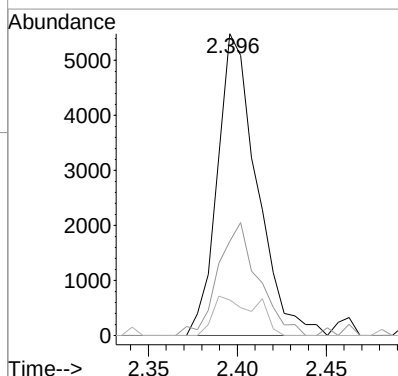
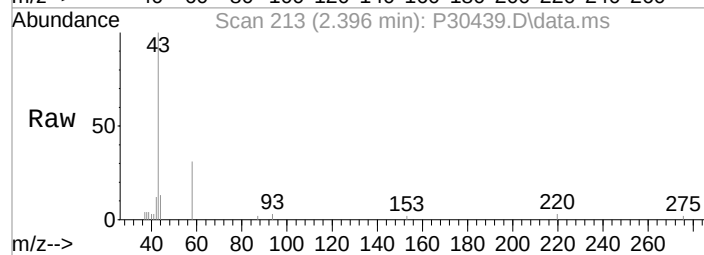
Quant Time: Oct 01 14:15:30 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration





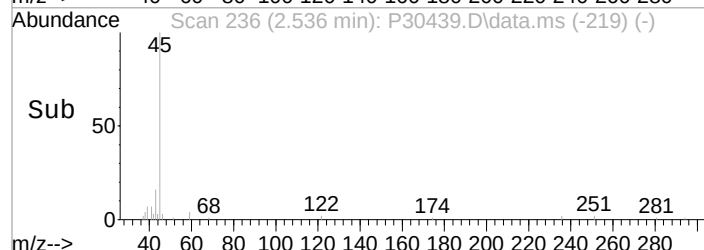
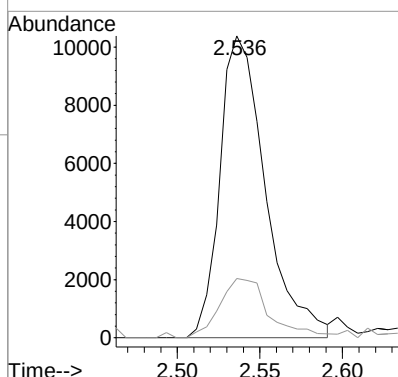
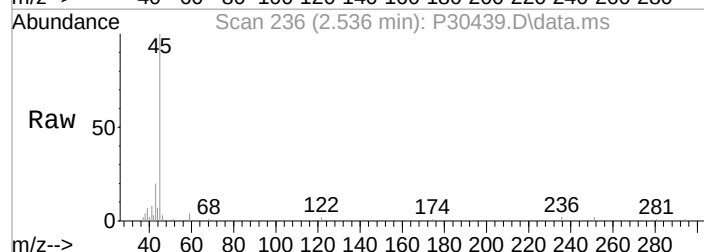
#15
 Acetone
 Concen: 3.06 ppb
 RT: 2.396 min Scan# 213
 Delta R.T. -0.012 min
 Lab File: P30439.D
 Acq: 29 Sep 2019 5:15 pm

Tgt Ion: 43 Resp: 8476
 Ion Ratio Lower Upper
 43 100
 58 31.1 11.7 51.7
 42 11.8 0.0 26.5



#16
 2-Propanol
 Concen: 31.63 ppb
 RT: 2.536 min Scan# 236
 Delta R.T. -0.006 min
 Lab File: P30439.D
 Acq: 29 Sep 2019 5:15 pm

Tgt Ion: 45 Resp: 19906
 Ion Ratio Lower Upper
 45 100
 43 19.6 0.0 37.7



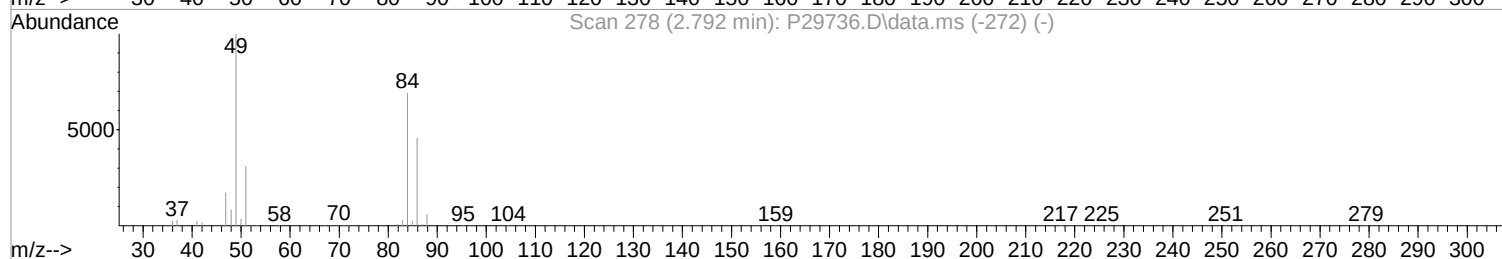
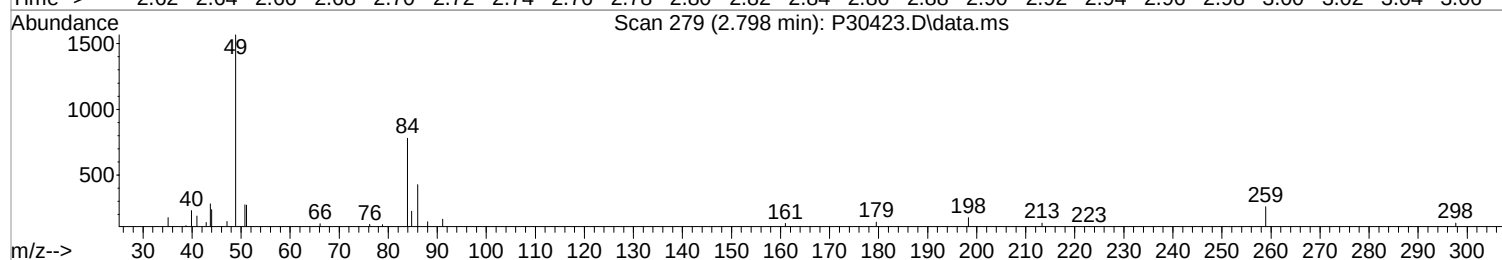
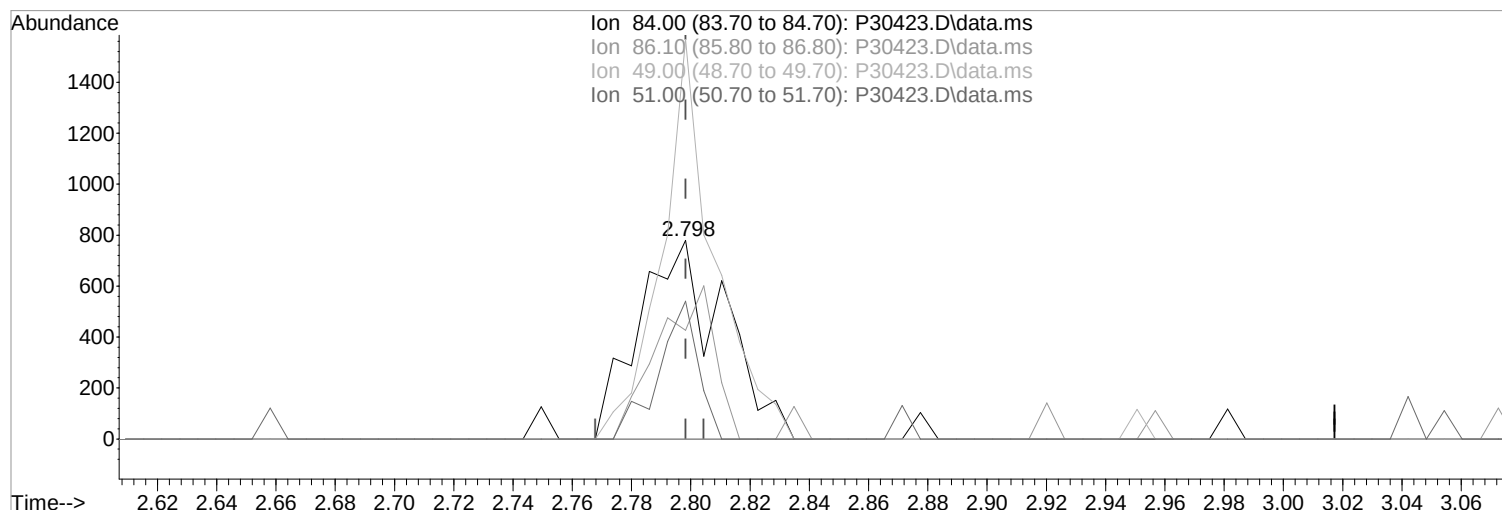
Quantitation Report (Qedit)

1st *FR* 09/29/19
2nd *FR* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30423.D
Acq On : 29 Sep 2019 11:27 am
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 11:43:52 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30423.D\data.ms

(22) Methylene Chloride (P)

2.798min (-0.000) 0.37 ppb m

response 1568

Ion	Exp%	Act%
84.00	100	100
86.10	66.10	54.81
49.00	144.90	201.28#
51.00	44.70	34.92

Manual Integration:

After

Split Peak

09/29/19

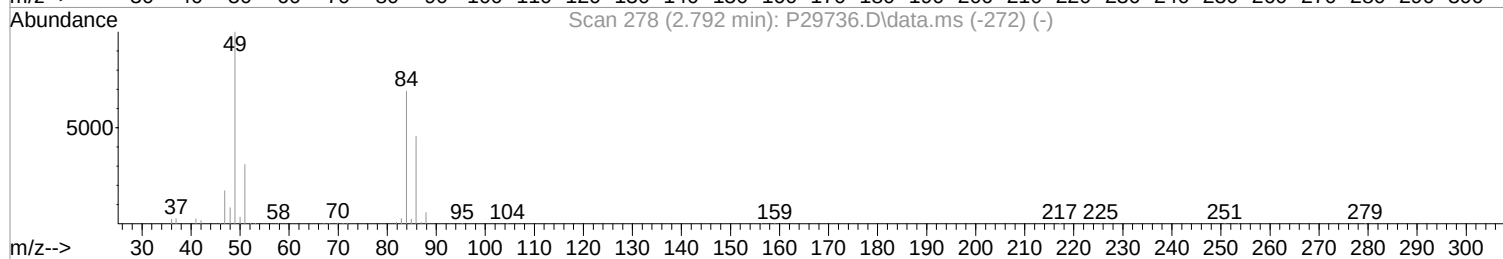
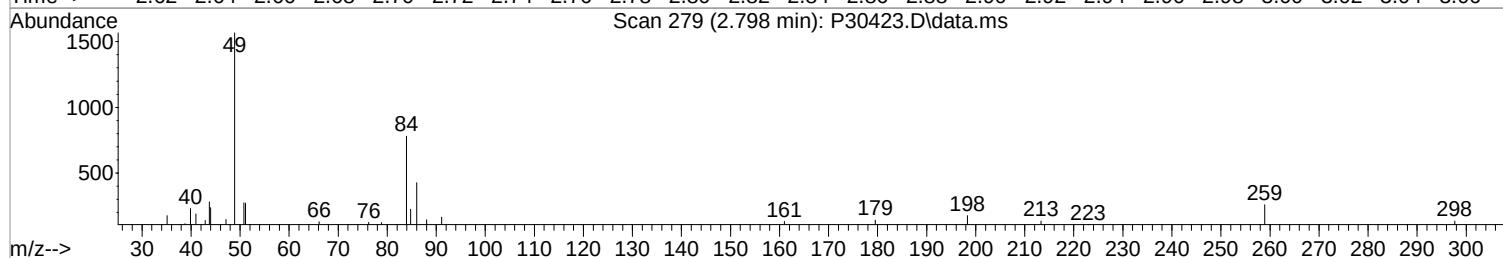
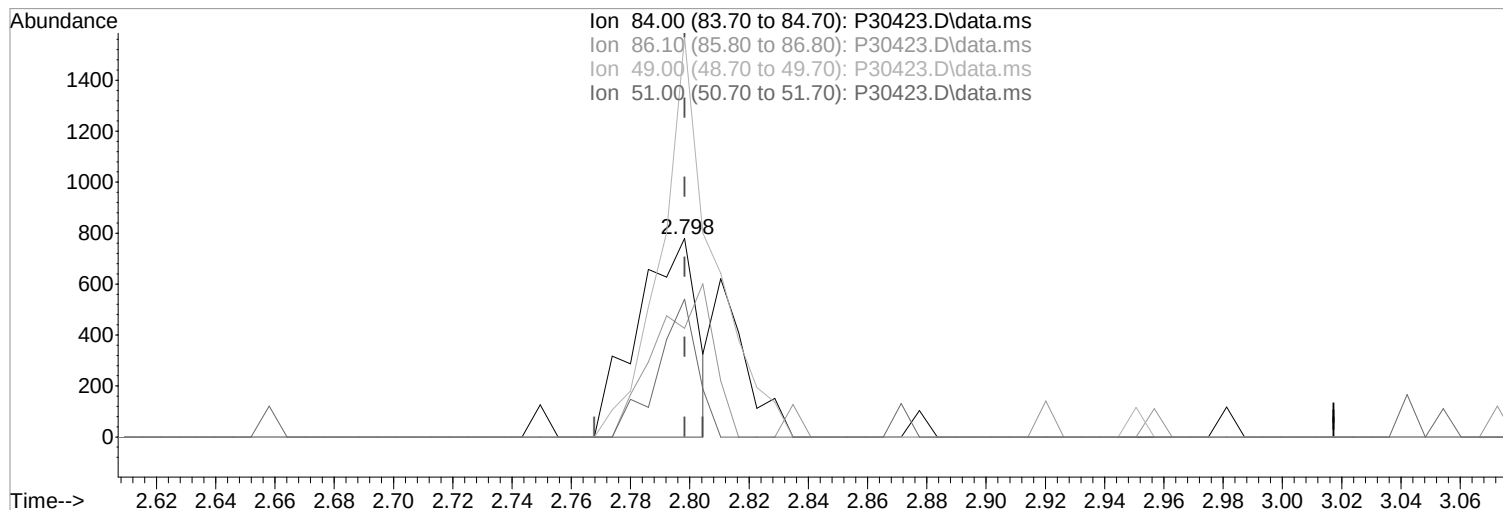
Quantitation Report (Qedit)

1st *FR* 09/29/19
2nd *FR* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30423.D
Acq On : 29 Sep 2019 11:27 am
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 11:43:52 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30423.D\data.ms

(22) Methylene Chloride (P)

Manual Integration:

2.798min (-0.000) 0.26 ppb

Before

response 1095

Ion	Exp%	Act%
84.00	100	100
86.10	66.10	54.81
49.00	144.90	201.28#
51.00	44.70	69.45#

09/29/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30423.D
 Acq On : 29 Sep 2019 11:27 am
 Operator : K.Ruest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 11:44:39 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

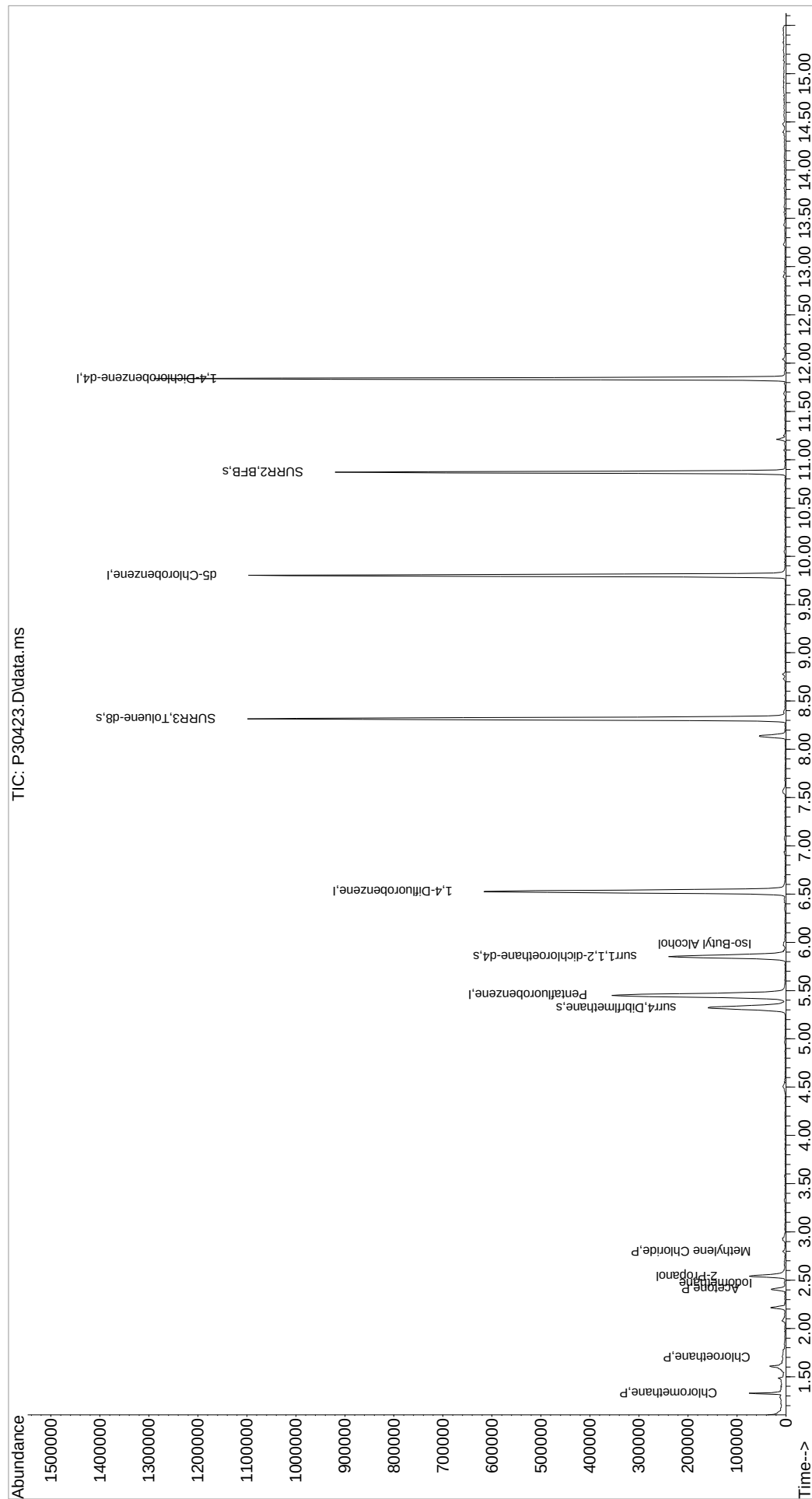
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

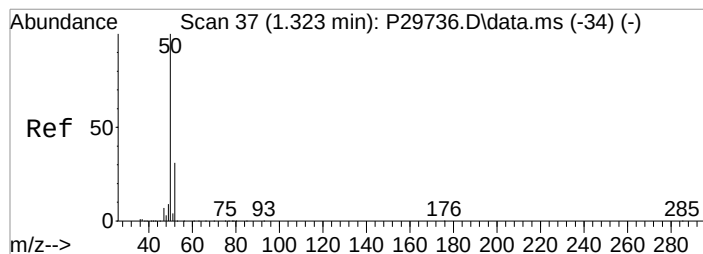
Internal Standards						
1) Pentafluorobenzene	5.456	168	334673	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	543926	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	479529	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	252097	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	133899	46.45	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	92.90%		
48) surr1,1,2-dichloroetha...	5.853	65	192138	48.17	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	96.34%		
65) SURR3,Toluene-d8	8.315	98	673506	49.63	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	99.26%		
70) SURR2,BFB	10.870	95	246825	46.75	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	93.50%		
Target Compounds						Qvalue
3) Chloromethane	1.329	50	35253	5.53	ppb	95
6) Chloroethane	1.707	64	1058	0.30	ppb	# 19
15) Acetone	2.408	43	31674	11.63	ppb	93
16) 2-Propanol	2.542	45	88879	143.50	ppb	92
17) Iodomethane	2.469	142	1382	1.46	ppb	89
22) Methylene Chloride	2.798	84	1568m	0.37	ppb	
39) Tetrahydrofuran	4.993	42	796	Below	Cal	86
51) Iso-Butyl Alcohol	5.981	43	3651	7.84	ppb	81

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

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30423.D
Acq On : 29 Sep 2019 11:27 am
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1
Inst : MSV0A-12

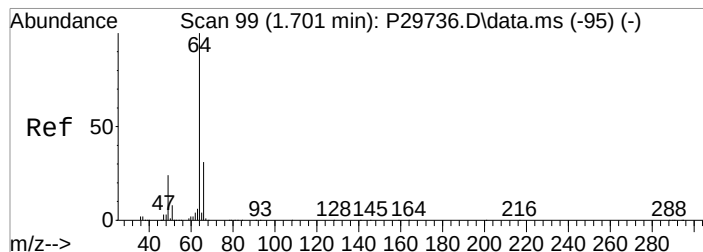
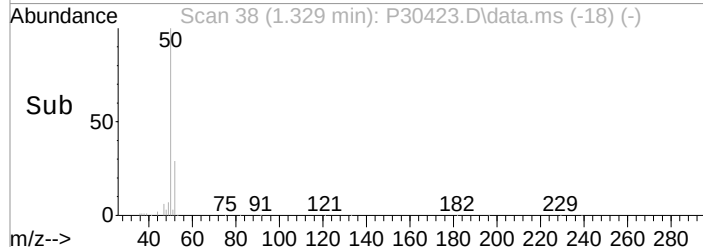
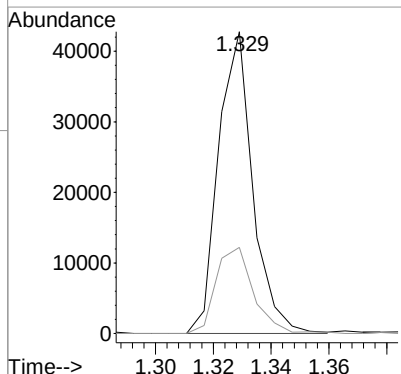
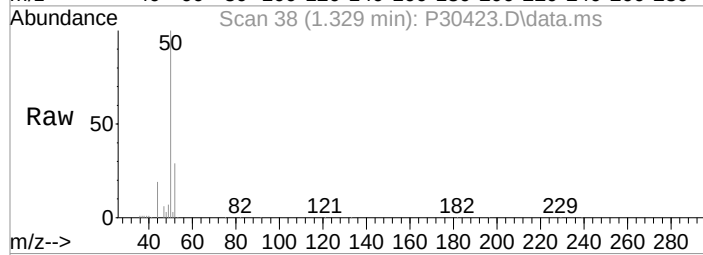
Quant Time: Sep 29 11:44:39 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration





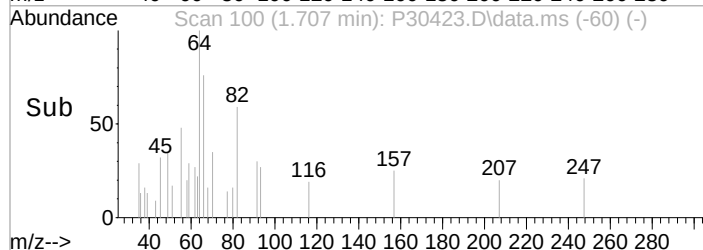
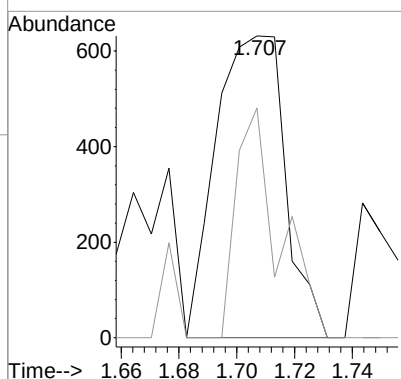
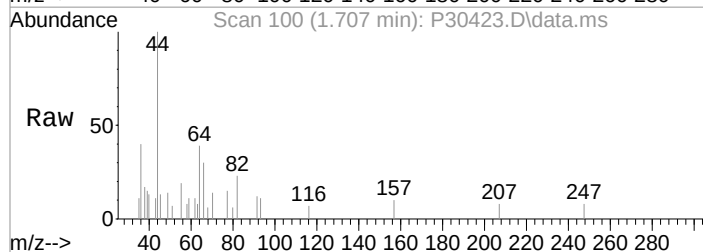
#3
 Chloromethane
 Concen: 5.53 ppb
 RT: 1.329 min Scan# 38
 Delta R.T. 0.006 min
 Lab File: P30423.D
 Acq: 29 Sep 2019 11:27 am

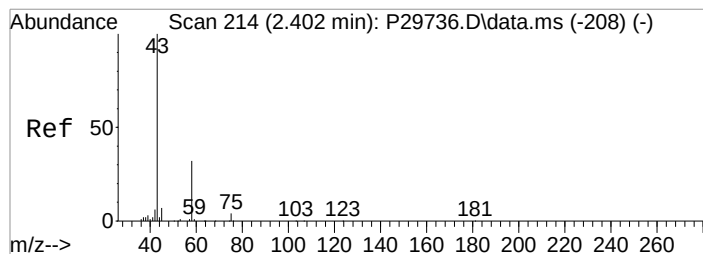
Tgt Ion: 50 Resp: 35253
 Ion Ratio Lower Upper
 50 100
 52 28.6 11.2 51.2



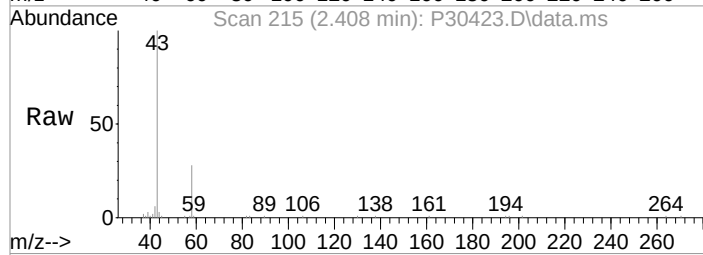
#6
 Chloroethane
 Concen: 0.30 ppb
 RT: 1.707 min Scan# 100
 Delta R.T. -0.000 min
 Lab File: P30423.D
 Acq: 29 Sep 2019 11:27 am

Tgt Ion: 64 Resp: 1058
 Ion Ratio Lower Upper
 64 100
 66 76.1 11.4 51.4#

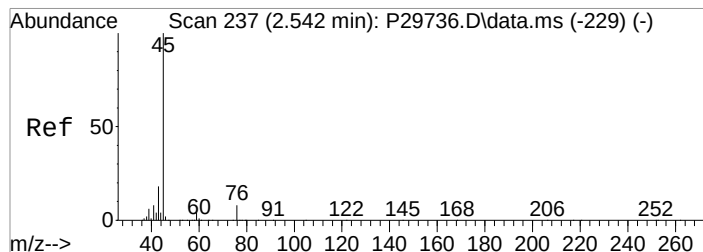
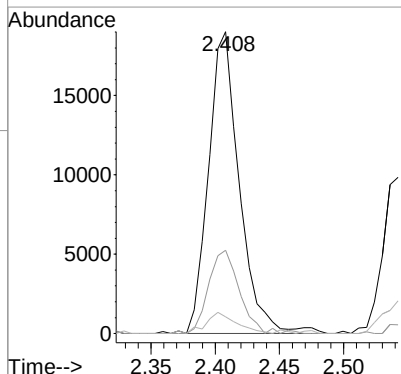
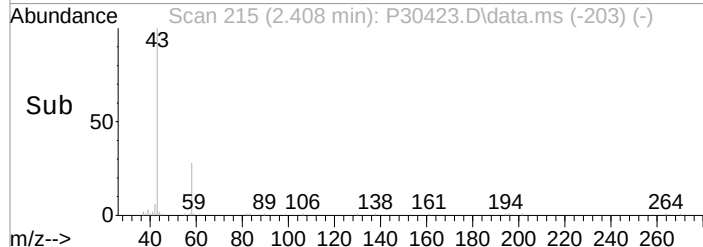




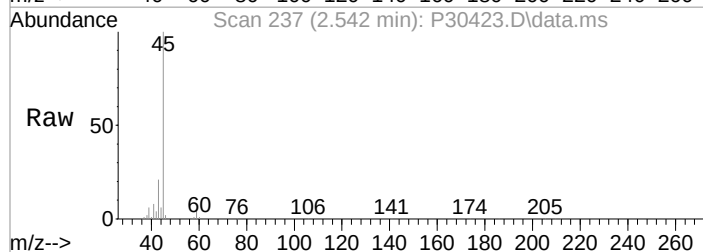
#15
 Acetone
 Concen: 11.63 ppb
 RT: 2.408 min Scan# 215
 Delta R.T. -0.000 min
 Lab File: P30423.D
 Acq: 29 Sep 2019 11:27 am



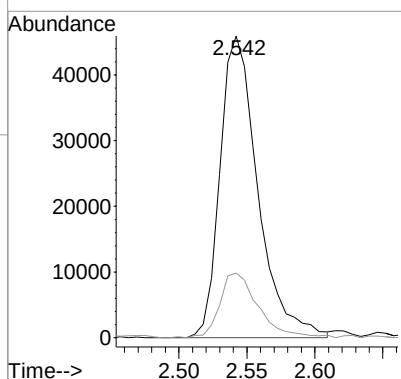
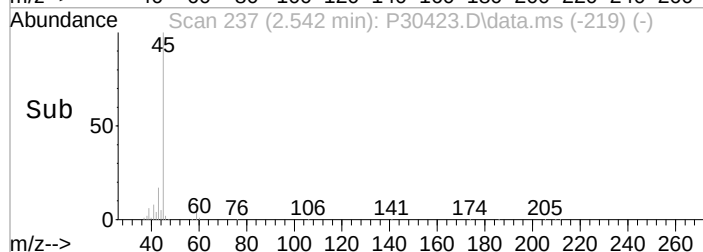
Tgt Ion: 43 Resp: 31674
 Ion Ratio Lower Upper
 43 100
 58 27.6 11.7 51.7
 42 5.5 0.0 26.5

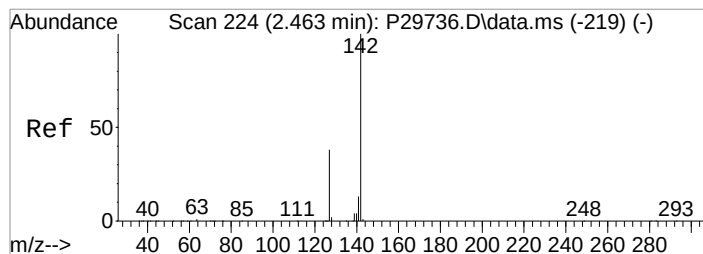


#16
 2-Propanol
 Concen: 143.50 ppb
 RT: 2.542 min Scan# 237
 Delta R.T. -0.000 min
 Lab File: P30423.D
 Acq: 29 Sep 2019 11:27 am

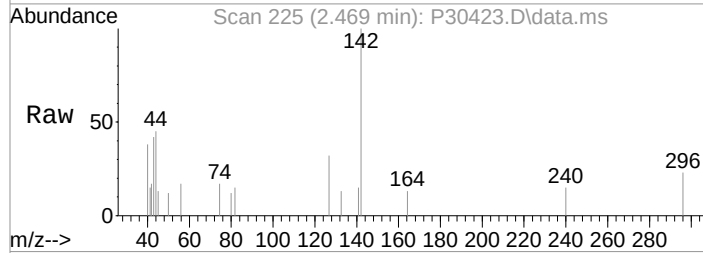


Tgt Ion: 45 Resp: 88879
 Ion Ratio Lower Upper
 45 100
 43 21.4 0.0 37.7

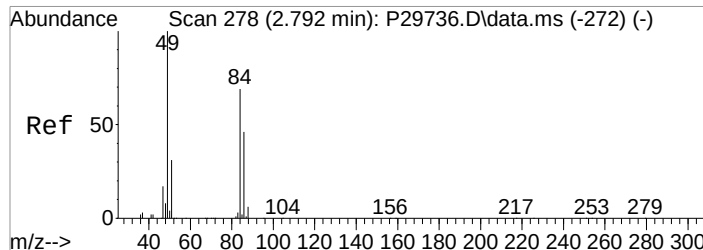
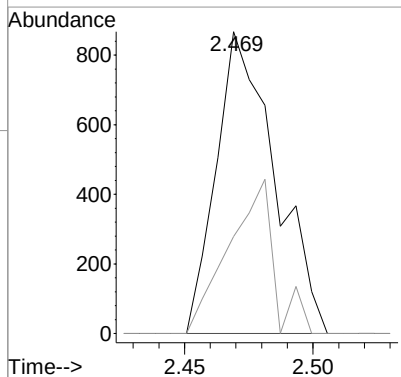
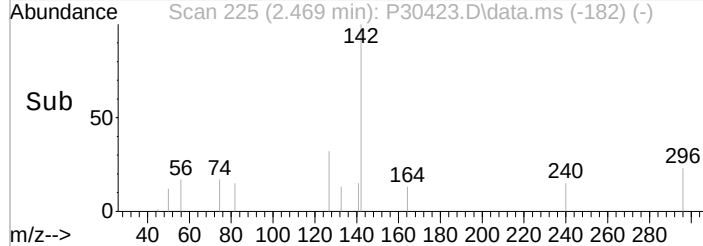




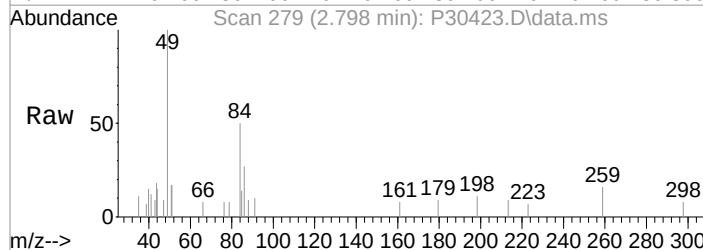
#17
Iodomethane
Concen: 1.46 ppb
RT: 2.469 min Scan# 225
Delta R.T. 0.000 min
Lab File: P30423.D
Acq: 29 Sep 2019 11:27 am



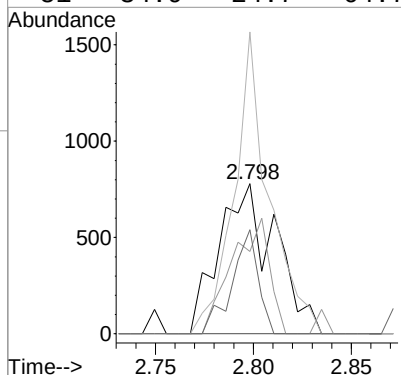
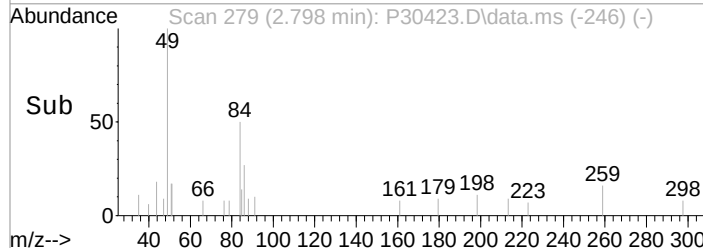
Tgt Ion: 142 Resp: 1382
Ion Ratio Lower Upper
142 100
127 32.1 18.6 58.6

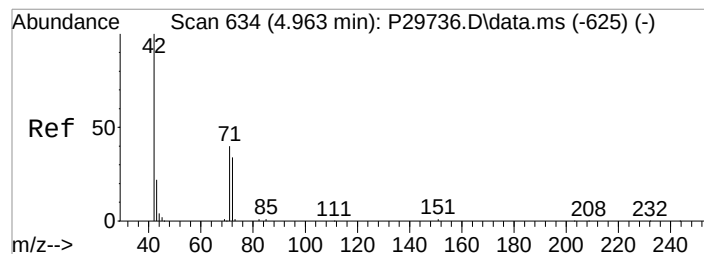


#22
Methylene Chloride
Concen: 0.37 ppb m
RT: 2.798 min Scan# 279
Delta R.T. -0.000 min
Lab File: P30423.D
Acq: 29 Sep 2019 11:27 am



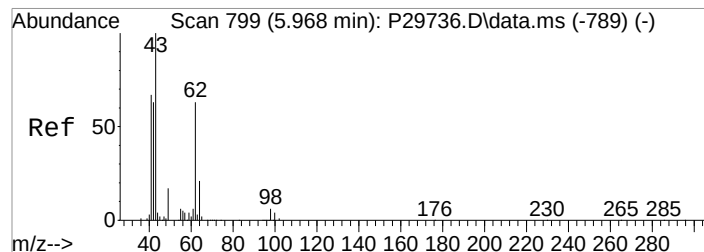
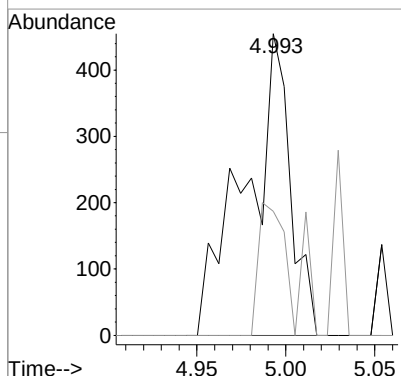
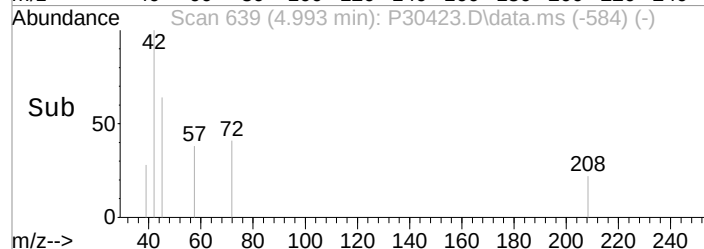
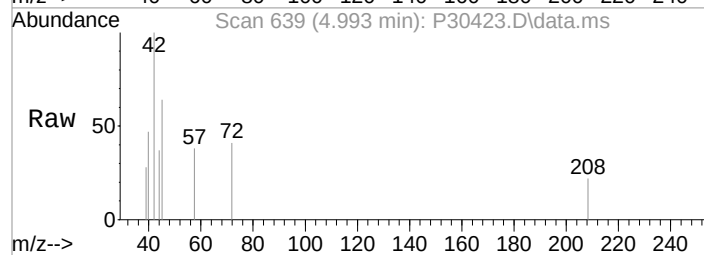
Tgt Ion: 84 Resp: 1568
Ion Ratio Lower Upper
84 100
86 54.8 46.1 86.1
49 201.3 124.9 164.9#
51 34.9 24.7 64.7





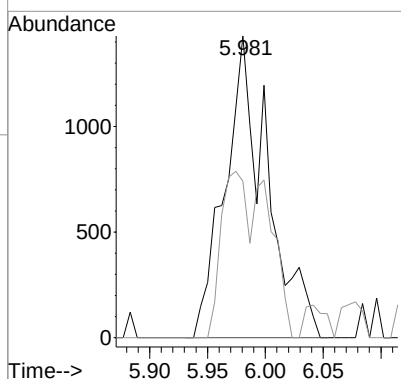
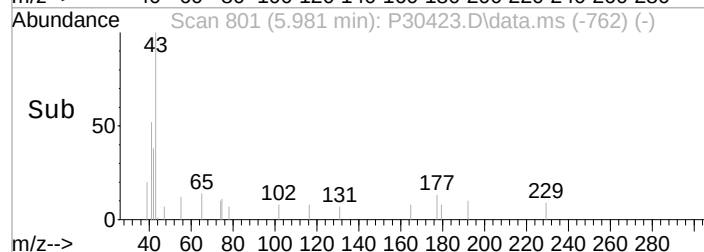
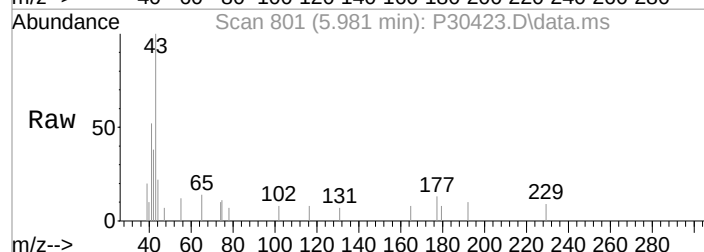
#39
 Tetrahydrofuran
 Concen: Below Cal
 RT: 4.993 min Scan# 639
 Delta R.T. 0.019 min
 Lab File: P30423.D
 Acq: 29 Sep 2019 11:27 am

Tgt Ion: 42 Resp: 796
 Ion Ratio Lower Upper
 42 100
 72 41.1 13.2 53.2



#51
 Iso-Butyl Alcohol
 Concen: 7.84 ppb
 RT: 5.981 min Scan# 801
 Delta R.T. -0.000 min
 Lab File: P30423.D
 Acq: 29 Sep 2019 11:27 am

Tgt Ion: 43 Resp: 3651
 Ion Ratio Lower Upper
 43 100
 41 51.9 47.1 87.1



LSC Area Percent Report

1st *JK* 09/29/19
2nd *FJ* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30423.D
Acq On : 29 Sep 2019 11:27 am
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration Parameters: INTP90.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0.1

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: P30423.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.329	35	38	41	rBV	65392	55234	3.12%	0.570%
2	1.609	76	84	90	rBV4	25866	44424	2.51%	0.458%
3	2.213	179	183	188	rVB	29013	42938	2.42%	0.443%
4	2.408	210	215	221	rBV	29182	50330	2.84%	0.519%
5	2.542	228	237	249	rBV	73025	140302	7.92%	1.447%
6	5.322	683	693	704	rBV	156922	426754	24.10%	4.403%
7	5.450	704	714	729	rVB2	352532	942297	53.22%	9.721%
8	5.853	770	780	791	rBV2	238278	554127	31.29%	5.717%
9	6.523	882	890	902	rBV	614219	1266128	71.50%	13.062%
10	8.139	1149	1155	1162	rBV	53125	103435	5.84%	1.067%
11	8.315	1177	1184	1194	rBV	1097644	1770689	100.00%	18.268%
12	9.803	1421	1428	1441	rVB	1095204	1525919	86.18%	15.743%
13	10.870	1596	1603	1610	rBV	918670	1160569	65.54%	11.973%
14	11.211	1655	1659	1664	rBV2	18236	23696	1.34%	0.244%
15	11.839	1756	1762	1769	rBV	1287962	1586092	89.57%	16.363%

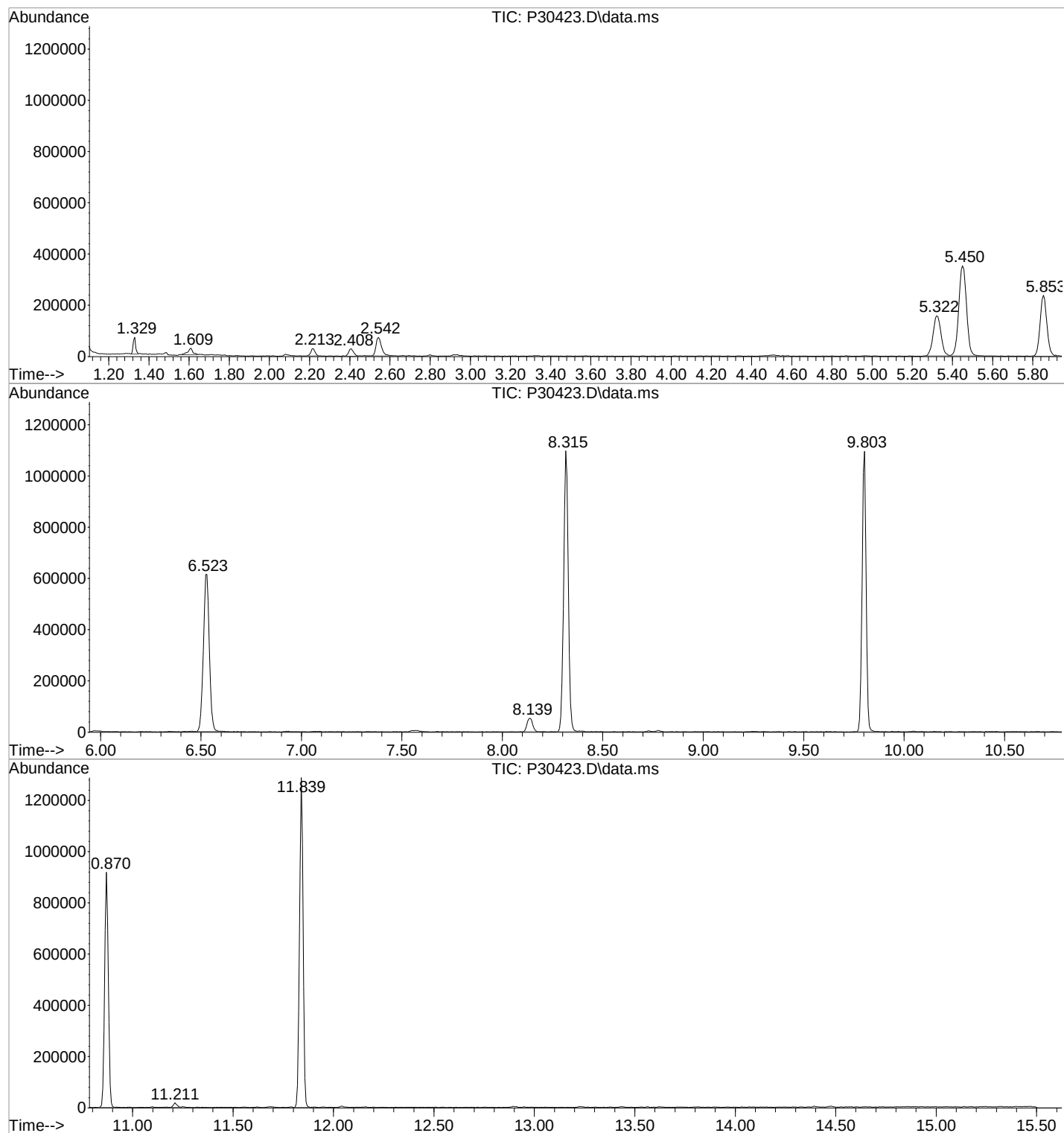
Sum of corrected areas: 9692934

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30423.D
Acq On : 29 Sep 2019 11:27 am
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

1st *MR* 09/29/19
2nd *FJ* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30423.D
Acq On : 29 Sep 2019 11:27 am
Operator : K.Ruestt
Sample : MBLK-FP Inst : MSVOA-122
Misc :
ALS Vial : 3 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30515.D
 Acq On : 1 Oct 2019 12:24 pm
 Operator : K.Ruest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 12:50:47 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

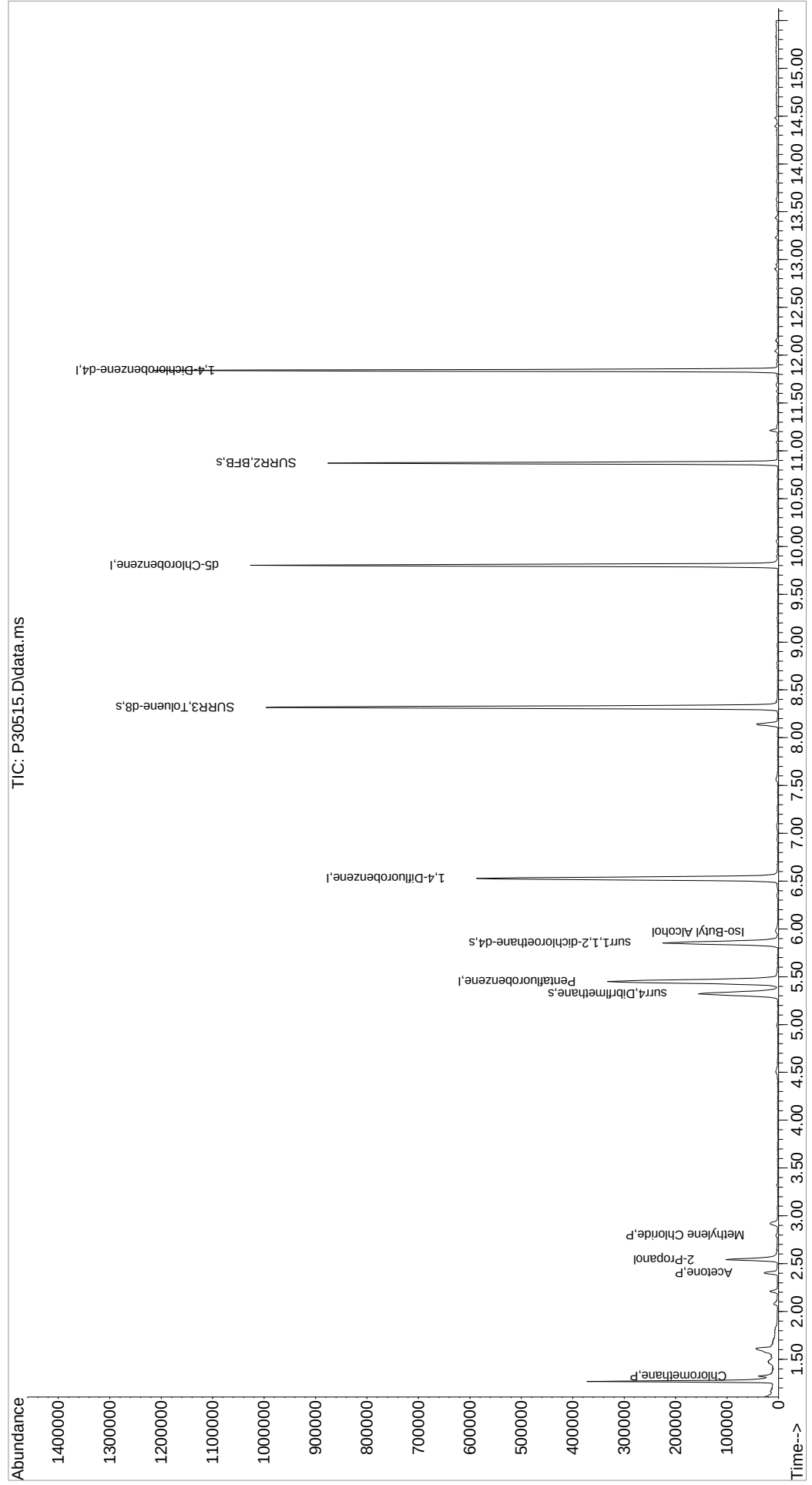
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

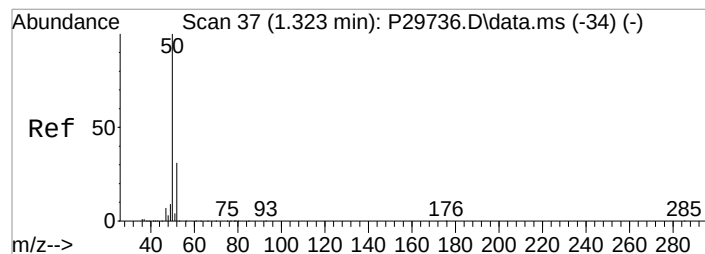
Internal Standards						
1) Pentafluorobenzene	5.450	168	319027	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	508142	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	446639	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	231510	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	126884	47.12	ppb	0.00
Spiked Amount 50.000	Range	89 - 119	Recovery	=	94.24%	
48) surr1,1,2-dichloroetha...	5.853	65	180786	48.51	ppb	0.00
Spiked Amount 50.000	Range	73 - 125	Recovery	=	97.02%	
65) SURR3,Toluene-d8	8.316	98	619832	48.89	ppb	0.00
Spiked Amount 50.000	Range	87 - 121	Recovery	=	97.78%	
70) SURR2,BFB	10.870	95	234321	47.50	ppb	0.00
Spiked Amount 50.000	Range	85 - 122	Recovery	=	95.00%	
Target Compounds						Qvalue
3) Chloromethane	1.323	50	15473	2.55	ppb	90
15) Acetone	2.402	43	30496	11.75	ppb	98
16) 2-Propanol	2.542	45	115057	194.88	ppb	90
22) Methylene Chloride	2.798	84	1254	0.31	ppb	# 66
51) Iso-Butyl Alcohol	5.968	43	3910	8.99	ppb	90

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

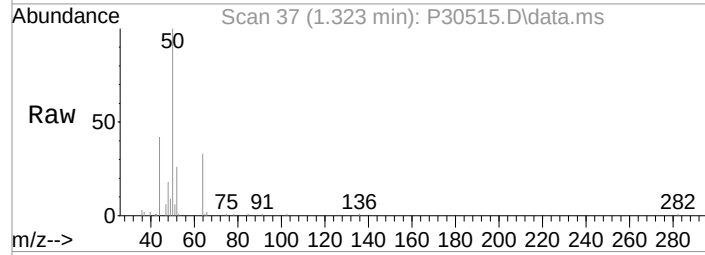
Data Path : I:\ACQDATA\msvoa12\Data\1001119\
 Data File : P30515.D
 Acq On : 1 Oct 2019 12:24 pm
 Operator : K.Ruest
 Sample : MBLK-FP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1
 Inst : MSV0A-12

Quant Time: Oct 01 12:50:47 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W0911119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

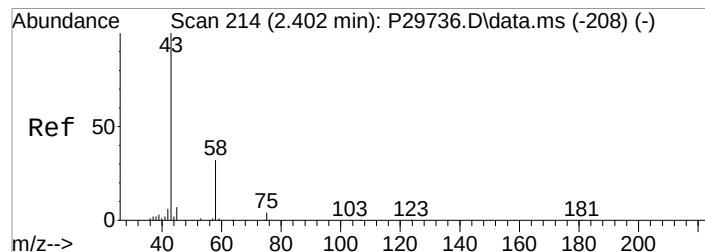
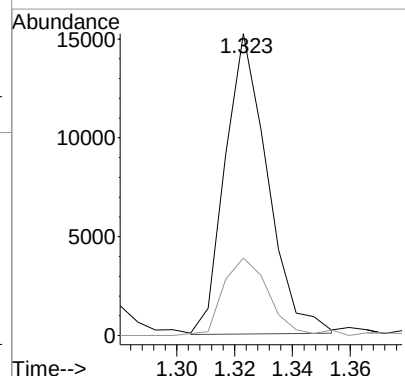
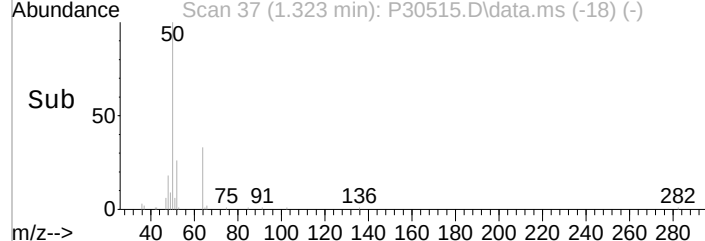




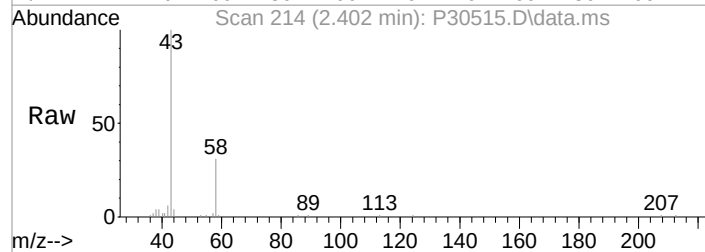
#3
 Chloromethane
 Concen: 2.55 ppb
 RT: 1.323 min Scan# 37
 Delta R.T. -0.000 min
 Lab File: P30515.D
 Acq: 1 Oct 2019 12:24 pm



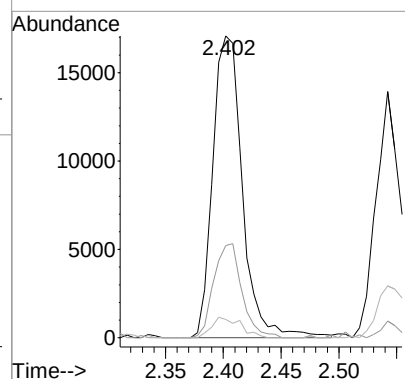
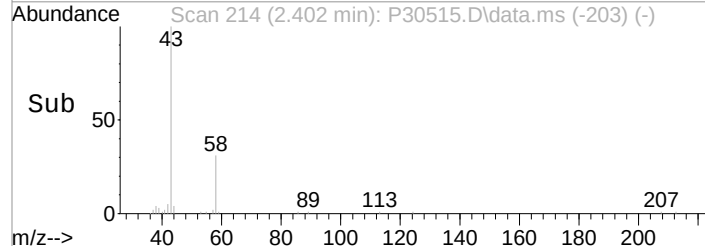
Tgt Ion: 50 Resp: 15473
 Ion Ratio Lower Upper
 50 100
 52 25.7 11.2 51.2

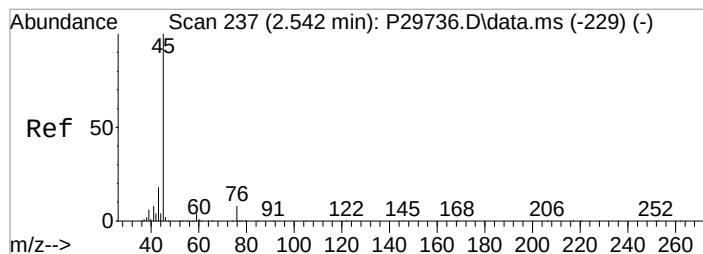


#15
 Acetone
 Concen: 11.75 ppb
 RT: 2.402 min Scan# 214
 Delta R.T. -0.006 min
 Lab File: P30515.D
 Acq: 1 Oct 2019 12:24 pm

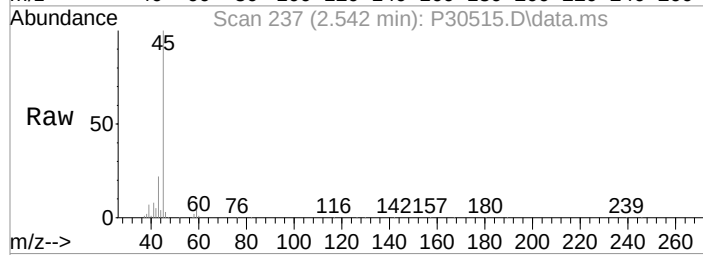


Tgt Ion: 43 Resp: 30496
 Ion Ratio Lower Upper
 43 100
 58 30.6 11.7 51.7
 42 6.1 0.0 26.5

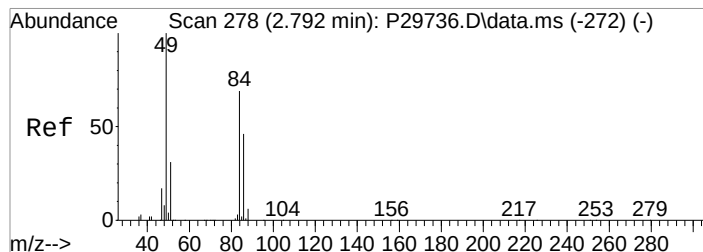
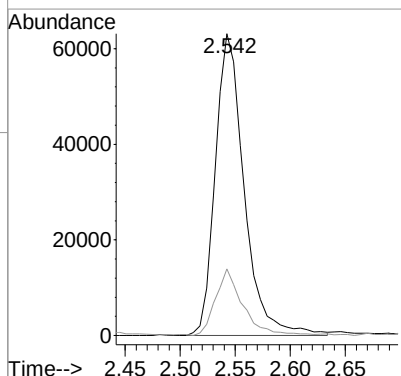
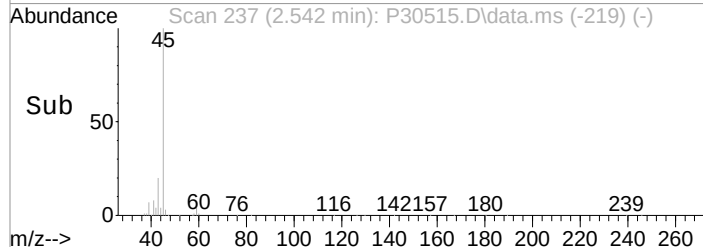




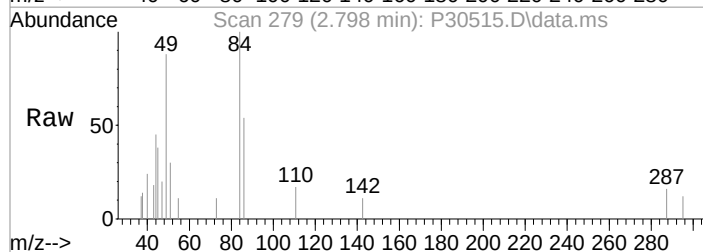
#16
 2-Propanol
 Concen: 194.88 ppb
 RT: 2.542 min Scan# 237
 Delta R.T. -0.000 min
 Lab File: P30515.D
 Acq: 1 Oct 2019 12:24 pm



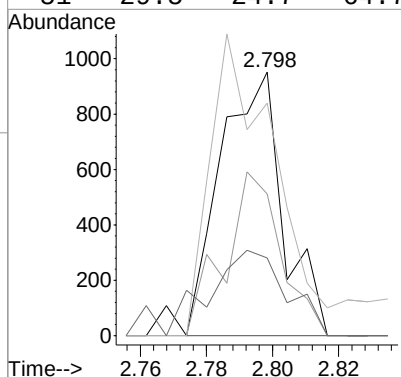
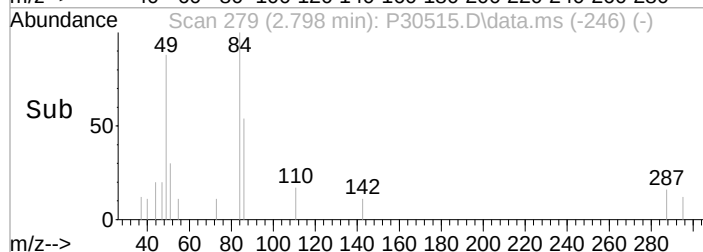
Tgt Ion: 45 Resp: 115057
 Ion Ratio Lower Upper
 45 100
 43 22.0 0.0 37.7

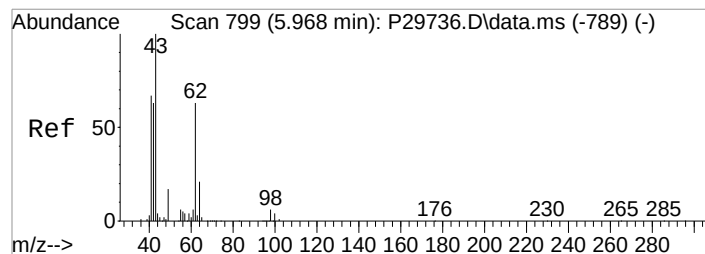


#22
 Methylene Chloride
 Concen: 0.31 ppb
 RT: 2.798 min Scan# 279
 Delta R.T. -0.000 min
 Lab File: P30515.D
 Acq: 1 Oct 2019 12:24 pm

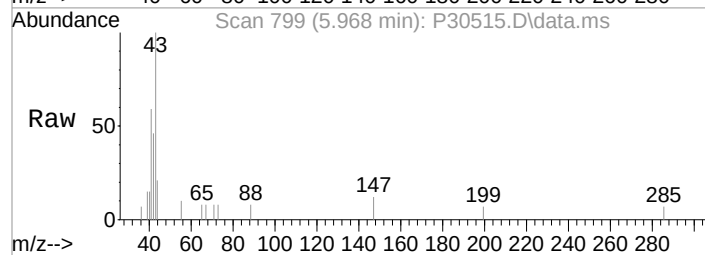


Tgt Ion: 84 Resp: 1254
 Ion Ratio Lower Upper
 84 100
 86 53.8 46.1 86.1
 49 88.2 124.9 164.9#
 51 29.5 24.7 64.7

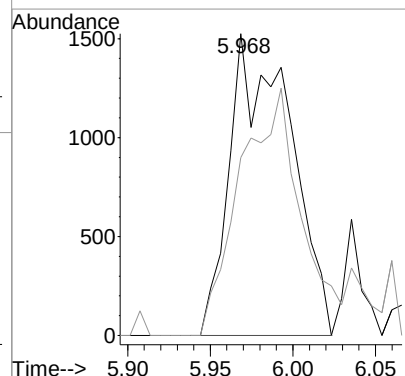
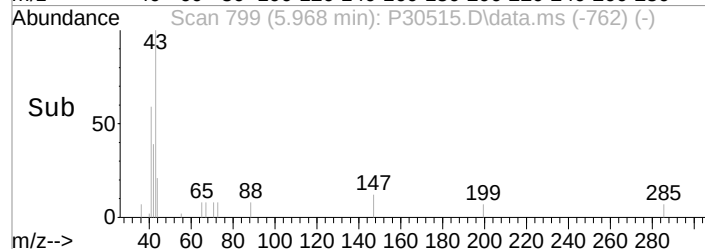




#51
 Iso-Butyl Alcohol
 Concen: 8.99 ppb
 RT: 5.968 min Scan# 799
 Delta R.T. -0.012 min
 Lab File: P30515.D
 Acq: 1 Oct 2019 12:24 pm



Tgt Ion: 43 Resp: 3910
 Ion Ratio Lower Upper
 43 100
 41 59.0 47.1 87.1



Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30515.D
Acq On : 1 Oct 2019 12:24 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration Parameters: INTP90.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0.1

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: P30515.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.268	25	28	35	rBV	360362	375738	22.92%	3.959%
2	1.323	35	37	43	rVB	27944	32622	1.99%	0.344%
3	1.573	73	78	79	rBV2	15748	18801	1.15%	0.198%
4	1.610	79	84	88	rVB2	30274	64814	3.95%	0.683%
5	2.213	177	183	188	rBV	14763	23615	1.44%	0.249%
6	2.402	208	214	220	rBV	26726	46459	2.83%	0.490%
7	2.542	230	237	246	rBV	101112	177664	10.84%	1.872%
8	2.920	291	299	308	rBV2	15151	35889	2.19%	0.378%
9	5.322	683	693	704	rBV	154722	414372	25.27%	4.366%
10	5.450	704	714	724	rVV2	329959	874011	53.31%	9.210%
11	5.853	771	780	790	rBV	224453	514359	31.37%	5.420%
12	6.529	882	891	902	rBV	585848	1185147	72.28%	12.488%
13	8.139	1148	1155	1164	rBV3	41238	81287	4.96%	0.857%
14	8.316	1178	1184	1193	rBV	994449	1639622	100.00%	17.277%
15	9.803	1421	1428	1439	rBV	1026060	1419964	86.60%	14.963%
16	10.870	1598	1603	1609	rBV	874503	1086811	66.28%	11.452%
17	11.211	1654	1659	1663	rBV4	16421	23030	1.40%	0.243%
18	11.839	1756	1762	1769	rBV	1215982	1475841	90.01%	15.551%

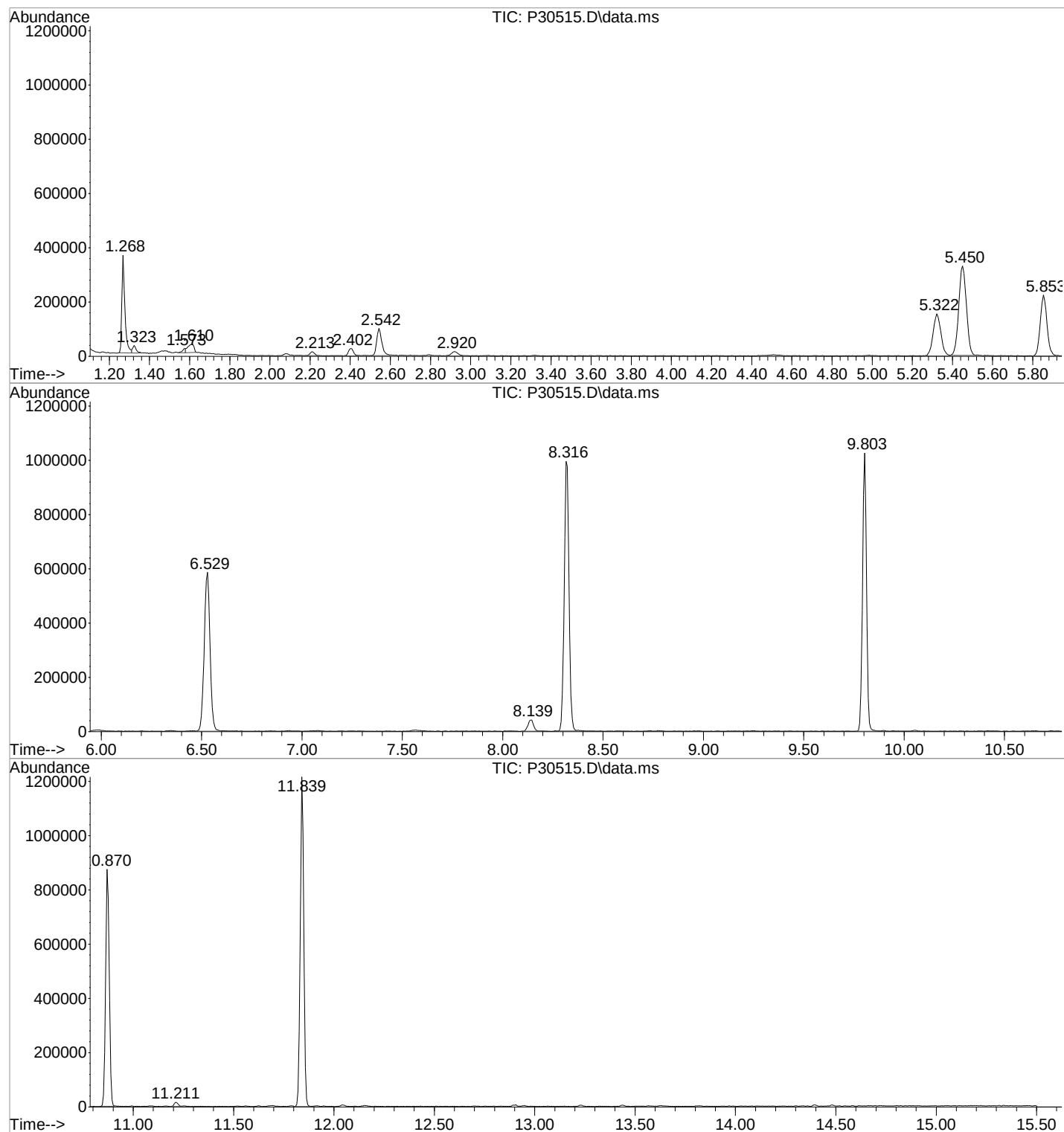
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Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30515.D
Acq On : 1 Oct 2019 12:24 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

1st *FR* 10/01/19
2nd *FR* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30515.D
Acq On : 1 Oct 2019 12:24 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

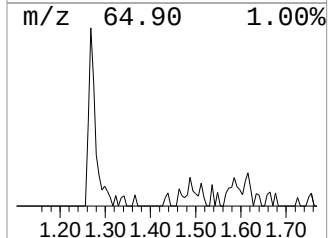
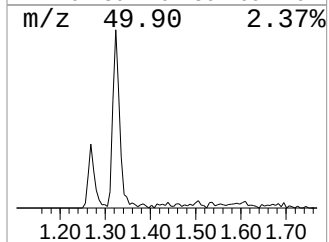
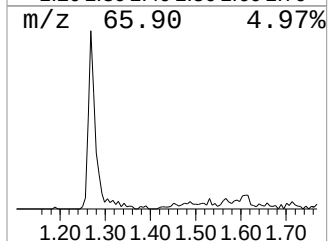
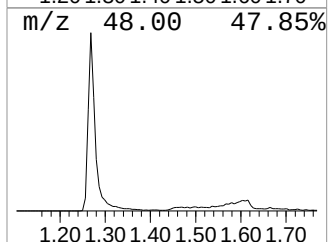
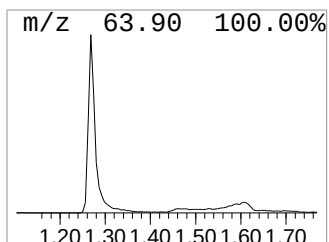
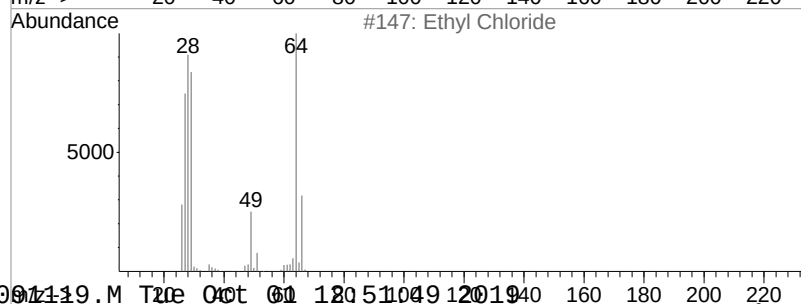
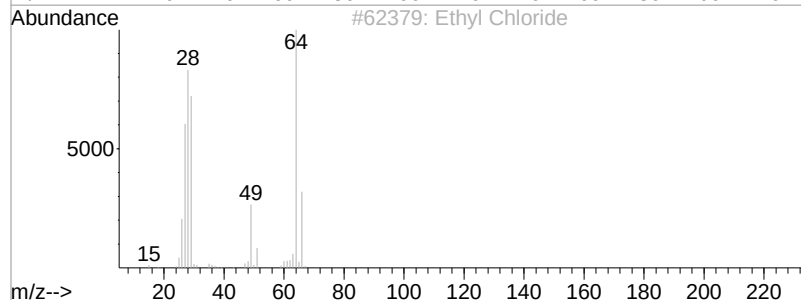
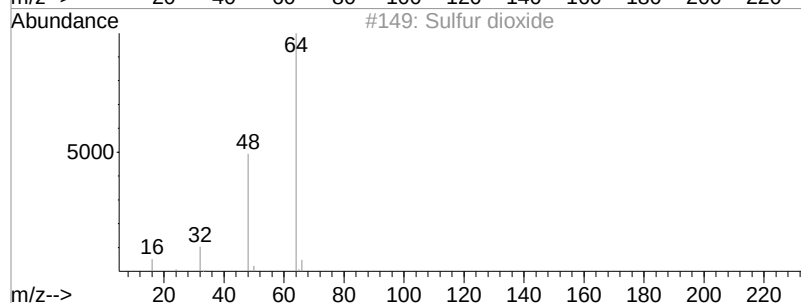
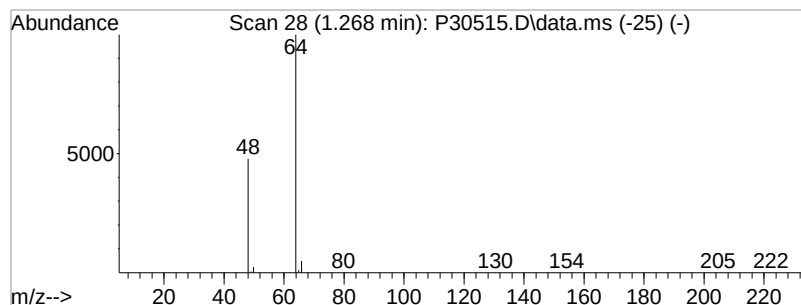
Inst : MSVOA-12

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
1.268	21.50 ppb	375738	Pentafluorobenzene	5.450	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
4	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	3
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	3



Tentatively Identified Compound (LSC) summary

1st *FR* 10/01/19
2nd *FR* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30515.D
Acq On : 1 Oct 2019 12:24 pm
Operator : K.Ruest
Sample : MBLK-FP
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

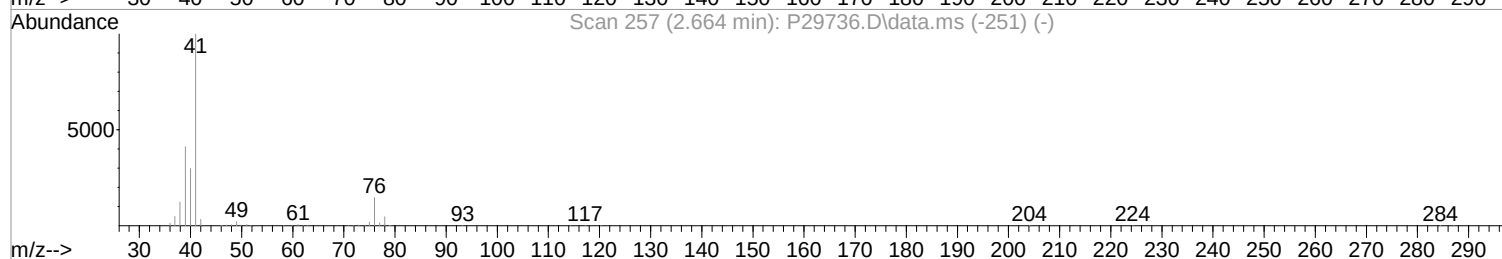
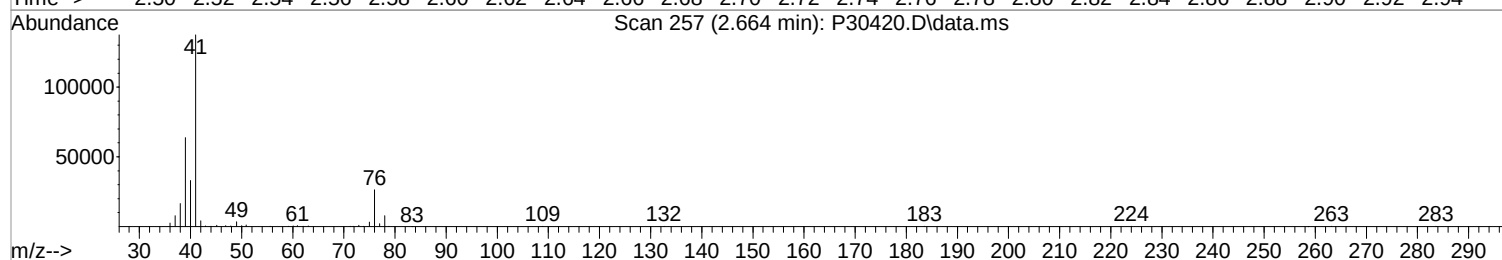
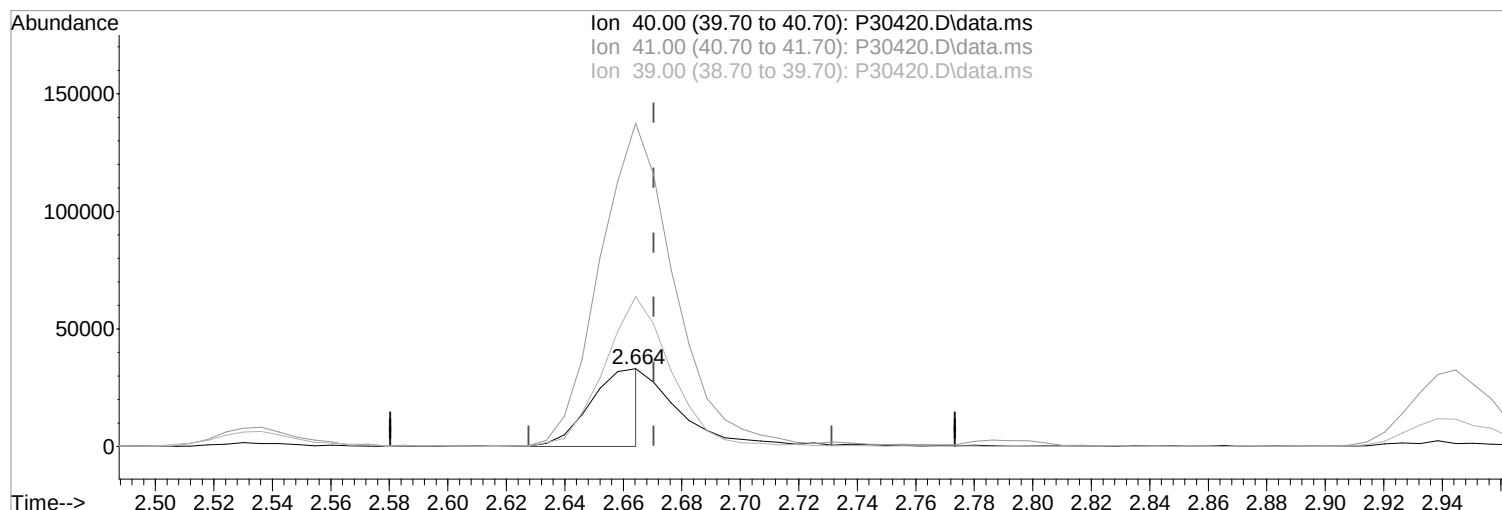
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Sulfur dioxide	1.268	21.5	ppb	375738	1	5.450	874011	50.0

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30420.D
Acq On : 29 Sep 2019 10:18 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:34:21 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30420.D\data.ms

(19) Acetonitrile

2.664min (-0.006) 105.55 ppb m

response 40304

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	415.57#
39.00	137.60	192.70#
0.00	0.00	0.00

Manual Integration:

After

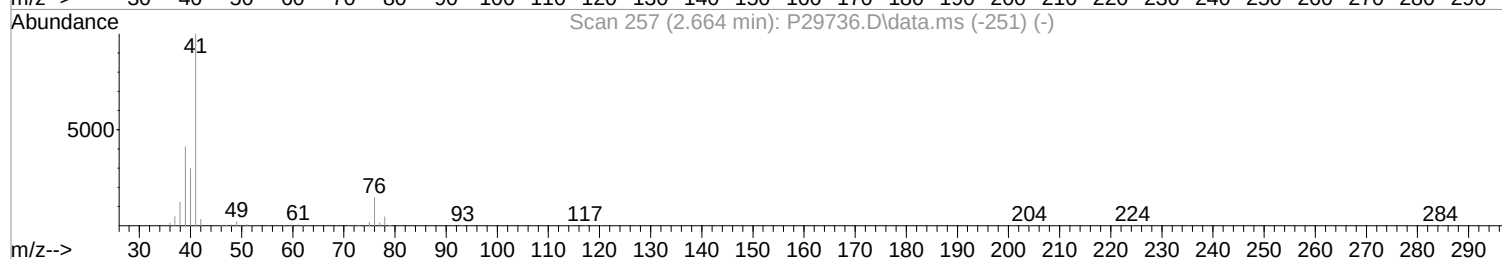
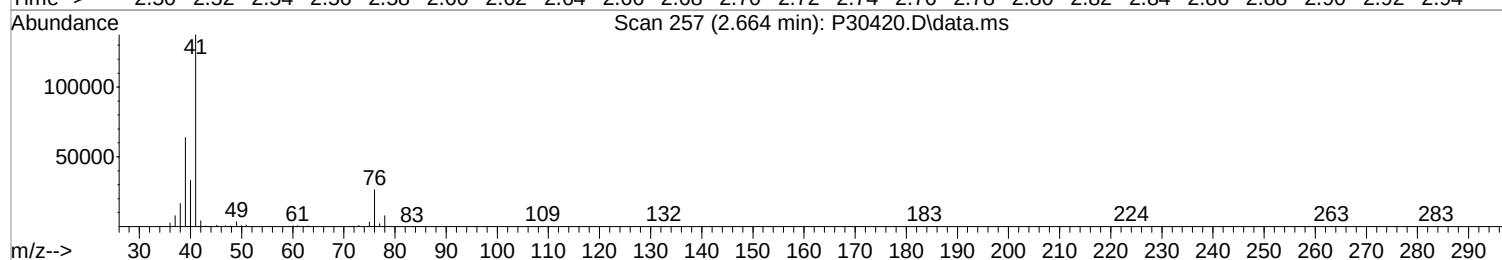
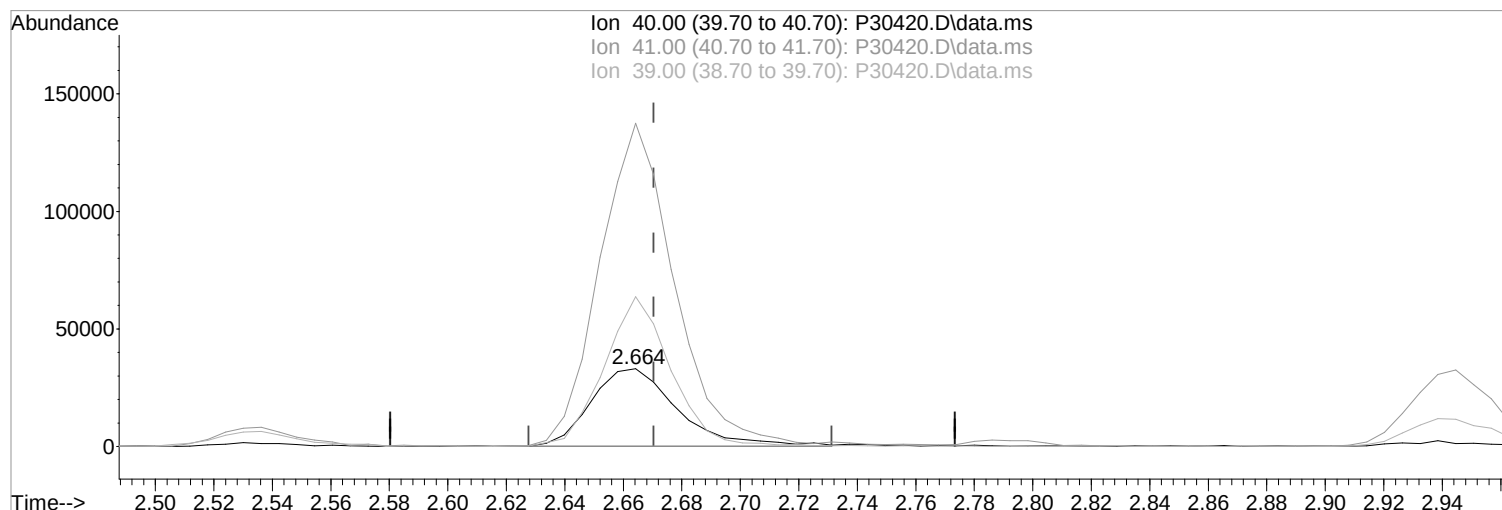
Poor integration.

09/29/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30420.D
Acq On : 29 Sep 2019 10:18 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:34:21 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30420.D\data.ms

(19) Acetonitrile

Manual Integration:

2.664min (-0.006) 175.88 ppb

Before

response 67161

Ion	Exp%	Act%

09/29/19

40.00	100	100

41.00	334.20	415.57#

39.00	137.60	192.70#

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30420.D
 Acq On : 29 Sep 2019 10:18 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:34:54 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	353511	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	569796	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	518294	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	274962	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	152572	50.52	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	101.04%	
48) surr1,1,2-dichloroetha...	5.846	65	204754	49.00	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	=	98.00%	
65) SURR3,Toluene-d8	8.316	98	724537	50.96	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.92%	
70) SURR2,BFB	10.870	95	264700	47.86	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.72%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.195	85	88169	20.18	ppb	96
3) Chloromethane	1.323	50	129651	19.26	ppb	98
4) Vinyl Chloride	1.396	62	111464	17.74	ppb	100
5) Bromomethane	1.622	94	66714	22.57	ppb	95
6) Chloroethane	1.701	64	65585	17.34	ppb	99
7) Freon 21	1.859	67	125257	17.88	ppb	98
8) Trichlorofluoromethane	1.896	101	101142	19.85	ppb	99
9) Diethyl Ether	2.140	59	81594	18.17	ppb	93
10) Freon 123a	2.146	67	81270	16.60	ppb	98
11) Freon 123	2.201	83	99743	18.47	ppb	98
12) Acrolein	2.256	56	39836	31.84	ppb	96
13) 1,1-Dicethene	2.323	96	63352	18.32	ppb	99
14) Freon 113	2.323	101	60965	18.13	ppb	96
15) Acetone	2.396	43	50849	17.67	ppb	96
16) 2-Propanol	2.530	45	206236	315.25	ppb	98
17) Iodomethane	2.463	142	52583	13.41	ppb	99
18) Carbon Disulfide	2.518	76	191933	18.52	ppb	96
19) Acetonitrile	2.664	40	40304m	105.55	ppb	
20) Allyl Chloride	2.664	76	40313	20.33	ppb	97
21) Methyl Acetate	2.701	43	91327	16.02	ppb	96
22) Methylene Chloride	2.792	84	76590	17.00	ppb	96
23) TBA	2.945	59	288119	297.51	ppb	96
24) Acrylonitrile	3.073	53	252069	85.42	ppb	99
25) Methyl-t-Butyl Ether	3.085	73	260267	17.88	ppb	97
26) trans-1,2-Dichloroethene	3.073	96	68576	18.26	ppb	95
28) 1,1-Dicethane	3.585	63	137883	17.75	ppb	98
29) Vinyl Acetate	3.682	86	21234	21.92	ppb	# 90
30) DIPE	3.694	45	302313	17.87	ppb	92
31) 2-Chloro-1,3-Butadiene	3.701	53	111338	17.71	ppb	100
32) ETBE	4.225	59	263074	17.28	ppb	98
33) 2,2-Dichloropropane	4.420	77	105913	18.60	ppb	91
34) cis-1,2-Dichloroethene	4.444	96	78573	18.23	ppb	94
35) 2-Butanone	4.518	43	62200	15.48	ppb	91
36) Propionitrile	4.633	54	105713	84.80	ppb	100
37) Bromochloromethane	4.847	130	44622	17.50	ppb	95
38) Methacrylonitrile	4.883	67	47652	16.16	ppb	# 75
39) Tetrahydrofuran	4.950	42	45665	15.35	ppb	97
40) Chloroform	5.030	83	122781	17.93	ppb	97
41) 1,1,1-Trichloroethane	5.298	97	96422	17.66	ppb	95

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30420.D
 Acq On : 29 Sep 2019 10:18 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:34:54 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	242393	17.27	ppb	95
44) Cyclohexane	5.353	41	83405	18.33	ppb	99
46) Carbontetrachloride	5.554	117	72413	18.66	ppb	94
47) 1,1-Dichloropropene	5.578	75	103034	18.69	ppb	97
49) Benzene	5.901	78	324332	18.93	ppb	98
50) 1,2-Dichloroethane	5.962	62	101847	17.49	ppb	97
51) Iso-Butyl Alcohol	5.962	43	139817	286.67	ppb	97
52) n-Heptane	6.346	43	120442	18.79	ppb	94
53) 1-Butanol	6.907	56	220012	786.78	ppb	97
54) Trichloroethene	6.834	130	71221	18.70	ppb	92
55) Methylcyclohexane	7.047	55	110609	18.02	ppb	95
56) 1,2-Dichloropropane	7.133	63	85503	18.09	ppb	90
57) Dibromomethane	7.273	93	43748	18.66	ppb	97
58) 1,4-Dioxane	7.346	88	32985	301.73	ppb	90
59) Methyl Methacrylate	7.352	69	77183	17.54	ppb	87
60) Bromodichloromethane	7.499	83	84717	18.62	ppb	95
61) 2-Nitropropane	7.803	41	25300	35.20	ppb	93
63) cis-1,3-Dichloropropene	8.035	75	122094	18.07	ppb	96
64) 4-Methyl-2-pentanone	8.248	43	124195	16.98	ppb	96
66) Toluene	8.389	91	338111	19.51	ppb	96
67) trans-1,3-Dichloropropene	8.669	75	108793	17.50	ppb	96
68) Ethyl Methacrylate	8.797	69	138220	17.96	ppb	91
69) 1,1,2-Trichloroethane	8.864	97	73694	19.16	ppb	96
72) Tetrachloroethene	8.968	164	56278	18.00	ppb	96
73) 2-Hexanone	9.151	43	91100	15.79	ppb	95
74) 1,3-Dichloropropane	9.029	76	137446	17.69	ppb	97
75) Dibromochloromethane	9.248	129	59337	18.48	ppb	96
76) N-Butyl Acetate	9.291	43	175997	16.01	ppb	98
77) 1,2-Dibromoethane	9.346	107	73230	18.08	ppb	93
78) Chlorobenzene	9.827	112	215627	18.86	ppb	97
79) 3-CBTF	9.840	180	117803	20.00	ppb	96
80) 4-CBTF	9.895	180	110136	20.74	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.913	131	64655	18.97	ppb	98
82) Ethylbenzene	9.937	106	112189	18.07	ppb	98
83) (m+p)Xylene	10.053	106	287994	38.40	ppb	92
84) o-Xylene	10.407	106	141288	18.51	ppb	99
85) Styrene	10.425	104	239760	18.97	ppb	97
87) Bromoform	10.583	173	35103	18.21	ppb	98
88) 2-CBTF	10.657	180	117254	20.43	ppb	98
89) Isopropylbenzene	10.742	105	362224	19.30	ppb	98
90) Cyclohexanone	10.827	55	111324	138.82	ppb	96
91) trans-1,4-Dichloro-2-B...	11.065	53	30985	14.97	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.016	83	115126	18.42	ppb	99
93) Bromobenzene	10.992	156	85201	18.43	ppb	94
94) 1,2,3-Trichloropropane	11.047	110	31934	15.52	ppb	# 85
95) n-Propylbenzene	11.095	91	451613	20.12	ppb	99
96) 2-Chlorotoluene	11.163	91	262901	18.56	ppb	98
97) 3-Chlorotoluene	11.211	91	290897	20.22	ppb	96
98) 4-Chlorotoluene	11.254	91	280108	18.31	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	296073	18.95	ppb	97
100) tert-Butylbenzene	11.516	119	257158	18.70	ppb	99
101) 1,2,4-Trimethylbenzene	11.553	105	304596	19.63	ppb	95
102) 3,4-DCBTF	11.620	214	93606	19.78	ppb	98
103) sec-Butylbenzene	11.699	105	391837	19.69	ppb	99
104) p-Isopropyltoluene	11.821	119	322630	18.94	ppb	99
105) 1,3-Dichlorobenz	11.784	146	171511	18.63	ppb	96

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30420.D
 Acq On : 29 Sep 2019 10:18 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:34:54 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	174347	18.50	ppb	98
107) 2,4-DCBTF	11.912	214	85018	19.69	ppb	98
108) 2,5-DCBTF	11.949	214	96256	20.04	ppb	100
109) n-Butylbenzene	12.150	91	307760	18.47	ppb	98
110) 1,2-Dclbenz	12.162	146	166692	18.30	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.796	157	21467	14.87	ppb	89
112) Trielution Dichlorotol...	12.900	125	488450	58.63	ppb	97
113) 1,3,5 Trichlorobenzene	12.949	180	133341	19.54	ppb	99
114) Coelution Dichlorotoluene	13.229	125	360306	38.61	ppb	97
115) 1,2,4-Tcbenzene	13.436	180	127509	18.17	ppb	95
116) Hexachlorobt	13.565	225	49584	17.64	ppb	96
117) Naphthalen	13.632	128	377887	17.12	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	118719	17.13	ppb	98
119) 2,4,5-Trichlorotoluene	14.394	159	90176	17.07	ppb	98
120) 2,3,6-Trichlorotoluene	14.485	159	83770	15.34	ppb	94

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

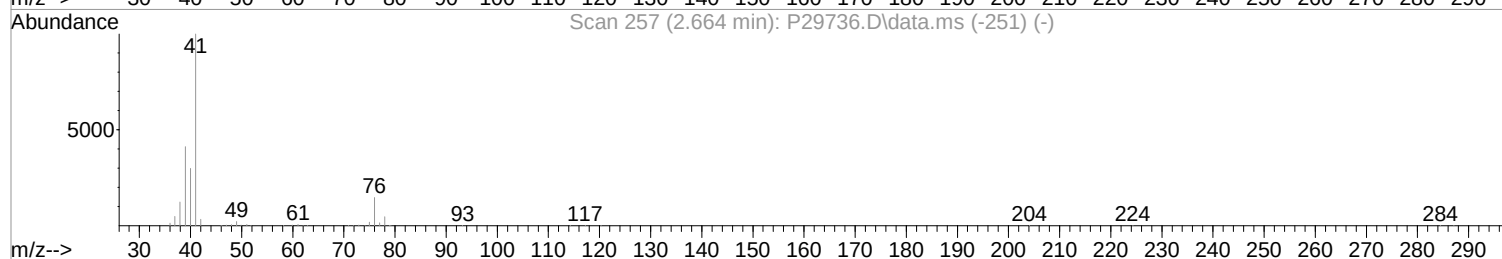
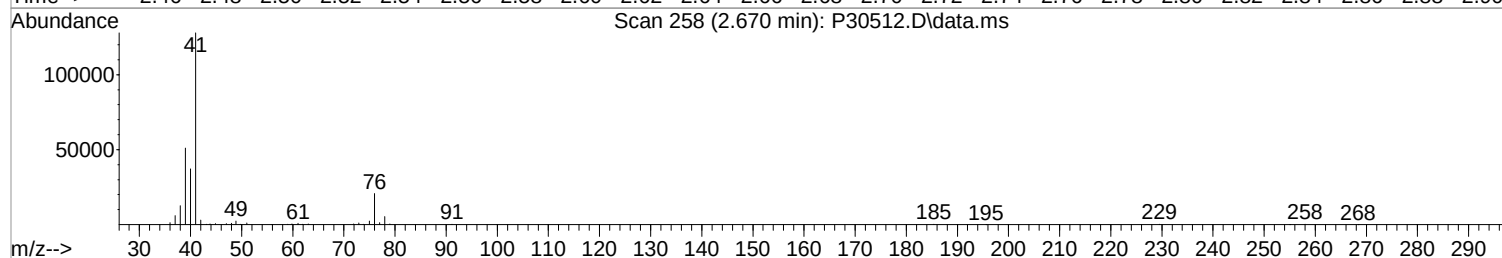
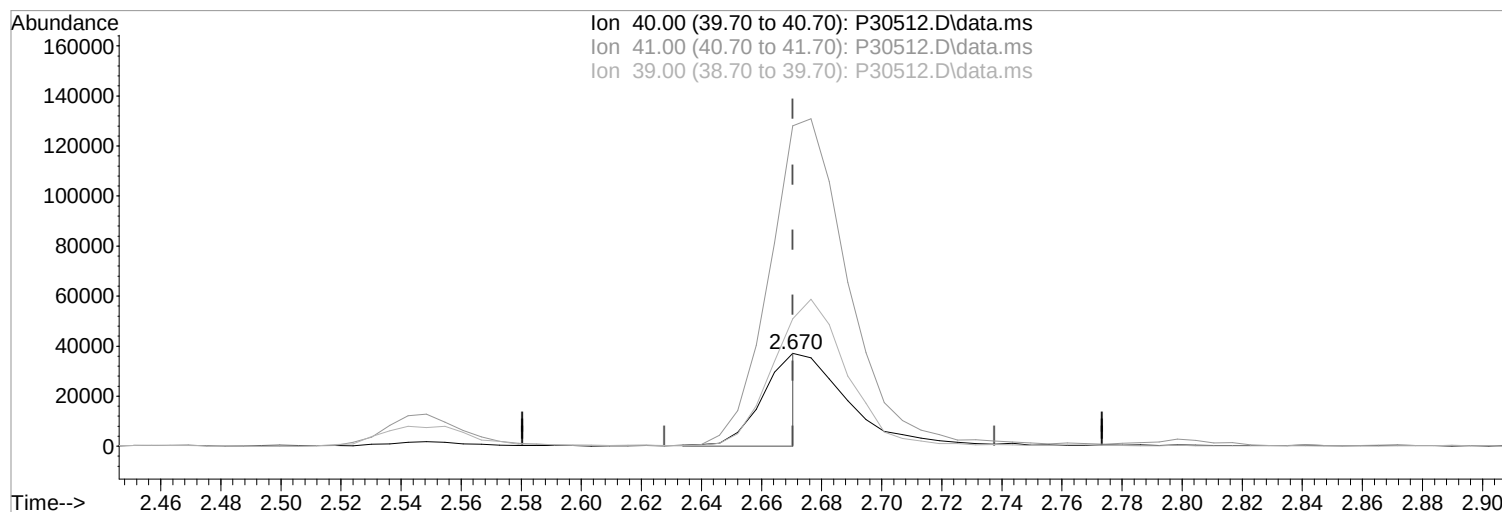
Quantitation Report (Qedit)

1st *FR* 10/01/19
2nd *FR* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30512.D
Acq On : 1 Oct 2019 11:13 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:58:39 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30512.D\data.ms

(19) Acetonitrile

2.670min (+0.000) 93.07 ppb m

response 32490

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	344.69
39.00	137.60	137.26
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

10/01/19

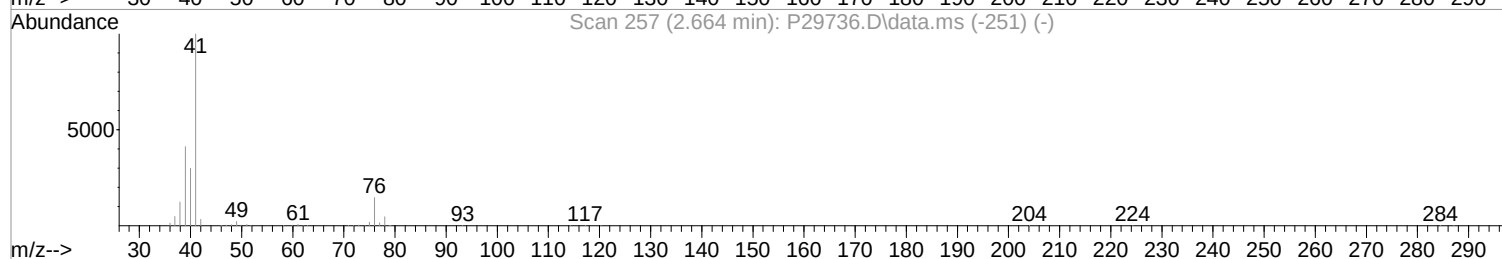
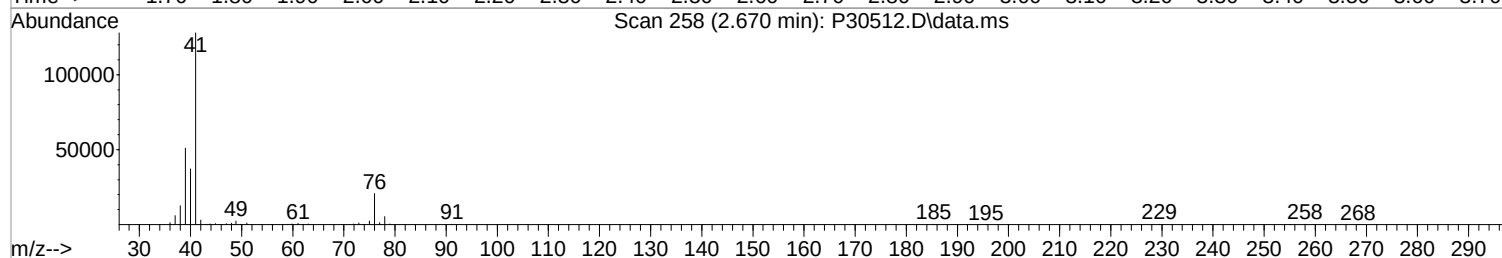
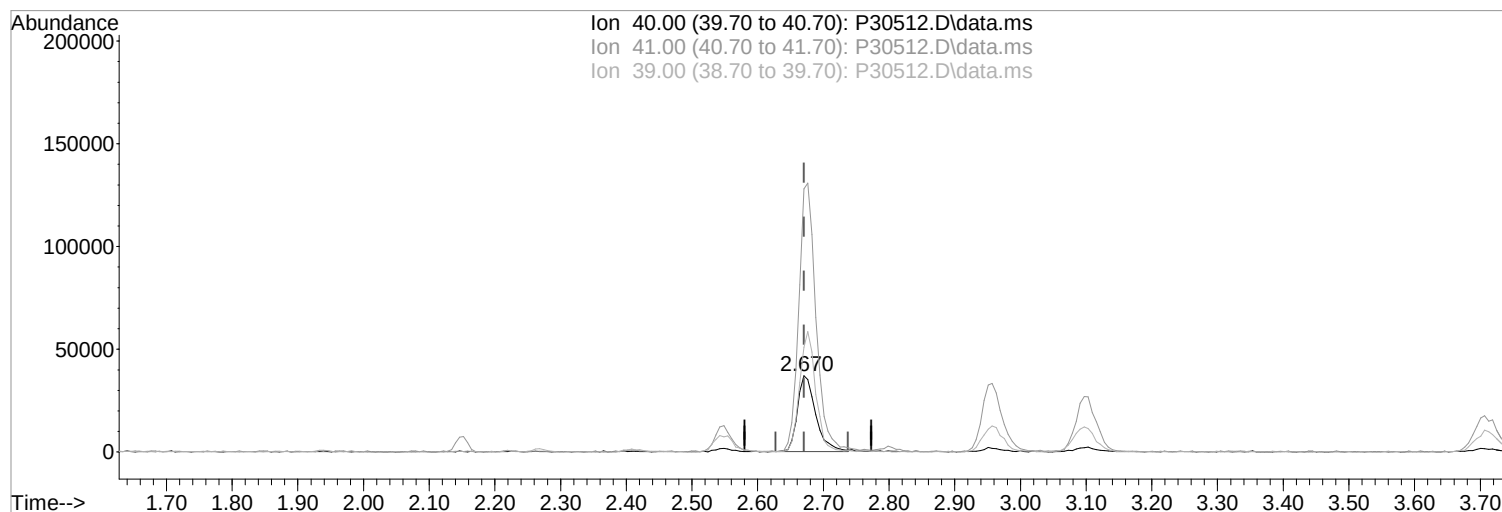
Quantitation Report (Qedit)

1st *FR* 10/01/19
2nd *FR* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30512.D
Acq On : 1 Oct 2019 11:13 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:58:39 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30512.D\data.ms

(19) Acetonitrile

Manual Integration:

2.670min (+0.000) 205.86 ppb

Before

response 71861

Ion	Exp%	Act%

10/01/19

40.00	100	100

41.00	334.20	344.69

39.00	137.60	137.26

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30512.D
 Acq On : 1 Oct 2019 11:13 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:59:07 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	323172	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	509214	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	463375	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	243926	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	131465	48.71	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.42%	
48) surr1,1,2-dichloroetha...	5.859	65	181219	48.53	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	97.06%	
65) SURR3,Toluene-d8	8.322	98	628122	49.44	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.88%	
70) SURR2,BFB	10.870	95	242210	49.00	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.00%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.201	85	76707	19.20	ppb	98
3) Chloromethane	1.329	50	117309	19.06	ppb	99
4) Vinyl Chloride	1.408	62	105292	18.33	ppb	98
5) Bromomethane	1.628	94	58720	21.72	ppb	97
6) Chloroethane	1.713	64	61741	17.85	ppb	97
7) Freon 21	1.866	67	115332	18.01	ppb	94
8) Trichlorofluoromethane	1.908	101	94238	20.23	ppb	96
9) Diethyl Ether	2.152	59	73540	17.91	ppb	94
10) Freon 123a	2.158	67	75883	16.96	ppb	98
11) Freon 123	2.213	83	90930	18.42	ppb	94
12) Acrolein	2.268	56	39520	34.56	ppb	94
13) 1,1-Dicethene	2.335	96	58813	18.60	ppb	99
14) Freon 113	2.335	101	61185	19.90	ppb	98
15) Acetone	2.408	43	60378	22.96	ppb	99
16) 2-Propanol	2.542	45	281722	471.06	ppb	97
17) Iodomethane	2.475	142	65154	17.71	ppb	91
18) Carbon Disulfide	2.530	76	184718	19.50	ppb	99
19) Acetonitrile	2.670	40	32490m	93.07	ppb	
20) Allyl Chloride	2.676	76	38220	21.08	ppb	# 86
21) Methyl Acetate	2.713	43	92814	17.81	ppb	97
22) Methylene Chloride	2.805	84	71401	17.34	ppb	95
23) TBA	2.957	59	326016	368.24	ppb	100
24) Acrylonitrile	3.085	53	254862	94.47	ppb	93
25) Methyl-t-Butyl Ether	3.103	73	244464	18.37	ppb	97
26) trans-1,2-Dichloroethene	3.085	96	64014	18.65	ppb	97
28) 1,1-Dicethane	3.603	63	128874	18.15	ppb	98
29) Vinyl Acetate	3.695	86	22208	24.88	ppb	# 57
30) DIPE	3.707	45	289147	18.70	ppb	88
31) 2-Chloro-1,3-Butadiene	3.713	53	105385	18.33	ppb	92
32) ETBE	4.243	59	248380	17.84	ppb	98
33) 2,2-Dichloropropane	4.432	77	98990	19.01	ppb	95
34) cis-1,2-Dichloroethene	4.457	96	74073	18.80	ppb	90
35) 2-Butanone	4.536	43	69874	19.02	ppb	96
36) Propionitrile	4.652	54	111556	97.89	ppb	97
37) Bromochloromethane	4.859	130	41935	17.99	ppb	92
38) Methacrylonitrile	4.896	67	46894	17.40	ppb	# 79
39) Tetrahydrofuran	4.975	42	47903	17.86	ppb	93
40) Chloroform	5.036	83	114974	18.37	ppb	93
41) 1,1,1-Trichloroethane	5.310	97	92827	18.60	ppb	94

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30512.D
 Acq On : 1 Oct 2019 11:13 am
 Operator : K.Ruest
 Sample : LCS-FP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:59:07 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	224832	17.53	ppb	97
44) Cyclohexane	5.365	41	75269	18.51	ppb	92
46) Carbontetrachloride	5.572	117	69181	19.95	ppb	98
47) 1,1-Dichloropropene	5.591	75	97581	19.81	ppb	98
49) Benzene	5.914	78	307816	20.11	ppb	99
50) 1,2-Dichloroethane	5.975	62	94840	18.23	ppb	94
51) Iso-Butyl Alcohol	5.969	43	157959	362.39	ppb	97
52) n-Heptane	6.359	43	112574	19.66	ppb	95
53) 1-Butanol	6.913	56	258144	1032.97	ppb	100
54) Trichloroethene	6.840	130	66429	19.52	ppb	98
55) Methylcyclohexane	7.060	55	102081	18.61	ppb	94
56) 1,2-Dichloropropane	7.133	63	82335	19.49	ppb	94
57) Dibromomethane	7.279	93	41572	19.84	ppb	96
58) 1,4-Dioxane	7.352	88	38178	390.79	ppb	96
59) Methyl Methacrylate	7.358	69	77179	19.63	ppb	97
60) Bromodichloromethane	7.505	83	79092	19.46	ppb	97
61) 2-Nitropropane	7.810	41	30078	46.82	ppb	92
63) cis-1,3-Dichloropropene	8.035	75	113925	18.86	ppb	99
64) 4-Methyl-2-pentanone	8.255	43	129723	19.84	ppb	98
66) Toluene	8.395	91	321721	20.78	ppb	98
67) trans-1,3-Dichloropropene	8.675	75	105636	19.01	ppb	98
68) Ethyl Methacrylate	8.803	69	131931	19.18	ppb	97
69) 1,1,2-Trichloroethane	8.864	97	67559	19.65	ppb	98
72) Tetrachloroethene	8.968	164	55095	19.72	ppb	98
73) 2-Hexanone	9.151	43	94871	18.39	ppb	95
74) 1,3-Dichloropropane	9.029	76	128413	18.48	ppb	97
75) Dibromochloromethane	9.254	129	57307	19.97	ppb	95
76) N-Butyl Acetate	9.297	43	175355	17.84	ppb	98
77) 1,2-Dibromoethane	9.346	107	69239	19.13	ppb	99
78) Chlorobenzene	9.828	112	198254	19.39	ppb	96
79) 3-CBTF	9.846	180	117287	22.27	ppb	97
80) 4-CBTF	9.901	180	105474	22.21	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.919	131	60116	19.73	ppb	98
82) Ethylbenzene	9.943	106	107838	19.43	ppb	94
83) (m+p)Xylene	10.053	106	268379	40.02	ppb	# 87
84) o-Xylene	10.413	106	129453	18.97	ppb	100
85) Styrene	10.425	104	217704	19.27	ppb	97
87) Bromoform	10.590	173	33280	19.47	ppb	94
88) 2-CBTF	10.663	180	110882	21.78	ppb	99
89) Isopropylbenzene	10.742	105	346077	20.79	ppb	97
90) Cyclohexanone	10.833	55	127125	178.69	ppb	97
91) trans-1,4-Dichloro-2-B...	11.065	53	34629	18.86	ppb	88
92) 1,1,2,2-Tetrachloroethane	11.016	83	117884	21.26	ppb	99
93) Bromobenzene	10.992	156	76836	18.74	ppb	97
94) 1,2,3-Trichloropropane	11.047	110	33104	18.14	ppb	# 86
95) n-Propylbenzene	11.096	91	426077	21.39	ppb	99
96) 2-Chlorotoluene	11.163	91	251147	19.98	ppb	98
97) 3-Chlorotoluene	11.217	91	275636	21.59	ppb	98
98) 4-Chlorotoluene	11.254	91	282617	20.83	ppb	98
99) 1,3,5-Trimethylbenzene	11.248	105	288371	20.80	ppb	100
100) tert-Butylbenzene	11.516	119	245270	20.10	ppb	97
101) 1,2,4-Trimethylbenzene	11.559	105	292938	21.29	ppb	99
102) 3,4-DCBTF	11.620	214	89929	21.42	ppb	97
103) sec-Butylbenzene	11.699	105	368455	20.87	ppb	99
104) p-Isopropyltoluene	11.821	119	311841	20.63	ppb	99
105) 1,3-Dichlorobenz	11.784	146	160641	19.67	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30512.D
Acq On : 1 Oct 2019 11:13 am
Operator : K.Ruest
Sample : LCS-FP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

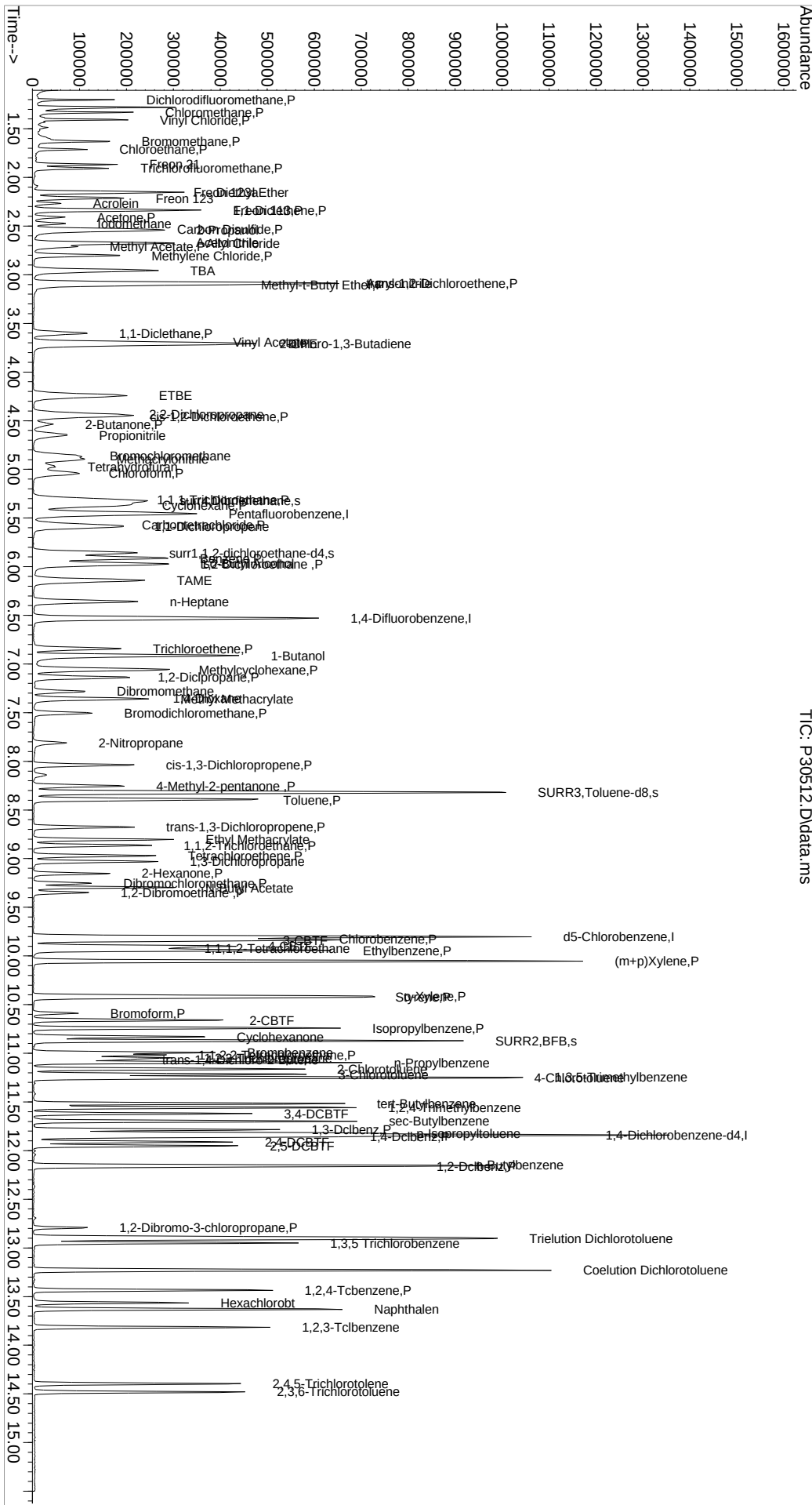
Quant Time: Oct 01 11:59:07 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.858	146	166433	19.90	ppb	97
107) 2,4-DCBTF	11.912	214	81077	21.16	ppb	97
108) 2,5-DCBTF	11.949	214	95138	22.33	ppb	97
109) n-Butylbenzene	12.150	91	303780	20.55	ppb	97
110) 1,2-Dclbenz	12.162	146	159230	19.70	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.790	157	23406	18.28	ppb	90
112) Trielution Dichlorotol...	12.900	125	472226	63.89	ppb	97
113) 1,3,5 Trichlorobenzene	12.949	180	128796	21.28	ppb	98
114) Coelution Dichlorotoluene	13.229	125	354459	42.81	ppb	96
115) 1,2,4-Tcbenzene	13.437	180	123978	19.92	ppb	97
116) Hexachlorobt	13.565	225	48852	19.59	ppb	95
117) Naphthalen	13.632	128	388962	19.86	ppb	98
118) 1,2,3-Tclbenzene	13.815	180	117423	19.10	ppb	99
119) 2,4,5-Trichlorotoluene	14.394	159	90991	19.42	ppb	95
120) 2,3,6-Trichlorotoluene	14.479	159	83351	17.20	ppb	95

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

Data Path : I:\ACQDATA\msvoa12\Data\100119\
 Data File : P30512.D
 Acq On : 1 Oct 2019 11:13 am
 Operator : K.Ruest
 Sample : LCS-FP
 Inst : MSVOA-12
 PALS Vial : 1 Sample Multiplier: 1

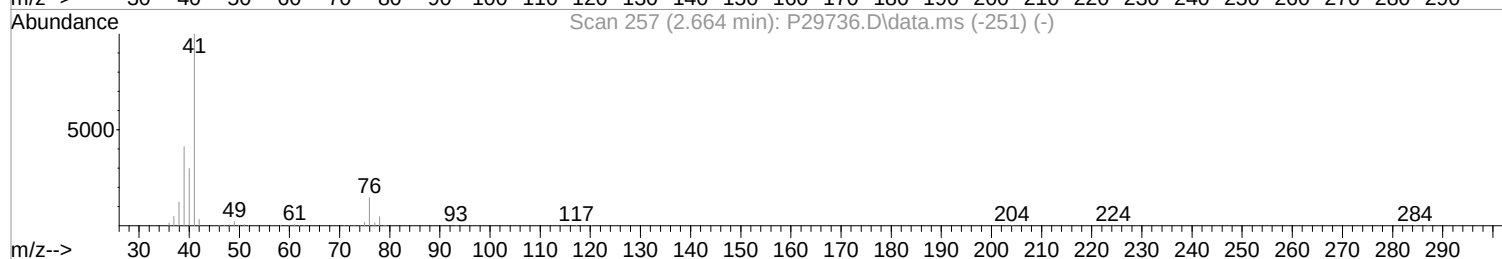
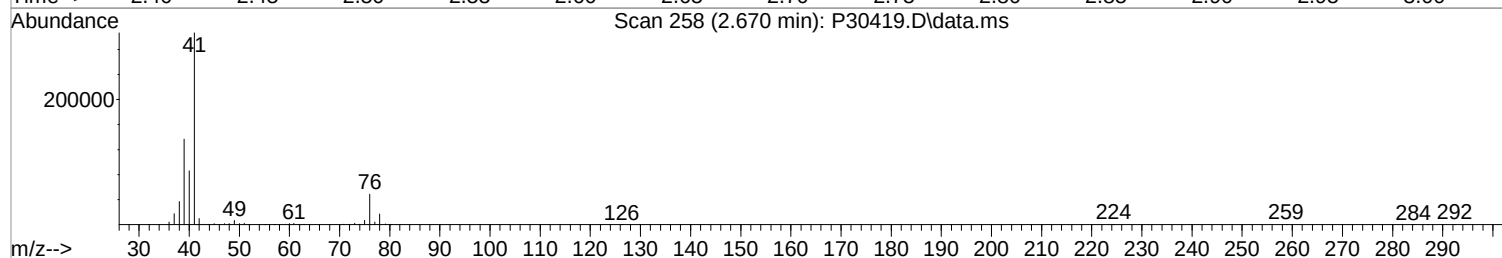
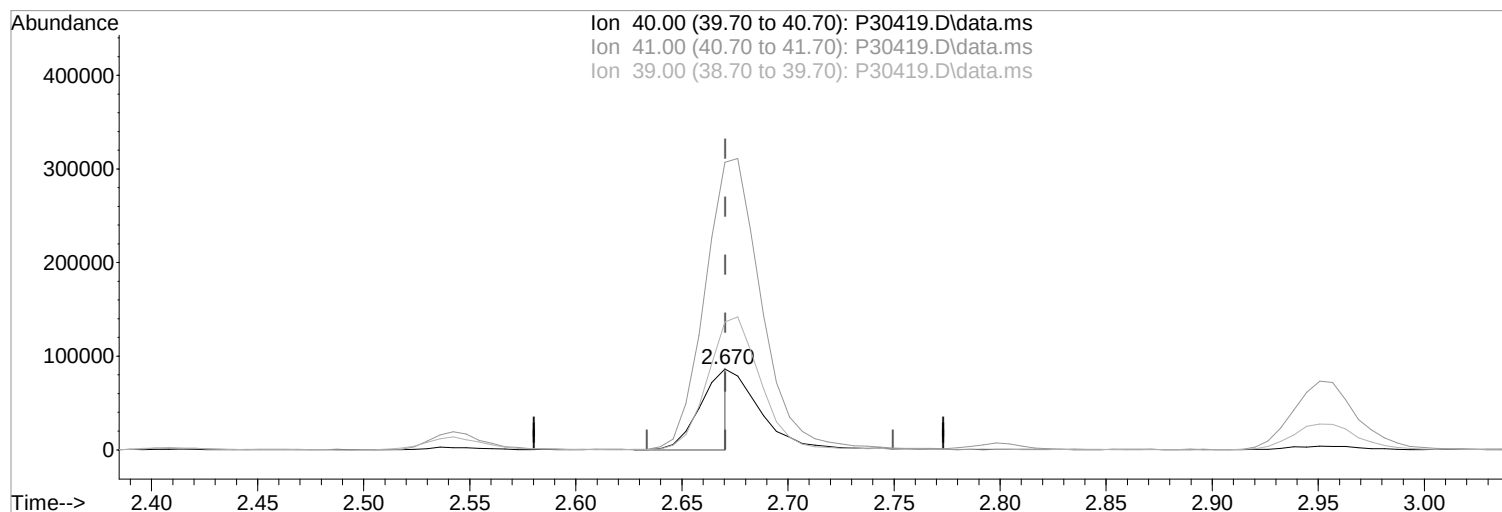
Quant Time: Oct 01 11:59:07 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30419.D
Acq On : 29 Sep 2019 9:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:08:48 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30419.D\data.ms

(19) Acetonitrile

2.670min (-0.000) 221.74 ppb m

response 83848

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	356.26#
39.00	137.60	158.48#
0.00	0.00	0.00

Manual Integration:

After

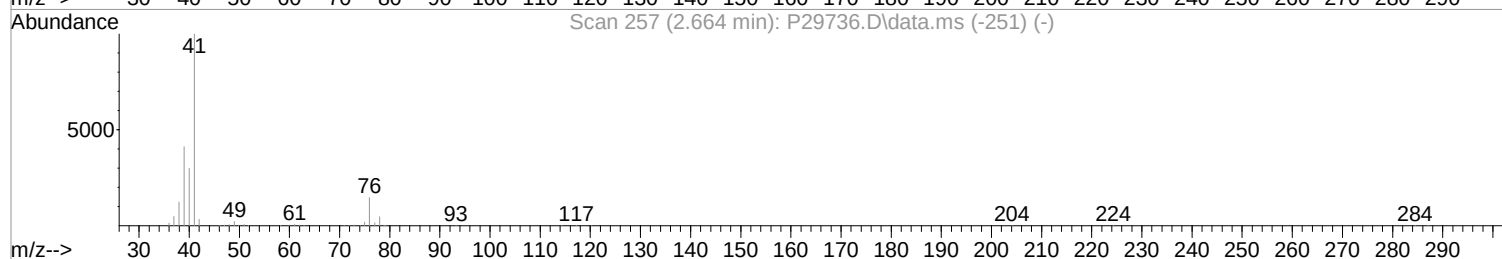
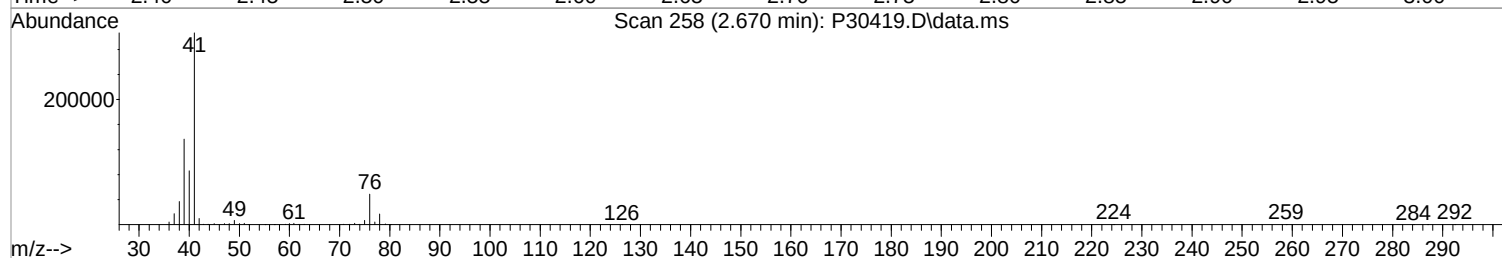
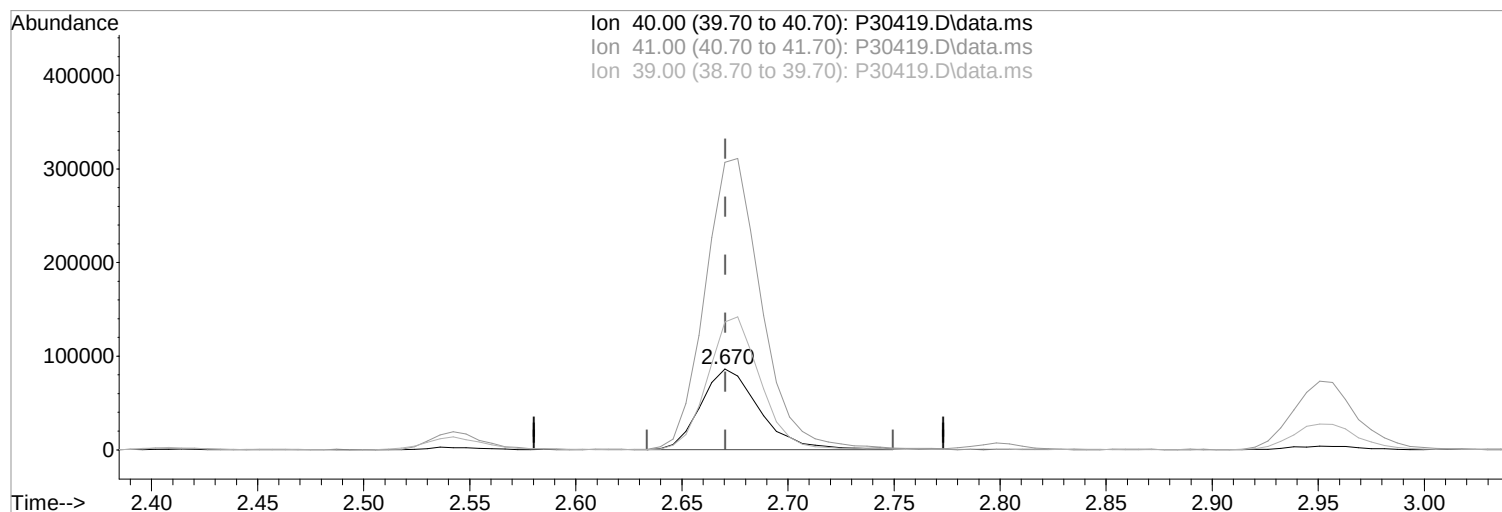
Poor integration.

09/29/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30419.D
Acq On : 29 Sep 2019 9:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:08:48 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30419.D\data.ms

(19) Acetonitrile

Manual Integration:

2.670min (-0.000) 440.94 ppb

Before

response 166731

Ion	Exp%	Act%

09/29/19

40.00	100	100

41.00	334.20	356.26#

39.00	137.60	158.48#

0.00	0.00	0.00

Evaluate Continuing Calibration Report

1st *RL* 09/29/192nd *FJ* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30419.D
 Acq On : 29 Sep 2019 9:50 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:09:26 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 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	108	0.00
2 P	Dichlorodifluoromethane	50.0000	56.4632	-12.9	113	0.00
3 P	Chloromethane	50.0000	47.8151	4.4	105	0.00
4 P	Vinyl Chloride	50.0000	48.8760	2.2	104	0.00
5 P	Bromomethane	50.0000	51.7980	-3.6	113	0.01
6 P	Chloroethane	50.0000	45.5752	8.8	100	0.00
7	Freon 21	50.0000	46.9656	6.1	106	0.00
8 P	Trichlorofluoromethane	50.0000	49.1772	1.6	102	0.00
9	Diethyl Ether	50.0000	44.0947	11.8	94	0.00
10	Freon 123a	50.0000	43.3931	13.2	101	0.00
11	Freon 123	50.0000	43.4073	13.2	100	0.00
12	Acrolein	250.0000	247.1881	1.1	107	0.00
13 P	1,1-Dicethene	50.0000	46.5822	6.8	101	0.00
14 P	Freon 113	50.0000	47.6046	4.8	105	0.00
15 P	Acetone	50.0000	41.3295	17.3	92	0.00
16	2-Propanol	1000.0000	690.5520	30.9#	75	0.00
17	Iodomethane	50.0000	39.8062	20.4#	80	0.00
18 P	Carbon Disulfide	50.0000	42.8966	14.2	92	0.00
19	Acetonitrile	250.0000	221.7446	11.3	103	0.00
20	Allyl Chloride	50.0000	48.9824	2.0	112	0.00
21 P	Methyl Acetate	50.0000	39.7610	20.5#	88	0.00
22 P	Methylene Chloride	50.0000	40.4588	19.1	98	0.00
23	TBA	1000.0000	710.6526	28.9#	76	0.00
24	Acrylonitrile	250.0000	208.1658	16.7	87	0.00
25 P	Methyl-t-Butyl Ether	50.0000	43.6831	12.6	94	0.00
26 P	trans-1,2-Dichloroethene	50.0000	46.2581	7.5	102	0.00
27	Halothane	-1.0000	0.0000	0.0	0	-4.22#
28 P	1,1-Dicethane	50.0000	46.2891	7.4	99	0.00
29	Vinyl Acetate	50.0000	44.8287	10.3	106	0.00
30	DIPE	50.0000	44.7278	10.5	97	0.00
31	2-Chloro-1,3-Butadiene	50.0000	45.1644	9.7	94	0.00
32	ETBE	50.0000	43.2022	13.6	94	0.00
33	2,2-Dichloropropane	50.0000	47.4635	5.1	100	0.00
34 P	cis-1,2-Dichloroethene	50.0000	45.5166	9.0	98	0.00
35 P	2-Butanone	50.0000	40.8620	18.3	91	-0.01
36	Propionitrile	250.0000	203.5610	18.6	86	0.00
37	Bromochloromethane	50.0000	43.9474	12.1	98	0.00
38	Methacrylonitrile	50.0000	41.1645	17.7	88	-0.01
39	Tetrahydrofuran	50.0000	38.8844	22.2#	84	-0.02
40 P	Chloroform	50.0000	44.2908	11.4	98	0.00
41 P	1,1,1-Trichloroethane	50.0000	45.5620	8.9	101	0.00
42	TAME	50.0000	43.4927	13.0	93	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	105	0.00
44 P	Cyclohexane	50.0000	46.8096	6.4	102	0.00
45 s	surr4,Dibrflmethane	50.0000	48.8957	2.2	102	0.00
46 P	Carbontetrachloride	50.0000	49.0203	2.0	101	0.00
47	1,1-Dichloropropene	50.0000	47.6467	4.7	98	0.00
48 s	surr1,1,2-dichloroethane-d4	50.0000	48.7468	2.5	100	0.00
49 P	Benzene	50.0000	47.3137	5.4	98	0.00
50 P	1,2-Dichloroethane	50.0000	46.6873	6.6	98	0.00
51	Iso-Butyl Alcohol	1000.0000	735.7063	26.4#	79	-0.01

Evaluate Continuing Calibration Report

1st *RL* 09/29/192nd *FJ* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\

Data File : P30419.D

Acq On : 29 Sep 2019 9:50 am

Operator : K.Ruest

Sample : CCV

Misc :

Inst : MSVOA-12

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 29 10:09:26 2019

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Thu Sep 12 10:44:40 2019

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	50.2134	-0.4	105	0.00
53	1-Butanol	2500.0000	1890.3688	24.4#	75	-0.01
54 P	Trichloroethene	50.0000	49.8383	0.3	102	0.00
55 P	Methylcyclohexane	50.0000	47.3833	5.2	103	0.00
56 P	1,2-Dichloropropane	50.0000	46.7880	6.4	97	0.00
57	Dibromomethane	50.0000	47.8039	4.4	98	0.00
58	1,4-Dioxane	1000.0000	759.8262	24.0#	83	-0.01
59	Methyl Methacrylate	50.0000	45.5772	8.8	88	0.00
60 P	Bromodichloromethane	50.0000	46.4459	7.1	95	0.00
61	2-Nitropropane	100.0000	98.3000	1.7	118	0.00
62	2-Chloroethylvinyl Ether	50.0000	38.8105	22.4#	75	0.00
63 P	cis-1,3-Dichloropropene	50.0000	47.3299	5.3	95	0.00
64 P	4-Methyl-2-pentanone	50.0000	42.1276	15.7	87	0.00
65 s	SURR3, Toluene-d8	50.0000	50.9762	-2.0	106	0.00
66 P	Toluene	50.0000	48.7883	2.4	99	0.00
67 P	trans-1,3-Dichloropropene	50.0000	48.2243	3.6	97	0.00
68	Ethyl Methacrylate	50.0000	45.9006	8.2	91	0.00
69 P	1,1,2-Trichloroethane	50.0000	46.1063	7.8	93	0.00
70 s	SURR2, BFB	50.0000	50.2625	-0.5	106	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	105	0.00
72 P	Tetrachloroethene	50.0000	47.1072	5.8	105	0.00
73 P	2-Hexanone	50.0000	40.2924	19.4	85	0.00
74	1,3-Dichloropropane	50.0000	45.7200	8.6	96	0.00
75 P	Dibromochloromethane	50.0000	47.2506	5.5	100	0.00
76	N-Butyl Acetate	50.0000	42.3544	15.3	84	0.00
77 P	1,2-Dibromoethane	50.0000	44.2863	11.4	93	0.00
78 P	Chlorobenzene	50.0000	47.3284	5.3	100	0.00
79	3-CBTF	50.0000	48.8971	2.2	108	0.00
80	4-CBTF	50.0000	48.1131	3.8	107	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	48.2382	3.5	99	0.00
82 P	Ethylbenzene	50.0000	47.5579	4.9	100	0.00
83 P	(m+p)Xylene	100.0000	99.4567	0.5	102	0.00
84 P	o-Xylene	50.0000	47.6829	4.6	101	0.00
85 P	Styrene	50.0000	49.0178	2.0	99	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	111	0.00
87 P	Bromoform	50.0000	46.3250	7.3	102	0.00
88	2-CBTF	50.0000	46.5611	6.9	106	0.00
89 P	Isopropylbenzene	50.0000	48.4752	3.0	102	0.00
90	Cyclohexanone	1000.0000	1234.0967	-23.4#	136	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	36.1442	27.7#	80	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	42.8057	14.4	90	0.00
93	Bromobenzene	50.0000	45.8208	8.4	103	0.00
94	1,2,3-Trichloropropane	50.0000	39.1986	21.6#	91	0.00
95	n-Propylbenzene	50.0000	47.9043	4.2	100	0.00
96	2-Chlorotoluene	50.0000	45.5353	8.9	99	0.00
97	3-Chlorotoluene	50.0000	45.6537	8.7	100	0.00
98	4-Chlorotoluene	50.0000	46.4742	7.1	98	0.00
99	1,3,5-Trimethylbenzene	50.0000	48.0452	3.9	101	0.00
100	tert-Butylbenzene	50.0000	47.3632	5.3	101	0.00
101	1,2,4-Trimethylbenzene	50.0000	49.4593	1.1	102	0.00

Evaluate Continuing Calibration Report

1st *RL* 09/29/19
2nd *FJ* 10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30419.D
 Acq On : 29 Sep 2019 9:50 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:09:26 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 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	46.1016	7.8	107	0.00
103	sec-Butylbenzene	50.0000	48.2485	3.5	101	0.00
104	p-Isopropyltoluene	50.0000	48.9384	2.1	102	0.00
105 P	1,3-Dclbenz	50.0000	45.8175	8.4	103	0.00
106 P	1,4-Dclbenz	50.0000	45.1649	9.7	102	0.00
107	2,4-DCBTF	50.0000	46.4373	7.1	107	0.00
108	2,5-DCBTF	50.0000	46.9215	6.2	107	0.00
109	n-Butylbenzene	50.0000	46.8832	6.2	100	0.00
110 P	1,2-Dclbenz	50.0000	45.9411	8.1	102	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	38.7958	22.4#	85	0.00
112	Trielution Dichlorotoluene	150.0000	139.6317	6.9	101	0.00
113	1,3,5 Trichlorobenzene	50.0000	46.6706	6.7	106	0.00
114	Coelution Dichlorotoluene	100.0000	90.6895	9.3	99	0.00
115 P	1,2,4-Tcbenzene	50.0000	45.3307	9.3	102	0.00
116	Hexachlorobt	50.0000	45.3816	9.2	102	0.00
117	Naphthalen	50.0000	42.5950	14.8	87	0.00
118	1,2,3-Tclbenzene	50.0000	44.5315	10.9	98	0.00
119	2,4,5-Trichlorotoluene	50.0000	38.6974	22.6#	86	0.00
120	2,3,6-Trichlorotoluene	50.0000	39.0609	21.9#	87	0.00

(#) = Out of Range

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

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30419.D
 Acq On : 29 Sep 2019 9:50 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:09:26 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	350069	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	558381	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	502256	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	278718	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	144698	48.90	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.80%	
48) surr1,1,2-dichloroetha...	5.853	65	199613	48.75	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	97.50%	
65) SURR3,Toluene-d8	8.315	98	710188	50.98	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.96%	
70) SURR2,BFB	10.870	95	272444	50.26	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	100.52%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.201	85	244303	56.46	ppb	99
3) Chloromethane	1.329	50	318719	47.82	ppb	98
4) Vinyl Chloride	1.408	62	304109	48.88	ppb	94
5) Bromomethane	1.634	94	150655	51.80	ppb	96
6) Chloroethane	1.713	64	170744	45.58	ppb	99
7) Freon 21	1.865	67	325724	46.97	ppb	96
8) Trichlorofluoromethane	1.908	101	248098	49.18	ppb	91
9) Diethyl Ether	2.146	59	196116	44.09	ppb	97
10) Freon 123a	2.158	67	210368	43.39	ppb	100
11) Freon 123	2.213	83	232112	43.41	ppb	100
12) Acrolein	2.262	56	306218	247.19	ppb	98
13) 1,1-Dicethene	2.335	96	159528	46.58	ppb	99
14) Freon 113	2.335	101	158510	47.60	ppb	100
15) Acetone	2.408	43	117744	41.33	ppb	94
16) 2-Propanol	2.542	45	447366	690.55	ppb	98
17) Iodomethane	2.475	142	167822	39.81	ppb	99
18) Carbon Disulfide	2.530	76	440184	42.90	ppb	99
19) Acetonitrile	2.670	40	83848m	221.74	ppb	
20) Allyl Chloride	2.676	76	96180	48.98	ppb	96
21) Methyl Acetate	2.707	43	224495	39.76	ppb	99
22) Methylene Chloride	2.798	84	180459	40.46	ppb	99
23) TBA	2.951	59	681523	710.65	ppb	98
24) Acrylonitrile	3.085	53	608305	208.17	ppb	98
25) Methyl-t-Butyl Ether	3.097	73	629553	43.68	ppb	100
26) trans-1,2-Dichloroethene	3.085	96	172016	46.26	ppb	98
28) 1,1-Dicethane	3.597	63	356063	46.29	ppb	98
29) Vinyl Acetate	3.700	86	44486	44.83	ppb	# 87
30) DIPE	3.707	45	749186	44.73	ppb	96
31) 2-Chloro-1,3-Butadiene	3.713	53	281236	45.16	ppb	99
32) ETBE	4.237	59	651448	43.20	ppb	100
33) 2,2-Dichloropropane	4.432	77	267698	47.46	ppb	96
34) cis-1,2-Dichloroethene	4.450	96	194289	45.52	ppb	95
35) 2-Butanone	4.530	43	162601	40.86	ppb	96
36) Propionitrile	4.639	54	251293	203.56	ppb	100
37) Bromochloromethane	4.853	130	110966	43.95	ppb	96
38) Methacrylonitrile	4.889	67	120176	41.16	ppb	96
39) Tetrahydrofuran	4.956	42	108580	38.88	ppb	98
40) Chloroform	5.036	83	300270	44.29	ppb	98
41) 1,1,1-Trichloroethane	5.304	97	246280	45.56	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
 Data File : P30419.D
 Acq On : 29 Sep 2019 9:50 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 29 10:09:26 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	604380	43.49	ppb	97
44) Cyclohexane	5.365	41	208713	46.81	ppb	97
46) Carbontetrachloride	5.566	117	186410	49.02	ppb	95
47) 1,1-Dichloropropene	5.584	75	257390	47.65	ppb	98
49) Benzene	5.907	78	794203	47.31	ppb	99
50) 1,2-Dichloroethane	5.968	62	266375	46.69	ppb	96
51) Iso-Butyl Alcohol	5.968	43	351642	735.71	ppb	99
52) n-Heptane	6.352	43	315362	50.21	ppb	96
53) 1-Butanol	6.907	56	518028	1890.37	ppb	98
54) Trichloroethene	6.840	130	186020	49.84	ppb	98
55) Methylcyclohexane	7.053	55	285012	47.38	ppb	97
56) 1,2-Dicloropropane	7.133	63	216760	46.79	ppb	95
57) Dibromomethane	7.279	93	109847	47.80	ppb	98
58) 1,4-Dioxane	7.346	88	81399	759.83	ppb	84
59) Methyl Methacrylate	7.358	69	196544	45.58	ppb	99
60) Bromodichloromethane	7.499	83	207049	46.45	ppb	100
61) 2-Nitropropane	7.803	41	69242	98.30	ppb	100
62) 2-Chloroethylvinyl Ether	7.901	63	120852	38.81	ppb	100
63) cis-1,3-Dichloropropene	8.035	75	313436	47.33	ppb	98
64) 4-Methyl-2-pentanone	8.248	43	301970	42.13	ppb	97
66) Toluene	8.389	91	828397	48.79	ppb	98
67) trans-1,3-Dichloropropene	8.675	75	293862	48.22	ppb	98
68) Ethyl Methacrylate	8.803	69	346127	45.90	ppb	100
69) 1,1,2-Trichloroethane	8.864	97	173801	46.11	ppb	97
72) Tetrachloroethene	8.968	164	142687	47.11	ppb	97
73) 2-Hexanone	9.151	43	225300	40.29	ppb	97
74) 1,3-Dichloropropane	9.029	76	344321	45.72	ppb	99
75) Dibromochloromethane	9.248	129	147001	47.25	ppb	95
76) N-Butyl Acetate	9.291	43	451289	42.35	ppb	99
77) 1,2-Dibromoethane	9.346	107	173783	44.29	ppb	97
78) Chlorobenzene	9.827	112	524437	47.33	ppb	98
79) 3-CBTF	9.840	180	279162	48.90	ppb	96
80) 4-CBTF	9.894	180	247623	48.11	ppb	98
81) 1,1,1,2-Tetrachloroethane	9.919	131	159287	48.24	ppb	98
82) Ethylbenzene	9.943	106	286108	47.56	ppb	98
83) (m+p)Xylene	10.053	106	722871	99.46	ppb	99
84) o-Xylene	10.413	106	352662	47.68	ppb	93
85) Styrene	10.425	104	600389	49.02	ppb	97
87) Bromoform	10.589	173	90497	46.32	ppb	94
88) 2-CBTF	10.656	180	270837	46.56	ppb	96
89) Isopropylbenzene	10.742	105	921993	48.48	ppb	100
90) Cyclohexanone	10.827	55	1003206	1234.10	ppb	100
91) trans-1,4-Dichloro-2-B...	11.065	53	75846	36.14	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.016	83	271172	42.81	ppb	98
93) Bromobenzene	10.992	156	214700	45.82	ppb	96
94) 1,2,3-Trichloropropane	11.047	110	81744	39.20	ppb	# 89
95) n-Propylbenzene	11.095	91	1090148	47.90	ppb	98
96) 2-Chlorotoluene	11.162	91	653923	45.54	ppb	97
97) 3-Chlorotoluene	11.217	91	665868	45.65	ppb	99
98) 4-Chlorotoluene	11.254	91	720536	46.47	ppb	96
99) 1,3,5-Trimethylbenzene	11.248	105	761016	48.05	ppb	99
100) tert-Butylbenzene	11.516	119	660269	47.36	ppb	100
101) 1,2,4-Trimethylbenzene	11.559	105	777770	49.46	ppb	98
102) 3,4-DCBTF	11.620	214	221173	46.10	ppb	98
103) sec-Butylbenzene	11.699	105	973245	48.25	ppb	98
104) p-Isopropyltoluene	11.821	119	845123	48.94	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30419.D
Acq On : 29 Sep 2019 9:50 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

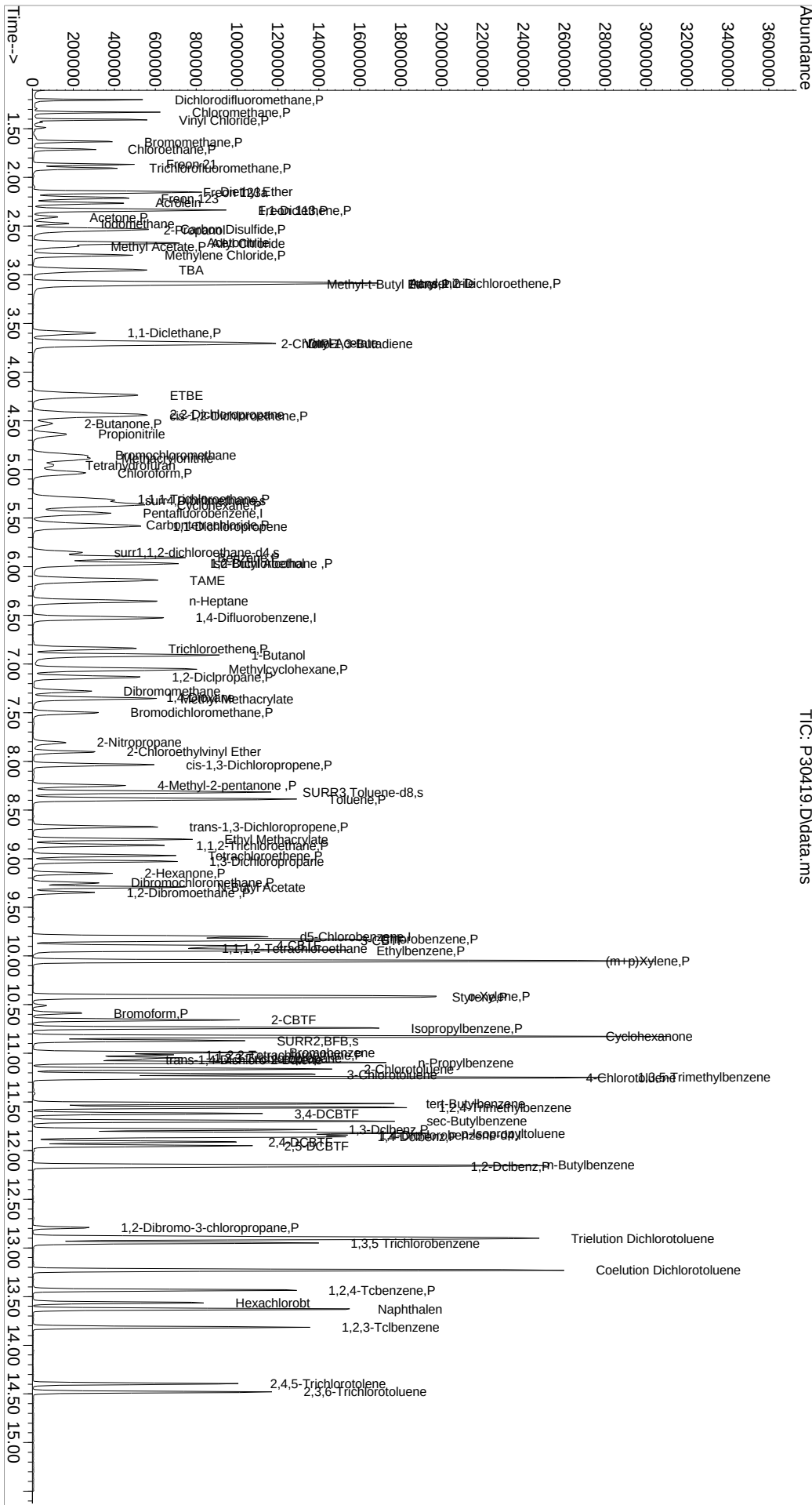
Quant Time: Sep 29 10:09:26 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	427646	45.82	ppb	97
106) 1,4-Dclbenz	11.857	146	431555	45.16	ppb	98
107) 2,4-DCBTF	11.912	214	203293	46.44	ppb	99
108) 2,5-DCBTF	11.949	214	228475	46.92	ppb	100
109) n-Butylbenzene	12.150	91	791737	46.88	ppb	99
110) 1,2-Dclbenz	12.162	146	424261	45.94	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	56773	38.80	ppb	99
112) Trielution Dichlorotol...	12.900	125	1179190	139.63	ppb	98
113) 1,3,5 Trichlorobenzene	12.949	180	322812	46.67	ppb	98
114) Coelution Dichlorotoluene	13.229	125	857946	90.69	ppb	97
115) 1,2,4-Tcbenzene	13.436	180	322391	45.33	ppb	98
116) Hexachlorobt	13.564	225	129290	45.38	ppb	98
117) Naphthalen	13.631	128	953184	42.60	ppb	98
118) 1,2,3-Tclbenzene	13.814	180	312831	44.53	ppb	95
119) 2,4,5-Trichlorotoluene	14.394	159	207206	38.70	ppb	98
120) 2,3,6-Trichlorotoluene	14.479	159	216281	39.06	ppb	95

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

1st 09/29/19
 2nd 10/01/19
 Data Path : I:\ACQDATA\msvoa12\Data\092919\
 Data File : P30419.D
 Acq On : 29 Sep 2019 9:50 am
 Operator : K.Ruest
 Sample : CCV
 PALS Vial : 1 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Sep 29 10:09:26 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

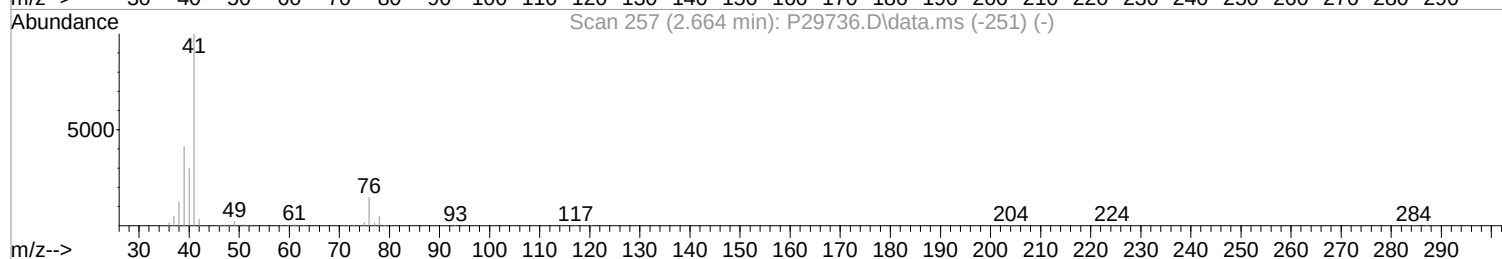
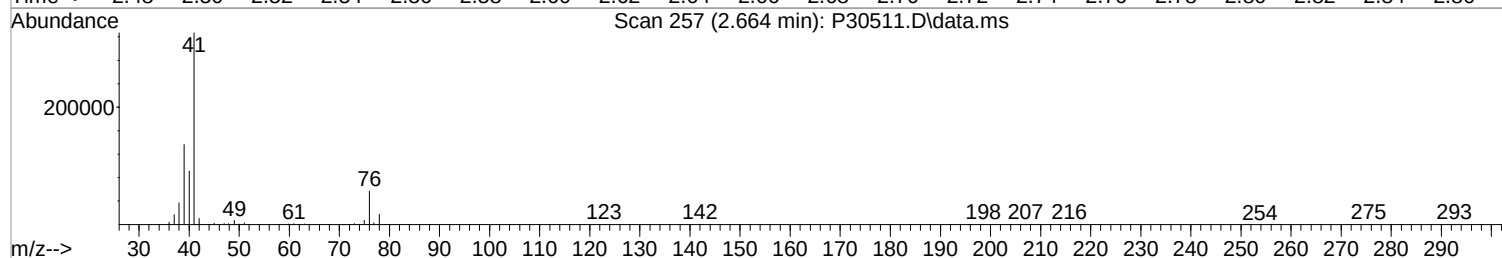
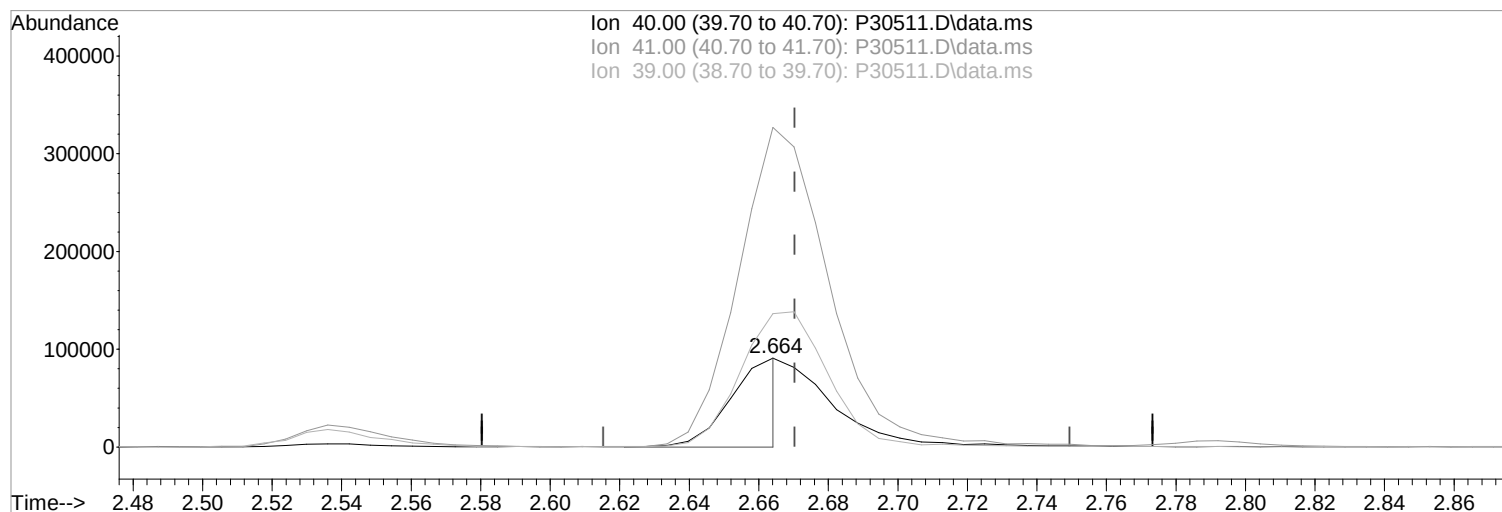


TIC: P30419.D\data.ms

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30511.D
Acq On : 1 Oct 2019 10:44 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:01:08 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30511.D\data.ms

(19) Acetonitrile

2.664min (-0.006) 252.17 ppb m

response 90643

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	359.60#
39.00	137.60	149.99
0.00	0.00	0.00

Manual Integration:

After

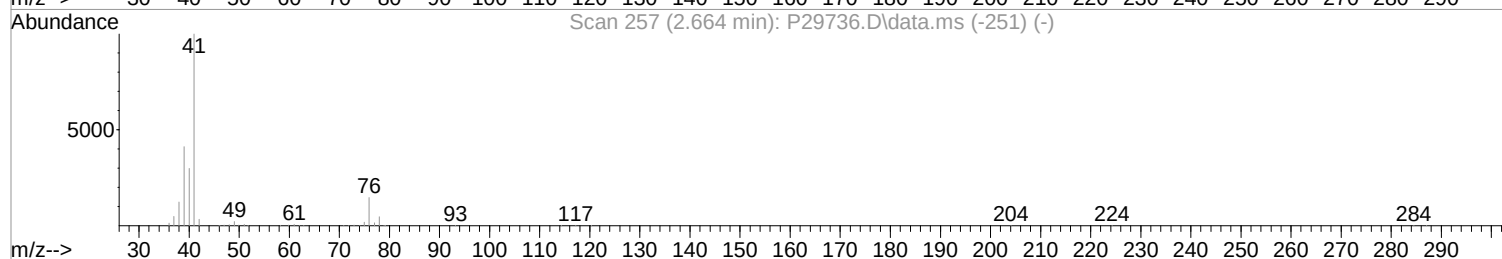
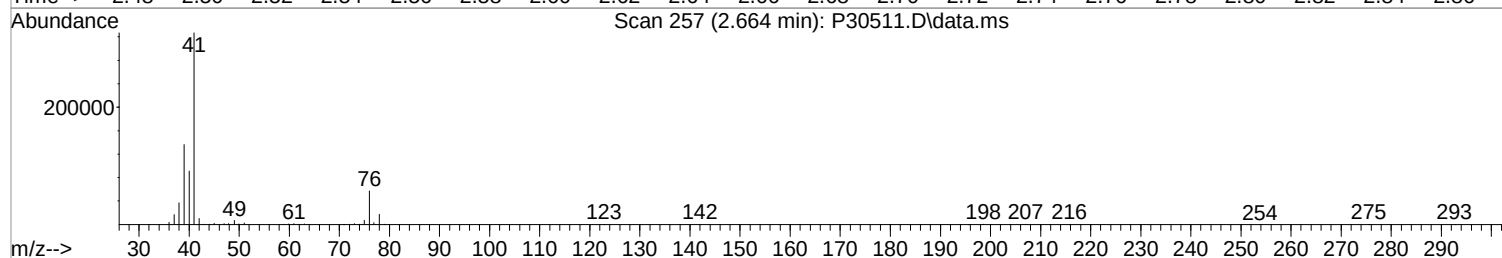
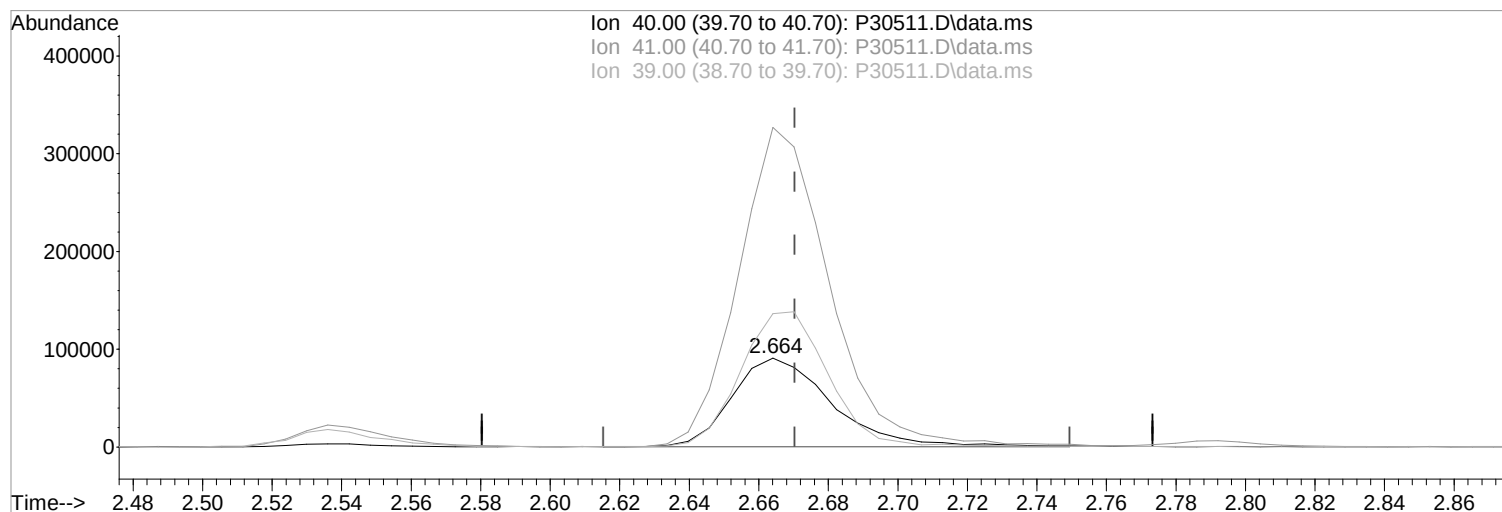
Poor integration.

10/01/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30511.D
Acq On : 1 Oct 2019 10:44 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:01:08 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P30511.D\data.ms

(19) Acetonitrile

Manual Integration:

2.664min (-0.006) 503.95 ppb

Before

response 181144

Ion	Exp%	Act%

10/01/19

40.00	100	100

41.00	334.20	359.60#

39.00	137.60	149.99

0.00	0.00	0.00

Evaluate Continuing Calibration Report

1st *RL* 10/01/192nd *FJ* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\

Data File : P30511.D

Acq On : 1 Oct 2019 10:44 am

Operator : K.Ruest

Sample : CCV

Misc :

Inst : MSVOA-12

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 11:01:37 2019

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Thu Sep 12 10:44:40 2019

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	103	0.00
2 P	Dichlorodifluoromethane	50.0000	57.3537	-14.7	109	0.00
3 P	Chloromethane	50.0000	49.6538	0.7	104	0.00
4 P	Vinyl Chloride	50.0000	50.1728	-0.3	101	0.00
5 P	Bromomethane	50.0000	53.2085	-6.4	110	0.00
6 P	Chloroethane	50.0000	47.3886	5.2	98	0.00
7	Freon 21	50.0000	46.2885	7.4	99	0.00
8 P	Trichlorofluoromethane	50.0000	51.0469	-2.1	100	0.00
9	Diethyl Ether	50.0000	46.8880	6.2	95	0.00
10	Freon 123a	50.0000	43.3126	13.4	96	0.00
11	Freon 123	50.0000	42.7711	14.5	94	0.00
12	Acrolein	250.0000	261.9677	-4.8	108	0.00
13 P	1,1-Dicethene	50.0000	48.2464	3.5	99	0.00
14 P	Freon 113	50.0000	49.2381	1.5	103	0.00
15 P	Acetone	50.0000	46.5649	6.9	99	0.00
16	2-Propanol	1000.0000	850.9781	14.9	88	0.00
17	Iodomethane	50.0000	48.7830	2.4	95	0.00
18 P	Carbon Disulfide	50.0000	42.8449	14.3	87	0.00
19	Acetonitrile	250.0000	252.1739	-0.9	112	0.00
20	Allyl Chloride	50.0000	51.4410	-2.9	112	0.00
21 P	Methyl Acetate	50.0000	44.5115	11.0	94	0.00
22 P	Methylene Chloride	50.0000	42.6963	14.6	98	0.00
23	TBA	1000.0000	875.6512	12.4	89	0.00
24	Acrylonitrile	250.0000	234.6381	6.1	93	0.00
25 P	Methyl-t-Butyl Ether	50.0000	45.6183	8.8	93	-0.01
26 P	trans-1,2-Dichloroethene	50.0000	48.1665	3.7	101	0.00
27	Halothane	-1.0000	0.0000	0.0	0	-4.22#
28 P	1,1-Dicethane	50.0000	46.8393	6.3	96	0.00
29	Vinyl Acetate	50.0000	50.0454	-0.1	113	-0.01
30	DIPE	50.0000	45.5464	8.9	94	0.00
31	2-Chloro-1,3-Butadiene	50.0000	45.1011	9.8	90	0.00
32	ETBE	50.0000	43.8006	12.4	91	0.00
33	2,2-Dichloropropane	50.0000	49.1758	1.6	99	0.00
34 P	cis-1,2-Dichloroethene	50.0000	47.2881	5.4	97	0.00
35 P	2-Butanone	50.0000	46.8917	6.2	99	-0.02
36	Propionitrile	250.0000	235.9564	5.6	94	0.00
37	Bromochloromethane	50.0000	45.4379	9.1	96	0.00
38	Methacrylonitrile	50.0000	44.9807	10.0	92	-0.01
39	Tetrahydrofuran	50.0000	45.7190	8.6	94	-0.02
40 P	Chloroform	50.0000	45.8328	8.3	96	0.00
41 P	1,1,1-Trichloroethane	50.0000	46.7229	6.6	98	0.00
42	TAME	50.0000	44.1054	11.8	89	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	100	0.00
44 P	Cyclohexane	50.0000	47.6983	4.6	99	0.00
45 s	surr4,Dibrflmethane	50.0000	48.5576	2.9	97	0.00
46 P	Carbontetrachloride	50.0000	50.5468	-1.1	100	0.00
47	1,1-Dichloropropene	50.0000	48.9901	2.0	96	0.00
48 s	surr1,1,2-dichloroethane-d4	50.0000	49.0164	2.0	96	0.00
49 P	Benzene	50.0000	48.6255	2.7	96	0.00
50 P	1,2-Dichloroethane	50.0000	46.6358	6.7	94	0.00
51	Iso-Butyl Alcohol	1000.0000	912.3918	8.8	93	-0.01

Evaluate Continuing Calibration Report

1st *10/01/19*2nd *10/07/19*

Data Path : I:\ACQUDATA\msvoa12\Data\100119\

Data File : P30511.D

Acq On : 1 Oct 2019 10:44 am

Operator : K.Ruest

Sample : CCV

Misc :

Inst : MSVOA-12

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 11:01:37 2019

Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Thu Sep 12 10:44:40 2019

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	53.8494	-7.7	108	0.00
53	1-Butanol	2500.0000	2355.7064	5.8	89	-0.01
54 P	Trichloroethene	50.0000	51.1918	-2.4	100	0.00
55 P	Methylcyclohexane	50.0000	47.2252	5.5	98	0.00
56 P	1,2-Dichloropropane	50.0000	47.3352	5.3	94	0.00
57	Dibromomethane	50.0000	50.5148	-1.0	99	0.00
58	1,4-Dioxane	1000.0000	880.2181	12.0	92	-0.01
59	Methyl Methacrylate	50.0000	50.2956	-0.6	93	0.00
60 P	Bromodichloromethane	50.0000	48.6517	2.7	95	0.00
61	2-Nitropropane	100.0000	113.3853	-13.4	130	0.00
62	2-Chloroethylvinyl Ether	50.0000	35.0767	29.8#	65	0.00
63 P	cis-1,3-Dichloropropene	50.0000	49.0215	2.0	94	0.00
64 P	4-Methyl-2-pentanone	50.0000	48.1646	3.7	95	0.00
65 s	SURR3, Toluene-d8	50.0000	49.4000	1.2	98	0.00
66 P	Toluene	50.0000	49.8729	0.3	97	0.00
67 P	trans-1,3-Dichloropropene	50.0000	48.5254	2.9	94	0.00
68	Ethyl Methacrylate	50.0000	49.1278	1.7	93	0.00
69 P	1,1,2-Trichloroethane	50.0000	48.9475	2.1	94	0.00
70 s	SURR2, BFB	50.0000	48.5985	2.8	98	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	100	0.00
72 P	Tetrachloroethene	50.0000	50.0612	-0.1	106	0.00
73 P	2-Hexanone	50.0000	46.7395	6.5	94	0.00
74	1,3-Dichloropropane	50.0000	46.9447	6.1	94	0.00
75 P	Dibromochloromethane	50.0000	48.4329	3.1	98	0.00
76	N-Butyl Acetate	50.0000	46.7619	6.5	89	0.00
77 P	1,2-Dibromoethane	50.0000	46.8621	6.3	95	0.00
78 P	Chlorobenzene	50.0000	48.2645	3.5	98	0.00
79	3-CBTF	50.0000	49.8818	0.2	105	0.00
80	4-CBTF	50.0000	49.6537	0.7	105	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	51.1161	-2.2	101	0.00
82 P	Ethylbenzene	50.0000	48.5528	2.9	98	0.00
83 P	(m+p)Xylene	100.0000	100.8922	-0.9	99	0.00
84 P	o-Xylene	50.0000	49.0977	1.8	100	0.00
85 P	Styrene	50.0000	50.2351	-0.5	97	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	102	0.00
87 P	Bromoform	50.0000	50.6588	-1.3	102	0.00
88	2-CBTF	50.0000	49.7711	0.5	104	0.00
89 P	Isopropylbenzene	50.0000	52.0578	-4.1	101	0.00
90	Cyclohexanone	1000.0000	1574.4159	-57.4#	160	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	42.1894	15.6	86	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	48.0868	3.8	93	0.00
93	Bromobenzene	50.0000	49.0098	2.0	101	0.00
94	1,2,3-Trichloropropane	50.0000	45.1114	9.8	96	0.00
95	n-Propylbenzene	50.0000	51.9080	-3.8	100	0.00
96	2-Chlorotoluene	50.0000	48.9478	2.1	98	0.00
97	3-Chlorotoluene	50.0000	47.6782	4.6	96	0.00
98	4-Chlorotoluene	50.0000	50.2080	-0.4	97	0.00
99	1,3,5-Trimethylbenzene	50.0000	50.7255	-1.5	98	0.00
100	tert-Butylbenzene	50.0000	50.8003	-1.6	100	0.00
101	1,2,4-Trimethylbenzene	50.0000	53.0520	-6.1	100	0.00

Evaluate Continuing Calibration Report

 1st *FR* 10/01/19
 2nd *FR* 10/07/19

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30511.D
 Acq On : 1 Oct 2019 10:44 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:01:37 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	48.4851	3.0	104	0.00
103	sec-Butylbenzene	50.0000	51.7059	-3.4	100	0.00
104	p-Isopropyltoluene	50.0000	52.6027	-5.2	101	0.00
105 P	1,3-Dclbenz	50.0000	48.7650	2.5	101	0.00
106 P	1,4-Dclbenz	50.0000	47.9999	4.0	99	0.00
107	2,4-DCBTF	50.0000	48.5299	2.9	103	0.00
108	2,5-DCBTF	50.0000	49.3120	1.4	104	0.00
109	n-Butylbenzene	50.0000	50.7941	-1.6	99	0.00
110 P	1,2-Dclbenz	50.0000	49.5076	1.0	100	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	45.0045	10.0	90	0.00
112	Trielution Dichlorotoluene	150.0000	144.4767	3.7	96	0.00
113	1,3,5 Trichlorobenzene	50.0000	48.8500	2.3	102	0.00
114	Coelution Dichlorotoluene	100.0000	96.5467	3.5	97	0.00
115 P	1,2,4-Tclbenzene	50.0000	48.5213	3.0	101	0.00
116	Hexachlorobt	50.0000	49.0661	1.9	101	0.00
117	Naphthalen	50.0000	48.2618	3.5	90	0.00
118	1,2,3-Tclbenzene	50.0000	48.8973	2.2	99	0.00
119	2,4,5-Trichlorotoluene	50.0000	43.1746	13.7	88	0.00
120	2,3,6-Trichlorotoluene	50.0000	43.2070	13.6	88	0.00

(#) = Out of Range

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

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30511.D
 Acq On : 1 Oct 2019 10:44 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:01:37 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	332773	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	533366	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	480466	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	255930	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	137260	48.56	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.12%	
48) surr1,1,2-dichloroetha...	5.852	65	191725	49.02	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	98.04%	
65) SURR3,Toluene-d8	8.315	98	657397	49.40	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.80%	
70) SURR2,BFB	10.870	95	251623	48.60	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.20%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.195	85	235895	57.35	ppb	98
3) Chloromethane	1.323	50	314623	49.65	ppb	99
4) Vinyl Chloride	1.396	62	296754	50.17	ppb	97
5) Bromomethane	1.622	94	147107	53.21	ppb	96
6) Chloroethane	1.701	64	168766	47.39	ppb	99
7) Freon 21	1.859	67	305167	46.29	ppb	98
8) Trichlorofluoromethane	1.896	101	244807	51.05	ppb	93
9) Diethyl Ether	2.140	59	198236	46.89	ppb	98
10) Freon 123a	2.146	67	199603	43.31	ppb	99
11) Freon 123	2.201	83	217410	42.77	ppb	98
12) Acrolein	2.256	56	308493	261.97	ppb	99
13) 1,1-Dicethene	2.329	96	157064	48.25	ppb	96
14) Freon 113	2.329	101	155849	49.24	ppb	90
15) Acetone	2.402	43	126105	46.56	ppb	99
16) 2-Propanol	2.536	45	524058	850.98	ppb	99
17) Iodomethane	2.463	142	198116	48.78	ppb	99
18) Carbon Disulfide	2.518	76	417931	42.84	ppb	99
19) Acetonitrile	2.664	40	90643m	252.17	ppb	
20) Allyl Chloride	2.670	76	96017	51.44	ppb	97
21) Methyl Acetate	2.701	43	238900	44.51	ppb	98
22) Methylene Chloride	2.792	84	181030	42.70	ppb	96
23) TBA	2.951	59	798268	875.65	ppb	98
24) Acrylonitrile	3.079	53	651786	234.64	ppb	98
25) Methyl-t-Butyl Ether	3.091	73	624961	45.62	ppb	99
26) trans-1,2-Dichloroethene	3.079	96	170263	48.17	ppb	93
28) 1,1-Dicethane	3.591	63	342494	46.84	ppb	98
29) Vinyl Acetate	3.688	86	47379	50.05	ppb	# 81
30) DIPE	3.700	45	725205	45.55	ppb	100
31) 2-Chloro-1,3-Butadiene	3.700	53	266966	45.10	ppb	97
32) ETBE	4.237	59	627840	43.80	ppb	97
33) 2,2-Dichloropropane	4.426	77	263652	49.18	ppb	98
34) cis-1,2-Dichloroethene	4.444	96	191878	47.29	ppb	93
35) 2-Butanone	4.523	43	177376	46.89	ppb	94
36) Propionitrile	4.633	54	276893	235.96	ppb	97
37) Bromochloromethane	4.847	130	109061	45.44	ppb	95
38) Methacrylonitrile	4.889	67	124829	44.98	ppb	# 81
39) Tetrahydrofuran	4.950	42	121034	45.72	ppb	96
40) Chloroform	5.036	83	295372	45.83	ppb	97
41) 1,1,1-Trichloroethane	5.304	97	240077	46.72	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30511.D
 Acq On : 1 Oct 2019 10:44 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:01:37 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	582612	44.11	ppb	96
44) Cyclohexane	5.359	41	203148	47.70	ppb	96
46) Carbontetrachloride	5.566	117	183604	50.55	ppb	99
47) 1,1-Dichloropropene	5.584	75	252791	48.99	ppb	96
49) Benzene	5.907	78	779658	48.63	ppb	98
50) 1,2-Dichloroethane	5.968	62	254161	46.64	ppb	98
51) Iso-Butyl Alcohol	5.968	43	416555	912.39	ppb	99
52) n-Heptane	6.352	43	323047	53.85	ppb	95
53) 1-Butanol	6.907	56	616627	2355.71	ppb	99
54) Trichloroethene	6.840	130	182512	51.19	ppb	98
55) Methylcyclohexane	7.053	55	271335	47.23	ppb	98
56) 1,2-Dichloropropane	7.133	63	209471	47.34	ppb	90
57) Dibromomethane	7.279	93	110876	50.51	ppb	99
58) 1,4-Dioxane	7.346	88	90072	880.22	ppb	96
59) Methyl Methacrylate	7.352	69	207175	50.30	ppb	95
60) Bromodichloromethane	7.498	83	207166	48.65	ppb	98
61) 2-Nitropropane	7.809	41	76290	113.39	ppb	89
62) 2-Chloroethylvinyl Ether	7.901	63	104332	35.08	ppb	98
63) cis-1,3-Dichloropropene	8.035	75	310095	49.02	ppb	97
64) 4-Methyl-2-pentanone	8.248	43	329777	48.16	ppb	94
66) Toluene	8.389	91	808876	49.87	ppb	97
67) trans-1,3-Dichloropropene	8.675	75	282450	48.53	ppb	96
68) Ethyl Methacrylate	8.803	69	353866	49.13	ppb	99
69) 1,1,2-Trichloroethane	8.864	97	176245	48.95	ppb	96
72) Tetrachloroethene	8.968	164	145056	50.06	ppb	95
73) 2-Hexanone	9.151	43	250011	46.74	ppb	97
74) 1,3-Dichloropropane	9.029	76	338206	46.94	ppb	98
75) Dibromochloromethane	9.254	129	144142	48.43	ppb	95
76) N-Butyl Acetate	9.291	43	476635	46.76	ppb	98
77) 1,2-Dibromoethane	9.346	107	175913	46.86	ppb	98
78) Chlorobenzene	9.827	112	511608	48.26	ppb	98
79) 3-CBTF	9.846	180	272429	49.88	ppb	96
80) 4-CBTF	9.900	180	244465	49.65	ppb	95
81) 1,1,1,2-Tetrachloroethane	9.919	131	161467	51.12	ppb	98
82) Ethylbenzene	9.943	106	279421	48.55	ppb	96
83) (m+p)Xylene	10.053	106	701491	100.89	ppb	100
84) o-Xylene	10.413	106	347372	49.10	ppb	95
85) Styrene	10.425	104	588605	50.24	ppb	100
87) Bromoform	10.589	173	90872	50.66	ppb	91
88) 2-CBTF	10.663	180	265839	49.77	ppb	97
89) Isopropylbenzene	10.742	105	909181	52.06	ppb	99
90) Cyclohexanone	10.827	55	1175213	1574.42	ppb	99
91) trans-1,4-Dichloro-2-B...	11.065	53	81293	42.19	ppb	98
92) 1,1,2,2-Tetrachloroethane	11.016	83	279721	48.09	ppb	96
93) Bromobenzene	10.992	156	210867	49.01	ppb	98
94) 1,2,3-Trichloropropane	11.047	110	86383	45.11	ppb	93
95) n-Propylbenzene	11.095	91	1084680	51.91	ppb	97
96) 2-Chlorotoluene	11.162	91	645458	48.95	ppb	98
97) 3-Chlorotoluene	11.217	91	638540	47.68	ppb	99
98) 4-Chlorotoluene	11.254	91	714781	50.21	ppb	95
99) 1,3,5-Trimethylbenzene	11.248	105	737780	50.73	ppb	100
100) tert-Butylbenzene	11.516	119	650283	50.80	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	766057	53.05	ppb	99
102) 3,4-DCBTF	11.620	214	213590	48.49	ppb	98
103) sec-Butylbenzene	11.699	105	957712	51.71	ppb	99
104) p-Isopropyltoluene	11.821	119	834131	52.60	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
Data File : P30511.D
Acq On : 1 Oct 2019 10:44 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Oct 01 11:01:37 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	417943	48.76	ppb	99
106) 1,4-Dclbenz	11.857	146	421145	48.00	ppb	97
107) 2,4-DCBTF	11.912	214	195084	48.53	ppb	99
108) 2,5-DCBTF	11.955	214	220483	49.31	ppb	98
109) n-Butylbenzene	12.150	91	787650	50.79	ppb	98
110) 1,2-Dclbenz	12.162	146	419817	49.51	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.796	157	60474	45.00	ppb	96
112) Trielution Dichlorotol...	12.900	125	1120350	144.48	ppb	97
113) 1,3,5 Trichlorobenzene	12.949	180	310261	48.85	ppb	100
114) Coelution Dichlorotoluene	13.229	125	838680	96.55	ppb	96
115) 1,2,4-Tcbenzene	13.436	180	316869	48.52	ppb	99
116) Hexachlorobt	13.564	225	128358	49.07	ppb	95
117) Naphthalen	13.631	128	991695	48.26	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	315416	48.90	ppb	100
119) 2,4,5-Trichlorotoluene	14.400	159	212278	43.17	ppb	98
120) 2,3,6-Trichlorotoluene	14.485	159	219678	43.21	ppb	96

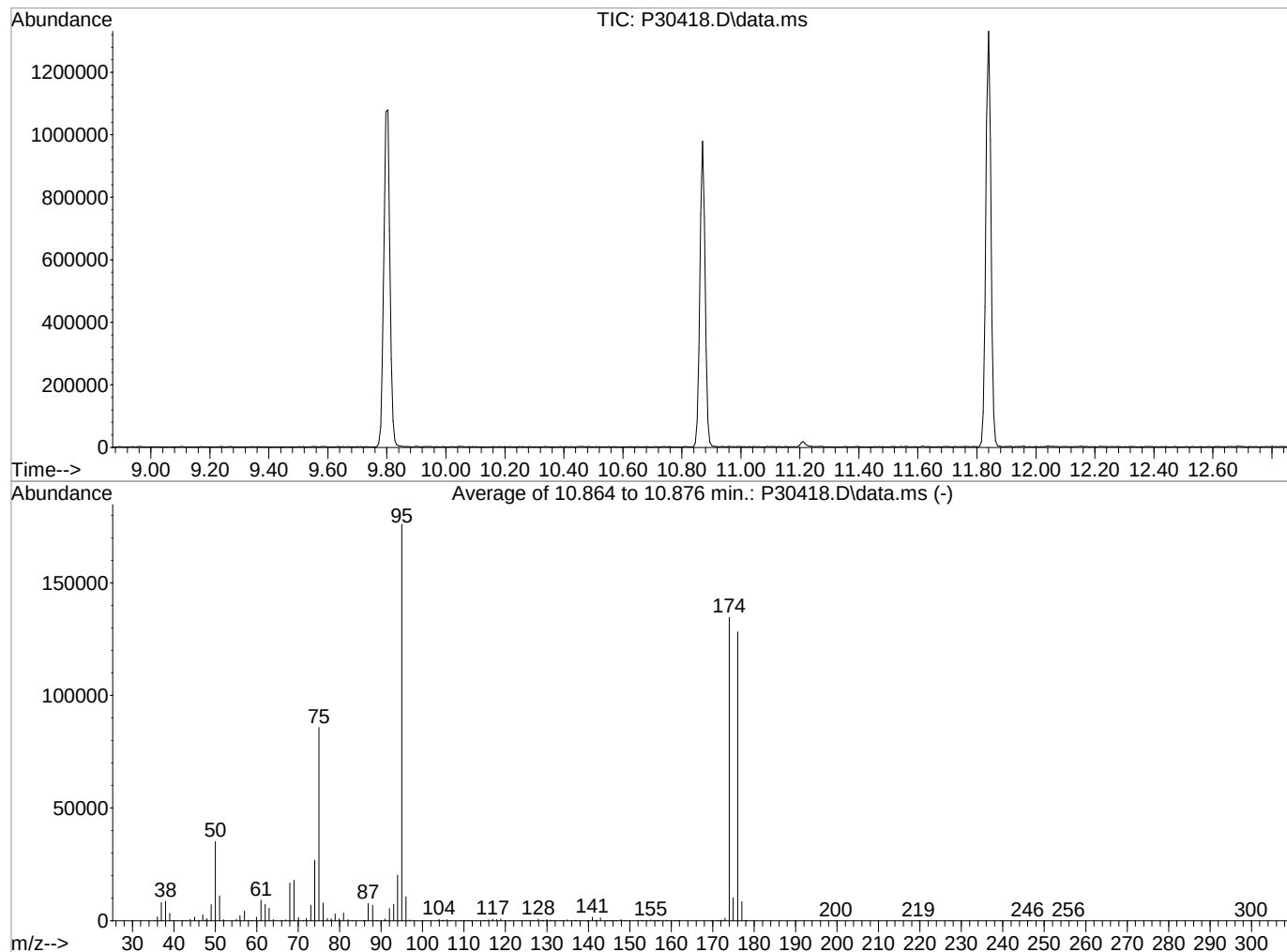
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\092919\
Data File : P30418.D
Acq On : 29 Sep 2019 9:20 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Sep 12 10:44:40 2019



AutoFind: Scans 1602, 1603, 1604; Background Corrected with Scan 1595

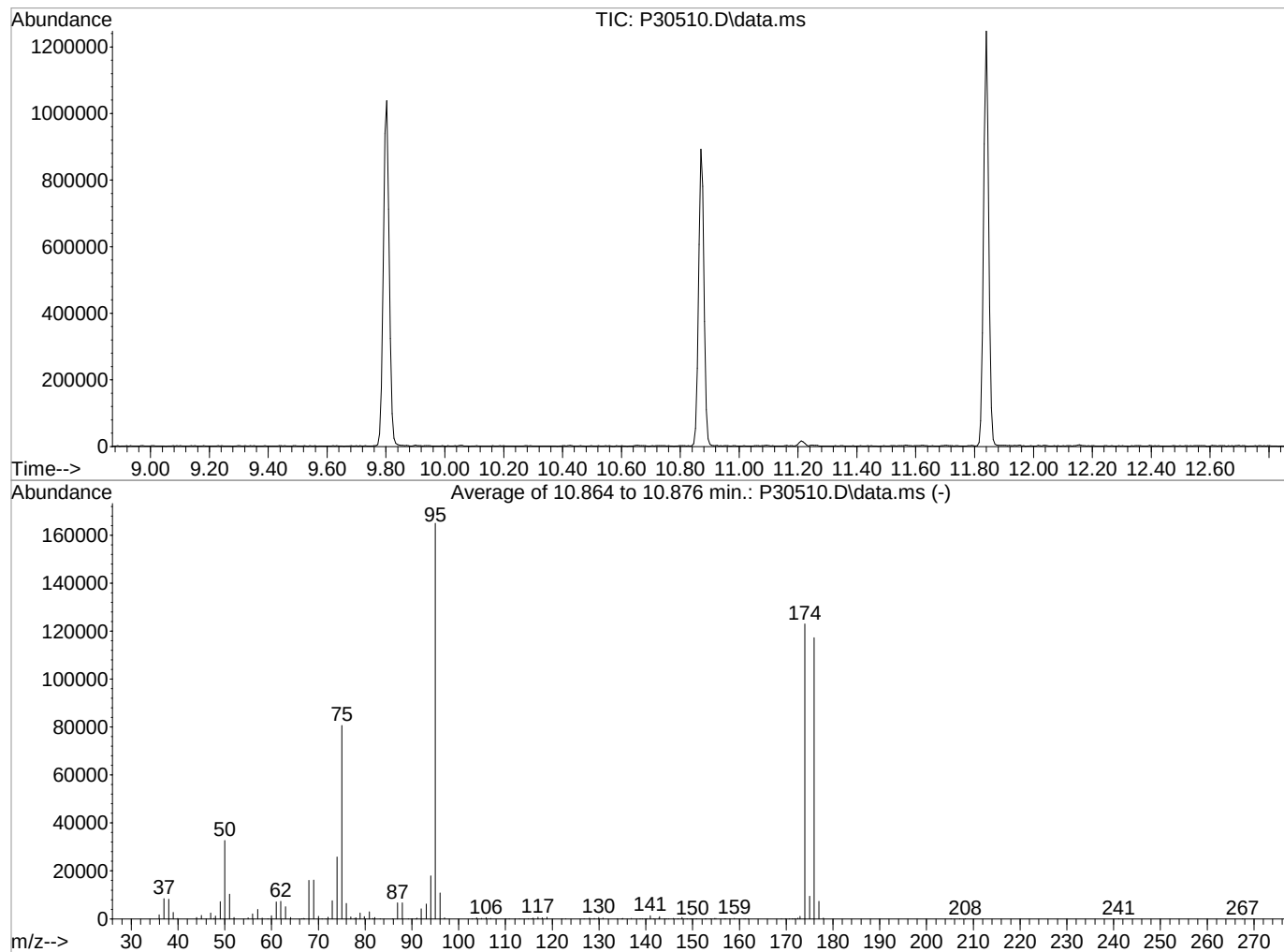
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	35147	PASS
75	95	30	60	48.7	85771	PASS
95	95	100	100	100.0	176085	PASS
96	95	5	9	6.0	10608	PASS
173	174	0.00	2	0.9	1158	PASS
174	95	50	120	76.5	134723	PASS
175	174	5	9	7.6	10252	PASS
176	174	95	101	95.2	128261	PASS
177	176	5	9	6.6	8485	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\100119\
 Data File : P30510.D
 Acq On : 1 Oct 2019 10:15 am
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Thu Sep 12 10:44:40 2019



AutoFind: Scans 1602, 1603, 1604; Background Corrected with Scan 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	32680	PASS
75	95	30	60	48.9	80653	PASS
95	95	100	100	100.0	165077	PASS
96	95	5	9	6.5	10791	PASS
173	174	0.00	2	0.8	1013	PASS
174	95	50	120	74.6	123093	PASS
175	174	5	9	7.7	9442	PASS
176	174	95	101	95.3	117261	PASS
177	176	5	9	6.3	7382	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29739.D
 Acq On : 11 Sep 2019 6:28 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:50:34 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	329762	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	550163	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	492719	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.845	152	279593	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	144813	49.67	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.34%	
48) surr1,1,2-dichloroetha...	5.846	65	205796	51.01	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	102.02%	
65) SURR3,Toluene-d8	8.315	98	688761	50.18	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.36%	
70) SURR2,BFB	10.870	95	281699	52.75	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	105.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.189	85	835524	204.97	ppb	95
3) Chloromethane	1.317	50	1189927	189.51	ppb	94
4) Vinyl Chloride	1.390	62	1114747	190.21	ppb	96
5) Bromomethane	1.615	94	556200	174.82	ppb	91
6) Chloroethane	1.682	64	676108	191.57	ppb	100
7) Freon 21	1.847	67	1258200	192.59	ppb	99
8) Trichlorofluoromethane	1.884	101	963519	202.73	ppb	94
9) Diethyl Ether	2.134	59	826357	197.24	ppb	97
10) Freon 123a	2.140	67	859261	188.12	ppb	100
11) Freon 123	2.195	83	950098	188.62	ppb	98
12) Acrolein	2.249	56	1219763	1045.26	ppb	98
13) 1,1-Dicethene	2.316	96	647899	200.84	ppb	93
14) Freon 113	2.316	101	620892	197.95	ppb	99
15) Acetone	2.396	43	511030	190.42	ppb	99
16) 2-Propanol	2.542	45	2479426	4062.93	ppb	93
17) Iodomethane	2.457	142	881495	237.27	ppb	98
18) Carbon Disulfide	2.512	76	1819663	188.25	ppb	96
19) Acetonitrile	2.658	40	346022m	842.06	ppb	
20) Allyl Chloride	2.658	76	348240	189.07	ppb	# 89
21) Methyl Acetate	2.701	43	1086866	204.35	ppb	97
22) Methylene Chloride	2.786	84	752763	179.16	ppb	96
23) TBA	2.950	59	3559823	3940.56	ppb	93
24) Acrylonitrile	3.072	53	2641204	965.26	ppb	96
25) Methyl-t-Butyl Ether	3.085	73	2617151	192.78	ppb	96
26) trans-1,2-Dichloroethene	3.072	96	714986	202.57	ppb	92
28) 1,1-Dicethane	3.584	63	1453717	200.62	ppb	98
29) Vinyl Acetate	3.682	86	186512	235.90	ppb	# 58
30) DIPE	3.694	45	2965387	187.94	ppb	98
31) 2-Chloro-1,3-Butadiene	3.700	53	1182131	201.75	ppb	99
32) ETBE	4.231	59	2718798	191.41	ppb	99
33) 2,2-Dichloropropane	4.420	77	1090649	205.28	ppb	97
34) cis-1,2-Dichloroethene	4.438	96	794974	198.25	ppb	95
35) 2-Butanone	4.523	43	758998	202.48	ppb	95
36) Propionitrile	4.633	54	1234454	1061.55	ppb	100
37) Bromochloromethane	4.846	130	450622	189.46	ppb	92
38) Methacrylonitrile	4.883	67	565431	205.61	ppb	89
39) Tetrahydrofuran	4.944	42	553375	179.23	ppb	95
40) Chloroform	5.029	83	1237089	193.71	ppb	98
41) 1,1,1-Trichloroethane	5.298	97	1045451	205.32	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29739.D
 Acq On : 11 Sep 2019 6:28 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:50:34 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	2580844	197.16	ppb	94
44) Cyclohexane	5.352	41	857910	195.28	ppb	98
46) Carbontetrachloride	5.560	117	827968	217.53	ppb	96
47) 1,1-Dichloropropene	5.578	75	1060838	199.31	ppb	99
49) Benzene	5.901	78	3075242	185.94	ppb	96
50) 1,2-Dichloroethane	5.968	62	1084162	192.86	ppb	98
51) Iso-Butyl Alcohol	5.974	43	2076522	4409.40	ppb	98
52) n-Heptane	6.352	43	1239989	200.42	ppb	97
53) 1-Butanol	6.919	56	3001113	11115.14	ppb	95
54) Trichloroethene	6.840	130	745915	202.83	ppb	98
55) Methylcyclohexane	7.053	55	1149121	193.90	ppb	100
56) 1,2-Dichloropropane	7.133	63	895109	196.10	ppb	90
57) Dibromomethane	7.279	93	471222	208.15	ppb	97
58) 1,4-Dioxane	7.346	88	441875	4199.75	ppb	95
59) Methyl Methacrylate	7.358	69	921970	216.99	ppb	100
60) Bromodichloromethane	7.498	83	928430	211.38	ppb	97
61) 2-Nitropropane	7.809	41	342453	493.43	ppb	98
62) 2-Chloroethylvinyl Ether	7.901	63	653425	211.11	ppb	98
63) cis-1,3-Dichloropropene	8.035	75	1366795	209.47	ppb	97
64) 4-Methyl-2-pentanone	8.248	43	1436099	203.34	ppb	98
66) Toluene	8.388	91	2878078	172.04	ppb	81
67) trans-1,3-Dichloropropene	8.675	75	1279426	213.10	ppb	96
68) Ethyl Methacrylate	8.803	69	1535017	206.61	ppb	99
69) 1,1,2-Trichloroethane	8.864	97	752692	202.66	ppb	98
72) Tetrachloroethene	8.968	164	568330	191.26	ppb	99
73) 2-Hexanone	9.150	43	1126653	205.39	ppb	98
74) 1,3-Dichloropropane	9.029	76	1425990	193.01	ppb	97
75) Dibromochloromethane	9.254	129	697339	228.48	ppb	96
76) N-Butyl Acetate	9.297	43	2031760	194.38	ppb	88
77) 1,2-Dibromoethane	9.346	107	769267	199.83	ppb	99
78) Chlorobenzene	9.827	112	1986576	182.75	ppb	91
79) 3-CBTF	9.845	180	1095758	195.64	ppb	97
80) 4-CBTF	9.900	180	994219	196.92	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.919	131	723453	223.33	ppb	99
82) Ethylbenzene	9.943	106	1168482	197.99	ppb	# 53
83) (m+p)Xylene	10.053	106	2521151	353.59	ppb	# 65
84) o-Xylene	10.412	106	1413400	194.80	ppb	# 67
85) Styrene	10.431	104	2233412	185.87	ppb	91
87) Bromoform	10.589	173	476596	243.20	ppb	95
88) 2-CBTF	10.662	180	1102486	188.94	ppb	99
89) Isopropylbenzene	10.742	105	2953037	154.77	ppb	75
90) Cyclohexanone	10.833	55	2538023	3112.39	ppb	90
91) trans-1,4-Dichloro-2-B...	11.065	53	447623	212.65	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.022	83	1261943	198.58	ppb	95
93) Bromobenzene	10.992	156	888220	188.97	ppb	95
94) 1,2,3-Trichloropropane	11.046	110	397650	190.09	ppb	# 85
95) n-Propylbenzene	11.095	91	3277692	143.58	ppb	69
96) 2-Chlorotoluene	11.162	91	2371650	164.41	ppb	85
97) 3-Chlorotoluene	11.217	91	2387024	163.14	ppb	# 84
98) 4-Chlorotoluene	11.254	91	2554003	164.22	ppb	80
99) 1,3,5-Trimethylbenzene	11.248	105	2613089	164.46	ppb	78
100) tert-Butylbenzene	11.516	119	2385151	170.56	ppb	86
101) 1,2,4-Trimethylbenzene	11.559	105	2590181	164.20	ppb	76
102) 3,4-DCBTF	11.620	214	915617	190.26	ppb	98
103) sec-Butylbenzene	11.699	105	3017730	149.14	ppb	75
104) p-Isopropyltoluene	11.821	119	2727751	157.46	ppb	70

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29739.D
 Acq On : 11 Sep 2019 6:28 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

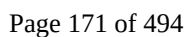
Inst : MSVOA-12

Quant Time: Sep 12 09:50:34 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.790	146	1668057	178.15	ppb	92
106) 1,4-Dclbenz	11.863	146	1698777	177.23	ppb	91
107) 2,4-DCBTF	11.912	214	836695	190.52	ppb	98
108) 2,5-DCBTF	11.955	214	943644	193.19	ppb	97
109) n-Butylbenzene	12.150	91	2661288	157.10	ppb	73
110) 1,2-Dclbenz	12.162	146	1685329	181.92	ppb	94
111) 1,2-Dibromo-3-chloropr...	12.796	157	327261	222.93	ppb	98
112) Trielution Dichlorotol...	12.906	125	4035898	476.41	ppb #	76
113) 1,3,5 Trichlorobenzene	12.955	180	1289962	185.91	ppb	98
114) Coelution Dichlorotoluene	13.229	125	2860998	301.48	ppb #	73
115) 1,2,4-Tcbenzene	13.436	180	1308617	183.43	ppb	97
116) Hexachlorobt	13.564	225	550130	192.49	ppb	98
117) Naphthalen	13.631	128	3213060	143.13	ppb	78
118) 1,2,3-Tclbenzene	13.820	180	1300833	184.59	ppb	96
119) 2,4,5-Trichlorotoluene	14.399	159	966243	179.89	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	1005986	181.12	ppb	93

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

Quant Time : Sep 12 09:50:34 2019
Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10ML Purge
Qlast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration

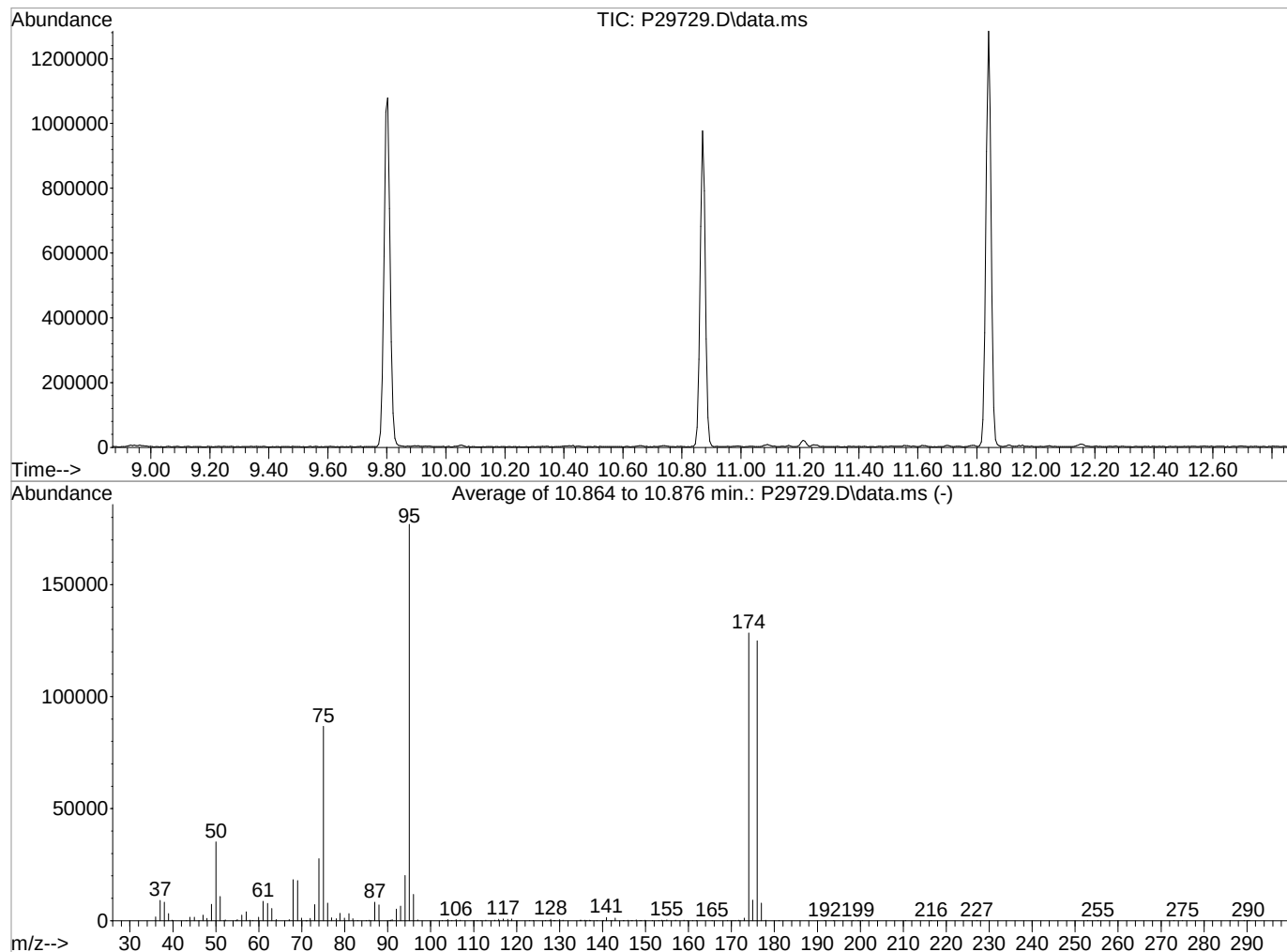


Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29729.D
 Acq On : 11 Sep 2019 2:39 pm
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Wed Sep 11 14:48:56 2019



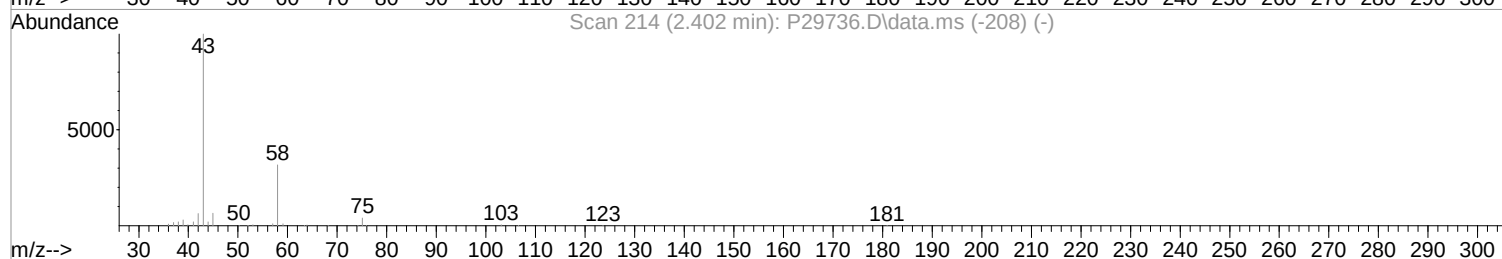
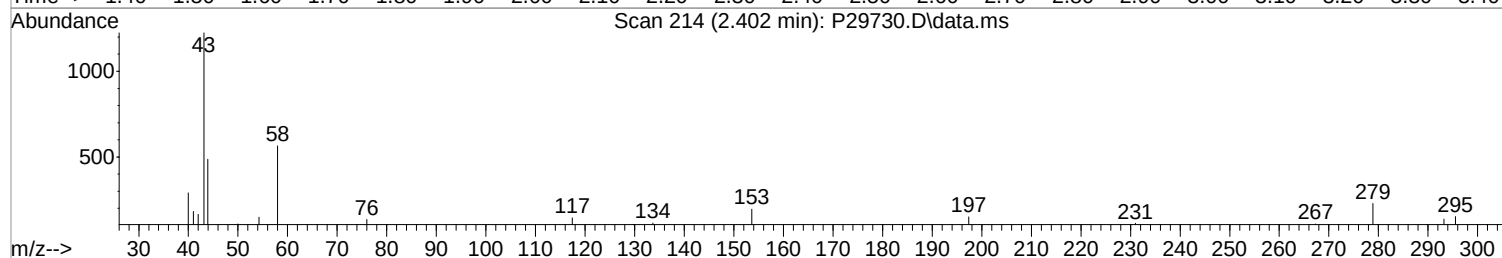
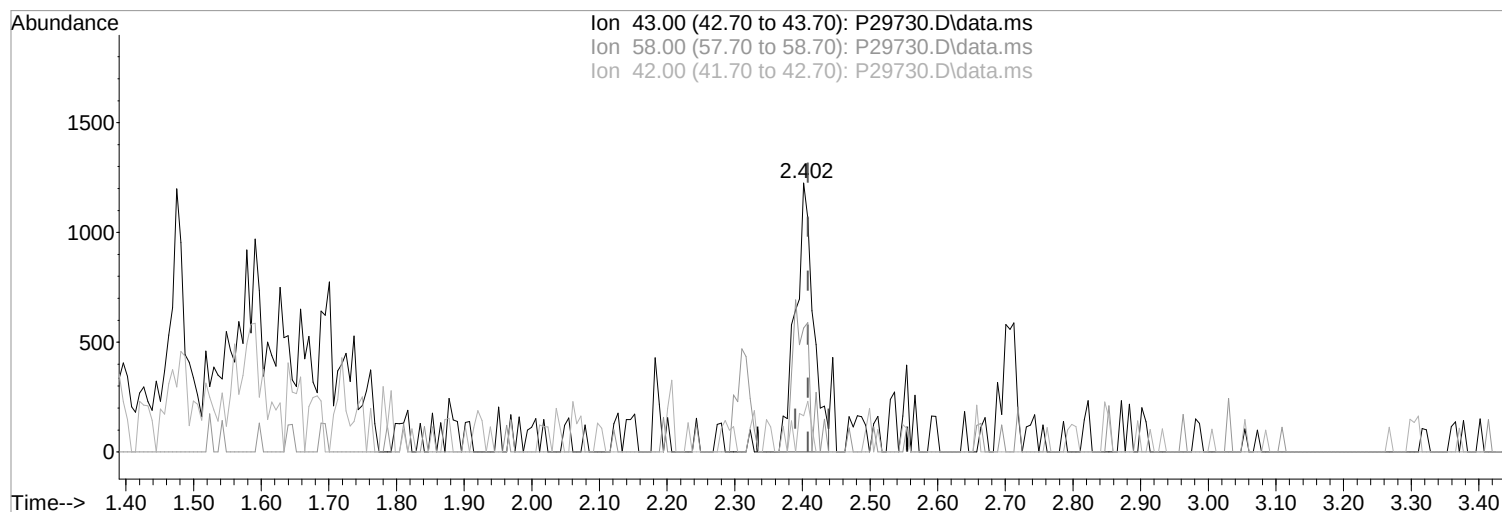
AutoFind: Scans 1602, 1603, 1604; Background Corrected with Scan 1595

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	35115	PASS
75	95	30	60	49.0	86744	PASS
95	95	100	100	100.0	176981	PASS
96	95	5	9	6.6	11701	PASS
173	174	0.00	2	0.9	1122	PASS
174	95	50	120	72.5	128395	PASS
175	174	5	9	7.1	9139	PASS
176	174	95	101	97.3	124885	PASS
177	176	5	9	6.3	7852	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29730.D
Acq On : 11 Sep 2019 3:00 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 11:58:53 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P29730.D\data.ms

(15) Acetone (P)

2.402min (-0.006) 0.83 ppb m

response 2259

Ion	Exp%	Act%
43.00	100	100
58.00	31.70	46.12
42.00	6.50	13.47
0.00	0.00	0.00

Manual Integration:

After

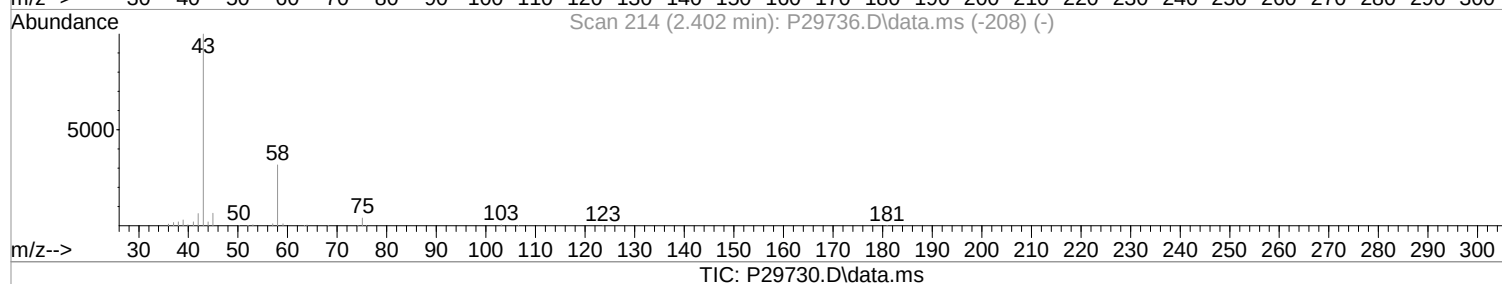
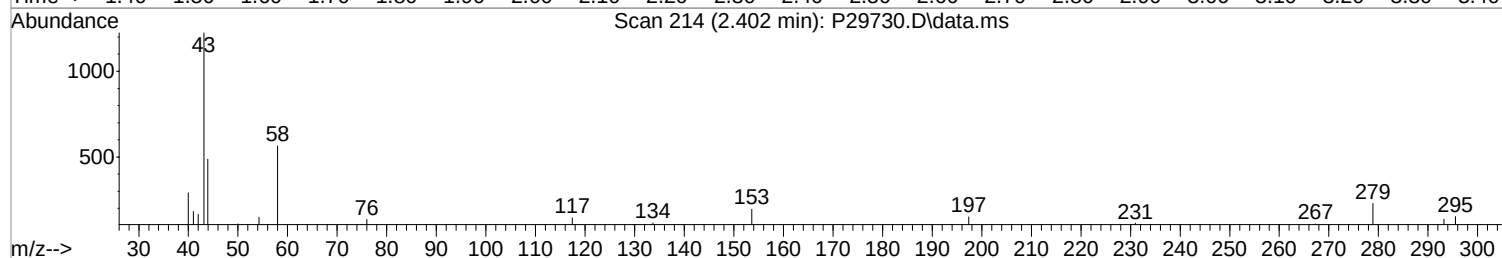
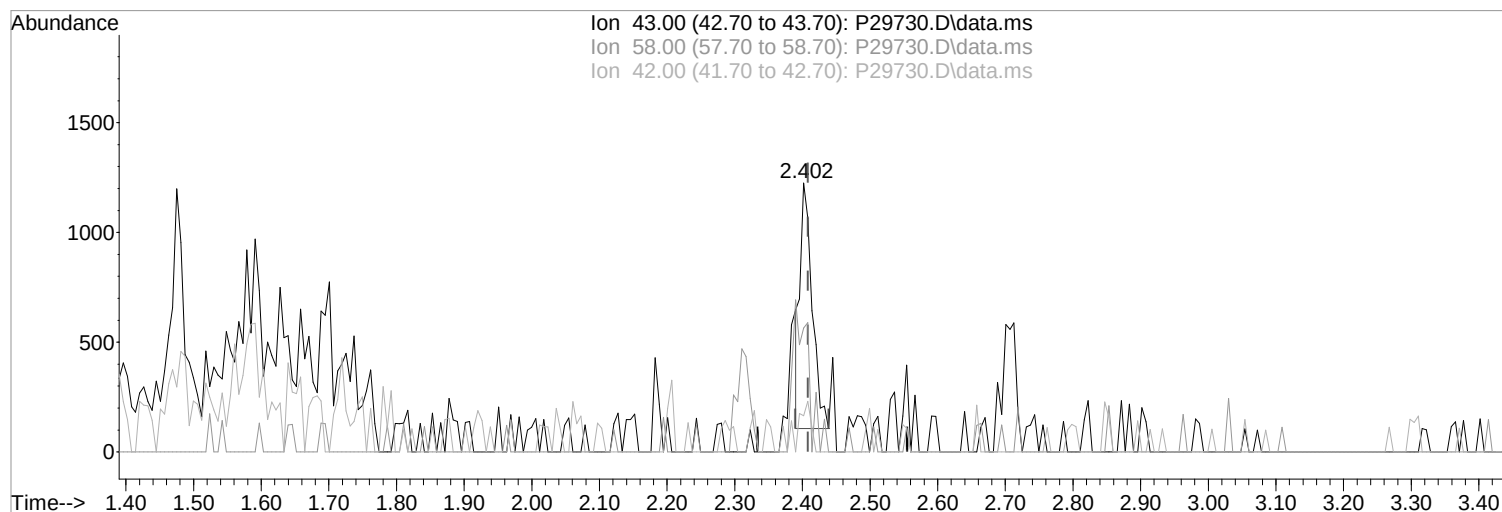
Poor integration.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29730.D
Acq On : 11 Sep 2019 3:00 pm
Operator : K.Ruest
Sample : IBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 11:58:53 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



(15) Acetone (P)

Manual Integration:

2.402min (-0.006) 0.51 ppb

Before

response 1383

Ion	Exp%	Act%
43.00	100	100
58.00	31.70	46.12
42.00	6.50	13.47
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29730.D
 Acq On : 11 Sep 2019 3:00 pm
 Operator : K.Ruest
 Sample : IBLK
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

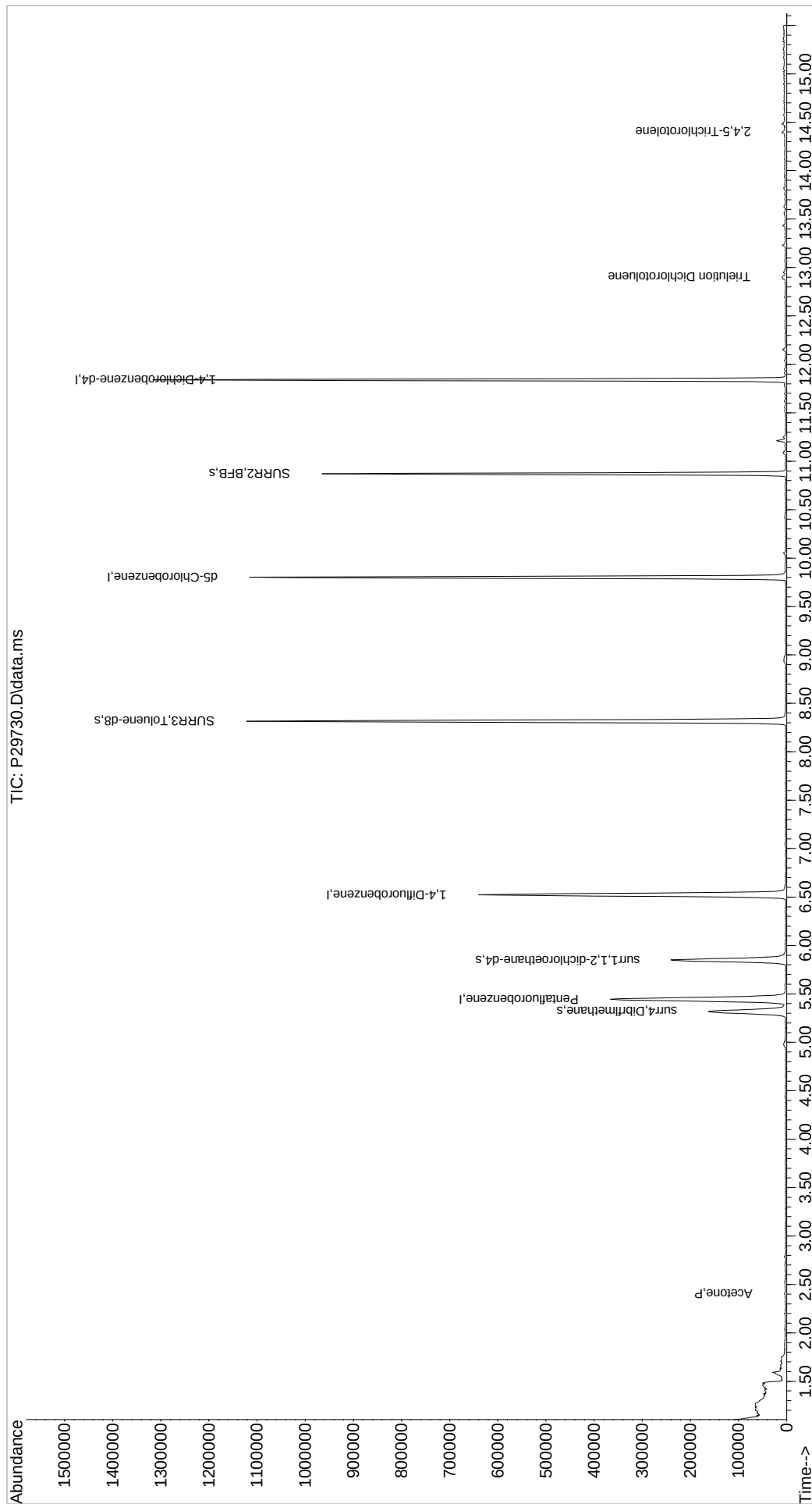
Quant Time: Sep 12 11:59:52 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

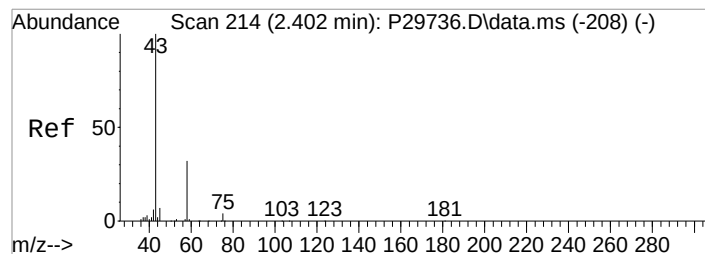
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	332985	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	546934	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	480739	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	251403	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	140192	48.36	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	96.72%	
48) surr1,1,2-dichloroetha...	5.846	65	202785	50.56	ppb	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.12%	
65) SURR3,Toluene-d8	8.315	98	671599	49.22	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.44%	
70) SURR2,BFB	10.870	95	255359	48.10	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.20%	
Target Compounds						
15) Acetone	2.402	43	2259m	0.83	ppb	Qvalue
39) Tetrahydrofuran	4.981	42	4458	Below	Cal	78
112) Trielution Dichlorotol...	12.900	125	2846	0.37	ppb	# 73
119) 2,4,5-Trichlorotolene	14.400	159	1006	0.21	ppb	# 88

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

Data Path : I:\ACQUDATA\msvoa12\Data\0911119\
 Data File : P29730.D
 Acq On : 11 Sep 2019 3:00 pm
 Operator : K.Ruest
 Sample : IBLK
 Misc :
 ALS Vial : 3 Sample Multiplier: 1
 Inst : MSV0A-12

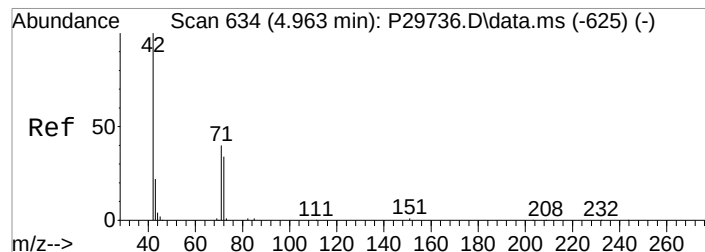
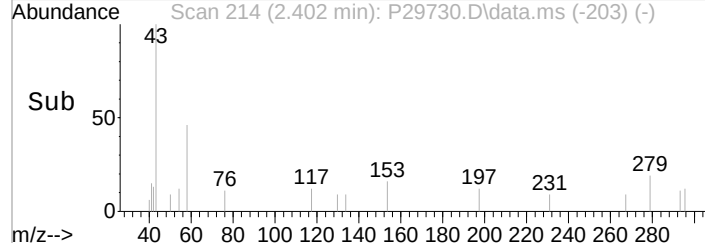
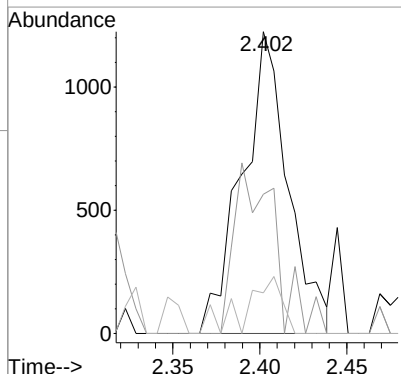
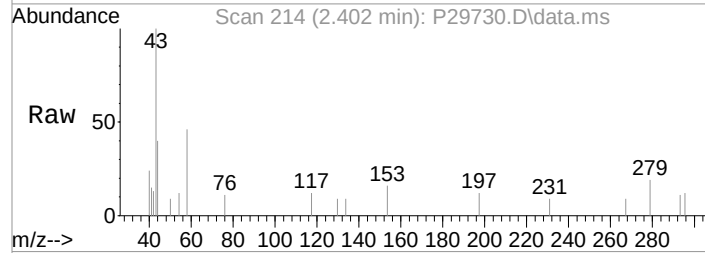
Quant Time: Sep 12 11:59:52 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W0911119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration





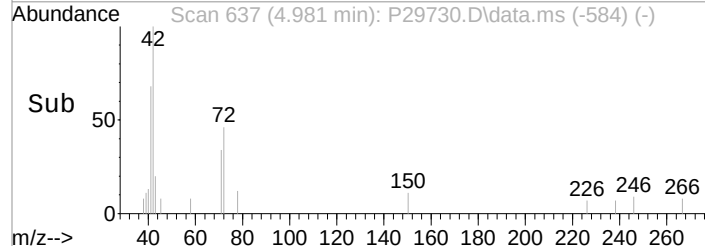
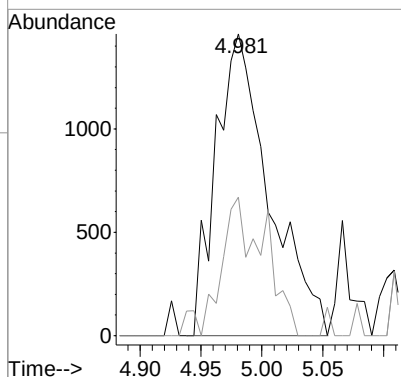
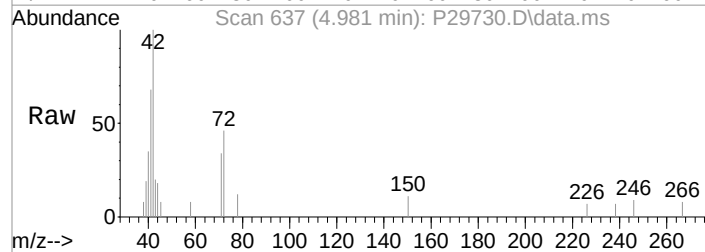
#15
 Acetone
 Concen: 0.83 ppb m
 RT: 2.402 min Scan# 214
 Delta R.T. -0.006 min
 Lab File: P29730.D
 Acq: 11 Sep 2019 3:00 pm

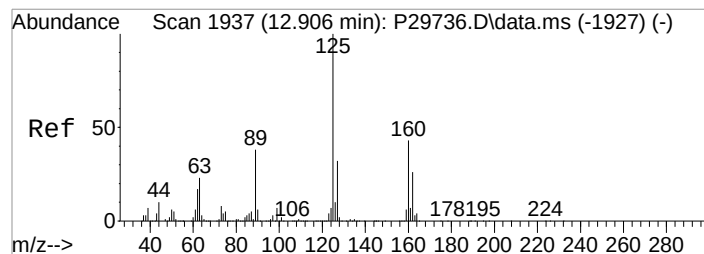
Tgt Ion:	43	Resp:	2259
Ion Ratio		Lower	Upper
43	100		
58	46.1	11.7	51.7
42	13.5	0.0	26.5



#39
 Tetrahydrofuran
 Concen: Below Cal
 RT: 4.981 min Scan# 637
 Delta R.T. 0.007 min
 Lab File: P29730.D
 Acq: 11 Sep 2019 3:00 pm

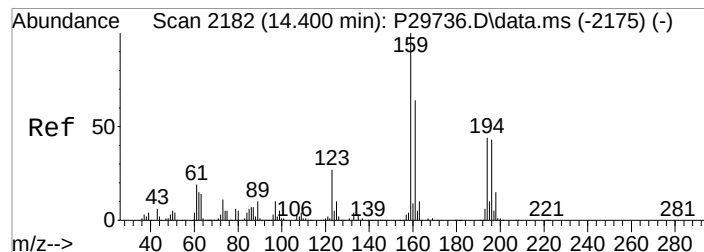
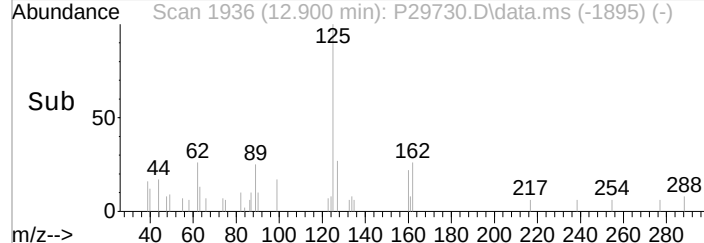
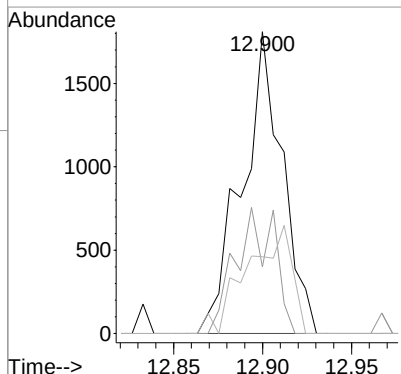
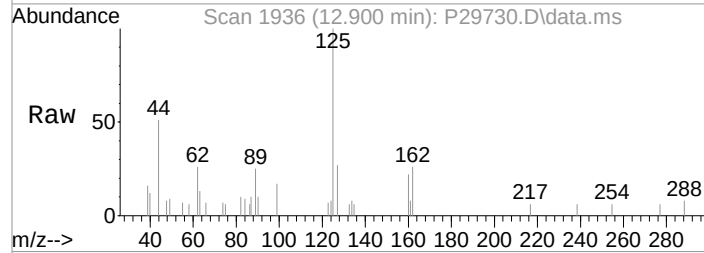
Tgt Ion:	42	Resp:	4458
Ion Ratio		Lower	Upper
42	100		
72	45.9	13.2	53.2





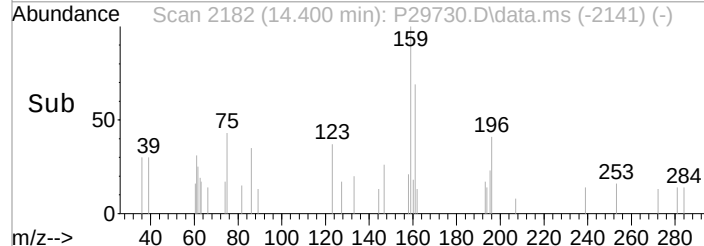
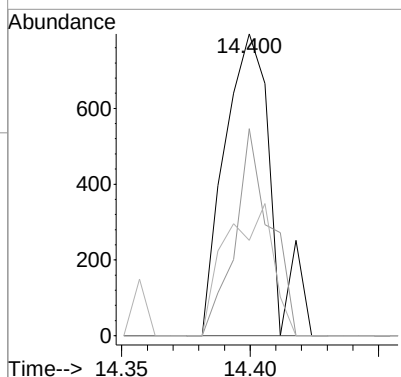
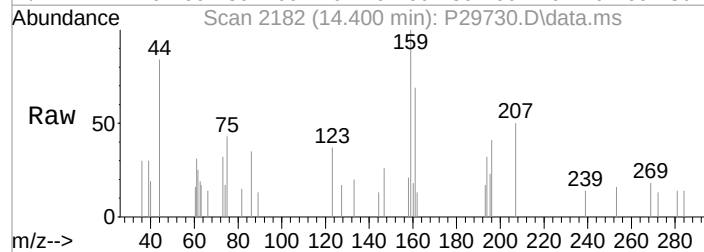
#112
 Trielution Dichlorotoluene
 Concen: 0.37 ppb
 RT: 12.900 min Scan# 1936
 Delta R.T. -0.000 min
 Lab File: P29730.D
 Acq: 11 Sep 2019 3:00 pm

Tgt Ion:	125	Resp:	2846
Ion Ratio		Lower	Upper
125	100		
160	22.1	34.3	51.5#
89	25.5	30.8	46.2#



#119
 2,4,5-Trichlorotoluene
 Concen: 0.21 ppb
 RT: 14.400 min Scan# 2182
 Delta R.T. -0.000 min
 Lab File: P29730.D
 Acq: 11 Sep 2019 3:00 pm

Tgt Ion:	159	Resp:	1006
Ion Ratio		Lower	Upper
159	100		
161	68.6	50.8	76.2
194	31.6	35.3	52.9#



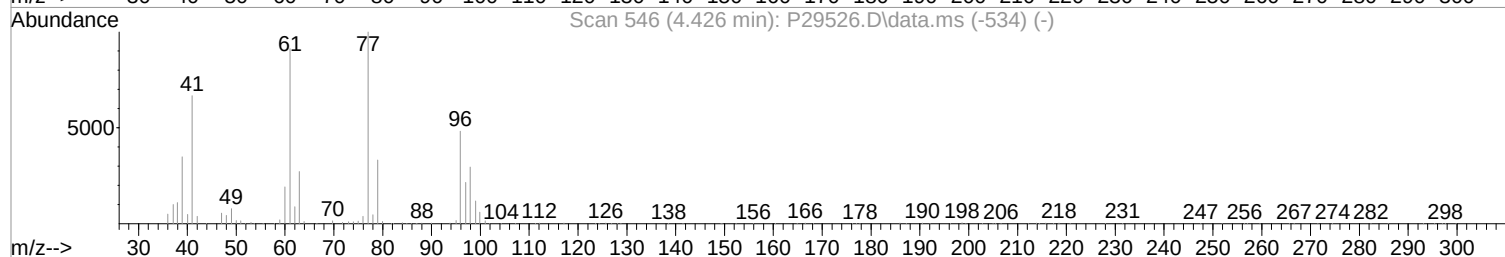
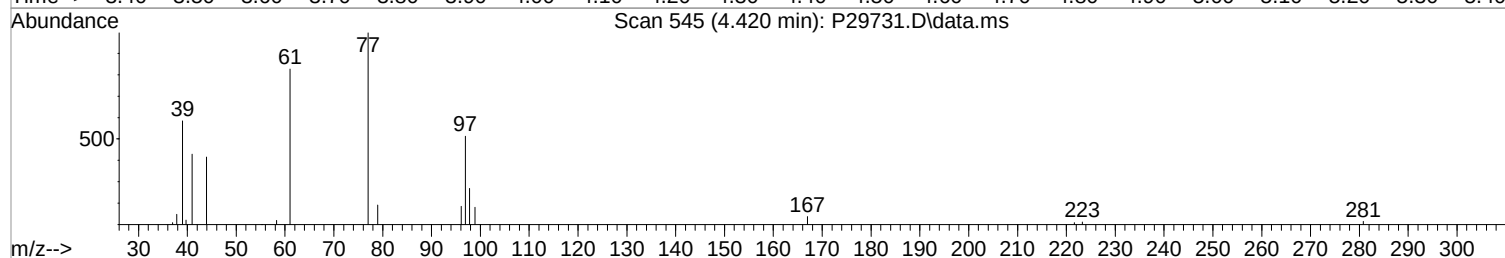
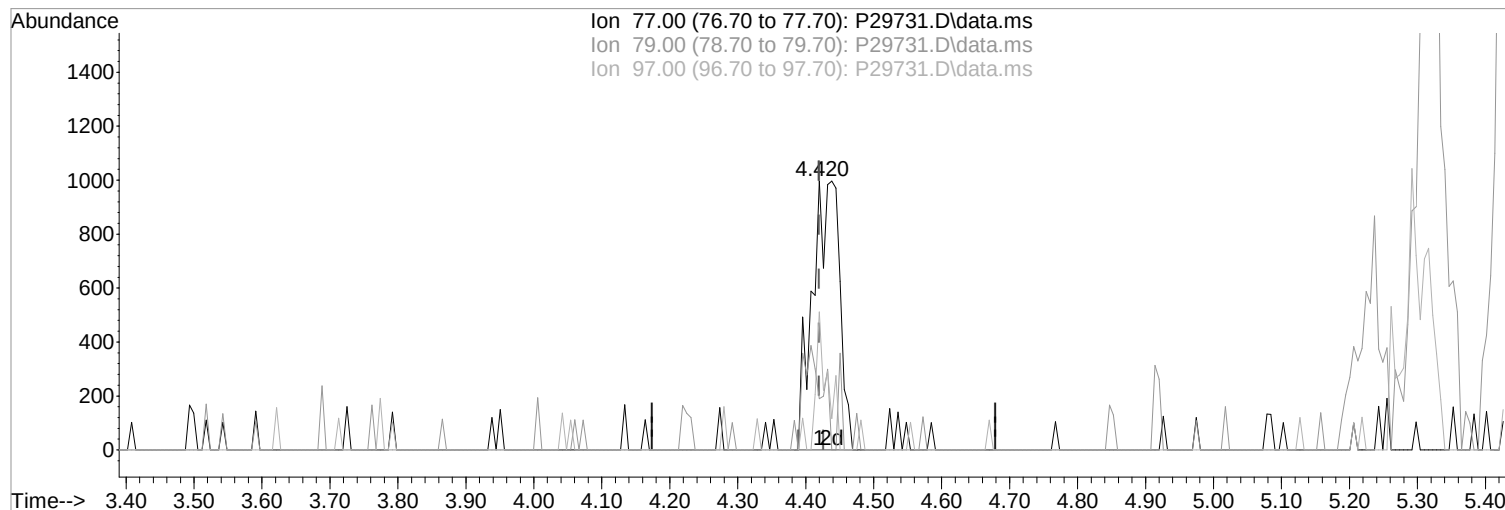
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(33) 2,2-Dichloropropane

4.420min (+0.000) 0.49 ppb m

response 2749

Ion	Exp%	Act%
77.00	100	100
79.00	34.40	19.06
97.00	19.80	51.35#
0.00	0.00	0.00

Manual Integration:

After

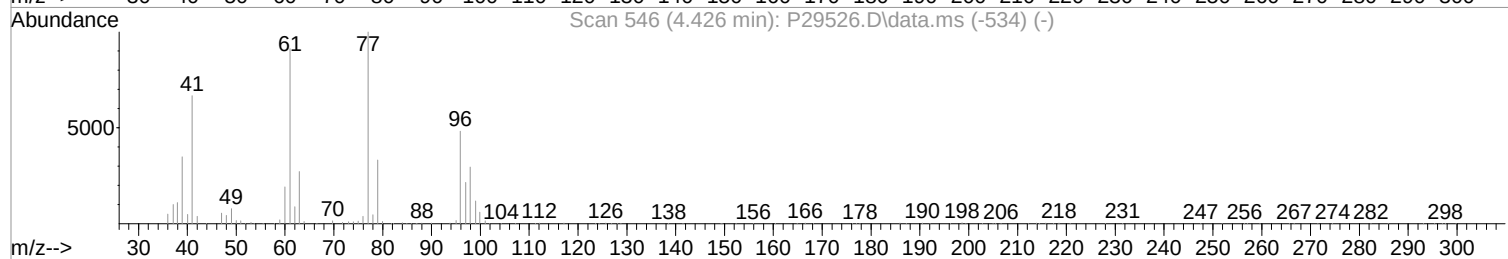
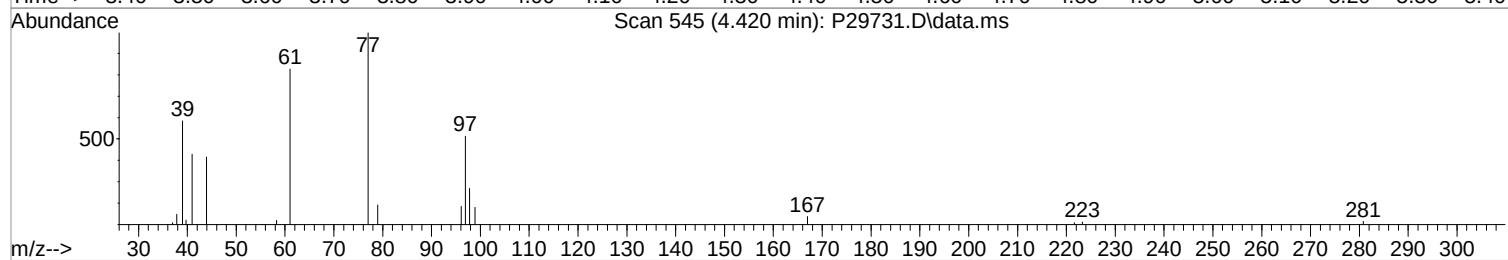
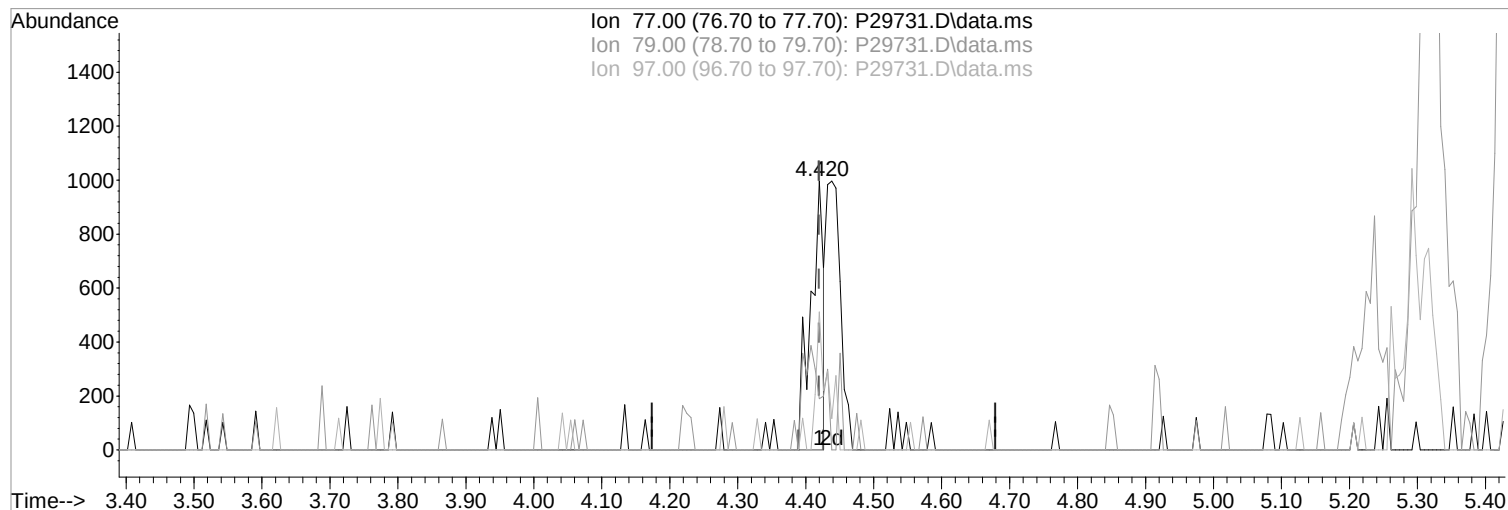
Split Peak

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(33) 2,2-Dichloropropane

Manual Integration:

4.420min (+0.000) 0.23 ppb

Before

response 1298

Ion	Exp%	Act%

09/12/19

77.00	100	100

79.00	34.40	19.06

97.00	19.80	51.35#

0.00	0.00	0.00

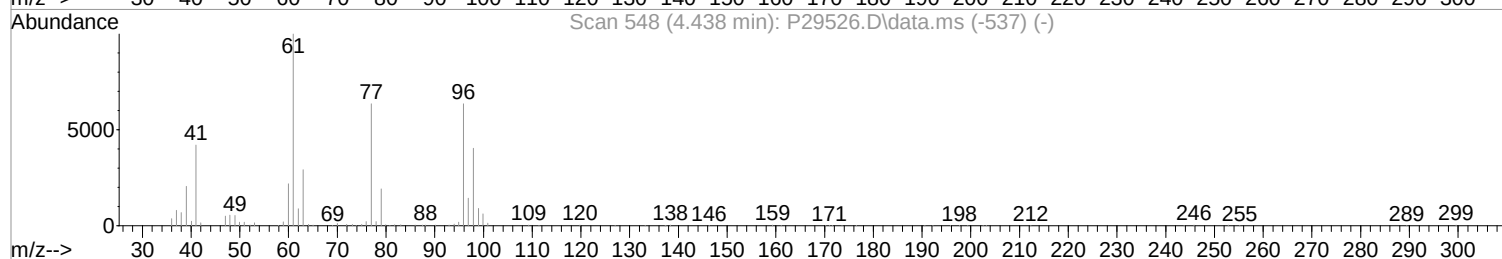
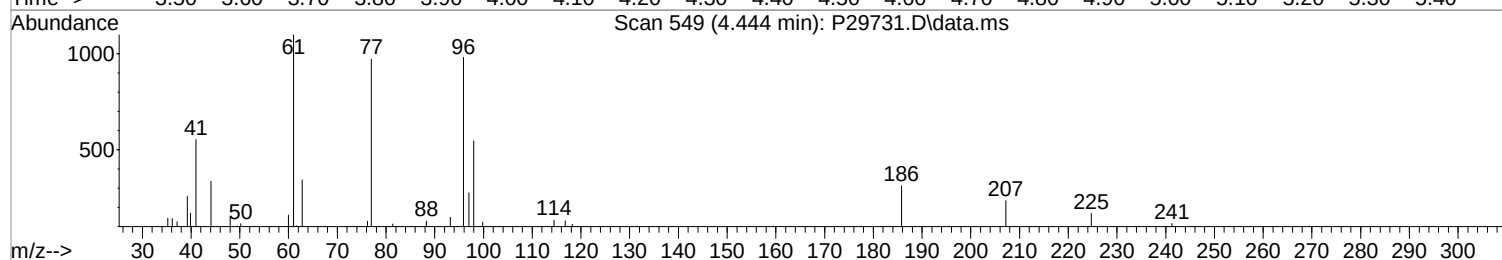
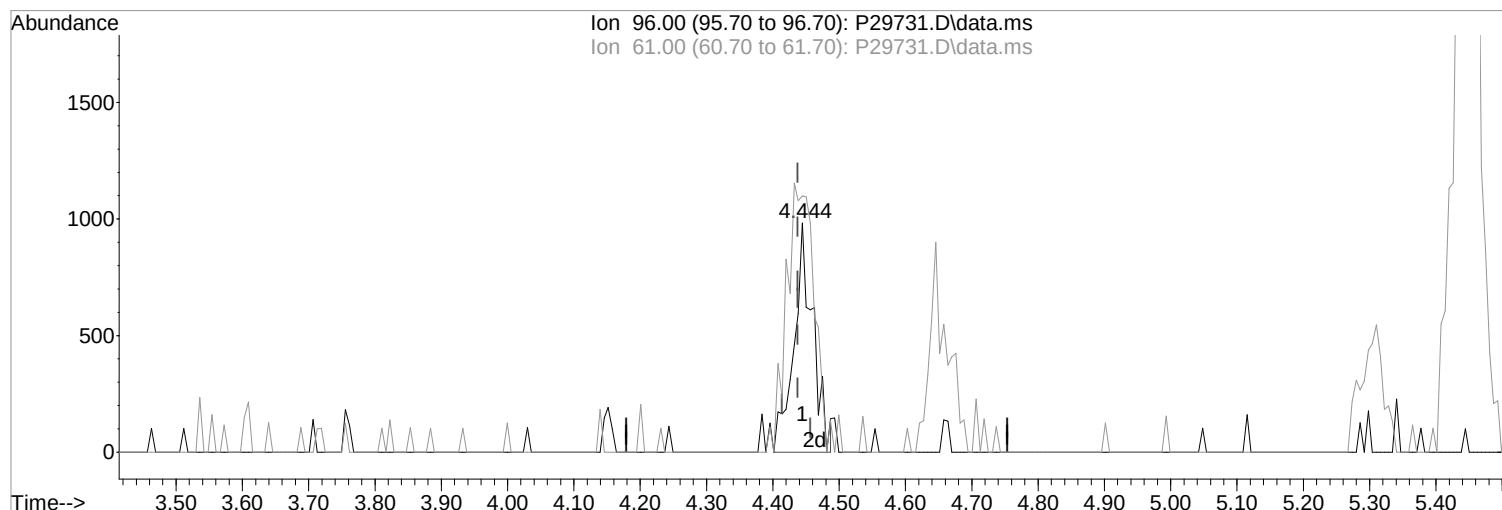
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

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

4.444min (+0.006) 0.47 ppb m

response 1957

Ion	Exp%	Act%

96.00	100	100

61.00	157.30	111.91#

0.00	0.00	0.00

0.00	0.00	0.00

Manual Integration:

After

Split Peak

09/12/19

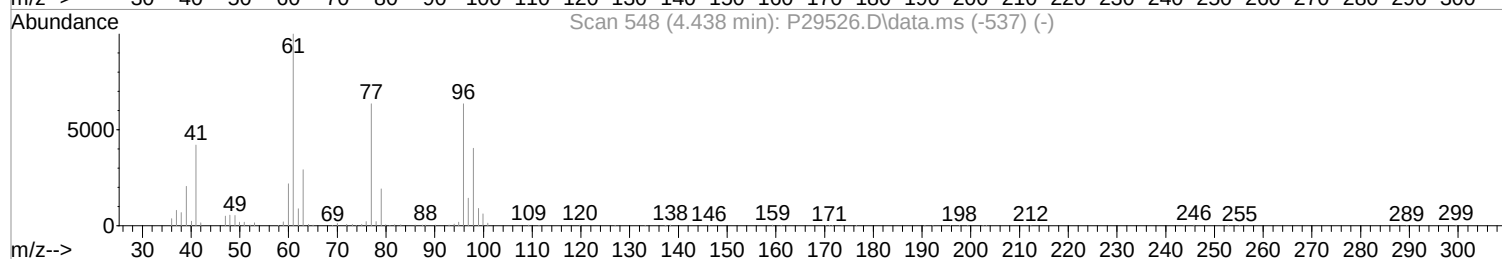
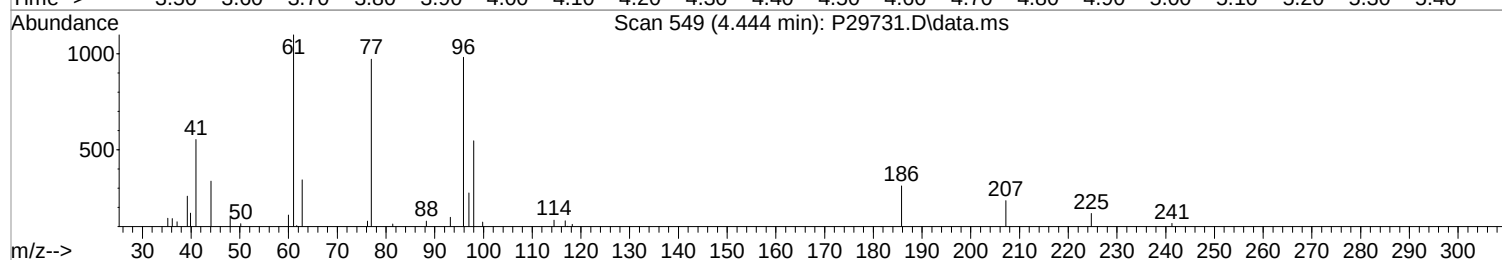
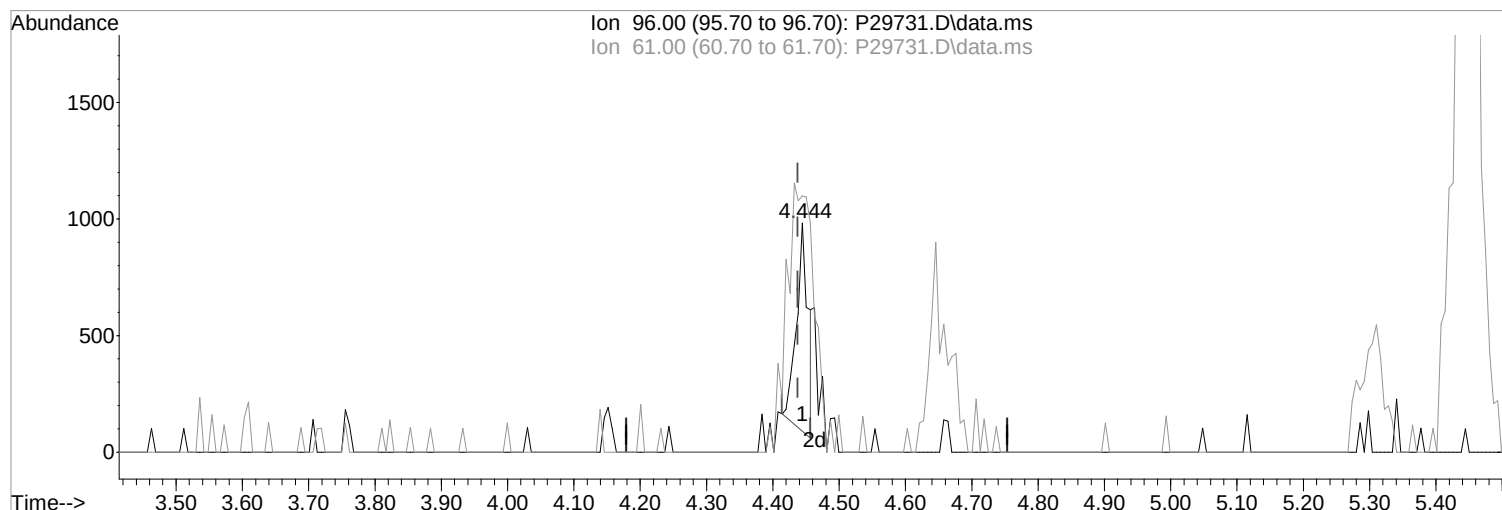
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

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

Manual Integration:

4.444min (+0.006) 0.26 ppb

Before

response 1089

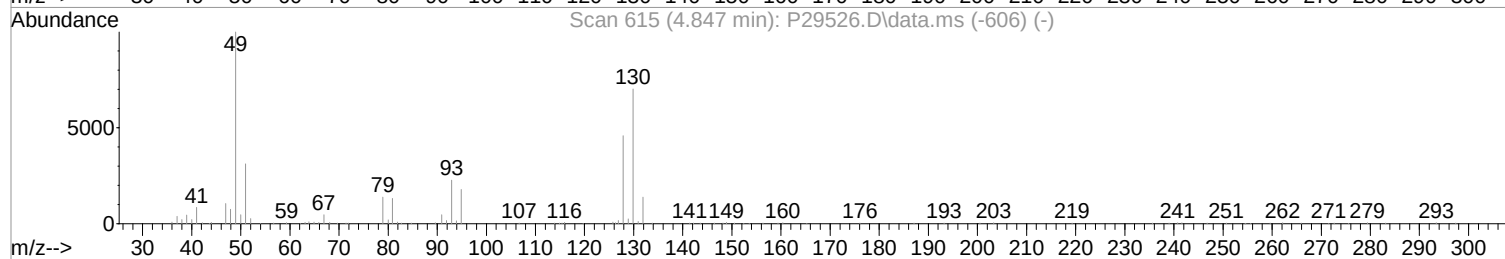
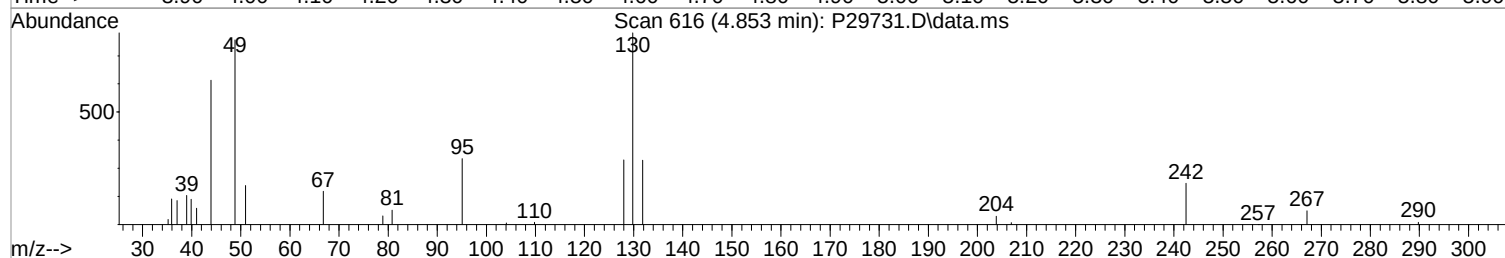
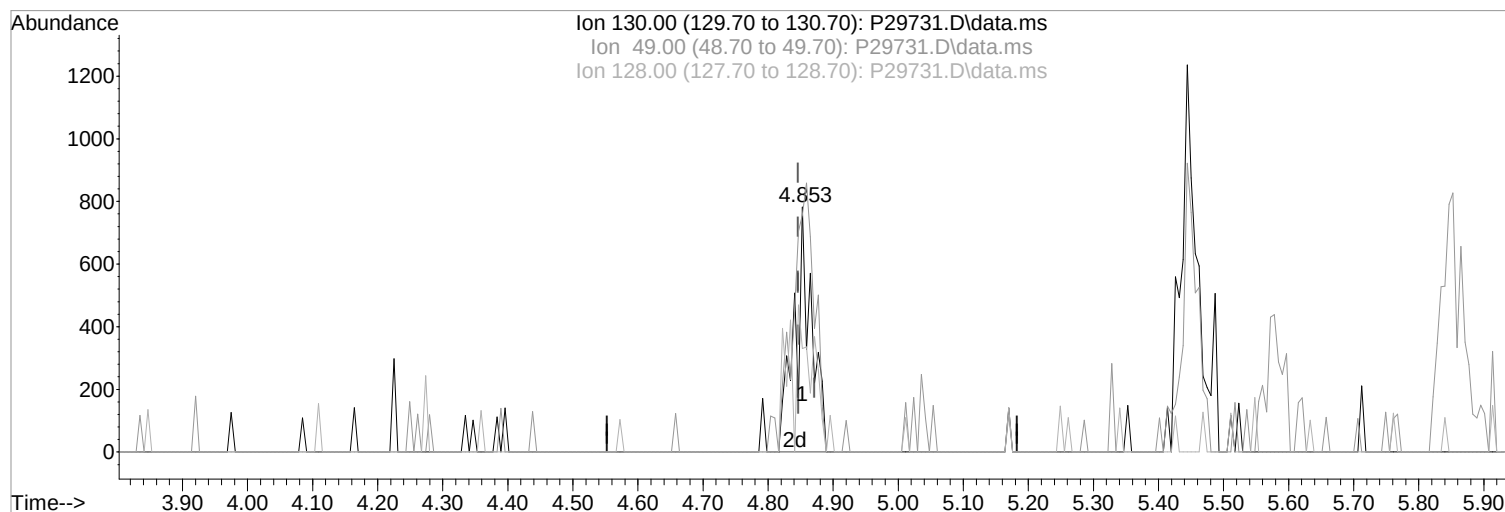
Ion	Exp%	Act%
96.00	100	100
61.00	157.30	122.61#
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(37) Bromochloromethane

Manual Integration:

4.853min (+0.006) 0.56 ppb m

After

response 1398

Split Peak

Ion	Exp%	Act%

09/12/19

130.00	100	100

49.00	158.10	96.68#

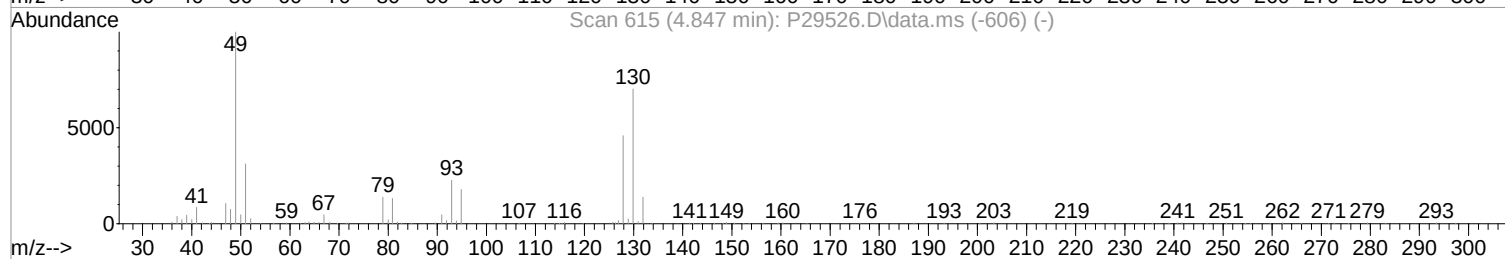
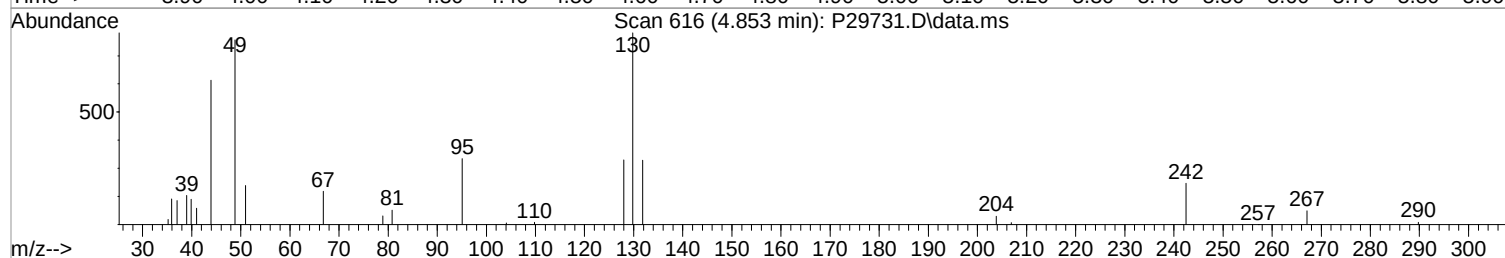
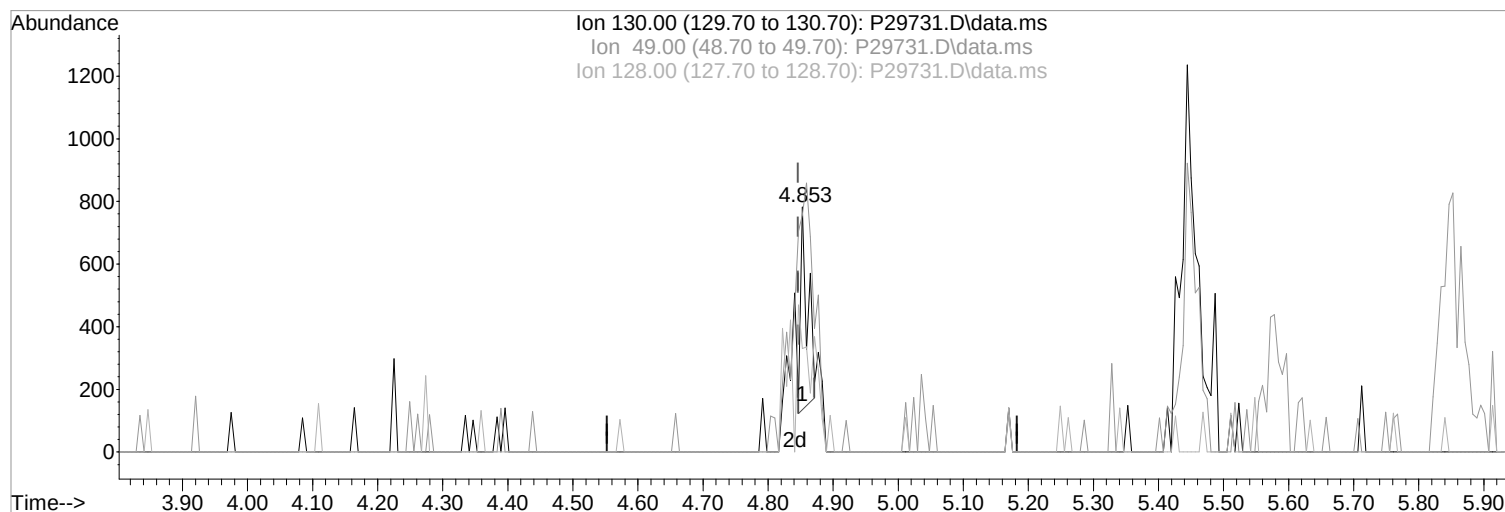
128.00	71.40	42.20#

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(37) Bromochloromethane

Manual Integration:

4.853min (+0.006) 0.19 ppb

Before

response 478

Ion	Exp%	Act%

09/12/19

130.00	100	100

49.00	158.10	96.68#

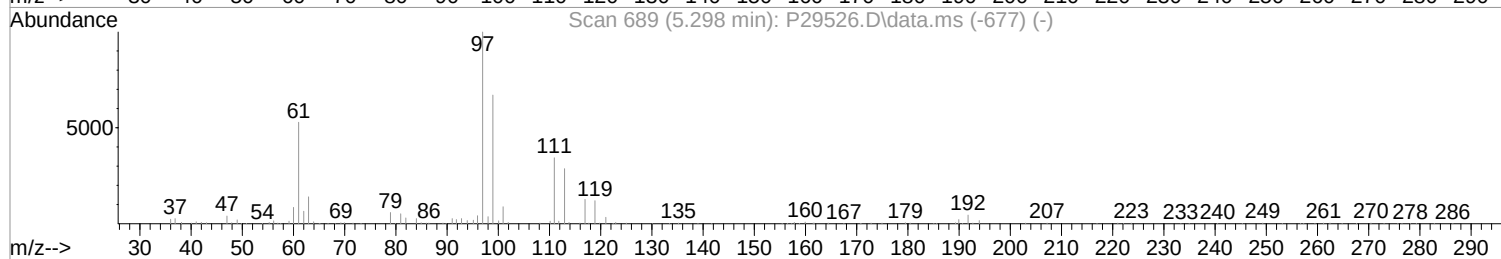
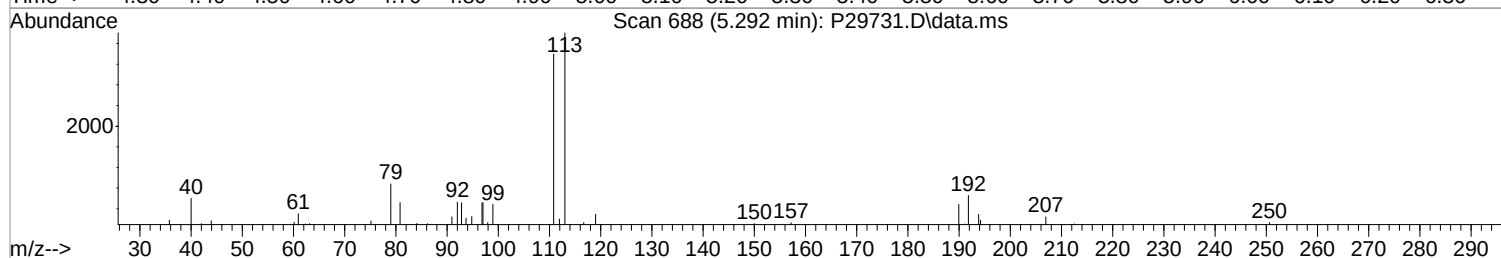
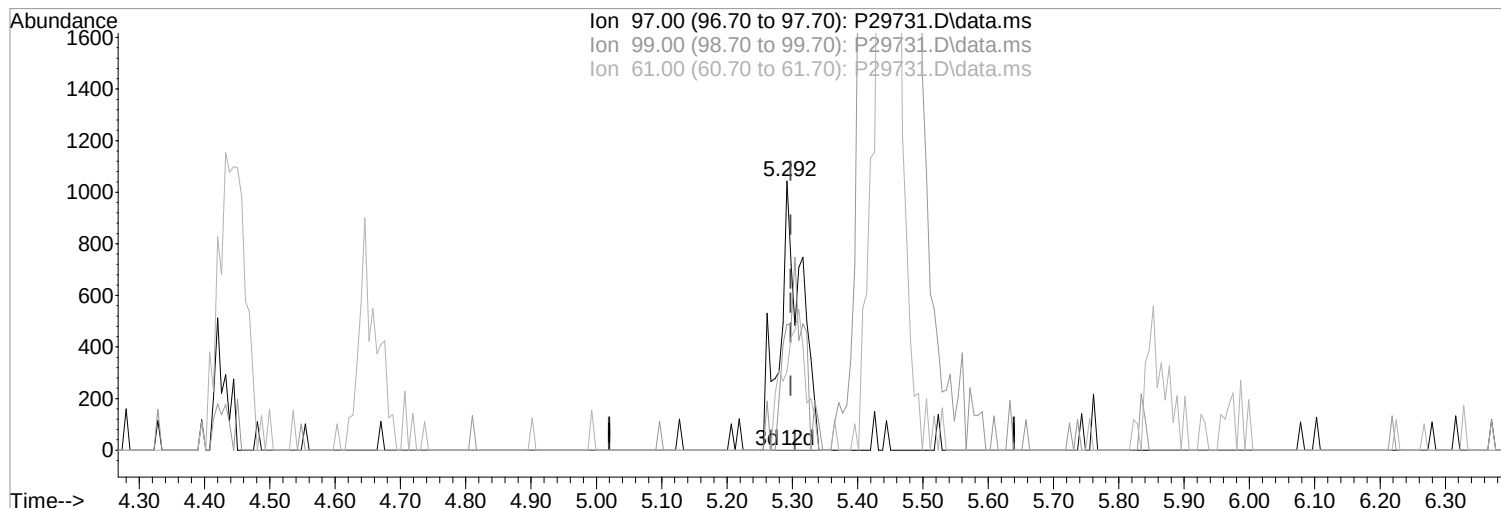
128.00	71.40	42.20#

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

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

5.292min (-0.006) 0.45 ppb m

response 2421

Ion	Exp%	Act%
97.00	100	100
99.00	62.90	92.60#
61.00	44.60	57.87
0.00	0.00	0.00

Manual Integration:

After

Split Peak

09/12/19

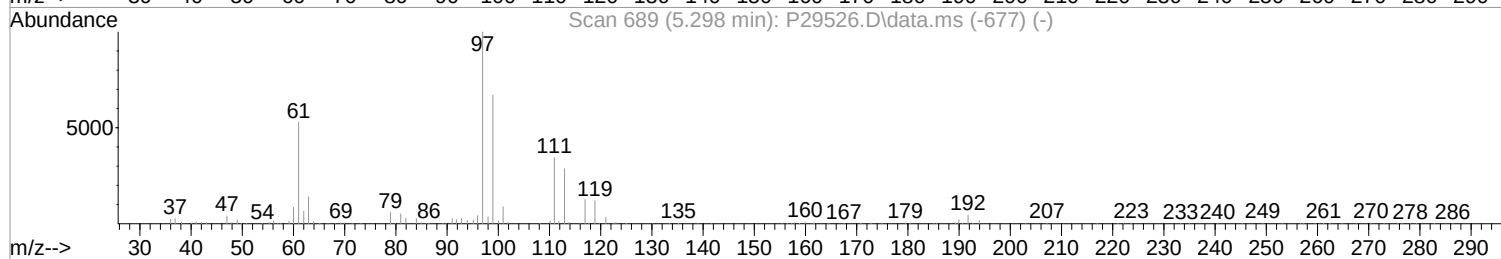
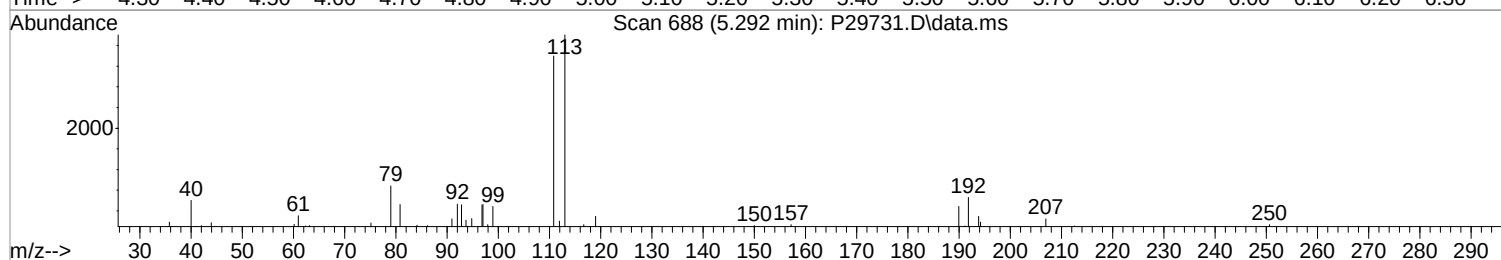
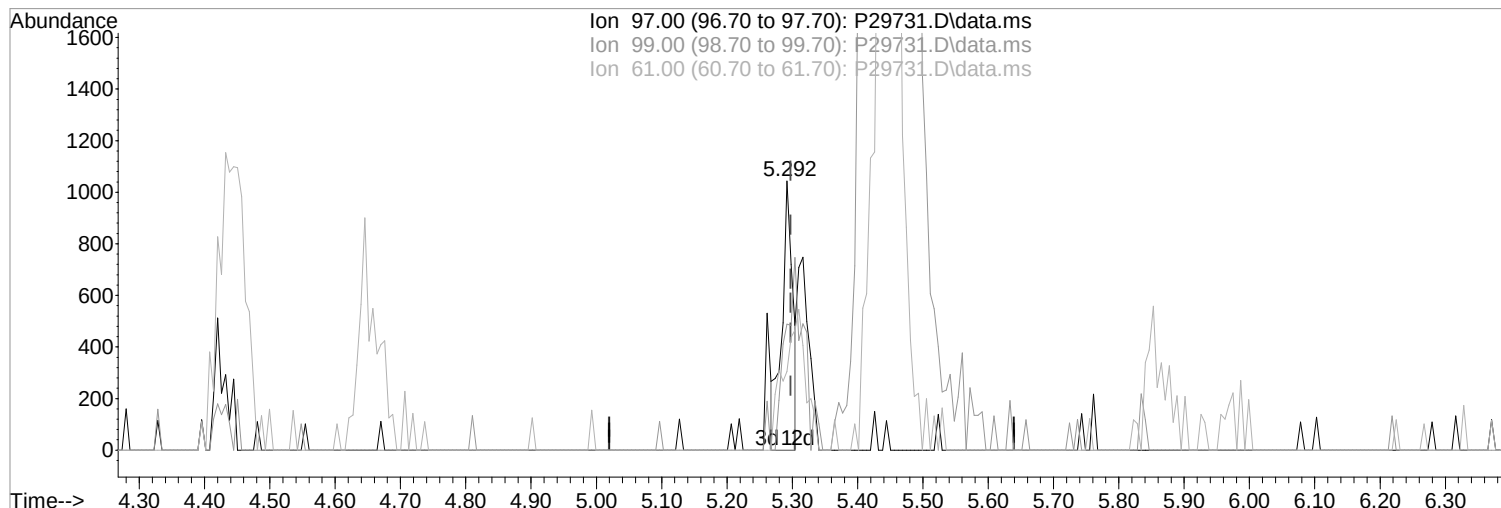
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

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

Manual Integration:

5.292min (-0.006) 0.23 ppb

Before

response 1215

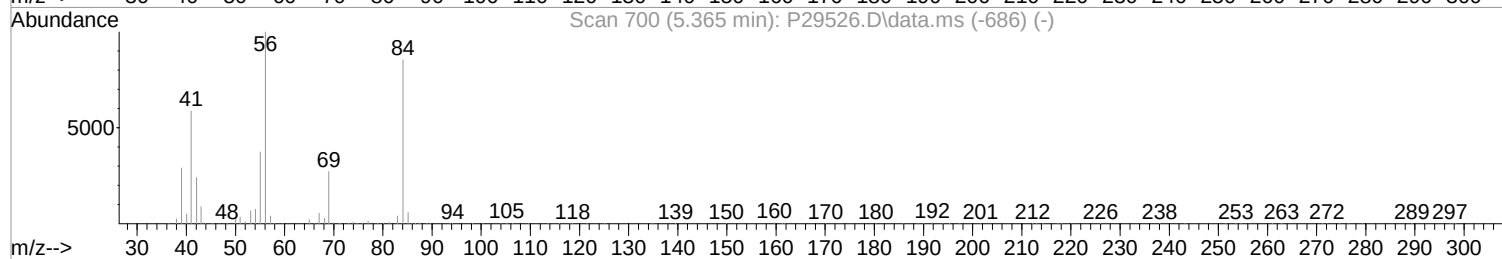
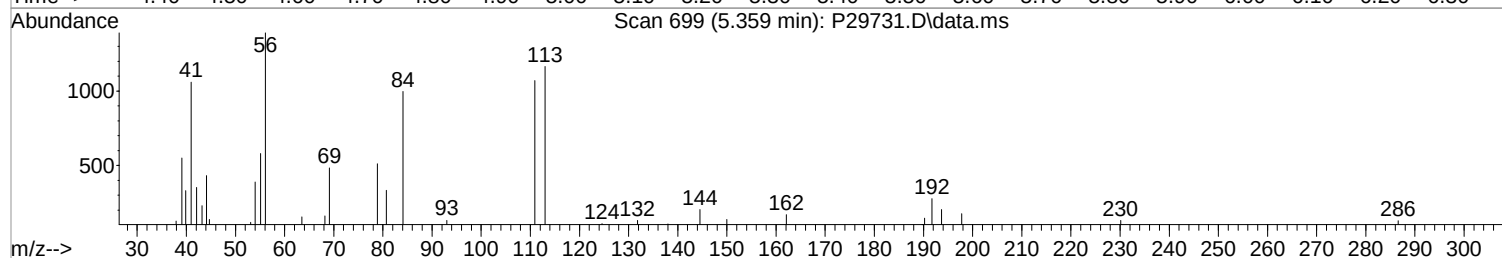
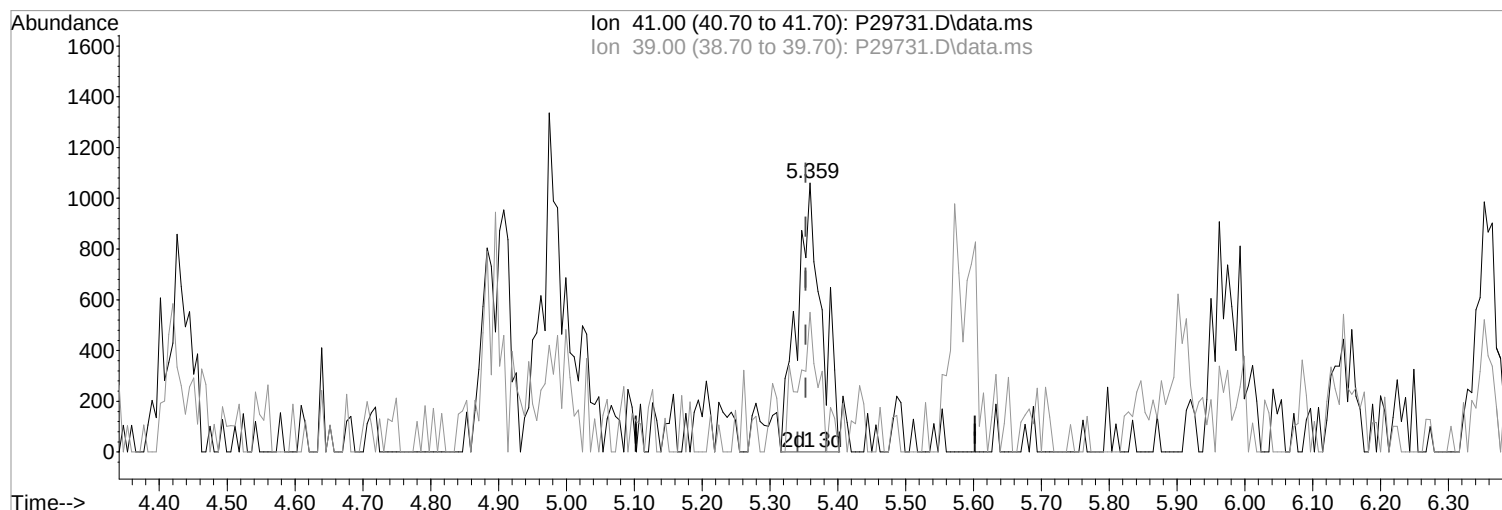
Ion	Exp%	Act%
97.00	100	100
99.00	62.90	46.79
61.00	44.60	29.24
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(44) Cyclohexane (P)

5.359min (+0.006) 0.60 ppb m

response 2693

Ion	Exp%	Act%
41.00	100	100
39.00	44.40	51.89
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

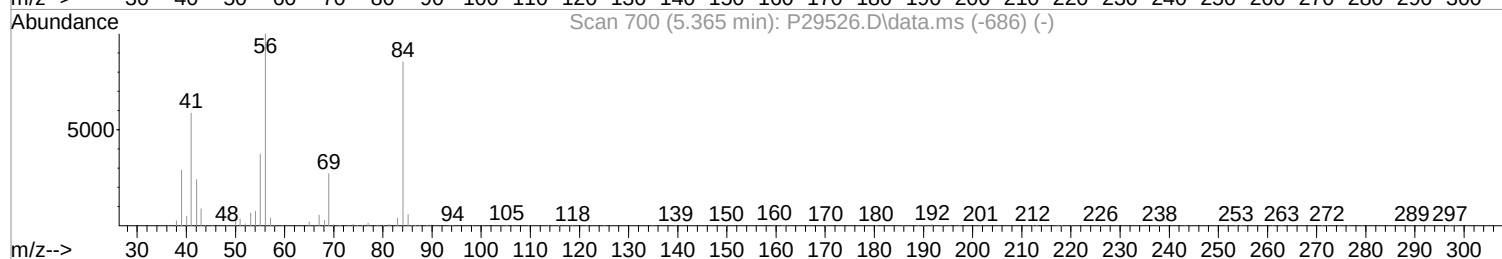
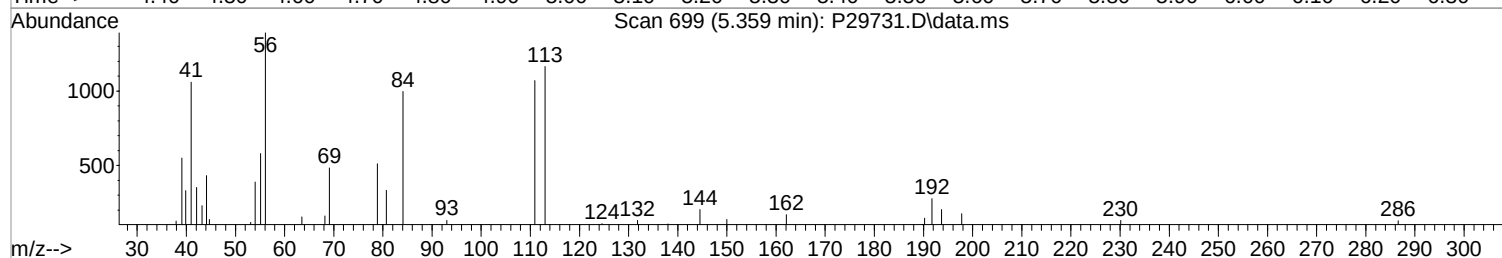
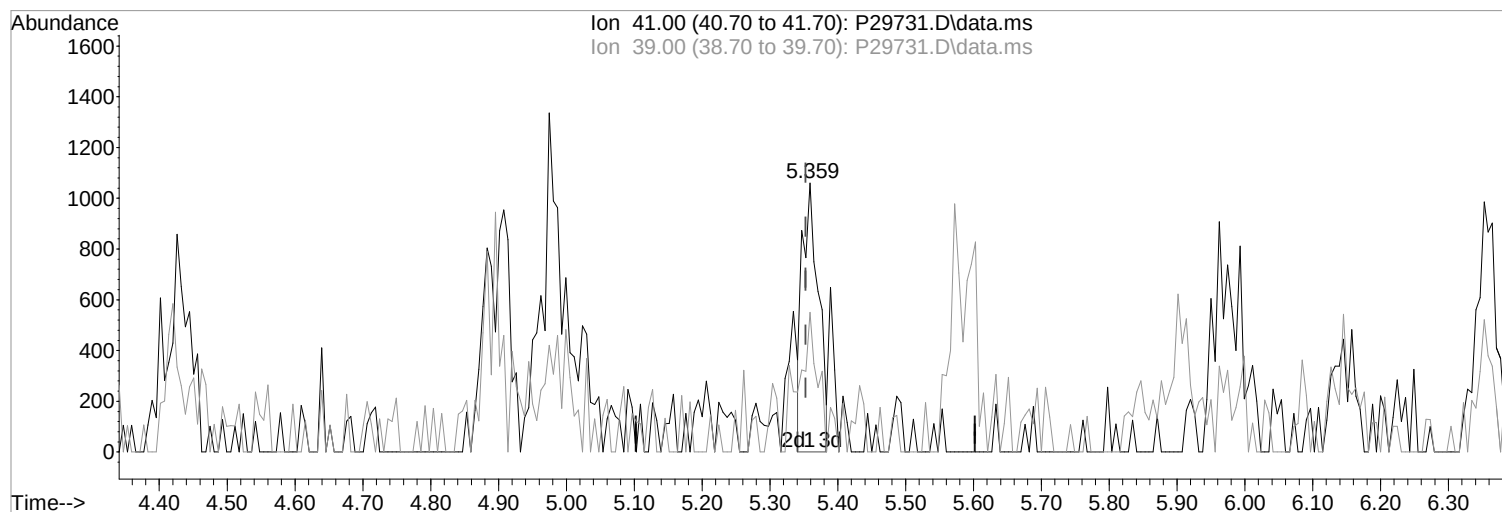
Split Peak

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(44) Cyclohexane (P)

Manual Integration:

5.359min (+0.006) 0.39 ppb

Before

response 1765

Ion	Exp%	Act%
41.00	100	100
39.00	44.40	51.89
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

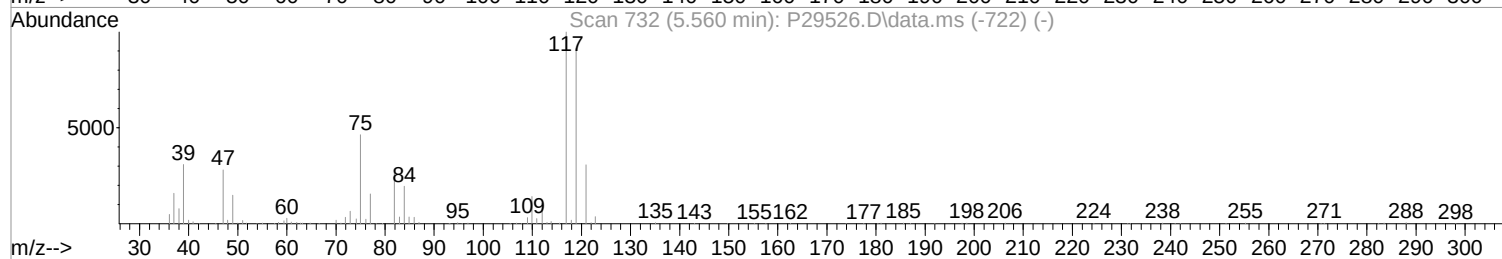
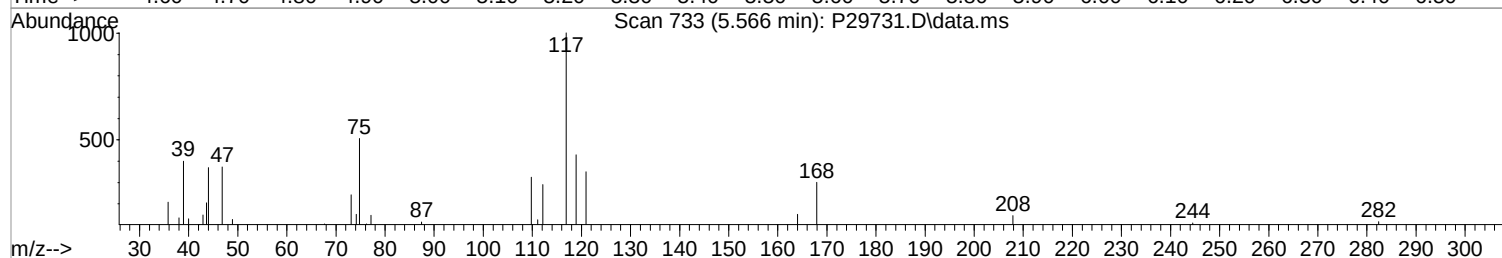
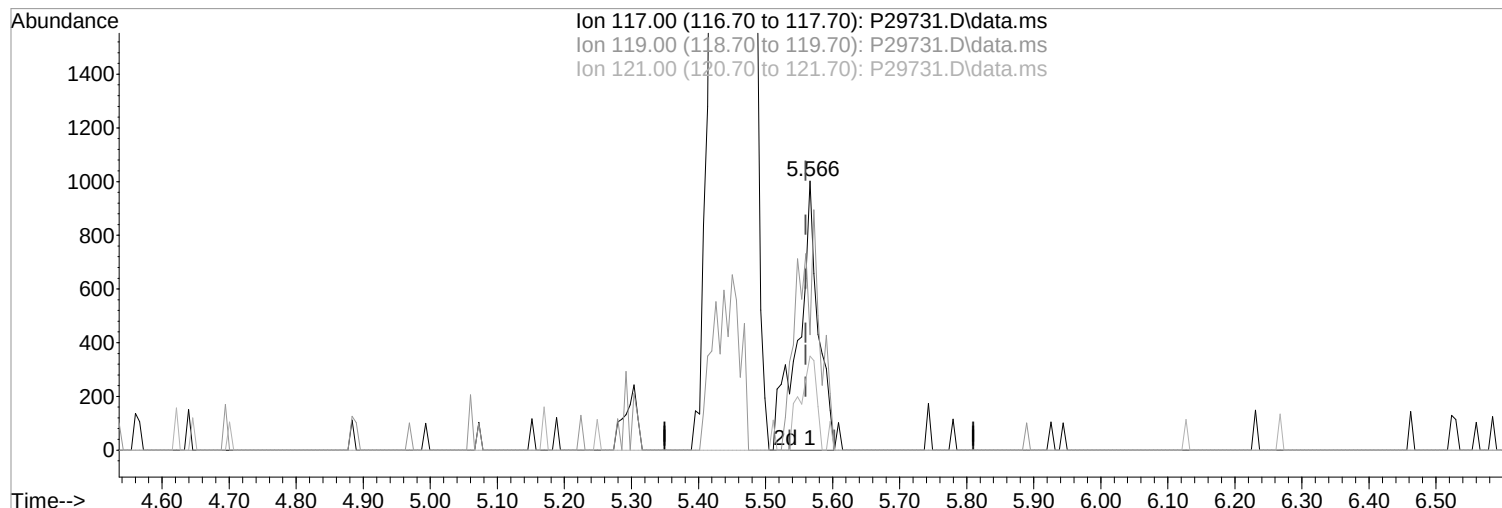
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(46) Carbontetrachloride (P)

5.566min (+0.006) 0.54 ppb m

response 2085

Ion Exp% Act%

117.00 100 100

119.00 99.20 42.91#

121.00 31.70 34.93

0.00 0.00 0.00

Manual Integration:

After

Split Peak

09/12/19

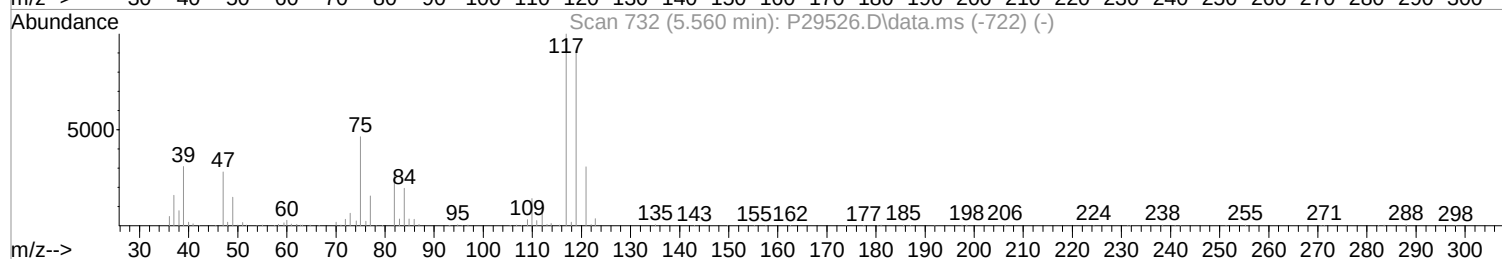
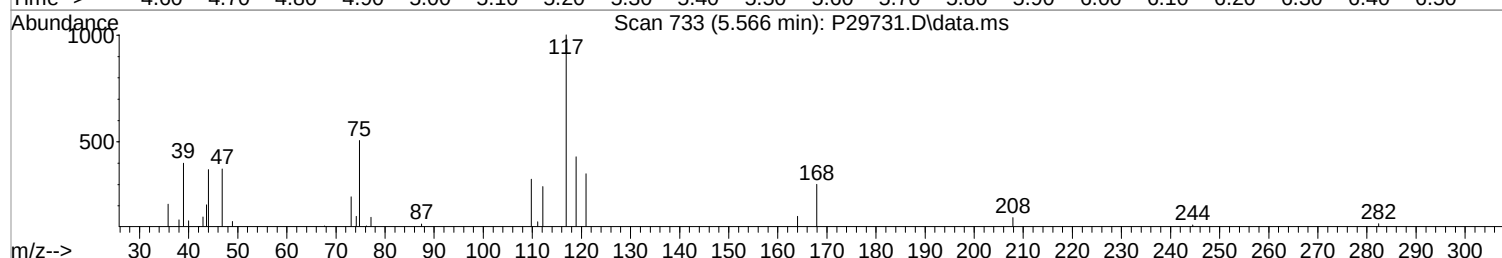
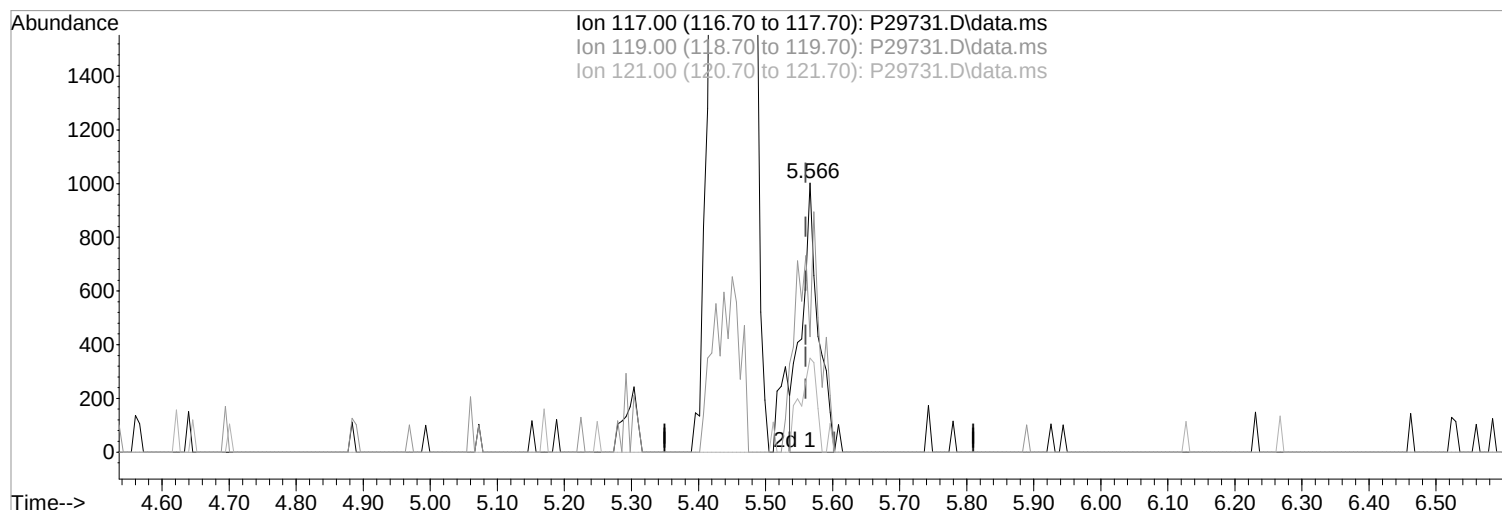
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(46) Carbontetrachloride (P)

Manual Integration:

5.566min (+0.006) 0.44 ppb

Before

response 1720

Ion Exp% Act%

09/12/19

117.00 100 100

119.00 99.20 42.91#

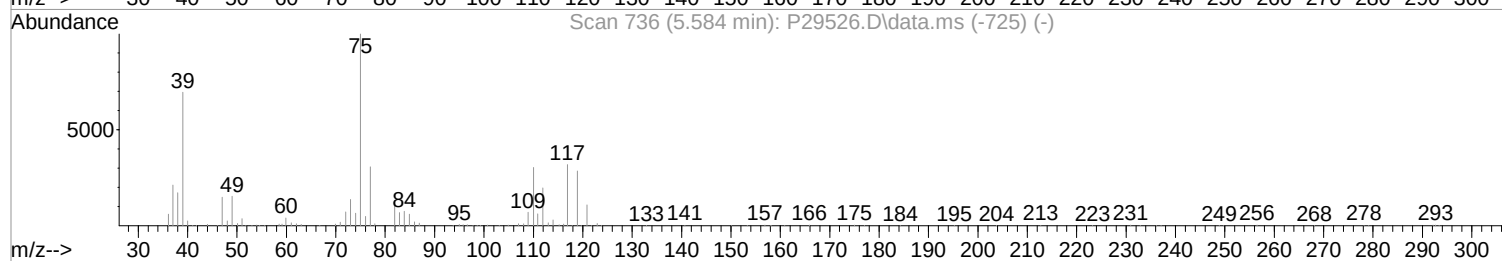
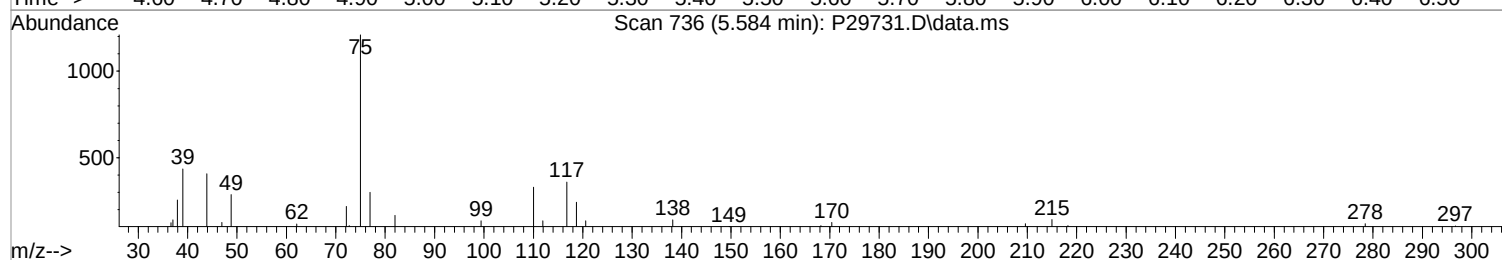
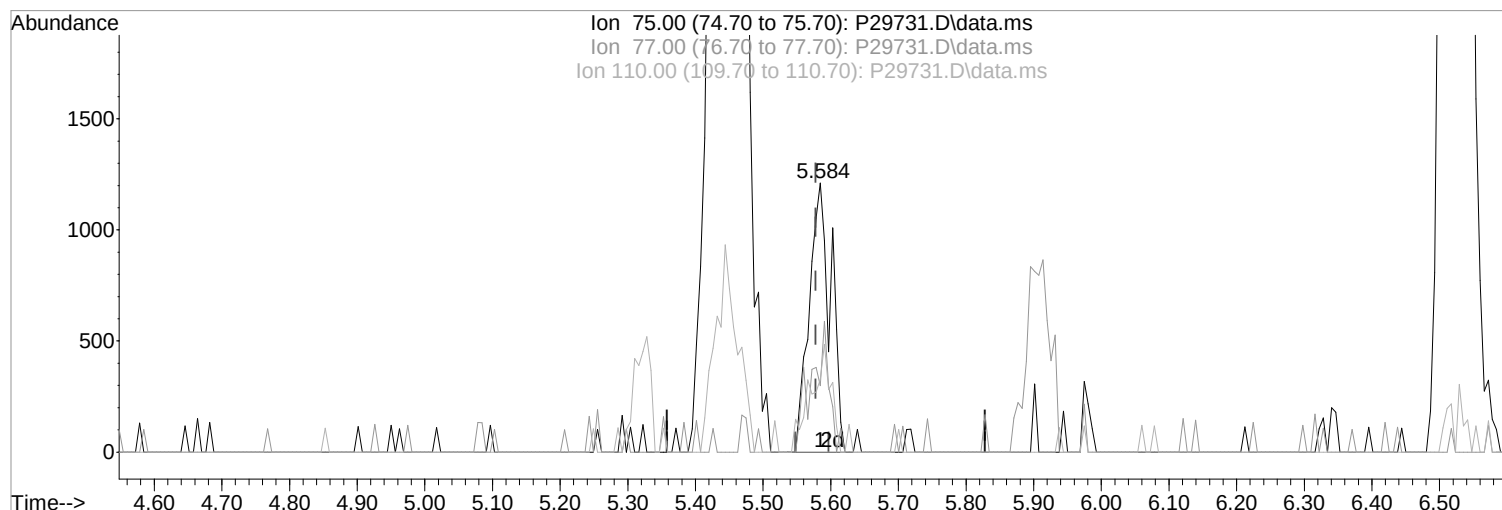
121.00 31.70 34.93

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(47) 1,1-Dichloropropene

5.584min (+0.006) 0.50 ppb m

response 2695

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	24.69
110.00	30.50	27.09
0.00	0.00	0.00

Manual Integration:

After

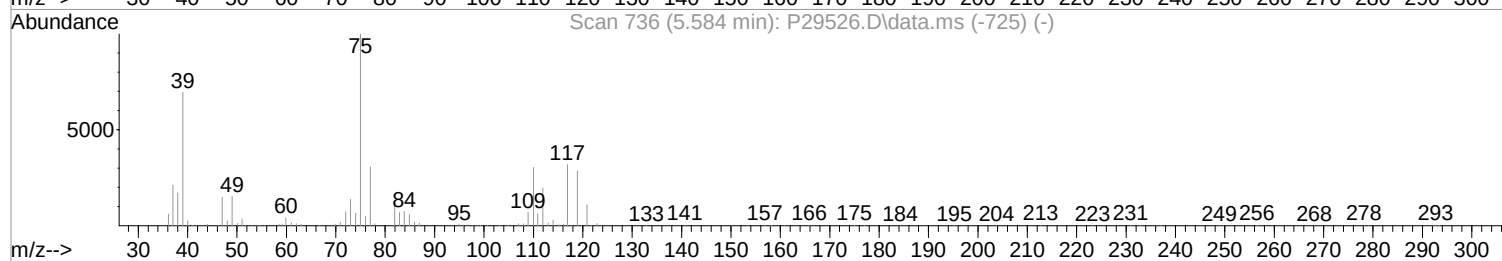
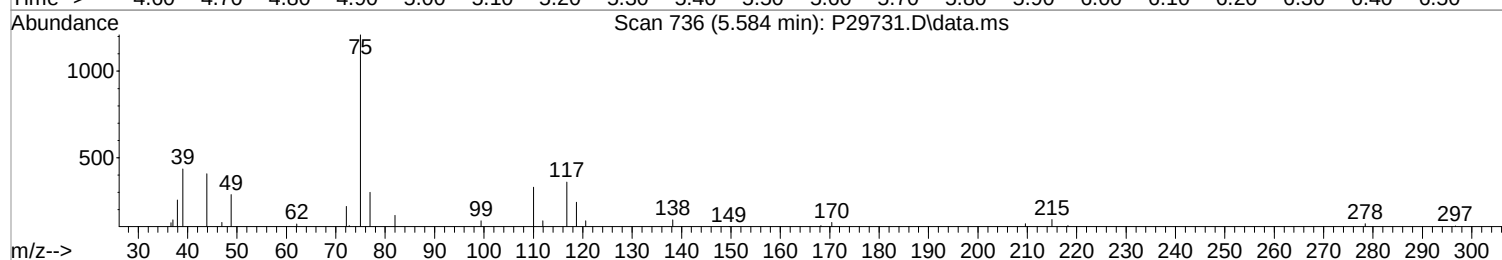
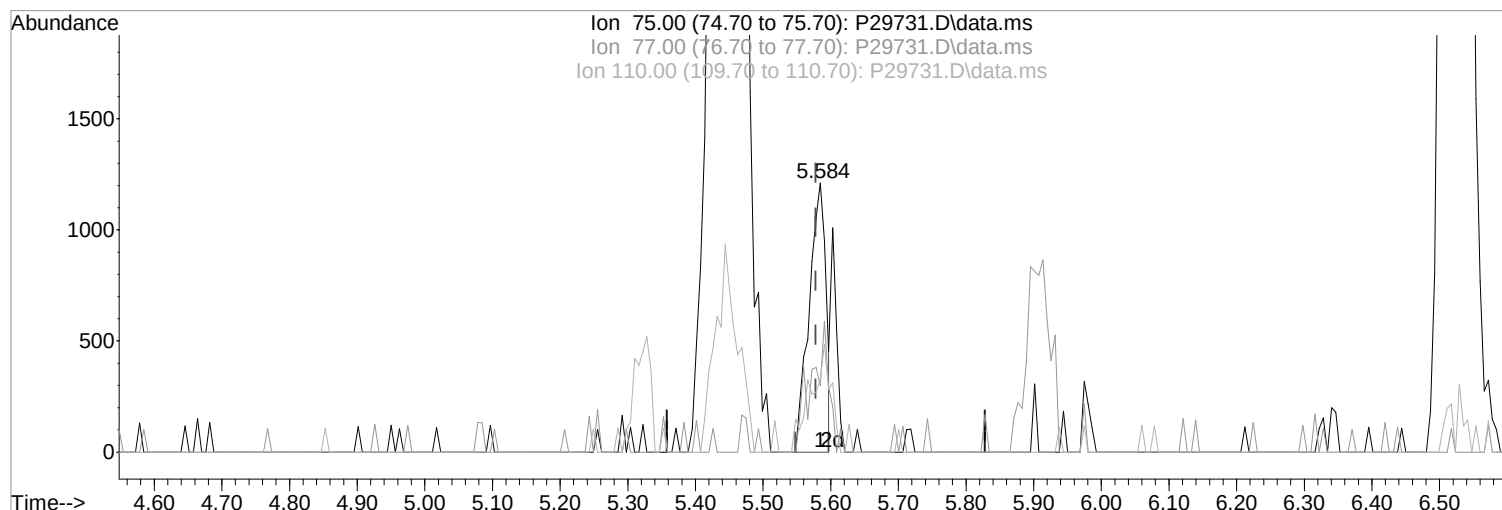
Split Peak

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(47) 1,1-Dichloropropene
5.584min (+0.006) 0.38 ppb
response 2075

Manual Integration:

Before

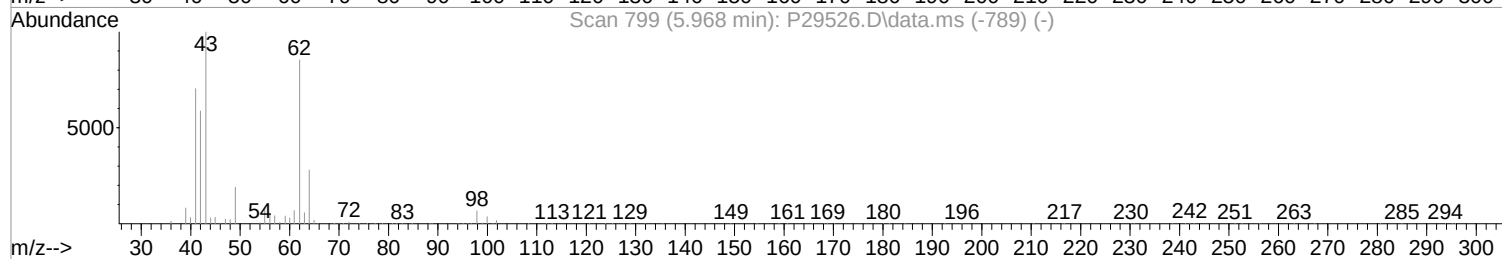
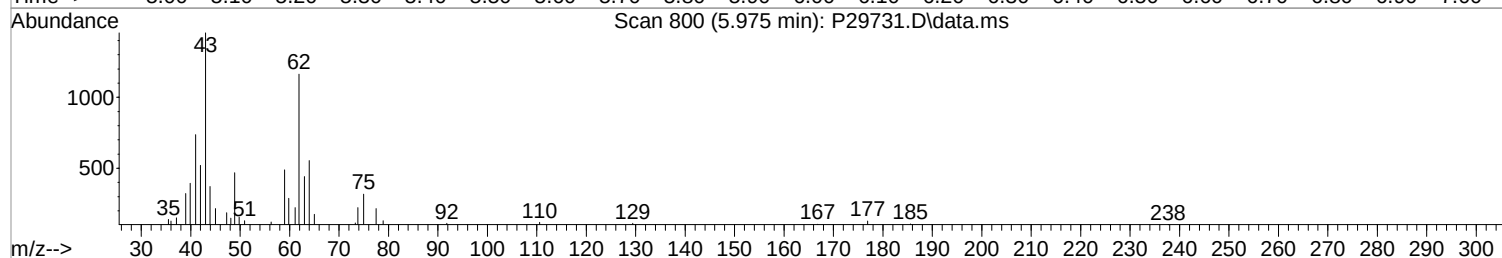
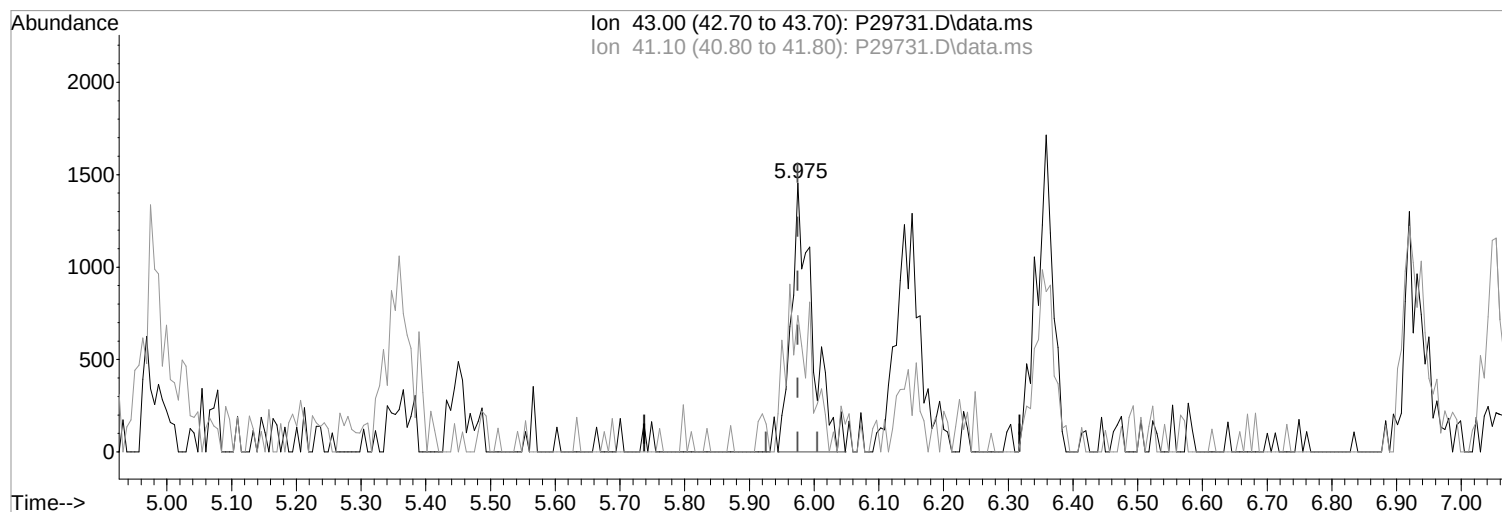
09/12/19

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	24.69
110.00	30.50	27.09
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(51) Iso-Butyl Alcohol

5.975min (+0.000) 6.80 ppb m

response 3274

Ion	Exp%	Act%
43.00	100	100
41.10	67.10	50.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

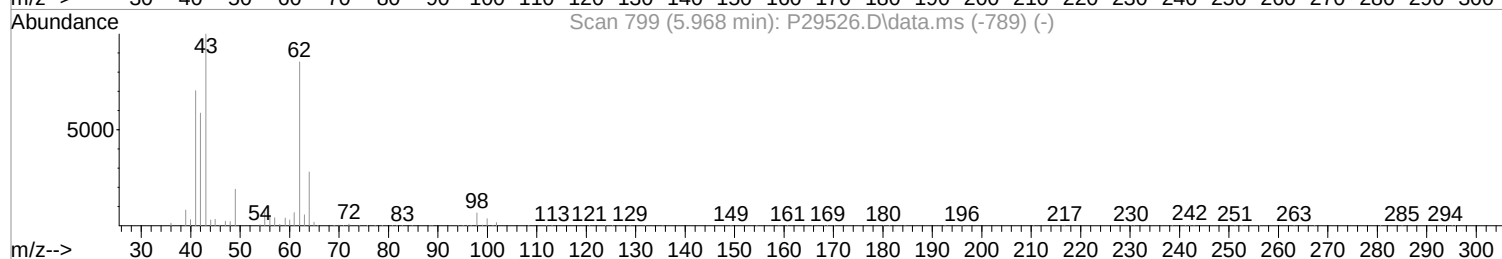
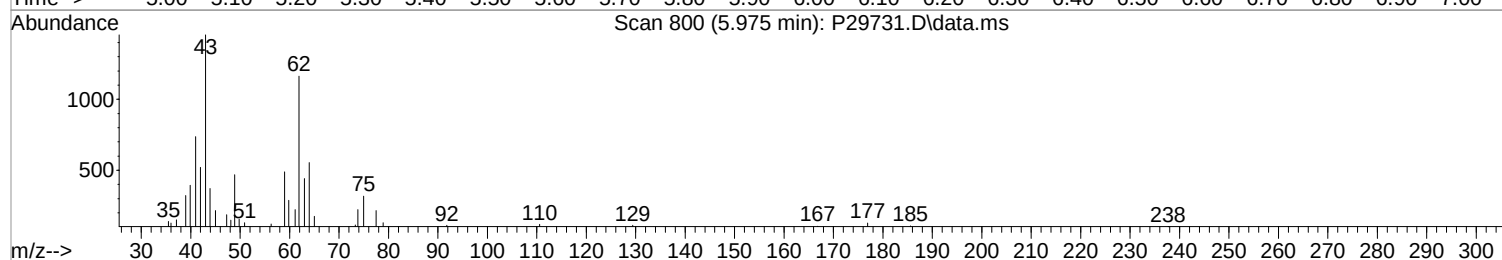
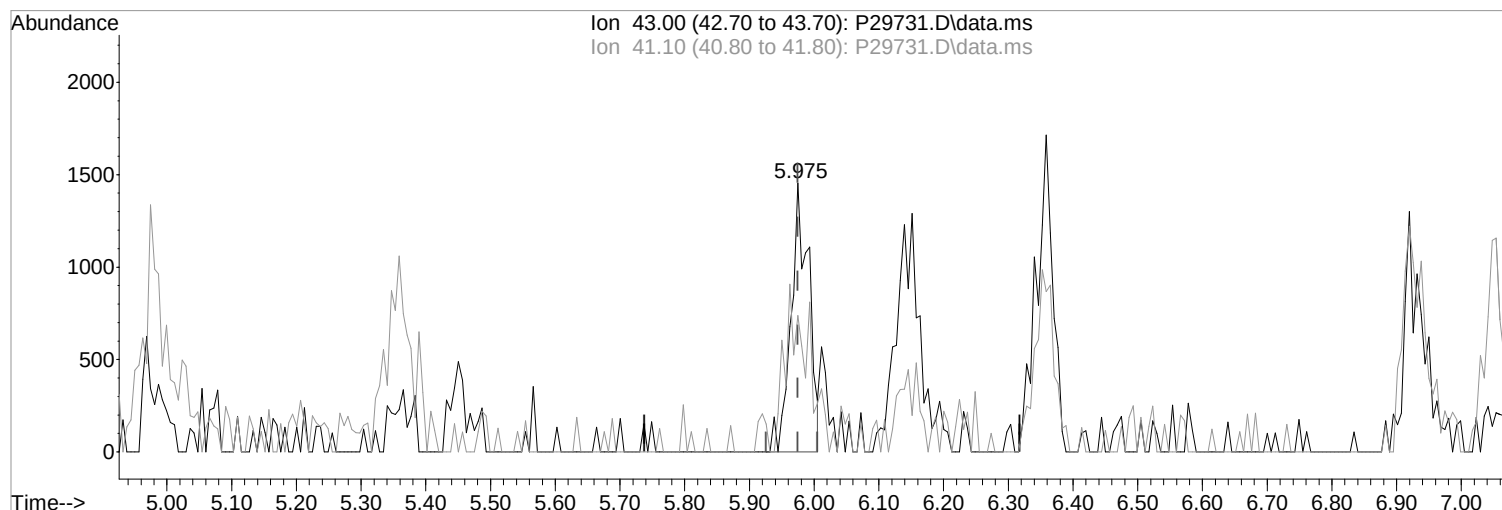
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(51) Iso-Butyl Alcohol

Manual Integration:

5.975min (+0.000) 5.77 ppb

Before

response 2778

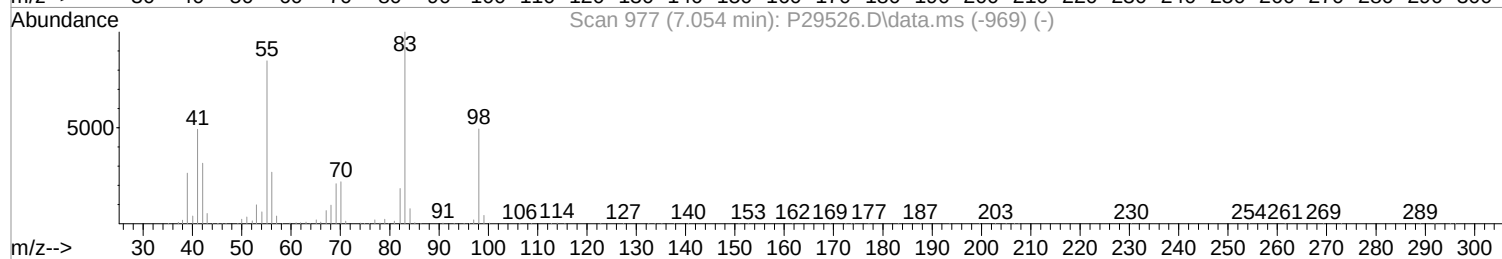
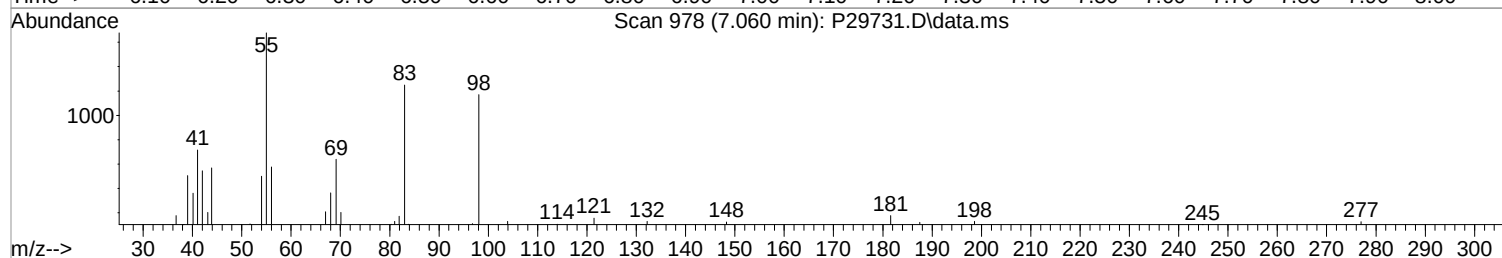
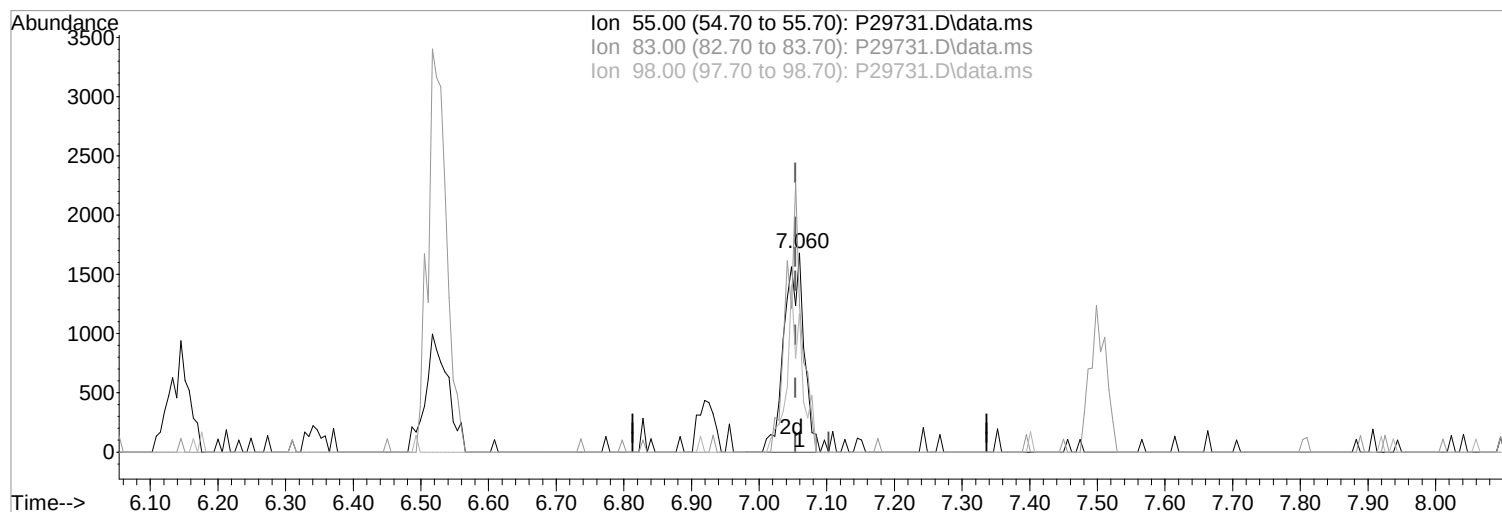
Ion	Exp%	Act%
43.00	100	100
41.10	67.10	50.65
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(55) Methylcyclohexane (P)

Manual Integration:

7.060min (+0.006) 0.56 ppb m

After

response 3414

Split Peak

Ion	Exp%	Act%
55.00	100	100
83.00	121.60	74.49#
98.00	57.00	69.73
0.00	0.00	0.00

09/12/19

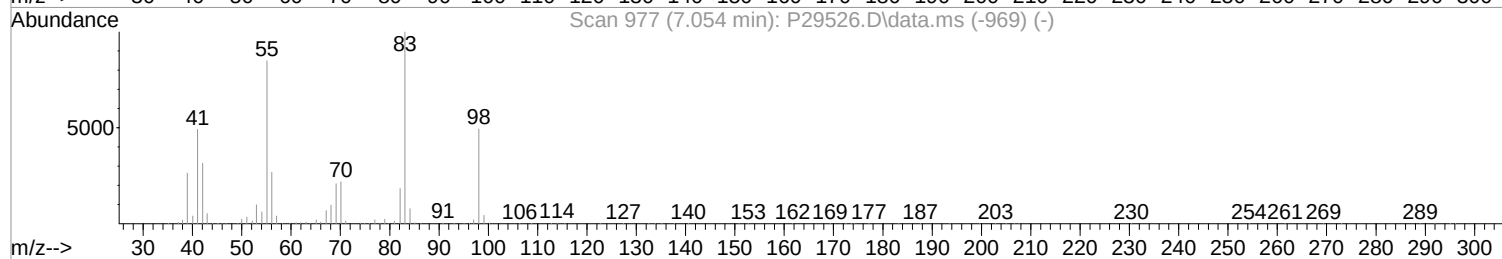
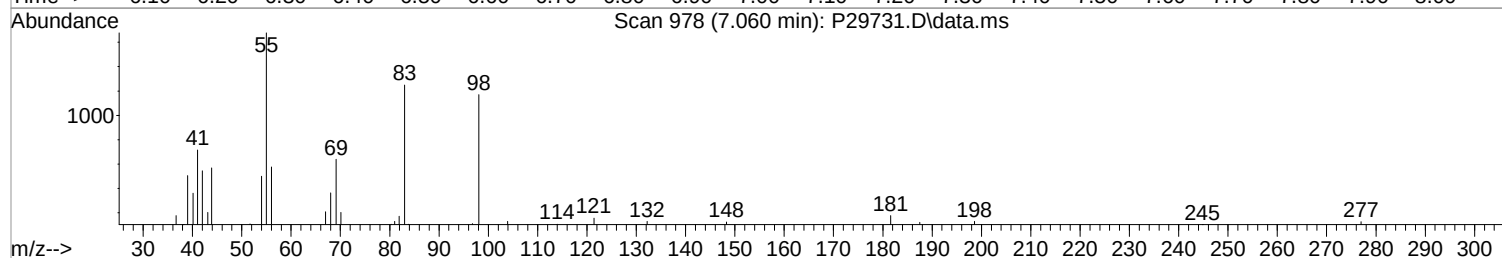
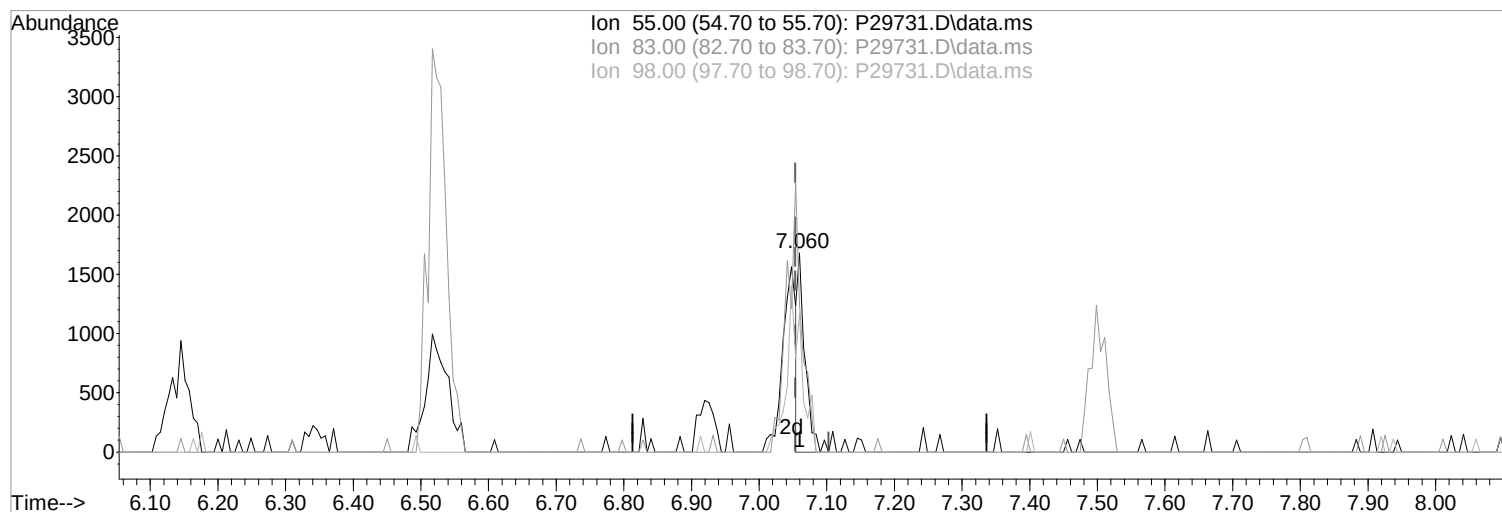
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(55) Methylcyclohexane (P)

Manual Integration:

7.060min (+0.006) 0.22 ppb

Before

response 1303

Ion	Exp%	Act%

09/12/19

55.00	100	100

83.00	121.60	74.49#

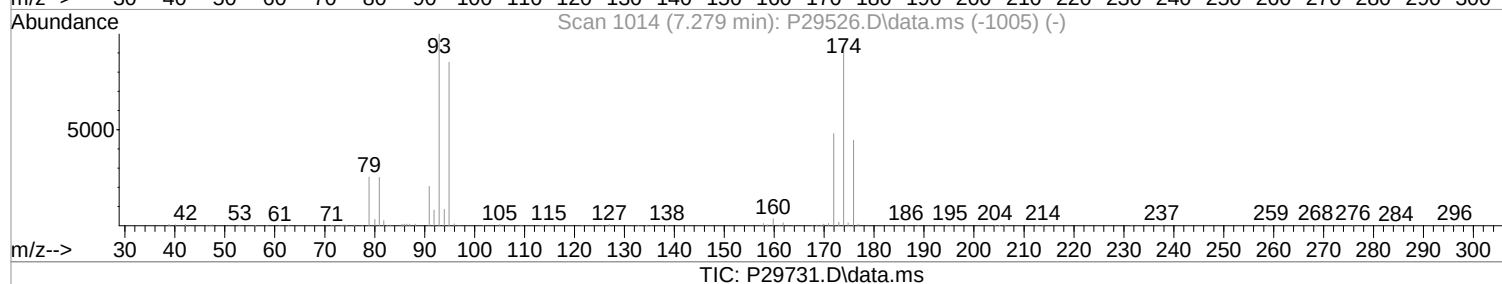
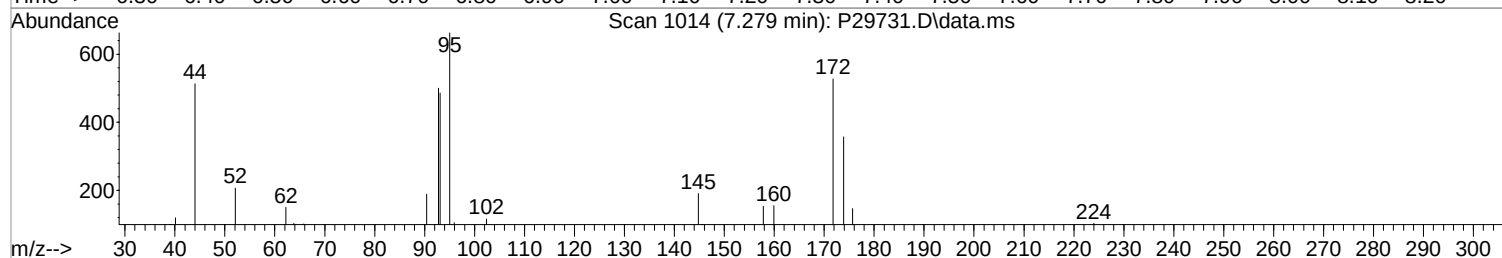
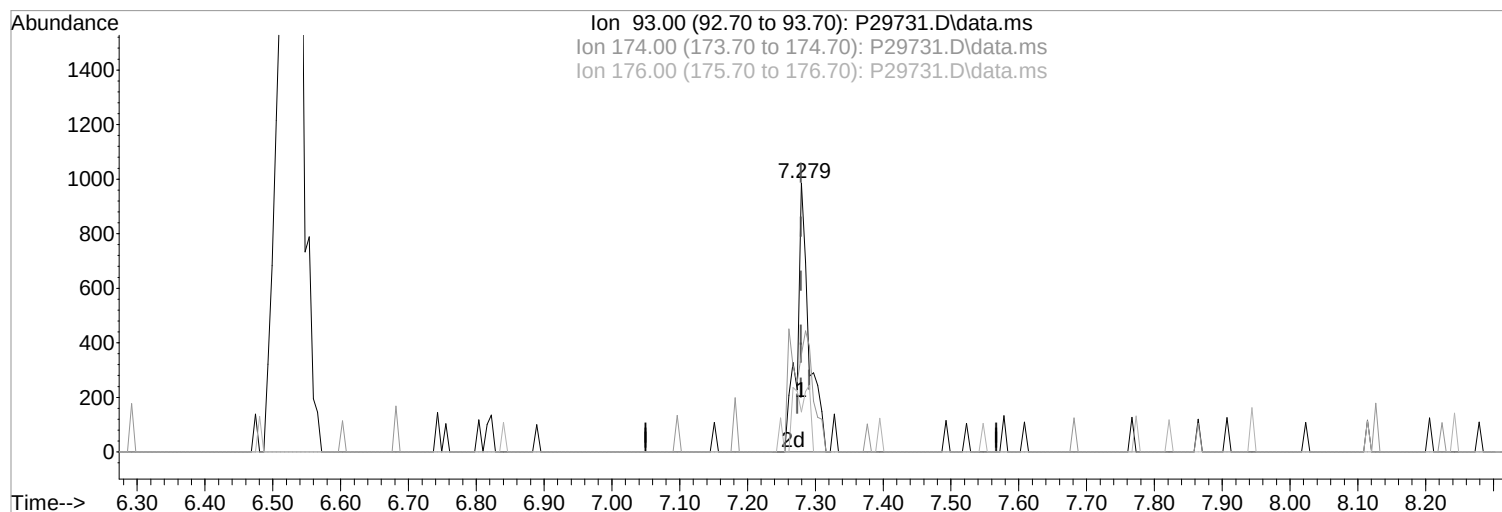
98.00	57.00	69.73

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



(57) Dibromomethane

Manual Integration:

7.279min (+0.000) 0.54 ppb m

After

response 1246

Split Peak

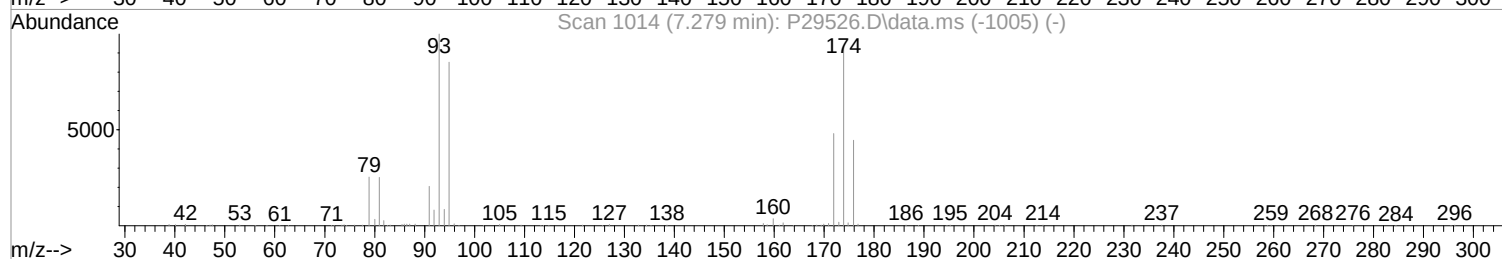
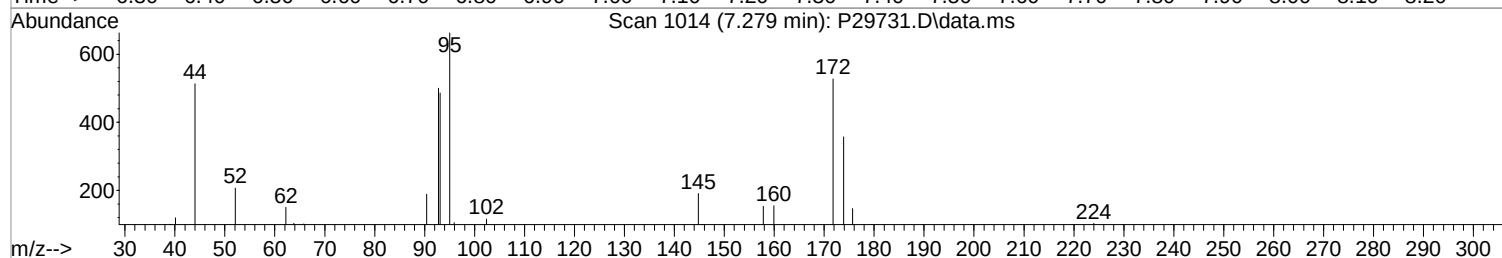
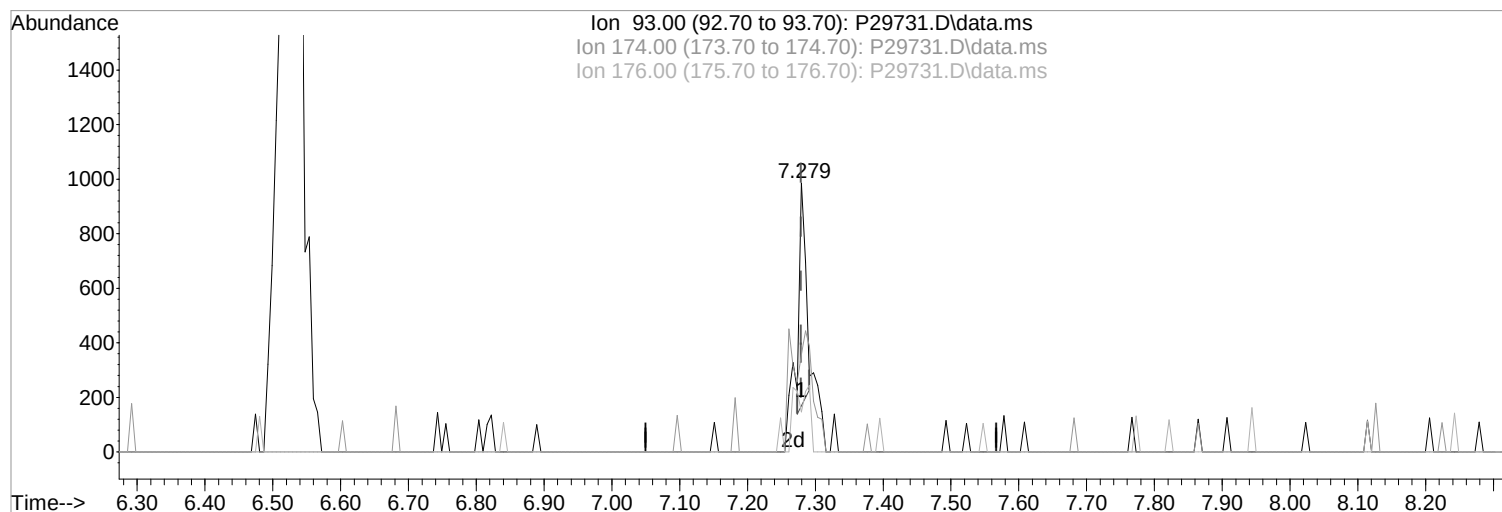
Ion	Exp%	Act%
93.00	100	100
174.00	97.30	71.40#
176.00	43.60	29.40
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(57) Dibromomethane

Manual Integration:

7.279min (+0.000) 0.22 ppb

Before

response 515

Ion	Exp%	Act%

09/12/19

93.00	100	100

174.00	97.30	36.21#

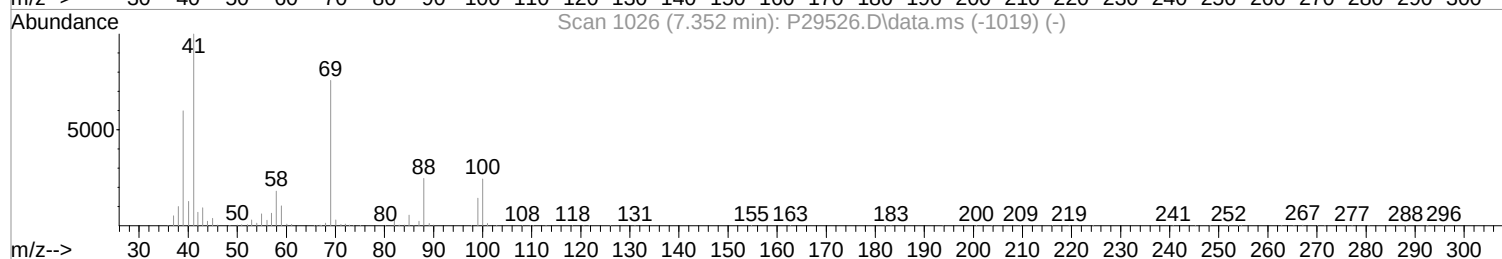
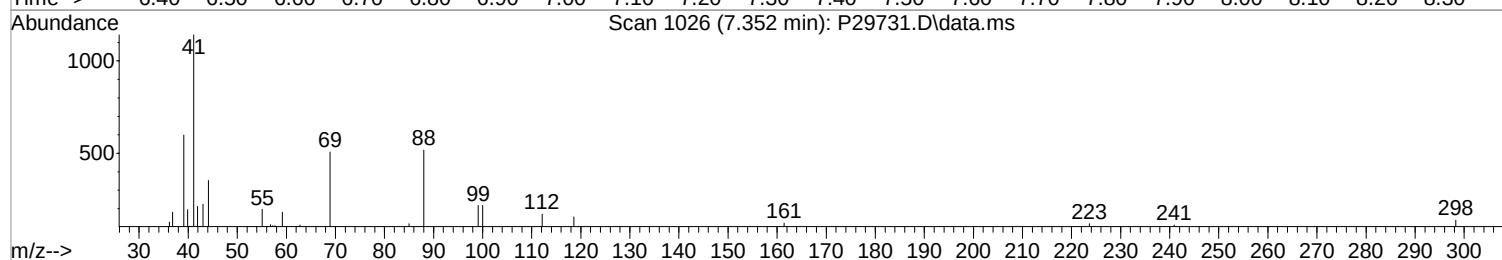
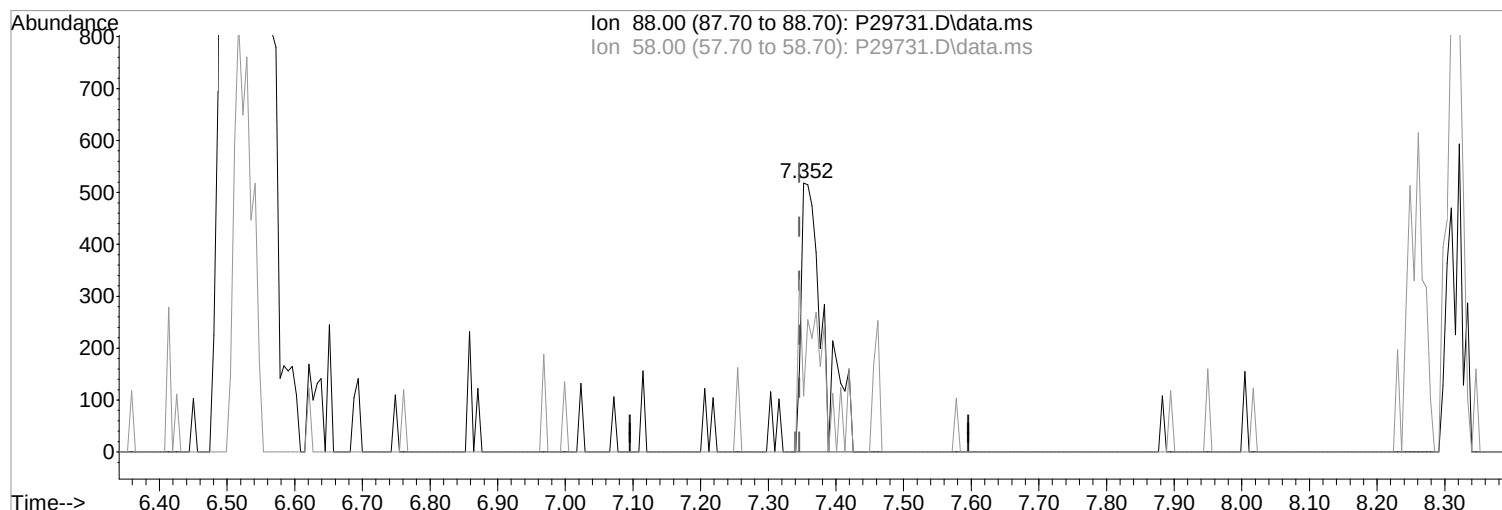
176.00	43.60	14.91#

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(58) 1,4-Dioxane

7.352min (+0.006) 11.33 ppb m

response 1219

Ion	Exp%	Act%
88.00	100	100
58.00	75.60	20.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

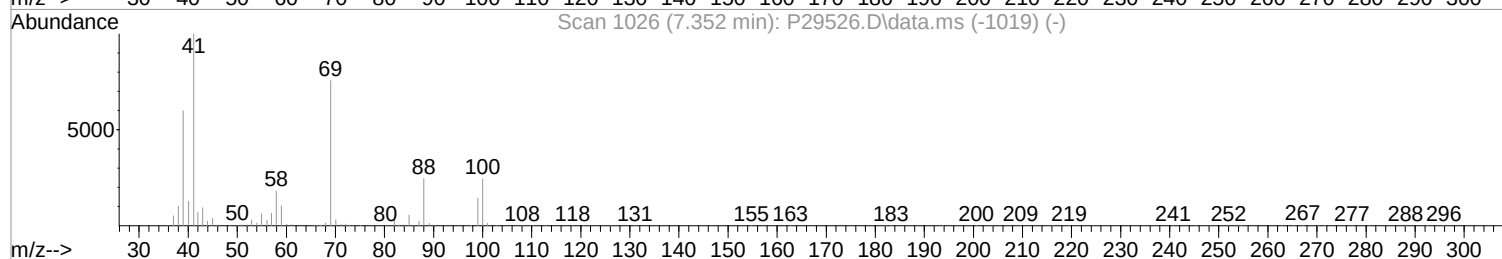
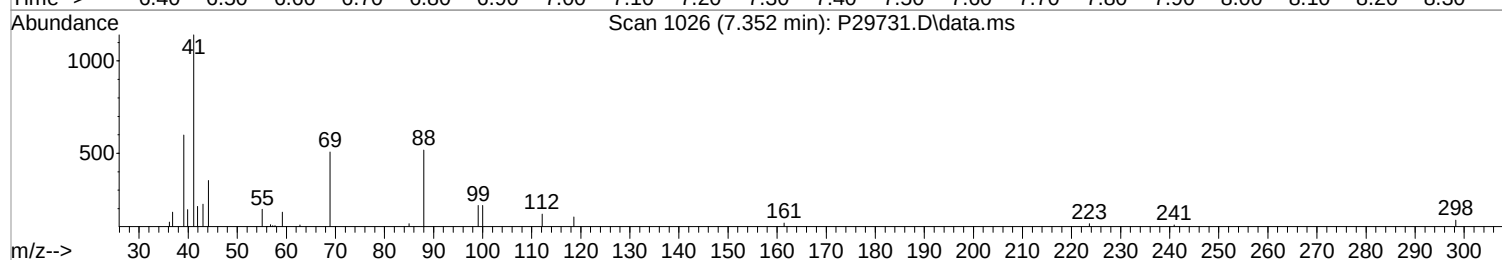
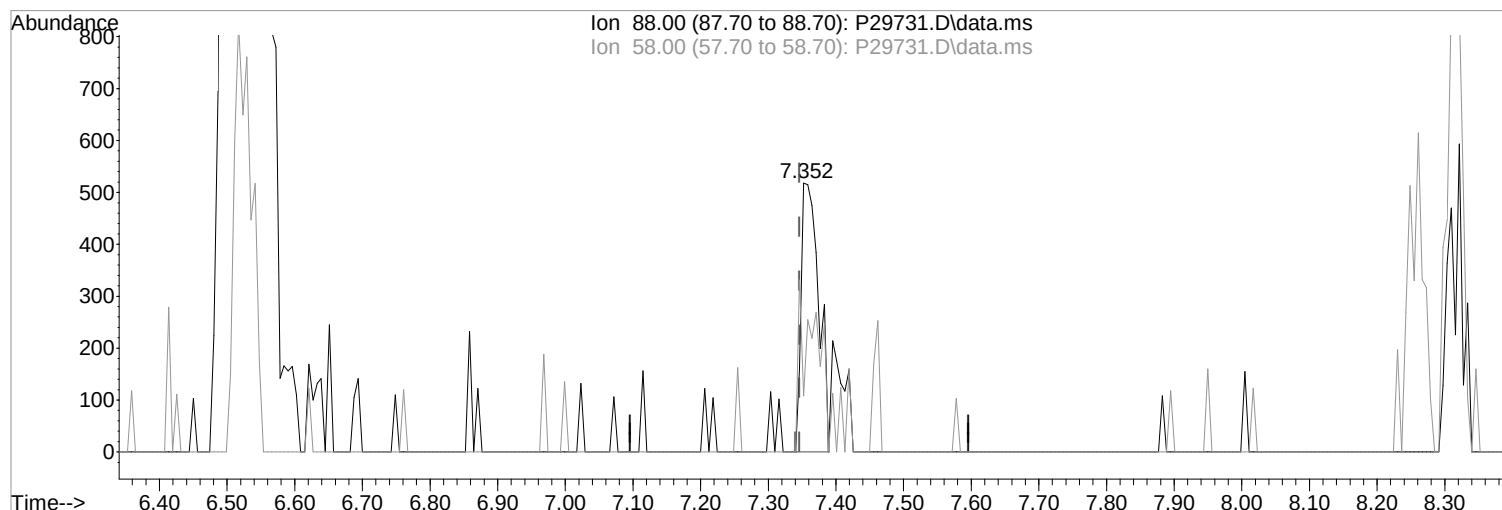
Split Peak

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(58) 1,4-Dioxane

Manual Integration:

7.352min (+0.006) 8.62 ppb

Before

response 927

Ion	Exp%	Act%

09/12/19

88.00	100	100

58.00	75.60	20.85#

0.00	0.00	0.00

0.00	0.00	0.00

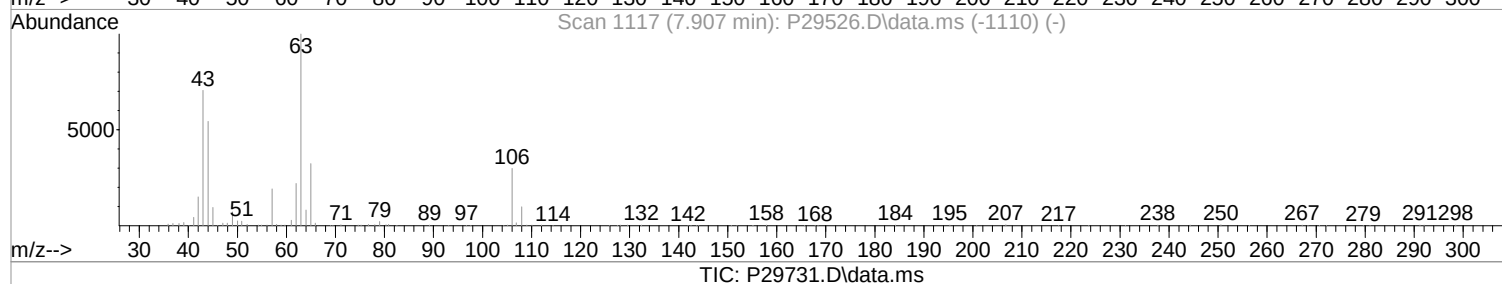
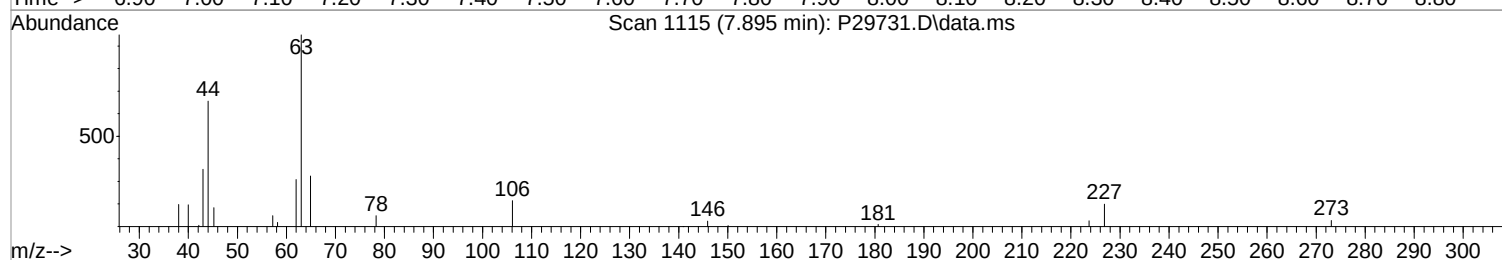
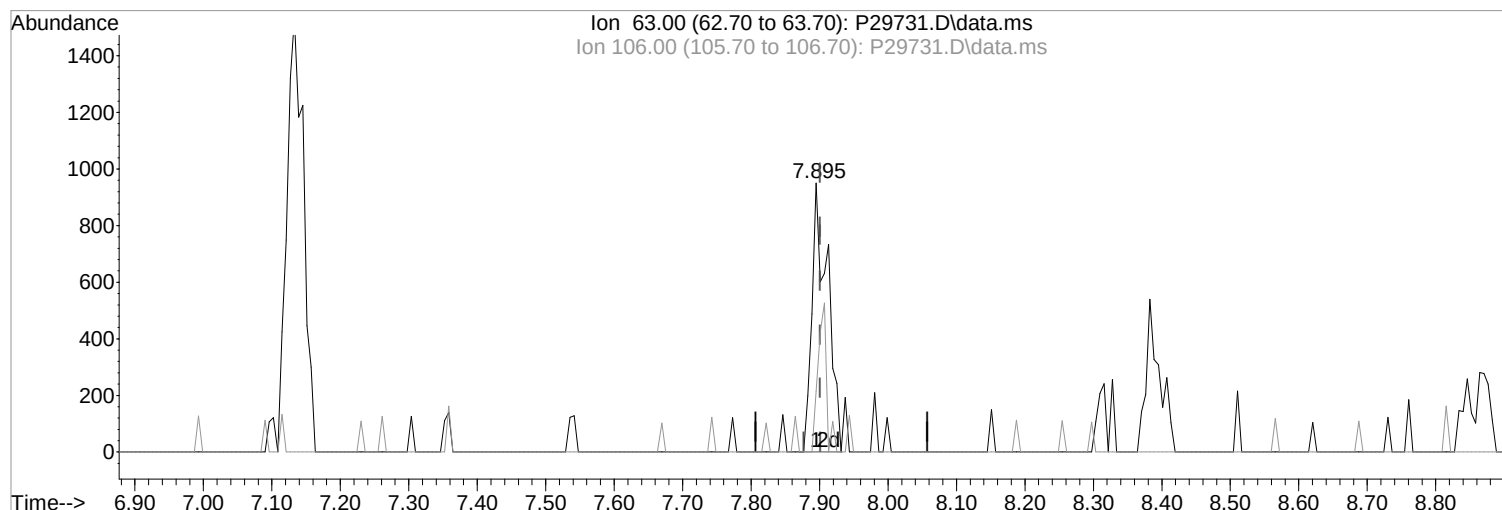
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



(62) 2-Chloroethylvinyl Ether

Manual Integration:

7.895min (-0.006) 0.48 ppb m

After

response 1514

Split Peak

Ion	Exp%	Act%
63.00	100	100
106.00	25.50	22.53
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

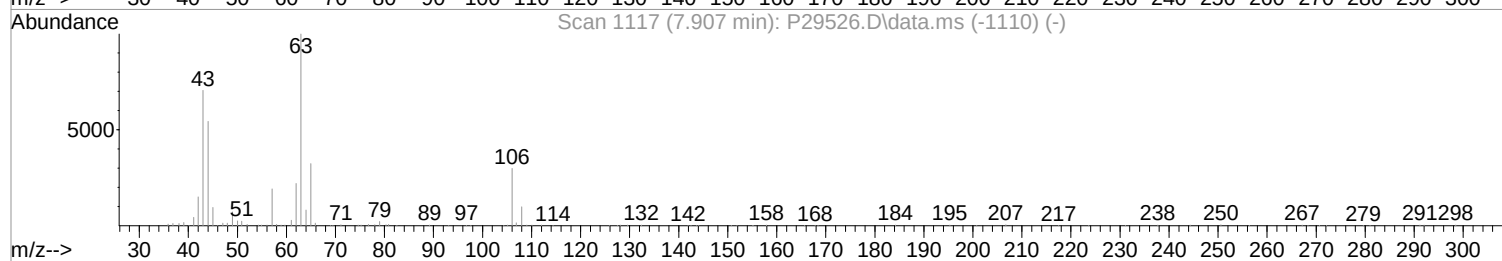
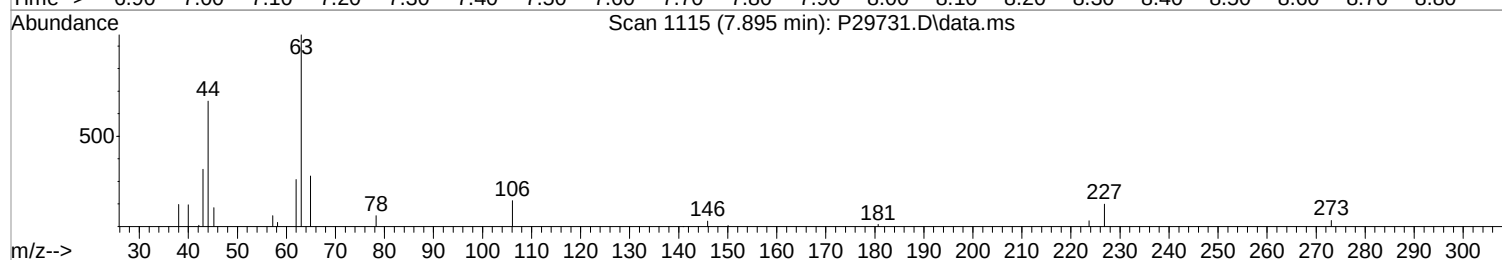
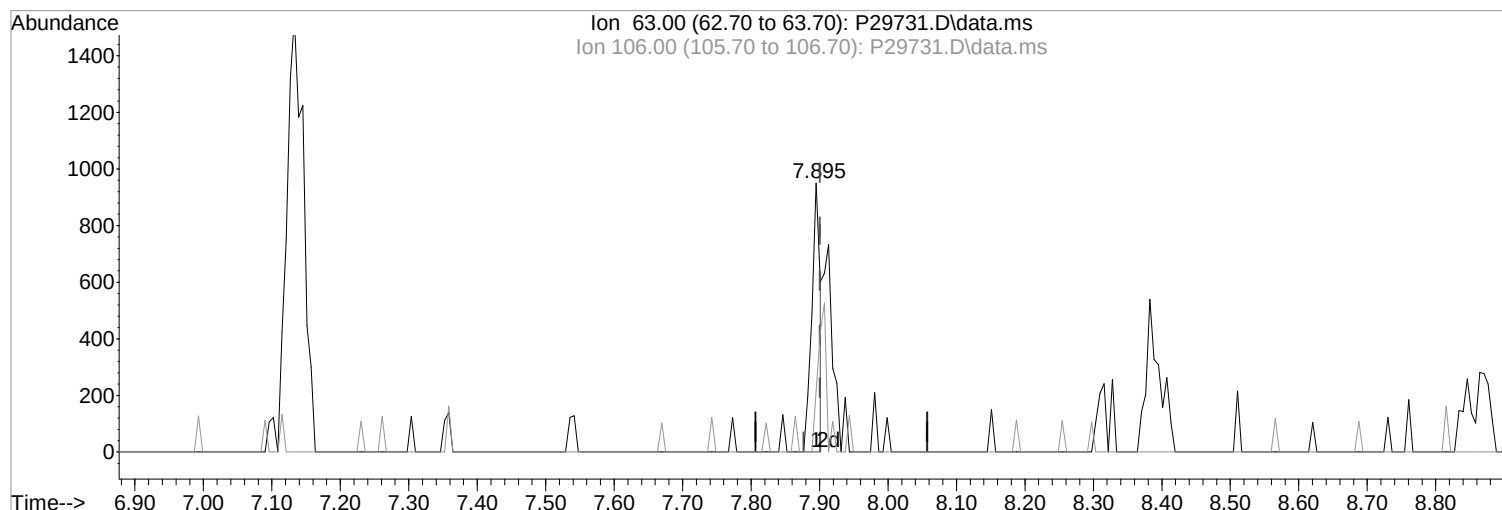
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(62) 2-Chloroethylvinyl Ether

Manual Integration:

7.895min (-0.006) 0.26 ppb

Before

response 819

Ion	Exp%	Act%

09/12/19

63.00	100	100

106.00	25.50	22.53

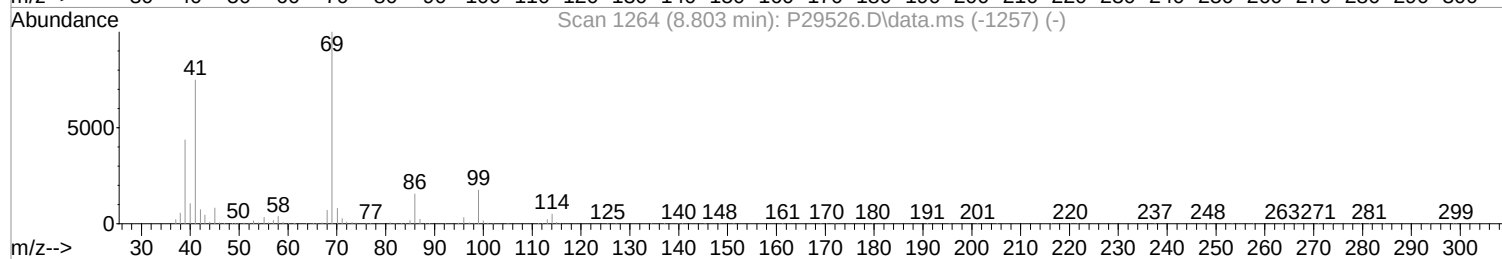
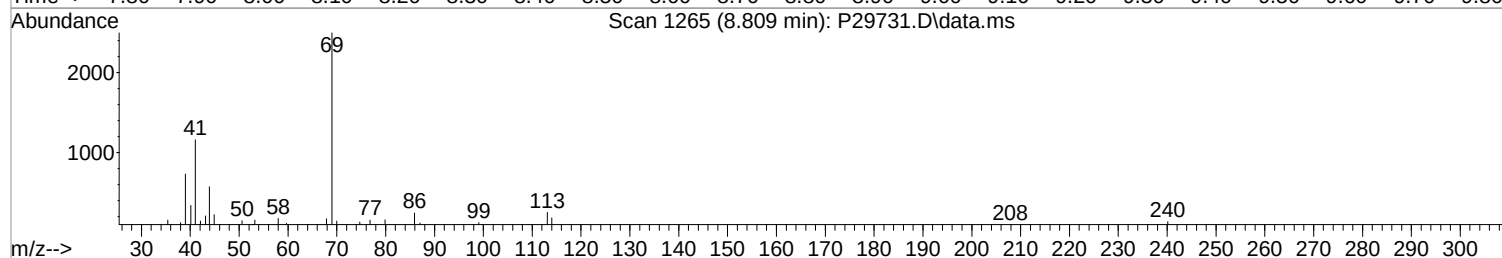
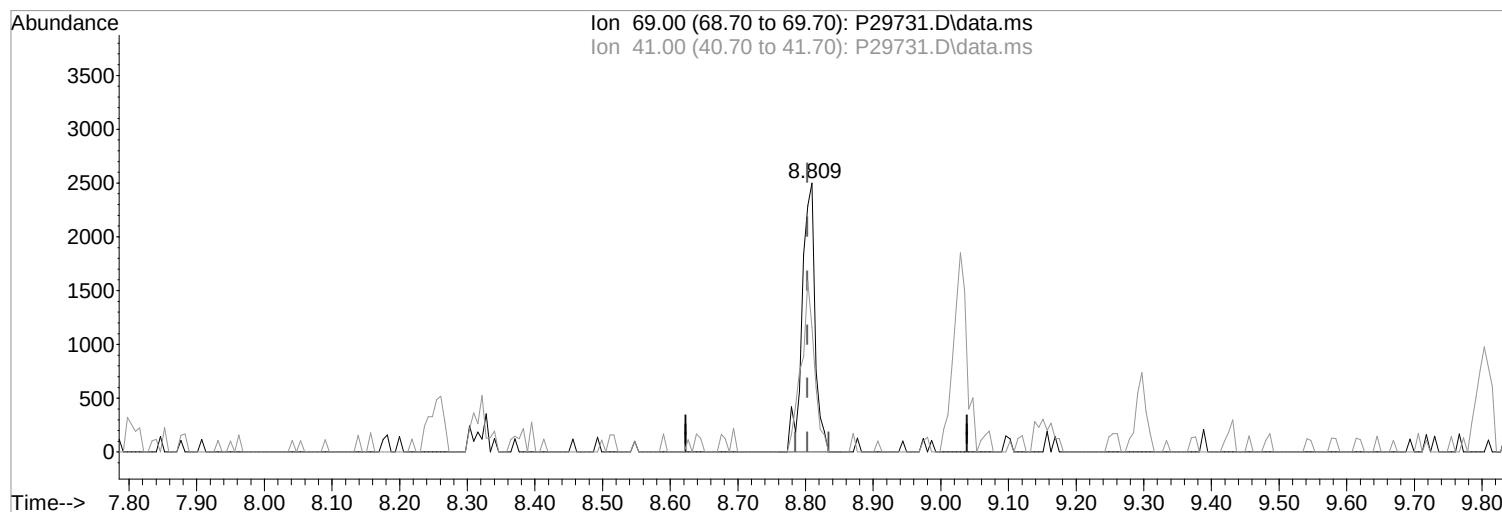
0.00	0.00	0.00

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(68) Ethyl Methacrylate

8.809min (+0.006) 0.44 ppb m

response 3315

Ion	Exp%	Act%
69.00	100	100
41.00	77.10	46.40#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

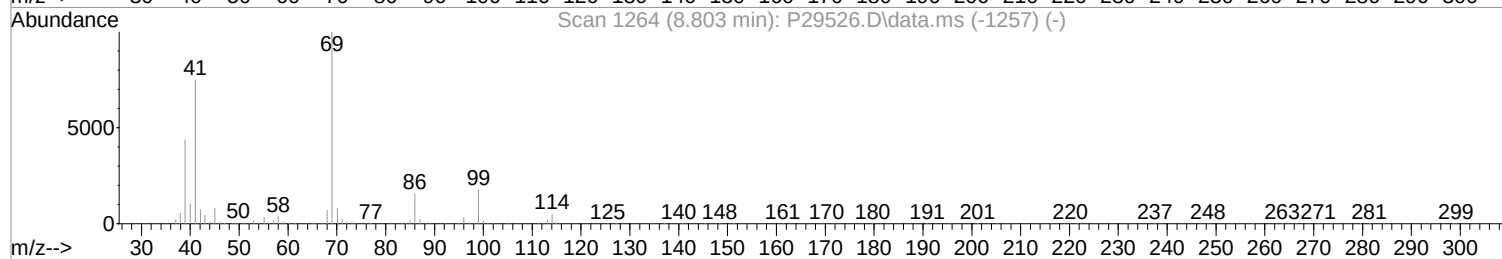
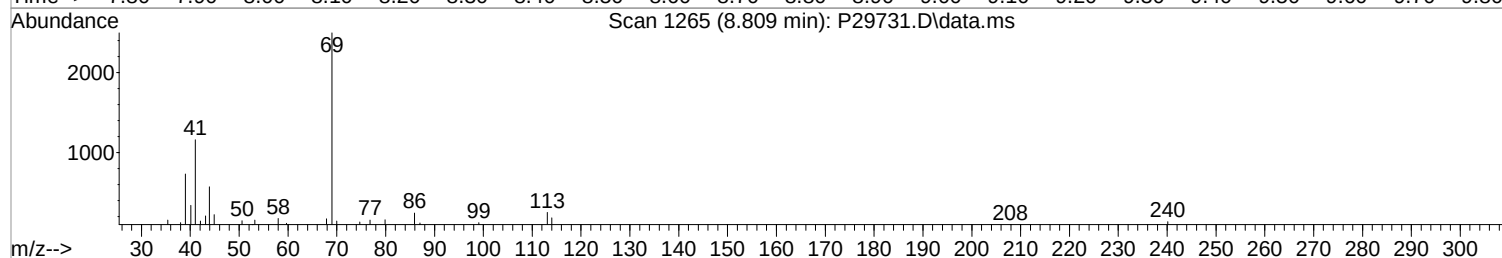
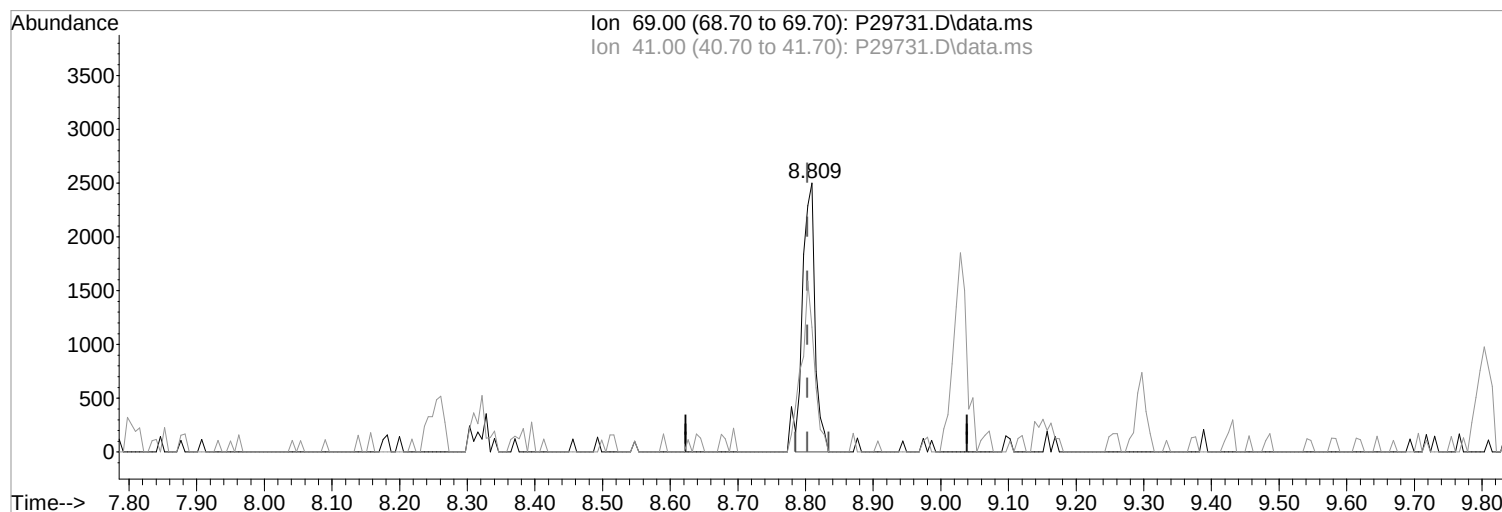
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(68) Ethyl Methacrylate

Manual Integration:

8.809min (+0.006) 0.41 ppb

Before

response 3092

Ion Exp% Act%

09/12/19

69.00 100 100

41.00 77.10 46.40#

0.00 0.00 0.00

0.00 0.00 0.00

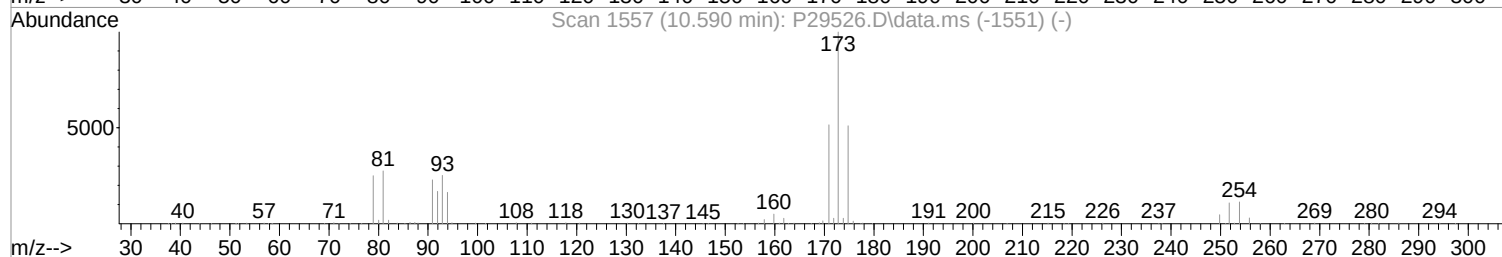
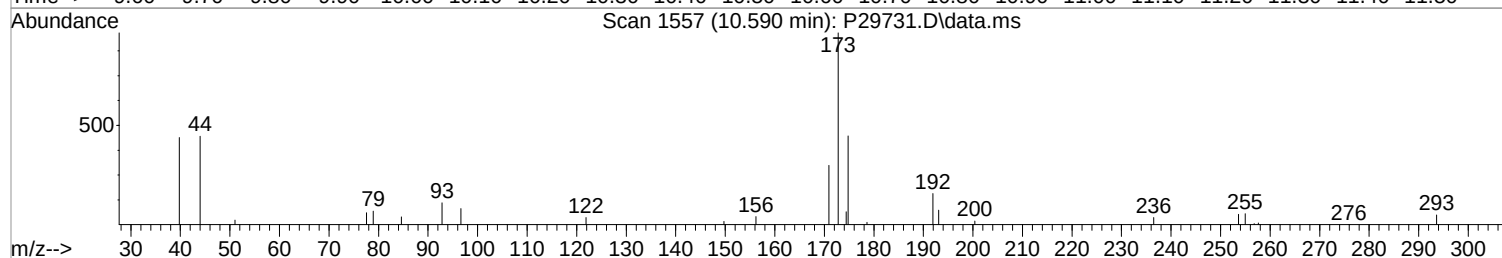
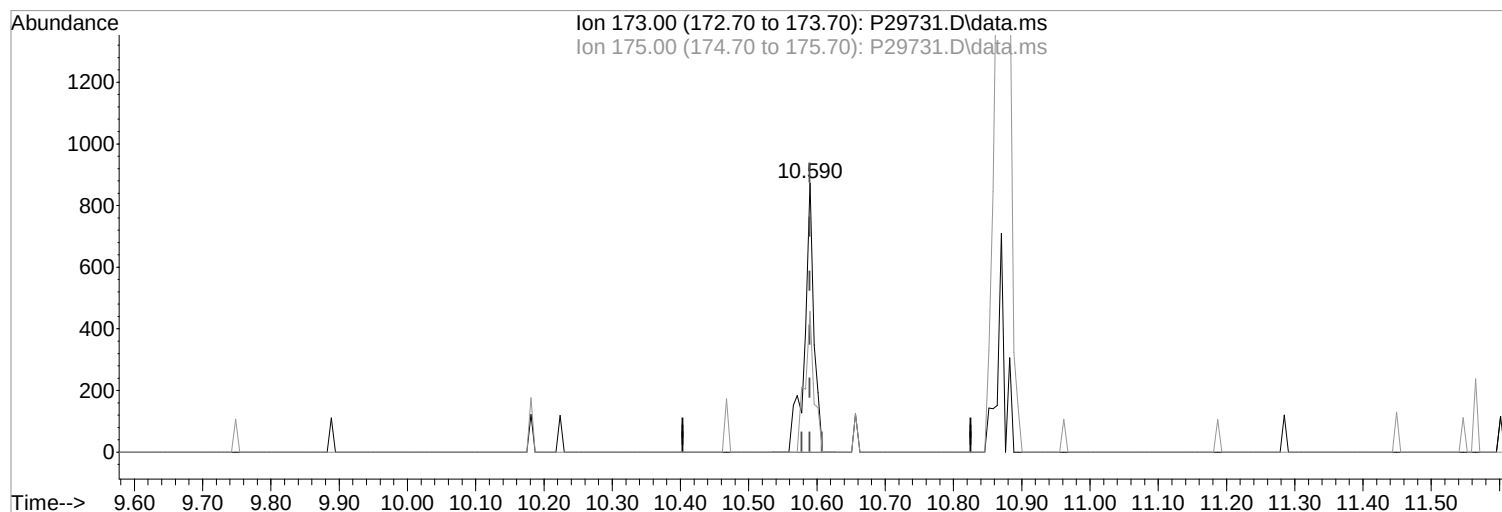
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(87) Bromoform (P)

10.590min (+0.000) 0.46 ppb m

response 829

Ion	Exp%	Act%
173.00	100	100
175.00	52.80	52.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

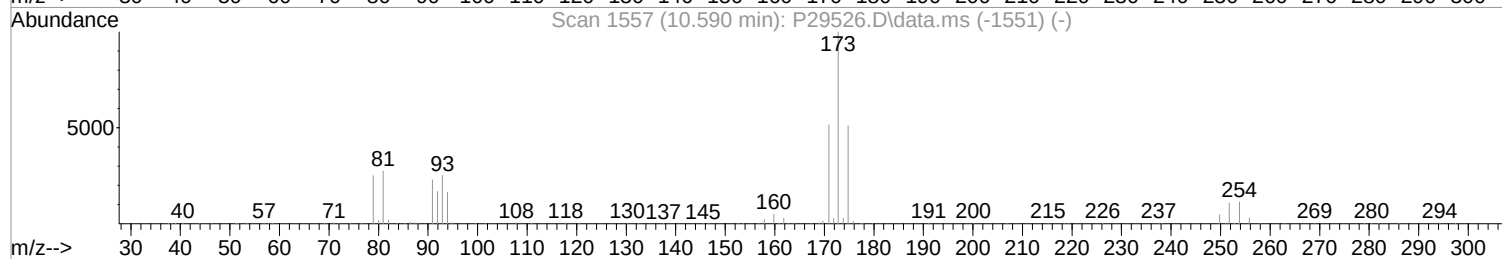
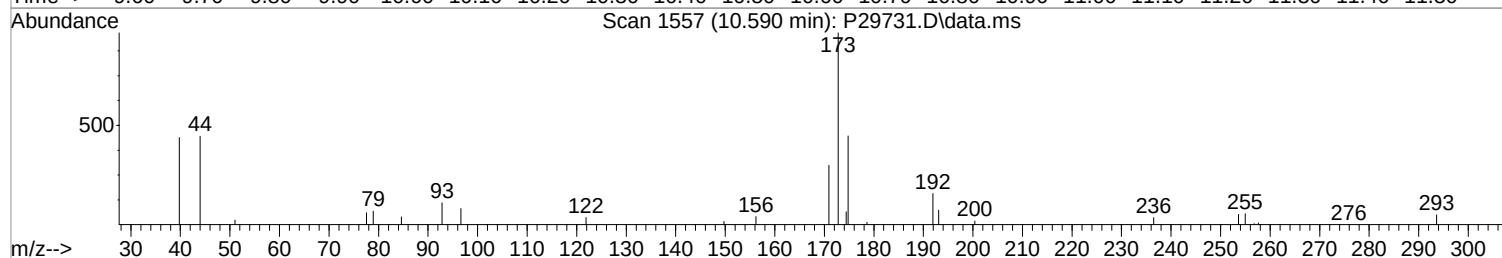
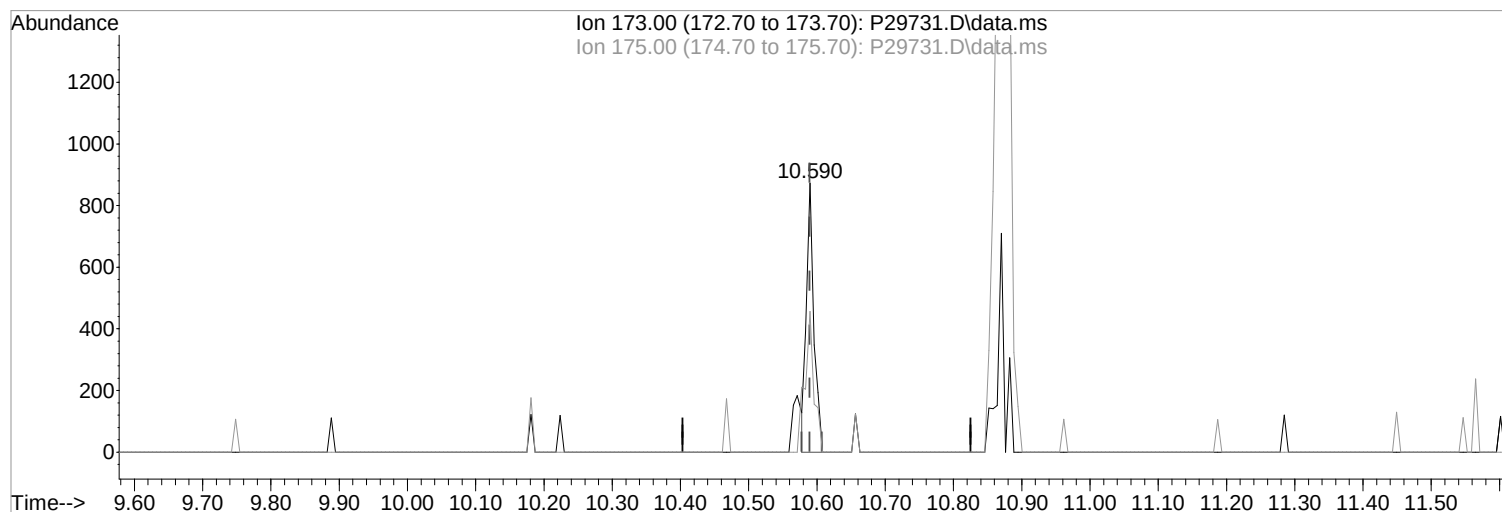
Poor integration.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29731.D\data.ms

(87) Bromoform (P)

Manual Integration:

10.590min (+0.000) 0.36 ppb

Before

response 660

Ion	Exp%	Act%
173.00	100	100
175.00	52.80	52.35
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29731.D
 Acq On : 11 Sep 2019 3:34 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:28:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	344778	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	562397	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	503688	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	259929	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	32171	10.79	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.58%#
48) surr1,1,2-dichloroetha...	5.853	65	47891	11.61	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	23.22%#
65) SURR3,Toluene-d8	8.316	98	165601	11.80	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.60%#
70) SURR2,BFB	10.870	95	64735	11.86	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	23.72%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.195	85	1916	0.45	ppb	79
3) Chloromethane	1.323	50	3982	0.61	ppb	94
4) Vinyl Chloride	1.402	62	3326	0.54	ppb	84
5) Bromomethane	1.634	94	2343	0.70	ppb	89
6) Chloroethane	1.713	64	1905	0.52	ppb	94
7) Freon 21	1.866	67	3493	0.51	ppb	89
8) Trichlorofluoromethane	1.908	101	2503	0.50	ppb	92
9) Diethyl Ether	2.146	59	2265	0.52	ppb	89
10) Freon 123a	2.152	67	2894	0.61	ppb	76
11) Freon 123	2.207	83	2883	0.55	ppb	# 69
12) Acrolein	2.256	56	3099	2.54	ppb	# 50
13) 1,1-Dicethene	2.329	96	1681	0.50	ppb	86
14) Freon 113	2.323	101	1794	0.55	ppb	82
15) Acetone	2.402	43	2673	0.95	ppb	86
16) 2-Propanol	2.542	45	4317	6.77	ppb	82
17) Iodomethane	2.469	142	1059	0.27	ppb	78
18) Carbon Disulfide	2.524	76	6220	0.62	ppb	86
20) Allyl Chloride	2.670	76	900	0.47	ppb	# 83
21) Methyl Acetate	2.707	43	3090	0.56	ppb	73
22) Methylene Chloride	2.798	84	2642	0.60	ppb	# 82
23) TBA	2.951	59	6593	6.98	ppb	96
24) Acrylonitrile	3.079	53	7019	2.45	ppb	# 65
25) Methyl-t-Butyl Ether	3.091	73	5878	0.41	ppb	93
26) trans-1,2-Dichloroethene	3.085	96	1732	0.47	ppb	# 79
28) 1,1-Dicethane	3.597	63	3433	0.45	ppb	# 78
30) DIPE	3.701	45	8467	0.51	ppb	86
31) 2-Chloro-1,3-Butadiene	3.707	53	2817	0.46	ppb	85
32) ETBE	4.237	59	7204	0.49	ppb	# 76
33) 2,2-Dichloropropane	4.420	77	2749m	0.49	ppb	
34) cis-1,2-Dichloroethene	4.444	96	1957m	0.47	ppb	
36) Propionitrile	4.646	54	2187	1.80	ppb	85
37) Bromochloromethane	4.853	130	1398m	0.56	ppb	
38) Methacrylonitrile	4.896	67	1354	0.47	ppb	# 49
39) Tetrahydrofuran	4.981	42	5574	1.73	ppb	91
40) Chloroform	5.030	83	3070	0.46	ppb	# 75
41) 1,1,1-Trichloroethane	5.292	97	2421m	0.45	ppb	
42) TAME	6.145	73	5695	0.42	ppb	95
44) Cyclohexane	5.359	41	2693m	0.60	ppb	
46) Carbontetrachloride	5.566	117	2085m	0.54	ppb	

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29731.D
 Acq On : 11 Sep 2019 3:34 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : WATER ICAL
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:28:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1-Dichloropropene	5.584	75	2695m	0.50	ppb	
49) Benzene	5.901	78	8685	0.51	ppb	98
50) 1,2-Dichloroethane	5.969	62	3084	0.54	ppb	86
51) Iso-Butyl Alcohol	5.975	43	3274m	6.80	ppb	
52) n-Heptane	6.359	43	3061	0.48	ppb	85
53) 1-Butanol	6.926	56	3994	14.47	ppb	90
54) Trichloroethene	6.834	130	2024	0.54	ppb	# 72
55) Methylcyclohexane	7.060	55	3414m	0.56	ppb	
56) 1,2-Dicloropropane	7.133	63	2630	0.56	ppb	81
57) Dibromomethane	7.279	93	1246m	0.54	ppb	
58) 1,4-Dioxane	7.352	88	1219m	11.33	ppb	
59) Methyl Methacrylate	7.358	69	1640	0.38	ppb	# 72
60) Bromodichloromethane	7.499	83	2036	0.45	ppb	82
62) 2-Chloroethylvinyl Ether	7.895	63	1514m	0.48	ppb	
63) cis-1,3-Dichloropropene	8.035	75	2987	0.45	ppb	94
64) 4-Methyl-2-pentanone	8.261	43	2727	0.38	ppb	96
66) Toluene	8.389	91	9114	0.53	ppb	97
67) trans-1,3-Dichloropropene	8.675	75	3298	0.54	ppb	81
68) Ethyl Methacrylate	8.809	69	3315m	0.44	ppb	
69) 1,1,2-Trichloroethane	8.864	97	1371	0.36	ppb	# 76
72) Tetrachloroethene	8.974	164	1576	0.52	ppb	# 76
73) 2-Hexanone	9.163	43	1848	0.33	ppb	88
74) 1,3-Dichloropropane	9.029	76	3644	0.48	ppb	83
75) Dibromochloromethane	9.248	129	1346	0.43	ppb	75
76) N-Butyl Acetate	9.291	43	4174	0.39	ppb	92
77) 1,2-Dibromoethane	9.346	107	1979	0.50	ppb	89
78) Chlorobenzene	9.828	112	6227	0.56	ppb	84
79) 3-CBTF	9.846	180	2482	0.43	ppb	# 80
80) 4-CBTF	9.901	180	2571	0.50	ppb	95
81) 1,1,1,2-Tetrachloroethane	9.913	131	1411	0.43	ppb	# 62
82) Ethylbenzene	9.937	106	3187	0.53	ppb	92
83) (m+p)Xylene	10.047	106	7241	0.99	ppb	90
84) o-Xylene	10.413	106	4016	0.54	ppb	92
85) Styrene	10.431	104	5759	0.47	ppb	94
87) Bromoform	10.590	173	829m	0.46	ppb	
88) 2-CBTF	10.663	180	2797	0.52	ppb	# 62
89) Isopropylbenzene	10.742	105	9234	0.52	ppb	97
90) Cyclohexanone	10.833	55	7032	9.28	ppb	# 74
91) trans-1,4-Dichloro-2-B...	11.071	53	826	0.42	ppb	# 63
92) 1,1,2,2-Tetrachloroethane	11.016	83	2552	0.43	ppb	94
93) Bromobenzene	10.992	156	2221	0.51	ppb	# 69
94) 1,2,3-Trichloropropane	11.059	110	905	0.47	ppb	# 50
95) n-Propylbenzene	11.096	91	11705	0.55	ppb	92
96) 2-Chlorotoluene	11.163	91	7030	0.52	ppb	96
97) 3-Chlorotoluene	11.211	91	7352	0.54	ppb	# 88
98) 4-Chlorotoluene	11.254	91	7420	0.51	ppb	80
99) 1,3,5-Trimethylbenzene	11.248	105	7513	0.51	ppb	83
100) tert-Butylbenzene	11.516	119	6481	0.50	ppb	87
101) 1,2,4-Trimethylbenzene	11.559	105	7074	0.48	ppb	85
102) 3,4-DCBTF	11.620	214	2762	0.62	ppb	# 69
103) sec-Butylbenzene	11.699	105	10445	0.56	ppb	88
104) p-Isopropyltoluene	11.821	119	8759	0.54	ppb	86
105) 1,3-Dclbenz	11.784	146	4743	0.54	ppb	87
106) 1,4-Dclbenz	11.864	146	4885	0.55	ppb	# 73
107) 2,4-DCBTF	11.919	214	2395	0.59	ppb	# 71
108) 2,5-DCBTF	11.949	214	2744	0.60	ppb	# 84

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29731.D
Acq On : 11 Sep 2019 3:34 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : WATER ICAL
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:28:22 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) n-Butylbenzene	12.150	91	9043	0.57	ppb	85
110) 1,2-Dclbenz	12.162	146	4216	0.49	ppb	91
111) 1,2-Dibromo-3-chloropr...	12.796	157	569	0.42	ppb	94
112) Trielution Dichlorotol...	12.900	125	12599	1.60	ppb #	91
113) 1,3,5 Trichlorobenzene	12.949	180	3551	0.55	ppb #	81
114) Coelution Dichlorotoluene	13.229	125	10356	1.17	ppb #	88
115) 1,2,4-Tcbenzene	13.437	180	3403	0.51	ppb	89
116) Hexachlorobt	13.565	225	1438	0.54	ppb #	77
117) Naphthalen	13.632	128	10022	0.48	ppb	81
118) 1,2,3-Tclbenzene	13.815	180	3694	0.56	ppb	93
119) 2,4,5-Trichlorotolene	14.400	159	2594	0.52	ppb #	82
120) 2,3,6-Trichlorotoluene	14.479	159	2795	0.54	ppb #	79

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

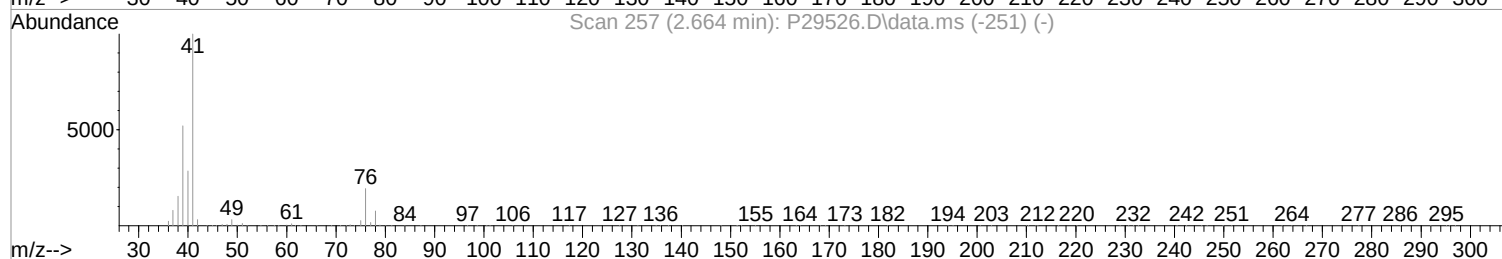
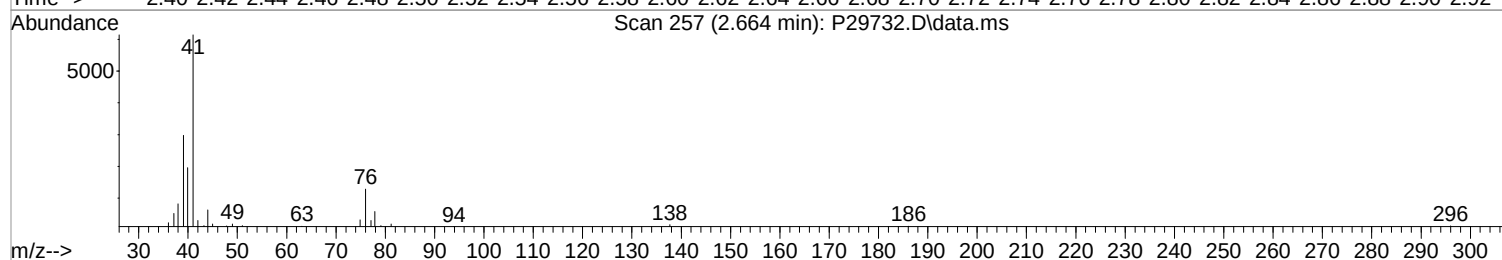
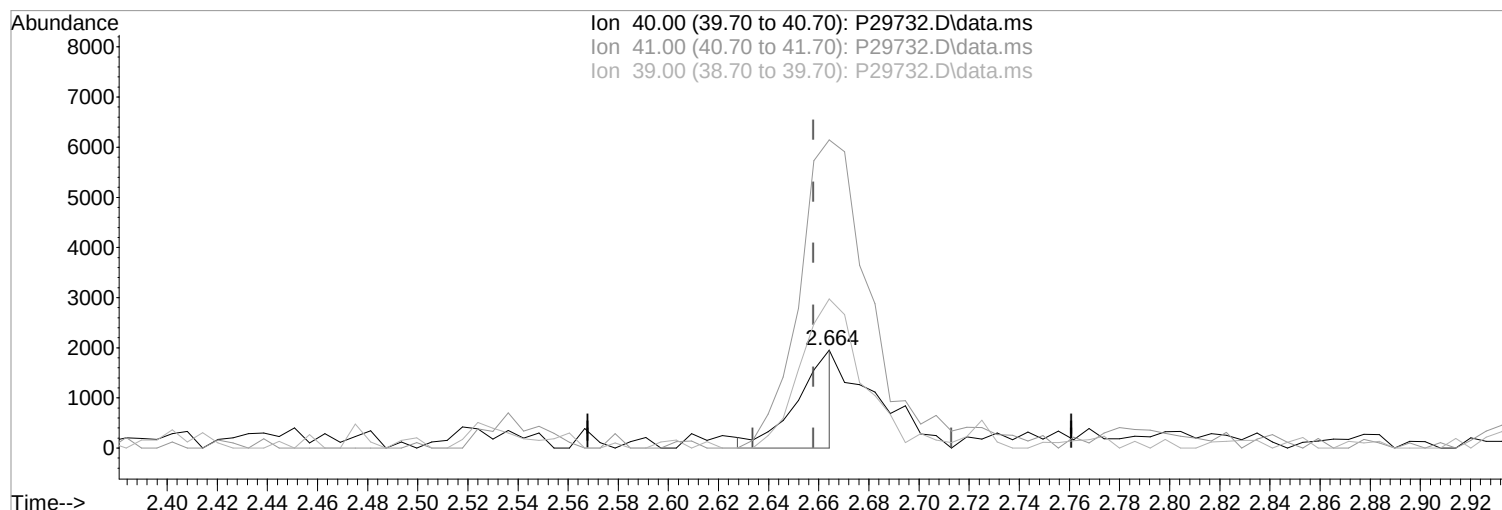
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(19) Acetonitrile

2.664min (+0.006) 4.76 ppb m

response 2011

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	314.48
39.00	137.60	152.02
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

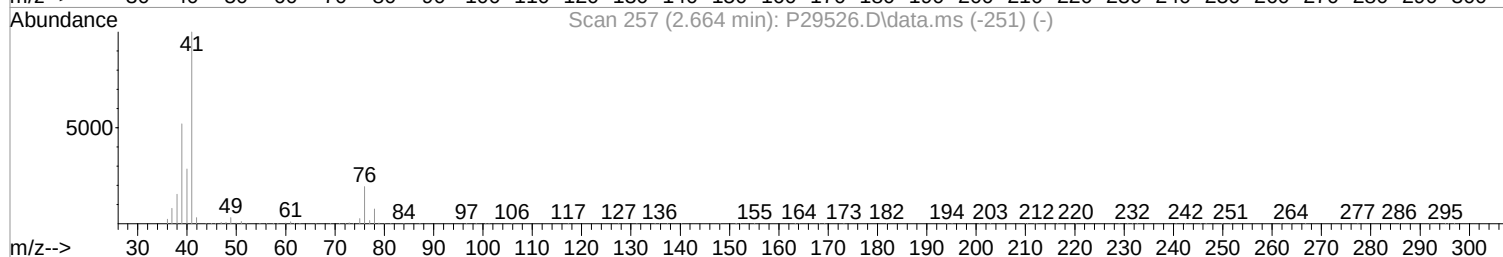
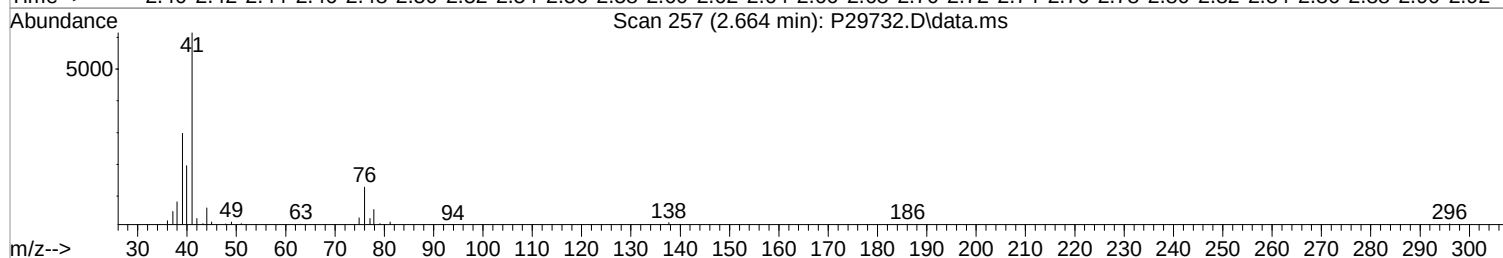
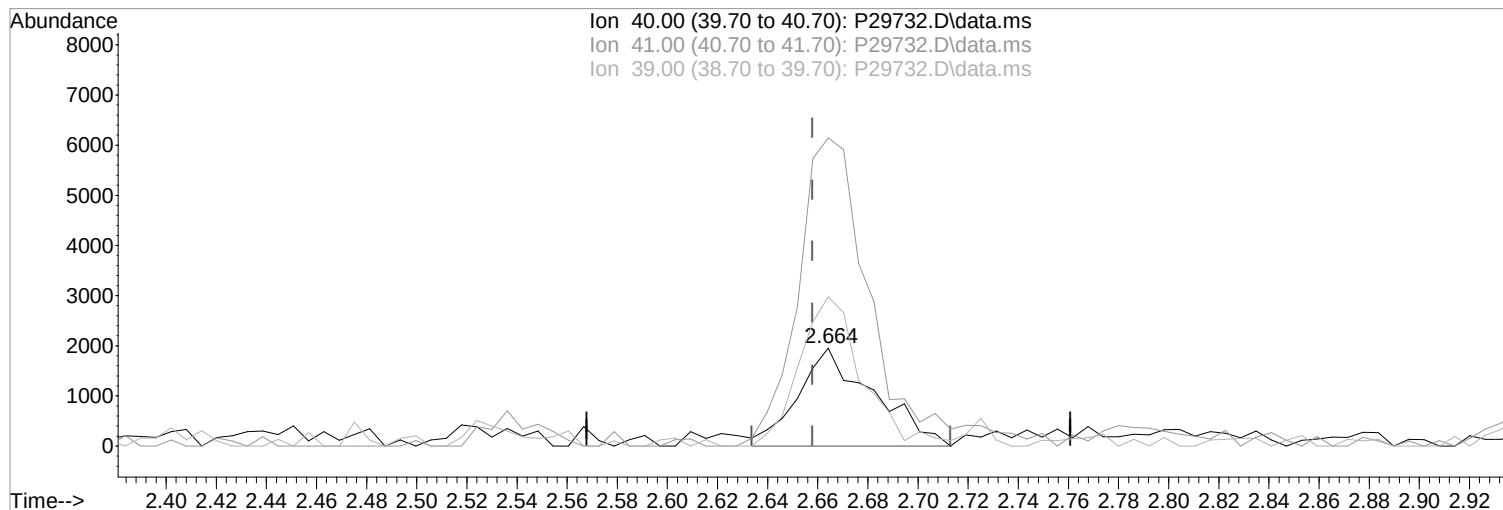
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(19) Acetonitrile

Manual Integration:

2.664min (+0.006) 9.60 ppb

Before

response 4059

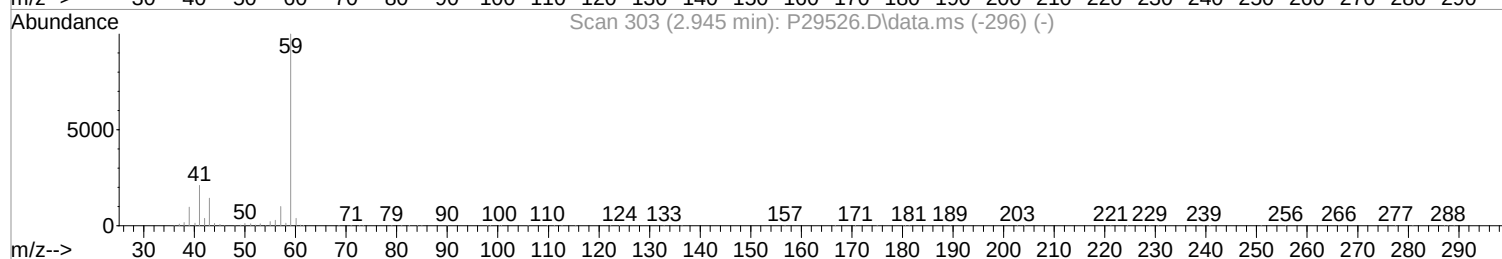
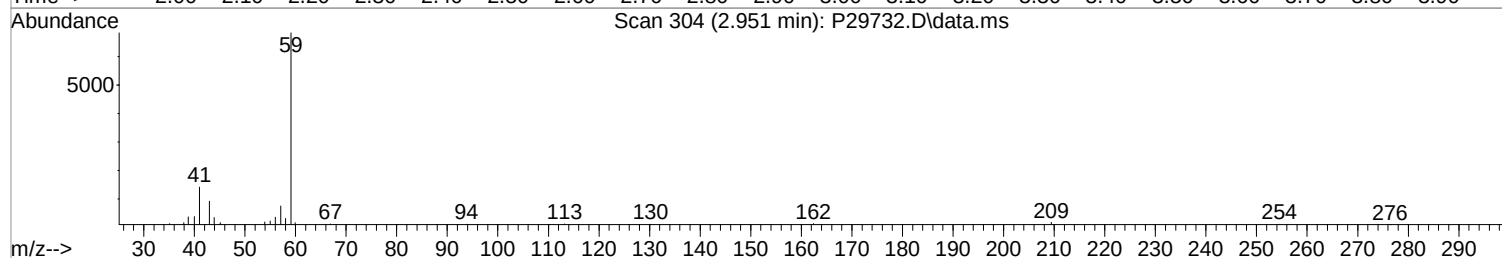
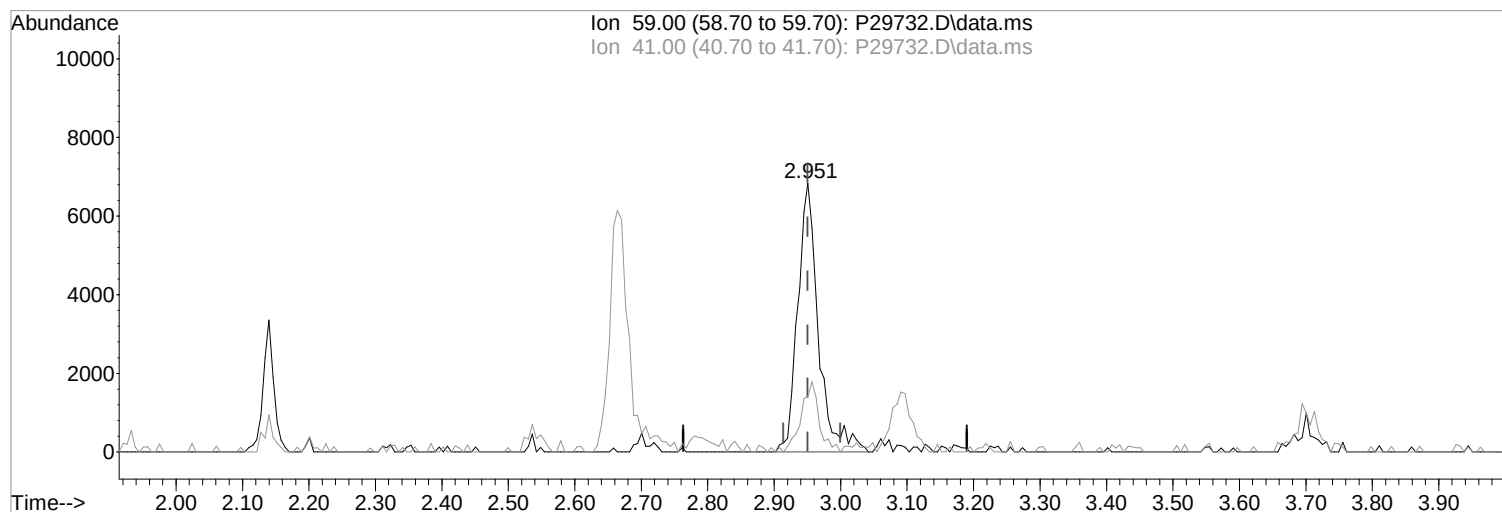
Ion	Exp%	Act%
40.00	100	100
41.00	334.20	314.48
39.00	137.60	152.02
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
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Response via : Initial Calibration



TIC: P29732.D\data.ms

(23) TBA

2.951min (+0.000) 15.91 ppb m

response 14787

Ion	Exp%	Act%
59.00	100	100
41.00	22.20	20.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

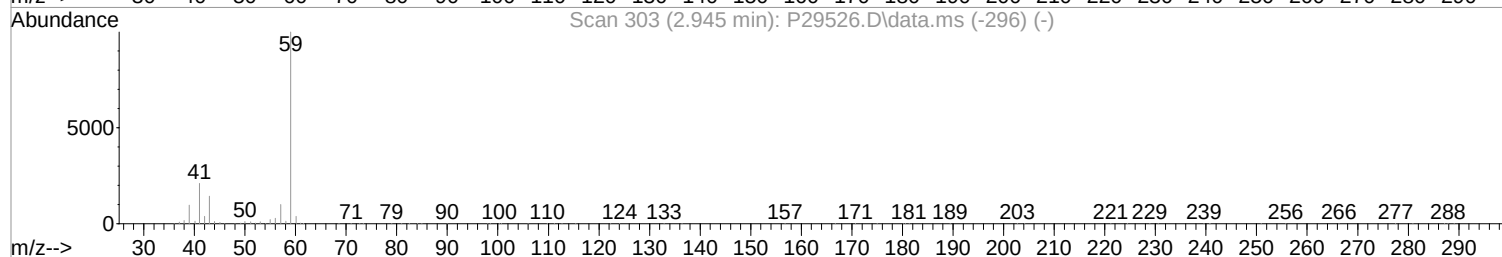
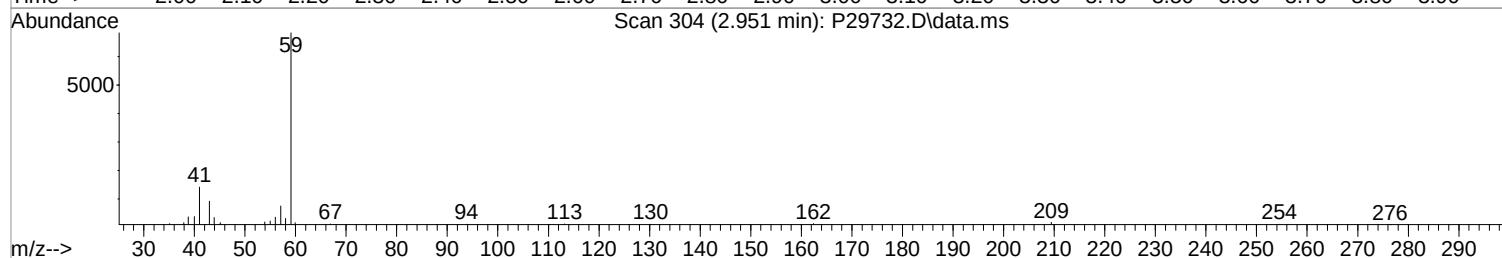
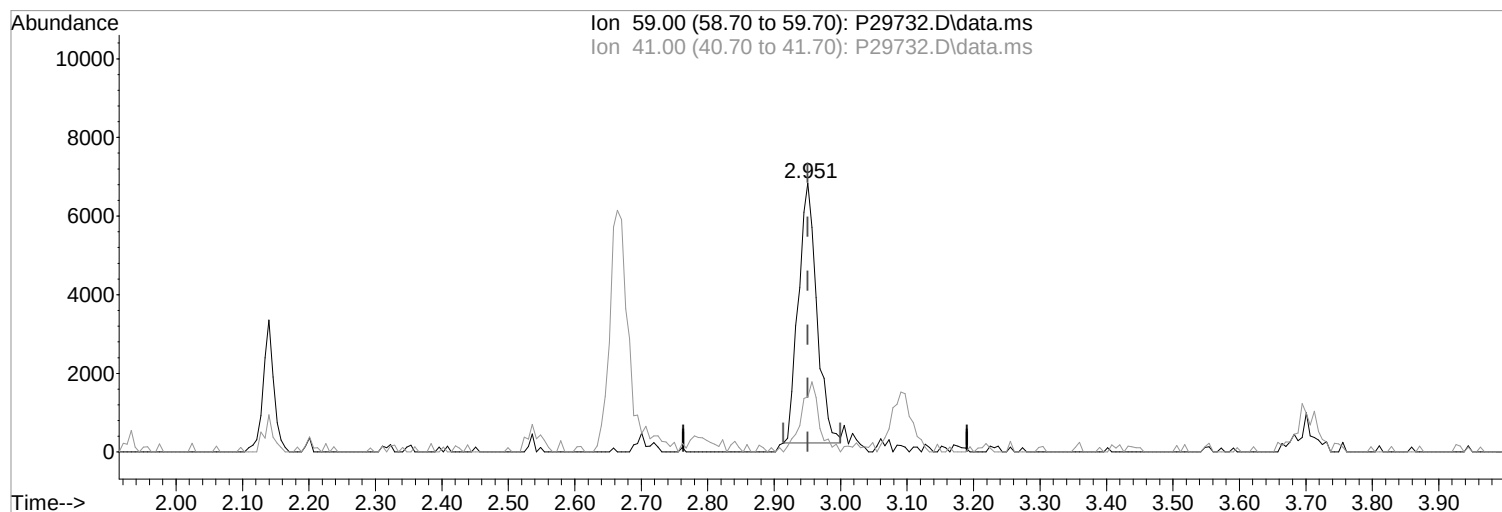
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(23) TBA

Manual Integration:

2.951min (+0.000) 13.69 ppb

Before

response 12726

Ion	Exp%	Act%
59.00	100	100
41.00	22.20	20.57
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

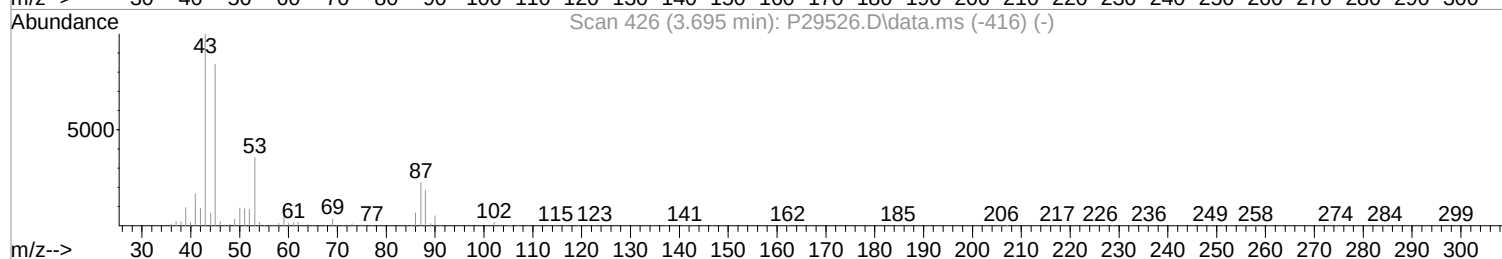
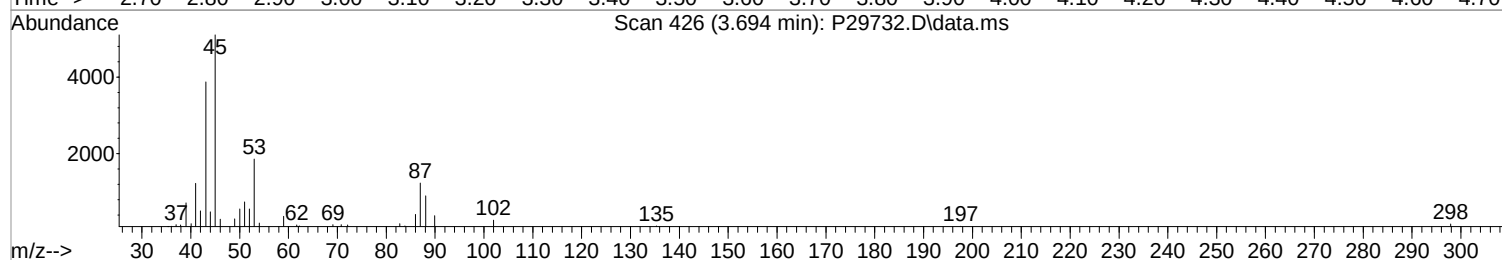
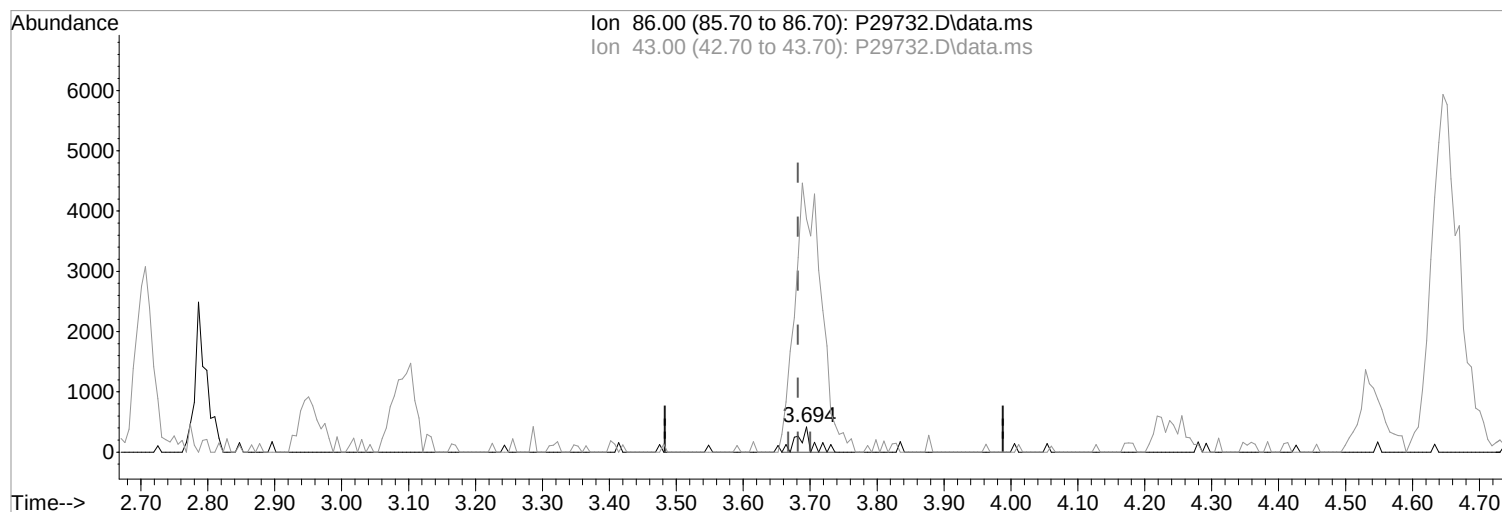
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(29) Vinyl Acetate

3.694min (+0.012) 0.74 ppb m

response 602

Ion	Exp%	Act%
86.00	100	100
43.00	1567.90	930.53#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

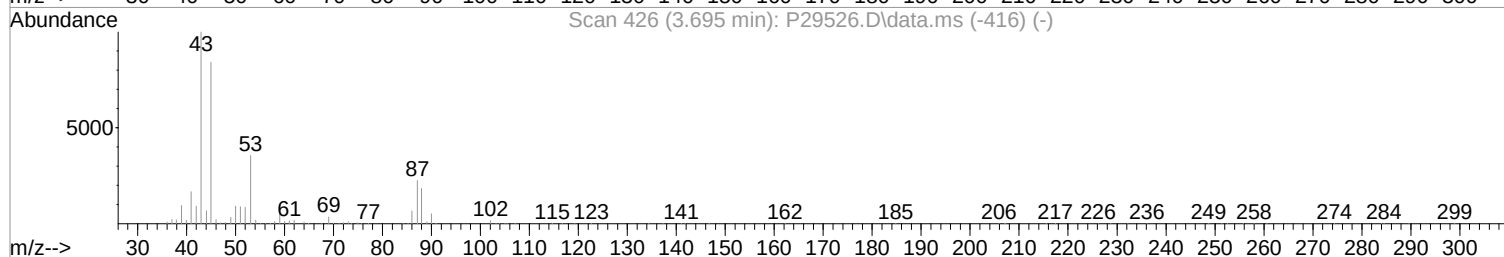
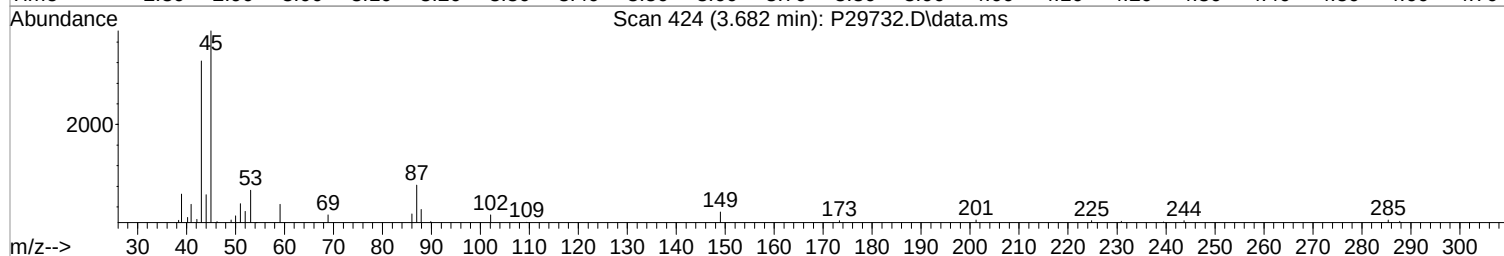
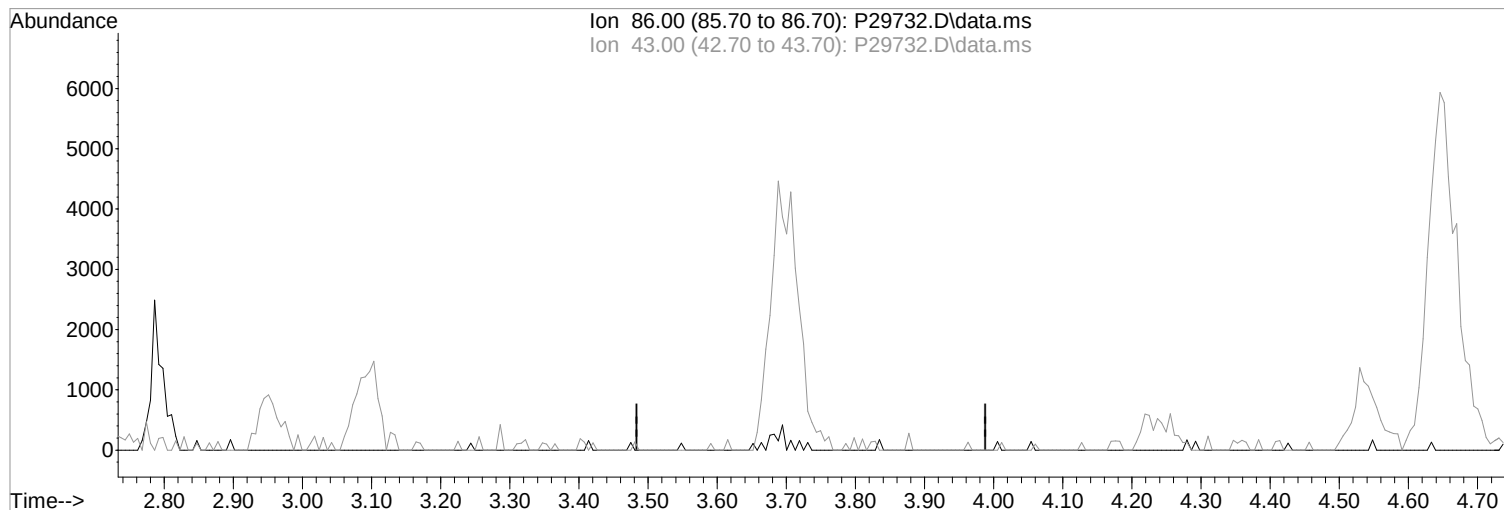
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(29) Vinyl Acetate

Manual Integration:

3.682min (-3.682) 0.00 ppb

Before

response 0

Ion Exp% Act%

09/12/19

86.00 100 0.00

43.00 1567.90 0.00#

0.00 0.00 0.00

0.00 0.00 0.00

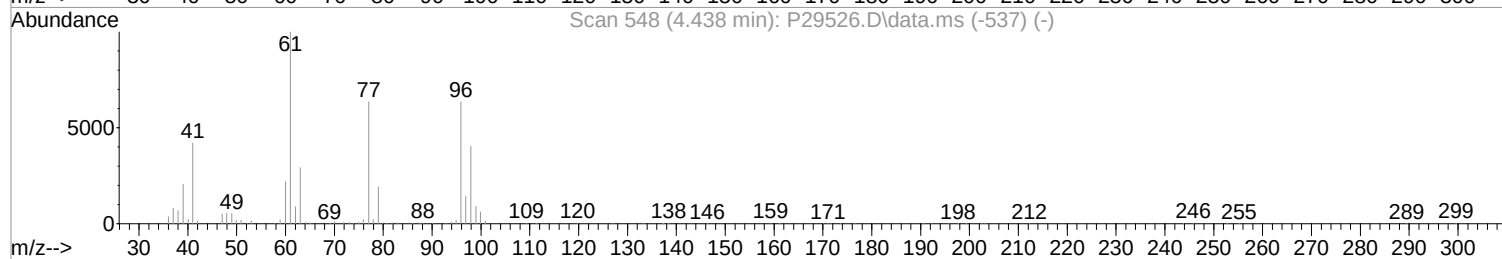
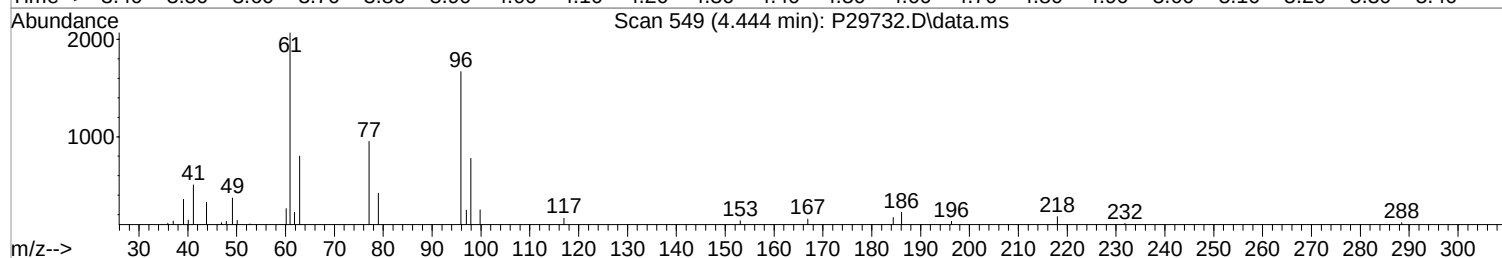
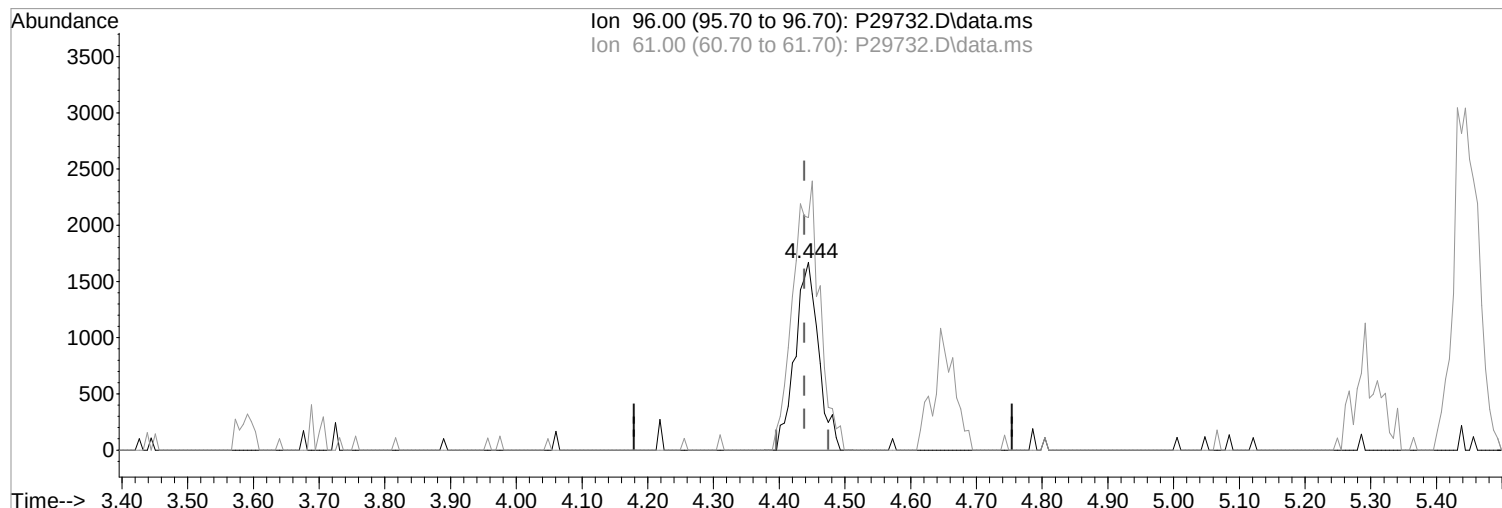
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

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

4.444min (+0.006) 1.00 ppb m

response 4145

Ion	Exp%	Act%
96.00	100	100
61.00	157.30	123.91#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

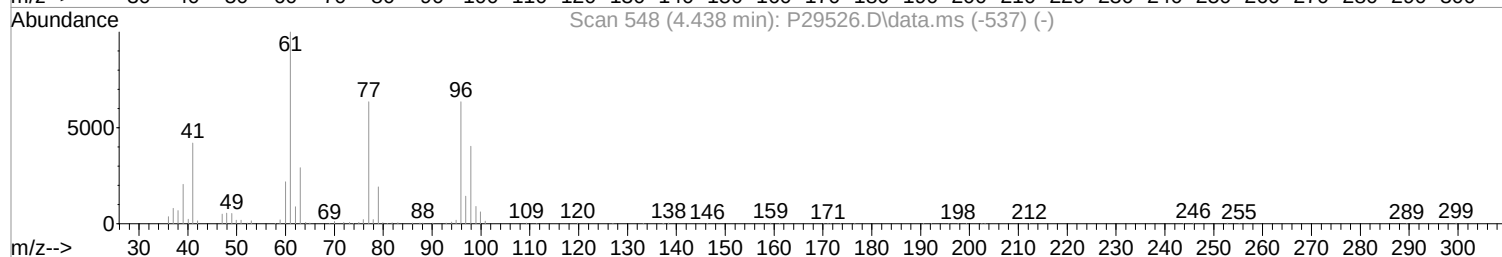
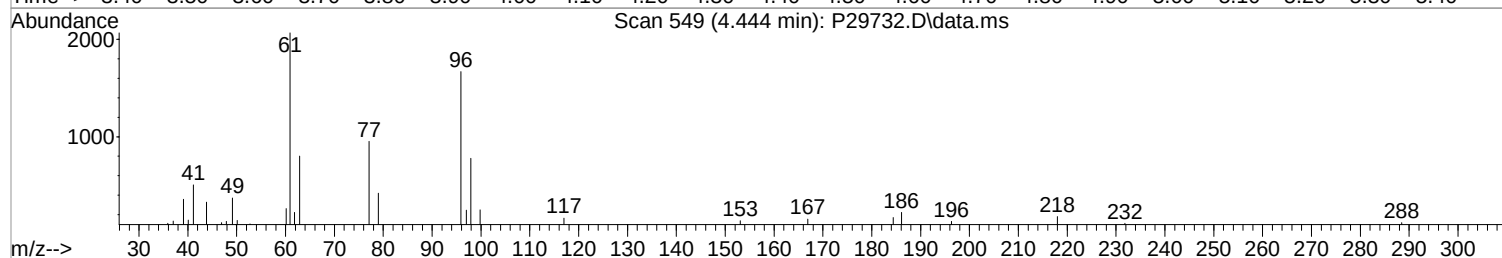
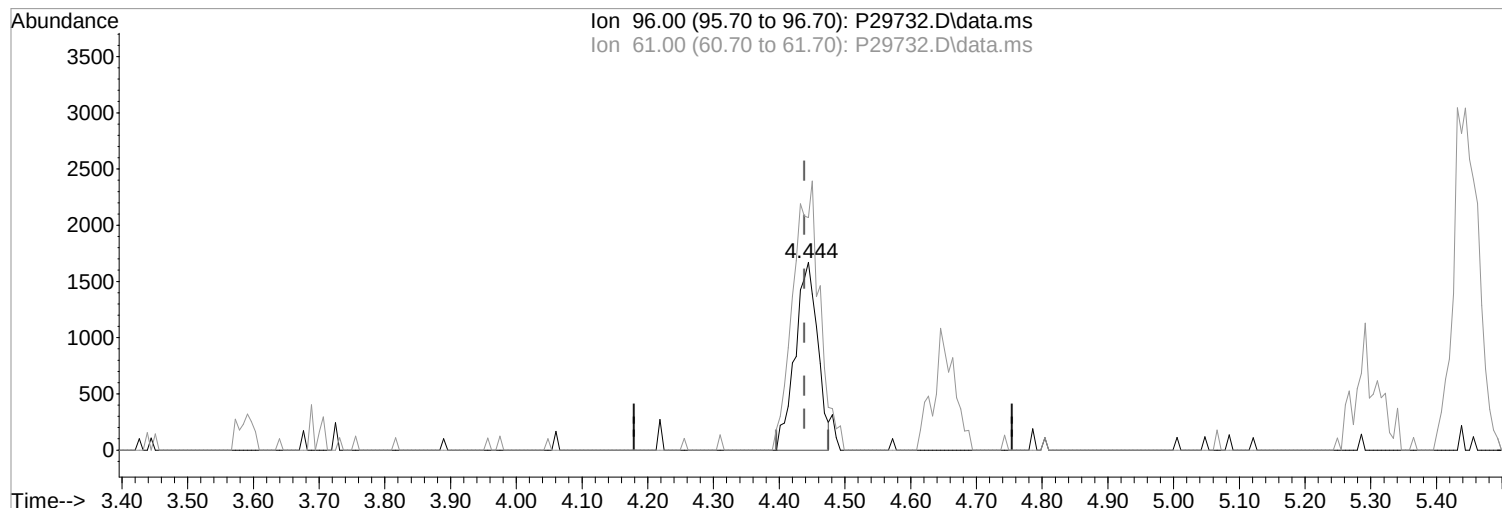
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

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

Manual Integration:

4.444min (+0.006) 0.97 ppb

Before

response 3989

Ion	Exp%	Act%
96.00	100	100
61.00	157.30	123.91#
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

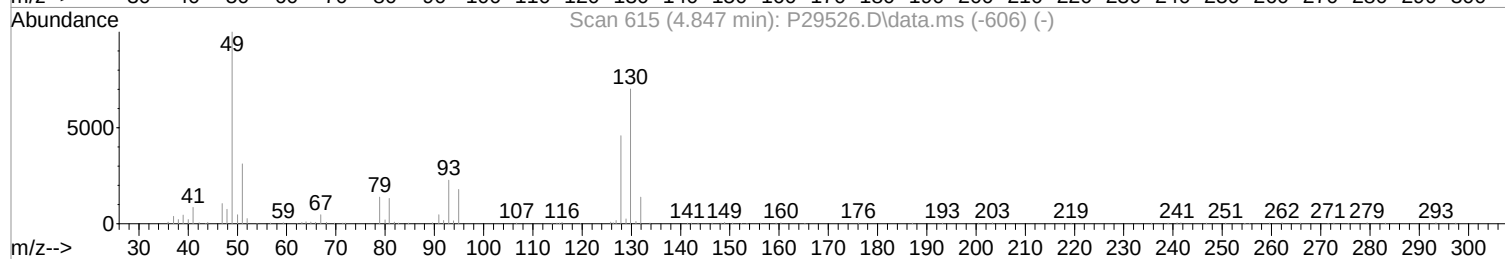
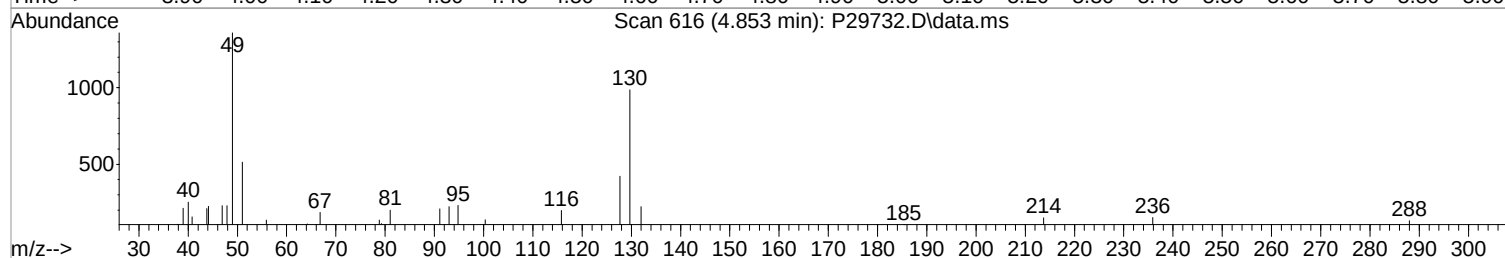
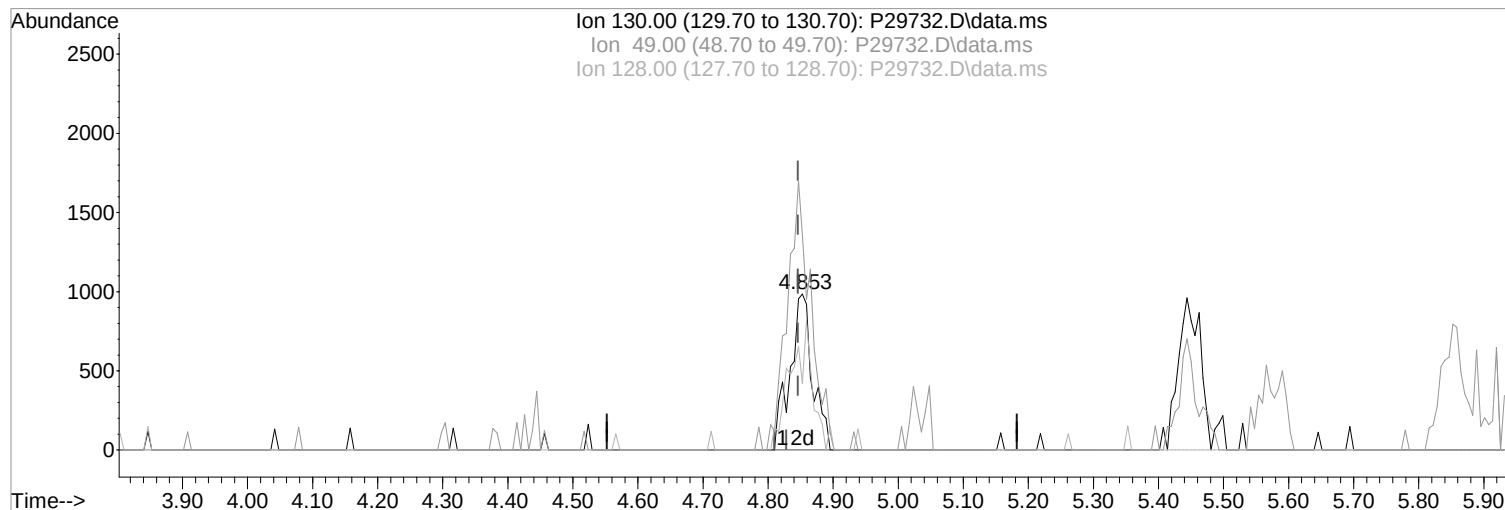
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(37) Bromochloromethane

4.853min (+0.006) 0.97 ppb m

response 2384

Ion	Exp%	Act%
130.00	100	100
49.00	158.10	137.83#
128.00	71.40	42.70#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

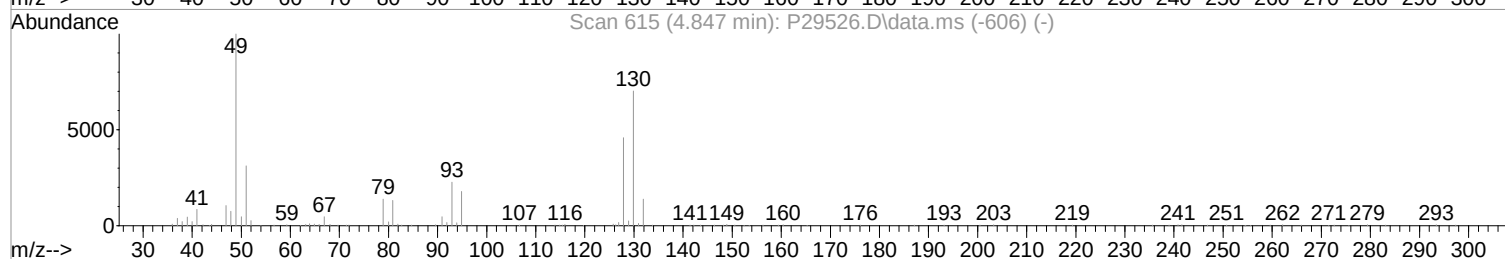
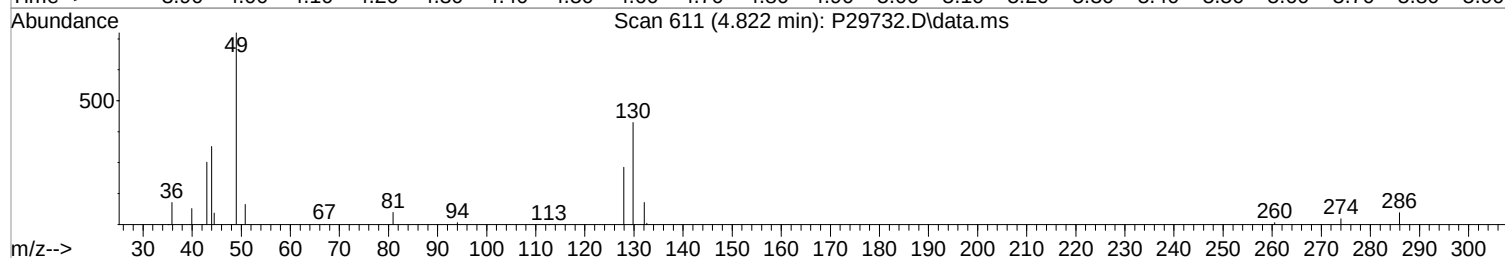
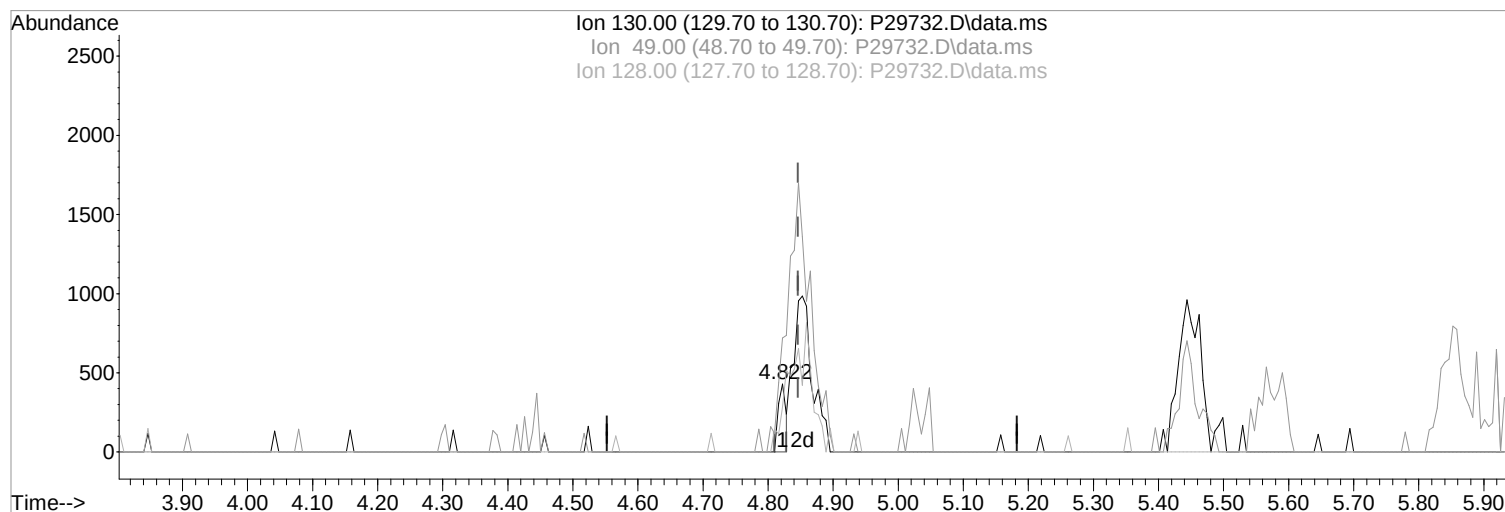
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(37) Bromochloromethane

Manual Integration:

4.822min (-0.024) 0.15 ppb

Before

response 357

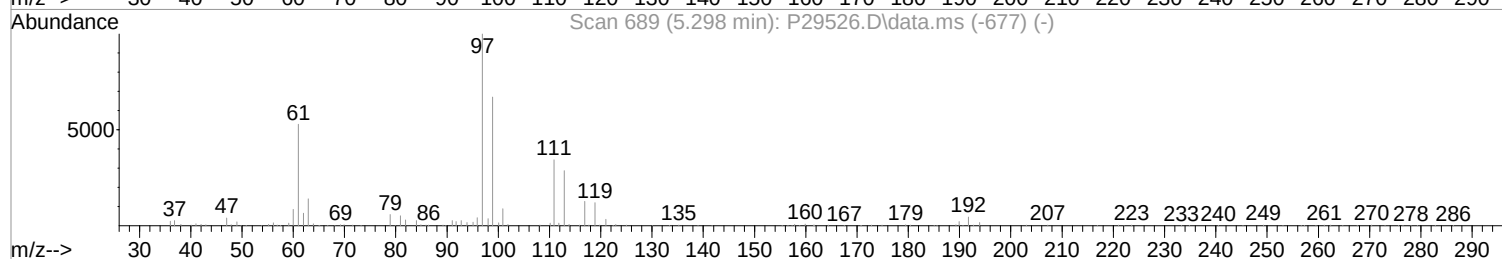
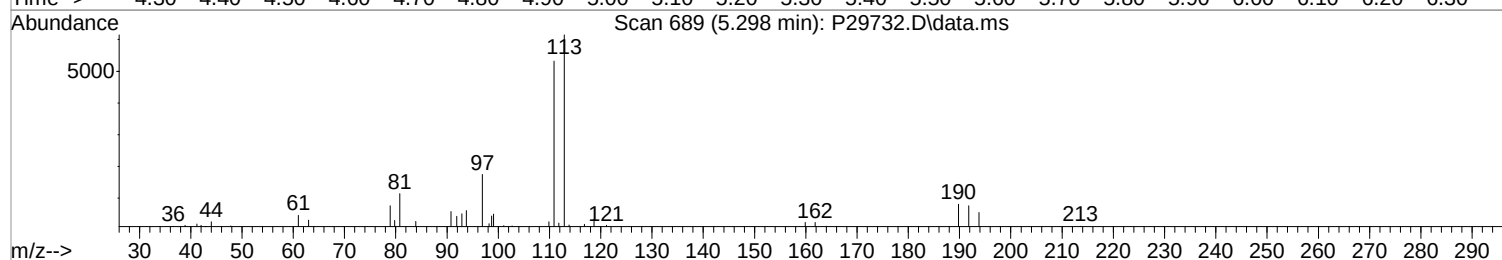
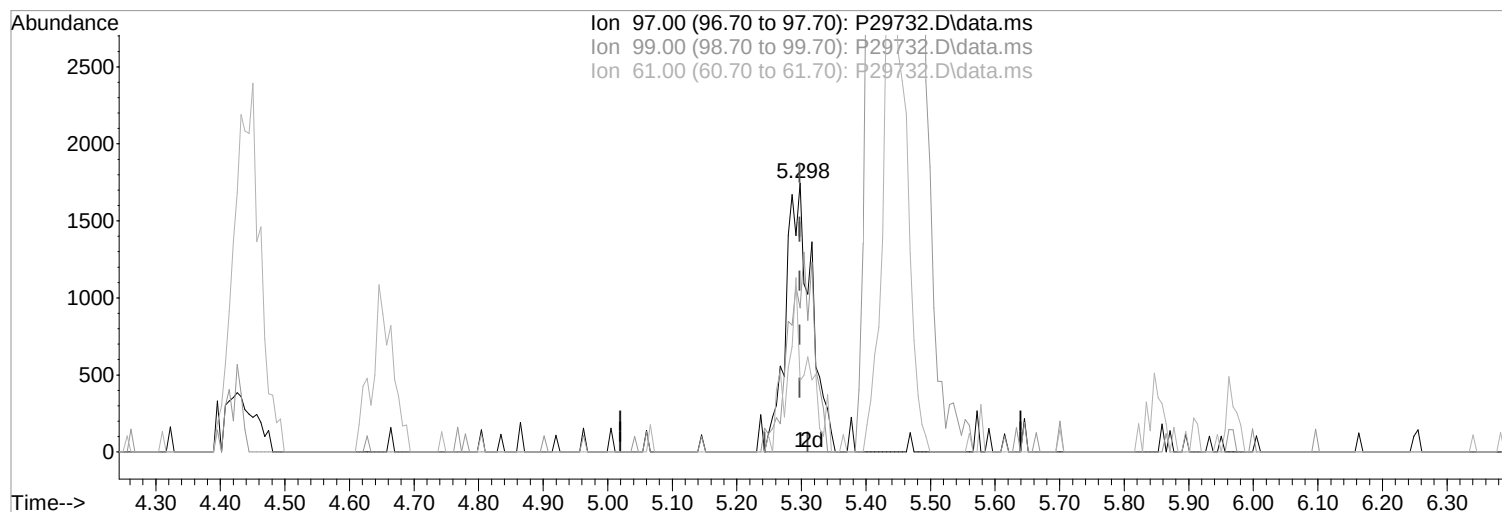
Ion	Exp%	Act%
130.00	100	100
49.00	158.10	167.44
128.00	71.40	66.28
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

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

Manual Integration:

5.298min (+0.000) 0.92 ppb m

After

response 4828

Split Peak

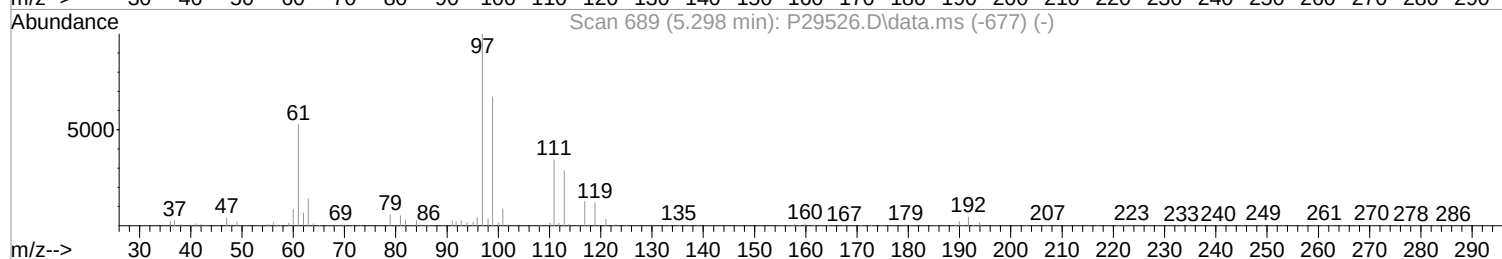
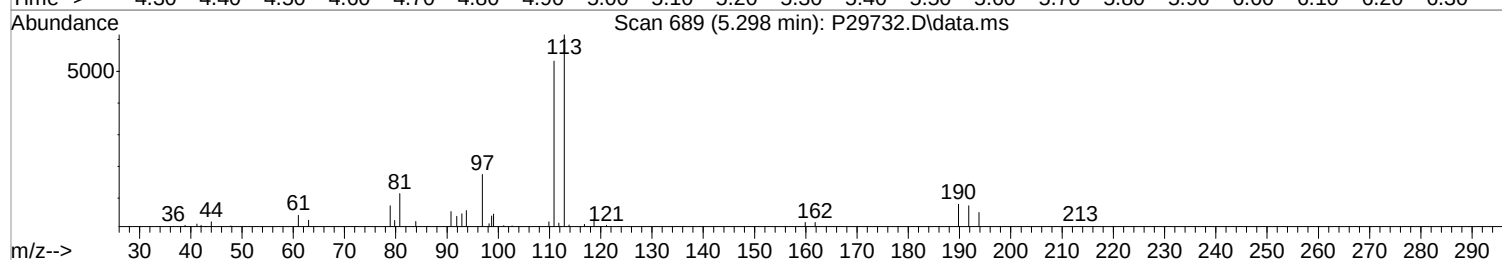
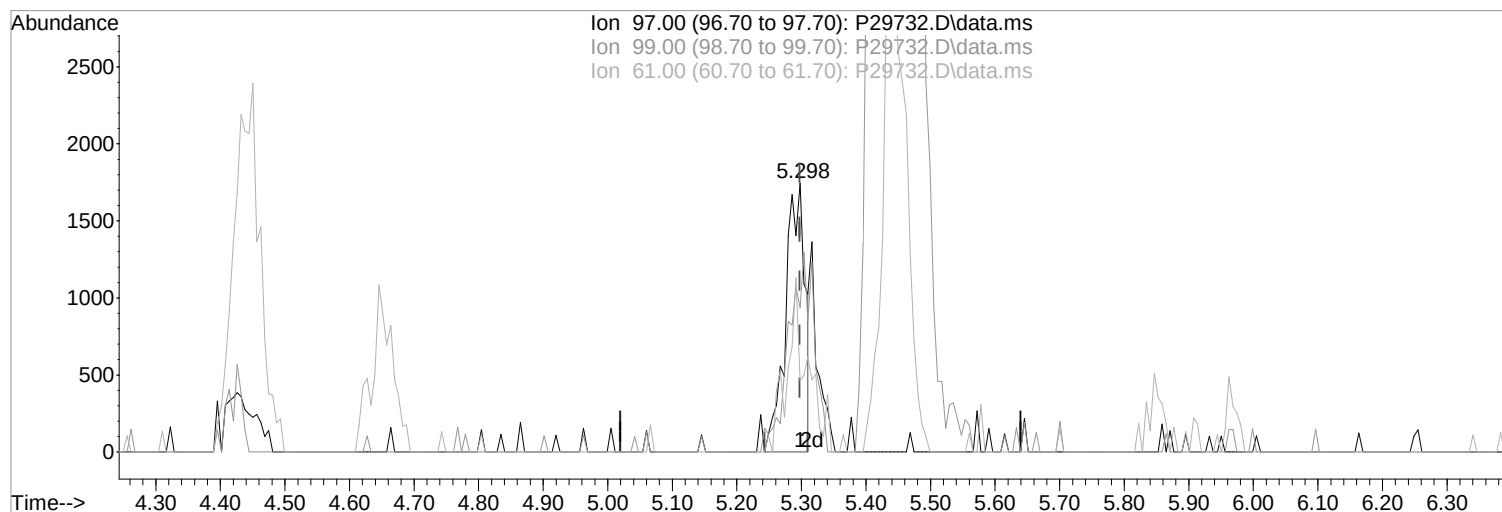
Ion	Exp%	Act%
97.00	100	100
99.00	62.90	28.47#
61.00	44.60	26.58
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

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

Manual Integration:

5.298min (+0.000) 0.70 ppb

Before

response 3672

Ion	Exp%	Act%
97.00	100	100
99.00	62.90	53.55
61.00	44.60	26.58
0.00	0.00	0.00

09/12/19

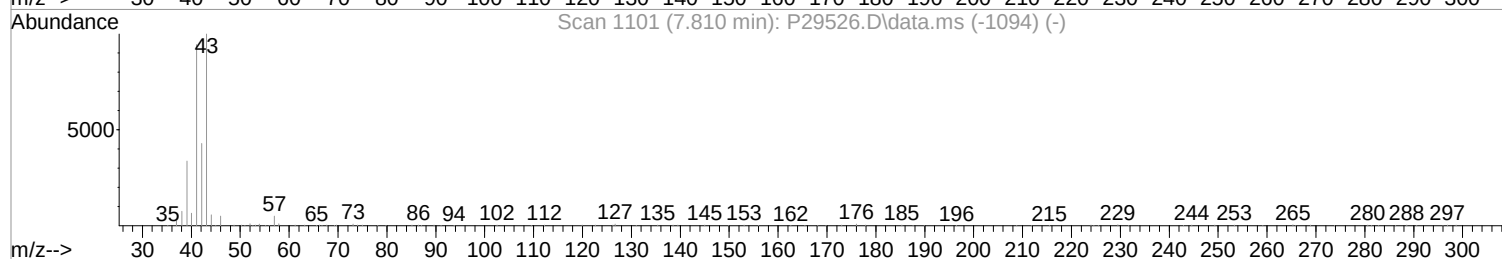
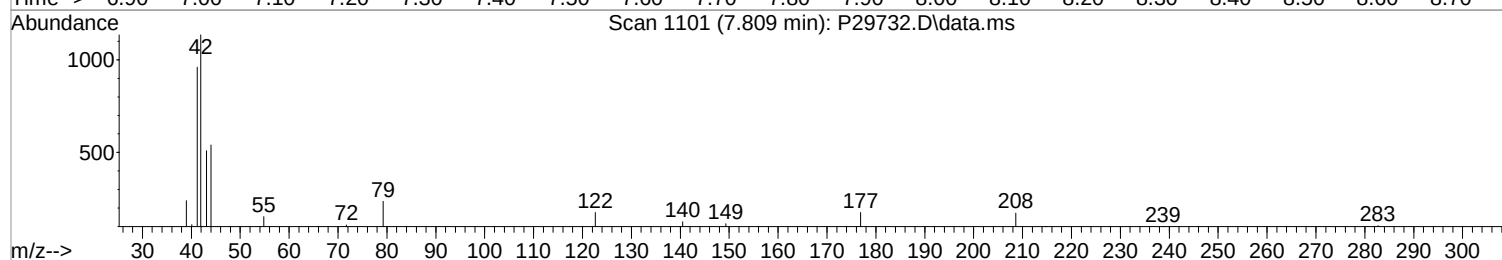
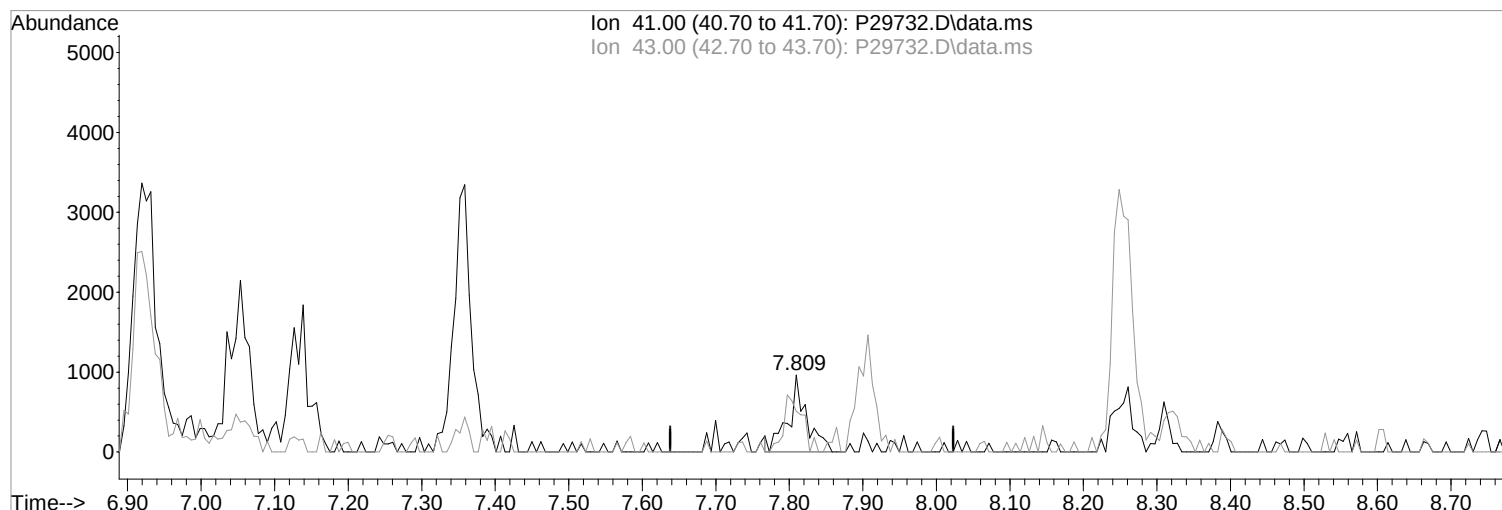
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(61) 2-Nitropropane

Manual Integration:

7.809min (+0.000) 2.36 ppb m

After

response 1664

Peak not found.

Ion	Exp%	Act%
41.00	100	100
43.00	105.70	52.97#
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

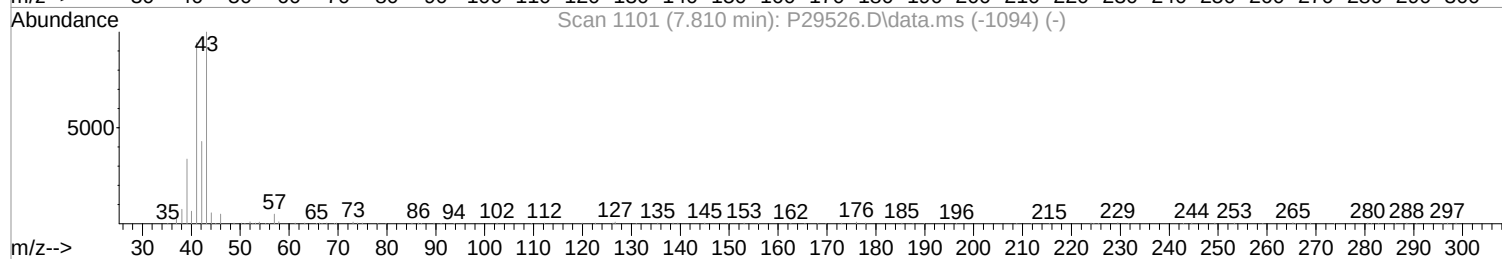
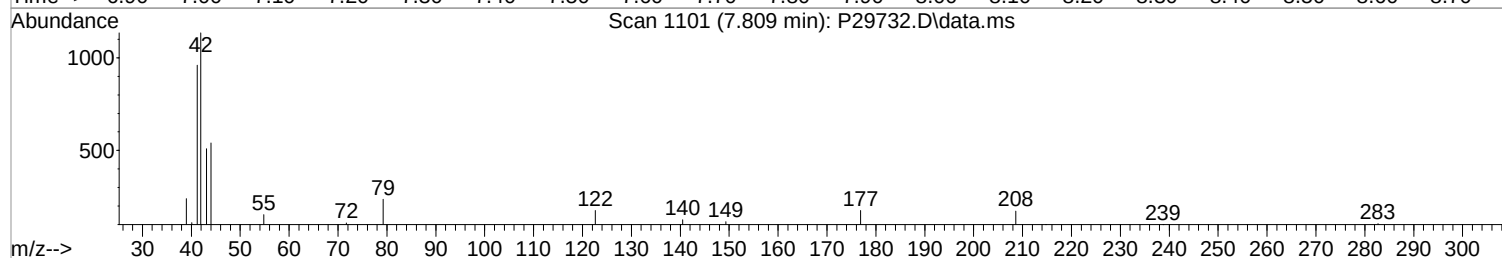
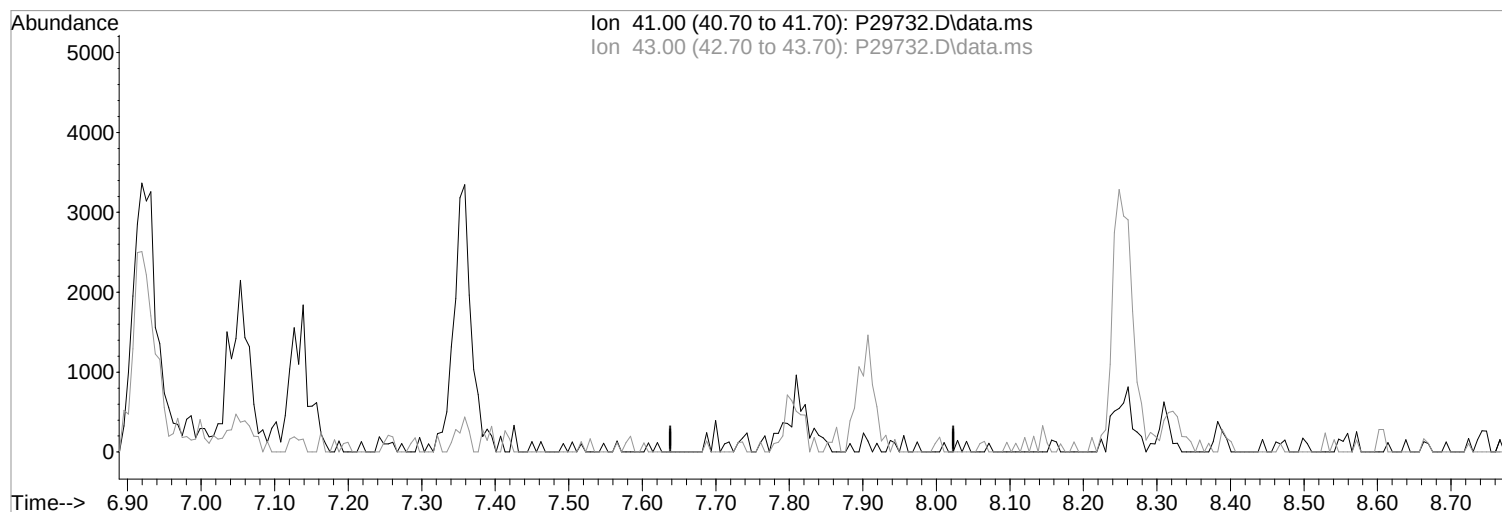
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(61) 2-Nitropropane

Manual Integration:

7.809min (-7.809) 0.00 ppb

Before

response 0

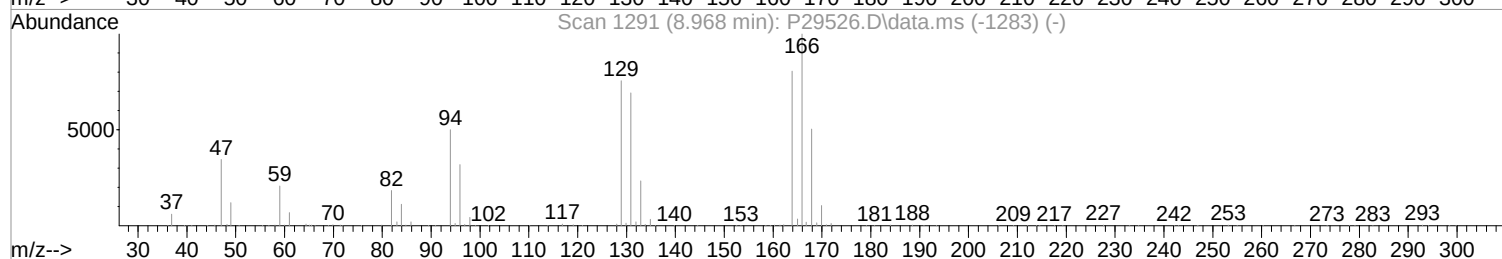
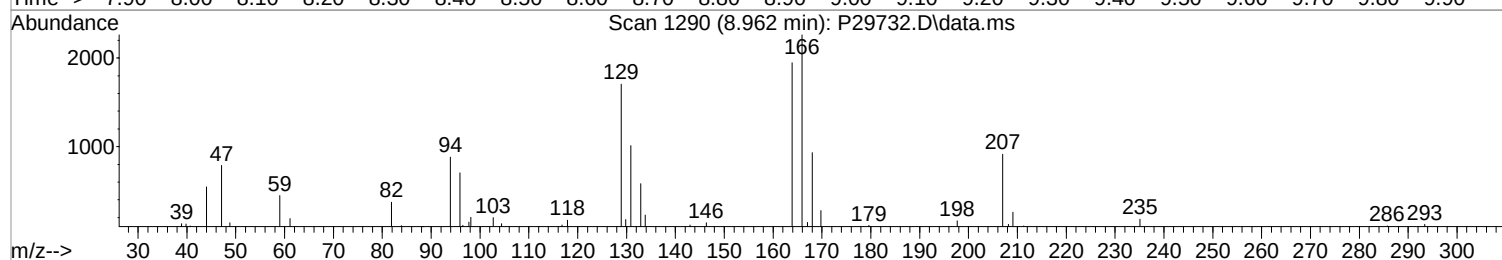
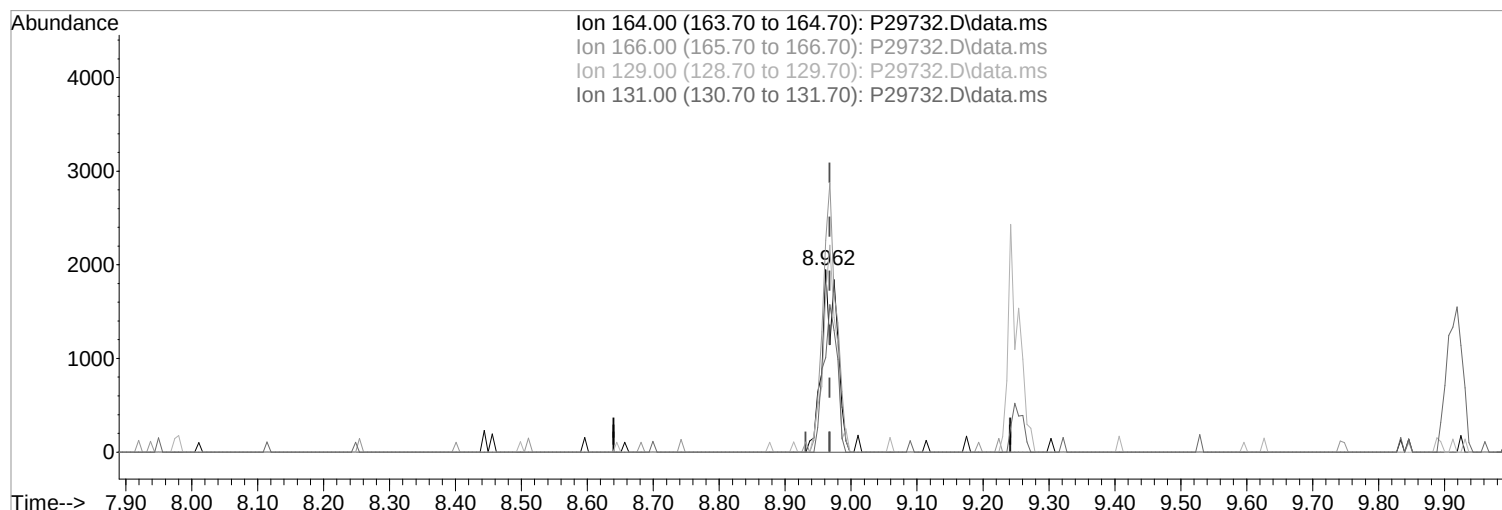
Ion	Exp%	Act%
41.00	100	0.00
43.00	105.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(72) Tetrachloroethene (P)

8.962min (-0.006) 1.08 ppb m

response 3113

Ion	Exp%	Act%
164.00	100	100
166.00	124.80	116.24
129.00	90.60	87.67
131.00	90.10	51.95#

Manual Integration:

After

Split Peak

09/12/19

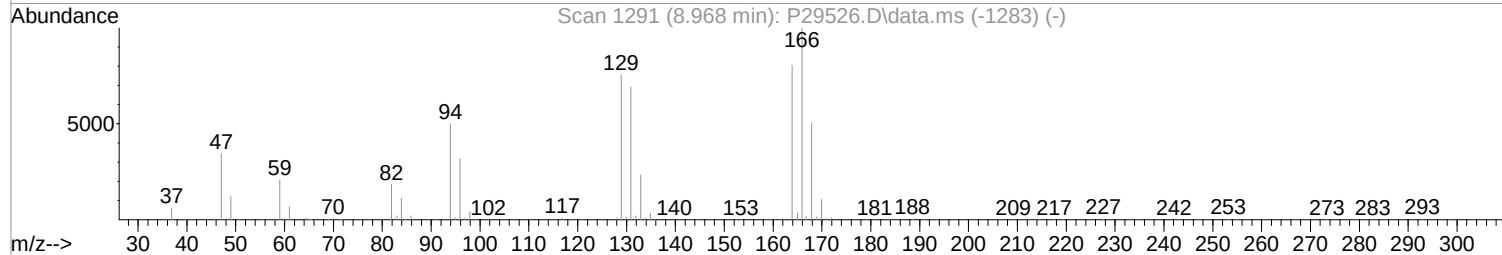
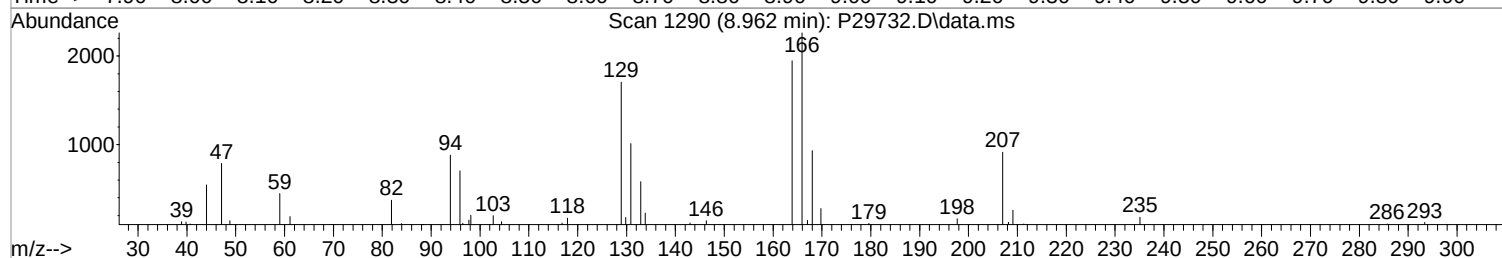
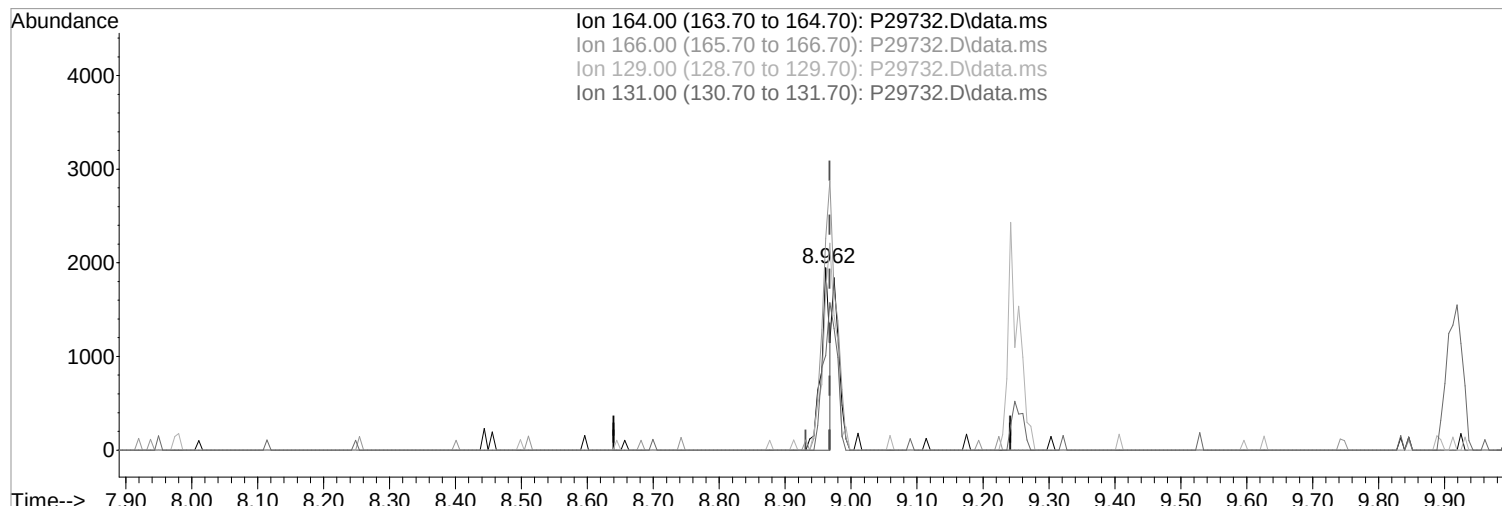
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(72) Tetrachloroethene (P)

Manual Integration:

8.962min (-0.006) 0.62 ppb

Before

response 1772

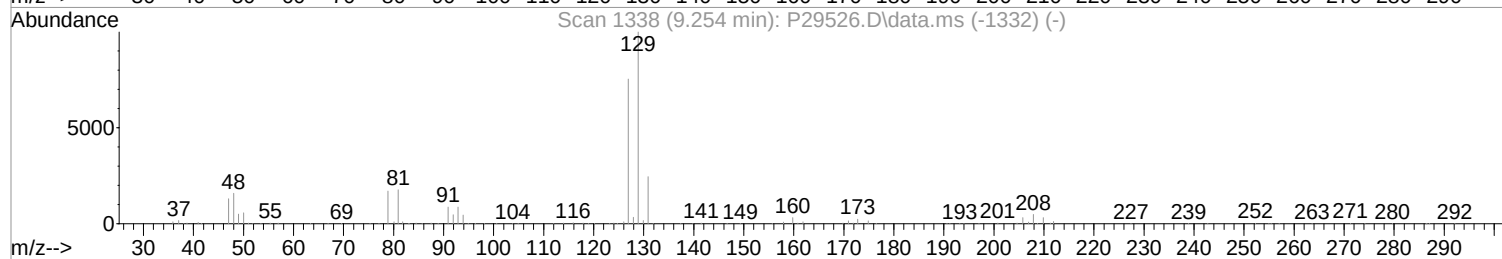
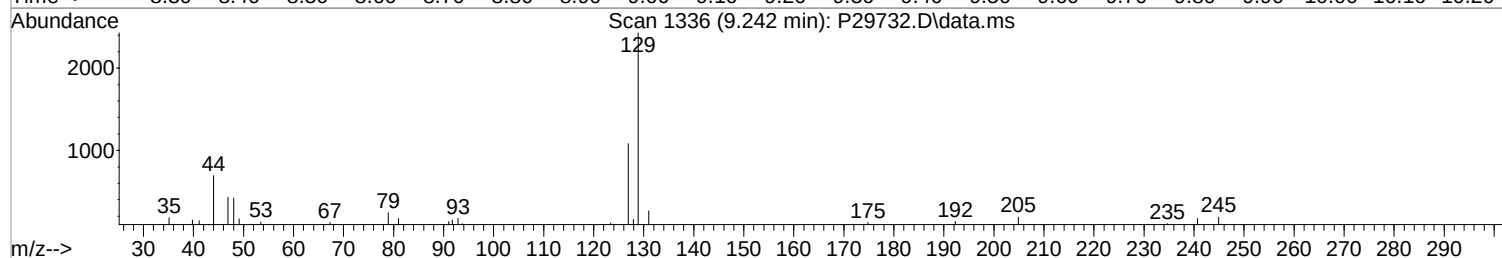
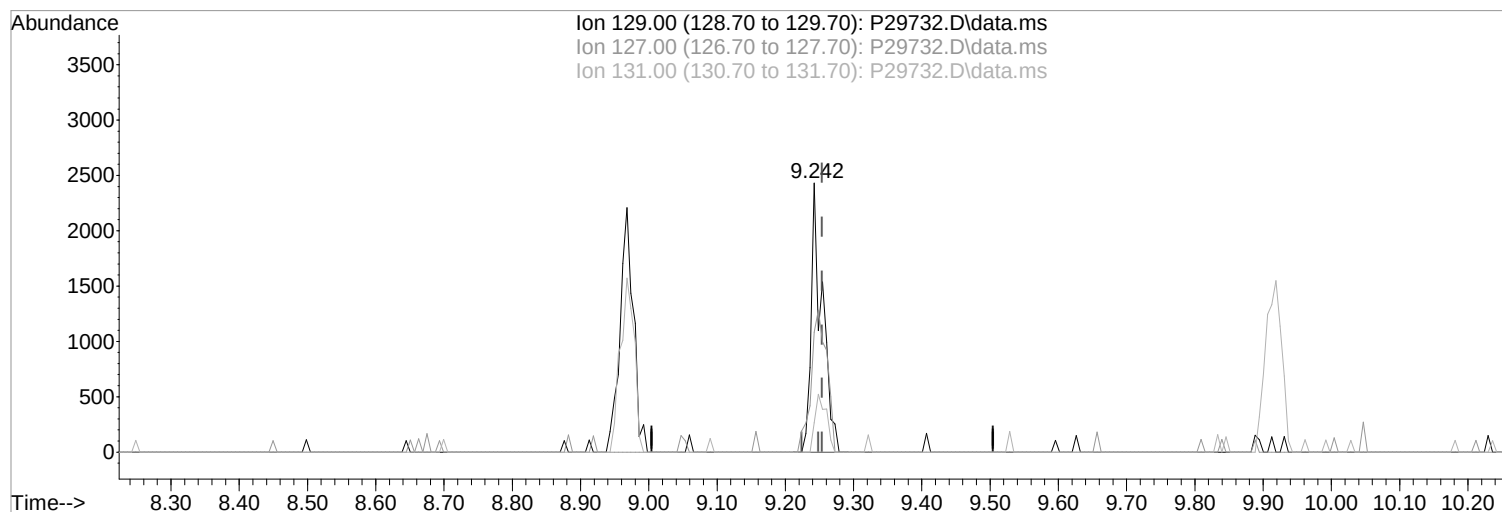
Ion	Exp%	Act%
164.00	100	100
166.00	124.80	116.24
129.00	90.60	87.67
131.00	90.10	51.95#

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(75) Dibromochloromethane (P)

9.242min (-0.012) 0.93 ppb m

response 2756

Ion	Exp%	Act%

129.00	100	100

127.00	74.60	44.51#

131.00	23.20	10.90

0.00	0.00	0.00

Manual Integration:

After

Split Peak

09/12/19

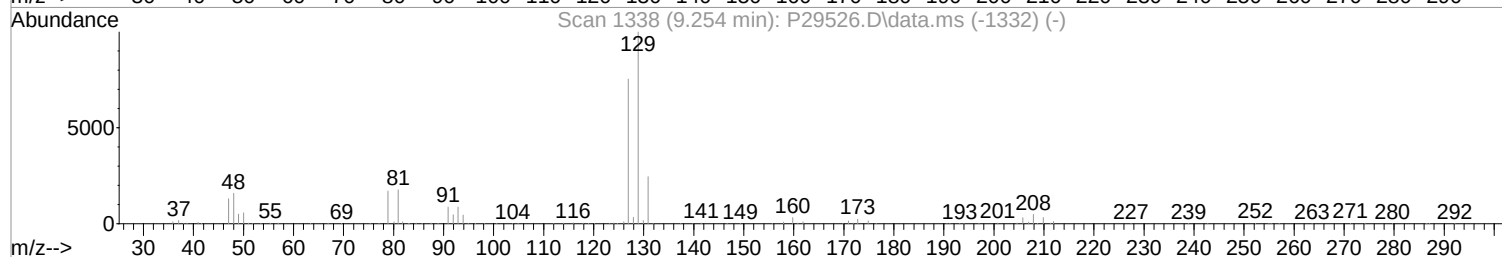
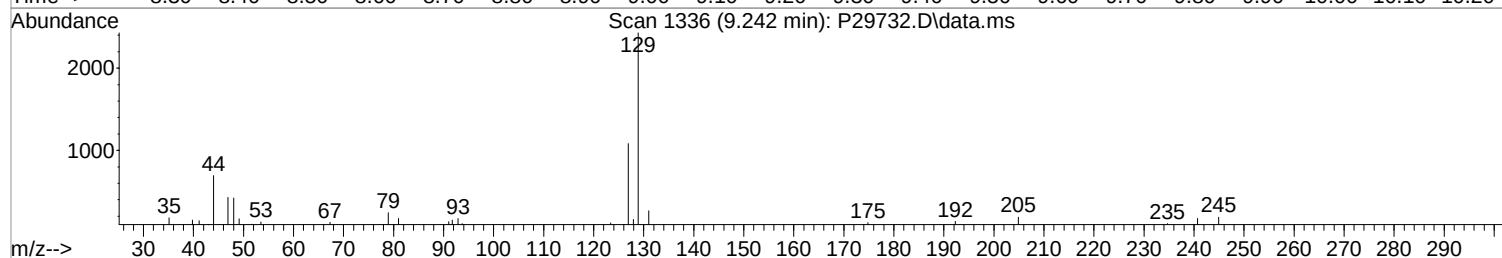
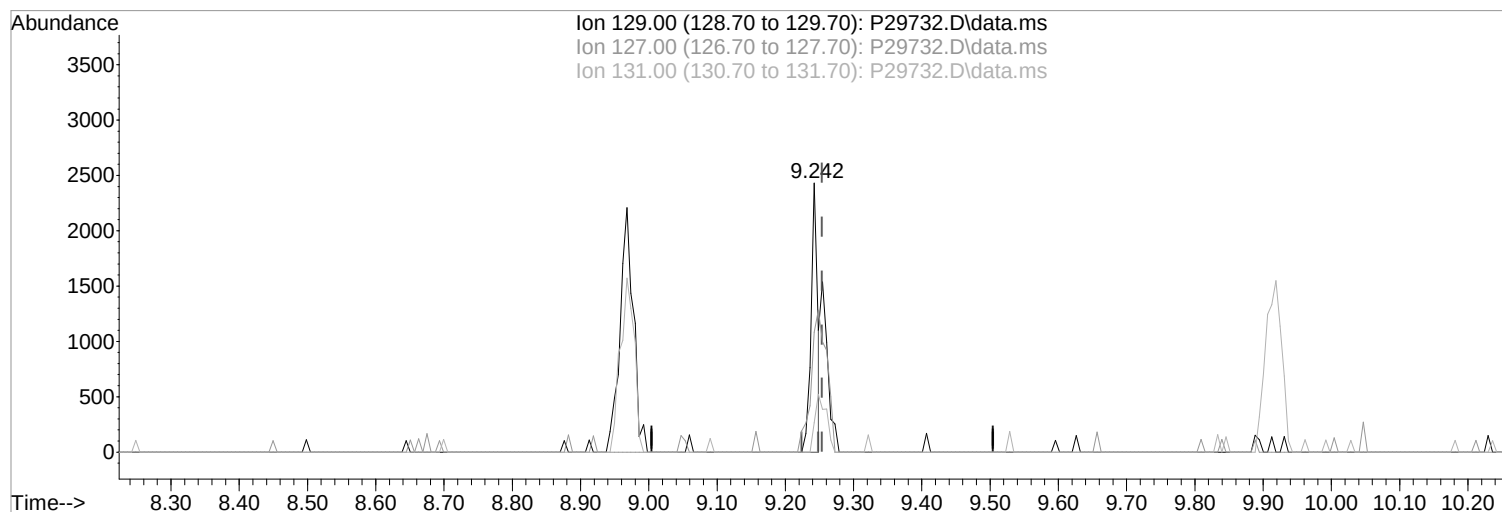
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:24 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29732.D\data.ms

(75) Dibromochloromethane (P)

Manual Integration:

9.242min (-0.012) 0.55 ppb

Before

response 1629

Ion Exp% Act%

09/12/19

129.00 100 100

127.00 74.60 44.51#

131.00 23.20 10.90

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29732.D
 Acq On : 11 Sep 2019 3:55 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:32:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.444	168	339330	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	558674	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	476949	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	247909	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	31545	10.65	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.30%#
48) surr1,1,2-dichloroetha...	5.853	65	46511	11.35	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.70%#
65) SURR3,Toluene-d8	8.315	98	155659	11.17	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	22.34%#
70) SURR2,BFB	10.870	95	60957	11.24	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.48%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.189	85	3941	0.94	ppb	79
3) Chloromethane	1.317	50	6129	0.95	ppb	100
4) Vinyl Chloride	1.396	62	5503	0.91	ppb	87
5) Bromomethane	1.628	94	3847	1.18	ppb	86
6) Chloroethane	1.707	64	3703	1.02	ppb	92
7) Freon 21	1.859	67	6568	0.98	ppb	78
8) Trichlorofluoromethane	1.902	101	4187	0.86	ppb	# 74
9) Diethyl Ether	2.140	59	3787	0.88	ppb	88
10) Freon 123a	2.140	67	4348	0.93	ppb	88
11) Freon 123	2.201	83	5245	1.01	ppb	92
12) Acrolein	2.256	56	5427	4.52	ppb	99
13) 1,1-Dicethene	2.323	96	3176	0.96	ppb	# 65
14) Freon 113	2.323	101	3203	0.99	ppb	# 70
15) Acetone	2.402	43	3689	1.34	ppb	85
16) 2-Propanol	2.542	45	8988	14.31	ppb	97
17) Iodomethane	2.463	142	1999	0.52	ppb	92
18) Carbon Disulfide	2.518	76	9133	0.92	ppb	99
19) Acetonitrile	2.664	40	2011m	4.76	ppb	
20) Allyl Chloride	2.664	76	2281	1.20	ppb	# 89
21) Methyl Acetate	2.707	43	4857	0.89	ppb	87
22) Methylene Chloride	2.792	84	4920	1.14	ppb	# 68
23) TBA	2.951	59	14787m	15.91	ppb	
24) Acrylonitrile	3.073	53	12468	4.43	ppb	92
25) Methyl-t-Butyl Ether	3.097	73	13745	0.98	ppb	86
26) trans-1,2-Dichloroethene	3.073	96	3405	0.94	ppb	# 57
28) 1,1-Dicethane	3.597	63	7200	0.97	ppb	88
29) Vinyl Acetate	3.694	86	602m	0.74	ppb	
30) DIPE	3.701	45	15199	0.94	ppb	# 66
31) 2-Chloro-1,3-Butadiene	3.701	53	5599	0.93	ppb	96
32) ETBE	4.231	59	14361	0.98	ppb	87
33) 2,2-Dichloropropane	4.426	77	5133	0.94	ppb	90
34) cis-1,2-Dichloroethene	4.444	96	4145m	1.00	ppb	
35) 2-Butanone	4.530	43	3173	0.82	ppb	88
36) Propionitrile	4.639	54	6195	5.18	ppb	75
37) Bromochloromethane	4.853	130	2384m	0.97	ppb	
38) Methacrylonitrile	4.889	67	2785	0.98	ppb	98
39) Tetrahydrofuran	4.981	42	6885	2.17	ppb	80
40) Chloroform	5.030	83	7021	1.07	ppb	99
41) 1,1,1-Trichloroethane	5.298	97	4828m	0.92	ppb	

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29732.D
 Acq On : 11 Sep 2019 3:55 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : WATER ICAL
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:32:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	13055	0.97	ppb	87
44) Cyclohexane	5.359	41	4224	0.95	ppb	92
46) Carbontetrachloride	5.560	117	2879	0.74	ppb	# 56
47) 1,1-Dichloropropene	5.578	75	5353	0.99	ppb	93
49) Benzene	5.901	78	17026	1.01	ppb	92
50) 1,2-Dichloroethane	5.968	62	5569	0.98	ppb	94
51) Iso-Butyl Alcohol	5.968	43	6723	14.06	ppb	# 70
52) n-Heptane	6.346	43	5981	0.95	ppb	91
53) 1-Butanol	6.913	56	10513	38.34	ppb	89
54) Trichloroethene	6.834	130	3142	0.84	ppb	# 85
55) Methylcyclohexane	7.054	55	6050	1.01	ppb	84
56) 1,2-Dichloropropane	7.133	63	4315	0.93	ppb	90
57) Dibromomethane	7.273	93	1934	0.84	ppb	# 65
58) 1,4-Dioxane	7.352	88	1651	15.45	ppb	# 52
59) Methyl Methacrylate	7.358	69	3644	0.84	ppb	# 84
60) Bromodichloromethane	7.505	83	3954	0.89	ppb	90
61) 2-Nitropropane	7.809	41	1664m	2.36	ppb	
62) 2-Chloroethylvinyl Ether	7.907	63	2393	0.76	ppb	66
63) cis-1,3-Dichloropropene	8.035	75	6097	0.92	ppb	86
64) 4-Methyl-2-pentanone	8.248	43	6173	0.86	ppb	93
66) Toluene	8.389	91	17439	1.03	ppb	97
67) trans-1,3-Dichloropropene	8.675	75	4882	0.80	ppb	95
68) Ethyl Methacrylate	8.803	69	6974	0.92	ppb	97
69) 1,1,2-Trichloroethane	8.864	97	3960	1.05	ppb	98
72) Tetrachloroethene	8.962	164	3113m	1.08	ppb	
73) 2-Hexanone	9.157	43	4056	0.76	ppb	92
74) 1,3-Dichloropropane	9.029	76	7368	1.03	ppb	88
75) Dibromochloromethane	9.242	129	2756m	0.93	ppb	
76) N-Butyl Acetate	9.297	43	9887	0.98	ppb	97
77) 1,2-Dibromoethane	9.346	107	3573	0.96	ppb	93
78) Chlorobenzene	9.827	112	10733	1.02	ppb	90
79) 3-CBTF	9.840	180	5952	1.10	ppb	92
80) 4-CBTF	9.901	180	5289	1.08	ppb	93
81) 1,1,1,2-Tetrachloroethane	9.919	131	2590	0.83	ppb	88
82) Ethylbenzene	9.943	106	5328	0.93	ppb	92
83) (m+p)Xylene	10.053	106	13849	2.01	ppb	# 81
84) o-Xylene	10.413	106	7122	1.01	ppb	# 70
85) Styrene	10.425	104	11094	0.95	ppb	96
87) Bromoform	10.589	173	1421	0.82	ppb	94
88) 2-CBTF	10.656	180	5509	1.06	ppb	88
89) Isopropylbenzene	10.742	105	17014	1.01	ppb	97
90) Cyclohexanone	10.833	55	13171	18.22	ppb	94
91) trans-1,4-Dichloro-2-B...	11.065	53	1750	0.94	ppb	# 54
92) 1,1,2,2-Tetrachloroethane	11.022	83	5232	0.93	ppb	98
93) Bromobenzene	10.998	156	4405	1.06	ppb	# 78
94) 1,2,3-Trichloropropane	11.047	110	2104	1.13	ppb	# 48
95) n-Propylbenzene	11.095	91	22742	1.12	ppb	96
96) 2-Chlorotoluene	11.156	91	13609	1.06	ppb	97
97) 3-Chlorotoluene	11.217	91	12818	0.99	ppb	98
98) 4-Chlorotoluene	11.254	91	13956	1.01	ppb	93
99) 1,3,5-Trimethylbenzene	11.248	105	14026	1.00	ppb	86
100) tert-Butylbenzene	11.516	119	12171	0.98	ppb	95
101) 1,2,4-Trimethylbenzene	11.559	105	13735	0.98	ppb	92
102) 3,4-DCBTF	11.626	214	4459	1.04	ppb	# 90
103) sec-Butylbenzene	11.699	105	18561	1.03	ppb	93
104) p-Isopropyltoluene	11.821	119	15115	0.98	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29732.D
Acq On : 11 Sep 2019 3:55 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : WATER ICAL
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:32:22 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration

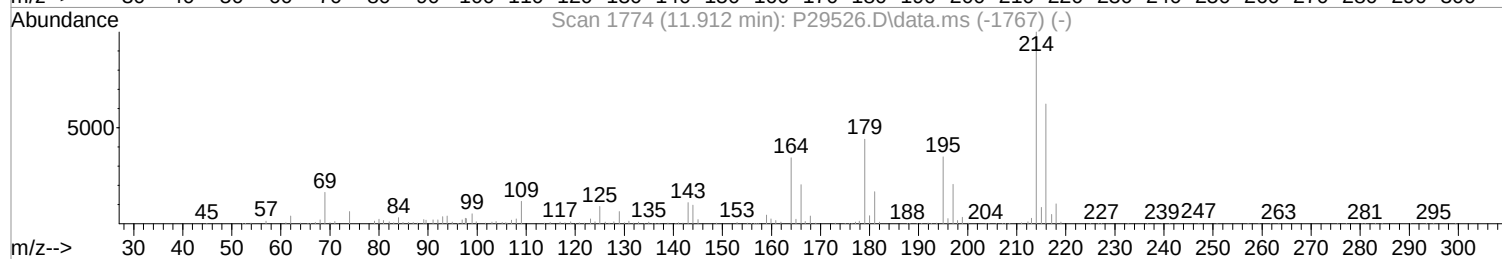
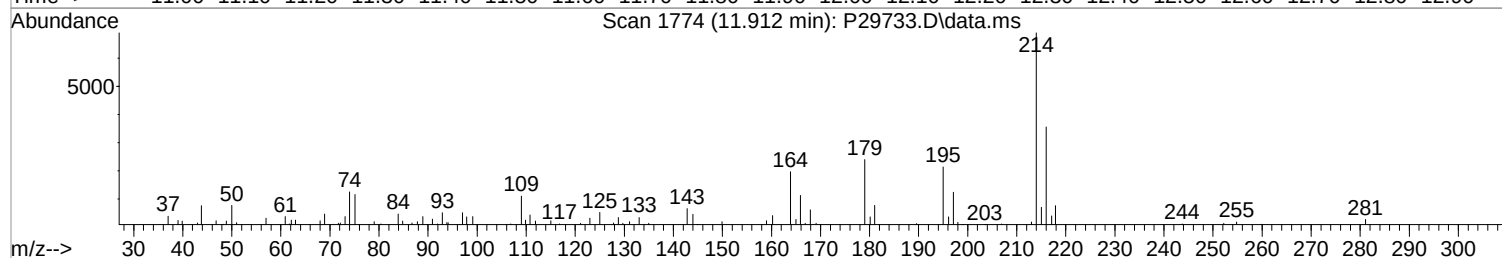
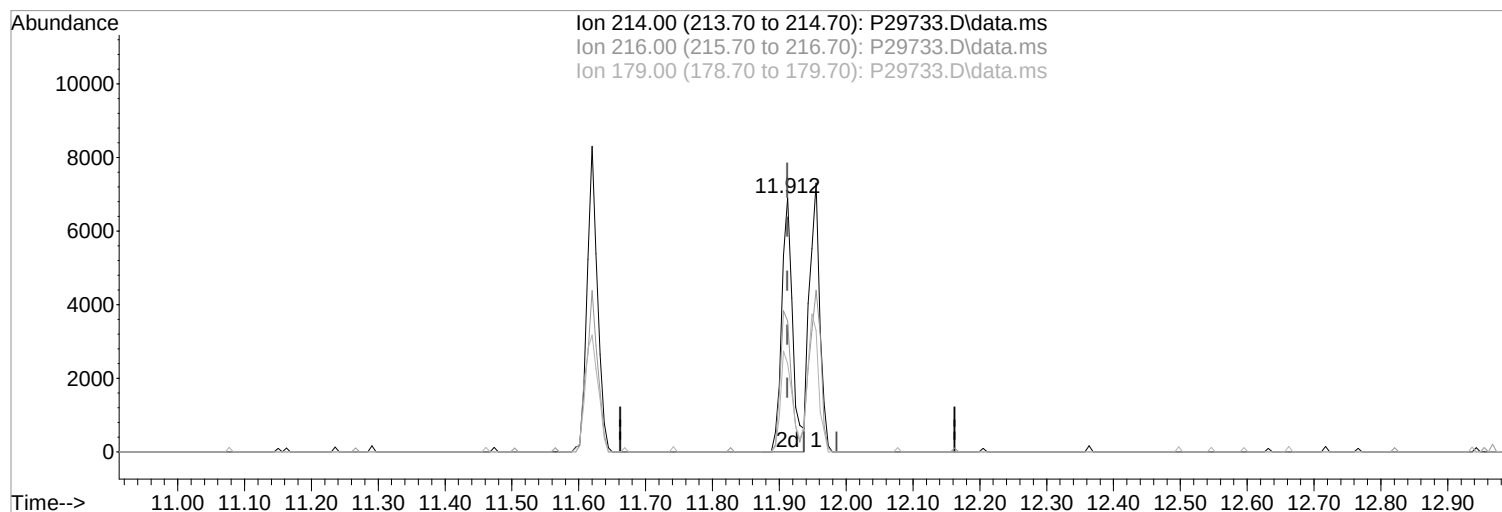
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105)	1,3-Dclbenz	11.790	146	8367	1.01	ppb	96
106)	1,4-Dclbenz	11.857	146	8960	1.05	ppb	87
107)	2,4-DCBTF	11.912	214	4158	1.07	ppb #	82
108)	2,5-DCBTF	11.949	214	4549	1.05	ppb	94
109)	n-Butylbenzene	12.150	91	14570	0.97	ppb	97
110)	1,2-Dclbenz	12.162	146	8042	0.98	ppb	93
111)	1,2-Dibromo-3-chloropr...	12.796	157	1294	0.99	ppb #	58
112)	Trielution Dichlorotol...	12.894	125	24223	3.22	ppb #	80
113)	1,3,5 Trichlorobenzene	12.949	180	6254	1.02	ppb	88
114)	Coelution Dichlorotoluene	13.229	125	18268	2.17	ppb	95
115)	1,2,4-Tcbenzene	13.436	180	6635	1.05	ppb	89
116)	Hexachlorobt	13.564	225	2933	1.16	ppb #	66
117)	Naphthalen	13.632	128	21752	1.09	ppb	90
118)	1,2,3-Tclbenzene	13.820	180	6441	1.03	ppb	92
119)	2,4,5-Trichlorotoluene	14.394	159	5125	1.08	ppb #	86
120)	2,3,6-Trichlorotoluene	14.479	159	5042	1.02	ppb	91

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

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(107) 2,4-DCBTF

11.912min (+0.000) 2.16 ppb m

response 7816

Ion	Exp%	Act%
214.00	100	100
216.00	64.60	51.55#
179.00	44.00	34.80#
0.00	0.00	0.00

Manual Integration:

After

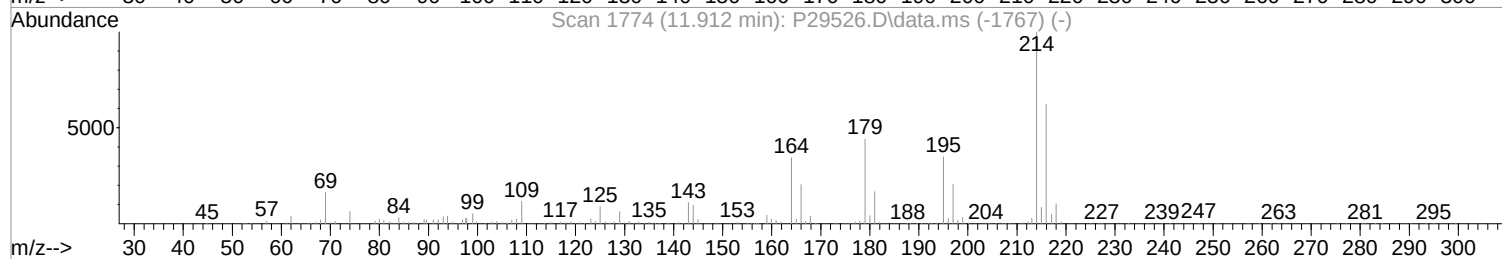
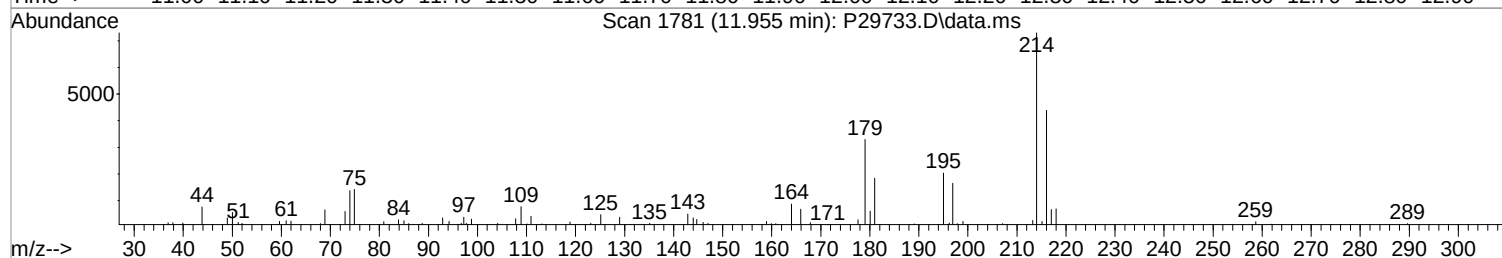
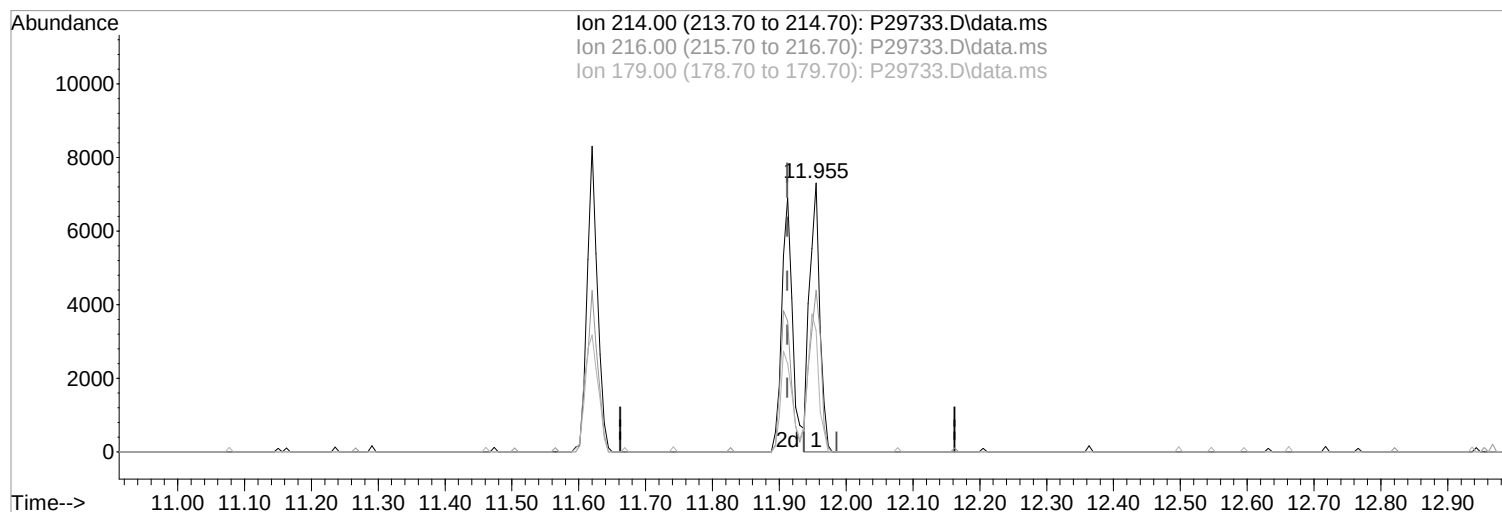
Wrong peak selected.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(107) 2,4-DCBTF

Manual Integration:

11.955min (+0.043) 2.18 ppb

Before

response 7910

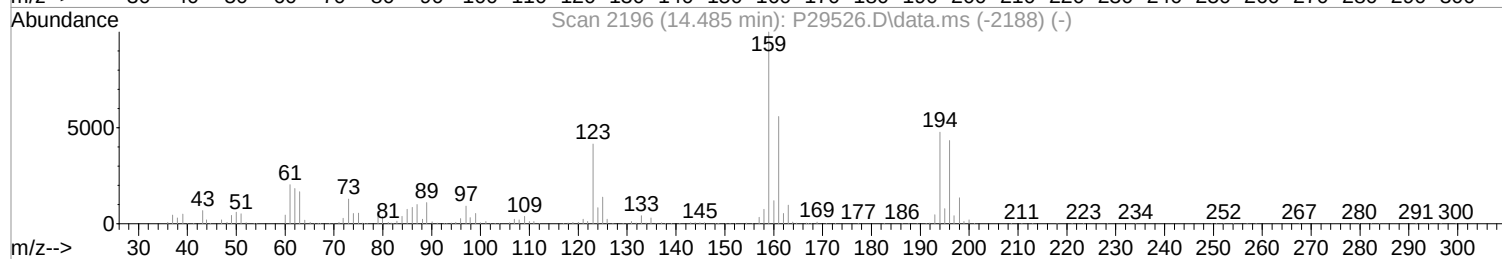
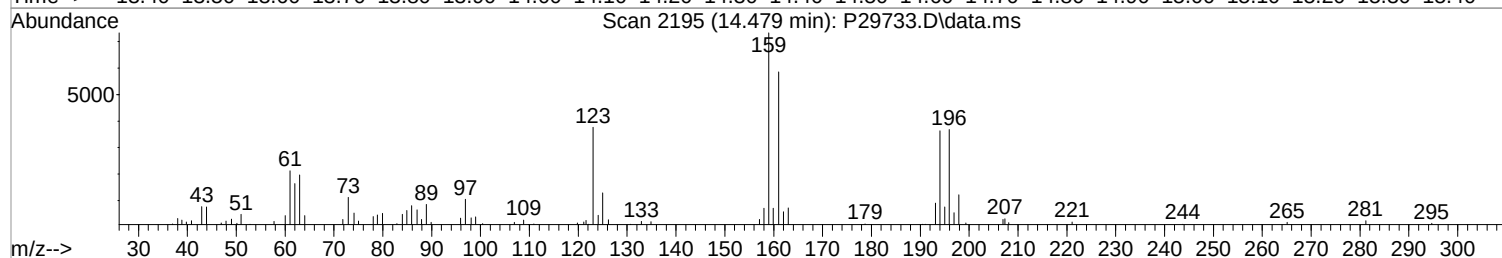
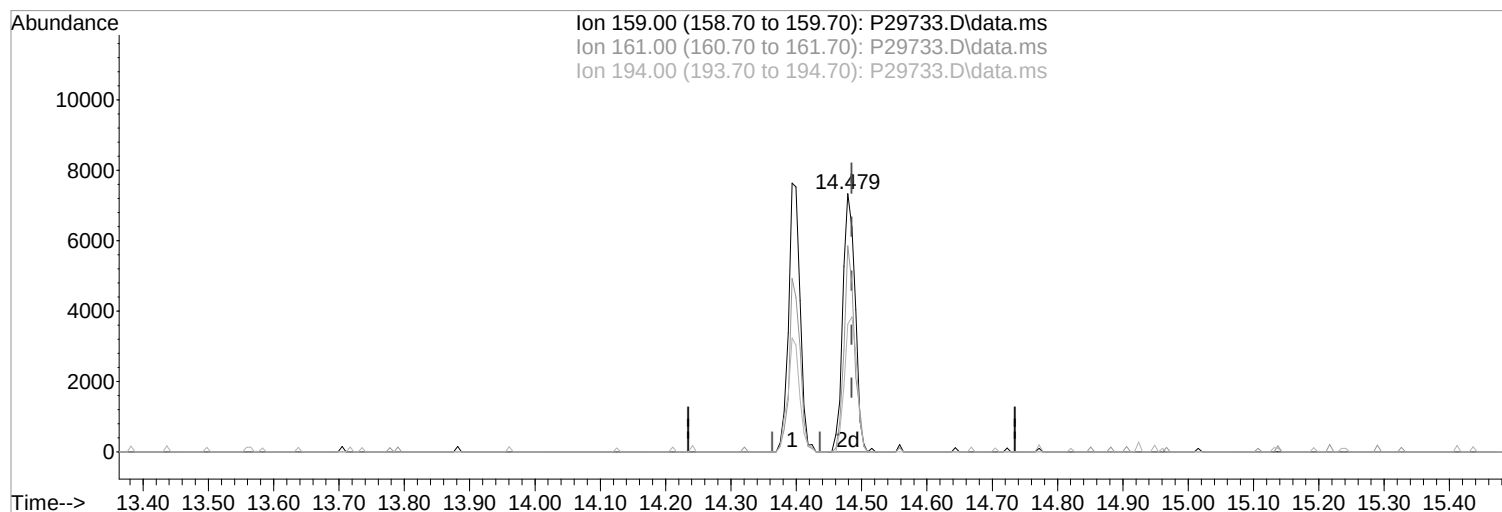
Ion	Exp%	Act%
214.00	100	100
216.00	64.60	60.07
179.00	44.00	45.10
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.479min (-0.006) 2.09 ppb m

response 9583

Ion	Exp%	Act%

159.00	100	100

161.00	59.40	79.85#

194.00	46.10	49.48

0.00	0.00	0.00

Manual Integration:

After

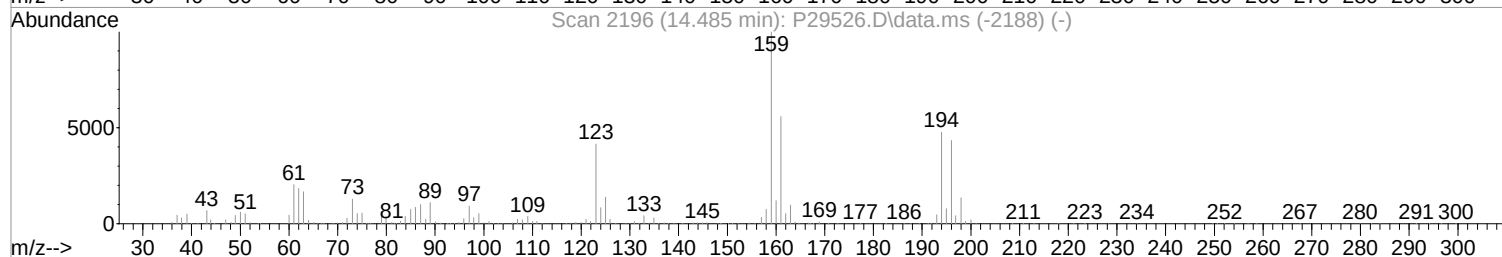
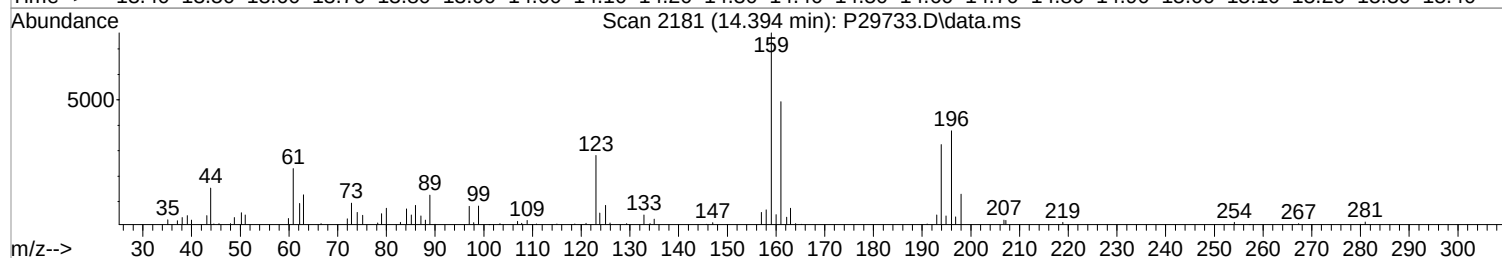
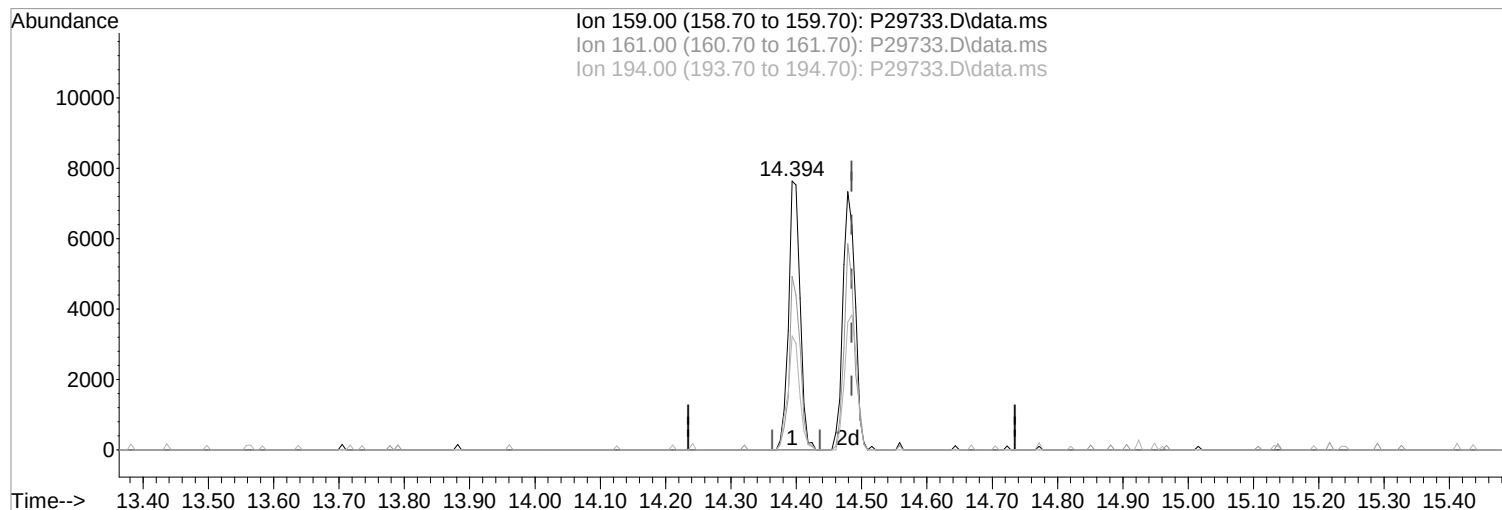
Wrong peak selected.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(120) 2,3,6-Trichlorotoluene

Manual Integration:

14.394min (-0.091) 2.07 ppb

Before

response 9498

Ion	Exp%	Act%

09/12/19

159.00	100	100

161.00	59.40	64.51

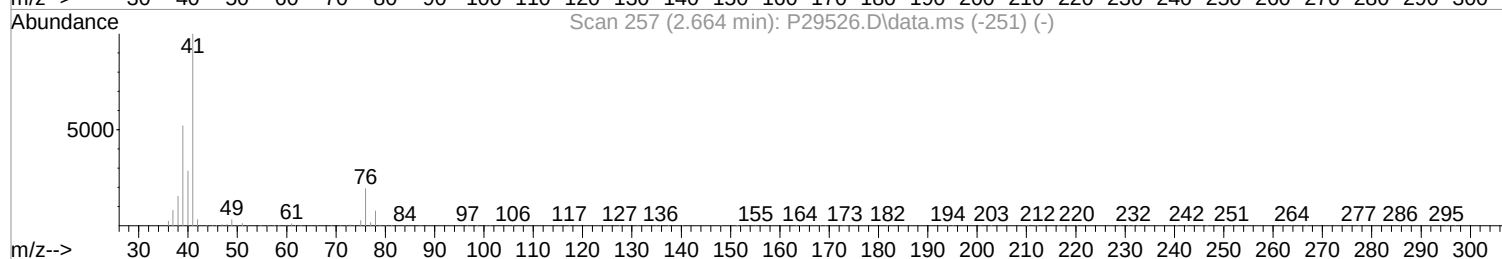
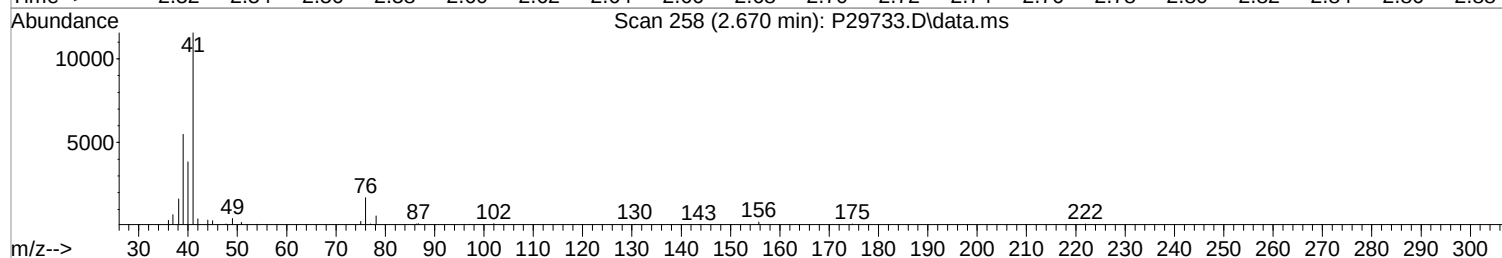
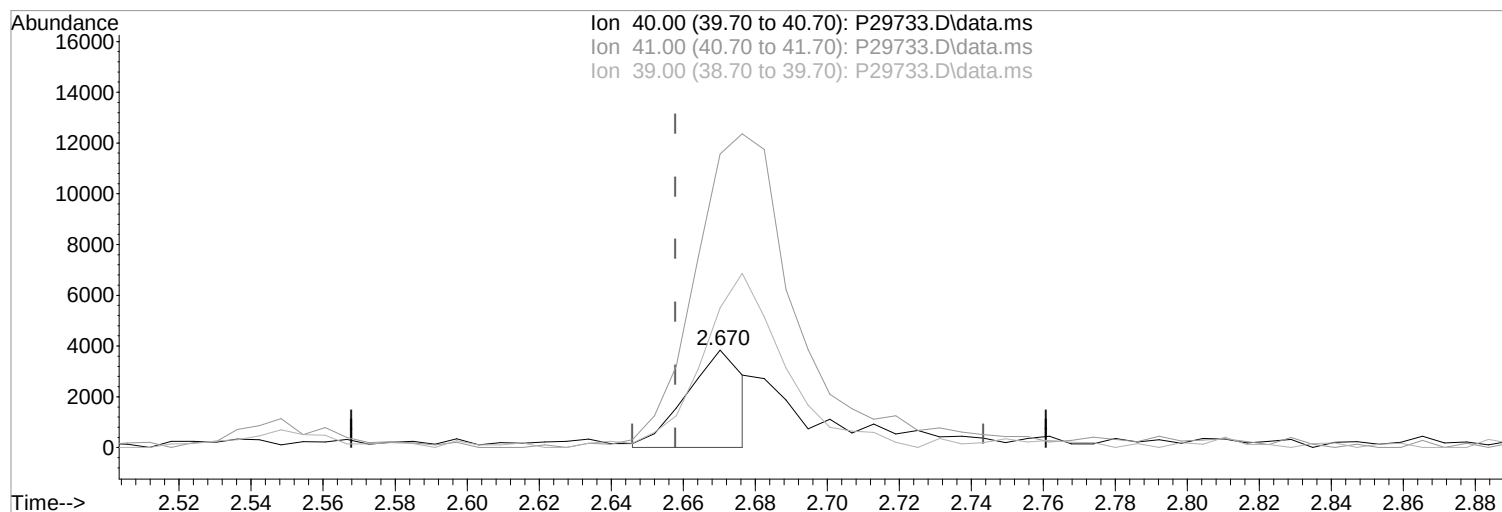
194.00	46.10	42.45

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 10.78 ppb m

response 4219

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	300.81#
39.00	137.60	143.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

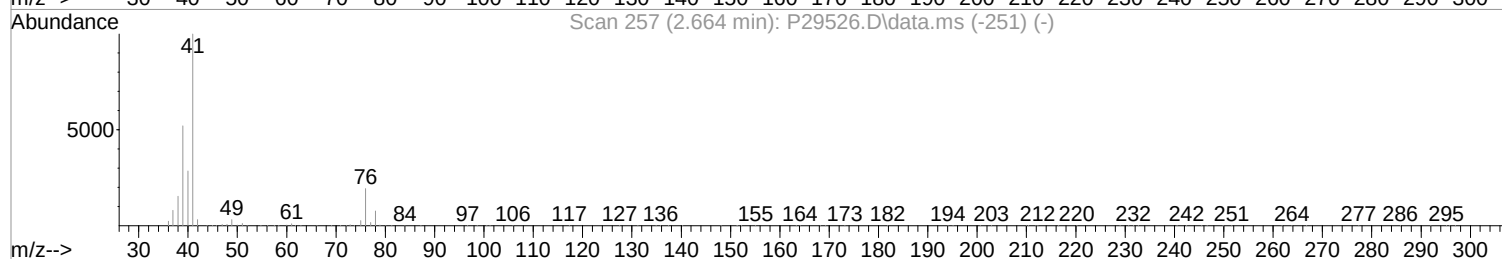
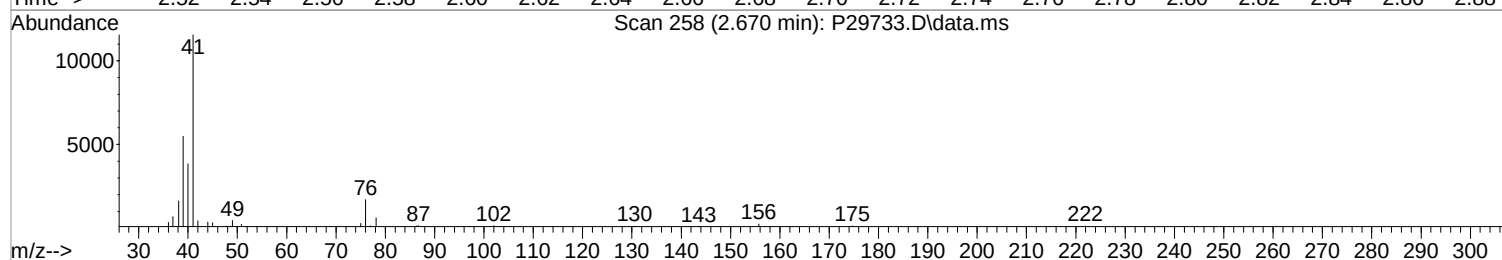
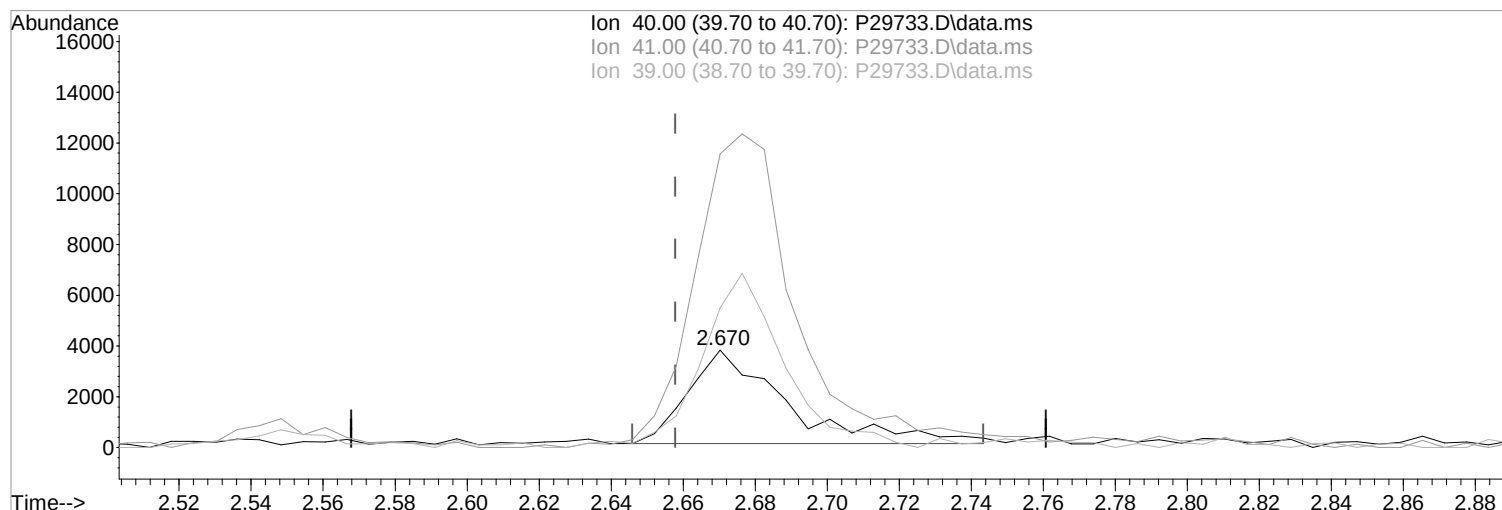
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(19) Acetonitrile

Manual Integration:

2.670min (+0.012) 18.21 ppb

Before

response 7128

Ion Exp% Act%

09/12/19

40.00 100 100

41.00 334.20 300.81#

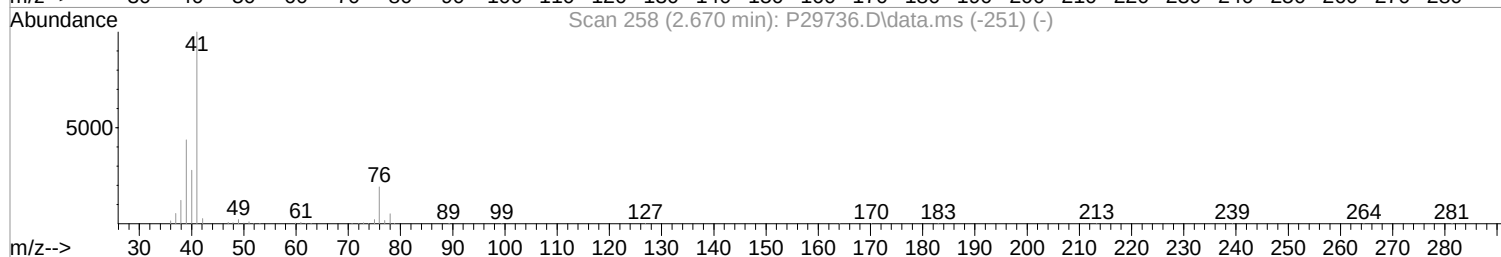
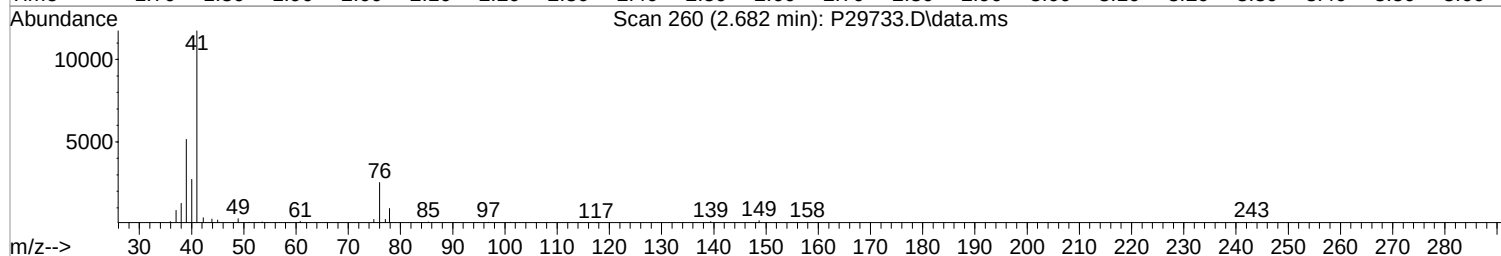
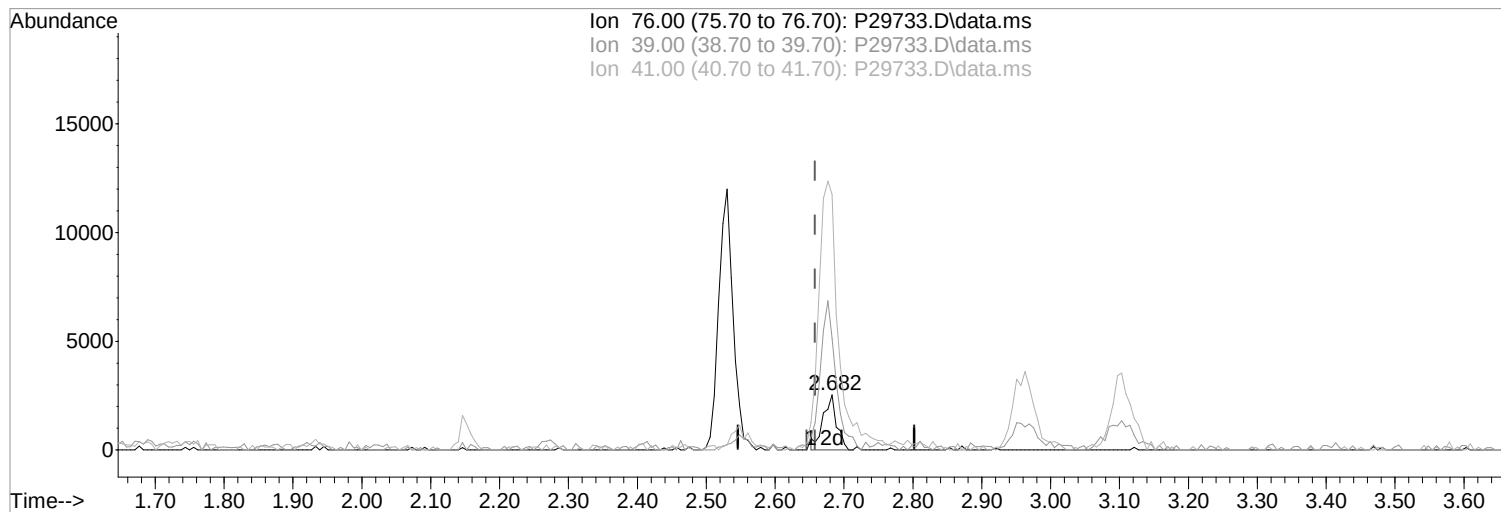
39.00 137.60 143.00

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:35:45 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(20) Allyl Chloride

2.682min (+0.025) 1.94 ppb m

response 3403

Ion	Exp%	Act%

76.00	100	100

39.00	226.70	203.24#

41.00	519.30	464.12#

0.00	0.00	0.00

Manual Integration:

After

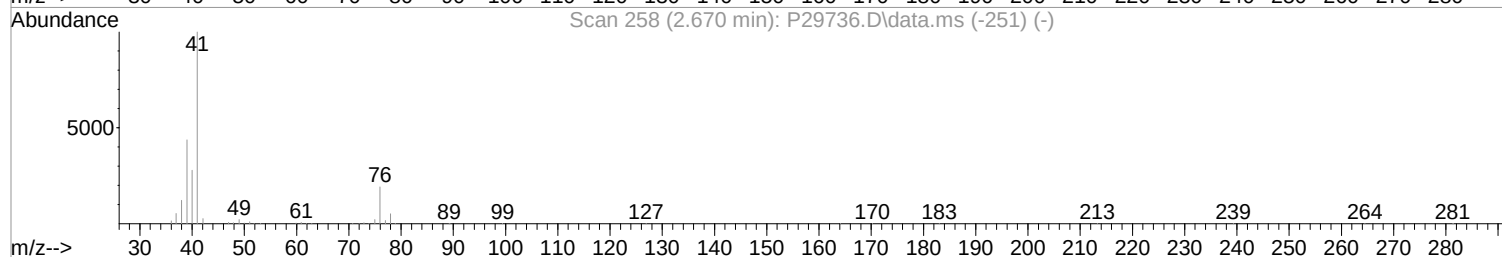
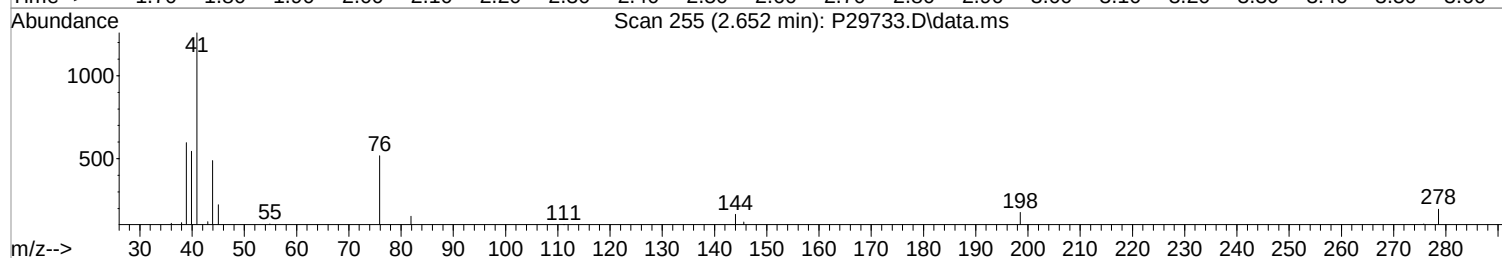
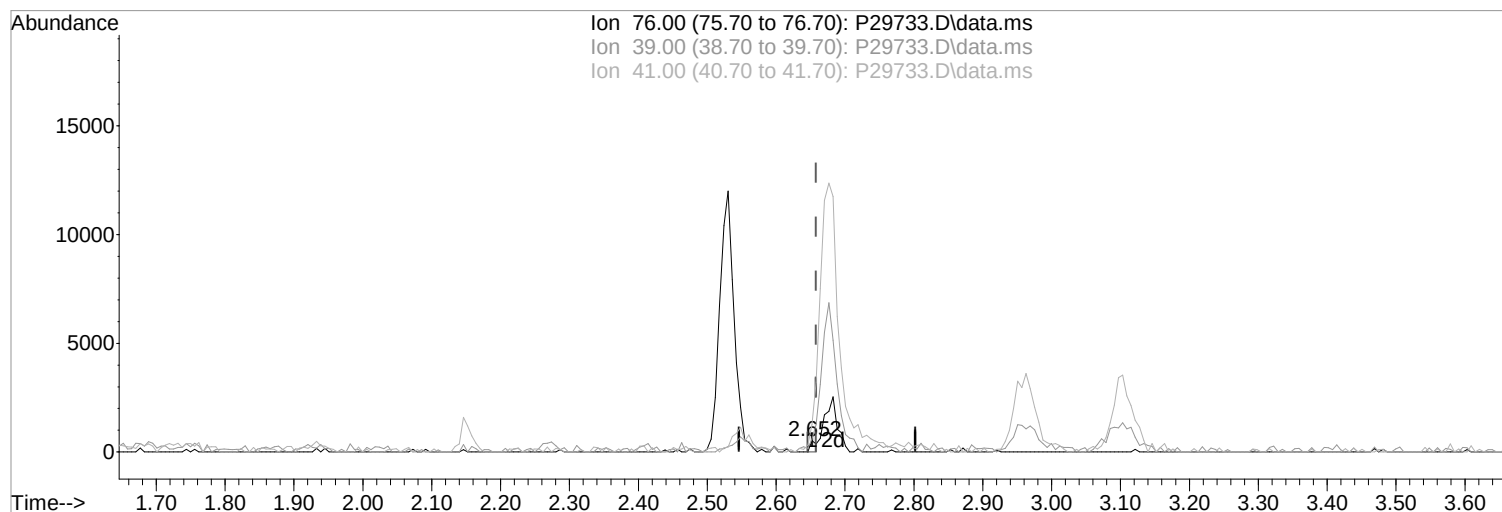
Peak not found.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:35:45 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(20) Allyl Chloride

Manual Integration:

2.652min (-0.006) 0.18 ppb

Before

response 324

Ion	Exp%	Act%
76.00	100	100
39.00	226.70	115.25#
41.00	519.30	243.05#
0.00	0.00	0.00

09/12/19

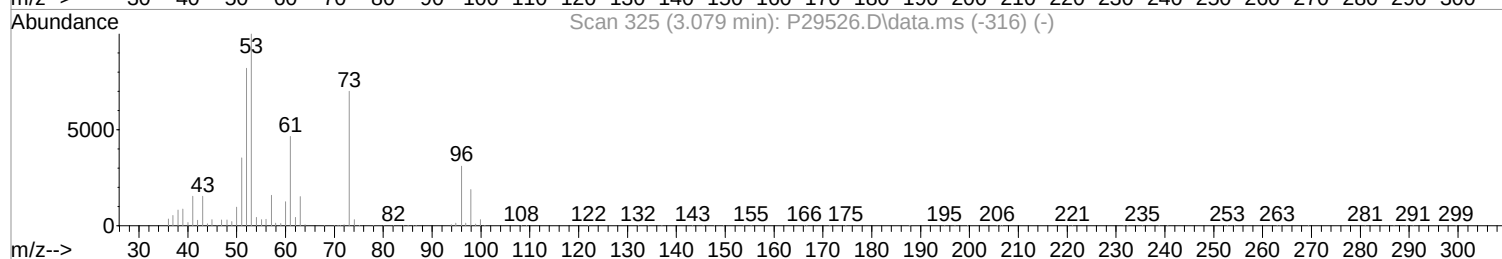
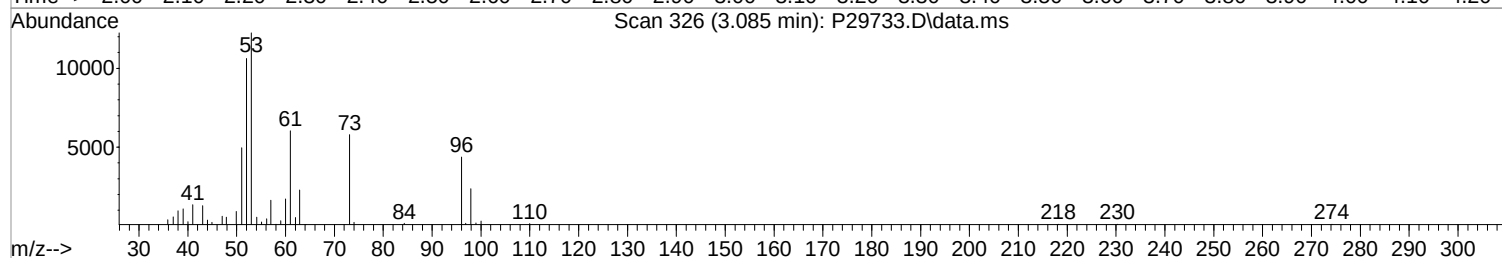
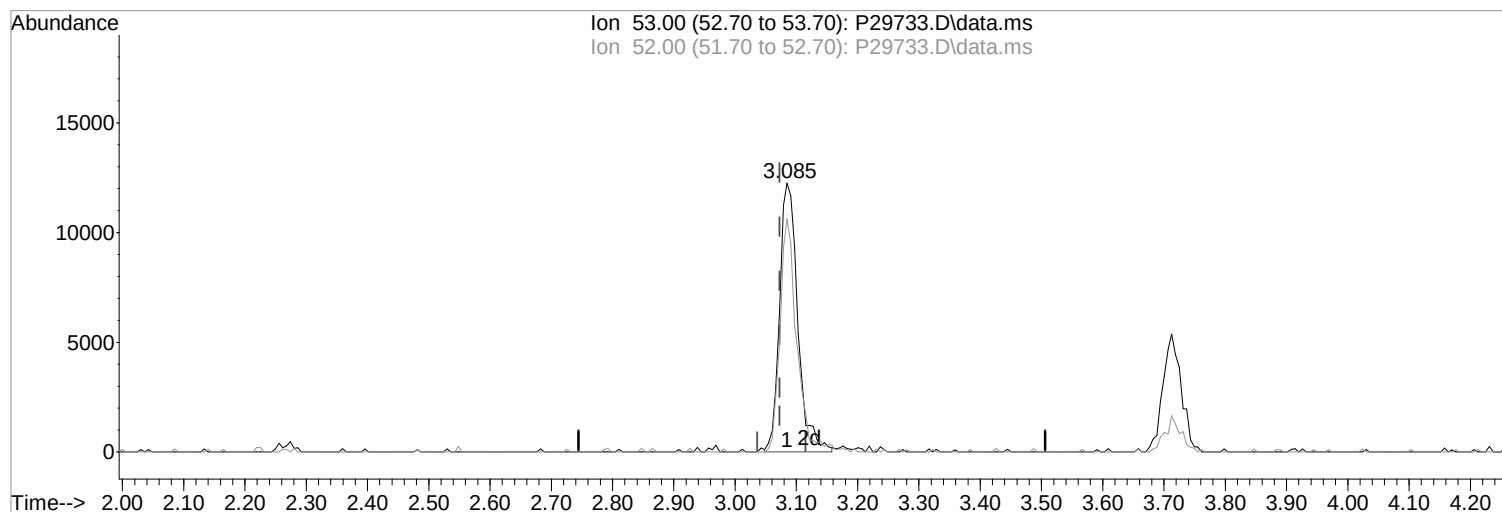
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(24) Acrylonitrile

3.085min (+0.012) 9.71 ppb m

response 25317

Ion	Exp%	Act%
53.00	100	100
52.00	81.80	86.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

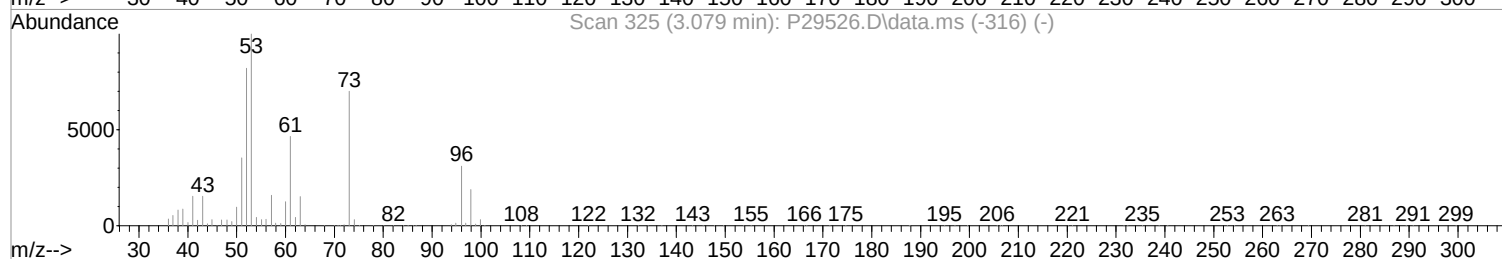
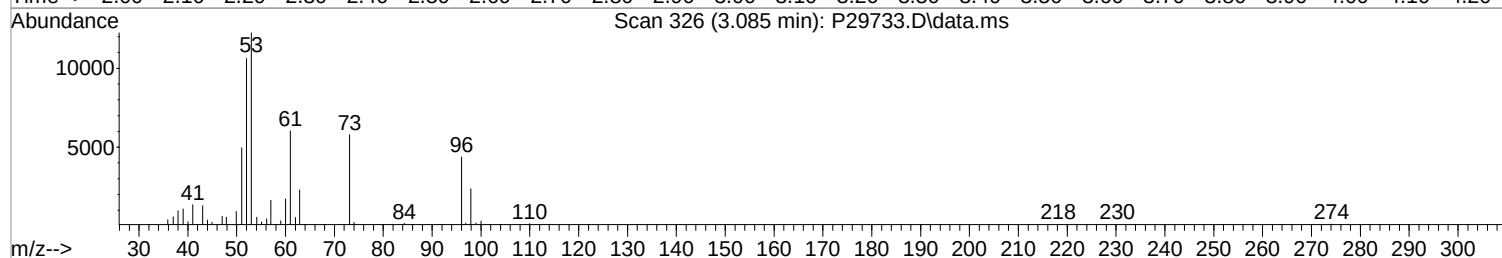
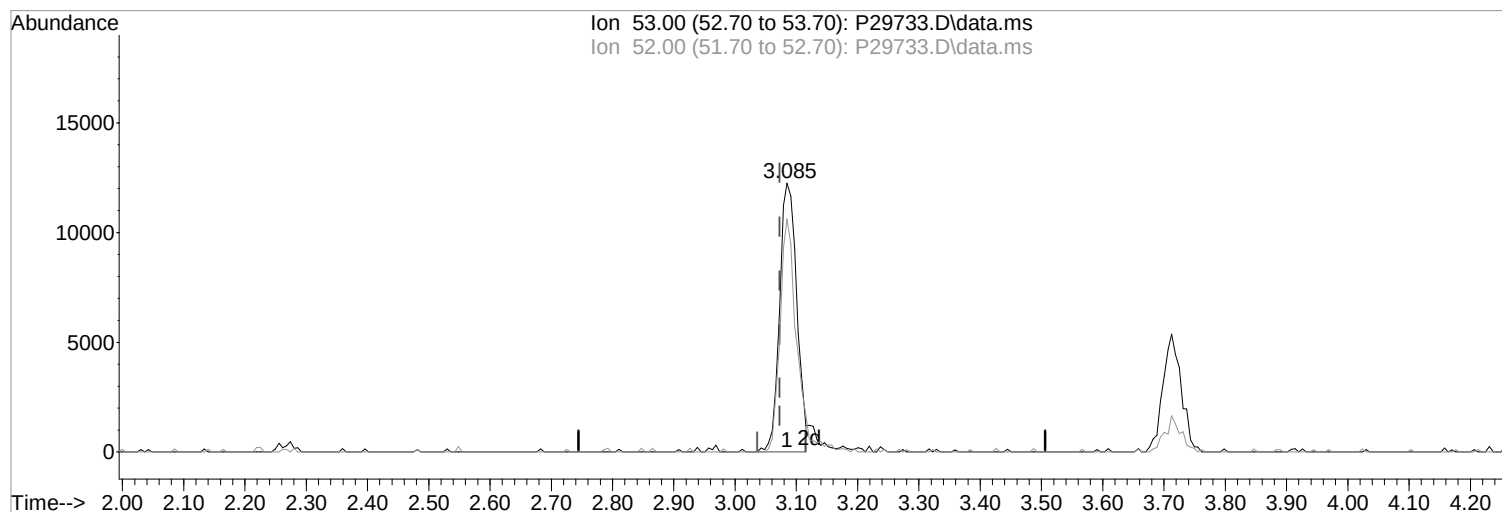
Poor integration.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(24) Acrylonitrile

Manual Integration:

3.085min (+0.012) 9.17 ppb

Before

response 23909

Ion	Exp%	Act%
53.00	100	100
52.00	81.80	86.66
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

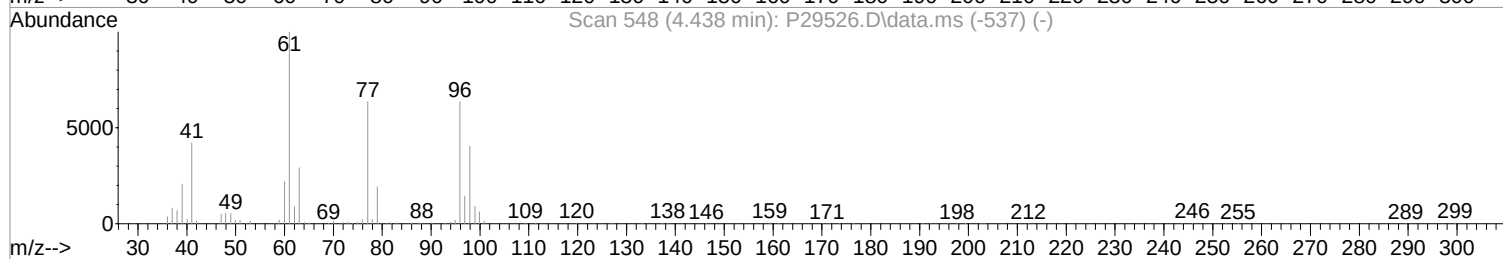
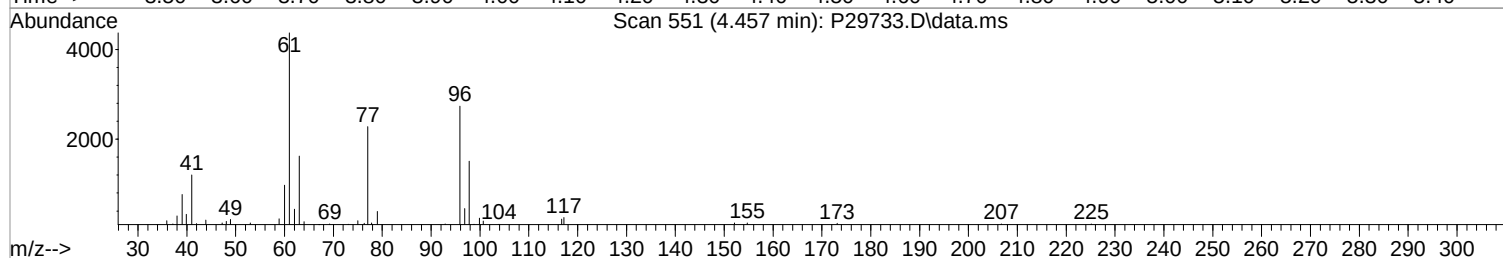
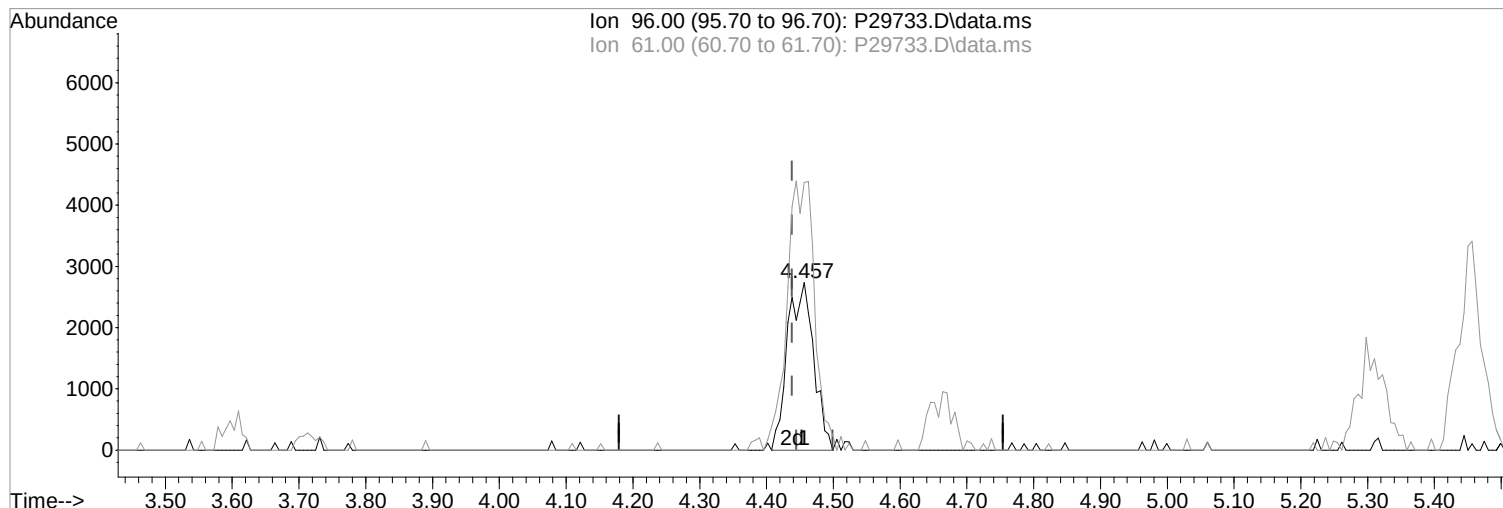
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

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

4.457min (+0.019) 1.94 ppb m

response 7392

Ion	Exp%	Act%
96.00	100	100
61.00	157.30	159.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

09/12/19

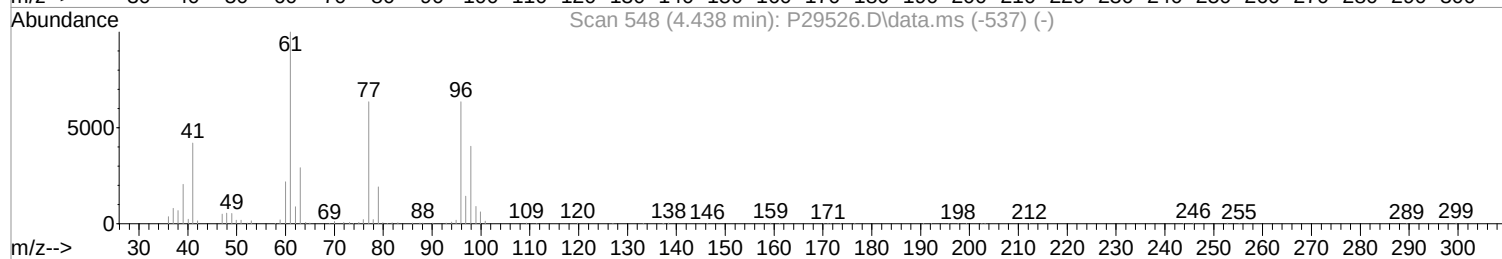
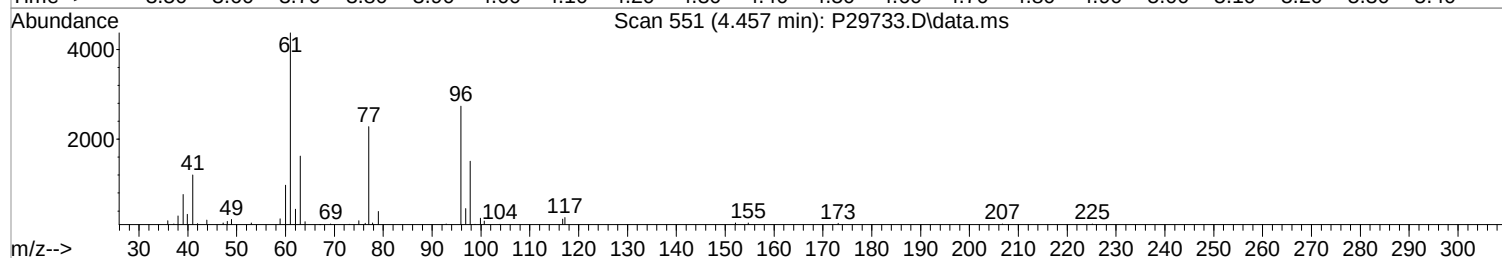
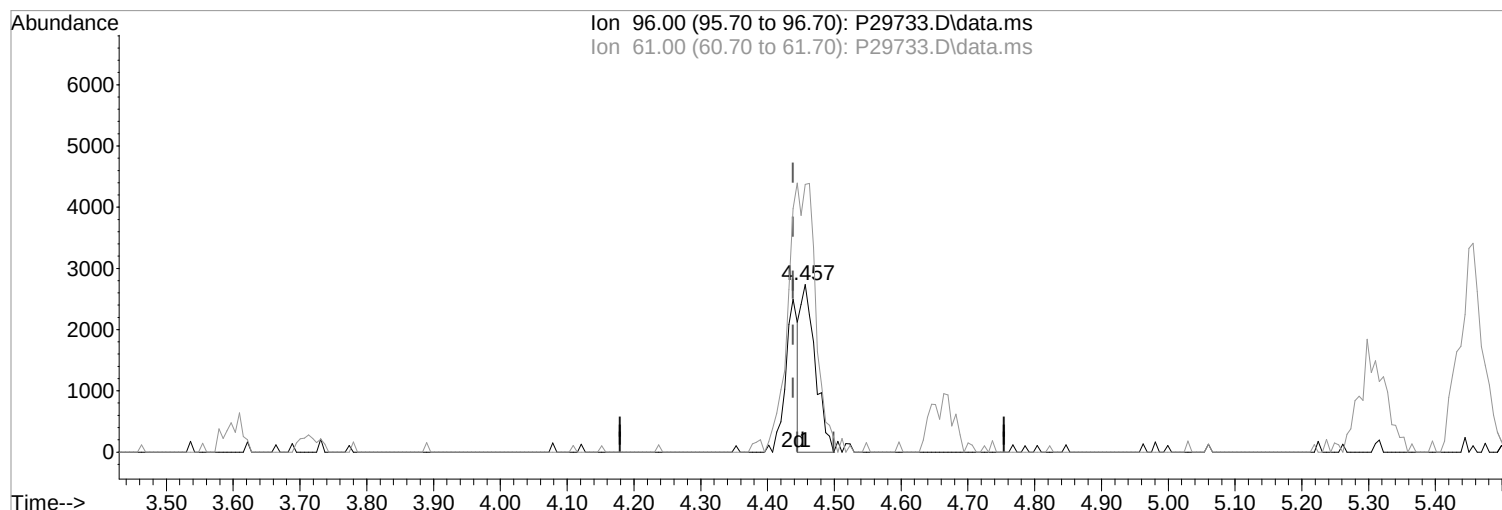
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

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

Manual Integration:

4.457min (+0.019) 1.12 ppb

Before

response 4265

Ion	Exp%	Act%
96.00	100	100
61.00	157.30	159.82
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

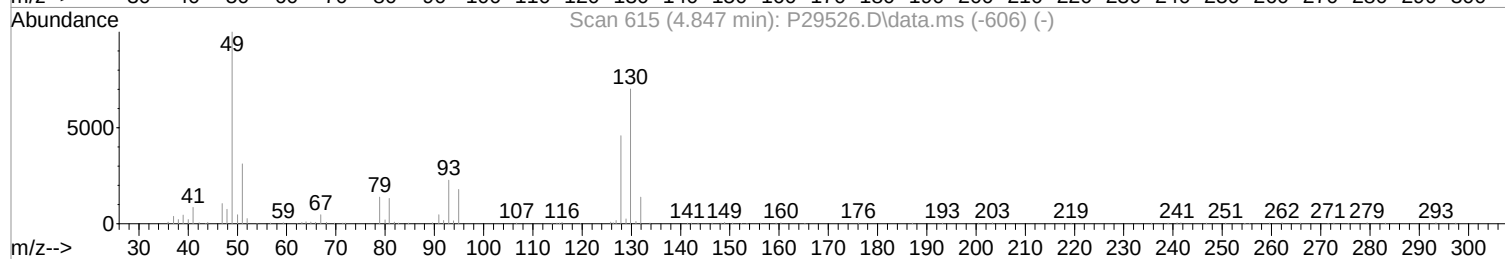
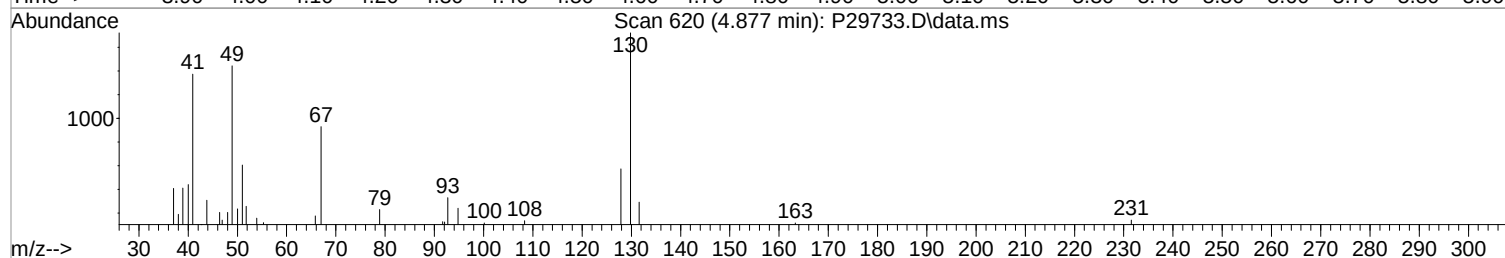
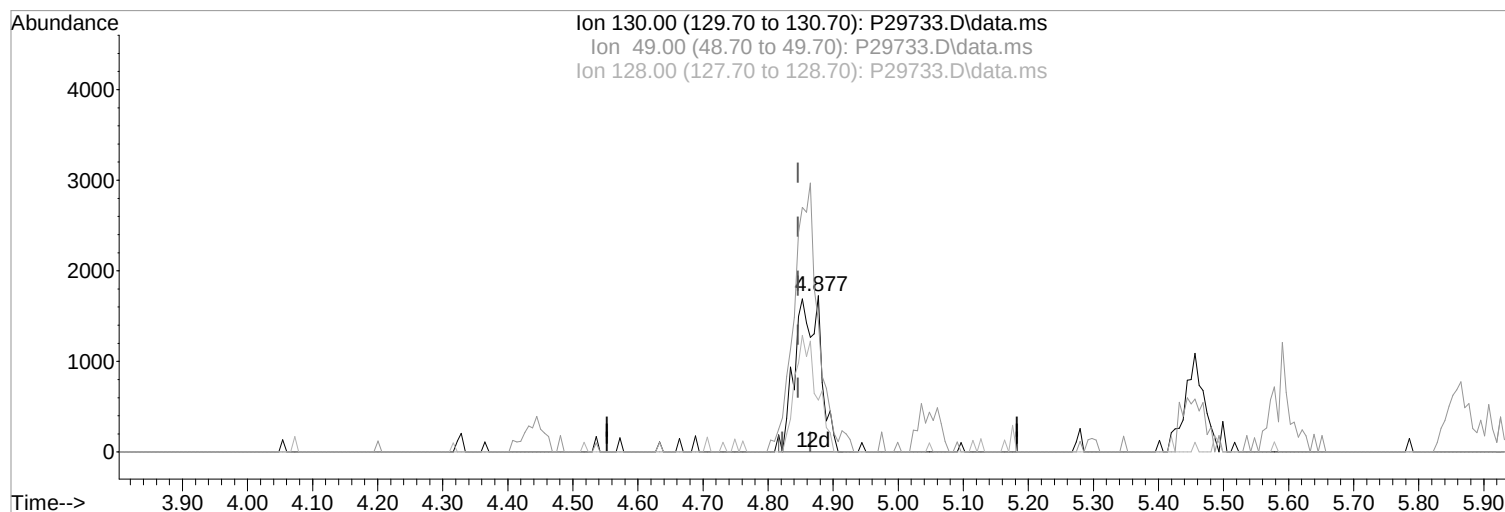
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(37) Bromochloromethane

Manual Integration:

4.877min (+0.031) 2.04 ppb m

After

response 4626

Split Peak

Ion	Exp%	Act%

09/12/19

130.00	100	100

49.00	158.10	83.82#

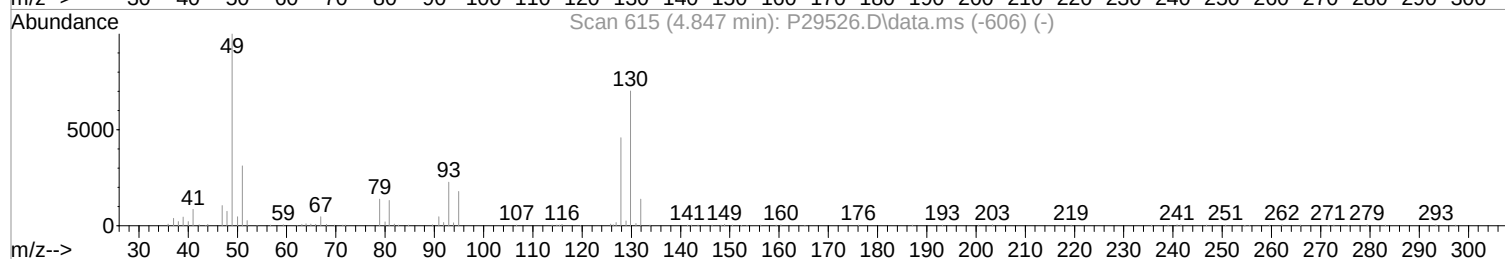
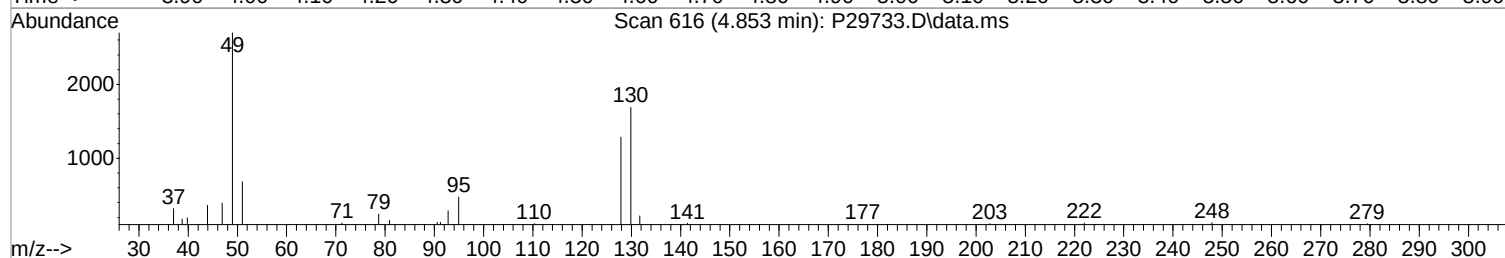
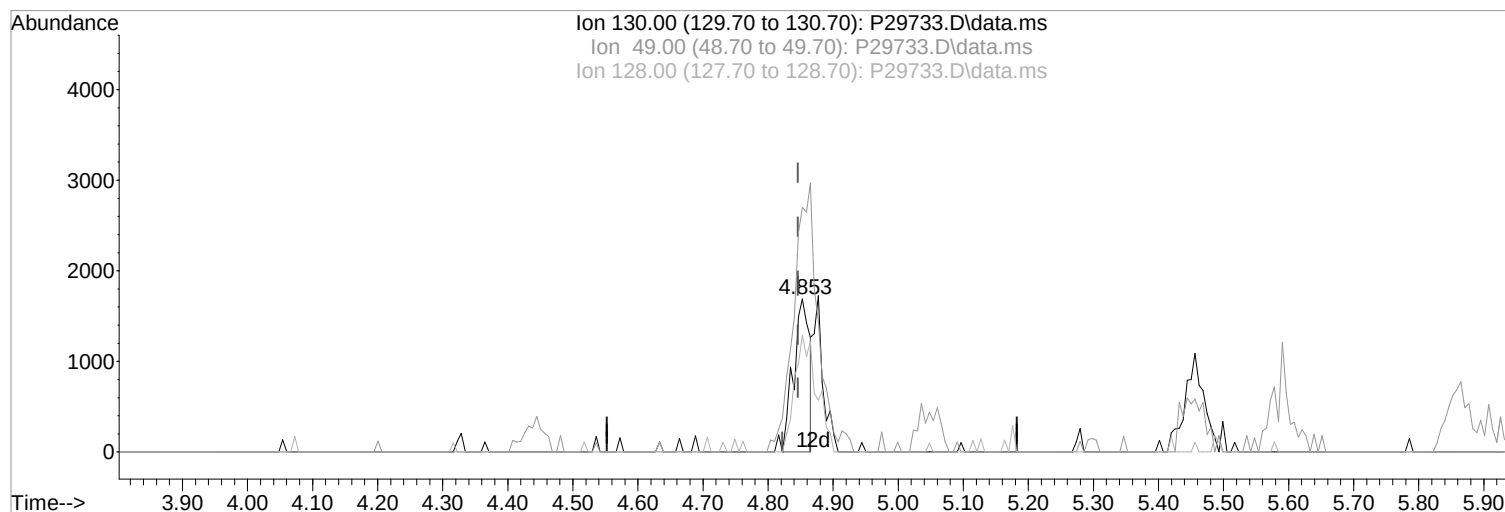
128.00	71.40	33.24#

0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(37) Bromochloromethane

Manual Integration:

4.853min (+0.006) 1.27 ppb

Before

response 2883

Ion	Exp%	Act%

09/12/19

130.00	100	100

49.00	158.10	159.70

128.00	71.40	76.15

0.00	0.00	0.00

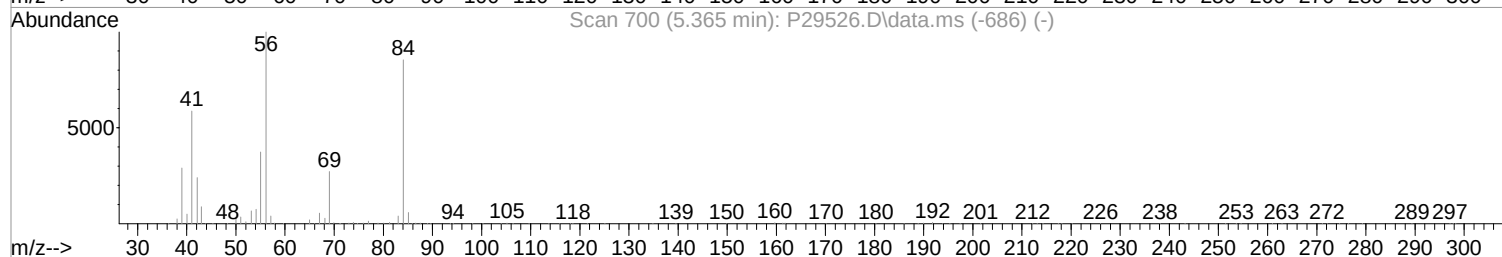
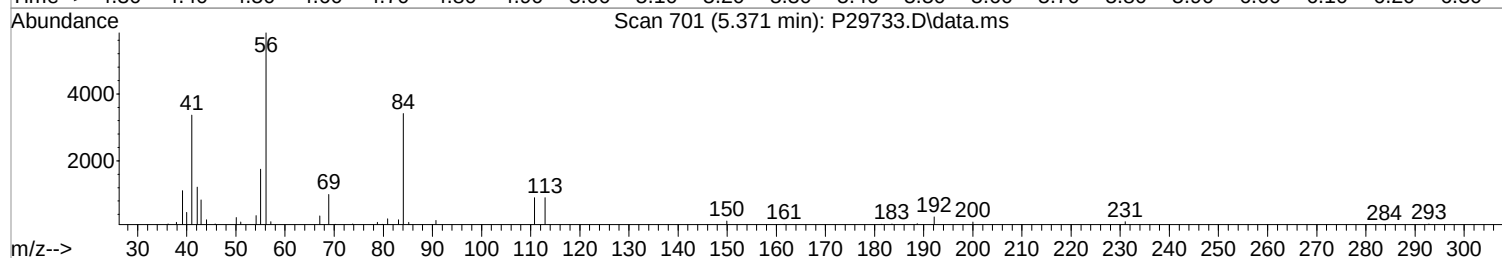
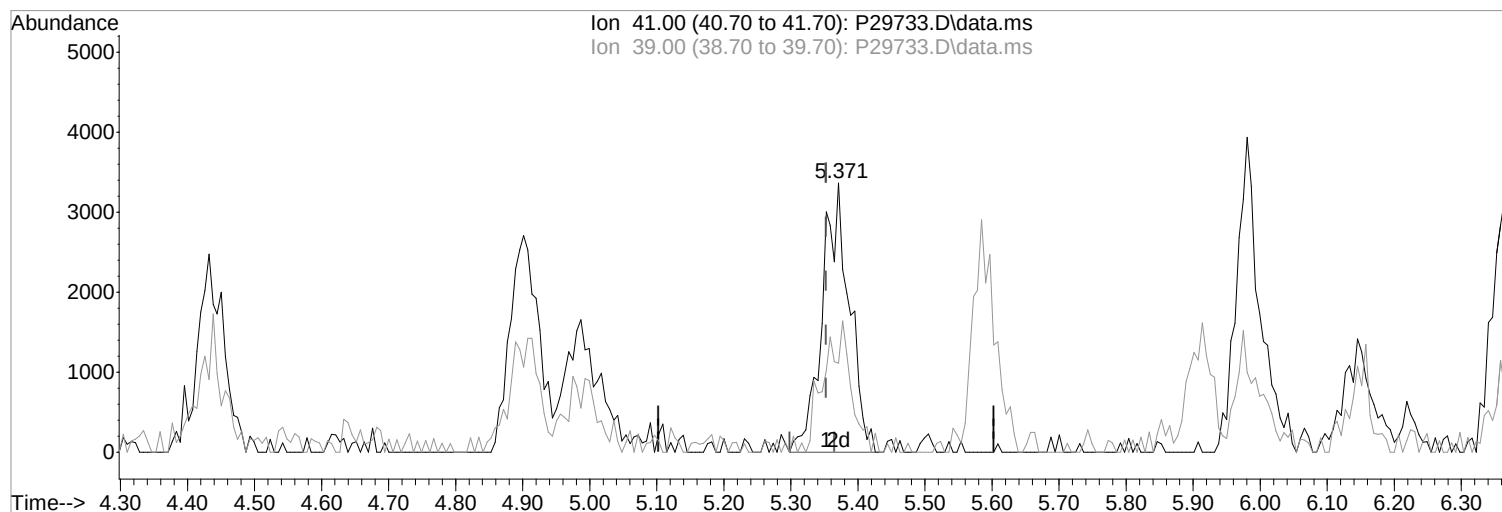
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(44) Cyclohexane (P)

5.371min (+0.019) 2.26 ppb m

response 9499

Ion	Exp%	Act%
41.00	100	100
39.00	44.40	32.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

09/12/19

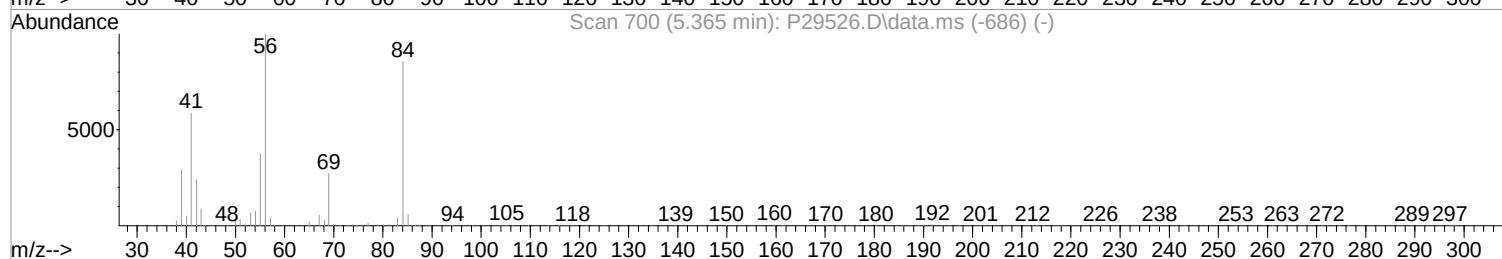
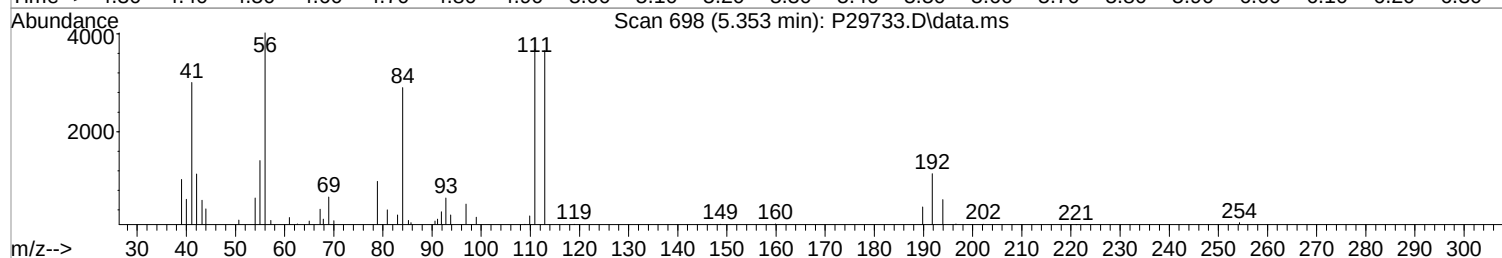
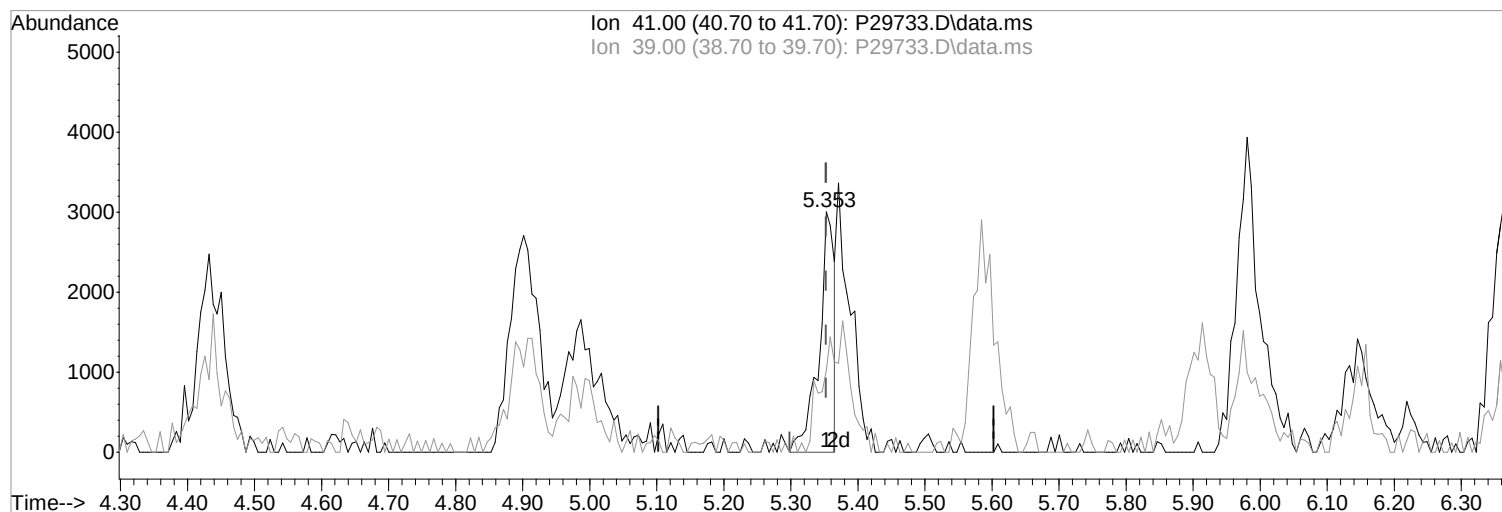
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(44) Cyclohexane (P)

Manual Integration:

5.353min (+0.000) 1.15 ppb

Before

response 4820

Ion	Exp%	Act%
41.00	100	100
39.00	44.40	34.09
0.00	0.00	0.00
0.00	0.00	0.00

09/12/19

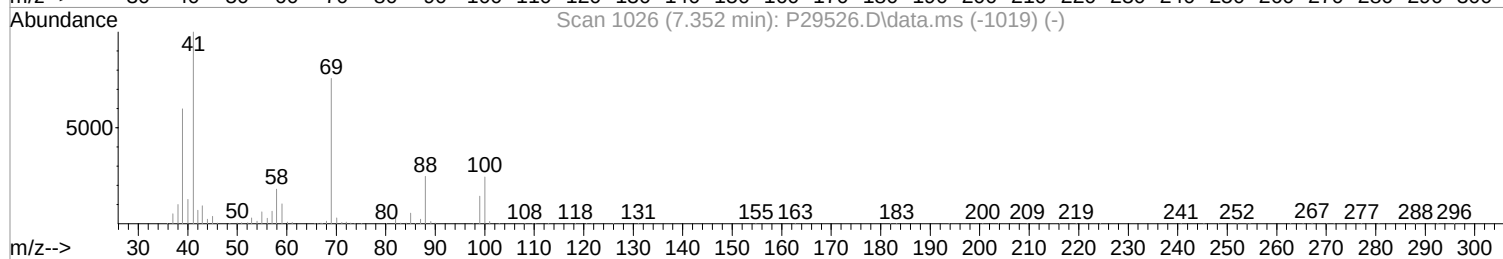
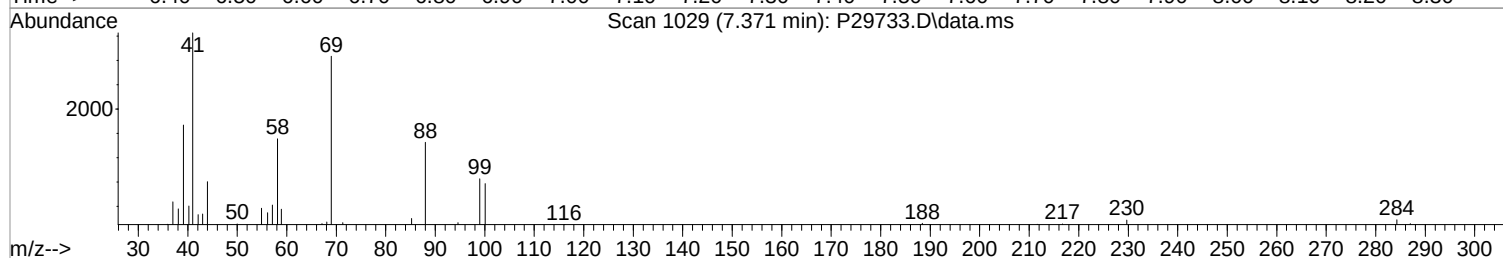
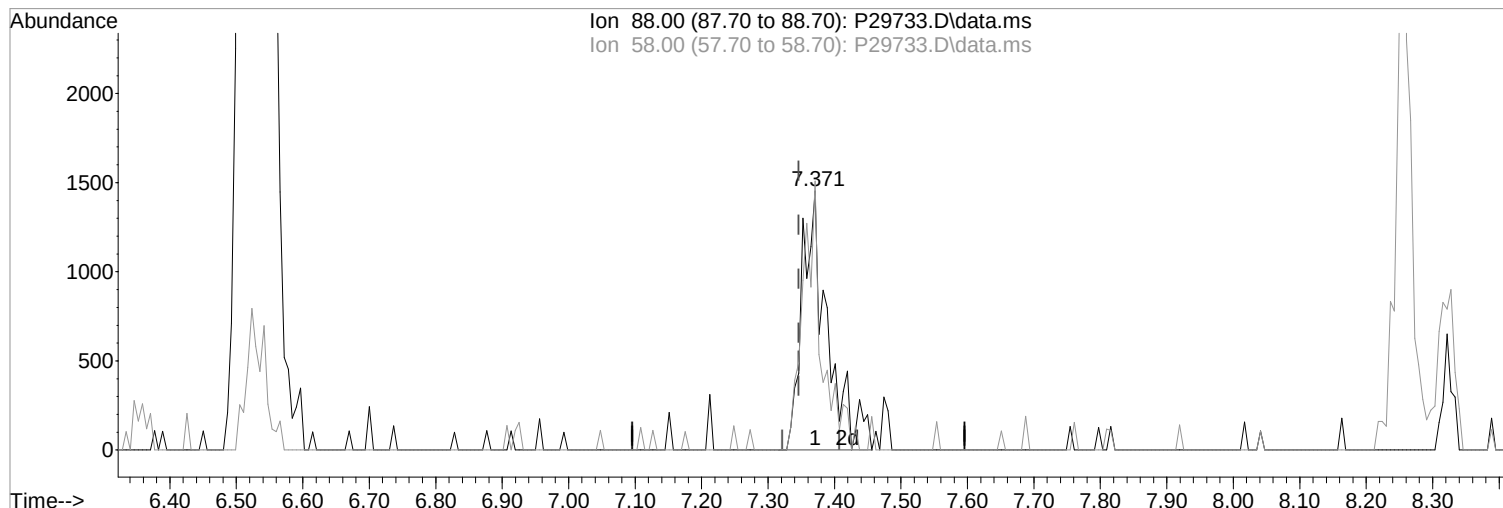
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(58) 1,4-Dioxane

7.371min (+0.025) 38.75 ppb m

response 3897

Ion	Exp%	Act%
88.00	100	100
58.00	75.60	103.78#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

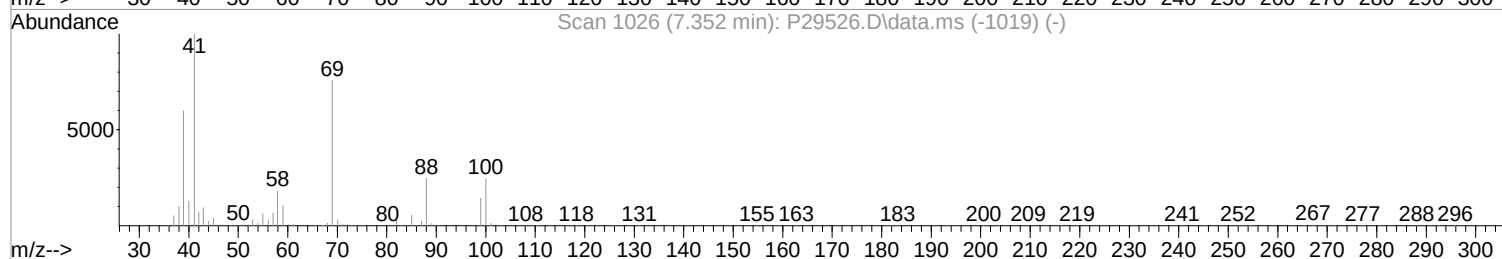
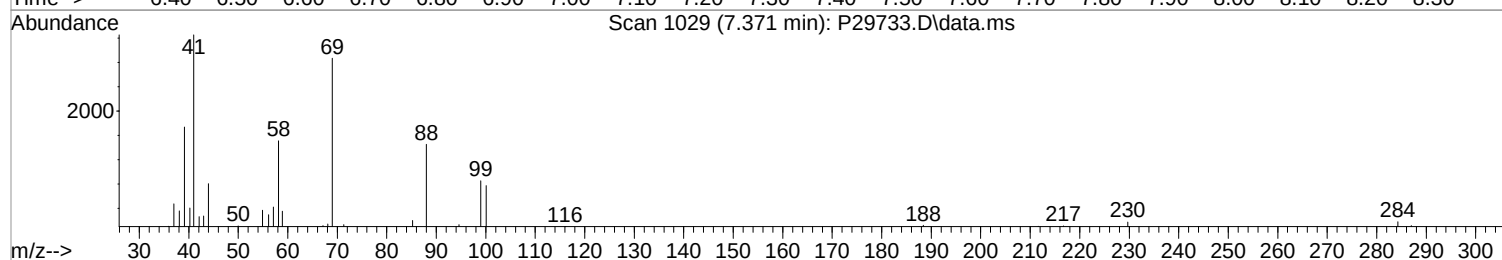
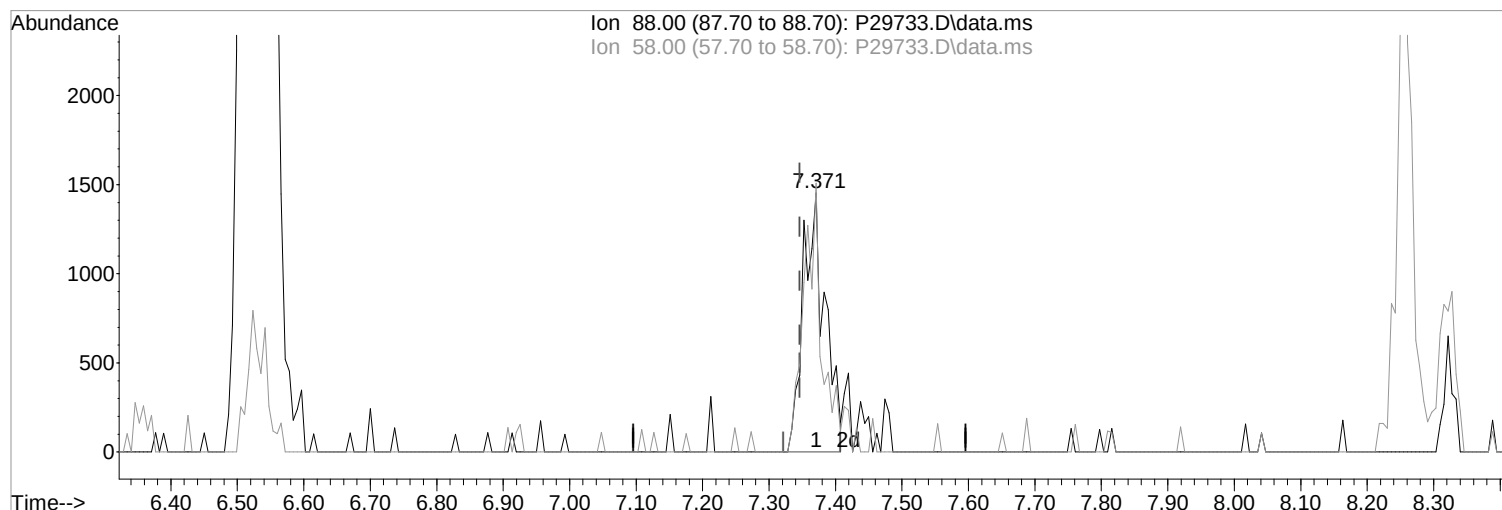
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:27 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29733.D\data.ms

(58) 1,4-Dioxane

Manual Integration:

7.371min (+0.025) 33.22 ppb

Before

response 3341

Ion Exp% Act%

09/12/19

88.00 100 100

58.00 75.60 103.78#

0.00 0.00 0.00

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29733.D
 Acq On : 11 Sep 2019 4:17 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:56:40 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.456	168	314065	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	525904	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	453358	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	230837	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	27986	10.04	ppb	0.01
Spiked Amount	50.000	Range 89 - 119	Recovery	=	20.08%#	
48) surr1,1,2-dichloroetha...	5.859	65	43764	11.35	ppb	0.01
Spiked Amount	50.000	Range 73 - 125	Recovery	=	22.70%#	
65) SURR3,Toluene-d8	8.322	98	153879	11.73	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	23.46%#	
70) SURR2,BFB	10.870	95	58312	11.42	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	22.84%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.201	85	7053	1.82	ppb	94
3) Chloromethane	1.329	50	12112	2.03	ppb	89
4) Vinyl Chloride	1.408	62	10588	1.90	ppb	95
5) Bromomethane	1.634	94	6758	2.23	ppb	95
6) Chloroethane	1.713	64	7384	2.20	ppb	96
7) Freon 21	1.866	67	12954	2.08	ppb	88
8) Trichlorofluoromethane	1.908	101	8611	1.90	ppb	97
9) Diethyl Ether	2.152	59	8209	2.06	ppb	# 78
10) Freon 123a	2.158	67	9121	2.10	ppb	88
11) Freon 123	2.213	83	10101	2.11	ppb	95
12) Acrolein	2.268	56	10204	9.18	ppb	95
13) 1,1-Dicethene	2.335	96	6046	1.97	ppb	91
14) Freon 113	2.335	101	5624	1.88	ppb	95
15) Acetone	2.408	43	7392	2.89	ppb	92
16) 2-Propanol	2.548	45	20371	35.05	ppb	94
17) Iodomethane	2.475	142	3749	1.06	ppb	90
18) Carbon Disulfide	2.530	76	17455	1.90	ppb	98
19) Acetonitrile	2.670	40	4219m	10.78	ppb	
20) Allyl Chloride	2.682	76	3403m	1.94	ppb	
21) Methyl Acetate	2.713	43	9886	1.95	ppb	99
22) Methylene Chloride	2.804	84	8425	2.11	ppb	96
23) TBA	2.957	59	30839	35.84	ppb	97
24) Acrylonitrile	3.085	53	25317m	9.71	ppb	
25) Methyl-t-Butyl Ether	3.109	73	27102	2.10	ppb	94
26) trans-1,2-Dichloroethene	3.085	96	6440	1.92	ppb	# 81
28) 1,1-Dicethane	3.603	63	13825	2.00	ppb	82
29) Vinyl Acetate	3.694	86	1040	1.38	ppb	# 1
30) DIPE	3.713	45	30856	2.05	ppb	# 67
31) 2-Chloro-1,3-Butadiene	3.713	53	11211	2.01	ppb	93
32) ETBE	4.243	59	27551	2.04	ppb	91
33) 2,2-Dichloropropane	4.444	77	9871	1.95	ppb	98
34) cis-1,2-Dichloroethene	4.457	96	7392m	1.94	ppb	
35) 2-Butanone	4.554	43	6761	1.89	ppb	79
36) Propionitrile	4.646	54	10399	9.39	ppb	89
37) Bromochloromethane	4.877	130	4626m	2.04	ppb	
38) Methacrylonitrile	4.889	67	5066	1.93	ppb	97
39) Tetrahydrofuran	4.993	42	9111	3.10	ppb	84
40) Chloroform	5.036	83	13238	2.18	ppb	97
41) 1,1,1-Trichloroethane	5.310	97	10060	2.07	ppb	94

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29733.D
 Acq On : 11 Sep 2019 4:17 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : WATER ICAL
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:56:40 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.145	73	25269	2.03	ppb	92
44) Cyclohexane	5.371	41	9499m	2.26	ppb	
46) Carbontetrachloride	5.566	117	6578	1.81	ppb	# 78
47) 1,1-Dichloropropene	5.597	75	10262	2.02	ppb	90
49) Benzene	5.914	78	32447	2.05	ppb	98
50) 1,2-Dichloroethane	5.975	62	10578	1.97	ppb	96
51) Iso-Butyl Alcohol	5.981	43	13703	30.44	ppb	95
52) n-Heptane	6.359	43	12155	2.06	ppb	89
53) 1-Butanol	6.919	56	20367	78.91	ppb	92
54) Trichloroethene	6.846	130	7197	2.05	ppb	84
55) Methylcyclohexane	7.060	55	11777	2.08	ppb	98
56) 1,2-Dichloropropane	7.145	63	8271	1.90	ppb	88
57) Dibromomethane	7.279	93	3989	1.84	ppb	# 73
58) 1,4-Dioxane	7.371	88	3897m	38.75	ppb	
59) Methyl Methacrylate	7.358	69	7981	1.97	ppb	87
60) Bromodichloromethane	7.499	83	8278	1.97	ppb	94
61) 2-Nitropropane	7.810	41	2627	3.96	ppb	# 41
62) 2-Chloroethylvinyl Ether	7.907	63	4985	1.68	ppb	93
63) cis-1,3-Dichloropropene	8.035	75	11826	1.90	ppb	96
64) 4-Methyl-2-pentanone	8.248	43	11806	1.75	ppb	87
66) Toluene	8.389	91	32857	2.05	ppb	89
67) trans-1,3-Dichloropropene	8.675	75	10527	1.83	ppb	88
68) Ethyl Methacrylate	8.803	69	13696	1.93	ppb	89
69) 1,1,2-Trichloroethane	8.858	97	7060	1.99	ppb	96
72) Tetrachloroethene	8.968	164	6105	2.23	ppb	# 92
73) 2-Hexanone	9.157	43	9152	1.81	ppb	91
74) 1,3-Dichloropropane	9.029	76	13358	1.97	ppb	93
75) Dibromochloromethane	9.248	129	5263	1.87	ppb	# 79
76) N-Butyl Acetate	9.297	43	18028	1.87	ppb	99
77) 1,2-Dibromoethane	9.352	107	7101	2.00	ppb	92
78) Chlorobenzene	9.827	112	19785	1.98	ppb	98
79) 3-CBTF	9.840	180	10091	1.96	ppb	# 77
80) 4-CBTF	9.901	180	9062	1.95	ppb	93
81) 1,1,1,2-Tetrachloroethane	9.919	131	5762	1.93	ppb	92
82) Ethylbenzene	9.943	106	10680	1.97	ppb	93
83) (m+p)Xylene	10.053	106	27396	4.18	ppb	# 82
84) o-Xylene	10.407	106	12214	1.83	ppb	98
85) Styrene	10.425	104	22252	2.01	ppb	89
87) Bromoform	10.589	173	3004	1.86	ppb	81
88) 2-CBTF	10.657	180	10778	2.24	ppb	95
89) Isopropylbenzene	10.742	105	34745	2.21	ppb	92
90) Cyclohexanone	10.833	55	31514	46.81	ppb	96
91) trans-1,4-Dichloro-2-B...	11.065	53	3193	1.84	ppb	92
92) 1,1,2,2-Tetrachloroethane	11.016	83	10154	1.94	ppb	96
93) Bromobenzene	10.992	156	8388	2.16	ppb	# 67
94) 1,2,3-Trichloropropane	11.047	110	3570	2.07	ppb	# 88
95) n-Propylbenzene	11.095	91	41871	2.22	ppb	98
96) 2-Chlorotoluene	11.156	91	25518	2.14	ppb	95
97) 3-Chlorotoluene	11.217	91	26900	2.23	ppb	93
98) 4-Chlorotoluene	11.254	91	27810	2.17	ppb	93
99) 1,3,5-Trimethylbenzene	11.248	105	28082	2.14	ppb	96
100) tert-Butylbenzene	11.516	119	25012	2.17	ppb	98
101) 1,2,4-Trimethylbenzene	11.559	105	28690	2.20	ppb	95
102) 3,4-DCBTF	11.620	214	8961	2.26	ppb	87
103) sec-Butylbenzene	11.699	105	36777	2.20	ppb	99
104) p-Isopropyltoluene	11.821	119	30649	2.14	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29733.D
Acq On : 11 Sep 2019 4:17 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : WATER ICAL
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:56:40 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration

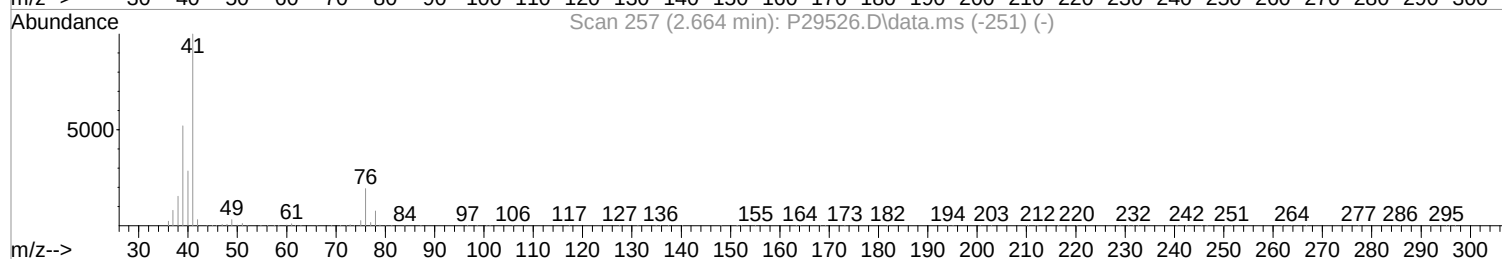
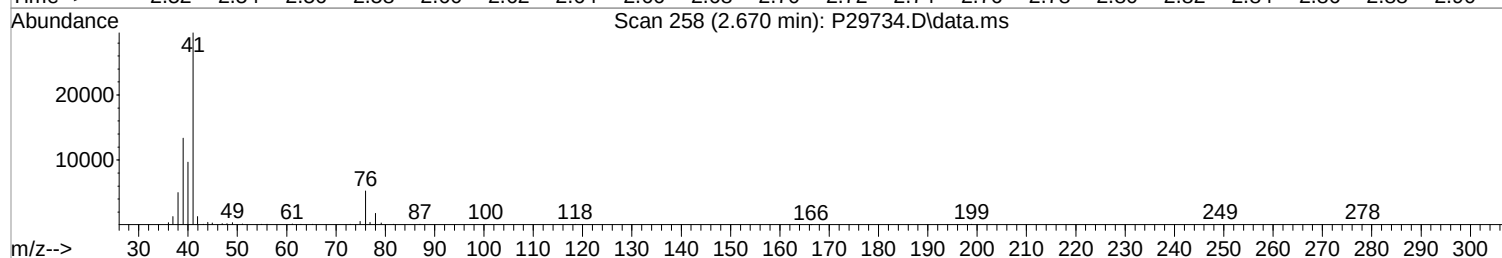
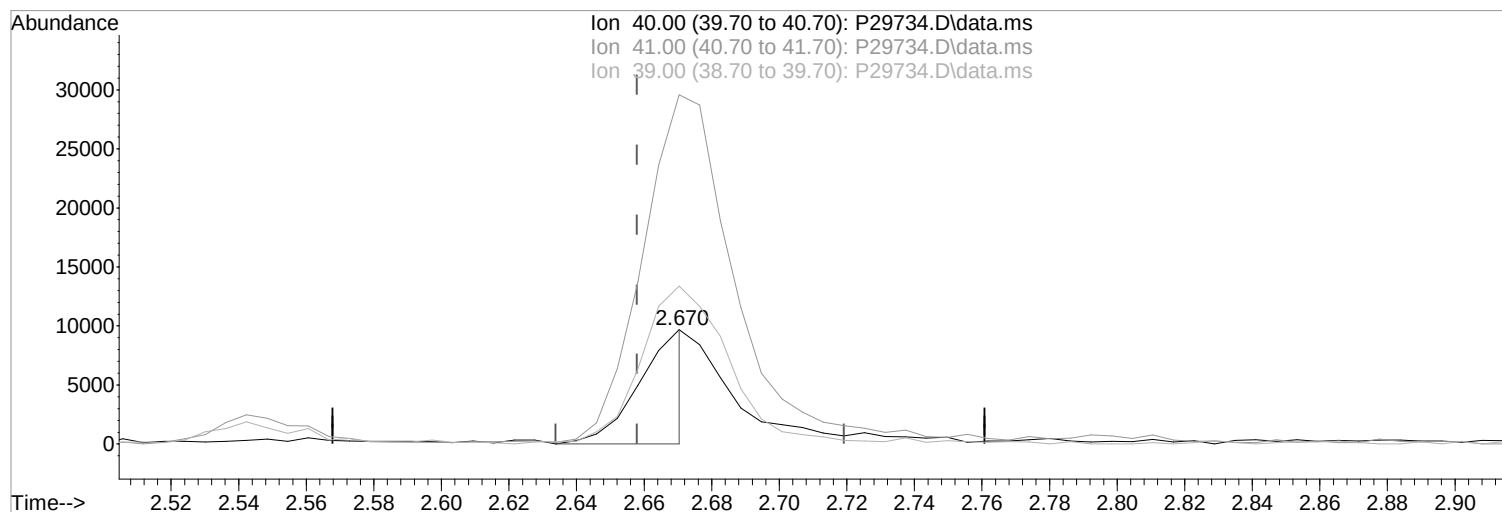
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	16881	2.18	ppb	90
106) 1,4-Dclbenz	11.864	146	16730	2.11	ppb	91
107) 2,4-DCBTF	11.912	214	7816m	2.16	ppb	
108) 2,5-DCBTF	11.955	214	7910	1.96	ppb	# 89
109) n-Butylbenzene	12.150	91	29811	2.13	ppb	98
110) 1,2-Dclbenz	12.162	146	16819	2.20	ppb	89
111) 1,2-Dibromo-3-chloropr...	12.790	157	1981	1.63	ppb	94
112) Trielution Dichlorotol...	12.900	125	45692	6.53	ppb	97
113) 1,3,5 Trichlorobenzene	12.949	180	12615	2.20	ppb	# 92
114) Coelution Dichlorotoluene	13.229	125	32329	4.13	ppb	92
115) 1,2,4-Tcbenzene	13.436	180	13089	2.22	ppb	98
116) Hexachlorobt	13.565	225	4028	1.71	ppb	# 73
117) Naphthalen	13.632	128	41157	2.22	ppb	97
118) 1,2,3-Tclbenzene	13.814	180	12584	2.16	ppb	91
119) 2,4,5-Trichlorotoluene	14.394	159	9498	2.14	ppb	98
120) 2,3,6-Trichlorotoluene	14.479	159	9583m	2.09	ppb	

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

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29734.D
Acq On : 11 Sep 2019 4:39 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:30 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29734.D\data.ms

(19) Acetonitrile

2.670min (+0.013) 23.94 ppb m

response 9489

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	305.03#
39.00	137.60	137.88
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

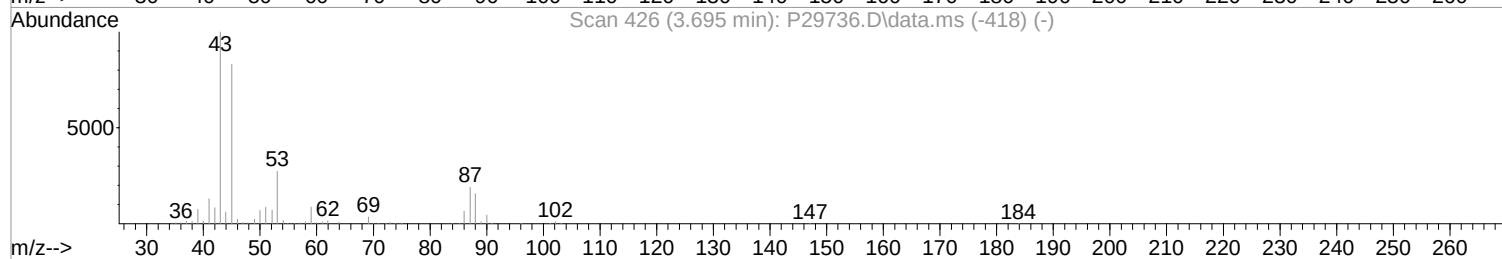
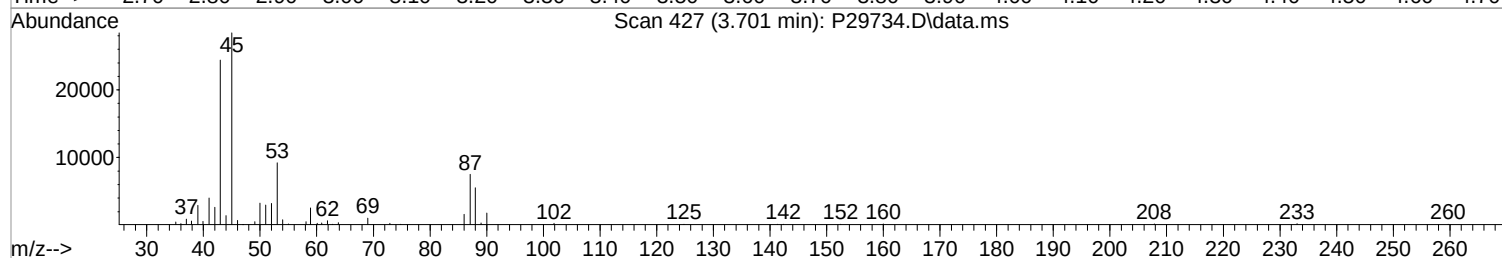
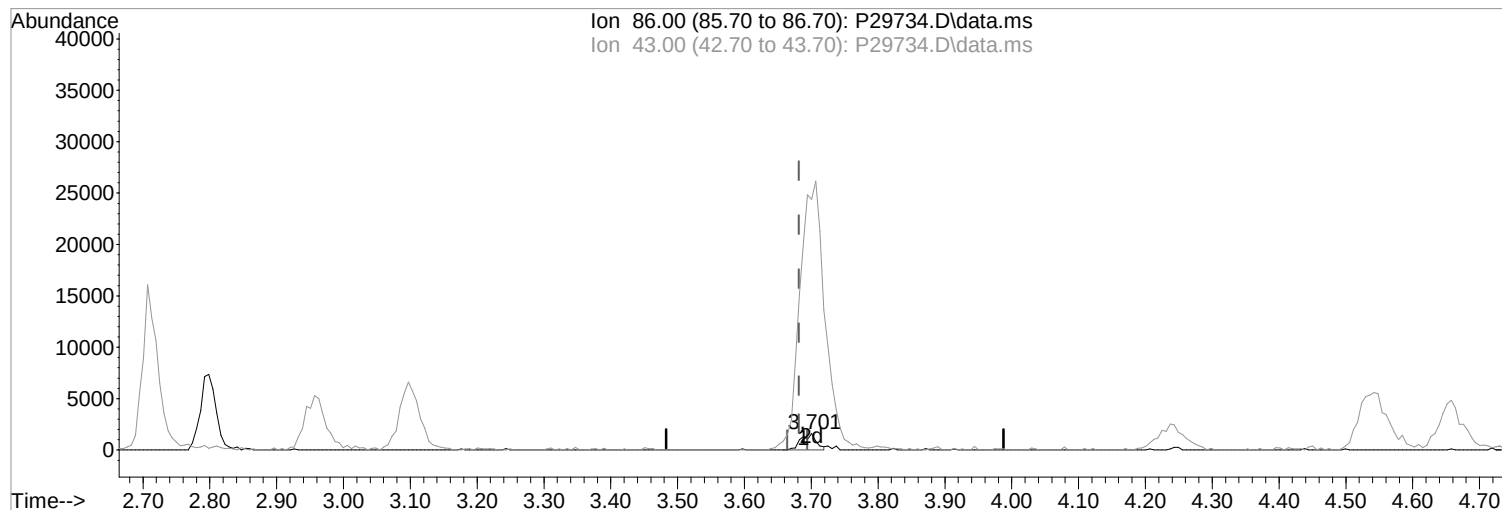
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29734.D
Acq On : 11 Sep 2019 4:39 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:39:05 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29734.D\data.ms

(29) Vinyl Acetate

3.701min (+0.019) 3.32 ppb m

response 2535

Ion	Exp%	Act%
86.00	100	100
43.00	1567.90	1533.58#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

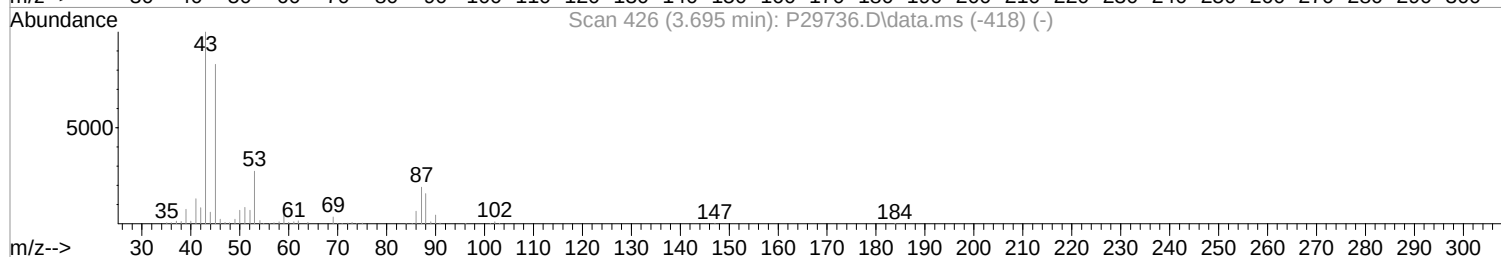
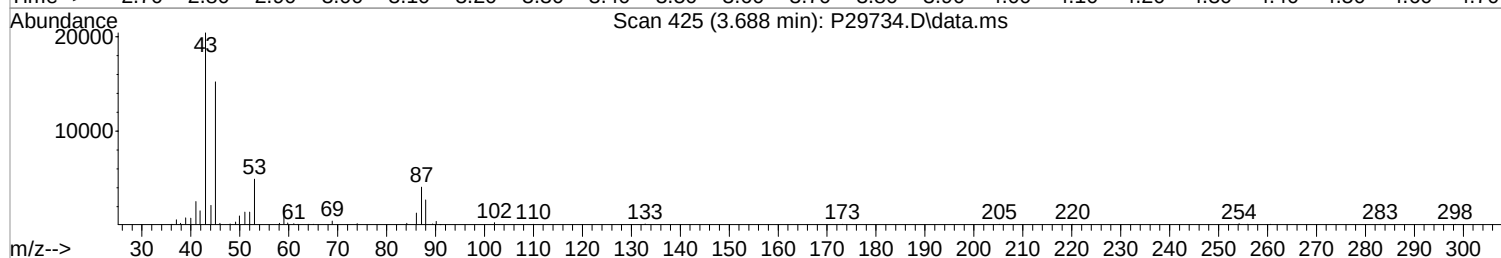
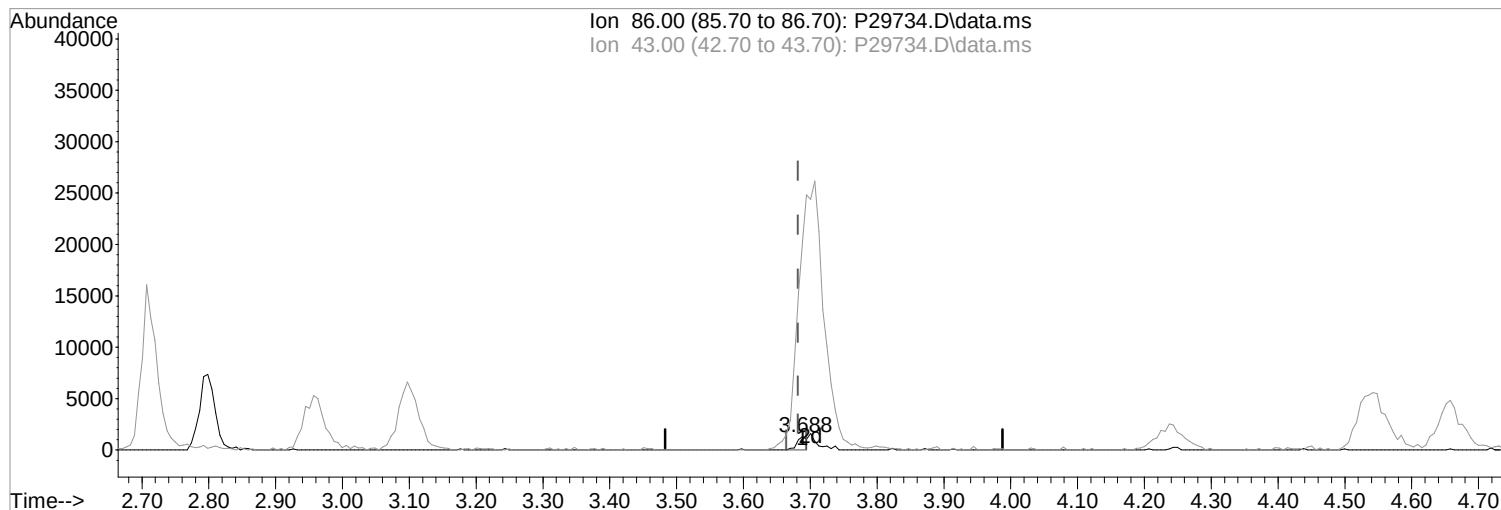
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29734.D
Acq On : 11 Sep 2019 4:39 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:39:05 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29734.D\data.ms

(29) Vinyl Acetate

Manual Integration:

3.688min (+0.006) 1.80 ppb

Before

response 1370

Ion Exp% Act%

09/12/19

86.00 100 100

43.00 1567.90 1554.91

0.00 0.00 0.00

0.00 0.00 0.00

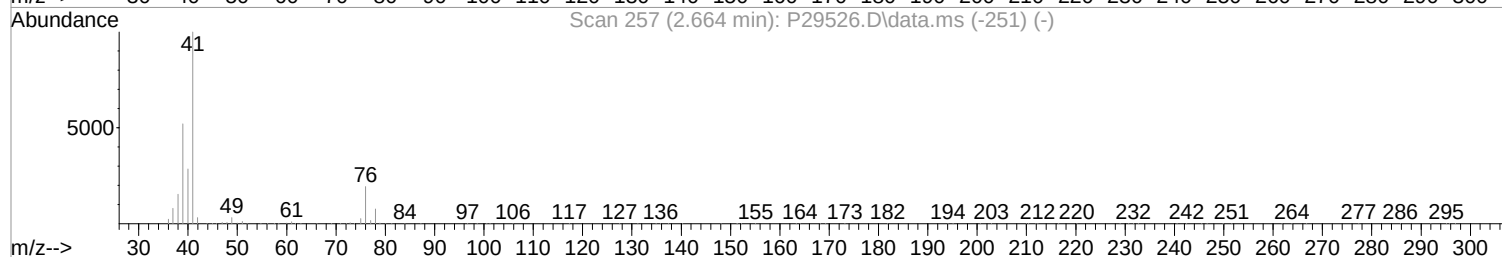
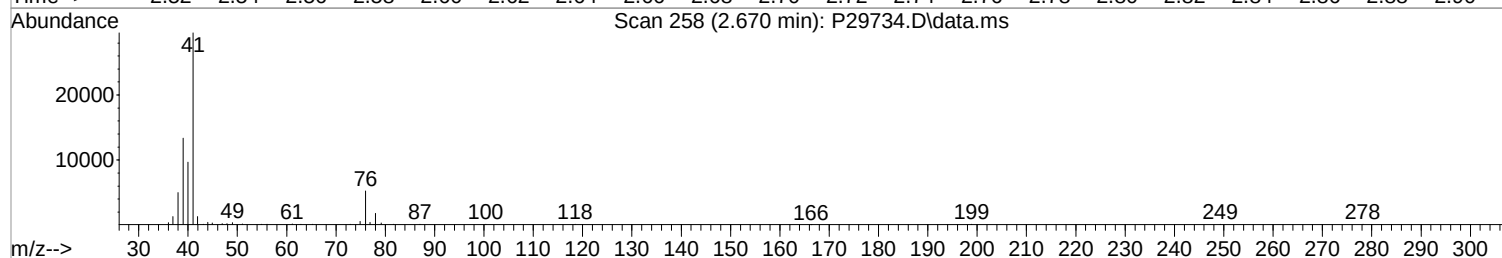
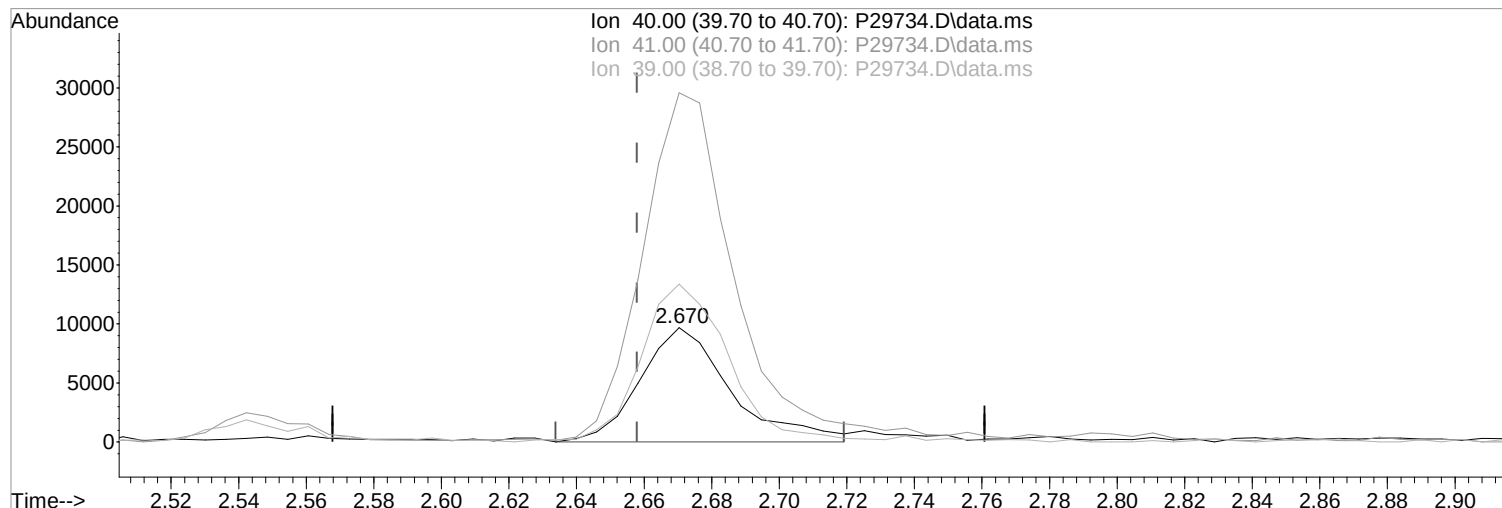
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29734.D
Acq On : 11 Sep 2019 4:39 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : WATER ICAL
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:30 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29734.D\data.ms

(19) Acetonitrile

Manual Integration:

2.670min (+0.013) 45.71 ppb

Before

response 18120

Ion Exp% Act%

09/12/19

40.00 100 100

41.00 334.20 305.03#

39.00 137.60 137.88

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29734.D
 Acq On : 11 Sep 2019 4:39 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:18:53 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.450	168	318121	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	515646	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	461611	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	240152	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	30688	11.23	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.46%#
48) surr1,1,2-dichloroetha...	5.859	65	41075	10.86	ppb	0.01
Spiked Amount	50.000	Range	73 - 125	Recovery	=	21.72%#
65) SURR3,Toluene-d8	8.316	98	149291	11.60	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.20%#
70) SURR2,BFB	10.870	95	54511	10.89	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	21.78%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.201	85	15356	3.91	ppb	98
3) Chloromethane	1.323	50	25770	4.25	ppb	96
4) Vinyl Chloride	1.402	62	25775	4.56	ppb	98
5) Bromomethane	1.622	94	15128	4.93	ppb	97
6) Chloroethane	1.707	64	14892	4.37	ppb	89
7) Freon 21	1.866	67	31323	4.97	ppb	98
8) Trichlorofluoromethane	1.902	101	20569	4.49	ppb	96
9) Diethyl Ether	2.146	59	20126	4.98	ppb	92
10) Freon 123a	2.152	67	21122	4.79	ppb	97
11) Freon 123	2.207	83	23326	4.80	ppb	96
12) Acrolein	2.262	56	26951	23.94	ppb	91
13) 1,1-Dicethene	2.329	96	14784	4.75	ppb	# 81
14) Freon 113	2.335	101	13494	4.46	ppb	85
15) Acetone	2.408	43	13756	5.31	ppb	100
16) 2-Propanol	2.542	45	55759	94.71	ppb	99
17) Iodomethane	2.469	142	12015	3.35	ppb	96
18) Carbon Disulfide	2.524	76	41122	4.41	ppb	98
19) Acetonitrile	2.670	40	9489m	23.94	ppb	
20) Allyl Chloride	2.676	76	8923	5.02	ppb	# 93
21) Methyl Acetate	2.707	43	25213	4.91	ppb	98
22) Methylene Chloride	2.798	84	19640	4.85	ppb	94
23) TBA	2.957	59	79737	91.50	ppb	99
24) Acrylonitrile	3.079	53	67984	25.75	ppb	97
25) Methyl-t-Butyl Ether	3.103	73	66938	5.11	ppb	97
26) trans-1,2-Dichloroethene	3.085	96	16397	4.82	ppb	89
28) 1,1-Dicethane	3.597	63	33558	4.80	ppb	93
29) Vinyl Acetate	3.701	86	2535m	3.32	ppb	
30) DIPE	3.707	45	73173	4.81	ppb	92
31) 2-Chloro-1,3-Butadiene	3.707	53	26452	4.68	ppb	98
32) ETBE	4.237	59	68875	5.03	ppb	95
33) 2,2-Dichloropropane	4.432	77	22052	4.30	ppb	92
34) cis-1,2-Dichloroethene	4.444	96	18741	4.84	ppb	# 81
35) 2-Butanone	4.542	43	17346	4.80	ppb	89
36) Propionitrile	4.639	54	27064	24.13	ppb	99
37) Bromochloromethane	4.853	130	11430	4.98	ppb	# 89
38) Methacrylonitrile	4.902	67	12154	4.58	ppb	# 78
39) Tetrahydrofuran	4.975	42	15732	5.28	ppb	# 55
40) Chloroform	5.036	83	29460	4.78	ppb	91
41) 1,1,1-Trichloroethane	5.304	97	23585	4.80	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29734.D
 Acq On : 11 Sep 2019 4:39 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:18:53 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	66026	5.23	ppb	95
44) Cyclohexane	5.365	41	18586	4.51	ppb	94
46) Carbontetrachloride	5.566	117	16680	4.68	ppb	92
47) 1,1-Dichloropropene	5.591	75	24371	4.89	ppb	93
49) Benzene	5.908	78	74800	4.83	ppb	94
50) 1,2-Dichloroethane	5.975	62	27114	5.15	ppb	88
51) Iso-Butyl Alcohol	5.981	43	41965	95.08	ppb	89
52) n-Heptane	6.353	43	26345	4.54	ppb	82
53) 1-Butanol	6.920	56	59178	233.85	ppb	97
54) Trichloroethene	6.840	130	16117	4.68	ppb	92
55) Methylcyclohexane	7.060	55	27159	4.89	ppb	93
56) 1,2-Dicloropropane	7.133	63	20327	4.75	ppb	83
57) Dibromomethane	7.279	93	10317	4.86	ppb	99
58) 1,4-Dioxane	7.358	88	9266	93.96	ppb	83
59) Methyl Methacrylate	7.358	69	19701	4.95	ppb	96
60) Bromodichloromethane	7.505	83	20432	4.96	ppb	91
61) 2-Nitropropane	7.810	41	5234	8.05	ppb	# 74
62) 2-Chloroethylvinyl Ether	7.907	63	14186	4.89	ppb	97
63) cis-1,3-Dichloropropene	8.035	75	30513	4.99	ppb	95
64) 4-Methyl-2-pentanone	8.255	43	30654	4.63	ppb	96
66) Toluene	8.389	91	78273	4.99	ppb	97
67) trans-1,3-Dichloropropene	8.675	75	27135	4.82	ppb	92
68) Ethyl Methacrylate	8.803	69	32552	4.67	ppb	97
69) 1,1,2-Trichloroethane	8.864	97	18294	5.26	ppb	94
72) Tetrachloroethene	8.968	164	12992	4.67	ppb	# 84
73) 2-Hexanone	9.157	43	24098	4.69	ppb	96
74) 1,3-Dichloropropane	9.029	76	35214	5.09	ppb	94
75) Dibromochloromethane	9.248	129	13675	4.78	ppb	95
76) N-Butyl Acetate	9.297	43	51146	5.22	ppb	98
77) 1,2-Dibromoethane	9.346	107	17839	4.95	ppb	99
78) Chlorobenzene	9.827	112	49884	4.90	ppb	96
79) 3-CBTF	9.846	180	25983	4.95	ppb	89
80) 4-CBTF	9.901	180	22427	4.74	ppb	92
81) 1,1,1,2-Tetrachloroethane	9.919	131	14435	4.76	ppb	93
82) Ethylbenzene	9.943	106	25867	4.68	ppb	98
83) (m+p)Xylene	10.053	106	67991	10.18	ppb	94
84) o-Xylene	10.413	106	32574	4.79	ppb	97
85) Styrene	10.425	104	56257	5.00	ppb	98
87) Bromoform	10.583	173	8059	4.79	ppb	89
88) 2-CBTF	10.663	180	23639	4.72	ppb	96
89) Isopropylbenzene	10.742	105	87280	5.33	ppb	96
90) Cyclohexanone	10.833	55	77728	110.97	ppb	93
91) trans-1,4-Dichloro-2-B...	11.059	53	8817	4.88	ppb	# 74
92) 1,1,2,2-Tetrachloroethane	11.022	83	27544	5.05	ppb	90
93) Bromobenzene	10.992	156	19537	4.84	ppb	91
94) 1,2,3-Trichloropropane	11.047	110	9684	5.39	ppb	# 79
95) n-Propylbenzene	11.096	91	100647	5.13	ppb	98
96) 2-Chlorotoluene	11.156	91	64901	5.24	ppb	98
97) 3-Chlorotoluene	11.217	91	66036	5.25	ppb	98
98) 4-Chlorotoluene	11.254	91	69452	5.20	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	69678	5.11	ppb	98
100) tert-Butylbenzene	11.516	119	62672	5.22	ppb	93
101) 1,2,4-Trimethylbenzene	11.559	105	68078	5.02	ppb	99
102) 3,4-DCBTF	11.620	214	18845	4.56	ppb	97
103) sec-Butylbenzene	11.699	105	87677	5.04	ppb	99
104) p-Isopropyltoluene	11.821	119	74736	5.02	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29734.D
 Acq On : 11 Sep 2019 4:39 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : WATER ICAL
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:18:53 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

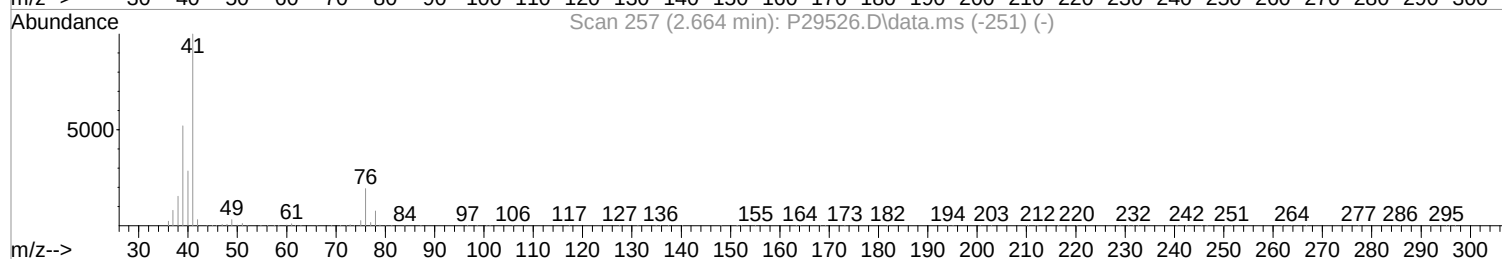
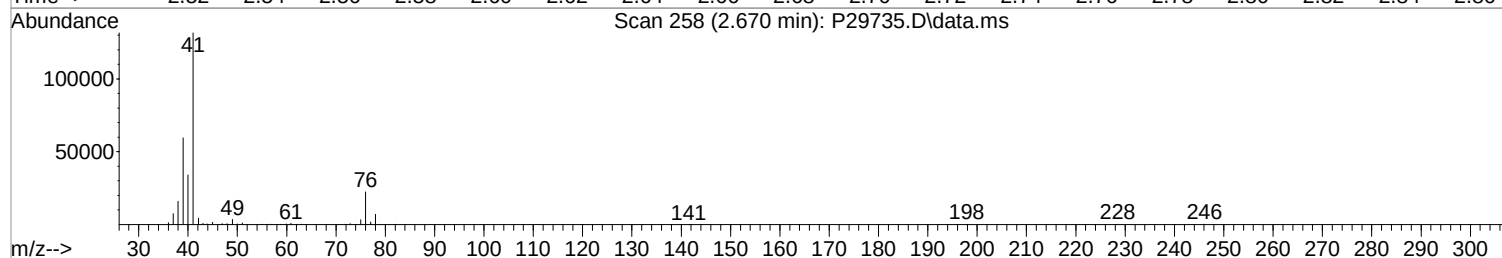
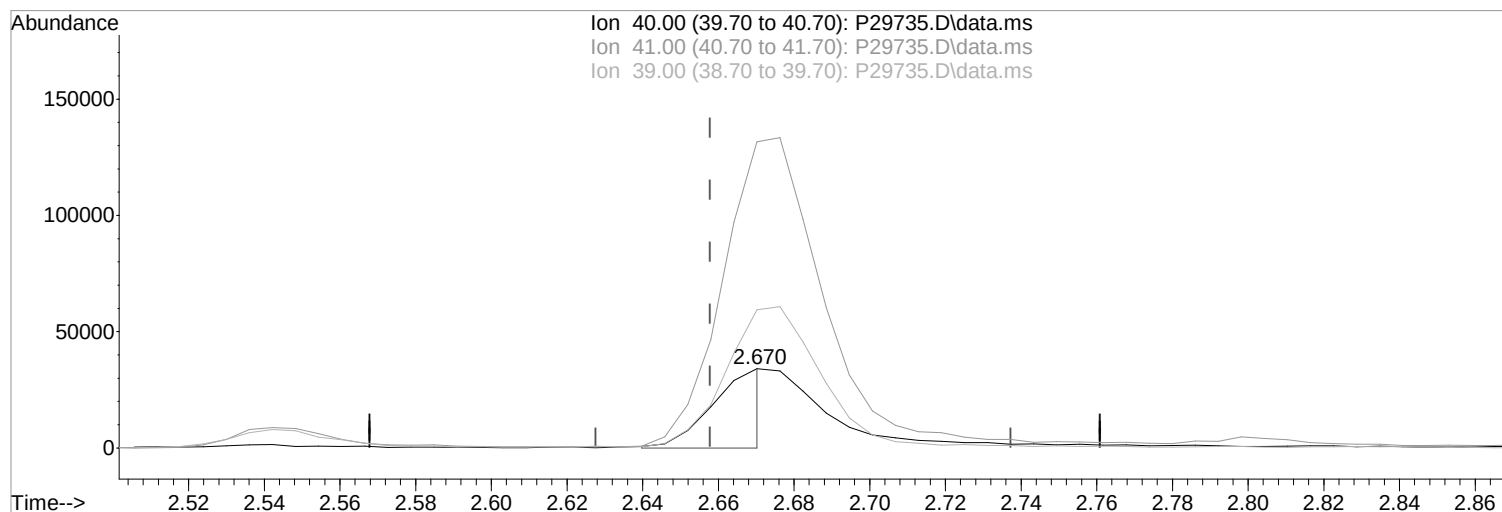
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	39864	4.96	ppb	95
106) 1,4-Dclbenz	11.858	146	40553	4.93	ppb	95
107) 2,4-DCBTF	11.912	214	18477	4.90	ppb	91
108) 2,5-DCBTF	11.955	214	20656	4.92	ppb	97
109) n-Butylbenzene	12.150	91	75622	5.20	ppb	96
110) 1,2-Dclbenz	12.162	146	40816	5.13	ppb	94
111) 1,2-Dibromo-3-chloropr...	12.796	157	5409	4.29	ppb	89
112) Trielution Dichlorotol...	12.900	125	111013	15.26	ppb	96
113) 1,3,5 Trichlorobenzene	12.949	180	29013	4.87	ppb	# 94
114) Coelution Dichlorotoluene	13.229	125	84438	10.36	ppb	97
115) 1,2,4-Tcbenzene	13.437	180	29801	4.86	ppb	95
116) Hexachlorobt	13.565	225	12514	5.10	ppb	85
117) Naphthalen	13.632	128	106004	5.50	ppb	98
118) 1,2,3-Tclbenzene	13.815	180	29631	4.90	ppb	96
119) 2,4,5-Trichlorotoluene	14.400	159	23217	5.03	ppb	92
120) 2,3,6-Trichlorotoluene	14.479	159	25129	5.27	ppb	95

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

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29735.D
Acq On : 11 Sep 2019 5:00 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:33 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29735.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 83.25 ppb m

response 32923

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	386.47#
39.00	137.60	174.50#
0.00	0.00	0.00

Manual Integration:

After

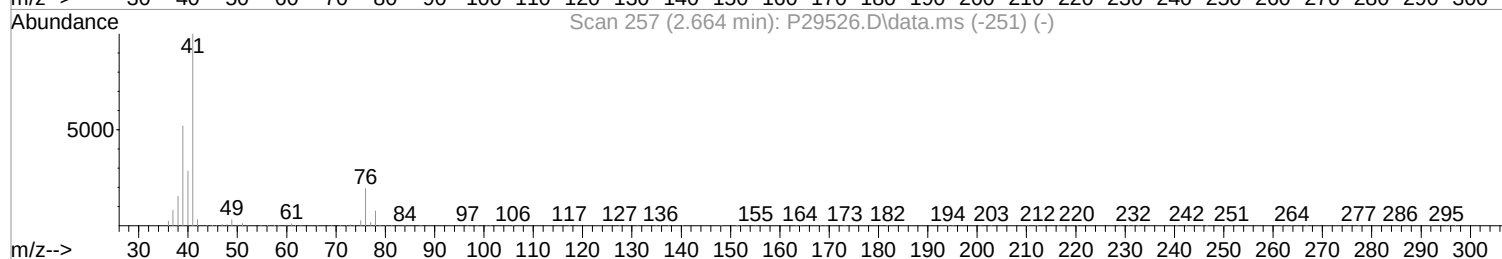
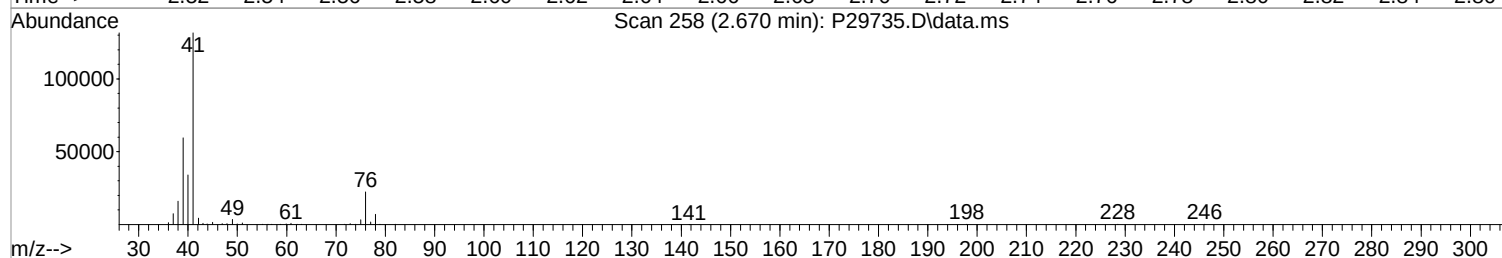
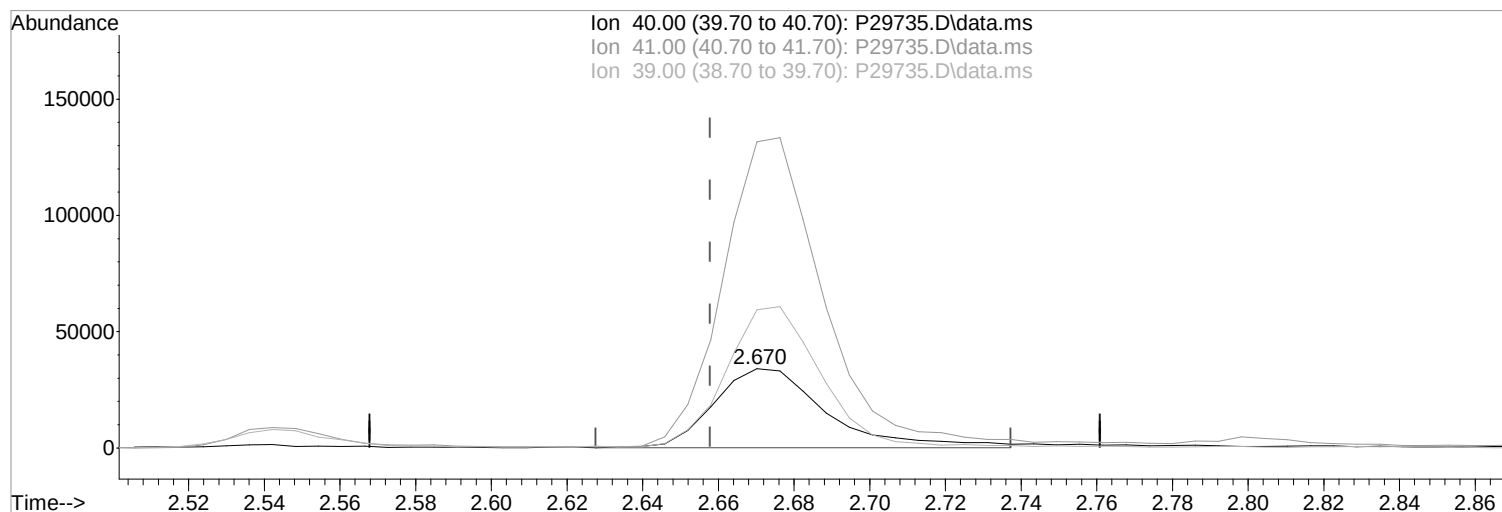
Poor integration.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29735.D
Acq On : 11 Sep 2019 5:00 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:33 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29735.D\data.ms

(19) Acetonitrile

Manual Integration:

2.670min (+0.012) 177.59 ppb

Before

response 70228

Ion	Exp%	Act%

09/12/19

40.00	100	100

41.00	334.20	386.47#

39.00	137.60	174.50#

0.00	0.00	0.00

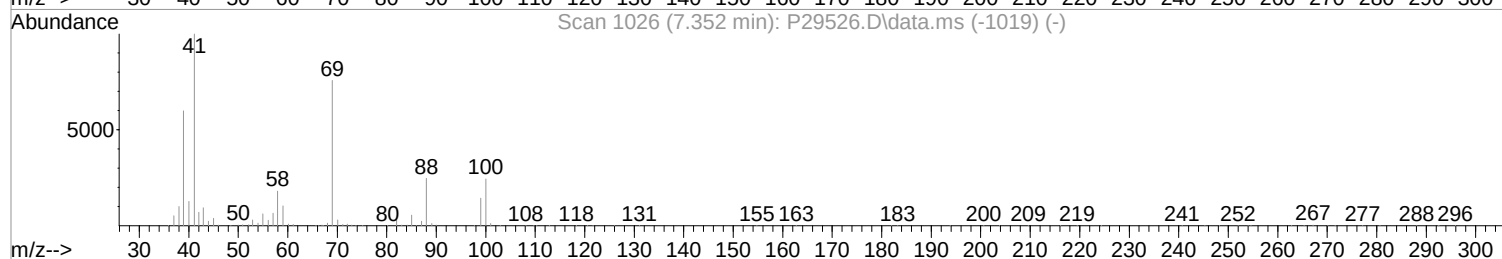
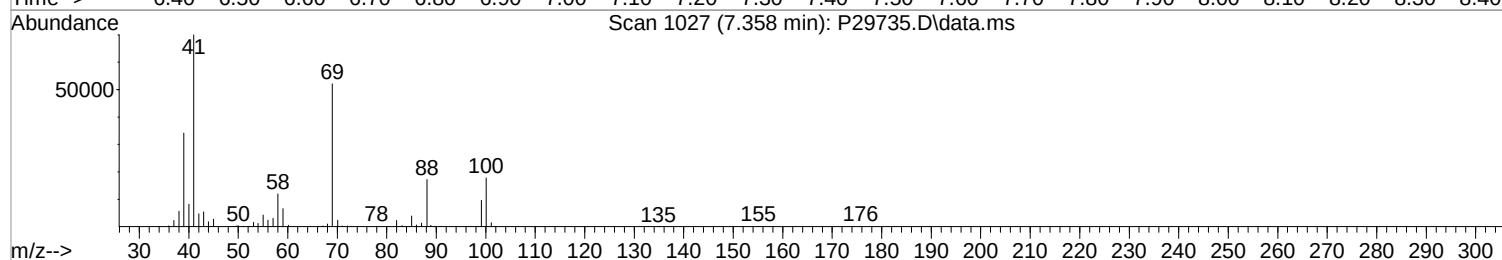
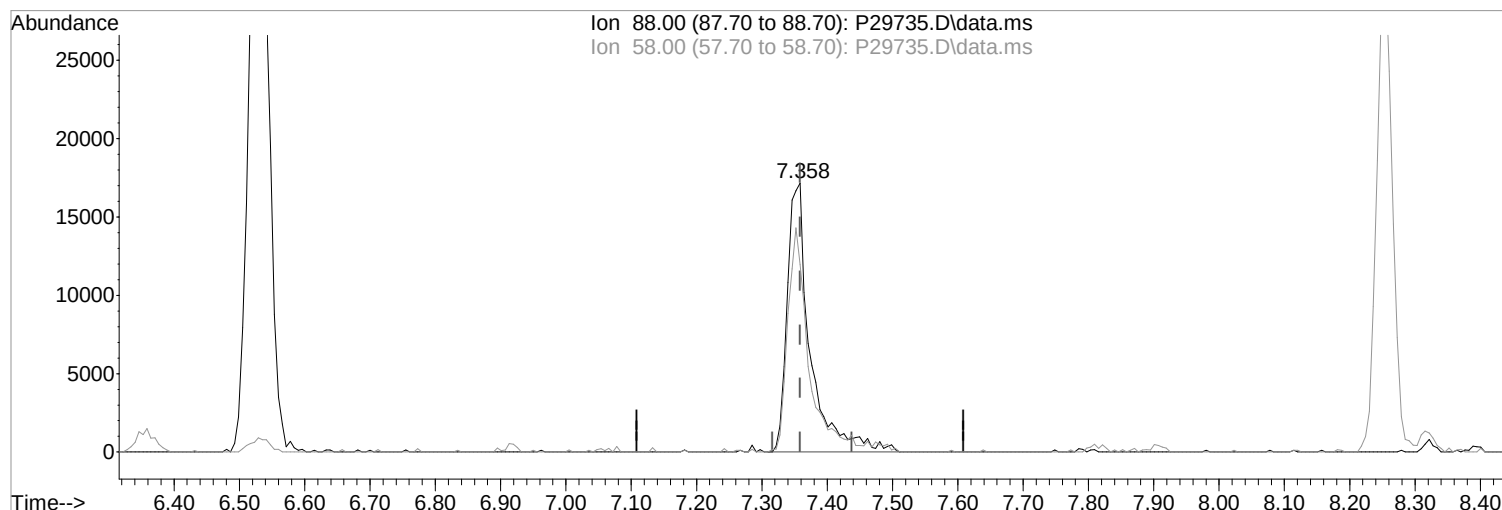
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29735.D
Acq On : 11 Sep 2019 5:00 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 11 17:20:57 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Wed Sep 11 16:56:27 2019
Response via : Initial Calibration



TIC: P29735.D\data.ms

(58) 1,4-Dioxane

7.358min (+0.000) 443.88 ppb m

response 41982

Ion	Exp%	Act%
88.00	100	100
58.00	72.10	69.64
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

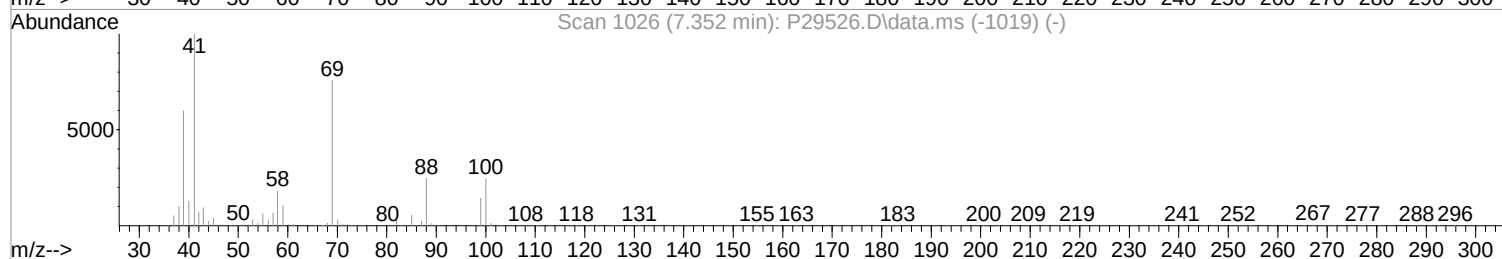
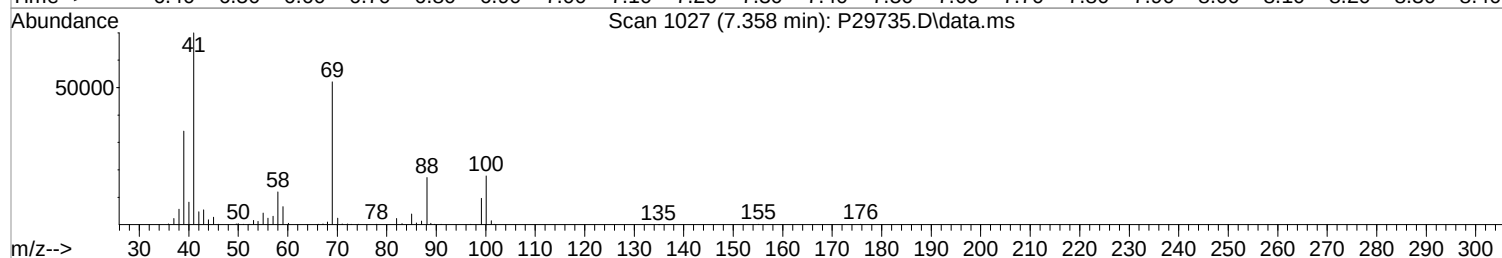
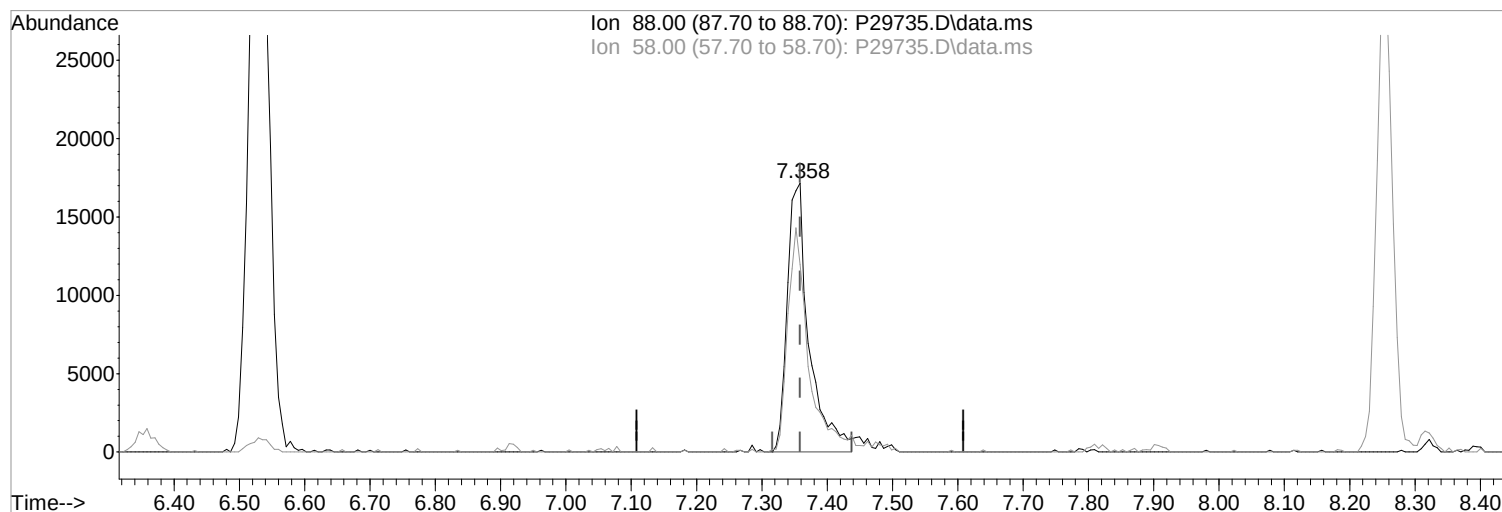
Poor integration.

09/11/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29735.D
Acq On : 11 Sep 2019 5:00 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 11 17:20:57 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Wed Sep 11 16:56:27 2019
Response via : Initial Calibration



TIC: P29735.D\data.ms

(58) 1,4-Dioxane

Manual Integration:

7.358min (+0.000) 421.76 ppb

Before

response 39890

Ion	Exp%	Act%
88.00	100	100
58.00	72.10	69.64
0.00	0.00	0.00
0.00	0.00	0.00

09/11/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29735.D
 Acq On : 11 Sep 2019 5:00 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:44:32 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	317354	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	537506	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	469086	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	248315	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	51567	18.10	ppb	0.01
Spiked Amount	50.000	Range	89 - 119	Recovery	=	36.20%#
48) surr1,1,2-dichloroetha...	5.859	65	70941	18.00	ppb	0.01
Spiked Amount	50.000	Range	73 - 125	Recovery	=	36.00%#
65) SURR3,Toluene-d8	8.322	98	255173	19.03	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	38.06%#
70) SURR2,BFB	10.870	95	96353	18.47	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	36.94%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.201	85	89406	22.79	ppb	98
3) Chloromethane	1.329	50	122906	20.34	ppb	95
4) Vinyl Chloride	1.402	62	120753	21.41	ppb	98
5) Bromomethane	1.634	94	52501	17.15	ppb	100
6) Chloroethane	1.713	64	70559	20.77	ppb	98
7) Freon 21	1.865	67	131742	20.95	ppb	100
8) Trichlorofluoromethane	1.908	101	97211	21.25	ppb	95
9) Diethyl Ether	2.146	59	84878	21.05	ppb	96
10) Freon 123a	2.152	67	89375	20.33	ppb	100
11) Freon 123	2.207	83	98697	20.36	ppb	98
12) Acrolein	2.262	56	114158	101.65	ppb	96
13) 1,1-Dicethene	2.335	96	63876	20.57	ppb	95
14) Freon 113	2.335	101	62246	20.62	ppb	99
15) Acetone	2.408	43	53418	20.68	ppb	95
16) 2-Propanol	2.542	45	230110	391.81	ppb	96
17) Iodomethane	2.469	142	74189	20.75	ppb	100
18) Carbon Disulfide	2.524	76	192186	20.66	ppb	100
19) Acetonitrile	2.670	40	32923m	83.25	ppb	
20) Allyl Chloride	2.676	76	40803	23.02	ppb	# 90
21) Methyl Acetate	2.713	43	108490	21.20	ppb	96
22) Methylene Chloride	2.798	84	80354	19.87	ppb	92
23) TBA	2.957	59	354620	407.90	ppb	98
24) Acrylonitrile	3.085	53	281621	106.95	ppb	99
25) Methyl-t-Butyl Ether	3.097	73	282084	21.59	ppb	97
26) trans-1,2-Dichloroethene	3.085	96	70745	20.83	ppb	89
28) 1,1-Dicethane	3.597	63	149744	21.47	ppb	98
29) Vinyl Acetate	3.694	86	17336	22.78	ppb	97
30) DIPE	3.707	45	327561	21.57	ppb	94
31) 2-Chloro-1,3-Butadiene	3.713	53	119044	21.11	ppb	91
32) ETBE	4.243	59	285452	20.88	ppb	97
33) 2,2-Dichloropropane	4.432	77	105202	20.58	ppb	96
34) cis-1,2-Dichloroethene	4.444	96	81603	21.15	ppb	88
35) 2-Butanone	4.536	43	73905	20.49	ppb	94
36) Propionitrile	4.645	54	116379	103.99	ppb	100
37) Bromochloromethane	4.859	130	45334	19.81	ppb	94
38) Methacrylonitrile	4.901	67	52864	19.97	ppb	96
39) Tetrahydrofuran	4.969	42	54413	18.31	ppb	91
40) Chloroform	5.036	83	122909	20.00	ppb	99
41) 1,1,1-Trichloroethane	5.310	97	102067	20.83	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29735.D
 Acq On : 11 Sep 2019 5:00 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : WATER ICAL
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:44:32 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	267274	21.22	ppb	94
44) Cyclohexane	5.371	41	90924	21.18	ppb	84
46) Carbontetrachloride	5.572	117	72254	19.43	ppb	91
47) 1,1-Dichloropropene	5.590	75	103006	19.81	ppb	99
49) Benzene	5.913	78	331895	20.54	ppb	97
50) 1,2-Dichloroethane	5.974	62	109411	19.92	ppb	97
51) Iso-Butyl Alcohol	5.968	43	177489	385.76	ppb	96
52) n-Heptane	6.359	43	121430	20.09	ppb	93
53) 1-Butanol	6.913	56	263125	997.48	ppb	97
54) Trichloroethene	6.846	130	72390	20.15	ppb	93
55) Methylcyclohexane	7.060	55	118721	20.50	ppb	93
56) 1,2-Dicloropropane	7.139	63	92042	20.64	ppb	93
57) Dibromomethane	7.279	93	44313	20.04	ppb	91
58) 1,4-Dioxane	7.358	88	41207	400.87	ppb	93
59) Methyl Methacrylate	7.358	69	87638	21.11	ppb	99
60) Bromodichloromethane	7.505	83	86910	20.25	ppb	97
61) 2-Nitropropane	7.809	41	21115	31.14	ppb	94
62) 2-Chloroethylvinyl Ether	7.907	63	62335	20.61	ppb	98
63) cis-1,3-Dichloropropene	8.035	75	126927	19.91	ppb	98
64) 4-Methyl-2-pentanone	8.254	43	142152	20.60	ppb	98
66) Toluene	8.389	91	339286	20.76	ppb	98
67) trans-1,3-Dichloropropene	8.675	75	121280	20.68	ppb	94
68) Ethyl Methacrylate	8.803	69	151408	20.86	ppb	94
69) 1,1,2-Trichloroethane	8.864	97	76523	21.09	ppb	95
72) Tetrachloroethene	8.968	164	56102	19.83	ppb	92
73) 2-Hexanone	9.151	43	106930	20.48	ppb	98
74) 1,3-Dichloropropane	9.029	76	144206	20.50	ppb	97
75) Dibromochloromethane	9.254	129	56899	19.58	ppb	95
76) N-Butyl Acetate	9.297	43	219936	22.10	ppb	95
77) 1,2-Dibromoethane	9.346	107	74904	20.44	ppb	93
78) Chlorobenzene	9.827	112	209465	20.24	ppb	96
79) 3-CBTF	9.846	180	107255	20.11	ppb	96
80) 4-CBTF	9.894	180	98961	20.59	ppb	95
81) 1,1,1,2-Tetrachloroethane	9.919	131	63627	20.63	ppb	95
82) Ethylbenzene	9.943	106	116671	20.76	ppb	99
83) (m+p)Xylene	10.053	106	283811	41.81	ppb	91
84) o-Xylene	10.413	106	142100	20.57	ppb	99
85) Styrene	10.425	104	242594	21.21	ppb	98
87) Bromoform	10.589	173	34707	19.94	ppb	87
88) 2-CBTF	10.663	180	104170	20.10	ppb	99
89) Isopropylbenzene	10.742	105	374127	22.08	ppb	98
90) Cyclohexanone	10.833	55	300785	415.31	ppb	97
91) trans-1,4-Dichloro-2-B...	11.065	53	40265	21.54	ppb	90
92) 1,1,2,2-Tetrachloroethane	11.016	83	120615	21.37	ppb	94
93) Bromobenzene	10.992	156	84753	20.30	ppb	97
94) 1,2,3-Trichloropropane	11.047	110	36008	19.38	ppb	95
95) n-Propylbenzene	11.095	91	441498	21.78	ppb	99
96) 2-Chlorotoluene	11.162	91	268492	20.96	ppb	98
97) 3-Chlorotoluene	11.217	91	279003	21.47	ppb	97
98) 4-Chlorotoluene	11.254	91	294671	21.33	ppb	98
99) 1,3,5-Trimethylbenzene	11.248	105	303461	21.50	ppb	95
100) tert-Butylbenzene	11.516	119	263964	21.25	ppb	98
101) 1,2,4-Trimethylbenzene	11.559	105	307794	21.97	ppb	97
102) 3,4-DCBTF	11.620	214	88090	20.61	ppb	100
103) sec-Butylbenzene	11.699	105	395554	22.01	ppb	100
104) p-Isopropyltoluene	11.821	119	334791	21.76	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29735.D
Acq On : 11 Sep 2019 5:00 pm
Operator : K.Ruest
Sample : 20ppb
Misc : WATER ICAL
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

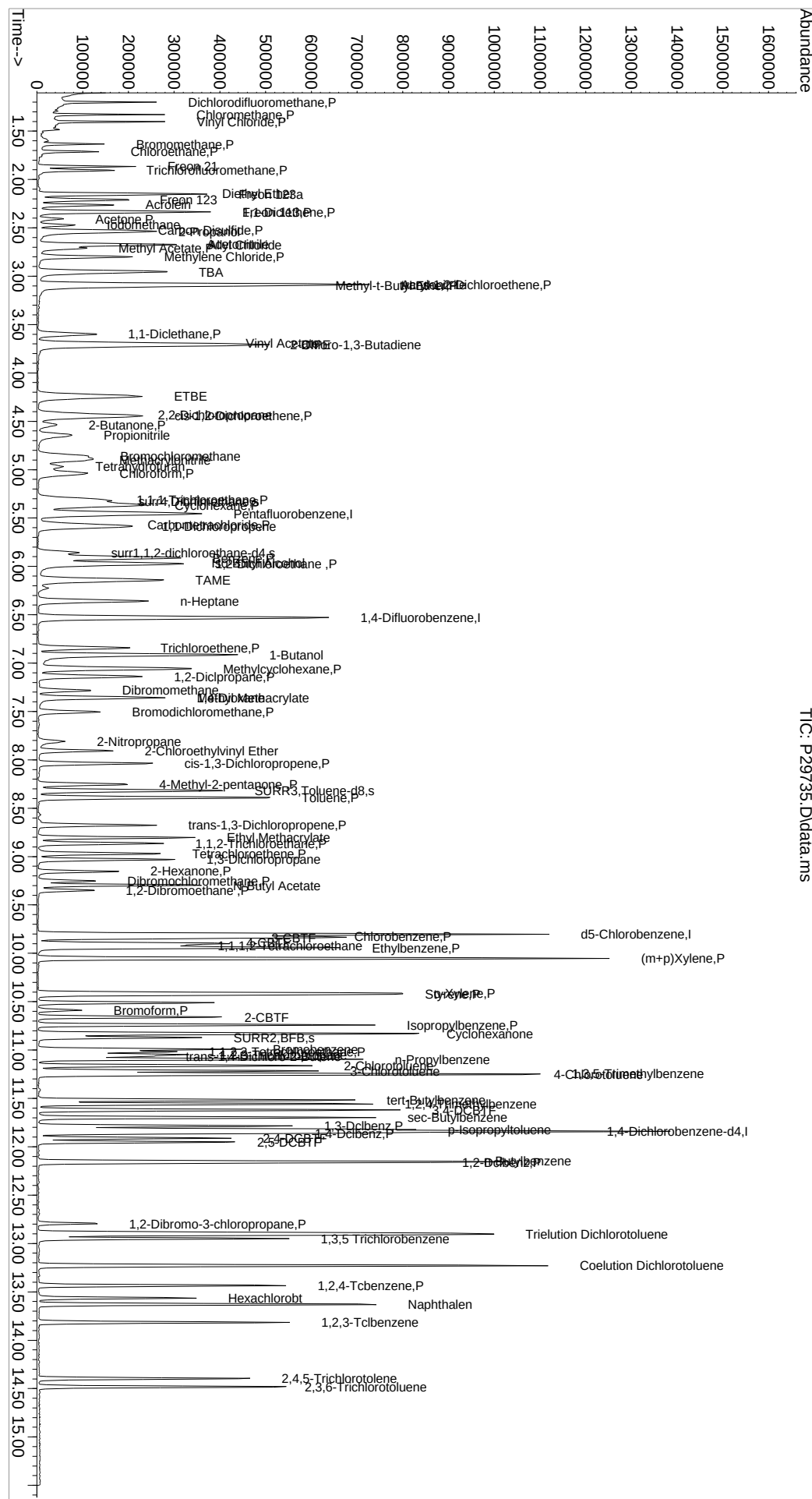
Quant Time: Sep 12 09:44:32 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	168242	20.23	ppb	99
106) 1,4-Dclbenz	11.864	146	171462	20.14	ppb	98
107) 2,4-DCBTF	11.912	214	76685	19.66	ppb	98
108) 2,5-DCBTF	11.955	214	87438	20.16	ppb	98
109) n-Butylbenzene	12.150	91	321739	21.38	ppb	99
110) 1,2-Dclbenz	12.162	146	167399	20.35	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.796	157	25610	19.64	ppb	94
112) Trielution Dichlorotol...	12.906	125	475017	63.14	ppb	99
113) 1,3,5 Trichlorobenzene	12.949	180	125844	20.42	ppb	96
114) Coelution Dichlorotoluene	13.229	125	365691	43.39	ppb	96
115) 1,2,4-Tcbenzene	13.436	180	125674	19.83	ppb	97
116) Hexachlorobt	13.564	225	48698	19.19	ppb	94
117) Naphthalen	13.631	128	454677	22.81	ppb	98
118) 1,2,3-Tclbenzene	13.814	180	125404	20.04	ppb	99
119) 2,4,5-Trichlorotoluene	14.394	159	95140	19.94	ppb	97
120) 2,3,6-Trichlorotoluene	14.485	159	101485	20.57	ppb	97

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

1st 09/12/19
 2nd 09/12/19
 Data Path : I:\ACQDATA\msvoa12\Data\091119\
 Data File : P29735.D
 Acq On : 11 Sep 2019 5:00 pm
 Operator : K.Ruest
 Sample : 20ppb
 PALS Vial : 5 Sample Multiplier: 1
 Inst : MSVOA-12

Quant Time: Sep 12 09:44:32 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration



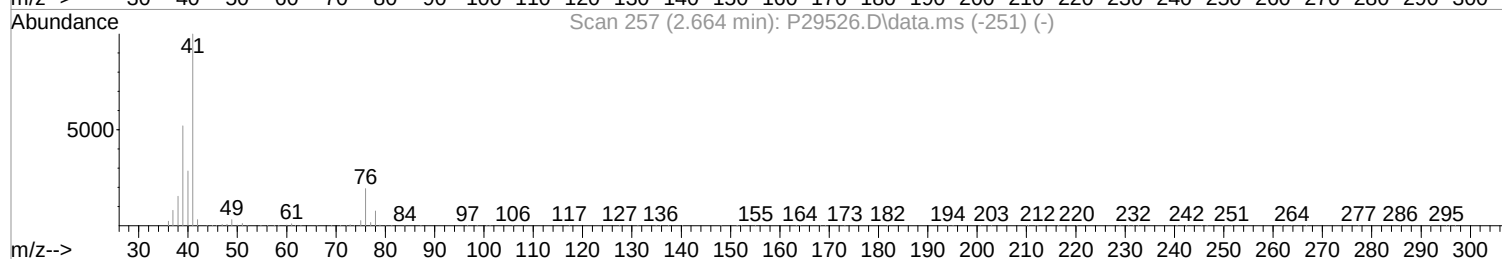
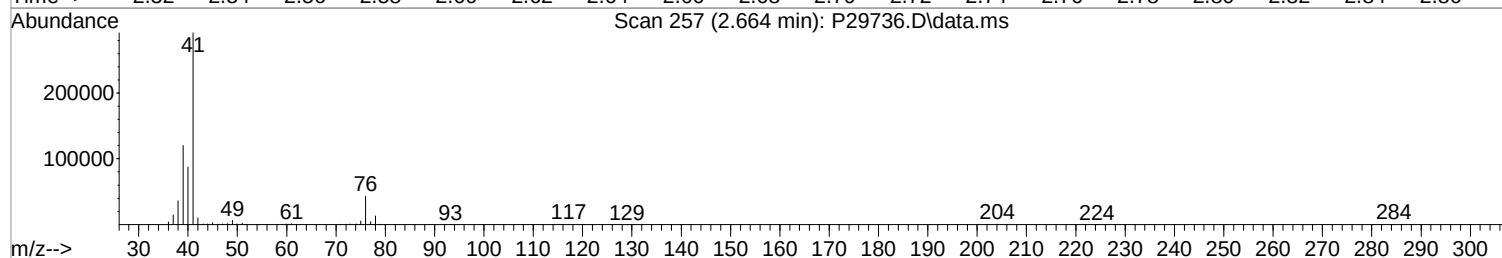
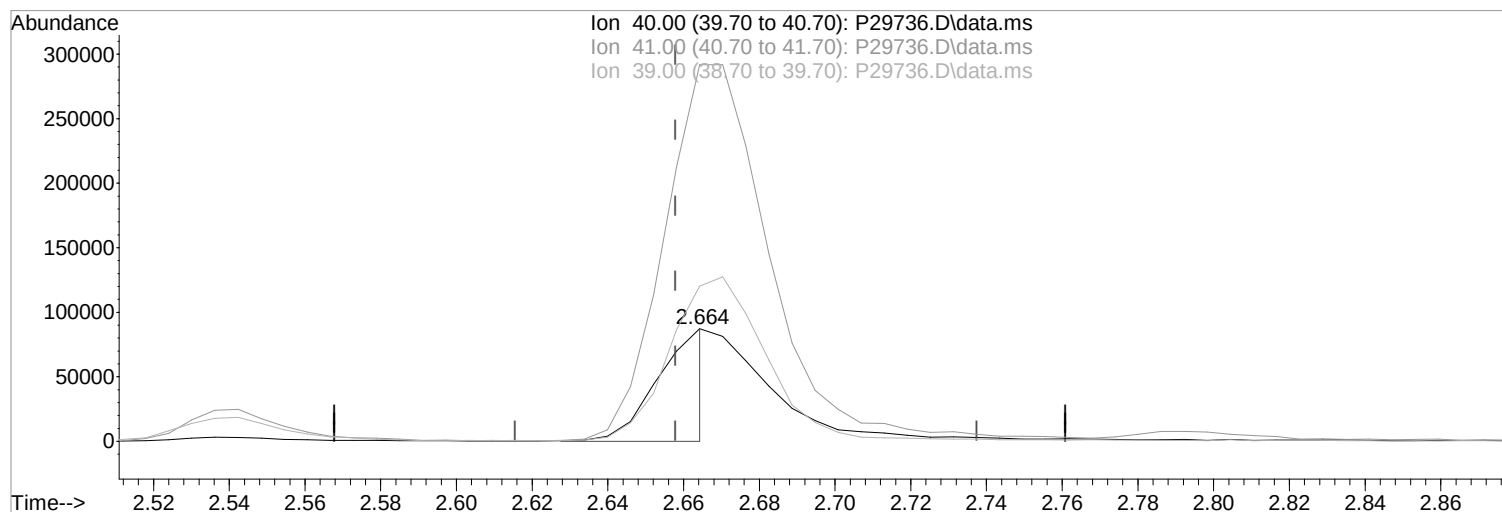
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29736.D
Acq On : 11 Sep 2019 5:22 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:36 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29736.D\data.ms

(19) Acetonitrile

2.664min (+0.006) 200.48 ppb m

response 81057

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	334.16
39.00	137.60	137.61
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

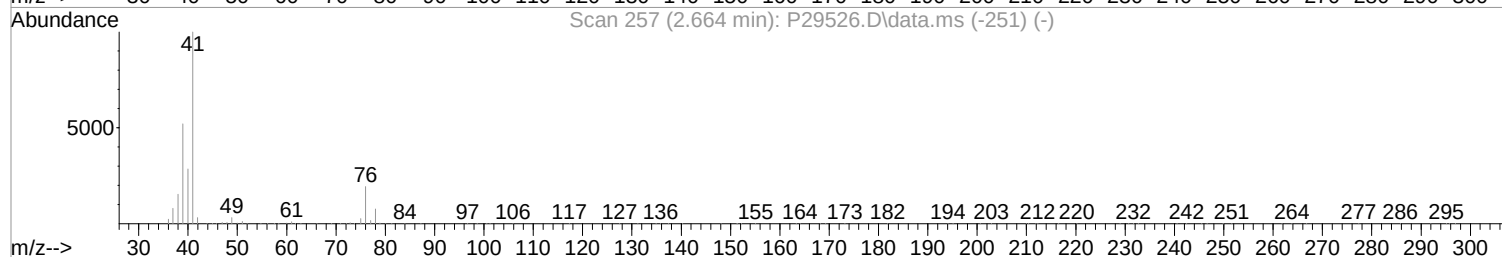
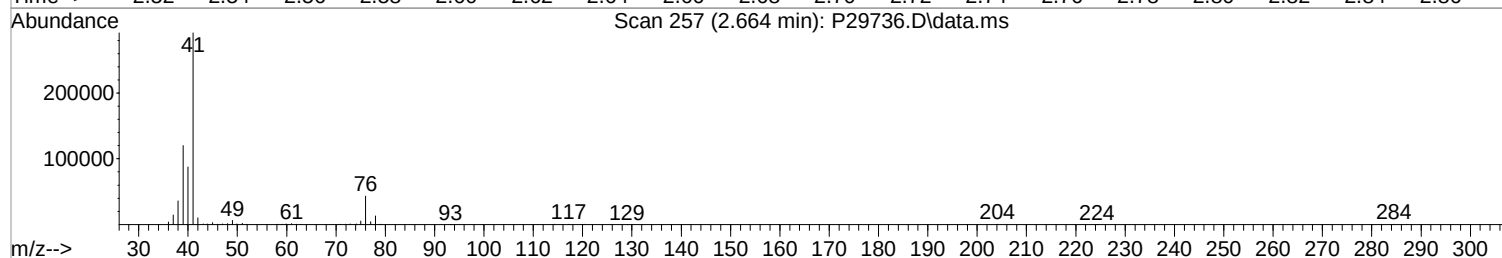
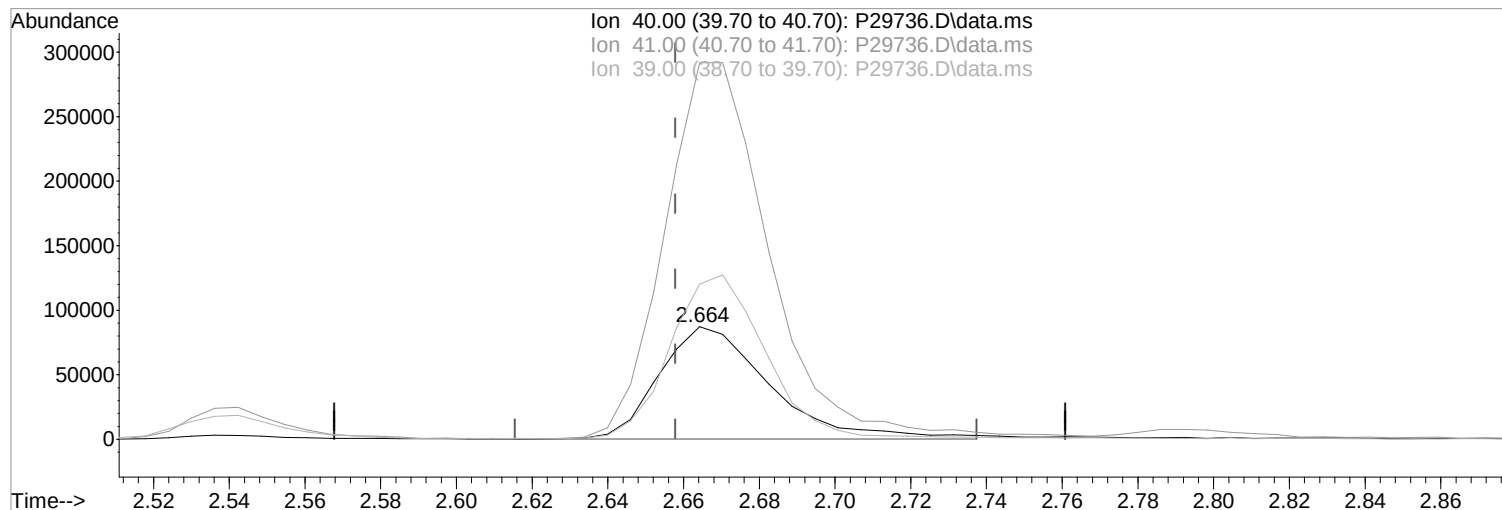
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29736.D
Acq On : 11 Sep 2019 5:22 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:36 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29736.D\data.ms

(19) Acetonitrile

Manual Integration:

2.664min (+0.006) 437.98 ppb

Before

response 177083

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	334.16
39.00	137.60	137.61
0.00	0.00	0.00

09/12/19

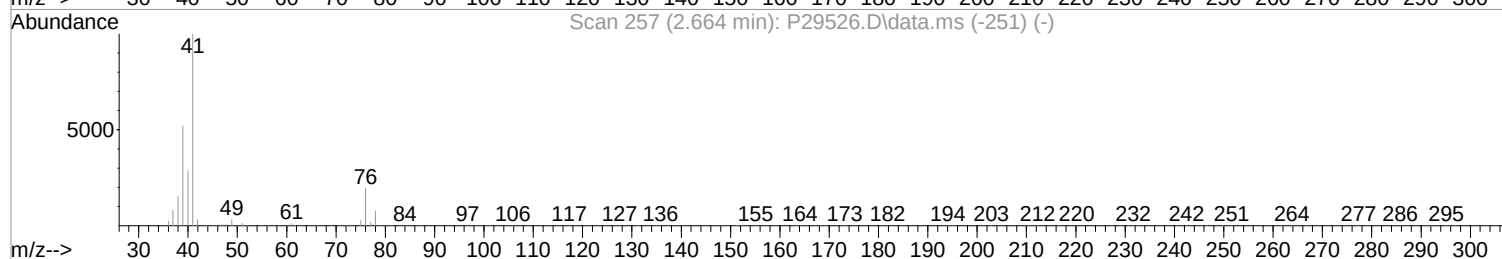
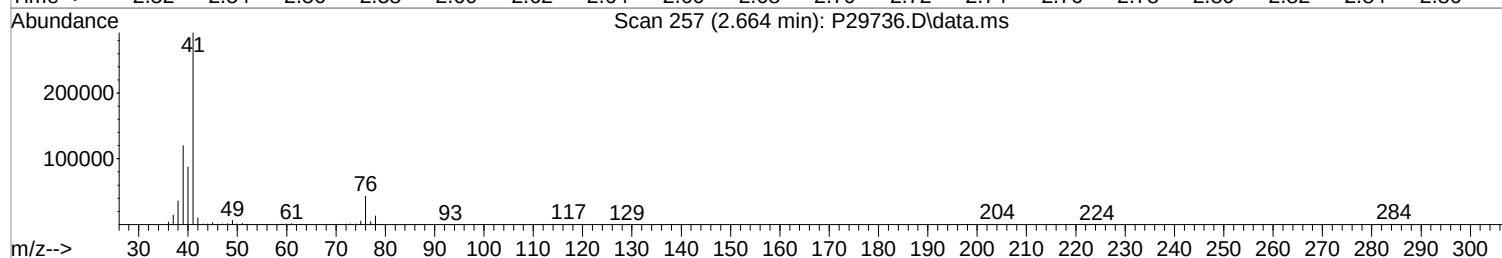
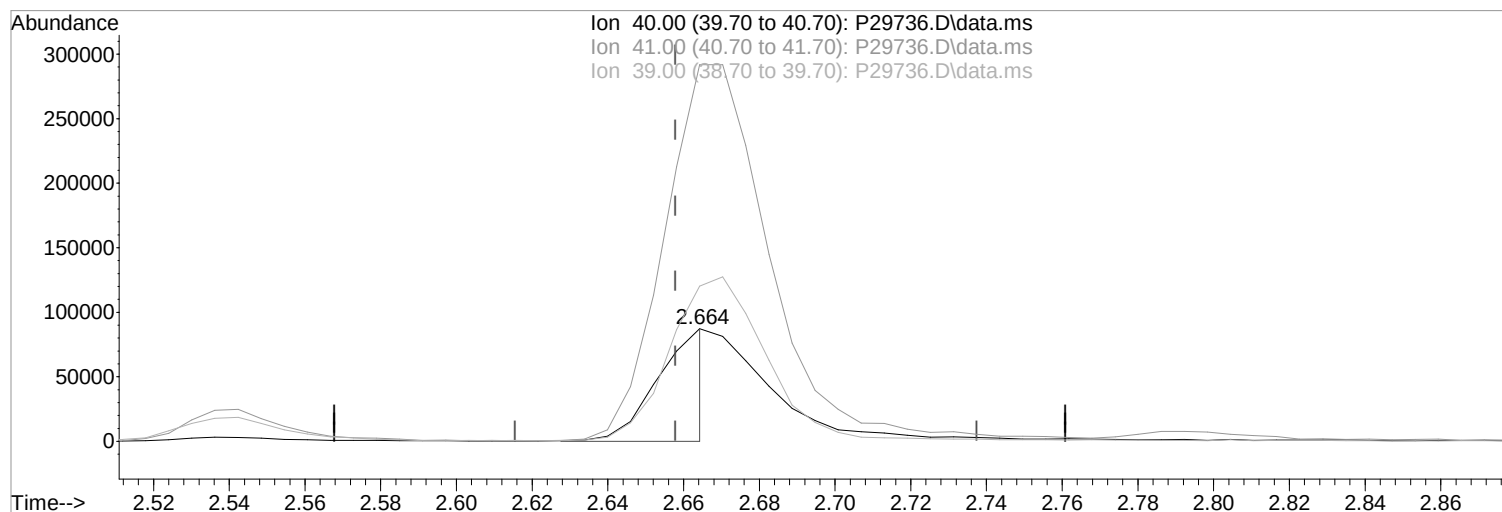
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29736.D
Acq On : 11 Sep 2019 5:22 pm
Operator : K.Ruest
Sample : 50ppb
Misc : WATER ICAL
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:36 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29736.D\data.ms

(19) Acetonitrile

2.664min (+0.006) 200.48 ppb m

response 81057

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	334.16
39.00	137.60	137.61
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29736.D
 Acq On : 11 Sep 2019 5:22 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:46:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.450	168	324461	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	532634	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	479166	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	251706	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	141350	50.07	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.14%	
48) surr1,1,2-dichloroetha...	5.853	65	199899	51.18	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	102.36%	
65) SURR3,Toluene-d8	8.316	98	672653	50.62	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.24%	
70) SURR2,BFB	10.870	95	256024	49.52	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.04%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.195	85	215531	53.74	ppb	100
3) Chloromethane	1.323	50	302885	49.03	ppb	100
4) Vinyl Chloride	1.396	62	293076	50.83	ppb	100
5) Bromomethane	1.622	94	133731	42.72	ppb	100
6) Chloroethane	1.701	64	171429	49.37	ppb	100
7) Freon 21	1.860	67	307916	47.90	ppb	100
8) Trichlorofluoromethane	1.902	101	244119	52.20	ppb	100
9) Diethyl Ether	2.140	59	207829	50.42	ppb	100
10) Freon 123a	2.152	67	208671	46.43	ppb	100
11) Freon 123	2.207	83	230973	46.60	ppb	100
12) Acrolein	2.262	56	285148	248.35	ppb	100
13) 1,1-Dicethene	2.329	96	158151	49.82	ppb	100
14) Freon 113	2.329	101	151216	49.00	ppb	100
15) Acetone	2.402	43	127403	48.25	ppb	100
16) 2-Propanol	2.542	45	594430	989.98	ppb	100
17) Iodomethane	2.463	142	209156	57.22	ppb	100
18) Carbon Disulfide	2.518	76	480659	50.54	ppb	100
19) Acetonitrile	2.664	40	81057m	200.48	ppb	
20) Allyl Chloride	2.670	76	85919	47.41	ppb	100
21) Methyl Acetate	2.707	43	255363	48.80	ppb	100
22) Methylene Chloride	2.792	84	184592	44.65	ppb	100
23) TBA	2.951	59	897097	1009.27	ppb	100
24) Acrylonitrile	3.079	53	699525	259.83	ppb	100
25) Methyl-t-Butyl Ether	3.091	73	671020	50.24	ppb	100
26) trans-1,2-Dichloroethene	3.079	96	169347	48.76	ppb	100
28) 1,1-Dicethane	3.591	63	358183	50.24	ppb	100
29) Vinyl Acetate	3.695	86	42082	54.09	ppb	100
30) DIPE	3.701	45	774996	49.92	ppb	100
31) 2-Chloro-1,3-Butadiene	3.707	53	297783	51.65	ppb	100
32) ETBE	4.237	59	693264	49.60	ppb	100
33) 2,2-Dichloropropane	4.426	77	266861	51.05	ppb	100
34) cis-1,2-Dichloroethene	4.444	96	197952	50.17	ppb	100
35) 2-Butanone	4.530	43	178893	48.50	ppb	100
36) Propionitrile	4.633	54	293172	256.23	ppb	100
37) Bromochloromethane	4.859	130	113316	48.42	ppb	100
38) Methacrylonitrile	4.889	67	136177	50.33	ppb	100
39) Tetrahydrofuran	4.963	42	128648	42.35	ppb	100
40) Chloroform	5.036	83	306331	48.75	ppb	100
41) 1,1,1-Trichloroethane	5.304	97	244936	48.89	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29736.D
 Acq On : 11 Sep 2019 5:22 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:46:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	651418	50.58	ppb	100
44) Cyclohexane	5.359	41	205615	48.34	ppb	100
46) Carbontetrachloride	5.566	117	183716	49.86	ppb	100
47) 1,1-Dichloropropene	5.584	75	262035	50.85	ppb	100
49) Benzene	5.908	78	808808	50.51	ppb	100
50) 1,2-Dichloroethane	5.968	62	271114	49.81	ppb	100
51) Iso-Butyl Alcohol	5.968	43	447807	982.19	ppb	100
52) n-Heptane	6.353	43	300090	50.10	ppb	100
53) 1-Butanol	6.913	56	693201	2651.88	ppb	100
54) Trichloroethene	6.840	130	182470	51.25	ppb	100
55) Methylcyclohexane	7.054	55	277166	48.31	ppb	100
56) 1,2-Dichloropropane	7.139	63	222619	50.38	ppb	100
57) Dibromomethane	7.279	93	111821	51.02	ppb	100
58) 1,4-Dioxane	7.346	88	97730	959.43	ppb	100
59) Methyl Methacrylate	7.358	69	222587	54.11	ppb	100
60) Bromodichloromethane	7.505	83	217450	51.14	ppb	100
61) 2-Nitropropane	7.803	41	58774	87.47	ppb	100
62) 2-Chloroethylvinyl Ether	7.907	63	160242	53.48	ppb	100
63) cis-1,3-Dichloropropene	8.035	75	331394	52.46	ppb	100
64) 4-Methyl-2-pentanone	8.249	43	347144	50.77	ppb	100
66) Toluene	8.389	91	834948	51.55	ppb	100
67) trans-1,3-Dichloropropene	8.675	75	301624	51.89	ppb	100
68) Ethyl Methacrylate	8.803	69	380128	52.85	ppb	100
69) 1,1,2-Trichloroethane	8.864	97	187474	52.14	ppb	100
72) Tetrachloroethene	8.968	164	136413	47.21	ppb	100
73) 2-Hexanone	9.151	43	266356	49.93	ppb	100
74) 1,3-Dichloropropane	9.029	76	358926	49.96	ppb	100
75) Dibromochloromethane	9.254	129	147171	49.58	ppb	100
76) N-Butyl Acetate	9.291	43	535921	52.72	ppb	100
77) 1,2-Dibromoethane	9.352	107	185929	49.66	ppb	100
78) Chlorobenzene	9.827	112	522906	49.46	ppb	100
79) 3-CBTF	9.846	180	258339	47.43	ppb	100
80) 4-CBTF	9.901	180	232017	47.25	ppb	100
81) 1,1,1,2-Tetrachloroethane	9.919	131	160264	50.87	ppb	100
82) Ethylbenzene	9.943	106	284740	49.61	ppb	100
83) (m+p)Xylene	10.053	106	711205	102.57	ppb	100
84) o-Xylene	10.413	106	347592	49.26	ppb	100
85) Styrene	10.425	104	609331	52.15	ppb	100
87) Bromoform	10.590	173	89121	50.52	ppb	100
88) 2-CBTF	10.663	180	256639	48.85	ppb	100
89) Isopropylbenzene	10.742	105	903066	52.58	ppb	100
90) Cyclohexanone	10.827	55	736250	1002.90	ppb	100
91) trans-1,4-Dichloro-2-B...	11.065	53	94428	49.83	ppb	100
92) 1,1,2,2-Tetrachloroethane	11.016	83	302363	52.85	ppb	100
93) Bromobenzene	10.992	156	207883	49.13	ppb	100
94) 1,2,3-Trichloropropane	11.047	110	90282	47.94	ppb	100
95) n-Propylbenzene	11.096	91	1087035	52.89	ppb	100
96) 2-Chlorotoluene	11.163	91	659211	50.76	ppb	100
97) 3-Chlorotoluene	11.217	91	666507	50.60	ppb	100
98) 4-Chlorotoluene	11.254	91	733306	52.37	ppb	100
99) 1,3,5-Trimethylbenzene	11.248	105	753081	52.65	ppb	100
100) tert-Butylbenzene	11.516	119	651836	51.78	ppb	100
101) 1,2,4-Trimethylbenzene	11.559	105	763613	53.77	ppb	100
102) 3,4-DCBTF	11.620	214	206134	47.58	ppb	100
103) sec-Butylbenzene	11.699	105	959593	52.68	ppb	100
104) p-Isopropyltoluene	11.821	119	826547	53.00	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29736.D
 Acq On : 11 Sep 2019 5:22 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : WATER ICAL
 ALS Vial : 6 Sample Multiplier: 1

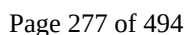
Inst : MSVOA-12

Quant Time: Sep 12 09:46:22 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	414182	49.14	ppb	100
106) 1,4-Dclbenz	11.864	146	425018	49.25	ppb	100
107) 2,4-DCBTF	11.912	214	189727	47.99	ppb	100
108) 2,5-DCBTF	11.955	214	213021	48.44	ppb	100
109) n-Butylbenzene	12.150	91	793099	52.00	ppb	100
110) 1,2-Dclbenz	12.162	146	417731	50.09	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.796	157	67083	50.76	ppb	100
112) Trielution Dichlorotol...	12.906	125	1164285	152.66	ppb	100
113) 1,3,5 Trichlorobenzene	12.949	180	304519	48.75	ppb	100
114) Coelution Dichlorotoluene	13.229	125	867272	101.51	ppb	100
115) 1,2,4-Tcbenzene	13.437	180	314722	49.00	ppb	100
116) Hexachlorobt	13.565	225	126686	49.24	ppb	100
117) Naphthalen	13.632	128	1099005	54.38	ppb	100
118) 1,2,3-Tclbenzene	13.815	180	318665	50.23	ppb	100
119) 2,4,5-Trichlorotoluene	14.400	159	240524	49.74	ppb	100
120) 2,3,6-Trichlorotoluene	14.479	159	249068	49.81	ppb	100

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

Quant Time: Sep 12 09:46:22 2019
Quant Method : I:\ACQDATA\msv0a12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10ML Purge
Quant Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



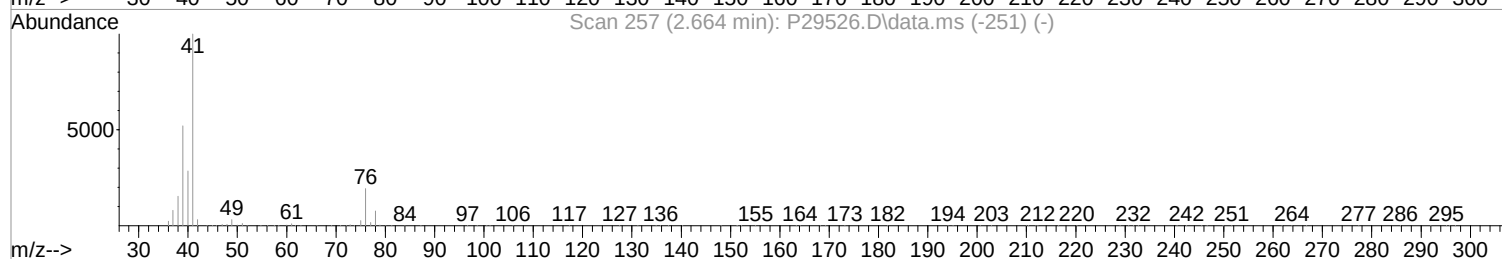
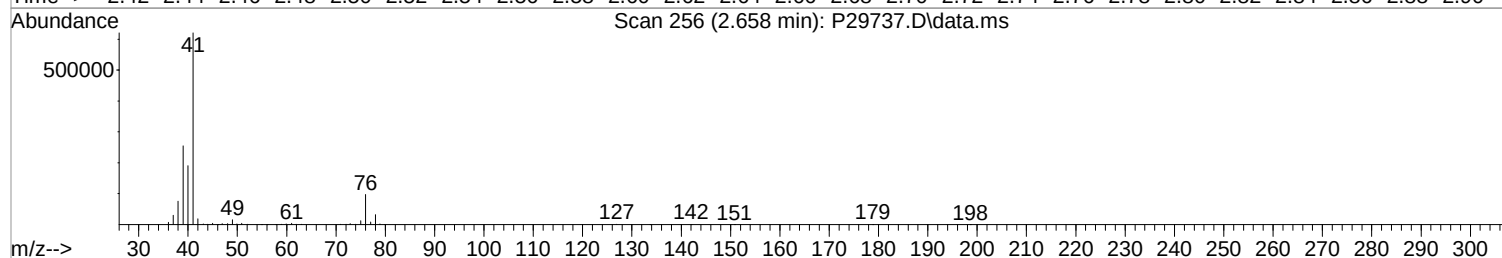
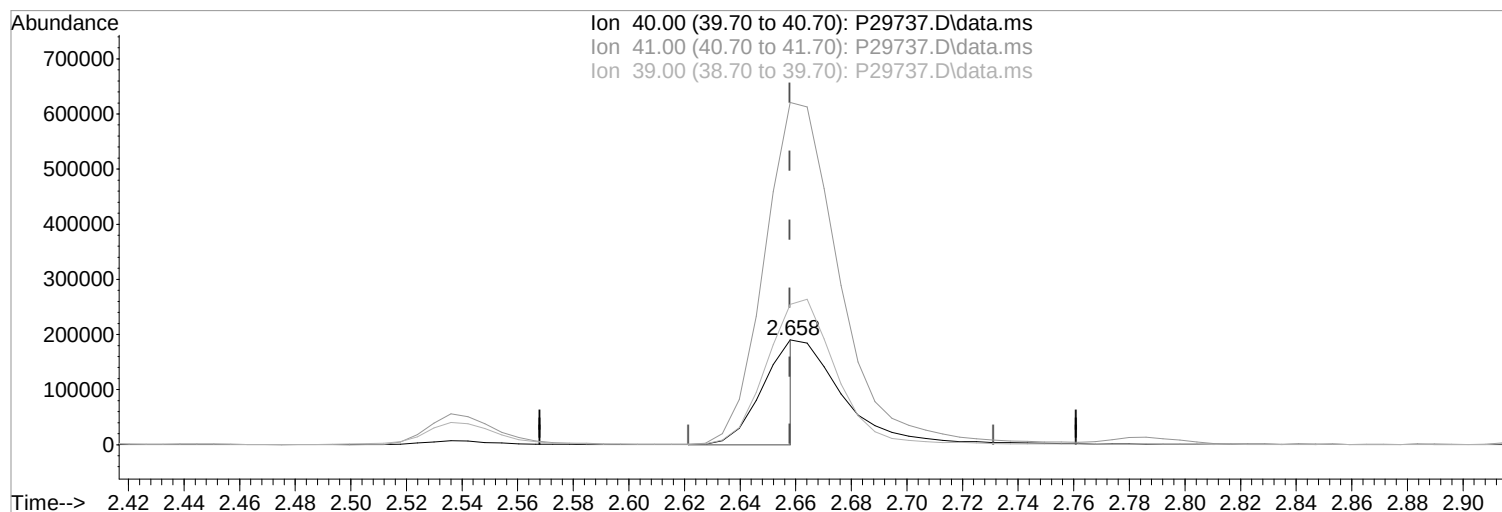
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29737.D
Acq On : 11 Sep 2019 5:44 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:39 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29737.D\data.ms

(19) Acetonitrile

2.658min (+0.000) 405.52 ppb m

response 166334

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	326.51
39.00	137.60	133.88
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

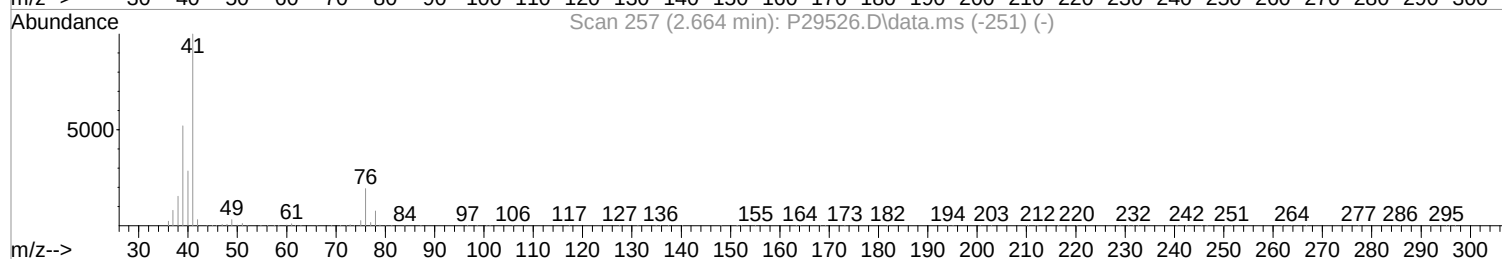
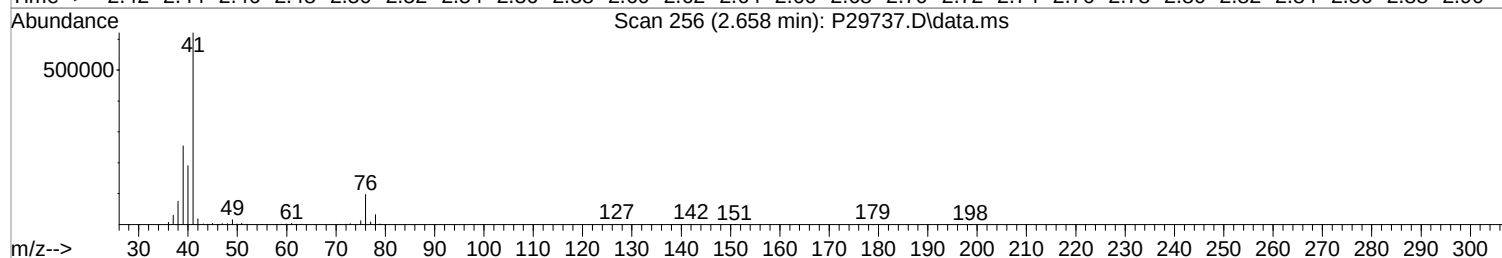
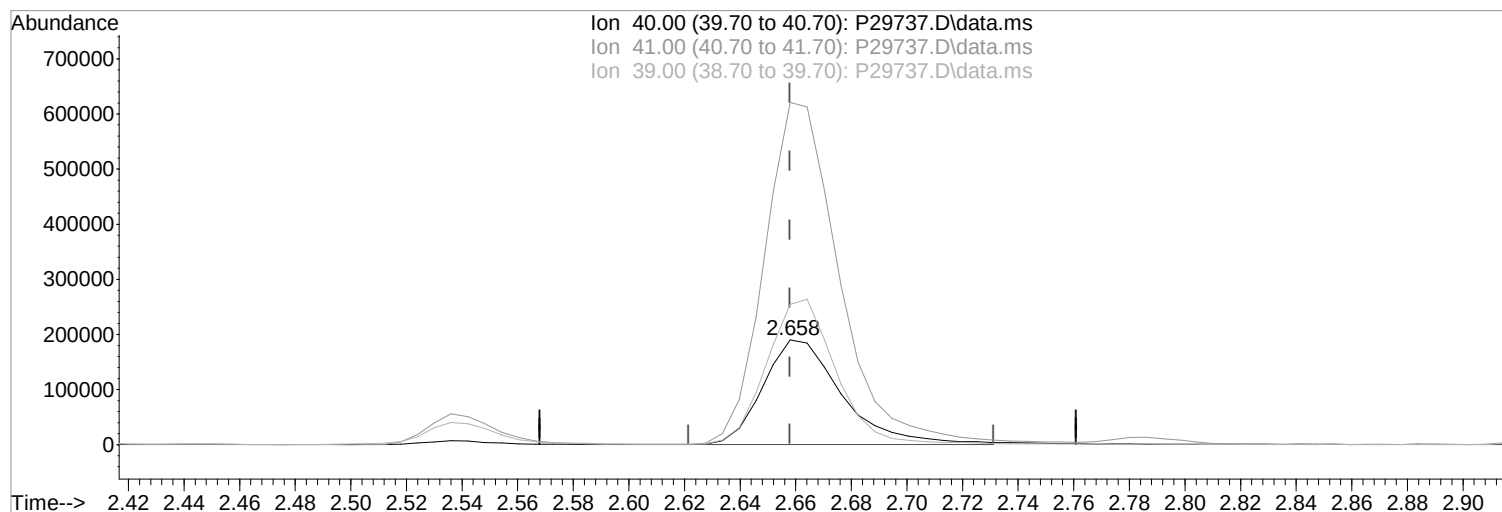
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29737.D
Acq On : 11 Sep 2019 5:44 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:39 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29737.D\data.ms

(19) Acetonitrile

Manual Integration:

2.658min (+0.000) 914.14 ppb

Before

response 374958

Ion Exp% Act%

09/12/19

40.00 100 100

41.00 334.20 326.51

39.00 137.60 133.88

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29737.D
 Acq On : 11 Sep 2019 5:44 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:47:54 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	329161	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	545283	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	487330	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	266768	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	292427	101.19	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	202.38%#	
48) surr1,1,2-dichloroetha...	5.852	65	408205	102.08	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	204.16%#	
65) SURR3,Toluene-d8	8.315	98	1356520	99.71	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	199.42%#	
70) SURR2,BFB	10.870	95	533681	100.82	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	201.64%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.189	85	452520	111.22	ppb	99
3) Chloromethane	1.317	50	623073	99.41	ppb	97
4) Vinyl Chloride	1.390	62	612902	104.77	ppb	98
5) Bromomethane	1.615	94	275242	86.67	ppb	98
6) Chloroethane	1.689	64	346969	98.49	ppb	98
7) Freon 21	1.847	67	640094	98.16	ppb	96
8) Trichlorofluoromethane	1.884	101	514502	108.45	ppb	95
9) Diethyl Ether	2.134	59	420480	100.55	ppb	96
10) Freon 123a	2.140	67	443876	97.36	ppb	96
11) Freon 123	2.195	83	495186	98.49	ppb	99
12) Acrolein	2.256	56	613604	526.78	ppb	96
13) 1,1-Dicethene	2.323	96	331212	102.86	ppb	95
14) Freon 113	2.317	101	324971	103.80	ppb	93
15) Acetone	2.396	43	260170	97.12	ppb	96
16) 2-Propanol	2.536	45	1270476	2085.68	ppb	98
17) Iodomethane	2.457	142	446695	120.45	ppb	97
18) Carbon Disulfide	2.512	76	976250	101.18	ppb	99
19) Acetonitrile	2.658	40	166334m	405.52	ppb	
20) Allyl Chloride	2.664	76	171097	93.06	ppb	# 90
21) Methyl Acetate	2.701	43	536285	101.02	ppb	97
22) Methylene Chloride	2.786	84	383768	91.51	ppb	97
23) TBA	2.951	59	1881738	2086.80	ppb	100
24) Acrylonitrile	3.073	53	1428006	522.83	ppb	100
25) Methyl-t-Butyl Ether	3.085	73	1376869	101.61	ppb	97
26) trans-1,2-Dichloroethene	3.073	96	365353	103.70	ppb	94
28) 1,1-Dicethane	3.591	63	739785	102.28	ppb	99
29) Vinyl Acetate	3.688	86	97381	123.39	ppb	99
30) DIPE	3.694	45	1581816	100.44	ppb	97
31) 2-Chloro-1,3-Butadiene	3.700	53	613998	104.98	ppb	100
32) ETBE	4.231	59	1410465	99.48	ppb	97
33) 2,2-Dichloropropane	4.420	77	569458	107.38	ppb	97
34) cis-1,2-Dichloroethene	4.438	96	415421	103.79	ppb	95
35) 2-Butanone	4.517	43	376158	100.53	ppb	97
36) Propionitrile	4.633	54	621076	535.06	ppb	97
37) Bromochloromethane	4.847	130	230264	96.99	ppb	92
38) Methacrylonitrile	4.889	67	280839	102.31	ppb	90
39) Tetrahydrofuran	4.944	42	257313	83.49	ppb	96
40) Chloroform	5.029	83	636000	99.77	ppb	99
41) 1,1,1-Trichloroethane	5.298	97	529122	104.10	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29737.D
 Acq On : 11 Sep 2019 5:44 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:47:54 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	1332348	101.97	ppb	96
44) Cyclohexane	5.353	41	439195	100.87	ppb	93
46) Carbontetrachloride	5.560	117	398420	105.61	ppb	96
47) 1,1-Dichloropropene	5.584	75	534392	101.30	ppb	99
49) Benzene	5.901	78	1666039	101.64	ppb	100
50) 1,2-Dichloroethane	5.968	62	554369	99.50	ppb	98
51) Iso-Butyl Alcohol	5.968	43	989597	2120.17	ppb	97
52) n-Heptane	6.352	43	652745	106.45	ppb	99
53) 1-Butanol	6.913	56	1502287	5613.77	ppb	99
54) Trichloroethene	6.834	130	381748	104.73	ppb	97
55) Methylcyclohexane	7.053	55	597670	101.75	ppb	98
56) 1,2-Dicloropropane	7.133	63	460968	101.89	ppb	93
57) Dibromomethane	7.279	93	238396	106.25	ppb	93
58) 1,4-Dioxane	7.346	88	208150	1996.04	ppb	97
59) Methyl Methacrylate	7.352	69	460048	109.24	ppb	95
60) Bromodichloromethane	7.498	83	460048	105.68	ppb	98
61) 2-Nitropropane	7.809	41	136717	198.75	ppb	99
62) 2-Chloroethylvinyl Ether	7.901	63	334971	109.19	ppb	100
63) cis-1,3-Dichloropropene	8.035	75	691322	106.90	ppb	99
64) 4-Methyl-2-pentanone	8.248	43	737543	105.37	ppb	98
66) Toluene	8.389	91	1664348	100.38	ppb	91
67) trans-1,3-Dichloropropene	8.675	75	636615	106.98	ppb	97
68) Ethyl Methacrylate	8.803	69	788023	107.01	ppb	99
69) 1,1,2-Trichloroethane	8.864	97	376781	102.35	ppb	97
72) Tetrachloroethene	8.968	164	288794	98.26	ppb	97
73) 2-Hexanone	9.151	43	559599	103.14	ppb	95
74) 1,3-Dichloropropane	9.029	76	746319	102.13	ppb	99
75) Dibromochloromethane	9.254	129	325296	107.76	ppb	96
76) N-Butyl Acetate	9.291	43	1102688	106.66	ppb	96
77) 1,2-Dibromoethane	9.346	107	384836	101.07	ppb	100
78) Chlorobenzene	9.827	112	1082960	100.73	ppb	98
79) 3-CBTF	9.846	180	551969	99.64	ppb	97
80) 4-CBTF	9.900	180	507664	101.66	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.919	131	357875	111.70	ppb	96
82) Ethylbenzene	9.943	106	610146	104.53	ppb	# 83
83) (m+p)Xylene	10.053	106	1445477	204.97	ppb	# 83
84) o-Xylene	10.413	106	741828	103.37	ppb	# 85
85) Styrene	10.425	104	1259773	106.00	ppb	98
87) Bromoform	10.589	173	209434	112.01	ppb	95
88) 2-CBTF	10.663	180	550854	98.94	ppb	98
89) Isopropylbenzene	10.742	105	1813030	99.59	ppb	94
90) Cyclohexanone	10.827	55	1468858	1887.86	ppb	96
91) trans-1,4-Dichloro-2-B...	11.065	53	219688	109.38	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.016	83	642070	105.89	ppb	99
93) Bromobenzene	10.992	156	441190	98.38	ppb	97
94) 1,2,3-Trichloropropane	11.047	110	195327	97.86	ppb	# 91
95) n-Propylbenzene	11.095	91	2083963	95.68	ppb	90
96) 2-Chlorotoluene	11.162	91	1354362	98.40	ppb	95
97) 3-Chlorotoluene	11.217	91	1369032	98.07	ppb	96
98) 4-Chlorotoluene	11.254	91	1494188	100.69	ppb	94
99) 1,3,5-Trimethylbenzene	11.248	105	1565641	103.27	ppb	96
100) tert-Butylbenzene	11.516	119	1363067	102.16	ppb	96
101) 1,2,4-Trimethylbenzene	11.559	105	1557637	103.49	ppb	94
102) 3,4-DCBTF	11.620	214	460289	100.24	ppb	98
103) sec-Butylbenzene	11.699	105	1926730	99.80	ppb	93
104) p-Isopropyltoluene	11.821	119	1699982	102.85	ppb	91

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29737.D
Acq On : 11 Sep 2019 5:44 pm
Operator : K.Ruest
Sample : 100ppb
Misc : WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:47:54 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration

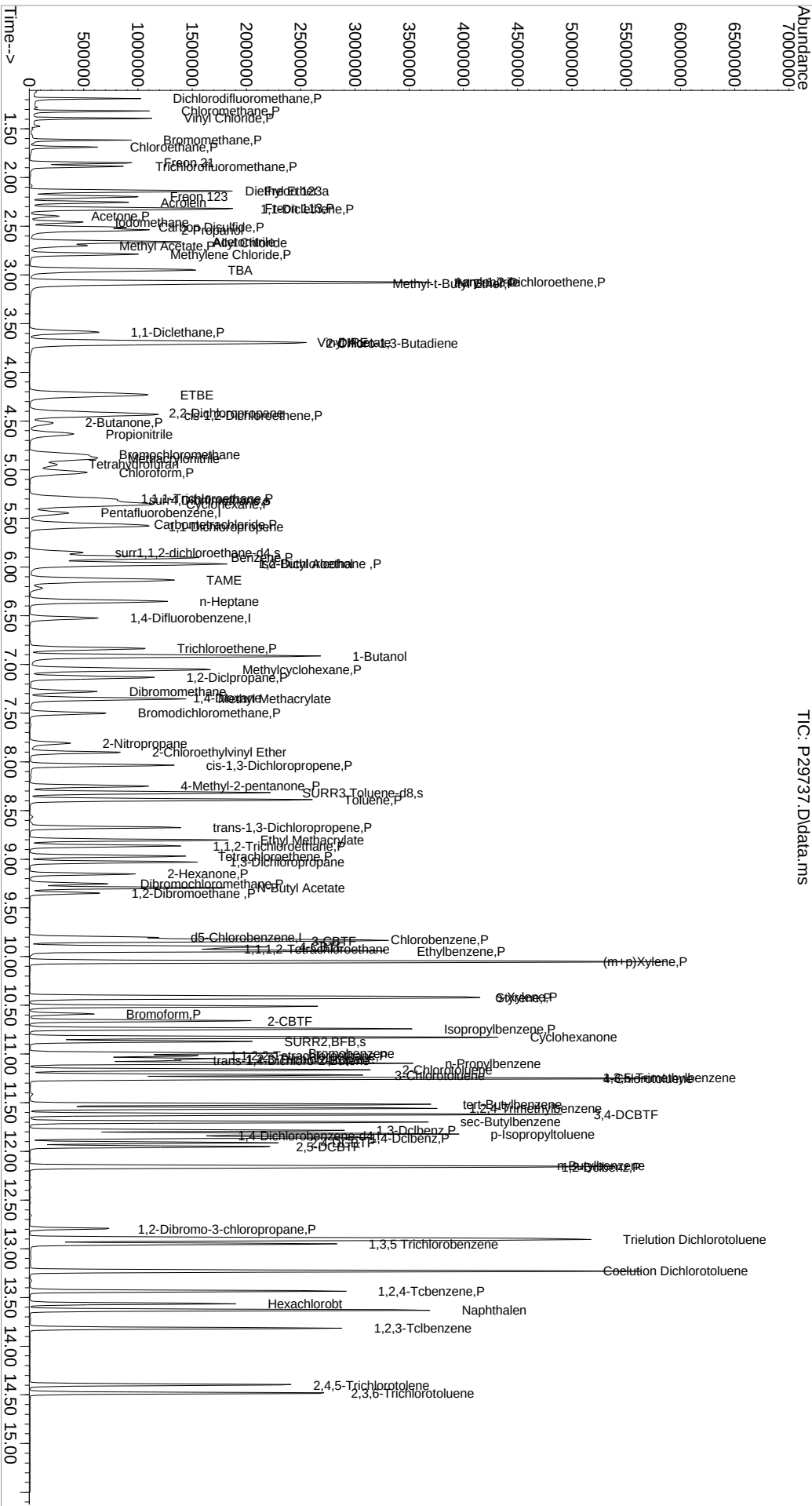
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	881082	98.63	ppb	98
106) 1,4-Dclbenz	11.864	146	901060	98.53	ppb	97
107) 2,4-DCBTF	11.912	214	416250	99.34	ppb	98
108) 2,5-DCBTF	11.955	214	479746	102.94	ppb	98
109) n-Butylbenzene	12.150	91	1617781	100.09	ppb	91
110) 1,2-Dclbenz	12.162	146	892513	100.98	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.796	157	154090	110.01	ppb	96
112) Trielution Dichlorotol...	12.906	125	2385254	295.10	ppb	94
113) 1,3,5 Trichlorobenzene	12.949	180	665346	100.50	ppb	98
114) Coelution Dichlorotoluene	13.229	125	1741970	192.38	ppb	94
115) 1,2,4-Tcbenzene	13.436	180	673289	98.91	ppb	98
116) Hexachlorobt	13.564	225	272895	100.08	ppb	98
117) Naphthalen	13.631	128	2068743	96.59	ppb	94
118) 1,2,3-Tclbenzene	13.814	180	675311	100.44	ppb	96
119) 2,4,5-Trichlorotoluene	14.400	159	507239	98.97	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	525459	99.15	ppb	95

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

1st 09/12/19
 2nd 09/12/19
 Data Path : I:\ACQDATA\msvoa12\Data\091119\
 Data File : P29737.D
 Acq On : 11 Sep 2019 5:44 pm
 Operator : K.Ruest
 Sample : 100ppb
 Sample ICAL : WATER
 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:47:54 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

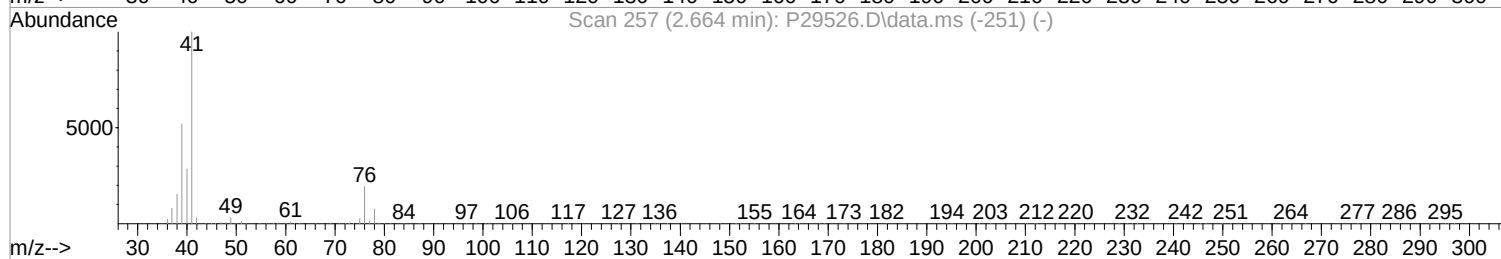
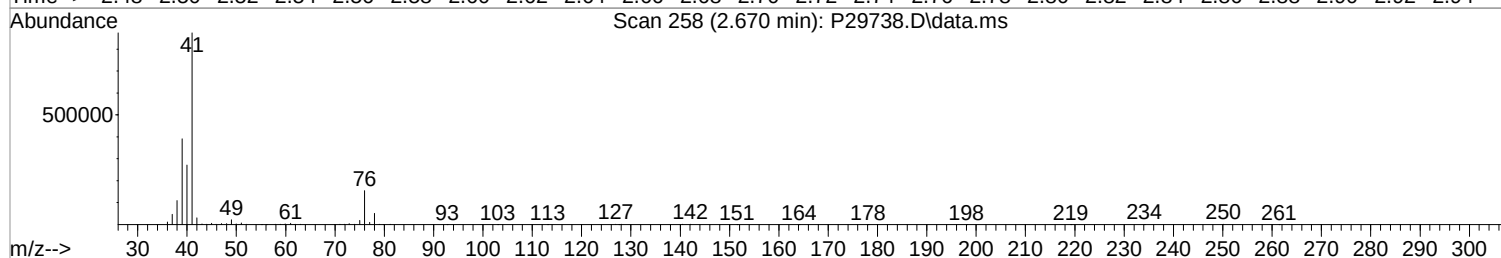
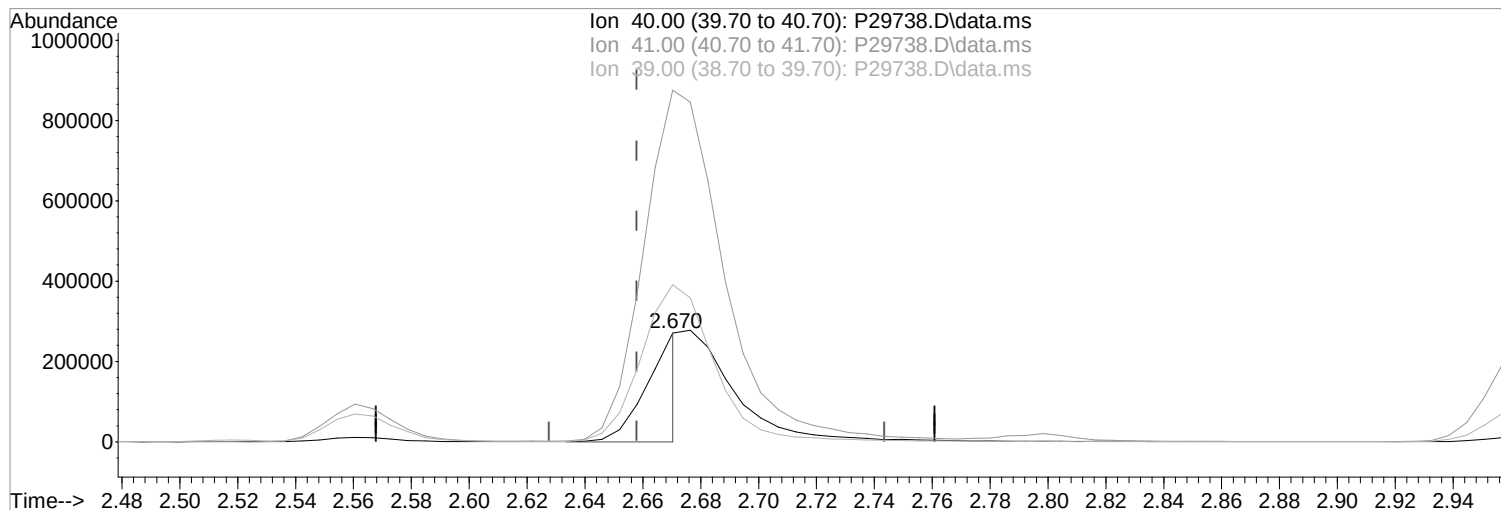


TIC: P29737.D\data.ms

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29738.D
Acq On : 11 Sep 2019 6:06 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:42 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29738.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 558.49 ppb m

response 213385

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	323.42
39.00	137.60	144.56
0.00	0.00	0.00

Manual Integration:

After

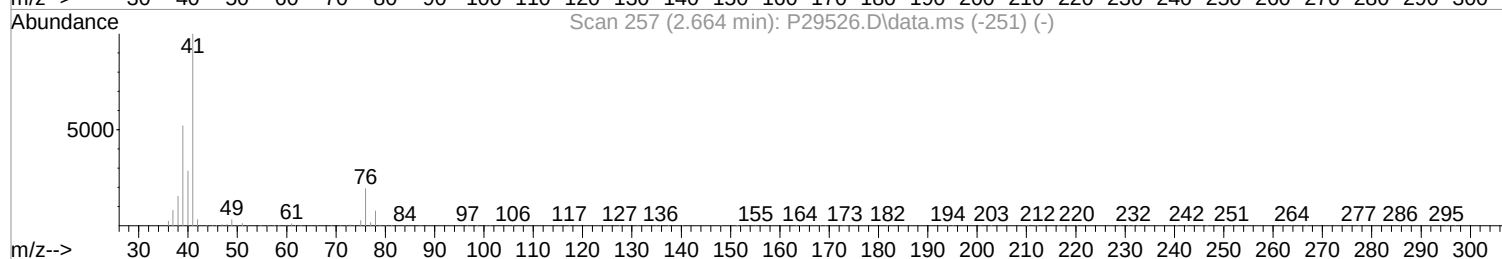
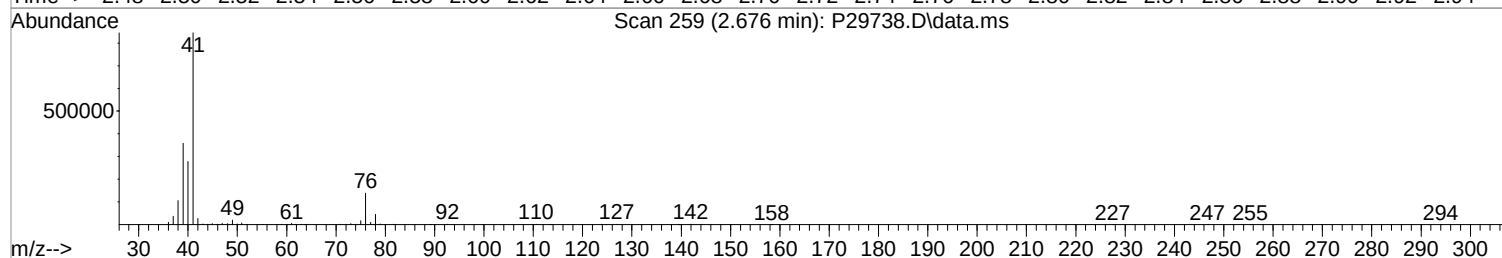
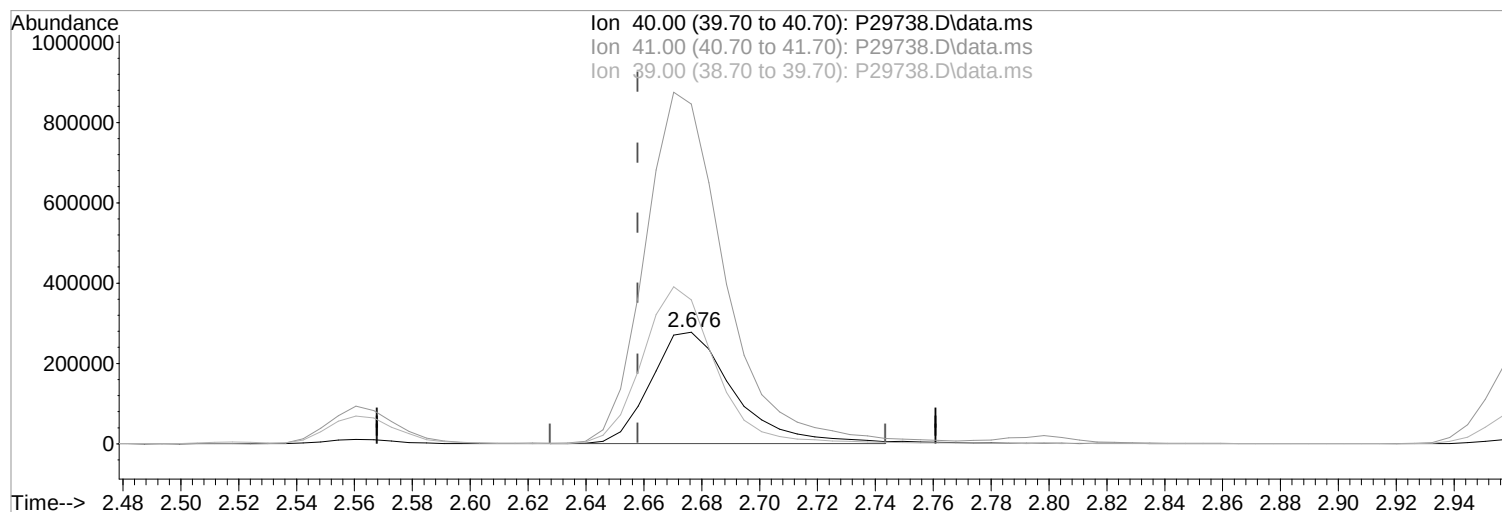
Poor integration.

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29738.D
Acq On : 11 Sep 2019 6:06 pm
Operator : K.Ruest
Sample : 150ppb
Misc : WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:42 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29738.D\data.ms

(19) Acetonitrile

Manual Integration:

2.676min (+0.019) 1452.04 ppb

Before

response 554783

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	304.77#
39.00	137.60	129.04
0.00	0.00	0.00

09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29738.D
 Acq On : 11 Sep 2019 6:06 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:49:19 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	306609	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	529627	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	480064	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	276240	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.328	113	538146	191.72	ppb	0.01
Spiked Amount 50.000	Range 89 - 119		Recovery =	383.44%#		
48) surr1,1,2-dichloroetha...	5.859	65	753193	193.92	ppb	0.01
Spiked Amount 50.000	Range 73 - 125		Recovery =	387.84%#		
65) SURR3,Toluene-d8	8.322	98	2322663	175.77	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	351.54%#		
70) SURR2,BFB	10.870	95	1017080	197.83	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	395.66%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.201	85	636454	167.93	ppb	98
3) Chloromethane	1.329	50	906875	155.34	ppb	96
4) Vinyl Chloride	1.402	62	863704	158.51	ppb	97
5) Bromomethane	1.628	94	382930	129.44	ppb	97
6) Chloroethane	1.689	64	494874	150.81	ppb	99
7) Freon 21	1.859	67	924846	152.25	ppb	98
8) Trichlorofluoromethane	1.890	101	717467	162.36	ppb	92
9) Diethyl Ether	2.146	59	610303	156.67	ppb	99
10) Freon 123a	2.152	67	633690	149.21	ppb	96
11) Freon 123	2.207	83	704186	150.36	ppb	99
12) Acrolein	2.268	56	904603	833.73	ppb	99
13) 1,1-Dicethene	2.329	96	474447	158.18	ppb	95
14) Freon 113	2.329	101	455613	156.23	ppb	100
15) Acetone	2.414	43	379830	152.22	ppb	97
16) 2-Propanol	2.561	45	1955124	3445.71	ppb	94
17) Iodomethane	2.469	142	635822	184.06	ppb	96
18) Carbon Disulfide	2.518	76	1380685	153.62	ppb	98
19) Acetonitrile	2.670	40	213385m	558.49	ppb	
20) Allyl Chloride	2.670	76	244143	142.56	ppb	# 83
21) Methyl Acetate	2.713	43	805736	162.93	ppb	98
22) Methylene Chloride	2.798	84	550744	140.98	ppb	98
23) TBA	2.969	59	2850981	3394.22	ppb	97
24) Acrylonitrile	3.085	53	2033469	799.27	ppb	99
25) Methyl-t-Butyl Ether	3.097	73	1994444	158.01	ppb	99
26) trans-1,2-Dichloroethene	3.085	96	525894	160.25	ppb	92
28) 1,1-Dicethane	3.597	63	1073044	159.27	ppb	99
29) Vinyl Acetate	3.694	86	143645	195.40	ppb	# 73
30) DIPE	3.707	45	2262565	154.23	ppb	95
31) 2-Chloro-1,3-Butadiene	3.713	53	877587	161.08	ppb	99
32) ETBE	4.243	59	2051944	155.37	ppb	100
33) 2,2-Dichloropropane	4.432	77	804314	162.82	ppb	97
34) cis-1,2-Dichloroethene	4.450	96	592809	159.00	ppb	99
35) 2-Butanone	4.536	43	565407	162.23	ppb	96
36) Propionitrile	4.646	54	928192	858.46	ppb	99
37) Bromochloromethane	4.859	130	334532	151.27	ppb	89
38) Methacrylonitrile	4.902	67	412742	161.42	ppb	90
39) Tetrahydrofuran	4.963	42	387896	135.12	ppb	96
40) Chloroform	5.042	83	914020	153.93	ppb	98
41) 1,1,1-Trichloroethane	5.304	97	770240	162.69	ppb	96

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29738.D
 Acq On : 11 Sep 2019 6:06 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:49:19 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	1937998	159.23	ppb	95
44) Cyclohexane	5.365	41	639582	151.23	ppb	93
46) Carbontetrachloride	5.566	117	599776	163.69	ppb	96
47) 1,1-Dichloropropene	5.590	75	781189	152.46	ppb	99
49) Benzene	5.914	78	2350564	147.63	ppb	99
50) 1,2-Dichloroethane	5.975	62	800400	147.90	ppb	97
51) Iso-Butyl Alcohol	5.987	43	1603786	3537.62	ppb	97
52) n-Heptane	6.359	43	929220	156.02	ppb	96
53) 1-Butanol	6.926	56	2370737	9120.89	ppb	97
54) Trichloroethene	6.840	130	546510	154.37	ppb	98
55) Methylcyclohexane	7.054	55	855039	149.87	ppb	97
56) 1,2-Dicloropropane	7.139	63	662389	150.74	ppb	92
57) Dibromomethane	7.285	93	347546	159.47	ppb	94
58) 1,4-Dioxane	7.352	88	335634	3313.69	ppb	96
59) Methyl Methacrylate	7.358	69	682916	166.96	ppb	97
60) Bromodichloromethane	7.505	83	684370	161.85	ppb	97
61) 2-Nitropropane	7.810	41	229365	343.30	ppb	94
62) 2-Chloroethylvinyl Ether	7.907	63	491849	165.07	ppb	100
63) cis-1,3-Dichloropropene	8.041	75	1014892	161.57	ppb	96
64) 4-Methyl-2-pentanone	8.255	43	1105061	162.54	ppb	100
66) Toluene	8.395	91	2292640	142.36	ppb	87
67) trans-1,3-Dichloropropene	8.675	75	955084	165.24	ppb	99
68) Ethyl Methacrylate	8.803	69	1180822	165.10	ppb	99
69) 1,1,2-Trichloroethane	8.864	97	562315	157.27	ppb	98
72) Tetrachloroethene	8.974	164	414989	143.34	ppb	97
73) 2-Hexanone	9.157	43	861634	161.22	ppb	99
74) 1,3-Dichloropropane	9.029	76	1073401	149.12	ppb	98
75) Dibromochloromethane	9.254	129	499501	167.98	ppb	98
76) N-Butyl Acetate	9.297	43	1622150	159.28	ppb	92
77) 1,2-Dibromoethane	9.352	107	573090	152.80	ppb	96
78) Chlorobenzene	9.827	112	1538264	145.24	ppb	95
79) 3-CBTF	9.846	180	821586	150.56	ppb	98
80) 4-CBTF	9.901	180	751625	152.79	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.919	131	530877	168.20	ppb	99
82) Ethylbenzene	9.943	106	885089	153.92	ppb	# 70
83) (m+p)Xylene	10.053	106	2004516	288.54	ppb	# 72
84) o-Xylene	10.413	106	1069150	151.24	ppb	# 77
85) Styrene	10.431	104	1773726	151.51	ppb	98
87) Bromoform	10.589	173	339436	175.31	ppb	93
88) 2-CBTF	10.663	180	827587	143.55	ppb	97
89) Isopropylbenzene	10.742	105	2431415	128.98	ppb	85
90) Cyclohexanone	10.833	55	1992030	2472.48	ppb	95
91) trans-1,4-Dichloro-2-B...	11.065	53	341237	164.07	ppb	98
92) 1,1,2,2-Tetrachloroethane	11.022	83	991927	157.98	ppb	96
93) Bromobenzene	10.992	156	662965	142.76	ppb	99
94) 1,2,3-Trichloropropane	11.047	110	299712	145.01	ppb	# 88
95) n-Propylbenzene	11.095	91	2756105	122.20	ppb	81
96) 2-Chlorotoluene	11.163	91	1897210	133.12	ppb	91
97) 3-Chlorotoluene	11.217	91	1917916	132.67	ppb	# 90
98) 4-Chlorotoluene	11.254	91	2067046	134.52	ppb	88
99) 1,3,5-Trimethylbenzene	11.248	105	2149284	136.91	ppb	88
100) tert-Butylbenzene	11.516	119	1911170	138.32	ppb	92
101) 1,2,4-Trimethylbenzene	11.559	105	2144377	137.59	ppb	85
102) 3,4-DCBTF	11.620	214	698900	146.99	ppb	98
103) sec-Butylbenzene	11.699	105	2542096	127.15	ppb	84
104) p-Isopropyltoluene	11.821	119	2280865	133.26	ppb	81

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
 Data File : P29738.D
 Acq On : 11 Sep 2019 6:06 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

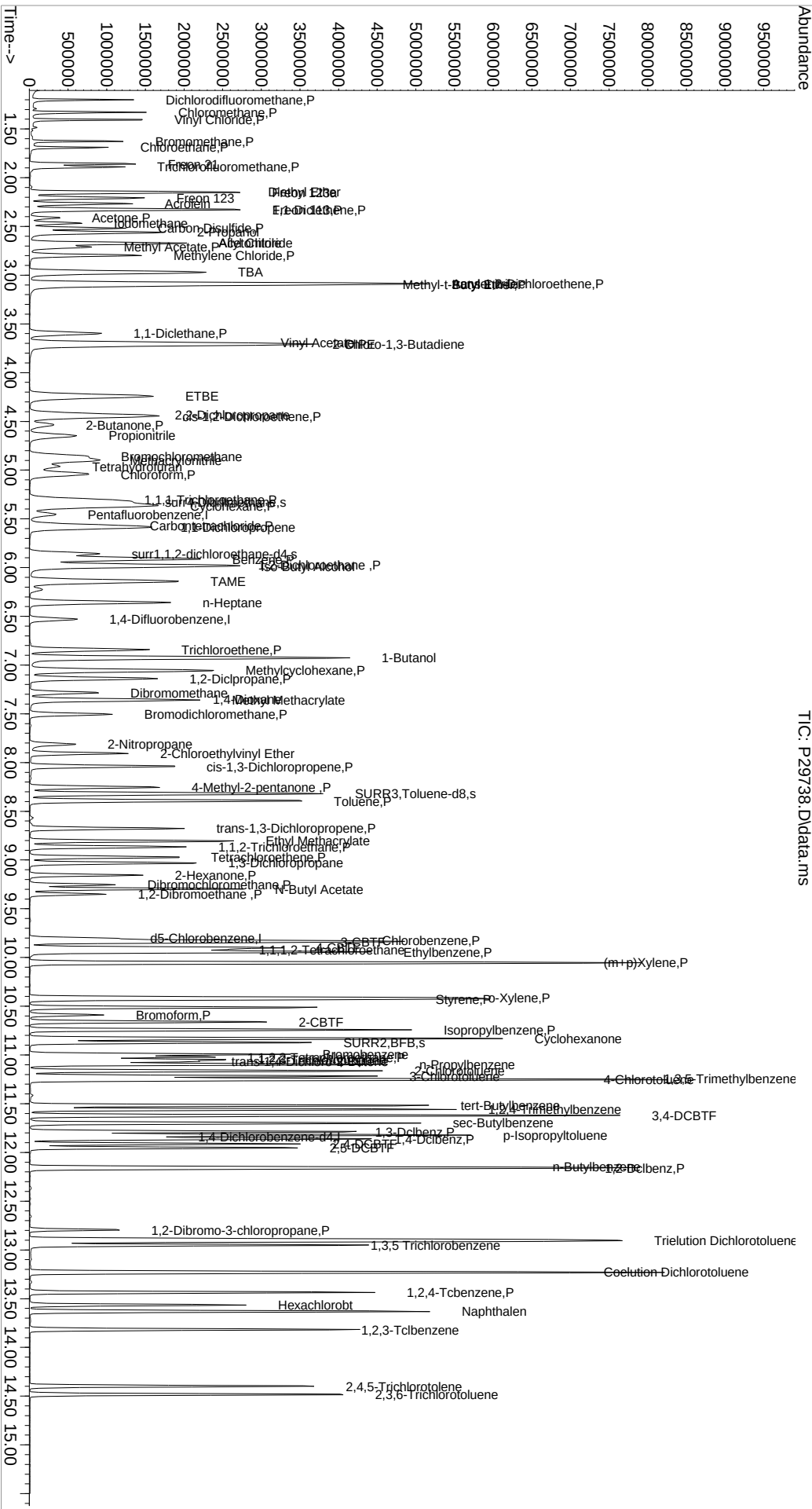
Quant Time: Sep 12 09:49:19 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.790	146	1315084	142.16	ppb	96
106) 1,4-Dclbenz	11.864	146	1340377	141.54	ppb	93
107) 2,4-DCBTF	11.912	214	641554	147.86	ppb	98
108) 2,5-DCBTF	11.955	214	732845	151.85	ppb	99
109) n-Butylbenzene	12.150	91	2211322	132.12	ppb	82
110) 1,2-Dclbenz	12.162	146	1342751	146.70	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.796	157	243323	167.77	ppb	98
112) Trielution Dichlorotol...	12.906	125	3408696	407.26	ppb #	86
113) 1,3,5 Trichlorobenzene	12.955	180	1005778	146.71	ppb	99
114) Coelution Dichlorotoluene	13.229	125	2412820	257.34	ppb #	83
115) 1,2,4-Tcbenzene	13.436	180	1018500	144.49	ppb	99
116) Hexachlorobt	13.565	225	414898	146.94	ppb	96
117) Naphthalen	13.632	128	2752498	124.10	ppb	85
118) 1,2,3-Tclbenzene	13.821	180	1018141	146.23	ppb	97
119) 2,4,5-Trichlorotoluene	14.400	159	768495	144.81	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	786988	143.41	ppb	93

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

1st 09/12/19
 Data Path : I:\ACQDATA\msvoa12\Data\091119\
 Data File : P29738.D
 Acq On : 11 Sep 2019 6:06 pm
 Operator : K.Ruest
 Sample : 150ppb
 PALS Vial : 8 Sample Multiplier: 1
 Inst : MSVOA-12

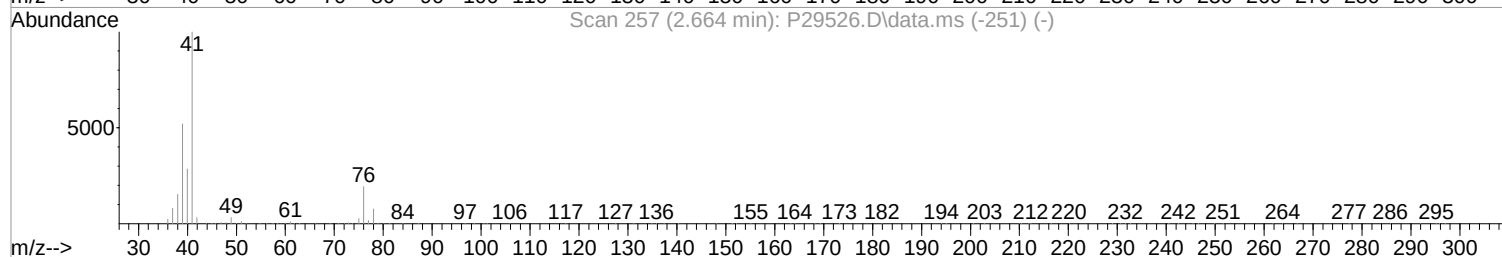
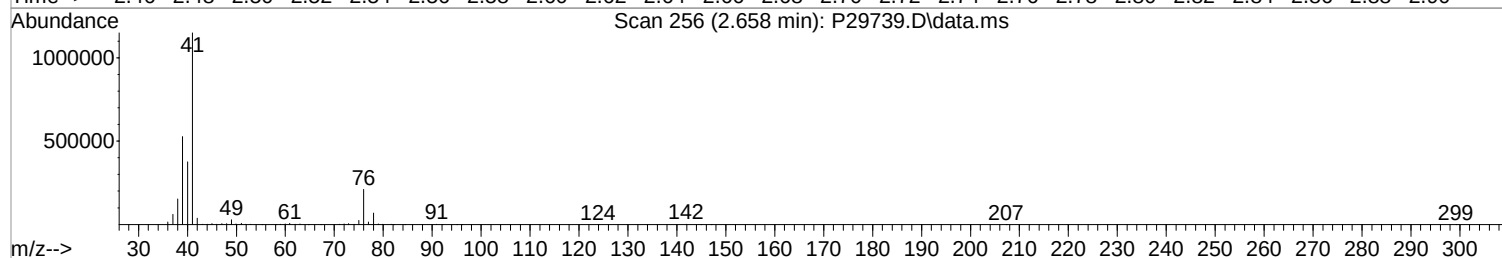
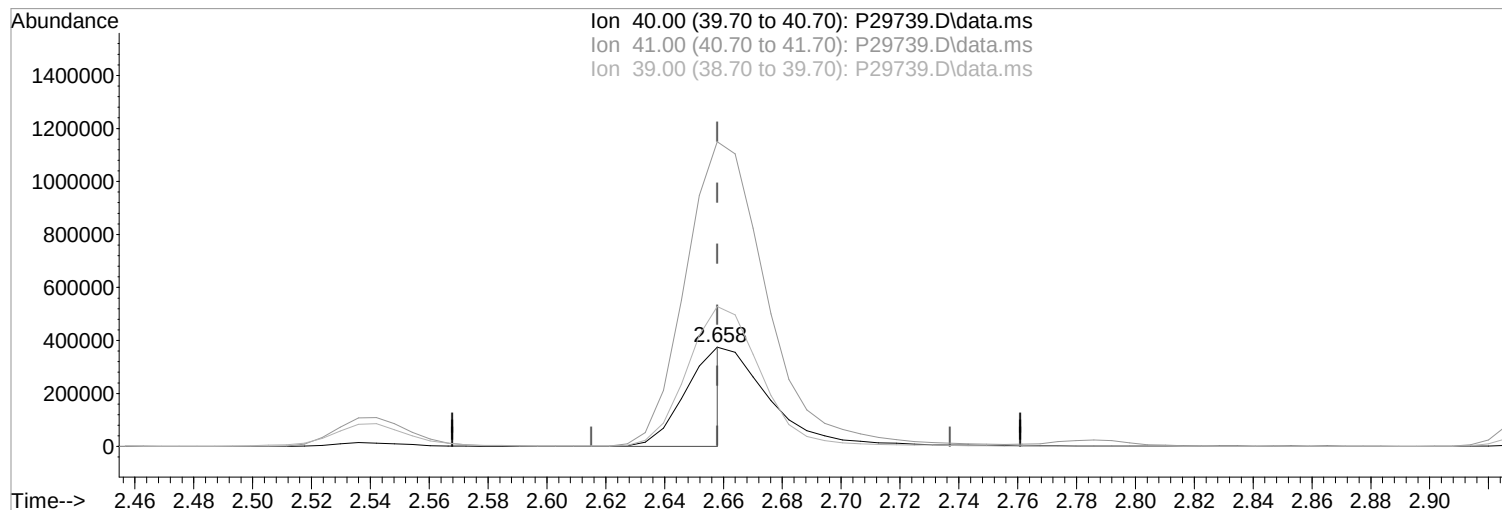
Quant Time: Sep 12 09:49:19 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Thu Sep 12 08:53:50 2019
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29739.D
Acq On : 11 Sep 2019 6:28 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:45 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29739.D\data.ms

(19) Acetonitrile

2.658min (0.000) 842.06 ppb m

response 346022

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	306.99#
39.00	137.60	140.82
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

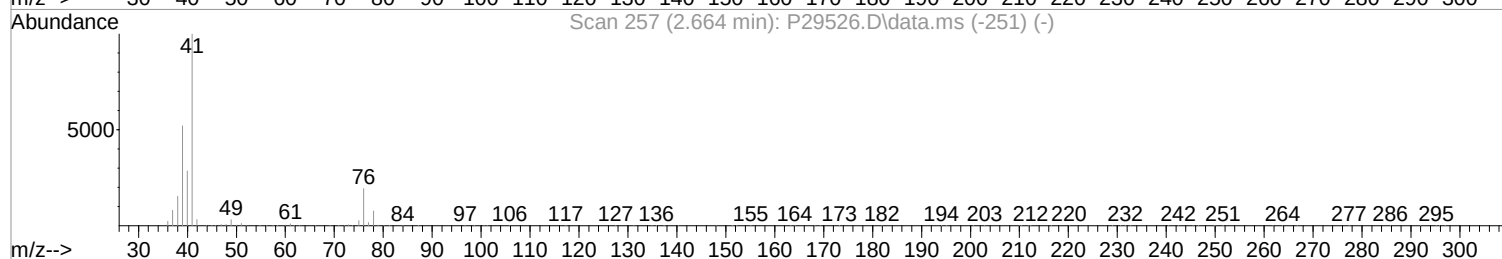
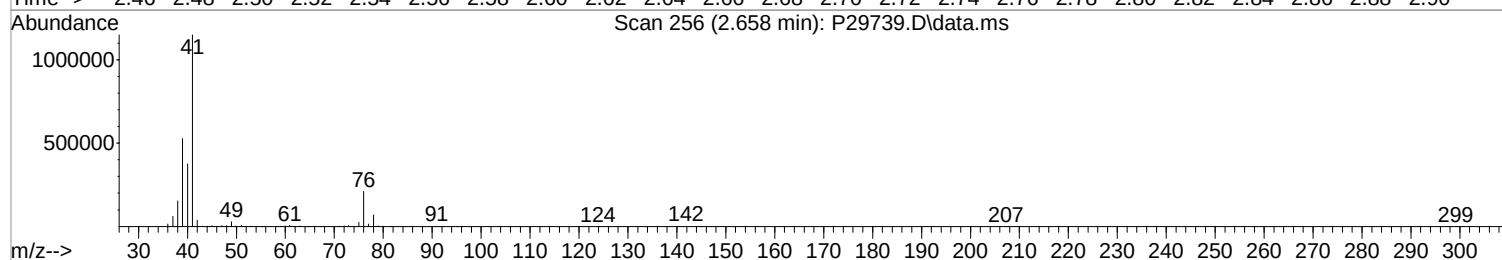
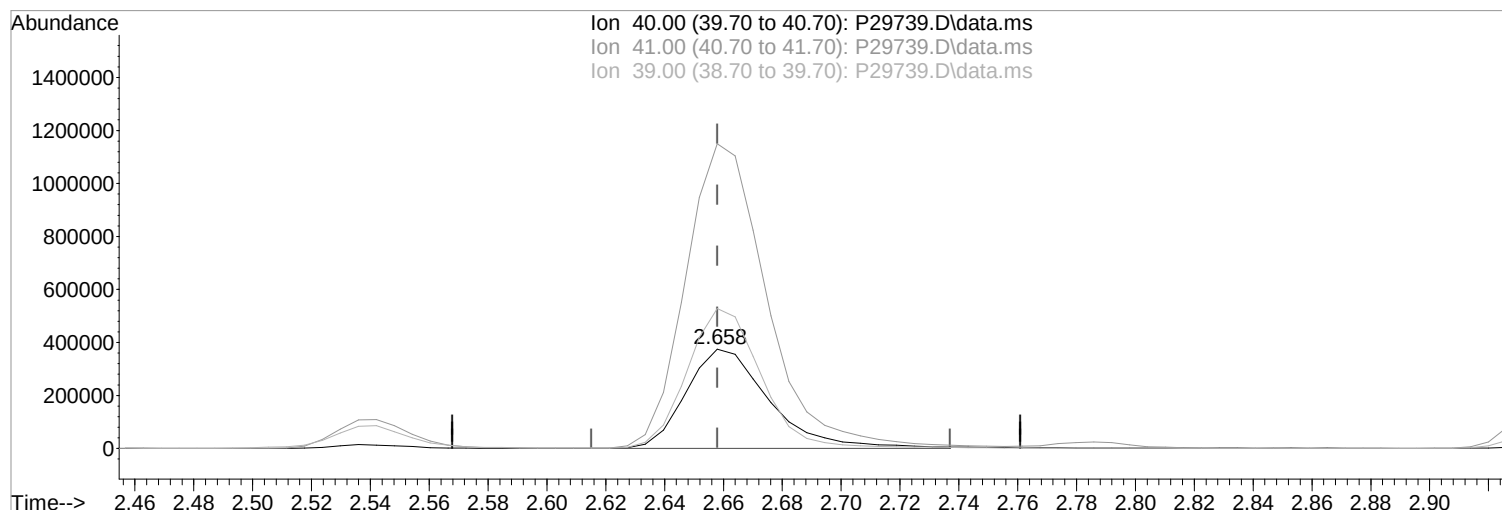
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091119\
Data File : P29739.D
Acq On : 11 Sep 2019 6:28 pm
Operator : K.Ruest
Sample : 200ppb
Misc : WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 09:22:45 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 08:53:50 2019
Response via : Initial Calibration



TIC: P29739.D\data.ms

(19) Acetonitrile

Manual Integration:

2.658min (0.000) 1795.51 ppb

Before

response 737815

Ion Exp% Act%

09/12/19

40.00 100 100

41.00 334.20 306.99#

39.00 137.60 140.82

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\091219\
 Data File : P29749.D
 Acq On : 12 Sep 2019 10:23 am
 Operator : K.Ruest
 Sample : ICV/LCS 50
 Misc : UNP
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:46:20 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	334332	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.529	114	555220	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	488208	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	267427	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	143351	48.72	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	97.44%		
48) surr1,1,2-dichloroetha...	5.853	65	204265	50.17	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	100.34%		
65) SURR3,Toluene-d8	8.315	98	703409	50.78	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	101.56%		
70) SURR2,BFB	10.870	95	267579	49.65	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	99.30%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.201	85	163442	39.55	ppb	99
3) Chloromethane	1.329	50	242908	38.16	ppb	95
4) Vinyl Chloride	1.408	62	242131	40.75	ppb	97
5) Bromomethane	1.628	94	131262	47.25	ppb	95
6) Chloroethane	1.707	64	140521	39.27	ppb	98
7) Freon 21	1.865	67	288960	43.63	ppb	97
8) Trichlorofluoromethane	1.908	101	224641	46.62	ppb	96
9) Diethyl Ether	2.146	59	178759	42.08	ppb	98
10) Freon 123a	2.158	67	195295	42.18	ppb	96
11) Freon 123	2.207	83	232925	45.61	ppb	98
12) Acrolein	2.268	56	74378	62.87	ppb	98
13) 1,1-Dicethene	2.335	96	139973	42.80	ppb	95
14) Freon 113	2.335	101	139802	43.96	ppb	100
15) Acetone	2.402	43	109388	40.20	ppb	92
16) 2-Propanol	2.542	45	460965	745.04	ppb	99
17) Iodomethane	2.475	142	159206	39.56	ppb	99
18) Carbon Disulfide	2.524	76	460505	46.99	ppb	100
19) Acetonitrile	2.670	40	75280m	208.46	ppb	
20) Allyl Chloride	2.676	76	90407	48.21	ppb	94
21) Methyl Acetate	2.713	43	214922	39.86	ppb	96
22) Methylene Chloride	2.798	84	170831	40.10	ppb	98
23) TBA	2.951	59	675582	737.62	ppb	99
24) Acrylonitrile	3.085	53	573227	205.40	ppb	96
25) Methyl-t-Butyl Ether	3.097	73	596702	43.35	ppb	98
26) trans-1,2-Dichloroethene	3.085	96	157537	44.36	ppb	90
28) 1,1-Dicethane	3.597	63	326655	44.46	ppb	99
29) Vinyl Acetate	3.694	86	47805	50.25	ppb	# 85
30) DIPE	3.707	45	698823	43.68	ppb	96
31) 2-Chloro-1,3-Butadiene	3.713	53	280996	47.25	ppb	95
32) ETBE	4.243	59	564474	39.20	ppb	98
33) 2,2-Dichloropropane	4.432	77	255044	47.35	ppb	94
34) cis-1,2-Dichloroethene	4.444	96	178584	43.81	ppb	97
35) 2-Butanone	4.530	43	158206	41.63	ppb	97
36) Propionitrile	4.639	54	234253	198.69	ppb	99
37) Bromochloromethane	4.859	130	98326	40.77	ppb	97
38) Methacrylonitrile	4.901	67	107879	38.69	ppb	91
39) Tetrahydrofuran	4.962	42	103391	38.77	ppb	93
40) Chloroform	5.042	83	279487	43.17	ppb	99
41) 1,1,1-Trichloroethane	5.304	97	232385	45.01	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\091219\
 Data File : P29749.D
 Acq On : 12 Sep 2019 10:23 am
 Operator : K.Ruest
 Sample : ICV/LCS 50
 Misc : UNP
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:46:20 2019
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.139	73	564482	42.53	ppb	94
44) Cyclohexane	5.365	41	196747	44.38	ppb	96
46) Carbontetrachloride	5.566	117	176954	46.80	ppb	95
47) 1,1-Dichloropropene	5.590	75	241297	44.92	ppb	97
49) Benzene	5.913	78	730478	43.77	ppb	98
50) 1,2-Dichloroethane	5.968	62	230393	40.61	ppb	97
51) Iso-Butyl Alcohol	5.968	43	328146	690.46	ppb	94
52) n-Heptane	6.352	43	301079	48.21	ppb	97
53) 1-Butanol	6.907	56	494086	1813.27	ppb	99
54) Trichloroethene	6.840	130	157505	42.44	ppb	96
55) Methylcyclohexane	7.053	55	271895	45.46	ppb	99
56) 1,2-Dichloropropane	7.133	63	196693	42.70	ppb	88
57) Dibromomethane	7.279	93	102506	44.86	ppb	96
58) 1,4-Dioxane	7.346	88	79750	748.67	ppb	98
59) Methyl Methacrylate	7.358	69	180919	42.19	ppb	96
60) Bromodichloromethane	7.505	83	201247	45.40	ppb	97
61) 2-Nitropropane	7.809	41	52535	75.01	ppb	96
62) 2-Chloroethylvinyl Ether	7.907	63	122162	39.45	ppb	100
63) cis-1,3-Dichloropropene	8.035	75	294696	44.75	ppb	99
64) 4-Methyl-2-pentanone	8.248	43	298594	41.89	ppb	99
66) Toluene	8.389	91	769502	45.58	ppb	98
67) trans-1,3-Dichloropropene	8.675	75	264681	43.68	ppb	99
68) Ethyl Methacrylate	8.803	69	320105	42.69	ppb	99
69) 1,1,2-Trichloroethane	8.864	97	166210	44.34	ppb	97
72) Tetrachloroethene	8.968	164	126691	43.03	ppb	96
73) 2-Hexanone	9.151	43	230240	42.36	ppb	96
74) 1,3-Dichloropropane	9.029	76	315496	43.10	ppb	97
75) Dibromochloromethane	9.254	129	143607	47.49	ppb	95
76) N-Butyl Acetate	9.291	43	448990	43.35	ppb	99
77) 1,2-Dibromoethane	9.346	107	161491	42.34	ppb	100
78) Chlorobenzene	9.827	112	479595	44.53	ppb	98
79) 3-CBTF	9.840	180	244888	44.13	ppb	99
80) 4-CBTF	9.894	180	218979	43.77	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.919	131	154644	48.18	ppb	97
82) Ethylbenzene	9.943	106	271546	46.44	ppb	98
83) (m+p)Xylene	10.053	106	674429	95.46	ppb	98
84) o-Xylene	10.413	106	329833	45.88	ppb	96
85) Styrene	10.425	104	545204	45.79	ppb	97
87) Bromoform	10.589	173	84694	45.18	ppb	90
88) 2-CBTF	10.663	180	233642	41.86	ppb	99
89) Isopropylbenzene	10.742	105	859991	47.12	ppb	99
90) Cyclohexanone	10.827	55	727904	933.24	ppb	100
91) trans-1,4-Dichloro-2-B...	11.065	53	85181	42.31	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.016	83	272520	44.83	ppb	98
93) Bromobenzene	10.992	156	188397	41.90	ppb	99
94) 1,2,3-Trichloropropane	11.047	110	76360	38.16	ppb	# 87
95) n-Propylbenzene	11.095	91	1069113	48.96	ppb	98
96) 2-Chlorotoluene	11.162	91	623457	45.25	ppb	98
97) 3-Chlorotoluene	11.217	91	603572	43.13	ppb	100
98) 4-Chlorotoluene	11.254	91	687926	46.24	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	734098	48.30	ppb	99
100) tert-Butylbenzene	11.516	119	631458	47.21	ppb	100
101) 1,2,4-Trimethylbenzene	11.559	105	735637	48.76	ppb	99
102) 3,4-DCBTF	11.620	214	195770	42.53	ppb	99
103) sec-Butylbenzene	11.699	105	952544	49.22	ppb	98
104) p-Isopropyltoluene	11.821	119	803704	48.50	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\091219\
Data File : P29749.D
Acq On : 12 Sep 2019 10:23 am
Operator : K.Ruest
Sample : ICV/LCS 50
Misc : UNP
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:46:20 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration

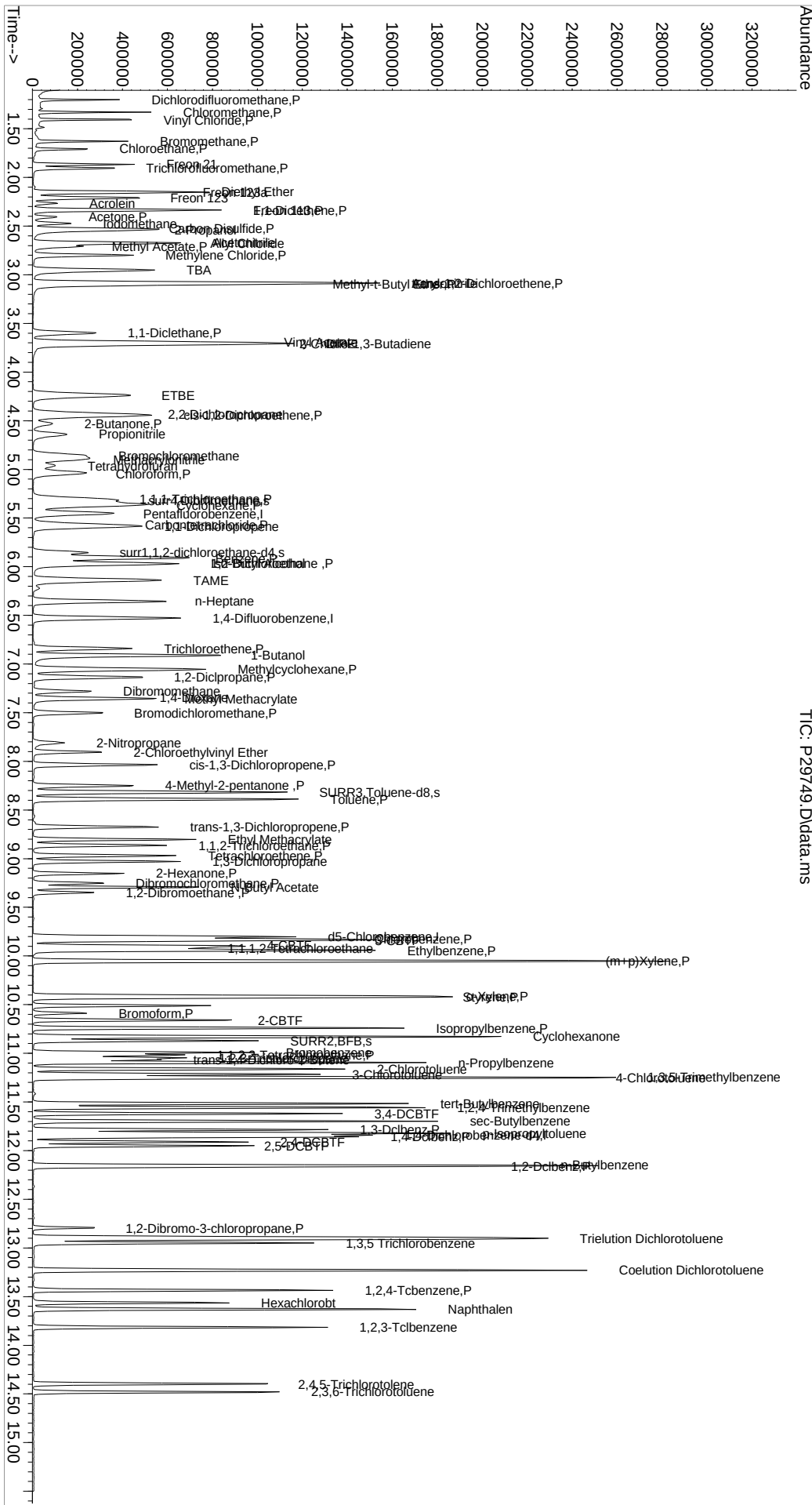
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	397907	44.43	ppb	99
106) 1,4-Dclbenz	11.857	146	403596	44.02	ppb	99
107) 2,4-DCBTF	11.912	214	178086	42.40	ppb	99
108) 2,5-DCBTF	11.955	214	199902	42.79	ppb	99
109) n-Butylbenzene	12.150	91	781785	48.25	ppb	99
110) 1,2-Dclbenz	12.162	146	391170	44.15	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.796	157	56444	40.20	ppb	97
112) Trielution Dichlorotol...	12.900	125	1078619	133.12	ppb	98
113) 1,3,5 Trichlorobenzene	12.949	180	286721	43.20	ppb	99
114) Coelution Dichlorotoluene	13.229	125	793743	87.45	ppb	99
115) 1,2,4-Tcbenzene	13.436	180	306597	44.93	ppb	98
116) Hexachlorobt	13.564	225	127818	46.76	ppb	99
117) Naphthalen	13.631	128	992049	46.20	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	300094	44.52	ppb	99
119) 2,4,5-Trichlorotoluene	14.400	159	225546	43.90	ppb	98
120) 2,3,6-Trichlorotoluene	14.479	159	201494	37.93	ppb	94

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

1st 09/12/19
 2nd 09/12/19
 Data Path : I:\ACQDATA\msvoa12\Data\091219\
 Data File : P29749.D
 Acq On : 12 Sep 2019 10:23 am
 Operator : K.Ruest
 Sample : ICV/LCS 50
 PALS Vial : 1
 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:46:20 2019
 Quant Method : I:\ACQDATA\msvoa12\Methods\W091119.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 Quant Update : Thu Sep 12 10:44:40 2019
 Response via : Initial Calibration

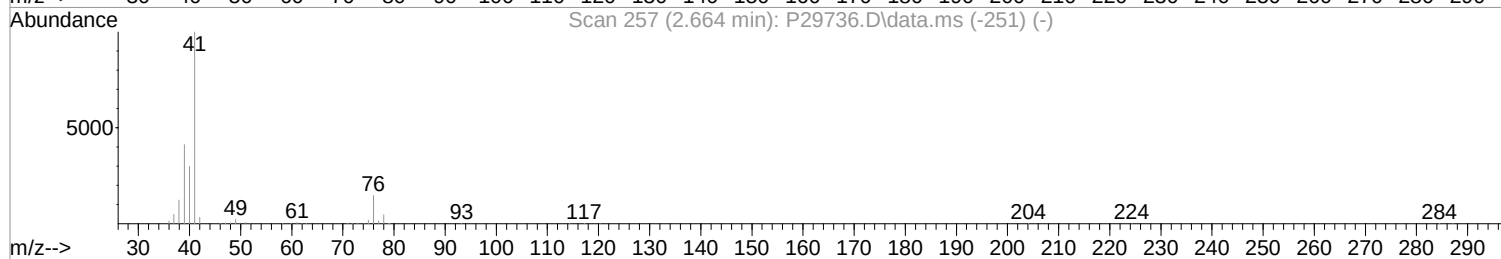
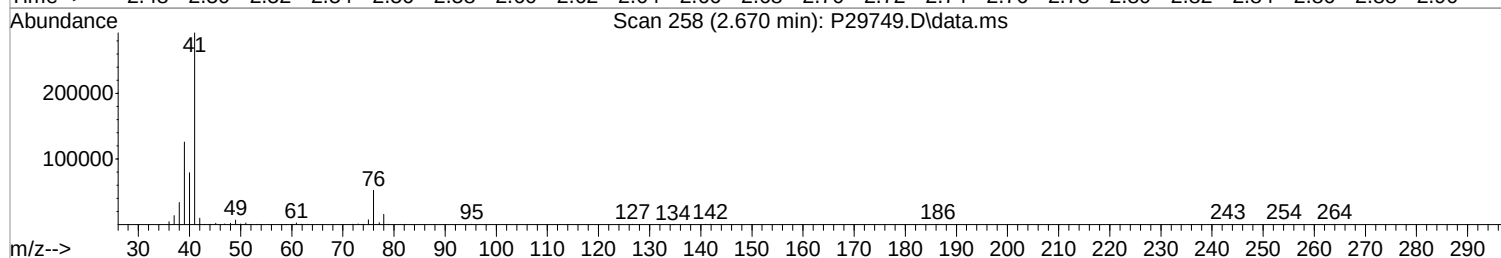
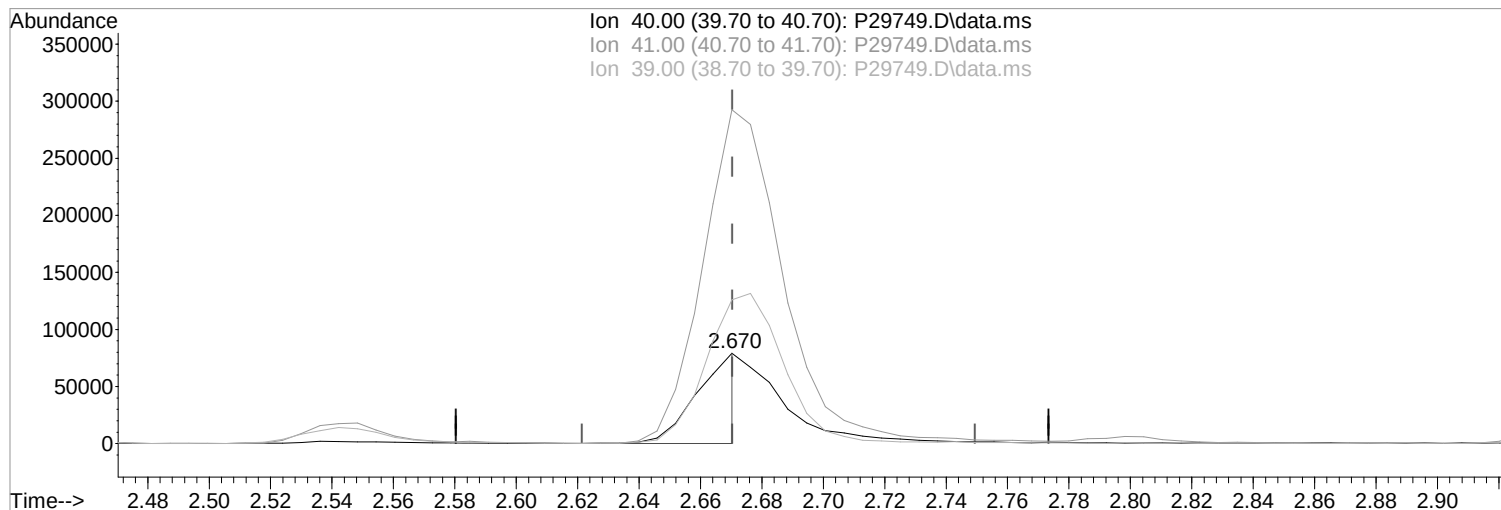


TIC: P29749.D\data.ms

Data Path : I:\ACQUDATA\msvoa12\Data\091219\
Data File : P29749.D
Acq On : 12 Sep 2019 10:23 am
Operator : K.Ruest
Sample : ICV/LCS 50
Misc : UNP
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:44:56 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P29749.D\data.ms

(19) Acetonitrile

2.670min (-0.000) 208.46 ppb m

response 75280

Ion	Exp%	Act%
40.00	100	100
41.00	334.20	369.77#
39.00	137.60	159.29#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/12/19

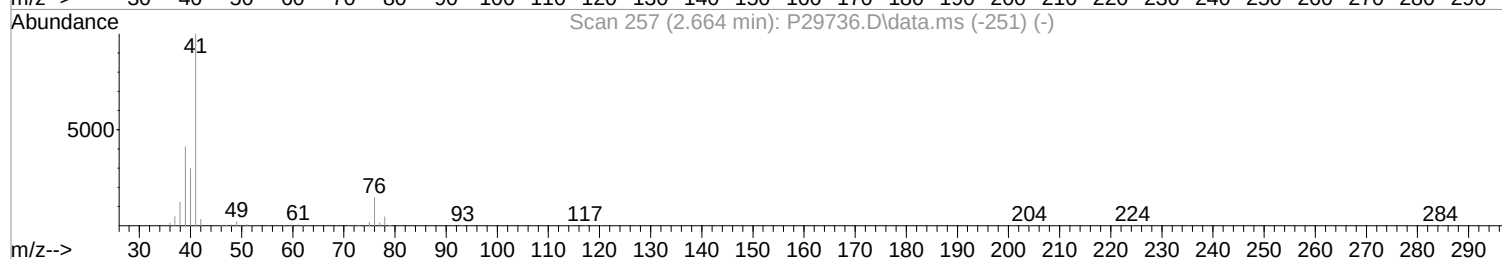
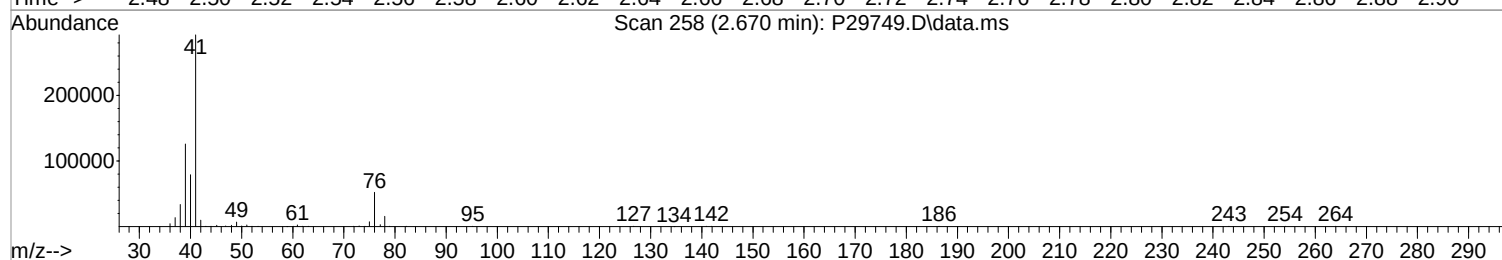
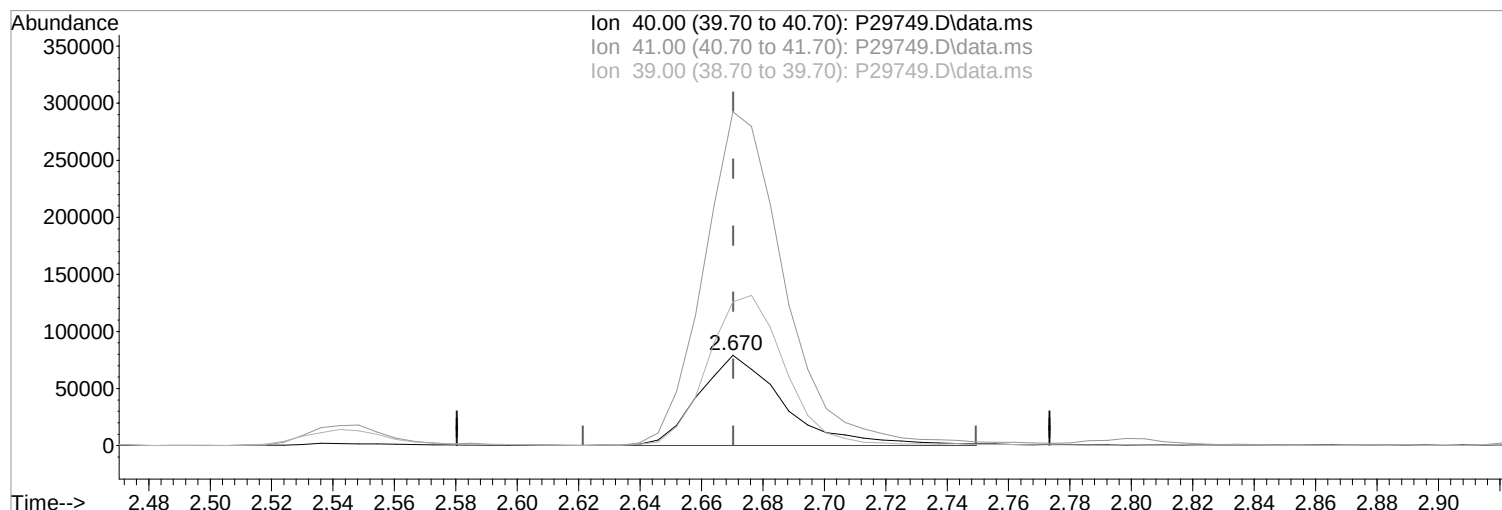
Quantitation Report (Qedit)

1st *FR* 09/12/19
2nd *FR* 09/12/19

Data Path : I:\ACQUDATA\msvoa12\Data\091219\
Data File : P29749.D
Acq On : 12 Sep 2019 10:23 am
Operator : K.Ruest
Sample : ICV/LCS 50
Misc : UNP
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Sep 12 10:44:56 2019
Quant Method : I:\ACQUDATA\msvoa12\Methods\W091119.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 12 10:44:40 2019
Response via : Initial Calibration



TIC: P29749.D\data.ms

(19) Acetonitrile

Manual Integration:

2.670min (-0.000) 424.41 ppb

Before

response 153268

Ion Exp% Act%

09/12/19

40.00 100 100

41.00 334.20 369.77#

39.00 137.60 159.29#

0.00 0.00 0.00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1900101
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1900101-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\091119\P29731.D	09/11/2019 15:34
02	RC1900101-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\091119\P29732.D	09/11/2019 15:55
03	RC1900101-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\091119\P29733.D	09/11/2019 16:17
04	RC1900101-04	5.0ppb	I:\ACQUDATA\msvoa12\Data\091119\P29734.D	09/11/2019 16:39
05	RC1900101-05	20ppb	I:\ACQUDATA\msvoa12\Data\091119\P29735.D	09/11/2019 17:00
06	RC1900101-06	50ppb	I:\ACQUDATA\msvoa12\Data\091119\P29736.D	09/11/2019 17:22
07	RC1900101-07	100ppb	I:\ACQUDATA\msvoa12\Data\091119\P29737.D	09/11/2019 17:44
08	RC1900101-08	150ppb	I:\ACQUDATA\msvoa12\Data\091119\P29738.D	09/11/2019 18:06
09	RC1900101-09	200ppb	I:\ACQUDATA\msvoa12\Data\091119\P29739.D	09/11/2019 18:28

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7022	02	1.000	0.7114	03	2.000	0.8008	04	5.000	0.7414
05	20.000	0.804	06	50.000	0.7549	07	100.000	0.8037	08	150.000	0.8374
09	200.000	0.7926									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9957	02	1.000	1.061	03	2.000	1.1	04	5.000	1.055
05	20.000	1.18	06	50.000	1.104	07	100.000	1.124	08	150.000	1.167
09	200.000	1.102									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4876	02	1.000	0.468	03	2.000	0.4813	04	5.000	0.4647
05	20.000	0.5032	06	50.000	0.4874	07	100.000	0.5031	08	150.000	0.5158
09	200.000	0.4912									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5286	05	20.000	0.4481	06	50.000	0.4807	07	100.000	0.4894
08	200.000	0.4801									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.2976	05	20.000	0.2398	06	50.000	0.2654	07	100.000	0.2681
08	200.000	0.254									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3129	02	1.000	0.3263	03	2.000	0.3367	04	5.000	0.2814
05	20.000	0.299	06	50.000	0.2847	07	100.000	0.2963	08	150.000	0.2881
09	200.000	0.2884									

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1900101
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.448	05	20.000	1.187	06	50.000	1.263	07	100.000	1.244
08	200.000	1.096									
Trichloroethene (TCE)											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3599	02	1.000	0.2812	03	2.000	0.3421	04	5.000	0.3126
05	20.000	0.3367	06	50.000	0.3426	07	100.000	0.35	08	150.000	0.344
09	200.000	0.339									
Vinyl Chloride											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9647	02	1.000	0.8109	03	2.000	0.8428	04	5.000	0.8102
05	20.000	0.9512	06	50.000	0.9033	07	100.000	0.931	08	150.000	0.939
09	200.000	0.8451									
cis-1,2-Dichloroethene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5676	02	1.000	0.6108	03	2.000	0.5884	04	5.000	0.5891
05	20.000	0.6428	06	50.000	0.6101	07	100.000	0.631	08	150.000	0.6445
09	200.000	0.6027									
trans-1,2-Dichloroethene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5024	02	1.000	0.5017	03	2.000	0.5126	04	5.000	0.5154
05	20.000	0.5573	06	50.000	0.5219	07	100.000	0.555	08	150.000	0.5717
09	200.000	0.542									

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Summary Volatile Organic Compounds by GC/MS

Calibration ID: RC1900101
Instrument ID: R-MS-12

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	6.0	≤20	0.772	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	5.2	≤20	1.099	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	3.4	≤20	0.4891	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.9	≤20	0.4854	
Dibromofluoromethane	SURR	Average RF	% RSD	8.1	≤20	0.265	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	6.5	≤20	0.3015	0.200
Toluene-d8	SURR	Average RF	% RSD	10.4	≤20	1.248	
Trichloroethene (TCE)	TRG	Average RF	% RSD	7.1	≤20	0.3342	0.200
Vinyl Chloride	TRG	Average RF	% RSD	6.9	≤20	0.8887	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	4.3	≤20	0.6097	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	4.9	≤20	0.5311	0.100

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QA/QC Report

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1900101

Signal ID: 1

Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1900101-10	ICV/LCS 50	I:\ACQUDATA\msvoa12\Data\091219\P29749.D	09/12/2019 10:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	45.0	7.72E-1	6.951E-1	-9.970	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	44.5	1.099E0	9.77E-1	-11.070	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	42.8	4.891E-1	4.187E-1	-14.408	±30	Average RF
Tetrachloroethene (PCE)	50.0	43.0	3.015E-1	2.595E-1	-13.940	±30	Average RF
Trichloroethene (TCE)	50.0	42.4	3.342E-1	2.837E-1	-15.122	±30	Average RF
Vinyl Chloride	50.0	40.7	8.887E-1	7.242E-1	-18.507	±30	Average RF
cis-1,2-Dichloroethene	50.0	43.8	6.097E-1	5.342E-1	-12.387	±30	Average RF
trans-1,2-Dichloroethene	50.0	44.4	5.311E-1	4.712E-1	-11.283	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	49.6	4.854E-1	4.819E-1	-0.708	±30	Average RF
Dibromofluoromethane	50.0	48.7	2.65E-1	2.582E-1	-2.567	±30	Average RF
Toluene-d8	50.0	50.8	1.248E0	1.267E0	1.55	±30	Average RF

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/29/19 09:50

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUADATA\msvoa12\Data\092919\P30419.D\
Signal ID: 1

Calibration Date: 9/11/2019
Calibration ID: RC1900101
Analysis Lot: 653377
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	45.6	0.772	0.7035	-8.9	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.3	1.0987	1.0171	-7.4	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.6	0.4891	0.4557	-6.8	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	47.1	0.3015	0.2841	-5.8	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.8	0.3342	0.3331	-0.3	NA	±20	Average RF
Vinyl Chloride	50.0	48.9	0.8887	0.8687	-2.2	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	45.5	0.6097	0.555	-9.0	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	46.3	0.5311	0.4914	-7.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.3	0.4854	0.4879	0.5	NA	±20	Average RF
Dibromofluoromethane	50.0	48.9	0.265	0.2591	-2.2	NA	±20	Average RF
Toluene-d8	50.0	51.0	1.2475	1.2719	2.0	NA	±20	Average RF

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QA/QC Report

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

Service Request: R1909228
Date Analyzed: 10/01/19 10:44

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\100119\P30511.D\
Signal ID: 1

Calibration Date: 9/11/2019
Calibration ID: RC1900101
Analysis Lot: 653627
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.7	0.772	0.7214	-6.6	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.8	1.0987	1.0292	-6.3	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.2	0.4891	0.472	-3.5	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	50.1	0.3015	0.3019	0.1	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.2	0.3342	0.3422	2.4	NA	±20	Average RF
Vinyl Chloride	50.0	50.2	0.8887	0.8918	0.3	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	47.3	0.6097	0.5766	-5.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	48.2	0.5311	0.5116	-3.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	48.6	0.4854	0.4718	-2.8	NA	±20	Average RF
Dibromofluoromethane	50.0	48.6	0.265	0.2573	-2.9	NA	±20	Average RF
Toluene-d8	50.0	49.4	1.2475	1.2325	-1.2	NA	±20	Average RF

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QA/QC Report

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

Service Request: R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot: 653377
Instrument ID: R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092919\30418.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	09:20:00	
I:\ACQUDATA\msvoa12\Data\092919\30419.D\	Continuing Calibration Verification	RQ1911076-02	9/29/2019	09:50:00	
I:\ACQUDATA\msvoa12\Data\092919\30420.D\	Lab Control Sample	RQ1911076-03	9/29/2019	10:18:00	
I:\ACQUDATA\msvoa12\Data\092919\30423.D\	Method Blank	RQ1911076-04	9/29/2019	11:27:00	
I:\ACQUDATA\msvoa12\Data\092919\30424.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	11:49:00	
I:\ACQUDATA\msvoa12\Data\092919\30425.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	12:10:00	
I:\ACQUDATA\msvoa12\Data\092919\30426.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	12:32:00	
I:\ACQUDATA\msvoa12\Data\092919\30427.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	12:54:00	
I:\ACQUDATA\msvoa12\Data\092919\30428.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	13:16:00	
I:\ACQUDATA\msvoa12\Data\092919\30429.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	13:37:00	
I:\ACQUDATA\msvoa12\Data\092919\30430.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	13:59:00	
I:\ACQUDATA\msvoa12\Data\092919\30431.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	14:21:00	
I:\ACQUDATA\msvoa12\Data\092919\30432.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	14:43:00	
I:\ACQUDATA\msvoa12\Data\092919\30433.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	15:04:00	
I:\ACQUDATA\msvoa12\Data\092919\30434.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	15:26:00	
I:\ACQUDATA\msvoa12\Data\092919\30435.D\	TB 092319	R1909228-001	9/29/2019	15:48:00	
I:\ACQUDATA\msvoa12\Data\092919\30436.D\	FB 092319	R1909228-006	9/29/2019	16:09:00	
I:\ACQUDATA\msvoa12\Data\092919\30437.D\	MW-13 092319	R1909228-004	9/29/2019	16:31:00	
I:\ACQUDATA\msvoa12\Data\092919\30438.D\	MW-10 092319	R1909228-005	9/29/2019	16:53:00	
I:\ACQUDATA\msvoa12\Data\092919\30439.D\	DMW-3 092319	R1909228-008	9/29/2019	17:15:00	
I:\ACQUDATA\msvoa12\Data\092919\30442.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	18:20:00	
I:\ACQUDATA\msvoa12\Data\092919\30443.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	18:41:00	
I:\ACQUDATA\msvoa12\Data\092919\30445.D\	ZZZZZZZZ	ZZZZZZZZ	9/29/2019	19:25:00	

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QA/QC Report

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

Service Request:R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:653377
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\092919\P30446.D\	ZZZZZZZ	ZZZZZZZ	9/29/2019	19:47:00	
I:\ACQUDATA\msvoa12\Data\092919\P30447.D\	ZZZZZZZ	ZZZZZZZ	9/29/2019	20:08:00	

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QA/QC Report

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

Service Request:R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:653627
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	10:15:00	
P30510.D\					
I:\ACQUDATA\msvoa12\Data\100119\	Continuing Calibration Verification	RQ1911182-02	10/1/2019	10:44:00	
P30511.D\					
I:\ACQUDATA\msvoa12\Data\100119\	Lab Control Sample	RQ1911182-03	10/1/2019	11:13:00	
P30512.D\					
I:\ACQUDATA\msvoa12\Data\100119\	Method Blank	RQ1911182-04	10/1/2019	12:24:00	
P30515.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	12:54:00	
P30516.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	13:16:00	
P30517.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	13:38:00	
P30518.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	14:00:00	
P30519.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	14:22:00	
P30520.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	14:44:00	
P30521.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	15:06:00	
P30522.D\					
I:\ACQUDATA\msvoa12\Data\100119\	MW-9 092319	R1909228-007	10/1/2019	15:27:00	
P30523.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	15:49:00	
P30524.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	16:55:00	
P30527.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	17:16:00	
P30528.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	17:38:00	
P30529.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	18:00:00	
P30530.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	18:22:00	
P30531.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	18:43:00	
P30532.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	19:05:00	
P30533.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	19:27:00	
P30534.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	19:49:00	
P30535.D\					
I:\ACQUDATA\msvoa12\Data\100119\	ZZZZZZZZ	ZZZZZZZZ	10/1/2019	20:10:00	
P30536.D\					

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QA/QC Report

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

Service Request:R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method:

Analysis Lot:653627
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa12\Data\100119\P30537.D\	ZZZZZZZ	ZZZZZZZ	10/1/2019	20:32:00	
I:\ACQUDATA\msvoa12\Data\100119\P30538.D\	ZZZZZZZ	ZZZZZZZ	10/1/2019	20:54:00	
I:\ACQUDATA\msvoa12\Data\100119\P30539.D\	ZZZZZZZ	ZZZZZZZ	10/1/2019	21:16:00	

Tune Method: MD91119

Run Method: ↓

LIMS Run#: 685617

100

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	RUC							P20416		
2	↓							P20417		
3	TUNE							P20418	Y	(auto) 9:20
1	ECV							P20419	YC	
1	LC5-FP							P20420	YD	
1	RUC							P20421	(C)	not c/b
2	mobile-wump							P20422	YB	
3	mobile-FP							P20423	YB	
4	P1909172.018	10	5/50mils	DD	3	1	12	P20424	Y	Fromy
5	↓	10	↓	↓	↓	2	12	P20425	Y	↓
6	P1909149.001	1.0	15/50mils	6056	3	3	12	P20426	(S)	DD F113
7	P1909226.001	1.0		6524	4	1	12	P20427	Y	
8	↓	1.0				1	12	P20428	Y	
9	003	1.0				1	12	P20429	Y	
10	004	1.0				1	12	P20430	Y	
11	005	1.0				1	12	P20431	Y	
12	006	1.0				1	12	P20432	Y	
13	007	1.0				1	12	P20433	Y	
14	↓	1.0			↓	↓	1	P20434	Y	
15	P1909228.001	1.0	P1909228.	6646	4	1	12	P20435	Y	
16	P1909228.006	1.0				1	12	P20436	Y	
17	004	1.0				1	12	P20437	Y	
18	005	1.0				1	12	P20438	Y	
19	008	1.0				1	12	P20439	Y	
20	↓	10	5/50mils	↓	↓	1	12	P20440	(D)	not 1.0
21	RUC					-	-	P20441	-	
22	P1909228.007	1.0		19396	2	1	12	P20442	Y	
23	005	1.0				1	12	P20443	Y	
24	↓	100	1/100mils	↓	↓	1	12	P20444	(A)	not 2.5
25	P1909226.002	1.0	ms	6524	4	2	12	P20445	YD	
26	↓	1.0	msd	↓	↓	3	12	P20446	YD	
27	closing cvr					-	-	P20447	YC	20:08 ✓

25 BUL

All samples = 5 mL + _____

5 mL combined IS/Surf.

Combined IS/Surf

2015

500

Primary Oct : 202658

→
↑
↓
→

JD Secondary Wt 102.74 = 500

- 10.6vC Sufrigate 50 : 263 10-3

$$\frac{101.540}{101.540}$$
Primary K⁺ : 202539 $\mu \rightarrow \mu \nu$

500 Secondary Oct : 655395 / 200410 7.0

Internal Site 50: 06/3/06

005106

Primary	16	: 20382

CG

Secondary 16	805-195	OK
Secondary 17	705-2110	

= LCS / y. juC Reagells.

Primary HSL	403355

Secondary NFE 40535611

<

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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 14:50
Date Received: 09/24/19 09:25

Sample Name: MW-17 092319
Lab Code: R1909228-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.1	1.0	0.21	1	09/25/19 15:31	
1,1-Dichloroethane (1,1-DCA)	31	1.0	0.20	1	09/25/19 15:31	
1,1-Dichloroethene (1,1-DCE)	2.6	1.0	0.25	1	09/25/19 15:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/25/19 15:31	
Trichloroethene (TCE)	32	1.0	0.20	1	09/25/19 15:31	
Vinyl Chloride	0.25 J	1.0	0.20	1	09/25/19 15:31	
cis-1,2-Dichloroethene	66	1.0	0.23	1	09/25/19 15:31	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 15:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/25/19 15:31	
Dibromofluoromethane	97	89 - 119	09/25/19 15:31	
Toluene-d8	99	87 - 121	09/25/19 15:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 15:25
Date Received: 09/24/19 09:25

Sample Name: MW-11 092319
Lab Code: R1909228-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2.1	10	09/26/19 16:18	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2.0	10	09/26/19 16:18	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2.5	10	09/26/19 16:18	
Tetrachloroethene (PCE)	10 U	10	2.1	10	09/26/19 16:18	
Trichloroethene (TCE)	10 U	10	2.0	10	09/26/19 16:18	
Vinyl Chloride	10 U	10	2.0	10	09/26/19 16:18	
cis-1,2-Dichloroethene	10 U	10	2.3	10	09/26/19 16:18	
trans-1,2-Dichloroethene	10 U	10	2.0	10	09/26/19 16:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/26/19 16:18	
Dibromofluoromethane	98	89 - 119	09/26/19 16:18	
Toluene-d8	101	87 - 121	09/26/19 16:18	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 17:15
Date Received: 09/24/19 09:25

Sample Name: MW-8 092319
Lab Code: R1909228-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.7	1.0	0.21	1	09/25/19 16:16	
1,1-Dichloroethane (1,1-DCA)	3.2	1.0	0.20	1	09/25/19 16:16	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/25/19 16:16	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	09/25/19 16:16	
Trichloroethene (TCE)	13	1.0	0.20	1	09/25/19 16:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/25/19 16:16	
cis-1,2-Dichloroethene	4.1	1.0	0.23	1	09/25/19 16:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 16:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/25/19 16:16	
Dibromofluoromethane	100	89 - 119	09/25/19 16:16	
Toluene-d8	101	87 - 121	09/25/19 16:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19 17:21
Date Received: 09/24/19 09:25

Sample Name: MW-16 092319
Lab Code: R1909228-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	7.7	1.0	0.21	1	09/25/19 16:38	
1,1-Dichloroethane (1,1-DCA)	23	1.0	0.20	1	09/25/19 16:38	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	09/25/19 16:38	
Tetrachloroethene (PCE)	0.27 J	1.0	0.21	1	09/25/19 16:38	
Trichloroethene (TCE)	6.6	1.0	0.20	1	09/25/19 16:38	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/25/19 16:38	
cis-1,2-Dichloroethene	32	1.0	0.23	1	09/25/19 16:38	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/25/19 16:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/25/19 16:38	
Dibromofluoromethane	97	89 - 119	09/25/19 16:38	
Toluene-d8	99	87 - 121	09/25/19 16:38	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1909228
Date Collected: 09/23/19
Date Received: 09/24/19 09:25

Sample Name: DUP 092319
Lab Code: R1909228-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	7.6	1.0	0.21	1	09/26/19 16:40	
1,1-Dichloroethane (1,1-DCA)	23	1.0	0.20	1	09/26/19 16:40	
1,1-Dichloroethene (1,1-DCE)	0.28 J	1.0	0.25	1	09/26/19 16:40	
Tetrachloroethene (PCE)	0.27 J	1.0	0.21	1	09/26/19 16:40	
Trichloroethene (TCE)	7.1	1.0	0.20	1	09/26/19 16:40	
Vinyl Chloride	1.0 U	1.0	0.20	1	09/26/19 16:40	
cis-1,2-Dichloroethene	35	1.0	0.23	1	09/26/19 16:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	09/26/19 16:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/26/19 16:40	
Dibromofluoromethane	99	89 - 119	09/26/19 16:40	
Toluene-d8	100	87 - 121	09/26/19 16:40	

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0230.D
 Acq On : 25 Sep 2019 3:31 pm
 Operator : F.NAEGLER
 Sample : R1909228-002|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

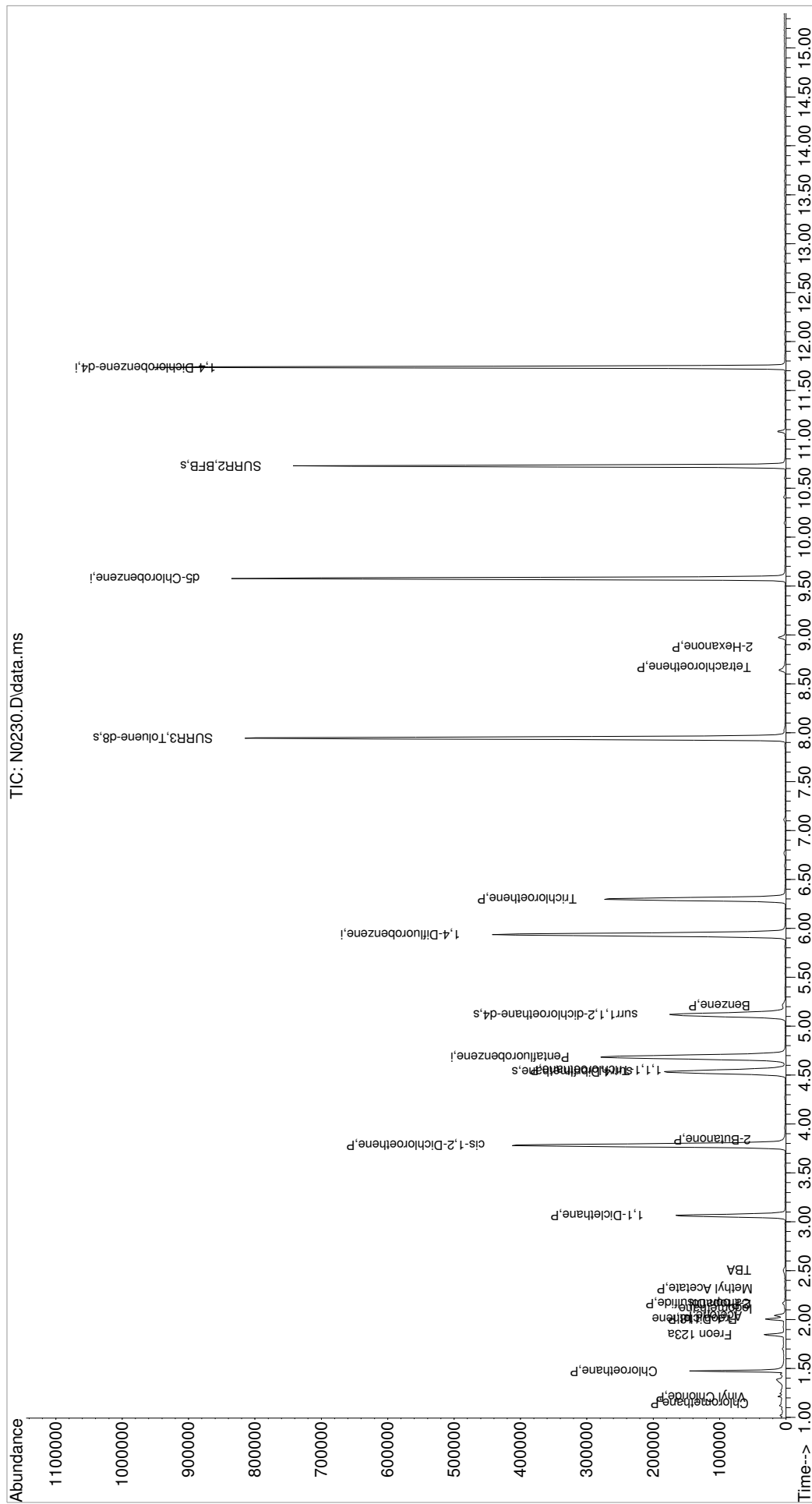
Quant Time: Sep 29 13:18:51 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

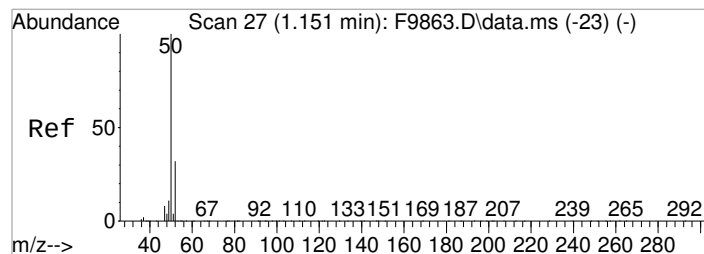
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	282249	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	425871	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	367827	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	186537	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	131634	48.33	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	96.66%	
47) surr1,1,2-dichloroetha...	5.120	65	175166	55.03	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.06%	
64) SURR3,Toluene-d8	7.943	98	519546	49.33	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.66%	
69) SURR2,BFB	10.729	95	192044	48.27	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.54%	
Target Compounds						
						Qvalue
3) Chloromethane	1.145	50	806	0.21	ug/L	# 62
4) Vinyl Chloride	1.212	62	966	0.25	ug/L	# 21
6) Chloroethane	1.475	64	74131	34.48	ug/L	97
10) Freon 123a	1.846	67	11488	3.43	ug/L	87
13) 1,1-Dicethene	2.005	96	6697	2.58	ug/L	98
14) Freon 113	2.011	101	1232	0.47	ug/L	# 68
15) Acetone	2.042	43	14577	8.76	ug/L	97
16) 2-Propanol	2.163	45	1355	4.29	ug/L	99
17) Iodomethane	2.115	142	420	1.13	ug/L	75
18) Carbon Disulfide	2.170	76	2483	0.34	ug/L	92
21) Methyl Acetate	2.316	43	703	0.22	ug/L	85
23) TBA	2.511	59	2218	4.40	ug/L	89
27) 1,1-Dicethane	3.066	63	157196	30.54	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	209155	66.15	ug/L	91
34) 2-Butanone	3.840	43	2676	1.23	ug/L	93
40) 1,1,1-Trichloroethane	4.547	97	21916	5.13	ug/L	97
48) Benzene	5.212	78	5113	0.45	ug/L	96
53) Trichloroethene	6.303	130	106120	31.58	ug/L	99
71) Tetrachloroethene	8.668	164	504	0.20	ug/L	# 72
72) 2-Hexanone	8.882	43	778	0.28	ug/L	95

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

Data Path : I:\ACQUDATA\MSV0A14\Data\092519\
Data File : N0230.D
Acq On : 25 Sep 2019 3:31 pm
Operator : F.NAEGLER
Sample : R1909228-002|1.0
Misc : VERINA 7979 T4
ALS Vial : 10 Sample Multiplier: 1
Inst : MSV0A14

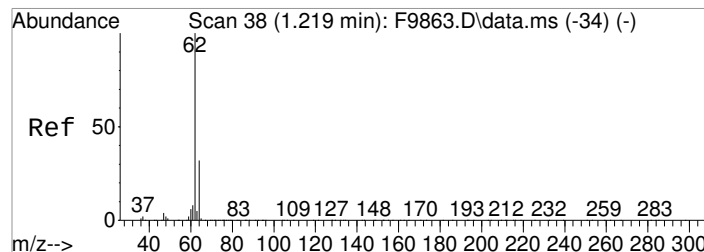
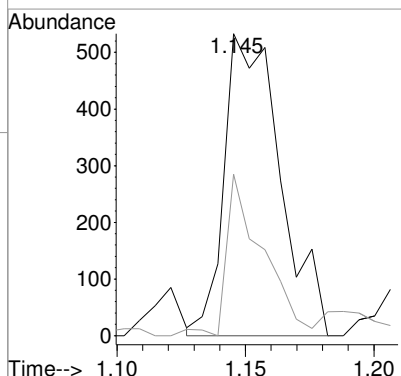
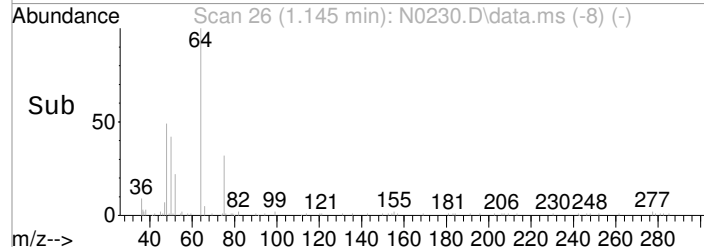
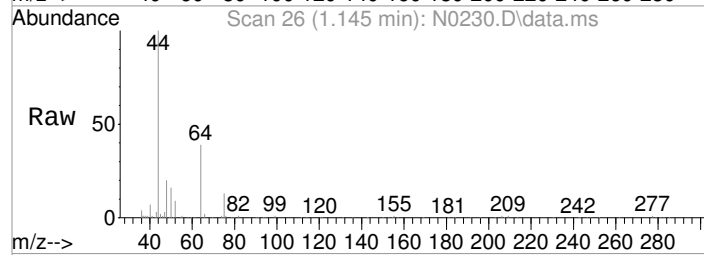
Quant Time: Sep 29 13:18:51 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\W0911119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration





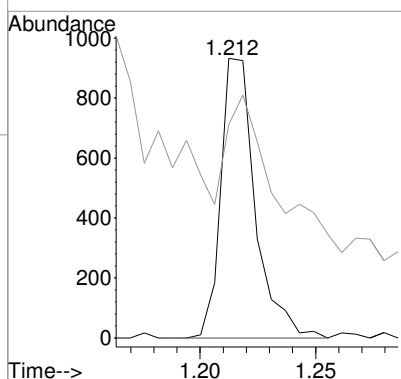
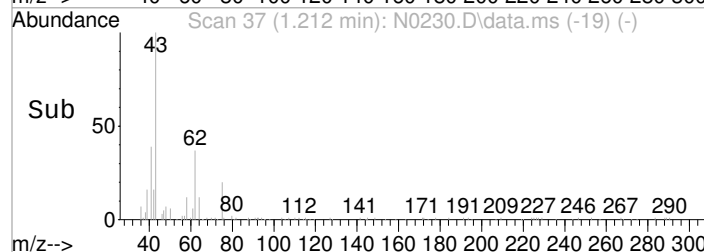
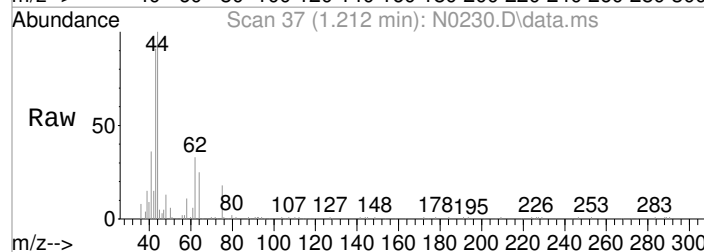
#3
 Chloromethane
 Concen: 0.21 ug/L
 RT: 1.145 min Scan# 26
 Delta R.T. -0.006 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

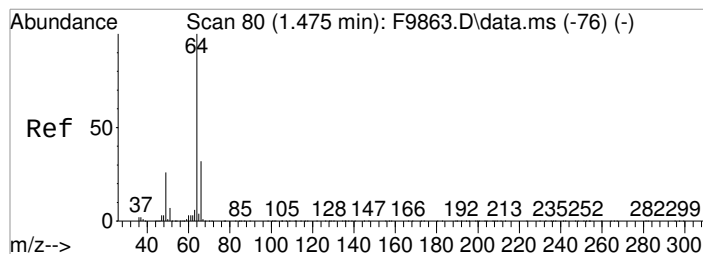
Tgt Ion: 50 Resp: 806
 Ion Ratio Lower Upper
 50 100
 52 53.5 12.2 52.2#



#4
 Vinyl Chloride
 Concen: 0.25 ug/L
 RT: 1.212 min Scan# 37
 Delta R.T. -0.006 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

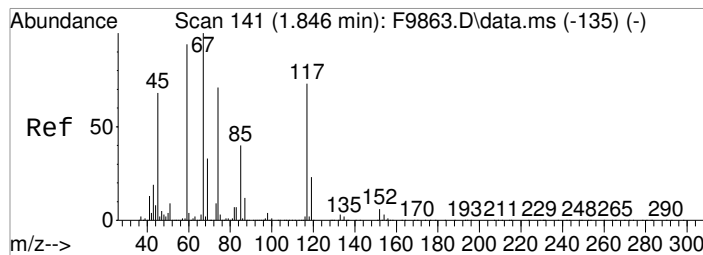
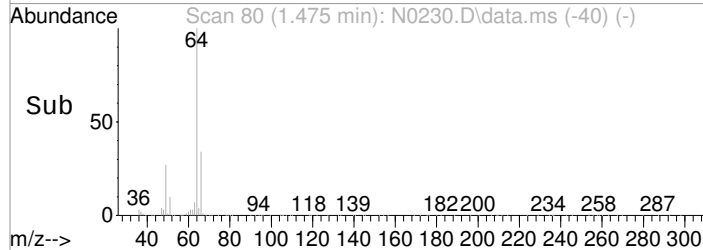
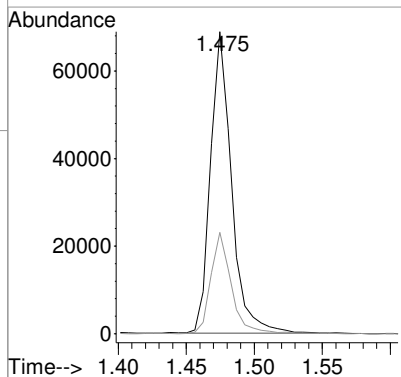
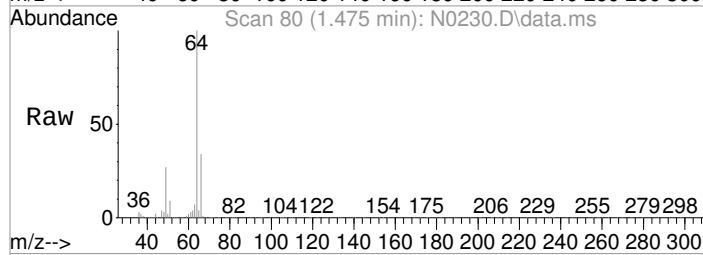
Tgt Ion: 62 Resp: 966
 Ion Ratio Lower Upper
 62 100
 64 76.4 12.1 52.1#





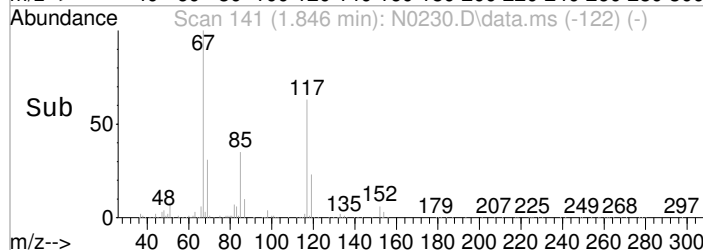
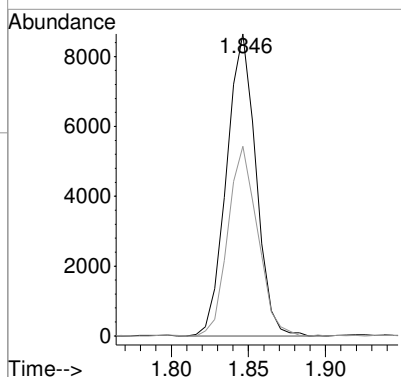
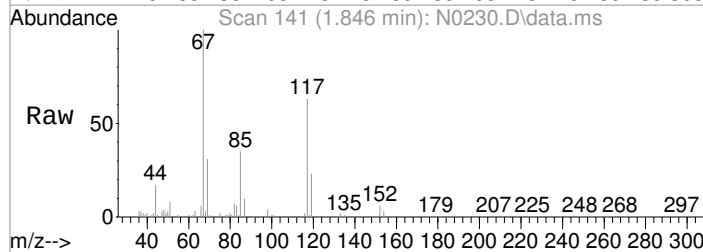
#6
 Chloroethane
 Concen: 34.48 ug/L
 RT: 1.475 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

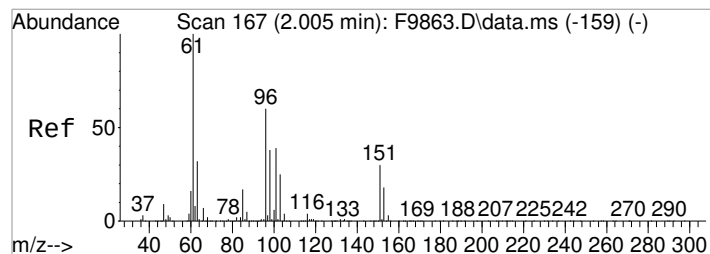
Tgt Ion: 64 Resp: 74131
 Ion Ratio Lower Upper
 64 100
 66 33.5 11.6 51.6



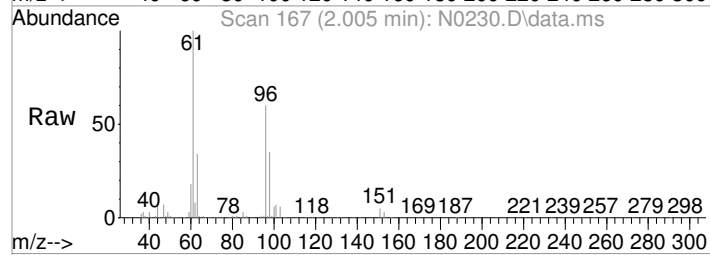
#10
 Freon 123a
 Concen: 3.43 ug/L
 RT: 1.846 min Scan# 141
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

Tgt Ion: 67 Resp: 11488
 Ion Ratio Lower Upper
 67 100
 117 62.8 53.4 93.4

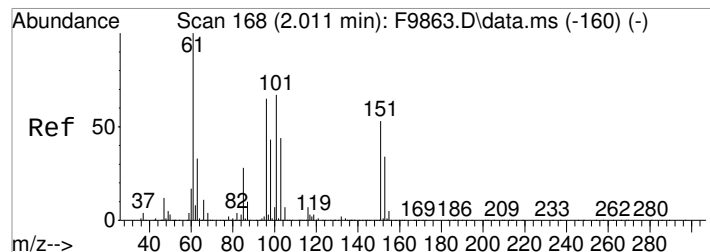
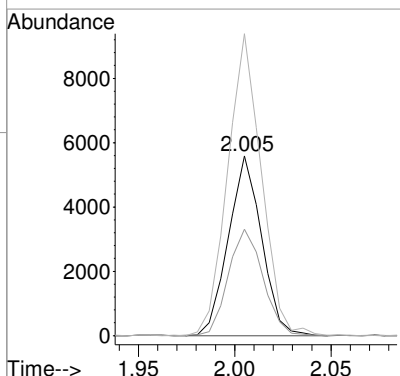
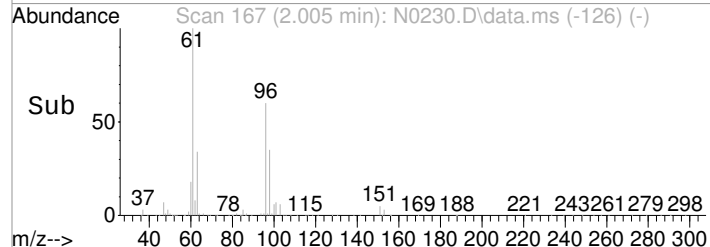




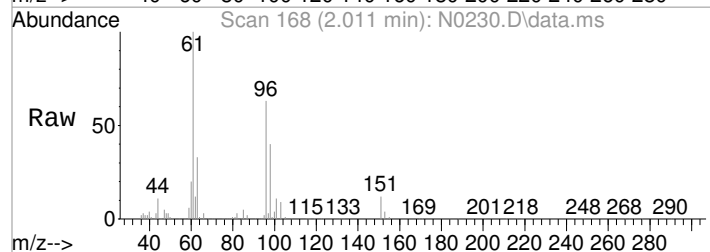
#13
 1,1-Dicethene
 Concen: 2.58 ug/L
 RT: 2.005 min Scan# 167
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm



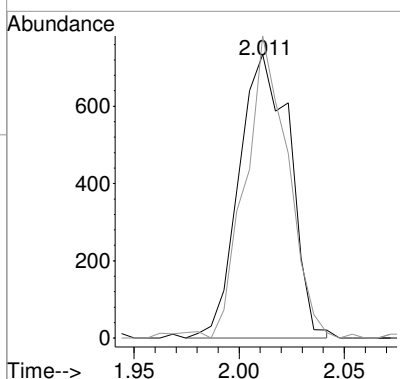
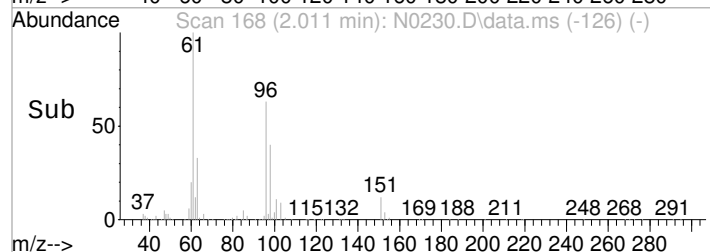
Tgt Ion: 96 Resp: 6697
 Ion Ratio Lower Upper
 96 100
 98 59.3 43.9 83.9
 61 168.0 146.8 186.8

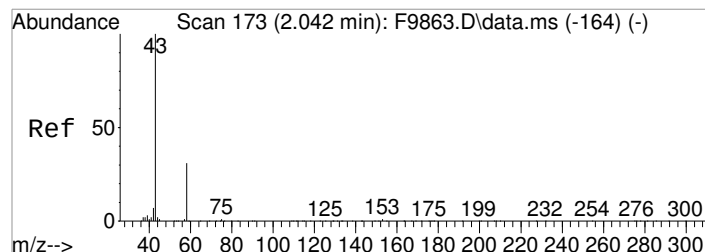


#14
 Freon 113
 Concen: 0.47 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm



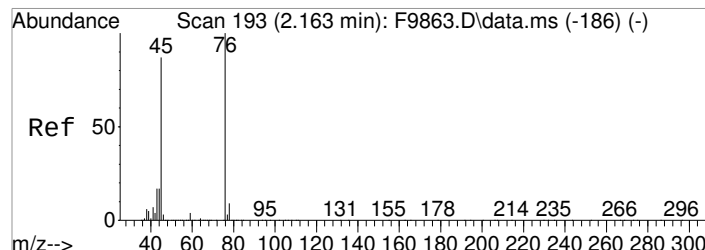
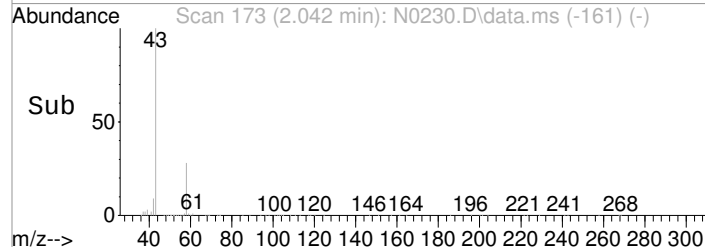
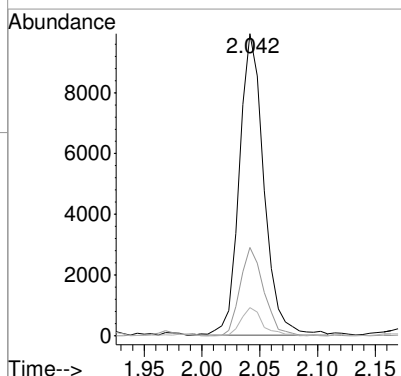
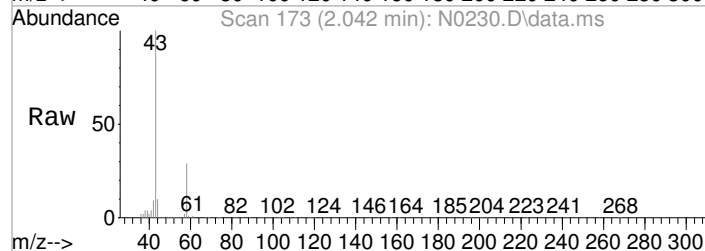
Tgt Ion: 101 Resp: 1232
 Ion Ratio Lower Upper
 101 100
 151 106.5 58.4 98.4#





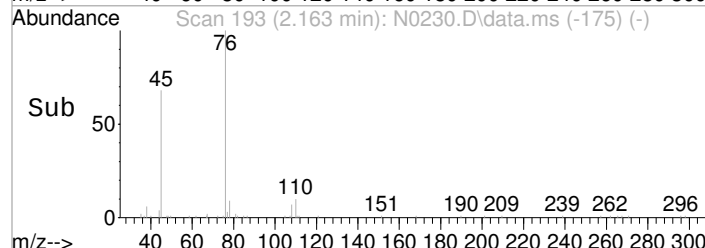
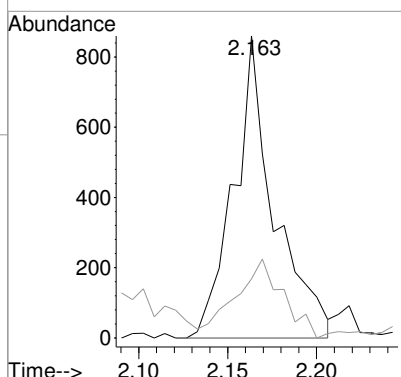
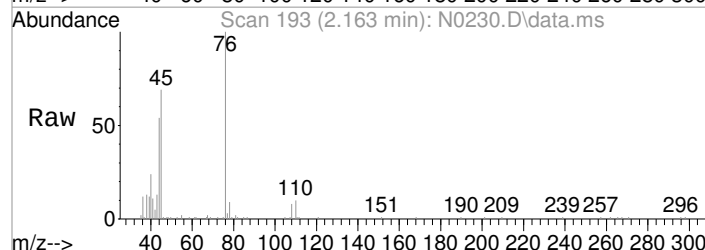
#15
 Acetone
 Concen: 8.76 ug/L
 RT: 2.042 min Scan# 173
 Delta R.T. 0.001 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

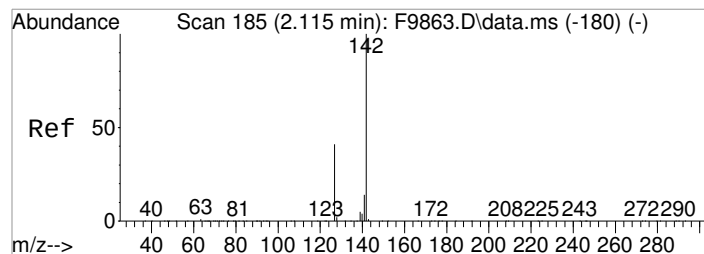
Tgt Ion: 43 Resp: 14577
 Ion Ratio Lower Upper
 43 100
 58 29.3 10.7 50.7
 42 9.3 0.0 27.6



#16
 2-Propanol
 Concen: 4.29 ug/L
 RT: 2.163 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

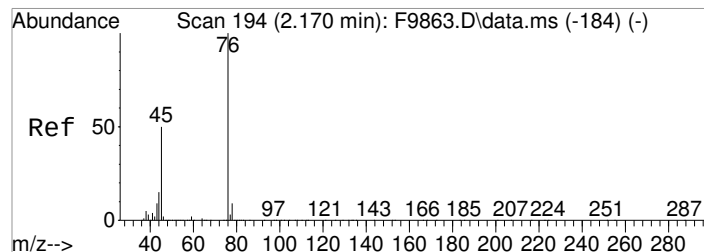
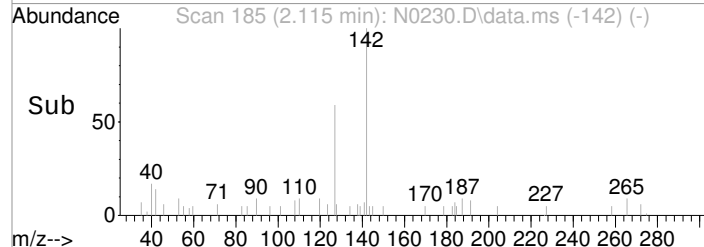
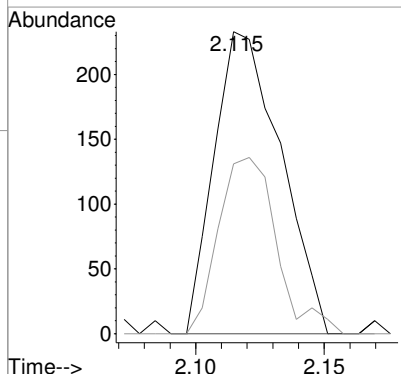
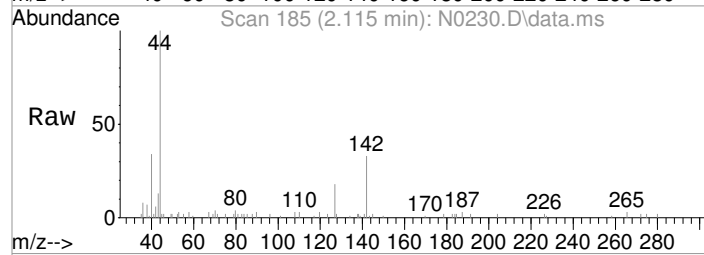
Tgt Ion: 45 Resp: 1355
 Ion Ratio Lower Upper
 45 100
 43 19.5 0.0 39.2





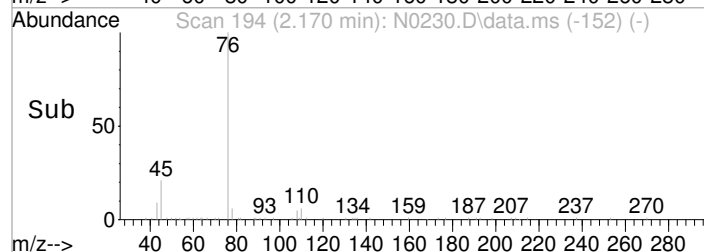
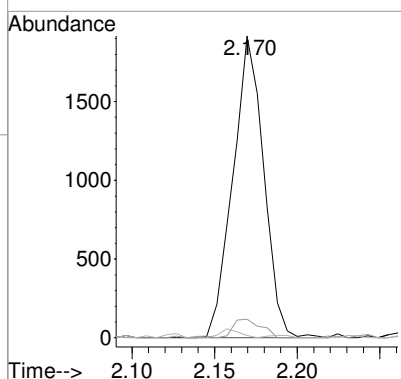
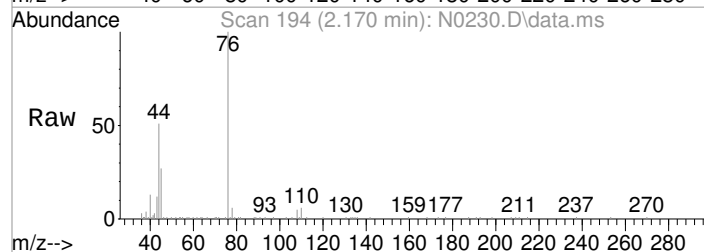
#17
 Iodomethane
 Concen: 1.13 ug/L
 RT: 2.115 min Scan# 185
 Delta R.T. 0.001 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

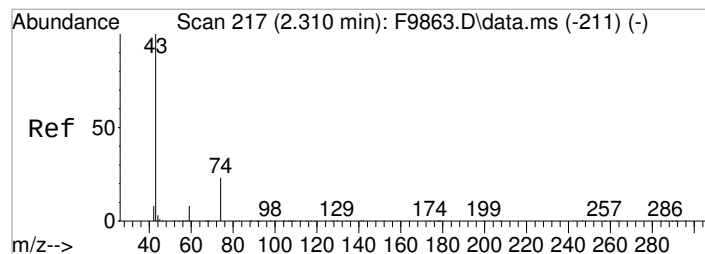
Tgt Ion: 142 Resp: 420
 Ion Ratio Lower Upper
 142 100
 127 56.2 20.6 60.6



#18
 Carbon Disulfide
 Concen: 0.34 ug/L
 RT: 2.170 min Scan# 194
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

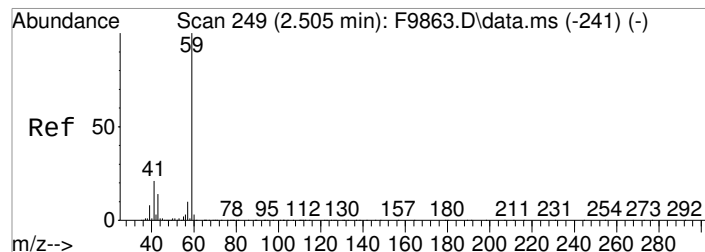
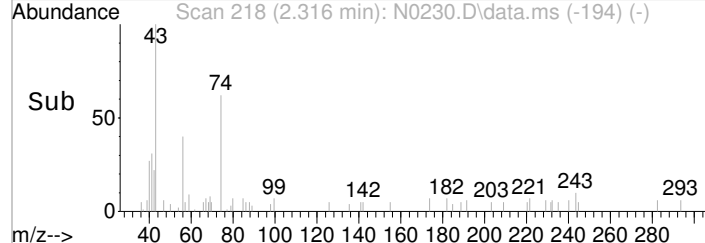
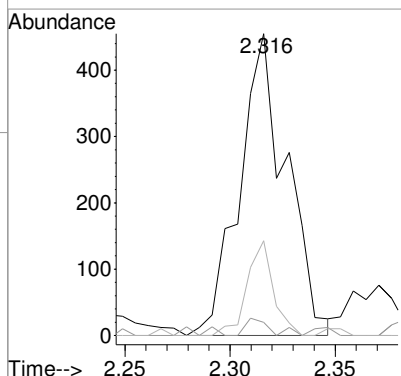
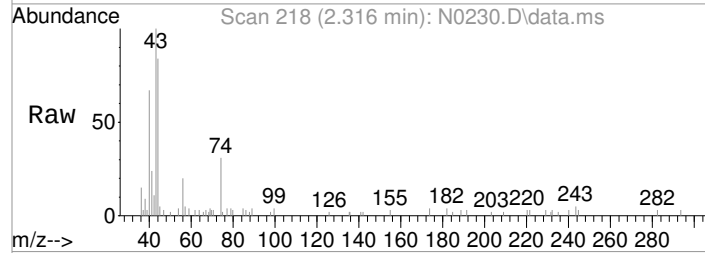
Tgt Ion: 76 Resp: 2483
 Ion Ratio Lower Upper
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 78 6.2 0.0 29.2
 77 0.8 0.0 22.5





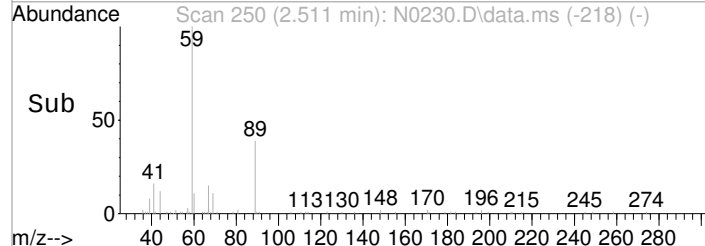
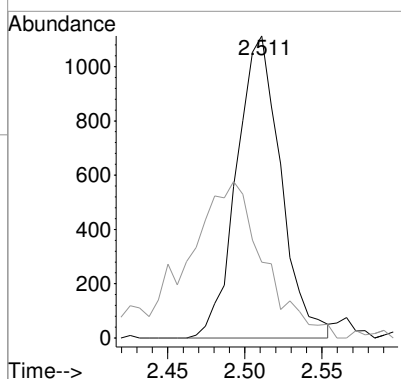
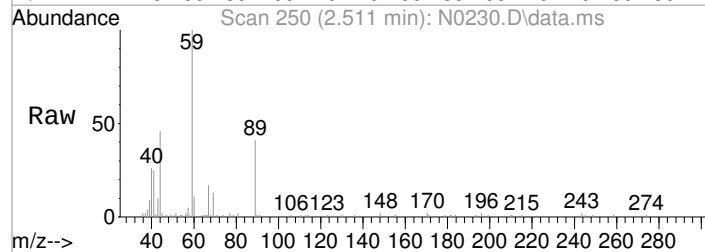
#21
 Methyl Acetate
 Concen: 0.22 ug/L
 RT: 2.316 min Scan# 218
 Delta R.T. 0.006 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

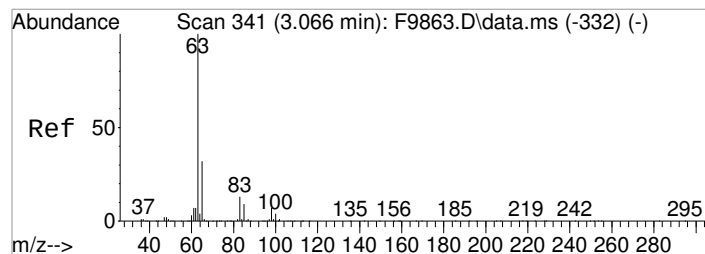
Tgt Ion:	43	Resp:	703
Ion Ratio		Lower	Upper
43	100		
59	4.4	0.0	28.2
74	31.4	3.2	43.2



#23
 TBA
 Concen: 4.40 ug/L
 RT: 2.511 min Scan# 250
 Delta R.T. 0.006 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

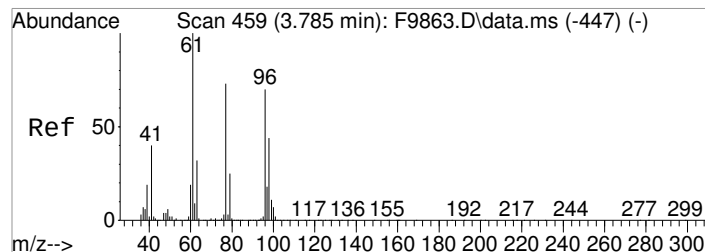
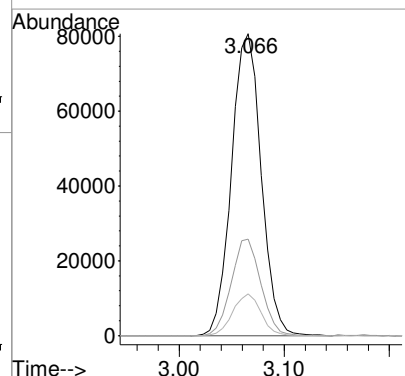
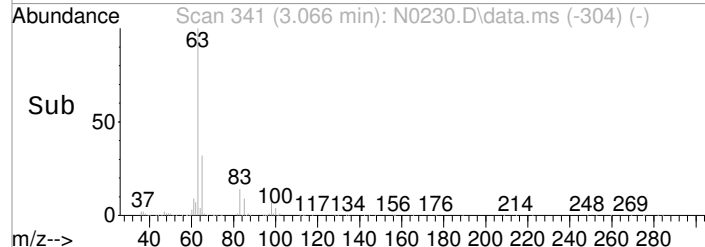
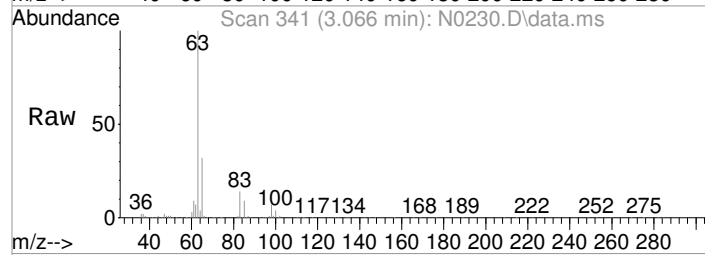
Tgt Ion:	59	Resp:	2218
Ion Ratio		Lower	Upper
59	100		
41	26.5	1.3	41.3





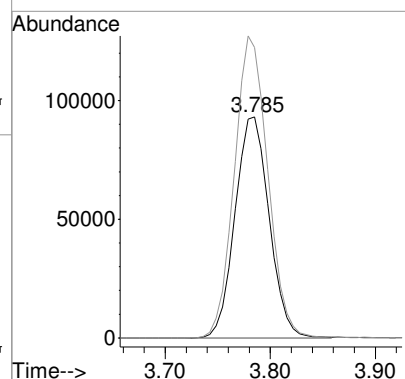
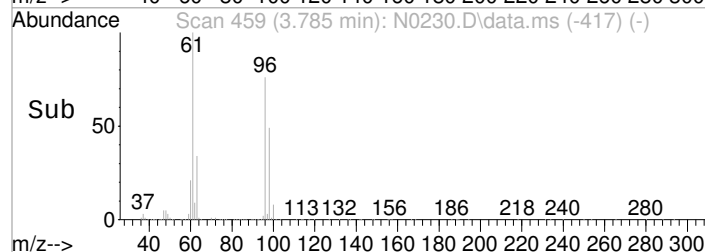
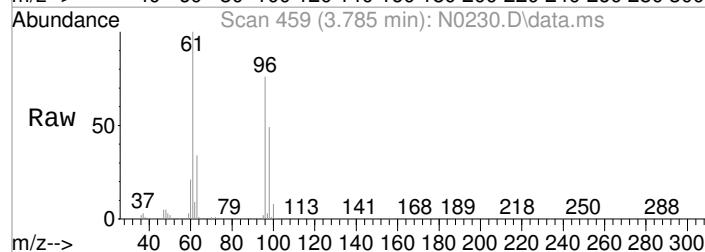
#27
 1,1-Dichloroethane
 Concen: 30.54 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

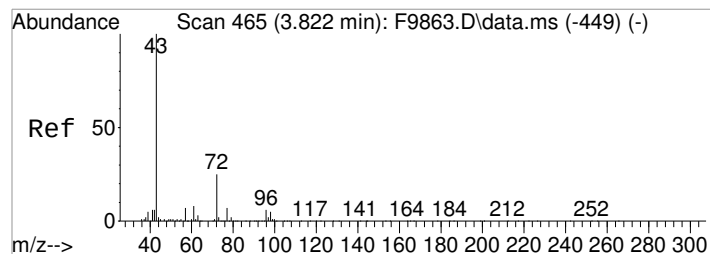
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.9	12.1	52.1
83	13.9	0.0	32.7



#33
 cis-1,2-Dichloroethene
 Concen: 66.15 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

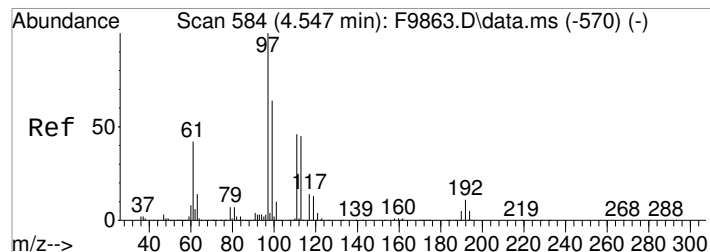
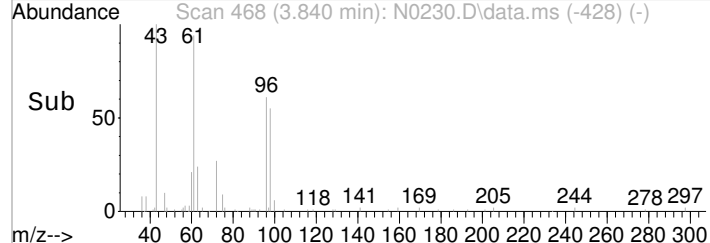
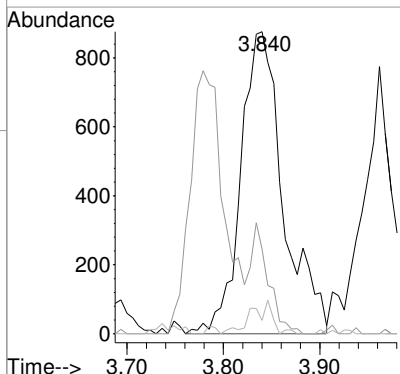
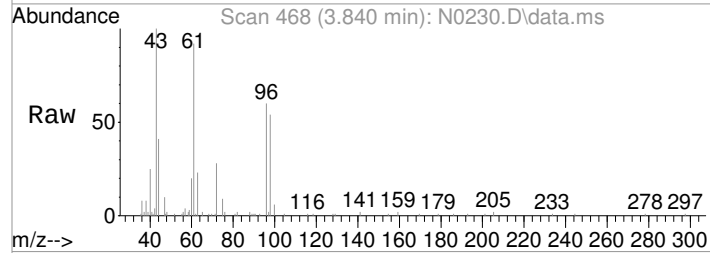
Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.3	122.8	162.8





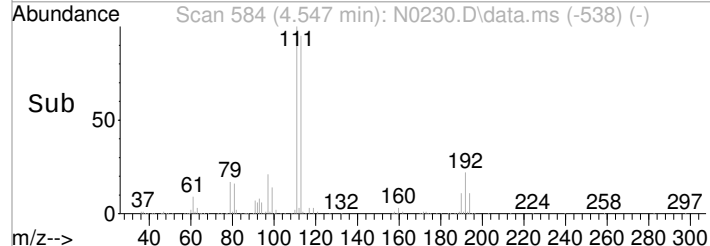
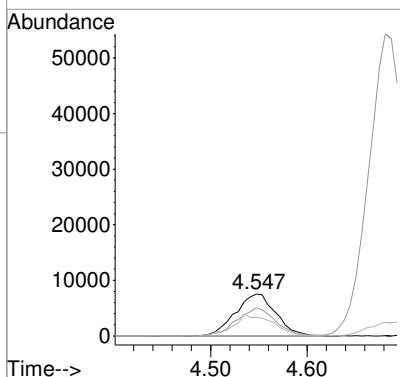
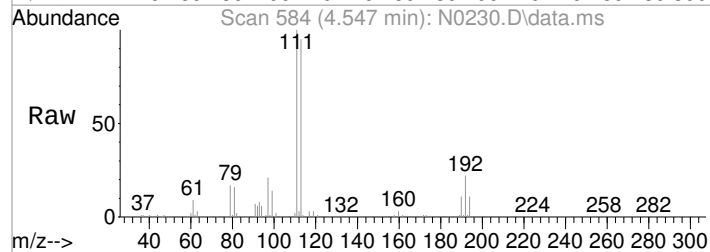
#34
 2-Butanone
 Concen: 1.23 ug/L
 RT: 3.840 min Scan# 468
 Delta R.T. 0.018 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

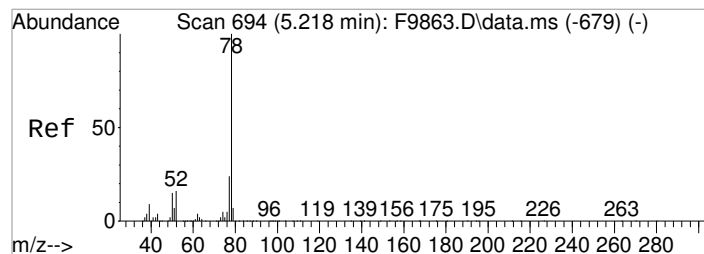
Tgt Ion:	43	Resp:	2676
Ion Ratio		Lower	Upper
43	100		
72	28.1	4.9	44.9
57	4.5	0.0	27.6



#40
 1,1,1-Trichloroethane
 Concen: 5.13 ug/L
 RT: 4.547 min Scan# 584
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

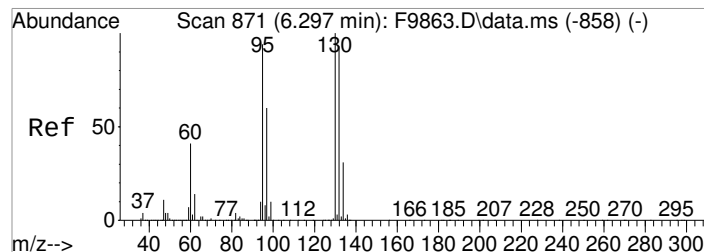
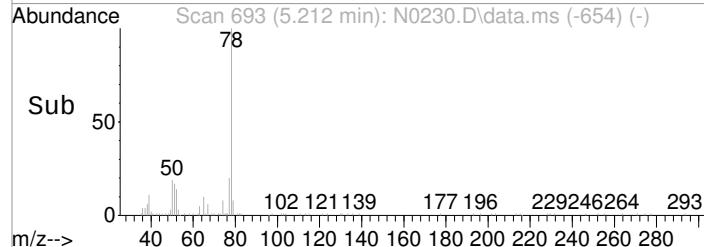
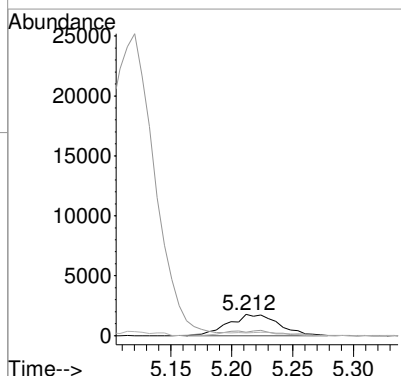
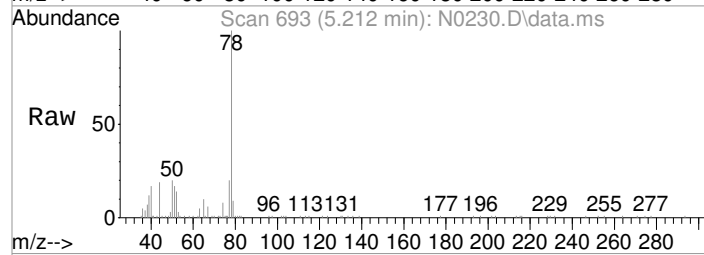
Tgt Ion:	97	Resp:	21916
Ion Ratio		Lower	Upper
97	100		
99	66.9	44.4	84.4
61	43.9	22.3	62.3





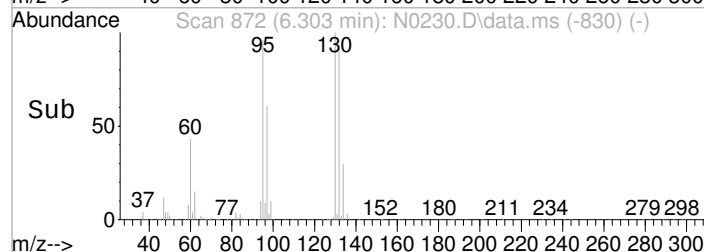
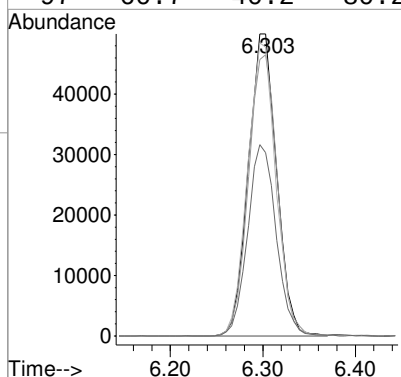
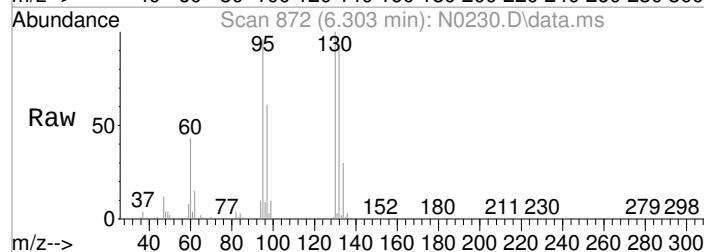
#48
 Benzene
 Concen: 0.45 ug/L
 RT: 5.212 min Scan# 693
 Delta R.T. -0.006 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

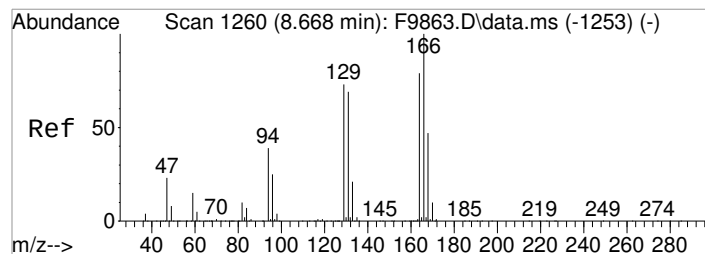
Tgt Ion:	78	Resp:	5113
Ion Ratio		Lower	Upper
78	100		
51	16.7	0.0	36.4
52	13.6	0.0	36.4



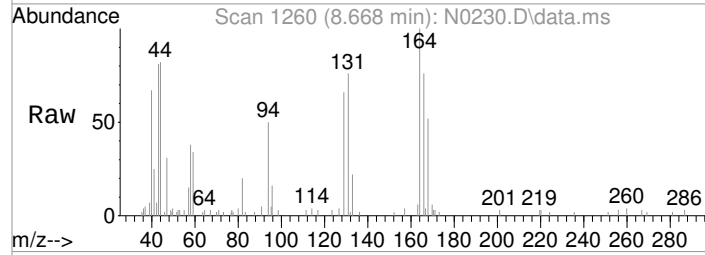
#53
 Trichloroethene
 Concen: 31.58 ug/L
 RT: 6.303 min Scan# 872
 Delta R.T. 0.006 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm

Tgt Ion:	130	Resp:	106120
Ion Ratio		Lower	Upper
130	100		
132	93.1	73.2	113.2
95	95.6	74.3	114.3
97	60.7	40.2	80.2

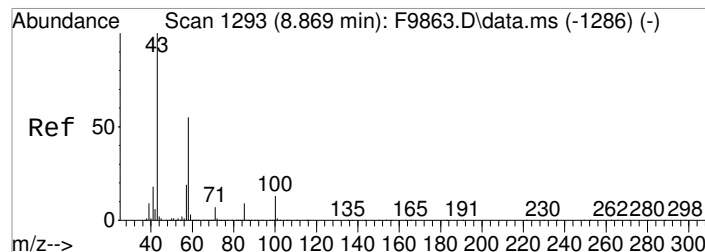
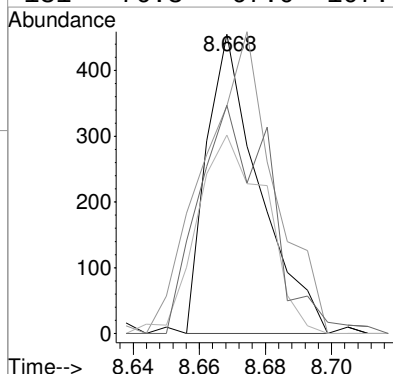
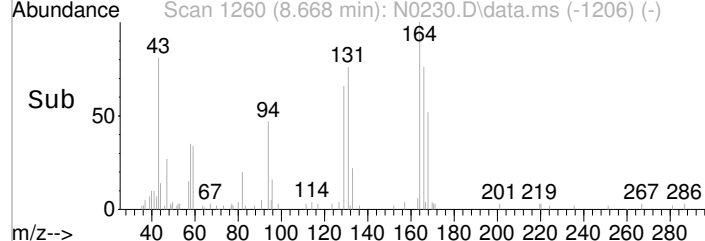




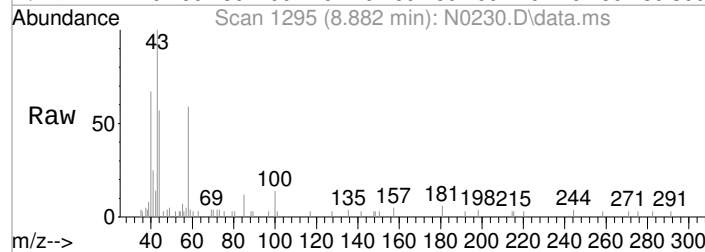
#71
 Tetrachloroethene
 Concen: 0.20 ug/L
 RT: 8.668 min Scan# 1260
 Delta R.T. 0.000 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm



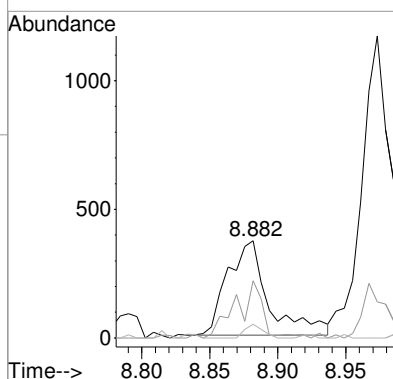
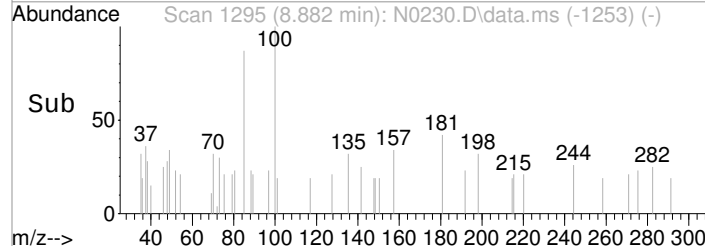
Tgt Ion	164	Resp:	504
Ion Ratio	Lower	Upper	
164	100		
166	79.8	106.0	146.0#
129	66.4	72.1	112.1#
131	76.3	67.0	107.0



#72
 2-Hexanone
 Concen: 0.28 ug/L
 RT: 8.882 min Scan# 1295
 Delta R.T. 0.012 min
 Lab File: N0230.D
 Acq: 25 Sep 2019 3:31 pm



Tgt Ion	43	Resp:	778
Ion Ratio	Lower	Upper	
43	100		
58	58.7	34.8	74.8
100	14.0	0.0	33.3



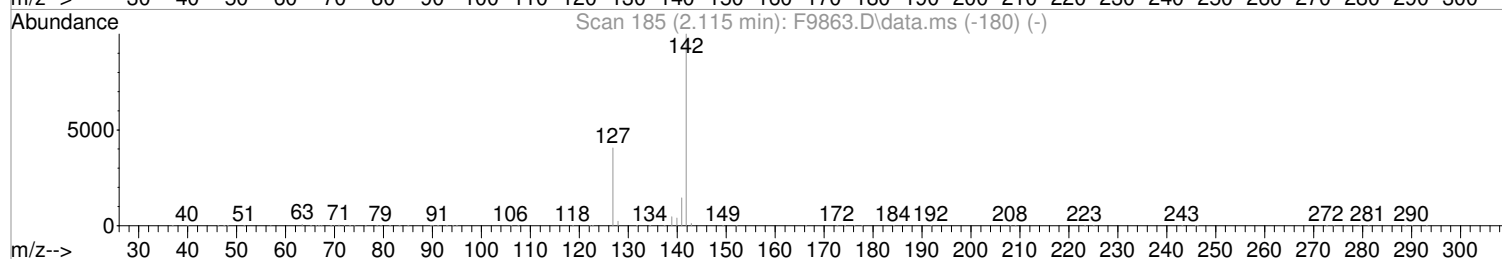
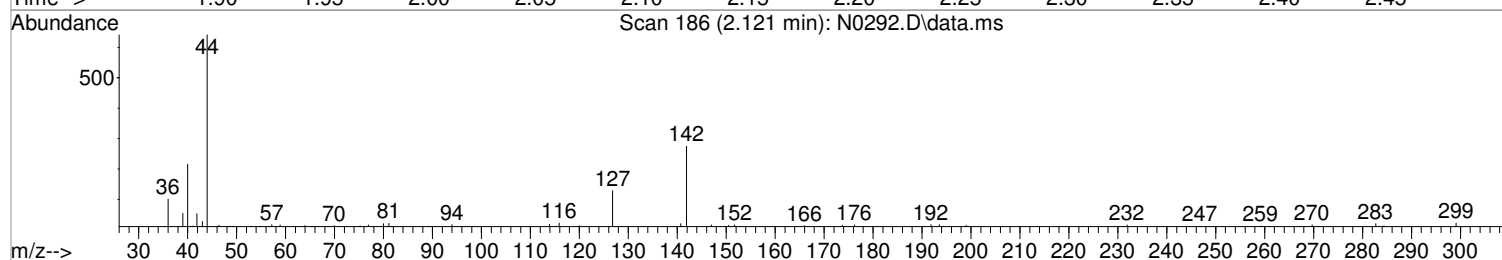
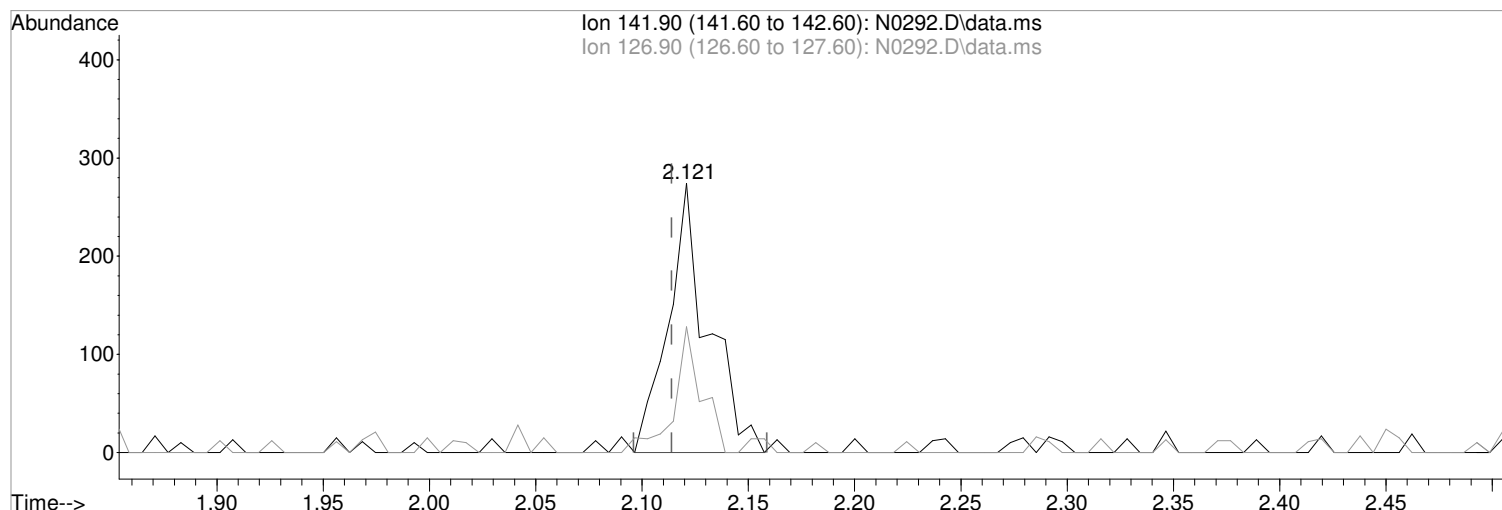
Quantitation Report (Qedit)

1st *FJ* 09/30/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
Data File : N0292.D
Acq On : 26 Sep 2019 4:18 pm
Operator : F.NAEGLER
Sample : R1909228-003|10.0
Misc : VERINA 7979 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 17:16:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



TIC: N0292.D\data.ms

(17) Iodomethane

2.121min (+0.007) 1.10 ug/L m

response 354

Ion	Exp%	Act%
141.90	100	100
126.90	40.60	46.72
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/30/19

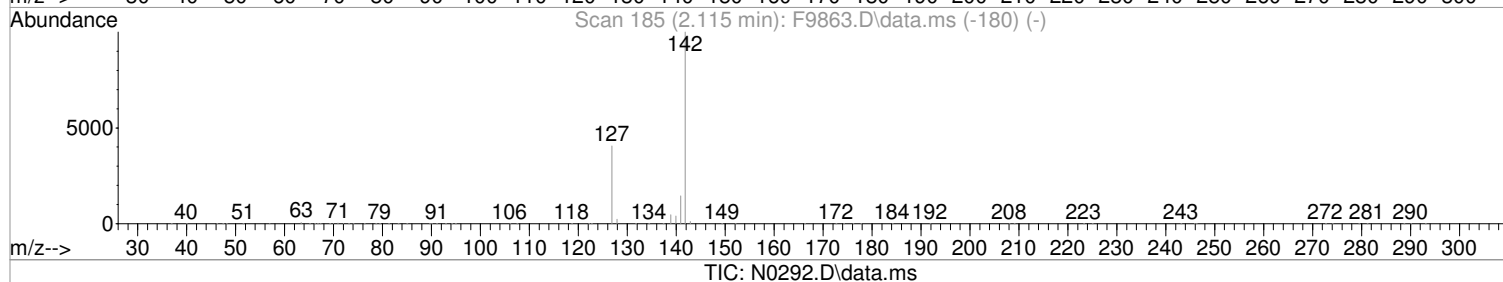
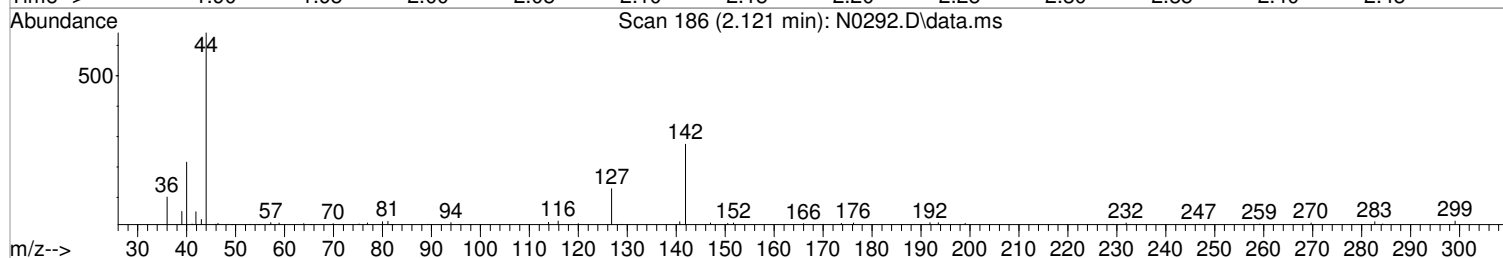
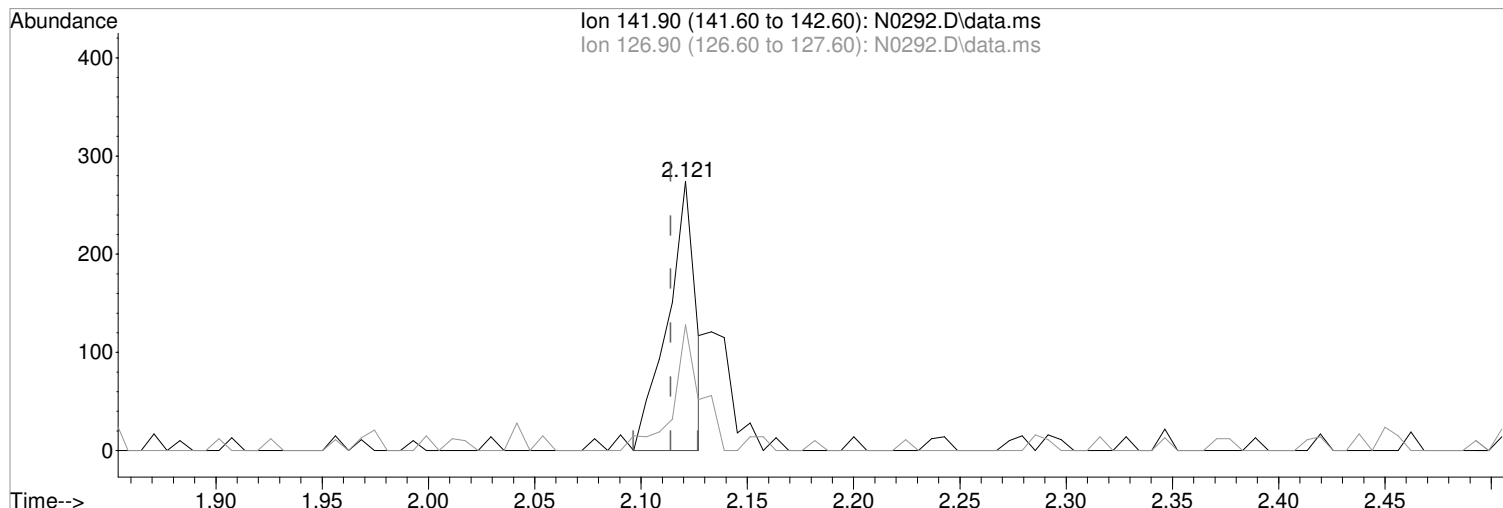
Quantitation Report (Qedit)

1st *FJ* 09/30/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
Data File : N0292.D
Acq On : 26 Sep 2019 4:18 pm
Operator : F.NAEGLER
Sample : R1909228-003|10.0
Misc : VERINA 7979 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 17:16:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



(17) Iodomethane

Manual Integration:

2.121min (+0.007) 1.07 ug/L

Before

response 251

Ion Exp% Act%

09/30/19

141.90 100 100

126.90 40.60 46.72

0.00 0.00 0.00

0.00 0.00 0.00

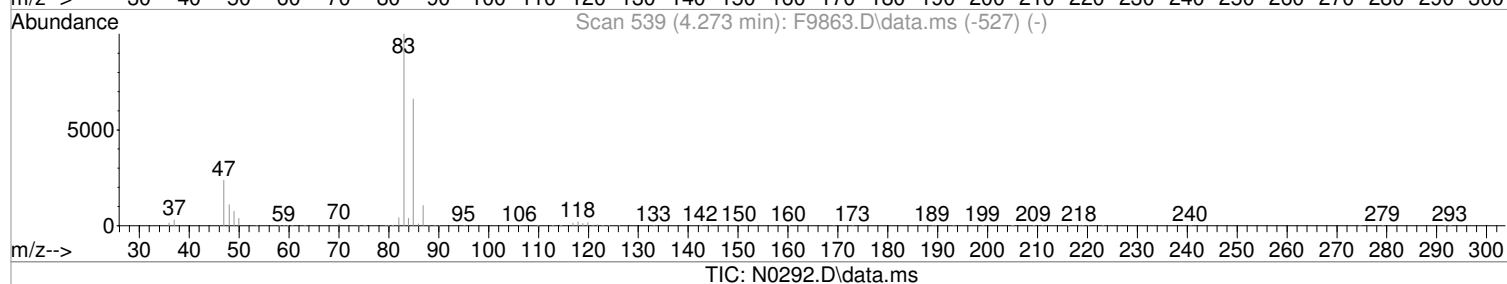
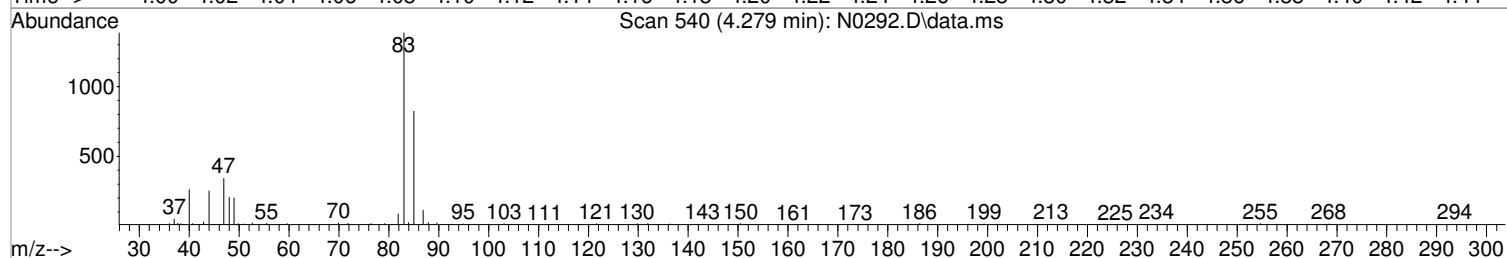
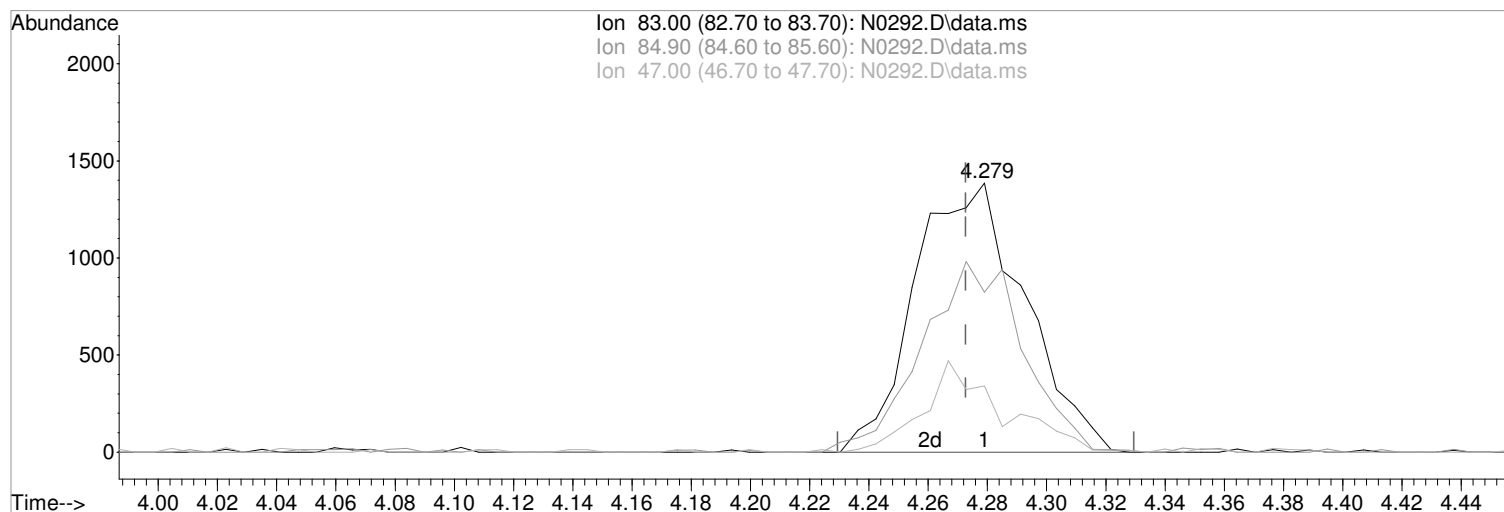
Quantitation Report (Qedit)

1st *FJ* 09/30/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
Data File : N0292.D
Acq On : 26 Sep 2019 4:18 pm
Operator : F.NAEGLER
Sample : R1909228-003|10.0
Misc : VERINA 7979 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 17:16:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



(39) Chloroform (P)

Manual Integration:

4.279min (+0.006) 0.65 ug/L m

After

response 3568

Poor integration.

Ion	Exp%	Act%
83.00	100	100
84.90	66.10	59.42
47.00	23.70	24.62
0.00	0.00	0.00

09/30/19

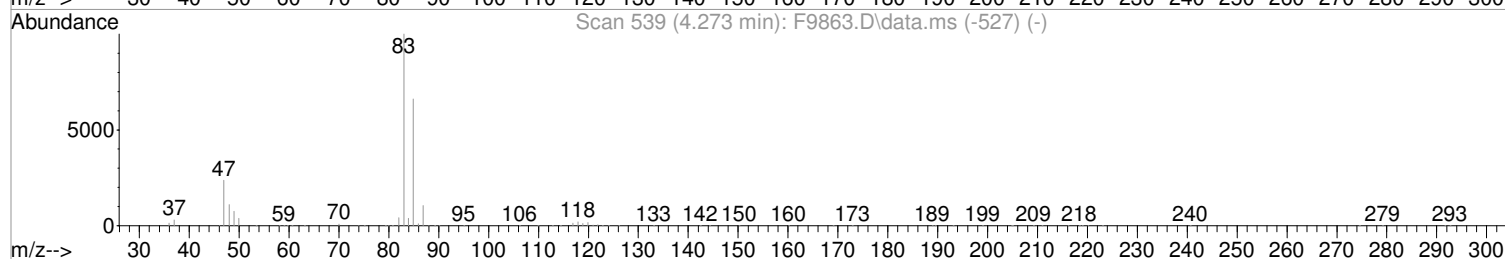
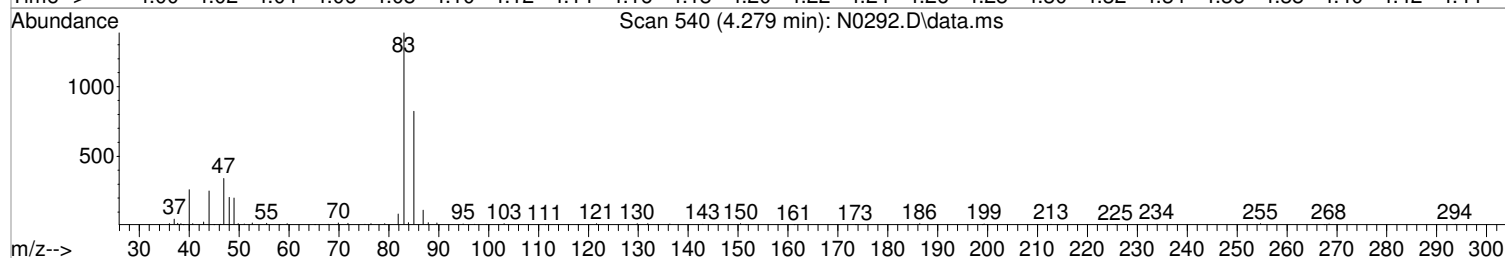
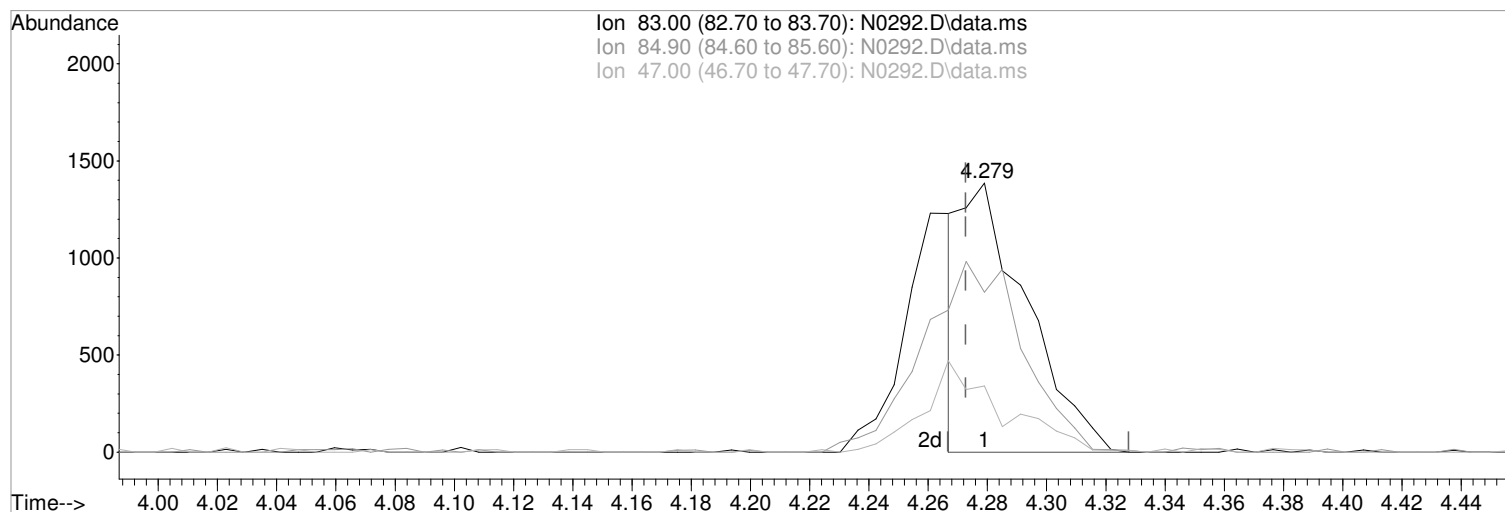
Quantitation Report (Qedit)

1st *FJ* 09/30/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
Data File : N0292.D
Acq On : 26 Sep 2019 4:18 pm
Operator : F.NAEGLER
Sample : R1909228-003|10.0
Misc : VERINA 7979 T4
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 17:16:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



TIC: N0292.D\data.ms

(39) Chloroform (P)

Manual Integration:

4.279min (+0.006) 0.39 ug/L

Before

response 2127

Ion	Exp%	Act%
83.00	100	100
84.90	66.10	59.42
47.00	23.70	24.62
0.00	0.00	0.00

09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0292.D
 Acq On : 26 Sep 2019 4:18 pm
 Operator : F.NAEGLER
 Sample : R1909228-003|10.0
 Misc : VERINA 7979 T4
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 30 14:47:15 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

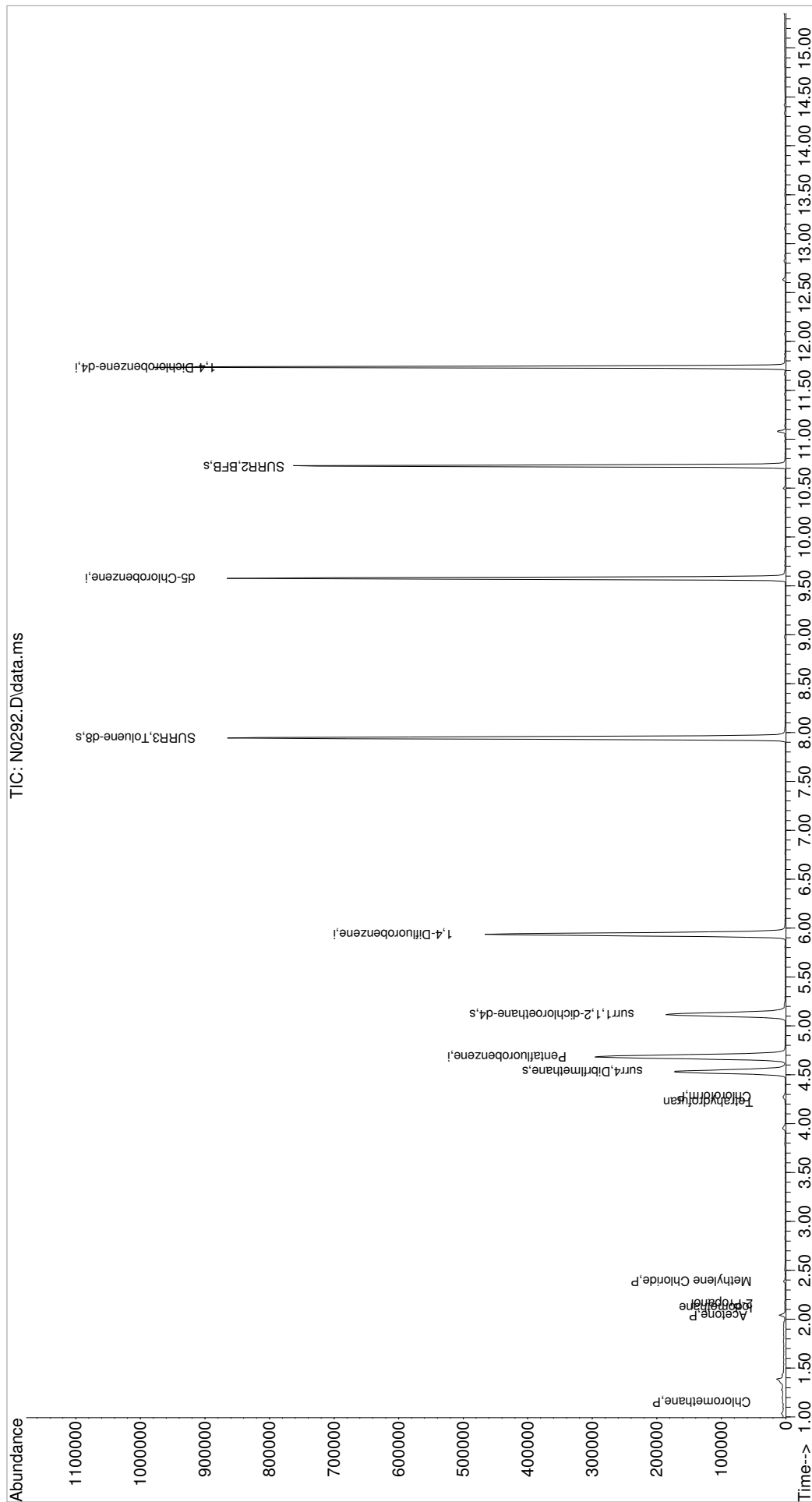
DIL OK due to dark matrix

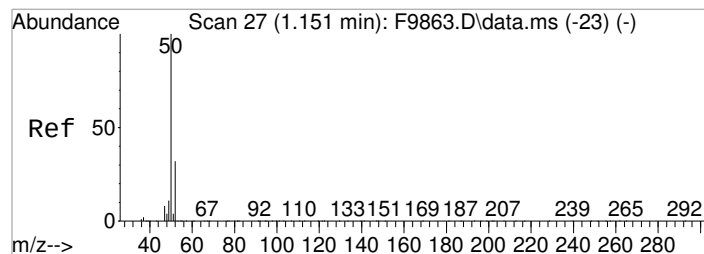
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	294902	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	445893	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	382531	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	189776	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	139284	48.84	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.68%	
47) surr1,1,2-dichloroetha...	5.114	65	180986	54.30	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.60%	
64) SURR3,Toluene-d8	7.943	98	558591	50.66	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.32%	
69) SURR2,BFB	10.723	95	197616	47.44	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.88%	
Target Compounds						
3) Chloromethane	1.152	50	812	0.21	ug/L	Qvalue 72
15) Acetone	2.042	43	7921	4.55	ug/L	95
16) 2-Propanol	2.157	45	183	0.55	ug/L	58
17) Iodomethane	2.121	142	354m	1.10	ug/L	
22) Methylene Chloride	2.389	84	932	0.29	ug/L #	75
38) Tetrahydrofuran	4.224	42	415	0.28	ug/L	100
39) Chloroform	4.279	83	3568m	0.65	ug/L	

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

Data Path : I:\ACQUDATA\MSV0A14\Data\092619\
Data File : N0292.D
Acq On : 26 Sep 2019 4:18 pm
Operator : F.NAEGLER
Sample : R1909228-003|10.0
Misc : VERINA 7979 T4
ALS Vial : 9 Sample Multiplier: 1
Inst : MSV0A14

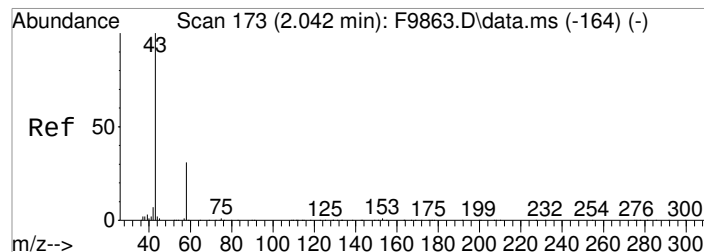
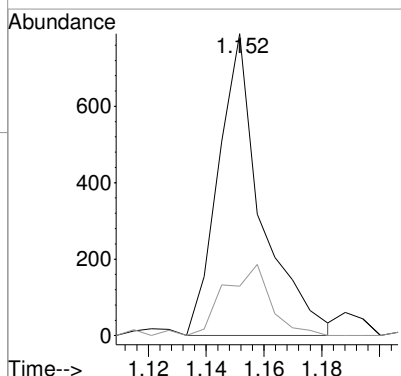
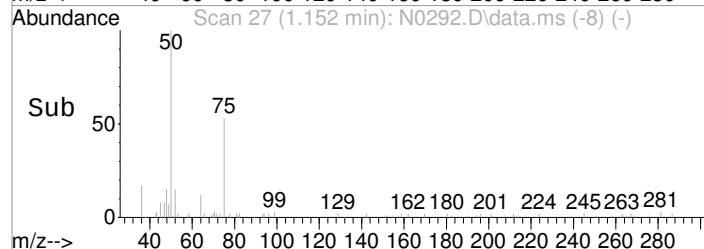
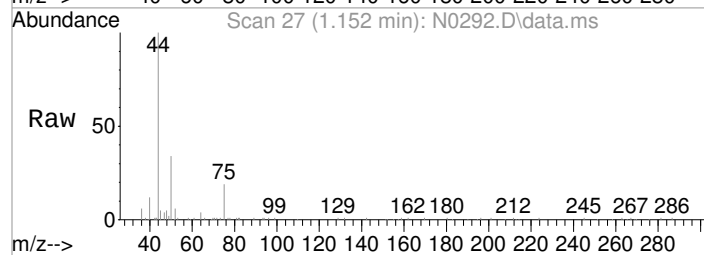
Quant Time: Sep 30 14:47:15 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\W0911119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration





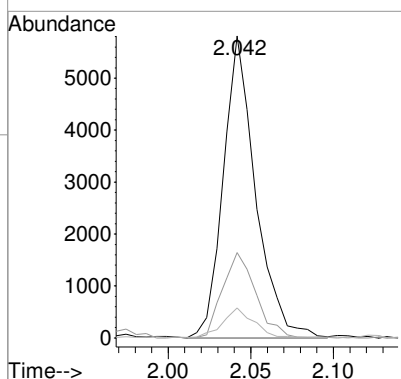
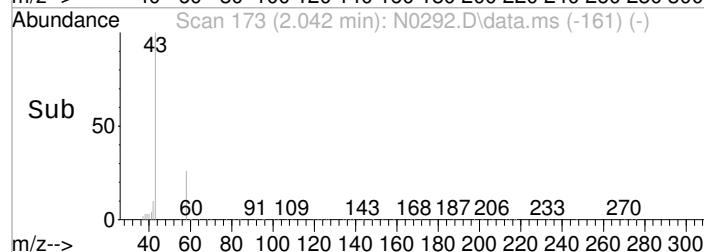
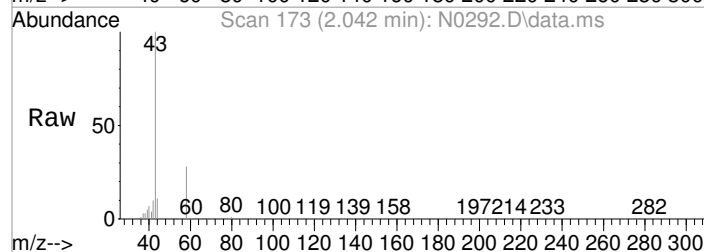
#3
 Chloromethane
 Concen: 0.21 ug/L
 RT: 1.152 min Scan# 27
 Delta R.T. 0.000 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm

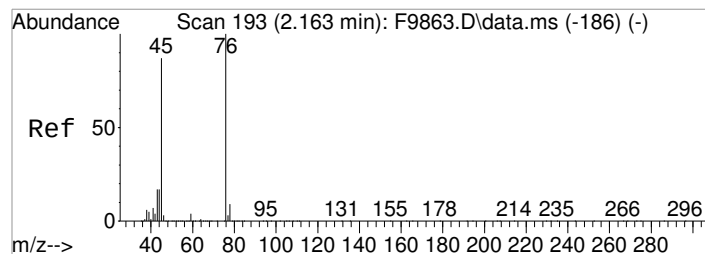
Tgt Ion: 50 Resp: 812
 Ion Ratio Lower Upper
 50 100
 52 16.3 12.2 52.2



#15
 Acetone
 Concen: 4.55 ug/L
 RT: 2.042 min Scan# 173
 Delta R.T. 0.001 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm

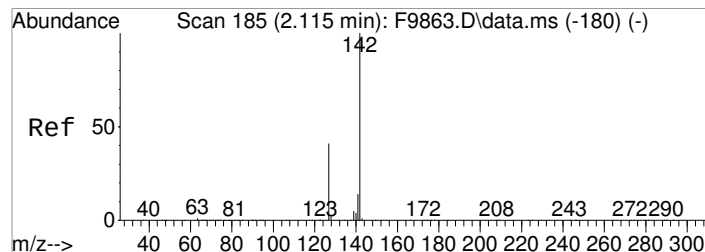
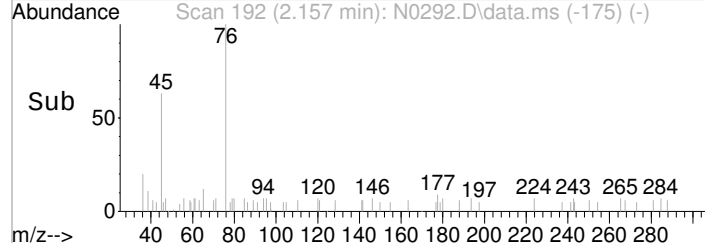
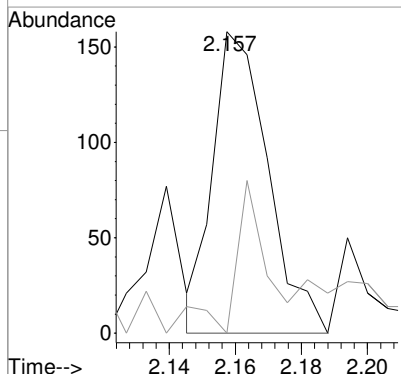
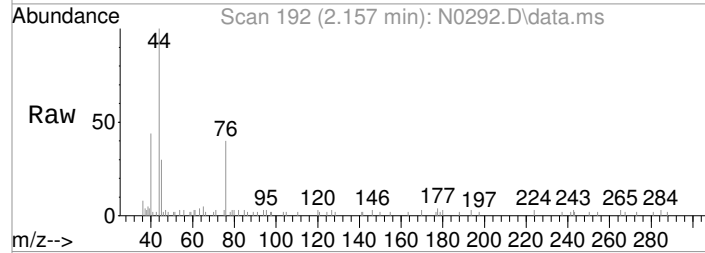
Tgt Ion: 43 Resp: 7921
 Ion Ratio Lower Upper
 43 100
 58 28.3 10.7 50.7
 42 10.0 0.0 27.6





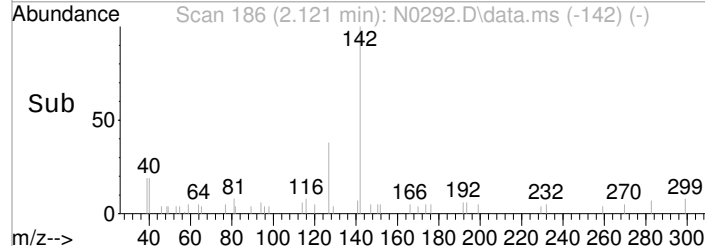
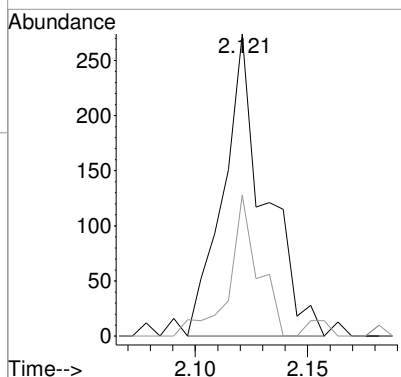
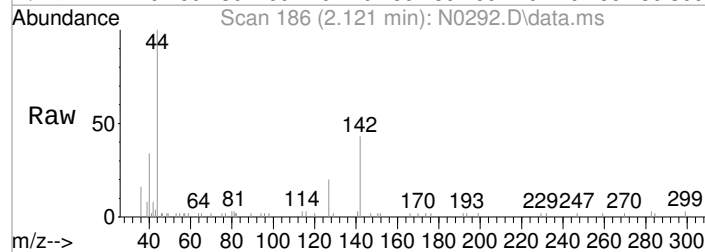
#16
 2-Propanol
 Concen: 0.55 ug/L
 RT: 2.157 min Scan# 192
 Delta R.T. -0.006 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm

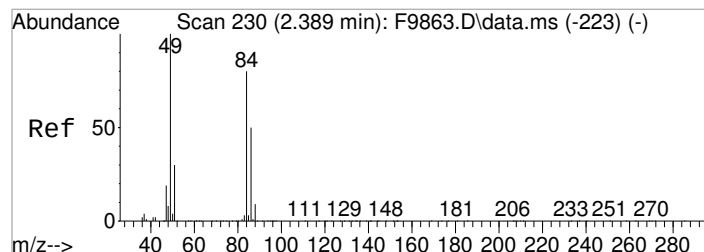
Tgt Ion: 45 Resp: 183
 Ion Ratio Lower Upper
 45 100
 43 0.0 0.0 39.2



#17
 Iodomethane
 Concen: 1.10 ug/L m
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm

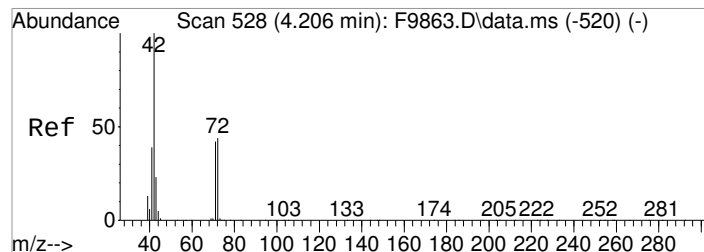
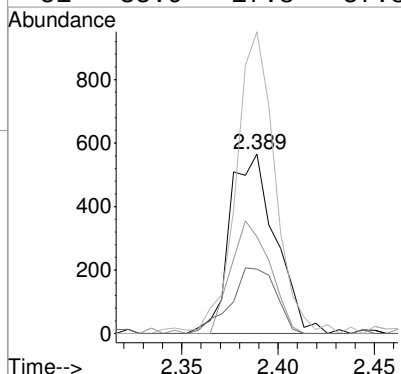
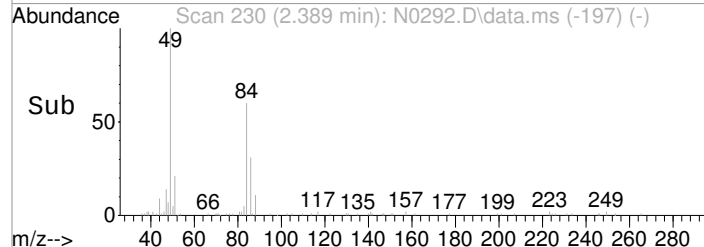
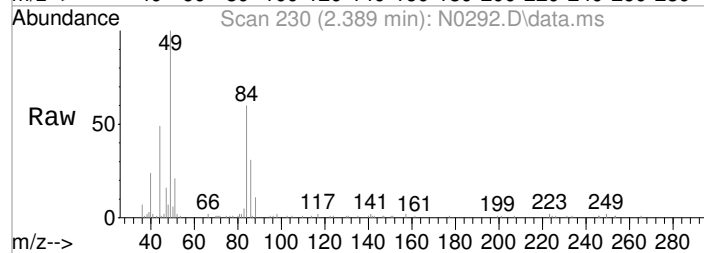
Tgt Ion: 142 Resp: 354
 Ion Ratio Lower Upper
 142 100
 127 46.7 20.6 60.6





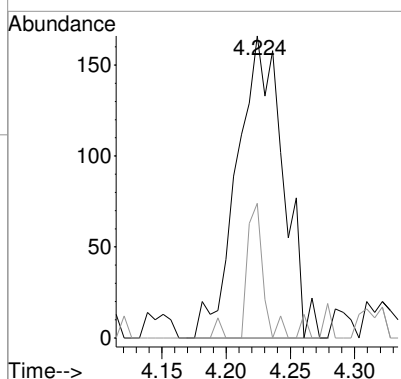
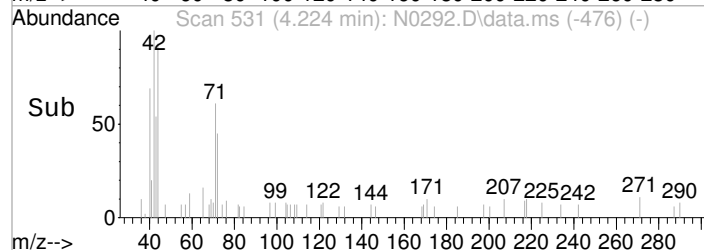
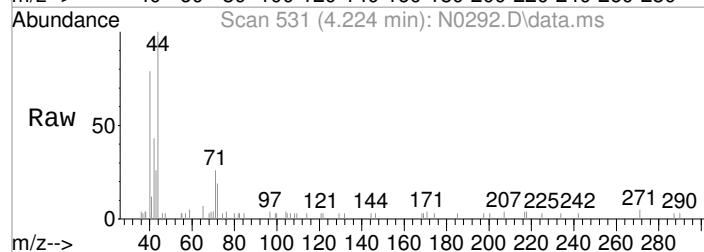
#22
 Methylene Chloride
 Concen: 0.29 ug/L
 RT: 2.389 min Scan# 230
 Delta R.T. 0.000 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm

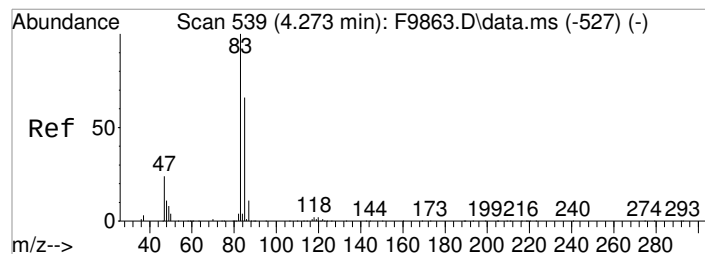
Tgt Ion:	84	Resp:	932
Ion Ratio		Lower	Upper
84	100		
86	53.9	43.0	83.0
49	168.0	105.0	145.0#
51	35.9	17.8	57.8



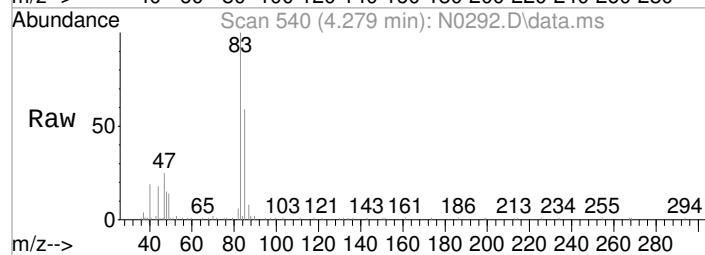
#38
 Tetrahydrofuran
 Concen: 0.28 ug/L
 RT: 4.224 min Scan# 531
 Delta R.T. 0.019 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm

Tgt Ion:	42	Resp:	415
Ion Ratio		Lower	Upper
42	100		
72	44.6	24.4	64.4

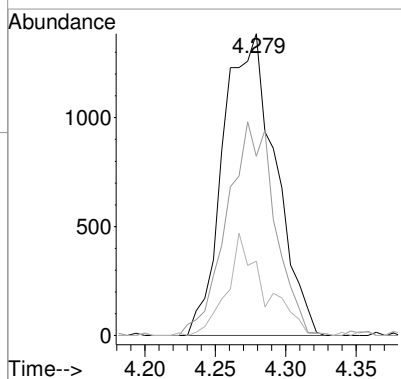
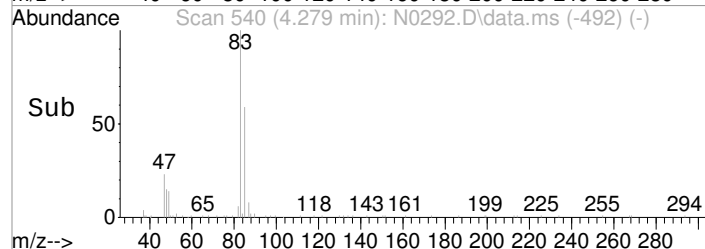




#39
 Chloroform
 Concen: 0.65 ug/L m
 RT: 4.279 min Scan# 540
 Delta R.T. 0.006 min
 Lab File: N0292.D
 Acq: 26 Sep 2019 4:18 pm



Tgt Ion: 83 Resp: 3568
 Ion Ratio Lower Upper
 83 100
 85 59.4 46.1 86.1
 47 24.6 3.7 43.7



Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0232.D
 Acq On : 25 Sep 2019 4:16 pm
 Operator : F.NAEGLER
 Sample : R1909228-009|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA14

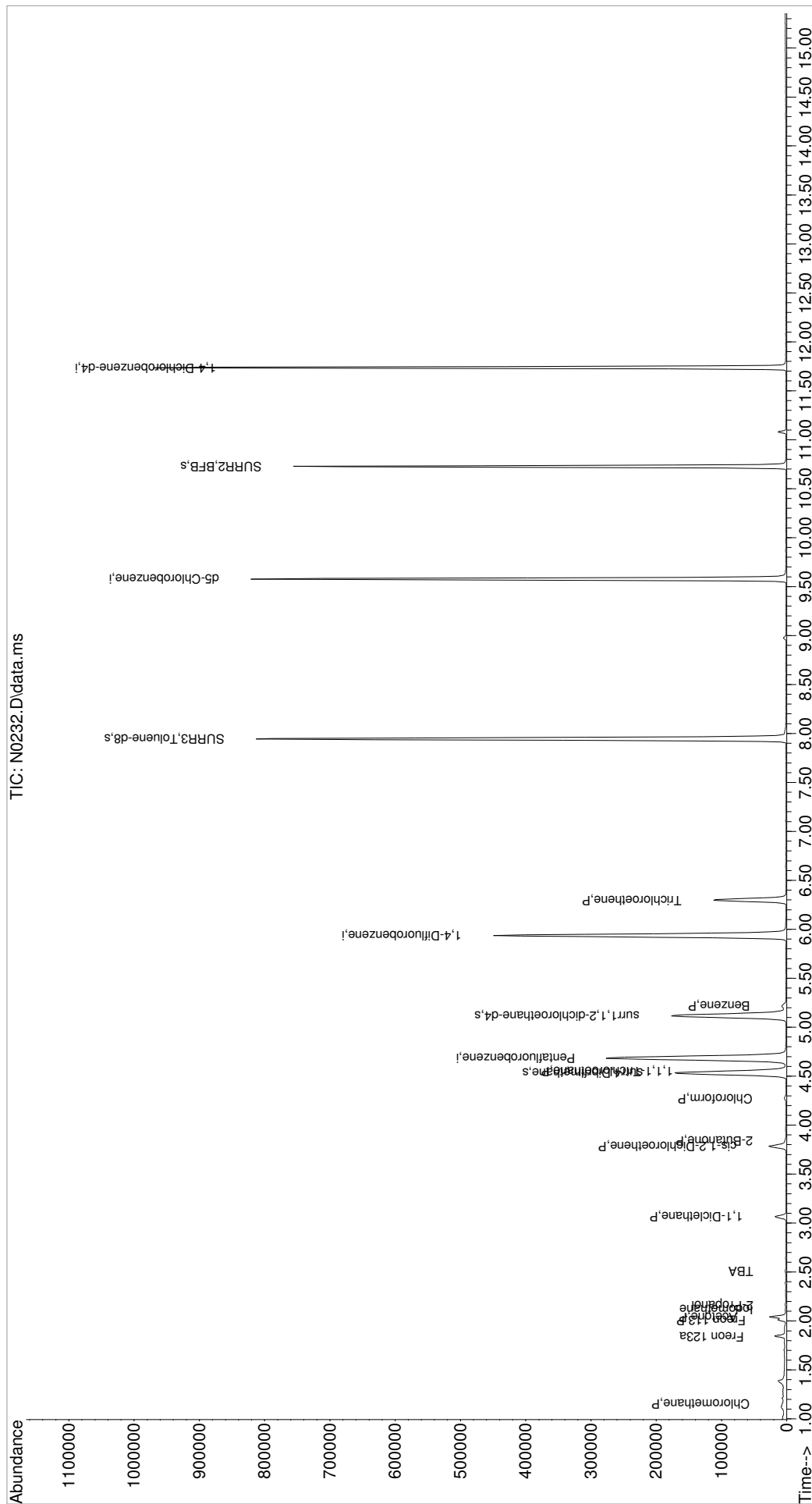
Quant Time: Sep 29 13:21:01 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

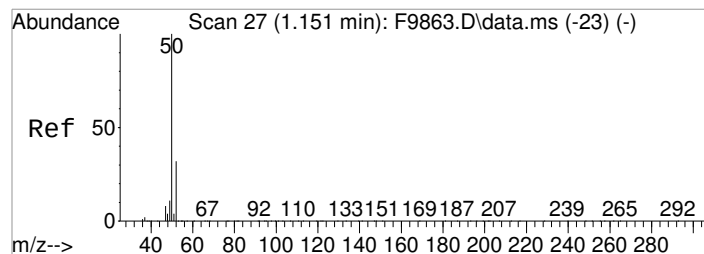
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	275444	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	419872	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	367525	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	191194	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	133859	49.85	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.70%			
47) surr1,1,2-dichloroetha...	5.114	65	174520	55.61	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 111.22%			
64) SURR3,Toluene-d8	7.943	98	526882	50.74	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.48%			
69) SURR2,BFB	10.729	95	188902	48.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.32%			
Target Compounds						
3) Chloromethane	1.151	50	810	0.22	ug/L	79
10) Freon 123a	1.840	67	5906	1.81	ug/L	82
14) Freon 113	2.011	101	4218	1.65	ug/L	87
15) Acetone	2.041	43	23386	14.39	ug/L	99
16) 2-Propanol	2.163	45	910	2.95	ug/L	76
17) Iodomethane	2.121	142	468	1.15	ug/L	97
23) TBA	2.511	59	744	1.51	ug/L	90
27) 1,1-Dicethane	3.066	63	16008	3.19	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	12723	4.12	ug/L	89
34) 2-Butanone	3.840	43	3202	1.51	ug/L	95
39) Chloroform	4.273	83	2477	0.48	ug/L	91
40) 1,1,1-Trichloroethane	4.547	97	7164	1.72	ug/L	99
48) Benzene	5.218	78	7301	0.65	ug/L	98
53) Trichloroethene	6.297	130	43493	13.13	ug/L	99

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

Data Path : I:\ACQUDATA\MSV0A14\Data\092519\
 Data File : N0232.D
 Acq On : 25 Sep 2019 4:16 pm
 Operator : F.NAEGLER
 Sample : R1909228-009|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 12 Sample Multiplier: 1
 Inst : MSV0A14

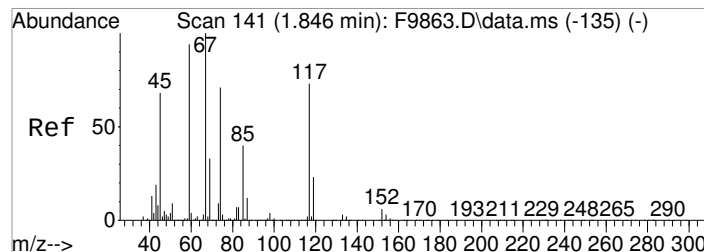
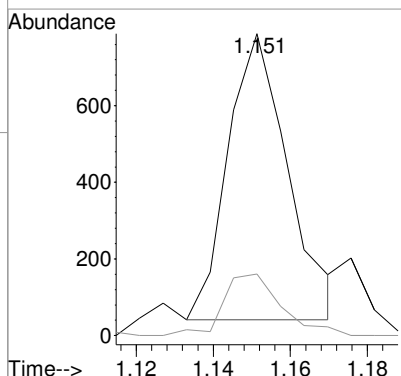
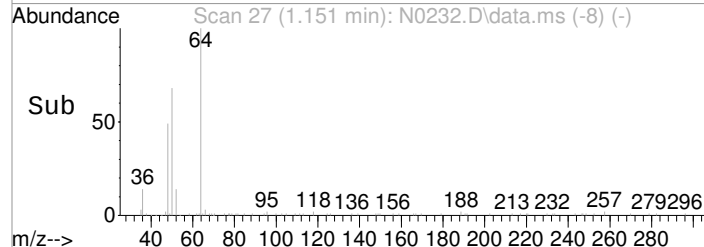
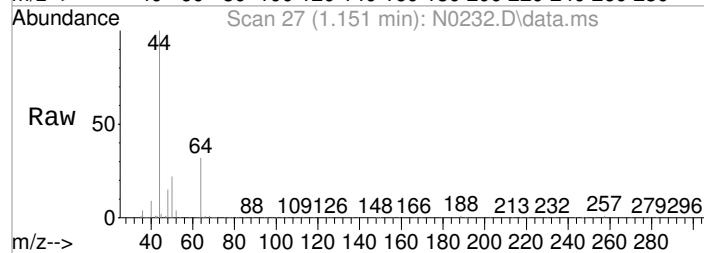
Quant Time: Sep 29 13:21:01 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\w0911119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration





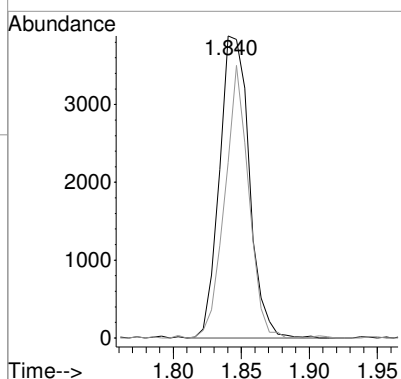
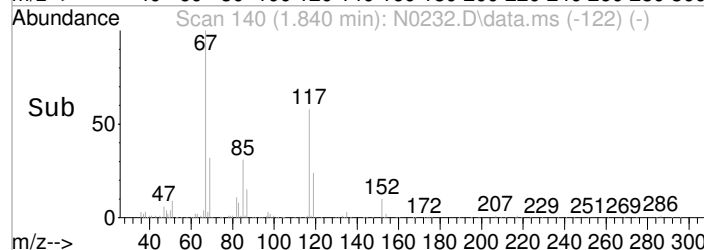
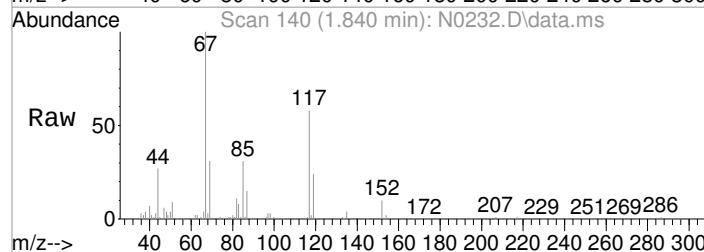
#3
 Chloromethane
 Concen: 0.22 ug/L
 RT: 1.151 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

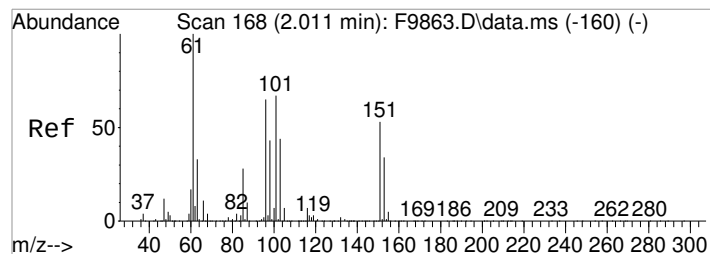
Tgt Ion: 50 Resp: 810
 Ion Ratio Lower Upper
 50 100
 52 20.4 12.2 52.2



#10
 Freon 123a
 Concen: 1.81 ug/L
 RT: 1.840 min Scan# 140
 Delta R.T. -0.006 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

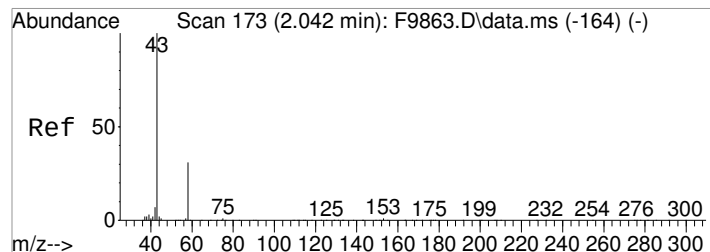
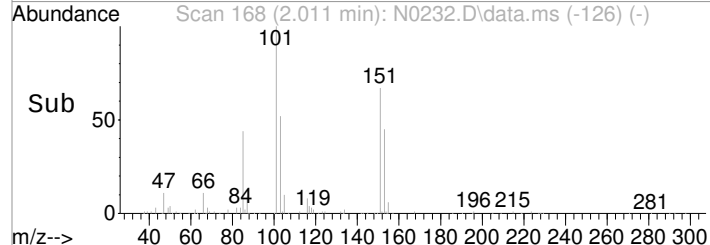
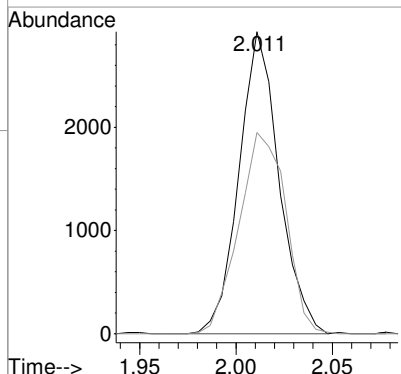
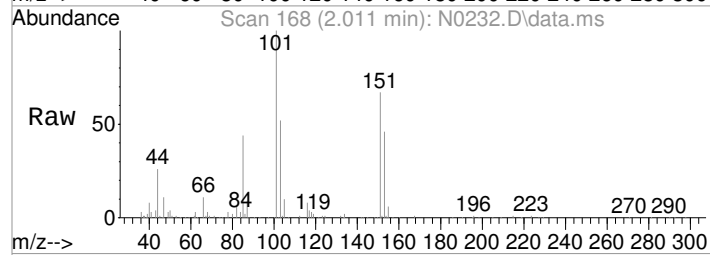
Tgt Ion: 67 Resp: 5906
 Ion Ratio Lower Upper
 67 100
 117 58.2 53.4 93.4





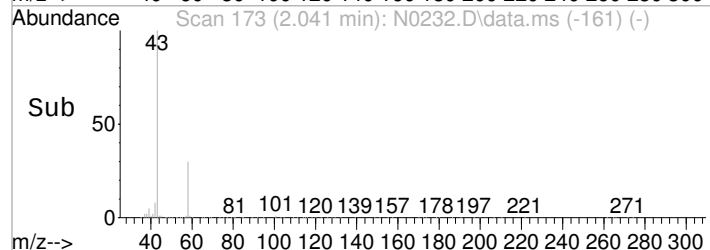
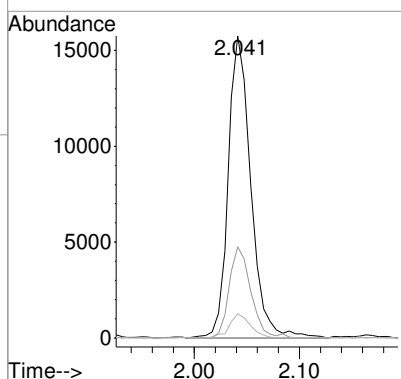
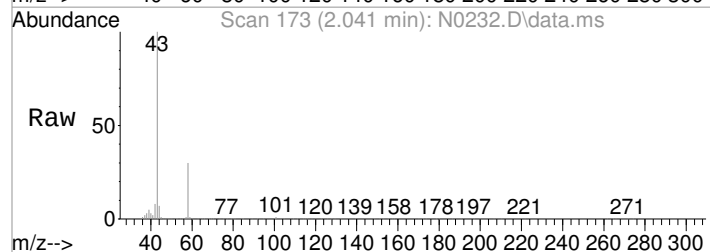
#14
 Freon 113
 Concen: 1.65 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

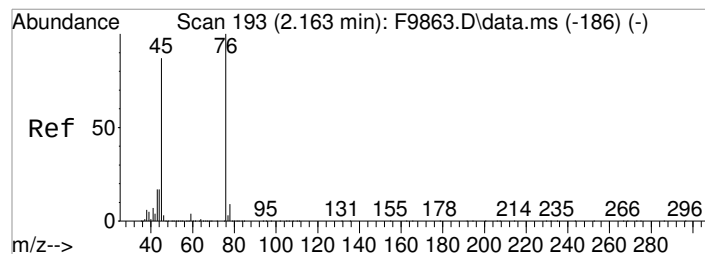
Tgt Ion: 101 Resp: 4218
 Ion Ratio Lower Upper
 101 100
 151 66.6 58.4 98.4



#15
 Acetone
 Concen: 14.39 ug/L
 RT: 2.041 min Scan# 173
 Delta R.T. 0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

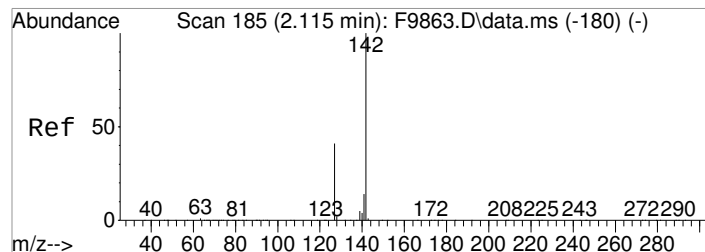
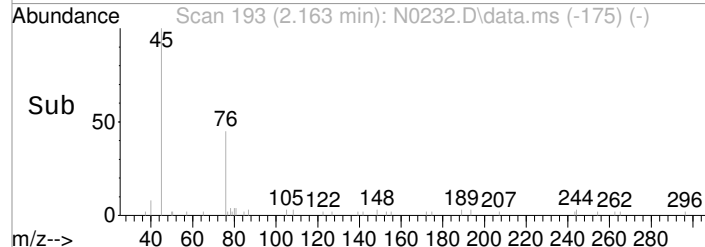
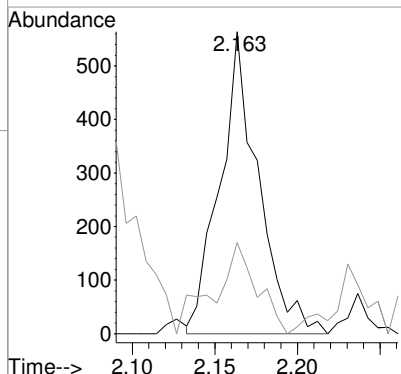
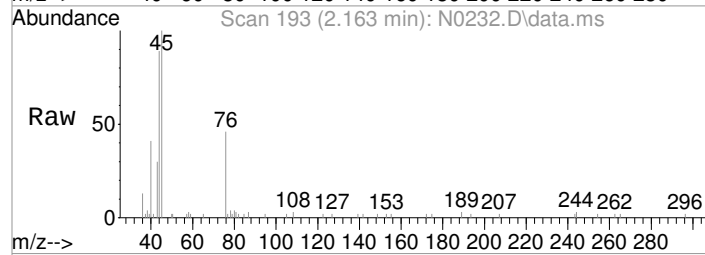
Tgt Ion: 43 Resp: 23386
 Ion Ratio Lower Upper
 43 100
 58 30.1 10.7 50.7
 42 8.0 0.0 27.6





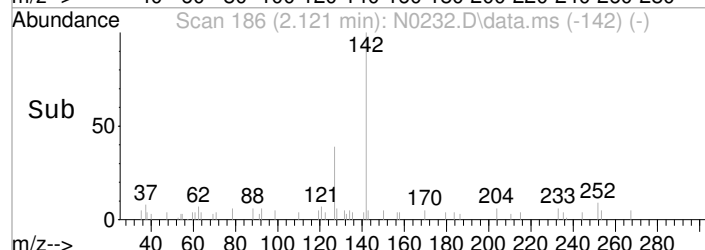
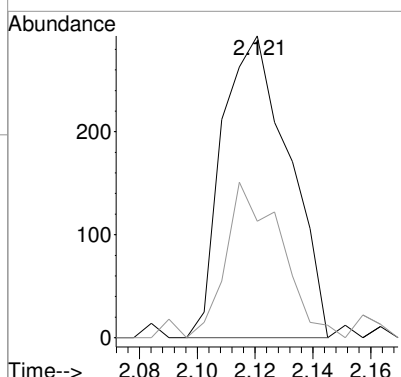
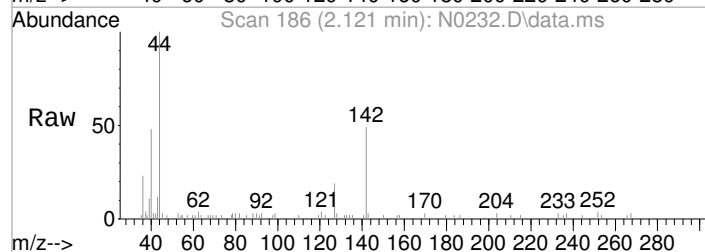
#16
 2-Propanol
 Concen: 2.95 ug/L
 RT: 2.163 min Scan# 193
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

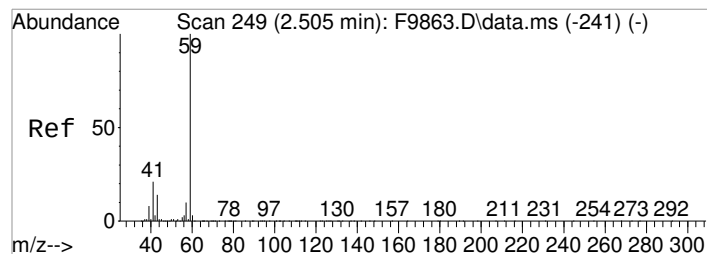
Tgt Ion: 45 Resp: 910
 Ion Ratio Lower Upper
 45 100
 43 30.1 0.0 39.2



#17
 Iodomethane
 Concen: 1.15 ug/L
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

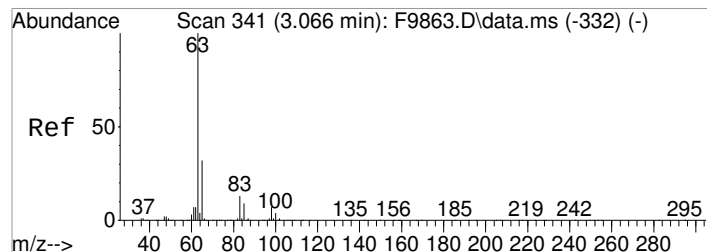
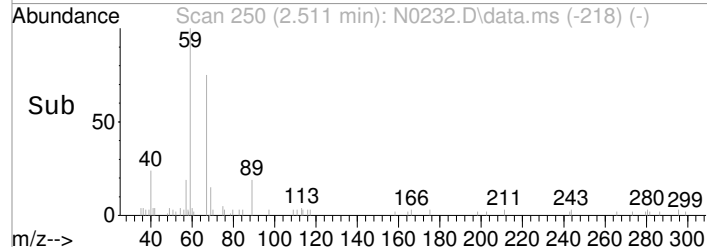
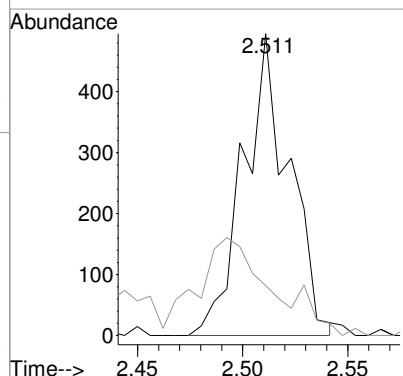
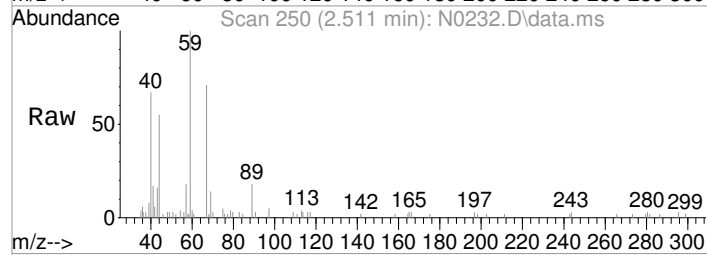
Tgt Ion: 142 Resp: 468
 Ion Ratio Lower Upper
 142 100
 127 38.6 20.6 60.6





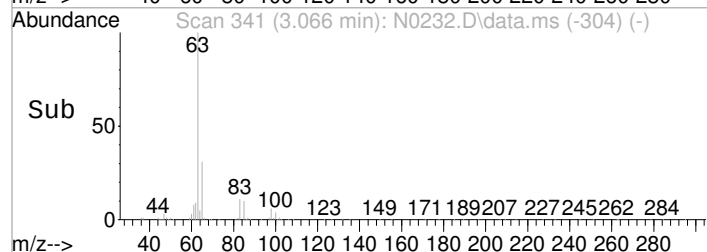
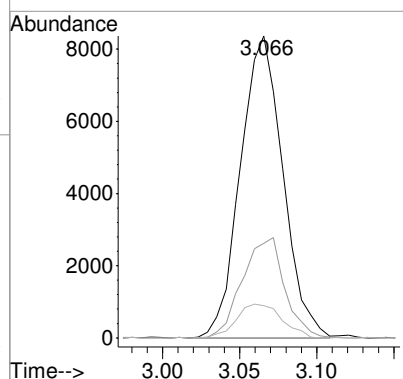
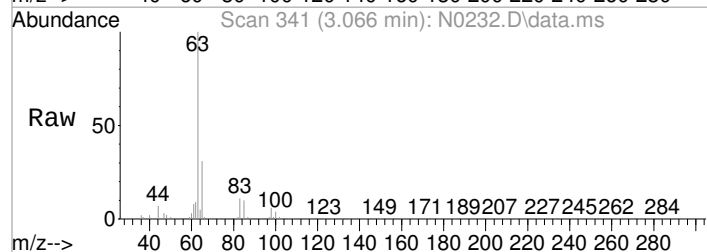
#23
 TBA
 Concen: 1.51 ug/L
 RT: 2.511 min Scan# 250
 Delta R.T. 0.006 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

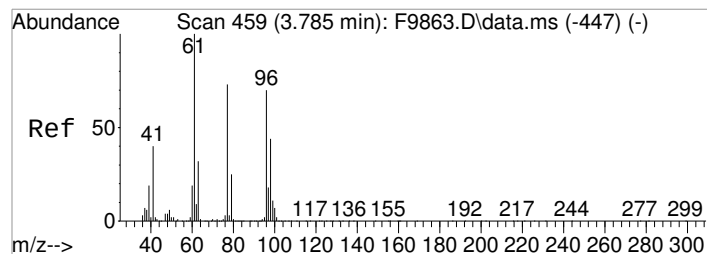
Tgt Ion: 59 Resp: 744
 Ion Ratio Lower Upper
 59 100
 41 16.6 1.3 41.3



#27
 1,1-Dicethane
 Concen: 3.19 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

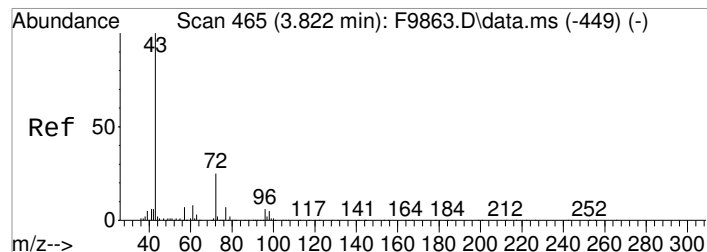
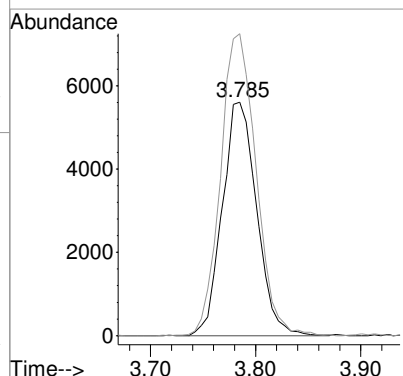
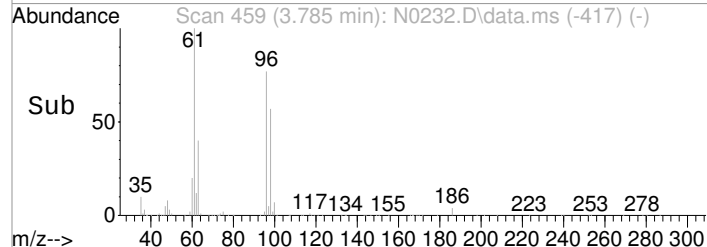
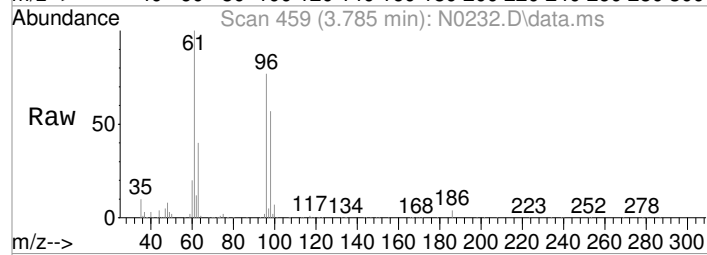
Tgt Ion: 63 Resp: 16008
 Ion Ratio Lower Upper
 63 100
 65 31.4 12.1 52.1
 83 10.6 0.0 32.7





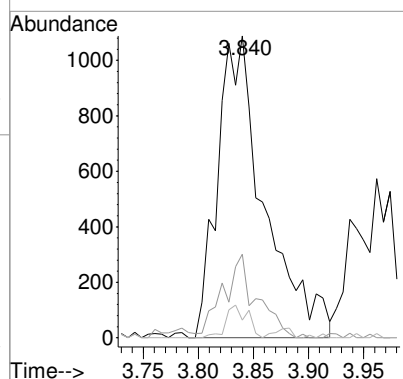
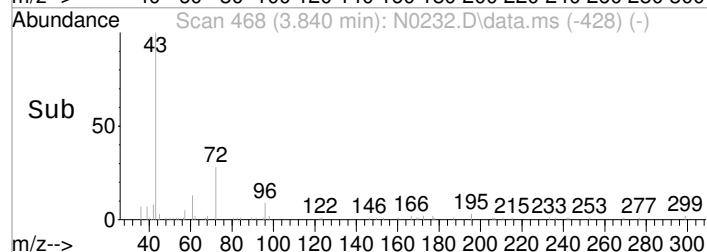
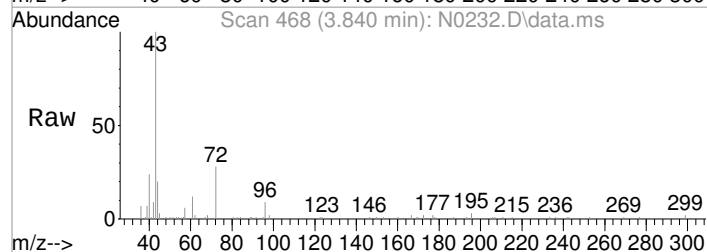
#33
 cis-1,2-Dichloroethene
 Concen: 4.12 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

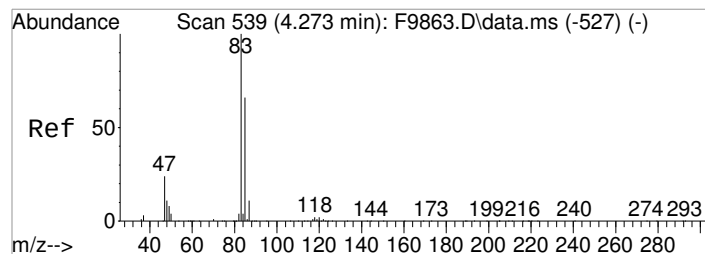
Tgt Ion: 96 Resp: 12723
 Ion Ratio Lower Upper
 96 100
 61 129.3 122.8 162.8



#34
 2-Butanone
 Concen: 1.51 ug/L
 RT: 3.840 min Scan# 468
 Delta R.T. 0.018 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

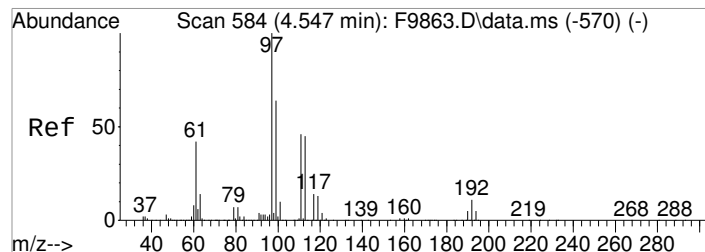
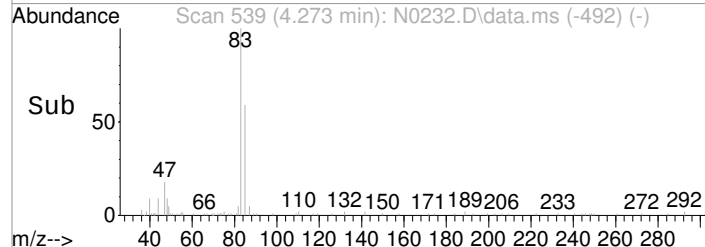
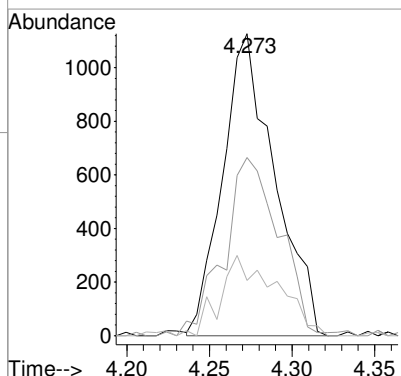
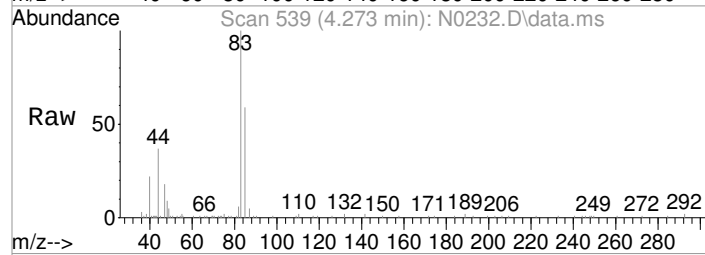
Tgt Ion: 43 Resp: 3202
 Ion Ratio Lower Upper
 43 100
 72 27.7 4.9 44.9
 57 5.9 0.0 27.6





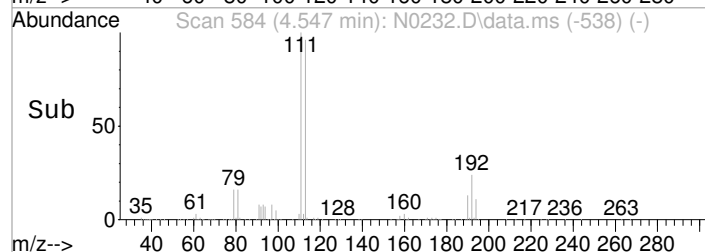
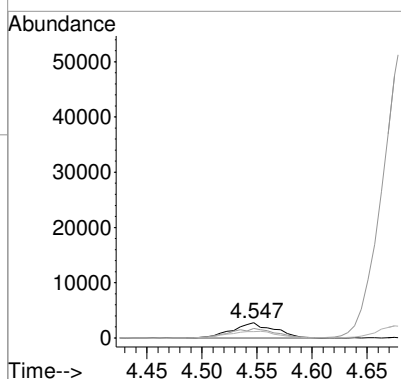
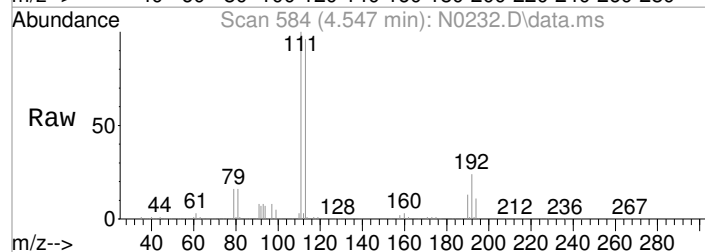
#39
 Chloroform
 Concen: 0.48 ug/L
 RT: 4.273 min Scan# 539
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

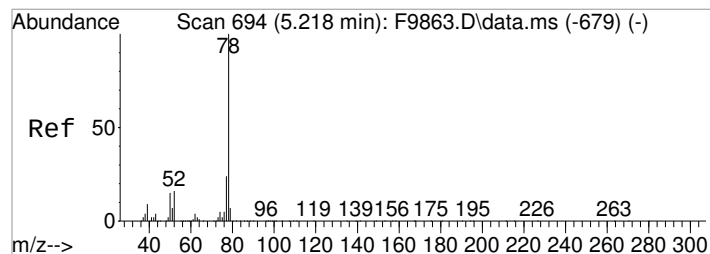
Tgt Ion:	83	Resp:	2477
Ion Ratio		Lower	Upper
83	100		
85	59.0	46.1	86.1
47	18.3	3.7	43.7



#40
 1,1,1-Trichloroethane
 Concen: 1.72 ug/L
 RT: 4.547 min Scan# 584
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

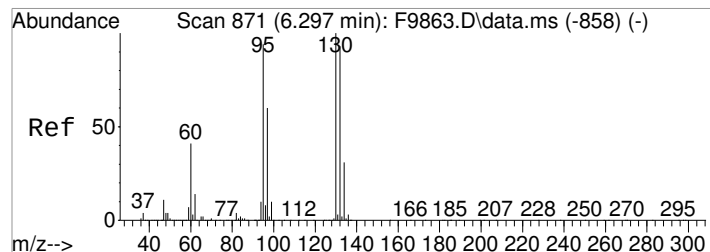
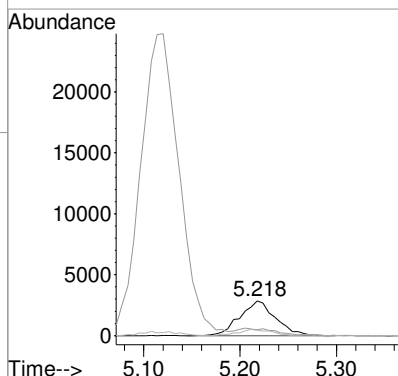
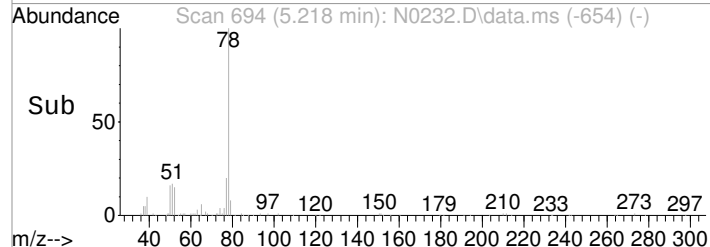
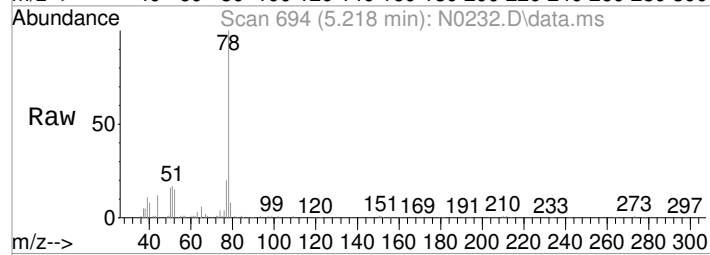
Tgt Ion:	97	Resp:	7164
Ion Ratio		Lower	Upper
97	100		
99	63.6	44.4	84.4
61	42.3	22.3	62.3





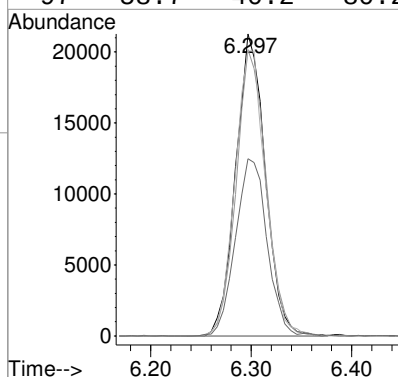
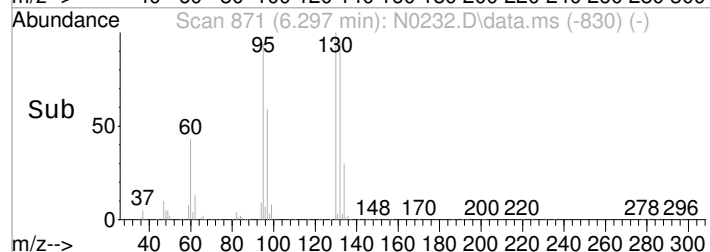
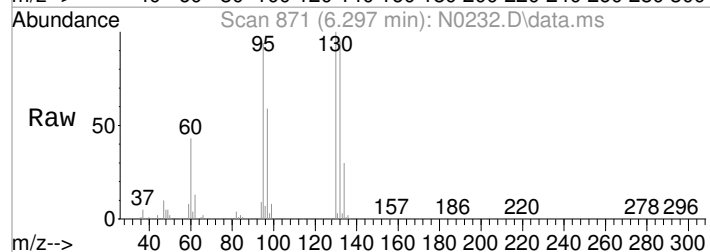
#48
 Benzene
 Concen: 0.65 ug/L
 RT: 5.218 min Scan# 694
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

Tgt Ion:	78	Resp:	7301
Ion Ratio		Lower	Upper
78	100		
51	17.1	0.0	36.4
52	15.2	0.0	36.4



#53
 Trichloroethene
 Concen: 13.13 ug/L
 RT: 6.297 min Scan# 871
 Delta R.T. -0.000 min
 Lab File: N0232.D
 Acq: 25 Sep 2019 4:16 pm

Tgt Ion:	130	Resp:	43493
Ion Ratio		Lower	Upper
130	100		
132	94.8	73.2	113.2
95	94.4	74.3	114.3
97	58.7	40.2	80.2



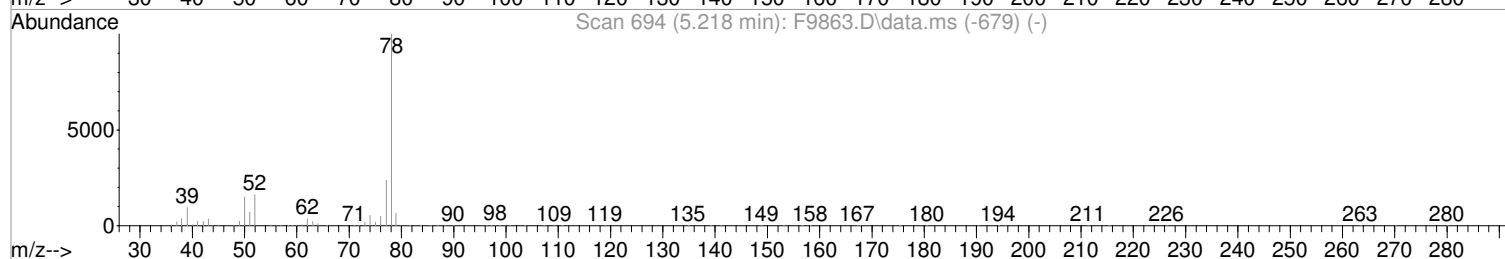
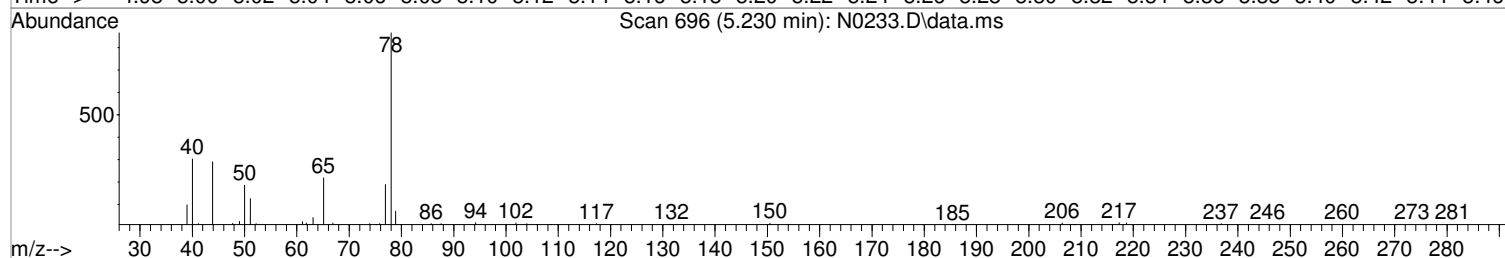
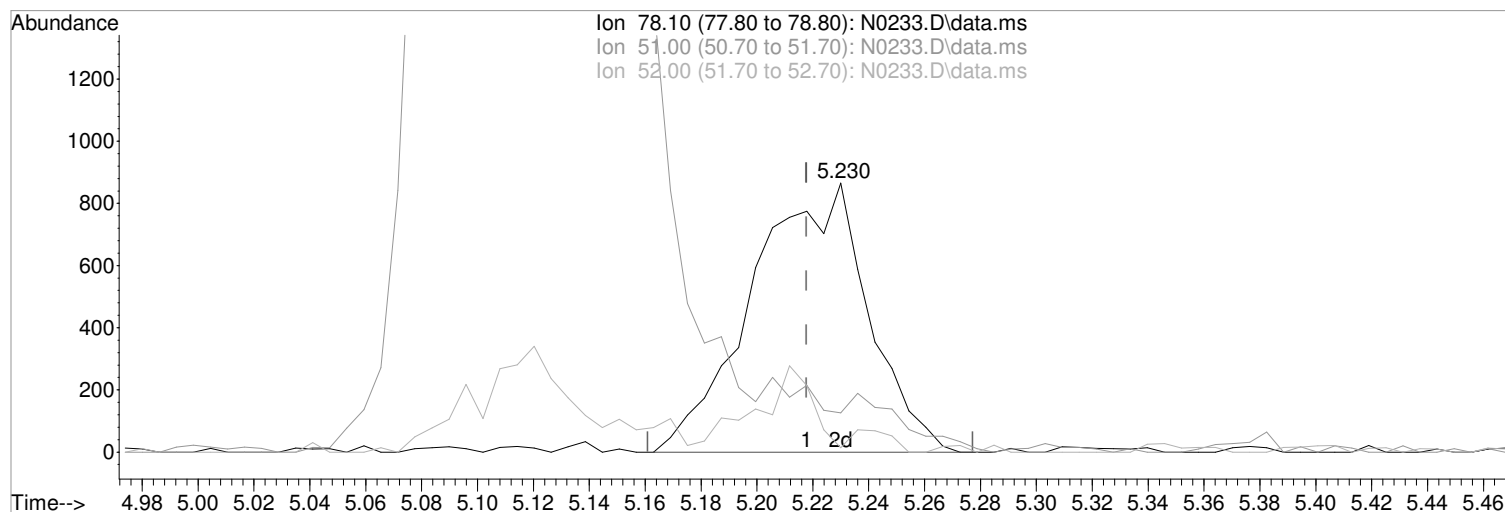
Quantitation Report (Qedit)

1st *FJ* 09/29/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0233.D
Acq On : 25 Sep 2019 4:38 pm
Operator : F.NAEGLER
Sample : R1909228-010|1.0
Misc : VERINA 7979 T4
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 17:18:35 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



TIC: N0233.D\data.ms

(48) Benzene (P)

5.230min (+0.012) 0.22 ug/L m

response 2490

Ion	Exp%	Act%
78.10	100	100
51.00	16.40	14.57
52.00	16.40	1.62
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/29/19

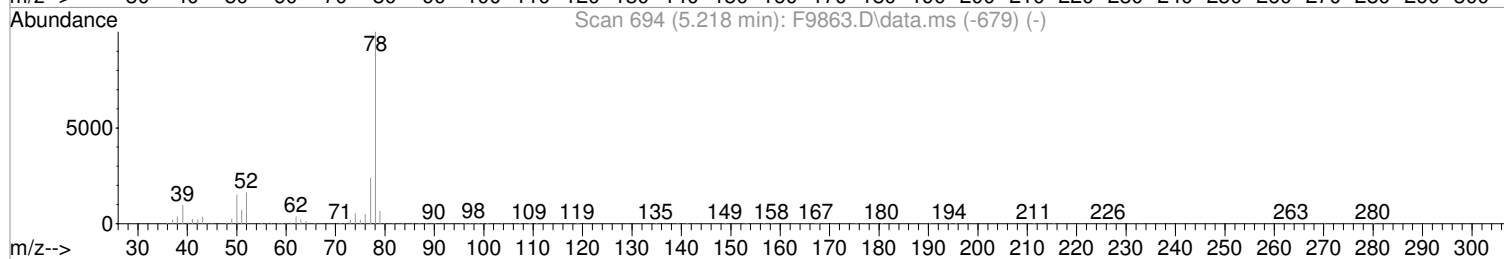
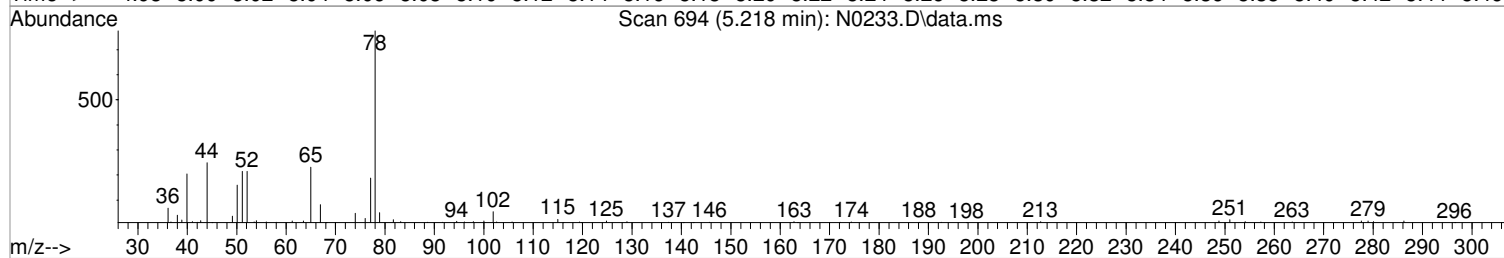
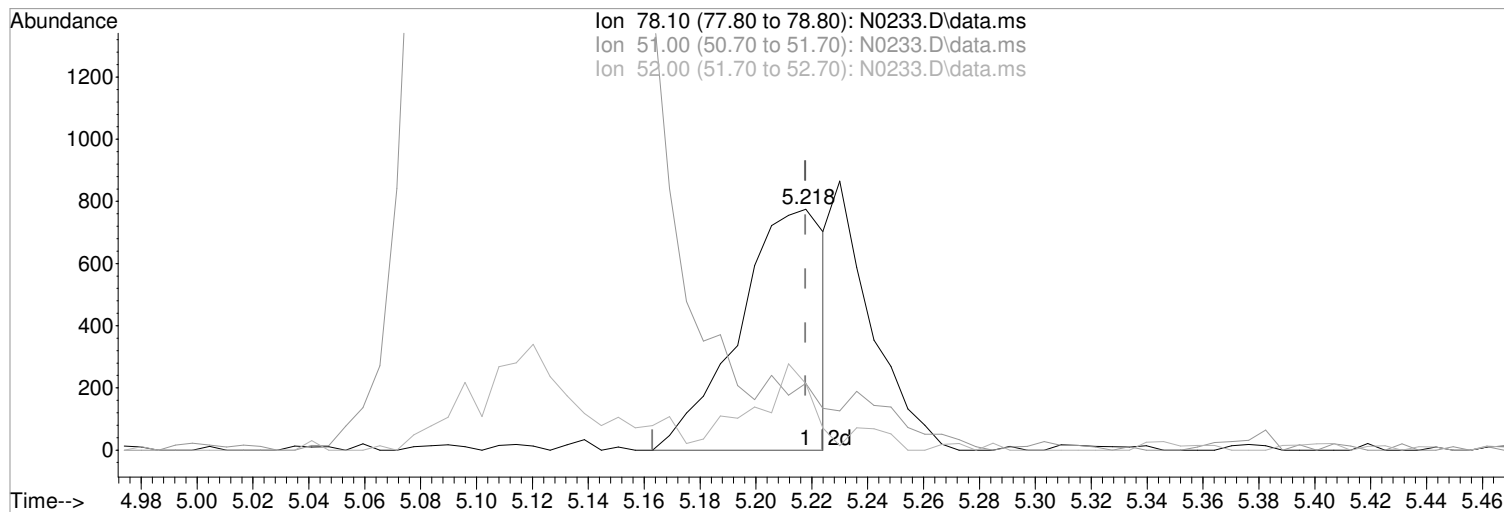
Quantitation Report (Qedit)

1st *FJ* 09/29/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0233.D
Acq On : 25 Sep 2019 4:38 pm
Operator : F.NAEGLER
Sample : R1909228-010|1.0
Misc : VERINA 7979 T4
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 17:18:35 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



TIC: N0233.D\data.ms

(48) Benzene (P)

Manual Integration:

5.218min (+0.000) 0.15 ug/L

Before

response 1647

Ion	Exp%	Act%
78.10	100	100
51.00	16.40	27.74
52.00	16.40	27.61
0.00	0.00	0.00

09/29/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0233.D
 Acq On : 25 Sep 2019 4:38 pm
 Operator : F.NAEGLER
 Sample : R1909228-010|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 29 13:23:38 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	273891	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	417248	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	365332	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	187324	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	128909	48.31	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	96.62%		
47) surr1,1,2-dichloroetha...	5.120	65	168235	53.94	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	107.88%		
64) SURR3,Toluene-d8	7.943	98	511411	49.56	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	99.12%		
69) SURR2,BFB	10.729	95	187750	48.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	96.32%		
Target Compounds						
10) Freon 123a	1.847	67	18699	5.75	ug/L	93
14) Freon 113	2.011	101	9350	3.68	ug/L	95
15) Acetone	2.042	43	17885	11.07	ug/L	98
16) 2-Propanol	2.164	45	1206	3.93	ug/L	88
17) Iodomethane	2.121	142	488	1.15	ug/L	76
18) Carbon Disulfide	2.170	76	6149	0.87	ug/L	98
27) 1,1-Dicethane	3.066	63	115689	23.16	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	99518	32.43	ug/L	92
34) 2-Butanone	3.834	43	3013	1.43	ug/L	94
40) 1,1,1-Trichloroethane	4.547	97	31964	7.71	ug/L	93
48) Benzene	5.230	78	2490m	0.22	ug/L	
53) Trichloroethene	6.297	130	21699	6.59	ug/L	97
71) Tetrachloroethene	8.668	164	657	0.27	ug/L #	70

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

Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\092519\
Data File	:	N0233.D
Acq On	:	25 Sep 2019 4:38 pm
Operator	:	F.NAEGLER
Sample	:	R1909228-010 1.0
Misc	:	VERINA 7979 T4
ALS Vial	:	13 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 13 Sample Multiplier: 1

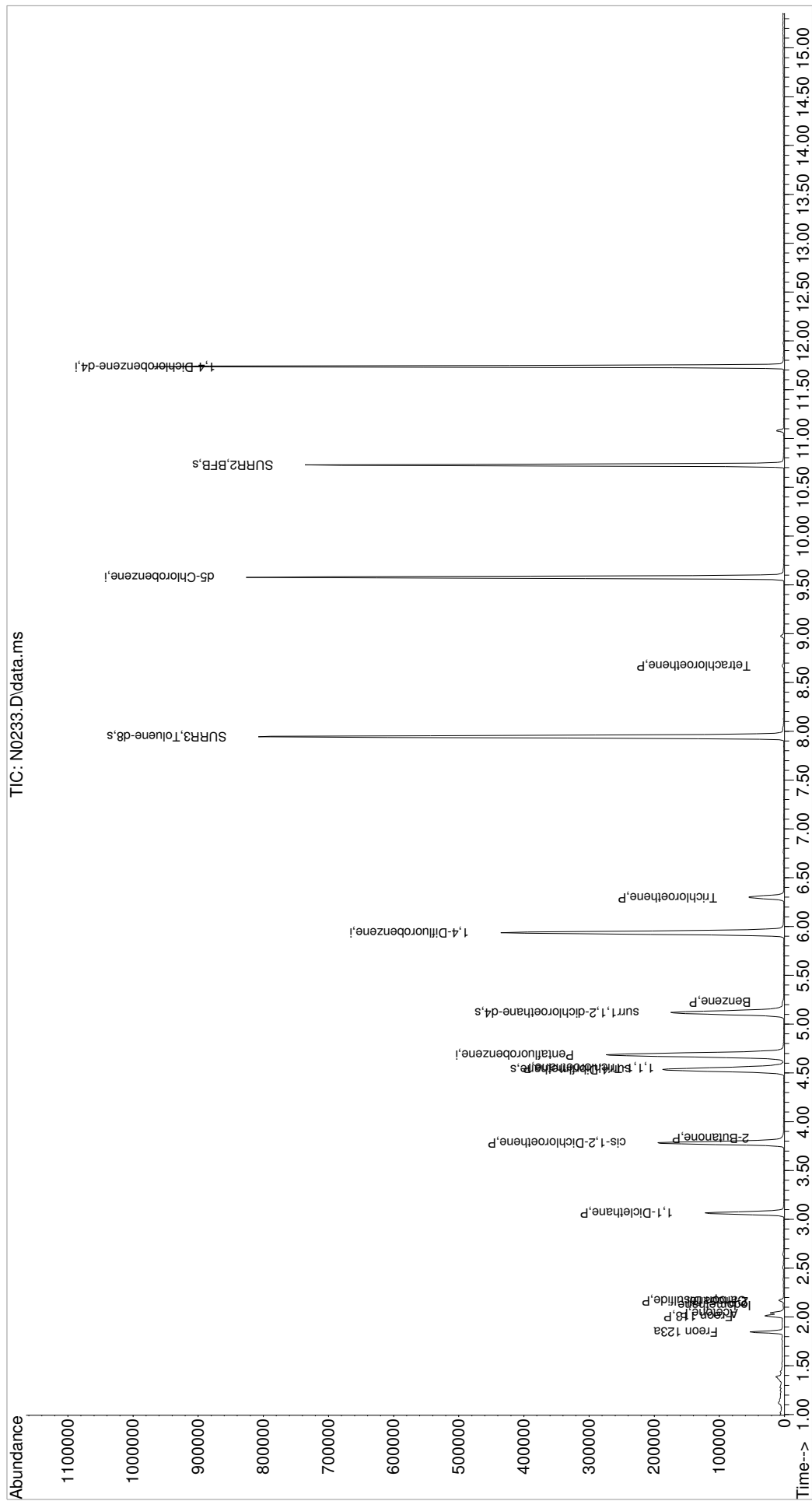
Quant Time: Sep 29 13:23:38 2019

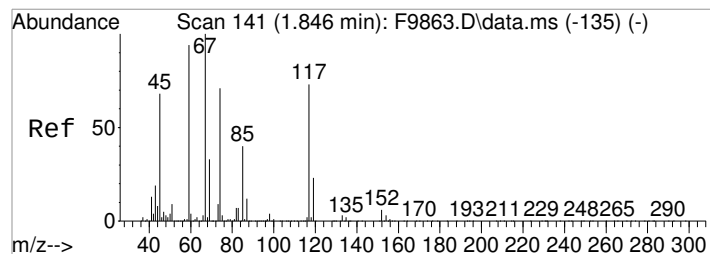
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m

Quant Title : MS#14 - 8260 WATERS 5mL Purge

QLast Update : Mon Sep 16 09:11:19 2019

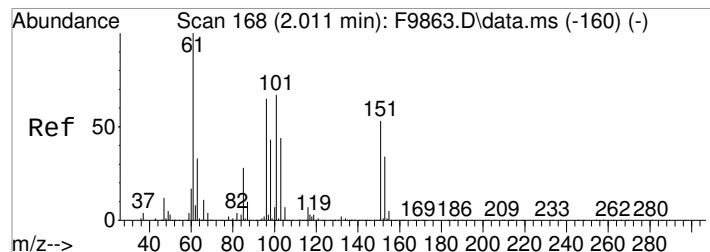
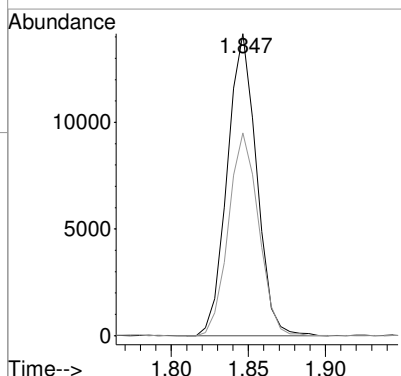
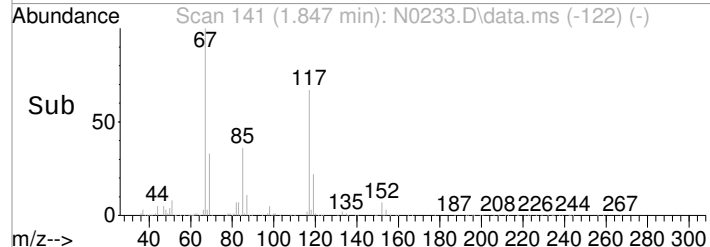
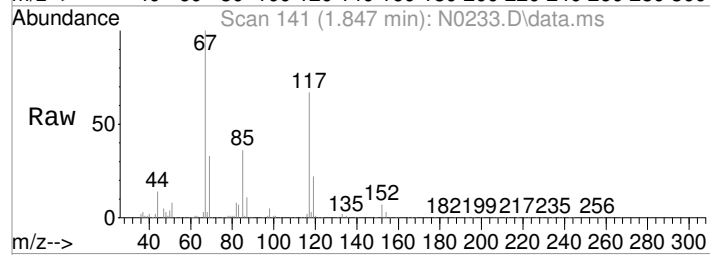
Response via : Initial Calibration





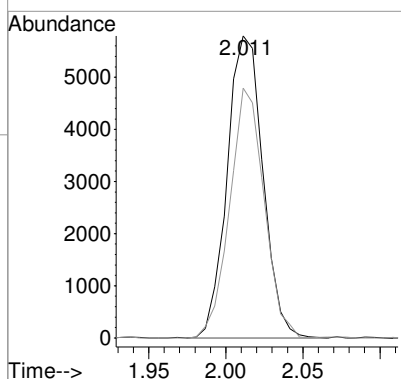
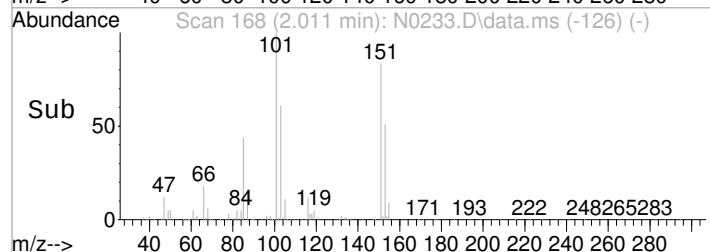
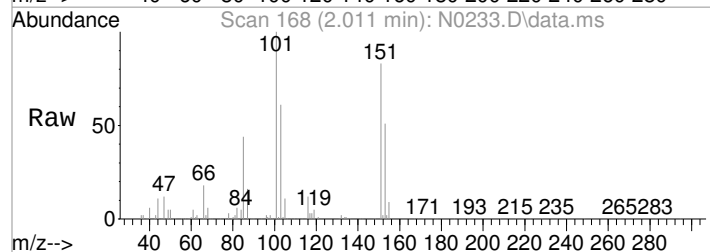
#10
 Freon 123a
 Concen: 5.75 ug/L
 RT: 1.847 min Scan# 141
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

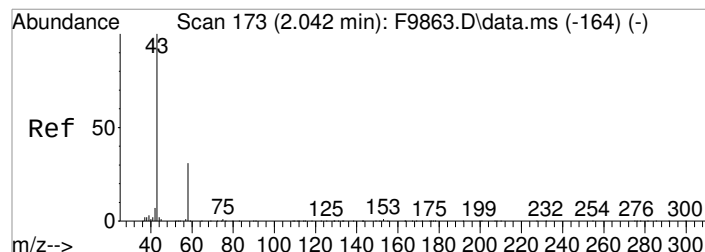
Tgt Ion: 67 Resp: 18699
 Ion Ratio Lower Upper
 67 100
 117 67.2 53.4 93.4



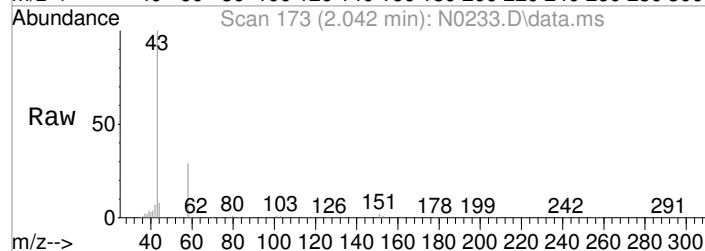
#14
 Freon 113
 Concen: 3.68 ug/L
 RT: 2.011 min Scan# 168
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

Tgt Ion: 101 Resp: 9350
 Ion Ratio Lower Upper
 101 100
 151 82.7 58.4 98.4

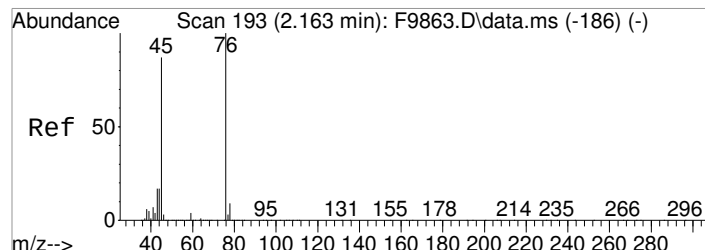
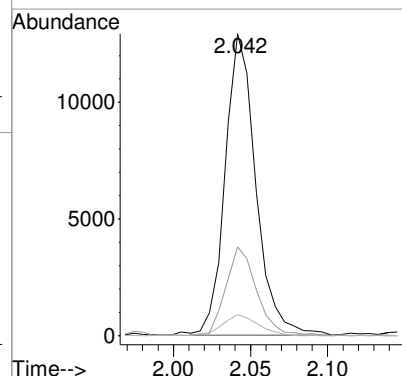
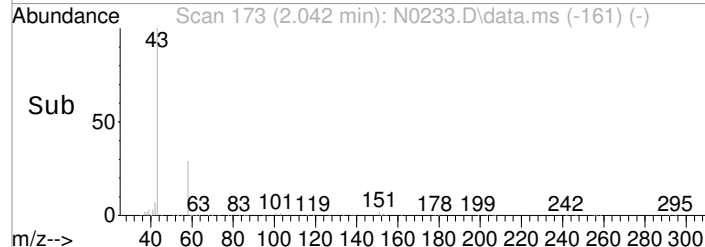




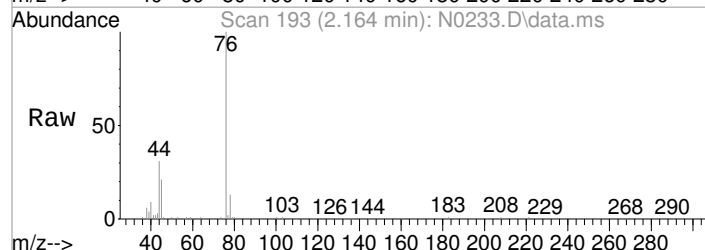
#15
 Acetone
 Concen: 11.07 ug/L
 RT: 2.042 min Scan# 173
 Delta R.T. 0.001 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm



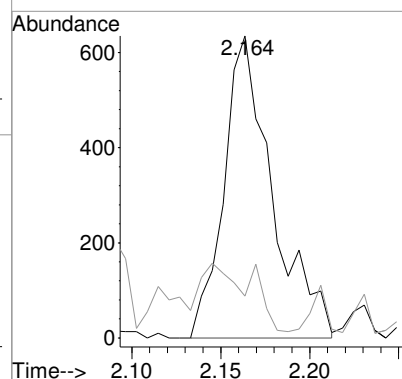
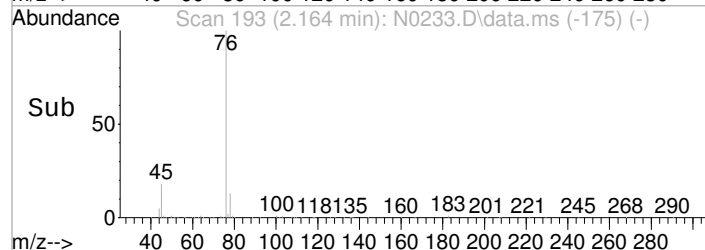
Tgt Ion: 43 Resp: 17885
 Ion Ratio Lower Upper
 43 100
 58 29.4 10.7 50.7
 42 7.0 0.0 27.6

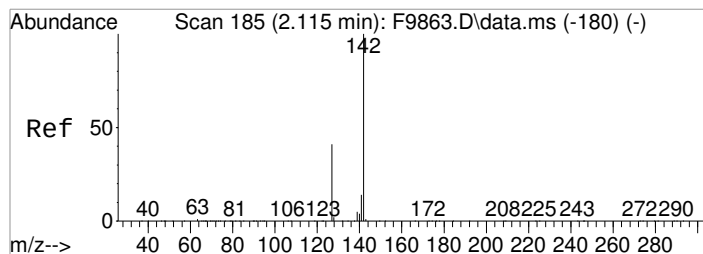


#16
 2-Propanol
 Concen: 3.93 ug/L
 RT: 2.164 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm



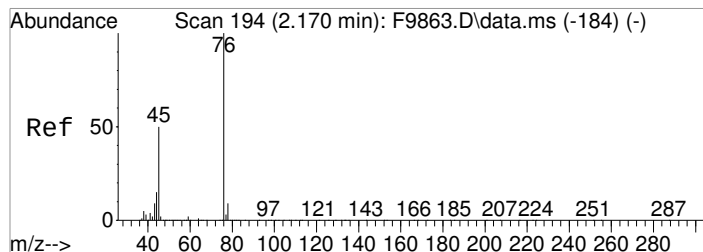
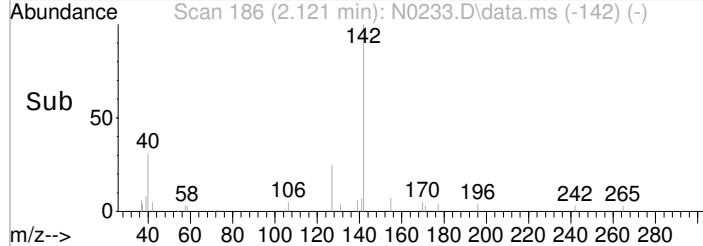
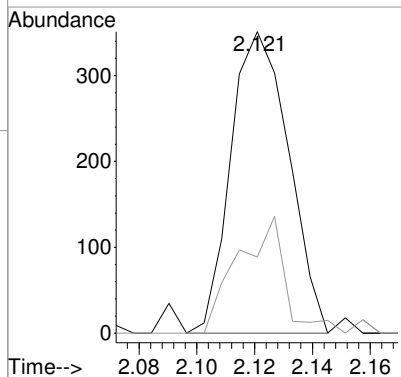
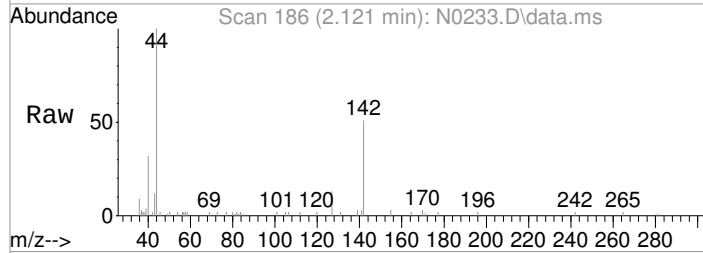
Tgt Ion: 45 Resp: 1206
 Ion Ratio Lower Upper
 45 100
 43 13.9 0.0 39.2





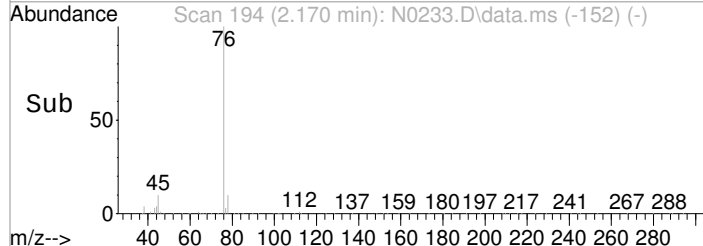
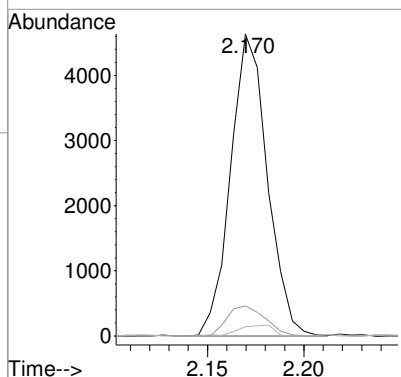
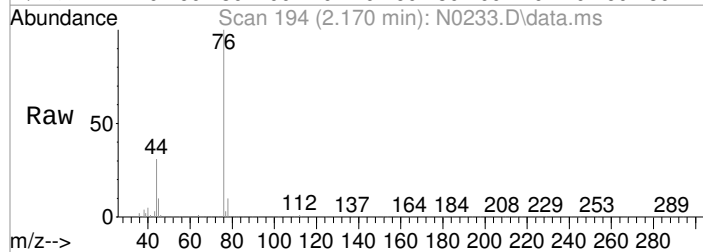
#17
 Iodomethane
 Concen: 1.15 ug/L
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

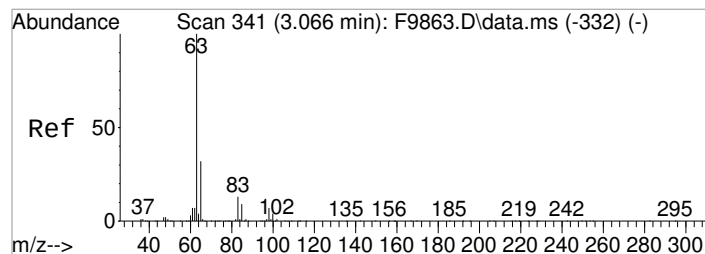
Tgt Ion: 142 Resp: 488
 Ion Ratio Lower Upper
 142 100
 127 25.4 20.6 60.6



#18
 Carbon Disulfide
 Concen: 0.87 ug/L
 RT: 2.170 min Scan# 194
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

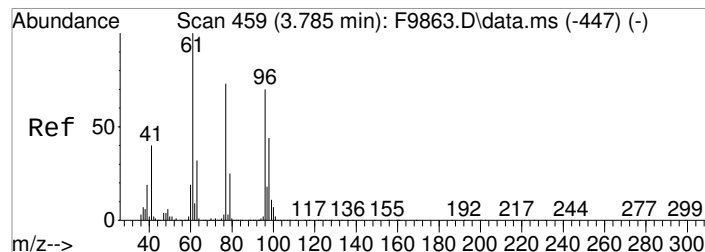
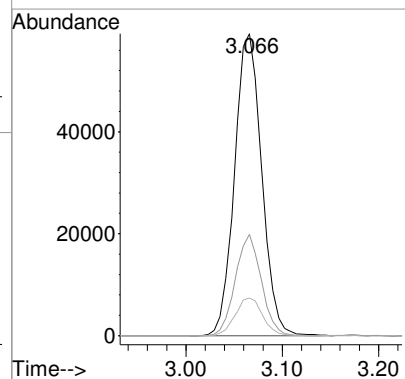
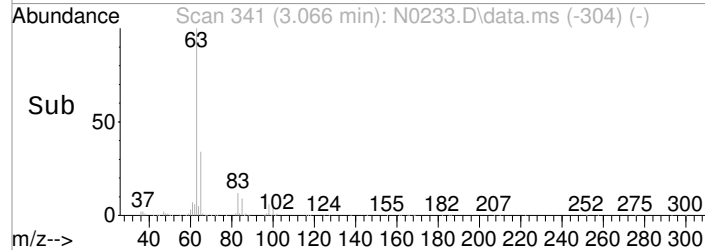
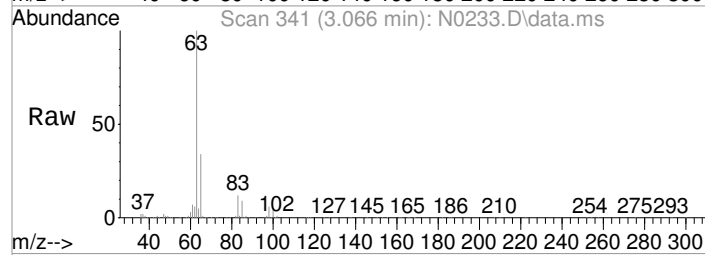
Tgt Ion: 76 Resp: 6149
 Ion Ratio Lower Upper
 76 100
 78 10.0 0.0 29.2
 77 3.0 0.0 22.5





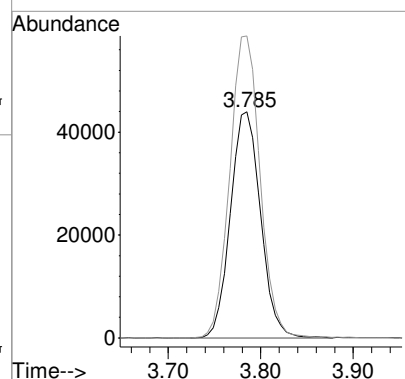
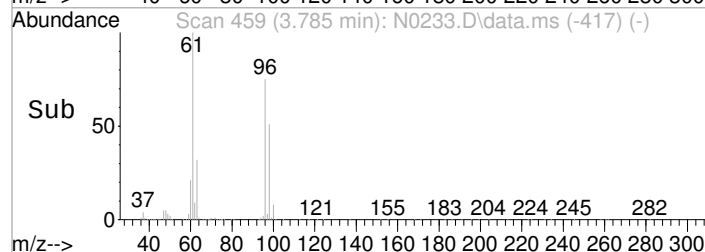
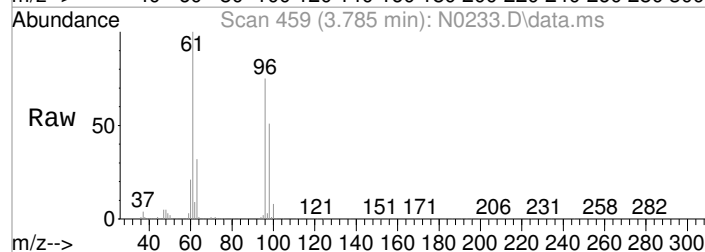
#27
 1,1-Dicloroethane
 Concen: 23.16 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

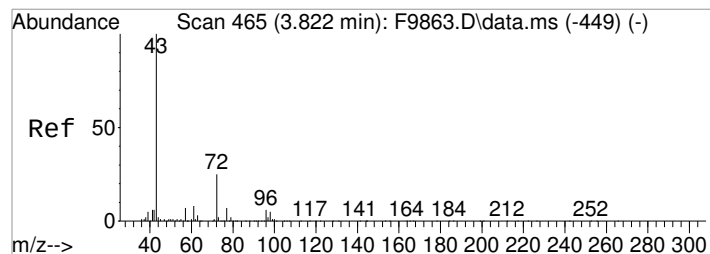
Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.6	12.1	52.1
83	12.5	0.0	32.7



#33
 cis-1,2-Dichloroethene
 Concen: 32.43 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

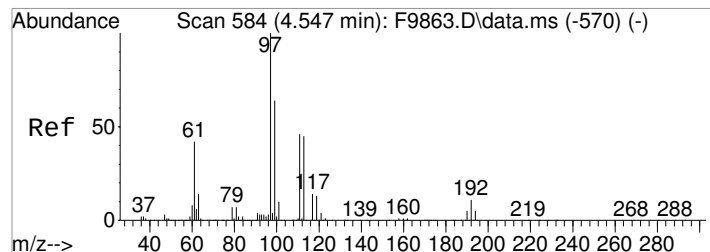
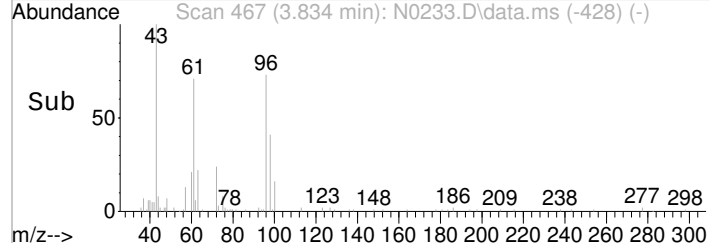
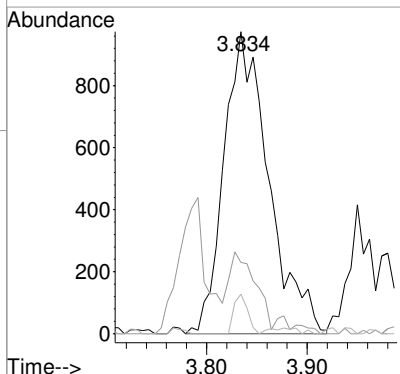
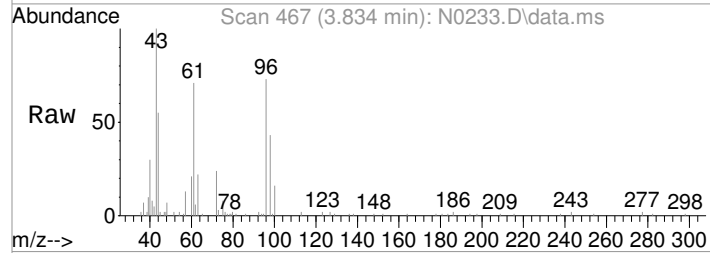
Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.5	122.8	162.8





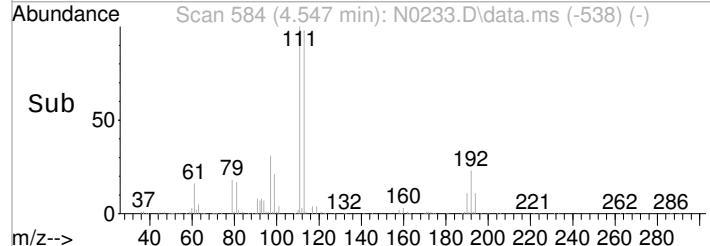
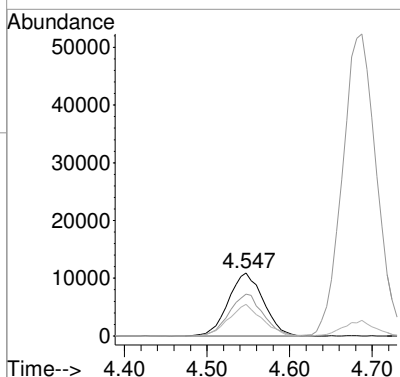
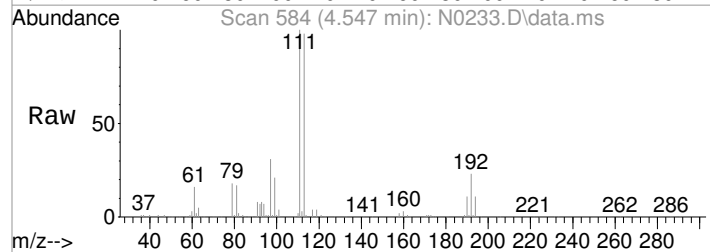
#34
 2-Butanone
 Concen: 1.43 ug/L
 RT: 3.834 min Scan# 467
 Delta R.T. 0.012 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

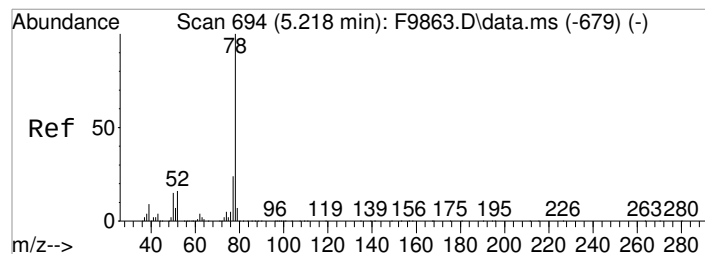
Tgt Ion: 43	Resp: 3013
Ion Ratio	Lower Upper
43 100	
72 23.6	4.9 44.9
57 13.1	0.0 27.6



#40
 1,1,1-Trichloroethane
 Concen: 7.71 ug/L
 RT: 4.547 min Scan# 584
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

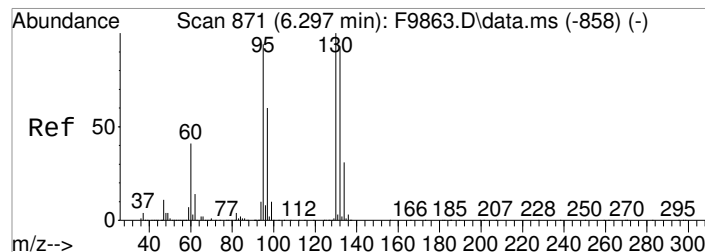
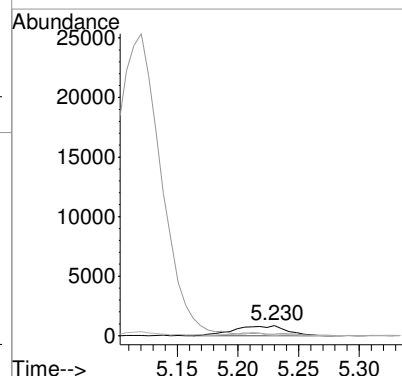
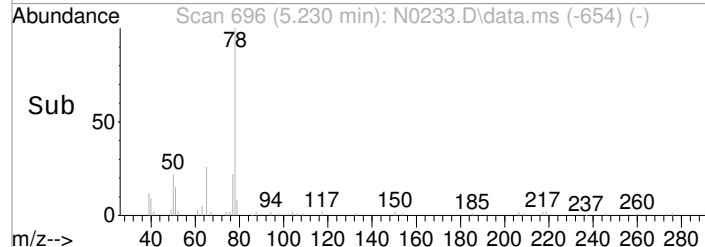
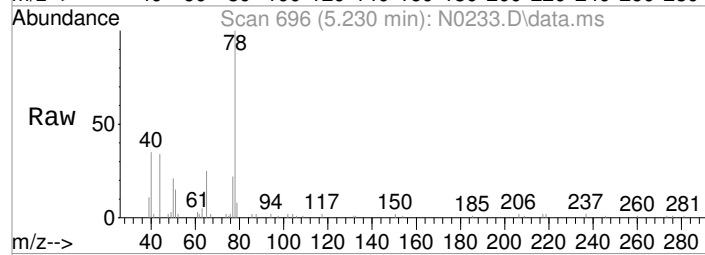
Tgt Ion: 97	Resp: 31964
Ion Ratio	Lower Upper
97 100	
99 66.7	44.4 84.4
61 50.1	22.3 62.3





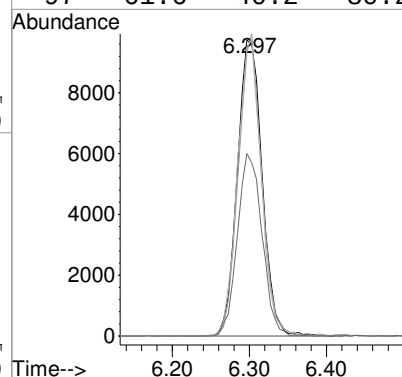
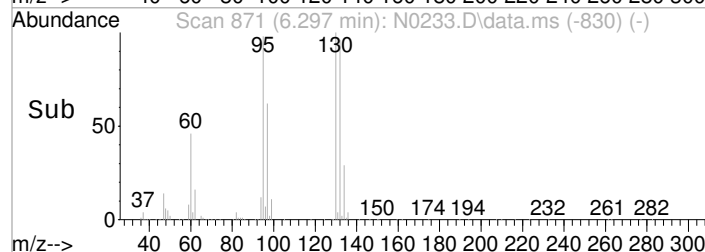
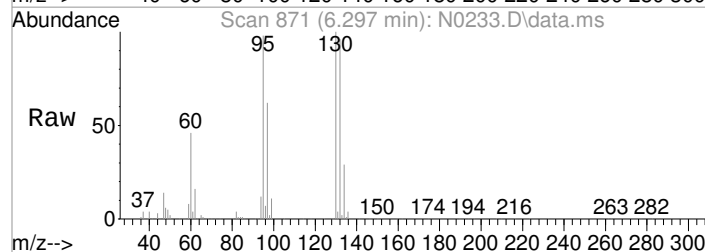
#48
 Benzene
 Concen: 0.22 ug/L m
 RT: 5.230 min Scan# 696
 Delta R.T. 0.012 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

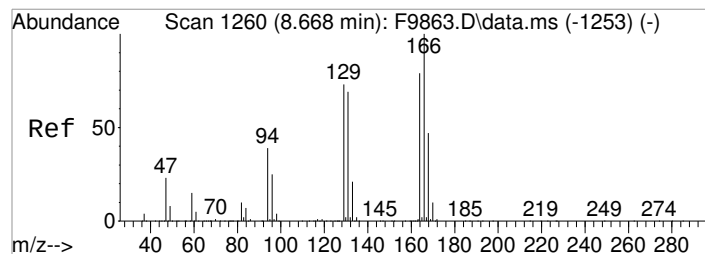
Tgt Ion	78	Resp	2490
Ion Ratio	100	Lower	Upper
51	14.6	0.0	36.4
52	1.6	0.0	36.4



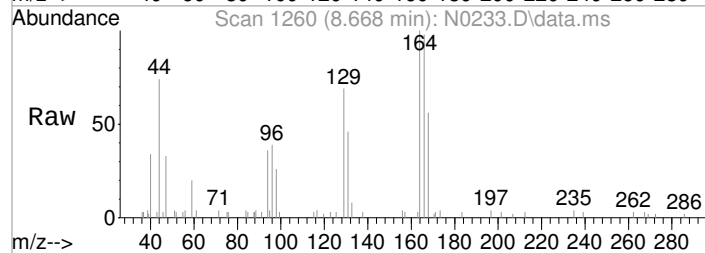
#53
 Trichloroethene
 Concen: 6.59 ug/L
 RT: 6.297 min Scan# 871
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm

Tgt Ion	130	Resp	21699
Ion Ratio	100	Lower	Upper
132	96.0	73.2	113.2
95	97.8	74.3	114.3
97	61.6	40.2	80.2

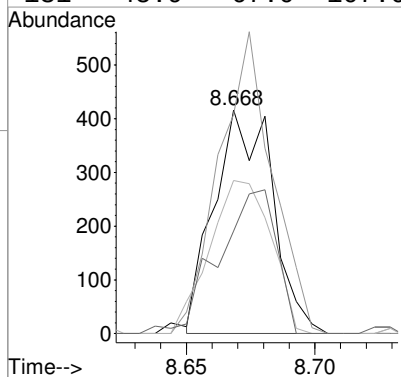
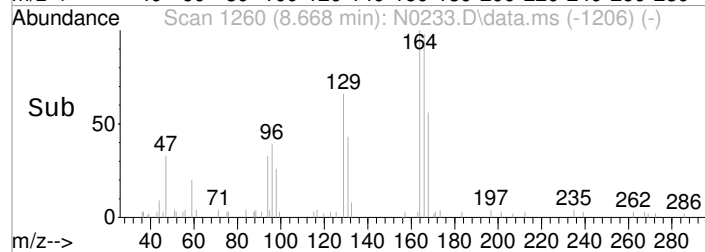




#71
 Tetrachloroethene
 Concen: 0.27 ug/L
 RT: 8.668 min Scan# 1260
 Delta R.T. 0.000 min
 Lab File: N0233.D
 Acq: 25 Sep 2019 4:38 pm



Tgt Ion:	164	Resp:	657
Ion Ratio		Lower	Upper
164	100		
166	98.1	106.0	146.0#
129	68.5	72.1	112.1#
131	45.9	67.0	107.0#



Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0293.D
 Acq On : 26 Sep 2019 4:40 pm
 Operator : F.NAEGLER
 Sample : R1909228-011|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

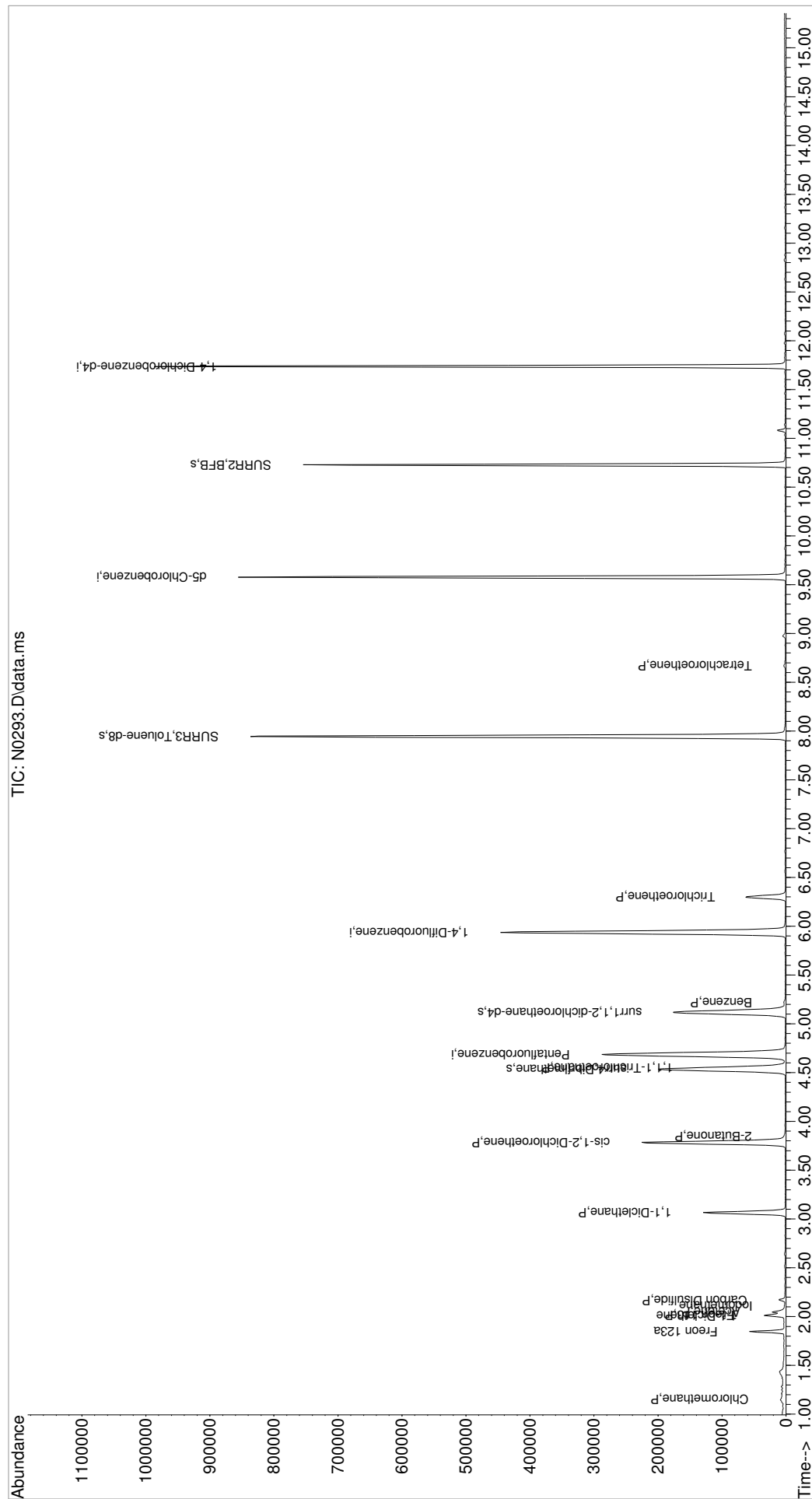
Quant Time: Sep 30 14:49:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

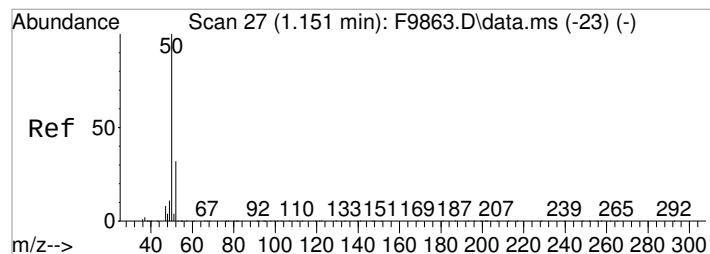
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	286680	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	434807	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	371666	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	189763	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	137487	49.44	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.88%			
47) surr1,1,2-dichloroetha...	5.114	65	177515	54.62	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 109.24%			
64) SURR3,Toluene-d8	7.943	98	537330	49.97	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.94%			
69) SURR2,BFB	10.729	95	190995	47.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.04%			
Target Compounds						
3) Chloromethane	1.151	50	839	0.22	ug/L	Qvalue 87
10) Freon 123a	1.846	67	20745	6.09	ug/L	87
13) 1,1-Dicethene	2.005	96	730	0.28	ug/L	92
14) Freon 113	2.017	101	9313	3.50	ug/L	92
15) Acetone	2.048	43	17292	10.23	ug/L	95
17) Iodomethane	2.115	142	394	1.12	ug/L	82
18) Carbon Disulfide	2.170	76	9249	1.24	ug/L	100
27) 1,1-Dicethane	3.066	63	120372	23.02	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	113743	35.42	ug/L	92
34) 2-Butanone	3.846	43	2781	1.26	ug/L	87
40) 1,1,1-Trichloroethane	4.553	97	32817	7.56	ug/L	96
48) Benzene	5.224	78	2664	0.23	ug/L	98
53) Trichloroethene	6.303	130	24400	7.11	ug/L	97
71) Tetrachloroethene	8.674	164	659	0.26	ug/L	88

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

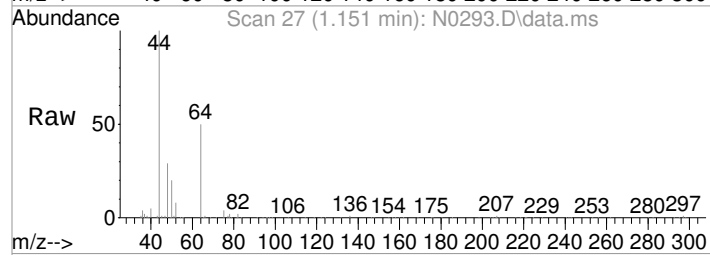
Data Path : I:\ACQUDATA\MSV0A14\Data\092619\
Data File : N0293.D
Acq On : 26 Sep 2019 4:40 pm
Operator : F.NAEGLER
Sample : R1909228-011|1.0
Misc : VERINA 7979 T4
ALS Vial : 10 Sample Multiplier: 1
Inst : MSV0A14

Quant Time: Sep 30 14:49:16 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\W0911119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

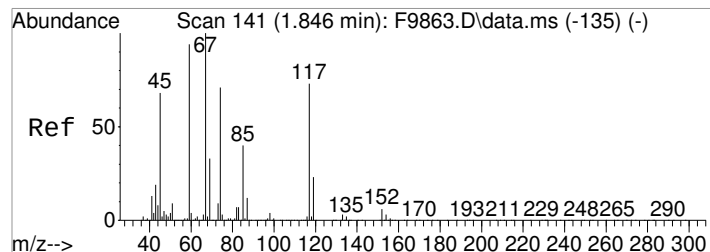
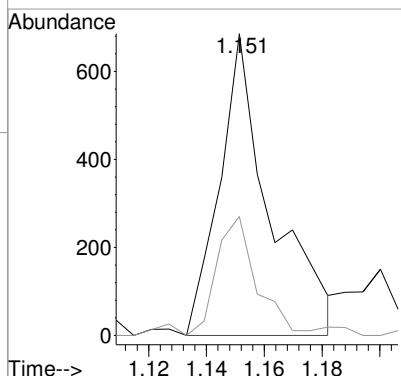
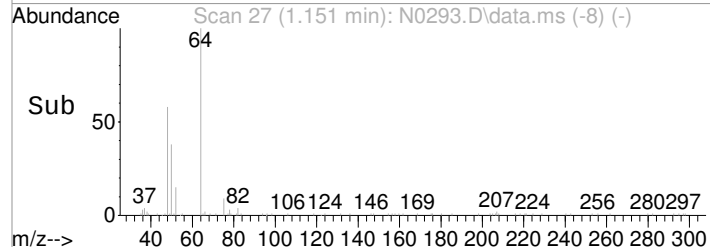




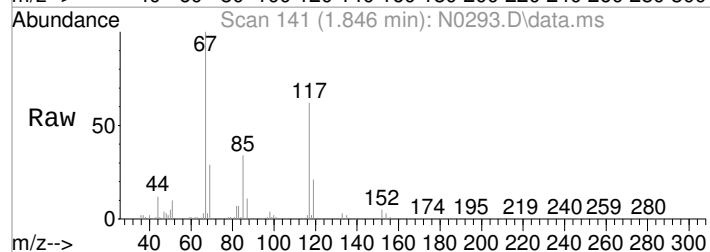
#3
 Chloromethane
 Concen: 0.22 ug/L
 RT: 1.151 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm



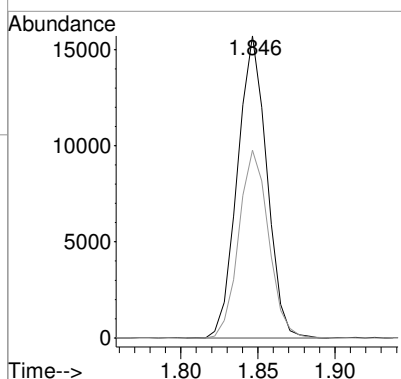
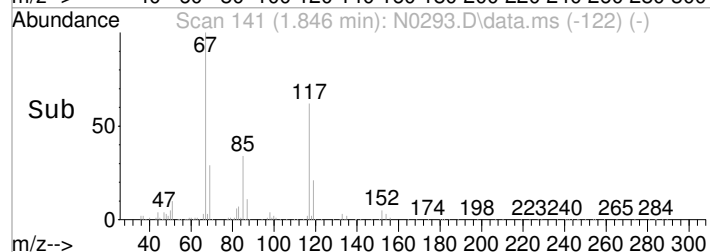
Tgt Ion: 50 Resp: 839
 Ion Ratio Lower Upper
 50 100
 52 39.5 12.2 52.2

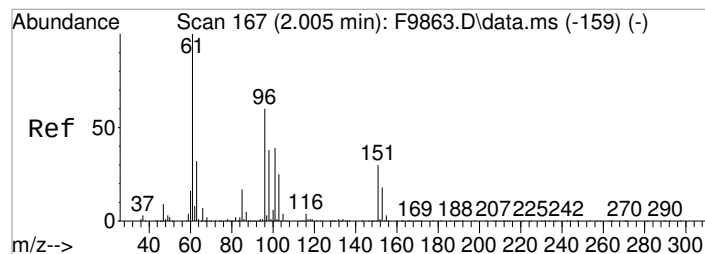


#10
 Freon 123a
 Concen: 6.09 ug/L
 RT: 1.846 min Scan# 141
 Delta R.T. -0.000 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm



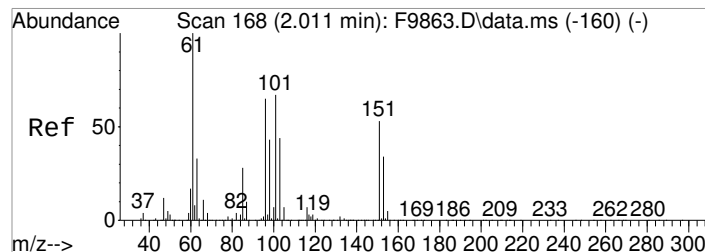
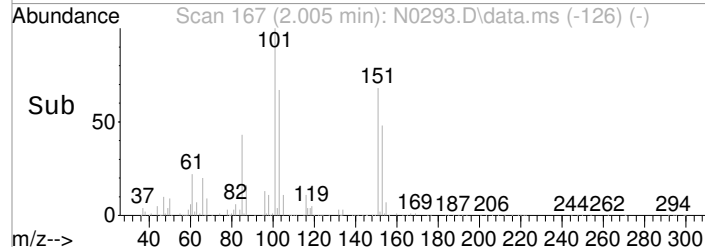
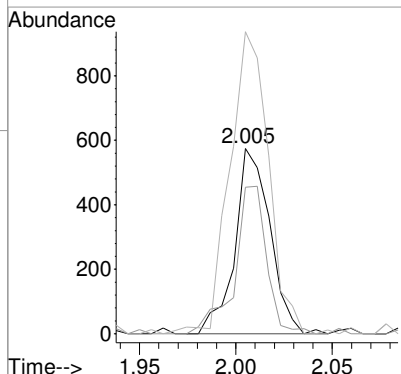
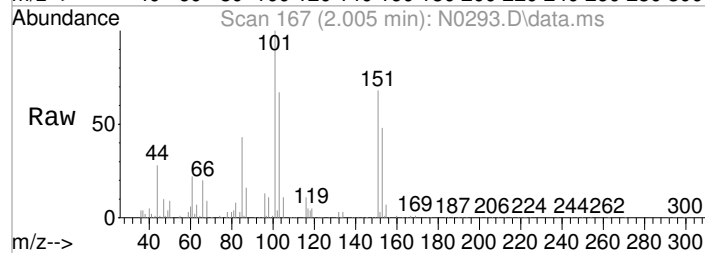
Tgt Ion: 67 Resp: 20745
 Ion Ratio Lower Upper
 67 100
 117 62.2 53.4 93.4





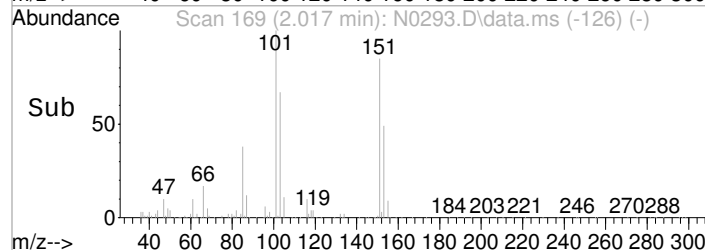
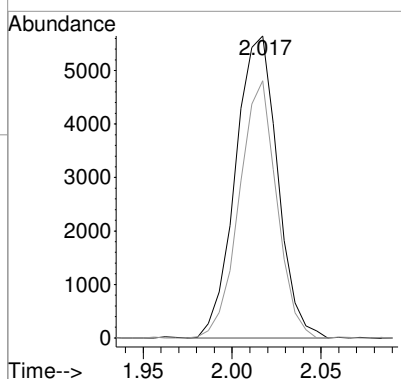
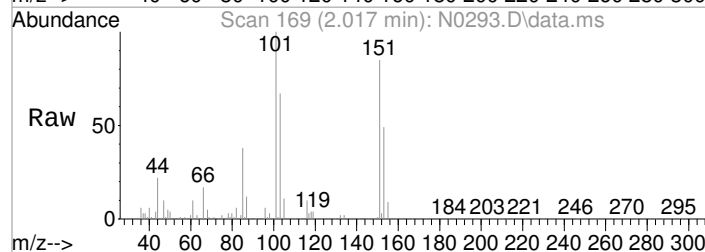
#13
 1,1-Dicloroethene
 Concen: 0.28 ug/L
 RT: 2.005 min Scan# 167
 Delta R.T. -0.000 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

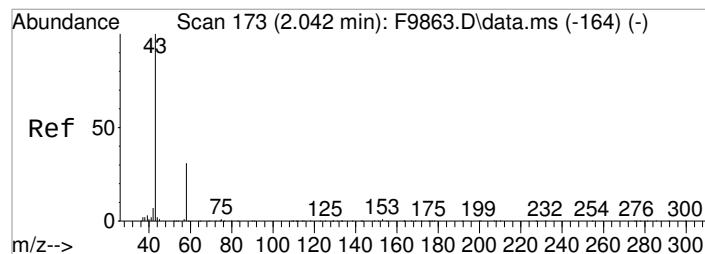
Tgt Ion: 96 Resp: 730
 Ion Ratio Lower Upper
 96 100
 98 81.7 43.9 83.9
 61 163.0 146.8 186.8



#14
 Freon 113
 Concen: 3.50 ug/L
 RT: 2.017 min Scan# 169
 Delta R.T. 0.006 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

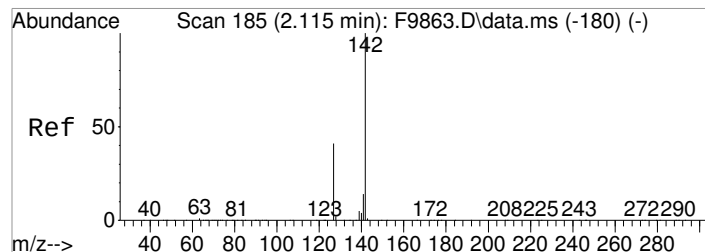
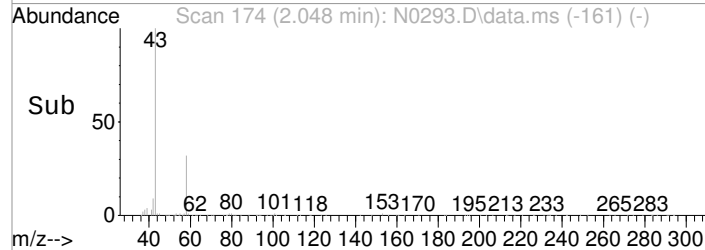
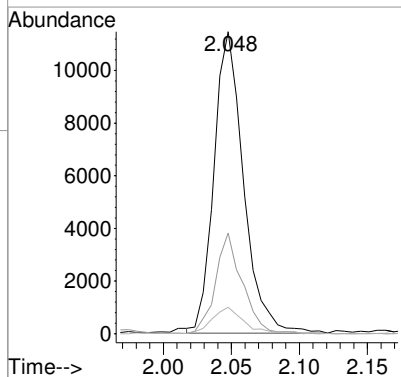
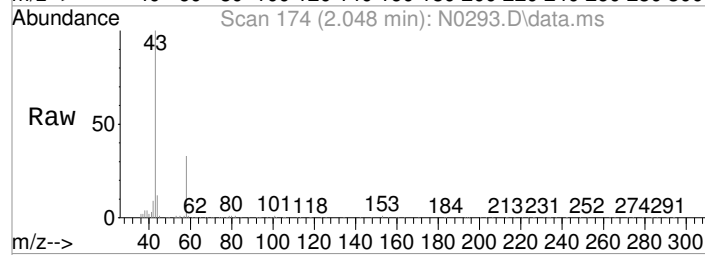
Tgt Ion: 101 Resp: 9313
 Ion Ratio Lower Upper
 101 100
 151 85.1 58.4 98.4





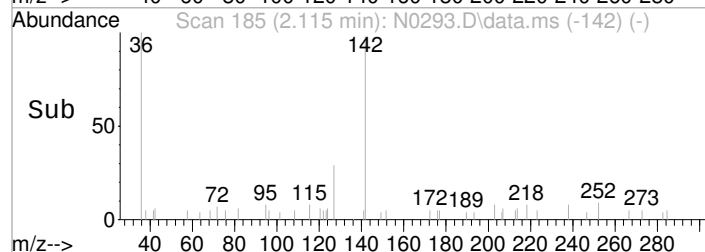
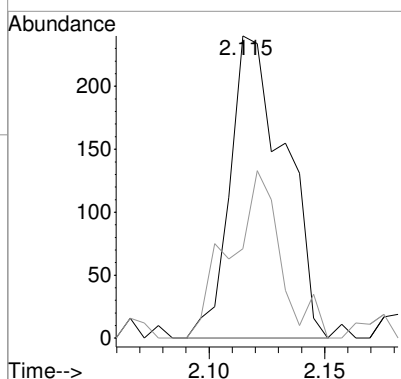
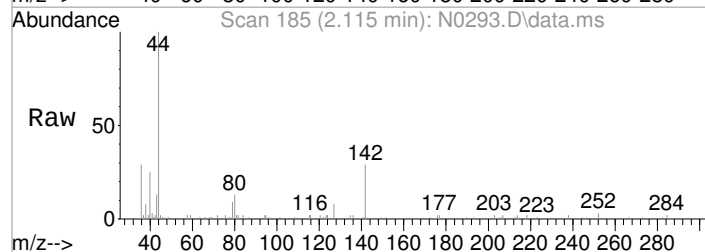
#15
 Acetone
 Concen: 10.23 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.007 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

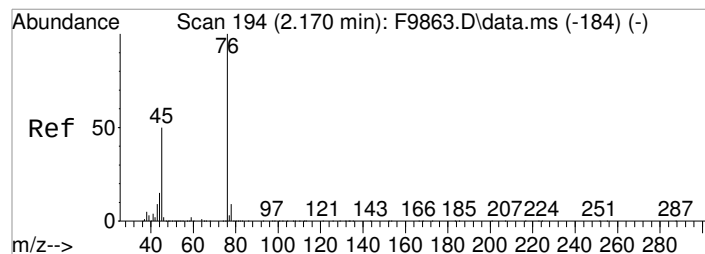
Tgt Ion: 43 Resp: 17292
 Ion Ratio Lower Upper
 43 100
 58 33.4 10.7 50.7
 42 8.8 0.0 27.6



#17
 Iodomethane
 Concen: 1.12 ug/L
 RT: 2.115 min Scan# 185
 Delta R.T. 0.001 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

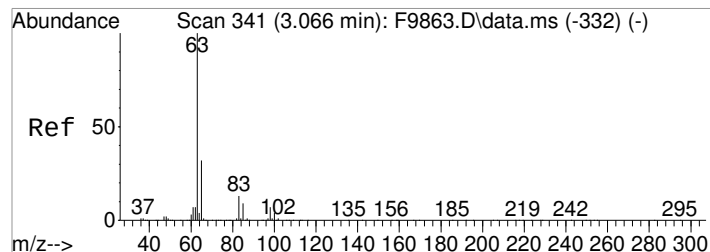
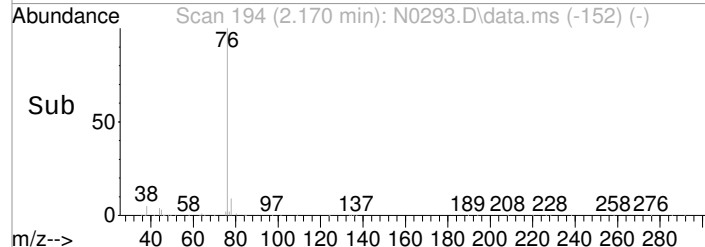
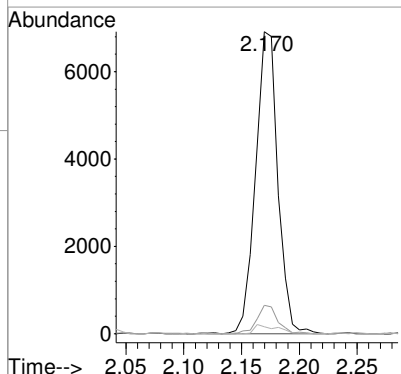
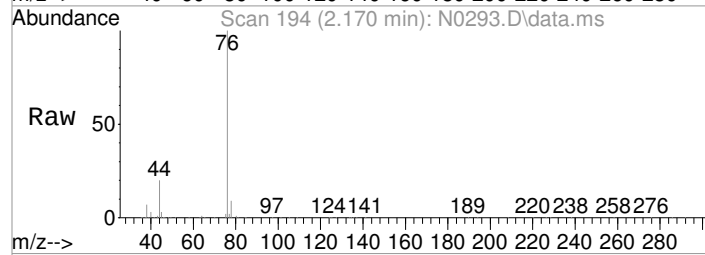
Tgt Ion: 142 Resp: 394
 Ion Ratio Lower Upper
 142 100
 127 29.6 20.6 60.6





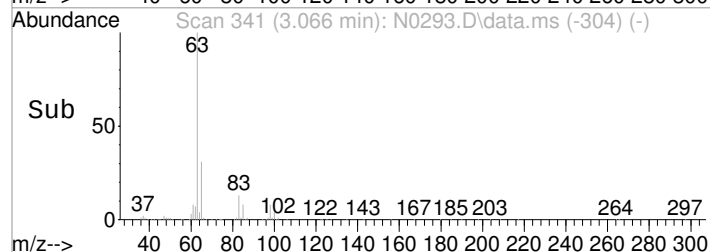
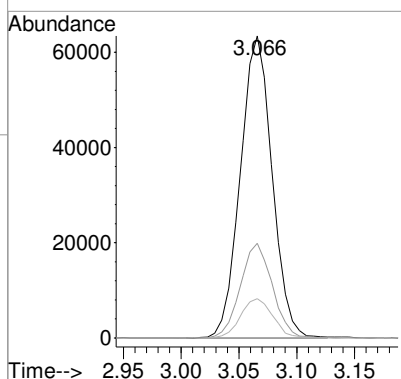
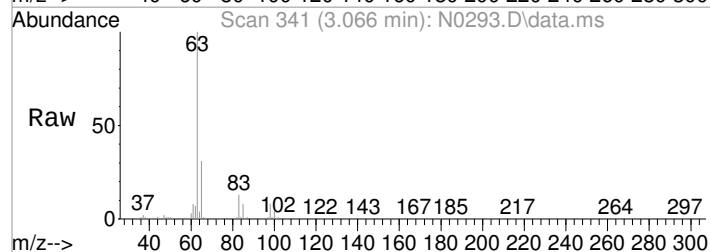
#18
 Carbon Disulfide
 Concen: 1.24 ug/L
 RT: 2.170 min Scan# 194
 Delta R.T. -0.000 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

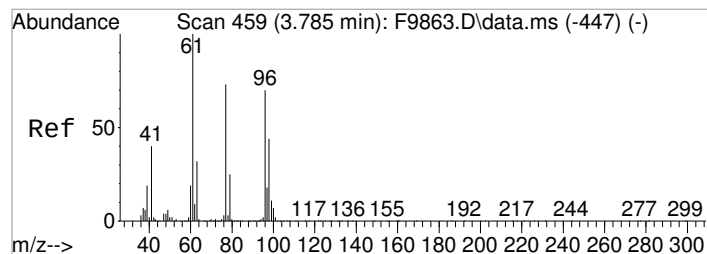
Tgt Ion:	76	Resp:	9249
Ion Ratio		Lower	Upper
76	100		
78	9.4	0.0	29.2
77	2.3	0.0	22.5



#27
 1,1-Dicethane
 Concen: 23.02 ug/L
 RT: 3.066 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

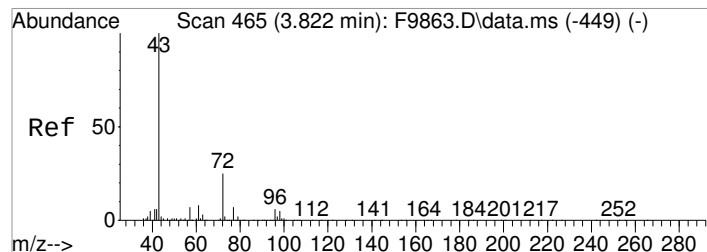
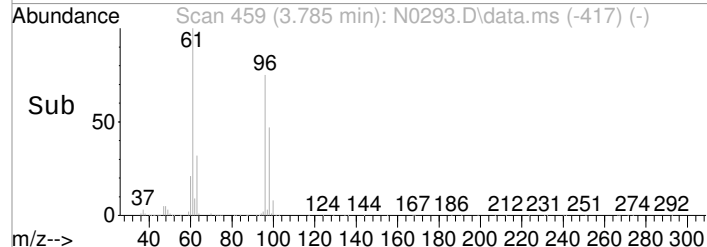
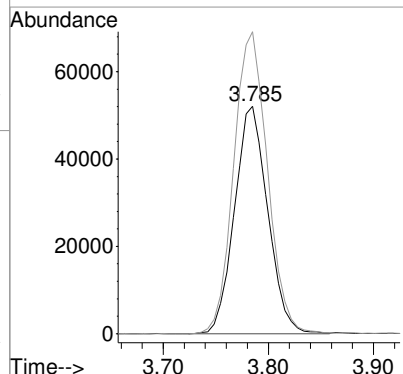
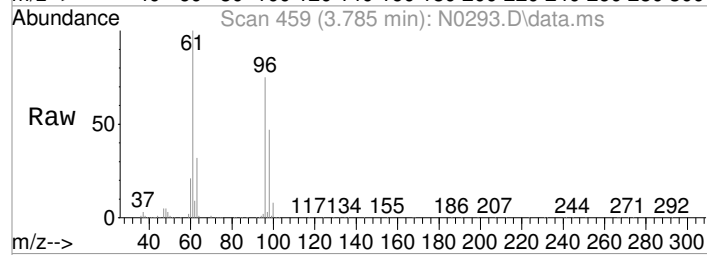
Tgt Ion:	63	Resp:	120372
Ion Ratio		Lower	Upper
63	100		
65	31.3	12.1	52.1
83	13.0	0.0	32.7





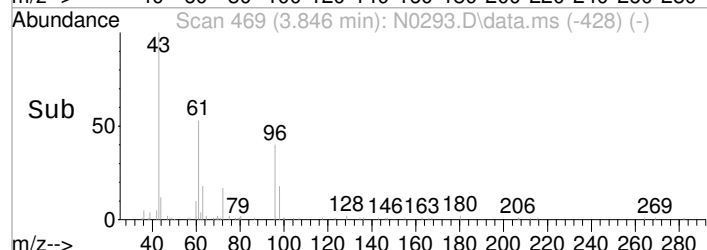
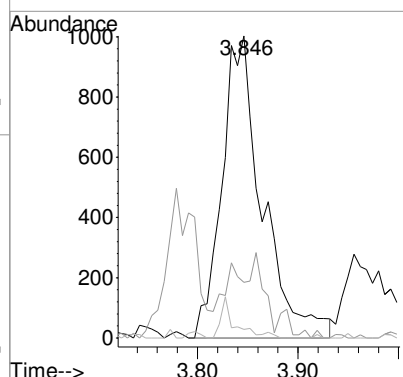
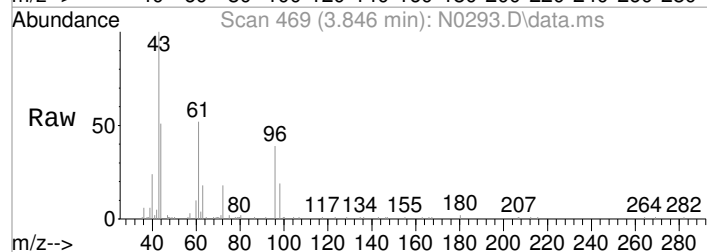
#33
 cis-1,2-Dichloroethene
 Concen: 35.42 ug/L
 RT: 3.785 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

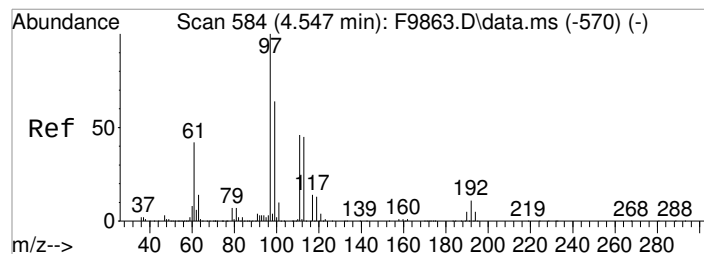
Tgt Ion: 96 Resp: 113743
 Ion Ratio Lower Upper
 96 100
 61 132.7 122.8 162.8



#34
 2-Butanone
 Concen: 1.26 ug/L
 RT: 3.846 min Scan# 469
 Delta R.T. 0.024 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

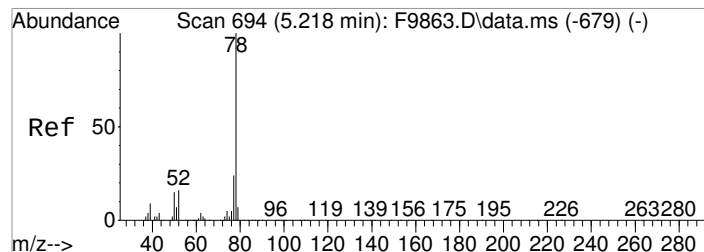
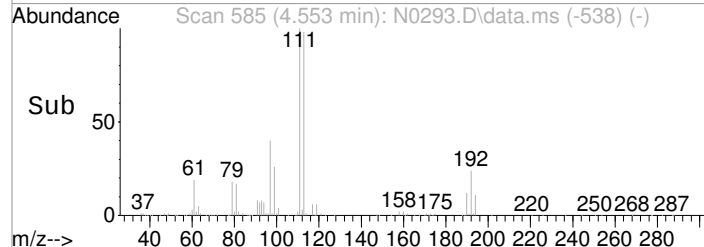
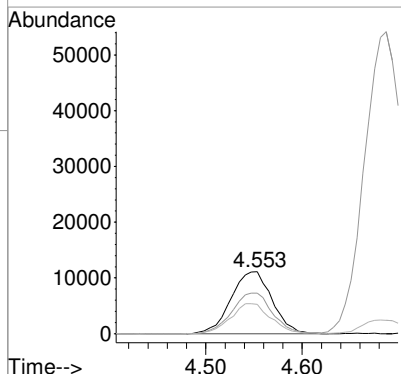
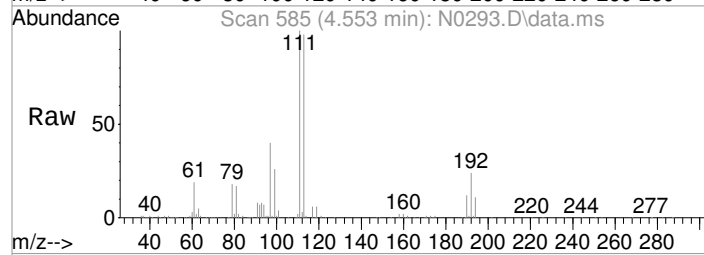
Tgt Ion: 43 Resp: 2781
 Ion Ratio Lower Upper
 43 100
 72 18.4 4.9 44.9
 57 2.8 0.0 27.6





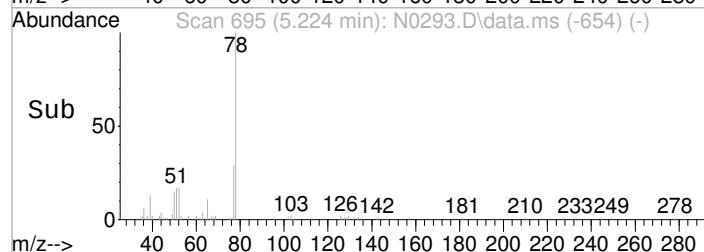
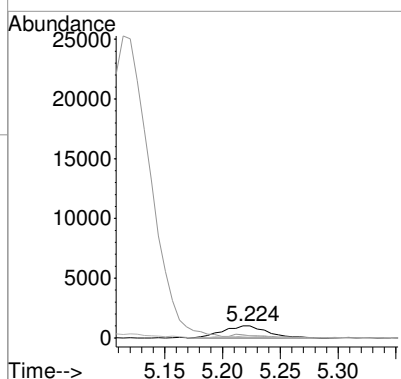
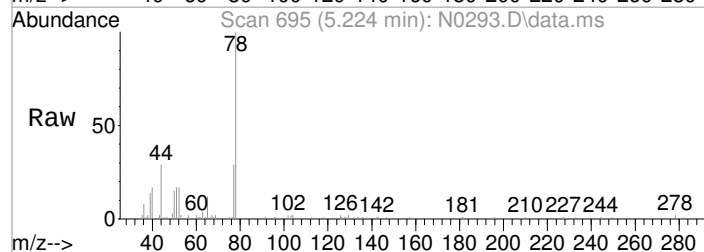
#40
 1,1,1-Trichloroethane
 Concen: 7.56 ug/L
 RT: 4.553 min Scan# 585
 Delta R.T. 0.006 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

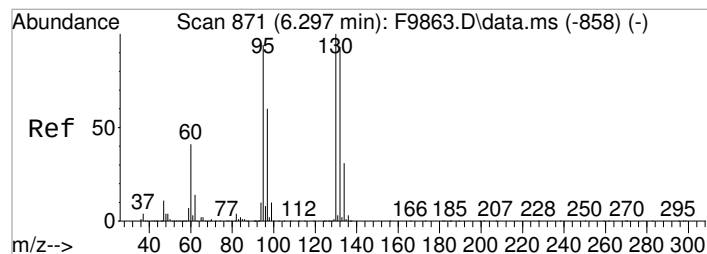
Tgt Ion:	97	Resp:	32817
Ion Ratio	100	Lower	Upper
99	65.4	44.4	84.4
61	47.1	22.3	62.3



#48
 Benzene
 Concen: 0.23 ug/L
 RT: 5.224 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

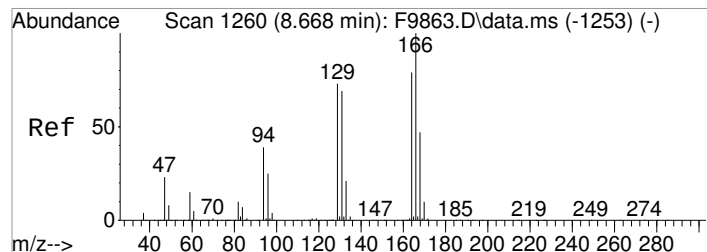
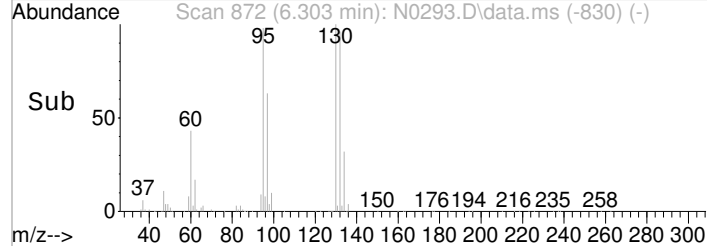
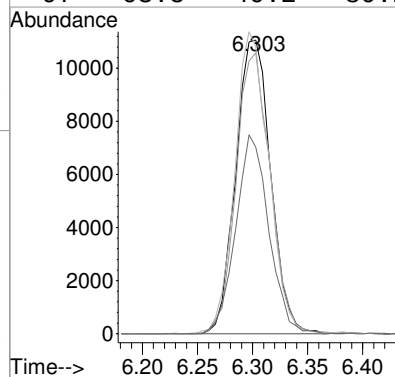
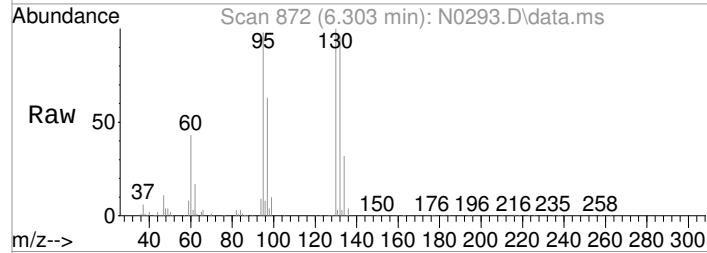
Tgt Ion:	78	Resp:	2664
Ion Ratio	100	Lower	Upper
51	17.5	0.0	36.4
52	16.9	0.0	36.4





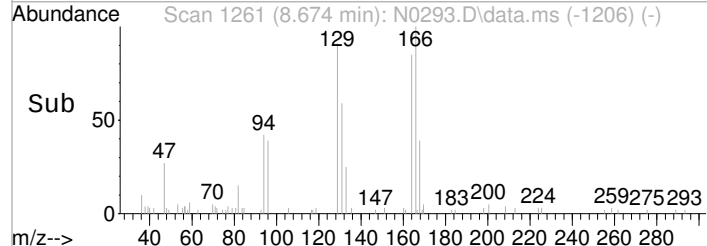
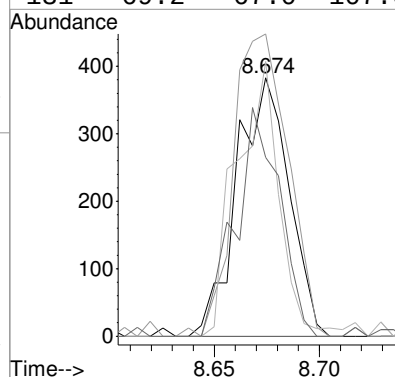
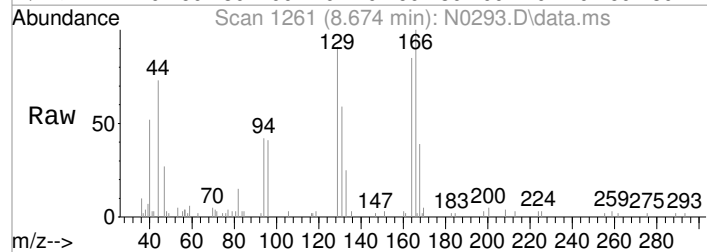
#53
 Trichloroethene
 Concen: 7.11 ug/L
 RT: 6.303 min Scan# 872
 Delta R.T. 0.006 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	24400		
132	95.7	73.2	113.2	
95	97.9	74.3	114.3	
97	63.5	40.2	80.2	



#71
 Tetrachloroethene
 Concen: 0.26 ug/L
 RT: 8.674 min Scan# 1261
 Delta R.T. 0.006 min
 Lab File: N0293.D
 Acq: 26 Sep 2019 4:40 pm

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	659		
166	119.6	106.0	146.0	
129	106.3	72.1	112.1	
131	69.2	67.0	107.0	



Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0224.D
 Acq On : 25 Sep 2019 1:02 pm
 Operator : F.NAEGLER
 Sample : MBLK-UNP
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

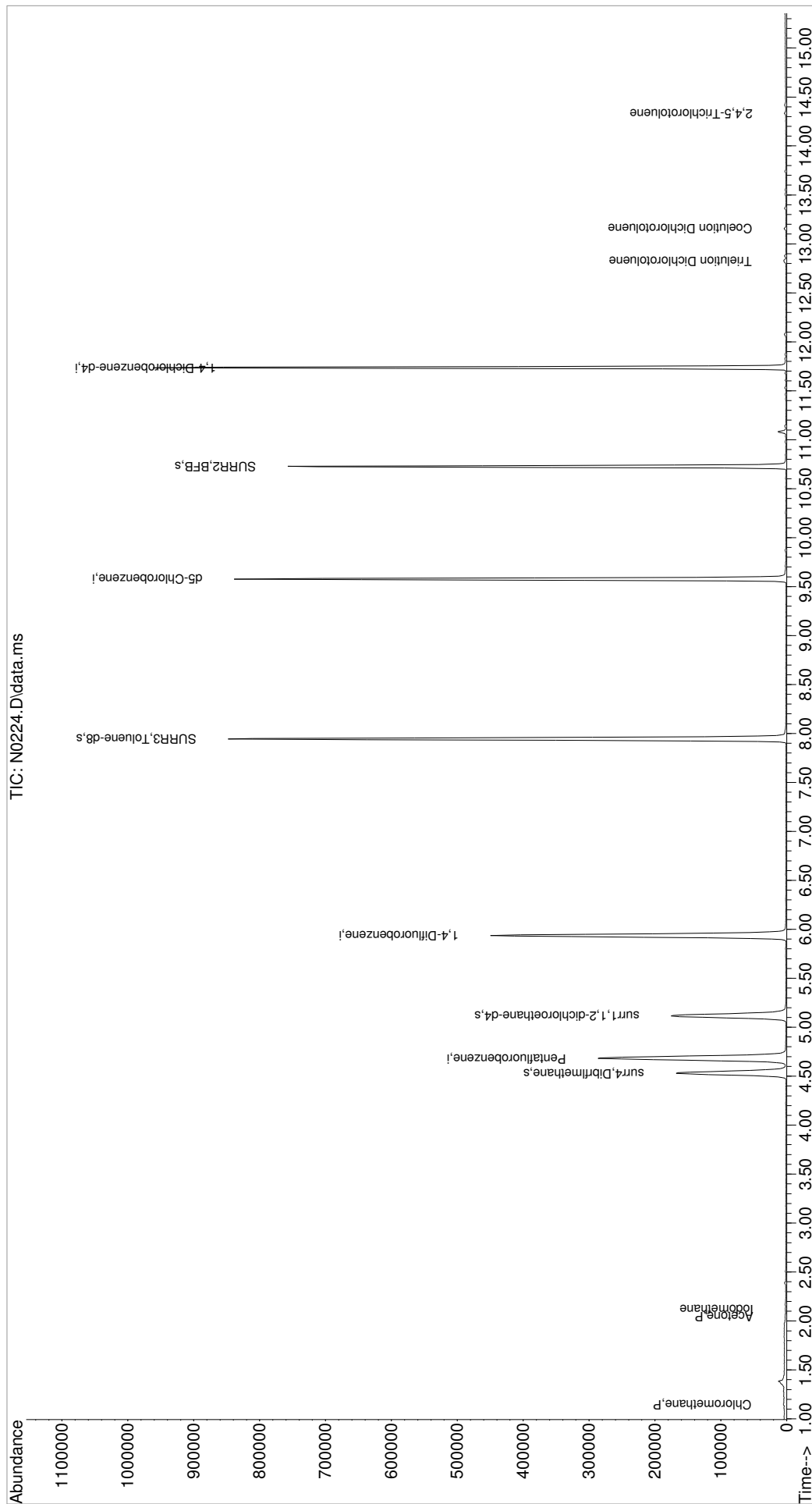
Quant Time: Sep 29 13:03:14 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

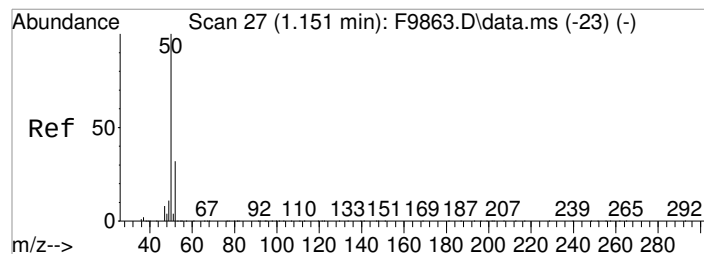
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	284201	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	429305	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	370778	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	188791	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	137931	50.24	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.48%	
47) surr1,1,2-dichloroetha...	5.114	65	176806	55.10	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.20%	
64) SURR3,Toluene-d8	7.943	98	531978	50.11	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.22%	
69) SURR2,BFB	10.729	95	194982	48.61	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.22%	
Target Compounds						
3) Chloromethane	1.145	50	770	0.20	ug/L	93
15) Acetone	2.048	43	624	0.37	ug/L	93
17) Iodomethane	2.121	142	478	1.15	ug/L	94
111) Trielution Dichlorotol...	12.826	125	1732	0.34	ug/L #	76
113) Coelution Dichlorotoluene	13.155	125	1164	0.21	ug/L	83
118) 2,4,5-Trichlorotoluene	14.332	159	687	0.25	ug/L	86

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

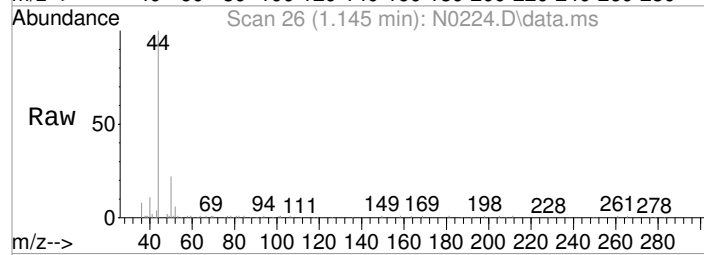
Data Path : I:\ACQUDATA\MSV0A14\Data\092519\
 Data File : N0224.D
 Acq On : 25 Sep 2019 1:02 pm
 Operator : F.NAEGLER
 Sample : MBLK-UNP
 Misc :
 ALS Vial : 4 Sample Multiplier: 1
 Inst : MSV0A14

Quant Time: Sep 29 13:03:14 2019
 Quant Method : I:\ACQUDATA\MSV0A14\Methods\w0911119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 Qlast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

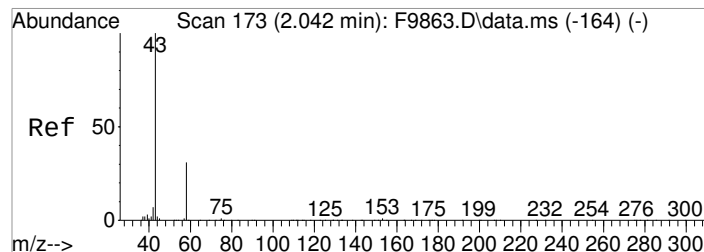
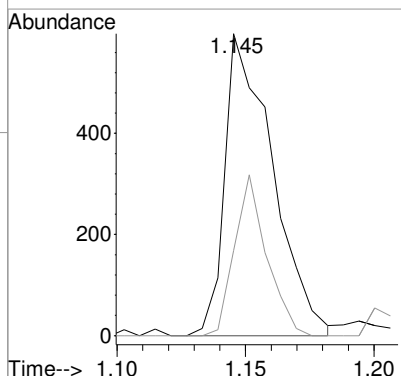
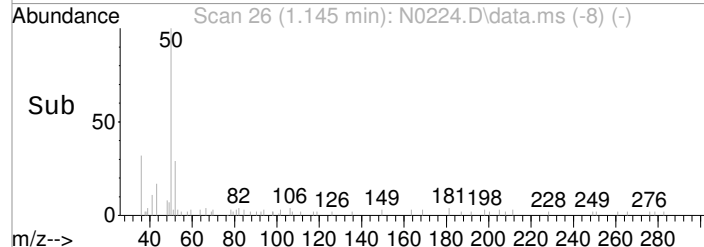




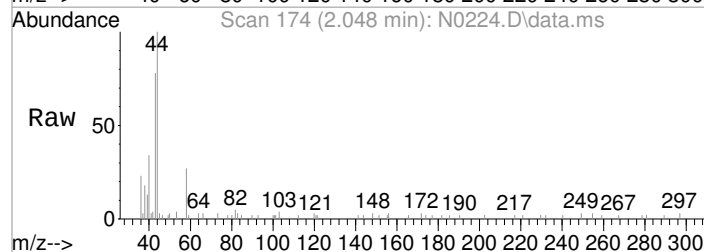
#3
 Chloromethane
 Concen: 0.20 ug/L
 RT: 1.145 min Scan# 26
 Delta R.T. -0.006 min
 Lab File: N0224.D
 Acq: 25 Sep 2019 1:02 pm



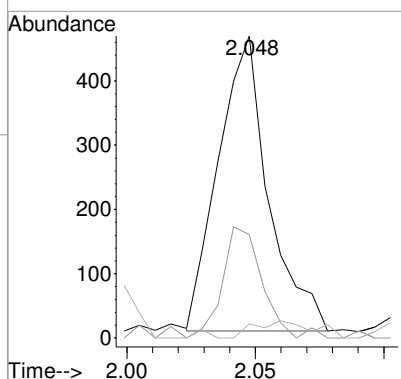
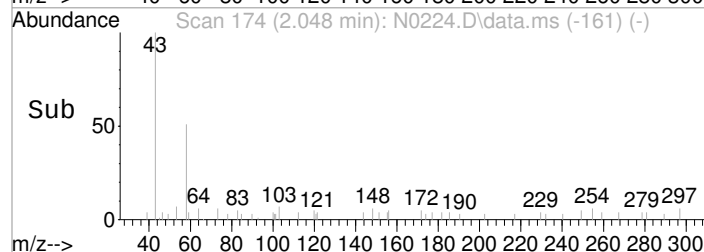
Tgt Ion: 50 Resp: 770
 Ion Ratio Lower Upper
 50 100
 52 28.1 12.2 52.2

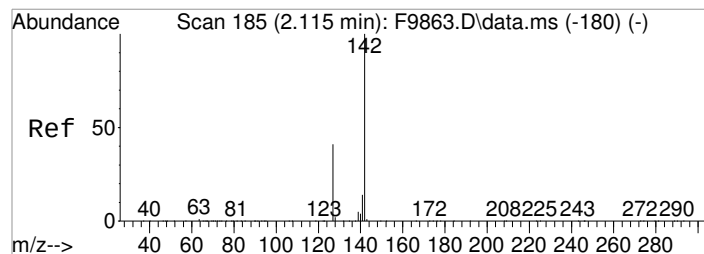


#15
 Acetone
 Concen: 0.37 ug/L
 RT: 2.048 min Scan# 174
 Delta R.T. 0.007 min
 Lab File: N0224.D
 Acq: 25 Sep 2019 1:02 pm

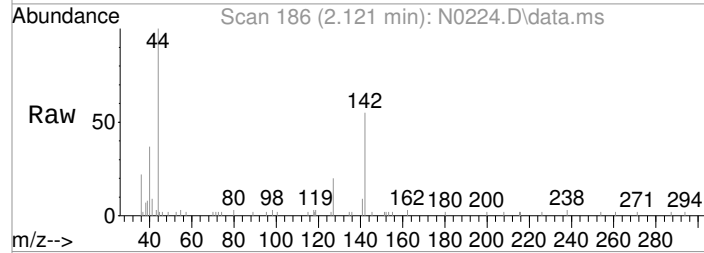


Tgt Ion: 43 Resp: 624
 Ion Ratio Lower Upper
 43 100
 58 34.3 10.7 50.7
 42 4.7 0.0 27.6

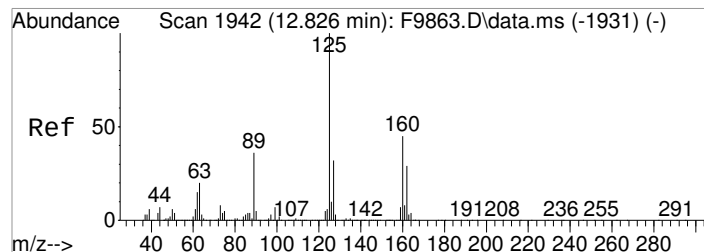
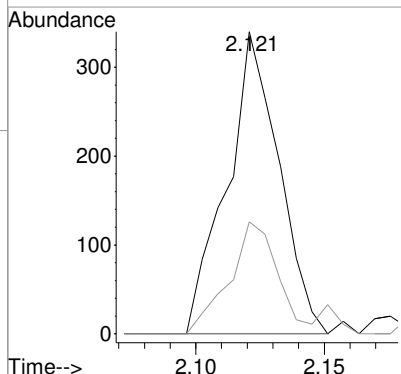
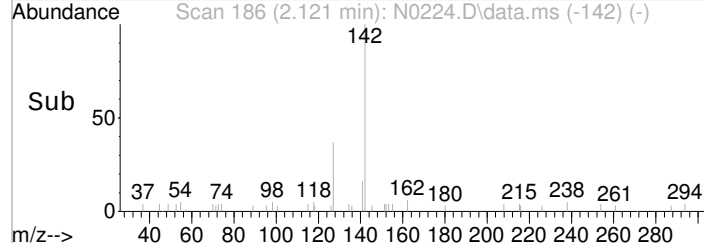




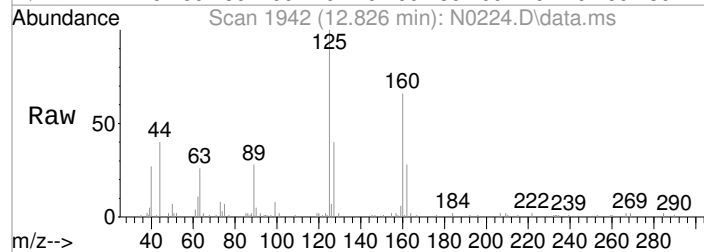
#17
 Iodomethane
 Concen: 1.15 ug/L
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: N0224.D
 Acq: 25 Sep 2019 1:02 pm



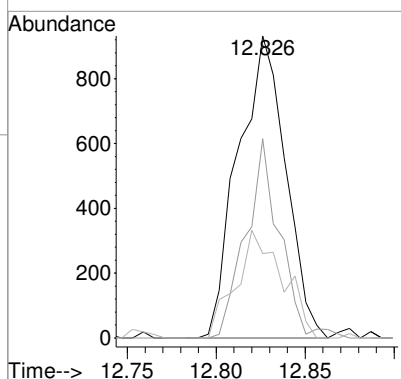
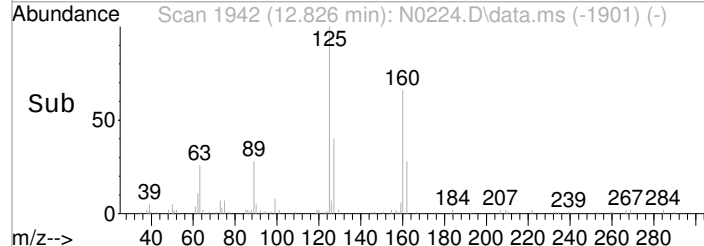
Tgt Ion:142 Resp: 478
 Ion Ratio Lower Upper
 142 100
 127 37.1 20.6 60.6

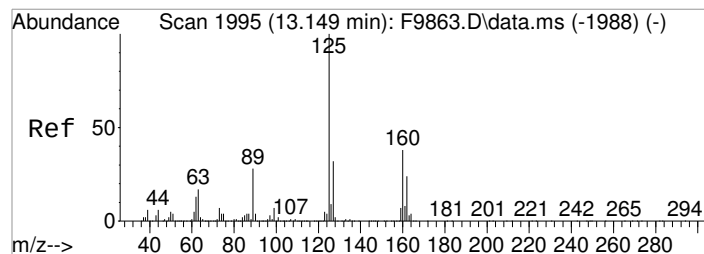


#111
 Trilution Dichlorotoluene
 Concen: 0.34 ug/L
 RT: 12.826 min Scan# 1942
 Delta R.T. 0.000 min
 Lab File: N0224.D
 Acq: 25 Sep 2019 1:02 pm



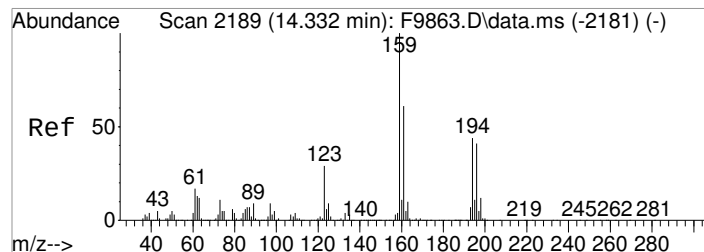
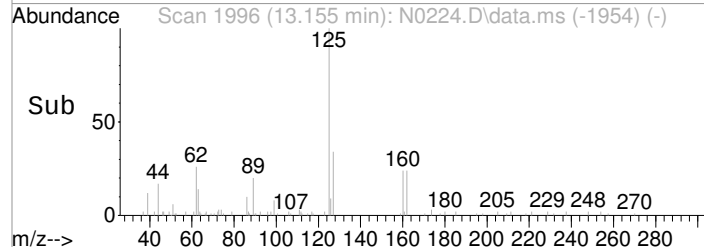
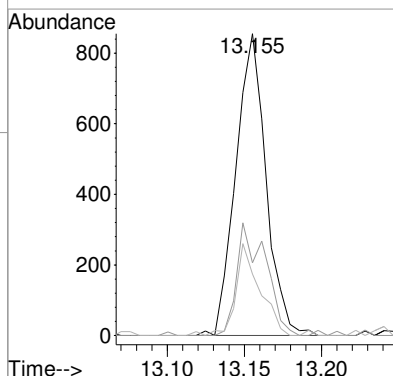
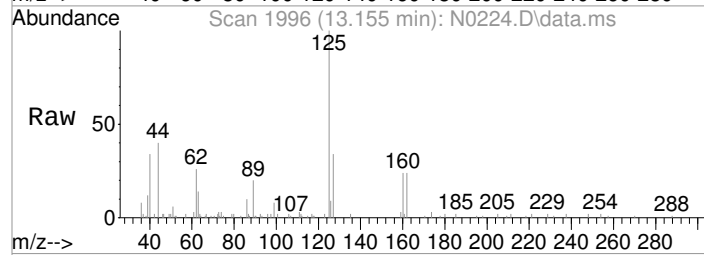
Tgt Ion:125 Resp: 1732
 Ion Ratio Lower Upper
 125 100
 160 66.0 24.9 64.9#
 89 27.9 16.0 56.0





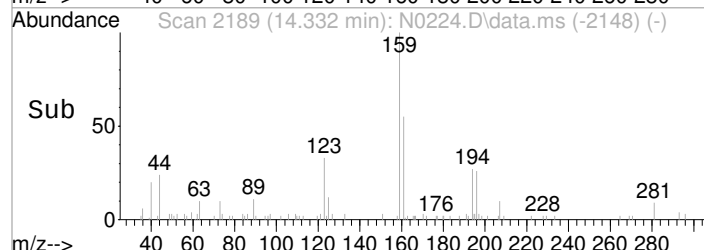
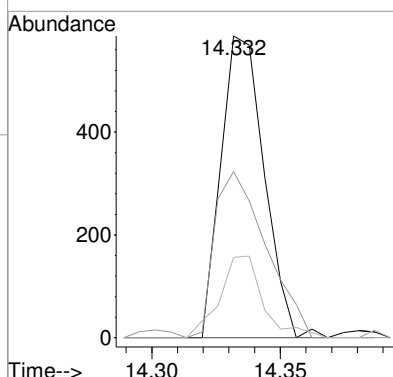
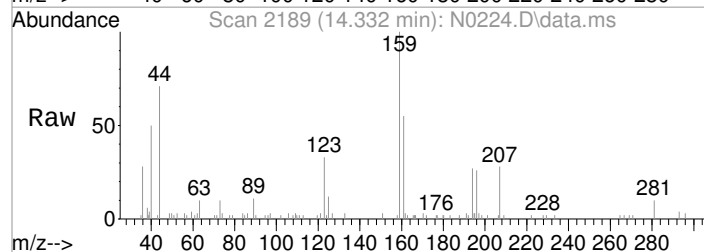
#113
 Coelution Dichlorotoluene
 Concen: 0.21 ug/L
 RT: 13.155 min Scan# 1996
 Delta R.T. 0.006 min
 Lab File: N0224.D
 Acq: 25 Sep 2019 1:02 pm

Tgt Ion	125	160	89
Ratio	100	26.0	20.4
Resp	1164	17.9	7.8
Upper		57.9	47.8



#118
 2,4,5-Trichlorotoluene
 Concen: 0.25 ug/L
 RT: 14.332 min Scan# 2189
 Delta R.T. 0.000 min
 Lab File: N0224.D
 Acq: 25 Sep 2019 1:02 pm

Tgt Ion	159	161	194
Ratio	100	55.0	29.5
Resp	687	40.7	24.4
Upper		80.7	64.4



Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0224.D
Acq On : 25 Sep 2019 1:02 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Integration Parameters: CPD4.P

Integrator: RTE
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Title : MS#14 - 8260 WATERS 5mL Purge

Signal : TIC: N0224.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.383	55	65	68	rBV3	8340	17258	1.21%	0.230%
2	4.529	569	581	595	rBV	166765	454674	31.94%	6.068%
3	4.681	595	606	623	rVB	284820	802089	56.34%	10.705%
4	5.114	666	677	696	rBV	173977	492835	34.62%	6.577%
5	5.937	802	812	827	rBV	448258	998477	70.14%	13.326%
6	7.943	1134	1141	1154	rBV	846510	1423596	100.00%	18.999%
7	9.577	1403	1409	1418	rBV	837350	1162640	81.67%	15.517%
8	10.729	1592	1598	1608	rBV	755632	958190	67.31%	12.788%
9	11.082	1651	1656	1661	rVB	11738	16383	1.15%	0.219%
10	11.735	1758	1763	1775	rBV	960394	1166692	81.95%	15.571%

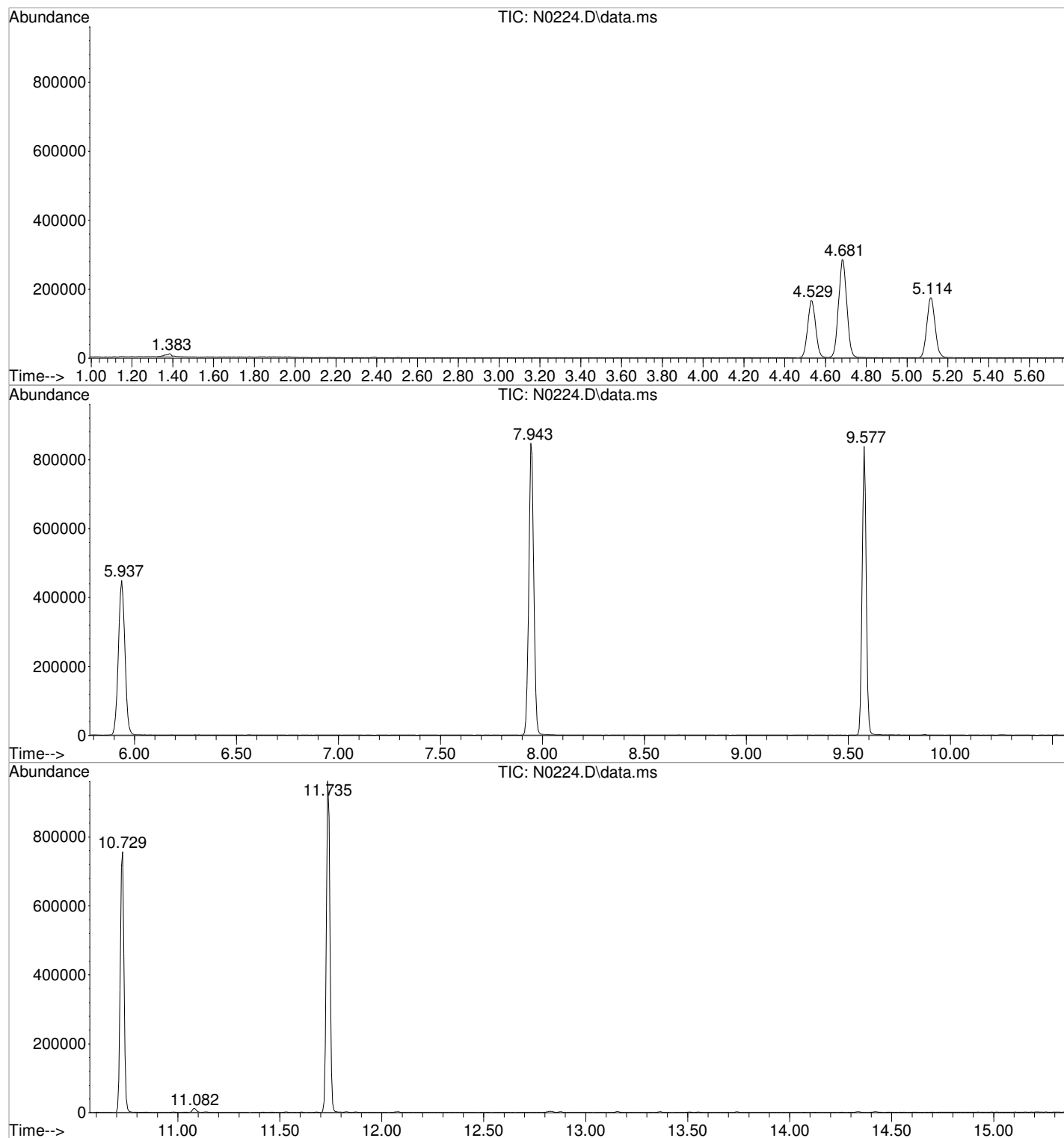
Sum of corrected areas: 7492834

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0224.D
Acq On : 25 Sep 2019 1:02 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

1st *FJ* 09/29/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0224.D
Acq On : 25 Sep 2019 1:02 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

1st *FJ* 09/29/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0224.D
Acq On : 25 Sep 2019 1:02 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0287.D
 Acq On : 26 Sep 2019 2:24 pm
 Operator : F.NAEGLER
 Sample : MBLK-UNP
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

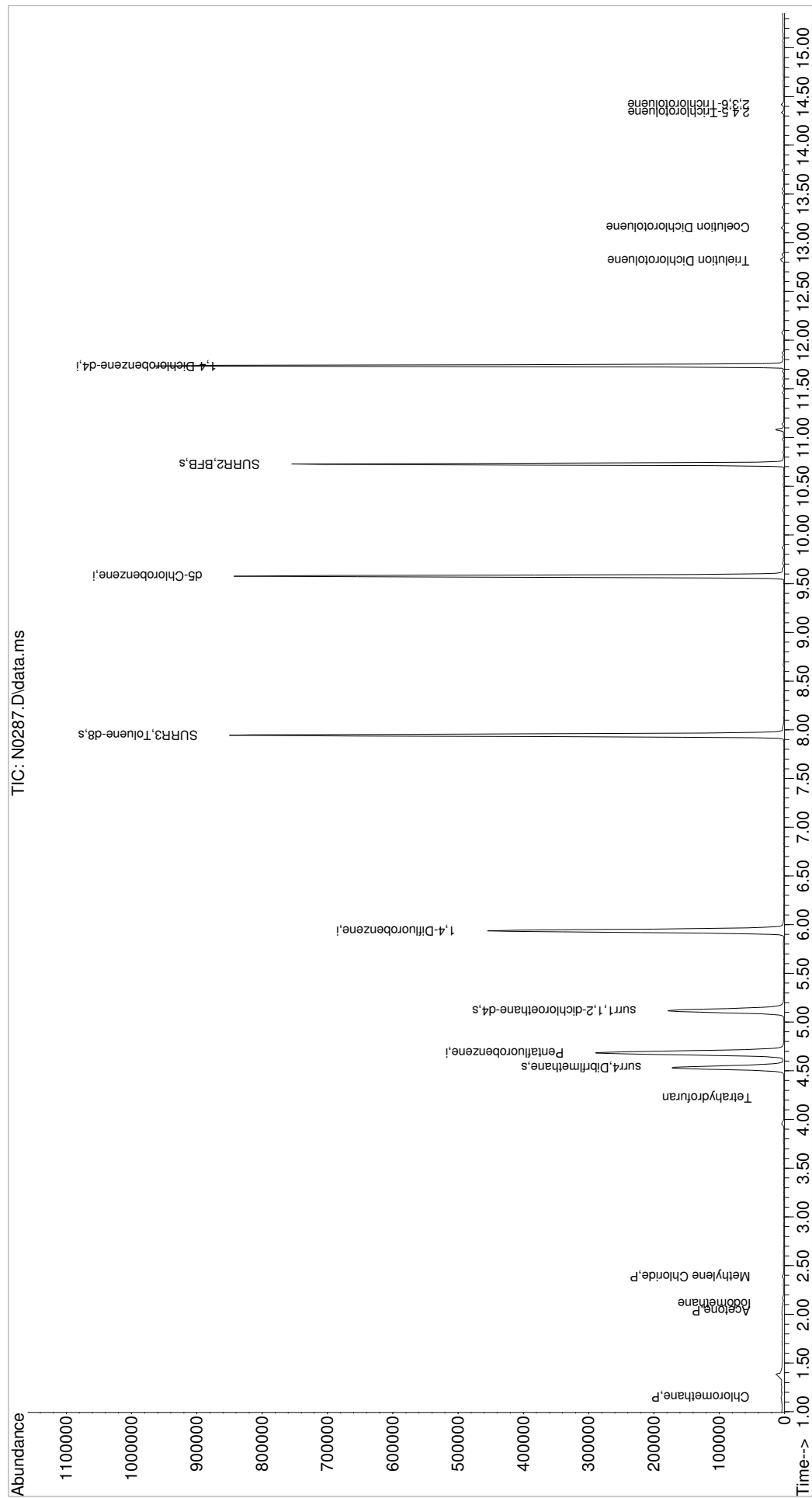
Quant Time: Sep 30 14:22:55 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

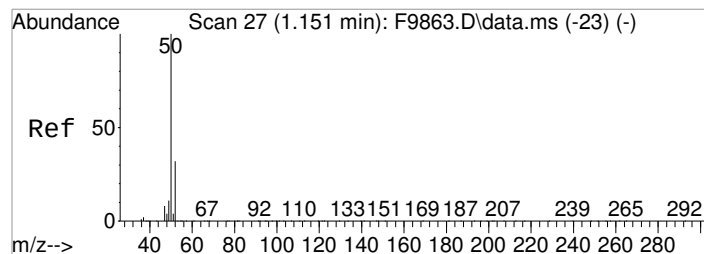
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	291197	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	435825	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	375827	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	188963	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	137003	49.15	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	98.30%		
47) surr1,1,2-dichloroetha...	5.114	65	178144	54.69	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	109.38%		
64) SURR3,Toluene-d8	7.943	98	541848	50.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	100.54%		
69) SURR2,BFB	10.729	95	196430	48.24	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	96.48%		
Target Compounds						
3) Chloromethane	1.151	50	788	0.20	ug/L	93
15) Acetone	2.041	43	1036	0.60	ug/L	80
17) Iodomethane	2.115	142	424	1.12	ug/L	81
22) Methylene Chloride	2.389	84	851	0.27	ug/L #	79
38) Tetrahydrofuran	4.224	42	459	0.32	ug/L	94
111) Trielution Dichlorotol...	12.820	125	2561	0.50	ug/L	89
113) Coelution Dichlorotoluene	13.155	125	1690	0.30	ug/L	88
118) 2,4,5-Trichlorotoluene	14.338	159	785	0.29	ug/L	94
119) 2,3,6-Trichlorotoluene	14.417	159	702	0.24	ug/L	94

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

Data Path : I:\ACQUDATA\MSV0A14\Data\092619\
Data File : N0287.D
Acq On : 26 Sep 2019 2:24 pm
Operator : F.NAEGLER
Sample : MBLK-UNP
Misc :
ALS Vial : 4 Sample Multiplier: 1
Inst : MSV0A14

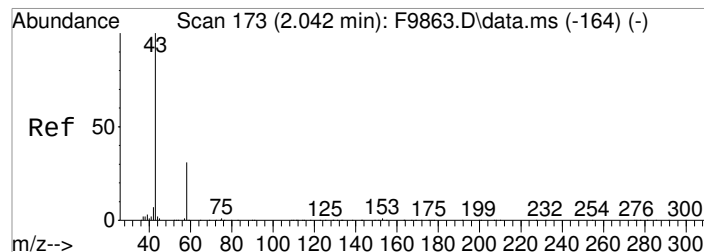
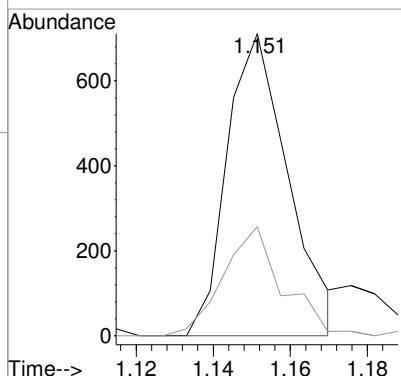
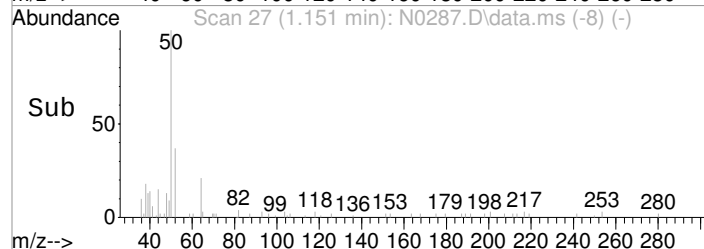
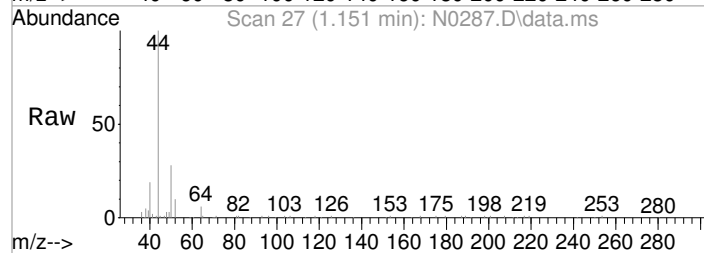
Quant Time: Sep 30 14:22:55 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\w0911119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
Qlast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration





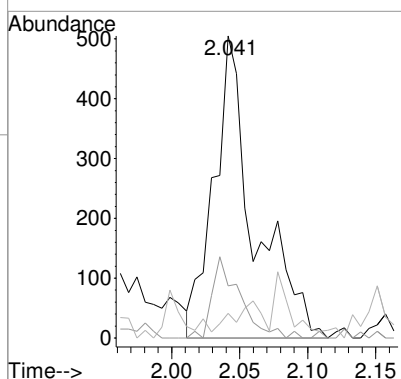
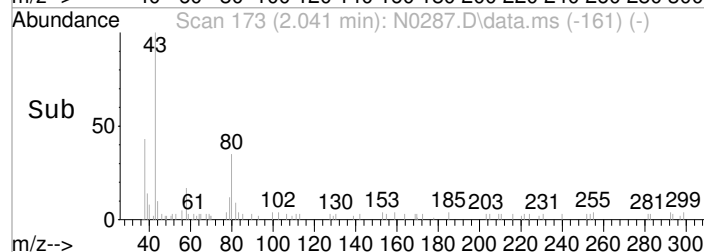
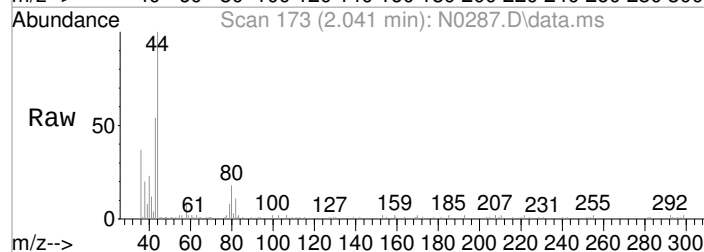
#3
 Chloromethane
 Concen: 0.20 ug/L
 RT: 1.151 min Scan# 27
 Delta R.T. -0.000 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

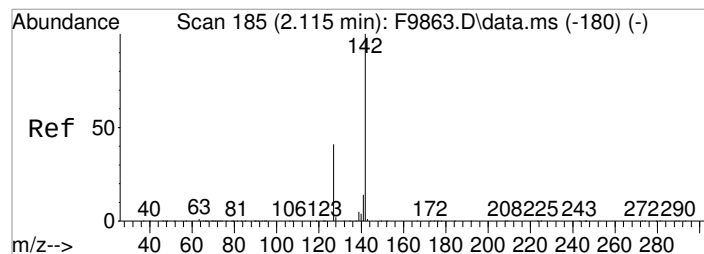
Tgt Ion: 50 Resp: 788
 Ion Ratio Lower Upper
 50 100
 52 36.1 12.2 52.2



#15
 Acetone
 Concen: 0.60 ug/L
 RT: 2.041 min Scan# 173
 Delta R.T. 0.000 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

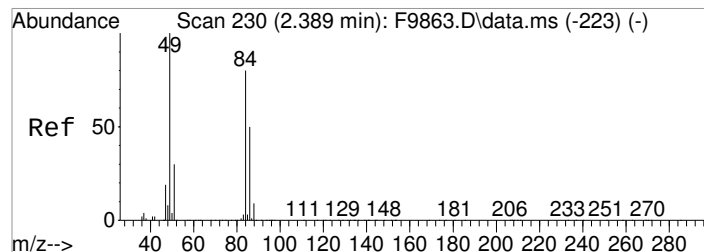
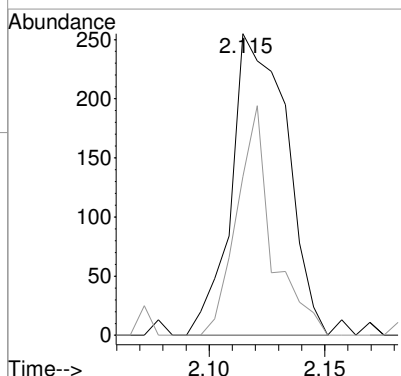
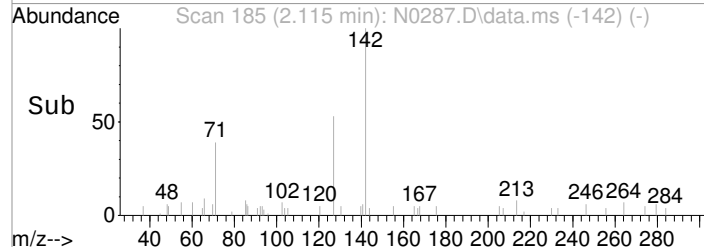
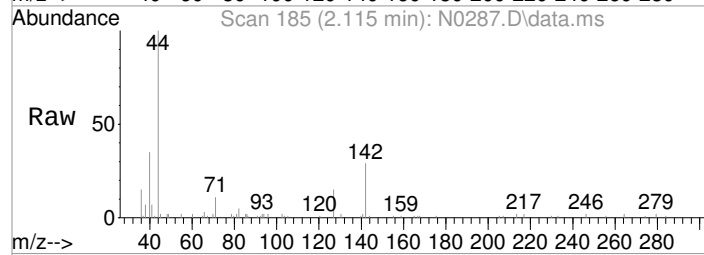
Tgt Ion: 43 Resp: 1036
 Ion Ratio Lower Upper
 43 100
 58 17.2 10.7 50.7
 42 8.1 0.0 27.6





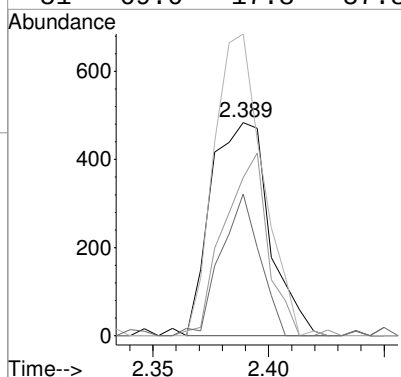
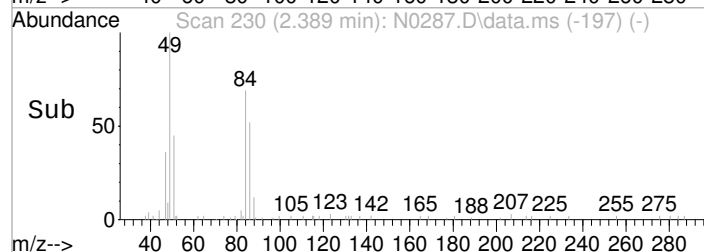
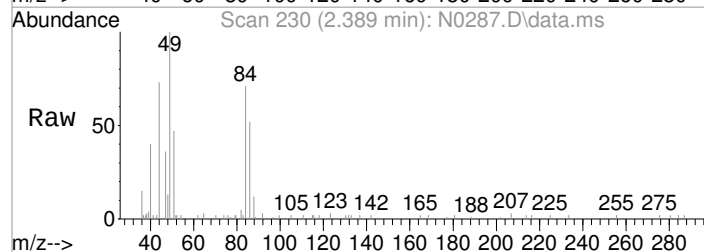
#17
 Iodomethane
 Concen: 1.12 ug/L
 RT: 2.115 min Scan# 185
 Delta R.T. 0.001 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

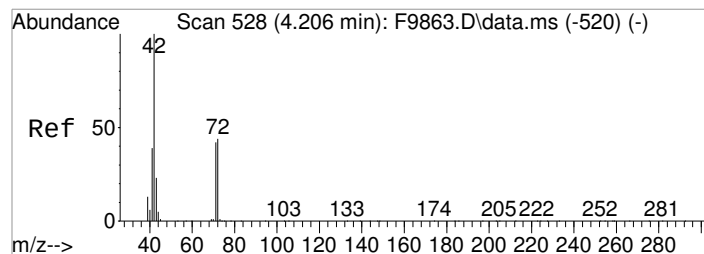
Tgt Ion: 142 Resp: 424
 Ion Ratio Lower Upper
 142 100
 127 52.5 20.6 60.6



#22
 Methylene Chloride
 Concen: 0.27 ug/L
 RT: 2.389 min Scan# 230
 Delta R.T. -0.000 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

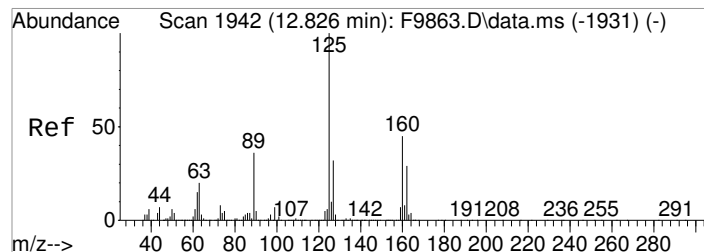
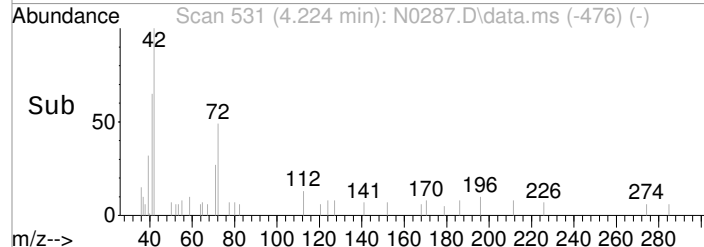
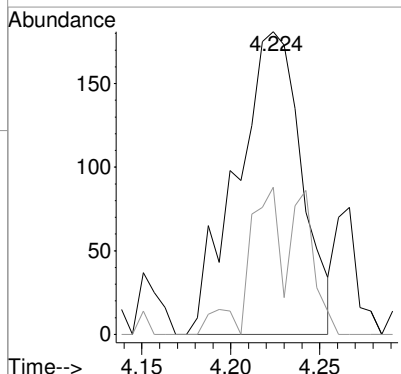
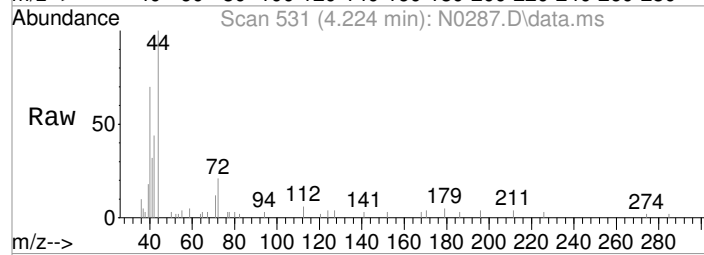
Tgt Ion: 84 Resp: 851
 Ion Ratio Lower Upper
 84 100
 86 74.2 43.0 83.0
 49 141.5 105.0 145.0
 51 69.0 17.8 57.8#





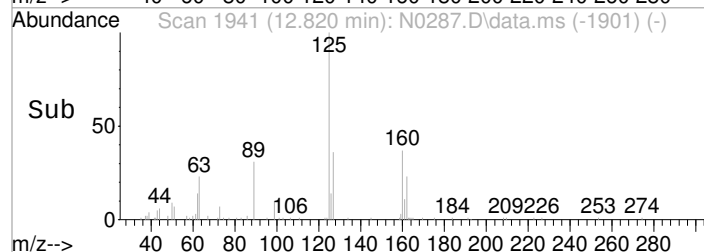
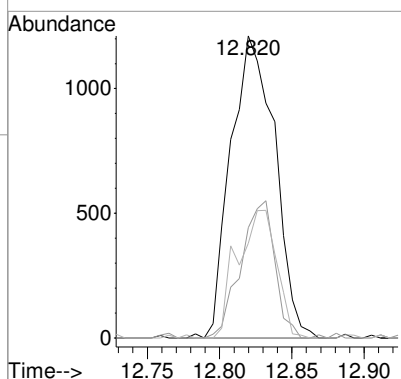
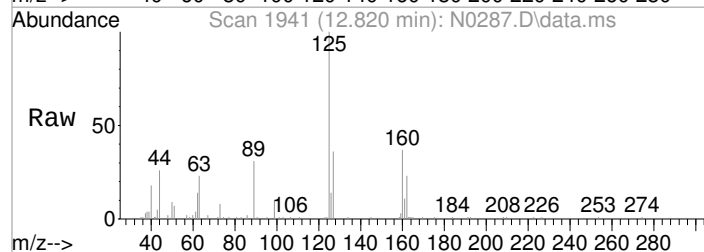
#38
 Tetrahydrofuran
 Concen: 0.32 ug/L
 RT: 4.224 min Scan# 531
 Delta R.T. 0.019 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

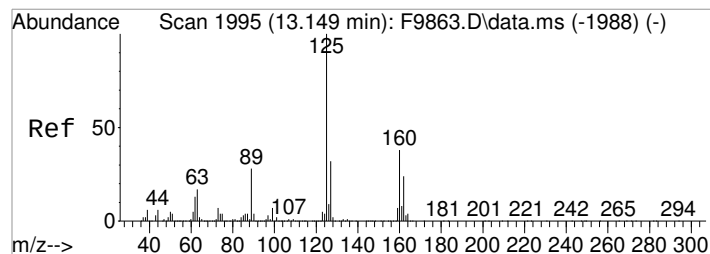
Tgt Ion: 42 Resp: 459
 Ion Ratio Lower Upper
 42 100
 72 48.6 24.4 64.4



#111
 Trilution Dichlorotoluene
 Concen: 0.50 ug/L
 RT: 12.820 min Scan# 1941
 Delta R.T. -0.006 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

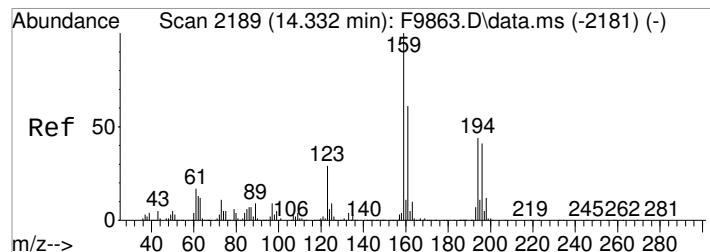
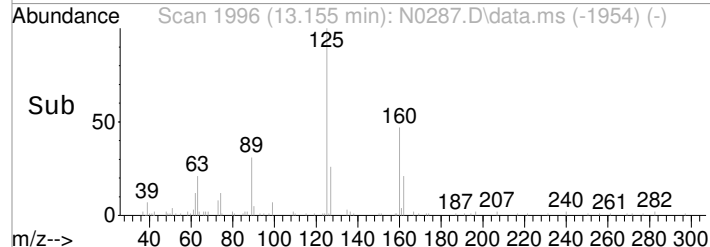
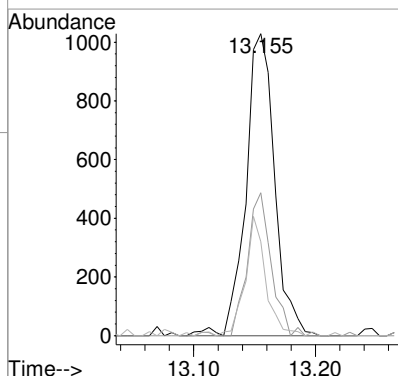
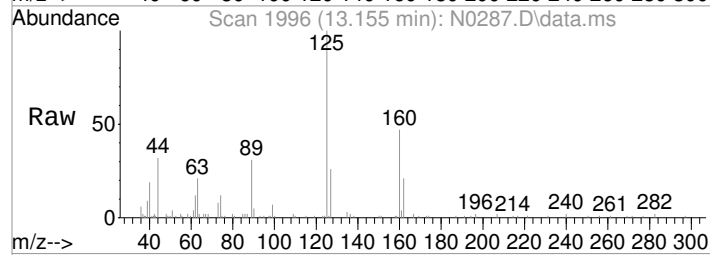
Tgt Ion: 125 Resp: 2561
 Ion Ratio Lower Upper
 125 100
 160 36.6 24.9 64.9
 89 31.4 16.0 56.0





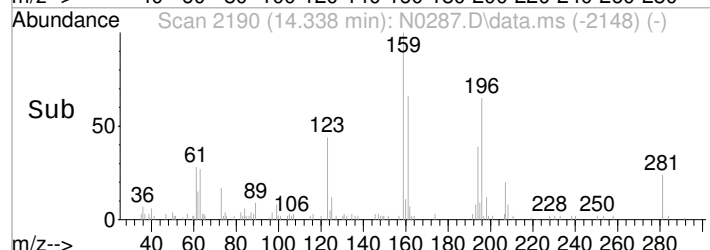
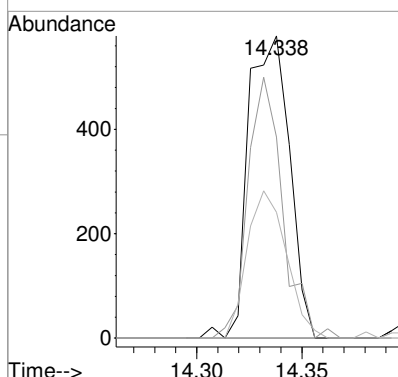
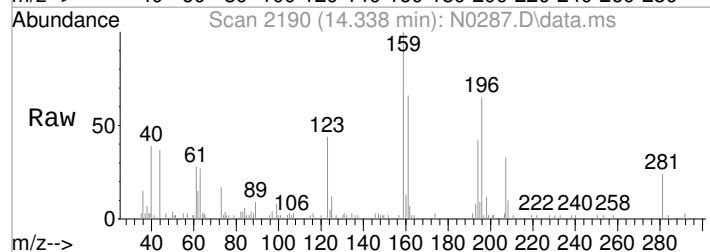
#113
 Coelution Dichlorotoluene
 Concen: 0.30 ug/L
 RT: 13.155 min Scan# 1996
 Delta R.T. 0.006 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

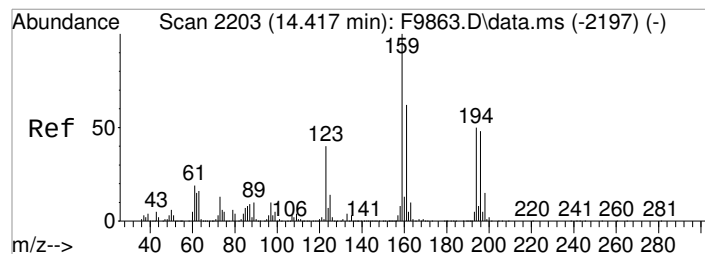
Tgt Ion	125	Resp:	1690
Ion Ratio	Lower	Upper	
125	100		
160	47.3	17.9	57.9
89	31.1	7.8	47.8



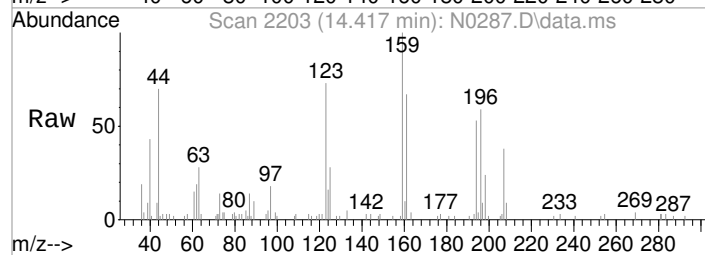
#118
 2,4,5-Trichlorotoluene
 Concen: 0.29 ug/L
 RT: 14.338 min Scan# 2190
 Delta R.T. 0.006 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm

Tgt Ion	159	Resp:	785
Ion Ratio	Lower	Upper	
159	100		
161	66.5	40.7	80.7
194	41.6	24.4	64.4

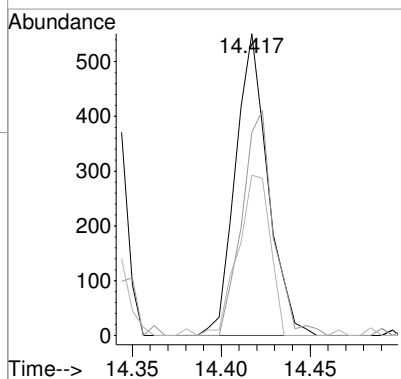
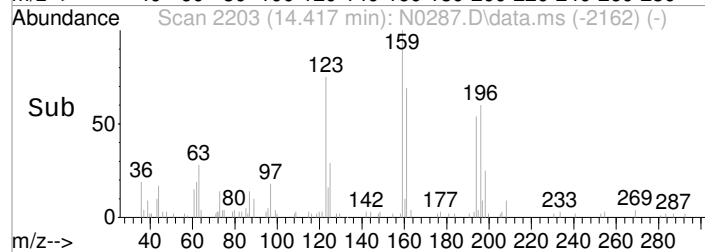




#119
 2,3,6-Trichlorotoluene
 Concen: 0.24 ug/L
 RT: 14.417 min Scan# 2203
 Delta R.T. -0.000 min
 Lab File: N0287.D
 Acq: 26 Sep 2019 2:24 pm



Tgt Ion:	159	Resp:	702
Ion Ratio	Lower	Upper	
159	100		
161	67.3	41.6	81.6
194	53.2	30.3	70.3



Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0222.D
 Acq On : 25 Sep 2019 11:57 am
 Operator : F.NAEGLER
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:21:22 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	310847	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	475422	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	406838	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	201100	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	155680	51.20	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	102.40%	
47) surr1,1,2-dichloroetha...	5.114	65	193986	54.59	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	109.18%	
64) SURR3,Toluene-d8	7.943	98	596883	50.77	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.54%	
69) SURR2,BFB	10.729	95	210010	47.28	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.56%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	78304	21.80	ug/L	98
3) Chloromethane	1.151	50	84623	20.44	ug/L	99
4) Vinyl Chloride	1.218	62	78696	18.77	ug/L	97
5) Bromomethane	1.407	94	41133	17.80	ug/L	98
6) Chloroethane	1.474	64	43058	18.18	ug/L	98
7) Freon 21	1.602	67	104333	18.85	ug/L	100
8) Trichlorofluoromethane	1.645	101	86555	18.96	ug/L	100
9) Diethyl Ether	1.846	59	59198	20.18	ug/L	96
10) Freon 123a	1.846	67	71676	19.42	ug/L	95
11) Freon 123	1.889	83	87709	20.95	ug/L	99
12) Acrolein	1.926	56	23076	25.85	ug/L	96
13) 1,1-Dicethene	2.005	96	53755	18.78	ug/L	98
14) Freon 113	2.011	101	53061	18.41	ug/L	96
15) Acetone	2.041	43	37136	20.25	ug/L	98
16) 2-Propanol	2.157	45	127492	366.50	ug/L	97
17) Iodomethane	2.115	142	50203	15.39	ug/L	96
18) Carbon Disulfide	2.169	76	144200	17.89	ug/L	100
19) Acetonitrile	2.255	41	57492	111.20	ug/L	100
20) Allyl Chloride	2.285	76	32247	20.88	ug/L	98
21) Methyl Acetate	2.310	43	70303	20.42	ug/L	95
22) Methylene Chloride	2.389	84	66555	19.68	ug/L	95
23) TBA	2.505	59	205453	370.19	ug/L	94
24) Acrylonitrile	2.602	53	181469	103.85	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	211903	20.27	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	58949	18.69	ug/L	97
27) 1,1-Dicethane	3.059	63	113900	20.09	ug/L	95
28) Vinyl Acetate	3.145	86	15716	21.54	ug/L	# 90
29) DIPE	3.181	45	218840	21.02	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.169	53	88188	20.24	ug/L	93
31) ETBE	3.633	59	183632	18.25	ug/L	98
32) 2,2-Dichloropropane	3.773	77	83936	18.12	ug/L	99
33) cis-1,2-Dichloroethene	3.779	96	68639	19.71	ug/L	93
34) 2-Butanone	3.821	43	50682	21.13	ug/L	96
35) Propionitrile	3.882	54	71520	102.68	ug/L	99
36) Bromochloromethane	4.120	130	44298	19.30	ug/L	95
37) Methacrylonitrile	4.114	67	37074	19.62	ug/L	90
38) Tetrahydrofuran	4.206	42	31750	20.53	ug/L	93
39) Chloroform	4.273	83	108821	18.87	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	87594	18.62	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0222.D
 Acq On : 25 Sep 2019 11:57 am
 Operator : F.NAEGLER
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:21:22 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	185352	18.96	ug/L	97
43) Cyclohexane	4.638	41	63134	19.73	ug/L	95
45) Carbontetrachloride	4.840	117	71237	16.94	ug/L	94
46) 1,1-Dichloropropene	4.846	75	80752	18.66	ug/L	97
48) Benzene	5.211	78	244938	19.27	ug/L	98
49) 1,2-Dichloroethane	5.254	62	91273	19.99	ug/L	97
50) Iso-Butyl Alcohol	5.254	43	89044	352.28	ug/L	96
51) n-Heptane	5.797	43	79043	19.01	ug/L	94
52) 1-Butanol	6.370	56	128347	837.09	ug/L	93
53) Trichloroethene	6.297	130	60711	16.18	ug/L	96
54) Methylcyclohexane	6.565	55	85356	19.90	ug/L	96
55) 1,2-Dicloropropane	6.601	63	67953	19.70	ug/L	99
56) Dibromomethane	6.760	93	43307	19.29	ug/L	94
57) 1,4-Dioxane	6.851	88	24564	388.53	ug/L	83
58) Methyl Methacrylate	6.888	69	58830	19.50	ug/L	100
59) Bromodichloromethane	7.022	83	75501	18.49	ug/L	99
60) 2-Nitropropane	7.333	41	31846	30.27	ug/L	93
61) 2-Chloroethylvinyl Ether	7.485	63	20125	15.02	ug/L	92
62) cis-1,3-Dichloropropene	7.626	75	94102	18.20	ug/L	99
63) 4-Methyl-2-pentanone	7.863	43	86175	20.27	ug/L	95
65) Toluene	8.022	91	256249	19.00	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	84726	17.90	ug/L	98
67) Ethyl Methacrylate	8.504	69	99863	19.28	ug/L	93
68) 1,1,2-Trichloroethane	8.528	97	64068	19.67	ug/L	96
71) Tetrachloroethene	8.668	164	48397	17.76	ug/L	99
72) 2-Hexanone	8.869	43	62400	20.07	ug/L	97
73) 1,3-Dichloropropane	8.711	76	107268	19.44	ug/L	96
74) Dibromochloromethane	8.961	129	61292	18.79	ug/L	96
75) N-Butyl Acetate	9.052	43	122285	19.79	ug/L	98
76) 1,2-Dibromoethane	9.058	107	64720	19.27	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	87189	18.08	ug/L	98
78) Chlorobenzene	9.607	112	167563	18.83	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	78824	18.06	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.704	131	57489	18.25	ug/L	100
81) Ethylbenzene	9.747	106	85617	18.46	ug/L	99
82) (m+p)Xylene	9.869	106	212731	37.58	ug/L	99
83) o-Xylene	10.247	106	103728	18.78	ug/L	96
84) Styrene	10.259	104	172851	18.52	ug/L	97
85) Bromoform	10.412	173	38739	16.61	ug/L	94
86) 2-Chlorobenzotrifluoride	10.515	180	82805	17.73	ug/L	98
87) Isopropylbenzene	10.607	105	262390	18.15	ug/L	99
88) Cyclohexanone	10.656	55	255002	358.70	ug/L	91
89) trans-1,4-Dichloro-2-B...	10.930	53	22038	20.25	ug/L	83
91) 1,1,2,2-Tetrachloroethane	10.881	83	92994	23.69	ug/L	99
92) Bromobenzene	10.845	156	68347	18.81	ug/L	97
93) 1,2,3-Trichloropropane	10.905	110	27581	19.22	ug/L	95
94) n-Propylbenzene	10.979	91	300561	19.72	ug/L	98
95) 2-Chlorotoluene	11.034	91	185973	19.89	ug/L	97
96) 3-Chlorotoluene	11.088	91	183602	19.10	ug/L	97
97) 4-Chlorotoluene	11.131	91	206482	19.41	ug/L	96
98) 1,3,5-Trimethylbenzene	11.143	105	209528	18.69	ug/L	99
99) tert-Butylbenzene	11.418	119	174417	17.90	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	208950	18.85	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.533	214	63957	18.57	ug/L	99
102) sec-Butylbenzene	11.607	105	258022	18.63	ug/L	99
103) p-Isopropyltoluene	11.735	119	212042	17.80	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0222.D
Acq On : 25 Sep 2019 11:57 am
Operator : F.NAEGLER
Sample : LCS-UNP
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:21:22 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	125356	18.90	ug/L	98
105) 1,4-Dclbenz	11.759	146	128350	19.04	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	56250	17.97	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	64809	18.47	ug/L	93
108) n-Butylbenzene	12.076	91	195726	18.94	ug/L	99
109) 1,2-Dclbenz	12.064	146	124819	19.34	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.698	157	17689	16.99	ug/L	92
111) Trielution Dichlorotol...	12.826	125	308212	56.00	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	91527	19.47	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	227251	37.89	ug/L	98
114) 1,2,4-Tcbenzene	13.362	180	89278	19.09	ug/L	98
115) Hexachlorobt	13.509	225	37478	17.54	ug/L	98
116) Naphthalen	13.551	128	272939	20.14	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	87432	19.16	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	60182	20.86	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	55418	18.17	ug/L	97

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

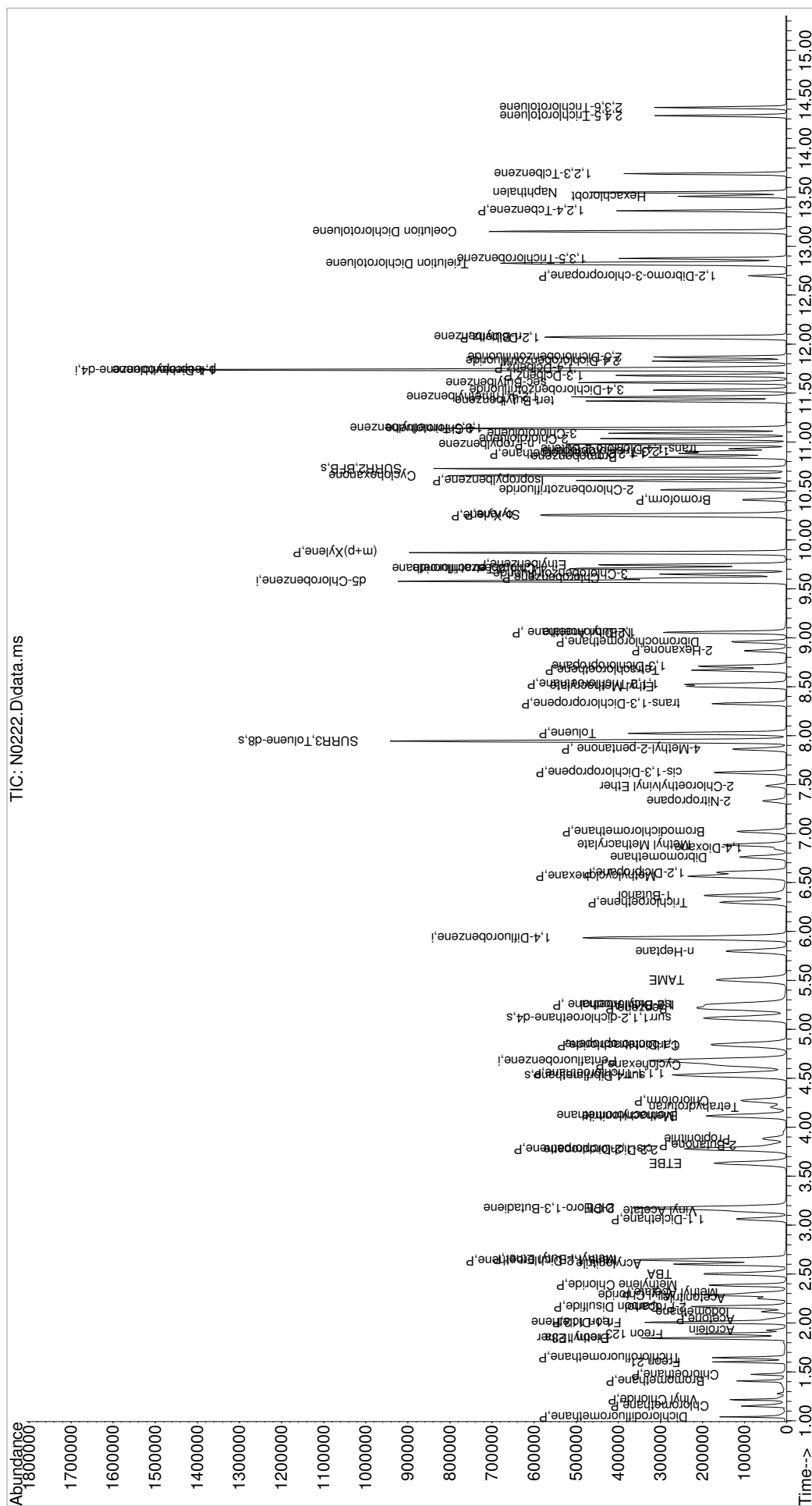
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSVOA14\Data\092519\
Data File	:	N0222.D
Acq On	:	25 Sep 2019 11:57 am
Operator	:	F.NAEGLER
Sample	:	LCS-UNP
Misc	:	
ALS Vial	:	2 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 12:21:22 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0285.D
 Acq On : 26 Sep 2019 1:28 pm
 Operator : F.NAEGLER
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:42:43 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.681	168	309050	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	463991	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	398132	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	200588	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	151075	50.91	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	101.82%		
47) surr1,1,2-dichloroetha...	5.114	65	186700	53.83	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	107.66%		
64) SURR3,Toluene-d8	7.943	98	573624	49.99	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	99.98%		
69) SURR2,BFB	10.729	95	205965	47.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	95.02%		
Target Compounds						Qvalue

2) Dichlorodifluoromethane	1.042	85	65868	18.45	ug/L	99
3) Chloromethane	1.152	50	82361	20.01	ug/L	99
4) Vinyl Chloride	1.219	62	68881	16.53	ug/L	99
5) Bromomethane	1.408	94	37978	16.40	ug/L	97
6) Chloroethane	1.475	64	39102	16.61	ug/L	98
7) Freon 21	1.603	67	104383	18.96	ug/L	98
8) Trichlorofluoromethane	1.645	101	74075	16.32	ug/L	95
9) Diethyl Ether	1.847	59	58095	19.92	ug/L	99
10) Freon 123a	1.847	67	70494	19.21	ug/L	93
11) Freon 123	1.889	83	85837	20.62	ug/L	97
12) Acrolein	1.926	56	23997	27.04	ug/L	97
13) 1,1-Dicethene	2.005	96	46589	16.37	ug/L	99
14) Freon 113	2.011	101	44986	15.70	ug/L	96
15) Acetone	2.042	43	35583	19.52	ug/L	96
16) 2-Propanol	2.157	45	116728	337.51	ug/L	95
17) Iodomethane	2.115	142	53970	16.54	ug/L	94
18) Carbon Disulfide	2.170	76	142311	17.76	ug/L	99
19) Acetonitrile	2.249	41	58221	113.26	ug/L	98
20) Allyl Chloride	2.285	76	29482	19.20	ug/L	# 88
21) Methyl Acetate	2.310	43	66793	19.51	ug/L	97
22) Methylene Chloride	2.389	84	63496	18.89	ug/L	98
23) TBA	2.499	59	196660	356.41	ug/L	92
24) Acrylonitrile	2.596	53	177576	102.21	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	209704	20.18	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	54144	17.26	ug/L	98
27) 1,1-Dicethane	3.060	63	104824	18.60	ug/L	97
28) Vinyl Acetate	3.145	86	16980	23.41	ug/L	98
29) DIPE	3.176	45	209996	20.28	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.169	53	83504	19.28	ug/L	98
31) ETBE	3.633	59	179550	17.95	ug/L	95
32) 2,2-Dichloropropane	3.773	77	74712	16.22	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	64614	18.66	ug/L	94
34) 2-Butanone	3.822	43	50972	21.38	ug/L	98
35) Propionitrile	3.883	54	71667	103.49	ug/L	96
36) Bromochloromethane	4.114	130	43878	19.22	ug/L	# 86
37) Methacrylonitrile	4.114	67	36164	19.25	ug/L	94
38) Tetrahydrofuran	4.206	42	31420	20.44	ug/L	93
39) Chloroform	4.273	83	102001	17.79	ug/L	98
40) 1,1,1-Trichloroethane	4.547	97	77983	16.67	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0285.D
 Acq On : 26 Sep 2019 1:28 pm
 Operator : F.NAEGLER
 Sample : LCS-UNP
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:42:43 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	181756	18.70	ug/L	94
43) Cyclohexane	4.633	41	62872	20.13	ug/L	100
45) Carbontetrachloride	4.834	117	62123	15.14	ug/L	96
46) 1,1-Dichloropropene	4.846	75	70055	16.59	ug/L	94
48) Benzene	5.212	78	225047	18.14	ug/L	98
49) 1,2-Dichloroethane	5.248	62	88204	19.80	ug/L	97
50) Iso-Butyl Alcohol	5.248	43	85352	345.99	ug/L	100
51) n-Heptane	5.797	43	69585	17.15	ug/L	95
52) 1-Butanol	6.364	56	120112	802.68	ug/L	98
53) Trichloroethene	6.297	130	55193	15.07	ug/L	96
54) Methylcyclohexane	6.565	55	86393	20.64	ug/L	93
55) 1,2-Dichloropropane	6.608	63	65864	19.57	ug/L	100
56) Dibromomethane	6.760	93	42821	19.54	ug/L	98
57) 1,4-Dioxane	6.846	88	22237	360.39	ug/L	96
58) Methyl Methacrylate	6.888	69	58373	19.82	ug/L	89
59) Bromodichloromethane	7.016	83	75913	19.05	ug/L	98
60) 2-Nitropropane	7.333	41	32858	32.00	ug/L	97
61) 2-Chloroethylvinyl Ether	7.486	63	23753	18.16	ug/L	94
62) cis-1,3-Dichloropropene	7.620	75	93836	18.60	ug/L	98
63) 4-Methyl-2-pentanone	7.858	43	89627	21.61	ug/L	94
65) Toluene	8.022	91	236200	17.95	ug/L	97
66) trans-1,3-Dichloropropene	8.327	75	85825	18.58	ug/L	98
67) Ethyl Methacrylate	8.498	69	101035	19.99	ug/L	96
68) 1,1,2-Trichloroethane	8.522	97	64591	20.32	ug/L	97
71) Tetrachloroethene	8.668	164	42437	15.92	ug/L	97
72) 2-Hexanone	8.863	43	65448	21.51	ug/L	95
73) 1,3-Dichloropropane	8.711	76	108252	20.05	ug/L	97
74) Dibromochloromethane	8.961	129	61161	19.16	ug/L	97
75) N-Butyl Acetate	9.052	43	121802	20.14	ug/L	99
76) 1,2-Dibromoethane	9.059	107	66093	20.10	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	80704	17.10	ug/L	98
78) Chlorobenzene	9.607	112	156565	17.98	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	72645	17.01	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	54494	17.68	ug/L	97
81) Ethylbenzene	9.747	106	78766	17.35	ug/L	99
82) (m+p)Xylene	9.869	106	197479	35.65	ug/L	100
83) o-Xylene	10.247	106	98330	18.19	ug/L	98
84) Styrene	10.259	104	168951	18.50	ug/L	99
85) Bromoform	10.412	173	39662	17.37	ug/L	100
86) 2-Chlorobenzotrifluoride	10.516	180	78831	17.25	ug/L	98
87) Isopropylbenzene	10.607	105	237274	16.77	ug/L	99
88) Cyclohexanone	10.656	55	238788	343.23	ug/L	96
89) trans-1,4-Dichloro-2-B...	10.930	53	21375	20.07	ug/L	87
91) 1,1,2,2-Tetrachloroethane	10.881	83	93434	23.86	ug/L	98
92) Bromobenzene	10.845	156	67163	18.53	ug/L	97
93) 1,2,3-Trichloropropane	10.900	110	27360	19.11	ug/L	93
94) n-Propylbenzene	10.979	91	277926	18.28	ug/L	99
95) 2-Chlorotoluene	11.034	91	174519	18.71	ug/L	98
96) 3-Chlorotoluene	11.089	91	181034	18.88	ug/L	96
97) 4-Chlorotoluene	11.131	91	199630	18.81	ug/L	98
98) 1,3,5-Trimethylbenzene	11.137	105	194915	17.43	ug/L	96
99) tert-Butylbenzene	11.418	119	162458	16.72	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	201299	18.20	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	62364	18.15	ug/L	98
102) sec-Butylbenzene	11.607	105	237336	17.18	ug/L	99
103) p-Isopropyltoluene	11.735	119	201064	16.92	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
Data File : N0285.D
Acq On : 26 Sep 2019 1:28 pm
Operator : F.NAEGLER
Sample : LCS-UNP
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:42:43 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	127571	19.28	ug/L	98
105) 1,4-Dclbenz	11.759	146	128986	19.18	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	55899	17.90	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	63797	18.23	ug/L	100
108) n-Butylbenzene	12.076	91	186607	18.11	ug/L	100
109) 1,2-Dclbenz	12.064	146	126884	19.71	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	18492	17.81	ug/L	93
111) Trielution Dichlorotol...	12.826	125	315666	57.50	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	91818	19.58	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	233570	39.05	ug/L	96
114) 1,2,4-Tcbenzene	13.363	180	93910	20.13	ug/L	99
115) Hexachlorobt	13.509	225	36646	17.20	ug/L	98
116) Naphthalen	13.552	128	285788	21.15	ug/L	100
117) 1,2,3-Tclbenzene	13.741	180	93407	20.52	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	64357	22.36	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	59884	19.68	ug/L	99

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

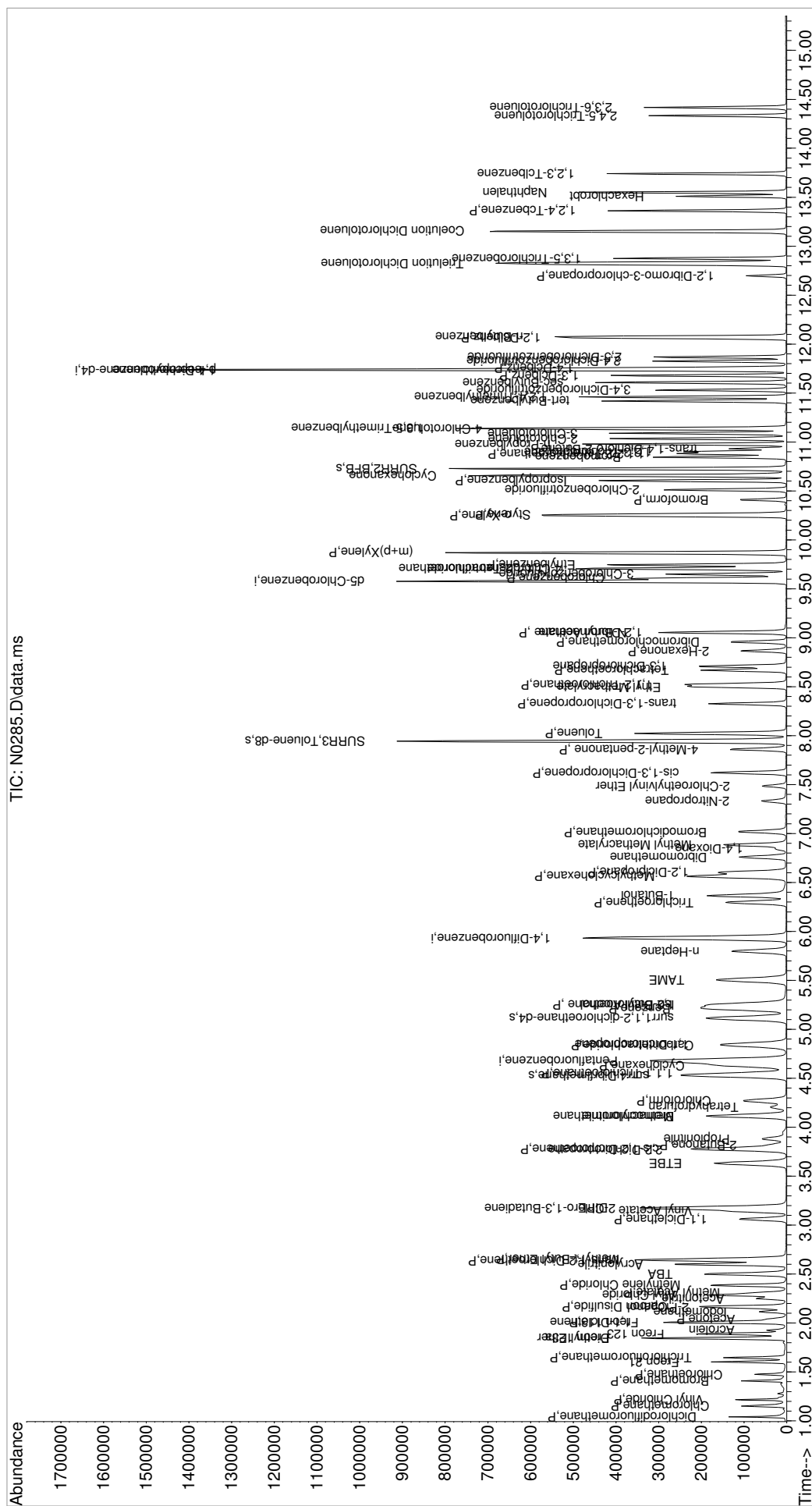
Quantitation Report (QT Reviewed)

Data Path	:	:	I:\ACQUDATA\MSV0A14\Data\092619\
Data File	:	:	N0285.D
Acq On	:	:	26 Sep 2019 1:28 pm
Operator	:	:	F.NAEGLER
Sample	:	:	LCS-UNP
Misc	:	:	
ALS Vial	:	:	2 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 13:42:43 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0245.D
 Acq On : 25 Sep 2019 9:06 pm
 Operator : F.NAEGLER
 Sample : R1909228-002MS|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 07:42:48 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	275010	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	413989	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	362154	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	188375	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	134690	50.87	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	101.74%	
47) surr1,1,2-dichloroetha...	5.114	65	170534	55.11	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.22%	
64) SURR3,Toluene-d8	7.943	98	519552	50.75	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.50%	
69) SURR2,BFB	10.729	95	188594	48.76	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.52%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	181429	57.11	ug/L	99
3) Chloromethane	1.151	50	73411	20.04	ug/L	97
4) Vinyl Chloride	1.218	62	194720	52.51	ug/L	100
5) Bromomethane	1.413	94	2316	0.89	ug/L #	77
6) Chloroethane	1.474	64	167371	79.89	ug/L	98
7) Freon 21	1.602	67	231729	47.31	ug/L	100
8) Trichlorofluoromethane	1.645	101	203633	50.42	ug/L	97
9) Diethyl Ether	1.846	59	129537	49.92	ug/L	97
10) Freon 123a	1.846	67	166728	51.05	ug/L	95
11) Freon 123	1.889	83	188332	50.85	ug/L	99
12) Acrolein	1.926	56	13236	16.76	ug/L	97
13) 1,1-Dicethene	2.005	96	130650	51.60	ug/L	99
14) Freon 113	2.011	101	122644	48.10	ug/L	97
15) Acetone	2.041	43	106895	65.89	ug/L	99
16) 2-Propanol	2.163	45	331132	1075.95	ug/L	95
17) Iodomethane	2.127	142	2017	1.66	ug/L	87
18) Carbon Disulfide	2.169	76	325706	45.67	ug/L	99
19) Acetonitrile	2.255	41	168294	367.92	ug/L	97
20) Allyl Chloride	2.291	76	678	0.50	ug/L #	1
21) Methyl Acetate	2.310	43	162934	53.48	ug/L	99
22) Methylene Chloride	2.389	84	146858	49.09	ug/L	99
23) TBA	2.505	59	538405	1096.52	ug/L	92
24) Acrylonitrile	2.602	53	414392	268.05	ug/L	100
25) Methyl-t-Butyl Ether	2.651	73	463464	50.12	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	136296	48.84	ug/L	96
27) 1,1-Dicethane	3.066	63	417852	83.31	ug/L	99
28) Vinyl Acetate	3.145	86	31778	49.24	ug/L	96
29) DIPE	3.181	45	478979	51.99	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.169	53	136035	35.30	ug/L	96
31) ETBE	3.633	59	403526	45.33	ug/L	99
32) 2,2-Dichloropropane	3.779	77	156587	38.21	ug/L	93
33) cis-1,2-Dichloroethene	3.779	96	356747	115.79	ug/L	99
34) 2-Butanone	3.822	43	125364	59.09	ug/L	99
35) Propionitrile	3.883	54	173713	281.90	ug/L	99
36) Bromochloromethane	4.114	130	94556	46.56	ug/L	89
37) Methacrylonitrile	4.120	67	84993	50.83	ug/L	96
38) Tetrahydrofuran	4.206	42	76551	55.96	ug/L	95
39) Chloroform	4.273	83	246824	48.39	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	234002	56.22	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0245.D
 Acq On : 25 Sep 2019 9:06 pm
 Operator : F.NAEGLER
 Sample : R1909228-002MS|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 07:42:48 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	409626	47.36	ug/L	97
43) Cyclohexane	4.638	41	137571	49.37	ug/L	98
45) Carbontetrachloride	4.840	117	168980	46.14	ug/L	94
46) 1,1-Dichloropropene	4.846	75	190781	50.63	ug/L	99
48) Benzene	5.218	78	565539	51.08	ug/L	97
49) 1,2-Dichloroethane	5.254	62	199504	50.18	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	247131	1122.79	ug/L	96
51) n-Heptane	5.797	43	157112	43.39	ug/L	95
52) 1-Butanol	6.370	56	370173	2772.55	ug/L	95
53) Trichloroethene	6.297	130	243227	74.45	ug/L	95
54) Methylcyclohexane	6.565	55	175682	47.03	ug/L	92
55) 1,2-Dicloropropane	6.608	63	152380	50.74	ug/L	99
56) Dibromomethane	6.760	93	92516	47.32	ug/L	98
57) 1,4-Dioxane	6.845	88	62487	1135.03	ug/L	93
58) Methyl Methacrylate	6.888	69	136892	52.10	ug/L	92
59) Bromodichloromethane	7.022	83	175702	49.41	ug/L	99
60) 2-Nitropropane	7.333	41	78436	85.61	ug/L	100
61) 2-Chloroethylvinyl Ether	7.485	63	60122	51.53	ug/L	100
63) 4-Methyl-2-pentanone	7.863	43	224460	60.64	ug/L	96
65) Toluene	8.022	91	588508	50.11	ug/L	98
67) Ethyl Methacrylate	8.504	69	229094	50.80	ug/L	93
68) 1,1,2-Trichloroethane	8.528	97	140400	49.51	ug/L	97
71) Tetrachloroethene	8.668	164	110449	45.54	ug/L	97
72) 2-Hexanone	8.869	43	169737	61.34	ug/L	98
73) 1,3-Dichloropropane	8.711	76	234155	47.67	ug/L	96
74) Dibromochloromethane	8.961	129	133832	46.09	ug/L	96
75) N-Butyl Acetate	9.052	43	309328	56.24	ug/L	97
76) 1,2-Dibromoethane	9.058	107	128873	43.10	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	180787	42.12	ug/L	97
78) Chlorobenzene	9.607	112	376877	47.57	ug/L	97
79) 4-Chlorobenzotrifluoride	9.711	180	161900	41.67	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.705	131	131909	47.05	ug/L	96
81) Ethylbenzene	9.747	106	204196	49.46	ug/L	94
82) (m+p)Xylene	9.869	106	498847	99.00	ug/L	99
83) o-Xylene	10.247	106	244182	49.66	ug/L	95
84) Styrene	10.259	104	396860	47.77	ug/L	99
85) Bromoform	10.412	173	90787	43.72	ug/L	96
86) 2-Chlorobenzotrifluoride	10.515	180	183275	44.09	ug/L	98
87) Isopropylbenzene	10.607	105	627530	48.76	ug/L	100
88) Cyclohexanone	10.656	55	765924	1210.31	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.979	53	3541	3.65	ug/L #	1
91) 1,1,2,2-Tetrachloroethane	10.881	83	209960	57.10	ug/L	99
92) Bromobenzene	10.845	156	156307	45.92	ug/L	95
93) 1,2,3-Trichloropropane	10.899	110	65603	48.80	ug/L	95
94) n-Propylbenzene	10.979	91	731314	51.22	ug/L	97
95) 2-Chlorotoluene	11.034	91	438359	50.04	ug/L	99
96) 3-Chlorotoluene	11.088	91	423095	46.99	ug/L	97
97) 4-Chlorotoluene	11.131	91	487021	48.87	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	503319	47.93	ug/L	99
99) tert-Butylbenzene	11.418	119	433385	47.49	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	501821	48.32	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.533	214	132584	41.10	ug/L	98
102) sec-Butylbenzene	11.607	105	634304	48.89	ug/L	99
103) p-Isopropyltoluene	11.735	119	521557	46.73	ug/L	97
104) 1,3-Dclbenz	11.680	146	290755	46.79	ug/L	99
105) 1,4-Dclbenz	11.759	146	290417	45.99	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0245.D
Acq On : 25 Sep 2019 9:06 pm
Operator : F.NAEGLER
Sample : R1909228-002MS|1.0
Misc : VERINA 7979 T4
ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 07:42:48 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 2,4-Dichlorobenzotrifl...	11.826	214	118180	40.30	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	138630	42.17	ug/L	98
108) n-Butylbenzene	12.076	91	468668	48.42	ug/L	98
109) 1,2-Dclbenz	12.064	146	288684	47.75	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	46541	47.73	ug/L	91
111) Trielution Dichlorotol...	12.826	125	695756	134.96	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	196806	44.70	ug/L	99
113) Coelution Dichlorotoluene	13.149	125	515473	91.76	ug/L	98
114) 1,2,4-Tcbenzene	13.362	180	204072	46.58	ug/L	99
115) Hexachlorobt	13.509	225	82244	41.10	ug/L	99
116) Naphthalen	13.551	128	670231	52.81	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	201992	47.25	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	129778	48.02	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	121146	42.40	ug/L	98

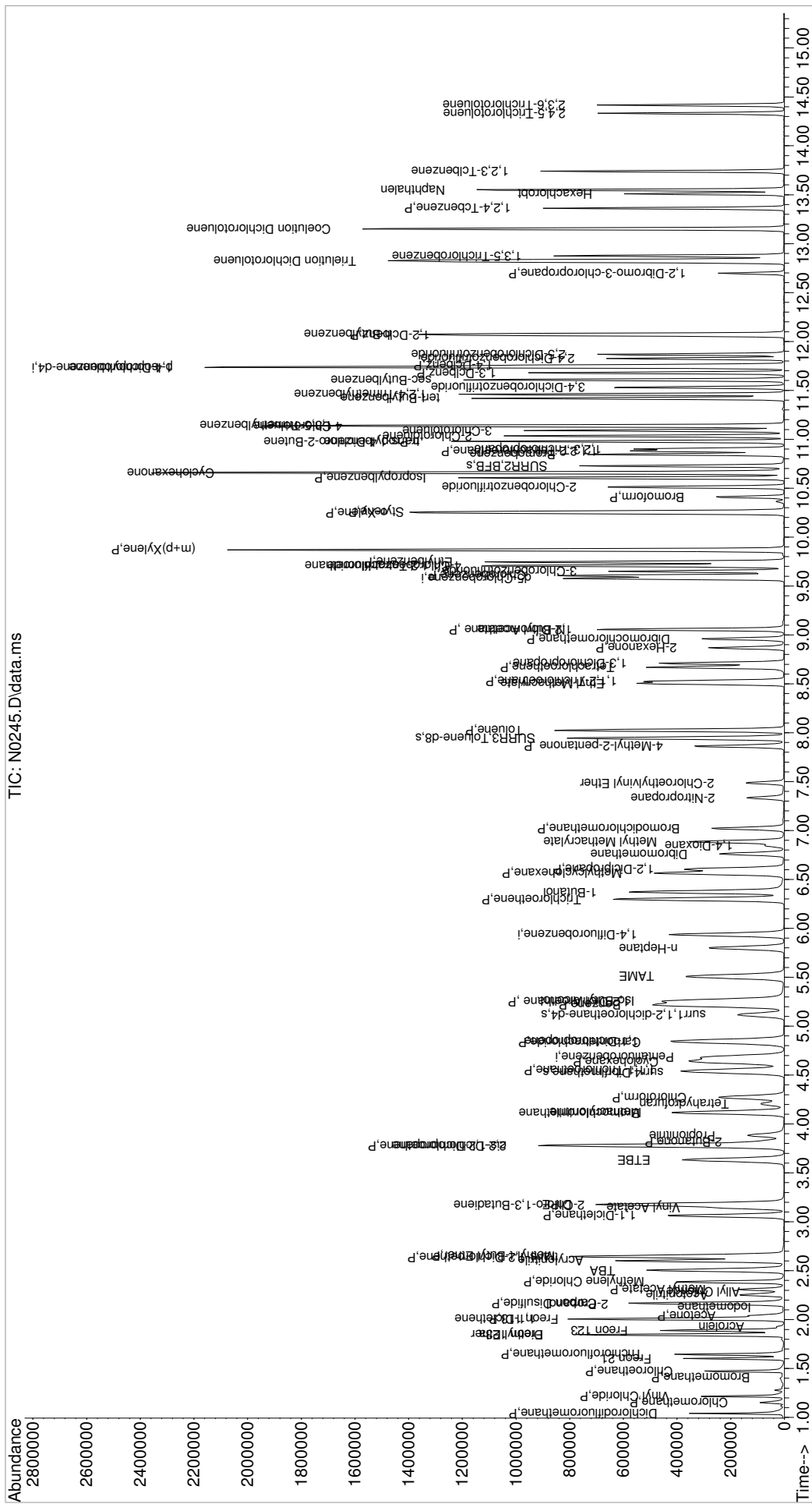
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\092519\
Data File	:	N0245.D
Acq On	:	25 Sep 2019 9:06 pm
Operator	:	F.NAEGLER
Sample	:	R1909228-002MS 1.0
Misc	:	VERINA 7979 T4
ALS Vial	:	25 Sample Multiplier: 1

Inst : MSV0A14

Quant Time: Sep 26 07:42:48 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0246.D
 Acq On : 25 Sep 2019 9:28 pm
 Operator : F.NAEGLER
 Sample : R1909228-002DMS|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 07:43:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	285348	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	427952	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	367605	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	189121	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	142561	52.09	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	104.18%	
47) surr1,1,2-dichloroetha...	5.114	65	177316	55.43	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.86%	
64) SURR3,Toluene-d8	7.943	98	539042	50.93	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.86%	
69) SURR2,BFB	10.729	95	190545	47.66	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.32%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	145588	44.16	ug/L	98
3) Chloromethane	1.151	50	40276	10.60	ug/L	97
4) Vinyl Chloride	1.212	62	153882	39.99	ug/L	100
5) Bromomethane	1.413	94	1222	0.37	ug/L	94
6) Chloroethane	1.474	64	144772	66.60	ug/L	99
7) Freon 21	1.602	67	199487	39.25	ug/L	99
8) Trichlorofluoromethane	1.645	101	162471	38.77	ug/L	96
9) Diethyl Ether	1.846	59	101968	37.87	ug/L	99
10) Freon 123a	1.846	67	143492	42.34	ug/L	98
11) Freon 123	1.889	83	163464	42.54	ug/L	99
12) Acrolein	1.926	56	10809	13.19	ug/L	96
13) 1,1-Dicethene	2.005	96	101619	38.68	ug/L	96
14) Freon 113	2.011	101	104152	39.37	ug/L	100
15) Acetone	2.041	43	85299	50.68	ug/L	99
16) 2-Propanol	2.163	45	296000	926.95	ug/L	96
17) Iodomethane	2.133	142	1261	1.39	ug/L	94
18) Carbon Disulfide	2.169	76	268325	36.26	ug/L	100
19) Acetonitrile	2.255	41	137839	290.43	ug/L	97
21) Methyl Acetate	2.310	43	140847	44.56	ug/L	96
22) Methylene Chloride	2.389	84	117066	37.71	ug/L	97
23) TBA	2.505	59	437539	858.81	ug/L	91
24) Acrylonitrile	2.602	53	334651	208.63	ug/L	97
25) Methyl-t-Butyl Ether	2.651	73	363130	37.85	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	111508	38.51	ug/L	94
27) 1,1-Dicethane	3.066	63	369999	71.09	ug/L	100
28) Vinyl Acetate	3.145	86	24957	37.27	ug/L #	77
29) DIPE	3.181	45	312283	32.67	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.169	53	111718	27.94	ug/L	94
31) ETBE	3.633	59	259781	28.13	ug/L	97
32) 2,2-Dichloropropane	3.779	77	123478	29.04	ug/L	92
33) cis-1,2-Dichloroethene	3.779	96	330107	103.26	ug/L	98
34) 2-Butanone	3.822	43	99209	45.06	ug/L	99
35) Propionitrile	3.882	54	140384	219.56	ug/L	100
36) Bromochloromethane	4.120	130	74621	35.41	ug/L	95
37) Methacrylonitrile	4.120	67	67484	38.90	ug/L	94
38) Tetrahydrofuran	4.206	42	60399	42.55	ug/L	93
39) Chloroform	4.273	83	196668	37.16	ug/L	95
40) 1,1,1-Trichloroethane	4.547	97	194694	45.08	ug/L	98
41) TAME	5.510	73	264952	29.53	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0246.D
 Acq On : 25 Sep 2019 9:28 pm
 Operator : F.NAEGLER
 Sample : R1909228-002DMS|1.0
 Misc : VERINA 7979 T4
 ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 07:43:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Cyclohexane	4.638	41	119900	41.62	ug/L	99
45) Carbontetrachloride	4.840	117	139929	36.96	ug/L	99
46) 1,1-Dichloropropene	4.846	75	156373	40.15	ug/L	98
48) Benzene	5.218	78	457133	39.95	ug/L	97
49) 1,2-Dichloroethane	5.254	62	160714	39.11	ug/L	96
50) Iso-Butyl Alcohol	5.260	43	196865	865.24	ug/L	95
51) n-Heptane	5.797	43	144554	38.62	ug/L	93
52) 1-Butanol	6.370	56	245125	1776.05	ug/L	96
53) Trichloroethene	6.297	130	219208	64.91	ug/L	98
54) Methylcyclohexane	6.565	55	156973	40.65	ug/L	96
55) 1,2-Dichloropropane	6.608	63	120572	38.84	ug/L	97
56) Dibromomethane	6.760	93	74205	36.72	ug/L	95
57) 1,4-Dioxane	6.845	88	49724	873.73	ug/L	96
58) Methyl Methacrylate	6.888	69	107158	39.45	ug/L	94
59) Bromodichloromethane	7.022	83	141601	38.52	ug/L	99
60) 2-Nitropropane	7.333	41	61194	64.61	ug/L	97
61) 2-Chloroethylvinyl Ether	7.485	63	47223	39.15	ug/L	98
63) 4-Methyl-2-pentanone	7.863	43	172322	45.04	ug/L	95
65) Toluene	8.022	91	481309	39.65	ug/L	99
67) Ethyl Methacrylate	8.504	69	175340	37.61	ug/L	94
68) 1,1,2-Trichloroethane	8.522	97	112151	38.26	ug/L	98
71) Tetrachloroethene	8.668	164	94402	38.35	ug/L	97
72) 2-Hexanone	8.869	43	134170	47.76	ug/L	98
73) 1,3-Dichloropropane	8.711	76	186646	37.43	ug/L	97
74) Dibromochloromethane	8.961	129	108418	36.78	ug/L	97
75) N-Butyl Acetate	9.052	43	269425	48.26	ug/L	98
76) 1,2-Dibromoethane	9.058	107	97216	32.03	ug/L	100
77) 3-Chlorobenzotrifluoride	9.650	180	121659	27.92	ug/L	99
78) Chlorobenzene	9.607	112	308489	38.36	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	110353	27.98	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.705	131	105181	36.96	ug/L	98
81) Ethylbenzene	9.747	106	166982	39.85	ug/L	93
82) (m+p)Xylene	9.869	106	407577	79.69	ug/L	97
83) o-Xylene	10.247	106	198829	39.84	ug/L	93
84) Styrene	10.265	104	299966	35.57	ug/L	97
85) Bromoform	10.412	173	72898	34.58	ug/L	98
86) 2-Chlorobenzotrifluoride	10.515	180	121041	28.69	ug/L	97
87) Isopropylbenzene	10.607	105	514771	39.41	ug/L	100
88) Cyclohexanone	10.656	55	591443	920.74	ug/L	95
89) trans-1,4-Dichloro-2-B...	10.979	53	2902	2.95	ug/L #	1
91) 1,1,2,2-Tetrachloroethane	10.881	83	166317	45.05	ug/L	99
92) Bromobenzene	10.845	156	126193	36.93	ug/L	95
93) 1,2,3-Trichloropropane	10.899	110	51651	38.27	ug/L	92
94) n-Propylbenzene	10.979	91	603481	42.10	ug/L	97
95) 2-Chlorotoluene	11.034	91	355698	40.44	ug/L	98
96) 3-Chlorotoluene	11.088	91	273759	30.28	ug/L	96
97) 4-Chlorotoluene	11.131	91	400274	40.00	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	407474	38.65	ug/L	98
99) tert-Butylbenzene	11.418	119	348019	37.99	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	407701	39.10	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.533	214	90536	27.95	ug/L	98
102) sec-Butylbenzene	11.607	105	511022	39.24	ug/L	100
103) p-Isopropyltoluene	11.741	119	424113	37.85	ug/L	99
104) 1,3-Dichlorobenz	11.680	146	238379	38.21	ug/L	98
105) 1,4-Dichlorobenz	11.759	146	239966	37.85	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	82779	28.12	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0246.D
Acq On : 25 Sep 2019 9:28 pm
Operator : F.NAEGLER
Sample : R1909228-002DMS|1.0
Misc : VERINA 7979 T4
ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 07:43:16 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,5-Dichlorobenzotrifl...	11.869	214	90680	27.48	ug/L	98
108) n-Butylbenzene	12.076	91	384026	39.52	ug/L	99
109) 1,2-Dclbenz	12.064	146	234401	38.61	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.698	157	37548	38.35	ug/L	93
111) Trielution Dichlorotol...	12.826	125	449759	86.90	ug/L	97
112) 1,3,5-Trichlorobenzene	12.875	180	127441	28.83	ug/L	97
113) Coelution Dichlorotoluene	13.149	125	334561	59.32	ug/L	99
114) 1,2,4-Tcbenzene	13.362	180	167754	38.14	ug/L	99
115) Hexachlorobt	13.509	225	70405	35.04	ug/L	97
116) Naphthalen	13.551	128	545240	42.79	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	165534	38.57	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	88108	32.47	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	80802	28.17	ug/L	97

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

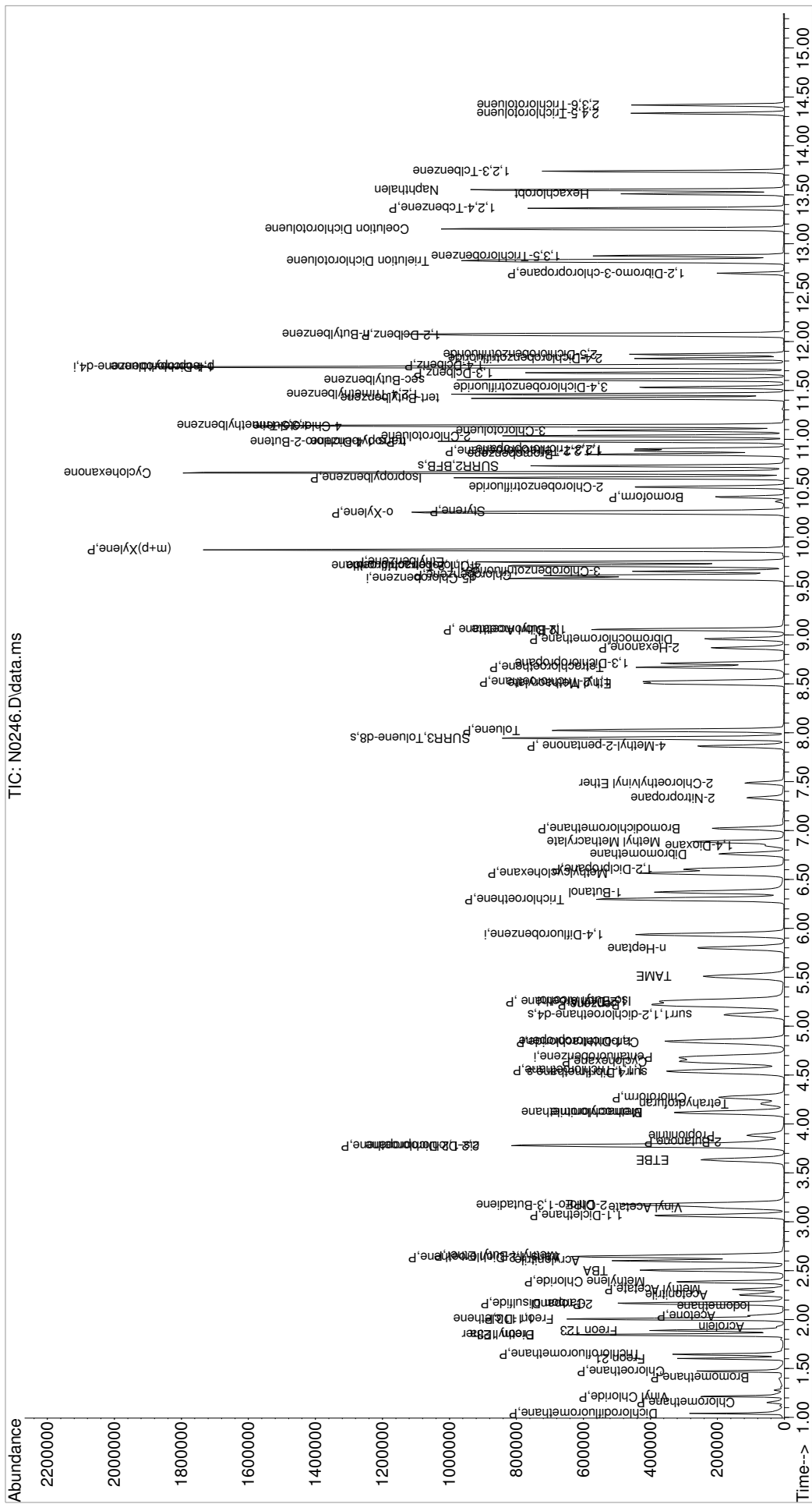
Quantitation Report (QT Reviewed)

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Data Path      : I:\ACQUDATA\MSVOA14\Data\092519\
Data File     : N0246.D
Acq On       : 25 Sep 2019   9:28 pm
Operator      : F.NAEGLER
Sample       : R1909228-002DMS|1.0
Misc         : VERINA 7979 T4
ALS Vial     : 26   Sample Multiplier: 1
Inst         : MSVOA14

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Quant Time: Sep 26 07:43:16 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



Evaluate Continuing Calibration Report

1st *FJ* 09/25/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0221.D
 Acq On : 25 Sep 2019 11:30 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:20:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 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	50.000	50.000	0.0	82	0.00	
2 P	Dichlorodifluoromethane	50.000	60.138	-20.3#	88	0.00	NT
3 P	Chloromethane	50.000	55.067	-10.1	88	0.00	
4 P	Vinyl Chloride	50.000	53.425	-6.8	82	0.00	
5 P	Bromomethane	50.000	51.238	-2.5	81	0.00	
6 P	Chloroethane	50.000	49.684	0.6	79	0.00	
7	Freon 21	50.000	48.972	2.1	79	0.00	
8 P	Trichlorofluoromethane	50.000	48.800	2.4	76	0.00	
9	Diethyl Ether	50.000	50.835	-1.7	82	0.00	
10	Freon 123a	50.000	48.776	2.4	80	0.00	
11	Freon 123	50.000	47.987	4.0	77	0.00	
12	Acrolein	250.000	219.310	12.3	72	0.00	
13	1,1-Dicethene	50.000	46.303	7.4	75	0.00	
14 P	Freon 113	50.000	45.502	9.0	73	0.00	
15 P	Acetone	50.000	47.027	5.9	75	0.00	
16	2-Propanol	1000.000	937.417	6.3	74	0.00	
17	Iodomethane	50.000	41.468	17.1	61	0.00	
18 P	Carbon Disulfide	50.000	46.024	8.0	73	0.00	
19	Acetonitrile	250.000	291.619	-16.6	89	0.00	
20	Allyl Chloride	50.000	54.235	-8.5	89	0.00	
21 P	Methyl Acetate	50.000	50.572	-1.1	82	0.00	
22 P	Methylene Chloride	50.000	47.931	4.1	80	0.00	
23	TBA	1000.000	892.154	10.8	69	0.00	
24	Acrylonitrile	250.000	253.745	-1.5	80	0.00	
25 P	Methyl-t-Butyl Ether	50.000	48.987	2.0	78	0.00	
26 P	trans-1,2-Dichloroethene	50.000	48.139	3.7	77	0.00	
27 P	1,1-Dicethane	50.000	50.192	-0.4	78	0.00	
28	Vinyl Acetate	50.000	49.369	1.3	79	0.00	
29	DIPE	50.000	53.579	-7.2	88	0.00	
30	2-Chloro-1,3-Butadiene	50.000	50.286	-0.6	79	0.00	
31	ETBE	50.000	50.604	-1.2	82	0.00	
32	2,2-Dichloropropane	50.000	46.977	6.0	73	0.00	
33 P	cis-1,2-Dichloroethene	50.000	48.792	2.4	76	0.00	
34 P	2-Butanone	50.000	49.709	0.6	80	0.00	
35	Propionitrile	250.000	249.457	0.2	78	0.00	
36	Bromochloromethane	50.000	46.731	6.5	74	0.00	
37	Methacrylonitrile	50.000	48.392	3.2	78	0.00	
38	Tetrahydrofuran	50.000	48.047	3.9	80	0.00	
39 P	Chloroform	50.000	46.936	6.1	79	0.00	
40 P	1,1,1-Trichloroethane	50.000	47.674	4.7	73	0.00	
41	TAME	50.000	48.604	2.8	79	0.00	
42 i	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00	
43 P	Cyclohexane	50.000	51.755	-3.5	85	-0.01	
44 s	surr4,Dibrflmethane	50.000	51.238	-2.5	83	0.00	
45 P	Carbontetrachloride	50.000	44.111	11.8	69	0.00	
46	1,1-Dichloropropene	50.000	48.416	3.2	76	0.00	
47 s	surr1,1,2-dichloroethane-d4	50.000	54.739	-9.5	90	0.00	
48 P	Benzene	50.000	48.768	2.5	77	0.00	
49 P	1,2-Dichloroethane	50.000	51.555	-3.1	81	0.00	
50	Iso-Butyl Alcohol	1000.000	945.495	5.5	71	0.00	
51	n-Heptane	50.000	52.843	-5.7	84	0.00	

Evaluate Continuing Calibration Report

1st *FJ* 09/25/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0221.D
 Acq On : 25 Sep 2019 11:30 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:20:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 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	1-Butanol	2500.000	2382.569	4.7	70	0.00
53 P	Trichloroethene	50.000	42.835	14.3	67	0.00
54 P	Methylcyclohexane	50.000	51.095	-2.2	84	0.00
55 P	1,2-Dichloropropane	50.000	49.534	0.9	79	0.00
56	Dibromomethane	50.000	48.070	3.9	76	0.00
57	1,4-Dioxane	1000.000	923.776	7.6	71	0.00
58	Methyl Methacrylate	50.000	49.105	1.8	76	0.00
59 P	Bromodichloromethane	50.000	47.989	4.0	76	0.00
60	2-Nitropropane	100.000	80.299	19.7	62	0.00
61	2-Chloroethylvinyl Ether	50.000	45.983	8.0	69	0.00
62 P	cis-1,3-Dichloropropene	50.000	49.815	0.4	76	0.00
63 P	4-Methyl-2-pentanone	50.000	51.008	-2.0	80	0.00
64 s	SURR3,Toluene-d8	50.000	50.932	-1.9	85	0.00
65 P	Toluene	50.000	47.070	5.9	74	0.00
66 P	trans-1,3-Dichloropropene	50.000	49.034	1.9	74	0.00
67	Ethyl Methacrylate	50.000	50.084	-0.2	77	0.00
68 P	1,1,2-Trichloroethane	50.000	47.907	4.2	77	0.00
69 s	SURR2,BFB	50.000	48.542	2.9	80	0.00
70 i	d5-Chlorobenzene	50.000	50.000	0.0	81	0.00
71 P	Tetrachloroethene	50.000	45.611	8.8	72	0.00
72 P	2-Hexanone	50.000	51.085	-2.2	78	0.00
73	1,3-Dichloropropane	50.000	49.651	0.7	78	0.00
74 P	Dibromochloromethane	50.000	47.607	4.8	72	0.00
75	N-Butyl Acetate	50.000	52.652	-5.3	80	0.00
76 P	1,2-Dibromoethane	50.000	48.692	2.6	75	0.00
77	3-Chlorobenzotrifluoride	50.000	48.879	2.2	82	0.00
78 P	Chlorobenzene	50.000	46.233	7.5	74	0.00
79	4-Chlorobenzotrifluoride	50.000	49.015	2.0	82	0.00
80	1,1,1,2-Tetrachloroethane	50.000	45.294	9.4	69	0.00
81 P	Ethylbenzene	50.000	45.695	8.6	72	0.00
82 P	(m+p)Xylene	100.000	92.626	7.4	72	0.00
83 P	o-Xylene	50.000	46.465	7.1	72	0.00
84 P	Styrene	50.000	47.759	4.5	73	0.00
85 P	Bromoform	50.000	43.884	12.2	67	0.00
86	2-Chlorobenzotrifluoride	50.000	47.270	5.5	78	0.00
87 P	Isopropylbenzene	50.000	45.406	9.2	70	0.00
88	Cyclohexanone	1000.000	922.334	7.8	68	0.00
89	trans-1,4-Dichloro-2-Butene	50.000	51.153	-2.3	77	0.00
90 i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	79	0.00
91 P	1,1,2,2-Tetrachloroethane	50.000	55.589	-11.2	85	0.00
92	Bromobenzene	50.000	47.303	5.4	72	0.00
93	1,2,3-Trichloropropane	50.000	48.266	3.5	75	0.00
94	n-Propylbenzene	50.000	48.045	3.9	72	0.00
95	2-Chlorotoluene	50.000	48.194	3.6	74	0.00
96	3-Chlorotoluene	50.000	50.746	-1.5	83	0.00
97	4-Chlorotoluene	50.000	47.801	4.4	73	0.00
98	1,3,5-Trimethylbenzene	50.000	46.254	7.5	71	0.00
99	tert-Butylbenzene	50.000	44.681	10.6	68	0.00
100	1,2,4-Trimethylbenzene	50.000	46.792	6.4	70	0.00
101	3,4-Dichlorobenzotrifluorid	50.000	50.263	-0.5	81	0.00

Evaluate Continuing Calibration Report

1st *FJ* 09/25/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0221.D
Acq On : 25 Sep 2019 11:30 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:20:20 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
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	sec-Butylbenzene	50.000	46.500	7.0	70	0.00
103	p-Isopropyltoluene	50.000	45.729	8.5	69	0.00
104 P	1,3-Dclbenz	50.000	46.692	6.6	71	0.00
105 P	1,4-Dclbenz	50.000	46.400	7.2	72	0.00
106	2,4-Dichlorobenzotrifluorid	50.000	50.131	-0.3	81	0.00
107	2,5-Dichlorobenzotrifluorid	50.000	51.311	-2.6	84	0.00
108	n-Butylbenzene	50.000	49.200	1.6	73	0.00
109 P	1,2-Dclbenz	50.000	47.684	4.6	72	0.00
110 P	1,2-Dibromo-3-chloropropane	50.000	45.742	8.5	65	0.00
111	Trielution Dichlorotoluene	150.000	156.449	-4.3	82	0.00
112	1,3,5-Trichlorobenzene	50.000	52.100	-4.2	83	0.00
113	Coelution Dichlorotoluene	100.000	104.013	-4.0	81	0.00
114 P	1,2,4-Tcbenzene	50.000	47.640	4.7	72	0.00
115	Hexachlorobt	50.000	47.045	5.9	71	0.00
116	Naphthalen	50.000	49.450	1.1	70	0.00
117	1,2,3-Tclbenzene	50.000	48.731	2.5	72	0.00
118	2,4,5-Trichlorotoluene	50.000	58.032	-16.1	83	0.00
119	2,3,6-Trichlorotoluene	50.000	57.914	-15.8	83	0.00

(#) = Out of Range

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

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0221.D
 Acq On : 25 Sep 2019 11:30 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:20:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	305019	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.931	114	457217	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	390658	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	194458	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	149831	51.24	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	102.48%		
47) surr1,1,2-dichloroetha...	5.114	65	187066	54.74	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	109.48%		
64) SURR3,Toluene-d8	7.943	98	575911	50.93	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	101.86%		
69) SURR2,BFB	10.729	95	207352	48.54	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	97.08%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	211913	60.14	ug/L	99
3) Chloromethane	1.151	50	223694	55.07	ug/L	99
4) Vinyl Chloride	1.219	62	219737	53.42	ug/L	98
5) Bromomethane	1.408	94	96028	51.24	ug/L	100
6) Chloroethane	1.475	64	115441	49.68	ug/L	99
7) Freon 21	1.603	67	266041	48.97	ug/L	99
8) Trichlorofluoromethane	1.645	101	218578	48.80	ug/L	99
9) Diethyl Ether	1.846	59	146309	50.83	ug/L	97
10) Freon 123a	1.846	67	176693	48.78	ug/L	94
11) Freon 123	1.889	83	197114	47.99	ug/L	99
12) Acrolein	1.926	56	192098	219.31	ug/L	97
13) 1,1-Dicethene	2.005	96	130036	46.30	ug/L	94
14) Freon 113	2.011	101	128676	45.50	ug/L	96
15) Acetone	2.042	43	84614	47.03	ug/L	99
16) 2-Propanol	2.157	45	319977	937.42	ug/L	97
17) Iodomethane	2.115	142	142301	41.47	ug/L	96
18) Carbon Disulfide	2.170	76	364066	46.02	ug/L	100
19) Acetonitrile	2.249	41	147946	291.62	ug/L	98
20) Allyl Chloride	2.285	76	82189	54.23	ug/L	93
21) Methyl Acetate	2.310	43	170878	50.57	ug/L	97
22) Methylene Chloride	2.383	84	159049	47.93	ug/L	90
23) TBA	2.499	59	485858	892.15	ug/L	92
24) Acrylonitrile	2.596	53	435081	253.74	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	502394	48.99	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	149005	48.14	ug/L	97
27) 1,1-Dicethane	3.060	63	279226	50.19	ug/L	98
28) Vinyl Acetate	3.145	86	35340	49.37	ug/L	99
29) DIPE	3.175	45	547458	53.58	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.169	53	214946	50.29	ug/L	98
31) ETBE	3.633	59	499595	50.60	ug/L	97
32) 2,2-Dichloropropane	3.773	77	213504	46.98	ug/L	97
33) cis-1,2-Dichloroethene	3.779	96	166729	48.79	ug/L	98
34) 2-Butanone	3.822	43	116979	49.71	ug/L	98
35) Propionitrile	3.883	54	170496	249.46	ug/L	99
36) Bromochloromethane	4.114	130	105270	46.73	ug/L	90
37) Methacrylonitrile	4.114	67	89745	48.39	ug/L	90
38) Tetrahydrofuran	4.200	42	72899	48.05	ug/L	90
39) Chloroform	4.267	83	265551	46.94	ug/L	96
40) 1,1,1-Trichloroethane	4.541	97	220085	47.67	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
 Data File : N0221.D
 Acq On : 25 Sep 2019 11:30 am
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:20:20 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	466212	48.60	ug/L	97
43) Cyclohexane	4.633	41	159286	51.76	ug/L	98
45) Carbontetrachloride	4.834	117	178413	44.11	ug/L	97
46) 1,1-Dichloropropene	4.846	75	201472	48.42	ug/L	98
48) Benzene	5.212	78	596261	48.77	ug/L	99
49) 1,2-Dichloroethane	5.254	62	226358	51.55	ug/L	98
50) Iso-Butyl Alcohol	5.254	43	229837	945.49	ug/L	94
51) n-Heptane	5.797	43	211304	52.84	ug/L	98
52) 1-Butanol	6.370	56	351321	2382.57	ug/L	95
53) Trichloroethene	6.297	130	154556	42.84	ug/L	96
54) Methylcyclohexane	6.559	55	210785	51.09	ug/L	92
55) 1,2-Dichloropropane	6.602	63	164285	49.53	ug/L	100
56) Dibromomethane	6.760	93	103790	48.07	ug/L	98
57) 1,4-Dioxane	6.845	88	56167	923.78	ug/L	98
58) Methyl Methacrylate	6.882	69	142489	49.11	ug/L	92
59) Bromodichloromethane	7.022	83	188480	47.99	ug/L	99
60) 2-Nitropropane	7.333	41	81251	80.30	ug/L	97
61) 2-Chloroethylvinyl Ether	7.486	63	59256	45.98	ug/L	97
62) cis-1,3-Dichloropropene	7.620	75	247639	49.82	ug/L	98
63) 4-Methyl-2-pentanone	7.857	43	208506	51.01	ug/L	96
65) Toluene	8.022	91	610495	47.07	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	223249	49.03	ug/L	100
67) Ethyl Methacrylate	8.504	69	249442	50.08	ug/L	95
68) 1,1,2-Trichloroethane	8.522	97	150043	47.91	ug/L	96
71) Tetrachloroethene	8.668	164	119324	45.61	ug/L	96
72) 2-Hexanone	8.863	43	152495	51.08	ug/L	96
73) 1,3-Dichloropropane	8.711	76	263089	49.65	ug/L	96
74) Dibromochloromethane	8.961	129	149116	47.61	ug/L	98
75) N-Butyl Acetate	9.052	43	312385	52.65	ug/L	97
76) 1,2-Dibromoethane	9.058	107	157065	48.69	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	226318	48.88	ug/L	98
78) Chlorobenzene	9.607	112	395090	46.23	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	205429	49.01	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.705	131	136985	45.29	ug/L	99
81) Ethylbenzene	9.747	106	203496	45.70	ug/L	# 90
82) (m+p)Xylene	9.869	106	503480	92.63	ug/L	97
83) o-Xylene	10.247	106	246438	46.47	ug/L	100
84) Styrene	10.259	104	428028	47.76	ug/L	99
85) Bromoform	10.412	173	98307	43.88	ug/L	97
86) 2-Chlorobenzotrifluoride	10.515	180	211948	47.27	ug/L	96
87) Isopropylbenzene	10.607	105	630342	45.41	ug/L	100
88) Cyclohexanone	10.656	55	629624	922.33	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.930	53	53462	51.15	ug/L	89
91) 1,1,2,2-Tetrachloroethane	10.881	83	211013	55.59	ug/L	99
92) Bromobenzene	10.845	156	166202	47.30	ug/L	94
93) 1,2,3-Trichloropropane	10.900	110	66980	48.27	ug/L	94
94) n-Propylbenzene	10.979	91	708132	48.04	ug/L	98
95) 2-Chlorotoluene	11.034	91	435832	48.19	ug/L	98
96) 3-Chlorotoluene	11.089	91	471711	50.75	ug/L	97
97) 4-Chlorotoluene	11.131	91	491797	47.80	ug/L	99
98) 1,3,5-Trimethylbenzene	11.143	105	501374	46.25	ug/L	99
99) tert-Butylbenzene	11.418	119	420919	44.68	ug/L	100
100) 1,2,4-Trimethylbenzene	11.460	105	501686	46.79	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.534	214	167383	50.26	ug/L	99
102) sec-Butylbenzene	11.607	105	622733	46.50	ug/L	99
103) p-Isopropyltoluene	11.735	119	526888	45.73	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0221.D
Acq On : 25 Sep 2019 11:30 am
Operator : F.NAEGLER
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 25 12:20:20 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	299510	46.69	ug/L	98
105) 1,4-Dclbenz	11.759	146	302497	46.40	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	151755	50.13	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	174109	51.31	ug/L	99
108) n-Butylbenzene	12.076	91	491558	49.20	ug/L	99
109) 1,2-Dclbenz	12.064	146	297623	47.68	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.698	157	46044	45.74	ug/L	93
111) Trielution Dichlorotol...	12.826	125	832592	156.45	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	236799	52.10	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	603190	104.01	ug/L	98
114) 1,2,4-Tcbenzene	13.363	180	215450	47.64	ug/L	98
115) Hexachlorobt	13.509	225	97191	47.05	ug/L	98
116) Naphthalen	13.552	128	647860	49.45	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	215046	48.73	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	161904	58.03	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	170833	57.91	ug/L	98

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

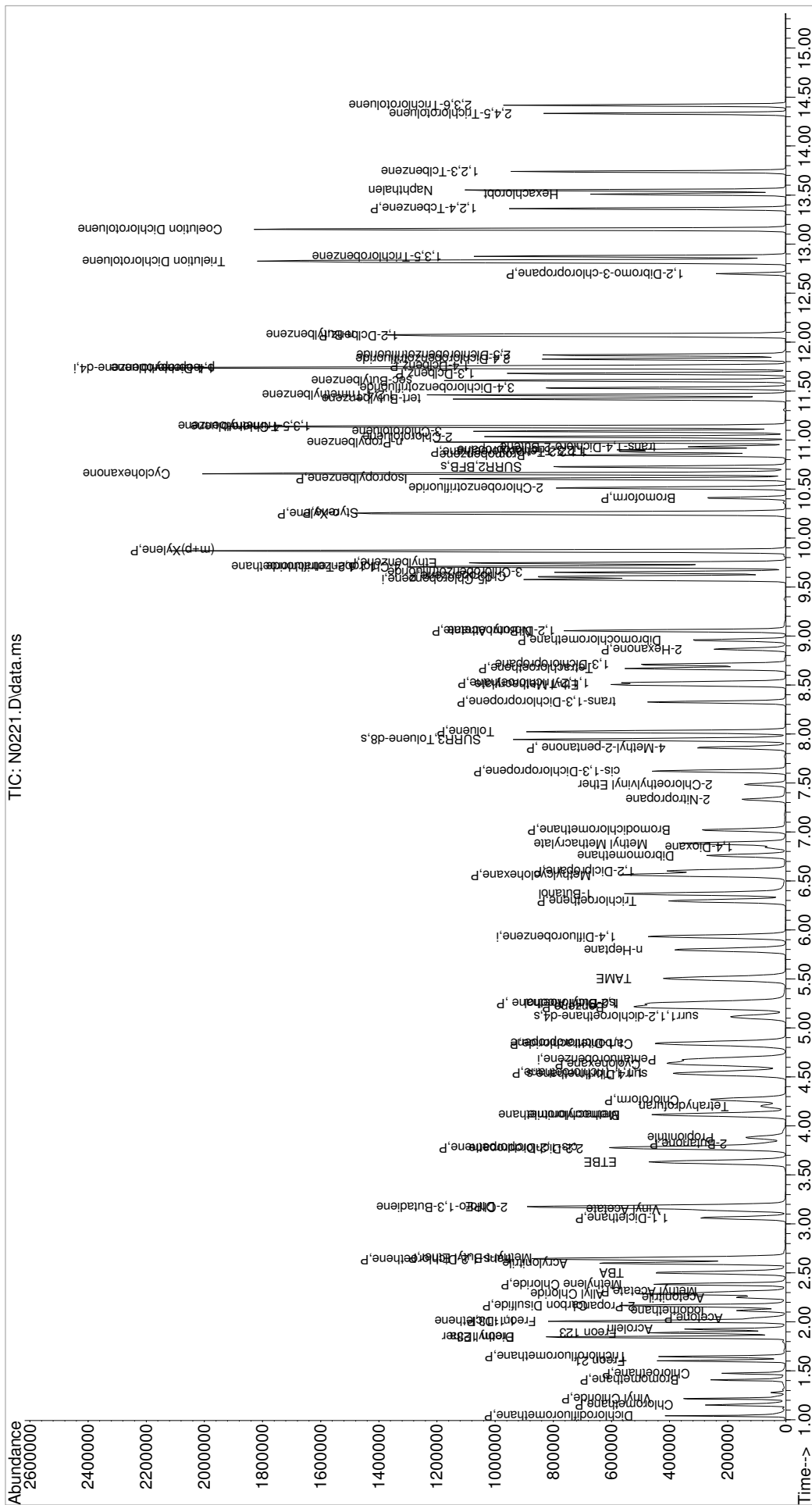
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\092519\
Data File	:	N0221.D
Acq On	:	25 Sep 2019 11:30 am
Operator	:	F.NAEGLER
Sample	:	CCV
Misc	:	
ALS Vial	:	1 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 25 12:20:20 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration



Evaluate Continuing Calibration Report

1st *FJ* 09/26/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0284.D
 Acq On : 26 Sep 2019 12:51 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:06:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 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	50.000	50.000	0.0	85	0.00
2 P	Dichlorodifluoromethane	50.000	60.400	-20.8#	92	0.00 NT
3 P	Chloromethane	50.000	56.419	-12.8	93	0.00
4 P	Vinyl Chloride	50.000	52.417	-4.8	84	0.00
5 P	Bromomethane	50.000	51.773	-3.5	85	0.00
6 P	Chloroethane	50.000	51.016	-2.0	84	0.00
7	Freon 21	50.000	46.879	6.2	79	0.00
8 P	Trichlorofluoromethane	50.000	50.098	-0.2	81	0.00
9	Diethyl Ether	50.000	51.771	-3.5	86	0.00
10	Freon 123a	50.000	45.157	9.7	77	0.00
11	Freon 123	50.000	45.179	9.6	75	0.00
12	Acrolein	250.000	214.782	14.1	73	0.00
13	1,1-Dicethene	50.000	48.795	2.4	82	0.00
14 P	Freon 113	50.000	49.436	1.1	83	0.00
15 P	Acetone	50.000	43.155	13.7	71	0.00
16	2-Propanol	1000.000	897.776	10.2	74	0.00
17	Iodomethane	50.000	45.773	8.5	70	0.00
18 P	Carbon Disulfide	50.000	47.840	4.3	79	0.00
19	Acetonitrile	250.000	282.948	-13.2	89	0.00
20	Allyl Chloride	50.000	55.791	-11.6	95	0.00
21 P	Methyl Acetate	50.000	49.146	1.7	83	0.00
22 P	Methylene Chloride	50.000	48.319	3.4	84	0.00
23	TBA	1000.000	873.184	12.7	70	0.00
24	Acrylonitrile	250.000	248.800	0.5	82	0.00
25 P	Methyl-t-Butyl Ether	50.000	50.654	-1.3	84	0.00
26 P	trans-1,2-Dichloroethene	50.000	49.731	0.5	82	0.00
27 P	1,1-Dicethane	50.000	51.745	-3.5	84	0.00
28	Vinyl Acetate	50.000	50.159	-0.3	83	0.00
29	DIPE	50.000	51.085	-2.2	87	0.00
30	2-Chloro-1,3-Butadiene	50.000	51.183	-2.4	84	0.00
31	ETBE	50.000	49.380	1.2	83	0.00
32	2,2-Dichloropropane	50.000	48.842	2.3	79	0.00
33 P	cis-1,2-Dichloroethene	50.000	49.567	0.9	81	0.00
34 P	2-Butanone	50.000	47.480	5.0	79	0.00
35	Propionitrile	250.000	248.252	0.7	80	0.00
36	Bromochloromethane	50.000	48.178	3.6	79	0.00
37	Methacrylonitrile	50.000	48.035	3.9	80	0.00
38	Tetrahydrofuran	50.000	47.792	4.4	83	0.00
39 P	Chloroform	50.000	47.894	4.2	84	0.00
40 P	1,1,1-Trichloroethane	50.000	49.418	1.2	79	0.00
41	TAME	50.000	47.474	5.1	80	0.00
42 i	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
43 P	Cyclohexane	50.000	48.638	2.7	83	-0.01
44 s	surr4,Dibrlmethane	50.000	51.417	-2.8	87	0.00
45 P	Carbontetrachloride	50.000	46.591	6.8	75	0.00
46	1,1-Dichloropropene	50.000	50.454	-0.9	82	0.00
47 s	surr1,1,2-dichloroethane-d4	50.000	53.810	-7.6	92	0.00
48 P	Benzene	50.000	50.020	-0.0	82	0.00
49 P	1,2-Dichloroethane	50.000	52.784	-5.6	86	0.00
50	Iso-Butyl Alcohol	1000.000	920.060	8.0	72	0.00
51	n-Heptane	50.000	54.522	-9.0	90	0.00

Evaluate Continuing Calibration Report

1st *FJ* 09/26/19
2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0284.D
 Acq On : 26 Sep 2019 12:51 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:06:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 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	1-Butanol	2500.000	2235.456	10.6	68	0.00
53 P	Trichloroethene	50.000	44.235	11.5	72	0.00
54 P	Methylcyclohexane	50.000	47.469	5.1	81	0.00
55 P	1,2-Dichloropropane	50.000	50.964	-1.9	84	0.00
56	Dibromomethane	50.000	49.279	1.4	82	0.00
57	1,4-Dioxane	1000.000	901.220	9.9	72	0.00
58	Methyl Methacrylate	50.000	50.680	-1.4	81	0.00
59 P	Bromodichloromethane	50.000	49.765	0.5	82	0.00
60	2-Nitropropane	100.000	85.073	14.9	69	0.00
61	2-Chloroethylvinyl Ether	50.000	50.511	-1.0	79	0.00
62 P	cis-1,3-Dichloropropene	50.000	52.000	-4.0	82	0.00
63 P	4-Methyl-2-pentanone	50.000	49.730	0.5	81	0.00
64 s	SURR3, Toluene-d8	50.000	50.141	-0.3	87	0.00
65 P	Toluene	50.000	49.512	1.0	81	0.00
66 P	trans-1,3-Dichloropropene	50.000	51.244	-2.5	80	0.00
67	Ethyl Methacrylate	50.000	50.806	-1.6	81	0.00
68 P	1,1,2-Trichloroethane	50.000	48.922	2.2	81	0.00
69 s	SURR2, BFB	50.000	46.640	6.7	80	0.00
70 i	d5-Chlorobenzene	50.000	50.000	0.0	84	0.00
71 P	Tetrachloroethene	50.000	47.724	4.6	78	0.00
72 P	2-Hexanone	50.000	48.788	2.4	77	0.00
73	1,3-Dichloropropane	50.000	50.622	-1.2	82	0.00
74 P	Dibromochloromethane	50.000	49.591	0.8	77	0.00
75	N-Butyl Acetate	50.000	51.846	-3.7	82	0.00
76 P	1,2-Dibromoethane	50.000	49.805	0.4	80	0.00
77	3-Chlorobenzotrifluoride	50.000	43.650	12.7	76	0.00
78 P	Chlorobenzene	50.000	48.094	3.8	79	0.00
79	4-Chlorobenzotrifluoride	50.000	43.672	12.7	76	0.00
80	1,1,1,2-Tetrachloroethane	50.000	47.846	4.3	76	0.00
81 P	Ethylbenzene	50.000	49.109	1.8	81	0.00
82 P	(m+p)Xylene	100.000	97.495	2.5	79	0.00
83 P	o-Xylene	50.000	48.865	2.3	79	0.00
84 P	Styrene	50.000	50.330	-0.7	80	0.00
85 P	Bromoform	50.000	46.185	7.6	73	0.00
86	2-Chlorobenzotrifluoride	50.000	43.262	13.5	74	0.00
87 P	Isopropylbenzene	50.000	47.374	5.3	76	0.00
88	Cyclohexanone	1000.000	781.362	21.9#	60	0.00 NT
89	trans-1,4-Dichloro-2-Butene	50.000	51.524	-3.0	80	0.00
90 i	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	80	0.00
91 P	1,1,2,2-Tetrachloroethane	50.000	56.876	-13.8	89	0.00
92	Bromobenzene	50.000	50.326	-0.7	79	0.00
93	1,2,3-Trichloropropane	50.000	48.547	2.9	77	0.00
94	n-Propylbenzene	50.000	51.146	-2.3	78	0.00
95	2-Chlorotoluene	50.000	51.535	-3.1	80	0.00
96	3-Chlorotoluene	50.000	47.689	4.6	79	0.00
97	4-Chlorotoluene	50.000	51.469	-2.9	80	0.00
98	1,3,5-Trimethylbenzene	50.000	49.286	1.4	77	0.00
99	tert-Butylbenzene	50.000	47.018	6.0	73	0.00
100	1,2,4-Trimethylbenzene	50.000	49.630	0.7	76	0.00
101	3,4-Dichlorobenzotrifluorid	50.000	46.843	6.3	77	0.00

Evaluate Continuing Calibration Report

 1st *FJ* 09/26/19
 2nd *RL* 09/30/19

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0284.D
 Acq On : 26 Sep 2019 12:51 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:06:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 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	sec-Butylbenzene	50.000	48.885	2.2	75	0.00
103	p-Isopropyltoluene	50.000	48.427	3.1	74	0.00
104 P	1,3-Dclbenz	50.000	49.350	1.3	77	0.00
105 P	1,4-Dclbenz	50.000	49.075	1.8	78	0.00
106	2,4-Dichlorobenzotrifluorid	50.000	45.515	9.0	75	0.00
107	2,5-Dichlorobenzotrifluorid	50.000	46.923	6.2	78	0.00
108	n-Butylbenzene	50.000	51.846	-3.7	78	0.00
109 P	1,2-Dclbenz	50.000	50.601	-1.2	78	0.00
110 P	1,2-Dibromo-3-chloropropane	50.000	47.460	5.1	69	0.00
111	Trielution Dichlorotoluene	150.000	144.732	3.5	78	0.00
112	1,3,5-Trichlorobenzene	50.000	49.518	1.0	80	0.00
113	Coelution Dichlorotoluene	100.000	98.174	1.8	78	0.00
114 P	1,2,4-Tcbenzene	50.000	50.467	-0.9	77	0.00
115	Hexachlorobt	50.000	47.437	5.1	73	0.00
116	Naphthalen	50.000	51.884	-3.8	75	0.00
117	1,2,3-Tclbenzene	50.000	50.735	-1.5	77	0.00
118	2,4,5-Trichlorotoluene	50.000	55.905	-11.8	81	0.00
119	2,3,6-Trichlorotoluene	50.000	55.510	-11.0	81	0.00

(#) = Out of Range

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

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0284.D
 Acq On : 26 Sep 2019 12:51 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:06:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	316336	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	475828	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	404776	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	198287	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	156475	51.42	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	102.84%	
47) surr1,1,2-dichloroetha...	5.114	65	191379	53.81	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.62%	
64) SURR3,Toluene-d8	7.943	98	590045	50.14	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.28%	
69) SURR2,BFB	10.729	95	207338	46.64	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	93.28%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	220732	60.40	ug/L	99
3) Chloromethane	1.152	50	237689	56.42	ug/L	98
4) Vinyl Chloride	1.219	62	223591	52.42	ug/L	99
5) Bromomethane	1.408	94	100301	51.77	ug/L	100
6) Chloroethane	1.475	64	122935	51.02	ug/L	100
7) Freon 21	1.603	67	264119	46.88	ug/L	98
8) Trichlorofluoromethane	1.645	101	232716	50.10	ug/L	100
9) Diethyl Ether	1.847	59	154532	51.77	ug/L	96
10) Freon 123a	1.847	67	169653	45.16	ug/L	96
11) Freon 123	1.889	83	192465	45.18	ug/L	99
12) Acrolein	1.926	56	195112	214.78	ug/L	98
13) 1,1-Dicethene	2.005	96	142119	48.79	ug/L	97
14) Freon 113	2.011	101	144989	49.44	ug/L	99
15) Acetone	2.042	43	80529	43.16	ug/L	98
16) 2-Propanol	2.157	45	317816	897.78	ug/L	98
17) Iodomethane	2.115	142	163990	45.77	ug/L	96
18) Carbon Disulfide	2.170	76	392475	47.84	ug/L	100
19) Acetonitrile	2.249	41	148873	282.95	ug/L	97
20) Allyl Chloride	2.285	76	87684	55.79	ug/L	95
21) Methyl Acetate	2.310	43	172221	49.15	ug/L	99
22) Methylene Chloride	2.383	84	166285	48.32	ug/L	95
23) TBA	2.505	59	493170	873.18	ug/L	95
24) Acrylonitrile	2.596	53	442430	248.80	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	538763	50.65	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	159644	49.73	ug/L	97
27) 1,1-Dicethane	3.060	63	298546	51.74	ug/L	100
28) Vinyl Acetate	3.139	86	37238	50.16	ug/L	# 92
29) DIPE	3.182	45	541339	51.08	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.169	53	226900	51.18	ug/L	93
31) ETBE	3.627	59	505595	49.38	ug/L	95
32) 2,2-Dichloropropane	3.773	77	230215	48.84	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	175661	49.57	ug/L	91
34) 2-Butanone	3.822	43	115880	47.48	ug/L	99
35) Propionitrile	3.883	54	175968	248.25	ug/L	100
36) Bromochloromethane	4.114	130	112556	48.18	ug/L	89
37) Methacrylonitrile	4.114	67	92389	48.04	ug/L	89
38) Tetrahydrofuran	4.200	42	75203	47.79	ug/L	93
39) Chloroform	4.273	83	281023	47.89	ug/L	97
40) 1,1,1-Trichloroethane	4.541	97	236600	49.42	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0284.D
 Acq On : 26 Sep 2019 12:51 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:06:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	472263	47.47	ug/L	96
43) Cyclohexane	4.633	41	155785	48.64	ug/L	99
45) Carbontetrachloride	4.834	117	196115	46.59	ug/L	98
46) 1,1-Dichloropropene	4.846	75	218502	50.45	ug/L	95
48) Benzene	5.212	78	636469	50.02	ug/L	97
49) 1,2-Dichloroethane	5.248	62	241189	52.78	ug/L	98
50) Iso-Butyl Alcohol	5.254	43	232758	920.06	ug/L	98
51) n-Heptane	5.797	43	226892	54.52	ug/L	95
52) 1-Butanol	6.370	56	343046	2235.46	ug/L	99
53) Trichloroethene	6.297	130	166102	44.23	ug/L	97
54) Methylcyclohexane	6.565	55	203798	47.47	ug/L	98
55) 1,2-Dicloropropane	6.602	63	175908	50.96	ug/L	99
56) Dibromomethane	6.760	93	110731	49.28	ug/L	99
57) 1,4-Dioxane	6.846	88	57026	901.22	ug/L	97
58) Methyl Methacrylate	6.888	69	153046	50.68	ug/L	96
59) Bromodichloromethane	7.022	83	203413	49.77	ug/L	99
60) 2-Nitropropane	7.333	41	89585	85.07	ug/L	99
61) 2-Chloroethylvinyl Ether	7.486	63	67740	50.51	ug/L	99
62) cis-1,3-Dichloropropene	7.620	75	269021	52.00	ug/L	98
63) 4-Methyl-2-pentanone	7.858	43	211554	49.73	ug/L	96
65) Toluene	8.022	91	668306	49.51	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	242807	51.24	ug/L	99
67) Ethyl Methacrylate	8.504	69	263336	50.81	ug/L	98
68) 1,1,2-Trichloroethane	8.522	97	159458	48.92	ug/L	97
71) Tetrachloroethene	8.668	164	129364	47.72	ug/L	99
72) 2-Hexanone	8.863	43	150903	48.79	ug/L	97
73) 1,3-Dichloropropane	8.711	76	277930	50.62	ug/L	97
74) Dibromochloromethane	8.961	129	160942	49.59	ug/L	100
75) N-Butyl Acetate	9.052	43	318717	51.85	ug/L	98
76) 1,2-Dibromoethane	9.052	107	166463	49.81	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	209413	43.65	ug/L	99
78) Chlorobenzene	9.607	112	425841	48.09	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	189651	43.67	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	149931	47.85	ug/L	98
81) Ethylbenzene	9.747	106	226605	49.11	ug/L	94
82) (m+p)Xylene	9.869	106	549093	97.49	ug/L	100
83) o-Xylene	10.247	106	268531	48.86	ug/L	96
84) Styrene	10.260	104	467368	50.33	ug/L	99
85) Bromoform	10.412	173	107200	46.18	ug/L	98
86) 2-Chlorobenzotrifluoride	10.509	180	200984	43.26	ug/L	94
87) Isopropylbenzene	10.607	105	681434	47.37	ug/L	100
88) Cyclohexanone	10.656	55	552667	781.36	ug/L	96
89) trans-1,4-Dichloro-2-B...	10.930	53	55796	51.52	ug/L	93
91) 1,1,2,2-Tetrachloroethane	10.881	83	220149	56.88	ug/L	98
92) Bromobenzene	10.845	156	180306	50.33	ug/L	94
93) 1,2,3-Trichloropropane	10.900	110	68696	48.55	ug/L	93
94) n-Propylbenzene	10.979	91	768682	51.15	ug/L	98
95) 2-Chlorotoluene	11.034	91	475223	51.53	ug/L	98
96) 3-Chlorotoluene	11.089	91	452023	47.69	ug/L	97
97) 4-Chlorotoluene	11.131	91	539961	51.47	ug/L	98
98) 1,3,5-Trimethylbenzene	11.144	105	544762	49.29	ug/L	100
99) tert-Butylbenzene	11.418	119	451658	47.02	ug/L	98
100) 1,2,4-Trimethylbenzene	11.461	105	542590	49.63	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.534	214	159067	46.84	ug/L	99
102) sec-Butylbenzene	11.607	105	667559	48.88	ug/L	99
103) p-Isopropyltoluene	11.735	119	568964	48.43	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
 Data File : N0284.D
 Acq On : 26 Sep 2019 12:51 pm
 Operator : F.NAEGLER
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 26 13:06:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	322798	49.35	ug/L	98
105) 1,4-Dclbenz	11.759	146	326235	49.08	ug/L	100
106) 2,4-Dichlorobenzotrifl...	11.826	214	140494	45.52	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	162354	46.92	ug/L	97
108) n-Butylbenzene	12.076	91	528192	51.85	ug/L	99
109) 1,2-Dclbenz	12.064	146	322053	50.60	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.698	157	48714	47.46	ug/L	92
111) Trielution Dichlorotol...	12.826	125	785399	144.73	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	229496	49.52	ug/L	100
113) Coelution Dichlorotoluene	13.149	125	580537	98.17	ug/L	98
114) 1,2,4-Tcbenzene	13.363	180	232729	50.47	ug/L	99
115) Hexachlorobt	13.509	225	99930	47.44	ug/L	96
116) Naphthalen	13.552	128	693129	51.88	ug/L	99
117) 1,2,3-Tclbenzene	13.741	180	228297	50.73	ug/L	100
118) 2,4,5-Trichlorotoluene	14.332	159	159041	55.90	ug/L	100
119) 2,3,6-Trichlorotoluene	14.417	159	166967	55.51	ug/L	99

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

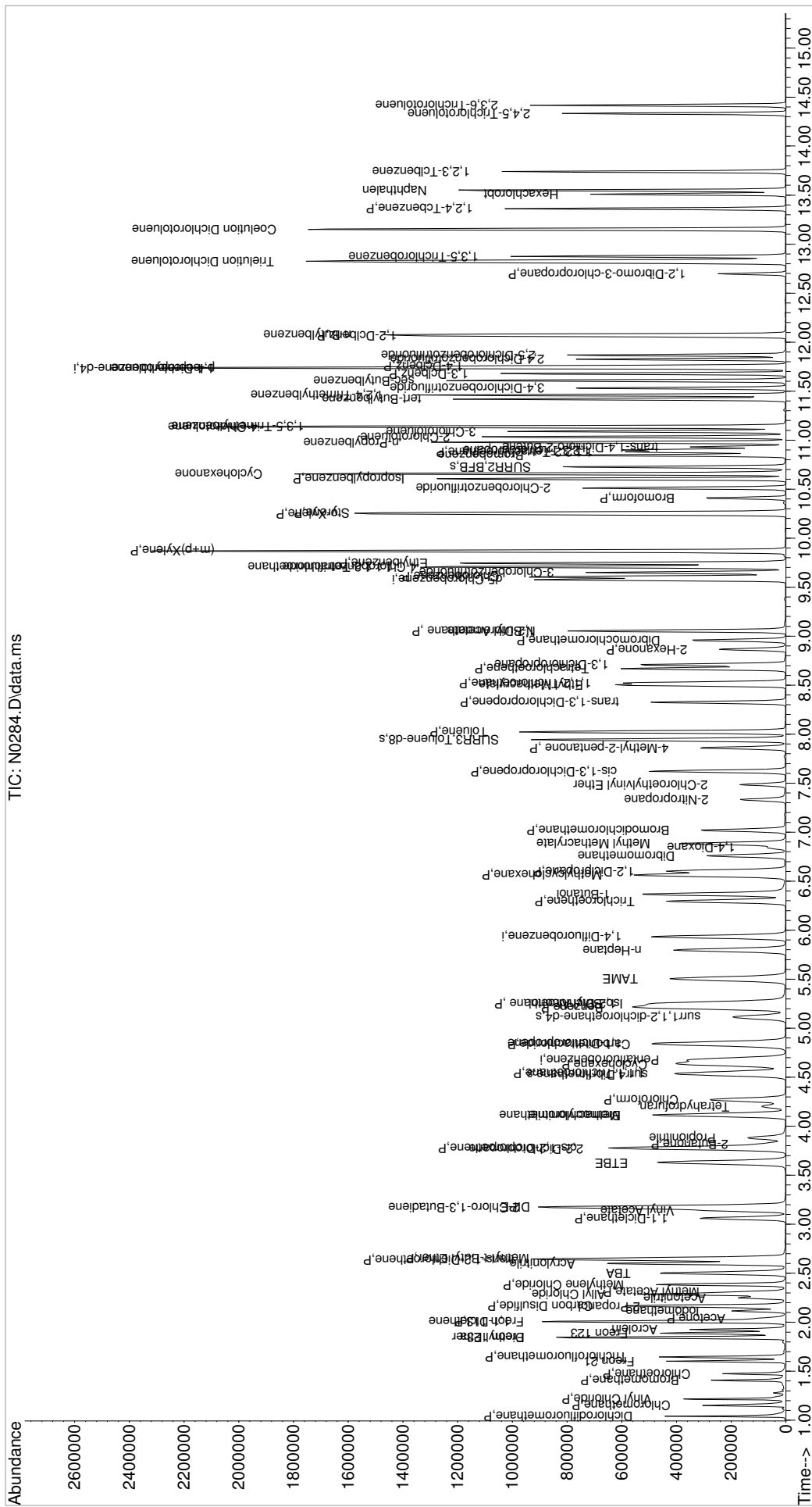
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\092619\
Data File	:	N0284.D
Acq On	:	26 Sep 2019 12:51 pm
Operator	:	F.NAEGLER
Sample	:	CCV
Misc	:	
ALS Vial	:	1 Sample Multiplier: 1

Inst : MSVOA14

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 26 13:06:56 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
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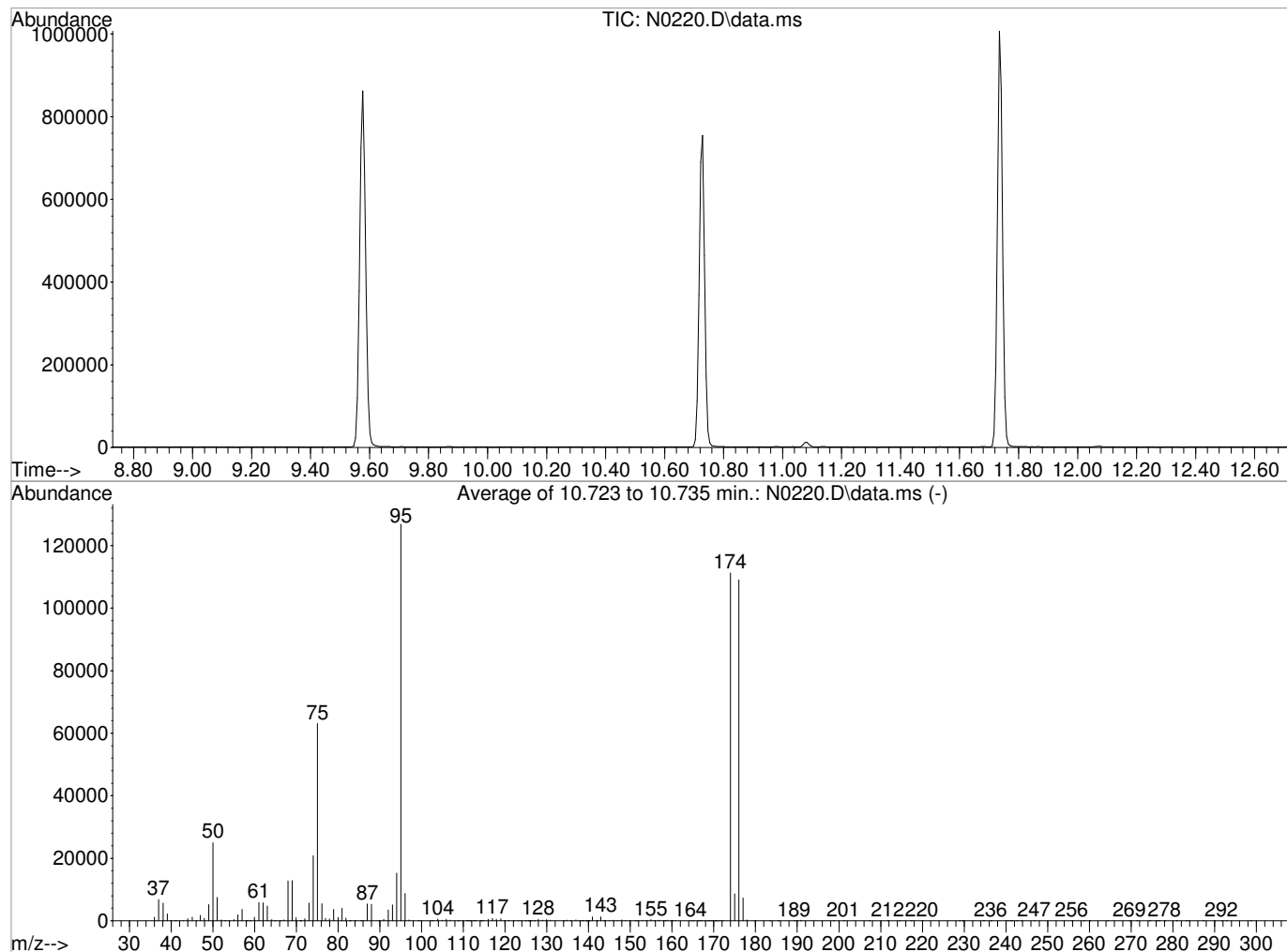


Data Path : I:\ACQUDATA\MSVOA14\Data\092519\
Data File : N0220.D
Acq On : 25 Sep 2019 10:57 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Mon Sep 16 09:11:19 2019



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1591

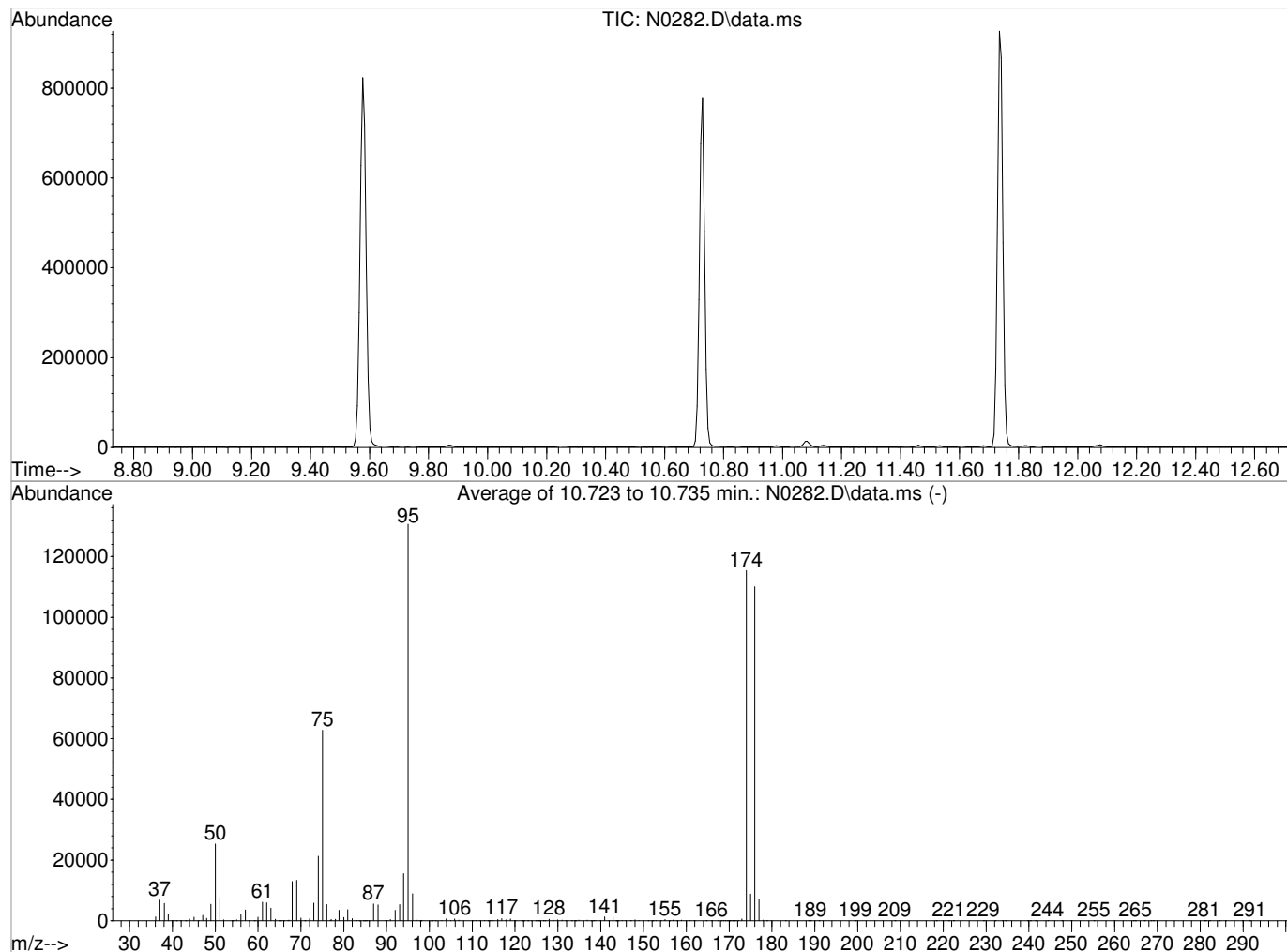
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	24986	PASS
75	95	30	60	49.7	63075	PASS
95	95	100	100	100.0	126827	PASS
96	95	5	9	6.9	8716	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.7	111259	PASS
175	174	5	9	7.8	8661	PASS
176	174	95	101	98.1	109099	PASS
177	176	5	9	6.7	7309	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\092619\
Data File : N0282.D
Acq On : 26 Sep 2019 11:27 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Mon Sep 16 09:11:19 2019



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	25265	PASS
75	95	30	60	48.1	62755	PASS
95	95	100	100	100.0	130603	PASS
96	95	5	9	6.8	8858	PASS
173	174	0.00	2	0.6	639	PASS
174	95	50	120	88.3	115360	PASS
175	174	5	9	7.6	8771	PASS
176	174	95	101	95.4	110048	PASS
177	176	5	9	6.4	7010	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9869.D
 Acq On : 11 Sep 2019 7:10 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 10:21:17 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	361972	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	548823	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	477086	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	247187	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	173320	49.38	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	98.76%
47) surr1,1,2-dichloroetha...	5.114	65	203532	49.62	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	99.24%
64) SURR3,Toluene-d8	7.943	98	667270	49.16	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.32%
69) SURR2,BFB	10.729	95	251675	49.08	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	98.16%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	179504	42.93	ug/L	99
3) Chloromethane	1.151	50	220673	45.78	ug/L	98
4) Vinyl Chloride	1.218	62	219773	45.03	ug/L	99
5) Bromomethane	1.408	94	104510	45.35	ug/L	97
6) Chloroethane	1.475	64	126127	45.74	ug/L	98
7) Freon 21	1.603	67	311650	48.34	ug/L	100
8) Trichlorofluoromethane	1.645	101	257911	48.52	ug/L	99
9) Diethyl Ether	1.846	59	160459	46.98	ug/L	100
10) Freon 123a	1.846	67	211776	49.26	ug/L	98
11) Freon 123	1.889	83	262332	53.82	ug/L	99
12) Acrolein	1.926	56	74118	71.30	ug/L	98
13) 1,1-Dicethene	2.005	96	160586	48.18	ug/L	96
14) Freon 113	2.011	101	160542	47.84	ug/L	99
15) Acetone	2.042	43	107558	50.37	ug/L	99
16) 2-Propanol	2.157	45	420884	1039.03	ug/L	99
17) Iodomethane	2.115	142	188038	45.86	ug/L	97
18) Carbon Disulfide	2.170	76	482561	51.40	ug/L	99
19) Acetonitrile	2.255	41	161353	268.00	ug/L	97
20) Allyl Chloride	2.285	76	73803	41.04	ug/L	97
21) Methyl Acetate	2.310	43	204363	50.97	ug/L	98
22) Methylene Chloride	2.389	84	182339	46.30	ug/L	99
23) TBA	2.505	59	656249	1015.43	ug/L	100
24) Acrylonitrile	2.602	53	505602	248.48	ug/L	97
25) Methyl-t-Butyl Ether	2.651	73	592274	48.66	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	171717	46.75	ug/L	98
27) 1,1-Dicethane	3.066	63	321314	48.67	ug/L	99
28) Vinyl Acetate	3.145	86	48696	57.32	ug/L #	91
29) DIPE	3.182	45	594727	49.05	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.175	53	257128	50.69	ug/L	97
31) ETBE	3.633	59	530670	45.29	ug/L	99
32) 2,2-Dichloropropane	3.779	77	262245	48.62	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	197947	48.81	ug/L	98
34) 2-Butanone	3.822	43	144573	51.77	ug/L	99
35) Propionitrile	3.883	54	205395	253.23	ug/L	98
36) Bromochloromethane	4.120	130	130987	49.00	ug/L	98
37) Methacrylonitrile	4.114	67	103158	46.87	ug/L	98
38) Tetrahydrofuran	4.206	42	86052	47.79	ug/L	97
39) Chloroform	4.273	83	310577	46.26	ug/L	98
40) 1,1,1-Trichloroethane	4.547	97	275371	50.26	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9869.D
 Acq On : 11 Sep 2019 7:10 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 10:21:17 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	557369	48.96	ug/L	100
43) Cyclohexane	4.639	41	176292	47.72	ug/L	98
45) Carbontetrachloride	4.834	117	237012	48.82	ug/L	96
46) 1,1-Dichloropropene	4.846	75	242407	48.53	ug/L	96
48) Benzene	5.218	78	707228	48.19	ug/L	98
49) 1,2-Dichloroethane	5.254	62	245988	46.67	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	288179	987.62	ug/L	98
51) n-Heptane	5.797	43	225265	46.93	ug/L	98
52) 1-Butanol	6.370	56	475836	2688.37	ug/L	100
53) Trichloroethene	6.297	130	199523	46.07	ug/L	99
54) Methylcyclohexane	6.565	55	242231	48.92	ug/L	97
55) 1,2-Dicloropropane	6.608	63	189717	47.65	ug/L	98
56) Dibromomethane	6.760	93	124030	47.86	ug/L	97
57) 1,4-Dioxane	6.845	88	74229	1017.07	ug/L	95
58) Methyl Methacrylate	6.888	69	170419	48.93	ug/L	100
59) Bromodichloromethane	7.022	83	230317	48.85	ug/L	99
60) 2-Nitropropane	7.333	41	121986	100.43	ug/L	100
61) 2-Chloroethylvinyl Ether	7.486	63	68776	44.46	ug/L	94
62) cis-1,3-Dichloropropene	7.626	75	289599	48.53	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	257773	52.54	ug/L	99
65) Toluene	8.022	91	754408	48.46	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	271521	49.68	ug/L	98
67) Ethyl Methacrylate	8.504	69	296757	49.64	ug/L	100
68) 1,1,2-Trichloroethane	8.528	97	183650	48.85	ug/L	99
71) Tetrachloroethene	8.668	164	151781	47.51	ug/L	98
72) 2-Hexanone	8.863	43	191827	52.62	ug/L	99
73) 1,3-Dichloropropane	8.711	76	304566	47.07	ug/L	98
74) Dibromochloromethane	8.961	129	199674	52.20	ug/L	98
75) N-Butyl Acetate	9.052	43	376423	51.95	ug/L	99
76) 1,2-Dibromoethane	9.058	107	191106	48.51	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	260368	46.05	ug/L	99
78) Chlorobenzene	9.607	112	500625	47.97	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	239526	46.80	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	187238	50.69	ug/L	99
81) Ethylbenzene	9.747	106	265865	48.88	ug/L	96
82) (m+p)Xylene	9.869	106	655521	98.75	ug/L	99
83) o-Xylene	10.247	106	320805	49.53	ug/L	100
84) Styrene	10.259	104	535258	48.90	ug/L	98
85) Bromoform	10.412	173	139299	50.92	ug/L	99
86) 2-Chlorobenzotrifluoride	10.515	180	254340	46.45	ug/L	97
87) Isopropylbenzene	10.607	105	830949	49.01	ug/L	100
88) Cyclohexanone	10.656	55	818465	981.76	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	64691	50.68	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.881	83	254067	52.65	ug/L	99
92) Bromobenzene	10.845	156	210469	47.12	ug/L	96
93) 1,2,3-Trichloropropane	10.900	110	81552	46.23	ug/L	93
94) n-Propylbenzene	10.979	91	958183	51.14	ug/L	98
95) 2-Chlorotoluene	11.034	91	565091	49.16	ug/L	100
96) 3-Chlorotoluene	11.089	91	547926	46.37	ug/L	99
97) 4-Chlorotoluene	11.131	91	639385	48.89	ug/L	100
98) 1,3,5-Trimethylbenzene	11.143	105	671017	48.70	ug/L	100
99) tert-Butylbenzene	11.418	119	589373	49.22	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	673023	49.38	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.534	214	201072	47.50	ug/L	99
102) sec-Butylbenzene	11.607	105	862524	50.67	ug/L	99
103) p-Isopropyltoluene	11.735	119	726014	49.57	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9869.D
 Acq On : 11 Sep 2019 7:10 pm
 Operator : F.NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 10:21:17 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	390953	47.95	ug/L	97
105) 1,4-Dclbenz	11.759	146	397585	47.98	ug/L	100
106) 2,4-Dichlorobenzotrifl...	11.826	214	179224	46.58	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.869	214	204651	47.45	ug/L	99
108) n-Butylbenzene	12.076	91	648492	51.06	ug/L	100
109) 1,2-Dclbenz	12.064	146	390054	49.16	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.698	157	64831	50.67	ug/L	99
111) Trielution Dichlorotol...	12.826	125	975730	144.24	ug/L	100
112) 1,3,5-Trichlorobenzene	12.875	180	279120	48.31	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	716686	97.22	ug/L	96
114) 1,2,4-Tcbenzene	13.362	180	289325	50.33	ug/L	99
115) Hexachlorobt	13.509	225	133211	50.73	ug/L	98
116) Naphthalen	13.551	128	856637	51.44	ug/L	100
117) 1,2,3-Tclbenzene	13.740	180	278851	49.71	ug/L	100
118) 2,4,5-Trichlorotoluene	14.332	159	189490	53.43	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	173979	46.40	ug/L	99

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

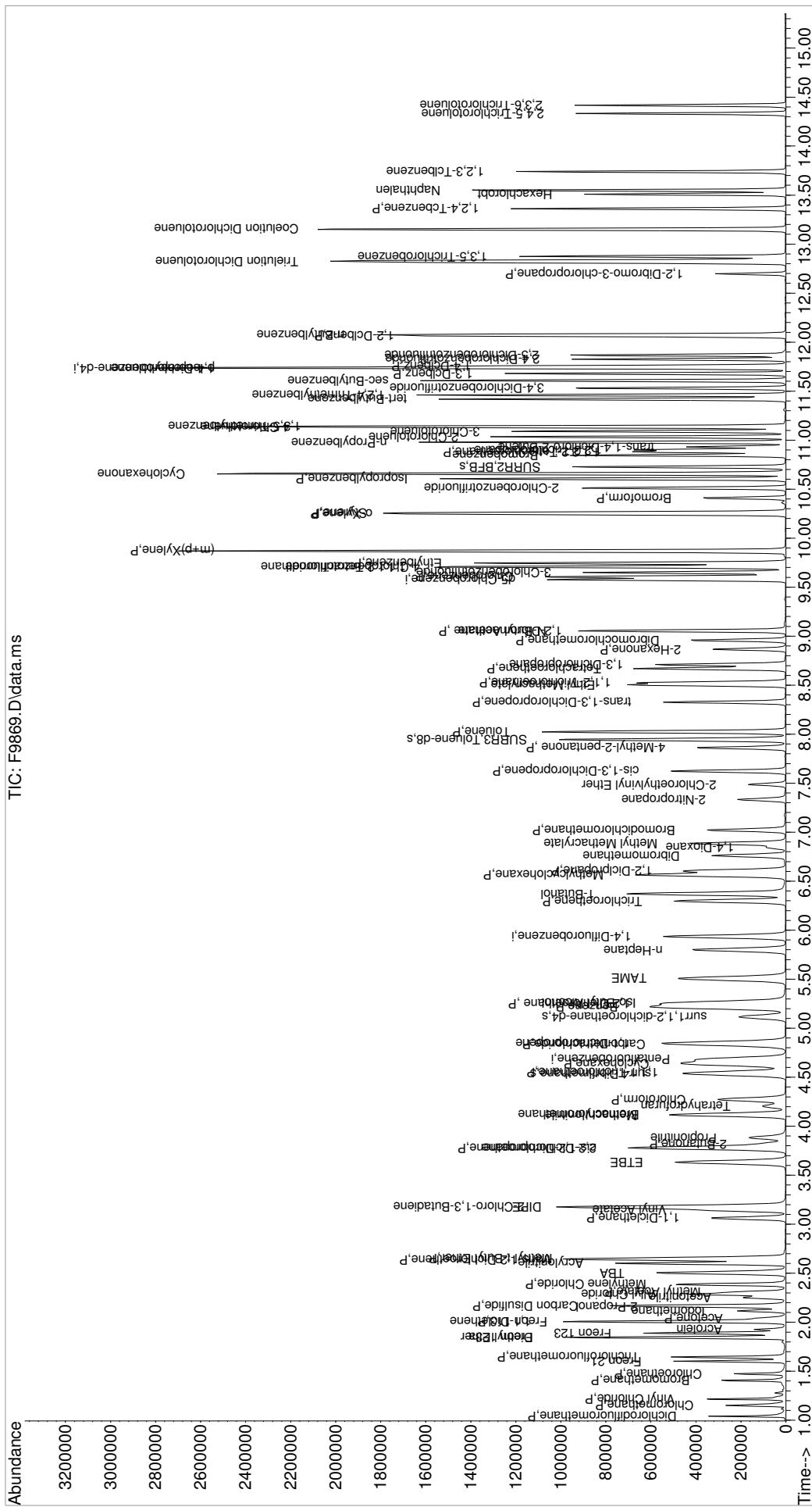
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\091119\
Data File	:	F9869.D
Acq On	:	11 Sep 2019 7:10 pm
Operator	:	F.NAEGLER
Sample	:	50 PPB ICV
Misc	:	
ALS Vial	:	13 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 16 10:21:17 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration

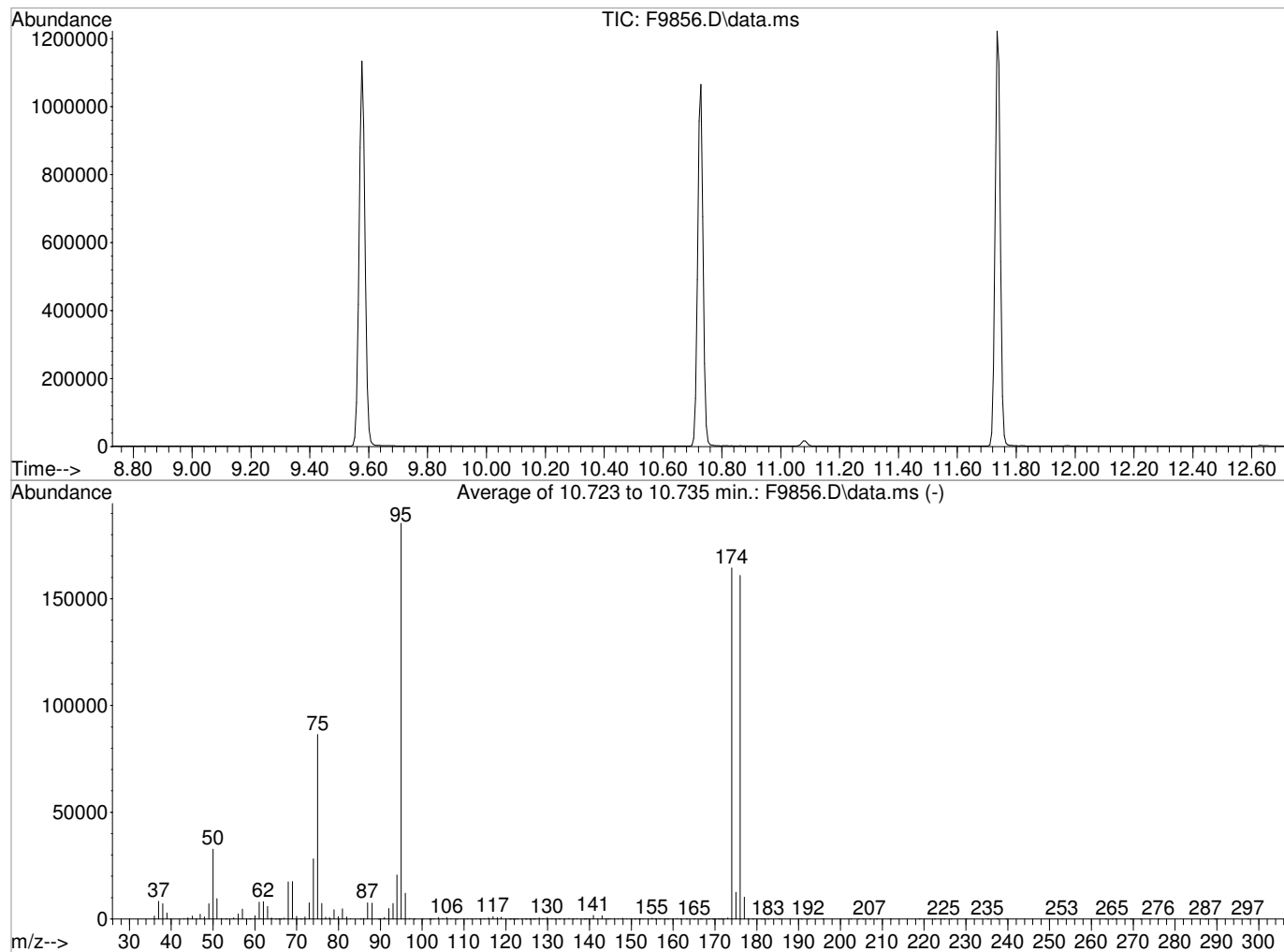


Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9856.D
Acq On : 11 Sep 2019 2:13 pm
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Title : MS#14 - 8260 WATERS 5mL Purge
Last Update : Thu Jun 06 08:55:16 2019



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	32664	PASS
75	95	30	60	46.6	86453	PASS
95	95	100	100	100.0	185351	PASS
96	95	5	9	6.5	12033	PASS
173	174	0.00	2	0.3	550	PASS
174	95	50	120	88.7	164426	PASS
175	174	5	9	7.6	12563	PASS
176	174	95	101	97.9	161003	PASS
177	176	5	9	6.4	10226	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9857.D
 Acq On : 11 Sep 2019 2:43 pm
 Operator : F.NAEGLER
 Sample : ICALBLK
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 10:19:49 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:11:19 2019
 Response via : Initial Calibration

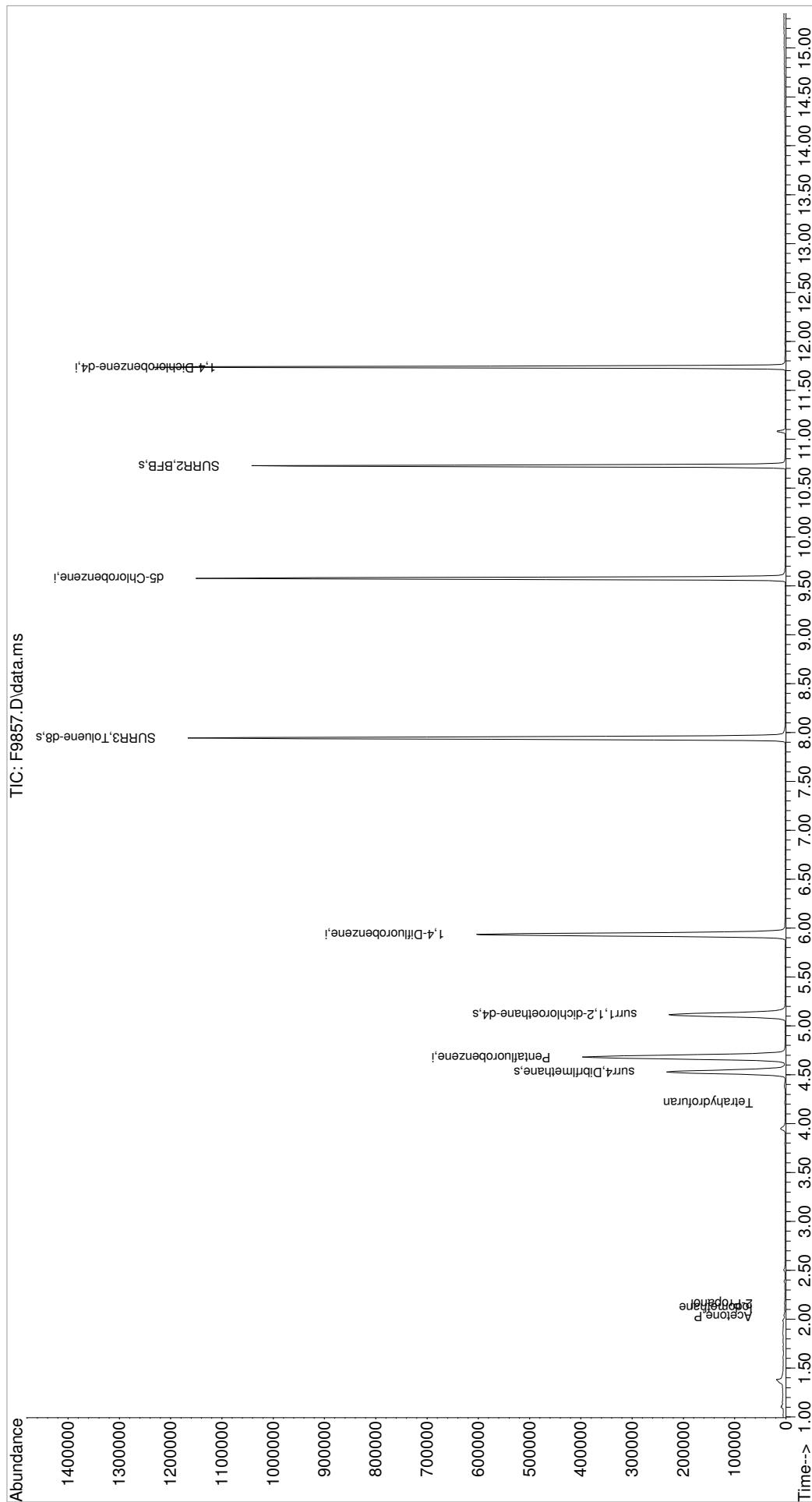
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

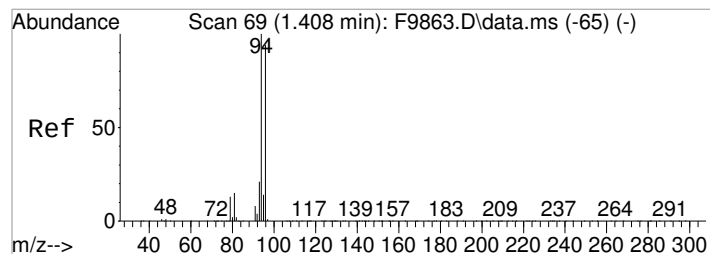
Internal Standards						
1) Pentafluorobenzene	4.681	168	409702	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	615827	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	523653	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	251517	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	192444	48.86	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	97.72%		
47) surr1,1,2-dichloroetha...	5.114	65	225934	49.08	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	98.16%		
64) SURR3,Toluene-d8	7.943	98	749938	49.24	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	98.48%		
69) SURR2,BFB	10.729	95	278938	48.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	96.96%		
Target Compounds						
5) Bromomethane	1.414	94	431	Below Cal	#	56
15) Acetone	2.035	43	963	0.40	ug/L	82
16) 2-Propanol	2.157	45	457	1.00	ug/L	# 11
17) Iodomethane	2.121	142	295	1.06	ug/L	# 63
38) Tetrahydrofuran	4.218	42	853	0.42	ug/L	96

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

Data Path : I:\ACQUDATA\MSV0A14\Data\0911119\
Data File : F9857.D
Acq On : 11 Sep 2019 2:43 pm
Operator : F.NAEGLER
Sample : ICALBLK
Misc :
ALS Vial : 1 Sample Multiplier: 1
Inst : MSV0A14

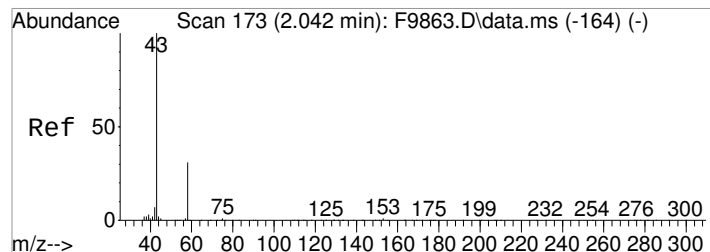
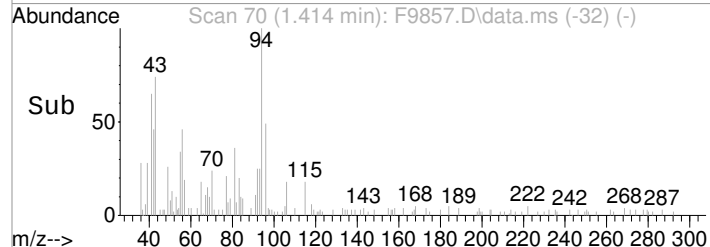
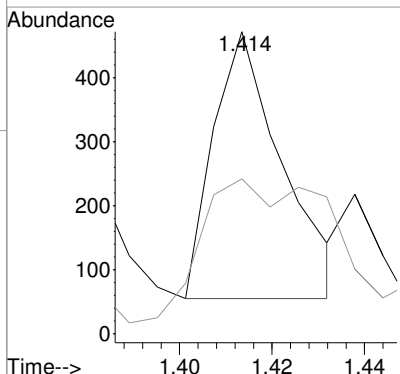
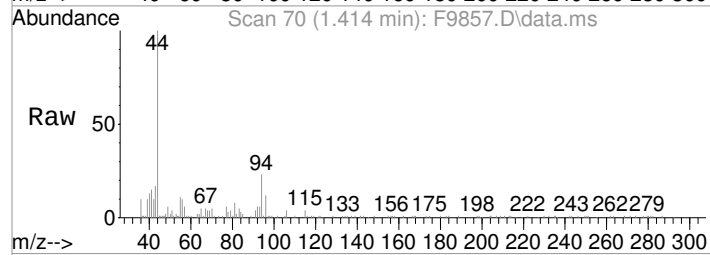
Quant Time: Sep 16 10:19:49 2019
Quant Method : I:\ACQUDATA\MSV0A14\Methods\w0911119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
Qlast Update : Mon Sep 16 09:11:19 2019
Response via : Initial Calibration





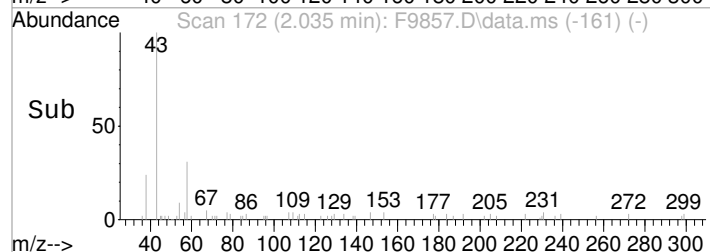
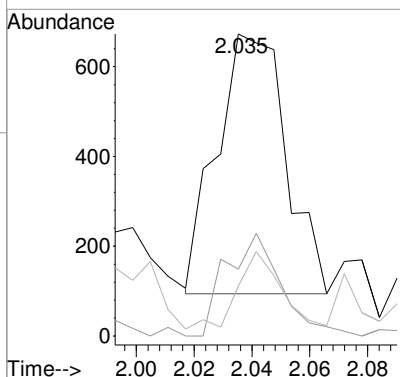
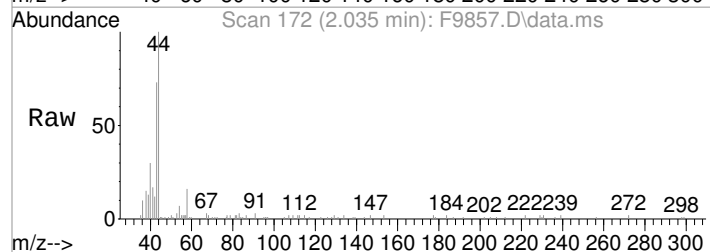
#5
 Bromomethane
 Concen: Below Cal
 RT: 1.414 min Scan# 70
 Delta R.T. 0.006 min
 Lab File: F9857.D
 Acq: 11 Sep 2019 2:43 pm

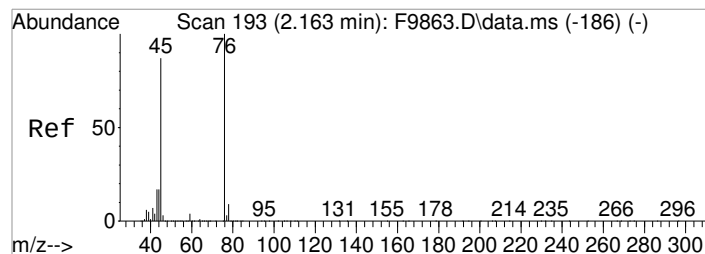
Tgt Ion: 94 Resp: 431
 Ion Ratio Lower Upper
 94 100
 96 51.3 74.2 114.2#



#15
 Acetone
 Concen: 0.40 ug/L
 RT: 2.035 min Scan# 172
 Delta R.T. -0.006 min
 Lab File: F9857.D
 Acq: 11 Sep 2019 2:43 pm

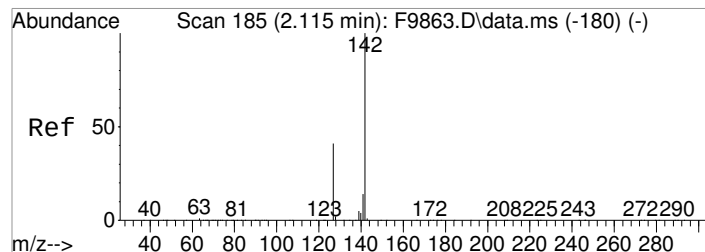
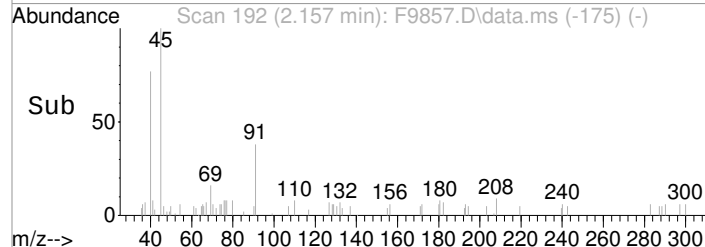
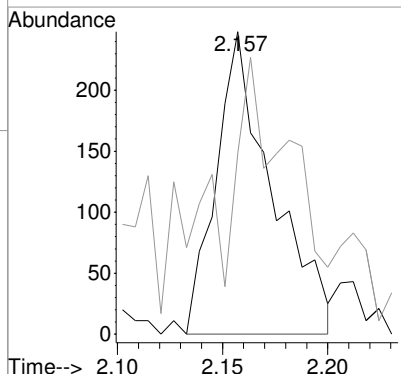
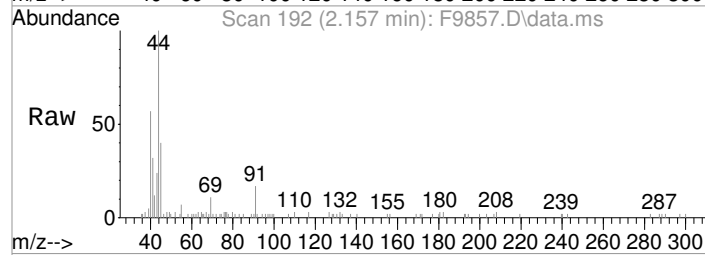
Tgt Ion: 43 Resp: 963
 Ion Ratio Lower Upper
 43 100
 58 22.1 10.7 50.7
 42 16.5 0.0 27.6





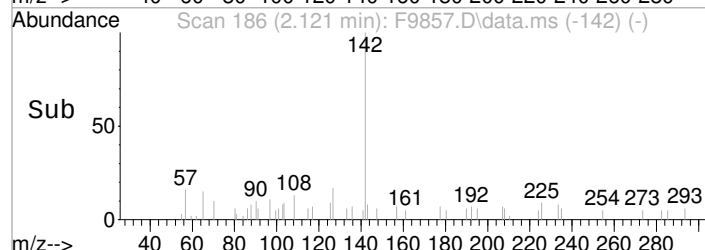
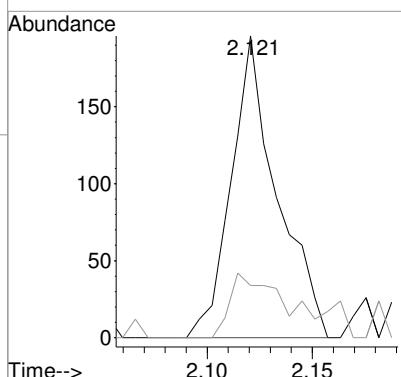
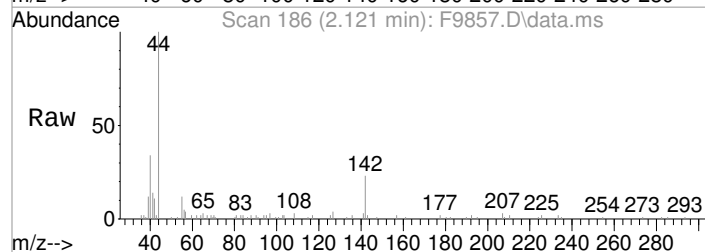
#16
 2-Propanol
 Concen: 1.00 ug/L
 RT: 2.157 min Scan# 192
 Delta R.T. -0.006 min
 Lab File: F9857.D
 Acq: 11 Sep 2019 2:43 pm

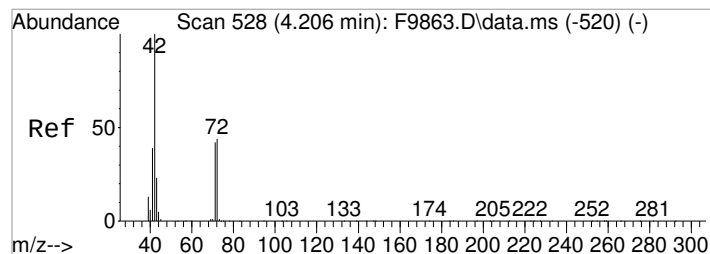
Tgt Ion: 45 Resp: 457
 Ion Ratio Lower Upper
 45 100
 43 59.7 0.0 39.2#



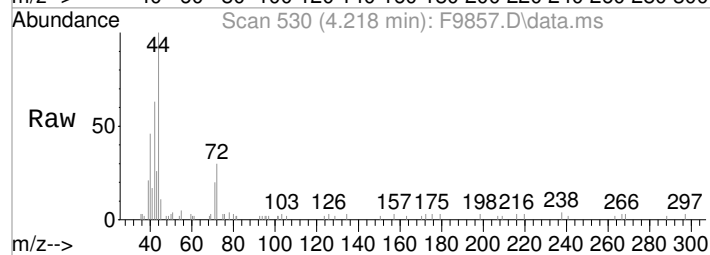
#17
 Iodomethane
 Concen: 1.06 ug/L
 RT: 2.121 min Scan# 186
 Delta R.T. 0.007 min
 Lab File: F9857.D
 Acq: 11 Sep 2019 2:43 pm

Tgt Ion: 142 Resp: 295
 Ion Ratio Lower Upper
 142 100
 127 17.3 20.6 60.6#

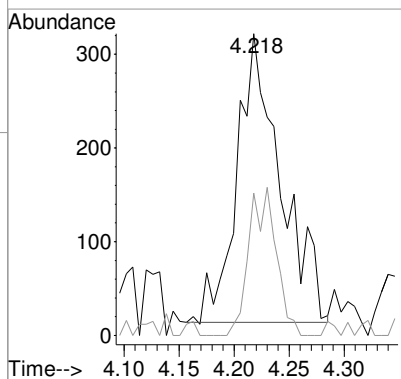
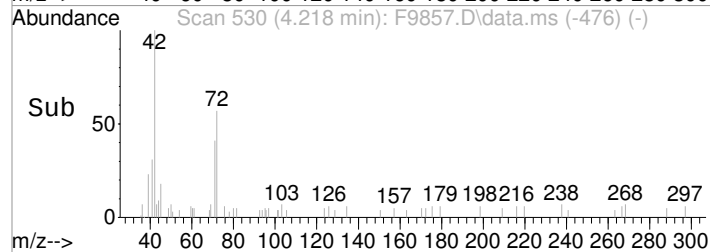




#38
 Tetrahydrofuran
 Concen: 0.42 ug/L
 RT: 4.218 min Scan# 530
 Delta R.T. 0.013 min
 Lab File: F9857.D
 Acq: 11 Sep 2019 2:43 pm



Tgt Ion: 42 Resp: 853
 Ion Ratio Lower Upper
 42 100
 72 47.2 24.4 64.4



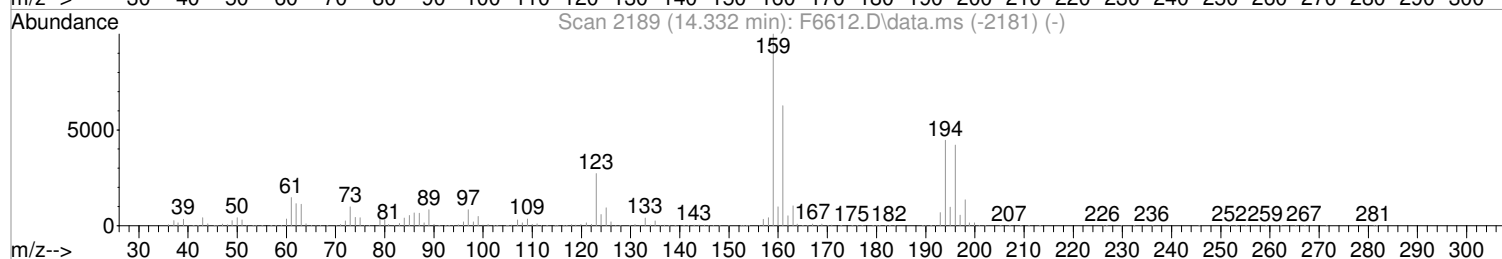
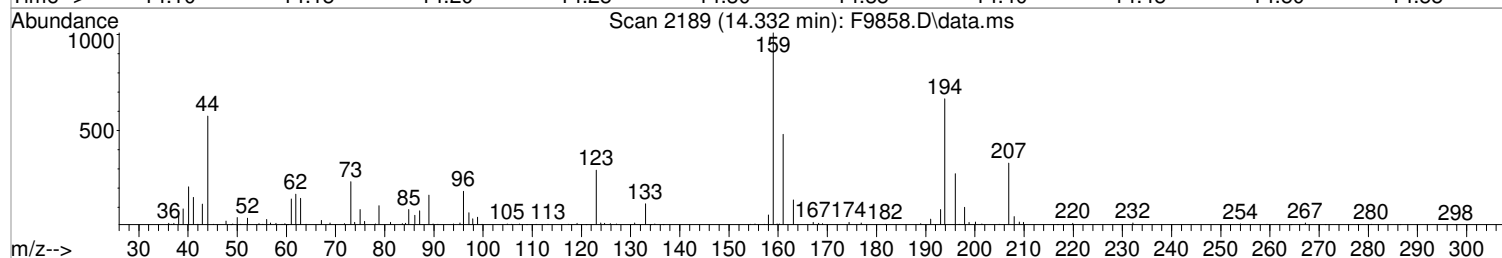
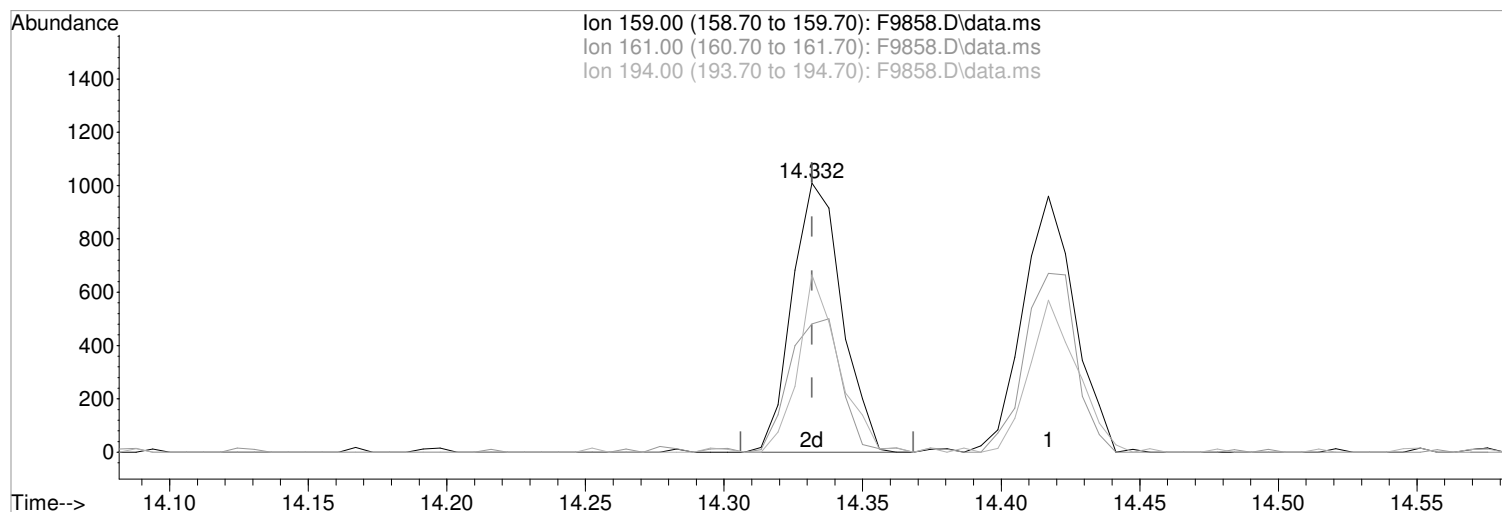
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(118) 2,4,5-Trichlorotoluene

14.332min (-0.000) 0.32 ug/L m

response 1258

Ion	Exp%	Act%

159.00	100	100

161.00	61.60	47.67

194.00	43.80	65.91#

0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

09/16/19

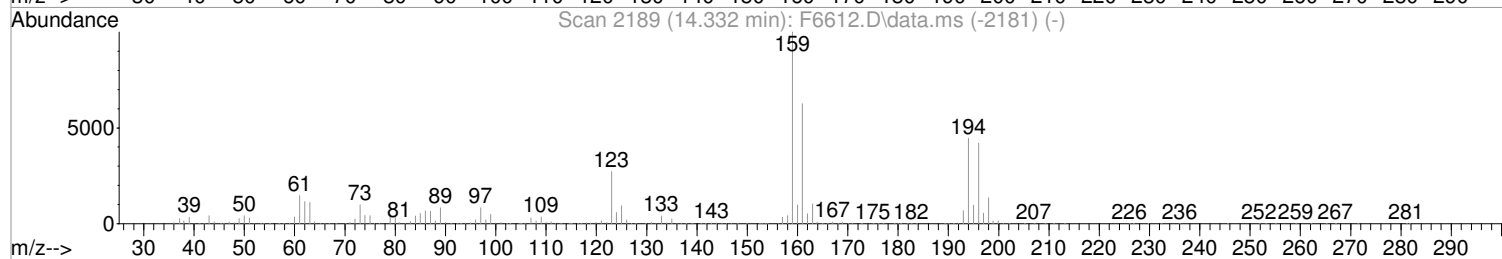
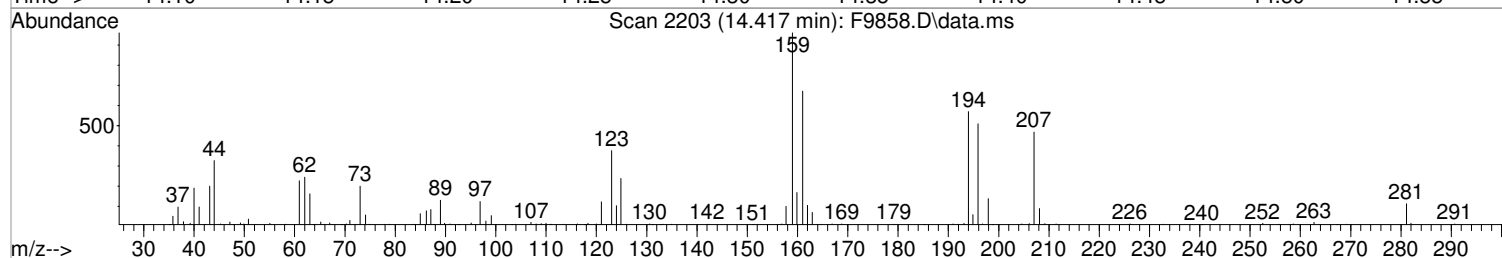
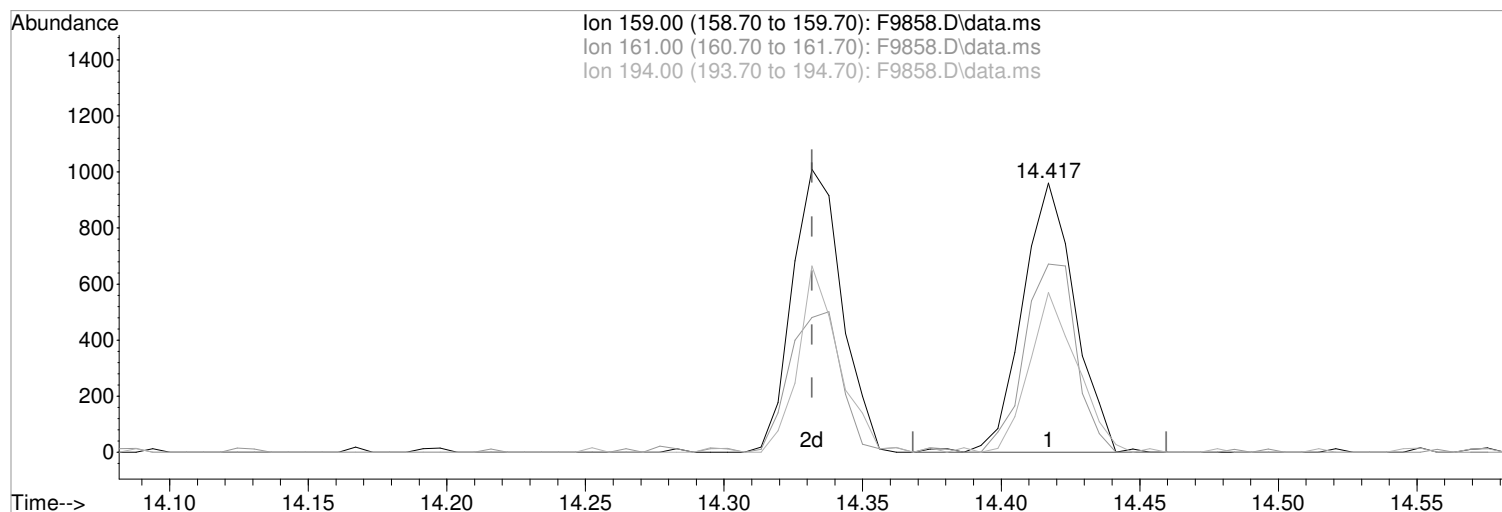
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(118) 2,4,5-Trichlorotoluene

Manual Integration:

14.417min (+0.085) 0.32 ug/L

Before

response 1266

Ion	Exp%	Act%

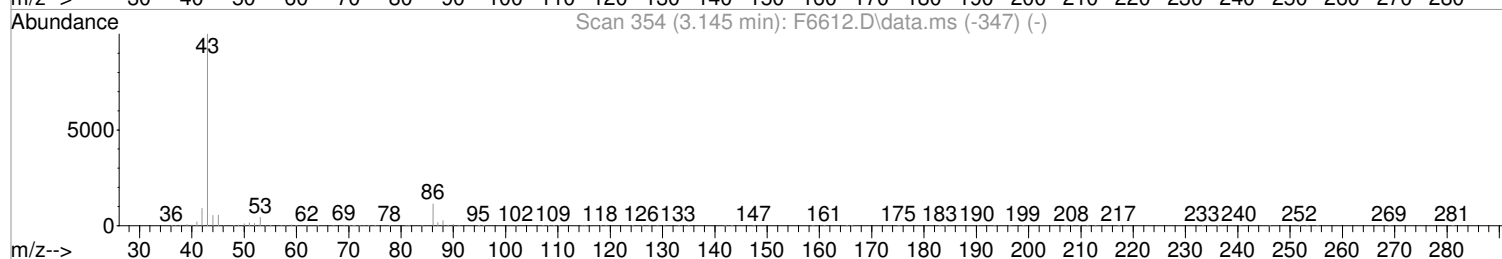
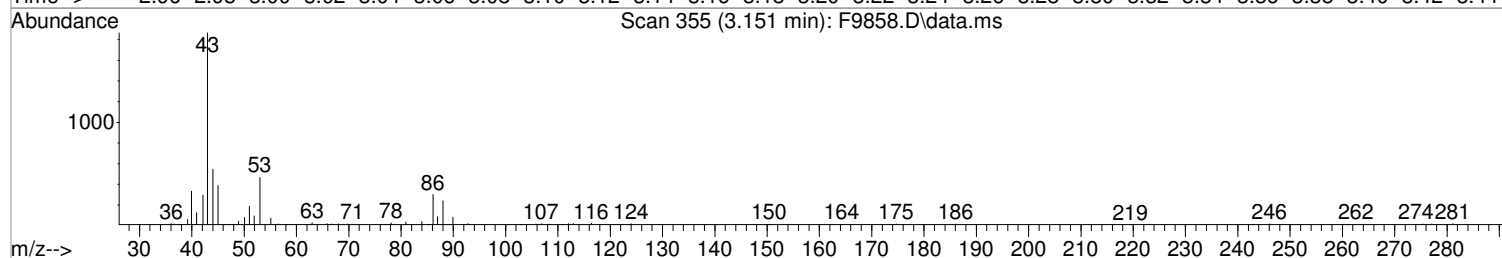
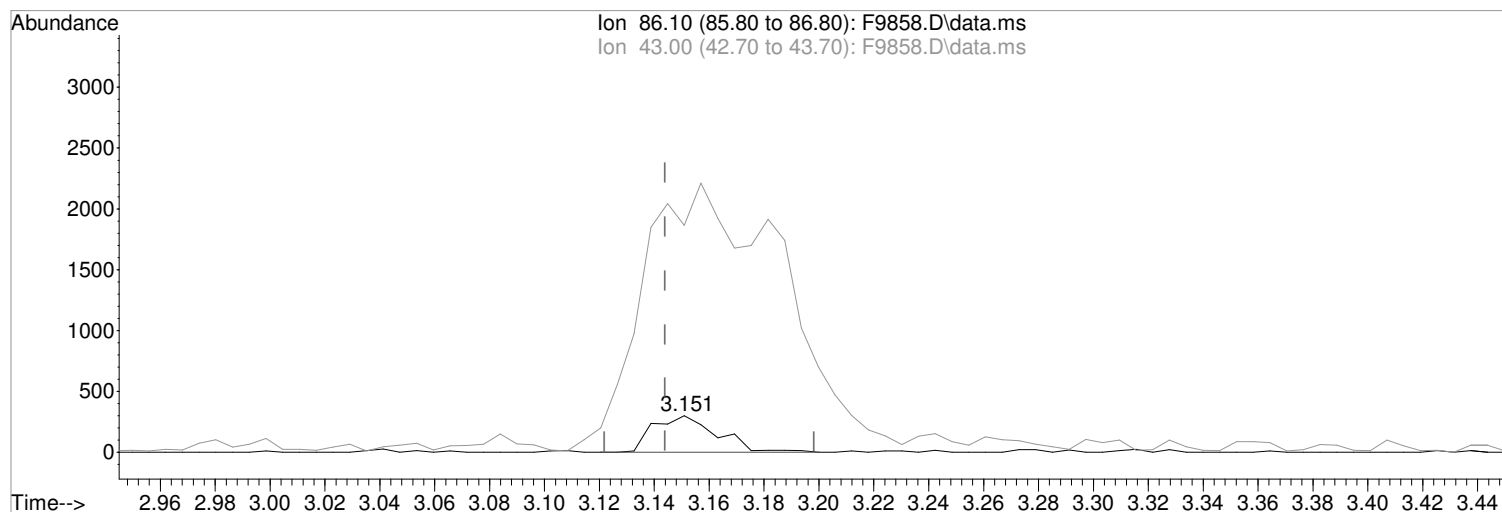
09/16/19

159.00	100	100
161.00	61.60	69.90
194.00	43.80	59.38
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(28) Vinyl Acetate

3.151min (+0.007) 0.71 ug/L m

response 487

Ion	Exp%	Act%
86.10	100	100
43.00	998.30	622.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

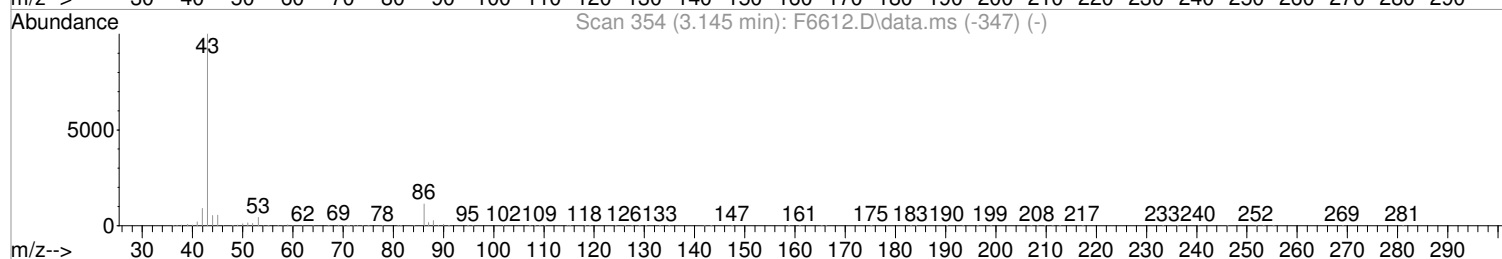
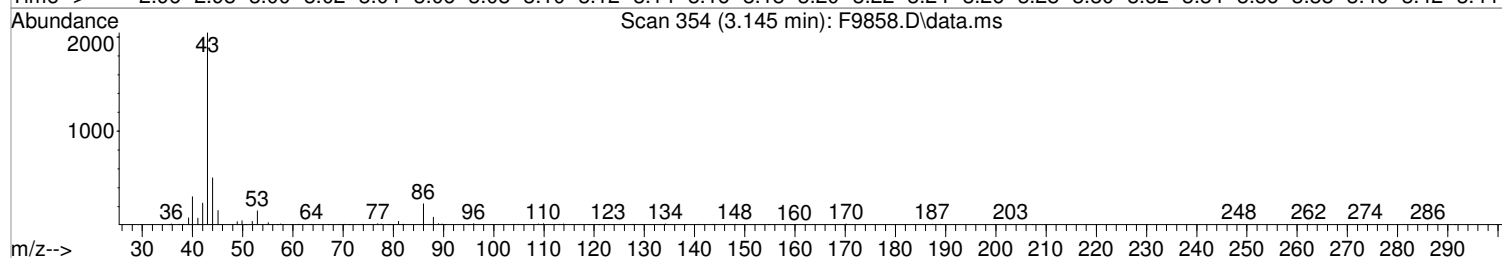
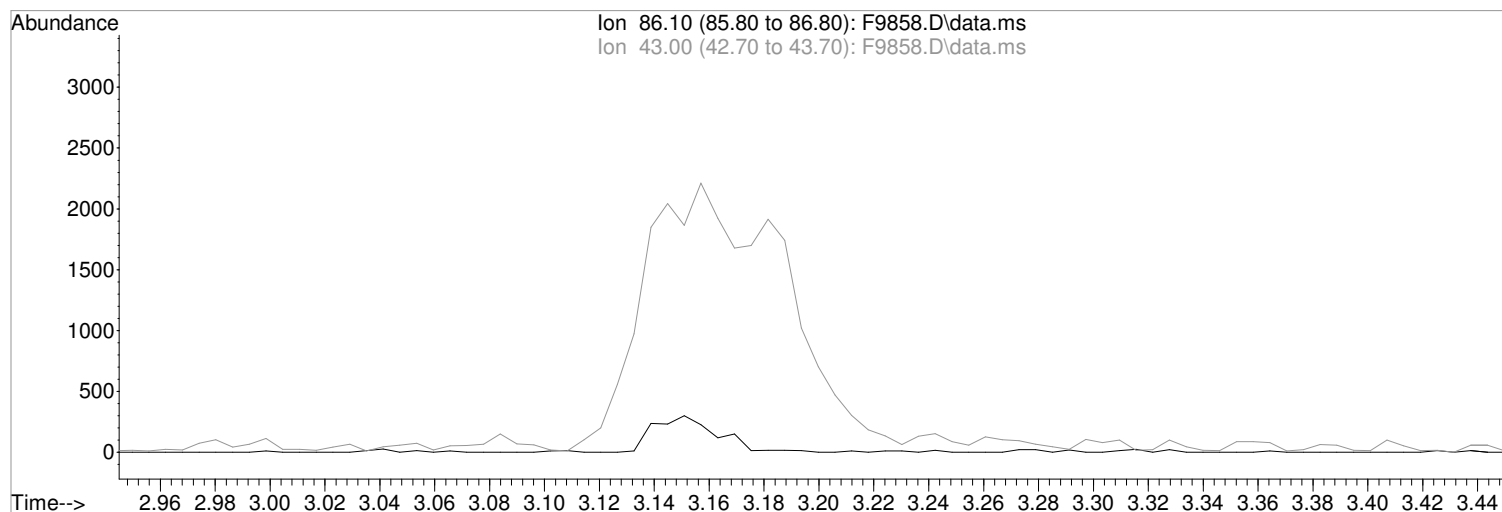
Poor integration.

09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(28) Vinyl Acetate

Manual Integration:

3.144min (-3.144) 0.00 ug/L

Before

response 0

Ion	Exp%	Act%
86.10	100	0.00
43.00	998.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

09/16/19

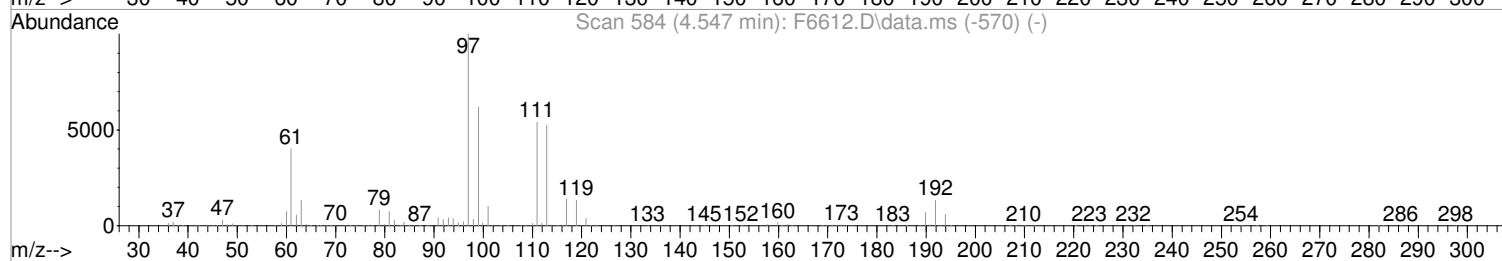
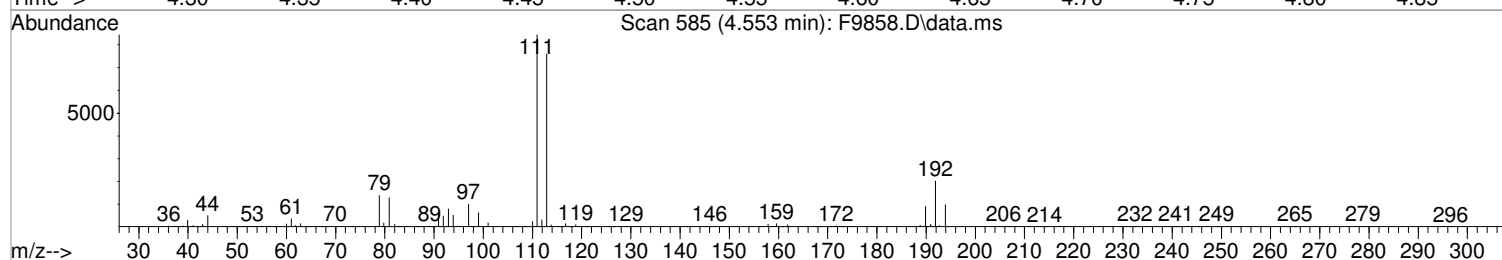
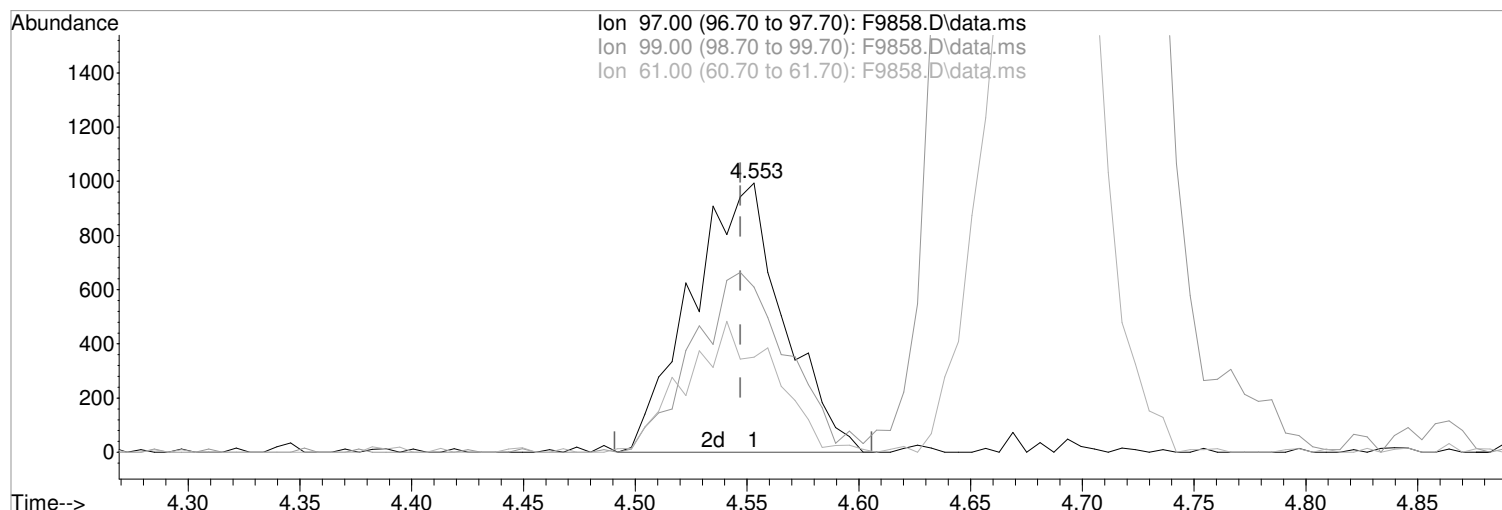
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.553min (+0.006) 0.55 ug/L m

response 2842

Ion	Exp%	Act%
97.00	100	100
99.00	66.00	61.43
61.00	44.00	35.35
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/16/19

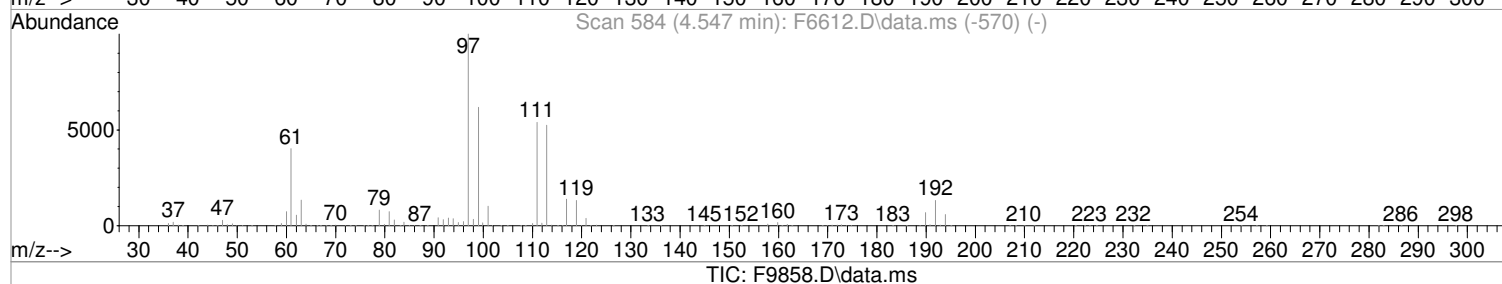
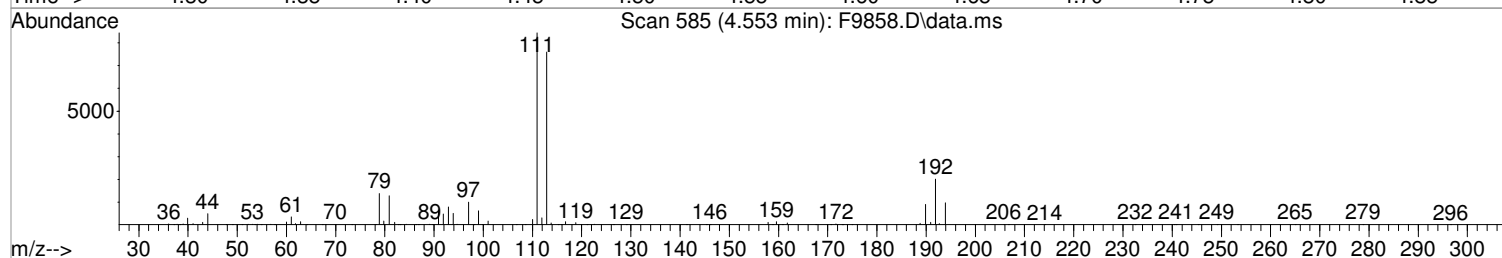
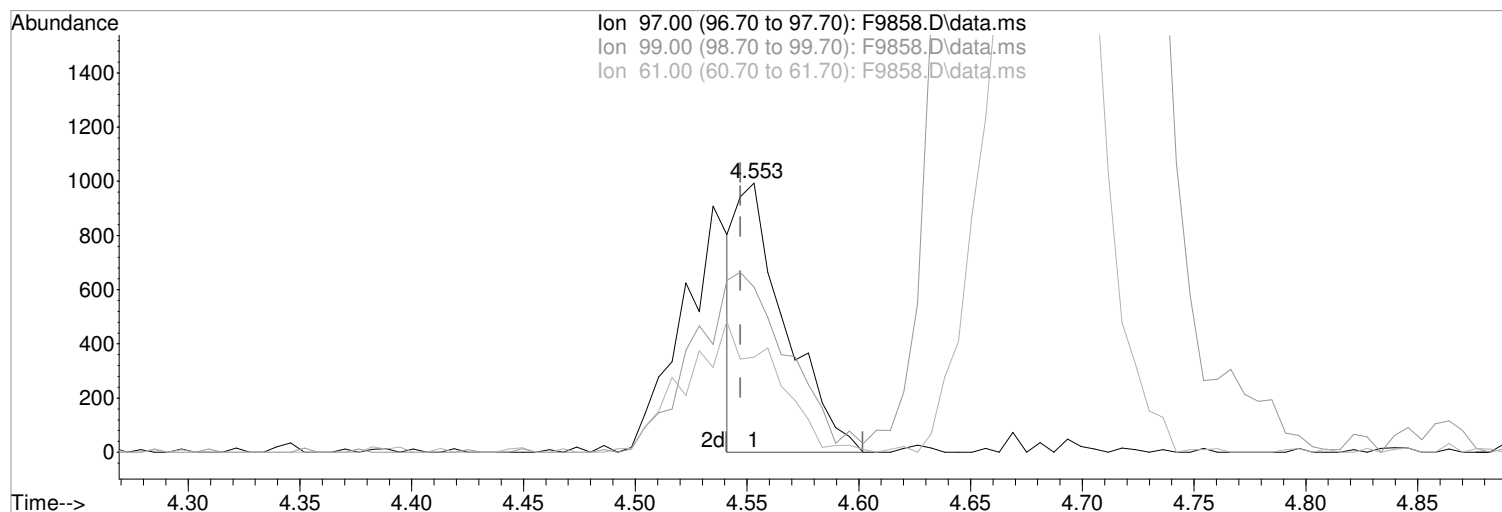
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



(40) 1,1,1-Trichloroethane (P)

Manual Integration:

4.553min (+0.006) 0.29 ug/L

Before

response 1515

Ion	Exp%	Act%
97.00	100	100
99.00	66.00	61.43
61.00	44.00	35.35
0.00	0.00	0.00

09/16/19

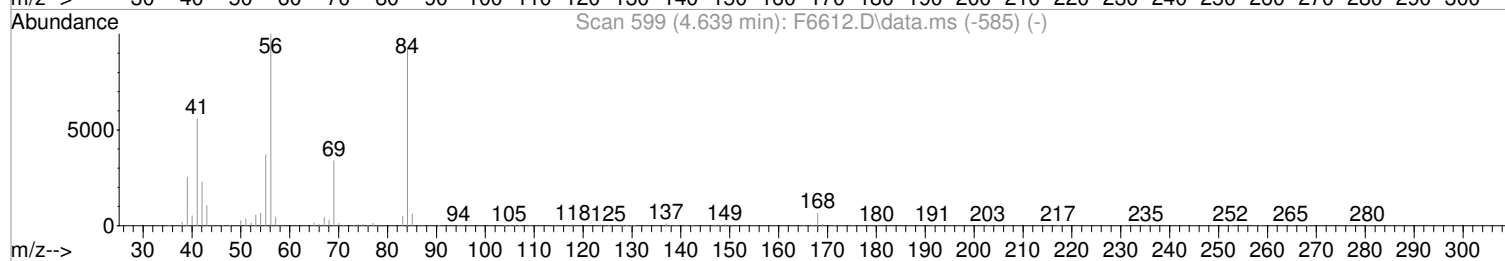
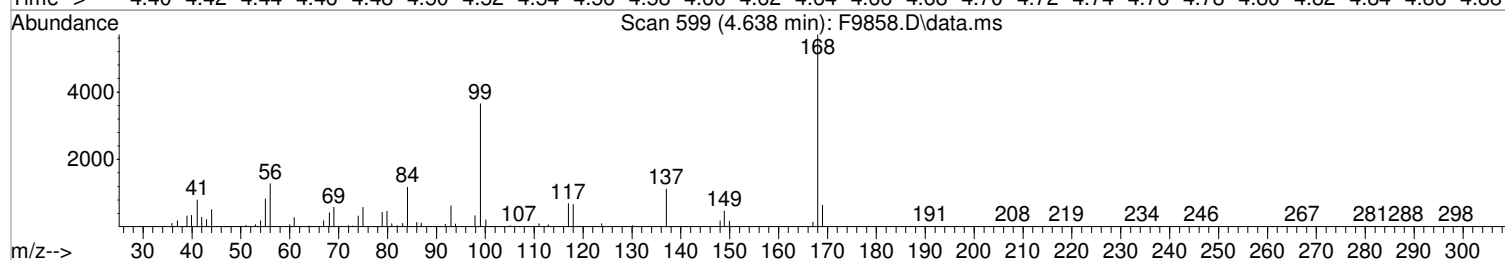
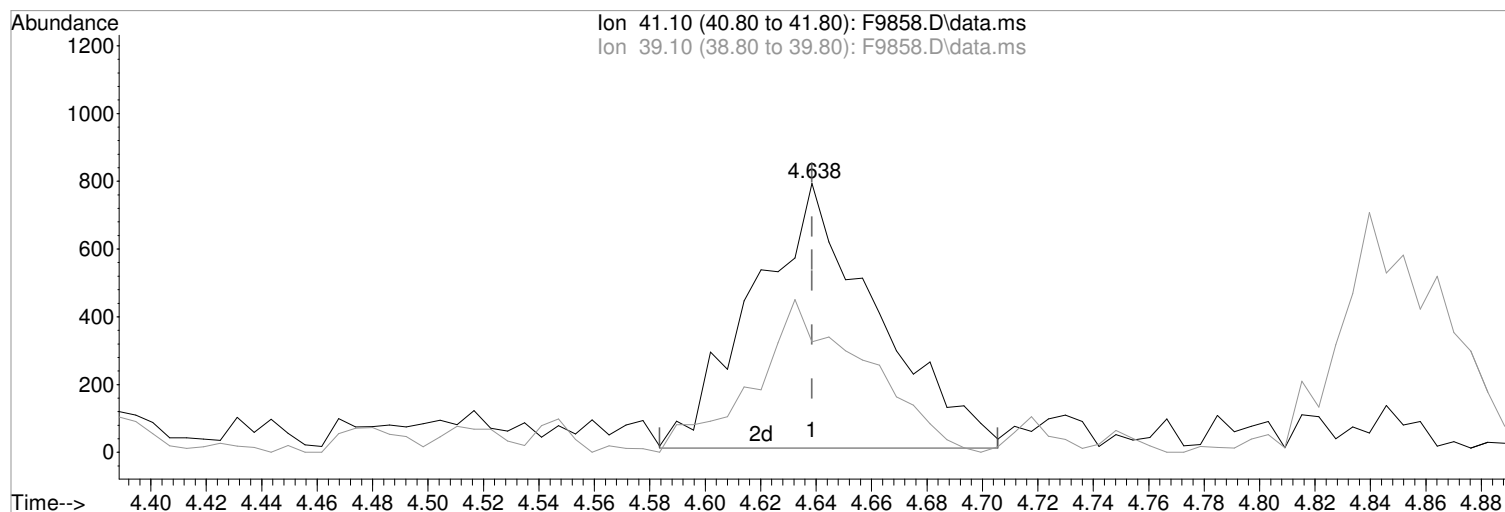
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(43) Cyclohexane (P)

4.638min (-0.000) 0.74 ug/L m

response 2404

Ion	Exp%	Act%
41.10	100	100
39.10	49.10	41.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/16/19

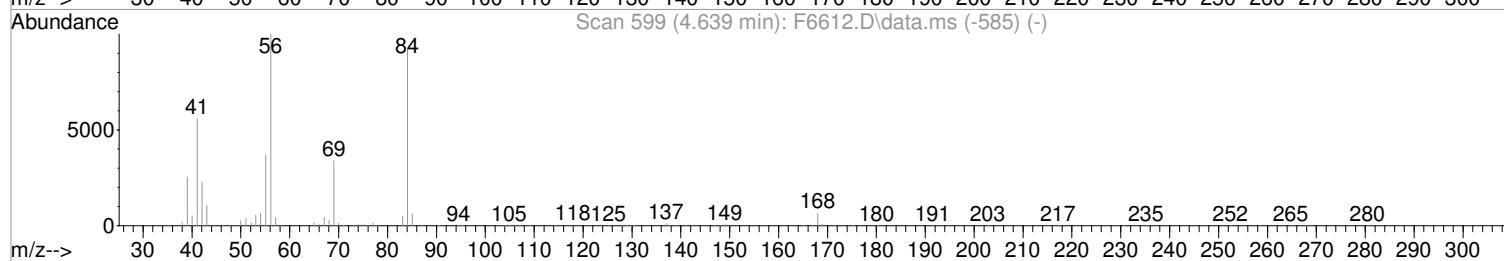
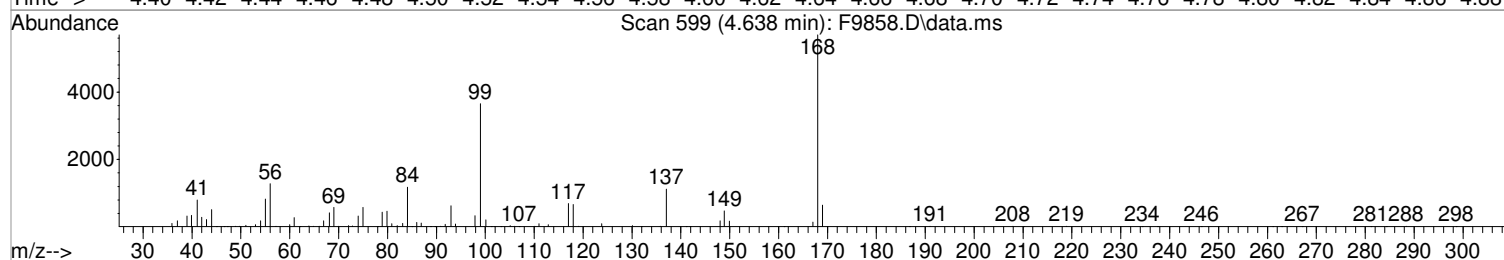
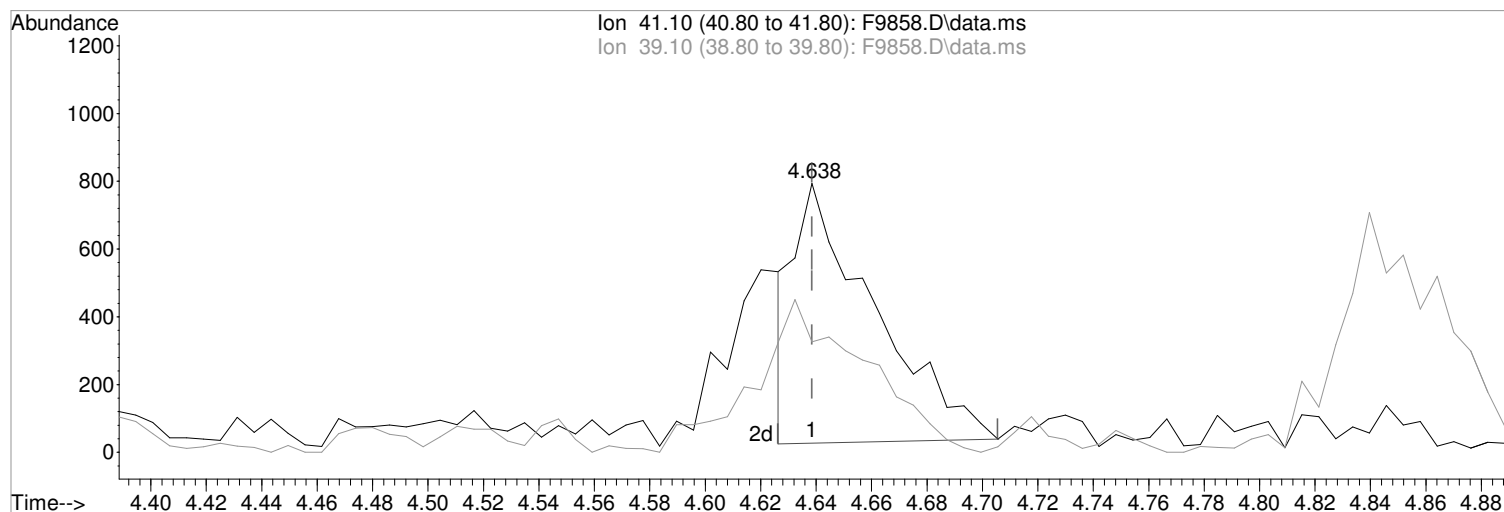
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(43) Cyclohexane (P)

Manual Integration:

4.638min (-0.000) 0.47 ug/L

Before

response 1535

Ion	Exp%	Act%
41.10	100	100
39.10	49.10	41.06
0.00	0.00	0.00
0.00	0.00	0.00

09/16/19

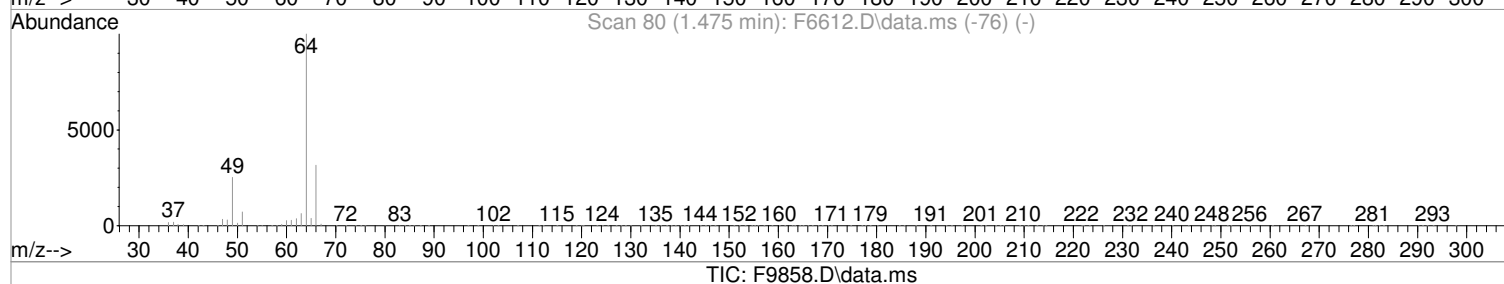
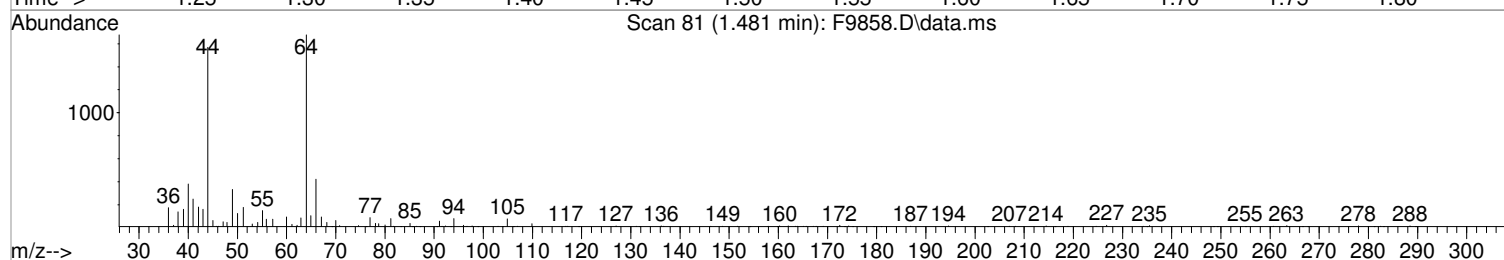
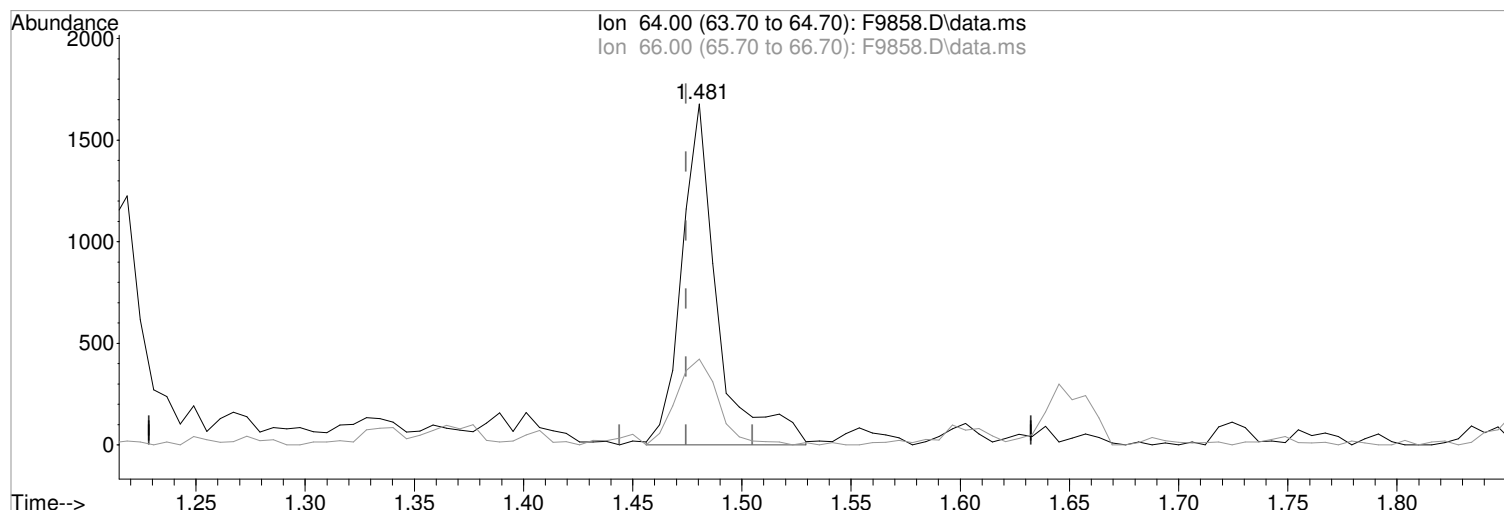
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



(6) Chloroethane (P)

1.481min (+0.006) 0.76 ug/L m

response 1899

Ion	Exp%	Act%
64.00	100	100
66.00	32.40	25.16
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

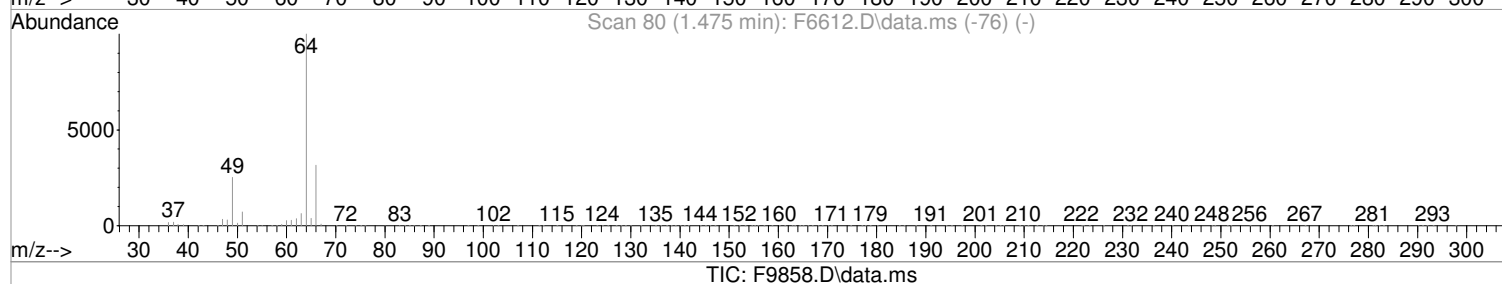
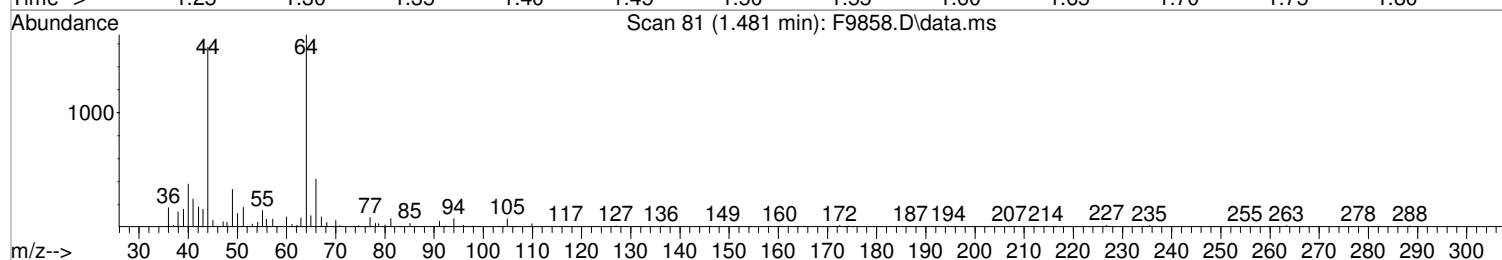
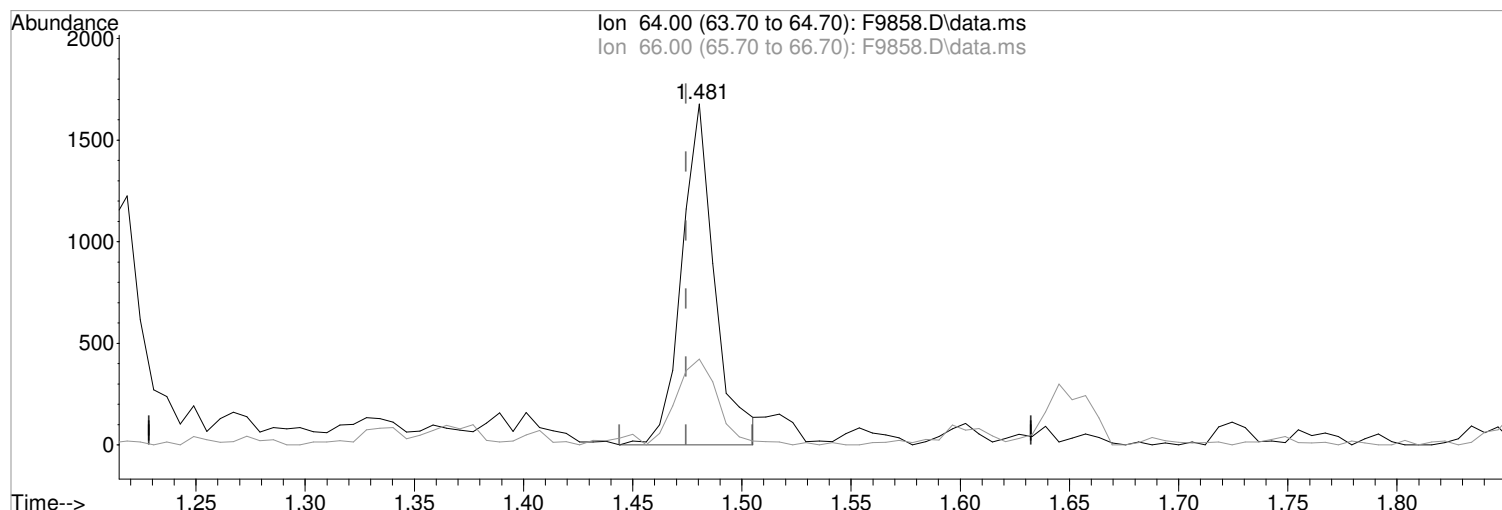
Poor integration.

09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



(6) Chloroethane (P)

Manual Integration:

1.481min (+0.006) 0.70 ug/L

Before

response 1759

Ion	Exp%	Act%
64.00	100	100
66.00	32.40	25.16
0.00	0.00	0.00
0.00	0.00	0.00

09/16/19

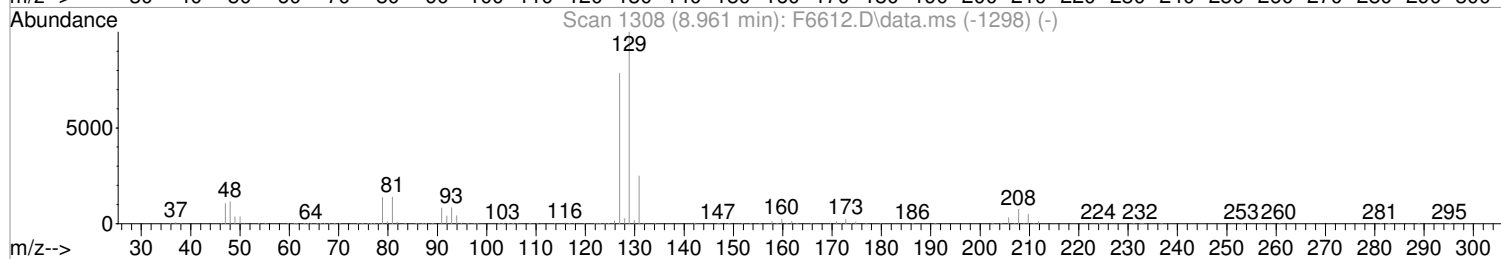
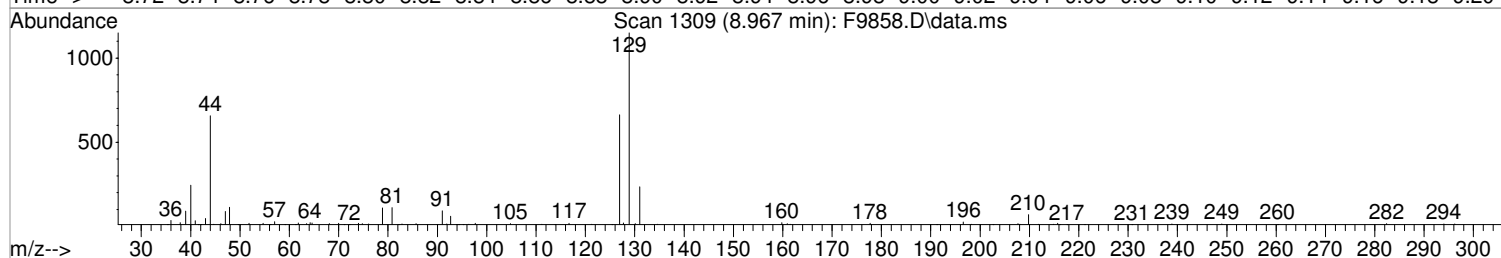
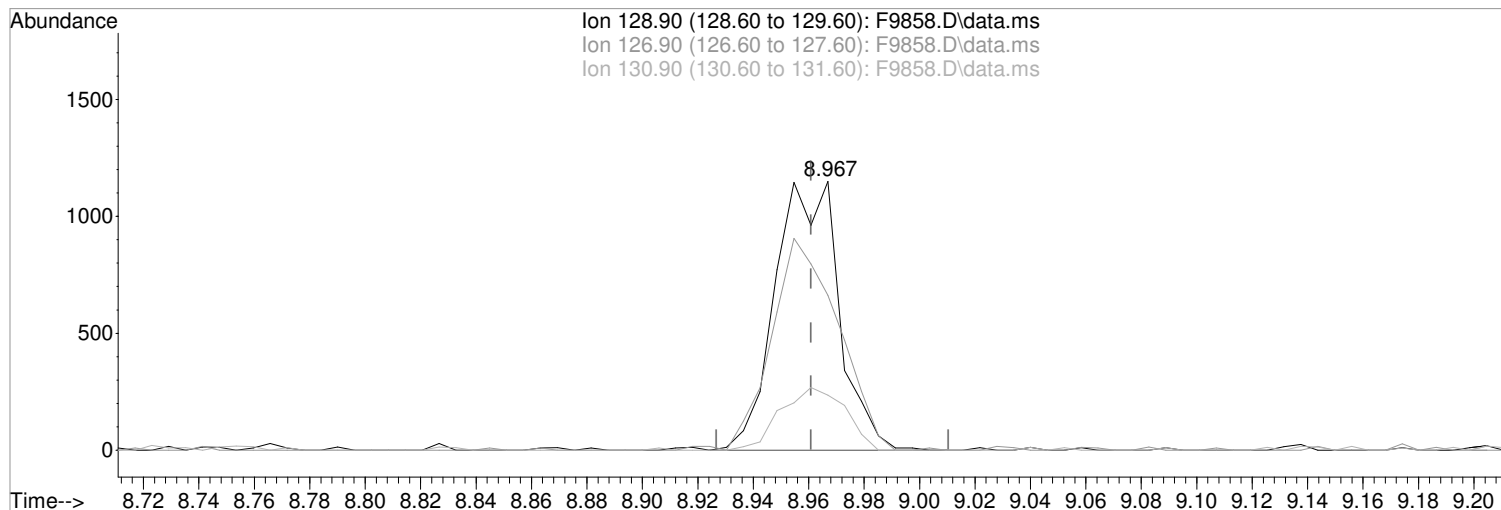
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(74) Dibromochloromethane (P)

8.967min (+0.006) 0.47 ug/L m

response 1831

Ion	Exp%	Act%
128.90	100	100
126.90	77.10	57.57
130.90	23.70	20.43
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

09/16/19

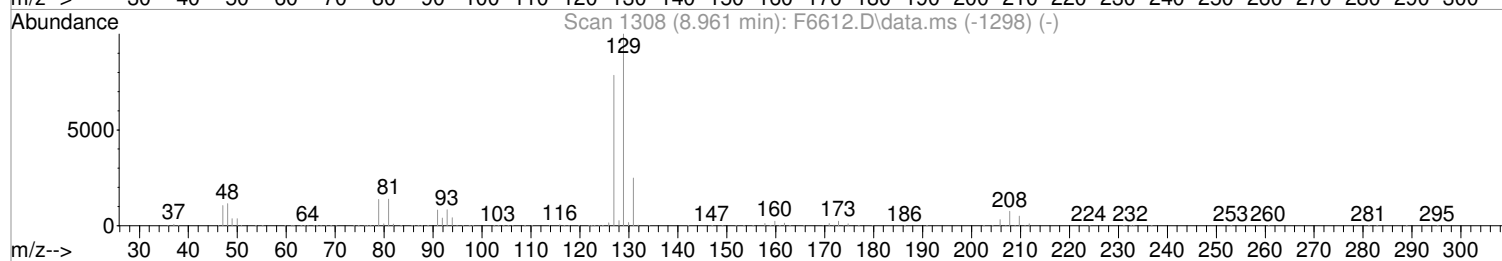
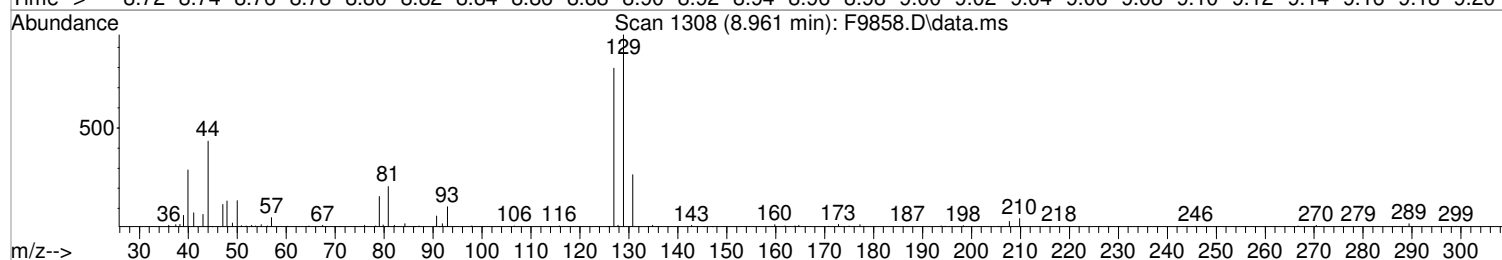
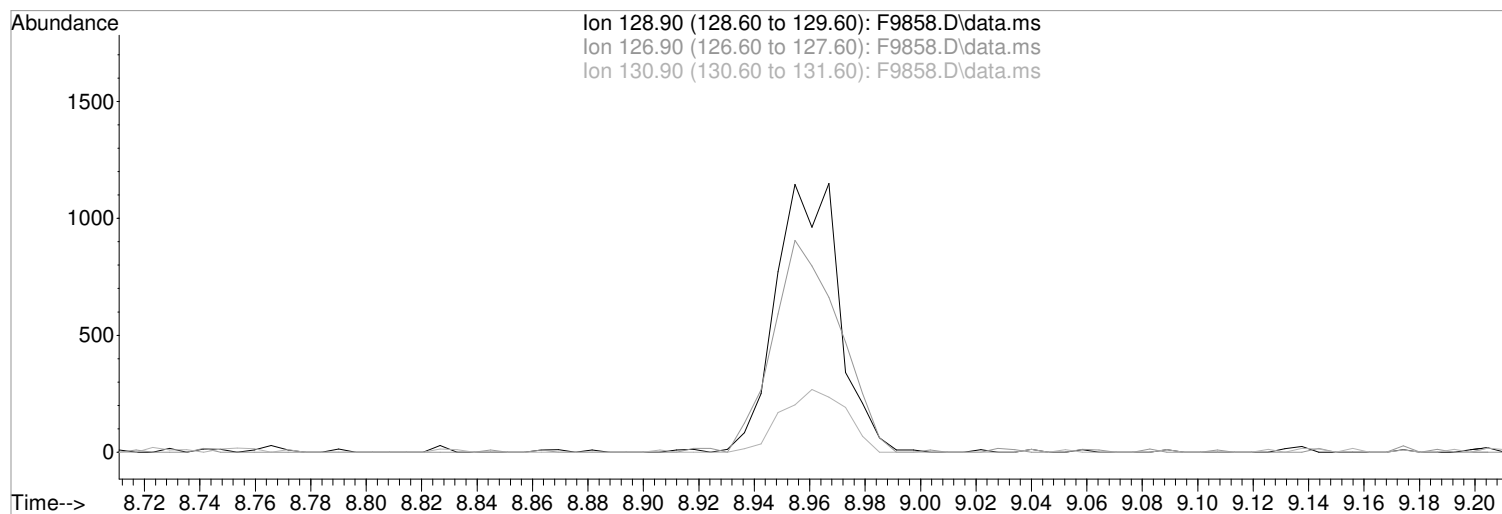
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9858.D
Acq On : 11 Sep 2019 3:05 pm
Operator : F.NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:51:07 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Thu Jun 06 08:55:16 2019
Response via : Initial Calibration



TIC: F9858.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

8.961min (-8.961) 0.00 ug/L

Before

response 0

Ion	Exp%	Act%

09/16/19

128.90	100	0.00

126.90	77.10	0.00#

130.90	23.70	0.00#

0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9858.D
 Acq On : 11 Sep 2019 3:05 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Thu Jun 06 08:55:16 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.681	168	405176	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	613987	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	531846	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	255582	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	43970	11.09	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.18%#
47) surr1,1,2-dichloroetha...	5.114	65	53146	10.94	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	21.88%#
64) SURR3,Toluene-d8	7.943	98	178945	11.81	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.62%#
69) SURR2,BFB	10.729	95	65624	11.24	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.48%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	2323	0.46	ug/L	87
3) Chloromethane	1.151	50	3034	0.74	ug/L	86
4) Vinyl Chloride	1.212	62	2763	0.65	ug/L	86
5) Bromomethane	1.413	94	2114	0.83	ug/L	87
6) Chloroethane	1.481	64	1899m	0.76	ug/L	
7) Freon 21	1.602	67	3816	0.60	ug/L	98
8) Trichlorofluoromethane	1.645	101	2915	0.54	ug/L	94
9) Diethyl Ether	1.846	59	2029	0.57	ug/L	91
10) Freon 123a	1.846	67	2788	0.71	ug/L	97
11) Freon 123	1.889	83	2807	0.62	ug/L	82
12) Acrolein	1.926	56	3111	3.01	ug/L	92
13) 1,1-Dicethene	2.005	96	1906	0.60	ug/L	86
14) Freon 113	2.017	101	1910	0.66	ug/L #	73
15) Acetone	2.041	43	1673	0.83	ug/L	86
16) 2-Propanol	2.157	45	4242	10.98	ug/L	89
17) Iodomethane	2.115	142	1489	0.41	ug/L	83
18) Carbon Disulfide	2.176	76	5908	0.70	ug/L	97
19) Acetonitrile	2.255	41	868	1.41	ug/L #	76
20) Allyl Chloride	2.285	76	1041	0.60	ug/L #	68
21) Methyl Acetate	2.310	43	1992	0.45	ug/L	86
22) Methylene Chloride	2.389	84	2761	0.66	ug/L	85
23) TBA	2.505	59	6874	10.26	ug/L	94
24) Acrylonitrile	2.602	53	5398	2.67	ug/L	96
25) Methyl-t-Butyl Ether	2.657	73	6896	0.55	ug/L	97
26) trans-1,2-Dichloroethene	2.645	96	2200	0.62	ug/L #	70
27) 1,1-Dicethane	3.059	63	3707	0.58	ug/L	96
28) Vinyl Acetate	3.151	86	487m	0.71	ug/L	
29) DIPE	3.181	45	6605	0.57	ug/L	83
30) 2-Chloro-1,3-Butadiene	3.175	53	3162	0.68	ug/L	88
31) ETBE	3.626	59	6339	0.55	ug/L	89
32) 2,2-Dichloropropane	3.779	77	2930	0.62	ug/L	89
33) cis-1,2-Dichloroethene	3.785	96	2101	0.52	ug/L	92
34) 2-Butanone	3.840	43	1572	0.56	ug/L	89
35) Propionitrile	3.901	54	2054	2.46	ug/L	71
36) Bromochloromethane	4.114	130	1538	0.53	ug/L	86
37) Methacrylonitrile	4.114	67	1312	0.60	ug/L	85
38) Tetrahydrofuran	4.224	42	2032	1.15	ug/L	90
39) Chloroform	4.279	83	4607	0.70	ug/L	91
40) 1,1,1-Trichloroethane	4.553	97	2842m	0.55	ug/L	

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9858.D
 Acq On : 11 Sep 2019 3:05 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Thu Jun 06 08:55:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	6279	0.56	ug/L	95
43) Cyclohexane	4.638	41	2404m	0.74	ug/L	
45) Carbontetrachloride	4.827	117	2725	0.63	ug/L	95
46) 1,1-Dichloropropene	4.846	75	2829	0.60	ug/L	95
48) Benzene	5.212	78	8232	0.55	ug/L	91
49) 1,2-Dichloroethane	5.254	62	2837	0.45	ug/L	90
50) Iso-Butyl Alcohol	5.248	43	3133	11.70	ug/L #	67
51) n-Heptane	5.803	43	2781	0.79	ug/L #	77
52) 1-Butanol	6.376	56	3194	17.64	ug/L	90
53) Trichloroethene	6.297	130	2473	0.55	ug/L	96
54) Methylcyclohexane	6.565	55	2950	0.69	ug/L #	85
55) 1,2-Dicloropropane	6.601	63	2191	0.55	ug/L	93
56) Dibromomethane	6.760	93	1521	0.52	ug/L #	81
57) 1,4-Dioxane	6.858	88	688	7.56	ug/L	77
58) Methyl Methacrylate	6.888	69	1810	0.51	ug/L #	76
59) Bromodichloromethane	7.016	83	2763	0.55	ug/L	95
60) 2-Nitropropane	7.333	41	1355	1.45	ug/L	100
61) 2-Chloroethylvinyl Ether	7.498	63	858	0.39	ug/L	73
62) cis-1,3-Dichloropropene	7.626	75	2933	0.48	ug/L	97
63) 4-Methyl-2-pentanone	7.857	43	2728	0.51	ug/L	87
65) Toluene	8.028	91	8333	0.52	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	2534	0.47	ug/L	90
67) Ethyl Methacrylate	8.504	69	2925	0.53	ug/L	80
68) 1,1,2-Trichloroethane	8.528	97	2107	0.49	ug/L	85
71) Tetrachloroethene	8.668	164	1772	0.57	ug/L	88
72) 2-Hexanone	8.869	43	2054	0.53	ug/L	84
73) 1,3-Dichloropropane	8.711	76	3536	0.51	ug/L	88
74) Dibromochloromethane	8.967	129	1831m	0.47	ug/L	
75) N-Butyl Acetate	9.052	43	3476	0.50	ug/L	93
76) 1,2-Dibromoethane	9.058	107	2094	0.48	ug/L	98
77) 3-Chlorobenzotrifluoride	9.650	180	3046	0.52	ug/L	96
78) Chlorobenzene	9.607	112	5778	0.54	ug/L	95
79) 4-Chlorobenzotrifluoride	9.711	180	2814	0.54	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.705	131	1911	0.53	ug/L	90
81) Ethylbenzene	9.741	106	2965	0.56	ug/L	90
82) (m+p)Xylene	9.869	106	6988	1.06	ug/L	97
83) o-Xylene	10.247	106	3394	0.52	ug/L #	81
84) Styrene	10.265	104	5422	0.48	ug/L	92
85) Bromoform	10.412	173	1078	0.40	ug/L	71
86) 2-Chlorobenzotrifluoride	10.515	180	3010	0.53	ug/L	84
87) Isopropylbenzene	10.607	105	8736	0.54	ug/L	96
88) Cyclohexanone	10.656	55	7081	7.41	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.936	53	607	0.45	ug/L #	72
91) 1,1,2,2-Tetrachloroethane	10.881	83	2372	0.46	ug/L	99
92) Bromobenzene	10.851	156	2244	0.52	ug/L	94
93) 1,2,3-Trichloropropane	10.899	110	916	0.49	ug/L #	89
94) n-Propylbenzene	10.979	91	9430	0.58	ug/L	94
95) 2-Chlorotoluene	11.034	91	5551	0.54	ug/L	88
96) 3-Chlorotoluene	11.088	91	6275	0.57	ug/L	96
97) 4-Chlorotoluene	11.131	91	6701	0.56	ug/L	95
98) 1,3,5-Trimethylbenzene	11.137	105	6971	0.59	ug/L	92
99) tert-Butylbenzene	11.418	119	6288	0.61	ug/L	97
100) 1,2,4-Trimethylbenzene	11.460	105	6716	0.56	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.533	214	2285	0.57	ug/L	92
102) sec-Butylbenzene	11.607	105	8222	0.56	ug/L	94
103) p-Isopropyltoluene	11.735	119	7143	0.57	ug/L	81

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9858.D
 Acq On : 11 Sep 2019 3:05 pm
 Operator : F.NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:16 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Thu Jun 06 08:55:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	4202	0.54	ug/L	96
105) 1,4-Dclbenz	11.753	146	4297	0.53	ug/L	73
106) 2,4-Dichlorobenzotrifl...	11.826	214	1855	0.50	ug/L	90
107) 2,5-Dichlorobenzotrifl...	11.869	214	2371	0.57	ug/L	92
108) n-Butylbenzene	12.076	91	5950	0.57	ug/L	96
109) 1,2-Dclbenz	12.064	146	3930	0.50	ug/L	92
110) 1,2-Dibromo-3-chloropr...	12.698	157	618	0.51	ug/L	90
111) Trielution Dichlorotol...	12.832	125	9847	1.52	ug/L	93
112) 1,3,5-Trichlorobenzene	12.875	180	2732	0.47	ug/L	88
113) Coelution Dichlorotoluene	13.155	125	6838	0.94	ug/L	95
114) 1,2,4-Tcbenzene	13.362	180	2919	0.52	ug/L	90
115) Hexachlorobt	13.515	225	1242	0.56	ug/L #	73
116) Naphthalen	13.551	128	7107	0.41	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	2568	0.44	ug/L	91
118) 2,4,5-Trichlorotoluene	14.332	159	1258m	0.32	ug/L	
119) 2,3,6-Trichlorotoluene	14.417	159	1266	0.31	ug/L	90

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

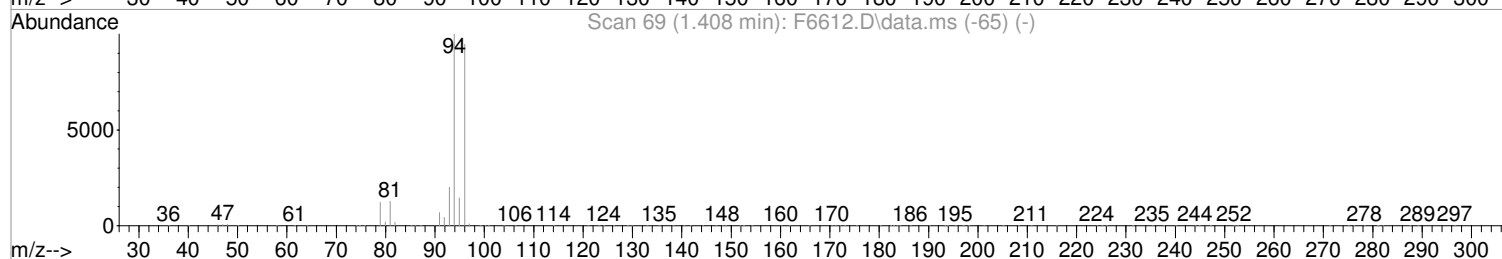
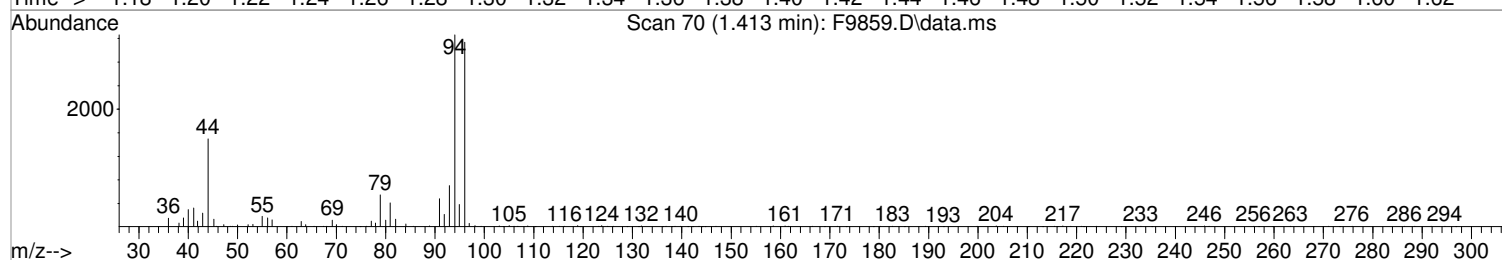
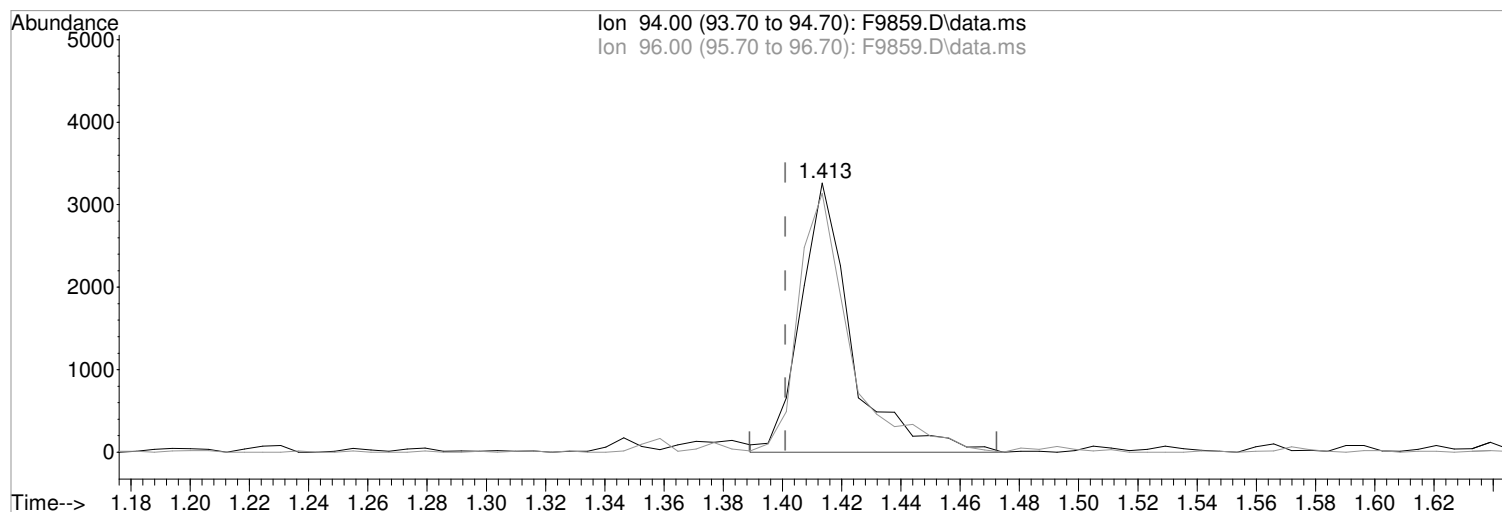
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9859.D
Acq On : 11 Sep 2019 3:27 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:40 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 08:54:30 2019
Response via : Initial Calibration



TIC: F9859.D\data.ms

(5) Bromomethane (P)

1.413min (+0.012) 1.42 ug/L m

response 3890

Ion	Exp%	Act%
94.00	100	100
96.00	94.90	96.23
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/16/19

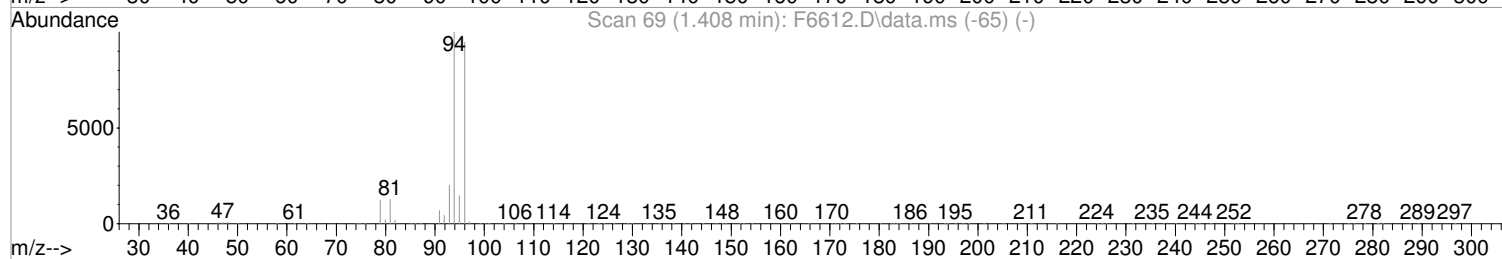
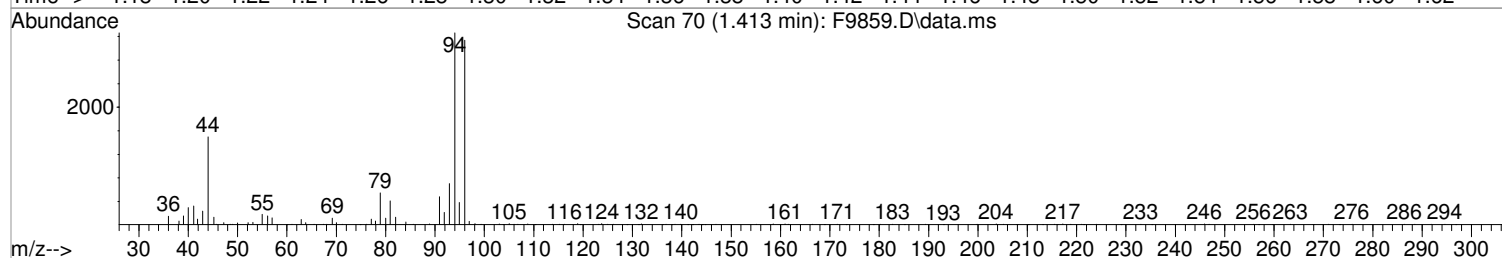
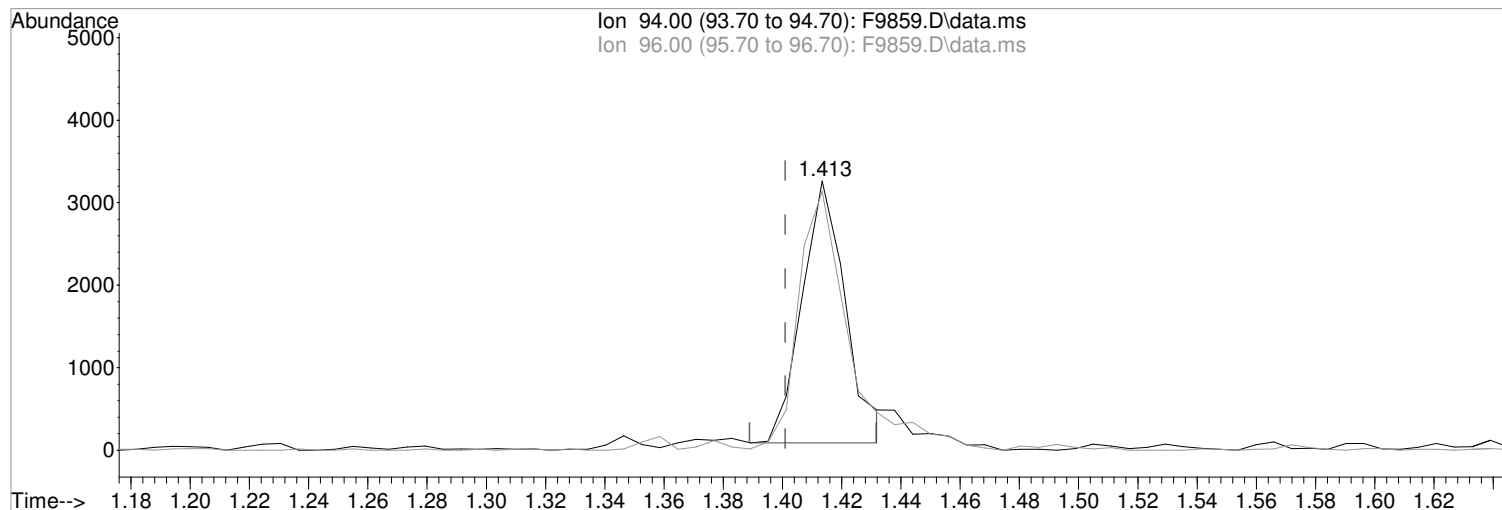
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9859.D
Acq On : 11 Sep 2019 3:27 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:40 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 08:54:30 2019
Response via : Initial Calibration



TIC: F9859.D\data.ms

(5) Bromomethane (P)

Manual Integration:

1.413min (+0.012) 1.18 ug/L

Before

response 3227

Ion	Exp%	Act%
94.00	100	100
96.00	94.90	96.23
0.00	0.00	0.00
0.00	0.00	0.00

09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9859.D
 Acq On : 11 Sep 2019 3:27 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:54:30 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	397987	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	598954	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.576	117	517919	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	248873	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	41930	10.84	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.68%#
47) surr1,1,2-dichloroetha...	5.114	65	50070	10.56	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	21.12%#
64) SURR3,Toluene-d8	7.949	98	165076	11.17	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	22.34%#
69) SURR2,BFB	10.729	95	59639	10.48	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	20.96%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	4187	0.84	ug/L	97
3) Chloromethane	1.151	50	5573	1.31	ug/L	98
4) Vinyl Chloride	1.218	62	5203	1.18	ug/L	100
5) Bromomethane	1.413	94	3890m	1.42	ug/L	
6) Chloroethane	1.481	64	2930	1.12	ug/L	91
7) Freon 21	1.602	67	7079	1.10	ug/L	88
8) Trichlorofluoromethane	1.651	101	5593	1.03	ug/L	94
9) Diethyl Ether	1.846	59	3748	1.06	ug/L	96
10) Freon 123a	1.846	67	4925	1.21	ug/L	95
11) Freon 123	1.889	83	5422	1.18	ug/L	90
12) Acrolein	1.926	56	5776	5.46	ug/L	97
13) 1,1-Dicethene	2.005	96	3574	1.11	ug/L	89
14) Freon 113	2.011	101	3572	1.18	ug/L	93
15) Acetone	2.041	43	2827	1.32	ug/L	97
16) 2-Propanol	2.157	45	8687	21.89	ug/L	95
17) Iodomethane	2.121	142	2467	0.71	ug/L	83
18) Carbon Disulfide	2.169	76	9704	1.10	ug/L	96
19) Acetonitrile	2.255	41	3690	6.45	ug/L	95
20) Allyl Chloride	2.285	76	2056	1.19	ug/L	# 83
21) Methyl Acetate	2.310	43	4780	1.11	ug/L	96
22) Methylene Chloride	2.389	84	4616	1.10	ug/L	91
23) TBA	2.499	59	13189	19.98	ug/L	99
24) Acrylonitrile	2.602	53	11415	5.60	ug/L	91
25) Methyl-t-Butyl Ether	2.651	73	13392	1.07	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	4127	1.15	ug/L	90
27) 1,1-Dicethane	3.066	63	7292	1.12	ug/L	94
28) Vinyl Acetate	3.151	86	926	1.31	ug/L	# 77
29) DIPE	3.175	45	13909	1.20	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.169	53	5040	1.04	ug/L	97
31) ETBE	3.633	59	13499	1.16	ug/L	98
32) 2,2-Dichloropropane	3.773	77	5853	1.22	ug/L	95
33) cis-1,2-Dichloroethene	3.785	96	4644	1.14	ug/L	88
34) 2-Butanone	3.840	43	3299	1.19	ug/L	95
35) Propionitrile	3.889	54	4251	5.04	ug/L	85
36) Bromochloromethane	4.120	130	2951	1.03	ug/L	97
37) Methacrylonitrile	4.126	67	2602	1.18	ug/L	# 63
38) Tetrahydrofuran	4.212	42	2897	1.46	ug/L	# 56
39) Chloroform	4.273	83	8011	1.18	ug/L	98
40) 1,1,1-Trichloroethane	4.541	97	5873	1.12	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9859.D
 Acq On : 11 Sep 2019 3:27 pm
 Operator : F.NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:56 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:54:30 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	12692	1.11	ug/L	95
43) Cyclohexane	4.632	41	4271	1.27	ug/L	91
45) Carbontetrachloride	4.840	117	4953	1.12	ug/L	96
46) 1,1-Dichloropropene	4.852	75	5492	1.17	ug/L	88
48) Benzene	5.218	78	16399	1.10	ug/L	98
49) 1,2-Dichloroethane	5.260	62	5557	0.91	ug/L	93
50) Iso-Butyl Alcohol	5.248	43	5610	20.20	ug/L	81
51) n-Heptane	5.803	43	5376	1.46	ug/L	96
52) 1-Butanol	6.376	56	7047	41.25	ug/L	92
53) Trichloroethene	6.297	130	4273	0.99	ug/L	93
54) Methylcyclohexane	6.559	55	5737	1.30	ug/L	92
55) 1,2-Dicloropropane	6.608	63	4373	1.09	ug/L	95
56) Dibromomethane	6.760	93	2873	0.99	ug/L	92
57) 1,4-Dioxane	6.864	88	1526	17.67	ug/L	81
58) Methyl Methacrylate	6.894	69	3606	1.02	ug/L	97
59) Bromodichloromethane	7.022	83	4991	0.99	ug/L	96
60) 2-Nitropropane	7.327	41	2478	2.46	ug/L	100
61) 2-Chloroethylvinyl Ether	7.492	63	1392	0.67	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	6151	1.02	ug/L	89
63) 4-Methyl-2-pentanone	7.863	43	4951	0.94	ug/L	94
65) Toluene	8.028	91	17404	1.09	ug/L	96
66) trans-1,3-Dichloropropene	8.327	75	5496	1.02	ug/L	92
67) Ethyl Methacrylate	8.504	69	6211	1.11	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	4121	0.98	ug/L	97
71) Tetrachloroethene	8.674	164	3277	1.07	ug/L	86
72) 2-Hexanone	8.869	43	3325	0.87	ug/L	96
73) 1,3-Dichloropropane	8.711	76	6941	1.02	ug/L	97
74) Dibromochloromethane	8.961	129	3752	0.97	ug/L	92
75) N-Butyl Acetate	9.058	43	7444	1.10	ug/L	98
76) 1,2-Dibromoethane	9.058	107	4182	0.97	ug/L	95
77) 3-Chlorobenzotrifluoride	9.650	180	6298	1.09	ug/L	90
78) Chlorobenzene	9.607	112	11872	1.12	ug/L	97
79) 4-Chlorobenzotrifluoride	9.711	180	5529	1.06	ug/L	90
80) 1,1,1,2-Tetrachloroethane	9.705	131	3546	1.00	ug/L	96
81) Ethylbenzene	9.747	106	5637	1.07	ug/L	96
82) (m+p)Xylene	9.869	106	14249	2.18	ug/L	91
83) o-Xylene	10.247	106	6770	1.04	ug/L	96
84) Styrene	10.265	104	11237	1.01	ug/L	97
85) Bromoform	10.412	173	2559	0.97	ug/L	100
86) 2-Chlorobenzotrifluoride	10.515	180	5685	1.00	ug/L	98
87) Isopropylbenzene	10.607	105	17594	1.09	ug/L	98
88) Cyclohexanone	10.656	55	15612	17.28	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	1271	0.95	ug/L	95
91) 1,1,2,2-Tetrachloroethane	10.881	83	4712	0.93	ug/L	100
92) Bromobenzene	10.845	156	4818	1.13	ug/L	89
93) 1,2,3-Trichloropropane	10.906	110	2013	1.10	ug/L	# 81
94) n-Propylbenzene	10.979	91	18916	1.17	ug/L	95
95) 2-Chlorotoluene	11.034	91	12128	1.19	ug/L	97
96) 3-Chlorotoluene	11.088	91	12560	1.15	ug/L	96
97) 4-Chlorotoluene	11.131	91	12957	1.09	ug/L	95
98) 1,3,5-Trimethylbenzene	11.143	105	14392	1.20	ug/L	94
99) tert-Butylbenzene	11.418	119	11943	1.15	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	13599	1.13	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.533	214	4278	1.05	ug/L	98
102) sec-Butylbenzene	11.607	105	16932	1.16	ug/L	99
103) p-Isopropyltoluene	11.735	119	14144	1.13	ug/L	90

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9859.D
Acq On : 11 Sep 2019 3:27 pm
Operator : F.NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:54:56 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 08:54:30 2019
Response via : Initial Calibration

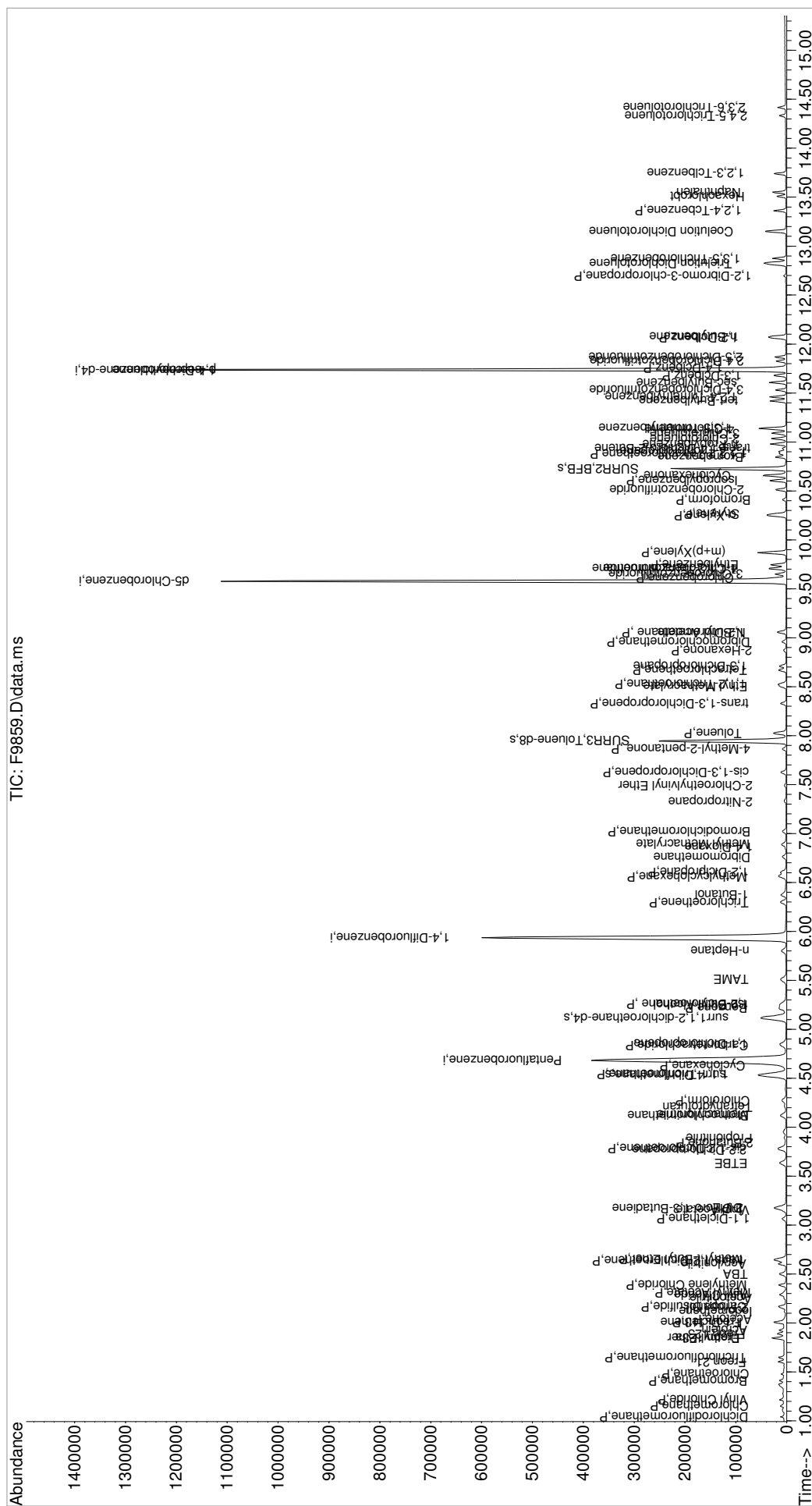
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	8273	1.08	ug/L	98
105) 1,4-Dclbenz	11.759	146	8510	1.08	ug/L	94
106) 2,4-Dichlorobenzotrifl...	11.826	214	3778	1.03	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	4438	1.06	ug/L	90
108) n-Butylbenzene	12.076	91	12110	1.15	ug/L	99
109) 1,2-Dclbenz	12.064	146	7858	1.02	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.698	157	999	0.82	ug/L	86
111) Trielution Dichlorotol...	12.826	125	20118	3.13	ug/L	92
112) 1,3,5-Trichlorobenzene	12.875	180	5875	1.03	ug/L	90
113) Coelution Dichlorotoluene	13.149	125	14535	2.04	ug/L	98
114) 1,2,4-Tcbenzene	13.362	180	5467	1.00	ug/L	97
115) Hexachlorobt	13.509	225	2611	1.20	ug/L	83
116) Naphthalen	13.551	128	15122	0.90	ug/L	96
117) 1,2,3-Tclbenzene	13.746	180	5456	0.97	ug/L	89
118) 2,4,5-Trichlorotoluene	14.332	159	2792	0.76	ug/L	90
119) 2,3,6-Trichlorotoluene	14.417	159	2897	0.74	ug/L	94

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

OT Reviewed)

Inst : MSV0A14

Quant Time: Sep 16 08:54:56 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 08:54:30 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9860.D
 Acq On : 11 Sep 2019 3:49 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:57:14 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:57:04 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	388849	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	585616	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	497351	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	242232	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	40794	10.79	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	21.58%#		
47) surr1,1,2-dichloroetha...	5.120	65	50345	10.86	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	21.72%#		
64) SURR3,Toluene-d8	7.943	98	167167	11.57	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	23.14%#		
69) SURR2,BFB	10.723	95	60410	10.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	21.70%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	8191	1.71	ug/L	92
3) Chloromethane	1.152	50	10071	2.34	ug/L	93
4) Vinyl Chloride	1.219	62	10469	2.37	ug/L	92
5) Bromomethane	1.414	94	7074	2.58	ug/L	97
6) Chloroethane	1.475	64	6256	2.42	ug/L	97
7) Freon 21	1.603	67	15078	2.38	ug/L	97
8) Trichlorofluoromethane	1.645	101	12109	2.28	ug/L	91
9) Diethyl Ether	1.847	59	7985	2.29	ug/L	98
10) Freon 123a	1.847	67	9560	2.34	ug/L	92
11) Freon 123	1.889	83	11431	2.49	ug/L	97
12) Acrolein	1.926	56	11733	11.21	ug/L	96
13) 1,1-Dicethene	2.005	96	7603	2.37	ug/L	95
14) Freon 113	2.017	101	7624	2.54	ug/L	94
15) Acetone	2.042	43	5100	2.36	ug/L	91
16) 2-Propanol	2.157	45	16842	42.04	ug/L	92
17) Iodomethane	2.115	142	4839	1.48	ug/L	93
18) Carbon Disulfide	2.170	76	20098	2.29	ug/L	99
19) Acetonitrile	2.255	41	6092	10.56	ug/L	98
20) Allyl Chloride	2.292	76	4292	2.48	ug/L	# 85
21) Methyl Acetate	2.310	43	9118	2.16	ug/L	97
22) Methylene Chloride	2.383	84	8901	2.18	ug/L	92
23) TBA	2.499	59	26629	40.56	ug/L	96
24) Acrylonitrile	2.602	53	22209	10.92	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	26830	2.15	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	8132	2.28	ug/L	95
27) 1,1-Dicethane	3.066	63	14384	2.23	ug/L	91
28) Vinyl Acetate	3.145	86	1630	2.20	ug/L	# 91
29) DIPE	3.182	45	28132	2.41	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.169	53	11121	2.31	ug/L	98
31) ETBE	3.639	59	26438	2.27	ug/L	93
32) 2,2-Dichloropropane	3.773	77	11764	2.42	ug/L	90
33) cis-1,2-Dichloroethene	3.785	96	9061	2.26	ug/L	94
34) 2-Butanone	3.828	43	5902	2.12	ug/L	91
35) Propionitrile	3.889	54	8325	9.99	ug/L	99
36) Bromochloromethane	4.114	130	5771	2.04	ug/L	87
37) Methacrylonitrile	4.120	67	4745	2.13	ug/L	89
38) Tetrahydrofuran	4.212	42	4744	2.30	ug/L	84
39) Chloroform	4.267	83	15585	2.29	ug/L	89
40) 1,1,1-Trichloroethane	4.547	97	12026	2.31	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9860.D
 Acq On : 11 Sep 2019 3:49 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:57:14 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:57:04 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	25543	2.24	ug/L	99
43) Cyclohexane	4.633	41	8000	2.36	ug/L	91
45) Carbontetrachloride	4.834	117	10325	2.35	ug/L	86
46) 1,1-Dichloropropene	4.852	75	10786	2.31	ug/L	93
48) Benzene	5.218	78	32296	2.19	ug/L	98
49) 1,2-Dichloroethane	5.254	62	11840	2.02	ug/L	97
50) Iso-Butyl Alcohol	5.261	43	10966	39.13	ug/L	95
51) n-Heptane	5.803	43	10415	2.77	ug/L	98
52) 1-Butanol	6.376	56	15292	88.88	ug/L	98
53) Trichloroethene	6.303	130	10058	2.41	ug/L	93
54) Methylcyclohexane	6.565	55	11129	2.49	ug/L	92
55) 1,2-Dicloropropane	6.602	63	8997	2.26	ug/L	94
56) Dibromomethane	6.766	93	5395	1.90	ug/L	93
57) 1,4-Dioxane	6.858	88	2902	34.46	ug/L	97
58) Methyl Methacrylate	6.888	69	7335	2.08	ug/L	97
59) Bromodichloromethane	7.022	83	10196	2.05	ug/L	97
60) 2-Nitropropane	7.333	41	5070	4.87	ug/L	94
61) 2-Chloroethylvinyl Ether	7.486	63	2847	1.46	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	12424	2.07	ug/L	94
63) 4-Methyl-2-pentanone	7.864	43	10073	1.97	ug/L	95
65) Toluene	8.022	91	34277	2.18	ug/L	97
66) trans-1,3-Dichloropropene	8.327	75	11410	2.11	ug/L	98
67) Ethyl Methacrylate	8.504	69	12602	2.21	ug/L	97
68) 1,1,2-Trichloroethane	8.528	97	8247	2.01	ug/L	90
71) Tetrachloroethene	8.668	164	6834	2.32	ug/L #	87
72) 2-Hexanone	8.870	43	6668	1.85	ug/L	91
73) 1,3-Dichloropropane	8.711	76	13956	2.12	ug/L	98
74) Dibromochloromethane	8.955	129	7635	2.03	ug/L	88
75) N-Butyl Acetate	9.052	43	14370	2.14	ug/L	97
76) 1,2-Dibromoethane	9.059	107	8389	2.02	ug/L	89
77) 3-Chlorobenzotrifluoride	9.650	180	11641	2.06	ug/L	93
78) Chlorobenzene	9.607	112	21755	2.12	ug/L	92
79) 4-Chlorobenzotrifluoride	9.711	180	11134	2.20	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.705	131	7976	2.32	ug/L	93
81) Ethylbenzene	9.747	106	11775	2.29	ug/L	94
82) (m+p)Xylene	9.869	106	28065	4.42	ug/L	100
83) o-Xylene	10.247	106	13602	2.16	ug/L	97
84) Styrene	10.260	104	22370	2.08	ug/L	98
85) Bromoform	10.412	173	5126	1.98	ug/L	95
86) 2-Chlorobenzotrifluoride	10.516	180	11997	2.17	ug/L	93
87) Isopropylbenzene	10.607	105	35194	2.23	ug/L	97
88) Cyclohexanone	10.656	55	31608	36.11	ug/L	100
89) trans-1,4-Dichloro-2-B...	10.930	53	2464	1.89	ug/L	93
91) 1,1,2,2-Tetrachloroethane	10.881	83	9787	1.99	ug/L	97
92) Bromobenzene	10.851	156	9197	2.19	ug/L	98
93) 1,2,3-Trichloropropane	10.906	110	3516	1.95	ug/L	96
94) n-Propylbenzene	10.979	91	37638	2.33	ug/L	98
95) 2-Chlorotoluene	11.034	91	23595	2.32	ug/L	97
96) 3-Chlorotoluene	11.089	91	25169	2.32	ug/L	97
97) 4-Chlorotoluene	11.131	91	27020	2.31	ug/L	97
98) 1,3,5-Trimethylbenzene	11.137	105	27876	2.34	ug/L	96
99) tert-Butylbenzene	11.418	119	24138	2.35	ug/L	95
100) 1,2,4-Trimethylbenzene	11.461	105	27058	2.27	ug/L	94
101) 3,4-Dichlorobenzotrifl...	11.534	214	8312	2.09	ug/L	93
102) sec-Butylbenzene	11.607	105	34451	2.37	ug/L	97
103) p-Isopropyltoluene	11.735	119	29479	2.38	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9860.D
 Acq On : 11 Sep 2019 3:49 pm
 Operator : F.NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:57:14 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:57:04 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	16594	2.22	ug/L	96
105) 1,4-Dclbenz	11.759	146	17534	2.27	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	8225	2.29	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.869	214	8590	2.09	ug/L	99
108) n-Butylbenzene	12.076	91	24985	2.37	ug/L	99
109) 1,2-Dclbenz	12.064	146	16215	2.15	ug/L	94
110) 1,2-Dibromo-3-chloropr...	12.698	157	2456	2.04	ug/L	98
111) Trielution Dichlorotol...	12.826	125	41081	6.48	ug/L	94
112) 1,3,5-Trichlorobenzene	12.875	180	11827	2.12	ug/L	96
113) Coelution Dichlorotoluene	13.149	125	30469	4.34	ug/L	98
114) 1,2,4-Tcbenzene	13.363	180	11565	2.16	ug/L	97
115) Hexachlorobt	13.509	225	5341	2.46	ug/L	96
116) Naphthalen	13.552	128	32049	1.95	ug/L	97
117) 1,2,3-Tclbenzene	13.741	180	11226	2.06	ug/L	97
118) 2,4,5-Trichlorotoluene	14.332	159	6037	1.72	ug/L	96
119) 2,3,6-Trichlorotoluene	14.417	159	6816	1.83	ug/L	93

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

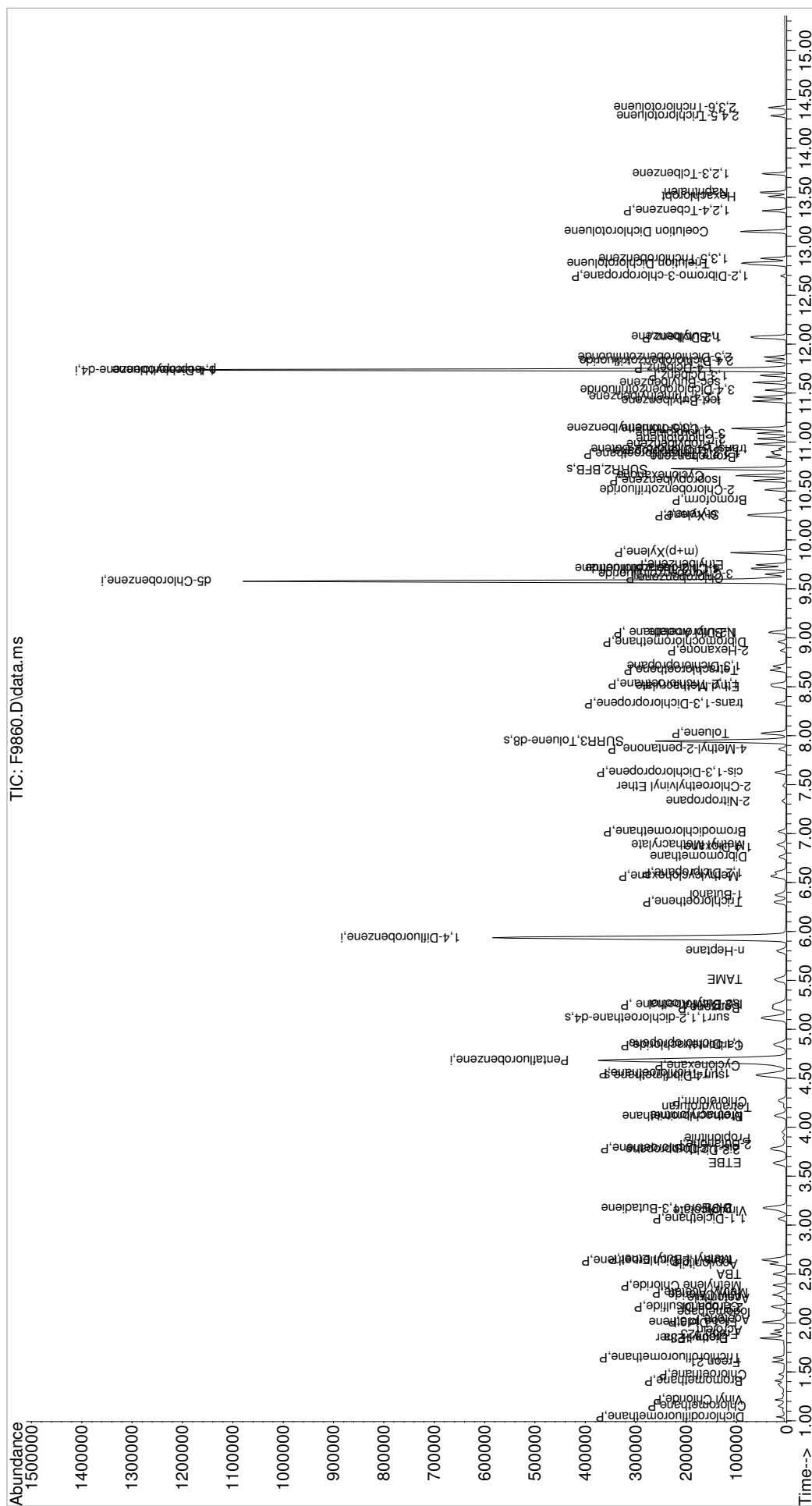
Quantitation Report (QT Reviewed)

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Data Path      : I:\ACQUDATA\MSV0A14\Data\0911119\
Data File     : F9860.D
Acq On        : 11 Sep 2019   3:49 pm
Operator      : F.NAEGLER
Sample        : 2.0 PPB STD
Misc          :
ALS Vial      : 4   Sample Multiplier: 1
Inst          : MSV0A14

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Quant Time: Sep 16 08:57:14 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 08:57:04 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9861.D
 Acq On : 11 Sep 2019 4:11 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:59:51 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:58:58 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	402367	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	607836	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	523202	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	258692	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	43555	11.10	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.20%#
47) surr1,1,2-dichloroetha...	5.114	65	51184	10.64	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	21.28%#
64) SURR3,Toluene-d8	7.943	98	176142	11.75	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.50%#
69) SURR2,BFB	10.729	95	64808	11.22	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.44%#
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	18706	3.88	ug/L	100
3) Chloromethane	1.151	50	23237	5.10	ug/L	99
4) Vinyl Chloride	1.212	62	23782	5.09	ug/L	98
5) Bromomethane	1.408	94	14399	4.98	ug/L	94
6) Chloroethane	1.475	64	14462	5.30	ug/L	97
7) Freon 21	1.603	67	35618	5.36	ug/L	95
8) Trichlorofluoromethane	1.645	101	28527	5.21	ug/L	99
9) Diethyl Ether	1.846	59	18483	5.02	ug/L	97
10) Freon 123a	1.846	67	23752	5.57	ug/L	98
11) Freon 123	1.889	83	27516	5.71	ug/L	91
12) Acrolein	1.926	56	27672	25.01	ug/L	99
13) 1,1-Dicethene	2.005	96	17924	5.34	ug/L	97
14) Freon 113	2.011	101	18439	5.86	ug/L	99
15) Acetone	2.042	43	12602	5.49	ug/L	96
16) 2-Propanol	2.157	45	43333	100.55	ug/L	96
17) Iodomethane	2.115	142	14068	4.07	ug/L	95
18) Carbon Disulfide	2.170	76	47736	5.15	ug/L	98
19) Acetonitrile	2.261	41	17082	28.02	ug/L	91
20) Allyl Chloride	2.291	76	10729	5.78	ug/L	# 82
21) Methyl Acetate	2.310	43	23458	5.29	ug/L	94
22) Methylene Chloride	2.383	84	21047	4.97	ug/L	97
23) TBA	2.505	59	67697	96.95	ug/L	95
24) Acrylonitrile	2.602	53	56708	26.33	ug/L	97
25) Methyl-t-Butyl Ether	2.651	73	67848	5.17	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	19902	5.32	ug/L	99
27) 1,1-Dicethane	3.066	63	36324	5.40	ug/L	97
28) Vinyl Acetate	3.145	86	4103	5.08	ug/L	# 88
29) DIPE	3.182	45	69670	5.59	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.169	53	27912	5.49	ug/L	96
31) ETBE	3.633	59	66536	5.39	ug/L	98
32) 2,2-Dichloropropane	3.773	77	29463	5.73	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	22552	5.33	ug/L	96
34) 2-Butanone	3.828	43	14683	4.97	ug/L	97
35) Propionitrile	3.889	54	23213	26.66	ug/L	92
36) Bromochloromethane	4.120	130	15272	5.17	ug/L	96
37) Methacrylonitrile	4.120	67	11872	5.04	ug/L	89
38) Tetrahydrofuran	4.212	42	10075	4.54	ug/L	89
39) Chloroform	4.273	83	36227	5.05	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	29508	5.42	ug/L	93

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9861.D
 Acq On : 11 Sep 2019 4:11 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:59:51 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:58:58 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	65268	5.41	ug/L	98
43) Cyclohexane	4.632	41	20484	5.74	ug/L	85
45) Carbontetrachloride	4.834	117	25885	5.59	ug/L	94
46) 1,1-Dichloropropene	4.852	75	27017	5.53	ug/L	97
48) Benzene	5.218	78	81132	5.28	ug/L	97
49) 1,2-Dichloroethane	5.254	62	30211	4.99	ug/L	96
50) Iso-Butyl Alcohol	5.260	43	29139	96.69	ug/L	97
51) n-Heptane	5.803	43	24759	6.13	ug/L	98
52) 1-Butanol	6.370	56	41302	222.97	ug/L	93
53) Trichloroethene	6.303	130	24764	5.69	ug/L	95
54) Methylcyclohexane	6.559	55	27094	5.72	ug/L	93
55) 1,2-Dicloropropane	6.608	63	22360	5.34	ug/L	99
56) Dibromomethane	6.760	93	14971	5.09	ug/L	94
57) 1,4-Dioxane	6.845	88	7908	91.28	ug/L	96
58) Methyl Methacrylate	6.888	69	19104	5.10	ug/L	99
59) Bromodichloromethane	7.022	83	25212	4.84	ug/L	99
60) 2-Nitropropane	7.333	41	11601	9.97	ug/L	94
61) 2-Chloroethylvinyl Ether	7.492	63	7605	3.80	ug/L	83
62) cis-1,3-Dichloropropene	7.626	75	32512	5.13	ug/L	97
63) 4-Methyl-2-pentanone	7.864	43	26406	4.90	ug/L	99
65) Toluene	8.022	91	87576	5.35	ug/L	96
66) trans-1,3-Dichloropropene	8.327	75	29882	5.19	ug/L	99
67) Ethyl Methacrylate	8.504	69	33150	5.36	ug/L	96
68) 1,1,2-Trichloroethane	8.528	97	21382	4.99	ug/L	94
71) Tetrachloroethene	8.668	164	17887	5.73	ug/L	96
72) 2-Hexanone	8.869	43	19808	5.16	ug/L	98
73) 1,3-Dichloropropane	8.711	76	36051	5.14	ug/L	95
74) Dibromochloromethane	8.961	129	20233	5.01	ug/L	98
75) N-Butyl Acetate	9.052	43	39159	5.35	ug/L	99
76) 1,2-Dibromoethane	9.058	107	21179	4.83	ug/L	97
77) 3-Chlorobenzotrifluoride	9.650	180	31647	5.35	ug/L	92
78) Chlorobenzene	9.607	112	58286	5.39	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	28324	5.30	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.705	131	20008	5.37	ug/L	94
81) Ethylbenzene	9.747	106	29985	5.50	ug/L	99
82) (m+p)Xylene	9.869	106	72859	10.81	ug/L	95
83) o-Xylene	10.247	106	36291	5.45	ug/L	96
84) Styrene	10.259	104	59974	5.24	ug/L	99
85) Bromoform	10.412	173	13567	4.86	ug/L	99
86) 2-Chlorobenzotrifluoride	10.515	180	30143	5.15	ug/L	96
87) Isopropylbenzene	10.607	105	94075	5.65	ug/L	99
88) Cyclohexanone	10.656	55	84724	91.09	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.930	53	6334	4.51	ug/L	85
91) 1,1,2,2-Tetrachloroethane	10.881	83	25796	4.88	ug/L	97
92) Bromobenzene	10.845	156	24242	5.39	ug/L #	87
93) 1,2,3-Trichloropropane	10.900	110	9751	5.05	ug/L #	90
94) n-Propylbenzene	10.979	91	100160	5.76	ug/L	98
95) 2-Chlorotoluene	11.034	91	62588	5.70	ug/L	97
96) 3-Chlorotoluene	11.089	91	65413	5.53	ug/L	98
97) 4-Chlorotoluene	11.131	91	70897	5.61	ug/L	100
98) 1,3,5-Trimethylbenzene	11.143	105	74819	5.80	ug/L	98
99) tert-Butylbenzene	11.418	119	64703	5.85	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	72828	5.64	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	22248	5.22	ug/L	97
102) sec-Butylbenzene	11.607	105	89541	5.72	ug/L	99
103) p-Isopropyltoluene	11.735	119	76690	5.74	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9861.D
 Acq On : 11 Sep 2019 4:11 pm
 Operator : F.NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 08:59:51 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 08:58:58 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	43559	5.43	ug/L	95
105) 1,4-Dclbenz	11.753	146	43917	5.28	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.826	214	21103	5.42	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.869	214	21941	4.98	ug/L	94
108) n-Butylbenzene	12.076	91	63816	5.58	ug/L	99
109) 1,2-Dclbenz	12.064	146	40866	5.05	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	5748	4.33	ug/L	88
111) Trielution Dichlorotol...	12.826	125	105379	15.33	ug/L	97
112) 1,3,5-Trichlorobenzene	12.875	180	30157	5.03	ug/L	95
113) Coelution Dichlorotoluene	13.155	125	76209	10.01	ug/L	94
114) 1,2,4-Tcbenzene	13.362	180	28901	4.99	ug/L	97
115) Hexachlorobt	13.509	225	12727	5.42	ug/L	94
116) Naphthalen	13.551	128	84715	4.79	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	28822	4.95	ug/L	95
118) 2,4,5-Trichlorotoluene	14.332	159	18103	4.86	ug/L	96
119) 2,3,6-Trichlorotoluene	14.417	159	19358	4.92	ug/L	96

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

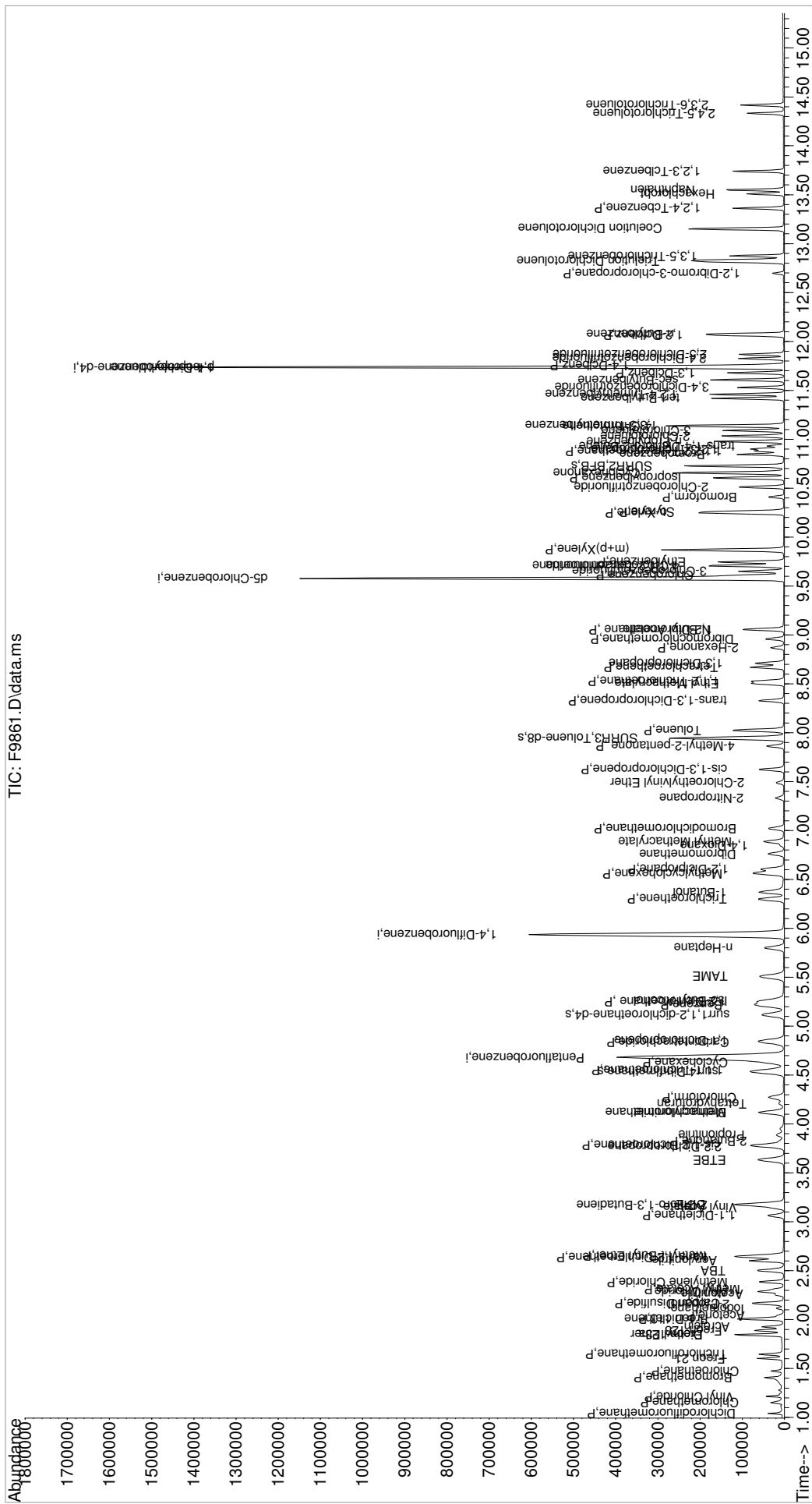
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\0911119\
Data File	:	F9861.D
Acq On	:	11 Sep 2019 4:11 pm
Operator	:	F.NAEGLER
Sample	:	5.0 PPB STD
Misc	:	
ALS Vial	:	5 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 08:59:51 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 08:58:58 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9862.D
 Acq On : 11 Sep 2019 4:34 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:01:10 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:00:57 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	362639	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	542948	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	467621	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	243862	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	68348	19.29	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	38.58%#
47) surr1,1,2-dichloroetha...	5.114	65	80230	18.72	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	37.44%#
64) SURR3,Toluene-d8	7.949	98	264864	19.44	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	38.88%#
69) SURR2,BFB	10.729	95	102456	19.60	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	39.20%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	95814	22.80	ug/L	99
3) Chloromethane	1.151	50	102711	24.73	ug/L	100
4) Vinyl Chloride	1.218	62	105384	24.92	ug/L	98
5) Bromomethane	1.414	94	54793	20.90	ug/L	100
6) Chloroethane	1.481	64	58692	23.66	ug/L	98
7) Freon 21	1.603	67	130961	21.83	ug/L	99
8) Trichlorofluoromethane	1.645	101	113681	23.15	ug/L	100
9) Diethyl Ether	1.846	59	71987	21.58	ug/L	97
10) Freon 123a	1.846	67	86166	22.26	ug/L	98
11) Freon 123	1.889	83	98142	22.33	ug/L	98
12) Acrolein	1.926	56	111427	110.08	ug/L	98
13) 1,1-Dicethene	2.005	96	70002	23.07	ug/L	98
14) Freon 113	2.011	101	70975	24.71	ug/L	94
15) Acetone	2.041	43	46738	22.10	ug/L	99
16) 2-Propanol	2.157	45	168068	420.00	ug/L	93
17) Iodomethane	2.115	142	83344	26.52	ug/L	96
18) Carbon Disulfide	2.169	76	204270	24.14	ug/L	100
19) Acetonitrile	2.255	41	65165	115.71	ug/L	99
20) Allyl Chloride	2.285	76	38963	22.68	ug/L #	93
21) Methyl Acetate	2.310	43	82948	20.35	ug/L	97
22) Methylene Chloride	2.389	84	79732	20.91	ug/L	97
23) TBA	2.499	59	269853	420.13	ug/L	94
24) Acrylonitrile	2.602	53	215720	109.13	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	255287	21.40	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	76351	22.52	ug/L	99
27) 1,1-Dicethane	3.066	63	139324	22.84	ug/L	98
28) Vinyl Acetate	3.145	86	19178	25.56	ug/L	98
29) DIPE	3.181	45	261949	22.86	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.175	53	110074	23.68	ug/L	95
31) ETBE	3.633	59	249678	22.06	ug/L	99
32) 2,2-Dichloropropane	3.779	77	114781	24.31	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	86822	22.63	ug/L	98
34) 2-Butanone	3.828	43	60514	22.48	ug/L	96
35) Propionitrile	3.883	54	87415	109.36	ug/L	100
36) Bromochloromethane	4.120	130	56834	21.22	ug/L	96
37) Methacrylonitrile	4.120	67	45068	20.94	ug/L	96
38) Tetrahydrofuran	4.206	42	36720	18.01	ug/L	100
39) Chloroform	4.273	83	131571	20.24	ug/L	95
40) 1,1,1-Trichloroethane	4.547	97	115745	23.43	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9862.D
 Acq On : 11 Sep 2019 4:34 pm
 Operator : F.NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:01:10 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:00:57 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	239348	21.62	ug/L	98
43) Cyclohexane	4.638	41	73458	22.78	ug/L	93
45) Carbontetrachloride	4.840	117	100898	24.02	ug/L	95
46) 1,1-Dichloropropene	4.846	75	103073	23.49	ug/L	94
48) Benzene	5.218	78	302280	22.02	ug/L	98
49) 1,2-Dichloroethane	5.254	62	112340	20.89	ug/L	96
50) Iso-Butyl Alcohol	5.254	43	121394	436.42	ug/L	95
51) n-Heptane	5.803	43	99485	26.85	ug/L	97
52) 1-Butanol	6.370	56	187564	1103.60	ug/L	99
53) Trichloroethene	6.297	130	90203	23.10	ug/L	98
54) Methylcyclohexane	6.565	55	99355	23.10	ug/L	99
55) 1,2-Dicloropropane	6.608	63	83094	22.14	ug/L	99
56) Dibromomethane	6.760	93	53799	20.45	ug/L	97
57) 1,4-Dioxane	6.845	88	30994	403.26	ug/L	98
58) Methyl Methacrylate	6.888	69	73100	21.46	ug/L	97
59) Bromodichloromethane	7.022	83	95849	20.50	ug/L	98
60) 2-Nitropropane	7.333	41	48278	44.12	ug/L	94
61) 2-Chloroethylvinyl Ether	7.486	63	32943	18.93	ug/L	95
62) cis-1,3-Dichloropropene	7.626	75	126791	22.09	ug/L	97
63) 4-Methyl-2-pentanone	7.863	43	105722	21.70	ug/L	99
65) Toluene	8.022	91	324019	22.15	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	114444	21.75	ug/L	98
67) Ethyl Methacrylate	8.504	69	125592	22.05	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	78521	20.54	ug/L	96
71) Tetrachloroethene	8.668	164	64898	23.15	ug/L	97
72) 2-Hexanone	8.869	43	78631	22.43	ug/L	100
73) 1,3-Dichloropropane	8.711	76	134855	21.40	ug/L	99
74) Dibromochloromethane	8.961	129	79579	21.72	ug/L	99
75) N-Butyl Acetate	9.052	43	151058	22.43	ug/L	100
76) 1,2-Dibromoethane	9.058	107	81557	20.77	ug/L	96
77) 3-Chlorobenzotrifluoride	9.650	180	119607	22.55	ug/L	97
78) Chlorobenzene	9.607	112	212971	21.96	ug/L	100
79) 4-Chlorobenzotrifluoride	9.711	180	107623	22.45	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	75272	22.28	ug/L	96
81) Ethylbenzene	9.747	106	113107	23.09	ug/L	99
82) (m+p)Xylene	9.869	106	272113	45.17	ug/L	99
83) o-Xylene	10.247	106	134740	22.60	ug/L	94
84) Styrene	10.259	104	228963	22.34	ug/L	98
85) Bromoform	10.412	173	54962	21.62	ug/L	97
86) 2-Chlorobenzotrifluoride	10.515	180	115459	22.07	ug/L	98
87) Isopropylbenzene	10.607	105	350504	23.48	ug/L	99
88) Cyclohexanone	10.656	55	351556	421.42	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.930	53	27052	21.30	ug/L	93
91) 1,1,2,2-Tetrachloroethane	10.881	83	97118	19.49	ug/L	97
92) Bromobenzene	10.851	156	91100	21.41	ug/L	98
93) 1,2,3-Trichloropropane	10.899	110	35141	19.28	ug/L	# 88
94) n-Propylbenzene	10.979	91	384004	23.28	ug/L	98
95) 2-Chlorotoluene	11.034	91	234862	22.54	ug/L	99
96) 3-Chlorotoluene	11.088	91	245296	21.72	ug/L	99
97) 4-Chlorotoluene	11.131	91	267557	22.35	ug/L	99
98) 1,3,5-Trimethylbenzene	11.143	105	279318	22.79	ug/L	99
99) tert-Butylbenzene	11.418	119	247090	23.53	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	286115	23.34	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.534	214	90822	22.54	ug/L	97
102) sec-Butylbenzene	11.607	105	353041	23.89	ug/L	99
103) p-Isopropyltoluene	11.735	119	304391	24.04	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9862.D
Acq On : 11 Sep 2019 4:34 pm
Operator : F.NAEGLER
Sample : 20 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:01:10 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:00:57 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	167278	22.10	ug/L	99
105) 1,4-Dclbenz	11.759	146	168538	21.56	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	80940	21.90	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	92007	22.20	ug/L	98
108) n-Butylbenzene	12.076	91	263754	24.30	ug/L	99
109) 1,2-Dclbenz	12.064	146	164865	21.78	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	25940	20.53	ug/L	98
111) Trielution Dichlorotol...	12.826	125	436066	67.17	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	123673	22.00	ug/L	97
113) Coelution Dichlorotoluene	13.149	125	316232	44.10	ug/L	98
114) 1,2,4-Tcbenzene	13.362	180	118403	21.83	ug/L	98
115) Hexachlorobt	13.509	225	54104	24.53	ug/L	99
116) Naphthalen	13.551	128	358049	21.55	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	117518	21.71	ug/L	100
118) 2,4,5-Trichlorotoluene	14.332	159	79234	22.80	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	86126	23.51	ug/L	97

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

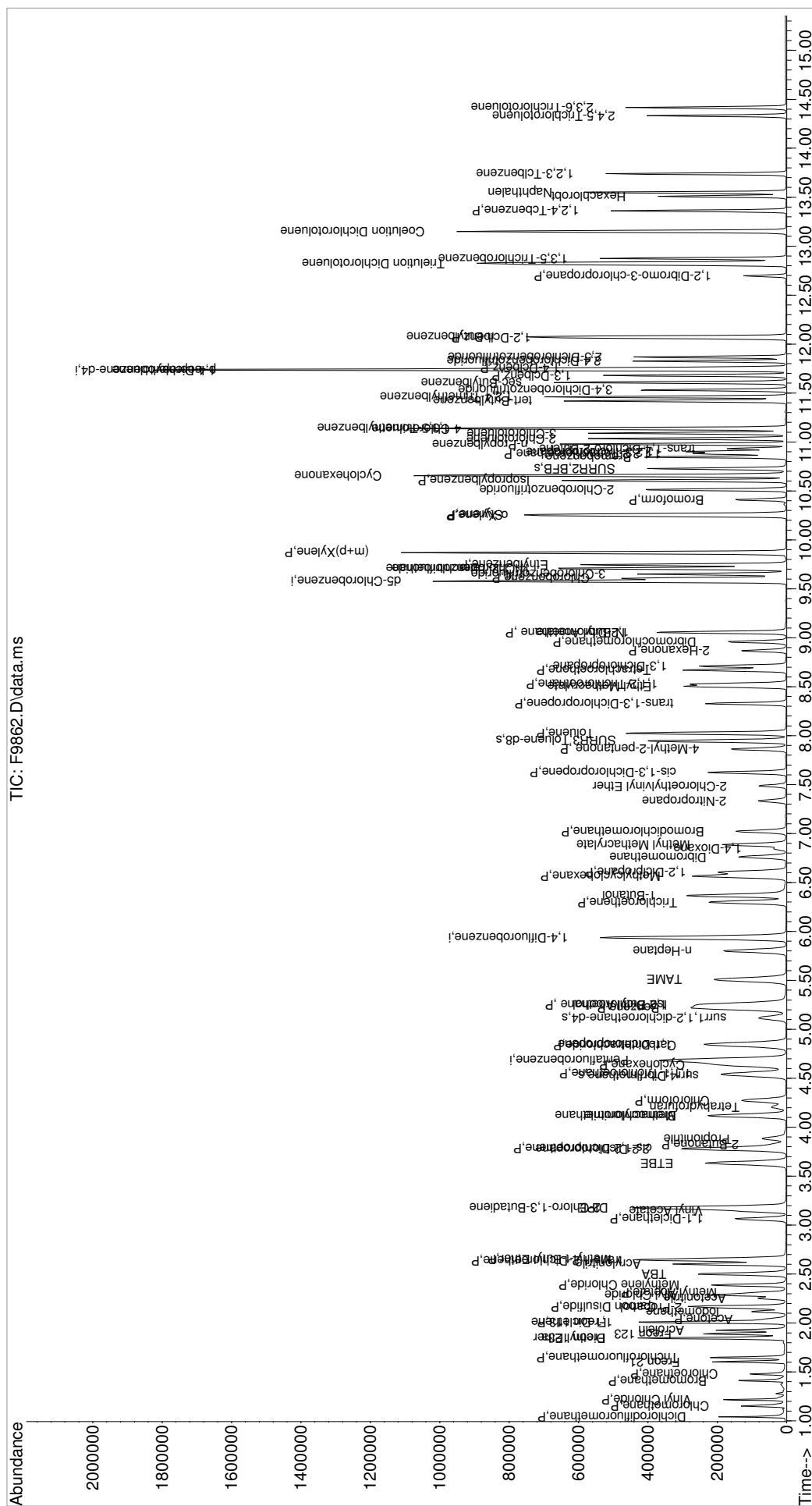
Quantitation Report (QT Reviewed)

Data Path	:	:	I:\ACQUDATA\MSVOA14\Data\091119\
Data File	:	:	F9862.D
Acq On	:	:	11 Sep 2019 4:34 pm
Operator	:	:	F.NAEGLER
Sample	:	:	20 PPB STD
Misc	:	:	
ALS Vial	:	:	6 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 09:01:10 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:00:57 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9863.D
 Acq On : 11 Sep 2019 4:56 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:03:47 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:03:18 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	372624	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	564088	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	480156	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.735	152	246514	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	179832	48.53	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.06%	
47) surr1,1,2-dichloroetha...	5.114	65	208005	46.86	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	93.72%	
64) SURR3,Toluene-d8	7.949	98	679967	47.58	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	95.16%	
69) SURR2,BFB	10.729	95	258907	47.26	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.52%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	240199	54.81	ug/L	100
3) Chloromethane	1.151	50	254646	57.08	ug/L	100
4) Vinyl Chloride	1.219	62	267254	58.91	ug/L	99
5) Bromomethane	1.408	94	118167	42.33	ug/L	99
6) Chloroethane	1.475	64	146963	55.56	ug/L	99
7) Freon 21	1.603	67	335218	53.24	ug/L	98
8) Trichlorofluoromethane	1.645	101	288489	55.39	ug/L	99
9) Diethyl Ether	1.846	59	179002	51.34	ug/L	99
10) Freon 123a	1.846	67	219846	53.81	ug/L	99
11) Freon 123	1.889	83	257027	55.54	ug/L	97
12) Acrolein	1.926	56	266677	251.55	ug/L	97
13) 1,1-Dicethene	2.005	96	173616	53.72	ug/L	98
14) Freon 113	2.011	101	175086	56.57	ug/L	98
15) Acetone	2.042	43	113454	50.56	ug/L	100
16) 2-Propanol	2.163	45	432209	1030.65	ug/L	93
17) Iodomethane	2.115	142	233415	70.73	ug/L	94
18) Carbon Disulfide	2.170	76	498275	55.32	ug/L	100
19) Acetonitrile	2.255	41	166880	282.68	ug/L	97
20) Allyl Chloride	2.285	76	92460	50.42	ug/L #	90
21) Methyl Acetate	2.310	43	208653	49.46	ug/L	98
22) Methylene Chloride	2.389	84	198750	49.77	ug/L	97
23) TBA	2.505	59	707295	1047.54	ug/L	95
24) Acrylonitrile	2.602	53	542735	262.21	ug/L	100
25) Methyl-t-Butyl Ether	2.651	73	644784	51.77	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	194155	54.02	ug/L	98
27) 1,1-Dicethane	3.066	63	355891	54.99	ug/L	99
28) Vinyl Acetate	3.145	86	44625	55.23	ug/L #	91
29) DIPE	3.182	45	620728	51.59	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.175	53	271515	55.30	ug/L	100
31) ETBE	3.633	59	606091	51.30	ug/L	99
32) 2,2-Dichloropropane	3.779	77	290870	57.23	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	218094	53.90	ug/L	93
34) 2-Butanone	3.822	43	146809	51.82	ug/L	98
35) Propionitrile	3.883	54	218987	261.84	ug/L	99
36) Bromochloromethane	4.120	130	142039	51.00	ug/L	93
37) Methacrylonitrile	4.120	67	115773	51.41	ug/L	99
38) Tetrahydrofuran	4.206	42	90936	42.59	ug/L	97
39) Chloroform	4.273	83	335731	49.33	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	300960	57.10	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9863.D
 Acq On : 11 Sep 2019 4:56 pm
 Operator : F.NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:03:47 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:03:18 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	587442	50.95	ug/L	98
43) Cyclohexane	4.645	41	187401	54.19	ug/L	93
45) Carbontetrachloride	4.840	117	260081	56.92	ug/L	95
46) 1,1-Dichloropropene	4.846	75	265317	55.97	ug/L	96
48) Benzene	5.218	78	773124	52.93	ug/L	98
49) 1,2-Dichloroethane	5.254	62	279252	49.78	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	323619	1087.88	ug/L	94
51) n-Heptane	5.803	43	252351	61.39	ug/L	99
52) 1-Butanol	6.370	56	500988	2783.90	ug/L	98
53) Trichloroethene	6.297	130	232087	55.41	ug/L	99
54) Methylcyclohexane	6.565	55	251134	54.36	ug/L	98
55) 1,2-Dicloropropane	6.608	63	208930	52.30	ug/L	98
56) Dibromomethane	6.760	93	135711	49.32	ug/L	96
57) 1,4-Dioxane	6.845	88	79652	998.33	ug/L	88
58) Methyl Methacrylate	6.888	69	188527	52.42	ug/L	96
59) Bromodichloromethane	7.022	83	248794	50.49	ug/L	99
60) 2-Nitropropane	7.333	41	130741	109.58	ug/L	99
61) 2-Chloroethylvinyl Ether	7.486	63	85542	48.14	ug/L	99
62) cis-1,3-Dichloropropene	7.626	75	327203	53.66	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	260734	50.69	ug/L	100
65) Toluene	8.028	91	820423	52.68	ug/L	100
66) trans-1,3-Dichloropropene	8.327	75	302339	54.08	ug/L	98
67) Ethyl Methacrylate	8.504	69	324241	53.54	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	195755	48.96	ug/L	97
71) Tetrachloroethene	8.668	164	166675	55.93	ug/L	95
72) 2-Hexanone	8.869	43	195537	53.22	ug/L	99
73) 1,3-Dichloropropane	8.711	76	337879	51.60	ug/L	99
74) Dibromochloromethane	8.961	129	208499	54.36	ug/L	98
75) N-Butyl Acetate	9.052	43	390368	55.15	ug/L	100
76) 1,2-Dibromoethane	9.058	107	209009	51.50	ug/L	96
77) 3-Chlorobenzotrifluoride	9.650	180	276952	50.17	ug/L	97
78) Chlorobenzene	9.607	112	536035	52.68	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	250424	50.16	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.705	131	198177	55.56	ug/L	98
81) Ethylbenzene	9.747	106	281349	54.23	ug/L	98
82) (m+p)Xylene	9.869	106	695205	109.36	ug/L	99
83) o-Xylene	10.247	106	341318	54.35	ug/L	96
84) Styrene	10.259	104	587850	54.66	ug/L	99
85) Bromoform	10.412	173	146932	55.00	ug/L	97
86) 2-Chlorobenzotrifluoride	10.515	180	270184	49.77	ug/L	97
87) Isopropylbenzene	10.607	105	895446	56.38	ug/L	99
88) Cyclohexanone	10.656	55	923788	1069.50	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.930	53	69313	52.30	ug/L	87
91) 1,1,2,2-Tetrachloroethane	10.881	83	247436	49.16	ug/L	98
92) Bromobenzene	10.845	156	229575	52.59	ug/L	90
93) 1,2,3-Trichloropropane	10.906	110	89314	48.47	ug/L	94
94) n-Propylbenzene	10.979	91	981835	56.81	ug/L	98
95) 2-Chlorotoluene	11.034	91	591653	54.64	ug/L	100
96) 3-Chlorotoluene	11.089	91	568677	49.19	ug/L	99
97) 4-Chlorotoluene	11.131	91	673491	54.24	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	709335	55.43	ug/L	99
99) tert-Butylbenzene	11.418	119	614611	55.70	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	714842	55.83	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.534	214	207546	50.25	ug/L	98
102) sec-Butylbenzene	11.607	105	890617	57.39	ug/L	100
103) p-Isopropyltoluene	11.741	119	764609	57.45	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9863.D
Acq On : 11 Sep 2019 4:56 pm
Operator : F.NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:03:47 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:03:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	419770	53.67	ug/L	99
105) 1,4-Dclbenz	11.759	146	419749	52.21	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	186755	49.55	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	206870	48.89	ug/L	98
108) n-Butylbenzene	12.076	91	674781	59.13	ug/L	100
109) 1,2-Dclbenz	12.064	146	413733	53.30	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	71051	54.79	ug/L	97
111) Trielution Dichlorotol...	12.826	125	1009552	151.95	ug/L	98
112) 1,3,5-Trichlorobenzene	12.875	180	287021	50.14	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	743803	101.66	ug/L	98
114) 1,2,4-Tcbenzene	13.362	180	300707	53.94	ug/L	99
115) Hexachlorobt	13.509	225	137017	59.00	ug/L	98
116) Naphthalen	13.551	128	927977	54.93	ug/L	99
117) 1,2,3-Tclbenzene	13.740	180	298333	54.04	ug/L	98
118) 2,4,5-Trichlorotoluene	14.332	159	196061	55.75	ug/L	99
119) 2,3,6-Trichlorotoluene	14.417	159	205856	55.56	ug/L	98

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

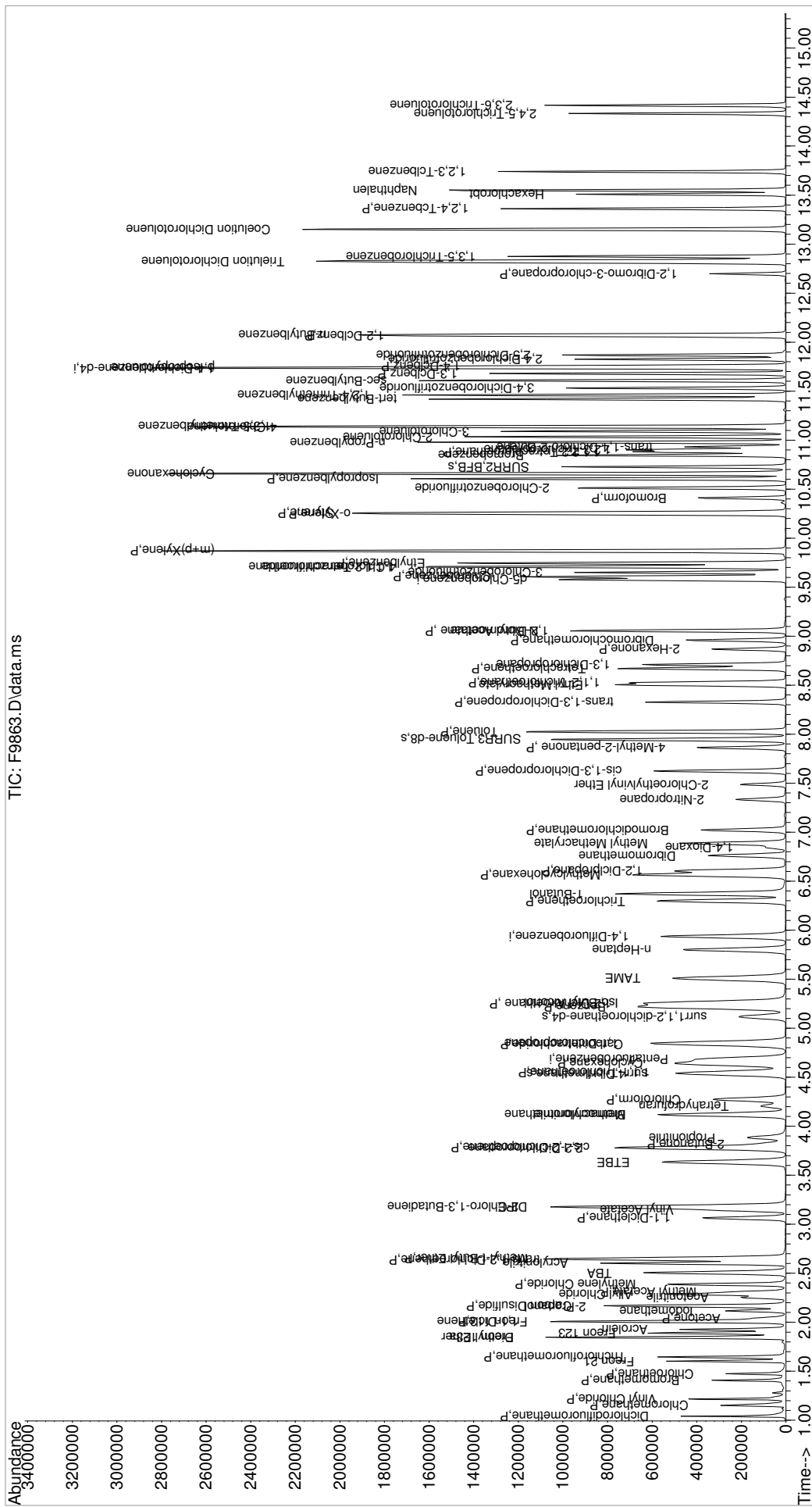
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\091119\
Data File	:	F9863.D
Acq On	:	11 Sep 2019 4:56 pm
Operator	:	F.NAEGLER
Sample	:	50 PPB STD
Misc	:	
ALS Vial	:	7 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 09:03:47 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:03:18 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9864.D
 Acq On : 11 Sep 2019 5:18 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:07:11 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:04:45 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	380846	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	571557	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	487143	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	259836	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	358010	95.84	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	191.68%#
47) surr1,1,2-dichloroetha...	5.114	65	419534	94.83	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	189.66%#
64) SURR3,Toluene-d8	7.949	98	1367055	94.82	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	189.64%#
69) SURR2,BFB	10.729	95	509197	92.27	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	184.54%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	441757	97.88	ug/L	100
3) Chloromethane	1.152	50	461948	97.75	ug/L	99
4) Vinyl Chloride	1.212	62	499335	103.85	ug/L	99
5) Bromomethane	1.401	94	161381	54.73	ug/L	98
6) Chloroethane	1.468	64	271450	97.80	ug/L	100
7) Freon 21	1.603	67	620019	93.49	ug/L	100
8) Trichlorofluoromethane	1.639	101	537511	98.59	ug/L	99
9) Diethyl Ether	1.846	59	334000	92.87	ug/L	99
10) Freon 123a	1.840	67	410005	94.73	ug/L	95
11) Freon 123	1.889	83	476020	96.85	ug/L	99
12) Acrolein	1.926	56	499071	456.68	ug/L	97
13) 1,1-Dicethene	2.005	96	337241	99.75	ug/L	94
14) Freon 113	2.011	101	337129	102.47	ug/L	94
15) Acetone	2.042	43	192957	82.23	ug/L	99
16) 2-Propanol	2.170	45	812432	1878.04	ug/L	99
17) Iodomethane	2.115	142	451045	129.76	ug/L	99
18) Carbon Disulfide	2.170	76	934776	98.18	ug/L	100
19) Acetonitrile	2.255	41	249740	409.68	ug/L	97
20) Allyl Chloride	2.285	76	176276	92.40	ug/L	92
21) Methyl Acetate	2.310	43	390056	90.31	ug/L	99
22) Methylene Chloride	2.383	84	364103	88.06	ug/L	95
23) TBA	2.511	59	1313293	1886.05	ug/L	99
24) Acrylonitrile	2.602	53	1007169	470.59	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	1209771	94.14	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	360481	95.83	ug/L	99
27) 1,1-Dicethane	3.060	63	661594	97.73	ug/L	99
28) Vinyl Acetate	3.145	86	90524	106.80	ug/L	# 92
29) DIPE	3.182	45	1171288	93.28	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.169	53	496785	95.97	ug/L	100
31) ETBE	3.633	59	1142384	93.08	ug/L	99
32) 2,2-Dichloropropane	3.773	77	555334	103.20	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	404963	96.15	ug/L	99
34) 2-Butanone	3.822	43	268028	91.44	ug/L	99
35) Propionitrile	3.889	54	408522	473.97	ug/L	100
36) Bromochloromethane	4.120	130	261353	91.33	ug/L	98
37) Methacrylonitrile	4.120	67	212307	91.14	ug/L	94
38) Tetrahydrofuran	4.206	42	168561	76.48	ug/L	94
39) Chloroform	4.273	83	625522	88.83	ug/L	99
40) 1,1,1-Trichloroethane	4.541	97	563582	101.41	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9864.D
 Acq On : 11 Sep 2019 5:18 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:07:11 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:04:45 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	1118494	93.60	ug/L	100
43) Cyclohexane	4.639	41	346548	95.07	ug/L	99
45) Carbontetrachloride	4.834	117	494650	103.12	ug/L	96
46) 1,1-Dichloropropene	4.846	75	496100	100.07	ug/L	98
48) Benzene	5.218	78	1440805	95.72	ug/L	99
49) 1,2-Dichloroethane	5.254	62	516841	91.21	ug/L	99
50) Iso-Butyl Alcohol	5.273	43	603291	1974.94	ug/L	97
51) n-Heptane	5.803	43	479856	108.16	ug/L	100
52) 1-Butanol	6.382	56	958473	5226.72	ug/L	100
53) Trichloroethene	6.297	130	425506	97.56	ug/L	98
54) Methylcyclohexane	6.565	55	477439	98.12	ug/L	99
55) 1,2-Dicloropropane	6.608	63	388853	94.60	ug/L	97
56) Dibromomethane	6.760	93	250280	89.77	ug/L	98
57) 1,4-Dioxane	6.852	88	149157	1860.61	ug/L	92
58) Methyl Methacrylate	6.888	69	353622	96.32	ug/L	98
59) Bromodichloromethane	7.022	83	472314	94.13	ug/L	99
60) 2-Nitropropane	7.333	41	254288	203.92	ug/L	98
61) 2-Chloroethylvinyl Ether	7.486	63	166704	95.44	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	622901	99.66	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	490502	93.78	ug/L	98
65) Toluene	8.022	91	1526488	95.06	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	579076	101.04	ug/L	99
67) Ethyl Methacrylate	8.504	69	612998	98.87	ug/L	100
68) 1,1,2-Trichloroethane	8.528	97	365920	90.54	ug/L	98
71) Tetrachloroethene	8.668	164	318586	102.21	ug/L	97
72) 2-Hexanone	8.870	43	366475	97.59	ug/L	99
73) 1,3-Dichloropropane	8.711	76	625646	93.70	ug/L	97
74) Dibromochloromethane	8.961	129	401752	102.30	ug/L	99
75) N-Butyl Acetate	9.052	43	737707	100.90	ug/L	100
76) 1,2-Dibromoethane	9.058	107	389746	94.64	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	550332	96.75	ug/L	99
78) Chlorobenzene	9.607	112	1001813	95.53	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	494981	96.17	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	375074	101.42	ug/L	100
81) Ethylbenzene	9.747	106	530410	98.52	ug/L	98
82) (m+p)Xylene	9.869	106	1307399	198.24	ug/L	98
83) o-Xylene	10.247	106	632790	97.36	ug/L	96
84) Styrene	10.266	104	1097535	99.04	ug/L	97
85) Bromoform	10.412	173	285810	104.39	ug/L	98
86) 2-Chlorobenzotrifluoride	10.516	180	524754	94.14	ug/L	96
87) Isopropylbenzene	10.607	105	1674387	100.84	ug/L	99
88) Cyclohexanone	10.662	55	1647693	1883.33	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.930	53	131386	97.34	ug/L	96
91) 1,1,2,2-Tetrachloroethane	10.881	83	483320	91.73	ug/L	99
92) Bromobenzene	10.845	156	431469	92.49	ug/L	96
93) 1,2,3-Trichloropropane	10.906	110	165643	85.66	ug/L	99
94) n-Propylbenzene	10.979	91	1854217	98.40	ug/L	99
95) 2-Chlorotoluene	11.034	91	1128987	96.47	ug/L	100
96) 3-Chlorotoluene	11.089	91	1116682	90.34	ug/L	99
97) 4-Chlorotoluene	11.131	91	1283981	95.82	ug/L	100
98) 1,3,5-Trimethylbenzene	11.143	105	1346946	96.77	ug/L	100
99) tert-Butylbenzene	11.418	119	1172234	97.43	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	1350244	97.33	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	412680	93.55	ug/L	99
102) sec-Butylbenzene	11.607	105	1700406	100.12	ug/L	100
103) p-Isopropyltoluene	11.741	119	1474835	101.25	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9864.D
 Acq On : 11 Sep 2019 5:18 pm
 Operator : F.NAEGLER
 Sample : 100 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:07:11 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:04:45 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	797046	94.77	ug/L	99
105) 1,4-Dclbenz	11.759	146	796465	92.52	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.826	214	378003	94.21	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	419698	93.10	ug/L	98
108) n-Butylbenzene	12.076	91	1306302	104.20	ug/L	98
109) 1,2-Dclbenz	12.064	146	788431	95.10	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	138319	100.51	ug/L	97
111) Trielution Dichlorotol...	12.826	125	2007426	283.44	ug/L	100
112) 1,3,5-Trichlorobenzene	12.881	180	572434	94.11	ug/L	98
113) Coelution Dichlorotoluene	13.149	125	1478544	190.15	ug/L	99
114) 1,2,4-Tcbenzene	13.363	180	583081	97.67	ug/L	98
115) Hexachlorobt	13.509	225	269991	105.51	ug/L	99
116) Naphthalen	13.552	128	1751972	97.87	ug/L	99
117) 1,2,3-Tclbenzene	13.741	180	573725	97.37	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	407817	109.51	ug/L	97
119) 2,3,6-Trichlorotoluene	14.417	159	431067	109.82	ug/L	99

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

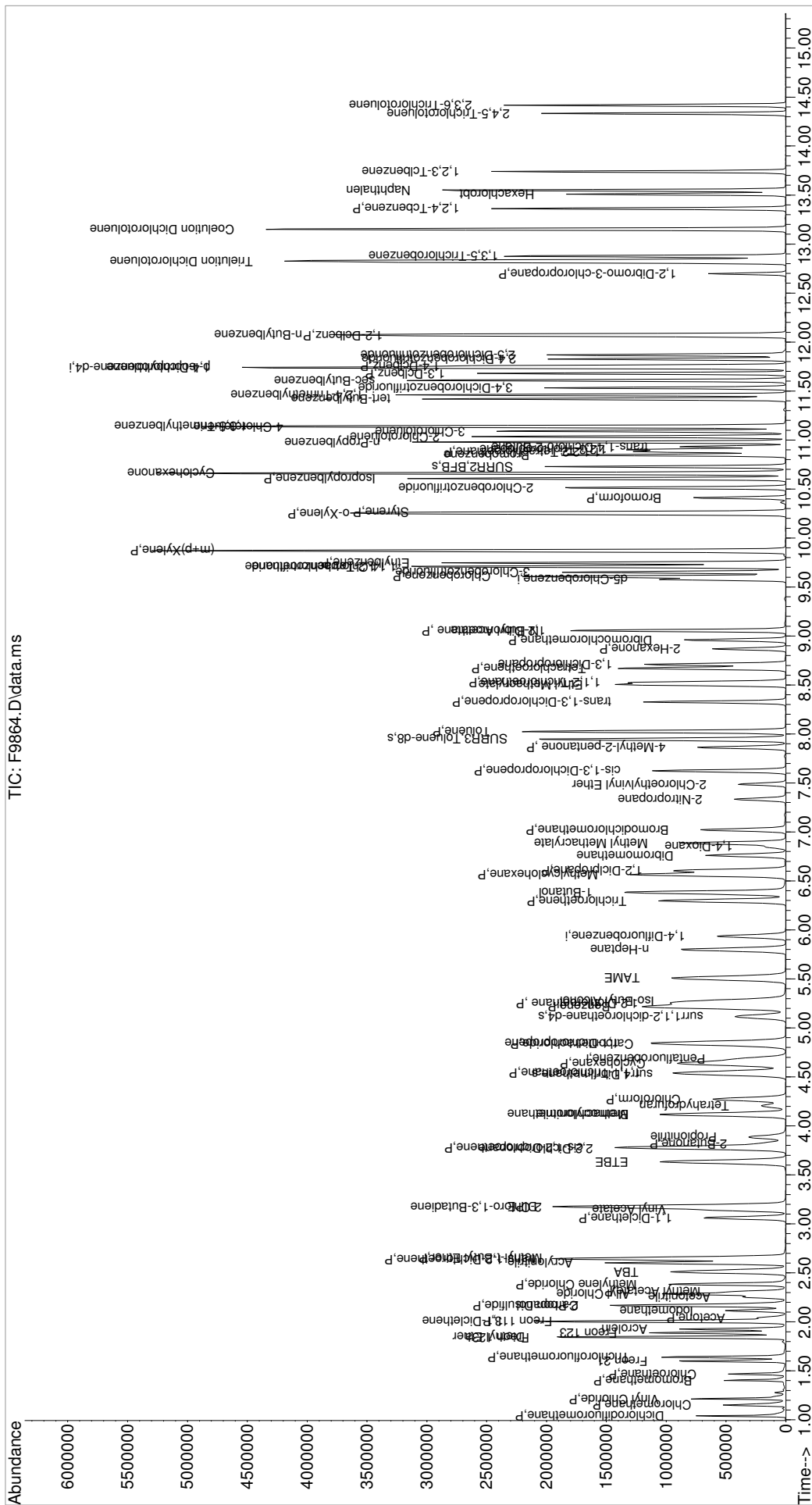
Quantitation Report (QT Reviewed)

Data Path	:	:	I:\ACQUDATA\MSV0A14\Data\0911119\
Data File	:	:	F9864.D
Acq On	:	:	11 Sep 2019 5:18 pm
Operator	:	:	F.NAEGLER
Sample	:	:	100 PPB STD
Misc	:	:	
ALS Vial	:	:	8 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 09:07:11 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:04:45 2019
Response via : Initial Calibration



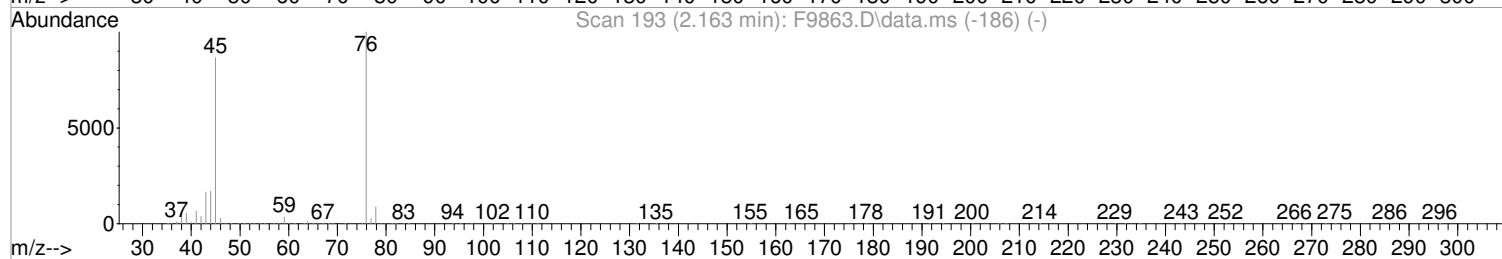
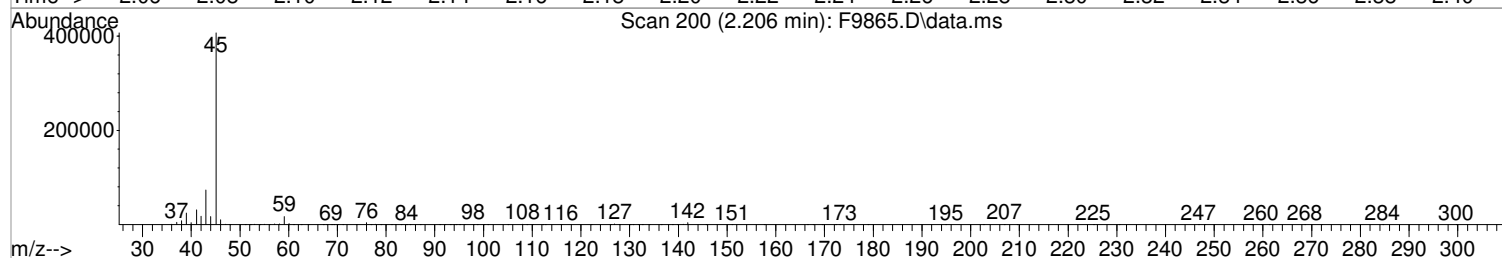
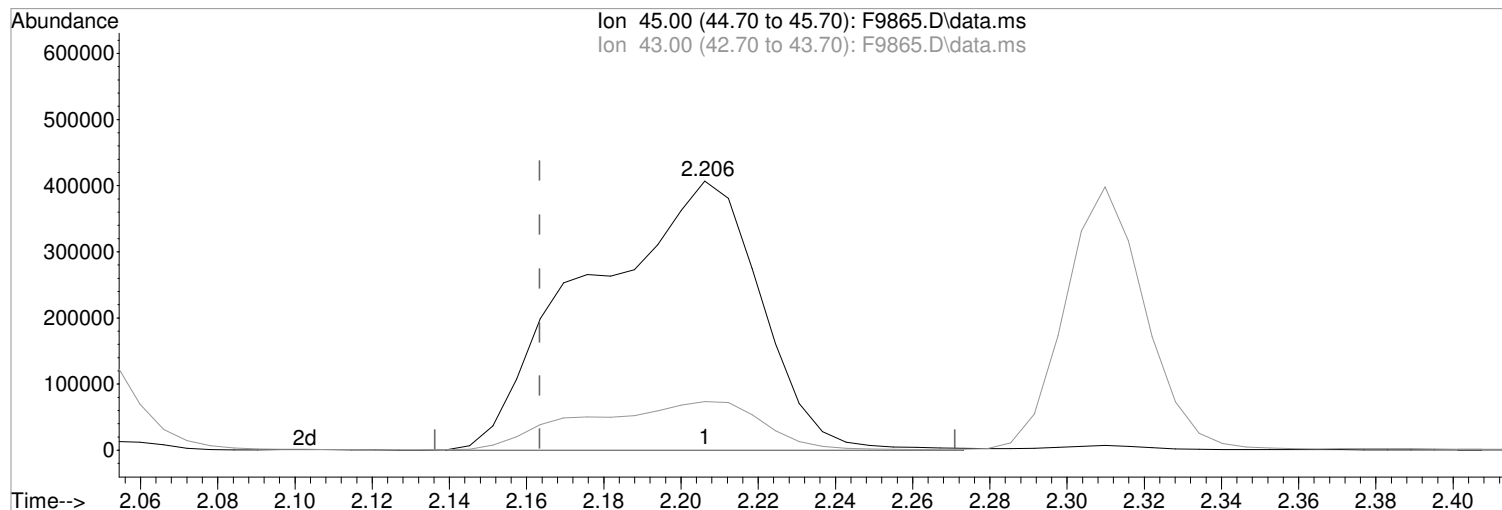
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9865.D
Acq On : 11 Sep 2019 5:41 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:08:47 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:08:30 2019
Response via : Initial Calibration



TIC: F9865.D\data.ms

(16) 2-Propanol

2.206min (+0.043) 3012.70 ug/L m

response 1255713

Ion	Exp%	Act%
45.00	100	100
43.00	19.20	18.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/16/19

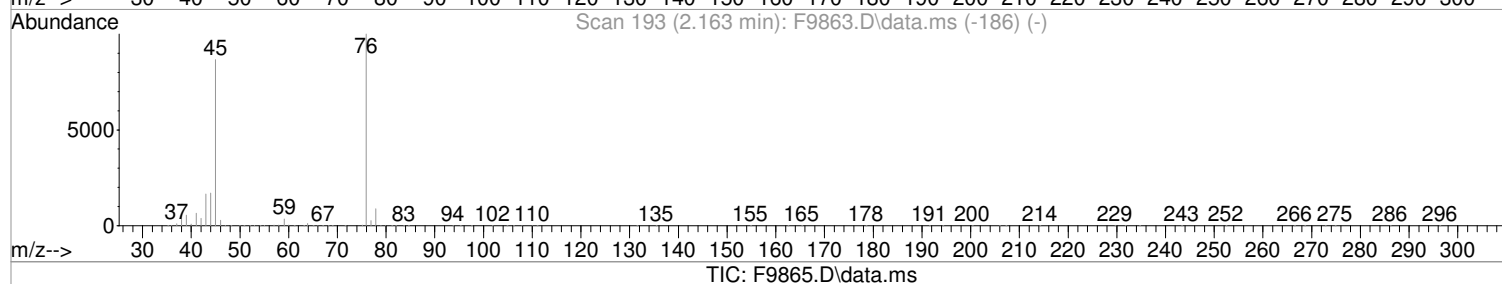
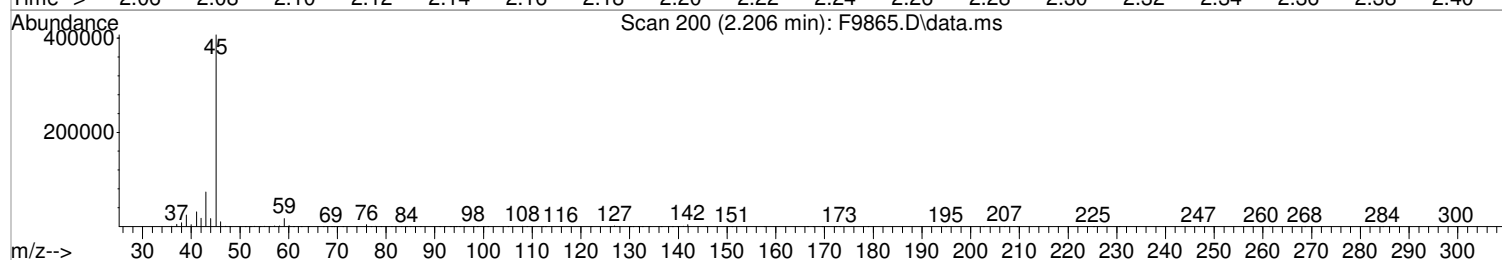
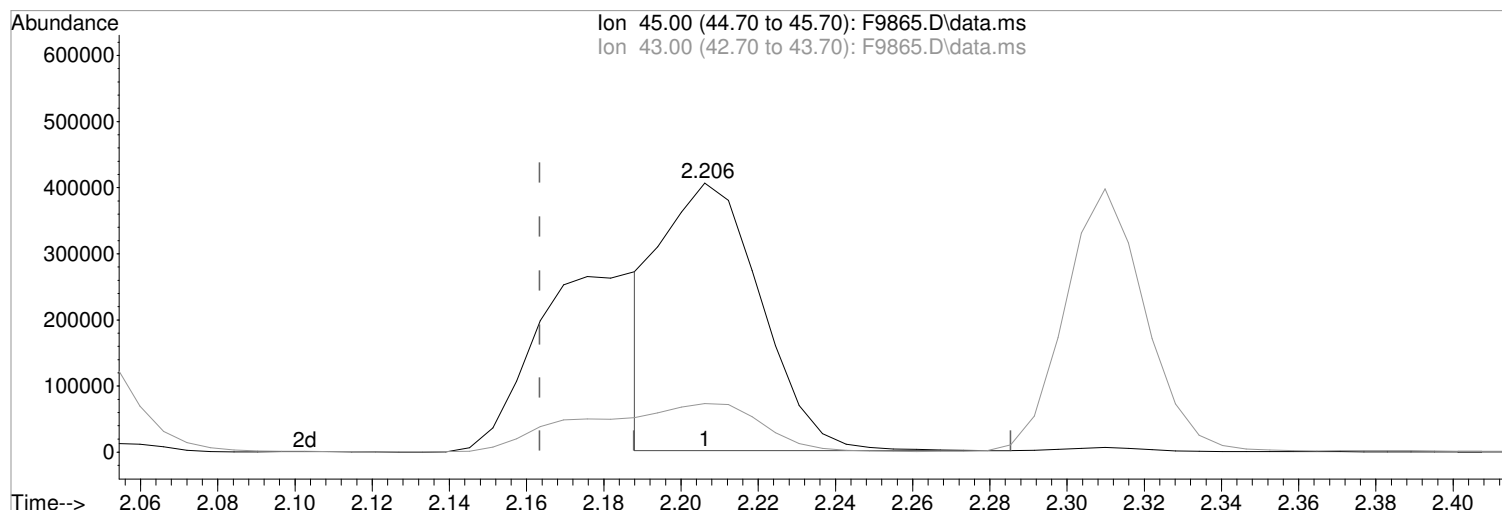
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9865.D
Acq On : 11 Sep 2019 5:41 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:08:47 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:08:30 2019
Response via : Initial Calibration



(16) 2-Propanol

Manual Integration:

2.206min (+0.043) 1753.98 ug/L

Before

response 731071

Ion	Exp%	Act%
45.00	100	100
43.00	19.20	18.07
0.00	0.00	0.00
0.00	0.00	0.00

09/16/19

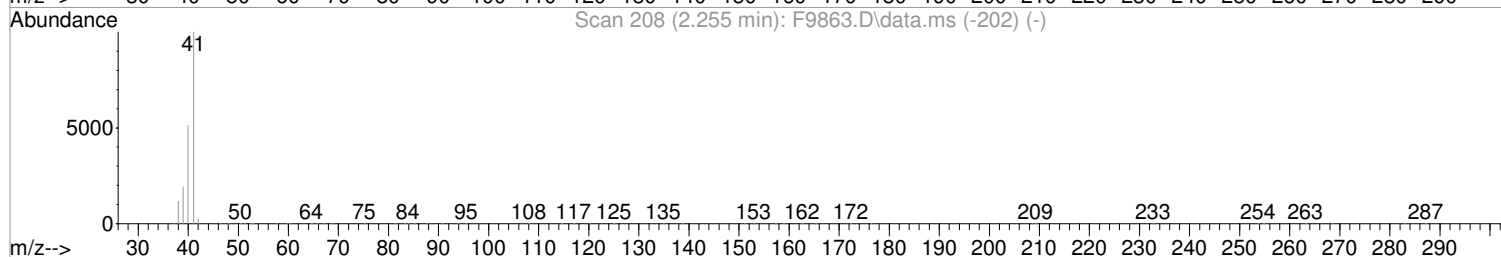
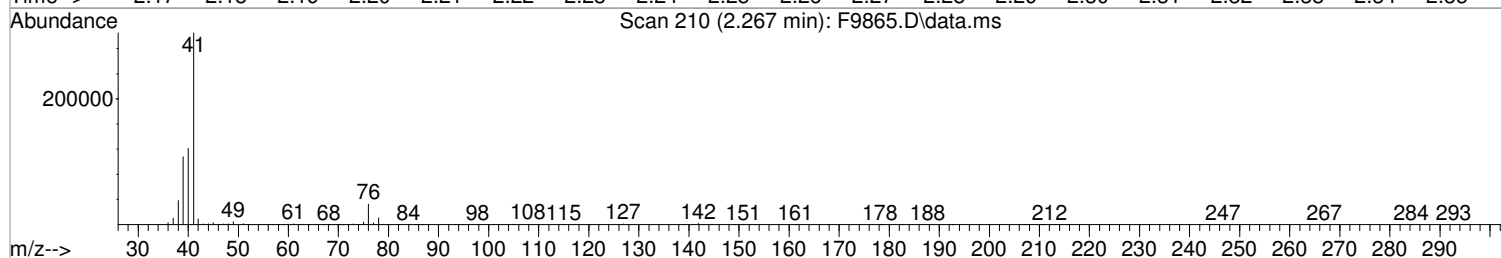
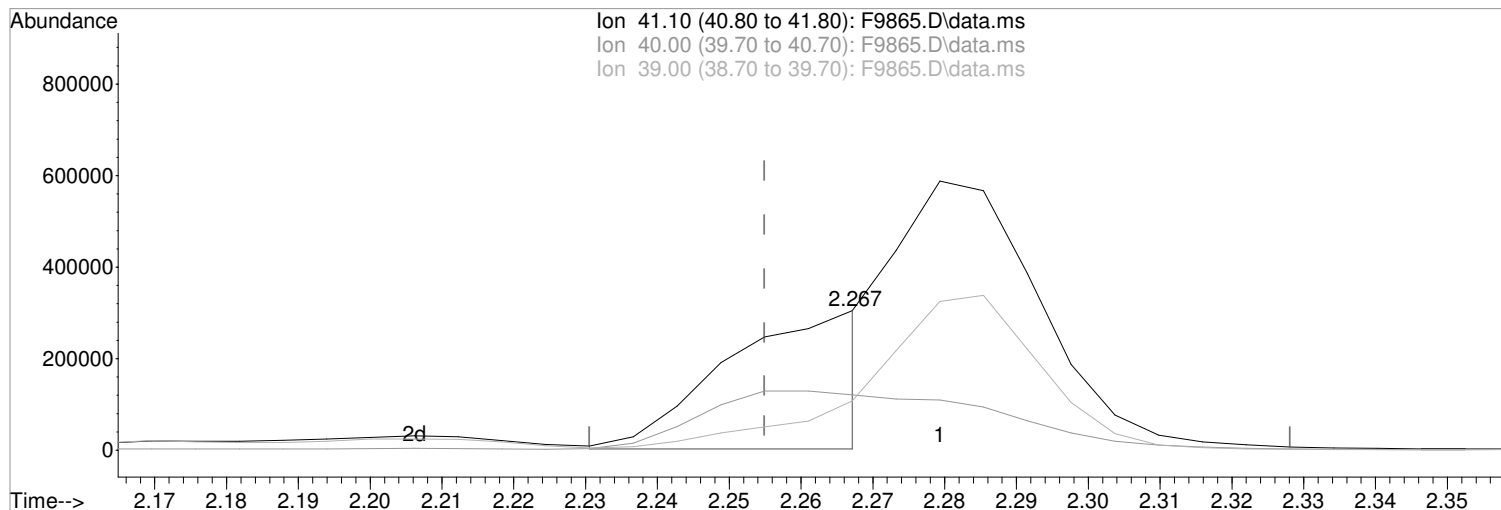
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9865.D
Acq On : 11 Sep 2019 5:41 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:08:47 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:08:30 2019
Response via : Initial Calibration



TIC: F9865.D\data.ms

(19) Acetonitrile

2.267min (+0.012) 705.79 ug/L m

response 409755

Ion	Exp%	Act%
41.10	100	100
40.00	51.40	39.72
39.00	19.40	35.32
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

09/16/19

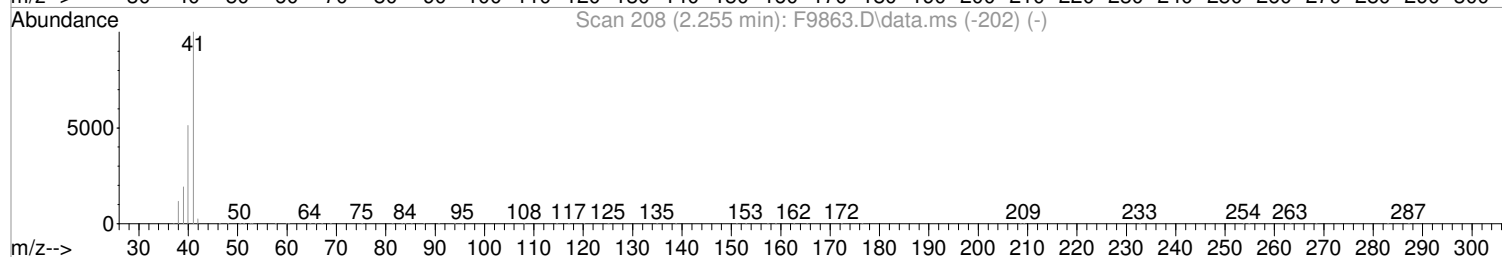
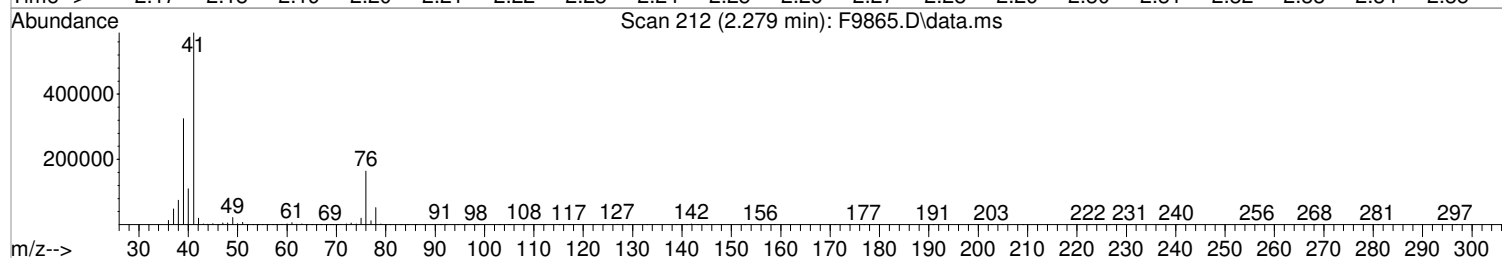
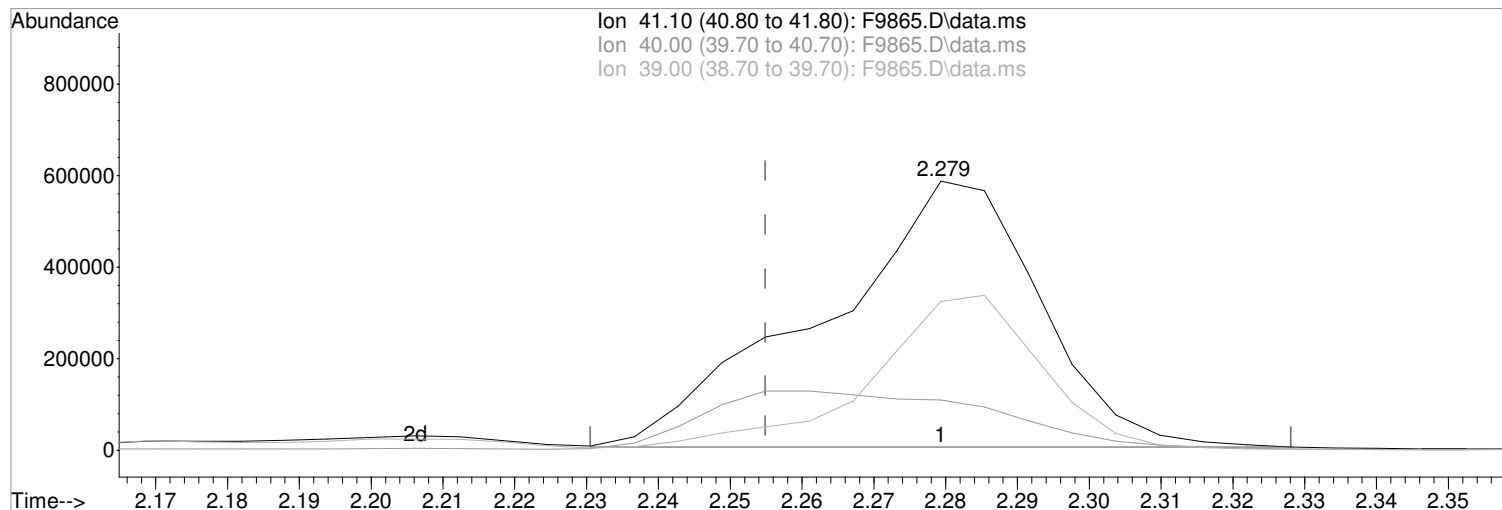
Quantitation Report (Qedit)

1st *FJ* 09/16/19
2nd *RL* 09/16/19

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
Data File : F9865.D
Acq On : 11 Sep 2019 5:41 pm
Operator : F.NAEGLER
Sample : 150 PPB STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:08:47 2019
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:08:30 2019
Response via : Initial Calibration



TIC: F9865.D\data.ms

(19) Acetonitrile

Manual Integration:

2.279min (+0.024) 2104.40 ug/L

Before

response 1221729

Ion Exp% Act%

09/16/19

41.10 100 100

40.00 51.40 18.71#

39.00 19.40 55.34#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9865.D
 Acq On : 11 Sep 2019 5:41 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:09:21 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:08:30 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.681	168	370319	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	556282	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	472776	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	262467	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	654080	181.43	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	362.86%#
47) surr1,1,2-dichloroetha...	5.114	65	761892	179.58	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	359.16%#
64) SURR3,Toluene-d8	7.949	98	2476351	177.68	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	355.36%#
69) SURR2,BFB	10.729	95	948726	178.96	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	357.92%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	649192	150.09	ug/L	99
3) Chloromethane	1.152	50	706515	151.06	ug/L	98
4) Vinyl Chloride	1.212	62	729909	153.21	ug/L	99
5) Bromomethane	1.401	94	233308	80.78	ug/L	99
6) Chloroethane	1.462	64	324918	119.33	ug/L	99
7) Freon 21	1.597	67	909345	139.99	ug/L	99
8) Trichlorofluoromethane	1.633	101	766568	143.83	ug/L	100
9) Diethyl Ether	1.846	59	475445	136.09	ug/L	99
10) Freon 123a	1.840	67	595115	139.38	ug/L	97
11) Freon 123	1.889	83	683143	140.77	ug/L	98
12) Acrolein	1.926	56	733384	692.64	ug/L	97
13) 1,1-Dicethene	1.999	96	481594	144.98	ug/L	96
14) Freon 113	2.005	101	483749	148.16	ug/L	99
15) Acetone	2.048	43	286771	125.23	ug/L	99
16) 2-Propanol	2.206	45	1255713m	3012.70	ug/L	
17) Iodomethane	2.115	142	658748	194.75	ug/L	99
18) Carbon Disulfide	2.164	76	1354757	145.02	ug/L	99
19) Acetonitrile	2.267	41	409755m	705.79	ug/L	
20) Allyl Chloride	2.285	76	252253	135.49	ug/L	98
21) Methyl Acetate	2.310	43	573645	137.94	ug/L	99
22) Methylene Chloride	2.383	84	518161	128.93	ug/L	98
23) TBA	2.517	59	2008791	2998.44	ug/L	98
24) Acrylonitrile	2.602	53	1466238	705.72	ug/L	100
25) Methyl-t-Butyl Ether	2.651	73	1731598	138.87	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	514310	139.61	ug/L	97
27) 1,1-Dicethane	3.060	63	943159	142.28	ug/L	100
28) Vinyl Acetate	3.145	86	133778	160.34	ug/L	# 83
29) DIPE	3.182	45	1681145	137.08	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.169	53	718749	141.93	ug/L	98
31) ETBE	3.633	59	1656730	138.78	ug/L	99
32) 2,2-Dichloropropane	3.773	77	781952	146.85	ug/L	98
33) cis-1,2-Dichloroethene	3.779	96	574955	139.98	ug/L	98
34) 2-Butanone	3.822	43	404937	142.69	ug/L	99
35) Propionitrile	3.889	54	610668	733.86	ug/L	98
36) Bromochloromethane	4.114	130	375767	136.03	ug/L	98
37) Methacrylonitrile	4.120	67	309533	137.20	ug/L	100
38) Tetrahydrofuran	4.206	42	244233	114.11	ug/L	98
39) Chloroform	4.273	83	889676	130.02	ug/L	100
40) 1,1,1-Trichloroethane	4.547	97	812369	148.95	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9865.D
 Acq On : 11 Sep 2019 5:41 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:09:21 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:08:30 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	1623600	139.72	ug/L	99
43) Cyclohexane	4.633	41	505092	139.71	ug/L	100
45) Carbontetrachloride	4.834	117	715223	151.06	ug/L	96
46) 1,1-Dichloropropene	4.846	75	713249	146.02	ug/L	97
48) Benzene	5.212	78	2067775	140.79	ug/L	99
49) 1,2-Dichloroethane	5.254	62	743170	136.48	ug/L	99
50) Iso-Butyl Alcohol	5.309	43	944376	3197.94	ug/L	98
51) n-Heptane	5.797	43	687126	153.44	ug/L	99
52) 1-Butanol	6.407	56	1527717	8696.47	ug/L	100
53) Trichloroethene	6.297	130	603318	140.79	ug/L	97
54) Methylcyclohexane	6.565	55	686510	141.98	ug/L	98
55) 1,2-Dicloropropane	6.608	63	557131	139.13	ug/L	99
56) Dibromomethane	6.760	93	360497	134.51	ug/L	97
57) 1,4-Dioxane	6.858	88	228509	2995.88	ug/L	94
58) Methyl Methacrylate	6.888	69	517831	145.67	ug/L	99
59) Bromodichloromethane	7.022	83	676874	139.74	ug/L	99
60) 2-Nitropropane	7.339	41	373802	305.67	ug/L	98
61) 2-Chloroethylvinyl Ether	7.486	63	252643	156.36	ug/L	93
62) cis-1,3-Dichloropropene	7.626	75	896034	147.69	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	732303	145.42	ug/L	98
65) Toluene	8.028	91	2199242	140.80	ug/L	98
66) trans-1,3-Dichloropropene	8.327	75	837929	150.70	ug/L	99
67) Ethyl Methacrylate	8.504	69	897061	149.81	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	525340	135.27	ug/L	99
71) Tetrachloroethene	8.674	164	452347	147.68	ug/L	97
72) 2-Hexanone	8.870	43	562159	155.31	ug/L	100
73) 1,3-Dichloropropane	8.711	76	906222	140.46	ug/L	97
74) Dibromochloromethane	8.961	129	590060	155.17	ug/L	99
75) N-Butyl Acetate	9.052	43	1099852	154.60	ug/L	99
76) 1,2-Dibromoethane	9.058	107	564291	142.49	ug/L	99
77) 3-Chlorobenzotrifluoride	9.650	180	806934	145.86	ug/L	99
78) Chlorobenzene	9.607	112	1455333	142.76	ug/L	99
79) 4-Chlorobenzotrifluoride	9.711	180	722865	144.40	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.705	131	548723	152.22	ug/L	100
81) Ethylbenzene	9.747	106	774618	147.34	ug/L	96
82) (m+p)Xylene	9.869	106	1912682	297.65	ug/L	99
83) o-Xylene	10.247	106	933946	147.99	ug/L	100
84) Styrene	10.266	104	1625478	151.42	ug/L	96
85) Bromoform	10.412	173	431270	163.17	ug/L	99
86) 2-Chlorobenzotrifluoride	10.516	180	786469	145.78	ug/L	97
87) Isopropylbenzene	10.607	105	2474766	152.42	ug/L	100
88) Cyclohexanone	10.662	55	2546693	3060.74	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	204985	158.85	ug/L	89
91) 1,1,2,2-Tetrachloroethane	10.881	83	745508	142.48	ug/L	99
92) Bromobenzene	10.851	156	643695	136.81	ug/L	91
93) 1,2,3-Trichloropropane	10.906	110	253203	131.84	ug/L	100
94) n-Propylbenzene	10.979	91	2766188	143.95	ug/L	99
95) 2-Chlorotoluene	11.034	91	1689018	141.97	ug/L	98
96) 3-Chlorotoluene	11.095	91	1677716	134.36	ug/L	98
97) 4-Chlorotoluene	11.131	91	1929116	141.96	ug/L	100
98) 1,3,5-Trimethylbenzene	11.143	105	2029066	143.10	ug/L	100
99) tert-Butylbenzene	11.418	119	1772200	144.38	ug/L	98
100) 1,2,4-Trimethylbenzene	11.460	105	2050416	145.58	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	634001	142.29	ug/L	99
102) sec-Butylbenzene	11.607	105	2605776	150.26	ug/L	99
103) p-Isopropyltoluene	11.741	119	2269982	152.38	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9865.D
 Acq On : 11 Sep 2019 5:41 pm
 Operator : F.NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:09:21 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:08:30 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	1213712	142.57	ug/L	98
105) 1,4-Dclbenz	11.759	146	1225189	140.95	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	583137	143.96	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	650380	142.96	ug/L	98
108) n-Butylbenzene	12.076	91	2033639	158.33	ug/L	99
109) 1,2-Dclbenz	12.064	146	1216318	145.64	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.698	157	220759	160.72	ug/L	97
111) Trielution Dichlorotol...	12.826	125	3153045	441.48	ug/L	99
112) 1,3,5-Trichlorobenzene	12.875	180	892001	145.77	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	2305533	294.68	ug/L	97
114) 1,2,4-Tcbenzene	13.363	180	895655	148.83	ug/L	100
115) Hexachlorobt	13.509	225	417074	158.60	ug/L	98
116) Naphthalen	13.552	128	2681024	150.08	ug/L	99
117) 1,2,3-Tclbenzene	13.741	180	880188	148.73	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	643024	171.56	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	665880	168.16	ug/L	98

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

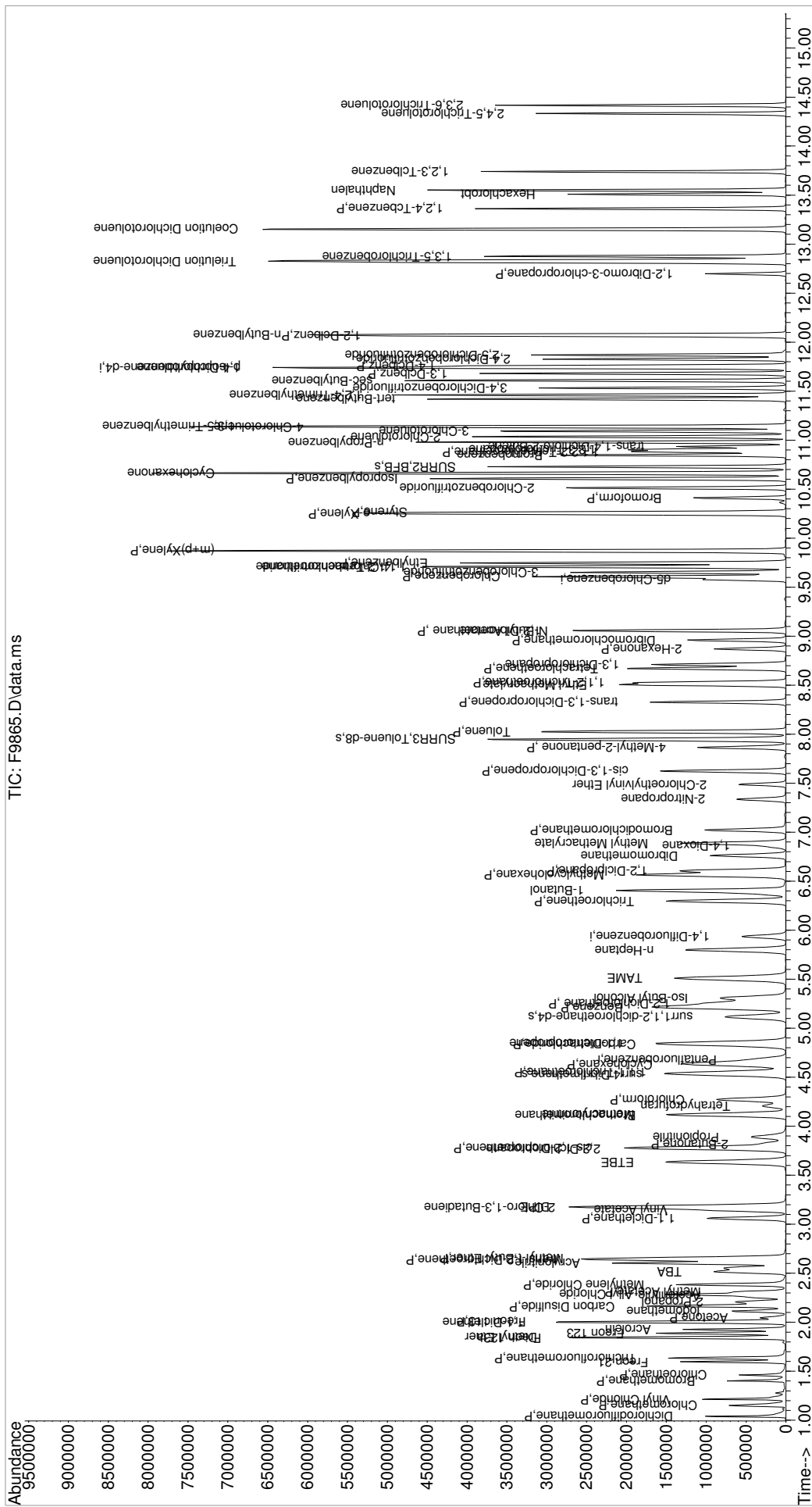
Quantitation Report (QT Reviewed)

Data Path	:	I:\ACQUDATA\MSV0A14\Data\091119\
Data File	:	F9865.D
Acq On	:	11 Sep 2019 5:41 pm
Operator	:	F.NAEGLER
Sample	:	150 PPB STD
Misc	:	
ALS Vial	:	9 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 09:09:21 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:08:30 2019
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9866.D
 Acq On : 11 Sep 2019 6:03 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:10:21 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:10:11 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.687	168	351040	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	526414	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.577	117	467567	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	256564	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	169309	50.29	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.58%
47) surr1,1,2-dichloroetha...	5.114	65	194297	49.38	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	98.76%
64) SURR3,Toluene-d8	7.949	98	650720	49.98	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	99.96%
69) SURR2,BFB	10.729	95	257315	52.32	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	104.64%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	896342	219.92	ug/L	98
3) Chloromethane	1.152	50	962125	211.91	ug/L	99
4) Vinyl Chloride	1.212	62	999752	216.35	ug/L	99
5) Bromomethane	1.401	94	337659	130.87	ug/L	98
6) Chloroethane	1.469	64	535906	203.95	ug/L	100
7) Freon 21	1.603	67	1255291	201.03	ug/L	100
8) Trichlorofluoromethane	1.639	101	1045869	204.90	ug/L	99
9) Diethyl Ether	1.847	59	644070	194.88	ug/L	99
10) Freon 123a	1.840	67	806869	194.55	ug/L	93
11) Freon 123	1.889	83	928411	197.16	ug/L	99
12) Acrolein	1.926	56	1020212	1018.56	ug/L	98
13) 1,1-Dicethene	2.005	96	652682	204.61	ug/L	94
14) Freon 113	2.011	101	654800	206.09	ug/L	96
15) Acetone	2.042	43	400721	183.75	ug/L	99
16) 2-Propanol	2.176	45	1766610	4508.79	ug/L	98
17) Iodomethane	2.115	142	965683	295.46	ug/L	100
18) Carbon Disulfide	2.170	76	1856967	206.03	ug/L	100
19) Acetonitrile	2.255	41	636001	1164.73	ug/L	100
20) Allyl Chloride	2.285	76	284629	160.78	ug/L	98
21) Methyl Acetate	2.310	43	791076	202.67	ug/L	98
22) Methylene Chloride	2.383	84	718070	188.78	ug/L	98
23) TBA	2.517	59	2850453	4547.83	ug/L	98
24) Acrylonitrile	2.602	53	2048472	1043.92	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	2383559	202.46	ug/L	100
26) trans-1,2-Dichloroethene	2.639	96	707768	200.92	ug/L	97
27) 1,1-Dicethane	3.066	63	1285865	202.93	ug/L	99
28) Vinyl Acetate	3.145	86	170682	211.77	ug/L	# 87
29) DIPE	3.182	45	2294427	196.48	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.169	53	979101	200.80	ug/L	99
31) ETBE	3.633	59	2264337	200.12	ug/L	98
32) 2,2-Dichloropropane	3.779	77	1057694	205.78	ug/L	99
33) cis-1,2-Dichloroethene	3.779	96	791022	202.55	ug/L	98
34) 2-Butanone	3.822	43	558123	207.52	ug/L	99
35) Propionitrile	3.889	54	859612	1098.45	ug/L	100
36) Bromochloromethane	4.120	130	516951	198.98	ug/L	99
37) Methacrylonitrile	4.120	67	430359	202.29	ug/L	100
38) Tetrahydrofuran	4.206	42	347202	171.78	ug/L	98
39) Chloroform	4.273	83	1222985	188.47	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	1106703	211.05	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9866.D
 Acq On : 11 Sep 2019 6:03 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:10:21 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:10:11 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	2227460	202.45	ug/L	99
43) Cyclohexane	4.639	41	686897	195.85	ug/L	100
45) Carbontetrachloride	4.840	117	989461	216.59	ug/L	97
46) 1,1-Dichloropropene	4.846	75	979395	208.15	ug/L	97
48) Benzene	5.218	78	2839452	203.25	ug/L	99
49) 1,2-Dichloroethane	5.260	62	1017323	199.94	ug/L	99
50) Iso-Butyl Alcohol	5.285	43	1331967	4796.86	ug/L	99
51) n-Heptane	5.803	43	937009	211.73	ug/L	99
52) 1-Butanol	6.401	56	2155828	13194.72	ug/L	99
53) Trichloroethene	6.297	130	830424	202.40	ug/L	97
54) Methylcyclohexane	6.565	55	943956	201.27	ug/L	97
55) 1,2-Dicloropropane	6.608	63	765251	201.65	ug/L	99
56) Dibromomethane	6.760	93	500338	200.06	ug/L	98
57) 1,4-Dioxane	6.852	88	320226	4541.98	ug/L	95
58) Methyl Methacrylate	6.888	69	720584	215.85	ug/L	98
59) Bromodichloromethane	7.022	83	942738	207.58	ug/L	100
60) 2-Nitropropane	7.339	41	539900	467.12	ug/L	100
61) 2-Chloroethylvinyl Ether	7.486	63	347751	239.53	ug/L	94
62) cis-1,3-Dichloropropene	7.626	75	1243432	217.48	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	1019543	216.24	ug/L	97
65) Toluene	8.028	91	3056264	205.92	ug/L	99
66) trans-1,3-Dichloropropene	8.327	75	1177498	225.00	ug/L	99
67) Ethyl Methacrylate	8.504	69	1256451	221.76	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	732811	202.08	ug/L	99
71) Tetrachloroethene	8.674	164	633198	205.30	ug/L	98
72) 2-Hexanone	8.870	43	780830	218.81	ug/L	99
73) 1,3-Dichloropropane	8.711	76	1257694	197.98	ug/L	99
74) Dibromochloromethane	8.961	129	828443	220.83	ug/L	98
75) N-Butyl Acetate	9.059	43	1567336	222.37	ug/L	99
76) 1,2-Dibromoethane	9.059	107	790267	203.73	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	1145964	207.81	ug/L	97
78) Chlorobenzene	9.607	112	2046532	201.66	ug/L	98
79) 4-Chlorobenzotrifluoride	9.711	180	1027363	205.87	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.705	131	770109	214.37	ug/L	99
81) Ethylbenzene	9.747	106	1088382	206.59	ug/L	95
82) (m+p)Xylene	9.875	106	2686946	417.53	ug/L	99
83) o-Xylene	10.247	106	1311269	208.25	ug/L	98
84) Styrene	10.266	104	2296075	215.37	ug/L	98
85) Bromoform	10.412	173	621726	239.55	ug/L	98
86) 2-Chlorobenzotrifluoride	10.516	180	1118056	208.91	ug/L	96
87) Isopropylbenzene	10.607	105	3517506	215.19	ug/L	99
88) Cyclohexanone	10.662	55	3691586	4595.82	ug/L	100
89) trans-1,4-Dichloro-2-B...	10.936	53	287638	228.48	ug/L	88
91) 1,1,2,2-Tetrachloroethane	10.881	83	1052997	208.77	ug/L	100
92) Bromobenzene	10.851	156	908878	197.08	ug/L	94
93) 1,2,3-Trichloropropane	10.906	110	354953	191.98	ug/L	98
94) n-Propylbenzene	10.979	91	3962320	207.22	ug/L	98
95) 2-Chlorotoluene	11.034	91	2400360	203.84	ug/L	98
96) 3-Chlorotoluene	11.095	91	2365790	193.32	ug/L	98
97) 4-Chlorotoluene	11.137	91	2728662	203.21	ug/L	99
98) 1,3,5-Trimethylbenzene	11.143	105	2859573	202.94	ug/L	99
99) tert-Butylbenzene	11.424	119	2478948	202.47	ug/L	99
100) 1,2,4-Trimethylbenzene	11.460	105	2881772	206.33	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	885393	202.21	ug/L	98
102) sec-Butylbenzene	11.607	105	3634849	209.48	ug/L	99
103) p-Isopropyltoluene	11.741	119	3157565	211.68	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\091119\
 Data File : F9866.D
 Acq On : 11 Sep 2019 6:03 pm
 Operator : F.NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Sep 16 09:10:21 2019
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W091119.m
 Quant Title : MS#14 - 8260 WATERS 5mL Purge
 QLast Update : Mon Sep 16 09:10:11 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.680	146	1692121	201.67	ug/L	99
105) 1,4-Dclbenz	11.759	146	1712810	200.47	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.826	214	821419	206.52	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.869	214	905381	202.80	ug/L	99
108) n-Butylbenzene	12.076	91	2849182	220.98	ug/L	99
109) 1,2-Dclbenz	12.064	146	1687039	205.96	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.698	157	318700	239.63	ug/L	98
111) Trielution Dichlorotol...	12.832	125	4417983	631.26	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	1247615	208.46	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	3203413	419.05	ug/L	97
114) 1,2,4-Tcbenzene	13.363	180	1253260	211.66	ug/L	100
115) Hexachlorobt	13.509	225	582244	219.27	ug/L	98
116) Naphthalen	13.552	128	3802776	219.57	ug/L	99
117) 1,2,3-Tclbenzene	13.741	180	1233118	212.82	ug/L	99
118) 2,4,5-Trichlorotoluene	14.332	159	894111	243.70	ug/L	98
119) 2,3,6-Trichlorotoluene	14.417	159	927600	239.16	ug/L	99

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

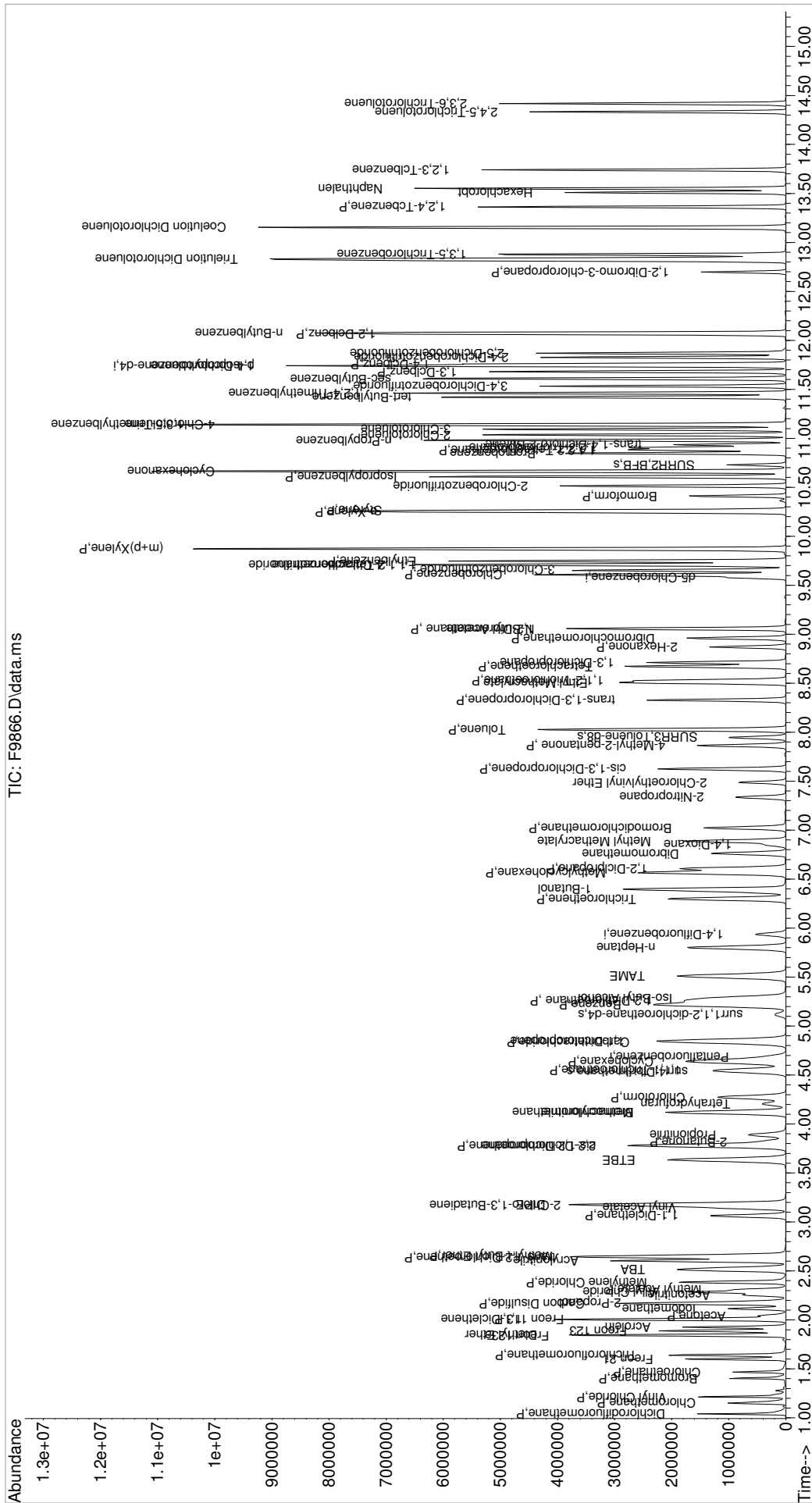
Quantitation Report (QT Reviewed)

Data Path	:	:	I:\ACQUDATA\MSV0A14\Data\091119\
Data File	:	:	F9866.D
Acq On	:	:	11 Sep 2019 6:03 pm
Operator	:	:	F.NAEGLER
Sample	:	:	200 PPB STD
Misc	:	:	
ALS Vial	:	:	10 Sample Multiplier: 1

Inst : MSV0A14

ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 09:10:21 2019
Quant Method : I:\ACQDATA\MSVOA14\Methods\W091119.m
Quant Title : MS#14 - 8260 WATERS 5mL Purge
QLast Update : Mon Sep 16 09:10:11 2019
Response via : Initial Calibration



ALS Group USA, Corp.

DBA ALS Environmental

QC/QC Report

Date Analyzed: 9/11/19 14:13

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\091119\F9856.D

Analytical Method: 8260C/624.1

Instrument ID: R-MS-14

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	17.6	32664	PASS
75	95	30	60	46.6	86453	PASS
95	95	100	100	100.0	185351	PASS
96	95	5	9	6.5	12033	PASS
173	174	0	2	0.3	550	PASS
174	95	50	120	88.7	164426	PASS
175	174	5	9	7.6	12563	PASS
176	174	95	101	97.9	161003	PASS
177	176	5	9	6.4	10226	PASS

Sample Name	Lab Code	File ID:	Date Analyzes: Q
ICALBLK	ICALBLK	I:\ACQUDATA\MSVOA14\Data\091119\F9857.D	9/11/19 14:43
0.5 PPB STD	0.5 PPB STD	I:\ACQUDATA\MSVOA14\DATA\091119\F9858.D	9/11/19 15:05
1.0 PPB STD	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9859.D	9/11/19 15:27
2.0 PPB STD	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9860.D	9/11/19 15:49
5.0 PPB STD	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9861.D	9/11/19 16:11
20 PPB STD	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9862.D	9/11/19 16:34
50 PPB STD	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9863.D	9/11/19 16:56
100 PPB STD	100 PPB STD	I:\ACQUDATA\MSVOA14\DATA\091119\F9864.D	9/11/19 17:18
150 PPB STD	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9865.D	9/11/19 17:41
200 PPB STD	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9866.D	9/11/19 18:03
50 PPB ICV	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\091119\F9869.D	9/11/19 19:10

Analysis: 8260/624 Analyst: F. Nugent pH strips: — Tune Method: W091119.M
 Date: 9/11/19 Balance ID: — ResCl strips: — Run Method: —
 Instr: MS14 50 mL Class A used for dilution FV Syringes: 190697 / 77958 LIMS Run#: —

Data Path: j:\acquadata\msv0a\InstID\X(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							F9853	Y	
2	BLK							54	Y	
3	BLK							55	Y	
4	TUNE							56	Y	
1	ICAL BLK							57	Y	
2	0.5 ppb std							58	Y	
3	1.0							59	Y	
4	2.0							60	Y	
5	5.0							61	Y	
6	20							62	Y	
7	50							63	Y	
8	100							64	Y	
9	150							65	Y	
10	200	✓						66	Y	
11	BLK							67	Y	
12	BLK							68	Y	
13	50 ppb ICV							69	Y	
14	BLK							70	Y	
15	BLK							71	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1° TKG = 202593	10µL/1mL 5µL/50µL	10µL/1mL 5µL/50µL	20µL/1mL 5µL/50µL	50µL/1mL 5µL/50µL	2mL/50µL 5µL/50µL	5mL/50µL 5µL/50µL	10mL/50µL 5µL/50µL	15mL/50µL 5µL/50µL	20mL/50µL
1° HSL = 202595	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° FC = 202534	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 202638	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 µL combined IS/Surr. 5 mL purged

Primary SEC: THREE ASSETS
 Primary Secondary: 202724 - 12.34
 Primary Secondary: 202235 - 3.4
 Primary Secondary: 202523
 Primary Secondary: 200611 - 1 (ICV)
 Combined IS/Surr: —
 Surrogate 50: 202317
 Internal Std 50: 202318
 Reagents: —

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1900103
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1900103-01	0.5 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9858.D	09/11/2019 15:05
02	RC1900103-02	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9859.D	09/11/2019 15:27
03	RC1900103-03	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9860.D	09/11/2019 15:49
04	RC1900103-04	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9861.D	09/11/2019 16:11
05	RC1900103-05	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9862.D	09/11/2019 16:34
06	RC1900103-06	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9863.D	09/11/2019 16:56
07	RC1900103-07	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9864.D	09/11/2019 17:18
08	RC1900103-08	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9865.D	09/11/2019 17:41
09	RC1900103-09	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\091119\F9866.D	09/11/2019 18:03

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7014	02	1.000	0.7378	03	2.000	0.7732	04	5.000	0.7334
05	20.000	0.7979	06	50.000	0.8077	07	100.000	0.7399	08	150.000	0.7312
09	200.000	0.7882									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9149	02	1.000	0.9161	03	2.000	0.9248	04	5.000	0.9028
05	20.000	0.9605	06	50.000	0.9551	07	100.000	0.8686	08	150.000	0.849
09	200.000	0.9158									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4704	02	1.000	0.449	03	2.000	0.4888	04	5.000	0.4455
05	20.000	0.4826	06	50.000	0.4659	07	100.000	0.4428	08	150.000	0.4335
09	200.000	0.4648									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5331	05	20.000	0.4718	06	50.000	0.459	07	100.000	0.4454
08	200.000	0.4264									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3583	05	20.000	0.3147	06	50.000	0.3188	07	100.000	0.3132
08	200.000	0.294									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3332	02	1.000	0.3164	03	2.000	0.3435	04	5.000	0.3419
05	20.000	0.347	06	50.000	0.3471	07	100.000	0.327	08	150.000	0.3189
09	200.000	0.3386									

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1900103
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.449	05	20.000	1.22	06	50.000	1.205	07	100.000	1.196
08	200.000	1.113									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4028	02	1.000	0.3567	03	2.000	0.4294	04	5.000	0.4074
05	20.000	0.4153	06	50.000	0.4114	07	100.000	0.3722	08	150.000	0.3615
09	200.000	0.3944									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6819	02	1.000	0.6537	03	2.000	0.6731	04	5.000	0.5911
05	20.000	0.7265	06	50.000	0.7172	07	100.000	0.6556	08	150.000	0.657
09	200.000	0.712									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5185	02	1.000	0.5834	03	2.000	0.5826	04	5.000	0.5605
05	20.000	0.5985	06	50.000	0.5853	07	100.000	0.5317	08	150.000	0.5175
09	200.000	0.5633									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.543	02	1.000	0.5185	03	2.000	0.5228	04	5.000	0.4946
05	20.000	0.5264	06	50.000	0.521	07	100.000	0.4733	08	150.000	0.4629
09	200.000	0.5041									

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1900103

Signal ID: 1

Instrument ID: R-MS-14

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.8	≤20	0.7567	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	3.9	≤20	0.9119	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	4.1	≤20	0.4604	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	8.7	≤20	0.4671	
Dibromofluoromethane	SURR	Average RF	% RSD	7.4	≤20	0.3198	
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	3.5	≤20	0.3348	0.200
Toluene-d8	SURR	Average RF	% RSD	10.2	≤20	1.237	
Trichloroethene (TCE)	TRG	Average RF	% RSD	6.5	≤20	0.3946	0.200
Vinyl Chloride	TRG	Average RF	% RSD	6.2	≤20	0.6742	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.5	≤20	0.5602	0.100
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	5.2	≤20	0.5074	0.100

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Calibration Date: 9/11/2019

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1900103
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1900103-10	50 PPB ICV	I:\ACQDATA\MSVOA14\Data\091119\F9869.D	09/11/2019 19:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.3	7.567E-1	7.608E-1	0.529	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	48.7	9.119E-1	8.877E-1	-2.660	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.2	4.604E-1	4.436E-1	-3.633	±30	Average RF
Tetrachloroethene (PCE)	50.0	47.5	3.348E-1	3.181E-1	-4.985	±30	Average RF
Trichloroethene (TCE)	50.0	46.1	3.946E-1	3.635E-1	-7.864	±30	Average RF
Vinyl Chloride	50.0	45.0	6.742E-1	6.072E-1	-9.948	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.8	5.602E-1	5.469E-1	-2.374	±30	Average RF
trans-1,2-Dichloroethene	50.0	46.7	5.074E-1	4.744E-1	-6.504	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	49.1	4.671E-1	4.586E-1	-1.832	±30	Average RF
Dibromofluoromethane	50.0	49.4	3.198E-1	3.158E-1	-1.245	±30	Average RF
Toluene-d8	50.0	49.2	1.237E0	1.216E0	-1.676	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/25/19 11:30

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\092519\N0221.D\
Signal ID: 1

Calibration Date: 9/11/2019
Calibration ID: RC1900103
Analysis Lot: 652819
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.7	0.7567	0.7215	-4.7	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.2	0.9119	0.9154	0.4	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.3	0.4604	0.4263	-7.4	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	45.6	0.3348	0.3054	-8.8	NA	±20	Average RF
Trichloroethene (TCE)	50.0	42.8	0.3946	0.338	-14.3	NA	±20	Average RF
Vinyl Chloride	50.0	53.4	0.6742	0.7204	6.8	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.8	0.5602	0.5466	-2.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	48.1	0.5074	0.4885	-3.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	48.5	0.4671	0.4535	-2.9	NA	±20	Average RF
Dibromofluoromethane	50.0	51.2	0.3198	0.3277	2.5	NA	±20	Average RF
Toluene-d8	50.0	50.9	1.2365	1.2596	1.9	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228
Date Analyzed: 09/26/19 12:51

**Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved**

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\092619\N0284.D\
Signal ID: 1

Calibration Date: 9/11/2019
Calibration ID: RC1900103
Analysis Lot: 653050
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.4	0.7567	0.7479	-1.2	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.7	0.9119	0.9438	3.5	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.8	0.4604	0.4493	-2.4	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	47.7	0.3348	0.3196	-4.6	NA	±20	Average RF
Trichloroethene (TCE)	50.0	44.2	0.3946	0.3491	-11.5	NA	±20	Average RF
Vinyl Chloride	50.0	52.4	0.6742	0.7068	4.8	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	49.6	0.5602	0.5553	-0.9	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.7	0.5074	0.5047	-0.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	46.6	0.4671	0.4357	-6.7	NA	±20	Average RF
Dibromofluoromethane	50.0	51.4	0.3198	0.3288	2.8	NA	±20	Average RF
Toluene-d8	50.0	50.1	1.2365	1.24	0.3	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot: 652819
Instrument ID: R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\092519\N0220.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	10:57:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0221.D\	Continuing Calibration Verification	RQ1910900-02	9/25/2019	11:30:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0222.D\	Lab Control Sample	RQ1910900-03	9/25/2019	11:57:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0224.D\	Method Blank	RQ1910900-04	9/25/2019	13:02:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0225.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	13:34:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0226.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	14:02:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0227.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	14:24:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0228.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	14:47:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0229.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	15:09:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0230.D\	MW-17 092319	R1909228-002	9/25/2019	15:31:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0232.D\	MW-8 092319	R1909228-009	9/25/2019	16:16:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0233.D\	MW-16 092319	R1909228-010	9/25/2019	16:38:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0234.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	17:01:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0235.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	17:23:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0236.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	17:45:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0237.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	18:07:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0238.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	18:30:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0240.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	19:14:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0241.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	19:37:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0242.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	19:59:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0243.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	20:21:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0244.D\	ZZZZZZZZ	ZZZZZZZZ	9/25/2019	20:43:00	
I:\ACQUDATA\MSVOA14\Data\092519\N0245.D\	MW-17 092319 MS	RQ1910900-07	9/25/2019	21:06:00	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

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

Service Request:R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:652819
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\092519 \N0246.D\	MW-17 092319 DMS	RQ1910900-08	9/25/2019	21:28:00	
I:\ACQUDATA\MSVOA14\Data\092519 \N0247.D\	ZZZZZZZ	ZZZZZZZ	9/25/2019	21:50:00	
I:\ACQUDATA\MSVOA14\Data\092519 \N0248.D\	ZZZZZZZ	ZZZZZZZ	9/25/2019	22:12:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot: 653050
Instrument ID: R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\092619\N0282.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	11:27:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0284.D\	Continuing Calibration Verification	RQ1911135-02	9/26/2019	12:51:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0285.D\	Lab Control Sample	RQ1911135-03	9/26/2019	13:28:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0287.D\	Method Blank	RQ1911135-04	9/26/2019	14:24:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0288.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	14:49:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0289.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	15:11:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0290.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	15:34:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0291.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	15:56:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0292.D\	MW-11 092319	R1909228-003	9/26/2019	16:18:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0293.D\	DUP 092319	R1909228-011	9/26/2019	16:40:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0294.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	17:03:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0295.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	17:25:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0296.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	17:47:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0297.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	18:10:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0298.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	18:32:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0299.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	18:54:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0300.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	19:16:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0301.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	19:38:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0303.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	20:19:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0304.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	20:42:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0305.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	21:04:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0306.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	21:26:00	
I:\ACQUDATA\MSVOA14\Data\092619\N0307.D\	ZZZZZZZZ	ZZZZZZZZ	9/26/2019	21:48:00	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

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

Service Request:R1909228

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method:

Analysis Lot:653050
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\092619 \N0308.D\	ZZZZZZZ	ZZZZZZZ	9/26/2019	22:11:00	

Analysis: 8260/624 Analyst: F. N. Nagesh pH strips: 207519 Tune Method: W091119-M
 Date: 9/25/19 Balance ID: ResCl strips: 010319E Run Method: J
 Instr: MS 14 50 mL Class A used for dilution FV Syringes: 192677 71958 LIMS Run#: 652819

Data Path: j:\acq\data\msvcs\InstID\Date

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUVE							107220	Y	
2	CCV							21	Y	
3	LS-VUP							22	Y	
4	MBU-VUP							23	Y	
5	MBU-VUP							24	Y	
6	R1909101-002	5.0	10/5mL	Resid Cl	2	2	(7)	25	Y	DL
7	R1909223-006	1.0		6140	3	1	(6)	26	Y	
8	J -003	2.5	20/5mL	11868	1	1	(6)	27	Y	
9	R1909224-006	1.0			1	1	(6)	28	Y	
10	J -003	2.5	20/5mL		1	1	(6)	29	Y	
11	R1909228-002	1.0		7979	4	1	(8)	30	Y	
12	J -001	1.0			1	1	(2)	31	Y	Rel-FP
13	J -009	1.0			1	1	(8)	32	Y	
14	J -010	1.0			1	1	(7)	33	Y	
15	R1909205-001	1.0		11837	2	1	(2)	34	Y	
16	R1909255-005	1.0		13189	2	1	(6)	35	Y	
17	J -002	1.0			1	1	(8)	36	Y	
18	J -003	1.0			1	1	(8)	37	Y	
19	J -004	1.0			1	1	(8)	38	Y	
20	J -001	2.5	25/5mL		1	1	(7)	39	Y	Rel V1
21	R1909208-001	1.0		18181	2	1	(6)	40	Y	
22	R1909209-001	1.0			1	1	(6)	41	Y	
23	R1909210-001	1.0			1	1	(7)	42	Y	
24	R1909211-001	1.0			1	1	(6)	43	Y	
25	R1909212-001	1.0			1	1	(6)	44	Y	
26	R1909228-006	1.0			1	1	(8)	45	Y	
27	J -002MSD	1.0		7976	4	2	(8)	46	Y	
28	R1909223-003MS	2.5	20/5mL		2	1	(6)	47	Y	
29	J -003MSD	2.5		11868	2	1	(6)	48	Y	
30	BLK							49	Y	
31	BLK							50	Y	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr. -

T16 Primary 500 : 202593 - 5mL/5mL

HPL Primary : 202595 -

FR Primary : 202534 -

OC Primary : 202638 -

FR Secondary 200 : 202724 - 5mL

HPL Secondary 500 : 202913 - 2mL

OC Secondary : 202523 -

Secondary : 202611 -

Surrogate 50 : 203125

Internal Std 50 : 203106

Reagents:

R1909223-003

SPDES Outfall 020 VOC Compositing for MPM Silicones Lab

flow rate weighted

020
 Start Time 9/20/19 5:30 PM
 End Time 9/21/19 8:00 AM
 Sample Volume Required 100 ml

Sample	020	020	020
Period Start Time	Sample No.	Grab period hours	Sample Volume Required (ml)
9/20/19 5:30 PM	1	3.0	24.4
9/20/19 8:00 PM	2	2.0	13.4
9/20/19 10:00 PM	3	2.0	8.7
9/21/19 12:00 AM	4	4.0	23.8
9/21/19 4:00 AM	5	2.0	14.7
9/21/19 6:00 AM	6	2.0	15.0
9/21/19 8:00 AM	End Time		

Total sample size ml

100.00

R1909224-003

SPDES Outfall 020 VOC Compositing for MPM Silicones Lab

flow rate weighted

020
 Start Time 9/21/19 8:00 AM
 End Time 9/22/19 8:00 AM
 Sample Volume Required 100 ml

Sample	020	020	020
Period Start Time	Sample No.	Grab period hours	Sample Volume Required (ml)
9/21/19 8:00 AM	1	4.0	14.5
9/21/19 12:00 PM	2	4.0	15.1
9/21/19 4:00 PM	3	4.0	18.8
9/21/19 8:00 PM	4	4.0	18.1
9/22/19 12:00 AM	5	4.0	16.9
9/22/19 4:00 AM	6	4.0	16.4
9/22/19 8:00 AM	End Time		

Total sample size ml

100.00

Analysis: 8260/624 Analyst: F. Magese
 Date: 9/26/19 Balance ID: -- pH strips: 207519
 Instr: MS14 50 mL Class A used for dilution FV ResC strips: 070919E Run Method: J
 Syringes: 190697/17958 LIMS Run#: 653050

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							N0281	Y	
2	TUKE							82	Y	
1	CCV							83	(N)	
1	CCV							84	Y	
2	LS-UNP							85	Y	
3	MBLK-UNP							86	(N)	
4	MBLK-UNP							87	Y	
5	R1909225-006	1.0						88	Y	
6	↓ -003	2.5	20/5mL					89	Y	
7	R1909280-006	1.0						90	Y	
8	↓ -003	2.5	20/5mL					91	Y	
9	R1909228-003	10.0	5/5mL					92	Y	unable to determine pH (dark coloration)
10	↓ -011	1.0						93	Y	
11	R1909251-002	10.0	5/5mL					94	Y	unable to determine pH (dark coloration)
12	↓ -008	10.0						95	Y	
13	↓ -010	10.0						96	Y	
14	R1909340-003	1.0						97	Y	
15	↓ -006	1.0						98	Y	
16	↓ -008	1.0						99	Y	
17	↓ -013	1.0						N0300	(N)	Rgt 1/50
18	R1909231-001	1.0						01	Y	
19	R1909255-001	1.0						02	(N)	Rgt 1/1
20	R1909232-001	1.0						03	Y	
21	R1909287-001	1.0						04	Y	
22	R1909288-001	1.0						05	Y	
23	R1909295-001	1.0						06	Y	
24	R1909275-003MS	2.5	20/5mL					07	Y	
25	↓ -003MSD	2.5						08	Y	
26	BLK							09	Y	
27	↓							10	Y	

All samples = 5 mL + 5 UL combined IS/Surr. 5 mL purged
 Combined IS/Surr. --
 Surrogate 50: 203105
 Internal Std 50: 203106
 Reagents: --
 Runlog: MSYDATA 11/7/17
 Q-1016 Page 54

R1909225-003

SPDES Outfall 020 VOC Compositing for MPM Silicones Lab

flow rate weighted

020
 Start Time 9/22/19 8:00 AM
 End Time 9/23/19 8:00 AM
 Sample Volume Required 100 ml

Sample	020	020	020
Period Start Time	Sample No.	Grab period hours	Sample Volume Required (ml)
9/22/19 8:00 AM	1	4.0	18.6
9/22/19 12:00 PM	2	4.3	18.1
9/22/19 4:15 PM	3	3.7	14.5
9/22/19 7:55 PM	4	4.1	16.3
9/23/19 12:00 AM	5	4.0	16.1
9/23/19 4:00 AM	6	4.0	16.3
9/23/19 8:00 AM	End Time		

Total sample size ml 100.00

R1909280-003

SPDES Outfall 020 VOC Compositing for MPM Silicones Lab

flow rate weighted

020
 Start Time 9/23/19 8:00 AM
 End Time 9/24/19 8:00 AM
 Sample Volume Required 100 ml

Sample	020	020	020
Period Start Time	Sample No.	Grab period hours	Sample Volume Required (ml)
9/23/19 8:00 AM	1	4.0	15.9
9/23/19 12:00 PM	2	7.8	31.6
9/23/19 7:50 PM	3	4.2	19.1
9/24/19 12:00 AM	4	4.0	17.2
9/24/19 4:00 AM	5	4.0	16.3
1/0/00 12:00 AM	6	0.0	0.0
9/24/19 8:00 AM	End Time		

Total sample size ml

100.00

Appendix C



ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) SYSTEM INSPECTION LOG
Former Dover Electronics Site, Binghamton, NY (5101.0003)

Date	Time	System On? (Y/N)	E-1	E-2	E-3	E-4	Comments
			Vacuum	Vacuum	Vacuum	Vacuum	
1/17/2018	9:00	Y	4.50	4.00	0.13	3.75	ASD system back on after fan replacement
2/22/2018	8:35	Y	4.50	4.00	0.13	3.75	
3/21/2018	16:20	Y	4.50	3.75	0.25	3.75	IA sampling conducted prior to inspection, ASD system on during sampling
4/11/2018	7:45	Y	4.00	3.75	0.13	3.75	
5/23/2018	10:00	Y	3.88	3.75	0.25	3.50	
6/20/2018	8:20	Y	4.00	3.13	0.50	3.63	
7/11/2018	8:20	Y	4.25	3.57	0.38	3.50	
8/15/2018	8:40	Y	4.13	4.00	0.25	3.75	
9/21/2018	10:15	Y	4.13	3.88	0.25	3.75	
10/10/2018	12:45	Y	4.13	3.75	1.13	3.50	
11/15/2018	9:35	Y	2.50	2.25	1.00	1.75	
12/20/2018	9:30	Y	2.39	2.00	0.88	1.39	
1/15/2019	9:30	Y	2.38	1.88	0.88	1.25	
2/21/2019	8:10	Y	2.50	1.63	0.63	1.39	
3/22/2019	8:10	Y	2.25	2.75	1.25	0.50	
4/25/2019	10:30	Y	2.50	2.13	1.00	1.39	
5/13/2019	14:10	Y	2.50	2.13	1.39	0.87	
6/18/2019	9:00	Y	2.38	1.75	1.00	1.38	
7/23/2019	8:05	Y	2.38	1.88	1.13	1.38	
8/19/2019	15:00	Y	2.63	1.25	2.13	1.13	
9/23/2019	13:45	Y	4.25	3.25	1.25	2.25	
10/16/2019	10:30	Y	2.38	1.88	0.88	1.38	
11/18/2019	15:00	Y	2.25	2.00	1.00	1.38	
12/16/2019	15:00	Y	2.25	1.88	0.75	1.38	