2015 Annual Monitoring Report
Site 78 (PICA-013)

Picatinny Arsenal, New Jersey

Prepared for

Prepared by

EA Engineering, Science, and Technology, Inc., PBC.
Contract No. W91ZLK-13-D-0004-0009

March 2016

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U.S. Army

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
ARCADIS	ARCADIS U.S., Inc.
COC	Contaminant of concern
DCE	Dichloroethene
DO	Dissolved oxygen
EA	EA Engineering, Science, and Technology, Inc., PBC
ft	Foot (feet)
GPB	Green Pond Brook
MNA	Monitored natural attenuation
ORP	Oxidation reduction potential
PICA	Picatinny Arsenal
ROD	Record of Decision
SCL	Site cleanup level
TCA	Trichloroethane
TCE	Trichloroethene
USEPA	U.S. Environmental Protection Agency
VC	Vinyl chloride
VOC	Volatile organic compound

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1. INTRODUCTION

EA Engineering, Science, and Technology, Inc., PBC (EA) has been retained by the U.S. Army Environmental Command to perform Installation Restoration Program activities at Picatinny Arsenal (PICA), located in Morris County, New Jersey (**Figure 1**). This work is being conducted under a Performance Based Contract that encompasses 84 PICA sites. The full scope of services for this contract is defined in the Contract W91ZLK-13-D-0004 Task Order 0009, and will be overseen by the USAEC and the United States Army Corps of Engineers (USACE), under approval by the New Jersey Department of Environmental Protection (NJDEP), and United States Environmental Protection Agency (USEPA) Region 2. Field activities associated with this contract are being conducted by EA's subcontractor Sovereign Consulting Inc. (Sovereign).

1.1 SITE BACKGROUND

PICA is a 5,853-acre government-operated munitions research and development facility located in Morris County, New Jersey, approximately 40 miles west of New York City and 4 miles northeast of Dover, New Jersey.

Site 78 (PICA-013) is located in Area P situated in the southwestern corner of PICA, with Green Pond Mountain to the northwest and Green Pond Brook (GPB) approximately 450 feet (ft) to the southeast (**Figure 2**). Environmental impacts at Site 78 (PICA-013) are associated with historical activities conducted at Building 91, located on Fourth Avenue (**Figure 2**). Building 91 was constructed in 1942 as a storehouse and contained an optics laboratory in which operations were conducted between 1980 and the mid-1990s. Currently, an office space is located within Building 91 and the building's loading docks still receive materials.

Previous investigations have delineated a localized, low-level plume of volatile organic compounds (VOCs) in the shallow unconfined aquifer. The source of the VOCs is unknown but is likely attributable to a small-scale discharge at the site.

1.2 SCOPE OF WORK

As stated in the Record of Decision (ROD) (U.S. Army 2011), the selected response action for groundwater is monitored natural attenuation (MNA). The MNA groundwater remedy, established in the Final Remedial Design (ARCADIS 2011) for Site 78 (PICA-013) requires groundwater and surface water monitoring on the following schedule:

- Quarterly for the first 2 years of remedy implementation
- Semi-annually for the following 3 years of remedy implementation
- Annually thereafter.

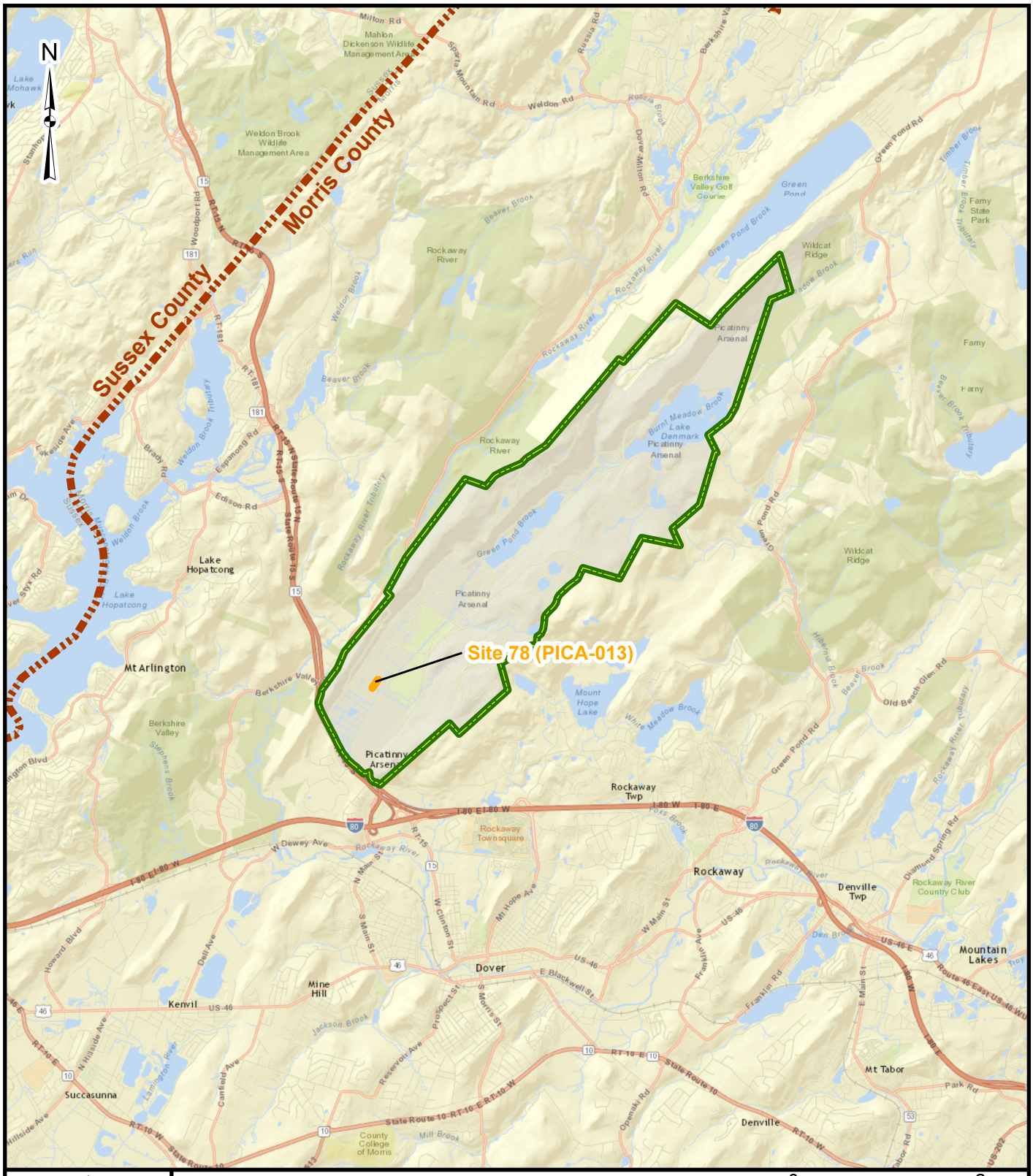
The long-term monitoring program schedule is presented in **Table 1** and further summarizes monitoring efforts at Site 78 (PICA-013).

The results of the following activities are presented in this report:

- Groundwater Elevation Measurements: Water levels were gauged from each well within the monitoring network (total of 4 wells).
- Groundwater and Surface Water Monitoring: Samples were collected from four groundwater monitoring wells and three surface water locations. Samples were analyzed for VOCs and water quality parameters.

This Annual Monitoring Report discusses the monitoring activities conducted during 2015 to evaluate MNA of chlorinated solvents historically released at the site.

Subsequent to the final (eighth) quarterly sampling event conducted in the second quarter of 2012, groundwater and surface water sampling was decreased to a semi-annual frequency through 2014 and transitioned to an annual frequency beginning in 2015. This report presents data collected during the annual monitoring event, which was conducted in the third quarter of 2015. Additionally, data trends for contaminants of concern (COCs) in groundwater and surface water are discussed and interpreted in Chapter 4 this report.



Installation Boundary

0 2

Miles

Service Layer Credits: Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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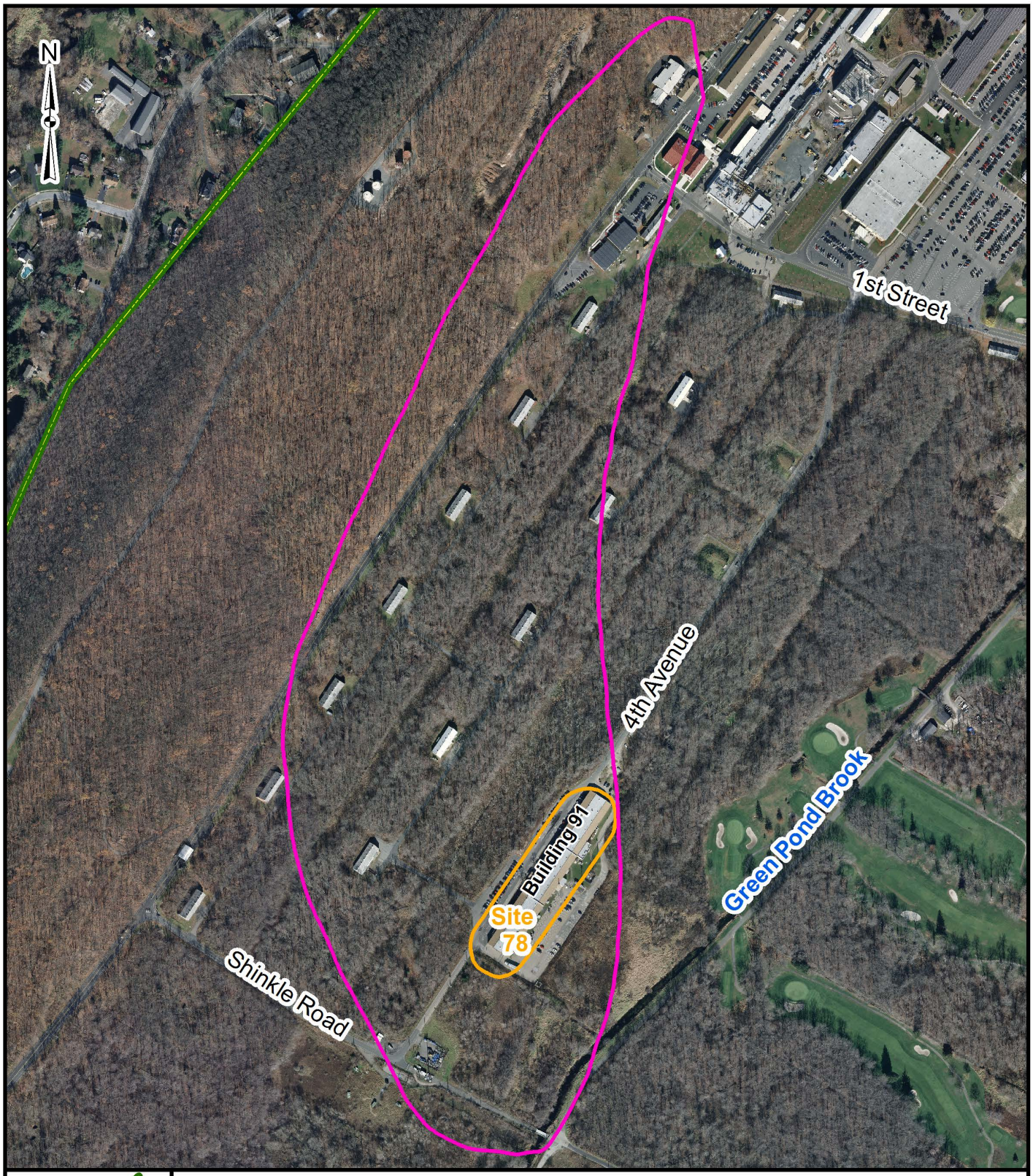
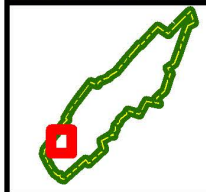
SITE 78 (PICA-013)
PICATINNY ARSENAL

Figure 1
Picatinny Arsenal
General Location





Area P

Site 78 (PICA-013)

Installation Boundary

0 500

Feet

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SITE 78 (PICA-013)
PICATINNY ARSENAL

Figure 2
RI Concept Site 78 (PICA-013)
Location Map

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Table 1 Compliance Monitoring Schedule

			Calendar Year	**2010**		**2011**				**2012**				**2013**				**2014**				**2015**			
			Operation Year	**First Year of Operation**				**Second Year of Operation**				**Third Year of Operation**				**Fourth Year of Operation**				**Fifth Year of Operation[2]**				**Sixth Year of Operation**	
Category	**Media**	**Schedule**	**Parameters**	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	July-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	July-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	July-Sept	Oct-Dec
				3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
MNA Sampling [1]	Groundwater and Surface Water	Yr 1-2: quarterly; Yr 3-5: semi-annually; Yr 6-duration: annually	VOCs	Completed Sept 2010	Completed Dec 2010	Completed March 2011	Completed June 2011	Completed Sept 2011	Completed Dec 2011	Completed March 2012	Completed June 2012	None	Completed Dec 2012	None	Completed June 2013	None	Completed Dec 2013	None	Completed June 2014	Completed Sept 2014	None	None	None	Completed Sept. 2015	None

Notes:

1. MNA sampling includes four groundwater monitoring wells (78-MW-001 , 78-MW-003 , 78-MW-004, and 78-MW-006) and three surface water sampling locations (78-SW-004, 78-SW-005, and 78-SW-006) as identified in the Remedial Design (ARCADIS 2010).
2. Semi-annual sampling for the 1st half of calendar year 2015 was not conducted due to a gap in contractors.

MNA - monitored natural attenuation

VOCs - volatile organic compounds

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2. 2015 LONG-TERM MONITORING ACTIVITIES

Data collected in September 2015 represent the first annual event (i.e. the 6th year of operation). Sampling activities included groundwater elevation measurements and routine groundwater and surface water sample collection. Field forms were completed by Sovereign personnel at the time of sample collection and are included in **Appendix A**. Further, groundwater and surface water sample results are reported in laboratory analytical statements included in **Appendix B**.

2.1 GROUNDWATER ELEVATION MEASUREMENTS

Prior to groundwater sampling activities, water levels in the monitoring network were gauged. September 2015 water level data are provided in **Table 2**, and results are summarized in Section 3.1.

2.2 GROUNDWATER MONITORING

Groundwater monitoring consisted of sample collection at four monitoring wells: 78-MW-001, 78-MW-003, 78-MW-004, and 78-MW-006 (**Figure 3**). Samples were collected on 23 September 2015 using hydrasleeves placed in each monitoring well on 21 September 2015. Hydrasleeve samplers can be used to sample for most groundwater analytes including VOCs, SVOCs, and metals (ITRC 2007). Groundwater samples were analyzed for VOCs by the United States Environmental Protection Agency (USEPA) Method 8260C. Water quality parameters (pH, temperature, dissolved oxygen [DO], and oxidation reduction potential [ORP]) were measured via a down-well probe following retrieval of each hydrasleeve, and are provided in **Table 3**.

2.3 SURFACE WATER MONITORING

Surface water monitoring consisted of surface water sampling at three locations: 78-SW-004, 78-SW-005, and 78-SW-006 (**Figure 3**). Samples were collected on 24 September 2015 using bailers and were analyzed for VOCs by USEPA Method 8260C. Water quality parameters (pH, temperature, DO, and ORP) were collected using a handheld multi-parameter water quality meter and are provided in **Table 4**.

2.4 DATA VALIDATION AND USABILITY

All data collected were third party validated in accordance with the USEPA National Functional Guideline for Organic Data Review, dated August 2014. The validation criteria for long-term monitoring data include a review of the laboratory report narrative for noted deficiencies and the potential impact to data usability. Therefore, a review of chain-of-custodies, sample preservation, sample receipt logs, and a review of quality control parameters were performed for all data packages. No major deficiencies were identified during the data validation; therefore, no additional review was performed. A copy of the Data Validation Report is included with **Appendix B**.

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Site 78 (PICA-013)

Monitoring Wells

Surface Water Sample Location

0 100

Feet

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PICATINNY ARSENAL

Figure 3
RI Concept Site 78 (PICA-013)
Sample Locations

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Table 2 Well Specification and Groundwater Elevation Summary

Well ID	Well Diameter (inches)	Surface Elevation (ft amsl)	Measuring Point Elevation (ft amsl)	Screen Interval (ft bgs)	Screen Interval (ft amsl)	9/21/2015	
						DTW (ft bmp)	GWE (ft amsl)
78-MW-001	2	689.92	689.67	5 - 15	684.92 - 674.92	4.05	685.62
78-MW-003	2	686.70	689.25	6 - 11	680.70 - 675.70	4.96	684.29
78-MW-004	2	686.85	687.46	6 - 11	680.85 - 675.85	3.21	684.25
78-MW-006	2	687.04	687.98	6 - 11	681.04 - 676.04	4.03	683.95

Notes:
ft bgs - feet below ground surface
ft bmp - feet below measuring point
ft amsl - feet above mean sea level
DTW - depth to water
GWE - groundwater elevation

Table 3 2015 Groundwater Monitoring Results – Contaminants of Concern

		Location ID	**78-MW-001**	**78-MW-003**	**78-MW-004**	**78-MW-006**
		Sample Date	9/23/2015	9/23/2015	9/23/2015	9/23/2015
		Depth Interval (ft bgs)	8	9	9	9
	Units	**PICA 013 SCL [1]**				
COCs						
1,1,1-Trichloroethane	µg/L	30	<0.50 U (<0.50 U)[3]	< 0.50 U	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	0.88 J (1.0)	< 0.50 U	< 0.50 U	2.5
Trichloroethene	µg/L	1	<0.50 U (<0.50 U)	< 0.50 U	< 0.50 U	< 0.50 U
Vinyl chloride	µg/L	1[2]	<0.50 U (<0.50 U)	< 0.50 U	< 0.50 U	**10.8**
Water Quality Field Parameters						
Oxidation Reduction Potential	mV	---	-97	-66	-80	91
Dissolved Oxygen	mg/L	---	3.30	2.50	2.97	2.03
pH	S.U.	---	7.63	7.07	6.92	6.92
Temperature	°C	---	16.21	15.89	16.09	16.86

Notes:
Values exceeding the applicable screening criterion are boldfaced and shaded.
1. PICA 013 groundwater Site Cleanup Levels (SCLs) were obtained from the New Jersey Groundwater Quality Criteria last amended on 22 July 2010, unless otherwise noted.
2. New Jersey Practical Quantitation Limit last amended 22 September 2010.
3. Duplicate sample results are provided in parenthesis adjacent to results presented for the parent sample location.
--- - Not applicable
°C - Degrees Celsius
µg/L - Microgram per liter
COCs - Constituents of concern
ft bgs - Feet below ground surface
mg/L - Milligram per liter
mV - Millivolt
S.U. - Standard units
J - Indicates an estimated result. Result is less than laboratory reporting limits.
U - Indicates that the analyte was analyzed but not detected above the detection limit.

Table 4 2015 Surface Water Monitoring Results – Contaminants of Concern

		Location ID	78-SW-004	78-SW-005	78-SW-006
		Sample Date	9/24/2015	9/24/2015	9/24/2015
Average Monthly Discharge at Green Pond Brook(2) (cfs)			7.5		
	Units	PICA 013 SCLs(1)			
COCs					
1,1,1-Trichloroethane	µg/L	120	< 0.50 U (<0.50 U)(3)	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	590	< 0.50 U (<0.50 U)	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	1	< 0.50 U (<0.50 U)	< 0.50 U	< 0.50 U
Vinyl chloride	µg/L	0.082	< 0.50 U (<0.50 U)	< 0.50 U	< 0.50 U
Water Quality Field Parameters					
pH	S.U.	---	6.20	5.94	6.31
Salinity	mSm^{-1}	---	0.03	0..07	0.02
Specific Conductance	$mScm^{-1}$	---	0.577	0.525	0.501
Temperature	°C	---	23.1	23.31	23.41

Notes:
Values exceeding the applicable screening criterion are boldfaced and shaded.
1. PICA 013 surface water Site Cleanup Levels (SCLs) were obtained from the New Jersey Surface Water Quality Criteria re-adopted 16 November 2009.
2. Monthly discharge data represents an average of data collected October 1982 - November 2011 at United States Geological Survey (USGS) stream gage 01379773 located at the mouth of Green Pond Brook.
3. Duplicate sample results are provided in parenthesis adjacent to results presented for the parent sample location.
--- - Not applicable
°C - Degrees Celsius
µg/L - Microgram per liter
cfs - Cubic feet per second
COCs - Constituents of concern
mg/L - Milligram per liter
$mScm^{-1}$ - MilliSieman per centimeter
mSm^{-1} - MilliSieman per meter
S.U. - Standard units
U - Indicates that the analyte was analyzed but not detected above the detection limit.

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3. LONG-TERM MONITORING RESULTS

Results from the September 2015 annual monitoring event are discussed below and provided in **Tables 2** and **3**, respectively. Groundwater and surface water sampling logs associated with sampling activities conducted in 2015 are provided in **Appendix A**. Laboratory Analytical Reports and Data Validation Reports are included in **Appendix B**. Data trend plots for groundwater and surface water samples are included in **Appendix C.**

3.1 GROUNDWATER ELEVATION MEASUREMENTS

Depth to groundwater was measured during hydrasleeve deployment at each of the four groundwater monitoring wells on 21 September 2015. Groundwater elevations are provided in **Table 2** and ranged from 684.35 ft above mean sea level at 78-MW-006 to 686.59 ft above mean sea level at 78-MW-001. Historical groundwater elevation data indicate that groundwater flows in a general southeasterly direction toward GPB. A map displaying groundwater elevations from the September 2015 gauging event is provided as **Figure 4**.

3.2 GROUNDWATER MONITORING RESULTS

Groundwater samples were evaluated for the full suite of VOCs via USEPA Method 8260C. The following constituents were identified in the 2011 ROD as COCs:

- 1,1,1-Trichloroethane (1,1,1-TCA)
- Trichloroethene (TCE)
- *cis*-1,2-dichloroethene (*cis*-1,2-DCE)
- Vinyl chloride (VC).

Table 3 summarizes the September 2015 sampling results for the above mentioned COCs within the four wells constituting the monitoring network.

Three of the four COCs (1,1,1-TCA, *cis*-1,2-DCE, and TCE) were not detected above the SCL (New Jersey Groundwater Quality Criteria) in groundwater samples collected in September 2015. The remaining COC (VC) exceeded the SCL (New Jersey Practical Quantitation Limit) of 1 microgram per liter (µg/L) in well 78-MW-006. The detections of each of the COCs are summarized below:

- 1,1,1-TCA and TCE were not detected above laboratory method detection limits.

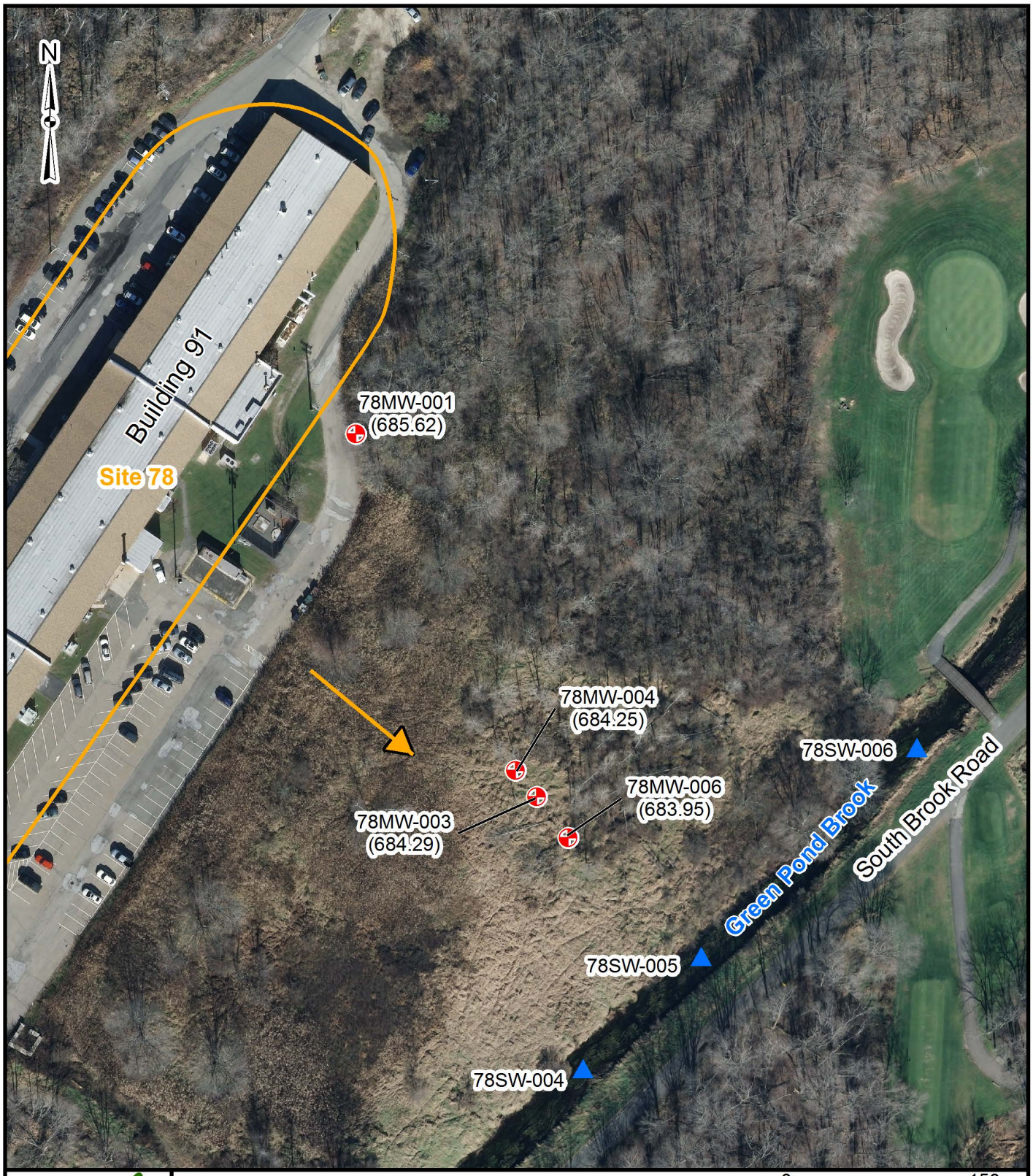
- *Cis*-1,2-DCE was detected below the SCL (70 µg/L) in two groundwater samples at concentrations of 0.88 µg/L (78-MW-001) and 2.5 µg/L (78-MW-006).

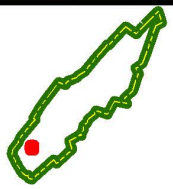
- VC exceeded the SCL (1 µg/L) in one monitoring well, 78-MW-006, at a concentration of 10.6 µg/L.

3.3 SURFACE WATER MONITORING RESULTS

Table 4 presents the 2015 analytical results for each surface water sample. A summary of these results is provided in **Figure 5.**

As presented in **Table 4** and **Figure 5**, no COCs were detected in any of the surface water samples collected during the September 2015 event.





Monitoring Well (Groundwater Elevations in Feet Above Mean Sea Level)

Surface Water Sample Location

Site 78 (PICA-013)

0 150

Feet

Inferred Groundwater Flow Direction

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SITE 78 (PICA-013)
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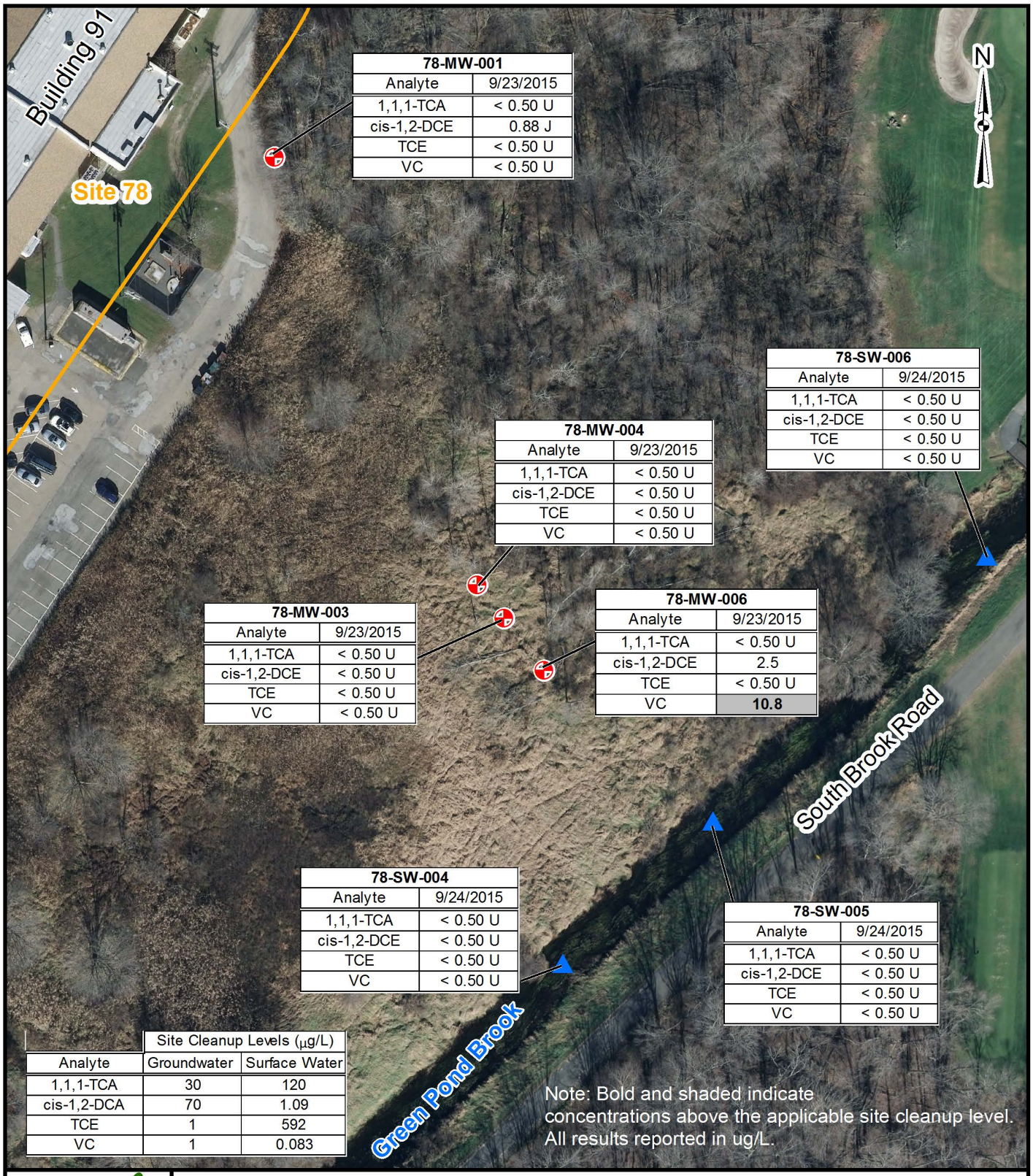
Figure 4
Groundwater Elevations



78-MW-001	
Analyte	9/23/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	0.88 J
TCE	< 0.50 U
VC	< 0.50 U

78-SW-006	
Analyte	9/24/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	< 0.50 U
TCE	< 0.50 U
VC	< 0.50 U

78-MW-004	
Analyte	9/23/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	< 0.50 U
TCE	< 0.50 U
VC	< 0.50 U

78-MW-003	
Analyte	9/23/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	< 0.50 U
TCE	< 0.50 U
VC	< 0.50 U

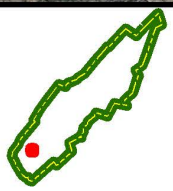
78-MW-006	
Analyte	9/23/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	2.5
TCE	< 0.50 U
VC	**10.8**

78-SW-004	
Analyte	9/24/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	< 0.50 U
TCE	< 0.50 U
VC	< 0.50 U

78-SW-005	
Analyte	9/24/2015
1,1,1-TCA	< 0.50 U
cis-1,2-DCE	< 0.50 U
TCE	< 0.50 U
VC	< 0.50 U

	Site Cleanup Levels (µg/L)	
Analyte	Groundwater	Surface Water
1,1,1-TCA	30	120
cis-1,2-DCA	70	1.09
TCE	1	592
VC	1	0.083

Note: Bold and shaded indicate concentrations above the applicable site cleanup level. All results reported in ug/L.



Monitoring Well

Surface Water Sample Location

Site 78 (PICA-013)

0 100

Feet

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SITE 78 (PICA-013)
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Figure 5
VOCs Analytical Results

4. EVALUATION OF DATA TRENDS

A discussion of overall data trends is presented below. The data trend plots are presented within **Appendix C**.

Concentrations of COCs within upgradient monitoring well 78-MW-001 have been, and continue to be, either non-detect or below the SCL indicating there is no continuing source to groundwater. Furthermore, the concentrations of COCs within monitoring well 78-MW-004, located upgradient to the historical plume center, has also exhibited a significant decline in COC concentrations. Concentrations of COCs within 78-MW-004 have been below the SCL since December 2011 and have been non-detect since June of 2012, further bolstering the assessment that there is not a continued source of contamination to groundwater.

Evaluation of concentrations trends within wells located in or near the plume center of mass indicates that the degradation half-lives are consistent with those predicted in the Remedial Design as illustrated in the following table.

Table 5 Evaluation of Concentration Trends

COC	SCL (µg/L)	Predicted Half Life (years)	Historical Highest Concentration (µg/L)(Date)	Concentration (µg/L) as of 3rd Quarter 2015
78MW-003				
TCE	1	1.9	4.0 (9/17/04)	<0.50
cis-1,2-DCE	70	3.2	340 (4/22/04)	<0.50
TCA	30	--	0.0	<0.50
VC	1	3.8	173 (3/5/07)	<0.50
78MW-006				
TCE	1	1.9	0.0	<0.50
cis-1,2-DCE	70	3.2	320 (1/12/04)	2.5
TCA	30	--	0.0	<0.50
VC	1	3.8	130 (5/20/04)	10.8

Concentrations of 1,1,1-TCA, TCE, and *cis*-1,2-DCE have been below their respective SCLs in all four MNA network wells since November 2013. The only constituent that exceeded its SCL is VC. VC was detected in 78-MW-006 above its SCL of 1.0 µg/L. It is important to note that 78-MW-003 is the historical plume center and that COCs from this location have exhibited a strongly declining trend since the historical maximum concentration for each constituent. 78-MW-006 is located down gradient of 78-MW-003, which was non-detect for all COCs. Groundwater concentrations of VC are expected to naturally attenuate over time, as VC can degrade under anaerobic or aerobic conditions.

No VOCs were detected at the three surface water monitoring locations in 2015. Low VOC concentrations were detected at each of the three surface water monitoring locations in 2014 (ARCADIS 2014a). In 2013, VC exceeded the SCL at each of the three surface monitoring locations (ARCADIS 2014b). As previously stated, groundwater in the unconfined aquifer in the vicinity of Site 78 (PICA-013) discharges to GPB. The surface water data indicate that the contaminant mass is attenuating prior to discharging to GPB.

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5. REMEDY PERFORMANCE AND FUTURE ACTIONS

Based on historical data trends, the ROD estimated a 13-year remedial time frame to restore groundwater to concentrations below SCLs. After five years of MNA monitoring since remedy implementation, only VC remains above its SCL at the most down gradient well (78-MW-006).

Annual monitoring will occur in 2016 in accordance with the monitoring program established in the Final Remedial Design (ARCADIS 2011) and as presented in **Table 1** of this report. The duration and frequency of monitoring (greater or lesser) is subject to change based upon evaluation of the data collected and agreement by USEPA and the New Jersey Department of Environmental Protection.

Per the Final Remedial Design (ARCADIS 2011), the duration to reach chemical-specific groundwater standards is anticipated to be approximately 13 years. Data to date are consistent with expectations and indicate that concentrations are declining sharply. The Remedial Design also specifies that a long-term monitoring plan will be developed and contain a detailed exit strategy outlining decision logic for the reduction in the number of samples and the cessation of sampling. The monitoring plan is being developed and will be submitted under separate cover.

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6. REFERENCES

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Appendix A

Field Documentation

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Sovereign Consulting Inc

HydraSleeve Field Form

Site: Picatinny Arsenal

Location: Site 78 - RI Concept

Well ID: 78 MW - 1

Well Type: [X] Monitoring [ ] Other:

Well Finish: [ ] Stick-up [X] Flush Mount

Measuring Pt: [X] Top of Casing [ ] Other:

Total Depth as Constructed (ft bgs): 14.39 Screened Interval: 5-15'

Well Casing: Diameter: 2 Material: PVC

Well Screen: Diameter: 2

Deployment

Date and Time of Deployment: 9-21-15 @ 1605

Weather Conditions: cloudy 80's

Depth to GW @ Time of Deployment: 4.05

Total Well Depth at Time of Deployment: 14.39

Dimensions of HydraSleeve: Length (in.) 36 Diameter (in.) 1.75

Deployment Method/Position of Weight:

- [X] Bottom Anchor: Weight attached to bottom of HydraSleeve. Weight rests on well bottom
- [ ] Top-Down: Weight attached to bottom of HydraSleeve. Weight suspended in well.
- [ ] Top-Down: Weight attached to top of HydraSleeve. Weight suspended in well.

Deployment Depth (Top of HydraSleeve)(ft bgs): 8'

Retrieval

Date and Time of Retrieval: Date: 9-23-15 Time: 9:25

Total # of Days Deployed: 2

Weather Conditions: Sunny 80's

Retrieval Method:

- [X] Continuous Pull (preferred)
- [ ] Short Strokes

Depth to GW at Time of Retrieval (measured before retrieval): 4.13

Total Well Depth at Time of Retrieval (measured before retrieval): 14.39

Downhole Firld Parameters Upon Retrieval:

Temp:	16.21	ORP:	-97	Cond:	.803
pH:	7.63	DO:	3.30	Turb:	984

Turbidity of GW Sample (dispensed from HydraSleeve):

Turbidity: 984 Meter Type: U-52 Serial #: ENGESDCY

Notes/Observations: DUP, MS, MSD, ~~D~~

Field Sampling Tech: D. Thompson Company: Sovereign

Sovereign Consulting Inc

HydraSleeve Field Form

Site: Picatinny Arsenal

Location: Site 78 - RI Concept

Well ID: 78MW-3

Well Type: [X] Monitoring [ ] Other:

Well Finish: [X] Stick-up [ ] Flush Mount

Measuring Pt: [X] Top of Casing [ ] Other:

Total Depth as Constructed (ft bgs): 13.60 Screened Interval: 6 - 11'

Well Casing: Diameter: 2 Material: PVC

Well Screen: Diameter: 2

Deployment

Date and Time of Deployment: 9-21-15 @ 11:15

Weather Conditions: cloudy 80's

Depth to GW @ Time of Deployment: 4.96

Total Well Depth at Time of Deployment: 13.60

Dimensions of HydraSleeve: Length (in.) 36 Diameter (in.) 1.75

Deployment Method/Position of Weight:

[X] Bottom Anchor: Weight attached to bottom of HydraSleeve. Weight rests on well bottom

[ ] Top-Down: Weight attached to bottom of HydraSleeve. Weight suspended in well.

[ ] Top-Down: Weight attached to top of HydraSleeve. Weight suspended in well.

Deployment Depth (Top of HydraSleeve)(ft bgs): 9'

Retrieval

Date and Time of Retrieval: Date: 9-23-15 Time: 9:35

Total # of Days Deployed: 2

Weather Conditions: Sunny 80's

Retrieval Method: [X] Continuous Pull (preferred)

[ ] Short Strokes

Depth to GW at Time of Retrieval (measured before retrieval): 5.07

Total Well Depth at Time of Retrieval (measured before retrieval): 13.60

Downhole Firld Parameters Upon Retrieval:

Temp:	15.89	ORP:	-66	Cond:	.0432
pH:	7.07	DO:	2.50	Turb:	189

Turbidity of GW Sample (dispensed from HydraSleeve):

Turbidity: .189 Meter Type: U-52 Serial #: ENGESDCY

Notes/Observations:

Field Sampling Tech: D. Thompson Company: Sovereign

Sovereign Consulting Inc

HydraSleeve Field Form

Site: Picatinny Arsenal

Location: Site 78 - RI Concept

Well ID: 78MW-4

Well Type: [X] Monitoring [ ] Other:

Well Finish: [X] Stick-up [ ] Flush Mount

Measuring Pt: [X] Top of Casing [ ] Other:

Total Depth as Constructed (ft bgs): 11.0 Screened Interval: 6-11

Well Casing: Diameter: 2 Material: PVC

Well Screen: Diameter: 2

Deployment

Date and Time of Deployment: 9-21-15 @ 1110

Weather Conditions: Cloudy 80's

Depth to GW @ Time of Deployment: 3.21

Total Well Depth at Time of Deployment: 10.95

Dimensions of HydraSleeve: Length (in.) 36 Diameter (in.) 1.75

Deployment Method/Position of Weight:

[X] Bottom Anchor: Weight attached to bottom of HydraSleeve. Weight rests on well bottom

[ ] Top-Down: Weight attached to bottom of HydraSleeve. Weight suspended in well.

[ ] Top-Down: Weight attached to top of HydraSleeve. Weight suspended in well.

Deployment Depth (Top of HydraSleeve)(ft bgs): 9'

Retrieval

Date and Time of Retrieval: Date: 9-23-15 Time: 9:45

Total # of Days Deployed: 2

Weather Conditions: Sunny 80's

Retrieval Method: [X] Continuous Pull (preferred)

[ ] Short Strokes

Depth to GW at Time of Retrieval (measured before retrieval): 3.36

Total Well Depth at Time of Retrieval (measured before retrieval): 10.95

Downhole Firld Parameters Upon Retrieval:

Temp: 16.09 ORP: -80 Cond: .497

pH: 6.92 DO: 2.97 Turb: 172

Turbidity of GW Sample (dispensed from HydraSleeve):

Turbidity: 172 Meter Type: U-52 Serial #: ENGEJDCY

Notes/Observations:

Field Sampling Tech: D. Thompson Company: Sovereign

Sovereign Consulting Inc

HydraSleeve Field Form

Site: Picatinny Arsenal

Location: Site 78 - RI Concept

Well ID: 78MW-6

Well Type: [X] Monitoring [ ] Other:

Well Finish: [X] Stick-up [ ] Flush Mount

Measuring Pt: [X] Top of Casing [ ] Other:

Total Depth as Constructed (ft bgs): 11.0 Screened Interval: 6-11

Well Casing: Diameter: 2 Material: PVC

Well Screen: Diameter: 2

Deployment

Date and Time of Deployment: 9-21-15 @ 1120

Weather Conditions: cloudy 80's

Depth to GW @ Time of Deployment: 4.03

Total Well Depth at Time of Deployment: 12.10

Dimensions of HydraSleeve: Length (in.) 36 Diameter (in.) 1.75

Deployment Method/Position of Weight:

- [X] Bottom Anchor: Weight attached to bottom of HydraSleeve. Weight rests on well bottom
- [ ] Top-Down: Weight attached to bottom of HydraSleeve. Weight suspended in well.
- [ ] Top-Down: Weight attached to top of HydraSleeve. Weight suspended in well.

Deployment Depth (Top of HydraSleeve)(ft bgs): 9'

Retrieval

Date and Time of Retrieval: Date: 9-23-15 Time: 9:55

Total # of Days Deployed: 2

Weather Conditions: Sunny 80's

Retrieval Method:

- [X] Continuous Pull (preferred)
- [ ] Short Strokes

Depth to GW at Time of Retrieval (measured before retrieval): 4.11

Total Well Depth at Time of Retrieval (measured before retrieval): 12.10

Downhole Firld Parameters Upon Retrieval:

Temp:	21.86	ORP:	91	Cond:	.410
pH:	6.92	DO:	2.03	Turb:	136

Turbidity of GW Sample (dispensed from HydraSleeve):

Turbidity: 136 Meter Type: U-52 Serial #: ENGEJDCY

Notes/Observations:

Field Sampling Tech: D. Thompson Company: Sovereign

Sovereign Consulting Inc

SURFACE WATER SAMPLE COLLECTION LOG

Sample ID 78-SW-004
Date 9-24-15
Time 10:15
Weather Sunny 80°

Project Name & No. Picatinny RB577
Sampling Personnel MC/AO

DESCRIPTION OF SAMPLE LOCATION:

Name of Water Body Green Pond Brook
Depth of Water 1.5'
Velocity slow
Other Comments
Substrate Description steep
Sample Location and Depth (ft) 0-0.5'

Description of Nearby Vegetation High Grass

FIELD PARAMETERS:

Sample Method: Bailer
Sample Description: clear

Temp. (°F) 23.10
D.O. 5.99
Salinity 0.03
pH 6.20
SC .577

CONTAINER DESCRIPTION:

Bottle Type	Analysis	Preservative
VOA	VOC	HCL
MS		
MSD		
DUP-RI-SW		

TOTAL: 8

Sovereign Consulting Inc

SURFACE WATER SAMPLE COLLECTION LOG

Sample ID 78-SW-005
Date 9-24-15
Time 10:05
Weather Sunny 80°

Project Name & No. Picatinny RB577
Sampling Personnel MC/AO

DESCRIPTION OF SAMPLE LOCATION:

Name of Water Body Green Pond Brook
Depth of Water 1.5
Velocity slow
Other Comments
Substrate Description steep
Sample Location and Depth (ft) 0 - 0.5'

Description of Nearby Vegetation High Grass

FIELD PARAMETERS:

Sample Method: Bailer
Sample Description: clear

Temp. (°F) 23.31
D.O. 5.65
Salinity 0.07
pH 5.94
SC .525

CONTAINER DESCRIPTION:

Bottle Type	*Analysis*	*Preservative*
Voa	VOC	HCL

TOTAL: 2

Sovereign Consulting Inc

SURFACE WATER SAMPLE COLLECTION LOG

Sample ID 78-SW-006
Date 9-24-15
Time 955
Weather Sunny 80°

Project Name & No. Picatinny RB577
Sampling Personnel MC/AO

DESCRIPTION OF SAMPLE LOCATION:

Name of Water Body Green Pond Brook
Depth of Water 1.5'
Velocity Slow
Other Comments
Substrate Description Steep
Sample Location and Depth (ft) 0-0.5'

Description of Nearby Vegetation High Grass

FIELD PARAMETERS:

Sample Method: Bailer
Sample Description: Clear

Temp. (°F) 23.41
D.O. 5.55
Salinity 0.02
pH 6.31
SC .501

CONTAINER DESCRIPTION:

Bottle Type	*Analysis*	*Preservative*
VOA	VOC	HCL

TOTAL: 2

EPA Region 2 Superfund Well Assessment Checklist

Owner Well ID: 78-MW-1

Facility Information

Site Name:	Picatinny Arsenal — *Area:* RI Concept *Site:* 78
Site Address:	North East Office Garrison Bldg. 319, Picatinny, NJ 07806
Site County:	Morris County
Site State:	New Jersey
EPA Site ID Number:	NJ3210020704
Site Owner:	US Department of Army Picatinny Arsenal
EPA Project Manager:	Mr. William Roach, USEPA Region II

Well Location Information

State Well Permit No:	25.59071
Well Tag ID and Condition	none
Well Installation Date	5-16-02

	From Log	*From GPS*[1]
Ground Surface Elevation	689.67	N/A
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	763798	N/A
Easting (State Plane)	470496	N/A

Cross streets (if applicable):	South Brook
GPS Instrument used:[1]	~~Ø~~
Datum:	~~Ø~~
Accuracy/Precision:	~~Ø~~

Well Construction Details

Type of well (Circle one) (Flush Mount) *Stick up* *Multilevel Well*[2]

Well lock\security type:	manhole cover	
Elevation (top of inner casing):	687.67	
Surface protective casing material:	steel	
Surface Casing diameter:	8"	*inches*
Well Diameter and Casing Material:	2" PVC	*inches*
Well Depth (as installed):	14.15	*ftbgs*
Well Depth (as measured):	14.39	*fttoc*
Well Stick Up Height (as measured):	N/A	*ftbgs*
Screened interval:	5-15'	*ft*
Open hole interval:	N/A	*ft*
Depth to water:	4.05	*ftbtoc*

Date: 9-21-15 *Time:* 11:05

[1] Picatinny wells will not be resurveyed by GPS unless existing Northing and Easting coordinates from prior survey efforts are not available or other conditions warrant resurveying.

[2] If multilevel well please see attached worksheet.

N/A= Not Applicable

- - - = Not Available

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): N/A *ppm*

Multi-gas/CGI meter Readings taken (if applicable):[3]

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? *Yes* *No*

Well Condition

Is the concrete pad in good condition?	*Yes*	*No*
Is the well surface casing in good condition?	*Yes*	*No*
Is the surface casing vertical?	*Yes*	*No*
Is there an internal well seal?	*Yes*	*No*
Has there been physical damage to the well?	*Yes*	*No*
Does sounding depth match completed depth?	*Yes*	*No*
Is measuring point marked?	*Yes*	*No*
Is the well clearly labeled?	*Yes*	*No*
Flush mount - Is it secure from runoff?	*Yes*	*No*

Overall well condition (circle one) *Good* *Fair* *Poor*

Other Comments:

Recommendations

Well needs to be redeveloped	*Yes*	*No*
Well needs to be re-surveyed.	*Yes*	*No*
Well needs to be repaired.	*Yes*	*No*
Well needs to be replaced.	*Yes*	*No*
Well needs to be properly abandoned.	*Yes*	*No*
No action necessary.	*Yes*	*No*

Comments

Signatures

Inspected by: D. Thompson

Date of Inspection: 9.21.15

Reviewed by: Ronald L Travers (Print)

(Sign)

[3] Multi-gas readings are considered not applicable for Picatinny wells.
N/A= Not Applicable
- - - = Not Available

EPA Region 2 Superfund Well Assessment Checklist

Owner Well ID: 78-MW-4

Facility Information

Site Name:	Picatinny Arsenal — *Area:* RI Grp *Site:* 78
Site Address:	North East Office Garrison Bldg. 319, Picatinny, NJ 07806
Site County:	Morris County
Site State:	New Jersey
EPA Site ID Number:	NJ3210020704
Site Owner:	US Department of Army Picatinny Arsenal
EPA Project Manager:	Mr. William Roach, USEPA Region II

Well Location Information

State Well Permit No:	25000 62782
Well Tag ID and Condition	OK
Well Installation Date	12-19-03

	From Log	*From GPS*[1]
Ground Surface Elevation	687.46	N/A
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	763543	N/A
Easting (State Plane)	470617	N/A

Cross streets (if applicable):	South Brook
GPS Instrument used:[1]	Ø
Datum:	Ø
Accuracy/Precision:	Ø

Well Construction Details

Type of well (Circle one) *Flush Mount* (Stick up) *Multilevel Well*[2]

Well lock\security type:	lock OK	
Elevation (top of inner casing):	687.46	
Surface protective casing material:	steel	
Surface Casing diameter:	4"	inches
Well Diameter and Casing Material:	2" PVC	inches
Well Depth (as installed):	12.45	ftbgs
Well Depth (as measured):	10.95	fttoc
Well Stick Up Height (as measured):	2.4	ftbgs
Screened interval:	6-11	ft
Open hole interval:	N/A	ft
Depth to water:	3.21	ftbtoc

Date: 9-9-15 *Time:* 1110

[1] Picatinny wells will not be resurveyed by GPS unless existing Northing and Easting coordinates from prior survey efforts are not available or other conditions warrant resurveying.

[2] If multilevel well please see attached worksheet.

N/A= Not Applicable

- - - = Not Available

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): N/A ppm

Multi-gas/CGI meter Readings taken (if applicable):[3]

LEL:	N/A	% LEL
O_2:	N/A	40% Vol.
CO:	N/A	ppm
H_2S:	N/A	ppm

Do readings indicate unsafe conditions exist? Yes No

Well Condition

Is the concrete pad in good condition?	Yes	No
Is the well surface casing in good condition?	Yes	No
Is the surface casing vertical?	Yes	No
Is there an internal well seal?	Yes	No
Has there been physical damage to the well?	Yes	No
Does sounding depth match completed depth?	Yes	No
Is measuring point marked?	Yes	No
Is the well clearly labeled?	Yes	No
Flush mount - Is it secure from runoff?	Yes	No

Overall well condition (circle one) Good Fair Poor

Other Comments:

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
No action necessary.	Yes	No

Comments

Signatures

Inspected by: D. Thompson

Date of Inspection: 9.9.15

Reviewed by: Ronald L Traver (Print)

(Sign)

[3] Multi-gas readings are considered not applicable for Picatinny wells.

N/A= Not Applicable

- - - = Not Available

EPA Region 2 Superfund Well Assessment Checklist

Owner Well ID: 78 MW - 3

Facility Information

Site Name:	Picatinny Arsenal — *Area:* RI (Concept) *Site:* 78
Site Address:	North East Office Garrison Bldg. 319, Picatinny, NJ 07806
Site County:	Morris County
Site State:	New Jersey
EPA Site ID Number:	NJ3210020704
Site Owner:	US Department of Army Picatinny Arsenal
EPA Project Manager:	Mr. William Roach, USEPA Region II

Well Location Information

State Well Permit No:	2559073
Well Tag ID and Condition	OK
Well Installation Date	8-9-02

	From Log	*From GPS*[1]
Ground Surface Elevation	689.35	N/A
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	763523	N/A
Easting (State Plane)	470633	N/A

Cross streets (if applicable):	South Broad
GPS Instrument used:[1]	~~0~~
Datum:	~~0~~
Accuracy/Precision:	~~0~~

Well Construction Details

Type of well (Circle one) *Flush Mount* *Stick up* *Multilevel Well*[2]

Well lock\security type:	lock OK	
Elevation (top of inner casing):	689.35	
Surface protective casing material:	Steel	
Surface Casing diameter:	4"	*inches*
Well Diameter and Casing Material:	2" PVC	*inches*
Well Depth (as installed):	13.3	*ftbgs*
Well Depth (as measured):	13.60	*fttoc*
Well Stick Up Height (as measured):	2.6	*ftbgs*
Screened interval:	6-11	*ft*
Open hole interval:	n/a	*ft*
Depth to water:	4.96	*ftbtoc*

Date: 9-9-15 *Time:*

[1] Picatinny wells will not be resurveyed by GPS unless existing Northing and Easting coordinates from prior survey efforts are not available or other conditions warrant resurveying.

[2] If multilevel well please see attached worksheet.

N/A= Not Applicable

- - - = Not Available

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): N/A *ppm*

Multi-gas/CGI meter Readings taken (if applicable):[3]

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? *Yes* *No*

Well Condition

Is the concrete pad in good condition?	*Yes*	*No*
Is the well surface casing in good condition?	*Yes*	*No*
Is the surface casing vertical?	*Yes*	*No*
Is there an internal well seal?	*Yes*	*No*
Has there been physical damage to the well?	*Yes*	*No*
Does sounding depth match completed depth?	*Yes*	*No*
Is measuring point marked?	*Yes*	*No*
Is the well clearly labeled?	*Yes*	*No*
Flush mount - Is it secure from runoff?	*Yes*	*No*

Overall well condition (circle one) *Good* *Fair* *Poor*

Other Comments:

Recommendations

Well needs to be redeveloped	*Yes*	*No*
Well needs to be re-surveyed.	*Yes*	*No*
Well needs to be repaired.	*Yes*	*No*
Well needs to be replaced.	*Yes*	*No*
Well needs to be properly abandoned.	*Yes*	*No*
No action necessary.	*Yes*	*No*

Comments

Signatures

Inspected by: D. Thompson

Date of Inspection: 9.9.15

Reviewed by: Ronald L Traver (Print)

(Sign)

[3] Multi-gas readings are considered not applicable for Picatinny wells.
N/A= Not Applicable
- - - = Not Available

EPA Region 2 Superfund Well Assessment Checklist

Owner Well ID: 78MW-6

Facility Information

Site Name:	Picatinny Arsenal — *Area:* RI Corridor — *Site:* 78
Site Address:	North East Office Garrison Bldg. 319, Picatinny, NJ 07806
Site County:	Morris County
Site State:	New Jersey
EPA Site ID Number:	NJ3210020704
Site Owner:	US Department of Army Picatinny Arsenal
EPA Project Manager:	Mr. William Roach, USEPA Region II

Well Location Information

State Well Permit No:	2500062784
Well Tag ID and Condition	OK
Well Installation Date	12-19-03

	From Log	*From GPS*[1]
Ground Surface Elevation	687.98	N/A
Latitude	N/A	N/A
Longitude	N/A	N/A
Northing (State Plane)	763492	N/A
Easting (State Plane)	470647	N/A

Cross streets (if applicable):	South Brook
GPS Instrument used:[1]	Ø
Datum:	Ø
Accuracy/Precision:	Ø

Well Construction Details

Type of well (Circle one) *Flush Mount* *Stick up* *Multilevel Well*[2]

Well lock\security type:	lock OK	
Elevation (top of inner casing):	687.98	
Surface protective casing material:	steel	
Surface Casing diameter:	4"	inches
Well Diameter and Casing Material:	2" PVC	inches
Well Depth (as installed):	12.89	ftbgs
Well Depth (as measured):	12.10	fttoc
Well Stick Up Height (as measured):	2.6	ftbgs
Screened interval:	6-11	ft
Open hole interval:	N/A	ft
Depth to water:	4.03	ftbtoc

Date: 9-9-15 *Time:* 1120

[1] Picatinny wells will not be resurveyed by GPS unless existing Northing and Easting coordinates from prior survey efforts are not available or other conditions warrant resurveying.

[2] If multilevel well please see attached worksheet.

N/A= Not Applicable

- - - = Not Available

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): N/A *ppm*

Multi-gas/CGI meter Readings taken (if applicable):[3]

LEL:	N/A	*% LEL*
O_2:	N/A	*40% Vol.*
CO:	N/A	*ppm*
H_2S:	N/A	*ppm*

Do readings indicate unsafe conditions exist? *Yes* *No*

Well Condition

Is the concrete pad in good condition?	*Yes*	*No*
Is the well surface casing in good condition?	*Yes*	*No*
Is the surface casing vertical?	*Yes*	*No*
Is there an internal well seal?	*Yes*	*No*
Has there been physical damage to the well?	*Yes*	*No*
Does sounding depth match completed depth?	*Yes*	*No*
Is measuring point marked?	*Yes*	*No*
Is the well clearly labeled?	*Yes*	*No*
Flush mount - Is it secure from runoff?	*Yes*	*No*

Overall well condition (circle one) *Good* *Fair* *Poor*

Other Comments:

Recommendations

Well needs to be redeveloped	*Yes*	*No*
Well needs to be re-surveyed.	*Yes*	*No*
Well needs to be repaired.	*Yes*	*No*
Well needs to be replaced.	*Yes*	*No*
Well needs to be properly abandoned.	*Yes*	*No*
No action necessary.	*Yes*	*No*

Comments

Signatures

Inspected by: D. Thompson

Date of Inspection: 9.9.15

Reviewed by: Ronald L Traver (Print)

(Sign)

[3] Multi-gas readings are considered not applicable for Picatinny wells.

N/A= Not Applicable

- - - = Not Available

Sovereign Consulting Inc

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal

Location: RI Concept

Well ID: 75MW6

Well Type: ☒ Monitoring ☐ Other:

Well Finish: ☒ Stick-up ☐ Flush Mount

Measuring Pt: ☒ Top of Casing ☐ Other:

Total Depth as Constructed (ft bgs): 12.10 Screened Interval:

Well Casing: Diameter: 2 Material: PVC

Well Screen: Diameter: 2

Deployment

Date and Time of Deployment	**Date** 8-25-15	**Time** 1355	
Weather Conditions	Sun 80s		
Depth to GW @ Time of Deployment	3.76		
Type of PDB Used:	☒ **Lab Filled (Modified Trip Blank must be taken at time of deployment)**		
	☐ Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)		
Dimensions of PDB:	Length (in.) _____	Diameter (in.) _____	
Position of PDB Weight:	☒ Attached to bottom of PDB and suspended in well		
	☐ Attached to bottom of deployment line and suspended in well		
	☐ Attached to bottom of deployment lin and resting on bottom of well (preferred)		

Retrieval (note: mimimum deployment period is 2 weeks)

Date and Time of Retrieval	**Date** 9/9/15	**Time** 9:55	
Total # of Days Deployed			
Weather Conditions	Sunny 80s		
Depth to GW at Time of Retrieval			
Downhole Field Parameters Upon Retrieval:			
Temp 21.86	**ORP** 91	**Water Quality Meters:** Horiba	
pH 6.92	**DO** 2.03	**Serial #:** UUG93EKH	

Notes/Observations:

Field Sampling Tech: JV **Company:** Sovereign

Sovereign Consulting Inc

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal
Location: RI School
Well ID: 78MW-1
Well Type: ☑ Monitoring ☐ Other:
Well Finish: ☐ Stick-up ☑ Flush Mount
Measuring Pt: ☑ Top of Casing ☐ Other:
Total Depth as Constructed (ft bgs): 14.39 Screened Interval:
Well Casing: Diameter: 2 Material: PVC
Well Screen: Diameter: 2

Deployment

Date and Time of Deployment Date 8-25-15 Time 1330
Weather Conditions
Depth to GW @ Time of Deployment 3.48
Type of PDB Used: ☑ **Lab Filled (Modified Trip Blank must be taken at time of deployment)**
☐ Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
Dimensions of PDB: Length (in.) _____ Diameter (in.) _____
Position of PDB Weight:
☐ Attached to bottom of PDB and suspended in well
☐ Attached to bottom of deployment line and suspended in well
☑ Attached to bottom of deployment lin and resting on bottom of well (preferred)

Retrieval (note: mimimum deployment period is 2 weeks)

Date and Time of Retrieval Date 9/9/15 Time 10:00
Total # of Days Deployed
Weather Conditions Sunny 80's
Depth to GW at Time of Retrieval 4.45
Downhole Field Parameters Upon Retrieval:
Temp 21.65 ORP 99 Water Quality Meters: Horiba
pH 6.76 DO 2.73 Serial #: 44649EAH

Notes/Observations: 2 PDB

Field Sampling Tech: JV Company: Sovereign

Sovereign Consulting Inc

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal
Location: RI Concept
Well ID: 15MW3
Well Type: ☑ Monitoring ☐ Other:
Well Finish: ☑ Stick-up ☐ Flush Mount
Measuring Pt: ☑ Top of Casing ☐ Other:
Total Depth as Constructed (ft bgs): 13.66 Screened Interval:
Well Casing: Diameter: 2 Material: PVC
Well Screen: Diameter: 2

Deployment

Date and Time of Deployment Date 8-25-15 Time 1345
Weather Conditions
Depth to GW @ Time of Deployment 4.87
Type of PDB Used: ☑ **Lab Filled (Modified Trip Blank must be taken at time of deployment)**
☐ Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
Dimensions of PDB: Length (in.) _____ Diameter (in.) _____
Position of PDB Weight:
☐ Attached to bottom of PDB and suspended in well
☐ Attached to bottom of deployment line and suspended in well
☑ Attached to bottom of deployment lin and resting on bottom of well (preferred)

Retrieval (note: mimimum deployment period is 2 weeks)

Date and Time of Retrieval Date 9/8/15 Time 9:40
Total # of Days Deployed
Weather Conditions Sunny 80's
Depth to GW at Time of Retrieval 5.32
Downhole Field Parameters Upon Retrieval:
Temp 24.40 ORP 14 Water Quality Meters: Horiba
pH 8.55 DO 4.10 Serial #: UUG93EKH

Notes/Observations:

Field Sampling Tech: JV Company: Sovereign

Sovereign Consulting Inc

Passive Diffusion Bag (PDB) Sampling Form

Site: Picatinny Arsenal

Location: RI Concept

Well ID: 15MW4

Well Type: [x] Monitoring [ ] Other:

Well Finish: [x] Stick-up [ ] Flush Mount

Measuring Pt: [x] Top of Casing [ ] Other:

Total Depth as Constructed (ft bgs): 10.95 Screened Interval:

Well Casing: Diameter: 2 Material: PVC

Well Screen: Diameter: 2

Deployment

Date and Time of Deployment Date 8-25-15 Time 1350

Weather Conditions

Depth to GW @ Time of Deployment 3.07

Type of PDB Used:

[ ] **Lab Filled (Modified Trip Blank must be taken at time of deployment)**

[ ] Field Filled (Modified Equipment Blank of fill water must be taken at time of deployment. If PDB isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

Dimensions of PDB: Length (in.) _____ Diameter (in.) _____

Position of PDB Weight:

[ ] Attached to bottom of PDB and suspended in well

[ ] Attached to bottom of deployment line and suspended in well

[x] Attached to bottom of deployment lin and resting on bottom of well (preferred)

Retrieval (note: mimimum deployment period is 2 weeks)

Date and Time of Retrieval Date 9/9/15 Time 9:50

Total # of Days Deployed

Weather Conditions Sunny 80's

Depth to GW at Time of Retrieval 3.97

Downhole Field Parameters Upon Retrieval:

Temp 22.31 ORP 41 Water Quality Meters: Horiba

pH 7.80 DO 2.97 Serial #: WUG93EKH

Notes/Observations:

Field Sampling Tech: JV Company: Sovereign

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Appendix B

Laboratory and Data Validation Reports

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New England ACCUTEST LABORATORIES

10/08/15

Technical Report for

EA Engineering

SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

RB577

Accutest Job Number: MC41696

Sampling Date: 09/23/15

Report to:

EA Engineering

tlamond@eaest.com
hwilliams@eaest.com; fdesantis@eaest.com
ATTN: Tara Lamond

Total number of pages in report: **509**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

EA Engineering

Job No: MC41696

SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Project No: RB577

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC41696-1	09/23/15	09:25	DTAT	09/24/15	AQ	Ground Water	78MW1
MC41696-1D	09/23/15	09:25	DTAT	09/24/15	AQ	Water Dup/MSD	78MW1
MC41696-1S	09/23/15	09:25	DTAT	09/24/15	AQ	Water Matrix Spike	78MW1
MC41696-2	09/23/15	00:00	DTAT	09/24/15	AQ	Ground Water	DUP 78 092315
MC41696-3	09/23/15	09:35	DTAT	09/24/15	AQ	Ground Water	78MW3
MC41696-4	09/23/15	09:45	DTAT	09/24/15	AQ	Ground Water	78MW4
MC41696-5	09/23/15	09:55	DTAT	09/24/15	AQ	Ground Water	78MW6
MC41696-6	09/23/15	12:20	DTAT	09/24/15	AQ	Field Blank Water	FIELD BLANK
MC41696-7	09/23/15	00:00	DTAT	09/24/15	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	EA Engineering	**Job No**	MC41696
Site:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ	**Report Date**	10/8/2015 10:38:53 AM

5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were collected on 09/23/2015 and were received at Accutest on 09/24/2015 properly preserved, at 4.8 Deg. C and intact. These Samples received an Accutest job number of MC41696. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSH2507

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC41696-1MS, MC41696-1MSD were used as the QC samples indicated.
- MC41696-1MS/MSD for Styrene are outside control limits due to possible matrix interference. Refer to Blank Spike.
- Continuing calibration check standard MSH2507-CC2500 for dichlorodifluoromethane, vinyl chloride, trichlorofluoromethane exceed 20% Difference (response biased high). Associated samples are non-detect for this compound.
- Initial calibration verification standard MSH2500-ICV2500 for acetone exceed 20% Difference (response biased high). Associated samples are non-detect for these compounds.

Matrix: AQ **Batch ID:** MSH2509

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC41758-1MS, MC41758-1MSD were used as the QC samples indicated.
- RPD(s) for MC41758-1MSD for Bromomethane, Chloroethane, Chloromethane, Dichlorodifluoromethane, Trichlorofluoromethane, Vinyl chloride are outside DOD criteria, but within in-house criteria.
- MC41758-1MS for Benzene, Chlorobenzene, Styrene are outside DOD criteria, but within in-house criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC41696).

Summary of Hits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
MC41696-1	**78MW1**					
cis-1,2-Dichloroethene		0.88 J	1.0	0.50	ug/l	SW846 8260C
MC41696-2	**DUP 78 092315**					
cis-1,2-Dichloroethene		1.0	1.0	0.50	ug/l	SW846 8260C
MC41696-3	**78MW3**					
No hits reported in this sample.						
MC41696-4	**78MW4**					
No hits reported in this sample.						
MC41696-5	**78MW6**					
cis-1,2-Dichloroethene		2.5	1.0	0.50	ug/l	SW846 8260C
Vinyl chloride		10.8	1.0	0.50	ug/l	SW846 8260C
MC41696-6	**FIELD BLANK**					
No hits reported in this sample.						
MC41696-7	**TRIP BLANK**					
No hits reported in this sample.						

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	78MW1		
Lab Sample ID:	MC41696-1	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75335.D	1	10/05/15	KP	n/a	n/a	MSH2507
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.88	1.0	0.50	ug/l	J
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW1		
Lab Sample ID:	MC41696-1	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW1		
Lab Sample ID:	MC41696-1	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		80-116%
460-00-4	4-Bromofluorobenzene	98%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP 78 092315		
Lab Sample ID:	MC41696-2	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75336.D	1	10/05/15	KP	n/a	n/a	MSH2507
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.0	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 78 092315		
Lab Sample ID:	MC41696-2	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 78 092315		
Lab Sample ID:	MC41696-2	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		80-116%
460-00-4	4-Bromofluorobenzene	96%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	78MW3		
Lab Sample ID:	MC41696-3	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75386.D	1	10/06/15	KP	n/a	n/a	MSH2509
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW3		
Lab Sample ID:	MC41696-3	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW3		
Lab Sample ID:	MC41696-3	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		80-116%
460-00-4	4-Bromofluorobenzene	95%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	78MW4		
Lab Sample ID:	MC41696-4	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75338.D	1	10/05/15	KP	n/a	n/a	MSH2507
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW4		
Lab Sample ID:	MC41696-4	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW4		
Lab Sample ID:	MC41696-4	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	92%		80-116%
460-00-4	4-Bromofluorobenzene	93%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	78MW6		
Lab Sample ID:	MC41696-5	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75387.D	1	10/06/15	KP	n/a	n/a	MSH2509
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.5	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW6		
Lab Sample ID:	MC41696-5	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	10.8	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78MW6		
Lab Sample ID:	MC41696-5	**Date Sampled:**	09/23/15
Matrix:	AQ - Ground Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	MC41696-6	**Date Sampled:**	09/23/15
Matrix:	AQ - Field Blank Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75332.D	1	10/05/15	KP	n/a	n/a	MSH2507
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	MC41696-6	**Date Sampled:**	09/23/15
Matrix:	AQ - Field Blank Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	MC41696-6	**Date Sampled:**	09/23/15
Matrix:	AQ - Field Blank Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		80-116%
460-00-4	4-Bromofluorobenzene	95%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC41696-7	**Date Sampled:**	09/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75333.D	1	10/05/15	KP	n/a	n/a	MSH2507
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC41696-7	**Date Sampled:**	09/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC41696-7	**Date Sampled:**	09/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/24/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody
- QC Evaluation: DOD QSM5 Limits

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC41696

Client / Reporting Information

Company Name: EA. Science & Technology
Street Address: 6712 Brooklawn Prkway Suite 104
City / State / Zip: Syracuse, NY 13211
Project Contact / E-mail: Frank DeSantis Jr
Phone # / Fax #: 315 - 565 - 6554
Sampler(s) Name(s) / Phone #: DT

Project Information

Project Name: Picatinny Arsenal
Street: Rte. 15, Picatinny Arsenal
City:
Project#: RB577
Client PO#:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet): Voc's by EPA 8260B

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Voc's by EPA 8260B	LAB USE ONLY
-1	78MW1		9/23/15	925	DT	GW	2	2									X	
S	78MW1MS			925	DT	GW	2	2									X	
D	78MW1MSD			925	DT	GW	2	2									X	
-2	DUP 78092315			0000		GW	2	2									X	
-3	78MW3			935	DT	GW	2	2									X	
-4	78MW4			945	DT	GW	2	2									X	
-5	78MW6			955	DT	GW	2	2									X	
-6	Field Blank			1220	DT	FB	2	2									X	
-7	Trip Blank			—	AT	TB	2	2									X	

Loc. 3D2

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULL T1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

SHIP ALL SAMPLES TO MA LAB.

collected by: (SCI - Sovereign Consulting)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2		2
3	9/23/15 1500	3	4	9-23-15 1625	4
5	9-24-15 9:30	5			

Custody Seal # 228 [x] Intact [ ] Not intact; Preserved where applicable [ ]; On Ice [x]; Cooler Temp. 4.8

0.8°C 5°C

MC41696: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC41696 **Client:** EA **Project:** PICATINNY

Date / Time Received: 9/24/2015 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (4.8/4.8);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Thermometer ID:	G1;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200
495 Technology Center West, Bldg One
F: (508) 481-7753
Marlborough, MA 01752
www/accutest.com

MC41696: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC41696

SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Project No: RB577

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC41696-1 Collected: 23-SEP-15 09:25 By: DTAT 78MW1			Received: 24-SEP-15 By: SAP			
MC41696-1	SW846 8260C	05-OCT-15 14:45	KP			V8260STD
MC41696-2 Collected: 23-SEP-15 00:00 By: DTAT DUP 78 092315			Received: 24-SEP-15 By: SAP			
MC41696-2	SW846 8260C	05-OCT-15 15:12	KP			V8260STD
MC41696-3 Collected: 23-SEP-15 09:35 By: DTAT 78MW3			Received: 24-SEP-15 By: SAP			
MC41696-3	SW846 8260C	06-OCT-15 13:34	KP			V8260STD
MC41696-4 Collected: 23-SEP-15 09:45 By: DTAT 78MW4			Received: 24-SEP-15 By: SAP			
MC41696-4	SW846 8260C	05-OCT-15 16:15	KP			V8260STD
MC41696-5 Collected: 23-SEP-15 09:55 By: DTAT 78MW6			Received: 24-SEP-15 By: SAP			
MC41696-5	SW846 8260C	06-OCT-15 14:00	KP			V8260STD
MC41696-6 Collected: 23-SEP-15 12:20 By: DTAT FIELD BLANK			Received: 24-SEP-15 By: SAP			
MC41696-6	SW846 8260C	05-OCT-15 13:25	KP			V8260STD
MC41696-7 Collected: 23-SEP-15 00:00 By: DTAT TRIP BLANK			Received: 24-SEP-15 By: SAP			
MC41696-7	SW846 8260C	05-OCT-15 13:52	KP			V8260STD

Accutest Internal Chain of Custody

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Received: 09/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC41696-1.1	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-1.1	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-1.1	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-1.1	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-1.2	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-1.2	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-1.2	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-1.2	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-1.3	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-1.3	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-1.3	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-1.3	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-1.4	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-1.4	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-1.4	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-1.4	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-2.1	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-2.1	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-2.1	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-2.1	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-3.1	VOC Ref #3	Kayla Paradis	10/06/15 11:19	Retrieve from Storage
MC41696-3.1	Kayla Paradis	GCMSH	10/06/15 11:19	Load on Instrument
MC41696-3.1	GCMSH	Kayla Paradis	10/07/15 11:19	Unload from Instrument
MC41696-3.1	Kayla Paradis	VOC Ref #3	10/07/15 11:19	Return to Storage
MC41696-3.2	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-3.2	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-3.2	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-3.2	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-4.1	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-4.1	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-4.1	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-4.1	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-5.1	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-5.1	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-5.1	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-5.1	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage

Accutest Internal Chain of Custody

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Received: 09/24/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC41696-5.2	VOC Ref #3	Kayla Paradis	10/06/15 11:19	Retrieve from Storage
MC41696-5.2	Kayla Paradis	GCMSH	10/06/15 11:19	Load on Instrument
MC41696-5.2	GCMSH	Kayla Paradis	10/07/15 11:19	Unload from Instrument
MC41696-5.2	Kayla Paradis	VOC Ref #3	10/07/15 11:19	Return to Storage
MC41696-6.1	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-6.1	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-6.1	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-6.1	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage
MC41696-7.2	VOC Ref #3	Kayla Paradis	10/05/15 11:26	Retrieve from Storage
MC41696-7.2	Kayla Paradis	GCMSH	10/05/15 11:26	Load on Instrument
MC41696-7.2	GCMSH	Kayla Paradis	10/06/15 09:39	Unload from Instrument
MC41696-7.2	Kayla Paradis	VOC Ref #3	10/06/15 09:39	Return to Storage

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSH2507	SW846 8260C						
MSH2507-BS	67-64-1	Acetone	BSP	REC	109	%	39-160
MSH2507-BS	71-43-2	Benzene	BSP	REC	95	%	79-120
MSH2507-BS	108-86-1	Bromobenzene	BSP	REC	90	%	80-120
MSH2507-BS	74-97-5	Bromochloromethane	BSP	REC	100	%	78-123
MSH2507-BS	75-27-4	Bromodichloromethane	BSP	REC	100	%	79-125
MSH2507-BS	75-25-2	Bromoform	BSP	REC	97	%	66-130
MSH2507-BS	74-83-9	Bromomethane	BSP	REC	83	%	53-141
MSH2507-BS	78-93-3	2-Butanone (MEK)	BSP	REC	108	%	56-143
MSH2507-BS	104-51-8	n-Butylbenzene	BSP	REC	101	%	75-128
MSH2507-BS	135-98-8	sec-Butylbenzene	BSP	REC	93	%	77-126
MSH2507-BS	98-06-6	tert-Butylbenzene	BSP	REC	92	%	78-124
MSH2507-BS	75-15-0	Carbon disulfide	BSP	REC	89	%	64-133
MSH2507-BS	56-23-5	Carbon tetrachloride	BSP	REC	99	%	72-136
MSH2507-BS	108-90-7	Chlorobenzene	BSP	REC	89	%	82-118
MSH2507-BS	75-00-3	Chloroethane	BSP	REC	92	%	60-138
MSH2507-BS	67-66-3	Chloroform	BSP	REC	98	%	79-124
MSH2507-BS	74-87-3	Chloromethane	BSP	REC	82	%	50-139
MSH2507-BS	95-49-8	o-Chlorotoluene	BSP	REC	89	%	79-122
MSH2507-BS	106-43-4	p-Chlorotoluene	BSP	REC	93	%	78-122
MSH2507-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	100	%	62-128
MSH2507-BS	124-48-1	Dibromochloromethane	BSP	REC	83	%	74-126
MSH2507-BS	106-93-4	1,2-Dibromoethane	BSP	REC	96	%	77-121
MSH2507-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	97	%	80-119
MSH2507-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	94	%	80-119
MSH2507-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	92	%	79-118
MSH2507-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	37	%	32-152
MSH2507-BS	75-34-3	1,1-Dichloroethane	BSP	REC	96	%	77-125
MSH2507-BS	107-06-2	1,2-Dichloroethane	BSP	REC	99	%	73-128
MSH2507-BS	75-35-4	1,1-Dichloroethene	BSP	REC	98	%	71-131
MSH2507-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	100	%	78-123
MSH2507-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	97	%	75-124
MSH2507-BS	78-87-5	1,2-Dichloropropane	BSP	REC	99	%	78-122
MSH2507-BS	142-28-9	1,3-Dichloropropane	BSP	REC	97	%	80-119
MSH2507-BS	594-20-7	2,2-Dichloropropane	BSP	REC	105	%	60-139
MSH2507-BS	563-58-6	1,1-Dichloropropene	BSP	REC	91	%	79-125
MSH2507-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	105	%	75-124
MSH2507-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	93	%	73-127
MSH2507-BS	100-41-4	Ethylbenzene	BSP	REC	96	%	79-121
MSH2507-BS	87-68-3	Hexachlorobutadiene	BSP	REC	108	%	66-134
MSH2507-BS	591-78-6	2-Hexanone	BSP	REC	100	%	57-139
MSH2507-BS	74-88-4	Iodomethane	BSP	REC	93	%	69-131
MSH2507-BS	98-82-8	Isopropylbenzene	BSP	REC	88	%	72-131

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSH2507-BS	99-87-6	p-Isopropyltoluene	BSP	REC	96	%	77-127
MSH2507-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	105	%	71-124
MSH2507-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	101	%	67-130
MSH2507-BS	74-95-3	Methylene bromide	BSP	REC	104	%	79-123
MSH2507-BS	75-09-2	Methylene chloride	BSP	REC	102	%	74-124
MSH2507-BS	91-20-3	Naphthalene	BSP	REC	102	%	61-128
MSH2507-BS	103-65-1	n-Propylbenzene	BSP	REC	89	%	76-126
MSH2507-BS	100-42-5	Styrene	BSP	REC	92	%	78-123
MSH2507-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	96	%	78-124
MSH2507-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	92	%	71-121
MSH2507-BS	127-18-4	Tetrachloroethene	BSP	REC	92	%	74-129
MSH2507-BS	108-88-3	Toluene	BSP	REC	97	%	80-121
MSH2507-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	107	%	69-129
MSH2507-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	107	%	69-130
MSH2507-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	100	%	74-131
MSH2507-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	99	%	80-119
MSH2507-BS	79-01-6	Trichloroethene	BSP	REC	103	%	79-123
MSH2507-BS	75-69-4	Trichlorofluoromethane	BSP	REC	77	%	65-141
MSH2507-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	100	%	73-122
MSH2507-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	98	%	76-124
MSH2507-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	101	%	75-124
MSH2507-BS	108-05-4	Vinyl Acetate	BSP	REC	108	%	54-146
MSH2507-BS	75-01-4	Vinyl chloride	BSP	REC	78	%	58-137
MSH2507-BS		m,p-Xylene	BSP	REC	98	%	80-121
MSH2507-BS	95-47-6	o-Xylene	BSP	REC	94	%	78-122
MSH2507-BS	1330-20-7	Xylene (total)	BSP	REC	97	%	79-121
MSH2507-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	99	%	80-119
MSH2507-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
MSH2507-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	99	%	85-114
MC41696-1MS	67-64-1	Acetone	MS	REC	87	%	39-160
MC41696-1MS	71-43-2	Benzene	MS	REC	103	%	79-120
MC41696-1MS	108-86-1	Bromobenzene	MS	REC	93	%	80-120
MC41696-1MS	74-97-5	Bromochloromethane	MS	REC	104	%	78-123
MC41696-1MS	75-27-4	Bromodichloromethane	MS	REC	104	%	79-125
MC41696-1MS	75-25-2	Bromoform	MS	REC	97	%	66-130
MC41696-1MS	74-83-9	Bromomethane	MS	REC	87	%	53-141
MC41696-1MS	78-93-3	2-Butanone (MEK)	MS	REC	102	%	56-143
MC41696-1MS	104-51-8	n-Butylbenzene	MS	REC	100	%	75-128
MC41696-1MS	135-98-8	sec-Butylbenzene	MS	REC	96	%	77-126
MC41696-1MS	98-06-6	tert-Butylbenzene	MS	REC	98	%	78-124
MC41696-1MS	75-15-0	Carbon disulfide	MS	REC	97	%	64-133
MC41696-1MS	56-23-5	Carbon tetrachloride	MS	REC	117	%	72-136
MC41696-1MS	108-90-7	Chlorobenzene	MS	REC	93	%	82-118
MC41696-1MS	75-00-3	Chloroethane	MS	REC	96	%	60-138
MC41696-1MS	67-66-3	Chloroform	MS	REC	105	%	79-124

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41696-1MS	74-87-3	Chloromethane	MS	REC	86	%	50-139
MC41696-1MS	95-49-8	o-Chlorotoluene	MS	REC	94	%	79-122
MC41696-1MS	106-43-4	p-Chlorotoluene	MS	REC	94	%	78-122
MC41696-1MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	107	%	62-128
MC41696-1MS	124-48-1	Dibromochloromethane	MS	REC	87	%	74-126
MC41696-1MS	106-93-4	1,2-Dibromoethane	MS	REC	96	%	77-121
MC41696-1MS	95-50-1	1,2-Dichlorobenzene	MS	REC	100	%	80-119
MC41696-1MS	541-73-1	1,3-Dichlorobenzene	MS	REC	96	%	80-119
MC41696-1MS	106-46-7	1,4-Dichlorobenzene	MS	REC	95	%	79-118
MC41696-1MS	75-71-8	Dichlorodifluoromethane	MS	REC	35	%	32-152
MC41696-1MS	75-34-3	1,1-Dichloroethane	MS	REC	104	%	77-125
MC41696-1MS	107-06-2	1,2-Dichloroethane	MS	REC	103	%	73-128
MC41696-1MS	75-35-4	1,1-Dichloroethene	MS	REC	111	%	71-131
MC41696-1MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	106	%	78-123
MC41696-1MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	106	%	75-124
MC41696-1MS	78-87-5	1,2-Dichloropropane	MS	REC	104	%	78-122
MC41696-1MS	142-28-9	1,3-Dichloropropane	MS	REC	99	%	80-119
MC41696-1MS	594-20-7	2,2-Dichloropropane	MS	REC	106	%	60-139
MC41696-1MS	563-58-6	1,1-Dichloropropene	MS	REC	102	%	79-125
MC41696-1MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	106	%	75-124
MC41696-1MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	95	%	73-127
MC41696-1MS	100-41-4	Ethylbenzene	MS	REC	97	%	79-121
MC41696-1MS	87-68-3	Hexachlorobutadiene	MS	REC	103	%	66-134
MC41696-1MS	591-78-6	2-Hexanone	MS	REC	95	%	57-139
MC41696-1MS	74-88-4	Iodomethane	MS	REC	103	%	69-131
MC41696-1MS	98-82-8	Isopropylbenzene	MS	REC	92	%	72-131
MC41696-1MS	99-87-6	p-Isopropyltoluene	MS	REC	92	%	77-127
MC41696-1MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	106	%	71-124
MC41696-1MS	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	107	%	67-130
MC41696-1MS	74-95-3	Methylene bromide	MS	REC	106	%	79-123
MC41696-1MS	75-09-2	Methylene chloride	MS	REC	107	%	74-124
MC41696-1MS	91-20-3	Naphthalene	MS	REC	105	%	61-128
MC41696-1MS	103-65-1	n-Propylbenzene	MS	REC	91	%	76-126
MC41696-1MS	100-42-5	Styrene	MS	REC	55 [a]	%	78-123
MC41696-1MS	630-20-6	1,1,1,2-Tetrachloroethane	MS	REC	101	%	78-124
MC41696-1MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	99	%	71-121
MC41696-1MS	127-18-4	Tetrachloroethene	MS	REC	99	%	74-129
MC41696-1MS	108-88-3	Toluene	MS	REC	100	%	80-121
MC41696-1MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	107	%	69-129
MC41696-1MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	107	%	69-130
MC41696-1MS	71-55-6	1,1,1-Trichloroethane	MS	REC	113	%	74-131
MC41696-1MS	79-00-5	1,1,2-Trichloroethane	MS	REC	103	%	80-119
MC41696-1MS	79-01-6	Trichloroethene	MS	REC	108	%	79-123
MC41696-1MS	75-69-4	Trichlorofluoromethane	MS	REC	78	%	65-141
MC41696-1MS	96-18-4	1,2,3-Trichloropropane	MS	REC	99	%	73-122

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41696-1MS	95-63-6	1,2,4-Trimethylbenzene	MS	REC	87	%	76-124
MC41696-1MS	108-67-8	1,3,5-Trimethylbenzene	MS	REC	77	%	75-124
MC41696-1MS	108-05-4	Vinyl Acetate	MS	REC	105	%	54-146
MC41696-1MS	75-01-4	Vinyl chloride	MS	REC	81	%	58-137
MC41696-1MS		m,p-Xylene	MS	REC	91	%	80-121
MC41696-1MS	95-47-6	o-Xylene	MS	REC	86	%	78-122
MC41696-1MS	1330-20-7	Xylene (total)	MS	REC	89	%	79-121
MC41696-1MS	1868-53-7	Dibromofluoromethane	MS	SURR	103	%	80-119
MC41696-1MS	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
MC41696-1MS	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
MC41696-1MSD	67-64-1	Acetone	MSD	REC	87	%	39-160
MC41696-1MSD	67-64-1	Acetone	MSD	RPD	0	%	20
MC41696-1MSD	71-43-2	Benzene	MSD	REC	101	%	79-120
MC41696-1MSD	71-43-2	Benzene	MSD	RPD	2	%	20
MC41696-1MSD	108-86-1	Bromobenzene	MSD	REC	90	%	80-120
MC41696-1MSD	108-86-1	Bromobenzene	MSD	RPD	3	%	20
MC41696-1MSD	74-97-5	Bromochloromethane	MSD	REC	100	%	78-123
MC41696-1MSD	74-97-5	Bromochloromethane	MSD	RPD	4	%	20
MC41696-1MSD	75-27-4	Bromodichloromethane	MSD	REC	102	%	79-125
MC41696-1MSD	75-27-4	Bromodichloromethane	MSD	RPD	3	%	20
MC41696-1MSD	75-25-2	Bromoform	MSD	REC	96	%	66-130
MC41696-1MSD	75-25-2	Bromoform	MSD	RPD	1	%	20
MC41696-1MSD	74-83-9	Bromomethane	MSD	REC	105	%	53-141
MC41696-1MSD	74-83-9	Bromomethane	MSD	RPD	20	%	20
MC41696-1MSD	78-93-3	2-Butanone (MEK)	MSD	REC	97	%	56-143
MC41696-1MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	5	%	20
MC41696-1MSD	104-51-8	n-Butylbenzene	MSD	REC	95	%	75-128
MC41696-1MSD	104-51-8	n-Butylbenzene	MSD	RPD	5	%	20
MC41696-1MSD	135-98-8	sec-Butylbenzene	MSD	REC	93	%	77-126
MC41696-1MSD	135-98-8	sec-Butylbenzene	MSD	RPD	3	%	20
MC41696-1MSD	98-06-6	tert-Butylbenzene	MSD	REC	96	%	78-124
MC41696-1MSD	98-06-6	tert-Butylbenzene	MSD	RPD	2	%	20
MC41696-1MSD	75-15-0	Carbon disulfide	MSD	REC	93	%	64-133
MC41696-1MSD	75-15-0	Carbon disulfide	MSD	RPD	5	%	20
MC41696-1MSD	56-23-5	Carbon tetrachloride	MSD	REC	114	%	72-136
MC41696-1MSD	56-23-5	Carbon tetrachloride	MSD	RPD	2	%	20
MC41696-1MSD	108-90-7	Chlorobenzene	MSD	REC	92	%	82-118
MC41696-1MSD	108-90-7	Chlorobenzene	MSD	RPD	1	%	20
MC41696-1MSD	75-00-3	Chloroethane	MSD	REC	113	%	60-138
MC41696-1MSD	75-00-3	Chloroethane	MSD	RPD	16	%	20
MC41696-1MSD	67-66-3	Chloroform	MSD	REC	101	%	79-124
MC41696-1MSD	67-66-3	Chloroform	MSD	RPD	4	%	20
MC41696-1MSD	74-87-3	Chloromethane	MSD	REC	99	%	50-139
MC41696-1MSD	74-87-3	Chloromethane	MSD	RPD	15	%	20
MC41696-1MSD	95-49-8	o-Chlorotoluene	MSD	REC	92	%	79-122

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41696-1MSD	95-49-8	o-Chlorotoluene	MSD	RPD	3	%	20
MC41696-1MSD	106-43-4	p-Chlorotoluene	MSD	REC	92	%	78-122
MC41696-1MSD	106-43-4	p-Chlorotoluene	MSD	RPD	2	%	20
MC41696-1MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	104	%	62-128
MC41696-1MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	3	%	20
MC41696-1MSD	124-48-1	Dibromochloromethane	MSD	REC	86	%	74-126
MC41696-1MSD	124-48-1	Dibromochloromethane	MSD	RPD	0	%	20
MC41696-1MSD	106-93-4	1,2-Dibromoethane	MSD	REC	95	%	77-121
MC41696-1MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	1	%	20
MC41696-1MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	97	%	80-119
MC41696-1MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	3	%	20
MC41696-1MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	94	%	80-119
MC41696-1MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	3	%	20
MC41696-1MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	92	%	79-118
MC41696-1MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	3	%	20
MC41696-1MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	40	%	32-152
MC41696-1MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	15	%	20
MC41696-1MSD	75-34-3	1,1-Dichloroethane	MSD	REC	100	%	77-125
MC41696-1MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	3	%	20
MC41696-1MSD	107-06-2	1,2-Dichloroethane	MSD	REC	100	%	73-128
MC41696-1MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	3	%	20
MC41696-1MSD	75-35-4	1,1-Dichloroethene	MSD	REC	106	%	71-131
MC41696-1MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	5	%	20
MC41696-1MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	104	%	78-123
MC41696-1MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	2	%	20
MC41696-1MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	103	%	75-124
MC41696-1MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	3	%	20
MC41696-1MSD	78-87-5	1,2-Dichloropropane	MSD	REC	102	%	78-122
MC41696-1MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	2	%	20
MC41696-1MSD	142-28-9	1,3-Dichloropropane	MSD	REC	98	%	80-119
MC41696-1MSD	142-28-9	1,3-Dichloropropane	MSD	RPD	1	%	20
MC41696-1MSD	594-20-7	2,2-Dichloropropane	MSD	REC	101	%	60-139
MC41696-1MSD	594-20-7	2,2-Dichloropropane	MSD	RPD	5	%	20
MC41696-1MSD	563-58-6	1,1-Dichloropropene	MSD	REC	100	%	79-125
MC41696-1MSD	563-58-6	1,1-Dichloropropene	MSD	RPD	2	%	20
MC41696-1MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	105	%	75-124
MC41696-1MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	2	%	20
MC41696-1MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	93	%	73-127
MC41696-1MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	2	%	20
MC41696-1MSD	100-41-4	Ethylbenzene	MSD	REC	96	%	79-121
MC41696-1MSD	100-41-4	Ethylbenzene	MSD	RPD	1	%	20
MC41696-1MSD	87-68-3	Hexachlorobutadiene	MSD	REC	98	%	66-134
MC41696-1MSD	87-68-3	Hexachlorobutadiene	MSD	RPD	4	%	20
MC41696-1MSD	591-78-6	2-Hexanone	MSD	REC	92	%	57-139
MC41696-1MSD	591-78-6	2-Hexanone	MSD	RPD	3	%	20

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41696-1MSD	74-88-4	Iodomethane	MSD	REC	99	%	69-131
MC41696-1MSD	74-88-4	Iodomethane	MSD	RPD	3	%	20
MC41696-1MSD	98-82-8	Isopropylbenzene	MSD	REC	91	%	72-131
MC41696-1MSD	98-82-8	Isopropylbenzene	MSD	RPD	1	%	20
MC41696-1MSD	99-87-6	p-Isopropyltoluene	MSD	REC	90	%	77-127
MC41696-1MSD	99-87-6	p-Isopropyltoluene	MSD	RPD	2	%	20
MC41696-1MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	104	%	71-124
MC41696-1MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	2	%	20
MC41696-1MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	104	%	67-130
MC41696-1MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	2	%	20
MC41696-1MSD	74-95-3	Methylene bromide	MSD	REC	102	%	79-123
MC41696-1MSD	74-95-3	Methylene bromide	MSD	RPD	4	%	20
MC41696-1MSD	75-09-2	Methylene chloride	MSD	REC	103	%	74-124
MC41696-1MSD	75-09-2	Methylene chloride	MSD	RPD	4	%	20
MC41696-1MSD	91-20-3	Naphthalene	MSD	REC	102	%	61-128
MC41696-1MSD	91-20-3	Naphthalene	MSD	RPD	3	%	20
MC41696-1MSD	103-65-1	n-Propylbenzene	MSD	REC	88	%	76-126
MC41696-1MSD	103-65-1	n-Propylbenzene	MSD	RPD	2	%	20
MC41696-1MSD	100-42-5	Styrene	MSD	REC	57 [a]	%	78-123
MC41696-1MSD	100-42-5	Styrene	MSD	RPD	3	%	20
MC41696-1MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	REC	100	%	78-124
MC41696-1MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	RPD	1	%	20
MC41696-1MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	97	%	71-121
MC41696-1MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	2	%	20
MC41696-1MSD	127-18-4	Tetrachloroethene	MSD	REC	98	%	74-129
MC41696-1MSD	127-18-4	Tetrachloroethene	MSD	RPD	1	%	20
MC41696-1MSD	108-88-3	Toluene	MSD	REC	99	%	80-121
MC41696-1MSD	108-88-3	Toluene	MSD	RPD	1	%	20
MC41696-1MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	104	%	69-129
MC41696-1MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	3	%	20
MC41696-1MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	104	%	69-130
MC41696-1MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	3	%	20
MC41696-1MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	108	%	74-131
MC41696-1MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	5	%	20
MC41696-1MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	101	%	80-119
MC41696-1MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	2	%	20
MC41696-1MSD	79-01-6	Trichloroethene	MSD	REC	105	%	79-123
MC41696-1MSD	79-01-6	Trichloroethene	MSD	RPD	2	%	20
MC41696-1MSD	75-69-4	Trichlorofluoromethane	MSD	REC	94	%	65-141
MC41696-1MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	18	%	20
MC41696-1MSD	96-18-4	1,2,3-Trichloropropane	MSD	REC	96	%	73-122
MC41696-1MSD	96-18-4	1,2,3-Trichloropropane	MSD	RPD	3	%	20
MC41696-1MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	REC	86	%	76-124
MC41696-1MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	RPD	1	%	20
MC41696-1MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	REC	77	%	75-124

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41696-1MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	RPD	1	%	20
MC41696-1MSD	108-05-4	Vinyl Acetate	MSD	REC	103	%	54-146
MC41696-1MSD	108-05-4	Vinyl Acetate	MSD	RPD	2	%	20
MC41696-1MSD	75-01-4	Vinyl chloride	MSD	REC	97	%	58-137
MC41696-1MSD	75-01-4	Vinyl chloride	MSD	RPD	18	%	20
MC41696-1MSD		m,p-Xylene	MSD	REC	91	%	80-121
MC41696-1MSD		m,p-Xylene	MSD	RPD	0	%	20
MC41696-1MSD	95-47-6	o-Xylene	MSD	REC	86	%	78-122
MC41696-1MSD	95-47-6	o-Xylene	MSD	RPD	1	%	20
MC41696-1MSD	1330-20-7	Xylene (total)	MSD	REC	89	%	79-121
MC41696-1MSD	1330-20-7	Xylene (total)	MSD	RPD	0	%	20
MC41696-1MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	102	%	80-119
MC41696-1MSD	2037-26-5	Toluene-D8	MSD	SURR	101	%	89-112
MC41696-1MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	98	%	85-114
MSH2507-MB	1868-53-7	Dibromofluoromethane	MB	SURR	98	%	80-119
MSH2507-MB	2037-26-5	Toluene-D8	MB	SURR	104	%	89-112
MSH2507-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	95	%	85-114
MC41696-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
MC41696-1	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112
MC41696-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
MC41696-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
MC41696-2	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
MC41696-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	85-114
MC41696-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
MC41696-4	2037-26-5	Toluene-D8	SAMP	SURR	92	%	89-112
MC41696-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	93	%	85-114
MC41696-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	80-119
MC41696-6	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
MC41696-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	85-114
MC41696-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	80-119
MC41696-7	2037-26-5	Toluene-D8	SAMP	SURR	95	%	89-112
MC41696-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	85-114
MSH2509	SW846 8260C						
MSH2509-BS	67-64-1	Acetone	BSP	REC	112	%	39-160
MSH2509-BS	71-43-2	Benzene	BSP	REC	94	%	79-120
MSH2509-BS	108-86-1	Bromobenzene	BSP	REC	89	%	80-120
MSH2509-BS	74-97-5	Bromochloromethane	BSP	REC	96	%	78-123
MSH2509-BS	75-27-4	Bromodichloromethane	BSP	REC	95	%	79-125
MSH2509-BS	75-25-2	Bromoform	BSP	REC	95	%	66-130
MSH2509-BS	74-83-9	Bromomethane	BSP	REC	112	%	53-141
MSH2509-BS	78-93-3	2-Butanone (MEK)	BSP	REC	109	%	56-143
MSH2509-BS	104-51-8	n-Butylbenzene	BSP	REC	100	%	75-128
MSH2509-BS	135-98-8	sec-Butylbenzene	BSP	REC	94	%	77-126

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSH2509-BS	98-06-6	tert-Butylbenzene	BSP	REC	92	%	78-124
MSH2509-BS	75-15-0	Carbon disulfide	BSP	REC	90	%	64-133
MSH2509-BS	56-23-5	Carbon tetrachloride	BSP	REC	103	%	72-136
MSH2509-BS	108-90-7	Chlorobenzene	BSP	REC	88	%	82-118
MSH2509-BS	75-00-3	Chloroethane	BSP	REC	116	%	60-138
MSH2509-BS	67-66-3	Chloroform	BSP	REC	93	%	79-124
MSH2509-BS	74-87-3	Chloromethane	BSP	REC	106	%	50-139
MSH2509-BS	95-49-8	o-Chlorotoluene	BSP	REC	88	%	79-122
MSH2509-BS	106-43-4	p-Chlorotoluene	BSP	REC	89	%	78-122
MSH2509-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	101	%	62-128
MSH2509-BS	124-48-1	Dibromochloromethane	BSP	REC	83	%	74-126
MSH2509-BS	106-93-4	1,2-Dibromoethane	BSP	REC	92	%	77-121
MSH2509-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	94	%	80-119
MSH2509-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	91	%	80-119
MSH2509-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	90	%	79-118
MSH2509-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	83	%	32-152
MSH2509-BS	75-34-3	1,1-Dichloroethane	BSP	REC	93	%	77-125
MSH2509-BS	107-06-2	1,2-Dichloroethane	BSP	REC	92	%	73-128
MSH2509-BS	75-35-4	1,1-Dichloroethene	BSP	REC	100	%	71-131
MSH2509-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	97	%	78-123
MSH2509-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	98	%	75-124
MSH2509-BS	78-87-5	1,2-Dichloropropane	BSP	REC	95	%	78-122
MSH2509-BS	142-28-9	1,3-Dichloropropane	BSP	REC	93	%	80-119
MSH2509-BS	594-20-7	2,2-Dichloropropane	BSP	REC	104	%	60-139
MSH2509-BS	563-58-6	1,1-Dichloropropene	BSP	REC	95	%	79-125
MSH2509-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	102	%	75-124
MSH2509-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	90	%	73-127
MSH2509-BS	100-41-4	Ethylbenzene	BSP	REC	95	%	79-121
MSH2509-BS	87-68-3	Hexachlorobutadiene	BSP	REC	110	%	66-134
MSH2509-BS	591-78-6	2-Hexanone	BSP	REC	96	%	57-139
MSH2509-BS	74-88-4	Iodomethane	BSP	REC	96	%	69-131
MSH2509-BS	98-82-8	Isopropylbenzene	BSP	REC	90	%	72-131
MSH2509-BS	99-87-6	p-Isopropyltoluene	BSP	REC	95	%	77-127
MSH2509-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	98	%	71-124
MSH2509-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	95	%	67-130
MSH2509-BS	74-95-3	Methylene bromide	BSP	REC	97	%	79-123
MSH2509-BS	75-09-2	Methylene chloride	BSP	REC	97	%	74-124
MSH2509-BS	91-20-3	Naphthalene	BSP	REC	104	%	61-128
MSH2509-BS	103-65-1	n-Propylbenzene	BSP	REC	89	%	76-126
MSH2509-BS	100-42-5	Styrene	BSP	REC	90	%	78-123
MSH2509-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	95	%	78-124
MSH2509-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	94	%	71-121
MSH2509-BS	127-18-4	Tetrachloroethene	BSP	REC	95	%	74-129
MSH2509-BS	108-88-3	Toluene	BSP	REC	97	%	80-121
MSH2509-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	108	%	69-129

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSH2509-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	108	%	69-130
MSH2509-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	99	%	74-131
MSH2509-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	95	%	80-119
MSH2509-BS	79-01-6	Trichloroethene	BSP	REC	99	%	79-123
MSH2509-BS	75-69-4	Trichlorofluoromethane	BSP	REC	102	%	65-141
MSH2509-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	94	%	73-122
MSH2509-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	96	%	76-124
MSH2509-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	100	%	75-124
MSH2509-BS	108-05-4	Vinyl Acetate	BSP	REC	114	%	54-146
MSH2509-BS	75-01-4	Vinyl chloride	BSP	REC	112	%	58-137
MSH2509-BS		m,p-Xylene	BSP	REC	99	%	80-121
MSH2509-BS	95-47-6	o-Xylene	BSP	REC	92	%	78-122
MSH2509-BS	1330-20-7	Xylene (total)	BSP	REC	97	%	79-121
MSH2509-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	99	%	80-119
MSH2509-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
MSH2509-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	99	%	85-114
MC41758-1MS*	67-64-1	Acetone	MS	REC	77	%	39-160
MC41758-1MS*	71-43-2	Benzene	MS	REC	92	%	79-120
MC41758-1MS*	108-86-1	Bromobenzene	MS	REC	79	%	80-120
MC41758-1MS*	74-97-5	Bromochloromethane	MS	REC	95	%	78-123
MC41758-1MS*	75-27-4	Bromodichloromethane	MS	REC	93	%	79-125
MC41758-1MS*	75-25-2	Bromoform	MS	REC	86	%	66-130
MC41758-1MS*	74-83-9	Bromomethane	MS	REC	90	%	53-141
MC41758-1MS*	78-93-3	2-Butanone (MEK)	MS	REC	91	%	56-143
MC41758-1MS*	104-51-8	n-Butylbenzene	MS	REC	89	%	75-128
MC41758-1MS*	135-98-8	sec-Butylbenzene	MS	REC	84	%	77-126
MC41758-1MS*	98-06-6	tert-Butylbenzene	MS	REC	84	%	78-124
MC41758-1MS*	75-15-0	Carbon disulfide	MS	REC	82	%	64-133
MC41758-1MS*	56-23-5	Carbon tetrachloride	MS	REC	103	%	72-136
MC41758-1MS*	108-90-7	Chlorobenzene	MS	REC	81	%	82-118
MC41758-1MS*	75-00-3	Chloroethane	MS	REC	92	%	60-138
MC41758-1MS*	67-66-3	Chloroform	MS	REC	96	%	79-124
MC41758-1MS*	74-87-3	Chloromethane	MS	REC	82	%	50-139
MC41758-1MS*	95-49-8	o-Chlorotoluene	MS	REC	81	%	79-122
MC41758-1MS*	106-43-4	p-Chlorotoluene	MS	REC	82	%	78-122
MC41758-1MS*	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	99	%	62-128
MC41758-1MS*	124-48-1	Dibromochloromethane	MS	REC	78	%	74-126
MC41758-1MS*	106-93-4	1,2-Dibromoethane	MS	REC	85	%	77-121
MC41758-1MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	88	%	80-119
MC41758-1MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	84	%	80-119
MC41758-1MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	84	%	79-118
MC41758-1MS*	75-71-8	Dichlorodifluoromethane	MS	REC	35	%	32-152
MC41758-1MS*	75-34-3	1,1-Dichloroethane	MS	REC	93	%	77-125
MC41758-1MS*	107-06-2	1,2-Dichloroethane	MS	REC	93	%	73-128
MC41758-1MS*	75-35-4	1,1-Dichloroethene	MS	REC	96	%	71-131

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41758-1MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	96	%	78-123
MC41758-1MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	93	%	75-124
MC41758-1MS*	78-87-5	1,2-Dichloropropane	MS	REC	92	%	78-122
MC41758-1MS*	142-28-9	1,3-Dichloropropane	MS	REC	89	%	80-119
MC41758-1MS*	594-20-7	2,2-Dichloropropane	MS	REC	93	%	60-139
MC41758-1MS*	563-58-6	1,1-Dichloropropene	MS	REC	89	%	79-125
MC41758-1MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	94	%	75-124
MC41758-1MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	83	%	73-127
MC41758-1MS*	100-41-4	Ethylbenzene	MS	REC	87	%	79-121
MC41758-1MS*	87-68-3	Hexachlorobutadiene	MS	REC	94	%	66-134
MC41758-1MS*	591-78-6	2-Hexanone	MS	REC	81	%	57-139
MC41758-1MS*	74-88-4	Iodomethane	MS	REC	90	%	69-131
MC41758-1MS*	98-82-8	Isopropylbenzene	MS	REC	79	%	72-131
MC41758-1MS*	99-87-6	p-Isopropyltoluene	MS	REC	87	%	77-127
MC41758-1MS*	1634-04-4	Methyl Tert Butyl Ether	MS	REC	94	%	71-124
MC41758-1MS*	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	91	%	67-130
MC41758-1MS*	74-95-3	Methylene bromide	MS	REC	96	%	79-123
MC41758-1MS*	75-09-2	Methylene chloride	MS	REC	97	%	74-124
MC41758-1MS*	91-20-3	Naphthalene	MS	REC	92	%	61-128
MC41758-1MS*	103-65-1	n-Propylbenzene	MS	REC	79	%	76-126
MC41758-1MS*	100-42-5	Styrene	MS	REC	74	%	78-123
MC41758-1MS*	630-20-6	1,1,1,2-Tetrachloroethane	MS	REC	90	%	78-124
MC41758-1MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	90	%	71-121
MC41758-1MS*	127-18-4	Tetrachloroethene	MS	REC	83	%	74-129
MC41758-1MS*	108-88-3	Toluene	MS	REC	93	%	80-121
MC41758-1MS*	87-61-6	1,2,3-Trichlorobenzene	MS	REC	94	%	69-129
MC41758-1MS*	120-82-1	1,2,4-Trichlorobenzene	MS	REC	94	%	69-130
MC41758-1MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	101	%	74-131
MC41758-1MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	93	%	80-119
MC41758-1MS*	79-01-6	Trichloroethene	MS	REC	93	%	79-123
MC41758-1MS*	75-69-4	Trichlorofluoromethane	MS	REC	81	%	65-141
MC41758-1MS*	96-18-4	1,2,3-Trichloropropane	MS	REC	85	%	73-122
MC41758-1MS*	95-63-6	1,2,4-Trimethylbenzene	MS	REC	85	%	76-124
MC41758-1MS*	108-67-8	1,3,5-Trimethylbenzene	MS	REC	87	%	75-124
MC41758-1MS*	108-05-4	Vinyl Acetate	MS	REC	102	%	54-146
MC41758-1MS*	75-01-4	Vinyl chloride	MS	REC	81	%	58-137
MC41758-1MS*		m,p-Xylene	MS	REC	89	%	80-121
MC41758-1MS*	95-47-6	o-Xylene	MS	REC	85	%	78-122
MC41758-1MS*	1330-20-7	Xylene (total)	MS	REC	88	%	79-121
MC41758-1MS*	1868-53-7	Dibromofluoromethane	MS	SURR	108	%	80-119
MC41758-1MS*	2037-26-5	Toluene-D8	MS	SURR	101	%	89-112
MC41758-1MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	95	%	85-114
MC41758-1MSD*	67-64-1	Acetone	MSD	REC	84	%	39-160
MC41758-1MSD*	67-64-1	Acetone	MSD	RPD	8	%	20
MC41758-1MSD*	71-43-2	Benzene	MSD	REC	95	%	79-120

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41758-1MSD*	71-43-2	Benzene	MSD	RPD	4	%	20
MC41758-1MSD*	108-86-1	Bromobenzene	MSD	REC	84	%	80-120
MC41758-1MSD*	108-86-1	Bromobenzene	MSD	RPD	7	%	20
MC41758-1MSD*	74-97-5	Bromochloromethane	MSD	REC	98	%	78-123
MC41758-1MSD*	74-97-5	Bromochloromethane	MSD	RPD	4	%	20
MC41758-1MSD*	75-27-4	Bromodichloromethane	MSD	REC	98	%	79-125
MC41758-1MSD*	75-27-4	Bromodichloromethane	MSD	RPD	5	%	20
MC41758-1MSD*	75-25-2	Bromoform	MSD	REC	91	%	66-130
MC41758-1MSD*	75-25-2	Bromoform	MSD	RPD	5	%	20
MC41758-1MSD*	74-83-9	Bromomethane	MSD	REC	114	%	53-141
MC41758-1MSD*	74-83-9	Bromomethane	MSD	RPD	23	%	20
MC41758-1MSD*	78-93-3	2-Butanone (MEK)	MSD	REC	96	%	56-143
MC41758-1MSD*	78-93-3	2-Butanone (MEK)	MSD	RPD	6	%	20
MC41758-1MSD*	104-51-8	n-Butylbenzene	MSD	REC	92	%	75-128
MC41758-1MSD*	104-51-8	n-Butylbenzene	MSD	RPD	3	%	20
MC41758-1MSD*	135-98-8	sec-Butylbenzene	MSD	REC	88	%	77-126
MC41758-1MSD*	135-98-8	sec-Butylbenzene	MSD	RPD	4	%	20
MC41758-1MSD*	98-06-6	tert-Butylbenzene	MSD	REC	88	%	78-124
MC41758-1MSD*	98-06-6	tert-Butylbenzene	MSD	RPD	4	%	20
MC41758-1MSD*	75-15-0	Carbon disulfide	MSD	REC	86	%	64-133
MC41758-1MSD*	75-15-0	Carbon disulfide	MSD	RPD	4	%	20
MC41758-1MSD*	56-23-5	Carbon tetrachloride	MSD	REC	105	%	72-136
MC41758-1MSD*	56-23-5	Carbon tetrachloride	MSD	RPD	2	%	20
MC41758-1MSD*	108-90-7	Chlorobenzene	MSD	REC	85	%	82-118
MC41758-1MSD*	108-90-7	Chlorobenzene	MSD	RPD	5	%	20
MC41758-1MSD*	75-00-3	Chloroethane	MSD	REC	118	%	60-138
MC41758-1MSD*	75-00-3	Chloroethane	MSD	RPD	25	%	20
MC41758-1MSD*	67-66-3	Chloroform	MSD	REC	99	%	79-124
MC41758-1MSD*	67-66-3	Chloroform	MSD	RPD	3	%	20
MC41758-1MSD*	74-87-3	Chloromethane	MSD	REC	107	%	50-139
MC41758-1MSD*	74-87-3	Chloromethane	MSD	RPD	27	%	20
MC41758-1MSD*	95-49-8	o-Chlorotoluene	MSD	REC	84	%	79-122
MC41758-1MSD*	95-49-8	o-Chlorotoluene	MSD	RPD	4	%	20
MC41758-1MSD*	106-43-4	p-Chlorotoluene	MSD	REC	85	%	78-122
MC41758-1MSD*	106-43-4	p-Chlorotoluene	MSD	RPD	3	%	20
MC41758-1MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	108	%	62-128
MC41758-1MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	8	%	20
MC41758-1MSD*	124-48-1	Dibromochloromethane	MSD	REC	81	%	74-126
MC41758-1MSD*	124-48-1	Dibromochloromethane	MSD	RPD	4	%	20
MC41758-1MSD*	106-93-4	1,2-Dibromoethane	MSD	REC	89	%	77-121
MC41758-1MSD*	106-93-4	1,2-Dibromoethane	MSD	RPD	4	%	20
MC41758-1MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	92	%	80-119
MC41758-1MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	5	%	20
MC41758-1MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	87	%	80-119
MC41758-1MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	4	%	20

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41758-1MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	88	%	79-118
MC41758-1MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	4	%	20
MC41758-1MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	44	%	32-152
MC41758-1MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	22	%	20
MC41758-1MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	96	%	77-125
MC41758-1MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	3	%	20
MC41758-1MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	97	%	73-128
MC41758-1MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	4	%	20
MC41758-1MSD*	75-35-4	1,1-Dichloroethene	MSD	REC	99	%	71-131
MC41758-1MSD*	75-35-4	1,1-Dichloroethene	MSD	RPD	4	%	20
MC41758-1MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	REC	100	%	78-123
MC41758-1MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	4	%	20
MC41758-1MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	REC	97	%	75-124
MC41758-1MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	4	%	20
MC41758-1MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	97	%	78-122
MC41758-1MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	6	%	20
MC41758-1MSD*	142-28-9	1,3-Dichloropropane	MSD	REC	93	%	80-119
MC41758-1MSD*	142-28-9	1,3-Dichloropropane	MSD	RPD	4	%	20
MC41758-1MSD*	594-20-7	2,2-Dichloropropane	MSD	REC	95	%	60-139
MC41758-1MSD*	594-20-7	2,2-Dichloropropane	MSD	RPD	3	%	20
MC41758-1MSD*	563-58-6	1,1-Dichloropropene	MSD	REC	93	%	79-125
MC41758-1MSD*	563-58-6	1,1-Dichloropropene	MSD	RPD	5	%	20
MC41758-1MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	98	%	75-124
MC41758-1MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	5	%	20
MC41758-1MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	88	%	73-127
MC41758-1MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	5	%	20
MC41758-1MSD*	100-41-4	Ethylbenzene	MSD	REC	91	%	79-121
MC41758-1MSD*	100-41-4	Ethylbenzene	MSD	RPD	4	%	20
MC41758-1MSD*	87-68-3	Hexachlorobutadiene	MSD	REC	97	%	66-134
MC41758-1MSD*	87-68-3	Hexachlorobutadiene	MSD	RPD	3	%	20
MC41758-1MSD*	591-78-6	2-Hexanone	MSD	REC	86	%	57-139
MC41758-1MSD*	591-78-6	2-Hexanone	MSD	RPD	6	%	20
MC41758-1MSD*	74-88-4	Iodomethane	MSD	REC	95	%	69-131
MC41758-1MSD*	74-88-4	Iodomethane	MSD	RPD	6	%	20
MC41758-1MSD*	98-82-8	Isopropylbenzene	MSD	REC	83	%	72-131
MC41758-1MSD*	98-82-8	Isopropylbenzene	MSD	RPD	5	%	20
MC41758-1MSD*	99-87-6	p-Isopropyltoluene	MSD	REC	89	%	77-127
MC41758-1MSD*	99-87-6	p-Isopropyltoluene	MSD	RPD	3	%	20
MC41758-1MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	100	%	71-124
MC41758-1MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	5	%	20
MC41758-1MSD*	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	97	%	67-130
MC41758-1MSD*	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	7	%	20
MC41758-1MSD*	74-95-3	Methylene bromide	MSD	REC	101	%	79-123
MC41758-1MSD*	74-95-3	Methylene bromide	MSD	RPD	5	%	20
MC41758-1MSD*	75-09-2	Methylene chloride	MSD	REC	101	%	74-124

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41758-1MSD*	75-09-2	Methylene chloride	MSD	RPD	4	%	20
MC41758-1MSD*	91-20-3	Naphthalene	MSD	REC	104	%	61-128
MC41758-1MSD*	91-20-3	Naphthalene	MSD	RPD	12	%	20
MC41758-1MSD*	103-65-1	n-Propylbenzene	MSD	REC	82	%	76-126
MC41758-1MSD*	103-65-1	n-Propylbenzene	MSD	RPD	4	%	20
MC41758-1MSD*	100-42-5	Styrene	MSD	REC	79	%	78-123
MC41758-1MSD*	100-42-5	Styrene	MSD	RPD	5	%	20
MC41758-1MSD*	630-20-6	1,1,1,2-Tetrachloroethane	MSD	REC	94	%	78-124
MC41758-1MSD*	630-20-6	1,1,1,2-Tetrachloroethane	MSD	RPD	4	%	20
MC41758-1MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	94	%	71-121
MC41758-1MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	5	%	20
MC41758-1MSD*	127-18-4	Tetrachloroethene	MSD	REC	87	%	74-129
MC41758-1MSD*	127-18-4	Tetrachloroethene	MSD	RPD	4	%	20
MC41758-1MSD*	108-88-3	Toluene	MSD	REC	95	%	80-121
MC41758-1MSD*	108-88-3	Toluene	MSD	RPD	3	%	20
MC41758-1MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	101	%	69-129
MC41758-1MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	8	%	20
MC41758-1MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	101	%	69-130
MC41758-1MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	8	%	20
MC41758-1MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	103	%	74-131
MC41758-1MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	1	%	20
MC41758-1MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	96	%	80-119
MC41758-1MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	3	%	20
MC41758-1MSD*	79-01-6	Trichloroethene	MSD	REC	99	%	79-123
MC41758-1MSD*	79-01-6	Trichloroethene	MSD	RPD	5	%	20
MC41758-1MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	102	%	65-141
MC41758-1MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	23	%	20
MC41758-1MSD*	96-18-4	1,2,3-Trichloropropane	MSD	REC	92	%	73-122
MC41758-1MSD*	96-18-4	1,2,3-Trichloropropane	MSD	RPD	8	%	20
MC41758-1MSD*	95-63-6	1,2,4-Trimethylbenzene	MSD	REC	90	%	76-124
MC41758-1MSD*	95-63-6	1,2,4-Trimethylbenzene	MSD	RPD	6	%	20
MC41758-1MSD*	108-67-8	1,3,5-Trimethylbenzene	MSD	REC	92	%	75-124
MC41758-1MSD*	108-67-8	1,3,5-Trimethylbenzene	MSD	RPD	5	%	20
MC41758-1MSD*	108-05-4	Vinyl Acetate	MSD	REC	107	%	54-146
MC41758-1MSD*	108-05-4	Vinyl Acetate	MSD	RPD	5	%	20
MC41758-1MSD*	75-01-4	Vinyl chloride	MSD	REC	105	%	58-137
MC41758-1MSD*	75-01-4	Vinyl chloride	MSD	RPD	26	%	20
MC41758-1MSD*		m,p-Xylene	MSD	REC	93	%	80-121
MC41758-1MSD*		m,p-Xylene	MSD	RPD	4	%	20
MC41758-1MSD*	95-47-6	o-Xylene	MSD	REC	89	%	78-122
MC41758-1MSD*	95-47-6	o-Xylene	MSD	RPD	5	%	20
MC41758-1MSD*	1330-20-7	Xylene (total)	MSD	REC	91	%	79-121
MC41758-1MSD*	1330-20-7	Xylene (total)	MSD	RPD	4	%	20
MC41758-1MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	105	%	80-119
MC41758-1MSD*	2037-26-5	Toluene-D8	MSD	SURR	101	%	89-112

* Sample used for QC is not from job MC41696

QC Evaluation: DOD QSM5 Limits

Job Number: MC41696
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/23/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41758-1MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	95	%	85-114
MSH2509-MB	1868-53-7	Dibromofluoromethane	MB	SURR	100	%	80-119
MSH2509-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	89-112
MSH2509-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	95	%	85-114
MC41696-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	80-119
MC41696-3	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
MC41696-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	85-114
MC41696-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	80-119
MC41696-5	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
MC41696-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	85-114

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* Sample used for QC is not from job MC41696

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2507-MB	H75329.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

Method Blank Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2507-MB	H75329.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

Method Blank Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2507-MB	H75329.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-127%
2037-26-5	Toluene-D8	104%	80-116%
460-00-4	4-Bromofluorobenzene	95%	77-124%

Method Blank Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2509-MB	H75381.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

Method Blank Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2509-MB	H75381.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

Method Blank Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2509-MB	H75381.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	79-127%
2037-26-5	Toluene-D8	103%	80-116%
460-00-4	4-Bromofluorobenzene	95%	77-124%

Blank Spike Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2507-BS	H75326.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.6	109	10-200
71-43-2	Benzene	50	47.6	95	74-124
108-86-1	Bromobenzene	50	45.2	90	80-117
74-97-5	Bromochloromethane	50	49.9	100	73-130
75-27-4	Bromodichloromethane	50	49.9	100	76-136
75-25-2	Bromoform	50	48.5	97	63-139
74-83-9	Bromomethane	50	41.3	83	49-161
78-93-3	2-Butanone (MEK)	50	53.9	108	44-191
104-51-8	n-Butylbenzene	50	50.7	101	84-134
135-98-8	sec-Butylbenzene	50	46.5	93	76-125
98-06-6	tert-Butylbenzene	50	46.2	92	74-123
75-15-0	Carbon disulfide	50	44.7	89	45-138
56-23-5	Carbon tetrachloride	50	49.7	99	64-149
108-90-7	Chlorobenzene	50	44.4	89	73-114
75-00-3	Chloroethane	50	45.9	92	43-165
67-66-3	Chloroform	50	49.1	98	72-132
74-87-3	Chloromethane	50	41.0	82	30-173
95-49-8	o-Chlorotoluene	50	44.6	89	75-116
106-43-4	p-Chlorotoluene	50	46.3	93	78-116
96-12-8	1,2-Dibromo-3-chloropropane	50	49.9	100	50-157
124-48-1	Dibromochloromethane	50	41.7	83	75-133
106-93-4	1,2-Dibromoethane	50	47.9	96	72-133
95-50-1	1,2-Dichlorobenzene	50	48.4	97	73-122
541-73-1	1,3-Dichlorobenzene	50	46.9	94	76-117
106-46-7	1,4-Dichlorobenzene	50	46.0	92	74-120
75-71-8	Dichlorodifluoromethane	50	18.3	37	30-180
75-34-3	1,1-Dichloroethane	50	48.0	96	62-130
107-06-2	1,2-Dichloroethane	50	49.5	99	65-140
75-35-4	1,1-Dichloroethene	50	49.1	98	57-132
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	72-131
156-60-5	trans-1,2-Dichloroethene	50	48.5	97	69-127
78-87-5	1,2-Dichloropropane	50	49.5	99	74-130
142-28-9	1,3-Dichloropropane	50	48.3	97	80-129
594-20-7	2,2-Dichloropropane	50	52.5	105	54-162
563-58-6	1,1-Dichloropropene	50	45.7	91	75-116
10061-01-5	cis-1,3-Dichloropropene	50	52.4	105	86-141

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2507-BS	H75326.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	46.5	93	80-134
100-41-4	Ethylbenzene	50	47.8	96	76-125
87-68-3	Hexachlorobutadiene	50	54.1	108	64-154
591-78-6	2-Hexanone	50	50.1	100	35-200
74-88-4	Iodomethane	50	46.5	93	50-154
98-82-8	Isopropylbenzene	50	44.1	88	74-121
99-87-6	p-Isopropyltoluene	50	48.1	96	84-128
1634-04-4	Methyl Tert Butyl Ether	50	52.4	105	67-145
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.5	101	61-155
74-95-3	Methylene bromide	50	52.0	104	75-124
75-09-2	Methylene chloride	50	50.9	102	62-137
91-20-3	Naphthalene	50	51.0	102	24-164
103-65-1	n-Propylbenzene	50	44.3	89	76-120
100-42-5	Styrene	50	45.8	92	74-132
630-20-6	1,1,1,2-Tetrachloroethane	50	47.9	96	71-136
79-34-5	1,1,2,2-Tetrachloroethane	50	45.8	92	65-145
127-18-4	Tetrachloroethene	50	46.0	92	73-122
108-88-3	Toluene	50	48.5	97	80-122
87-61-6	1,2,3-Trichlorobenzene	50	53.6	107	33-170
120-82-1	1,2,4-Trichlorobenzene	50	53.6	107	43-159
71-55-6	1,1,1-Trichloroethane	50	50.2	100	68-137
79-00-5	1,1,2-Trichloroethane	50	49.4	99	76-134
79-01-6	Trichloroethene	50	51.5	103	80-125
75-69-4	Trichlorofluoromethane	50	38.7	77	56-166
96-18-4	1,2,3-Trichloropropane	50	49.9	100	65-147
95-63-6	1,2,4-Trimethylbenzene	50	49.2	98	79-124
108-67-8	1,3,5-Trimethylbenzene	50	50.3	101	80-130
108-05-4	Vinyl Acetate	50	54.2	108	72-200
75-01-4	Vinyl chloride	50	39.1	78	39-176
	m,p-Xylene	100	98.2	98	75-121
95-47-6	o-Xylene	50	46.9	94	71-123
1330-20-7	Xylene (total)	150	145	97	74-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2507-BS	H75326.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	79-127%
2037-26-5	Toluene-D8	102%	80-116%
460-00-4	4-Bromofluorobenzene	99%	77-124%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2509-BS	H75379.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	55.9	112	10-200
71-43-2	Benzene	50	47.2	94	74-124
108-86-1	Bromobenzene	50	44.5	89	80-117
74-97-5	Bromochloromethane	50	48.0	96	73-130
75-27-4	Bromodichloromethane	50	47.4	95	76-136
75-25-2	Bromoform	50	47.6	95	63-139
74-83-9	Bromomethane	50	56.2	112	49-161
78-93-3	2-Butanone (MEK)	50	54.6	109	44-191
104-51-8	n-Butylbenzene	50	50.1	100	84-134
135-98-8	sec-Butylbenzene	50	46.9	94	76-125
98-06-6	tert-Butylbenzene	50	46.0	92	74-123
75-15-0	Carbon disulfide	50	45.1	90	45-138
56-23-5	Carbon tetrachloride	50	51.5	103	64-149
108-90-7	Chlorobenzene	50	43.8	88	73-114
75-00-3	Chloroethane	50	57.8	116	43-165
67-66-3	Chloroform	50	46.6	93	72-132
74-87-3	Chloromethane	50	53.0	106	30-173
95-49-8	o-Chlorotoluene	50	43.9	88	75-116
106-43-4	p-Chlorotoluene	50	44.6	89	78-116
96-12-8	1,2-Dibromo-3-chloropropane	50	50.6	101	50-157
124-48-1	Dibromochloromethane	50	41.4	83	75-133
106-93-4	1,2-Dibromoethane	50	46.0	92	72-133
95-50-1	1,2-Dichlorobenzene	50	47.0	94	73-122
541-73-1	1,3-Dichlorobenzene	50	45.6	91	76-117
106-46-7	1,4-Dichlorobenzene	50	45.0	90	74-120
75-71-8	Dichlorodifluoromethane	50	41.4	83	30-180
75-34-3	1,1-Dichloroethane	50	46.6	93	62-130
107-06-2	1,2-Dichloroethane	50	45.8	92	65-140
75-35-4	1,1-Dichloroethene	50	50.2	100	57-132
156-59-2	cis-1,2-Dichloroethene	50	48.3	97	72-131
156-60-5	trans-1,2-Dichloroethene	50	49.1	98	69-127
78-87-5	1,2-Dichloropropane	50	47.4	95	74-130
142-28-9	1,3-Dichloropropane	50	46.3	93	80-129
594-20-7	2,2-Dichloropropane	50	51.9	104	54-162
563-58-6	1,1-Dichloropropene	50	47.5	95	75-116
10061-01-5	cis-1,3-Dichloropropene	50	50.8	102	86-141

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2509-BS	H75379.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	44.9	90	80-134
100-41-4	Ethylbenzene	50	47.7	95	76-125
87-68-3	Hexachlorobutadiene	50	54.9	110	64-154
591-78-6	2-Hexanone	50	48.0	96	35-200
74-88-4	Iodomethane	50	47.8	96	50-154
98-82-8	Isopropylbenzene	50	45.1	90	74-121
99-87-6	p-Isopropyltoluene	50	47.3	95	84-128
1634-04-4	Methyl Tert Butyl Ether	50	49.2	98	67-145
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.3	95	61-155
74-95-3	Methylene bromide	50	48.5	97	75-124
75-09-2	Methylene chloride	50	48.5	97	62-137
91-20-3	Naphthalene	50	52.0	104	24-164
103-65-1	n-Propylbenzene	50	44.4	89	76-120
100-42-5	Styrene	50	45.0	90	74-132
630-20-6	1,1,1,2-Tetrachloroethane	50	47.7	95	71-136
79-34-5	1,1,2,2-Tetrachloroethane	50	46.8	94	65-145
127-18-4	Tetrachloroethene	50	47.4	95	73-122
108-88-3	Toluene	50	48.3	97	80-122
87-61-6	1,2,3-Trichlorobenzene	50	54.0	108	33-170
120-82-1	1,2,4-Trichlorobenzene	50	54.0	108	43-159
71-55-6	1,1,1-Trichloroethane	50	49.6	99	68-137
79-00-5	1,1,2-Trichloroethane	50	47.5	95	76-134
79-01-6	Trichloroethene	50	49.3	99	80-125
75-69-4	Trichlorofluoromethane	50	51.0	102	56-166
96-18-4	1,2,3-Trichloropropane	50	47.2	94	65-147
95-63-6	1,2,4-Trimethylbenzene	50	48.0	96	79-124
108-67-8	1,3,5-Trimethylbenzene	50	49.8	100	80-130
108-05-4	Vinyl Acetate	50	56.9	114	72-200
75-01-4	Vinyl chloride	50	56.1	112	39-176
	m,p-Xylene	100	98.5	99	75-121
95-47-6	o-Xylene	50	46.1	92	71-123
1330-20-7	Xylene (total)	150	145	97	74-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2509-BS	H75379.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	79-127%
2037-26-5	Toluene-D8	102%	80-116%
460-00-4	4-Bromofluorobenzene	99%	77-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41696-1MS	H75347.D	1	10/05/15	KP	n/a	n/a	MSH2507
MC41696-1MSD	H75348.D	1	10/05/15	KP	n/a	n/a	MSH2507
MC41696-1	H75335.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Compound	MC41696-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10 U		50	43.5	87	50	43.7	87	0	10-156/30
71-43-2	Benzene	0.50 U		50	51.5	103	50	50.7	101	2	63-135/30
108-86-1	Bromobenzene	5.0 U		50	46.4	93	50	45.2	90	3	75-116/30
74-97-5	Bromochloromethane	5.0 U		50	52.0	104	50	50.0	100	4	67-136/30
75-27-4	Bromodichloromethane	1.0 U		50	52.2	104	50	50.8	102	3	69-140/30
75-25-2	Bromoform	1.0 U		50	48.5	97	50	48.2	96	1	57-138/30
74-83-9	Bromomethane	2.0 U		50	43.3	87	50	52.7	105	20	25-169/30
78-93-3	2-Butanone (MEK)	10 U		50	51.0	102	50	48.7	97	5	23-159/30
104-51-8	n-Butylbenzene	5.0 U		50	49.9	100	50	47.7	95	5	75-135/30
135-98-8	sec-Butylbenzene	5.0 U		50	47.9	96	50	46.7	93	3	70-125/30
98-06-6	tert-Butylbenzene	5.0 U		50	48.9	98	50	48.1	96	2	64-128/30
75-15-0	Carbon disulfide	5.0 U		50	48.7	97	50	46.5	93	5	40-139/30
56-23-5	Carbon tetrachloride	1.0 U		50	58.3	117	50	56.9	114	2	60-149/30
108-90-7	Chlorobenzene	1.0 U		50	46.4	93	50	46.1	92	1	70-115/30
75-00-3	Chloroethane	2.0 U		50	47.8	96	50	56.3	113	16	37-175/30
67-66-3	Chloroform	1.0 U		50	52.4	105	50	50.3	101	4	64-141/30
74-87-3	Chloromethane	2.0 U		50	42.8	86	50	49.5	99	15	21-178/30
95-49-8	o-Chlorotoluene	5.0 U		50	47.1	94	50	45.9	92	3	60-130/30
106-43-4	p-Chlorotoluene	5.0 U		50	46.8	94	50	46.0	92	2	70-120/30
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		50	53.6	107	50	52.0	104	3	51-156/30
124-48-1	Dibromochloromethane	1.0 U		50	43.3	87	50	43.2	86	0	70-131/30
106-93-4	1,2-Dibromoethane	1.0 U		50	48.1	96	50	47.6	95	1	72-131/30
95-50-1	1,2-Dichlorobenzene	1.0 U		50	49.9	100	50	48.5	97	3	68-122/30
541-73-1	1,3-Dichlorobenzene	1.0 U		50	48.0	96	50	46.8	94	3	71-117/30
106-46-7	1,4-Dichlorobenzene	1.0 U		50	47.3	95	50	45.9	92	3	69-120/30
75-71-8	Dichlorodifluoromethane	2.0 U		50	17.3	35	50	20.1	40	15	28-181/30
75-34-3	1,1-Dichloroethane	1.0 U		50	51.8	104	50	50.1	100	3	56-138/30
107-06-2	1,2-Dichloroethane	1.0 U		50	51.3	103	50	49.8	100	3	60-146/30
75-35-4	1,1-Dichloroethene	1.0 U		50	55.6	111	50	53.1	106	5	52-137/30
156-59-2	cis-1,2-Dichloroethene	0.88	J	50	53.9	106	50	52.9	104	2	64-139/30
156-60-5	trans-1,2-Dichloroethene	1.0 U		50	53.2	106	50	51.7	103	3	63-132/30
78-87-5	1,2-Dichloropropane	2.0 U		50	52.2	104	50	51.0	102	2	67-137/30
142-28-9	1,3-Dichloropropane	5.0 U		50	49.4	99	50	49.0	98	1	78-130/30
594-20-7	2,2-Dichloropropane	5.0 U		50	53.2	106	50	50.4	101	5	36-166/30
563-58-6	1,1-Dichloropropene	5.0 U		50	51.2	102	50	50.2	100	2	68-123/30
10061-01-5	cis-1,3-Dichloropropene	0.50 U		50	53.2	106	50	52.4	105	2	77-142/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41696-1MS	H75347.D	1	10/05/15	KP	n/a	n/a	MSH2507
MC41696-1MSD	H75348.D	1	10/05/15	KP	n/a	n/a	MSH2507
MC41696-1	H75335.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Compound	MC41696-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	0.50	U	50	47.3	95	50	46.5	93	2	73-136/30
100-41-4	Ethylbenzene	1.0	U	50	48.5	97	50	48.2	96	1	60-136/30
87-68-3	Hexachlorobutadiene	5.0	U	50	51.3	103	50	49.2	98	4	63-143/30
591-78-6	2-Hexanone	10	U	50	47.4	95	50	46.1	92	3	29-151/30
74-88-4	Iodomethane	5.0	U	50	51.4	103	50	49.7	99	3	37-158/30
98-82-8	Isopropylbenzene	5.0	U	50	46.2	92	50	45.7	91	1	67-123/30
99-87-6	p-Isopropyltoluene	5.0	U	50	45.9	92	50	45.1	90	2	78-126/30
1634-04-4	Methyl Tert Butyl Ether	1.0	U	50	53.0	106	50	51.8	104	2	60-156/30
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	50	53.3	107	50	52.1	104	2	47-167/30
74-95-3	Methylene bromide	5.0	U	50	53.1	106	50	51.0	102	4	70-130/30
75-09-2	Methylene chloride	2.0	U	50	53.7	107	50	51.7	103	4	55-144/30
91-20-3	Naphthalene	5.0	U	50	52.5	105	50	51.1	102	3	23-167/30
103-65-1	n-Propylbenzene	5.0	U	50	45.3	91	50	44.2	88	2	66-124/30
100-42-5	Styrene	5.0	U	50	27.6	55* [a]	50	28.4	57* [a]	3	61-137/30
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	50	50.4	101	50	50.1	100	1	71-132/30
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	50	49.6	99	50	48.7	97	2	62-149/30
127-18-4	Tetrachloroethene	1.0	U	50	49.6	99	50	49.0	98	1	65-124/30
108-88-3	Toluene	1.0	U	50	50.0	100	50	49.6	99	1	69-134/30
87-61-6	1,2,3-Trichlorobenzene	5.0	U	50	53.6	107	50	51.8	104	3	41-157/30
120-82-1	1,2,4-Trichlorobenzene	5.0	U	50	53.6	107	50	51.8	104	3	46-147/30
71-55-6	1,1,1-Trichloroethane	1.0	U	50	56.7	113	50	54.2	108	5	61-144/30
79-00-5	1,1,2-Trichloroethane	1.0	U	50	51.6	103	50	50.6	101	2	69-142/30
79-01-6	Trichloroethene	1.0	U	50	53.8	108	50	52.5	105	2	69-133/30
75-69-4	Trichlorofluoromethane	1.0	U	50	39.1	78	50	47.0	94	18	60-163/30
96-18-4	1,2,3-Trichloropropane	5.0	U	50	49.5	99	50	48.2	96	3	57-150/30
95-63-6	1,2,4-Trimethylbenzene	5.0	U	50	43.7	87	50	43.2	86	1	67-130/30
108-67-8	1,3,5-Trimethylbenzene	5.0	U	50	38.3	77	50	38.5	77	1	66-137/30
108-05-4	Vinyl Acetate	5.0	U	50	52.6	105	50	51.6	103	2	48-200/30
75-01-4	Vinyl chloride	1.0	U	50	40.4	81	50	48.4	97	18	39-176/30
	m,p-Xylene	1.0	U	100	90.9	91	100	90.9	91	0	64-128/30
95-47-6	o-Xylene	1.0	U	50	43.2	86	50	42.9	86	1	64-126/30
1330-20-7	Xylene (total)	1.0	U	150	134	89	150	134	89	0	65-127/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41696-1MS	H75347.D	1	10/05/15	KP	n/a	n/a	MSH2507
MC41696-1MSD	H75348.D	1	10/05/15	KP	n/a	n/a	MSH2507
MC41696-1	H75335.D	1	10/05/15	KP	n/a	n/a	MSH2507

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-1, MC41696-2, MC41696-4, MC41696-6, MC41696-7

CAS No.	Surrogate Recoveries	MS	MSD	MC41696-1	Limits
1868-53-7	Dibromofluoromethane	103%	102%	107%	79-127%
2037-26-5	Toluene-D8	100%	101%	104%	80-116%
460-00-4	4-Bromofluorobenzene	98%	98%	98%	77-124%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41758-1MS	H75400.D	1	10/06/15	KP	n/a	n/a	MSH2509
MC41758-1MSD	H75401.D	1	10/06/15	KP	n/a	n/a	MSH2509
MC41758-1	H75398.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Compound	MC41758-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10 U		50	38.7	77	50	41.8	84	8	10-156/30
71-43-2	Benzene	0.50 U		50	45.8	92	50	47.7	95	4	63-135/30
108-86-1	Bromobenzene	5.0 U		50	39.3	79	50	42.1	84	7	75-116/30
74-97-5	Bromochloromethane	5.0 U		50	47.4	95	50	49.2	98	4	67-136/30
75-27-4	Bromodichloromethane	1.0 U		50	46.7	93	50	49.2	98	5	69-140/30
75-25-2	Bromoform	1.0 U		50	43.2	86	50	45.3	91	5	57-138/30
74-83-9	Bromomethane	2.0 U		50	44.9	90	50	56.8	114	23	25-169/30
78-93-3	2-Butanone (MEK)	10 U		50	45.5	91	50	48.2	96	6	23-159/30
104-51-8	n-Butylbenzene	5.0 U		50	44.7	89	50	46.1	92	3	75-135/30
135-98-8	sec-Butylbenzene	5.0 U		50	42.2	84	50	43.8	88	4	70-125/30
98-06-6	tert-Butylbenzene	5.0 U		50	42.1	84	50	43.8	88	4	64-128/30
75-15-0	Carbon disulfide	5.0 U		50	41.2	82	50	43.0	86	4	40-139/30
56-23-5	Carbon tetrachloride	1.0 U		50	51.7	103	50	52.6	105	2	60-149/30
108-90-7	Chlorobenzene	1.0 U		50	40.4	81	50	42.5	85	5	70-115/30
75-00-3	Chloroethane	2.0 U		50	45.9	92	50	58.8	118	25	37-175/30
67-66-3	Chloroform	1.0 U		50	48.0	96	50	49.3	99	3	64-141/30
74-87-3	Chloromethane	2.0 U		50	40.8	82	50	53.4	107	27	21-178/30
95-49-8	o-Chlorotoluene	5.0 U		50	40.6	81	50	42.2	84	4	60-130/30
106-43-4	p-Chlorotoluene	5.0 U		50	41.2	82	50	42.6	85	3	70-120/30
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		50	49.7	99	50	53.8	108	8	51-156/30
124-48-1	Dibromochloromethane	1.0 U		50	38.8	78	50	40.5	81	4	70-131/30
106-93-4	1,2-Dibromoethane	1.0 U		50	42.7	85	50	44.3	89	4	72-131/30
95-50-1	1,2-Dichlorobenzene	1.0 U		50	43.8	88	50	46.0	92	5	68-122/30
541-73-1	1,3-Dichlorobenzene	1.0 U		50	41.9	84	50	43.7	87	4	71-117/30
106-46-7	1,4-Dichlorobenzene	1.0 U		50	41.9	84	50	43.8	88	4	69-120/30
75-71-8	Dichlorodifluoromethane	2.0 U		50	17.7	35	50	22.1	44	22	28-181/30
75-34-3	1,1-Dichloroethane	1.0 U		50	46.6	93	50	48.2	96	3	56-138/30
107-06-2	1,2-Dichloroethane	1.0 U		50	46.7	93	50	48.7	97	4	60-146/30
75-35-4	1,1-Dichloroethene	1.0 U		50	47.9	96	50	49.7	99	4	52-137/30
156-59-2	cis-1,2-Dichloroethene	1.0 U		50	48.1	96	50	49.9	100	4	64-139/30
156-60-5	trans-1,2-Dichloroethene	1.0 U		50	46.5	93	50	48.3	97	4	63-132/30
78-87-5	1,2-Dichloropropane	2.0 U		50	45.8	92	50	48.6	97	6	67-137/30
142-28-9	1,3-Dichloropropane	5.0 U		50	44.6	89	50	46.3	93	4	78-130/30
594-20-7	2,2-Dichloropropane	5.0 U		50	46.3	93	50	47.6	95	3	36-166/30
563-58-6	1,1-Dichloropropene	5.0 U		50	44.4	89	50	46.7	93	5	68-123/30
10061-01-5	cis-1,3-Dichloropropene	0.50 U		50	46.8	94	50	49.0	98	5	77-142/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41758-1MS	H75400.D	1	10/06/15	KP	n/a	n/a	MSH2509
MC41758-1MSD	H75401.D	1	10/06/15	KP	n/a	n/a	MSH2509
MC41758-1	H75398.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Compound	MC41758-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	0.50 U		50	41.7	83	50	43.8	88	5	73-136/30
100-41-4	Ethylbenzene	1.0 U		50	43.6	87	50	45.5	91	4	60-136/30
87-68-3	Hexachlorobutadiene	5.0 U		50	47.0	94	50	48.4	97	3	63-143/30
591-78-6	2-Hexanone	10 U		50	40.6	81	50	42.9	86	6	29-151/30
74-88-4	Iodomethane	5.0 U		50	44.8	90	50	47.5	95	6	37-158/30
98-82-8	Isopropylbenzene	5.0 U		50	39.4	79	50	41.6	83	5	67-123/30
99-87-6	p-Isopropyltoluene	5.0 U		50	43.3	87	50	44.5	89	3	78-126/30
1634-04-4	Methyl Tert Butyl Ether	1.0 U		50	47.2	94	50	49.8	100	5	60-156/30
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		50	45.5	91	50	48.7	97	7	47-167/30
74-95-3	Methylene bromide	5.0 U		50	48.0	96	50	50.5	101	5	70-130/30
75-09-2	Methylene chloride	2.0 U		50	48.4	97	50	50.3	101	4	55-144/30
91-20-3	Naphthalene	5.0 U		50	46.1	92	50	51.8	104	12	23-167/30
103-65-1	n-Propylbenzene	5.0 U		50	39.3	79	50	41.1	82	4	66-124/30
100-42-5	Styrene	5.0 U		50	37.2	74	50	39.3	79	5	61-137/30
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		50	45.1	90	50	46.9	94	4	71-132/30
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U		50	44.8	90	50	47.1	94	5	62-149/30
127-18-4	Tetrachloroethene	1.0 U		50	41.7	83	50	43.5	87	4	65-124/30
108-88-3	Toluene	1.0 U		50	46.3	93	50	47.7	95	3	69-134/30
87-61-6	1,2,3-Trichlorobenzene	5.0 U		50	47.0	94	50	50.7	101	8	41-157/30
120-82-1	1,2,4-Trichlorobenzene	5.0 U		50	47.0	94	50	50.7	101	8	46-147/30
71-55-6	1,1,1-Trichloroethane	1.0 U		50	50.7	101	50	51.4	103	1	61-144/30
79-00-5	1,1,2-Trichloroethane	1.0 U		50	46.4	93	50	47.8	96	3	69-142/30
79-01-6	Trichloroethene	1.0 U		50	46.7	93	50	49.3	99	5	69-133/30
75-69-4	Trichlorofluoromethane	1.0 U		50	40.4	81	50	51.0	102	23	60-163/30
96-18-4	1,2,3-Trichloropropane	5.0 U		50	42.7	85	50	46.2	92	8	57-150/30
95-63-6	1,2,4-Trimethylbenzene	5.0 U		50	42.7	85	50	45.2	90	6	67-130/30
108-67-8	1,3,5-Trimethylbenzene	5.0 U		50	43.7	87	50	45.8	92	5	66-137/30
108-05-4	Vinyl Acetate	5.0 U		50	51.0	102	50	53.4	107	5	48-200/30
75-01-4	Vinyl chloride	1.0 U		50	40.5	81	50	52.6	105	26	39-176/30
	m,p-Xylene	1.0 U		100	88.9	89	100	92.6	93	4	64-128/30
95-47-6	o-Xylene	1.0 U		50	42.7	85	50	44.7	89	5	64-126/30
1330-20-7	Xylene (total)	1.0 U		150	132	88	150	137	91	4	65-127/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41758-1MS	H75400.D	1	10/06/15	KP	n/a	n/a	MSH2509
MC41758-1MSD	H75401.D	1	10/06/15	KP	n/a	n/a	MSH2509
MC41758-1	H75398.D	1	10/06/15	KP	n/a	n/a	MSH2509

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41696-3, MC41696-5

CAS No.	Surrogate Recoveries	MS	MSD	MC41758-1	Limits
1868-53-7	Dibromofluoromethane	108%	105%	112%	79-127%
2037-26-5	Toluene-D8	101%	101%	100%	80-116%
460-00-4	4-Bromofluorobenzene	95%	95%	96%	77-124%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample: MSH2500-BFB
Lab File ID: H75150.D
Instrument ID: GCMSH
Injection Date: 09/25/15
Injection Time: 14:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14709	20.7		Pass
75	30.0 - 60.0% of mass 95	36365	51.3		Pass
95	Base peak, 100% relative abundance	70914	100.0		Pass
96	5.0 - 9.0% of mass 95	5116	7.21		Pass
173	Less than 2.0% of mass 174	145	0.20	(0.24) [a]	Pass
174	50.0 - 150.0% of mass 95	60112	84.8		Pass
175	5.0 - 9.0% of mass 174	4433	6.25	(7.37) [a]	Pass
176	95.0 - 101.0% of mass 174	60160	84.8	(100.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4035	5.69	(6.71) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2500-IC2500	H75151.D	09/25/15	15:22	00:26	Initial cal 0.5
MSH2500-IC2500	H75152.D	09/25/15	15:49	00:53	Initial cal 1
MSH2500-IC2500	H75153.D	09/25/15	16:16	01:20	Initial cal 2
MSH2500-IC2500	H75154.D	09/25/15	16:42	01:46	Initial cal 5
MSH2500-IC2500	H75155.D	09/25/15	17:09	02:13	Initial cal 10
MSH2500-IC2500	H75156.D	09/25/15	17:35	02:39	Initial cal 20
MSH2500-ICC2500	H75157.D	09/25/15	18:02	03:06	Initial cal 50
MSH2500-IC2500	H75158.D	09/25/15	18:29	03:33	Initial cal 100
MSH2500-IC2500	H75159.D	09/25/15	18:56	04:00	Initial cal 200
MSH2500-IC2500	H75160.D	09/25/15	19:22	04:26	Initial cal 400
MSH2500-ICV2500	H75163.D	09/25/15	20:41	05:45	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample: MSH2507-BFB
Lab File ID: H75325.D
Instrument ID: GCMSH
Injection Date: 10/05/15
Injection Time: 10:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17031	20.6		Pass
75	30.0 - 60.0% of mass 95	42159	51.0		Pass
95	Base peak, 100% relative abundance	82733	100.0		Pass
96	5.0 - 9.0% of mass 95	5706	6.90		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	69227	83.7		Pass
175	5.0 - 9.0% of mass 174	5104	6.17	(7.37) [a]	Pass
176	95.0 - 101.0% of mass 174	67962	82.1	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	4681	5.66	(6.89) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2507-CC2500	H75325.D	10/05/15	10:20	00:00	Continuing cal 50
MSH2507-BS	H75326.D	10/05/15	10:46	00:26	Blank Spike
MSH2507-MB	H75329.D	10/05/15	12:06	01:46	Method Blank
ZZZZZZ	H75330.D	10/05/15	12:32	02:12	(unrelated sample)
ZZZZZZ	H75331.D	10/05/15	12:59	02:39	(unrelated sample)
MC41696-6	H75332.D	10/05/15	13:25	03:05	FIELD BLANK
MC41696-7	H75333.D	10/05/15	13:52	03:32	TRIP BLANK
ZZZZZZ	H75334.D	10/05/15	14:19	03:59	(unrelated sample)
MC41696-1	H75335.D	10/05/15	14:45	04:25	78MW1
MC41696-2	H75336.D	10/05/15	15:12	04:52	DUP 78 092315
MC41696-4	H75338.D	10/05/15	16:15	05:55	78MW4
MC41756-1	H75340.D	10/05/15	17:08	06:48	(used for QC only; not part of job MC41696)
ZZZZZZ	H75341.D	10/05/15	17:35	07:15	(unrelated sample)
ZZZZZZ	H75342.D	10/05/15	18:01	07:41	(unrelated sample)
ZZZZZZ	H75343.D	10/05/15	18:27	08:07	(unrelated sample)
ZZZZZZ	H75344.D	10/05/15	18:54	08:34	(unrelated sample)
MC41756-1MS	H75345.D	10/05/15	19:20	09:00	Matrix Spike
MC41756-1MSD	H75346.D	10/05/15	19:46	09:26	Matrix Spike Duplicate
MC41696-1MS	H75347.D	10/05/15	20:13	09:53	Matrix Spike
MC41696-1MSD	H75348.D	10/05/15	20:39	10:19	Matrix Spike Duplicate
MSH2507-ECC2500	H75349.D	10/05/15	21:05	10:45	Ending cal 50

Instrument Performance Check (BFB)

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample: MSH2509-BFB
Lab File ID: H75377.D
Instrument ID: GCMSH
Injection Date: 10/06/15
Injection Time: 09:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16157	19.8		Pass
75	30.0 - 60.0% of mass 95	41494	50.7		Pass
95	Base peak, 100% relative abundance	81799	100.0		Pass
96	5.0 - 9.0% of mass 95	6082	7.44		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	70072	85.7		Pass
175	5.0 - 9.0% of mass 174	4826	5.90	(6.89) [a]	Pass
176	95.0 - 101.0% of mass 174	70103	85.7	(100.0) [a]	Pass
177	5.0 - 9.0% of mass 176	5141	6.28	(7.33) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2509-CC2500	H75379.D	10/06/15	10:26	00:53	Continuing cal 50
MSH2509-BS	H75379.D	10/06/15	10:26	00:53	Blank Spike
MSH2509-MB	H75381.D	10/06/15	11:19	01:46	Method Blank
ZZZZZZ	H75382.D	10/06/15	11:46	02:13	(unrelated sample)
ZZZZZZ	H75383.D	10/06/15	12:13	02:40	(unrelated sample)
ZZZZZZ	H75384.D	10/06/15	12:40	03:07	(unrelated sample)
ZZZZZZ	H75385.D	10/06/15	13:07	03:34	(unrelated sample)
MC41696-3	H75386.D	10/06/15	13:34	04:01	78MW3
MC41696-5	H75387.D	10/06/15	14:00	04:27	78MW6
ZZZZZZ	H75388.D	10/06/15	14:27	04:54	(unrelated sample)
ZZZZZZ	H75389.D	10/06/15	14:54	05:21	(unrelated sample)
ZZZZZZ	H75390.D	10/06/15	15:34	06:01	(unrelated sample)
ZZZZZZ	H75391.D	10/06/15	16:00	06:27	(unrelated sample)
ZZZZZZ	H75392.D	10/06/15	16:27	06:54	(unrelated sample)
ZZZZZZ	H75393.D	10/06/15	16:53	07:20	(unrelated sample)
ZZZZZZ	H75394.D	10/06/15	17:20	07:47	(unrelated sample)
ZZZZZZ	H75395.D	10/06/15	17:46	08:13	(unrelated sample)
ZZZZZZ	H75396.D	10/06/15	18:13	08:40	(unrelated sample)
ZZZZZZ	H75397.D	10/06/15	18:40	09:07	(unrelated sample)
MC41758-1	H75398.D	10/06/15	19:07	09:34	(used for QC only; not part of job MC41696)
ZZZZZZ	H75399.D	10/06/15	19:33	10:00	(unrelated sample)
MC41758-1MS	H75400.D	10/06/15	20:00	10:27	Matrix Spike
MC41758-1MSD	H75401.D	10/06/15	20:26	10:53	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Check Std:	MSH2507-CC2500	**Injection Date:**	10/05/15
Lab File ID:	H75325.D	**Injection Time:**	10:20
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	177995	8.61	282410	9.48	177774	12.73	159505	15.30	73457	6.19
Upper Limit [a]	355990	9.11	564820	9.98	355548	13.23	319010	15.80	146914	6.69
Lower Limit [b]	88998	8.11	141205	8.98	88887	12.23	79753	14.80	36729	5.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2507-BS	187534	8.61	296903	9.48	183299	12.73	164071	15.30	83006	6.19
MSH2507-MB	176737	8.61	276956	9.48	163061	12.73	144374	15.30	78272	6.19
ZZZZZZ	173361	8.61	276431	9.48	155566	12.73	140845	15.30	70601	6.19
ZZZZZZ	167954	8.61	266360	9.48	158203	12.73	140961	15.30	71548	6.19
MC41696-6	161833	8.61	258823	9.48	147718	12.73	133513	15.30	69845	6.19
MC41696-7	159236	8.62	251579	9.48	143662	12.73	130930	15.30	68999	6.19
ZZZZZZ	165281	8.61	263011	9.48	145918	12.73	137663	15.30	73176	6.20
MC41696-1	162107	8.62	254889	9.48	155293	12.73	134298	15.30	72685	6.19
MC41696-2	153345	8.61	246643	9.48	142778	12.73	128151	15.30	69047	6.19
MC41696-4	158192	8.61	258563	9.48	133591	12.73	130447	15.30	73394	6.20
MC41756-1	153372	8.61	245333	9.48	146421	12.73	129323	15.30	67360	6.19
ZZZZZZ	150328	8.61	242677	9.48	151076	12.73	128844	15.30	67829	6.18
ZZZZZZ	151919	8.61	245584	9.48	146323	12.73	129110	15.30	64649	6.19
ZZZZZZ	152973	8.62	243492	9.48	146708	12.73	125911	15.30	67084	6.19
ZZZZZZ	154959	8.61	249147	9.48	149814	12.73	128335	15.30	68731	6.20
MC41756-1MS	159065	8.61	256369	9.48	153459	12.73	145056	15.30	70177	6.19
MC41756-1MSD	172018	8.61	272707	9.48	165796	12.73	150498	15.30	73531	6.19
MC41696-1MS	179272	8.61	281541	9.48	176119	12.73	153983	15.30	77963	6.19
MC41696-1MSD	189164	8.61	293277	9.48	181045	12.74	159275	15.30	80193	6.19
MSH2507-ECC2500	185293	8.61	288666	9.48	176212	12.73	157433	15.30	75369	6.20

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Check Std:	MSH2509-CC2500	**Injection Date:**	10/06/15
Lab File ID:	H75379.D	**Injection Time:**	10:26
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	200835	8.61	313209	9.48	190481	12.73	168223	15.30	79084	6.19
Upper Limit [a]	401670	9.11	626418	9.98	380962	13.23	336446	15.80	158168	6.69
Lower Limit [b]	100418	8.11	156605	8.98	95241	12.23	84112	14.80	39542	5.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2509-BS	200835	8.61	313209	9.48	190481	12.73	168223	15.30	79084	6.19
MSH2509-MB	183392	8.61	286524	9.48	165290	12.74	146903	15.30	77292	6.19
ZZZZZZ	181359	8.62	285869	9.48	161798	12.73	143372	15.30	69542	6.19
ZZZZZZ	161110	8.61	258844	9.48	152575	12.73	132634	15.30	66333	6.19
ZZZZZZ	160897	8.61	256948	9.48	150232	12.73	134152	15.30	69379	6.19
ZZZZZZ	164600	8.62	259506	9.48	150797	12.73	130542	15.30	66854	6.20
MC41696-3	157138	8.62	249306	9.48	145745	12.73	126999	15.30	65861	6.19
MC41696-5	154068	8.61	245773	9.48	145929	12.73	125189	15.30	66261	6.19
ZZZZZZ	144226	8.61	229569	9.48	138043	12.73	118085	15.30	60979	6.19
ZZZZZZ	148802	8.62	237784	9.48	138475	12.73	122350	15.30	62557	6.19
ZZZZZZ	142801	8.61	228195	9.48	135963	12.73	119747	15.30	66337	6.19
ZZZZZZ	147138	8.62	237369	9.48	140598	12.73	119998	15.30	62299	6.18
ZZZZZZ	144351	8.61	234675	9.48	139137	12.73	123761	15.30	61052	6.19
ZZZZZZ	141203	8.61	227672	9.48	135999	12.73	119141	15.30	60400	6.19
ZZZZZZ	145845	8.61	235840	9.48	136990	12.74	122199	15.30	61238	6.19
ZZZZZZ	142401	8.62	234056	9.48	138119	12.73	121795	15.30	61871	6.19
ZZZZZZ	142240	8.61	231514	9.48	135866	12.73	121668	15.30	59901	6.19
ZZZZZZ	136816	8.61	219419	9.48	134743	12.74	116959	15.30	59845	6.19
MC41758-1	134155	8.62	219106	9.48	132117	12.73	115718	15.30	59260	6.19
ZZZZZZ	137674	8.61	224201	9.48	134353	12.73	117179	15.30	59920	6.19
MC41758-1MS	155566	8.61	248917	9.48	156761	12.73	143525	15.30	64175	6.19
MC41758-1MSD	165792	8.62	261279	9.48	163909	12.73	147139	15.30	70777	6.19

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC41696
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC41696-1	H75335.D	107	104	98
MC41696-2	H75336.D	107	96	96
MC41696-3	H75386.D	105	99	95
MC41696-4	H75338.D	107	92	93
MC41696-5	H75387.D	106	99	97
MC41696-6	H75332.D	103	99	95
MC41696-7	H75333.D	105	95	97
MC41696-1MS	H75347.D	103	100	98
MC41696-1MSD	H75348.D	102	101	98
MC41758-1MS	H75400.D	108	101	95
MC41758-1MSD	H75401.D	105	101	95
MSH2507-BS	H75326.D	99	102	99
MSH2507-MB	H75329.D	98	104	95
MSH2509-BS	H75379.D	99	102	99
MSH2509-MB	H75381.D	100	103	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-127%
S2 = Toluene-D8	80-116%
S3 = 4-Bromofluorobenzene	77-124%

Initial Calibration Summary

Job Number: MC41696 **Sample:** MSH2500-ICC2500
Account: EAENYS EA Engineering **Lab FileID:** H75157.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ


```
                         Response Factor Report  MSH

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Calibration Files
2   =H75153.D    0.5 =H75151.D    1   =H75152.D    5   =H75154.D
10  =H75155.D    20  =H75156.D    50  =H75157.D    100 =H75158.D
200 =H75159.D    400 =H75160.D        =                =

Compound
            2     0.5   1     5     10    20    50    100   200   400    Avg    %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
          1.053             1.235 1.246 1.152 1.073 1.146 1.141 1.193  1.155    5.97
3)  Ethanol
          0.102             0.134 0.143 0.165 0.124 0.130 0.155 0.163  0.139   15.30
           ---- Linear regression ----  Coefficient =  0.9928
             Response Ratio = -0.02818 + 0.15494 *A


4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  dichlorodifluoromethane
          0.404             0.687 0.630 0.568 0.550 0.537 0.512 0.542  0.554   15.00
           ---- Linear regression ----  Coefficient =  0.9982
             Response Ratio = 0.00339 + 0.53493 *A

6)  chloromethane
          0.478             0.707 0.620 0.547 0.487 0.443 0.399 0.369  0.506   22.43
           ---- Quadratic regression ----  Coefficient =  0.9956
             Response Ratio = 0.01085 + 0.47326 *A + -0.01384 *A^2

7)  vinyl chloride
          0.378       0.378 0.659 0.606 0.532 0.522 0.521 0.455 0.422  0.497   19.65
           ---- Quadratic regression ----  Coefficient =  0.9979
             Response Ratio = -0.00139 + 0.53784 *A + -0.01504 *A^2

8)  bromomethane
          0.235             0.425 0.380 0.350 0.336 0.321 0.295 0.303  0.330   17.35
           ---- Linear regression ----  Coefficient =  0.9966
             Response Ratio = 0.00444 + 0.30584 *A

9)  chloroethane
          0.227             0.380 0.356 0.317 0.313 0.316 0.302 0.336  0.318   14.19
10)  acetonitrile
                                                                       0.000#  -1.00
           ---- Linear regression ----  Coefficient =  0.0000
             Response Ratio = 0.00000 + 0.00000 *A

11)  trichlorofluoromethane
          0.540       0.570 0.952 0.894 0.776 0.776 0.777 0.738 0.804  0.759   17.59
           ---- Linear regression ----  Coefficient =  0.9979
             Response Ratio = -0.00240 + 0.78383 *A

12)  freon-113
                            0.531 0.514 0.502 0.469 0.483 0.482 0.489  0.496    4.29
```

Initial Calibration Summary

Job Number: MC41696 **Sample:** MSH2500-ICC2500
Account: EAENYS EA Engineering **Lab FileID:** H75157.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

```
13)  acrolein
                          0.019 0.020 0.020 0.023 0.024 0.024 0.026  0.022#  12.13
14)  1,1-dichloroethene
           0.368       0.406 0.472 0.453 0.447 0.417 0.433 0.428 0.439  0.429    7.04
15)  acetone
                          0.041 0.064 0.048 0.052 0.055 0.054 0.058  0.053#  13.87
16)  ethyl ether
                          0.427 0.441 0.422 0.414 0.431 0.423 0.442  0.429    2.40
17)  methyl acetate
                          0.551 0.590 0.453 0.439 0.462 0.462 0.462  0.488   11.83
18)  methylene chloride
           0.529          0.614 0.588 0.551 0.506 0.518 0.507 0.533  0.543    7.25
19)  methyl tert butyl ether
           1.180       1.319 1.407 1.405 1.335 1.283 1.351 1.332 1.403  1.335    5.42
20)  acrylonitrile
                          0.157 0.178 0.191 0.203 0.215 0.210 0.221  0.196   11.48
21)  allyl chloride
                          0.962 0.951 0.922 0.833 0.860 0.840 0.838  0.887    6.38
22)  trans-1,2-dichloroethene
           0.444       0.504 0.506 0.494 0.490 0.452 0.471 0.463 0.481  0.478    4.69
23)  iodomethane
                          0.794 0.783 0.766 0.726 0.761 0.754 0.798  0.769    3.27
24)  carbon disulfide
                          1.653 1.615 1.605 1.478 1.551 1.520 1.567  1.570    3.80
25)  propionitrile
                                0.050 0.058 0.064 0.073 0.076 0.080  0.067   17.39
            ---- Linear regression ----  Coefficient =  0.9985
              Response Ratio = -0.00795 + 0.07952 *A

26)  vinyl acetate
                          0.950 0.953 0.881 0.919 0.918 0.964 1.007  0.942    4.27
27)  chloroprene
                          0.820 0.828 0.829 0.803 0.844 0.835 0.829  0.827    1.58
28)  di-isopropyl ether
           1.536          1.924 1.927 1.842 1.729 1.771 1.716 1.657  1.763    7.59
29)  methacrylonitrile
                          0.375 0.361 0.317 0.318 0.336 0.328 0.337  0.339    6.43
30)  2-butanone
                                0.048 0.055 0.061 0.064 0.065 0.067  0.060#  11.74
31)  1,1-dichloroethane
           0.911       1.029 1.074 1.052 1.003 0.915 0.948 0.928 0.949  0.979    6.33
32)  tert-butyl ethyl ether
           1.363          1.678 1.718 1.640 1.596 1.705 1.690 1.725  1.639    7.29
33)  Hexane
                          1.023 0.970 0.945 0.877 0.873 0.832 0.775  0.899    9.46
34)  isobutyl alcohol
                          0.068 0.061 0.047 0.043 0.043 0.041 0.040  0.049#  22.01
            ---- Linear regression ----  Coefficient =  0.9994
              Response Ratio = 0.01597 + 0.04024 *A

35)  2,2-dichloropropane
                          0.762 0.735 0.732 0.681 0.713 0.704 0.716  0.720    3.56
36)  cis-1,2-dichloroethene
           0.481       0.550 0.566 0.557 0.538 0.497 0.515 0.505 0.525  0.526    5.51
37)  ethyl acetate
                          0.329 0.297 0.260 0.219 0.219 0.207 0.201  0.248   20.04
            ---- Linear regression ----  Coefficient =  0.9991
              Response Ratio = 0.01636 + 0.20226 *A

38)  bromochloromethane
```

```
                              0.270 0.277 0.258 0.241 0.251 0.244 0.257  0.257    5.16
39)  chloroform
           0.878       1.048 1.013 1.001 0.944 0.876 0.910 0.886 0.910  0.941    6.86
40)  dibromofluoromethane (s)
           0.511 0.517 0.517 0.513 0.515 0.507 0.505 0.497 0.484 0.491  0.506    2.30
41)  1,1,1-trichloroethane
           0.633       0.751 0.789 0.788 0.778 0.729 0.757 0.748 0.766  0.749    6.37

42) I   1,4-difluorobenzene   ----------------ISTD---------------------
43)  cyclohexane
                              0.604 0.596 0.594 0.567 0.588 0.601 0.598  0.593    2.08
44)  carbon tetrachloride
           0.287       0.347 0.403 0.394 0.403 0.388 0.417 0.435 0.452  0.392   12.53
45)  1,1-dichloropropene
                              0.433 0.421 0.432 0.413 0.436 0.442 0.448  0.432    2.76
46)  benzene
           1.150 1.216 1.305 1.384 1.331 1.306 1.208 1.261 1.276 1.276  1.271    5.27
47)  tetrahydrofuran
                              0.108 0.113 0.104 0.104 0.106 0.103 0.104  0.106    3.50
48)  1,2-dichloroethane
           0.440       0.498 0.529 0.511 0.482 0.443 0.455 0.451 0.458  0.474    6.80
49)  tert-amyl methyl ether
           0.689             0.864 0.878 0.850 0.854 0.905 0.916 0.958  0.864    9.21
50)  heptane
                              0.485 0.452 0.459 0.430 0.436 0.444 0.426  0.448    4.54
51)  trichloroethene
           0.296 0.271 0.335 0.364 0.346 0.353 0.325 0.341 0.345 0.355  0.333    8.66
52)  1,2-dichloropropane
           0.331             0.377 0.373 0.355 0.331 0.345 0.352 0.360  0.353    4.85
53)  dibromomethane
           0.184       0.197 0.228 0.226 0.216 0.205 0.213 0.215 0.221  0.212    6.72
54)  bromodichloromethane
           0.343             0.423 0.436 0.430 0.416 0.437 0.445 0.461  0.424    8.36
55)  methylcyclohexane
                              0.549 0.528 0.541 0.515 0.535 0.557 0.563  0.541    3.07
56)  2-chloroethyl vinyl ether
                              0.232 0.213 0.209 0.227 0.227 0.236 0.252  0.228    6.35
57)  methyl methacrylate
                              0.192 0.213 0.212 0.215 0.227 0.239 0.249  0.221    8.54
58)  1,4-dioxane
                                    0.002 0.003 0.003 0.003 0.003 0.004  0.003#  21.13
            ---- Linear regression ----  Coefficient =  0.9957
              Response Ratio = -0.00209 + 0.00346 *A

59)  cis-1,3-dichloropropene
           0.389 0.352 0.421 0.490 0.505 0.500 0.483 0.514 0.528 0.551  0.473   13.61
60)  toluene-d8 (s)
           1.218 1.218 1.174 1.242 1.233 1.246 1.215 1.193 1.200 1.190  1.213    1.95
61)  4-methyl-2-pentanone
                              0.382 0.367 0.358 0.332 0.346 0.353 0.372  0.358    4.71
62)  toluene
           0.690       0.774 0.834 0.805 0.798 0.737 0.762 0.791 0.798  0.777    5.50
63)  trans-1,3-dichloropropene
           0.326 0.256 0.330 0.433 0.459 0.467 0.455 0.492 0.508 0.524  0.425   21.12
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00310 + 0.47513 *A + 0.00639 *A^2

64)  1,1,2-trichloroethane
           0.232       0.248 0.283 0.274 0.267 0.246 0.253 0.257 0.265  0.258    6.02
65)  ethyl methacrylate
```

```
                              0.368 0.393 0.400 0.407 0.443 0.464 0.487  0.423   10.07

66) I   chlorobenzene-d5      ----------------ISTD---------------------
67)  tetrachloroethene
           0.492 0.481 0.597 0.638 0.620 0.605 0.571 0.617 0.652 0.690  0.596   11.12
68)  1,3-dichloropropane
                              0.950 0.949 0.881 0.821 0.872 0.882 0.913  0.895    5.13
69)  dibromochloromethane
           0.372 0.299 0.406 0.465 0.501 0.494 0.493 0.556 0.581 0.631  0.480   20.81
            ---- Linear regression ----  Coefficient =  0.9947
              Response Ratio = -0.00601 + 0.59655 *A

70)  1,2-dibromoethane
           0.440              0.548 0.554 0.512 0.491 0.542 0.548 0.582  0.527    8.49
71)  2-hexanone
                                   0.433 0.410 0.413 0.431 0.434 0.476  0.433    5.45
72)  chlorobenzene
           1.410       1.740 1.692 1.626 1.556 1.435 1.555 1.589 1.679  1.587    7.08
73)  1,1,1,2-tetrachloroethane
           0.376       0.467 0.489 0.502 0.484 0.468 0.514 0.529 0.590  0.491   11.70
74)  ethylbenzene
           2.069       2.430 2.603 2.574 2.574 2.439 2.697 2.744 2.781  2.546    8.50
75)  m,p-xylene
           0.744 0.760 0.904 0.996 0.999 0.984 0.948 1.061 1.093 1.062  0.955   12.66
76)  o-xylene
           0.792 0.811 0.957 1.007 1.048 1.000 0.954 1.053 1.076 1.102  0.980   10.76
77)  styrene
                              1.506 1.604 1.589 1.510 1.718 1.755 1.857  1.648    8.01
78)  bromoform
           0.186       0.210 0.258 0.285 0.280 0.314 0.369 0.389 0.451  0.305   28.16
            ---- Quadratic regression ----  Coefficient =  0.9993
              Response Ratio = -0.00421 + 0.31963 *A + 0.01671 *A^2

79)  trans-1,4-dichloro-2-butene
                              0.108 0.131 0.143 0.168 0.198 0.201 0.209  0.165   23.72
            ---- Linear regression ----  Coefficient =  0.9976
              Response Ratio = -0.01482 + 0.20626 *A


80) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
81)  isopropylbenzene
                              2.729 2.728 2.750 2.588 2.939 3.214 3.373  2.903    9.98
82)  bromofluorobenzene (s)
           0.955 0.960 0.956 0.956 0.956 0.954 0.944 1.016 1.081 1.127  0.990    6.46
83)  bromobenzene
                              0.774 0.761 0.741 0.700 0.795 0.870 0.976  0.802   11.54
84)  1,1,2,2-tetrachloroethane
           0.621 0.547 0.716 0.771 0.745 0.697 0.671 0.727 0.771 0.813  0.708   11.12
85)  1,2,3-trichloropropane
                              0.707 0.741 0.713 0.736 0.839 0.901 0.990  0.804   13.57
86)  n-propylbenzene
                              3.198 3.147 3.230 3.093 3.488 3.790 4.024  3.424   10.48
87)  2-chlorotoluene
                              2.003 2.002 1.962 1.834 2.012 2.151 2.372  2.048    8.32
88)  4-chlorotoluene
                              2.095 2.066 2.023 1.932 2.166 2.315 2.486  2.155    8.77
89)  1,3,5-trimethylbenzene
           1.758       2.062 2.296 2.282 2.330 2.185 2.369 2.526 2.721  2.281   11.95
90)  tert-butylbenzene
                              1.349 1.361 1.374 1.288 1.370 1.445 1.545  1.390    5.91
```

Initial Calibration Summary

Job Number: MC41696 **Sample:** MSH2500-ICC2500
Account: EAENYS EA Engineering **Lab FileID:** H75157.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

```
 91)  1,2,4-trimethylbenzene
            1.784       2.087 2.303 2.352 2.345 2.229 2.386 2.479 2.633  2.289   10.60
 92)  sec-butylbenzene
                                2.887 2.926 2.975 2.780 2.927 3.019 3.183  2.957    4.21
 93)  1,3-dichlorobenzene
            1.158       1.454 1.405 1.372 1.341 1.260 1.357 1.401 1.473  1.358    7.20
 94)  p-isopropyltoluene
                                2.488 2.471 2.476 2.375 2.508 2.554 2.530  2.486    2.31
 95)  1,4-dichlorobenzene
            1.349       1.694 1.560 1.526 1.476 1.356 1.453 1.484 1.433  1.481    7.16
 96)  1,2-dichlorobenzene
            1.116       1.322 1.340 1.350 1.293 1.189 1.195 1.148 1.145  1.233    7.51
 97)  n-butylbenzene
                                2.199 2.234 2.281 2.172 2.234 2.157 2.149  2.204    2.21
 98)  1,2-dibromo-3-chloropropane
                                0.069 0.080 0.075 0.073 0.068 0.057        0.070   10.93
 99)  1,3,5-trichlorobenzene
                                0.825 0.867 0.835 0.759 0.683 0.577        0.758   14.53
100)  1,2,4-trichlorobenzene
                                0.446 0.470 0.452 0.410 0.353 0.279 0.178  0.370   29.08
             ---- Quadratic regression ----  Coefficient =  0.9973
               Response Ratio = 0.01023 + 0.40664 *A + -0.02908 *A^2

101)  hexachlorobutadiene
                                0.350 0.344 0.348 0.298 0.227 0.161        0.288   27.08
             ---- Quadratic regression ----  Coefficient =  0.9955
               Response Ratio = 0.00579 + 0.32262 *A + -0.04142 *A^2

102)  naphthalene
                                0.691 0.729 0.696 0.644 0.519 0.387 0.227  0.556   33.94
             ---- Quadratic regression ----  Coefficient =  0.9926
               Response Ratio = 0.02029 + 0.61009 *A + -0.04906 *A^2

103)  1,2,3-trichlorobenzene
                                0.446 0.470 0.452 0.410 0.353 0.279 0.178  0.370   29.08
             ---- Quadratic regression ----  Coefficient =  0.9973
               Response Ratio = 0.01023 + 0.40664 *A + -0.02908 *A^2

104)  2-Methylnaphthalene
                                                                           0.000#  -1.00
105)  1-Methylnaphthalene
                                                                           0.000#  -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           H150925W.M        Tue Sep 29 16:09:12 2015
```

Initial Calibration Verification

Job Number: MC41696 **Sample:** MSH2500-ICV2500
Account: EAENYS EA Engineering **Lab FileID:** H75163.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H150925\H75163.D          Vial: 15
Acq On    : 25 Sep 2015   8:41 pm                   Operator: kaylap
Sample    : icv2500-50                              Inst    : MSH
Misc      : ms35302,msh2500,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%

       Compound                    AvgRF   CCRF      %Dev Area%  Dev(min)R.T.
-----------------------------------------------------------------------------
1 I   Tert Butyl Alcohol-d9        1.000   1.000      0.0  113   0.00    6.19
2 p   tertiary butyl alcohol       1.155   1.182     -2.3  124   0.00    6.27

          ----------------------- Amount  Calc.    %Drift   -------------
3 p   Ethanol                    5000.000 4444.403     11.1  123  -0.02    5.10


          ----------------------- AvgRF   CCRF      %Dev   --------------
4 I   pentafluorobenzene           1.000   1.000      0.0  114   0.00    8.61

          ----------------------- Amount  Calc.    %Drift   -------------
5 p   dichlorodifluoromethane     50.000  44.159     11.7   98   0.00    4.02
6 P   chloromethane               50.000  54.914     -9.8  120   0.00    4.27
7 p   vinyl chloride              50.000  57.806    -15.6  131   0.00    4.50
8 p   bromomethane                50.000  58.945    -17.9  124   0.00    4.96

          ----------------------- AvgRF   CCRF      %Dev   --------------
9 p   chloroethane                 0.318   0.370    -16.4  135   0.00    5.10

          ----------------------- Amount  Calc.    %Drift   -------------
10 p  acetonitrile                          ----------NA----------
11 p  trichlorofluoromethane      50.000  50.869     -1.7  117   0.00    5.70

          ----------------------- AvgRF   CCRF      %Dev   --------------
12 p  freon-113                    0.496   0.454      8.5  110   0.00    6.47
13 p  acrolein                     0.022   0.059   -168.2# 288#  0.00    5.70
14 p  1,1-dichloroethene           0.429   0.402      6.3  110   0.00    6.27
15 p  acetone                      0.053   0.070#   -32.1# 156  -0.01    5.83
16 p  ethyl ether                  0.429   0.415      3.3  114   0.00    5.93
17 p  methyl acetate               0.488   0.540    -10.7  140   0.00    6.45
18 p  methylene chloride           0.543   0.520      4.2  117   0.01    6.45
19 p  methyl tert butyl ether      1.335   1.439     -7.8  128   0.00    7.20
20 p  acrylonitrile                0.196   0.215     -9.7  121  -0.01    6.33
21 p  allyl chloride               0.887   0.765     13.8  105   0.00    6.51
22 p  trans-1,2-dichloroethene     0.478   0.453      5.2  114   0.00    7.11
23 p  iodomethane                  0.769   0.730      5.1  114   0.00    6.37
24 p  carbon disulfide             1.570   1.322     15.8  102   0.00    6.69

          ----------------------- Amount  Calc.    %Drift   -------------
25 p  propionitrile               50.000  51.801     -3.6  132  -0.01    7.38

          ----------------------- AvgRF   CCRF      %Dev   --------------
```

Initial Calibration Verification

Job Number: MC41696 **Sample:** MSH2500-ICV2500
Account: EAENYS EA Engineering **Lab FileID:** H75163.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	0.971	-3.1	120	0.00	7.46
27	p	chloroprene	0.827	0.740	10.5	105	0.00	7.72
28	p	di-isopropyl ether	1.763	1.824	-3.5	120	0.00	7.76
29	p	methacrylonitrile	0.339	0.335	1.2	120	-0.01	7.87
30	p	2-butanone	0.060	0.071#	-18.3	134	-0.01	7.77
31	P	1,1-dichloroethane	0.979	0.905	7.6	113	0.00	7.35
32	p	tert-butyl ethyl ether	1.639	1.679	-2.4	120	0.00	8.16
33	p	Hexane	0.899	0.789	12.2	102	0.00	7.74
		----------	Amount	Calc.	%Drift		----------	
34	p	isobutyl alcohol	250.000	388.922	-55.6#	173	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
35	p	2,2-dichloropropane	0.720	0.674	6.4	113	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.516	1.9	118	0.00	7.93
		----------	Amount	Calc.	%Drift		----------	
37	p	ethyl acetate	50.000	76.255	-52.5#	169	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
38	p	bromochloromethane	0.257	0.249	3.1	118	0.00	8.09
39	p	chloroform	0.941	0.891	5.3	116	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.485	4.2	109	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.734	2.0	115	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	111	0.00	9.48
43	p	cyclohexane	0.593	0.533	10.1	104	0.00	9.16
44	p	carbon tetrachloride	0.392	0.403	-2.8	115	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.416	3.7	111	0.00	9.05
46	p	benzene	1.271	1.229	3.3	113	0.00	9.27
47	p	tetrahydrofuran	0.106	0.113	-6.6	120	-0.01	8.46
48	p	1,2-dichloroethane	0.474	0.461	2.7	115	0.00	8.78
49	p	tert-amyl methyl ether	0.864	0.928	-7.4	120	0.00	9.40
50	p	heptane	0.448	0.440	1.8	113	0.00	9.76
51	p	trichloroethene	0.333	0.337	-1.2	115	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.357	-1.1	119	0.00	9.86
53	p	dibromomethane	0.212	0.218	-2.8	118	0.00	9.84
54	p	bromodichloromethane	0.424	0.425	-0.2	113	0.00	9.95
55	p	methylcyclohexane	0.541	0.511	5.5	110	0.00	10.41
56	p	2-chloroethyl vinyl ether	0.228	0.253	-11.0	123	0.00	10.33
57	p	methyl methacrylate	0.221	0.246	-11.3	127	0.00	10.05
		----------	Amount	Calc.	%Drift		----------	
58	p	1,4-dioxane	250.000	224.486	10.2	117	0.00	10.05
		----------	AvgRF	CCRF	%Dev		----------	
59	p	cis-1,3-dichloropropene	0.473	0.506	-7.0	116	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.208	0.4	110	0.00	11.28
61	p	4-methyl-2-pentanone	0.358	0.394	-10.1	132	0.00	10.66
62	p	toluene	0.777	0.783	-0.8	118	0.00	11.35
		----------	Amount	Calc.	%Drift		----------	
63	p	trans-1,3-dichloropropene	50.000	47.921	4.2	111	0.00	10.99
		----------	AvgRF	CCRF	%Dev		----------	
64	p	1,1,2-trichloroethane	0.258	0.266	-3.1	119	0.00	11.16
65	p	ethyl methacrylate	0.423	0.482	-13.9	131	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	110	0.00	12.73
67	p	tetrachloroethene	0.596	0.612	-2.7	118	0.00	12.09

Initial Calibration Verification

Job Number: MC41696 **Sample:** MSH2500-ICV2500
Account: EAENYS EA Engineering **Lab FileID:** H75163.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.928	-3.7	124	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	45.298	9.4	119	0.00	11.68
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.547	-3.8	122	0.00	11.94
71	p	2-hexanone	0.433	0.501	-15.7	133	-0.01	11.53
72	P	chlorobenzene	1.587	1.529	3.7	117	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.524	-6.7	123	0.00	12.69
74	p	ethylbenzene	2.546	2.652	-4.2	119	0.00	12.95
75	p	m,p-xylene	0.955	1.029	-7.7	119	0.00	13.13
76	p	o-xylene	0.980	0.989	-0.9	114	0.00	13.54
77	p	styrene	1.648	1.664	-1.0	121	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	53.304	-6.6	124	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	48.642	2.7	122	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.30
81	p	isopropylbenzene	2.903	2.844	2.0	115	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.984	0.6	109	0.00	13.96
83	p	bromobenzene	0.802	0.802	0.0	120	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.790	-11.6	123	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.859	-6.8	122	0.00	13.70
86	p	n-propylbenzene	3.424	3.287	4.0	111	0.00	14.36
87	p	2-chlorotoluene	2.048	1.992	2.7	113	0.00	14.47
88	p	4-chlorotoluene	2.155	2.128	1.3	115	0.00	14.55
89	p	1,3,5-trimethylbenzene	2.281	2.481	-8.8	118	0.00	14.63
90	p	tert-butylbenzene	1.390	1.390	0.0	113	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.410	-5.3	113	0.00	15.04
92	p	sec-butylbenzene	2.957	2.984	-0.9	112	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.360	-0.1	113	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.557	-2.9	112	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.470	0.7	113	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.305	-5.8	114	0.00	15.70
97	p	n-butylbenzene	2.204	2.347	-6.5	113	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.083	-18.6	118	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.769	-1.5	106	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	58.484	-17.0	114	0.00	17.55
101	p	hexachlorobutadiene	50.000	58.589	-17.2	114	0.00	17.85
102	p	naphthalene	50.000	57.539	-15.1	106	0.00	17.82
103	p	1,2,3-trichlorobenzene	50.000	58.484	-17.0	114	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene	0.000	0.022#	0.0	0#	0.00	19.30
105	p	1-Methylnaphthalene	0.000	0.015#	0.0	0#	0.00	19.55

(#) = Out of Range SPCC's out = 4 CCC's out = 0
H75157.D H150925W.M Wed Sep 30 09:17:29 2015

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2507-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75325.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H151005\H75325.D          Vial: 4
Acq On    :  5 Oct 2015  10:20 am                   Operator: kaylap
Sample    : cc2500-50                               Inst    : MSH
Misc      : ms35328,msh2507,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	85	0.00	6.19
2	p	tertiary butyl alcohol	1.155	1.140	1.3	90	0.00	6.27
			Amount	Calc.	%Drift			
3	p	Ethanol	5000.000	5008.953	-0.2	105	-0.02	5.10
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	89	0.00	8.61
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	72.538	-45.1#	125	0.00	4.02
6	P	chloromethane	50.000	56.480	-13.0	96	0.00	4.27
7	p	vinyl chloride	50.000	62.502	-25.0#	110	0.00	4.50
8	p	bromomethane	50.000	52.071	-4.1	85	0.01	4.96
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.318	0.371	-16.7	105	0.00	5.10
			Amount	Calc.	%Drift			
10	p	acetonitrile	50.000	0.000	100.0#	0	0.13	5.73
11	p	trichlorofluoromethane	50.000	60.927	-21.9#	109	0.00	5.69
			AvgRF	CCRF	%Dev			
12	p	freon-113	0.496	0.424	14.5	80	0.00	6.46
13	p	acrolein	0.022	0.025#	-13.6	94	0.00	5.70
14	p	1,1-dichloroethene	0.429	0.377	12.1	80	0.00	6.27
15	p	acetone	0.053	0.046#	13.2	79	0.00	5.84
16	p	ethyl ether	0.429	0.374	12.8	80	0.00	5.93
17	p	methyl acetate	0.488	0.418	14.3	84	0.00	6.45
18	p	methylene chloride	0.543	0.491	9.6	86	0.00	6.44
19	p	methyl tert butyl ether	1.335	1.225	8.2	85	0.00	7.20
20	p	acrylonitrile	0.196	0.196	0.0	85	-0.01	6.33
21	p	allyl chloride	0.887	0.818	7.8	87	0.00	6.51
22	p	trans-1,2-dichloroethene	0.478	0.418	12.6	82	0.00	7.10
23	p	iodomethane	0.769	0.619	19.5	75	0.00	6.36
24	p	carbon disulfide	1.570	1.330	15.3	80	0.00	6.69
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	47.240	5.5	92	-0.02	7.37
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2507-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75325.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	0.904	4.0	87	0.00	7.46
27	p	chloroprene	0.827	0.755	8.7	83	0.00	7.72
28	p	di-isopropyl ether	1.763	1.726	2.1	88	0.00	7.76
29	p	methacrylonitrile	0.339	0.320	5.6	89	-0.01	7.87
30	p	2-butanone	0.060	0.057#	5.0	83	-0.01	7.77
31	P	1,1-dichloroethane	0.979	0.899	8.2	87	0.00	7.35
32	p	tert-butyl ethyl ether	1.639	1.562	4.7	87	0.00	8.16
33	p	Hexane	0.899	0.822	8.6	83	0.00	7.74
		----------	Amount	Calc.	%Drift	----------		
34	p	isobutyl alcohol	250.000	274.506	-9.8	97	0.00	8.16
		----------	AvgRF	CCRF	%Dev	----------		
35	p	2,2-dichloropropane	0.720	0.729	-1.3	95	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.490	6.8	87	0.00	7.92
		----------	Amount	Calc.	%Drift	----------		
37	p	ethyl acetate	50.000	49.907	0.2	88	0.00	8.16
		----------	AvgRF	CCRF	%Dev	----------		
38	p	bromochloromethane	0.257	0.237	7.8	87	0.00	8.09
39	p	chloroform	0.941	0.893	5.1	90	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.510	-0.8	90	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.729	2.7	89	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	90	0.00	9.48
43	p	cyclohexane	0.593	0.508	14.3	81	0.00	9.16
44	p	carbon tetrachloride	0.392	0.385	1.8	89	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.386	10.6	84	0.00	9.05
46	p	benzene	1.271	1.167	8.2	87	0.00	9.27
47	p	tetrahydrofuran	0.106	0.093	12.3	81	0.00	8.46
48	p	1,2-dichloroethane	0.474	0.447	5.7	91	0.00	8.77
49	p	tert-amyl methyl ether	0.864	0.822	4.9	87	0.00	9.40
50	p	heptane	0.448	0.386	13.8	81	0.00	9.76
51	p	trichloroethene	0.333	0.337	-1.2	93	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.327	7.4	89	0.00	9.86
53	p	dibromomethane	0.212	0.203	4.2	89	0.00	9.84
54	p	bromodichloromethane	0.424	0.423	0.2	91	0.00	9.95
55	p	methylcyclohexane	0.541	0.467	13.7	82	0.00	10.41
56	p	2-chloroethyl vinyl ether	0.228	0.227	0.4	90	0.00	10.33
57	p	methyl methacrylate	0.221	0.206	6.8	86	0.00	10.05
		----------	Amount	Calc.	%Drift	----------		
58	p	1,4-dioxane	250.000	206.888	17.2	87	0.00	10.05
		----------	AvgRF	CCRF	%Dev	----------		
59	p	cis-1,3-dichloropropene	0.473	0.484	-2.3	90	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.232	-1.6	91	0.00	11.28
61	p	4-methyl-2-pentanone	0.358	0.332	7.3	90	0.00	10.66
62	p	toluene	0.777	0.720	7.3	88	0.00	11.35
		----------	Amount	Calc.	%Drift	----------		
63	p	trans-1,3-dichloropropene	50.000	48.983	2.0	93	0.00	10.99
		----------	AvgRF	CCRF	%Dev	----------		
64	p	1,1,2-trichloroethane	0.258	0.247	4.3	90	0.00	11.16
65	p	ethyl methacrylate	0.423	0.409	3.3	90	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	96	0.00	12.73
67	p	tetrachloroethene	0.596	0.515	13.6	86	0.00	12.09

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2507-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75325.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.790	11.7	92	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	41.253	17.5	94	0.00	11.68
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.468	11.2	91	0.00	11.94
71	p	2-hexanone	0.433	0.399	7.9	92	-0.01	11.53
72	P	chlorobenzene	1.587	1.377	13.2	92	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.460	6.3	94	0.00	12.69
74	p	ethylbenzene	2.546	2.341	8.1	92	0.00	12.95
75	p	m,p-xylene	0.955	0.910	4.7	92	0.00	13.13
76	p	o-xylene	0.980	0.919	6.2	92	0.00	13.54
77	p	styrene	1.648	1.462	11.3	93	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	46.623	6.8	94	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	46.883	6.2	102	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	93	0.00	15.30
81	p	isopropylbenzene	2.903	2.548	12.2	92	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.962	2.8	95	0.00	13.96
83	p	bromobenzene	0.802	0.687	14.3	91	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.622	12.1	86	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.768	4.5	97	0.00	13.70
86	p	n-propylbenzene	3.424	3.055	10.8	92	0.00	14.35
87	p	2-chlorotoluene	2.048	1.839	10.2	93	0.00	14.47
88	p	4-chlorotoluene	2.155	1.949	9.6	94	0.00	14.55
89	p	1,3,5-trimethylbenzene	2.281	2.153	5.6	92	0.00	14.63
90	p	tert-butylbenzene	1.390	1.272	8.5	92	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.208	3.5	92	0.00	15.04
92	p	sec-butylbenzene	2.957	2.712	8.3	91	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.270	6.5	94	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.322	6.6	91	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.372	7.4	94	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.198	2.8	94	0.00	15.69
97	p	n-butylbenzene	2.204	2.135	3.1	91	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.070	0.0	89	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.737	2.8	90	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	50.967	-1.9	90	0.00	17.55
101	p	hexachlorobutadiene	50.000	50.065	-0.1	90	0.00	17.85
102	p	naphthalene	50.000	52.009	-4.0	87	0.00	17.82
103	p	1,2,3-trichlorobenzene	50.000	50.967	-1.9	90	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene		----------NA----------				
105	p	1-Methylnaphthalene		----------NA----------				

(#) = Out of Range SPCC's out = 5 CCC's out = 0
H75157.D H150925W.M Mon Oct 05 11:02:40 2015

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2507-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75349.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H151005\H75349.D          Vial: 12
Acq On    :  5 Oct 2015   9:05 pm                   Operator: kaylap
Sample    : ecc2500-50                              Inst    : MSH
Misc      : ms35361,msh2507,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	87	0.00	6.20
2	p	tertiary butyl alcohol	1.155	1.095	5.2	89	0.00	6.27
			Amount	Calc.	%Drift			
3	p	Ethanol	5000.000	4951.413	1.0	106	-0.01	5.11
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	92	0.00	8.61
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	66.129	-32.3#	119	0.00	4.03
6	P	chloromethane	50.000	56.184	-12.4	99	0.00	4.27
7	p	vinyl chloride	50.000	62.628	-25.3#	114	0.00	4.50
8	p	bromomethane	50.000	55.221	-10.4	94	0.01	4.96
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.318	0.348	-9.4	103	0.00	5.11
			Amount	Calc.	%Drift			
10	p	acetonitrile		----------NA----------				
11	p	trichlorofluoromethane	50.000	55.669	-11.3	103	0.00	5.69
			AvgRF	CCRF	%Dev			
12	p	freon-113	0.496	0.404	18.5	79	0.00	6.46
13	p	acrolein	0.022	0.025#	-13.6	98	0.00	5.70
14	p	1,1-dichloroethene	0.429	0.368	14.2	81	0.00	6.27
15	p	acetone	0.053	0.045#	15.1	80	0.00	5.83
16	p	ethyl ether	0.429	0.384	10.5	86	0.00	5.93
17	p	methyl acetate	0.488	0.405	17.0	85	0.00	6.46
18	p	methylene chloride	0.543	0.478	12.0	87	0.00	6.45
19	p	methyl tert butyl ether	1.335	1.197	10.3	86	0.00	7.20
20	p	acrylonitrile	0.196	0.186	5.1	85	-0.01	6.33
21	p	allyl chloride	0.887	0.794	10.5	88	0.00	6.52
22	p	trans-1,2-dichloroethene	0.478	0.418	12.6	85	0.00	7.11
23	p	iodomethane	0.769	0.649	15.6	82	0.00	6.36
24	p	carbon disulfide	1.570	1.282	18.3	80	0.00	6.69
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	42.946	14.1	86	-0.01	7.37
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2507-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75349.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	0.822	12.7	82	0.00	7.46
27	p	chloroprene	0.827	0.749	9.4	86	0.00	7.72
28	p	di-isopropyl ether	1.763	1.669	5.3	89	0.00	7.76
29	p	methacrylonitrile	0.339	0.293	13.6	85	0.00	7.87
30	p	2-butanone	0.060	0.054#	10.0	82	0.00	7.77
31	P	1,1-dichloroethane	0.979	0.881	10.0	89	0.00	7.35
32	p	tert-butyl ethyl ether	1.639	1.535	6.3	89	0.00	8.16
33	p	Hexane	0.899	0.766	14.8	80	0.00	7.74
		----------	Amount	Calc.	%Drift	----------		
34	p	isobutyl alcohol	250.000	238.444	4.6	88	0.00	8.15
		----------	AvgRF	CCRF	%Dev	----------		
35	p	2,2-dichloropropane	0.720	0.621	13.7	84	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.478	9.1	89	0.00	7.93
		----------	Amount	Calc.	%Drift	----------		
37	p	ethyl acetate	50.000	44.999	10.0	83	0.00	8.15
		----------	AvgRF	CCRF	%Dev	----------		
38	p	bromochloromethane	0.257	0.227	11.7	87	0.00	8.09
39	p	chloroform	0.941	0.854	9.2	90	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.513	-1.4	94	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.685	8.5	87	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	92	0.00	9.48
43	p	cyclohexane	0.593	0.510	14.0	83	0.00	9.16
44	p	carbon tetrachloride	0.392	0.371	5.4	88	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.379	12.3	84	0.00	9.05
46	p	benzene	1.271	1.127	11.3	86	0.00	9.27
47	p	tetrahydrofuran	0.106	0.092	13.2	81	-0.01	8.45
48	p	1,2-dichloroethane	0.474	0.421	11.2	88	0.00	8.78
49	p	tert-amyl methyl ether	0.864	0.802	7.2	86	0.00	9.40
50	p	heptane	0.448	0.374	16.5	80	0.00	9.76
51	p	trichloroethene	0.333	0.308	7.5	87	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.319	9.6	89	0.00	9.86
53	p	dibromomethane	0.212	0.193	9.0	87	0.00	9.83
54	p	bromodichloromethane	0.424	0.405	4.5	90	0.00	9.95
55	p	methylcyclohexane	0.541	0.467	13.7	83	0.00	10.41
56	p	2-chloroethyl vinyl ether	0.228	0.223	2.2	90	0.00	10.33
57	p	methyl methacrylate	0.221	0.206	6.8	88	0.00	10.06
		----------	Amount	Calc.	%Drift	----------		
58	p	1,4-dioxane	250.000	212.917	14.8	91	0.00	10.06
		----------	AvgRF	CCRF	%Dev	----------		
59	p	cis-1,3-dichloropropene	0.473	0.472	0.2	90	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.244	-2.6	94	0.00	11.27
61	p	4-methyl-2-pentanone	0.358	0.327	8.7	91	0.00	10.67
62	p	toluene	0.777	0.707	9.0	88	0.00	11.35
		----------	Amount	Calc.	%Drift	----------		
63	p	trans-1,3-dichloropropene	50.000	46.991	6.0	91	0.00	10.99
		----------	AvgRF	CCRF	%Dev	----------		
64	p	1,1,2-trichloroethane	0.258	0.240	7.0	90	0.00	11.16
65	p	ethyl methacrylate	0.423	0.401	5.2	91	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	12.73
67	p	tetrachloroethene	0.596	0.513	13.9	85	0.00	12.09

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2507-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75349.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.785	12.3	91	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	41.351	17.3	94	0.00	11.69
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.462	12.3	89	0.00	11.94
71	p	2-hexanone	0.433	0.378	12.7	87	0.00	11.53
72	P	chlorobenzene	1.587	1.360	14.3	90	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.459	6.5	93	0.00	12.69
74	p	ethylbenzene	2.546	2.324	8.7	90	0.00	12.95
75	p	m,p-xylene	0.955	0.896	6.2	90	0.00	13.13
76	p	o-xylene	0.980	0.906	7.6	90	0.00	13.54
77	p	styrene	1.648	1.453	11.8	91	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	47.501	5.0	95	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	44.751	10.5	96	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	15.30
81	p	isopropylbenzene	2.903	2.529	12.9	90	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.992	-0.2	96	0.00	13.96
83	p	bromobenzene	0.802	0.687	14.3	90	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.631	10.9	86	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.740	8.0	92	0.00	13.69
86	p	n-propylbenzene	3.424	3.022	11.7	90	0.00	14.35
87	p	2-chlorotoluene	2.048	1.807	11.8	90	0.00	14.47
88	p	4-chlorotoluene	2.155	1.917	11.0	91	0.00	14.54
89	p	1,3,5-trimethylbenzene	2.281	2.119	7.1	89	0.00	14.64
90	p	tert-butylbenzene	1.390	1.254	9.8	89	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.167	5.3	89	0.00	15.04
92	p	sec-butylbenzene	2.957	2.713	8.3	90	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.224	9.9	89	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.299	7.5	89	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.324	10.6	90	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.168	5.3	90	0.00	15.70
97	p	n-butylbenzene	2.204	2.103	4.6	89	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.068	2.9	86	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.721	4.9	87	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	50.853	-1.7	88	0.00	17.55
101	p	hexachlorobutadiene	50.000	49.113	1.8	87	0.00	17.85
102	p	naphthalene	50.000	53.165	-6.3	87	0.00	17.82
103	p	1,2,3-trichlorobenzene	50.000	50.853	-1.7	88	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene	0.000	0.018#	0.0	0#	0.00	19.30
105	p	1-Methylnaphthalene	0.000	0.012#	0.0	0#	0.00	19.56

(#) = Out of Range SPCC's out = 5 CCC's out = 0
H75157.D H150925W.M Tue Oct 06 08:57:12 2015

6.7.4

6

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2509-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75379.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H151006\H75379.D          Vial: 3
Acq On    :  6 Oct 2015  10:26 am                   Operator: kaylap
Sample    : cc2500-50                               Inst    : MSH
Misc      : ms35362,msh2509,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	92	0.00	6.19
2	p	tertiary butyl alcohol	1.155	1.058	8.4	90	0.00	6.28
			Amount	Calc.	%Drift			
3	p	Ethanol	5000.000	3980.958	20.4#	89	-0.02	5.10
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	8.61
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	41.379	17.2	81	0.00	4.03
6	P	chloromethane	50.000	53.014	-6.0	102	0.00	4.27
7	p	vinyl chloride	50.000	56.072	-12.1	111	0.00	4.49
8	p	bromomethane	50.000	56.217	-12.4	104	0.00	4.96
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.318	0.368	-15.7	118	0.00	5.11
			Amount	Calc.	%Drift			
10	p	acetonitrile		----------NA----------				
11	p	trichlorofluoromethane	50.000	50.992	-2.0	103	0.00	5.70
			AvgRF	CCRF	%Dev			
12	p	freon-113	0.496	0.452	8.9	96	0.00	6.47
13	p	acrolein	0.022	0.057	-159.1#	246#	-0.02	5.69
14	p	1,1-dichloroethene	0.429	0.432	-0.7	103	0.00	6.27
15	p	acetone	0.053	0.059#	-11.3	115	0.00	5.83
16	p	ethyl ether	0.429	0.411	4.2	99	0.00	5.93
17	p	methyl acetate	0.488	0.507	-3.9	115	0.00	6.45
18	p	methylene chloride	0.543	0.527	2.9	104	0.00	6.45
19	p	methyl tert butyl ether	1.335	1.315	1.5	102	0.00	7.20
20	p	acrylonitrile	0.196	0.199	-1.5	98	-0.01	6.33
21	p	allyl chloride	0.887	0.863	2.7	103	0.00	6.51
22	p	trans-1,2-dichloroethene	0.478	0.470	1.7	104	0.00	7.11
23	p	iodomethane	0.769	0.735	4.4	101	0.00	6.36
24	p	carbon disulfide	1.570	1.416	9.8	96	0.00	6.69
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	46.274	7.5	102	-0.02	7.37
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2509-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75379.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	1.072	-13.8	116	0.00	7.45
27	p	chloroprene	0.827	0.769	7.0	96	0.00	7.72
28	p	di-isopropyl ether	1.763	1.753	0.6	101	0.00	7.76
29	p	methacrylonitrile	0.339	0.310	8.6	97	0.00	7.87
30	p	2-butanone	0.060	0.065#	-8.3	108	0.00	7.77
31	P	1,1-dichloroethane	0.979	0.912	6.8	100	0.00	7.36
32	p	tert-butyl ethyl ether	1.639	1.560	4.8	98	0.00	8.16
33	p	Hexane	0.899	0.843	6.2	96	0.00	7.74
		----------	Amount	Calc.	%Drift	----------		
34	p	isobutyl alcohol	250.000	353.203	-41.3#	138	0.00	8.16
		----------	AvgRF	CCRF	%Dev	----------		
35	p	2,2-dichloropropane	0.720	0.748	-3.9	110	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.508	3.4	102	0.00	7.92
		----------	Amount	Calc.	%Drift	----------		
37	p	ethyl acetate	50.000	70.590	-41.2#	138	0.00	8.16
		----------	AvgRF	CCRF	%Dev	----------		
38	p	bromochloromethane	0.257	0.246	4.3	102	0.00	8.09
39	p	chloroform	0.941	0.878	6.7	100	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.502	0.8	99	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.743	0.8	102	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	100	0.00	9.48
43	p	cyclohexane	0.593	0.542	8.6	96	0.00	9.16
44	p	carbon tetrachloride	0.392	0.404	-3.1	104	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.411	4.9	99	0.00	9.05
46	p	benzene	1.271	1.201	5.5	99	0.00	9.28
47	p	tetrahydrofuran	0.106	0.097	8.5	94	0.00	8.46
48	p	1,2-dichloroethane	0.474	0.435	8.2	98	0.00	8.78
49	p	tert-amyl methyl ether	0.864	0.814	5.8	95	0.00	9.40
50	p	heptane	0.448	0.458	-2.2	106	0.00	9.76
51	p	trichloroethene	0.333	0.328	1.5	101	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.335	5.1	101	0.00	9.86
53	p	dibromomethane	0.212	0.205	3.3	100	0.00	9.83
54	p	bromodichloromethane	0.424	0.402	5.2	96	0.00	9.95
55	p	methylcyclohexane	0.541	0.515	4.8	100	0.00	10.42
56	p	2-chloroethyl vinyl ether	0.228	0.229	-0.4	101	0.00	10.33
57	p	methyl methacrylate	0.221	0.215	2.7	100	0.00	10.06
		----------	Amount	Calc.	%Drift	----------		
58	p	1,4-dioxane	250.000	175.581	29.8#	79	0.00	10.06
		----------	AvgRF	CCRF	%Dev	----------		
59	p	cis-1,3-dichloropropene	0.473	0.480	-1.5	99	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.238	-2.1	102	0.00	11.28
61	p	4-methyl-2-pentanone	0.358	0.339	5.3	102	0.00	10.67
62	p	toluene	0.777	0.751	3.3	102	0.00	11.35
		----------	Amount	Calc.	%Drift	----------		
63	p	trans-1,3-dichloropropene	50.000	44.865	10.3	94	0.00	10.99
		----------	AvgRF	CCRF	%Dev	----------		
64	p	1,1,2-trichloroethane	0.258	0.246	4.7	100	0.00	11.16
65	p	ethyl methacrylate	0.423	0.416	1.7	102	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	12.73
67	p	tetrachloroethene	0.596	0.565	5.2	101	0.00	12.09

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2509-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75379.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.829	7.4	104	0.00	11.40
			Amount	Calc.	%Drift			
69	p	dibromochloromethane	50.000	41.391	17.2	102	0.00	11.69
			AvgRF	CCRF	%Dev			
70	p	1,2-dibromoethane	0.527	0.485	8.0	101	0.00	11.94
71	p	2-hexanone	0.433	0.415	4.2	103	0.00	11.53
72	P	chlorobenzene	1.587	1.389	12.5	99	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.468	4.7	103	0.00	12.69
74	p	ethylbenzene	2.546	2.430	4.6	102	0.00	12.95
75	p	m,p-xylene	0.955	0.940	1.6	102	0.00	13.13
76	p	o-xylene	0.980	0.904	7.8	97	0.00	13.55
77	p	styrene	1.648	1.485	9.9	101	0.00	13.47
			Amount	Calc.	%Drift			
78	P	bromoform	50.000	47.573	4.9	103	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	45.969	8.1	107	0.00	13.70
			AvgRF	CCRF	%Dev			
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	15.30
81	p	isopropylbenzene	2.903	2.619	9.8	99	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.979	1.1	102	0.00	13.96
83	p	bromobenzene	0.802	0.713	11.1	100	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.662	6.5	97	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.758	5.7	101	0.00	13.70
86	p	n-propylbenzene	3.424	3.038	11.3	96	0.00	14.36
87	p	2-chlorotoluene	2.048	1.800	12.1	96	0.00	14.47
88	p	4-chlorotoluene	2.155	1.924	10.7	98	0.00	14.55
89	p	1,3,5-trimethylbenzene	2.281	2.274	0.3	102	0.00	14.64
90	p	tert-butylbenzene	1.390	1.279	8.0	97	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.197	4.0	97	0.00	15.05
92	p	sec-butylbenzene	2.957	2.774	6.2	98	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.237	8.9	96	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.354	5.3	97	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.332	10.1	96	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.158	6.1	96	0.00	15.69
97	p	n-butylbenzene	2.204	2.207	-0.1	100	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.071	-1.4	96	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.704	7.1	91	0.00	16.99
			Amount	Calc.	%Drift			
100	p	1,2,4-trichlorobenzene	50.000	54.010	-8.0	99	0.00	17.55
101	p	hexachlorobutadiene	50.000	54.928	-9.9	102	0.00	17.85
102	p	naphthalene	50.000	52.004	-4.0	92	0.00	17.83
103	p	1,2,3-trichlorobenzene	50.000	54.010	-8.0	99	0.00	17.55
			AvgRF	CCRF	%Dev			
104	p	2-Methylnaphthalene	0.000	0.020#	0.0	0#	0.00	19.30
105	p	1-Methylnaphthalene	0.000	0.013#	0.0	0#	0.00	19.55

(#) = Out of Range SPCC's out = 4 CCC's out = 0
H75157.D H150925W.M Tue Oct 06 10:48:54 2015

6.7.5

6

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2509-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75405A.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H151006\H75405A.D          Vial: 16
Acq On    :  6 Oct 2015  10:12 pm                     Operator: kaylap
Sample    : ecc2500-50                                Inst    : MSH
Misc      : ms35373,msh2509,,,,5,1                    Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	76	0.00	6.19
2	p	tertiary butyl alcohol	1.155	1.065	7.8	76	0.00	6.28
			Amount	Calc.	%Drift			
3	p	Ethanol	5000.000	4698.623	6.0	88	-0.02	5.10
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	80	0.00	8.61
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	57.333	-14.7	89	0.00	4.02
6	P	chloromethane	50.000	58.649	-17.3	89	0.00	4.26
7	p	vinyl chloride	50.000	54.827	-9.7	87	0.00	4.50
8	p	bromomethane	50.000	54.472	-8.9	80	0.00	4.95
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.318	0.319	-0.3	81	0.00	5.11
			Amount	Calc.	%Drift			
10	p	acetonitrile		----------NA----------				
11	p	trichlorofluoromethane	50.000	49.051	1.9	79	0.00	5.69
			AvgRF	CCRF	%Dev			
12	p	freon-113	0.496	0.457	7.9	77	0.00	6.46
13	p	acrolein	0.022	0.030#	-36.4#	104	0.00	5.70
14	p	1,1-dichloroethene	0.429	0.398	7.2	76	0.00	6.27
15	p	acetone	0.053	0.059#	-11.3	91	0.00	5.83
16	p	ethyl ether	0.429	0.400	6.8	77	0.00	5.93
17	p	methyl acetate	0.488	0.460	5.7	83	0.00	6.45
18	p	methylene chloride	0.543	0.510	6.1	80	0.00	6.45
19	p	methyl tert butyl ether	1.335	1.246	6.7	77	0.00	7.20
20	p	acrylonitrile	0.196	0.198	-1.0	78	0.00	6.33
21	p	allyl chloride	0.887	0.824	7.1	79	0.00	6.51
22	p	trans-1,2-dichloroethene	0.478	0.439	8.2	77	0.00	7.11
23	p	iodomethane	0.769	0.679	11.7	74	0.00	6.36
24	p	carbon disulfide	1.570	1.417	9.7	76	0.00	6.69
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	45.015	10.0	79	-0.02	7.37
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2509-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75405A.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	0.652	30.8#	56	0.00	7.46
27	p	chloroprene	0.827	0.778	5.9	77	0.00	7.72
28	p	di-isopropyl ether	1.763	1.738	1.4	80	0.00	7.76
29	p	methacrylonitrile	0.339	0.312	8.0	78	0.00	7.87
30	p	2-butanone	0.060	0.061#	-1.7	80	-0.01	7.76
31	P	1,1-dichloroethane	0.979	0.923	5.7	80	0.00	7.35
32	p	tert-butyl ethyl ether	1.639	1.573	4.0	78	0.00	8.16
33	p	Hexane	0.899	0.823	8.5	75	0.00	7.74
		----------	Amount	Calc.	%Drift	----------		
34	p	isobutyl alcohol	250.000	255.642	-2.3	81	0.00	8.16
		----------	AvgRF	CCRF	%Dev	----------		
35	p	2,2-dichloropropane	0.720	0.638	11.4	74	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.500	4.9	80	0.00	7.92
		----------	Amount	Calc.	%Drift	----------		
37	p	ethyl acetate	50.000	53.618	-7.2	85	0.00	8.16
		----------	AvgRF	CCRF	%Dev	----------		
38	p	bromochloromethane	0.257	0.237	7.8	78	0.00	8.09
39	p	chloroform	0.941	0.899	4.5	82	0.00	8.12
40	S	dibromofluoromethane (s)	0.506	0.534	-5.5	84	0.00	8.24
41	p	1,1,1-trichloroethane	0.749	0.732	2.3	80	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	82	0.00	9.48
43	p	cyclohexane	0.593	0.519	12.5	75	0.00	9.16
44	p	carbon tetrachloride	0.392	0.391	0.3	82	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.378	12.5	75	0.00	9.05
46	p	benzene	1.271	1.140	10.3	77	0.00	9.27
47	p	tetrahydrofuran	0.106	0.091	14.2	72	0.00	8.46
48	p	1,2-dichloroethane	0.474	0.435	8.2	80	0.00	8.77
49	p	tert-amyl methyl ether	0.864	0.802	7.2	77	0.00	9.40
50	p	heptane	0.448	0.364	18.8	69	0.00	9.76
51	p	trichloroethene	0.333	0.322	3.3	81	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.324	8.2	80	0.00	9.86
53	p	dibromomethane	0.212	0.199	6.1	80	0.00	9.84
54	p	bromodichloromethane	0.424	0.426	-0.5	84	0.00	9.95
55	p	methylcyclohexane	0.541	0.467	13.7	74	0.00	10.42
56	p	2-chloroethyl vinyl ether	0.228	0.212	7.0	76	0.00	10.33
57	p	methyl methacrylate	0.221	0.203	8.1	78	0.00	10.06
		----------	Amount	Calc.	%Drift	----------		
58	p	1,4-dioxane	250.000	210.275	15.9	80	0.00	10.07
		----------	AvgRF	CCRF	%Dev	----------		
59	p	cis-1,3-dichloropropene	0.473	0.487	-3.0	83	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.292	-6.5	87	0.00	11.28
61	p	4-methyl-2-pentanone	0.358	0.327	8.7	81	0.00	10.67
62	p	toluene	0.777	0.729	6.2	81	0.00	11.35
		----------	Amount	Calc.	%Drift	----------		
63	p	trans-1,3-dichloropropene	50.000	47.637	4.7	82	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
64	p	1,1,2-trichloroethane	0.258	0.246	4.7	82	0.00	11.16
65	p	ethyl methacrylate	0.423	0.394	6.9	79	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	88	0.00	12.73
67	p	tetrachloroethene	0.596	0.512	14.1	79	0.00	12.09

Continuing Calibration Summary

Job Number: MC41696 **Sample:** MSH2509-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75405A.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.769	14.1	82	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	40.821	18.4	86	0.00	11.69
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.448	15.0	80	0.00	11.94
71	p	2-hexanone	0.433	0.377	12.9	80	-0.01	11.53
72	P	chlorobenzene	1.587	1.318	17.0	81	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.448	8.8	84	0.00	12.69
74	p	ethylbenzene	2.546	2.224	12.6	80	0.00	12.95
75	p	m,p-xylene	0.955	0.857	10.3	80	0.00	13.13
76	p	o-xylene	0.980	0.870	11.2	80	0.00	13.55
77	p	styrene	1.648	1.362	17.4	79	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	45.016	10.0	83	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	42.518	15.0	84	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	15.30
81	p	isopropylbenzene	2.903	2.420	16.6	79	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.970	2.0	87	0.00	13.96
83	p	bromobenzene	0.802	0.653	18.6	79	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.588	16.9	74	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.702	12.7	81	0.00	13.70
86	p	n-propylbenzene	3.424	2.838	17.1	78	0.00	14.36
87	p	2-chlorotoluene	2.048	1.725	15.8	80	0.00	14.47
88	p	4-chlorotoluene	2.155	1.819	15.6	80	0.00	14.54
89	p	1,3,5-trimethylbenzene	2.281	2.010	11.9	78	0.00	14.64
90	p	tert-butylbenzene	1.390	1.195	14.0	79	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.052	10.4	78	0.00	15.04
92	p	sec-butylbenzene	2.957	2.541	14.1	77	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.179	13.2	79	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.136	14.1	76	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.271	14.2	79	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.123	8.9	80	0.00	15.70
97	p	n-butylbenzene	2.204	1.967	10.8	77	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.069	1.4	81	0.00	16.17
99	p	1,3,5-trichlorobenzene	0.758	0.674	11.1	75	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	47.191	5.6	76	0.00	17.55
101	p	hexachlorobutadiene	50.000	44.831	10.3	75	0.00	17.85
102	p	naphthalene	50.000	49.180	1.6	75	0.00	17.83
103	p	1,2,3-trichlorobenzene	50.000	47.191	5.6	76	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene	0.000	0.012#	0.0	0#	0.00	19.30
105	p	1-Methylnaphthalene	0.000	0.012#	0.0	0#	-0.26	19.30

(#) = Out of Range SPCC's out = 5 CCC's out = 0
H75157.D H150925W.M Wed Oct 07 09:22:34 2015

New England ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75335.D
Acq On : 5 Oct 2015 2:45 pm
Operator : kaylap
Sample : mc41696-1
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 05 15:20:47 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

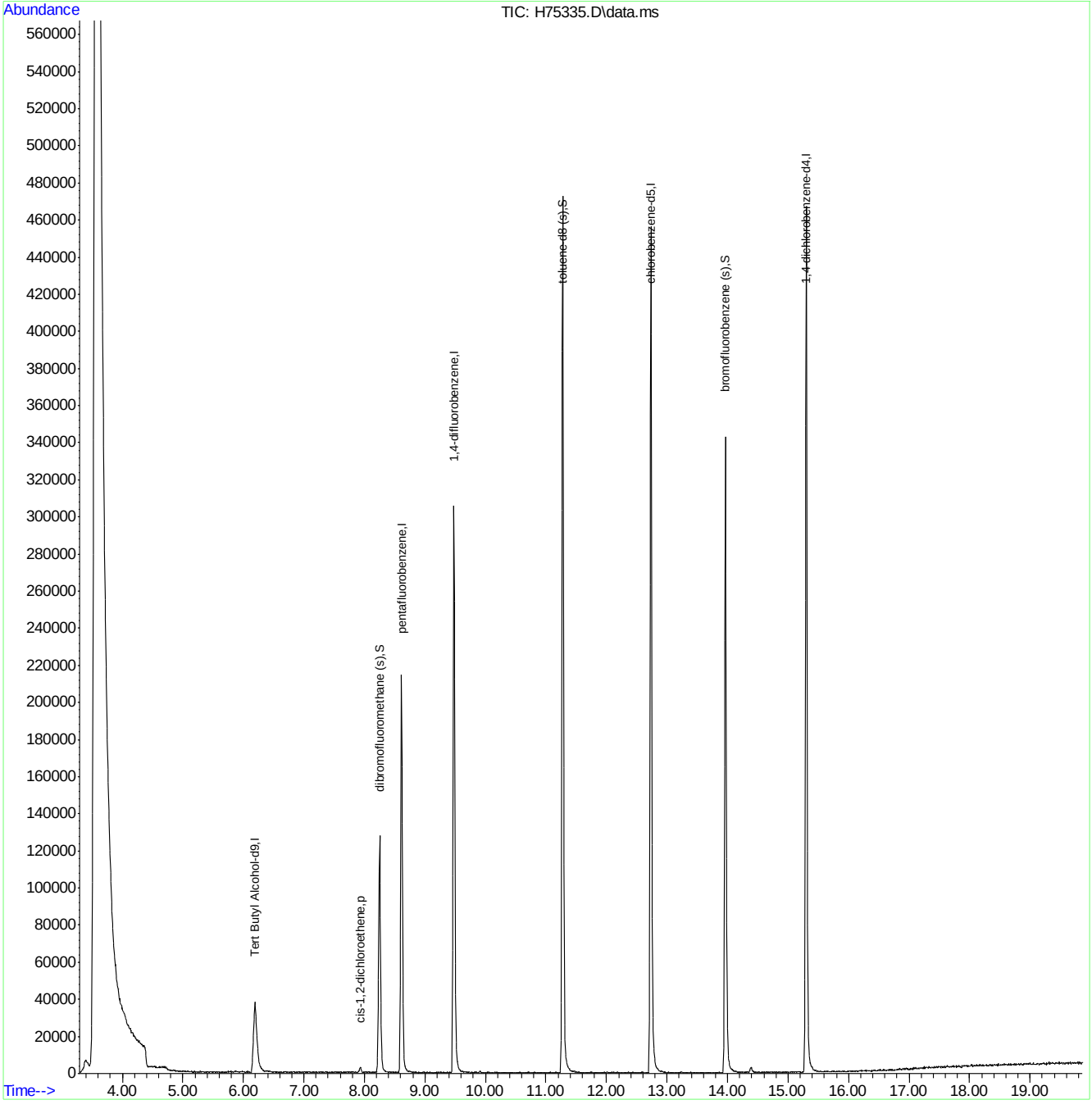
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	72685	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	162107	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	254889	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	155293	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	134298	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	87424	53.33	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.66%			
60) toluene-d8 (s)	11.276	98	321737	52.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.08%			
82) bromofluorobenzene (s)	13.965	95	129976	48.86	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.72%			
Target Compounds						Qvalue
36) cis-1,2-dichloroethene	7.927	96	1496	0.88	ug/L	94

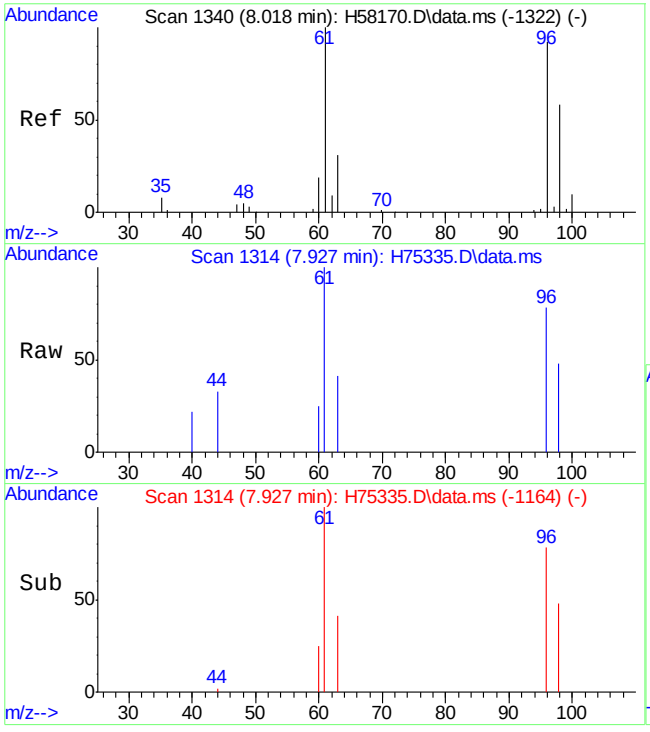
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75335.D
Acq On : 5 Oct 2015 2:45 pm
Operator : kaylap
Sample : mc41696-1
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 05 15:20:47 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

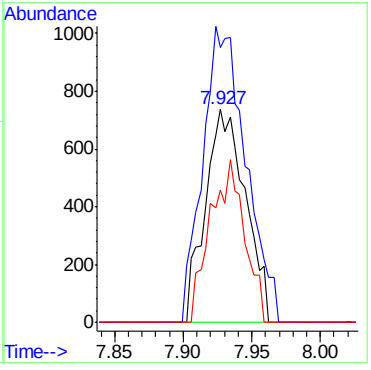




#36
cis-1,2-dichloroethene
Concen: 0.88 ug/L
RT: 7.927 min Scan# 1314
Delta R.T. 0.001 min
Lab File: H75335.D
Acq: 5 Oct 15 2:45 pm

Tgt Ion: 96 Resp: 1496

Ion	Ratio	Lower	Upper
96	100		
61	128.7	90.6	150.6
98	62.1	35.0	95.0



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75336.D
Acq On : 5 Oct 2015 3:12 pm
Operator : kaylap
Sample : mc41696-2
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 05 15:47:22 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.190	65	69047	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	153345	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	246643	50.00	ug/L	0.00
66) chlorobenzene-d5	12.732	82	142778	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.301	152	128151	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	83253	53.69	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.38%			
60) toluene-d8 (s)	11.275	98	288343	48.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.38%			
82) bromofluorobenzene (s)	13.964	95	121505	47.87	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.74%			
Target Compounds						Qvalue
36) cis-1,2-dichloroethene	7.933	96	1617	1.00	ug/L	93

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

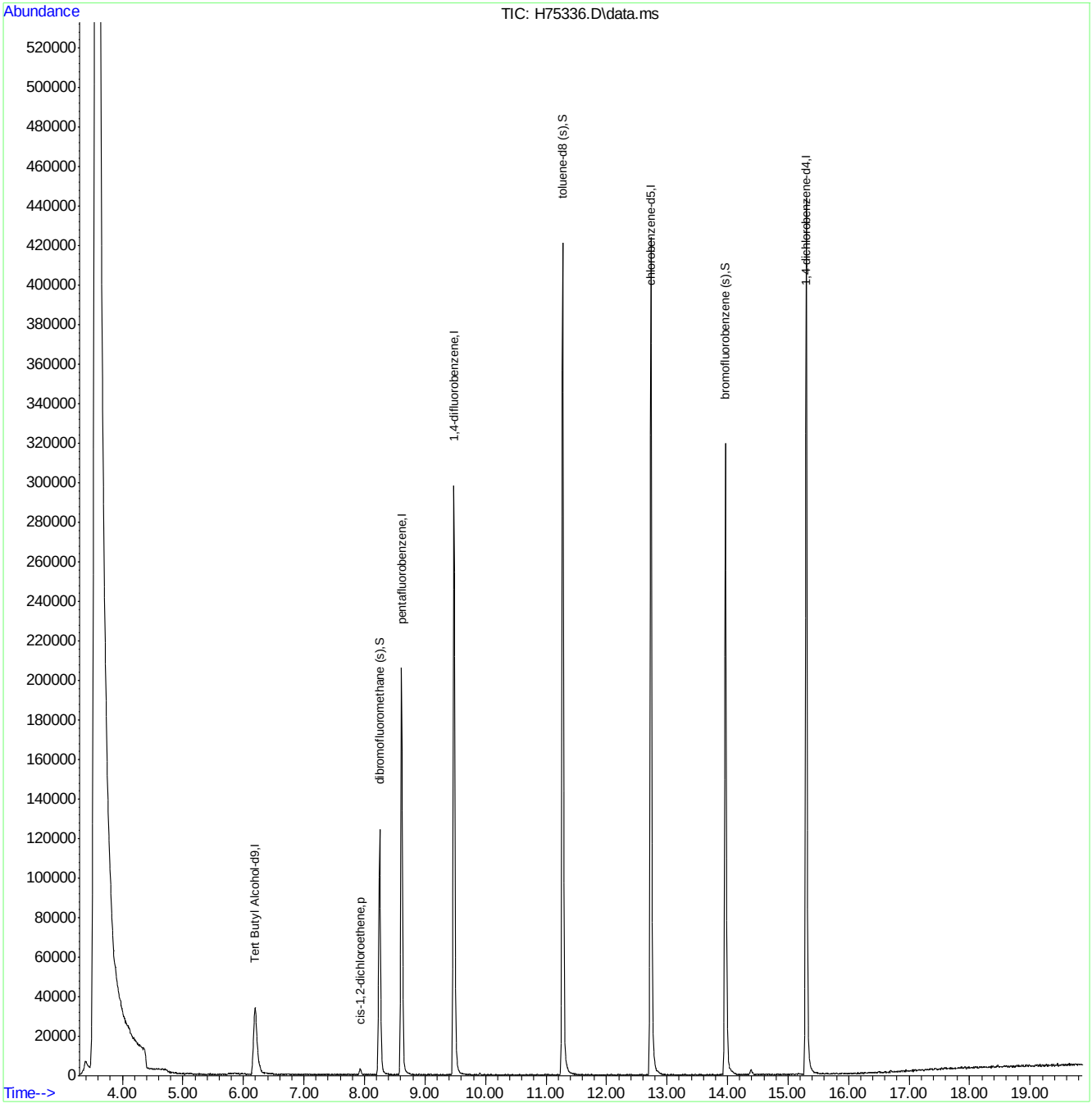
7.1.2

7

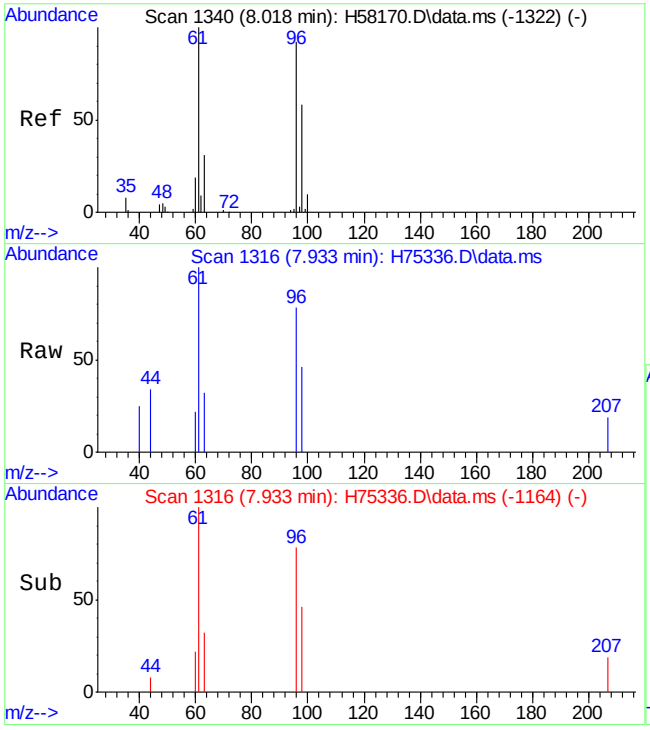
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75336.D
Acq On : 5 Oct 2015 3:12 pm
Operator : kaylap
Sample : mc41696-2
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 05 15:47:22 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



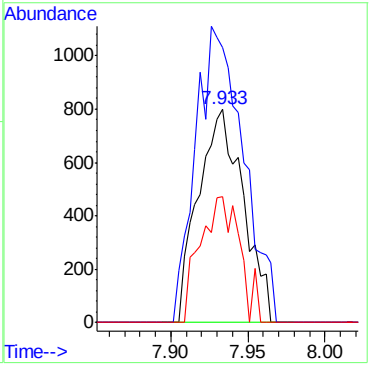
H150925W.M Mon Oct 05 15:47:30 2015



#36
cis-1,2-dichloroethene
Concen: 1.00 ug/L
RT: 7.933 min Scan# 1316
Delta R.T. 0.007 min
Lab File: H75336.D
Acq: 5 Oct 15 3:12 pm

Tgt Ion: 96 Resp: 1617

Ion	Ratio	Lower	Upper
96	100		
61	128.8	90.6	150.6
98	59.1	35.0	95.0



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75386.D
Acq On : 6 Oct 2015 1:34 pm
Operator : kaylap
Sample : mc41696-3
Misc : ms35361,msh2509,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 15:13:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	65861	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	157138	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	249306	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	145745	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	126999	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.252	113	83160	52.33	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.66%			
60) toluene-d8 (s)	11.276	98	299742	49.56	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.12%			
82) bromofluorobenzene (s)	13.965	95	119208	47.39	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.78%			

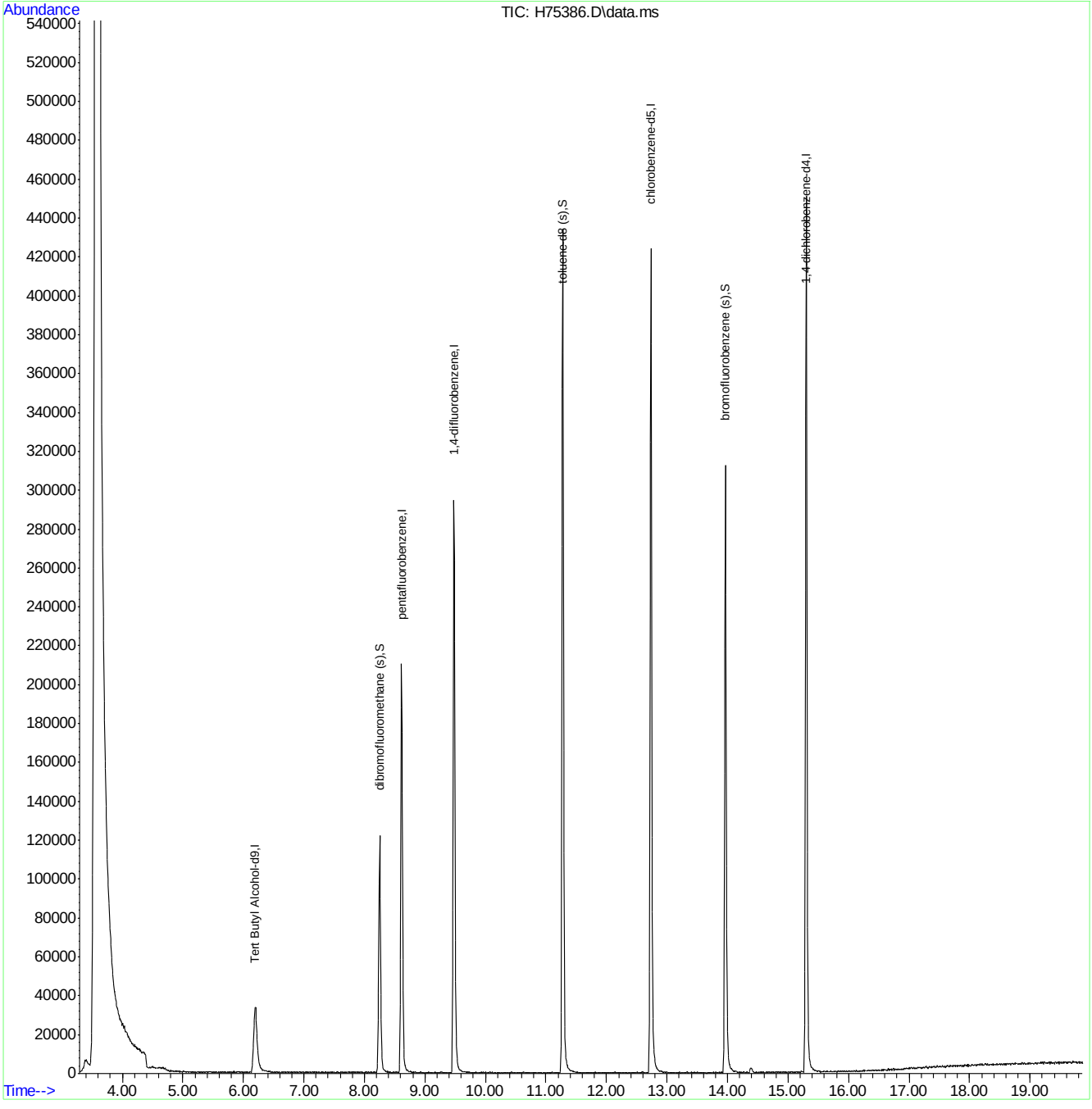
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75386.D
Acq On : 6 Oct 2015 1:34 pm
Operator : kaylap
Sample : mc41696-3
Misc : ms35361,msh2509,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 15:13:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75338.D
Acq On : 5 Oct 2015 4:15 pm
Operator : kaylap
Sample : mc41696-4
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 06 08:08:21 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.196	65	73394	500.00	ug/L	0.00
4) pentafluorobenzene	8.613	168	158192	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.477	114	258563	50.00	ug/L	0.00
66) chlorobenzene-d5	12.731	82	133591	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	130447	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	85668	53.55	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.10%			
60) toluene-d8 (s)	11.274	98	289128	46.10	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.20%			
82) bromofluorobenzene (s)	13.963	95	119948	46.42	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.84%			

Target Compounds Qvalue

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

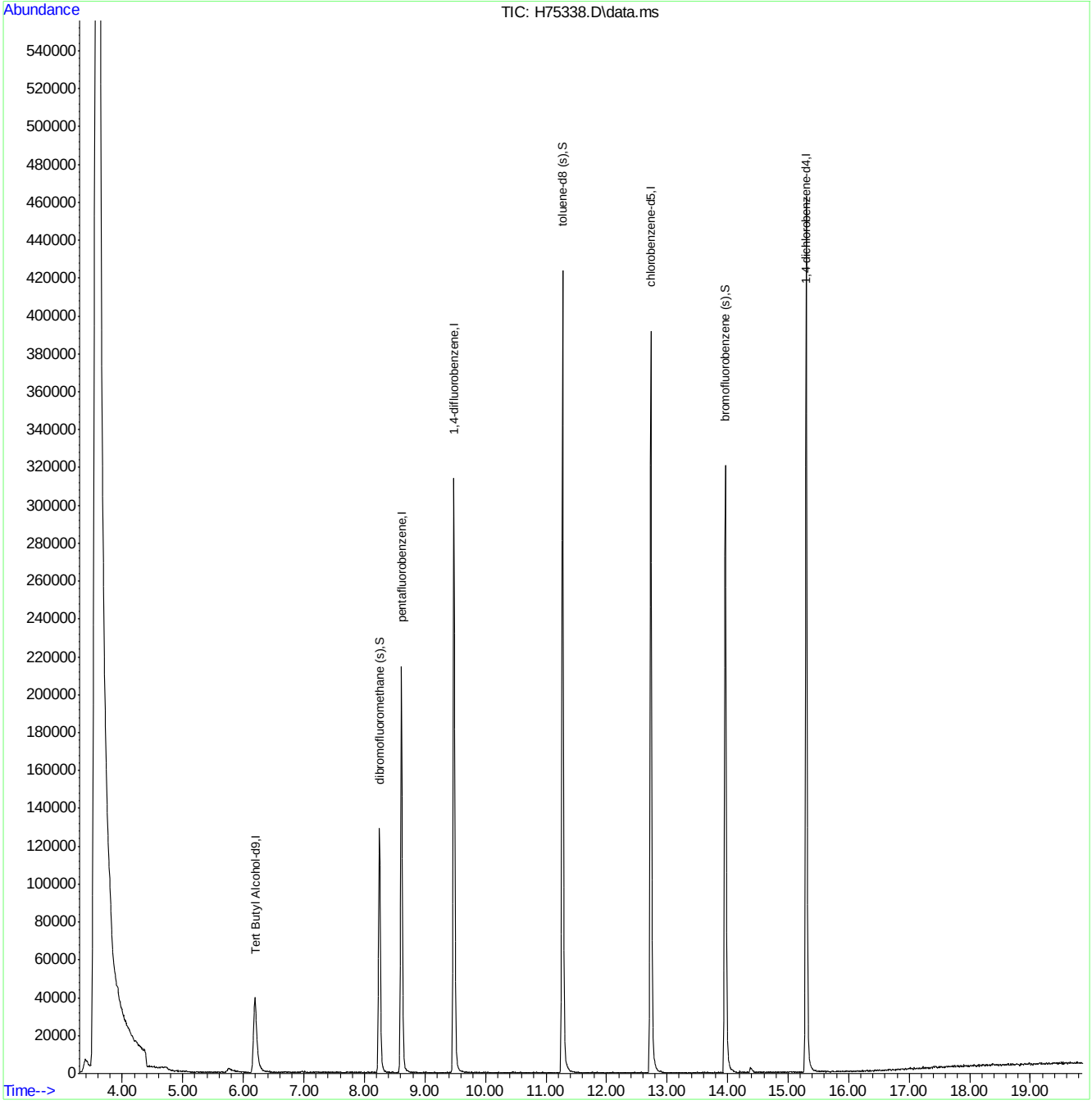
7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75338.D
Acq On : 5 Oct 2015 4:15 pm
Operator : kaylap
Sample : mc41696-4
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 06 08:08:21 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



H150925W.M Tue Oct 06 08:08:26 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75387.D
Acq On : 6 Oct 2015 2:00 pm
Operator : kaylap
Sample : mc41696-5
Misc : ms35361,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 15:13:40 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

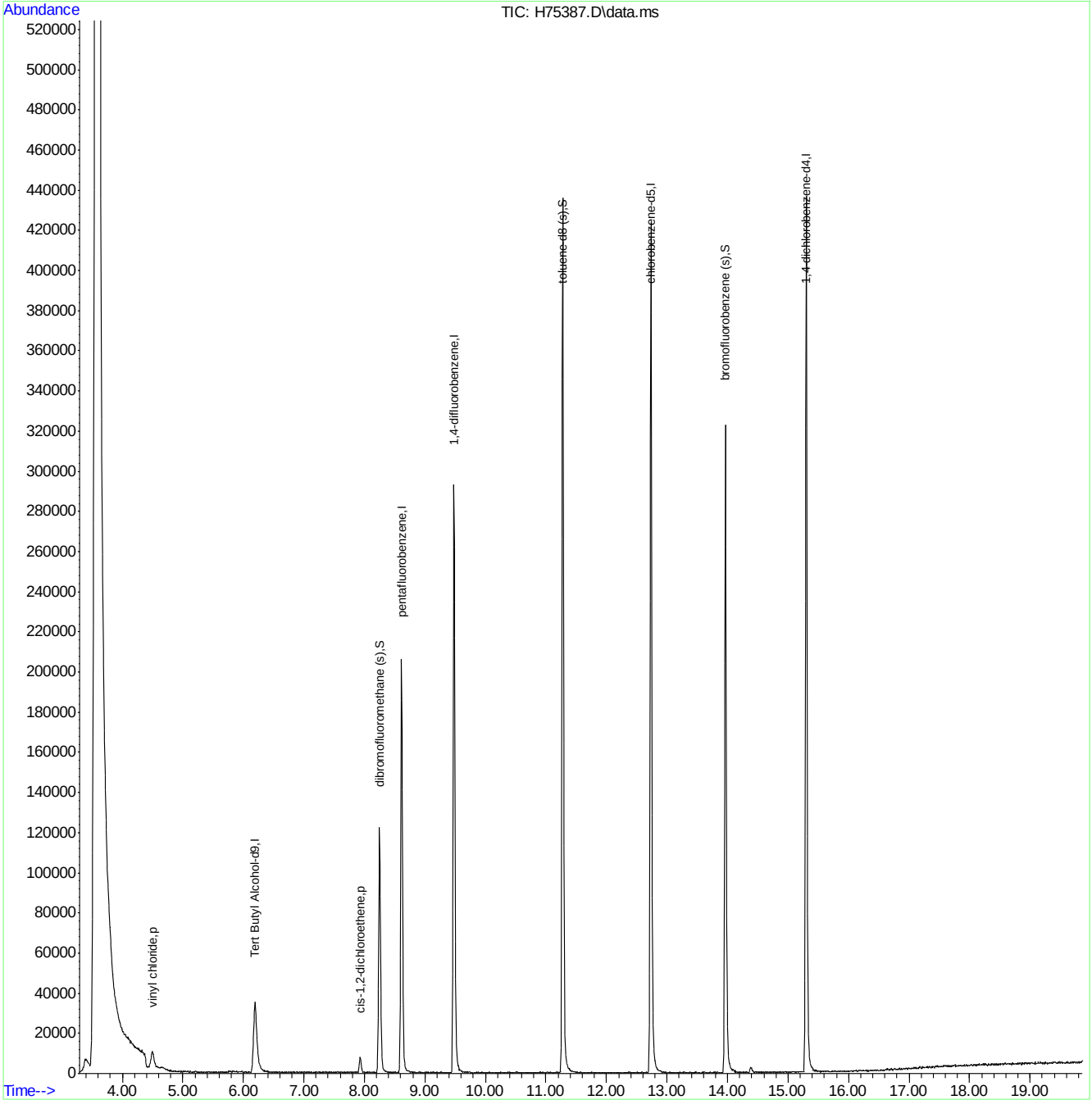
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	66261	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	154068	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.483	114	245773	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	145929	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	125189	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.252	113	82488	52.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.90%			
60) toluene-d8 (s)	11.276	98	295788	49.61	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.22%			
82) bromofluorobenzene (s)	13.965	95	120207	48.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.94%			
Target Compounds						Qvalue
7) vinyl chloride	4.497	62	17521	10.77	ug/L	94
36) cis-1,2-dichloroethene	7.927	96	4122	2.54	ug/L	86

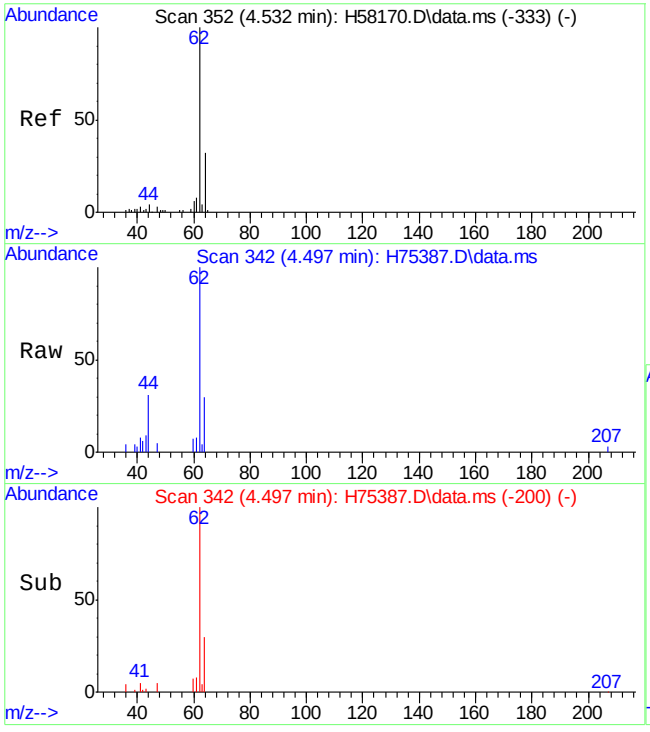
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75387.D
Acq On : 6 Oct 2015 2:00 pm
Operator : kaylap
Sample : mc41696-5
Misc : ms35361,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 15:13:40 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

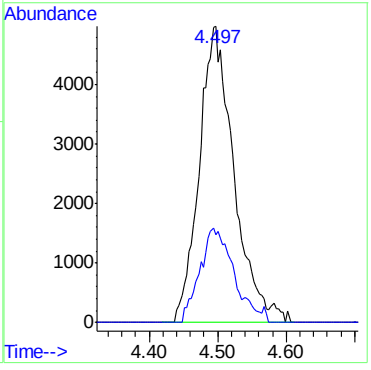


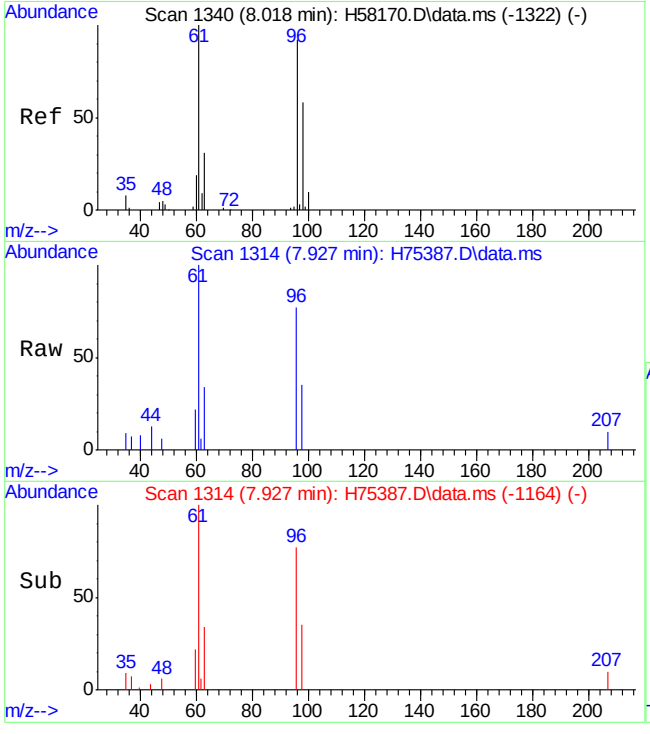


#7
vinyl chloride
Concen: 10.77 ug/L
RT: 4.497 min Scan# 342
Delta R.T. 0.001 min
Lab File: H75387.D
Acq: 6 Oct 15 2:00 pm

Tgt Ion: 62 Resp: 17521

Ion	Ratio	Lower	Upper
62	100		
64	29.7	3.2	63.2

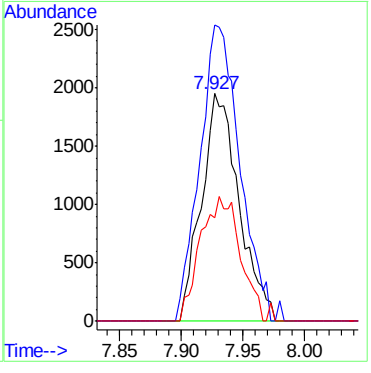




#36
cis-1,2-dichloroethene
Concen: 2.54 ug/L
RT: 7.927 min Scan# 1314
Delta R.T. 0.001 min
Lab File: H75387.D
Acq: 6 Oct 15 2:00 pm

Tgt Ion: 96 Resp: 4122

Ion	Ratio	Lower	Upper
96	100		
61	130.2	90.6	150.6
98	45.6	35.0	95.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75332.D
Acq On : 5 Oct 2015 1:25 pm
Operator : kaylap
Sample : mc41696-6
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 05 14:03:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.193	65	69845	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	161833	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	258823	50.00	ug/L	0.00
66) chlorobenzene-d5	12.732	82	147718	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	133513	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	83980	51.32	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.64%			
60) toluene-d8 (s)	11.275	98	309618	49.31	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.62%			
82) bromofluorobenzene (s)	13.964	95	126005	47.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.28%			

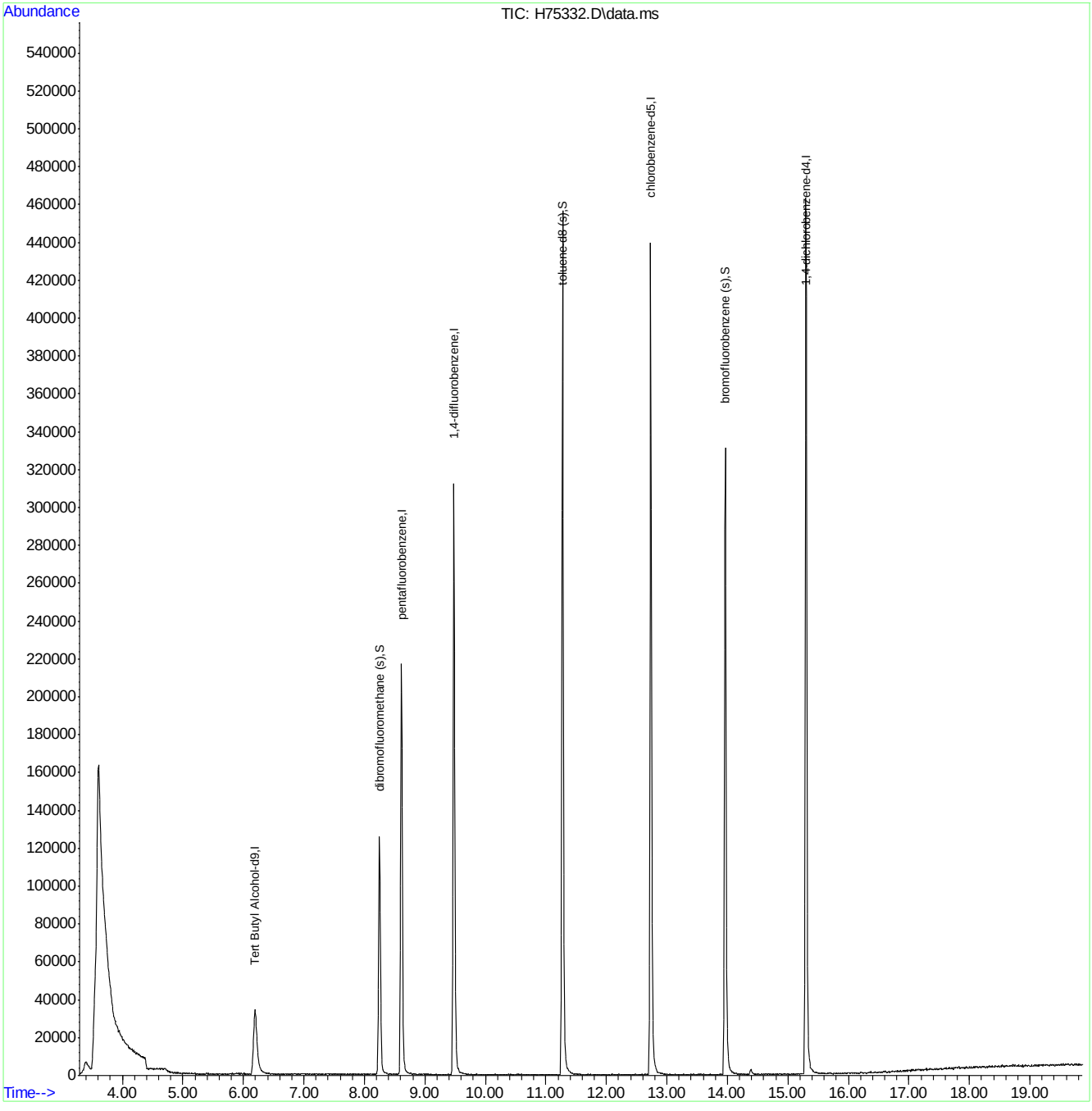
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75332.D
Acq On : 5 Oct 2015 1:25 pm
Operator : kaylap
Sample : mc41696-6
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 05 14:03:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75333.D
Acq On : 5 Oct 2015 1:52 pm
Operator : kaylap
Sample : mc41696-7
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 14:13:33 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	68999	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	159236	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.476	114	251579	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	143662	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	130930	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	84321	52.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.74%			
60) toluene-d8 (s)	11.272	98	288623	47.29	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.58%			
82) bromofluorobenzene (s)	13.961	95	126022	48.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.18%			

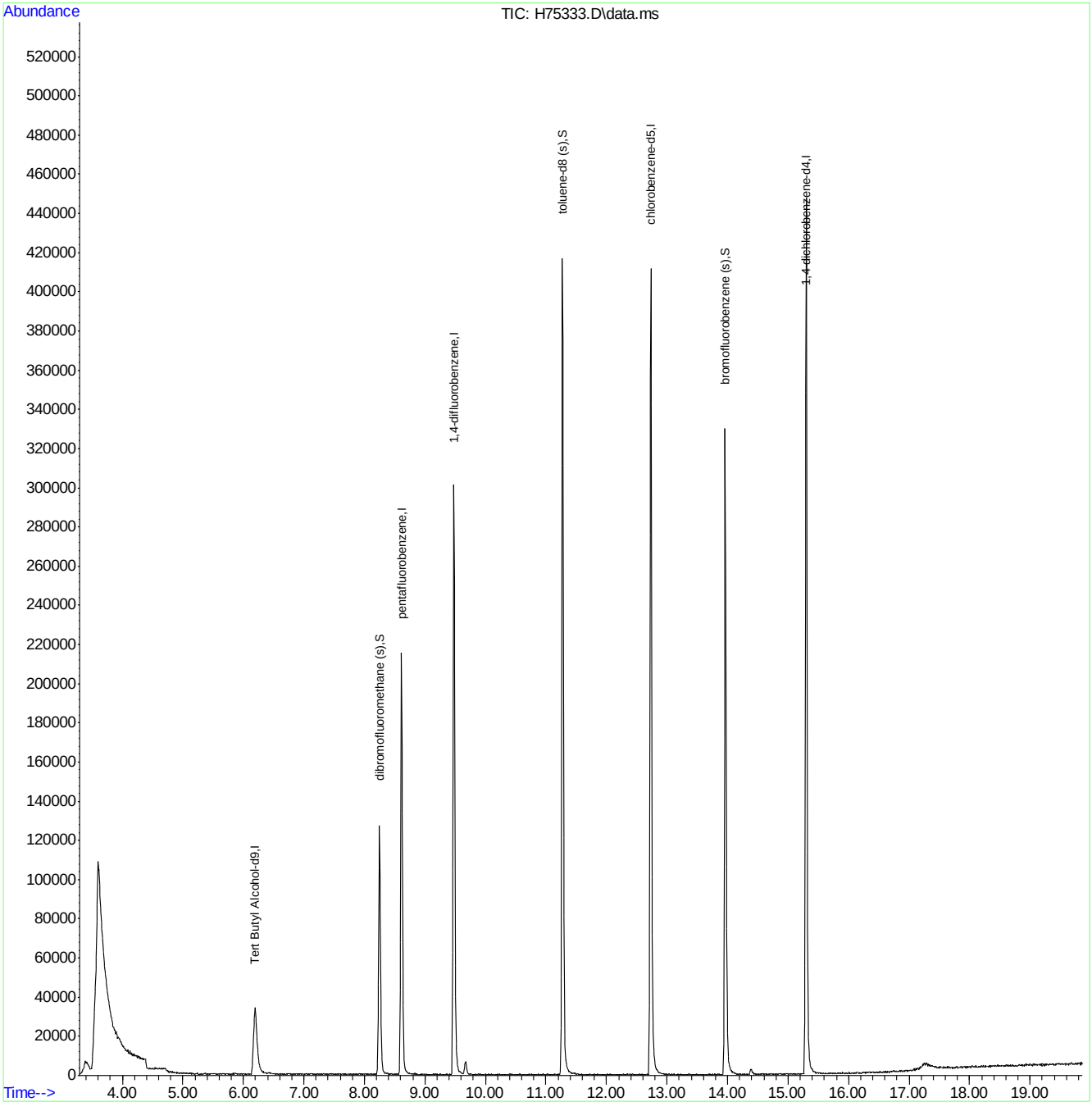
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75333.D
Acq On : 5 Oct 2015 1:52 pm
Operator : kaylap
Sample : mc41696-7
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 05 14:13:33 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



H150925W.M Mon Oct 05 14:13:40 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75329.D
Acq On : 5 Oct 2015 12:06 pm
Operator : kaylap
Sample : mb
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 05 14:02:00 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	78272	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	176737	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	276956	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	163061	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	144374	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	87480	48.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.90%			
60) toluene-d8 (s)	11.276	98	349392	52.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.02%			
82) bromofluorobenzene (s)	13.965	95	135189	47.27	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.54%			

Target Compounds Qvalue

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

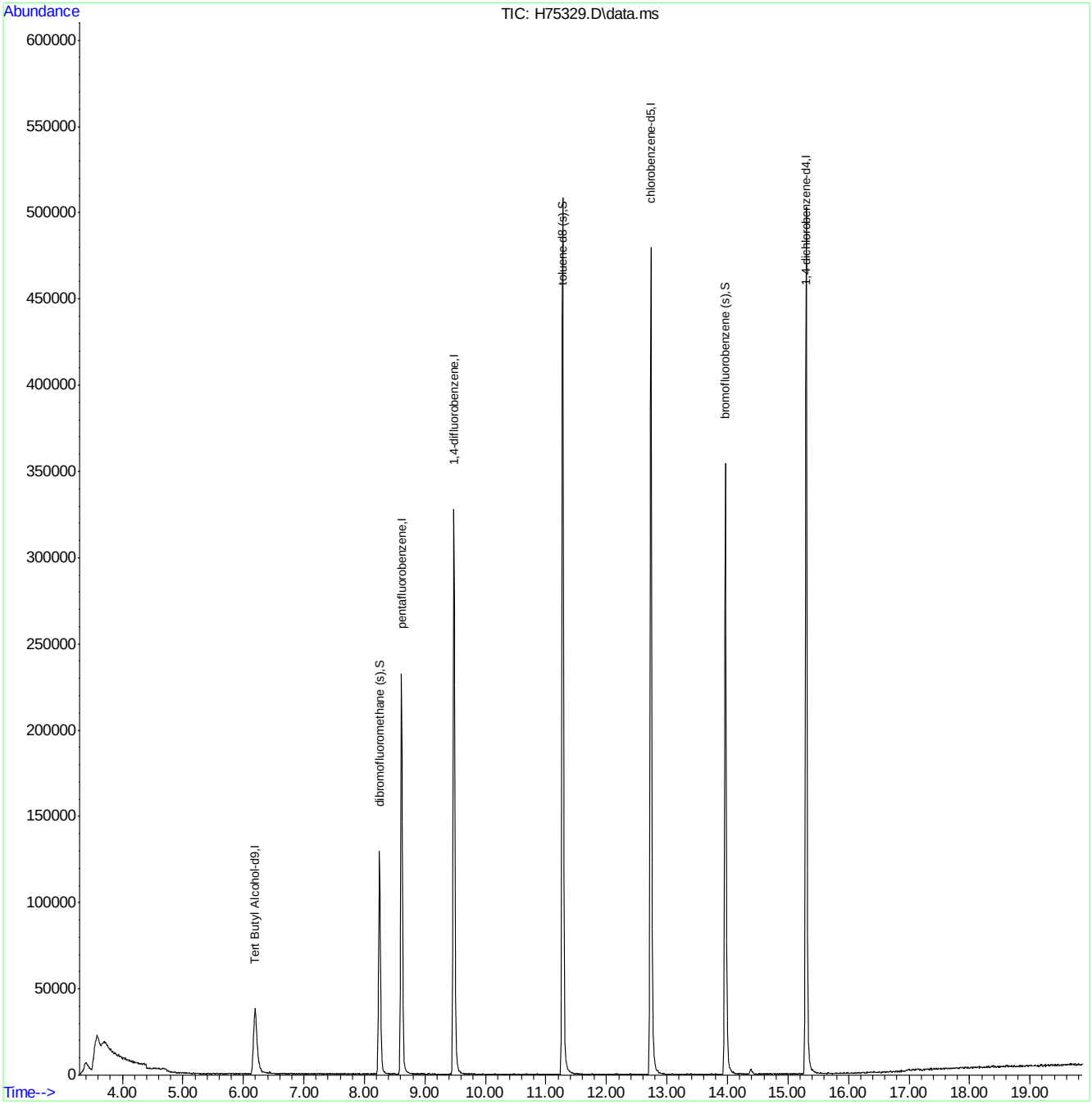
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75329.D
Acq On : 5 Oct 2015 12:06 pm
Operator : kaylap
Sample : mb
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 05 14:02:00 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



H150925W.M Mon Oct 05 14:02:06 2015

ACCUTEST LABORATORIES MC41696

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75381.D
Acq On : 6 Oct 2015 11:19 am
Operator : kaylap
Sample : mb
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 12:41:30 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	77292	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	183392	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	286524	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	165290	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	146903	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	92629	49.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.90%			
60) toluene-d8 (s)	11.275	98	356345	51.27	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.54%			
82) bromofluorobenzene (s)	13.961	95	137853	47.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%			

Target Compounds Qvalue

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

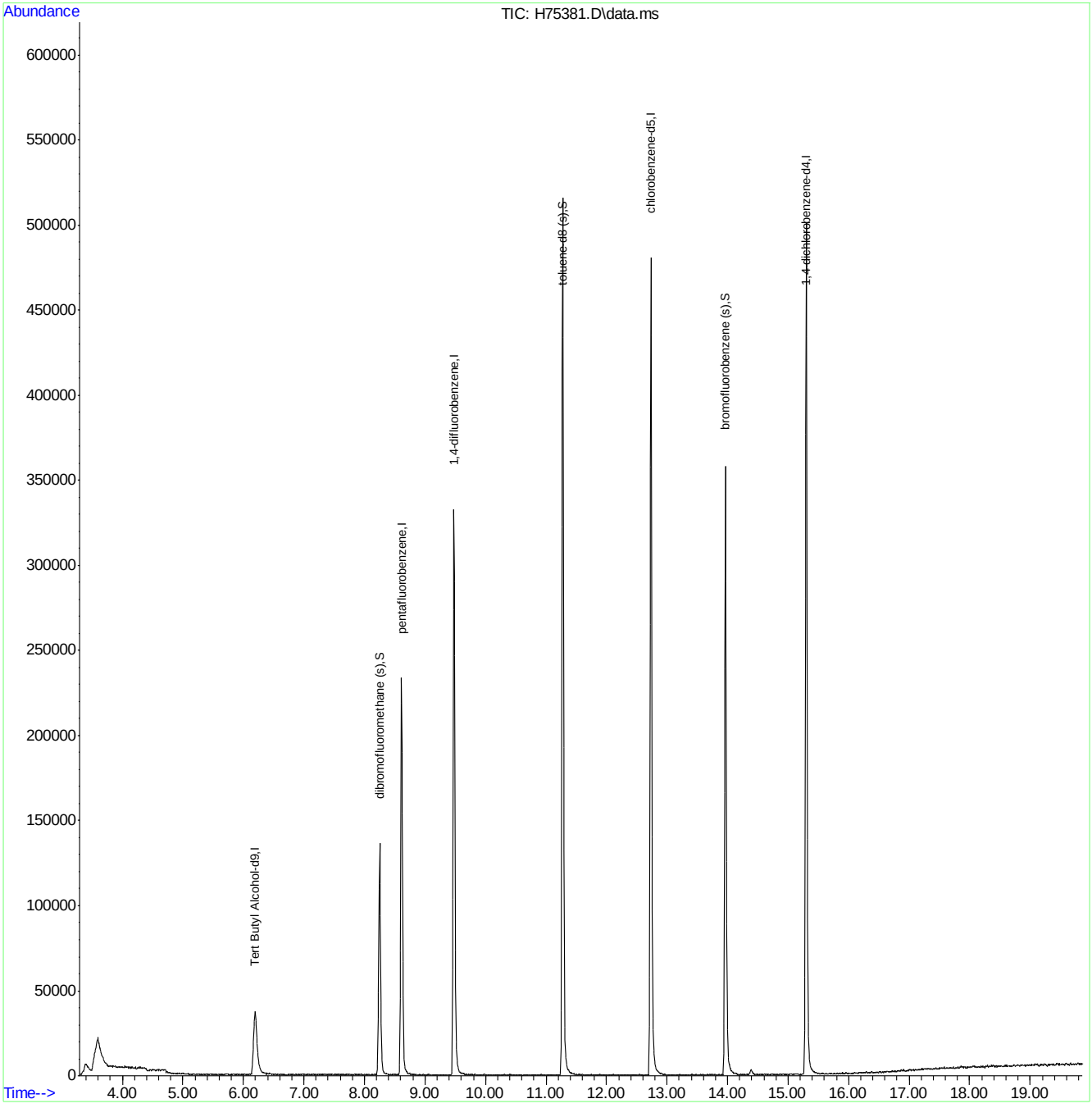
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75381.D
Acq On : 6 Oct 2015 11:19 am
Operator : kaylap
Sample : mb
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 06 12:41:30 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



H150925W.M Tue Oct 06 12:41:34 2015 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/05/15 17:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75326.D
Acq On : 5 Oct 2015 10:46 am
Operator : kaylap
Sample : bs
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 11:07:48 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.193	65	83006	500.00	ug/L		0.00
4) pentafluorobenzene	8.611	168	187534	50.00	ug/L		0.00
42) 1,4-difluorobenzene	9.479	114	296903	50.00	ug/L		0.00
66) chlorobenzene-d5	12.732	82	183299	50.00	ug/L		0.00
80) 1,4-dichlorobenzene-d4	15.298	152	164071	50.00	ug/L		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.247	113	94117	49.63	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.26%				
60) toluene-d8 (s)	11.275	98	365768	50.79	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.58%				
82) bromofluorobenzene (s)	13.960	95	160804	49.48	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.96%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.271	59	90401	471.57	ug/L		95
3) Ethanol	5.103	45	120991	4794.80	ug/L		100
5) dichlorodifluoromethane	4.023	85	37285	18.27	ug/L		99
6) chloromethane	4.274	50	73139	41.04	ug/L		95
7) vinyl chloride	4.493	62	76973	39.14	ug/L		95
8) bromomethane	4.955	96	48222	41.31	ug/L		99
9) chloroethane	5.107	64	54855	45.94	ug/L		94
11) trichlorofluoromethane	5.692	101	113439	38.74	ug/L		100
12) freon-113	6.458	101	81720	43.95	ug/L		90
13) acrolein	5.692	56	43090	512.24	ug/L		100
14) 1,1-dichloroethene	6.271	96	79083	49.10	ug/L	#	74
15) acetone	5.823	58	10889m	54.60	ug/L		
16) ethyl ether	5.929	59	80766	50.23	ug/L		87
18) methylene chloride	6.451	84	103688	50.89	ug/L	#	75
19) methyl tert butyl ether	7.199	73	262155	52.36	ug/L		89
20) acrylonitrile	6.331	53	40678	55.23	ug/L		95
21) allyl chloride	6.511	41	164131m	49.35	ug/L		
22) trans-1,2-dichloroethene	7.104	96	87110	48.54	ug/L	#	82
23) iodomethane	6.359	142	134145	46.51	ug/L		88
24) carbon disulfide	6.691	76	263123	44.69	ug/L		99
25) propionitrile	7.369	54	13853	51.44	ug/L		100
26) vinyl acetate	7.457	43	191333	54.16	ug/L		94
27) chloroprene	7.718	53	140063	45.17	ug/L		99
28) di-isopropyl ether	7.760	45	348309	52.69	ug/L		90
29) methacrylonitrile	7.870	41	64431	50.71	ug/L		97
30) 2-butanone	7.764	72	12129	53.95	ug/L	#	41
31) 1,1-dichloroethane	7.354	63	176067	47.96	ug/L		95
32) tert-butyl ethyl ether	8.159	59	311909	50.73	ug/L		91
33) Hexane	7.739	41	165662	49.10	ug/L		88
34) isobutyl alcohol	8.156	43	62746	395.89	ug/L		86
35) 2,2-dichloropropane	8.208	77	141850	52.50	ug/L		96
36) cis-1,2-dichloroethene	7.926	96	98801	50.07	ug/L		85
37) ethyl acetate	8.156	43	62227	77.98	ug/L		96
38) bromochloromethane	8.085	128	48079	49.94	ug/L	#	52

Quantitation Report (QT Reviewed)

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Data File : H75326.D
Acq On : 5 Oct 2015 10:46 am
Operator : kaylap
Sample : bs
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 11:07:48 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	chloroform	8.127	83	173174	49.08	ug/L		99
41)	1,1,1-trichloroethane	8.875	97	140911	50.18	ug/L		93
43)	cyclohexane	9.158	56	152667	43.39	ug/L	#	77
44)	carbon tetrachloride	9.239	117	115642	49.71	ug/L		98
45)	1,1-dichloropropene	9.052	75	117289	45.71	ug/L		93
46)	benzene	9.274	78	359176	47.58	ug/L		99
47)	tetrahydrofuran	8.455	42	30338	48.25	ug/L		91
48)	1,2-dichloroethane	8.777	62	139457	49.52	ug/L		99
49)	tert-amyl methyl ether	9.398	73	255319	49.76	ug/L		91
50)	heptane	9.761	43	134944	50.78	ug/L		92
51)	trichloroethene	9.895	95	101920	51.52	ug/L		81
52)	1,2-dichloropropane	9.860	63	103722	49.47	ug/L		96
53)	dibromomethane	9.835	93	65357	51.99	ug/L		94
54)	bromodichloromethane	9.948	83	125478	49.86	ug/L		96
55)	methylcyclohexane	10.414	83	147797	46.00	ug/L		86
56)	2-chloroethyl vinyl ether	10.333	63	60538	44.67	ug/L		87
57)	methyl methacrylate	10.054	69	65803	50.14	ug/L		91
58)	1,4-dioxane	10.058	88	4747	261.12	ug/L		75
59)	cis-1,3-dichloropropene	10.569	75	147272	52.42	ug/L		91
61)	4-methyl-2-pentanone	10.664	43	107477	50.49	ug/L		92
62)	toluene	11.346	92	223457	48.46	ug/L		98
63)	trans-1,3-dichloropropene	10.993	75	131944	46.51	ug/L		100
64)	1,1,2-trichloroethane	11.162	83	75883	49.45	ug/L		89
65)	ethyl methacrylate	11.377	69	130205	51.82	ug/L		97
67)	tetrachloroethene	12.087	166	100574	46.02	ug/L		92
68)	1,3-dichloropropane	11.398	76	158409	48.26	ug/L		98
69)	dibromochloromethane	11.684	129	90074	41.69	ug/L		99
70)	1,2-dibromoethane	11.935	107	92645	47.93	ug/L		96
71)	2-hexanone	11.529	43	79465	50.10	ug/L		94
72)	chlorobenzene	12.768	112	258382	44.42	ug/L		90
73)	1,1,1,2-tetrachloroethane	12.683	131	86237	47.92	ug/L		95
74)	ethylbenzene	12.944	91	445891	47.78	ug/L		97
75)	m,p-xylene	13.131	106	343989	98.25	ug/L		99
76)	o-xylene	13.540	106	168369	46.87	ug/L		99
77)	styrene	13.470	104	276724	45.79	ug/L		96
78)	bromoform	13.290	173	58922	48.49	ug/L		100
79)	trans-1,4-dichloro-2-b...	13.699	53	33953	48.50	ug/L		88
81)	isopropylbenzene	13.907	105	419647	44.05	ug/L		99
83)	bromobenzene	14.190	156	119009	45.20	ug/L	#	85
84)	1,1,2,2-tetrachloroethane	13.547	83	106387	45.80	ug/L		96
85)	1,2,3-trichloropropane	13.696	75	131544	49.87	ug/L		95
86)	n-propylbenzene	14.352	91	497975	44.32	ug/L		94
87)	2-chlorotoluene	14.469	91	299879	44.62	ug/L		89
88)	4-chlorotoluene	14.546	91	327230	46.28	ug/L		91
89)	1,3,5-trimethylbenzene	14.634	105	376340	50.28	ug/L		99
90)	tert-butylbenzene	14.938	91	210992	46.25	ug/L		88
91)	1,2,4-trimethylbenzene	15.044	105	369411	49.19	ug/L		100
92)	sec-butylbenzene	15.160	105	450686	46.45	ug/L		98
93)	1,3-dichlorobenzene	15.259	146	209132	46.94	ug/L		100
94)	p-isopropyltoluene	15.337	119	392362	48.10	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75326.D
Acq On : 5 Oct 2015 10:46 am
Operator : kaylap
Sample : bs
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 11:07:48 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
95) 1,4-dichlorobenzene	15.326	146	223624	46.01 ug/L	98
96) 1,2-dichlorobenzene	15.697	146	195922	48.42 ug/L	99
97) n-butylbenzene	15.757	91	366530	50.69 ug/L	91
98) 1,2-dibromo-3-chloropr...	16.176	75	11518	49.86 ug/L	81
99) 1,3,5-trichlorobenzene	16.992	180	117083	47.10 ug/L #	94
100) 1,2,4-trichlorobenzene	17.549	180	67710	53.59 ug/L	99
101) hexachlorobutadiene	17.853	225	50290	54.13 ug/L	97
102) naphthalene	17.824	128	96980	50.96 ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	67710	53.59 ug/L	99

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

7.3.1

7

Quantitation Report (QT Reviewed)

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Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 11:07:48 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
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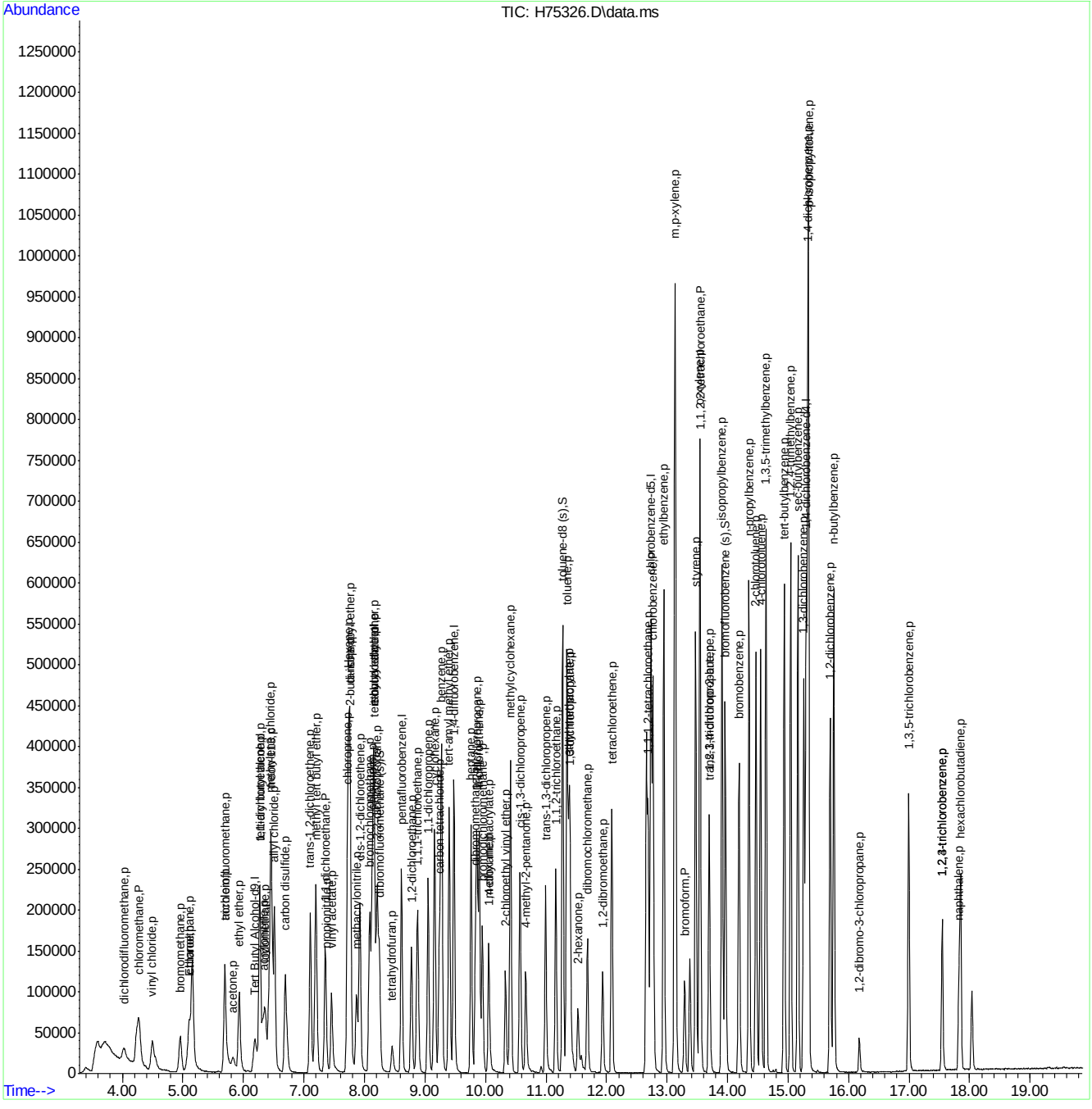
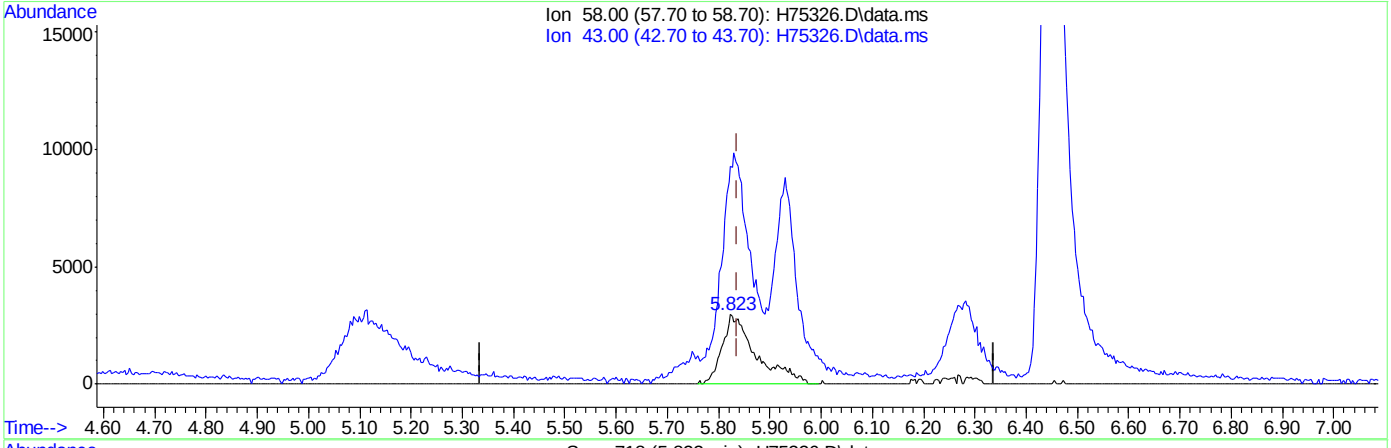
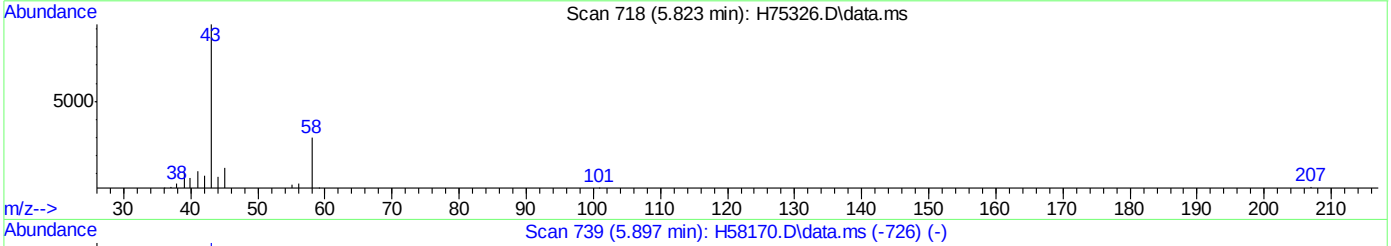


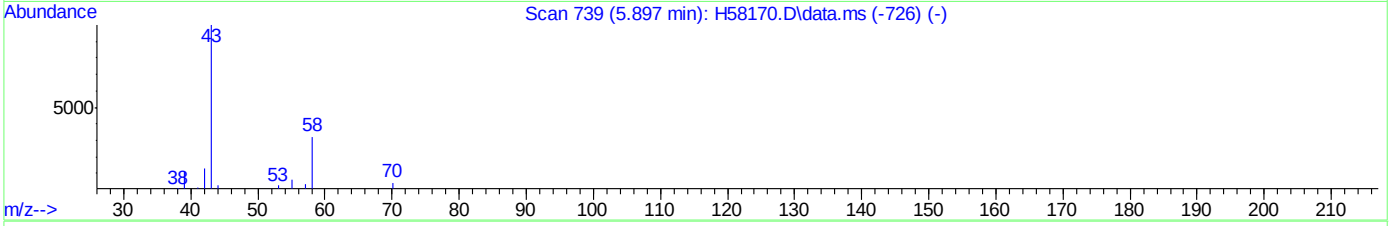
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75326.D
Acq On : 5 Oct 2015 10:46 am
Operator : kaylap
Sample : bs
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 11:06:42 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75326.D\data.ms

(15) acetone (p)

5.823min (-0.014) 68.66ug/L

response 13692

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	270.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75326.D
Acq On    :  5 Oct 2015  10:46 am
Operator  : kaylap
Sample    : bs
Misc      : ms35328,msh2507,,,,5,1
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Oct 05 11:06:42 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
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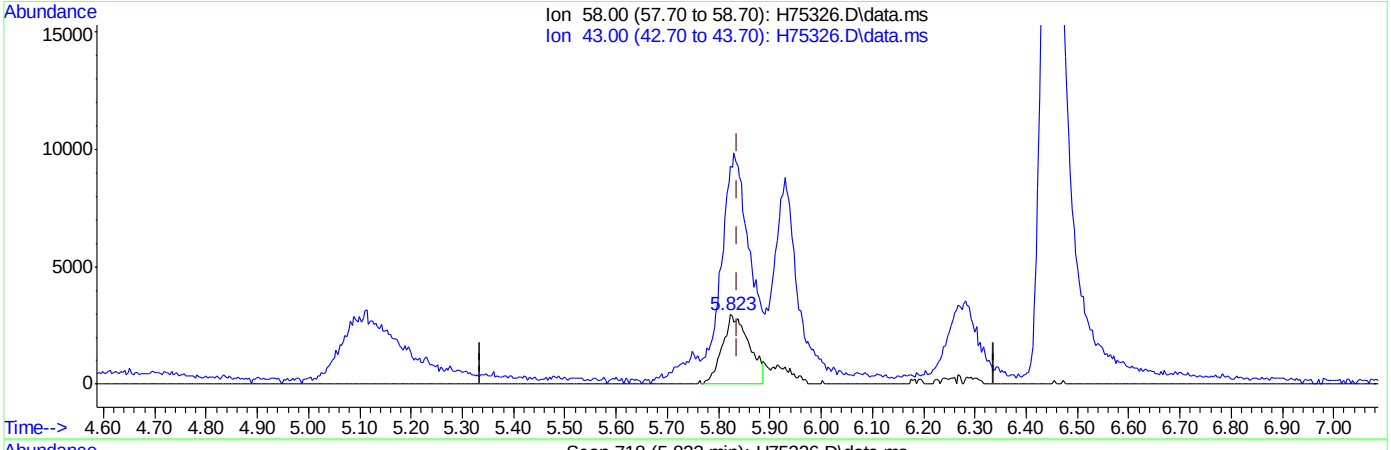

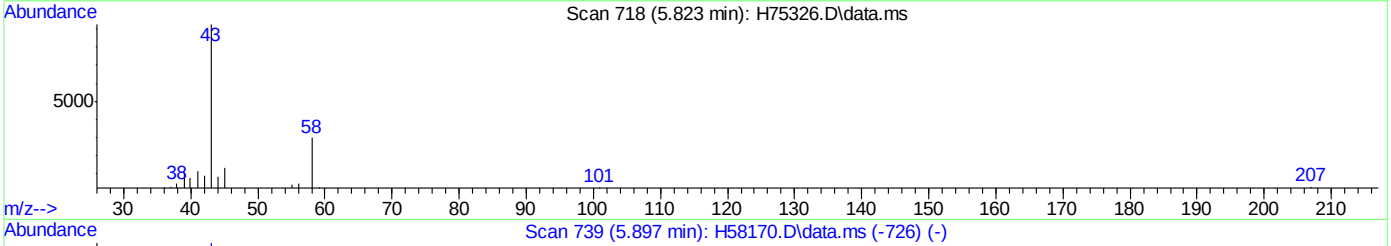

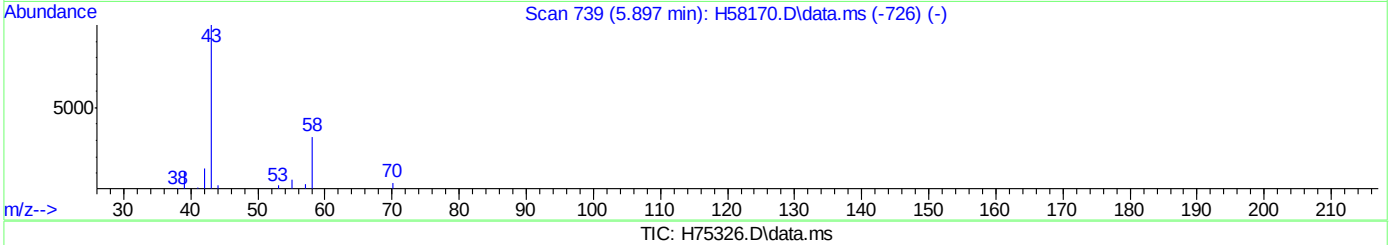

TIC: H75326.D\data.ms

(15) acetone (p)

5.823min (-0.014) 54.60ug/L m

response 10889

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	311.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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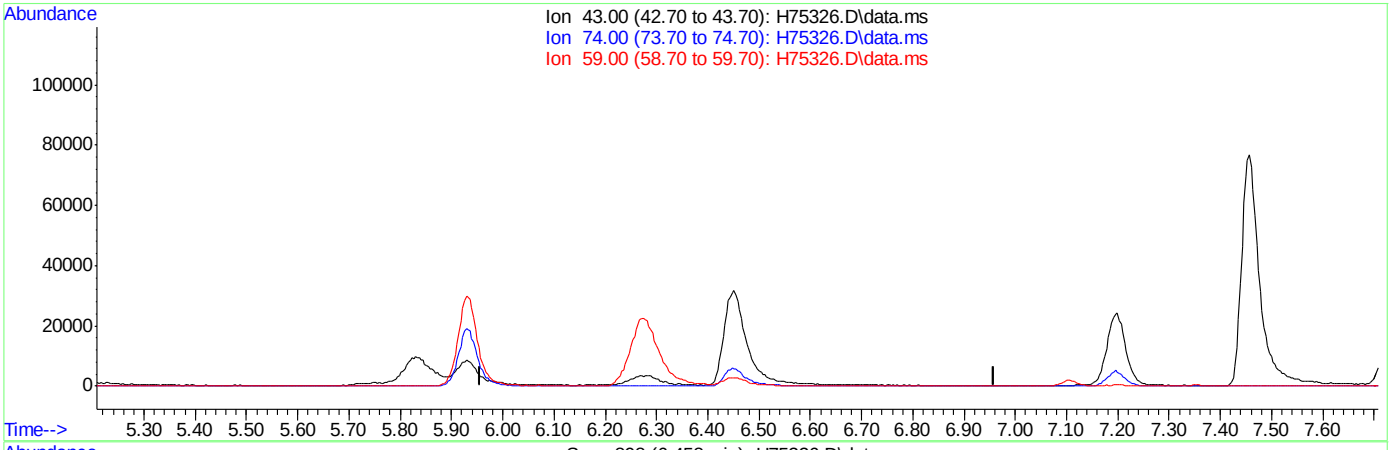
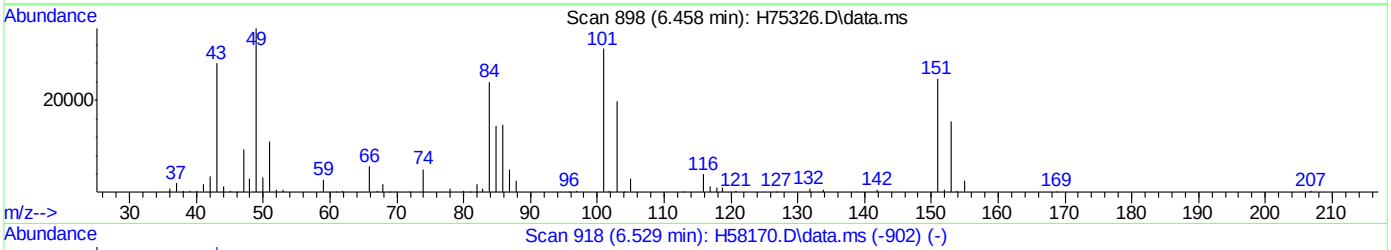
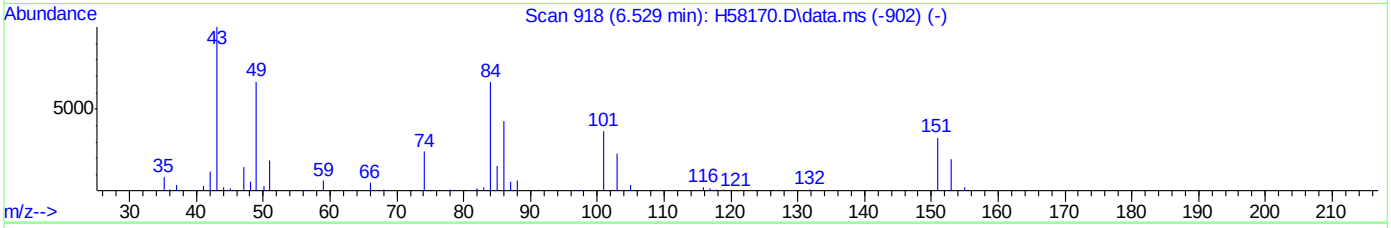
Acq On : 5 Oct 2015 10:46 am
Operator : kaylap
Sample : bs
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 11:06:42 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75326.D\data.ms

(17) methyl acetate (p)

6.458min (-6.458) 0.00ug/L

response 0

Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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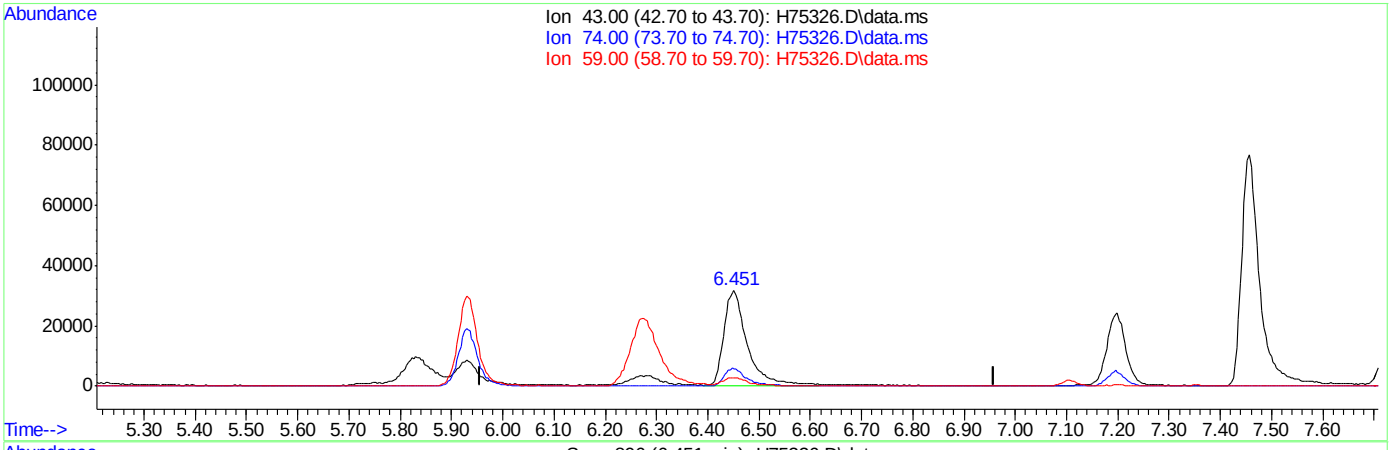

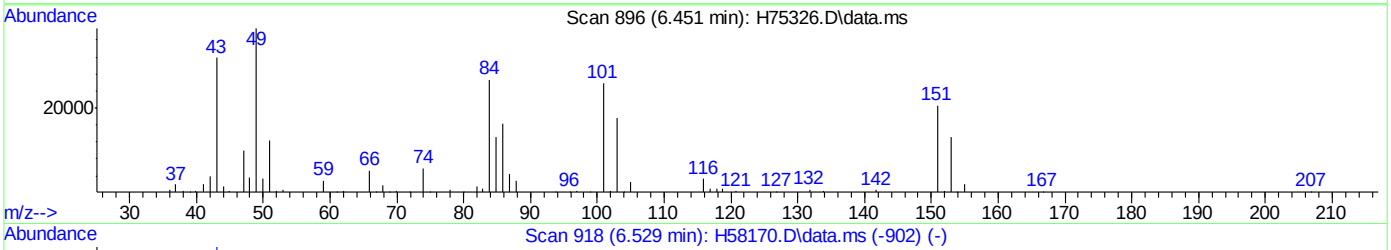

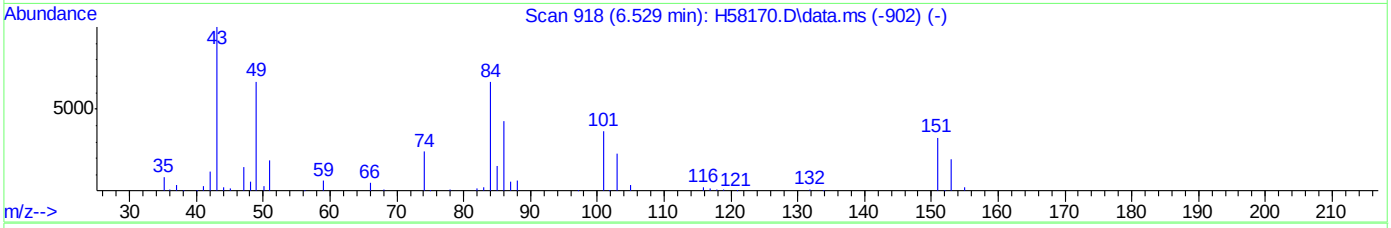

TIC: H75326.D\data.ms

(17) methyl acetate (p)

6.451min (-0.007) 55.75ug/L m

response 102125

Ion	Exp%	Act%
43.00	100	100
74.00	25.40	18.04
59.00	13.30	8.99
0.00	0.00	0.00

Quantitation Report (Qedit)

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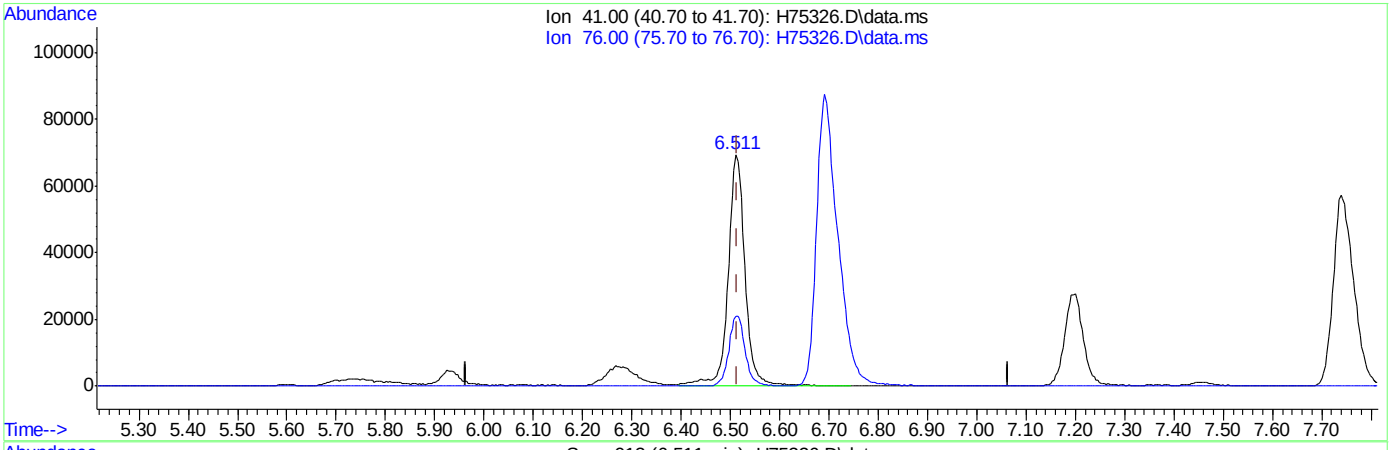

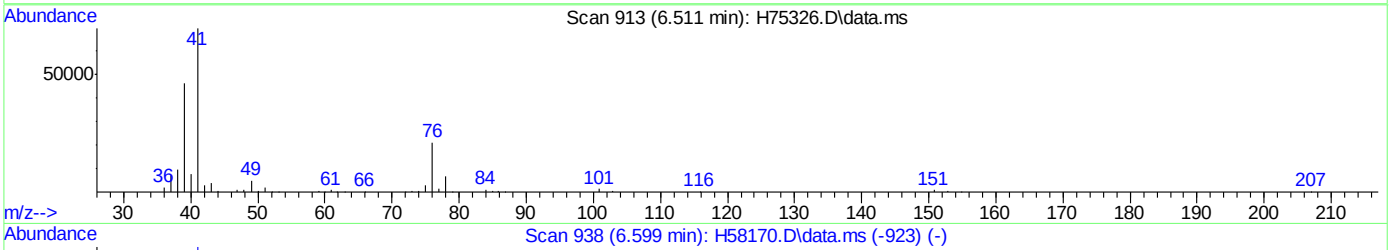

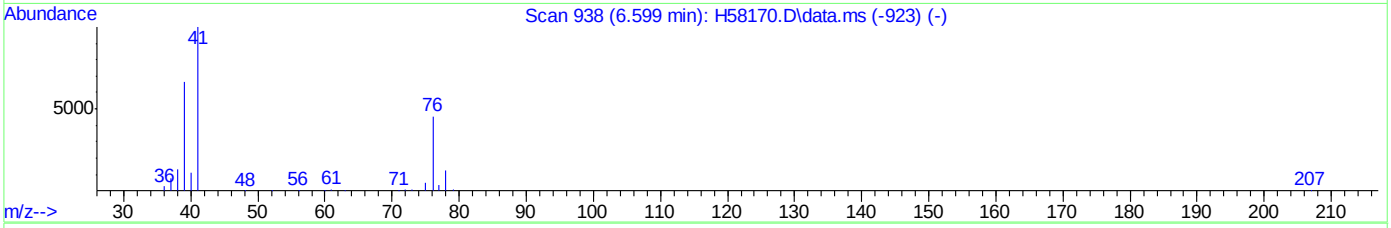

TIC: H75326.D\data.ms

(21) allyl chloride (p)

6.511min (-0.003) 50.00ug/L

response 166299

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75326.D
Acq On : 5 Oct 2015 10:46 am
Operator : kaylap
Sample : bs
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

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Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
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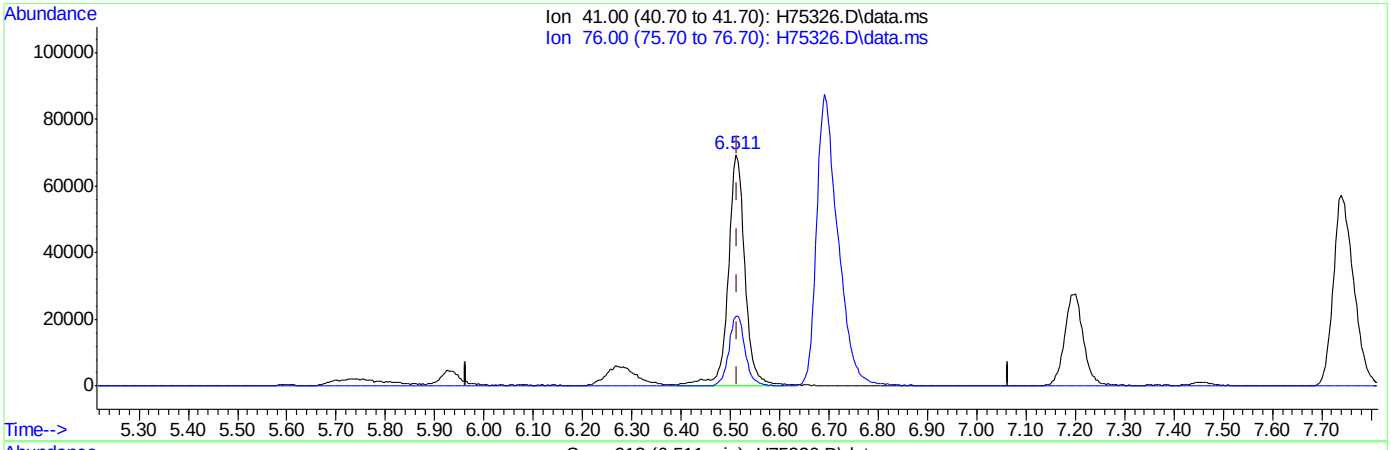
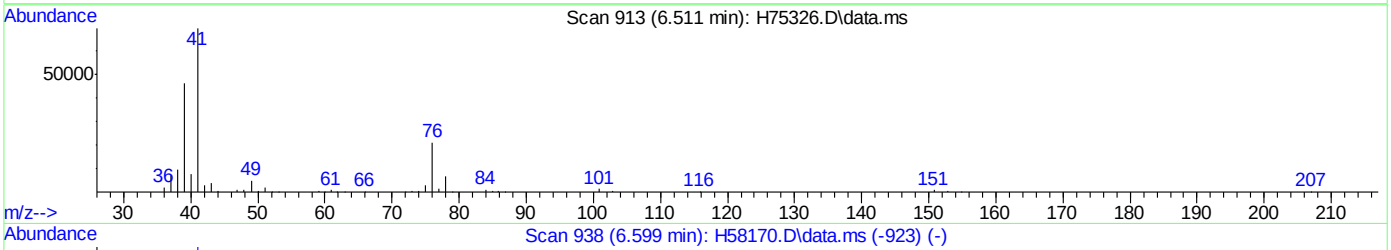
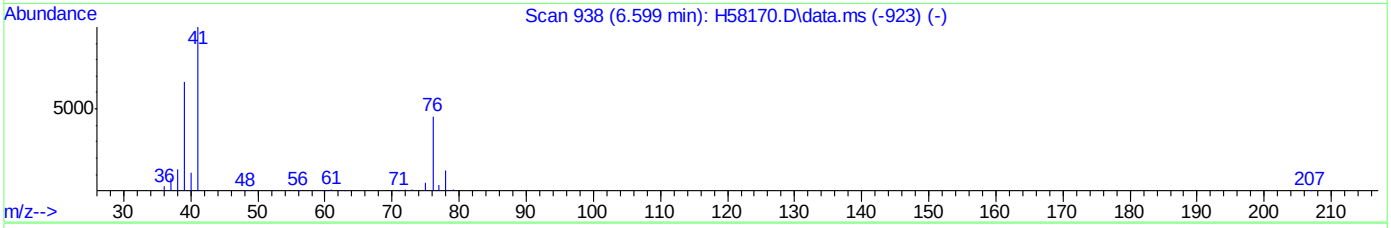






TIC: H75326.D\data.ms

(21) allyl chloride (p)

6.511min (-0.003) 49.35ug/L m

response 164131

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/06/15 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.195	65	79084	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	200835	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	313209	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	190481	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	168223	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	100729	49.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.20%			
60) toluene-d8 (s)	11.276	98	387747	51.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.08%			
82) bromofluorobenzene (s)	13.962	95	164620	49.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.280	59	83664	458.07	ug/L	94
3) Ethanol	5.104	45	95330	3980.96	ug/L	98
5) dichlorodifluoromethane	4.028	85	89590	41.38	ug/L	98
6) chloromethane	4.272	50	99831	53.01	ug/L	97
7) vinyl chloride	4.494	62	117055	56.07	ug/L	100
8) bromomethane	4.956	96	69951	56.22	ug/L	97
9) chloroethane	5.112	64	73970	57.84	ug/L	98
11) trichlorofluoromethane	5.697	101	160061	50.99	ug/L	100
12) freon-113	6.467	101	90726	45.56	ug/L	91
13) acrolein	5.687	56	57381	636.95	ug/L	92
14) 1,1-dichloroethene	6.269	96	86664	50.24	ug/L #	75
15) acetone	5.835	58	11935m	55.88	ug/L	
16) ethyl ether	5.934	59	82598	47.97	ug/L	86
17) methyl acetate	6.452	43	101826	51.91	ug/L	88
18) methylene chloride	6.449	84	105759	48.47	ug/L #	75
19) methyl tert butyl ether	7.201	73	264010	49.23	ug/L	87
20) acrylonitrile	6.325	53	39919	50.61	ug/L	91
21) allyl chloride	6.512	41	173266m	48.65	ug/L	
22) trans-1,2-dichloroethene	7.105	96	94319	49.08	ug/L	83
23) iodomethane	6.361	142	147540	47.77	ug/L	90
24) carbon disulfide	6.692	76	284381	45.10	ug/L	99
25) propionitrile	7.373	54	13184	46.27	ug/L	100
26) vinyl acetate	7.455	43	215251	56.90	ug/L	93
27) chloroprene	7.719	53	154444	46.50	ug/L	99
28) di-isopropyl ether	7.762	45	352163	49.74	ug/L	90
29) methacrylonitrile	7.871	41	62165	45.69	ug/L	93
30) 2-butanone	7.772	72	13144	54.59	ug/L #	93
31) 1,1-dichloroethane	7.356	63	183246	46.61	ug/L	95
32) tert-butyl ethyl ether	8.157	59	313278	47.58	ug/L	91
33) Hexane	7.740	41	169254	46.85	ug/L #	84
34) isobutyl alcohol	8.157	43	60297	353.20	ug/L	83
35) 2,2-dichloropropane	8.210	77	150205	51.91	ug/L	96
36) cis-1,2-dichloroethene	7.920	96	102039	48.29	ug/L	87
37) ethyl acetate	8.157	43	60633	70.59	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.090	128	49501	48.02 ug/L #	56
39) chloroform	8.129	83	176257	46.65 ug/L	100
41) 1,1,1-trichloroethane	8.877	97	149318	49.65 ug/L	92
43) cyclohexane	9.159	56	169885	45.77 ug/L #	80
44) carbon tetrachloride	9.240	117	126452	51.53 ug/L	96
45) 1,1-dichloropropene	9.053	75	128685	47.54 ug/L	91
46) benzene	9.275	78	376199	47.24 ug/L	100
47) tetrahydrofuran	8.460	42	30510	46.00 ug/L	89
48) 1,2-dichloroethane	8.778	62	136166	45.83 ug/L	99
49) tert-amyl methyl ether	9.403	73	255010	47.11 ug/L	91
50) heptane	9.762	43	143503	51.19 ug/L	92
51) trichloroethene	9.897	95	102872	49.30 ug/L	80
52) 1,2-dichloropropane	9.861	63	104864	47.41 ug/L	96
53) dibromomethane	9.833	93	64291	48.48 ug/L	93
54) bromodichloromethane	9.949	83	125902	47.42 ug/L	93
55) methylcyclohexane	10.415	83	161242	47.57 ug/L	87
56) 2-chloroethyl vinyl ether	10.334	63	71850	50.26 ug/L	88
57) methyl methacrylate	10.055	69	67206	48.54 ug/L	92
58) 1,4-dioxane	10.062	88	3153	175.58 ug/L	96
59) cis-1,3-dichloropropene	10.571	75	150475	50.77 ug/L	91
61) 4-methyl-2-pentanone	10.666	43	106267	47.33 ug/L	92
62) toluene	11.347	92	235097	48.33 ug/L	99
63) trans-1,3-dichloropropene	10.994	75	134174	44.87 ug/L	97
64) 1,1,2-trichloroethane	11.163	83	76939	47.53 ug/L	93
65) ethyl methacrylate	11.379	69	130296	49.16 ug/L	96
67) tetrachloroethene	12.088	166	107571	47.36 ug/L	92
68) 1,3-dichloropropane	11.396	76	157958	46.31 ug/L	97
69) dibromochloromethane	11.686	129	92921	41.39 ug/L	98
70) 1,2-dibromoethane	11.936	107	92443	46.02 ug/L	95
71) 2-hexanone	11.530	43	79054	47.96 ug/L	94
72) chlorobenzene	12.769	112	264620	43.78 ug/L	90
73) 1,1,1,2-tetrachloroethane	12.688	131	89231	47.71 ug/L	96
74) ethylbenzene	12.945	91	462887	47.73 ug/L	96
75) m,p-xylene	13.132	106	358286	98.47 ug/L	98
76) o-xylene	13.545	106	172247	46.14 ug/L	96
77) styrene	13.471	104	282798	45.03 ug/L	97
78) bromoform	13.291	173	60007	47.57 ug/L	98
79) trans-1,4-dichloro-2-b...	13.701	53	33298	45.97 ug/L	87
81) isopropylbenzene	13.909	105	440607	45.11 ug/L	100
83) bromobenzene	14.191	156	120004	44.45 ug/L	86
84) 1,1,2,2-tetrachloroethane	13.545	83	111360	46.76 ug/L	96
85) 1,2,3-trichloropropane	13.697	75	127522	47.16 ug/L	96
86) n-propylbenzene	14.357	91	511047	44.36 ug/L	96
87) 2-chlorotoluene	14.470	91	302808	43.95 ug/L	90
88) 4-chlorotoluene	14.547	91	323644	44.65 ug/L	91
89) 1,3,5-trimethylbenzene	14.636	105	382525	49.84 ug/L	99
90) tert-butylbenzene	14.936	91	215140	45.99 ug/L	90
91) 1,2,4-trimethylbenzene	15.045	105	369573	48.00 ug/L	99
92) sec-butylbenzene	15.162	105	466585	46.90 ug/L	98
93) 1,3-dichlorobenzene	15.260	146	208108	45.56 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) p-isopropyltoluene	15.338	119	395938	47.34 ug/L	98
95) 1,4-dichlorobenzene	15.327	146	224093	44.97 ug/L	99
96) 1,2-dichlorobenzene	15.694	146	194869	46.97 ug/L	99
97) n-butylbenzene	15.758	91	371330	50.08 ug/L	91
98) 1,2-dibromo-3-chloropr...	16.181	75	11979	50.57 ug/L	89
99) 1,3,5-trichlorobenzene	16.993	180	118374	46.44 ug/L #	94
100) 1,2,4-trichlorobenzene	17.551	180	69906	54.01 ug/L	100
101) hexachlorobutadiene	17.854	225	52187	54.93 ug/L	97
102) naphthalene	17.826	128	101229	52.00 ug/L	100
103) 1,2,3-trichlorobenzene	17.551	180	69906	54.01 ug/L	98

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

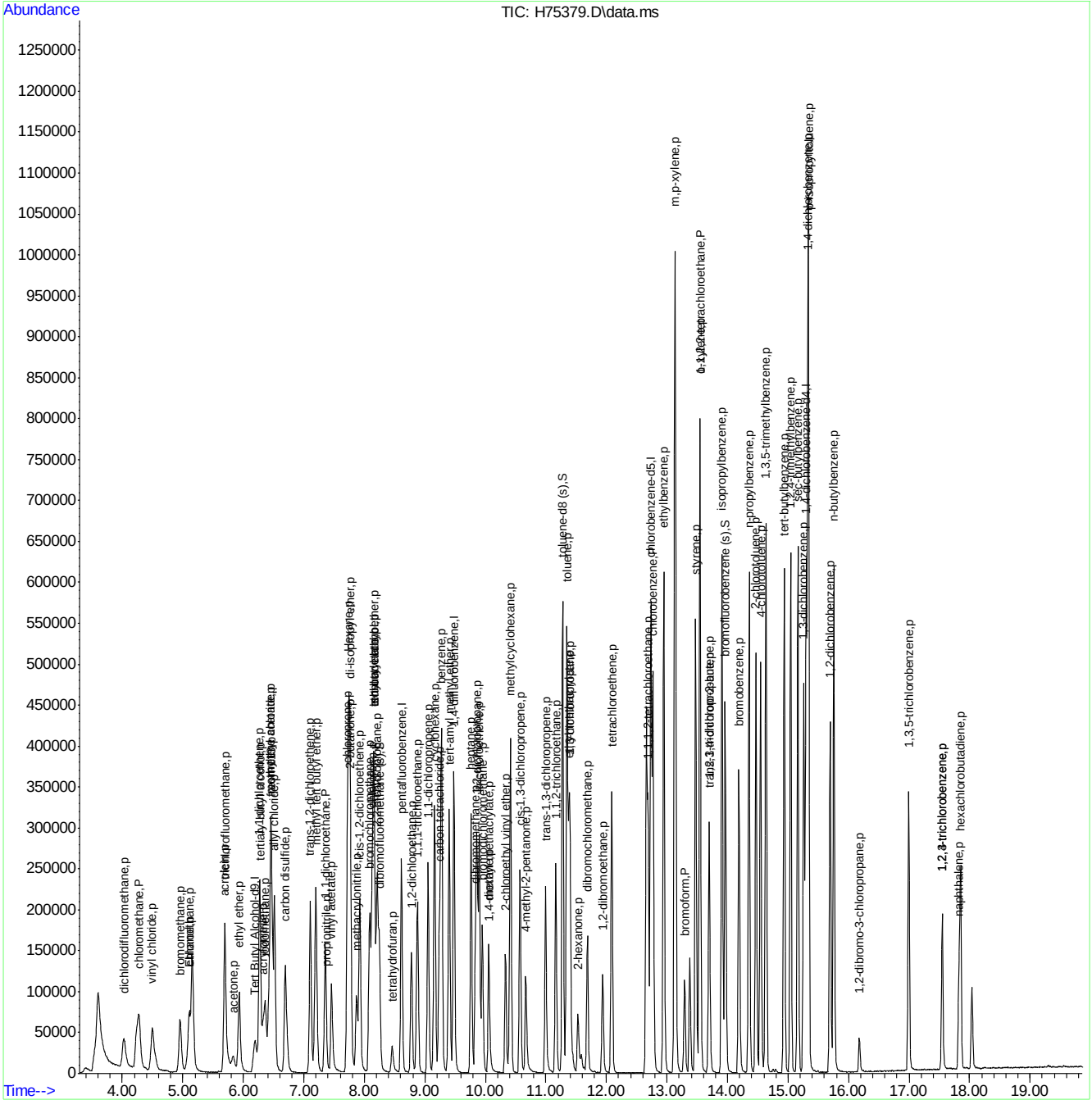
7.3.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

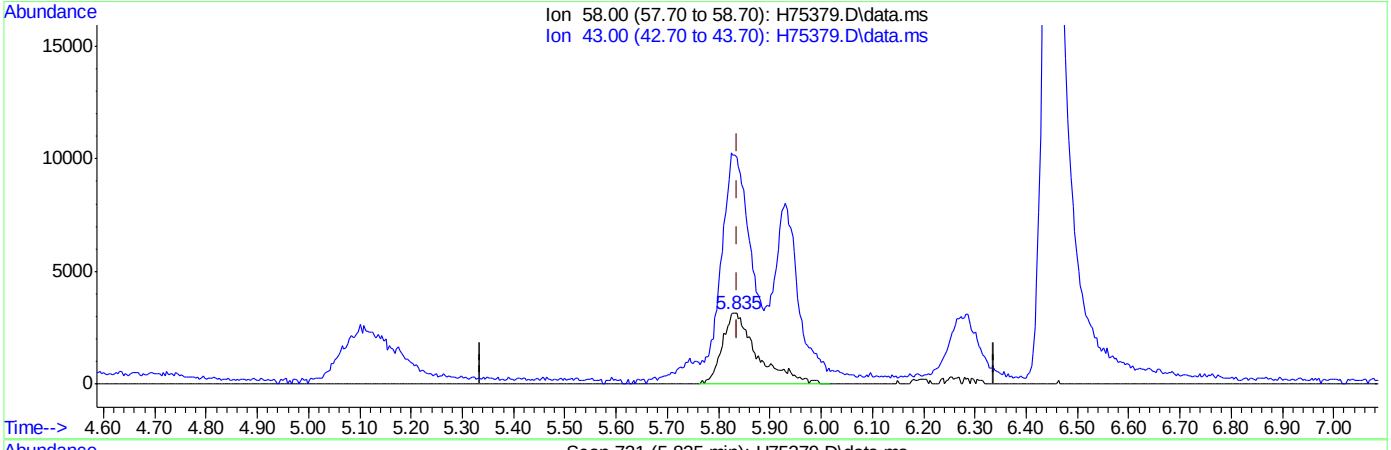


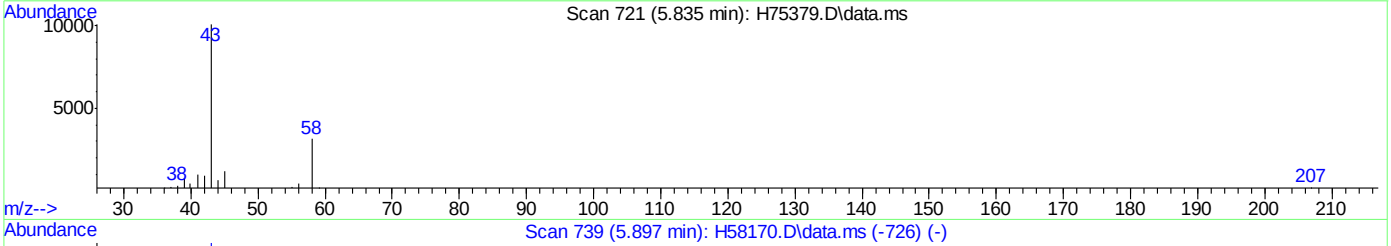
ACCUTEST LABORATORIES MC41696

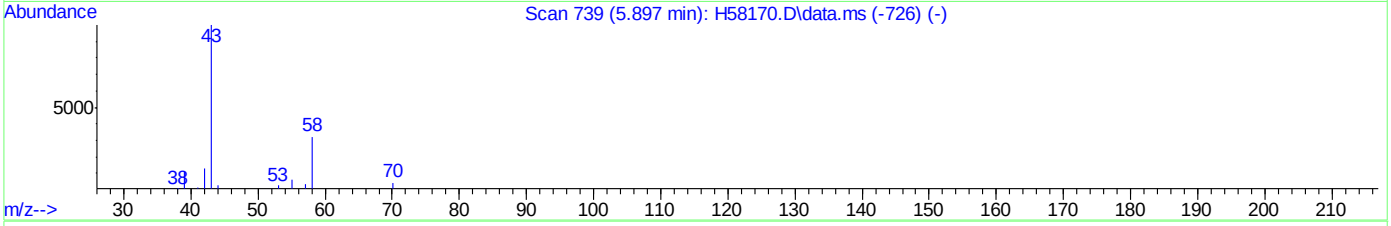
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(15) acetone (p)

5.835min (-0.002) 70.33ug/L

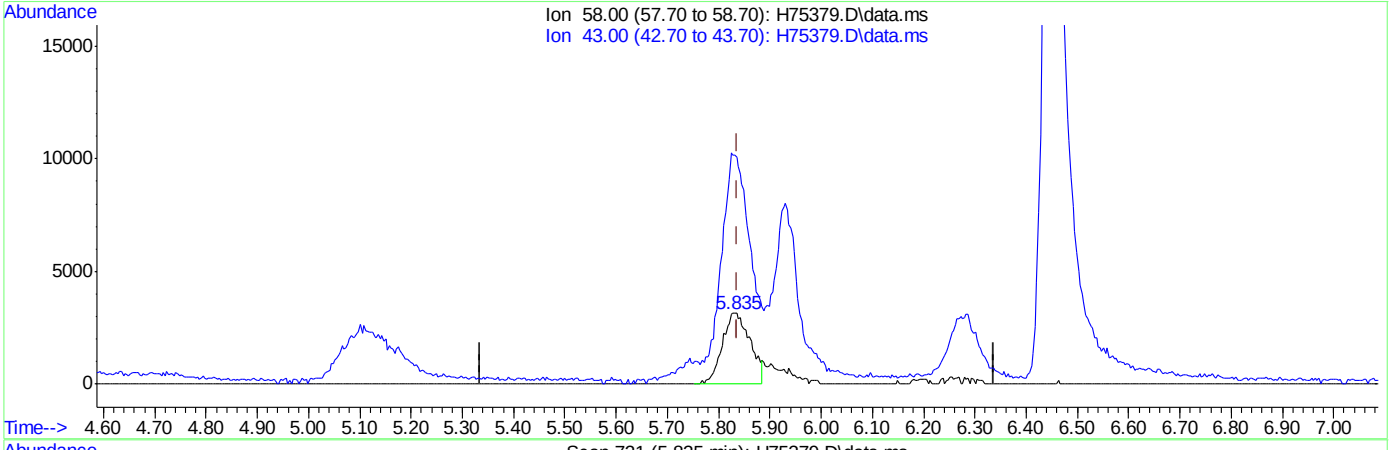
response 15021

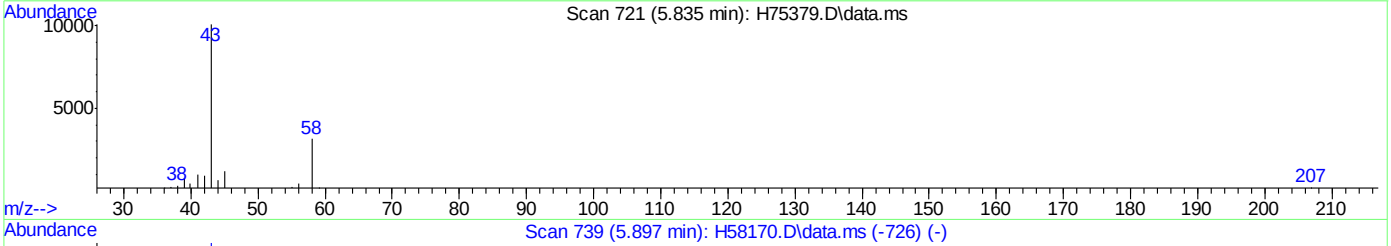
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	296.95
0.00	0.00	0.00
0.00	0.00	0.00

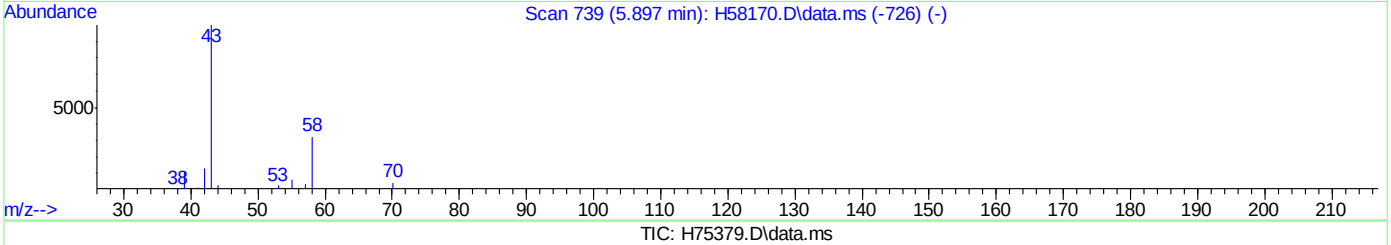
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(15) acetone (p)

5.835min (-0.002) 55.88ug/L m

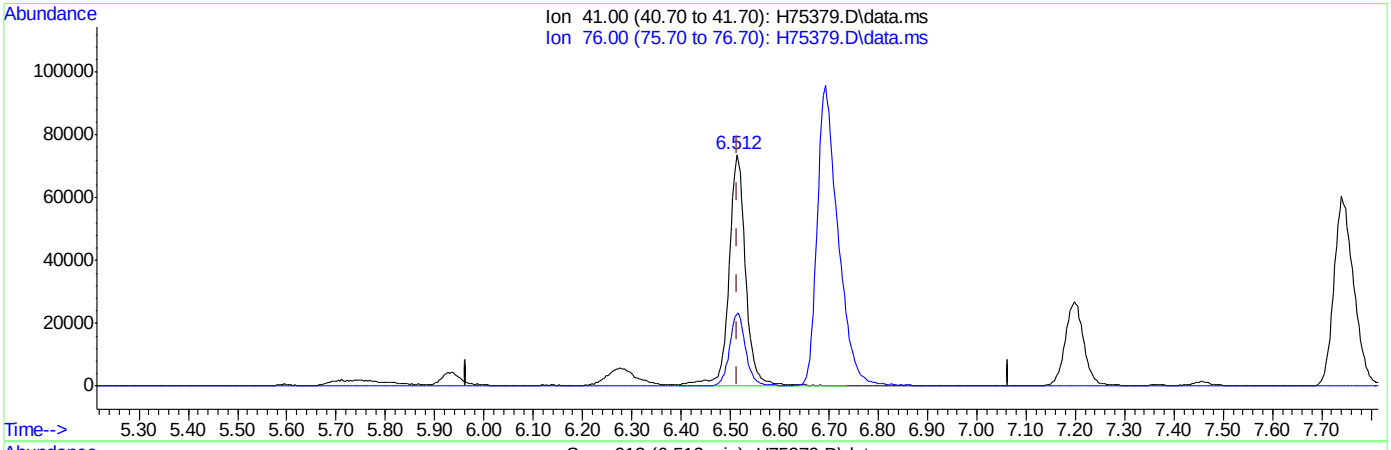
response 11935

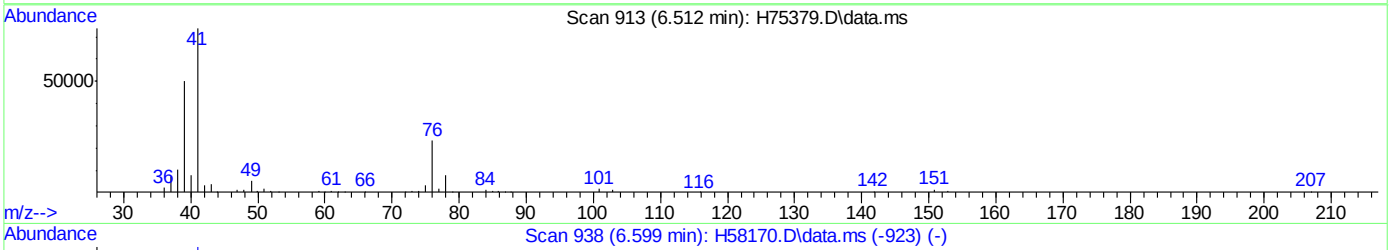
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.66
0.00	0.00	0.00
0.00	0.00	0.00

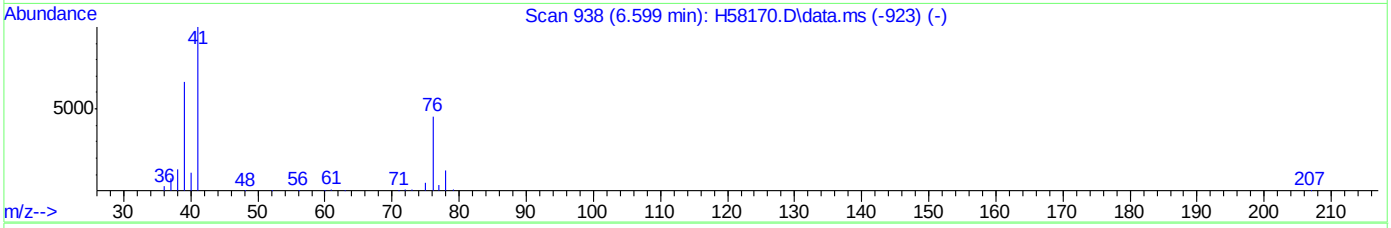
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(21) allyl chloride (p)

6.512min (-0.002) 49.06ug/L

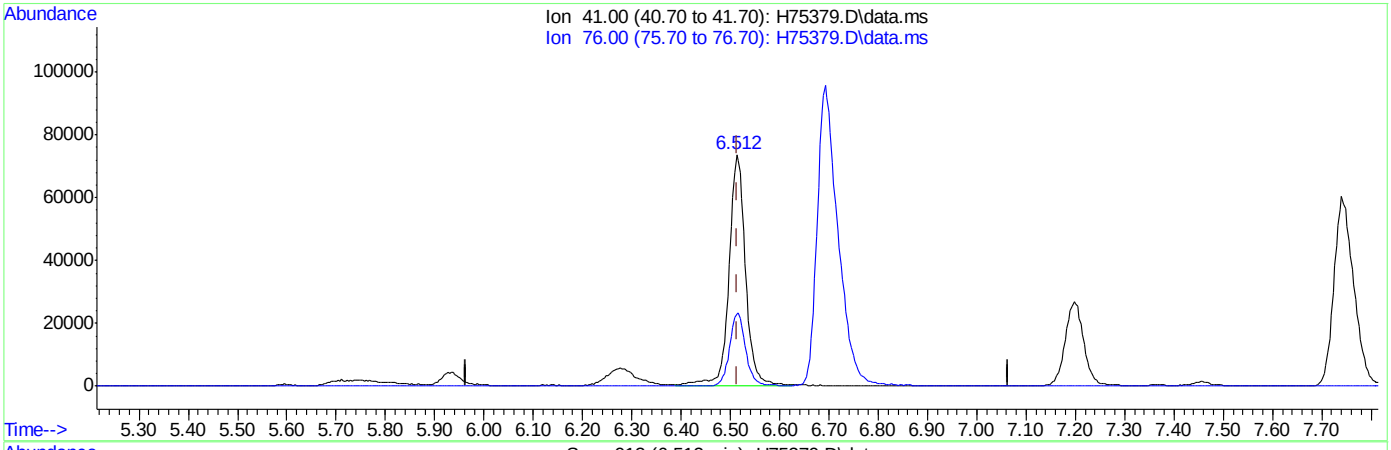
response 174737

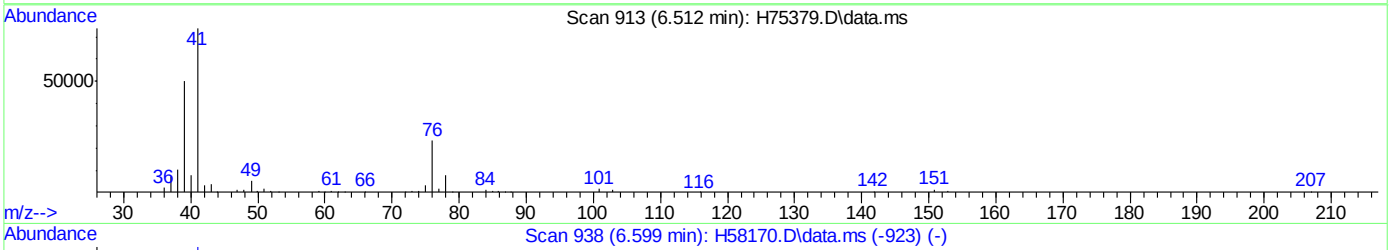
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.38
0.00	0.00	0.00
0.00	0.00	0.00

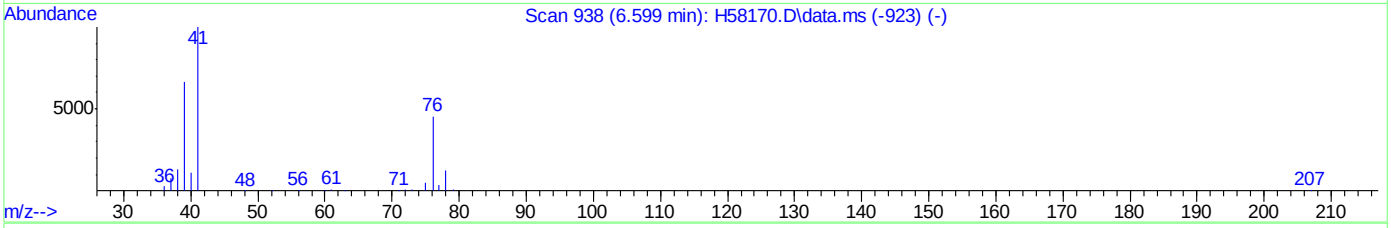
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(21) allyl chloride (p)

6.512min (-0.002) 48.65ug/L m

response 173266

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/06/15 16:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On : 5 Oct 2015 8:13 pm
Operator : kaylap
Sample : mc41696-1ms
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 08:54:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.187	65	77963	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	179272	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	281541	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	176119	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	153983	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	93706	51.69	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.38%			
60) toluene-d8 (s)	11.275	98	341905	50.06	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.12%			
82) bromofluorobenzene (s)	13.964	95	149032	48.86	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.72%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.271	59	87464	485.77	ug/L	94
3) Ethanol	5.103	45	103319	4367.57	ug/L	98
5) dichlorodifluoromethane	4.020	85	33727	17.27	ug/L	100
6) chloromethane	4.271	50	72687	42.76	ug/L	100
7) vinyl chloride	4.496	62	75862	40.38	ug/L	99
8) bromomethane	4.952	96	48255	43.28	ug/L	100
9) chloroethane	5.103	64	54587	47.82	ug/L	95
11) trichlorofluoromethane	5.696	101	109484	39.11	ug/L	99
12) freon-113	6.462	101	90061	50.67	ug/L	92
13) acrolein	5.693	56	37905	471.37	ug/L	98
14) 1,1-dichloroethene	6.271	96	85586	55.58	ug/L #	75
15) acetone	5.823	58	8301m	43.54	ug/L	
16) ethyl ether	5.933	59	79621	51.80	ug/L	88
17) methyl acetate	6.451	43	100050	57.14	ug/L	87
18) methylene chloride	6.448	84	104516	53.66	ug/L #	73
19) methyl tert butyl ether	7.196	73	253920	53.05	ug/L	88
20) acrylonitrile	6.324	53	38311	54.42	ug/L	99
21) allyl chloride	6.511	41	168389m	52.97	ug/L	
22) trans-1,2-dichloroethene	7.104	96	91273	53.21	ug/L	84
23) iodomethane	6.360	142	141710	51.40	ug/L	91
24) carbon disulfide	6.695	76	274047	48.69	ug/L	99
25) propionitrile	7.369	54	12751	49.72	ug/L	100
26) vinyl acetate	7.457	43	177746	52.64	ug/L	94
27) chloroprene	7.718	53	120669	40.70	ug/L	99
28) di-isopropyl ether	7.761	45	348742	55.18	ug/L	87
29) methacrylonitrile	7.870	41	57756	47.55	ug/L	95
30) 2-butanone	7.771	72	10971	51.04	ug/L #	75
31) 1,1-dichloroethane	7.355	63	181651	51.76	ug/L	96
32) tert-butyl ethyl ether	8.156	59	304319	51.77	ug/L	91
33) Hexane	7.739	41	163765	50.78	ug/L	89
34) isobutyl alcohol	8.156	43	58962	388.82	ug/L	84
35) 2,2-dichloropropane	8.212	77	137438	53.21	ug/L	97
36) cis-1,2-dichloroethene	7.923	96	101661	53.90	ug/L	84
37) ethyl acetate	8.156	43	60188	78.95	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On : 5 Oct 2015 8:13 pm
Operator : kaylap
Sample : mc41696-1ms
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 08:54:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.085	128	47871	52.02	ug/L	#	50
39)	chloroform	8.128	83	176767	52.41	ug/L		100
41)	1,1,1-trichloroethane	8.876	97	152330	56.74	ug/L		91
43)	cyclohexane	9.158	56	167108	50.08	ug/L	#	77
44)	carbon tetrachloride	9.239	117	128604	58.30	ug/L		98
45)	1,1-dichloropropene	9.052	75	124456	51.15	ug/L		92
46)	benzene	9.271	78	368834	51.52	ug/L		99
47)	tetrahydrofuran	8.452	42	29321	49.18	ug/L		85
48)	1,2-dichloroethane	8.777	62	136994	51.30	ug/L		99
49)	tert-amyl methyl ether	9.402	73	245220	50.40	ug/L		90
50)	heptane	9.761	43	123231	48.90	ug/L		91
51)	trichloroethene	9.899	95	100826	53.75	ug/L		80
52)	1,2-dichloropropane	9.860	63	103771	52.19	ug/L		95
53)	dibromomethane	9.836	93	63344	53.14	ug/L		94
54)	bromodichloromethane	9.948	83	124531	52.18	ug/L		96
55)	methylcyclohexane	10.414	83	148401	48.71	ug/L		85
57)	methyl methacrylate	10.058	69	61541	49.45	ug/L		89
58)	1,4-dioxane	10.054	88	3761	223.13	ug/L		95
59)	cis-1,3-dichloropropene	10.573	75	141676	53.18	ug/L		89
61)	4-methyl-2-pentanone	10.668	43	107483	53.25	ug/L		91
62)	toluene	11.346	92	218446	49.96	ug/L		100
63)	trans-1,3-dichloropropene	10.993	75	127283	47.30	ug/L		98
64)	1,1,2-trichloroethane	11.162	83	75088	51.60	ug/L		92
65)	ethyl methacrylate	11.378	69	121889	51.16	ug/L		96
67)	tetrachloroethene	12.087	166	104092	49.57	ug/L		92
68)	1,3-dichloropropane	11.399	76	155795	49.40	ug/L		97
69)	dibromochloromethane	11.685	129	90019	43.34	ug/L		99
70)	1,2-dibromoethane	11.939	107	89378	48.12	ug/L		94
71)	2-hexanone	11.529	43	72296	47.44	ug/L		93
72)	chlorobenzene	12.768	112	259613	46.45	ug/L		89
73)	1,1,1,2-tetrachloroethane	12.687	131	87084	50.36	ug/L		94
74)	ethylbenzene	12.948	91	435195	48.53	ug/L		96
75)	m,p-xylene	13.131	106	305807	90.90	ug/L		99
76)	o-xylene	13.544	106	149120	43.20	ug/L		99
77)	styrene	13.474	104	160041	27.56	ug/L		98
78)	bromoform	13.290	173	56602	48.48	ug/L		100
79)	trans-1,4-dichloro-2-b...	13.700	53	30868	46.08	ug/L	#	85
81)	isopropylbenzene	13.908	105	412784	46.17	ug/L		100
83)	bromobenzene	14.190	156	114654	46.40	ug/L		86
84)	1,1,2,2-tetrachloroethane	13.544	83	108168	49.62	ug/L		94
85)	1,2,3-trichloropropane	13.696	75	122469	49.48	ug/L		96
86)	n-propylbenzene	14.356	91	477294	45.26	ug/L		93
87)	2-chlorotoluene	14.469	91	296967	47.09	ug/L		89
88)	4-chlorotoluene	14.547	91	310479	46.79	ug/L		90
89)	1,3,5-trimethylbenzene	14.635	105	269078	38.30	ug/L		98
90)	tert-butylbenzene	14.938	91	209331	48.89	ug/L		90
91)	1,2,4-trimethylbenzene	15.044	105	307751	43.66	ug/L		98
92)	sec-butylbenzene	15.161	105	436184	47.90	ug/L		98
93)	1,3-dichlorobenzene	15.259	146	200623	47.98	ug/L		99
94)	p-isopropyltoluene	15.337	119	351521	45.91	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On : 5 Oct 2015 8:13 pm
Operator : kaylap
Sample : mc41696-1ms
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 08:54:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.330	146	215872	47.32	ug/L	99
96) 1,2-dichlorobenzene	15.697	146	189351	49.86	ug/L	100
97) n-butylbenzene	15.757	91	338334	49.85	ug/L	91
98) 1,2-dibromo-3-chloropr...	16.180	75	11629	53.64	ug/L	84
99) 1,3,5-trichlorobenzene	16.996	180	110855	47.52	ug/L	95
100) 1,2,4-trichlorobenzene	17.550	180	63556	53.60	ug/L	99
101) hexachlorobutadiene	17.853	225	45139	51.29	ug/L	96
102) naphthalene	17.825	128	93394	52.47	ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	63556	53.60	ug/L	97

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

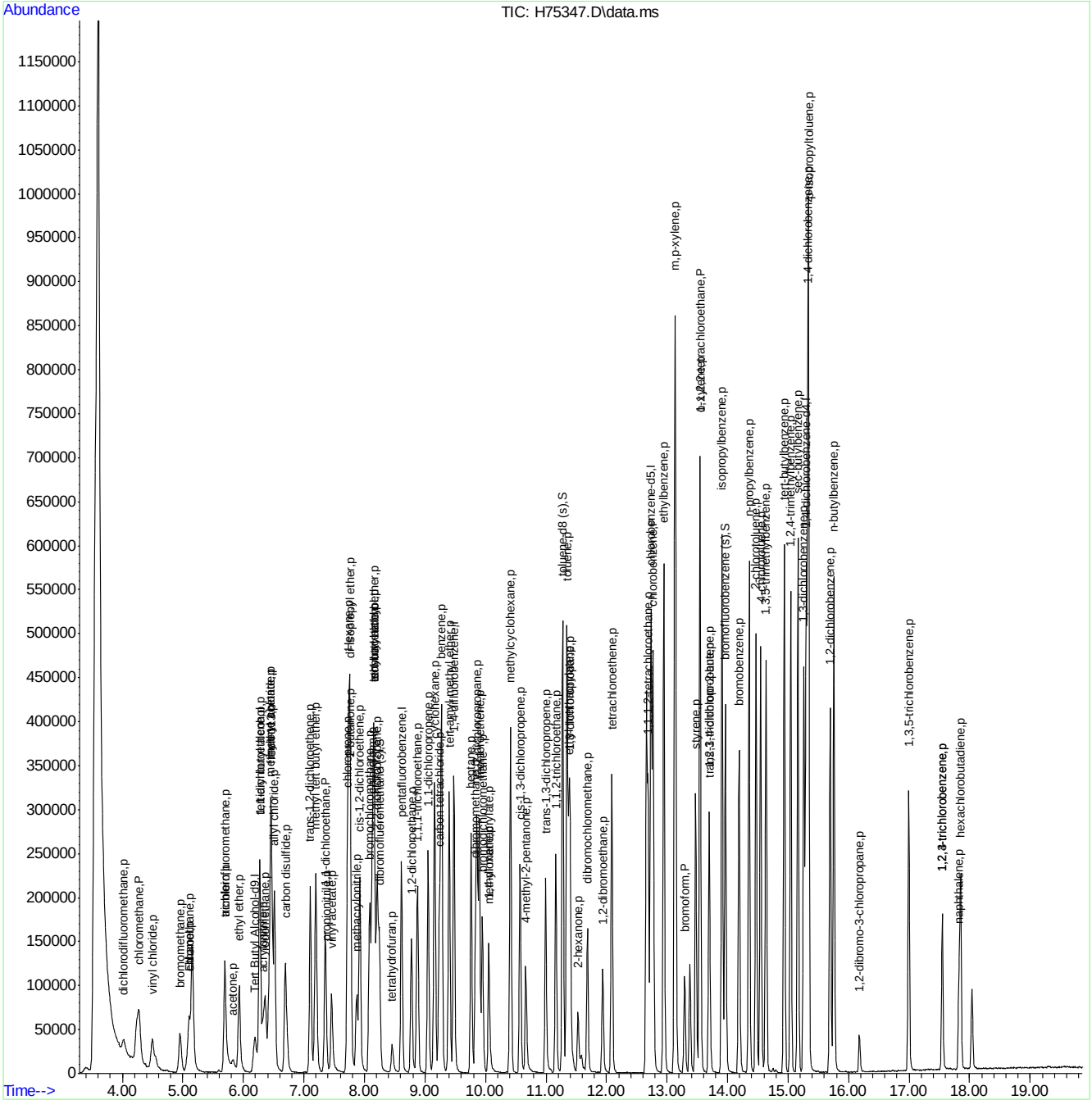
7.4.1

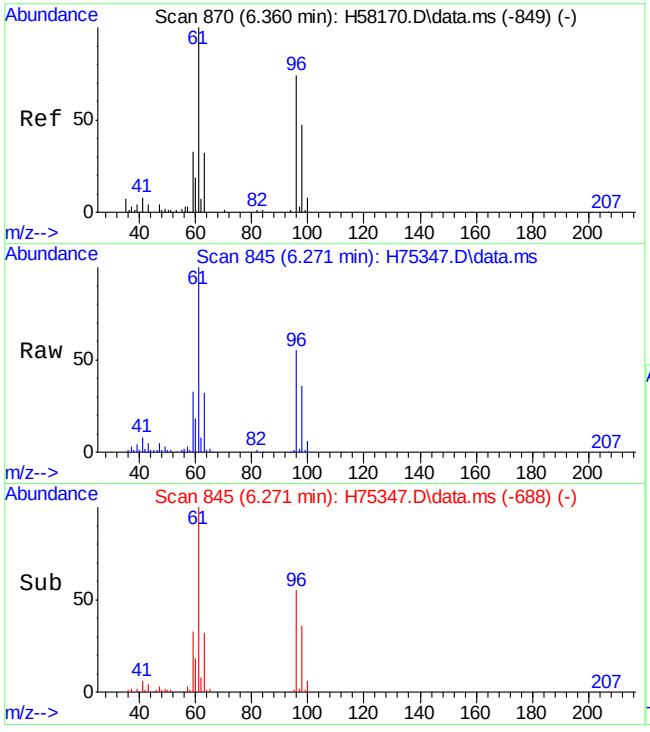
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On : 5 Oct 2015 8:13 pm
Operator : kaylap
Sample : mc41696-1ms
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 08:54:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

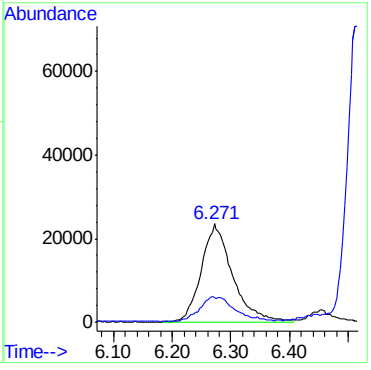


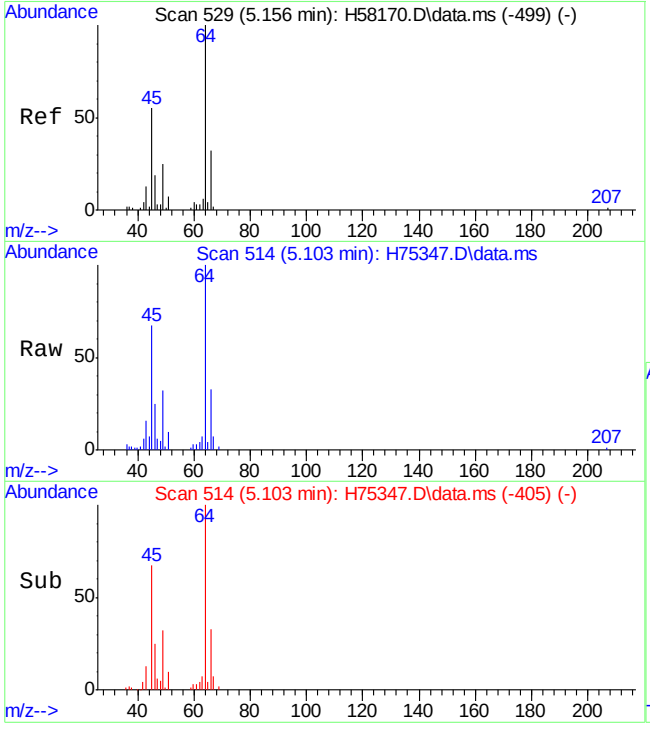


#2
tertiary butyl alcohol
Concen: 485.77 ug/L
RT: 6.271 min Scan# 845
Delta R.T. -0.007 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 59 Resp: 87464

Ion	Ratio	Lower	Upper
59	100		
41	24.3	0.0	57.4

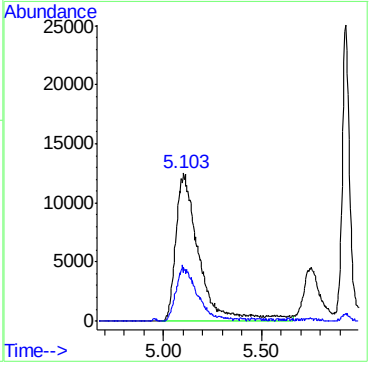


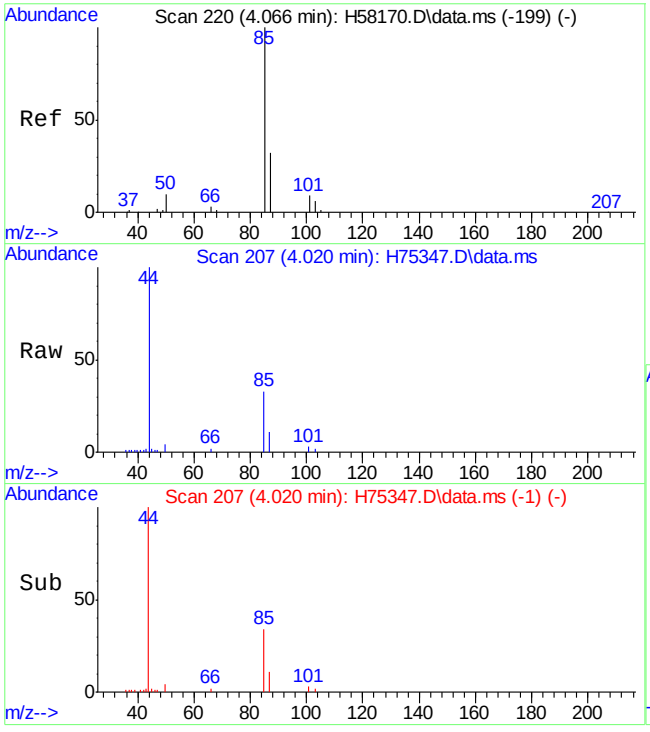


#3
Ethanol
Concen: 4367.57 ug/L
RT: 5.103 min Scan# 514
Delta R.T. -0.017 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 45 Resp: 103319

Ion	Ratio	Lower	Upper
45	100		
46	33.4	27.7	41.5

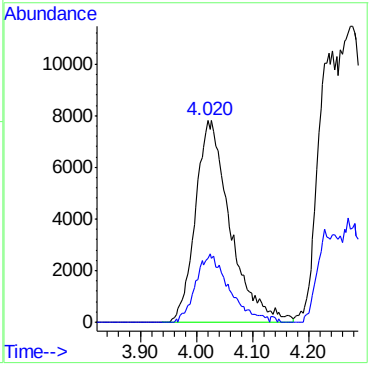


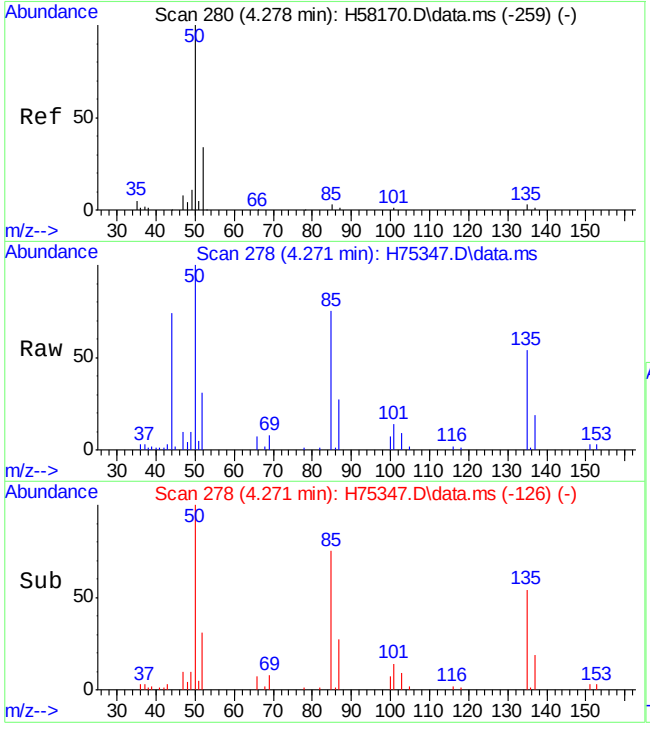


#5
dichlorodifluoromethane
Concen: 17.27 ug/L
RT: 4.020 min Scan# 207
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 85 Resp: 33727

Ion	Ratio	Lower	Upper
85	100		
87	31.4	1.5	61.5

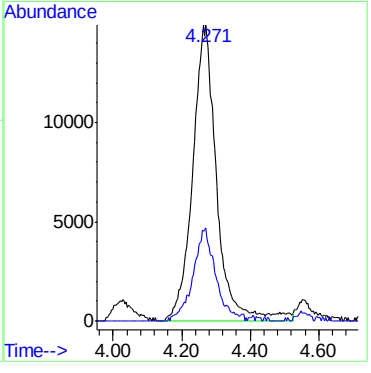


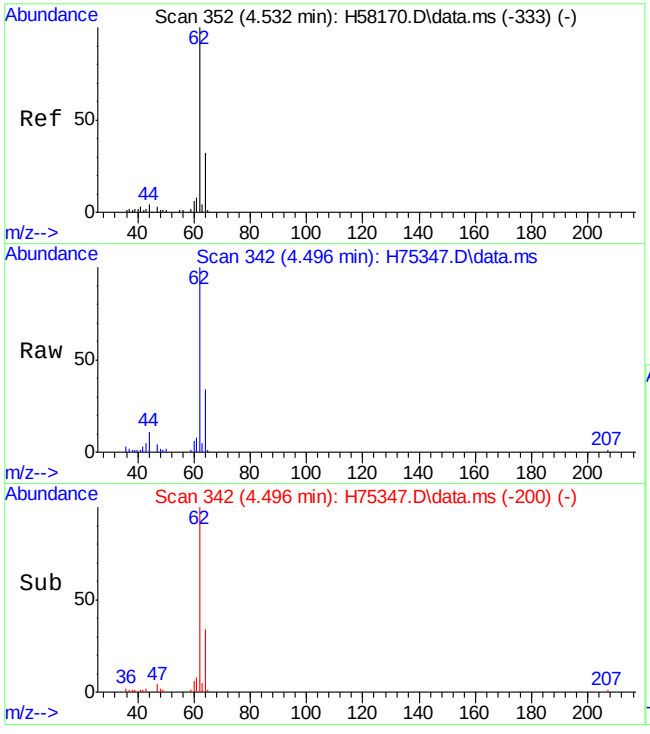


#6
chloromethane
Concen: 42.76 ug/L
RT: 4.271 min Scan# 278
Delta R.T. 0.008 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 50 Resp: 72687

Ion	Ratio	Lower	Upper
50	100		
52	31.5	1.7	61.7

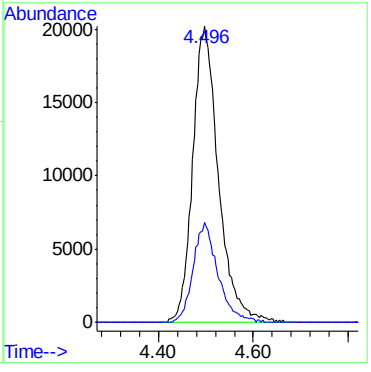


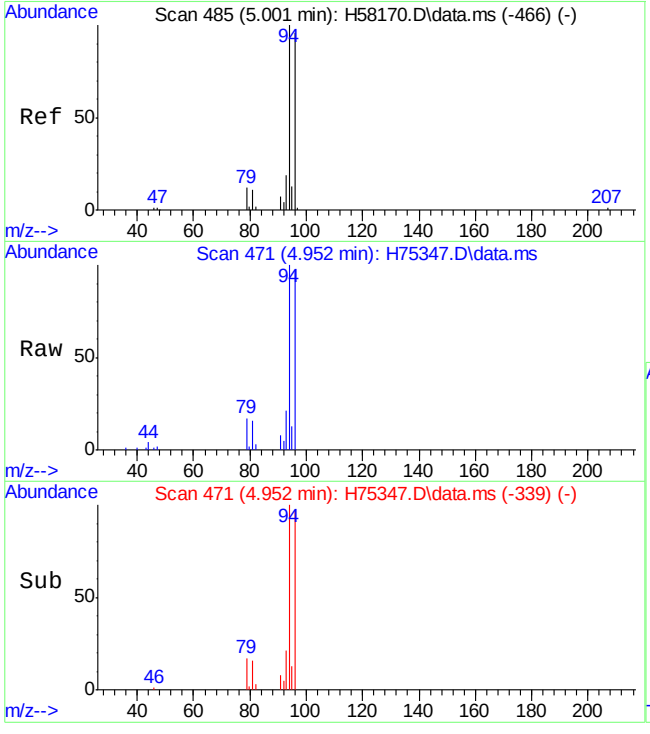


#7
vinyl chloride
Concen: 40.38 ug/L
RT: 4.496 min Scan# 342
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 62 Resp: 75862

Ion	Ratio	Lower	Upper
62	100		
64	33.8	3.2	63.2

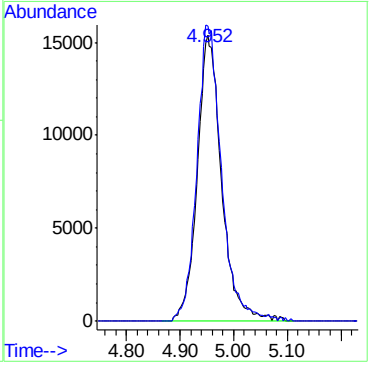




#8
bromomethane
Concen: 43.28 ug/L
RT: 4.952 min Scan# 471
Delta R.T. 0.005 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 96 Resp: 48255

Ion	Ratio	Lower	Upper
96	100		
94	103.0	72.8	132.8



7.4.1

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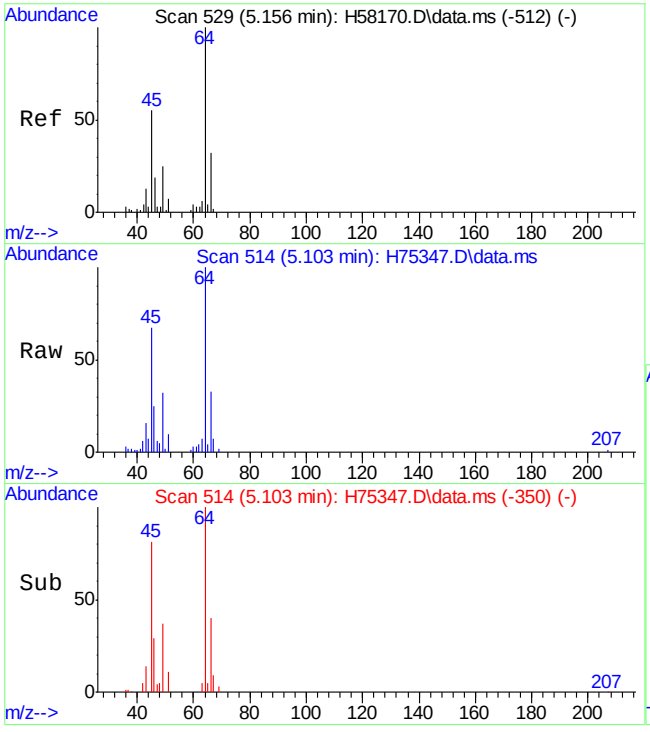
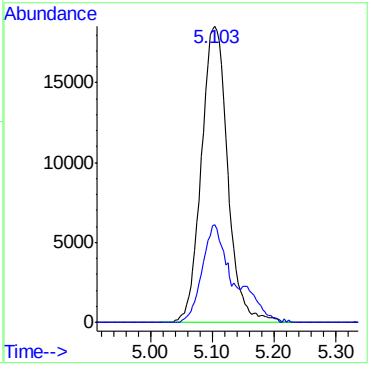
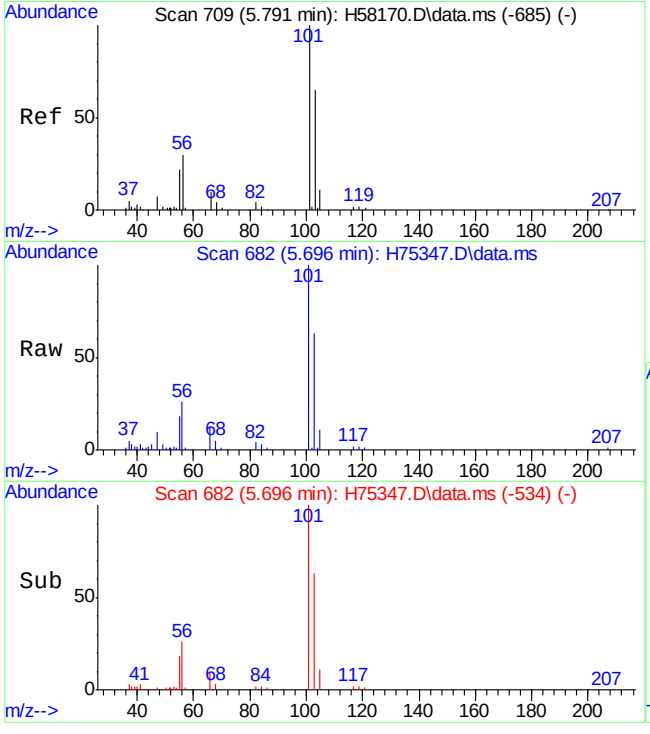


#9
chloroethane
Concen: 47.82 ug/L
RT: 5.103 min Scan# 514
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 64 Resp: 54587

Ion	Ratio	Lower	Upper
64	100		
66	33.0	0.3	60.3

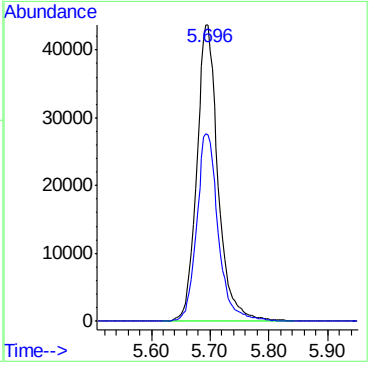


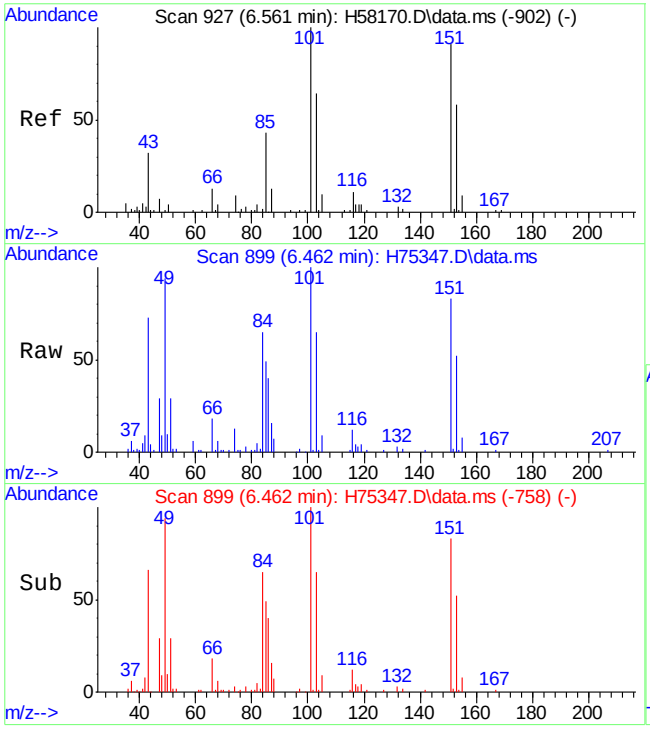


#11
trichlorofluoromethane
Concen: 39.11 ug/L
RT: 5.696 min Scan# 682
Delta R.T. 0.001 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:101 Resp: 109484

Ion	Ratio	Lower	Upper
101	100		
103	62.8	33.5	93.5

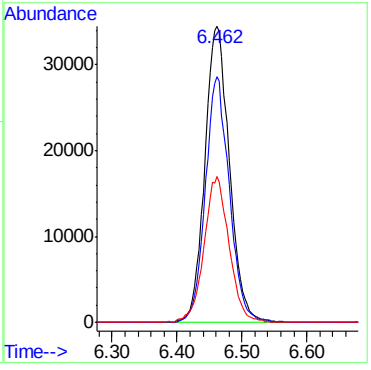


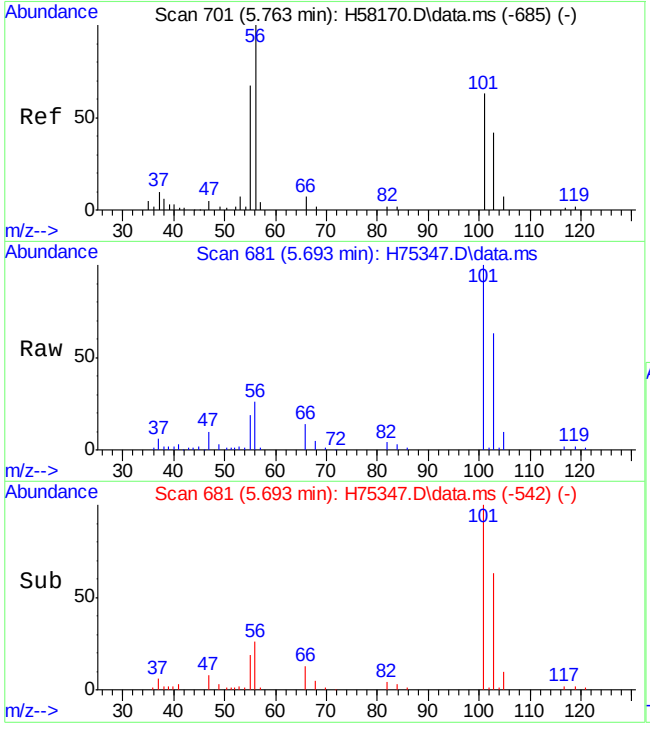


#12
freon-113
Concen: 50.67 ug/L
RT: 6.462 min Scan# 899
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:101 Resp: 90061

Ion	Ratio	Lower	Upper
101	100		
151	82.9	57.8	117.8
85	49.2	10.8	70.8

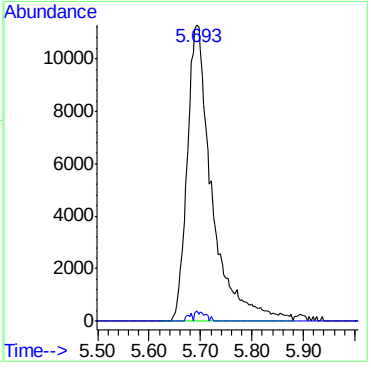


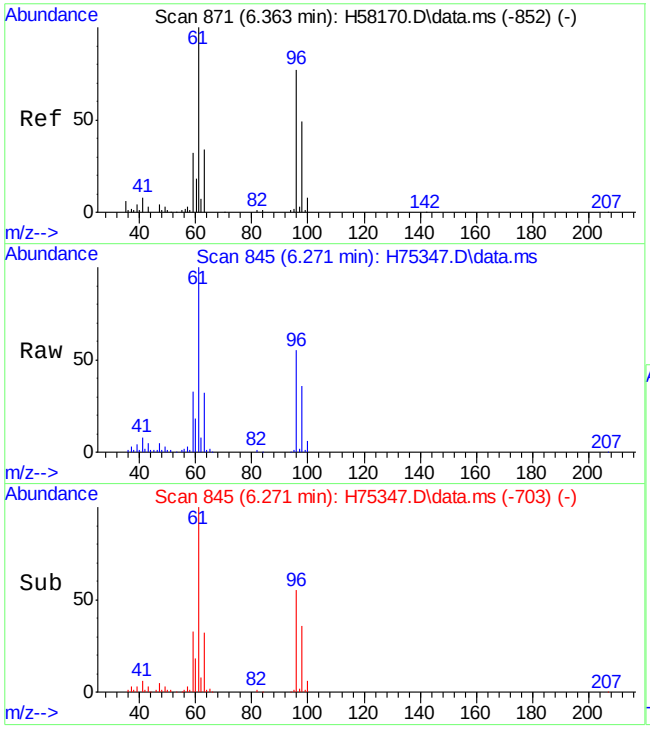


#13
acrolein
Concen: 471.37 ug/L
RT: 5.693 min Scan# 681
Delta R.T. -0.010 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 56 Resp: 37905

Ion	Ratio	Lower	Upper
56	100		
52	3.3	0.0	32.7

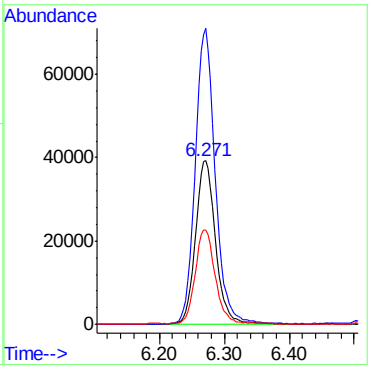


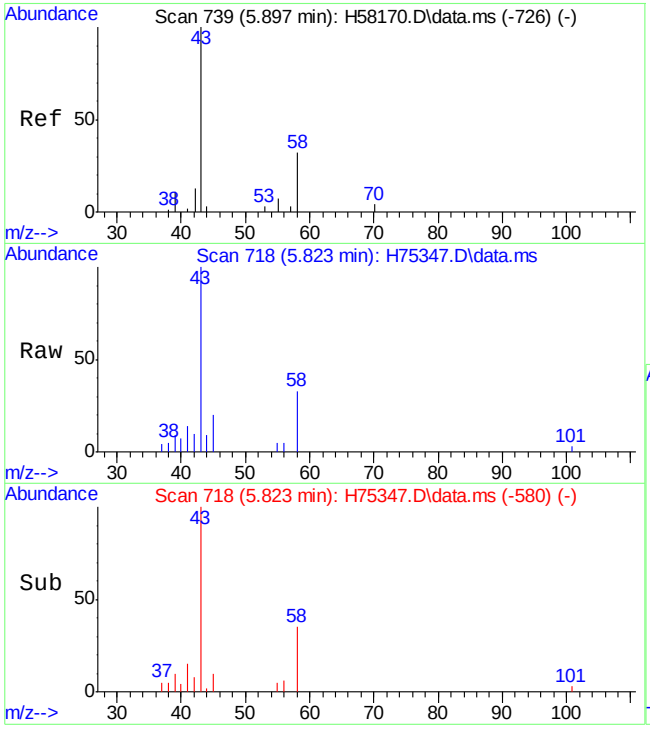


#14
1,1-dichloroethene
Concen: 55.58 ug/L
RT: 6.271 min Scan# 845
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 96 Resp: 85586

Ion	Ratio	Lower	Upper
96	100		
61	180.6	114.6	174.6#
63	57.9	18.4	78.4

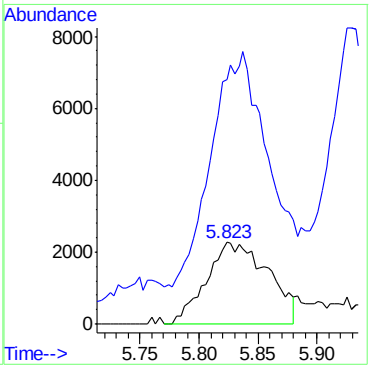


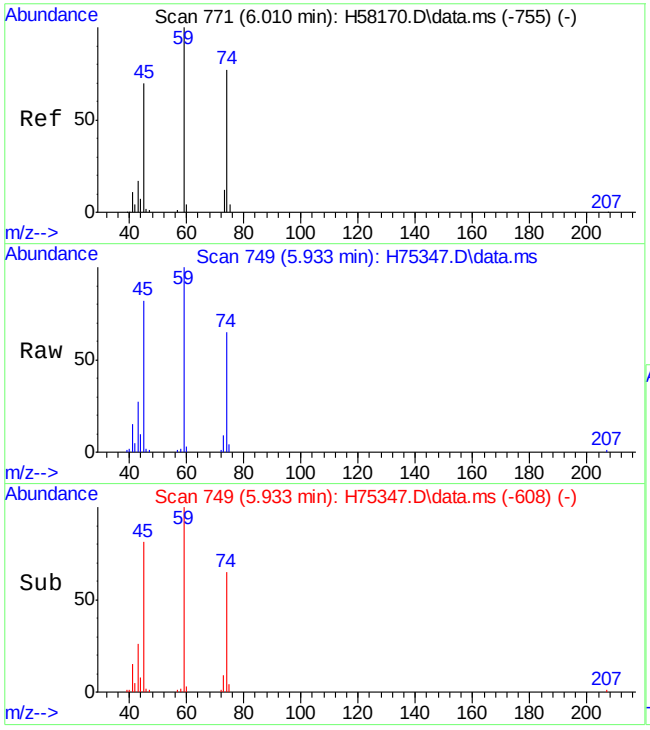


#15
acetone
Concen: 43.54 ug/L m
RT: 5.823 min Scan# 718
Delta R.T. -0.014 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 58 Resp: 8301

Ion	Ratio	Lower	Upper
58	100		
43	299.9	270.8	330.8

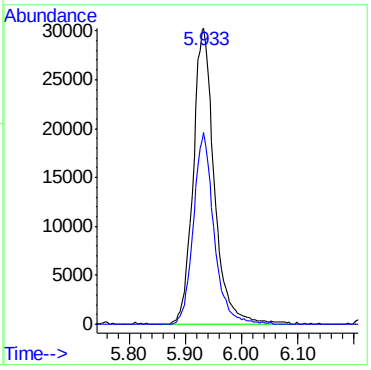


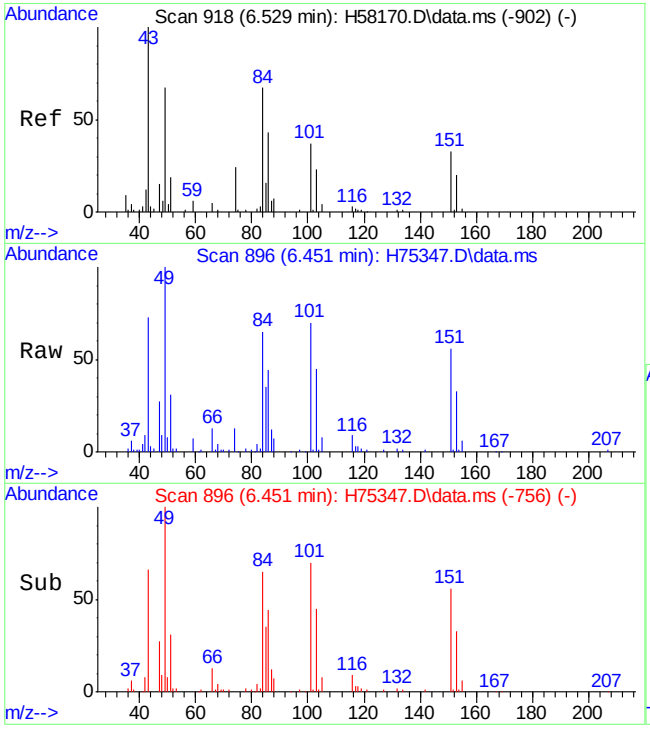


#16
ethyl ether
Concen: 51.80 ug/L
RT: 5.933 min Scan# 749
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 59 Resp: 79621

Ion	Ratio	Lower	Upper
59	100		
74	64.6	45.0	105.0

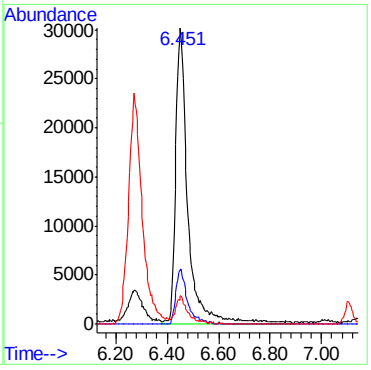




#17
methyl acetate
Concen: 57.14 ug/L
RT: 6.451 min Scan# 896
Delta R.T. -0.007 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 100050

Ion	Ratio	Lower	Upper
43	100		
74	18.1	5.4	45.4
59	9.7	0.0	33.3



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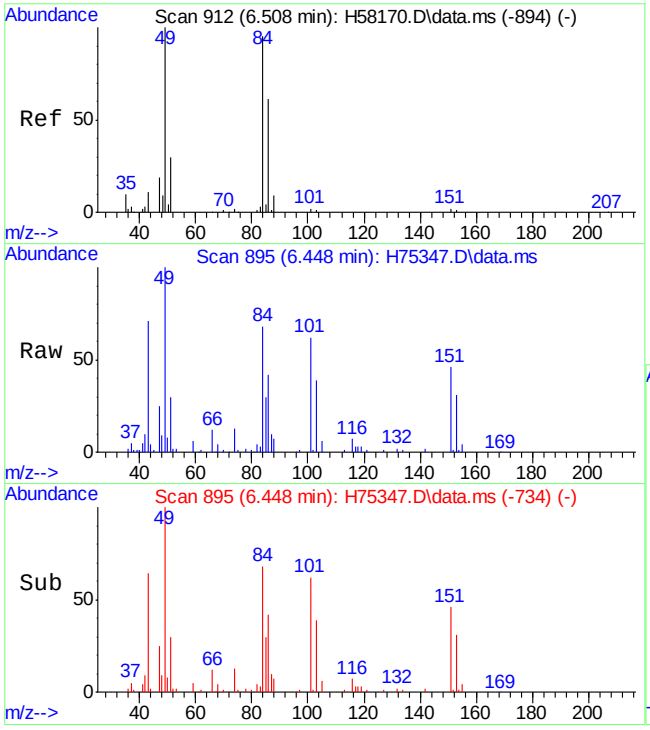
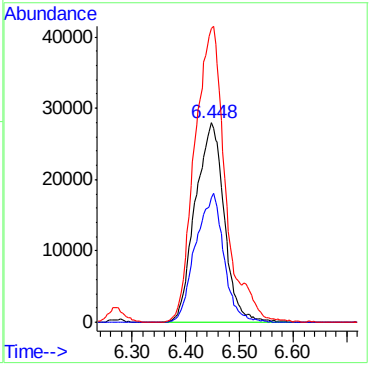
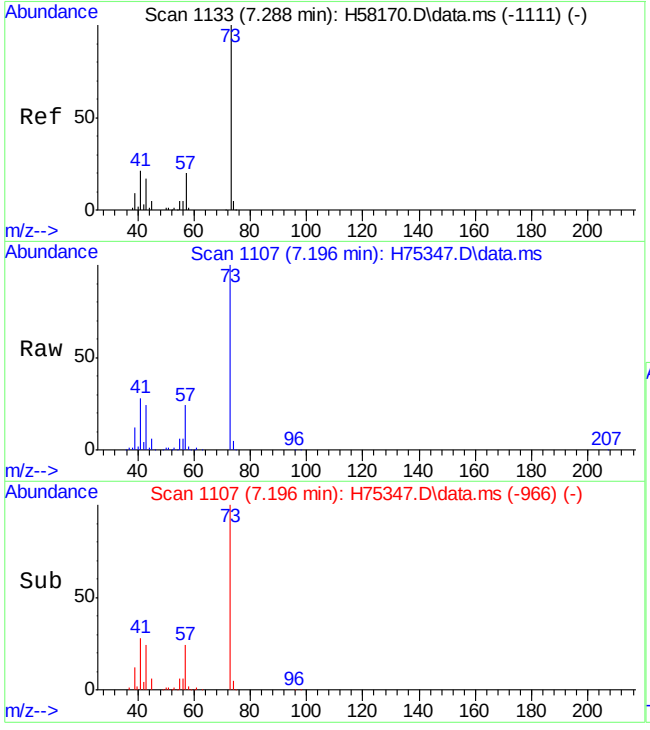


#18
methylene chloride
Concen: 53.66 ug/L
RT: 6.448 min Scan# 895
Delta R.T. 0.007 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 84 Resp: 104516

Ion	Ratio	Lower	Upper
84	100		
86	62.4	28.8	88.8
49	147.6	77.5	137.5#

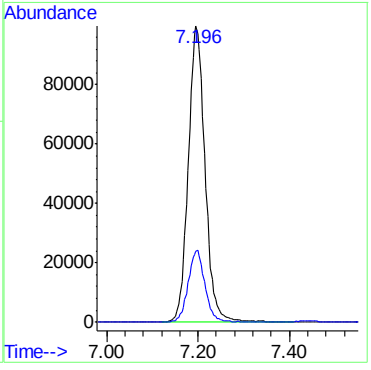


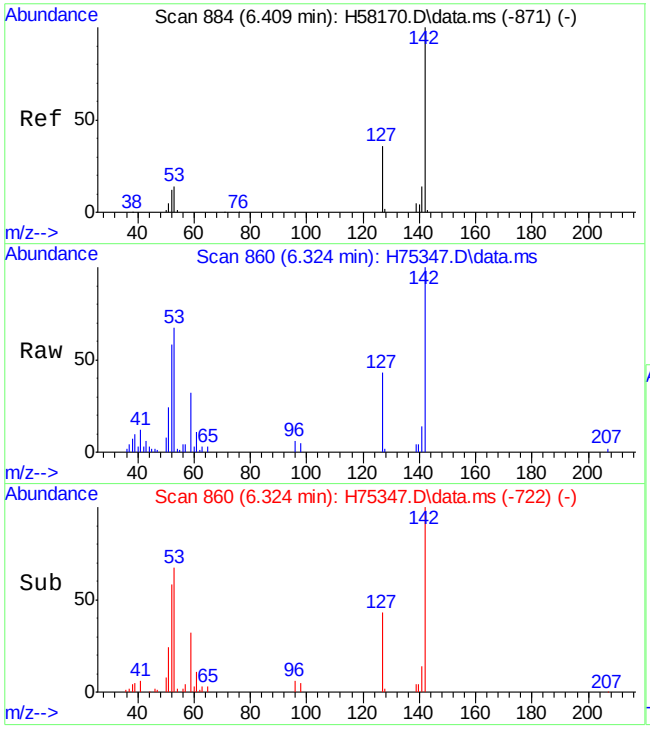


#19
methyl tert butyl ether
Concen: 53.05 ug/L
RT: 7.196 min Scan# 1107
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 73 Resp: 253920

Ion	Ratio	Lower	Upper
73	100		
57	23.9	0.0	48.6

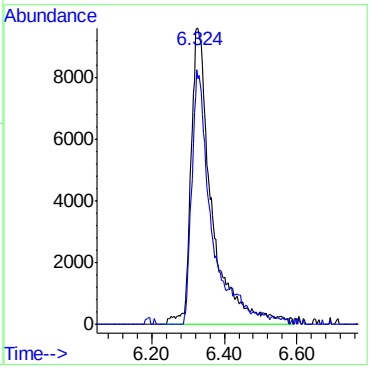


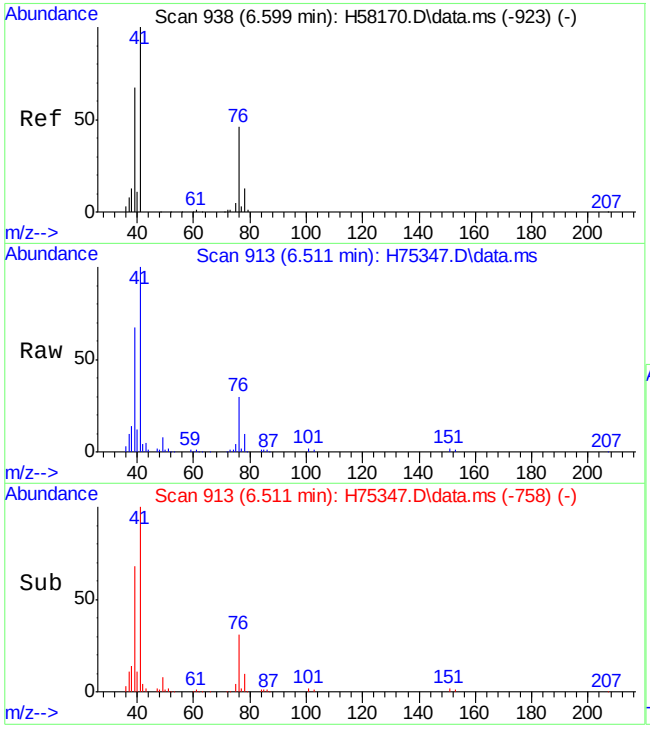


#20
acrylonitrile
Concen: 54.42 ug/L
RT: 6.324 min Scan# 860
Delta R.T. -0.014 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 53 Resp: 38311

Ion	Ratio	Lower	Upper
53	100		
52	86.0	54.8	114.8

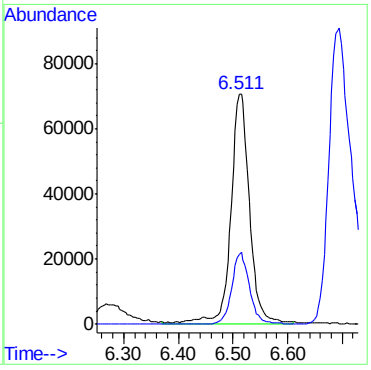




#21
allyl chloride
Concen: 52.97 ug/L m
RT: 6.511 min Scan# 913
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 41 Resp: 168389

Ion	Ratio	Lower	Upper
41	100		
76	30.4	7.8	67.8



7.4.1

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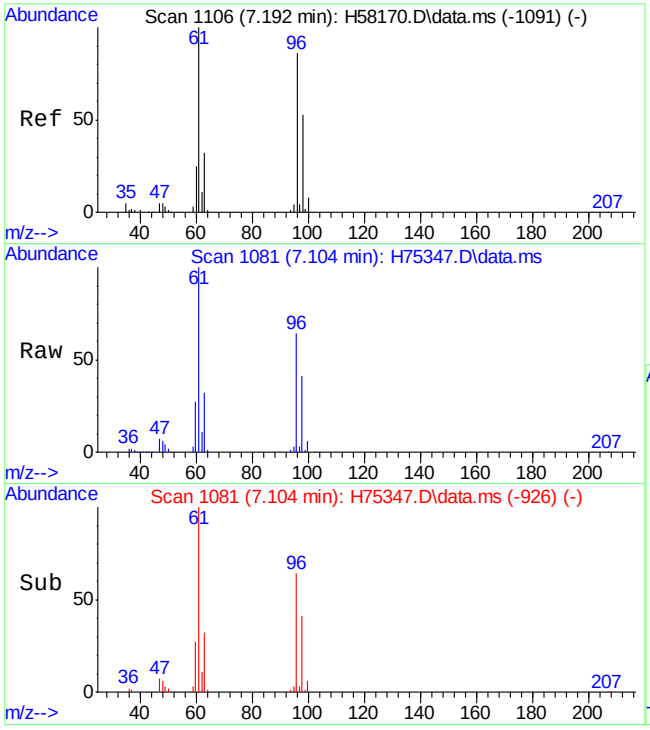
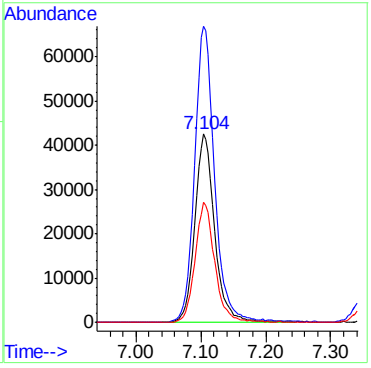
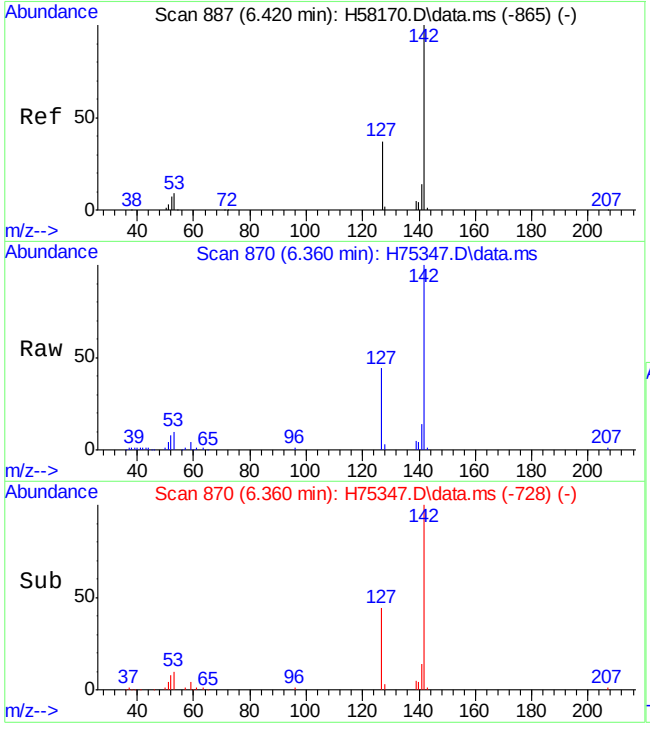


#22
trans-1,2-dichloroethene
Concen: 53.21 ug/L
RT: 7.104 min Scan# 1081
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 96 Resp: 91273

Ion	Ratio	Lower	Upper
96	100		
61	157.2	99.9	159.9
98	63.9	34.7	94.7

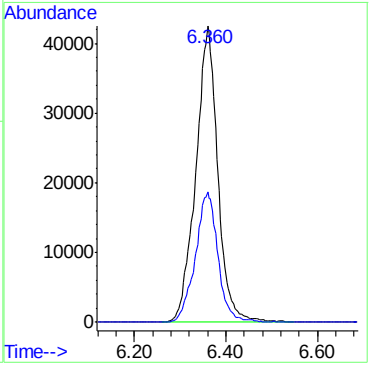




#23
iodomethane
Concen: 51.40 ug/L
RT: 6.360 min Scan# 870
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:142 Resp: 141710

Ion	Ratio	Lower	Upper
142	100		
127	43.9	20.4	80.4



7.4.1

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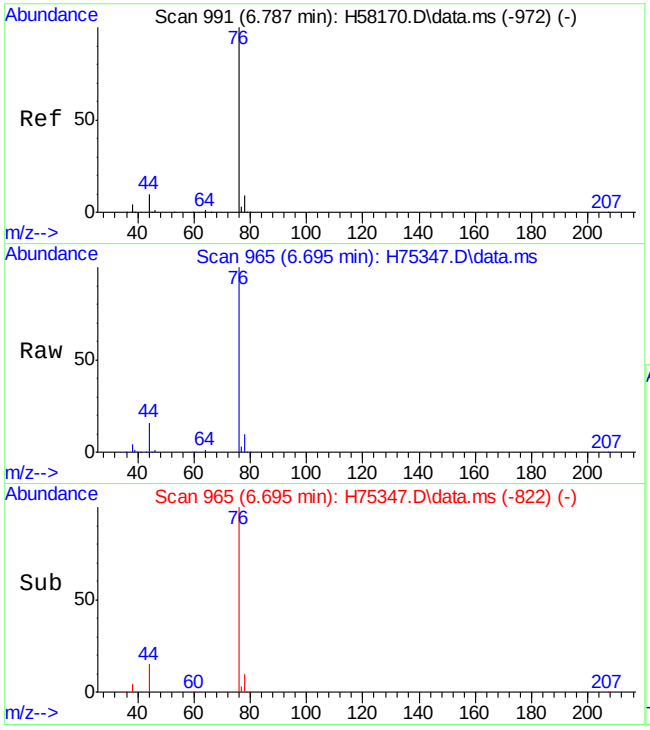
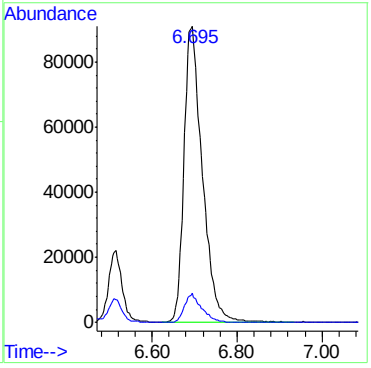
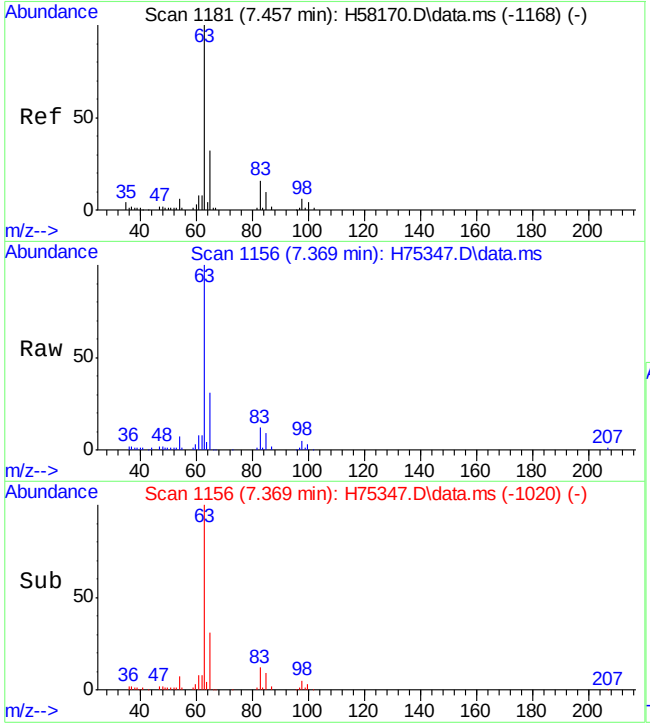


#24
carbon disulfide
Concen: 48.69 ug/L
RT: 6.695 min Scan# 965
Delta R.T. 0.004 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 76 Resp: 274047

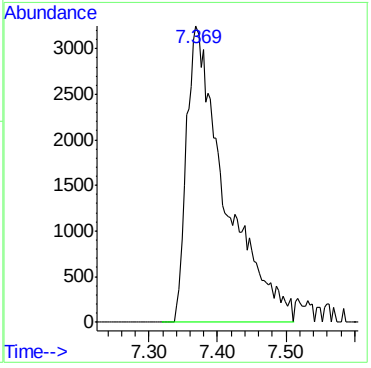
Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	40.1





#25
propionitrile
Concen: 49.72 ug/L
RT: 7.369 min Scan# 1156
Delta R.T. -0.020 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 54 Resp: 12751



7.4.1

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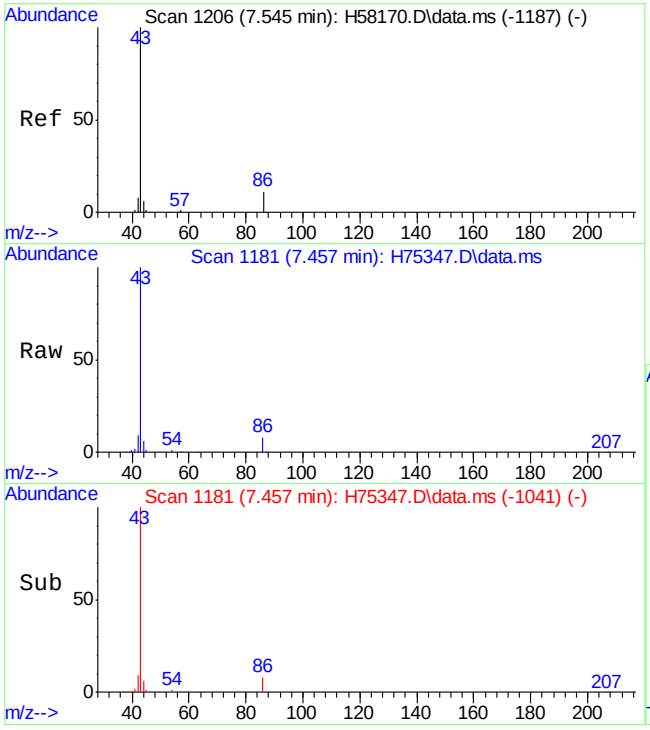
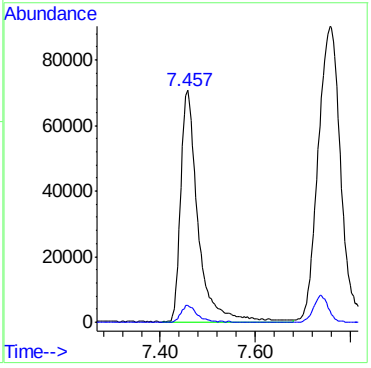
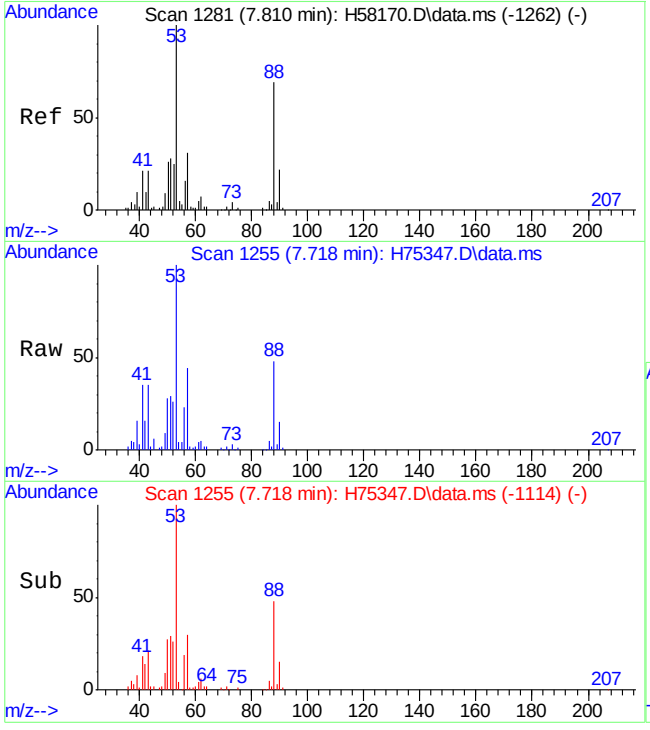


#26
vinyl acetate
Concen: 52.64 ug/L
RT: 7.457 min Scan# 1181
Delta R.T. -0.007 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 177746

Ion	Ratio	Lower	Upper
43	100		
86	7.5	0.0	39.7

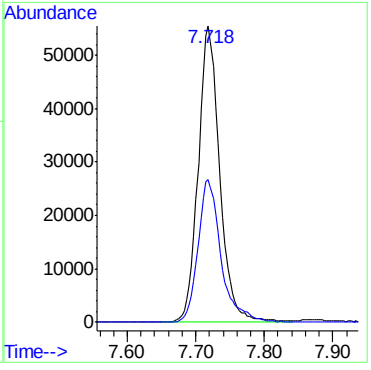


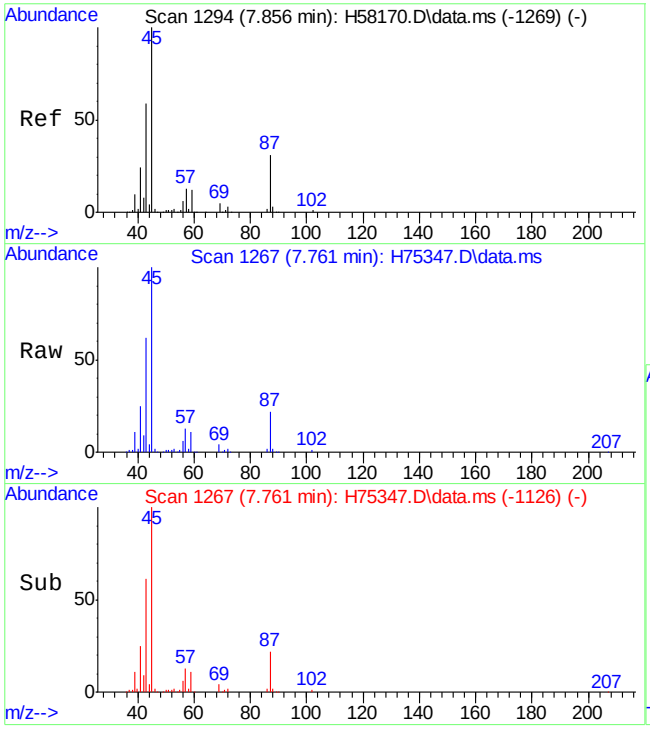


#27
chloroprene
Concen: 40.70 ug/L
RT: 7.718 min Scan# 1255
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 53 Resp: 120669

Ion	Ratio	Lower	Upper
53	100		
88	48.0	19.0	79.0

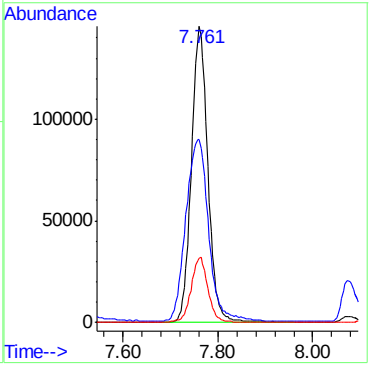


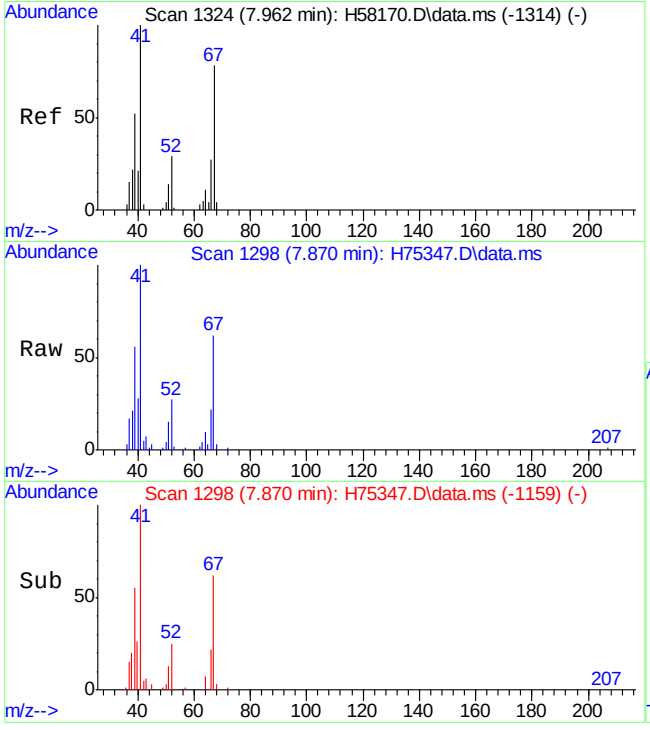


#28
di-isopropyl ether
Concen: 55.18 ug/L
RT: 7.761 min Scan# 1267
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 45 Resp: 348742

Ion	Ratio	Lower	Upper
45	100		
43	61.2	39.0	99.0
87	21.6	2.5	62.5

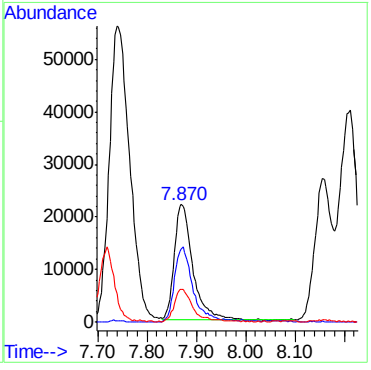


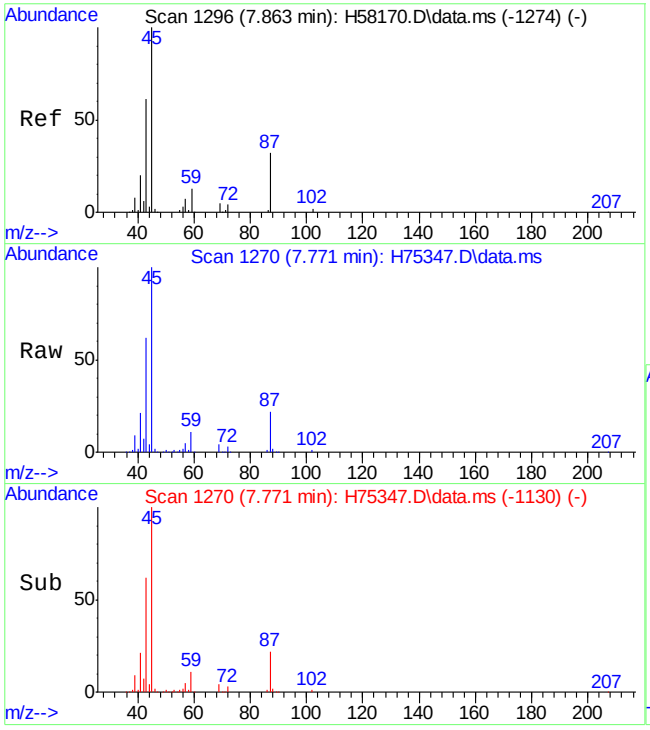


#29
methacrylonitrile
Concen: 47.55 ug/L
RT: 7.870 min Scan# 1298
Delta R.T. -0.010 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 41 Resp: 57756

Ion	Ratio	Lower	Upper
41	100		
67	62.9	28.1	88.1
52	27.9	0.0	59.4

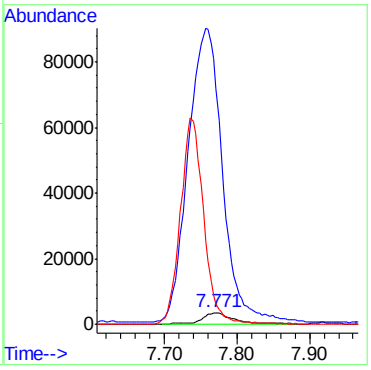


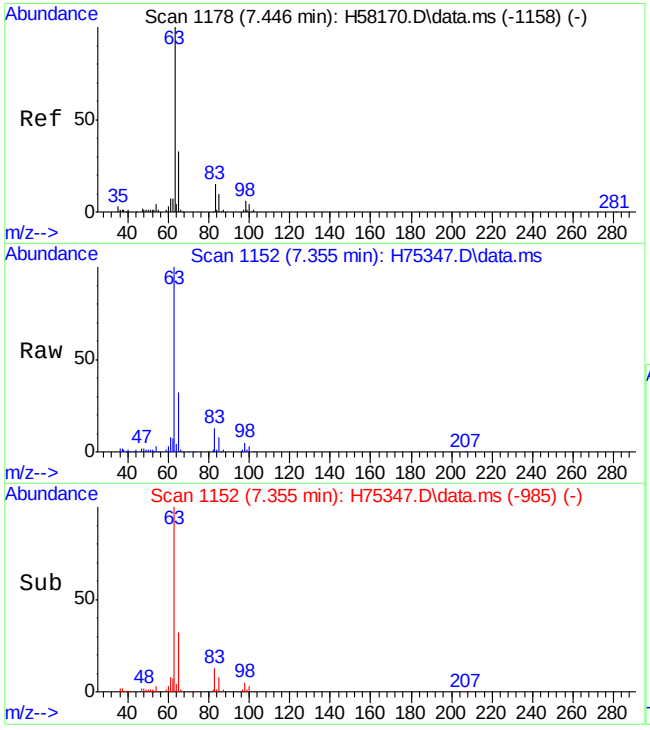


#30
2-butanone
Concen: 51.04 ug/L
RT: 7.771 min Scan# 1270
Delta R.T. -0.007 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 72 Resp: 10971

Ion	Ratio	Lower	Upper
72	100		
43	1957.6	1755.5	1815.5#
57	164.3	164.5	224.5#

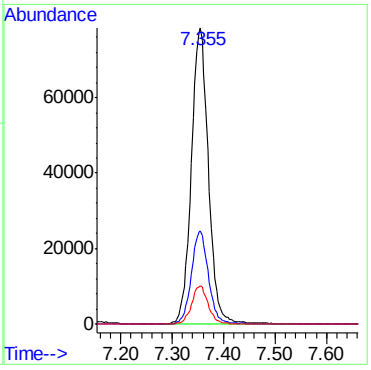




#31
1,1-dichloroethane
Concen: 51.76 ug/L
RT: 7.355 min Scan# 1152
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 63 Resp: 181651

Ion	Ratio	Lower	Upper
63	100		
65	31.5	2.1	62.1
83	12.8	0.0	47.3



7.4.1

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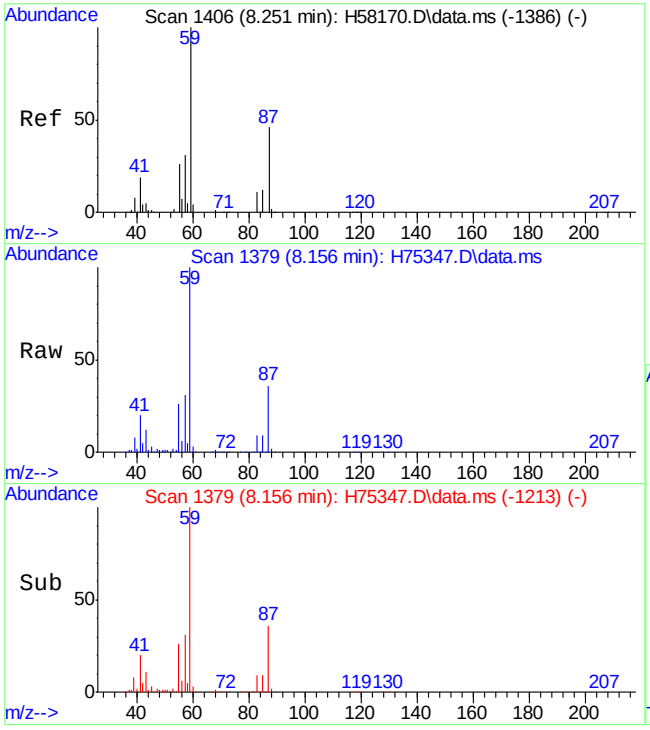
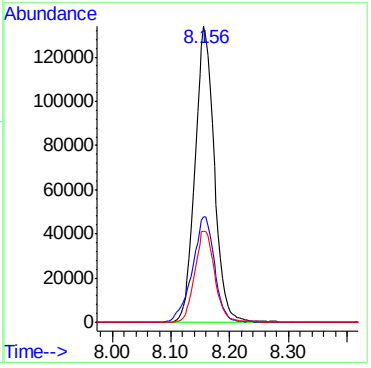
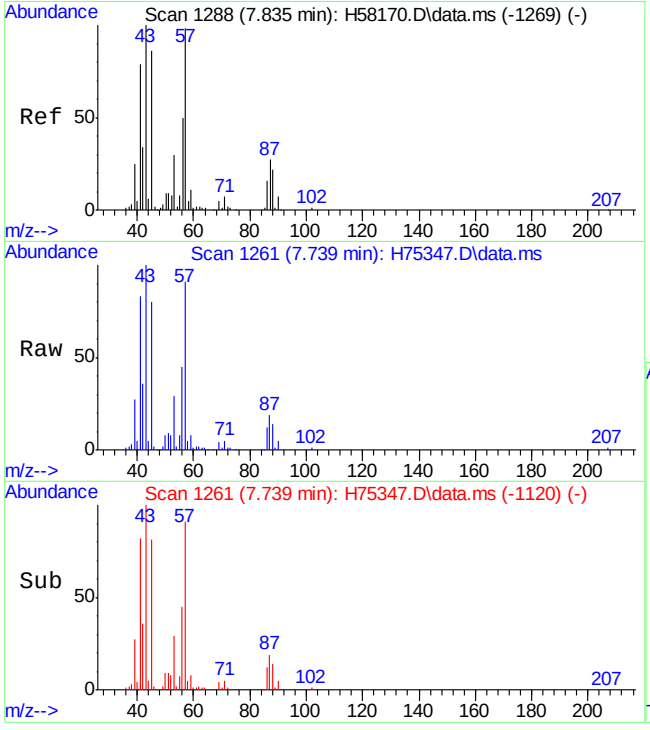


#32
tert-butyl ethyl ether
Concen: 51.77 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 59 Resp: 304319

Ion	Ratio	Lower	Upper
59	100		
87	35.6	13.5	73.5
57	30.9	0.0	58.1

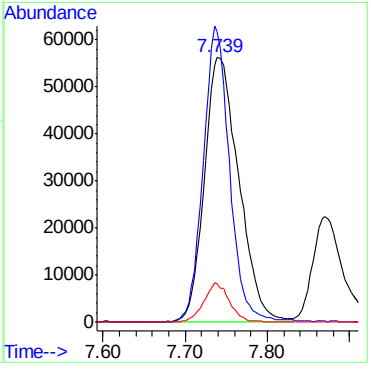


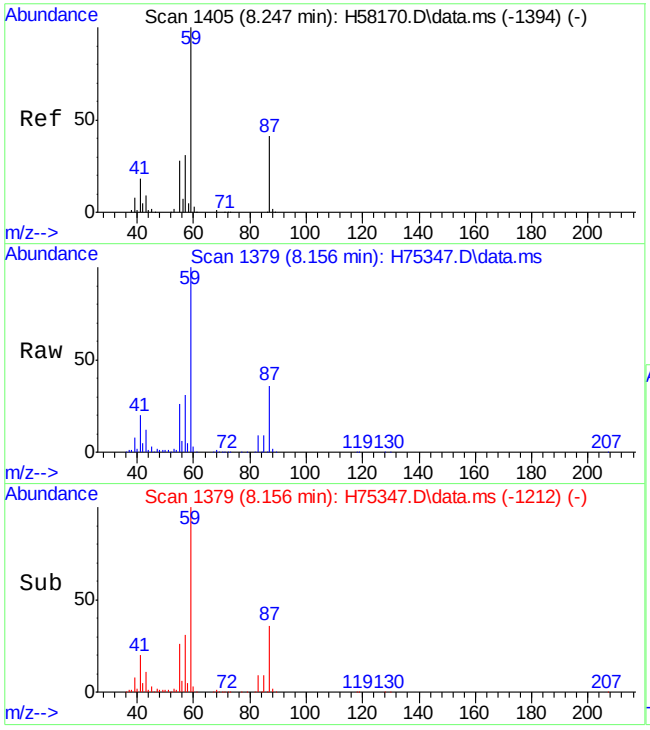


#33
Hexane
Concen: 50.78 ug/L
RT: 7.739 min Scan# 1261
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 41 Resp: 163765

Ion	Ratio	Lower	Upper
41	100		
57	86.0	60.5	90.7
86	10.9	10.4	15.6

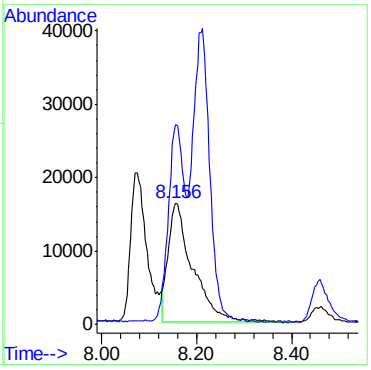


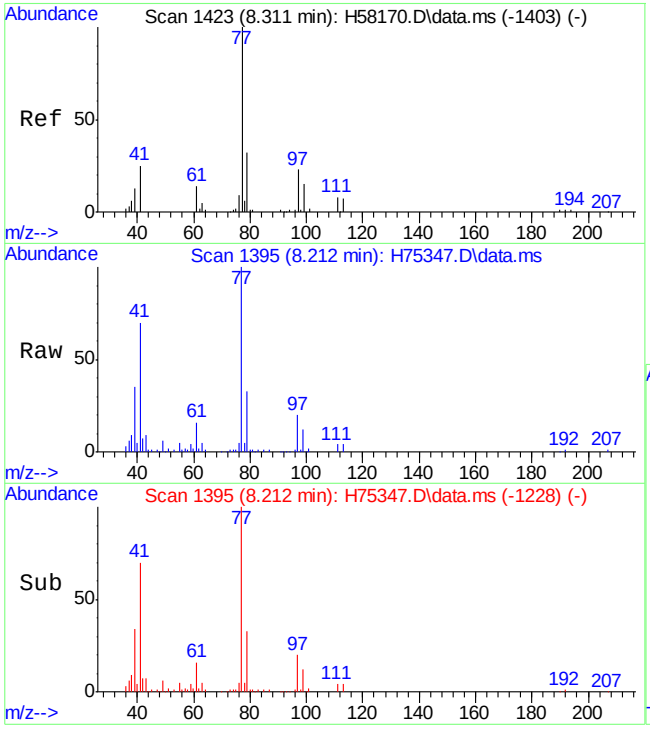


#34
isobutyl alcohol
Concen: 388.82 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.002 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 58962

Ion	Ratio	Lower	Upper
43	100		
41	165.4	115.6	175.6

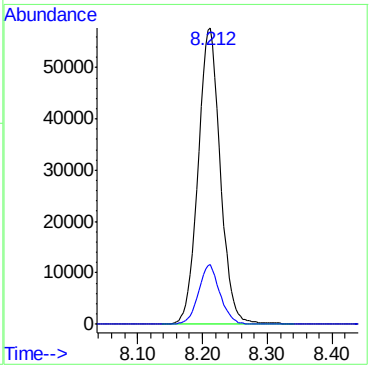


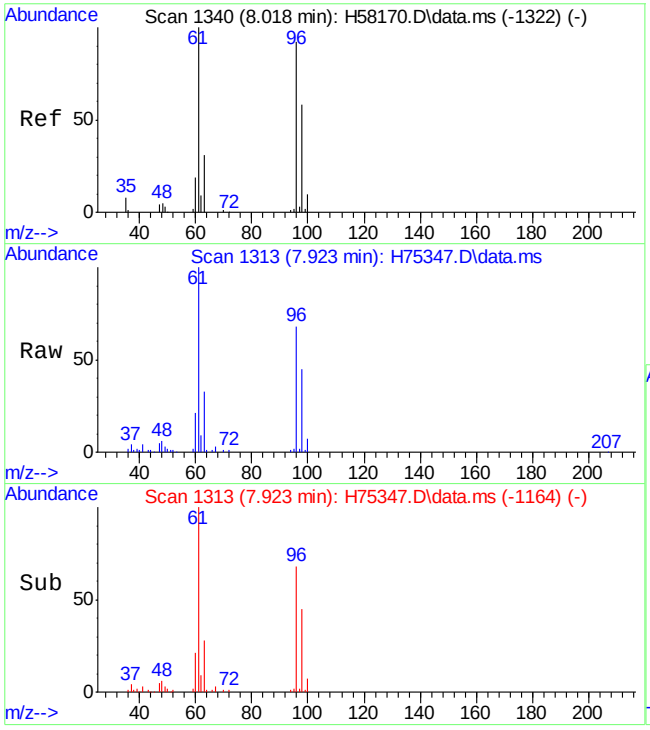


#35
2,2-dichloropropane
Concen: 53.21 ug/L
RT: 8.212 min Scan# 1395
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 77 Resp: 137438

Ion	Ratio	Lower	Upper
77	100		
97	20.2	0.0	51.6

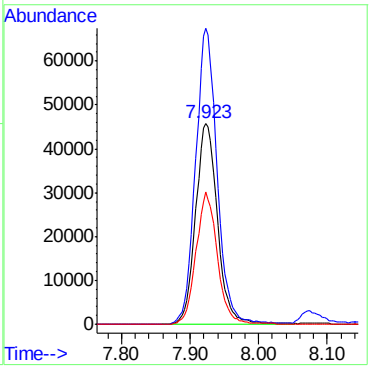


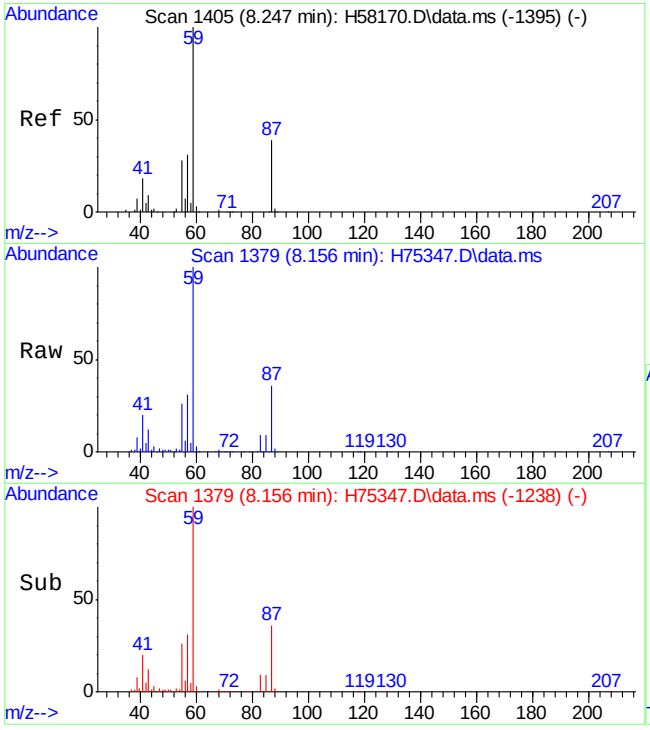


#36
cis-1,2-dichloroethene
Concen: 53.90 ug/L
RT: 7.923 min Scan# 1313
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 96 Resp: 101661

Ion	Ratio	Lower	Upper
96	100		
61	147.3	90.6	150.6
98	65.8	35.0	95.0

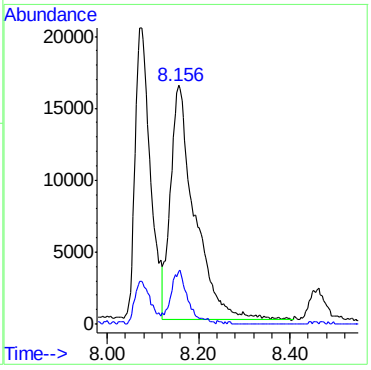


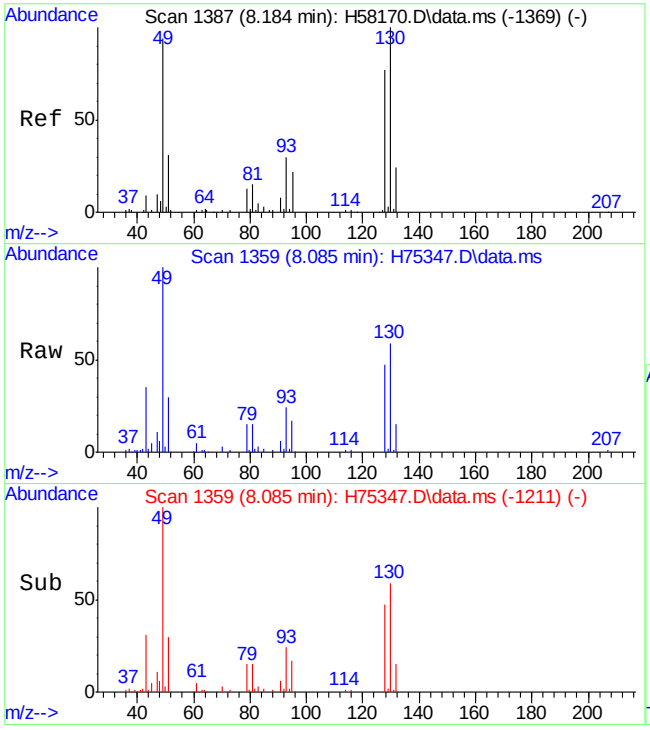


#37
ethyl acetate
Concen: 78.95 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.002 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 60188

Ion	Ratio	Lower	Upper
43	100		
45	22.4	0.0	51.5

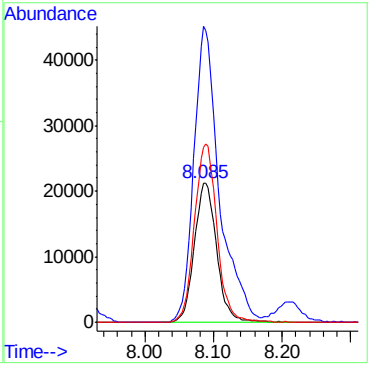


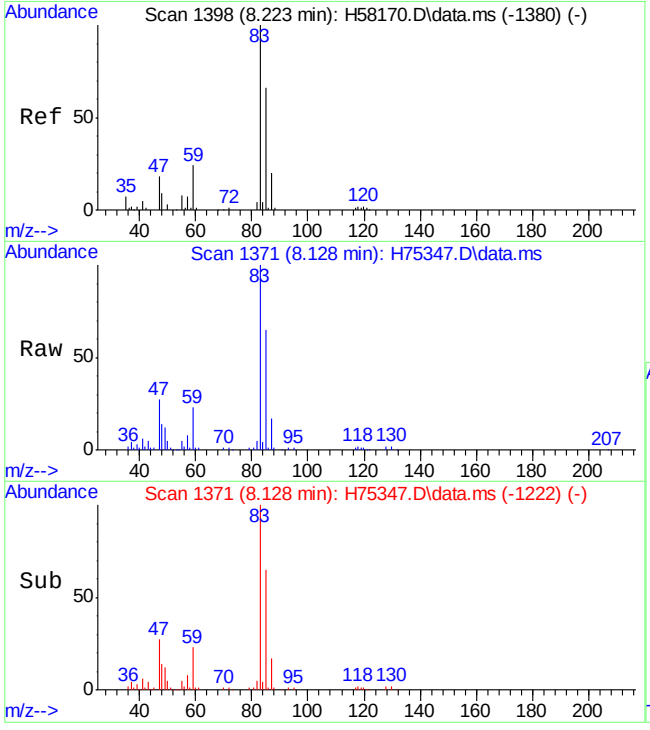


#38
bromochloromethane
Concen: 52.02 ug/L
RT: 8.085 min Scan# 1359
Delta R.T. -0.007 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:128 Resp: 47871

Ion	Ratio	Lower	Upper
128	100		
49	212.1	72.6	132.6#
130	125.2	102.2	162.2

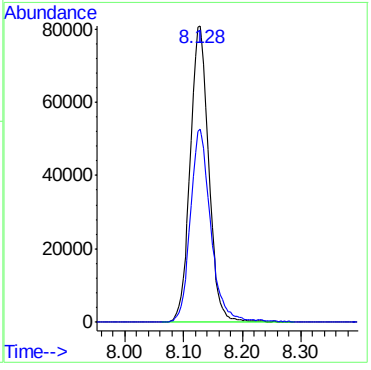


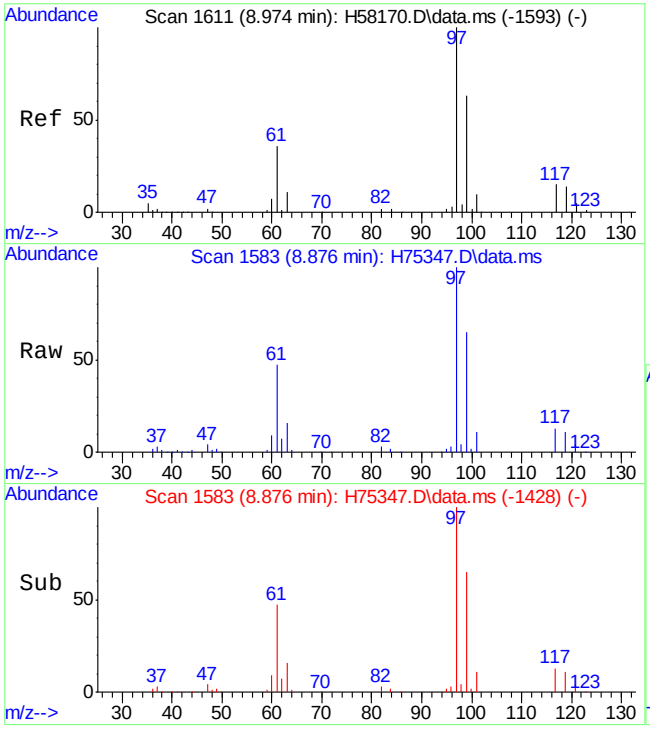


#39
chloroform
Concen: 52.41 ug/L
RT: 8.128 min Scan# 1371
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 83 Resp: 176767

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.0	95.0

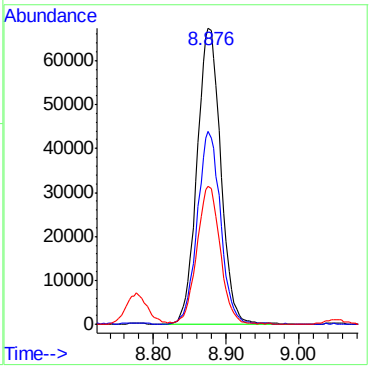


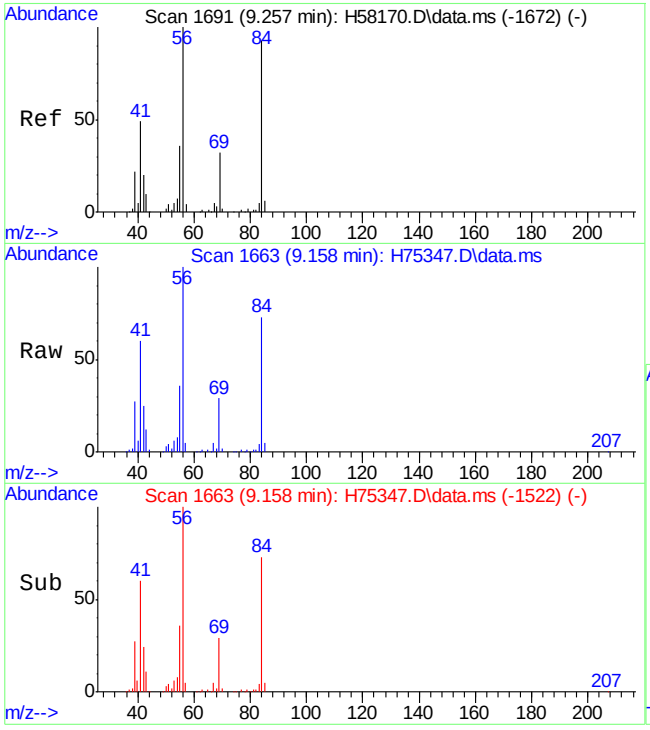


#41
1,1,1-trichloroethane
Concen: 56.74 ug/L
RT: 8.876 min Scan# 1583
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 97 Resp: 152330

Ion	Ratio	Lower	Upper
97	100		
99	65.1	32.9	92.9
61	46.6	5.4	65.4

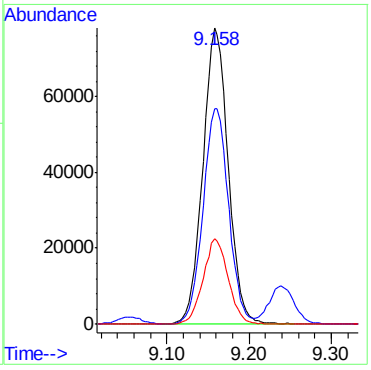




#43
cyclohexane
Concen: 50.08 ug/L
RT: 9.158 min Scan# 1663
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 56 Resp: 167108

Ion	Ratio	Lower	Upper
56	100		
84	72.9	81.1	121.1#
69	28.7	13.4	53.4



7.4.1

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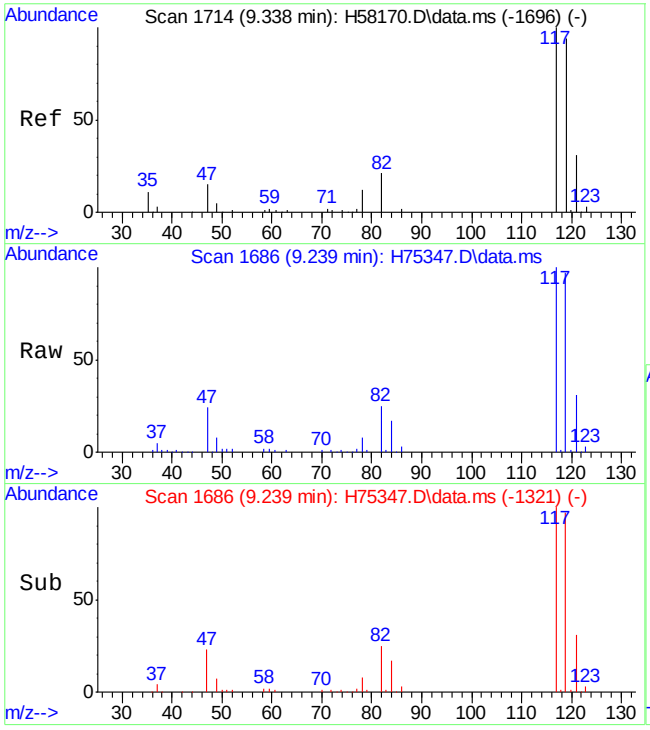
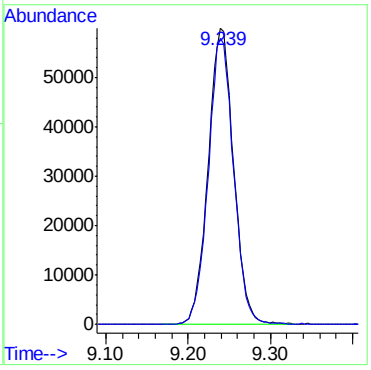
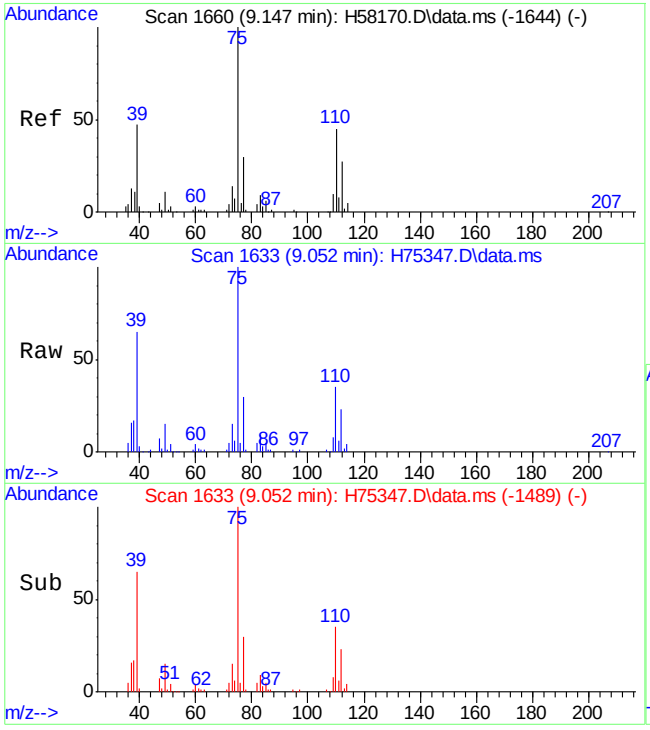


#44
carbon tetrachloride
Concen: 58.30 ug/L
RT: 9.239 min Scan# 1686
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:117 Resp: 128604

Ion	Ratio	Lower	Upper
117	100		
119	96.7	69.0	129.0

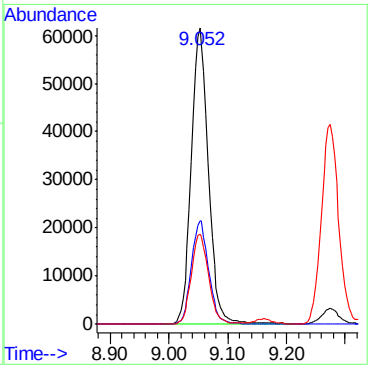




#45
1,1-dichloropropene
Concen: 51.15 ug/L
RT: 9.052 min Scan# 1633
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 75 Resp: 124456

Ion	Ratio	Lower	Upper
75	100		
110	34.9	12.6	72.6
77	30.4	1.8	61.8



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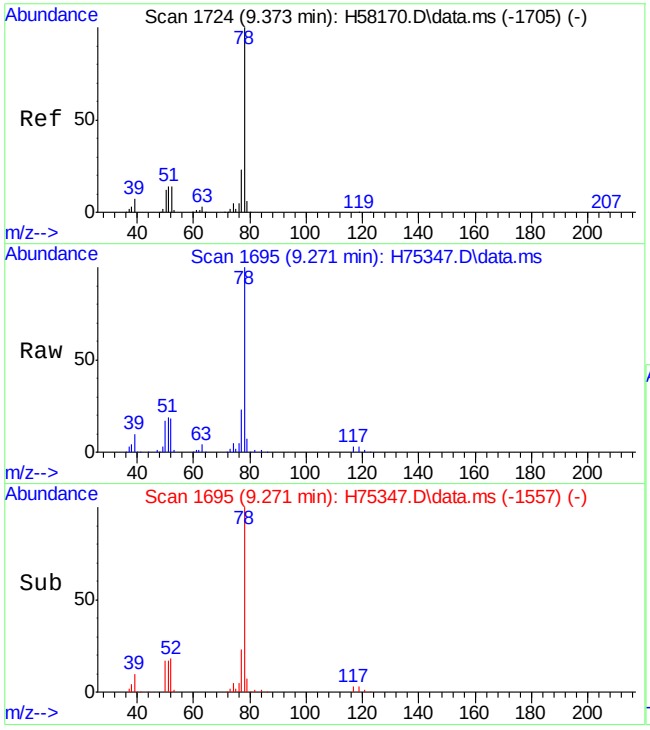
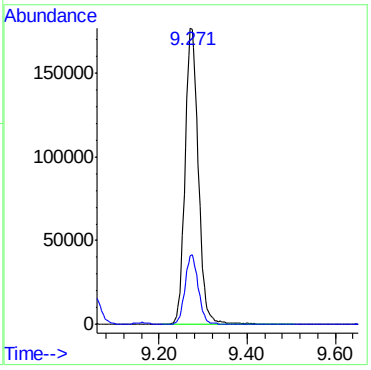
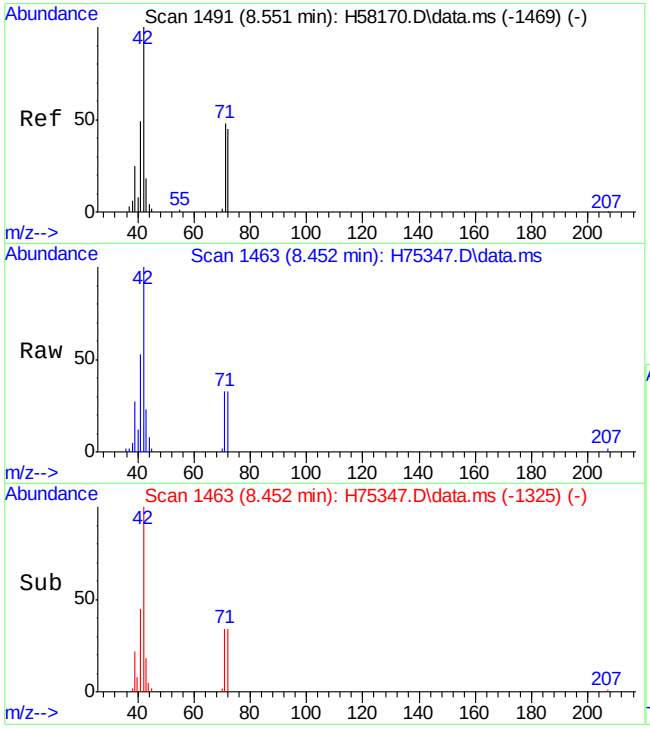


#46
benzene
Concen: 51.52 ug/L
RT: 9.271 min Scan# 1695
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 78 Resp: 368834

Ion	Ratio	Lower	Upper
78	100		
77	23.1	0.0	53.5

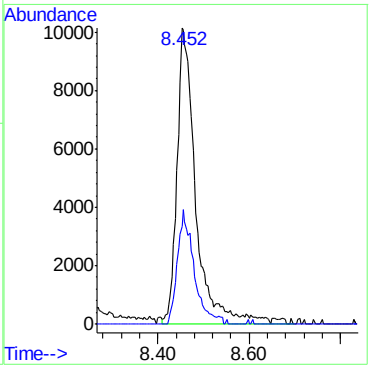


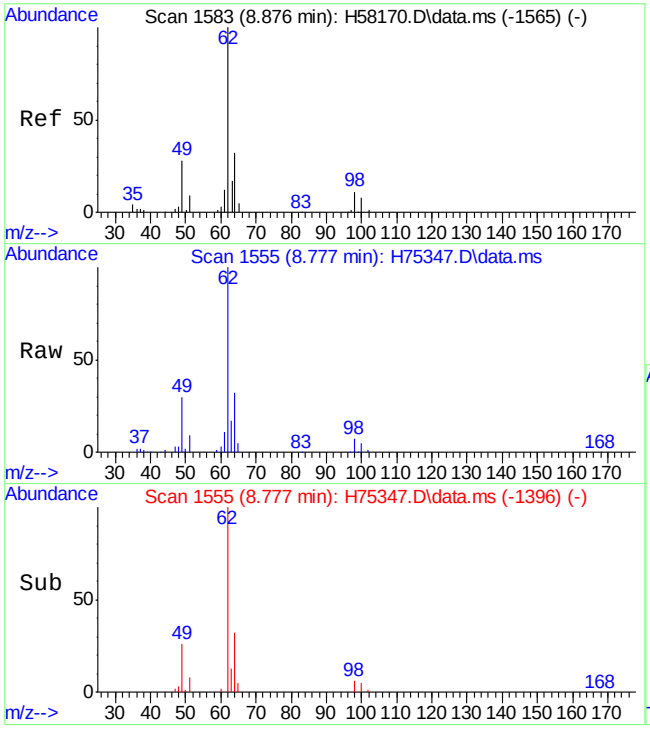


#47
tetrahydrofuran
Concen: 49.18 ug/L
RT: 8.452 min Scan# 1463
Delta R.T. -0.014 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 42 Resp: 29321

Ion	Ratio	Lower	Upper
42	100		
72	33.1	12.6	72.6

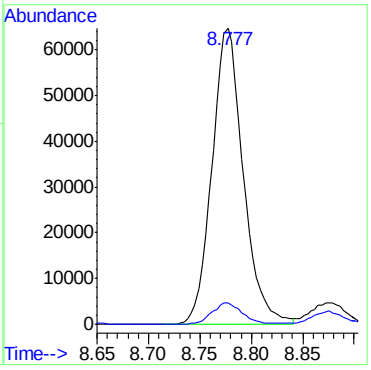


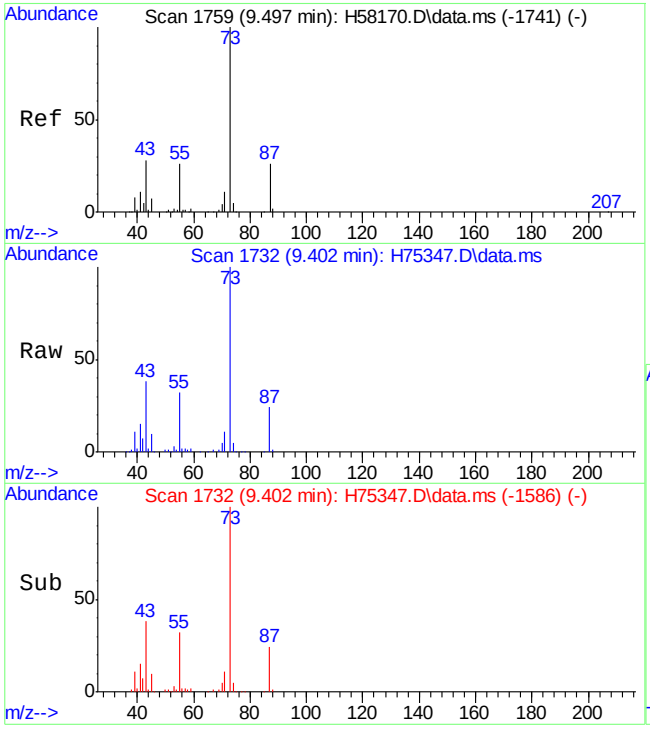


#48
1,2-dichloroethane
Concen: 51.30 ug/L
RT: 8.777 min Scan# 1555
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 62 Resp: 136994

Ion	Ratio	Lower	Upper
62	100		
98	7.2	0.0	37.4

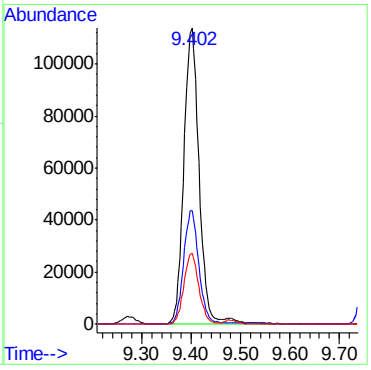




#49
tert-amyl methyl ether
Concen: 50.40 ug/L
RT: 9.402 min Scan# 1732
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 73 Resp: 245220

Ion	Ratio	Lower	Upper
73	100		
43	38.4	3.8	63.8
87	23.9	0.0	59.9



7.4.1

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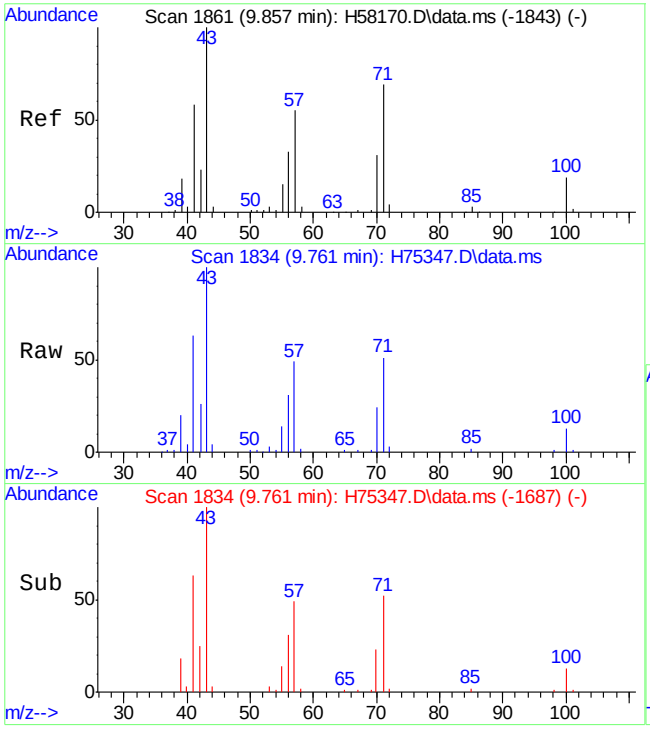
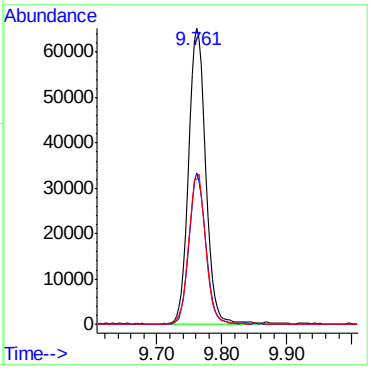
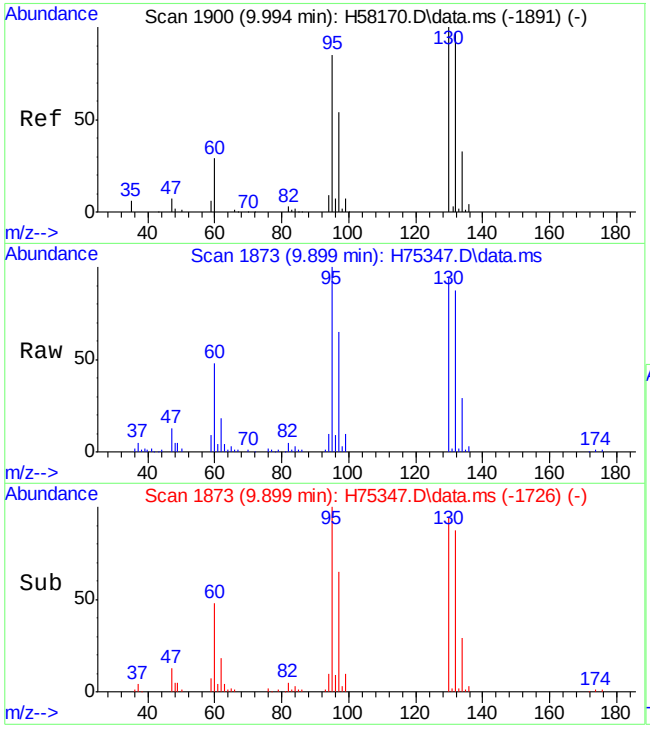


#50
heptane
Concen: 48.90 ug/L
RT: 9.761 min Scan# 1834
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 123231

Ion	Ratio	Lower	Upper
43	100		
71	51.3	31.4	91.4
57	48.9	21.5	81.5

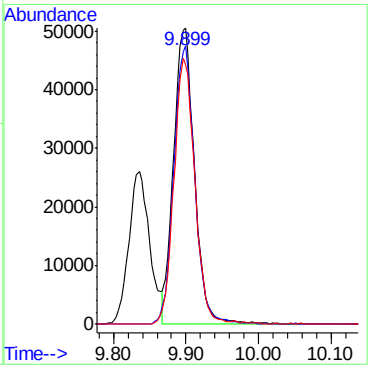




#51
trichloroethene
Concen: 53.75 ug/L
RT: 9.899 min Scan# 1873
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 95 Resp: 100826

Ion	Ratio	Lower	Upper
95	100		
130	94.0	83.0	143.0
132	87.4	82.2	142.2



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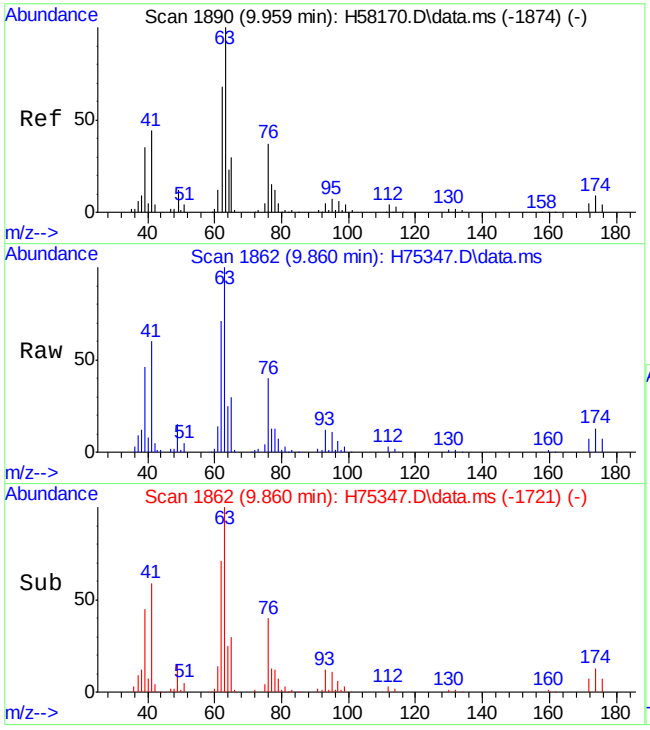
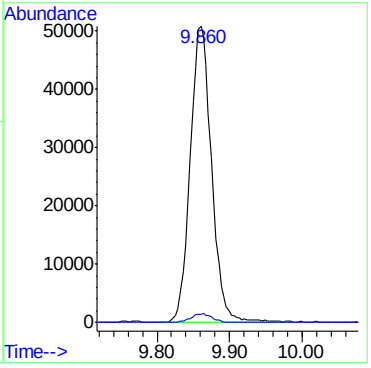
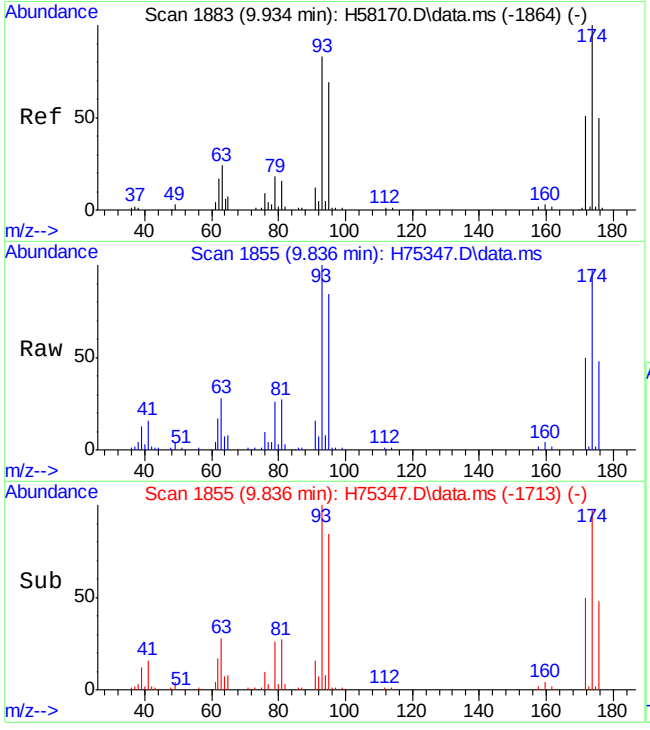


#52
1,2-dichloropropane
Concen: 52.19 ug/L
RT: 9.860 min Scan# 1862
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 63 Resp: 103771

Ion	Ratio	Lower	Upper
63	100		
112	2.8	0.0	34.6

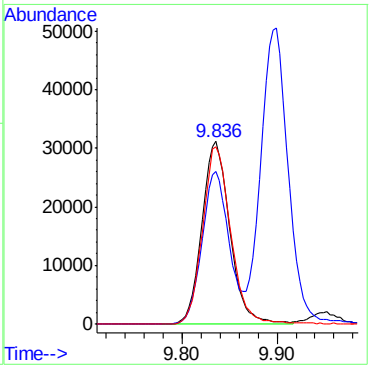




#53
dibromomethane
Concen: 53.14 ug/L
RT: 9.836 min Scan# 1855
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 93 Resp: 63344

Ion	Ratio	Lower	Upper
93	100		
95	83.8	52.2	112.2
174	97.3	76.7	136.7



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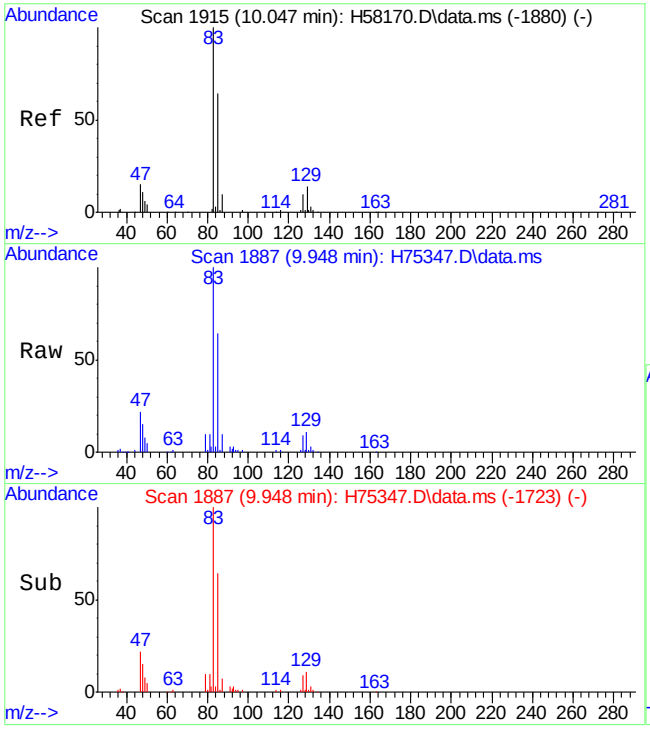
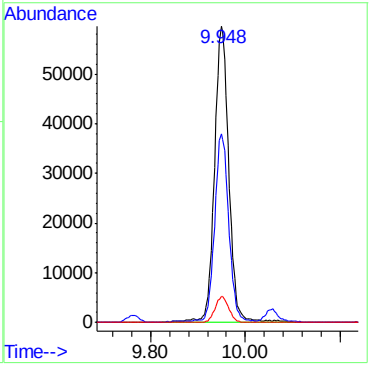
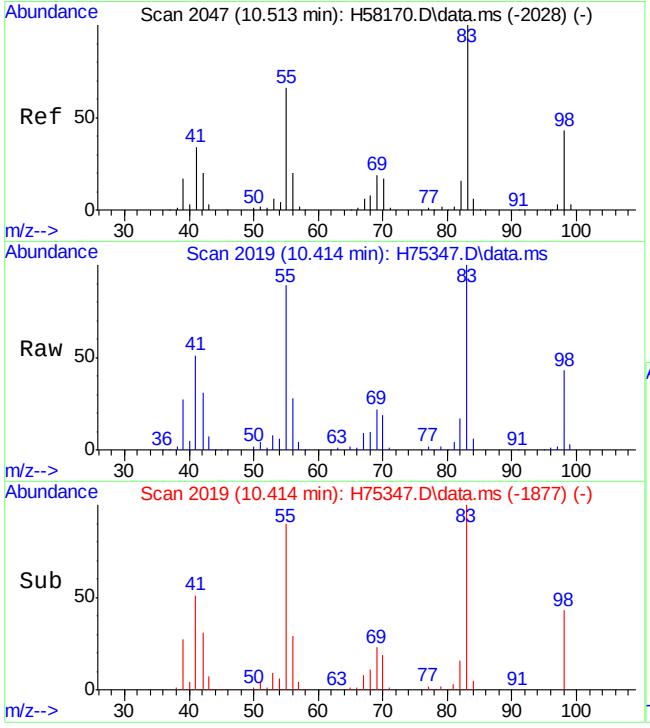


#54
bromodichloromethane
Concen: 52.18 ug/L
RT: 9.948 min Scan# 1887
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 83 Resp: 124531

Ion	Ratio	Lower	Upper
83	100		
85	63.8	36.5	96.5
127	8.8	0.0	42.2

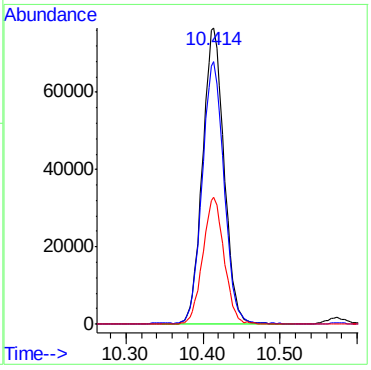




#55
methylcyclohexane
Concen: 48.71 ug/L
RT: 10.414 min Scan# 2019
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 83 Resp: 148401

Ion	Ratio	Lower	Upper
83	100		
55	88.6	51.1	91.1
98	42.7	25.6	65.6



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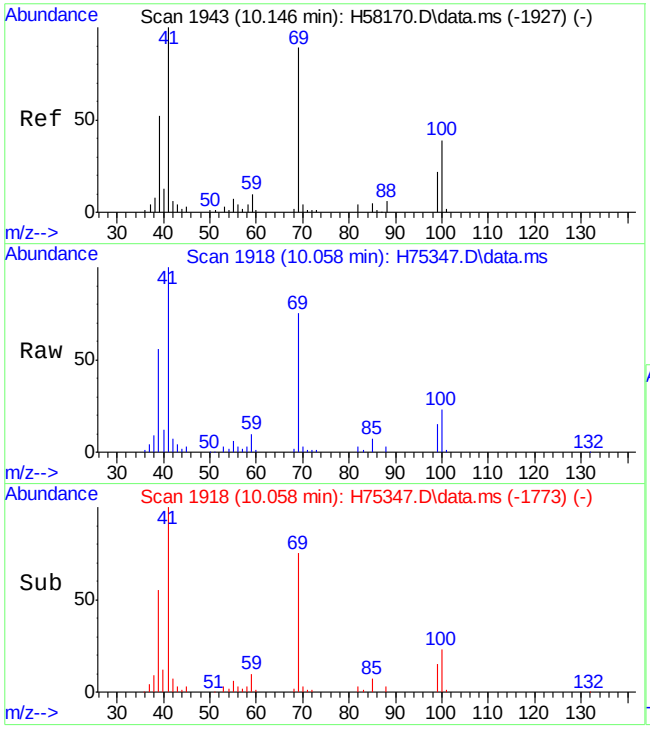
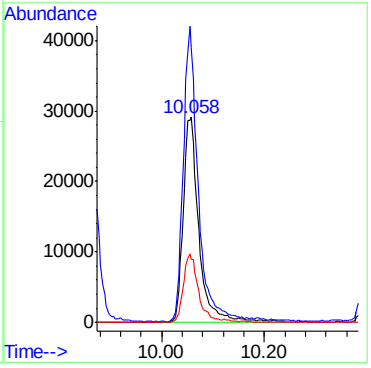
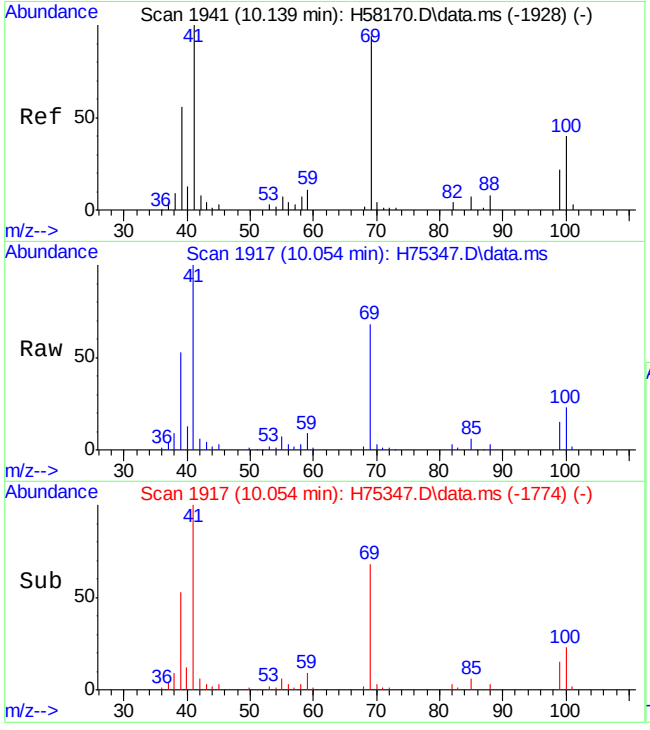


#57
methyl methacrylate
Concen: 49.45 ug/L
RT: 10.058 min Scan# 1918
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 69 Resp: 61541

Ion	Ratio	Lower	Upper
69	100		
41	133.5	108.1	168.1
100	30.6	21.1	81.1

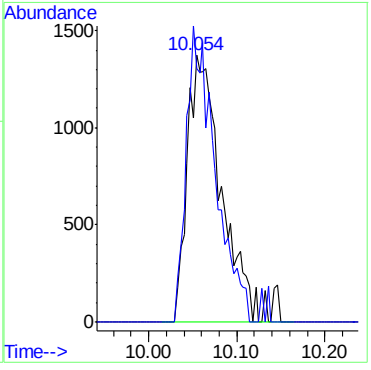


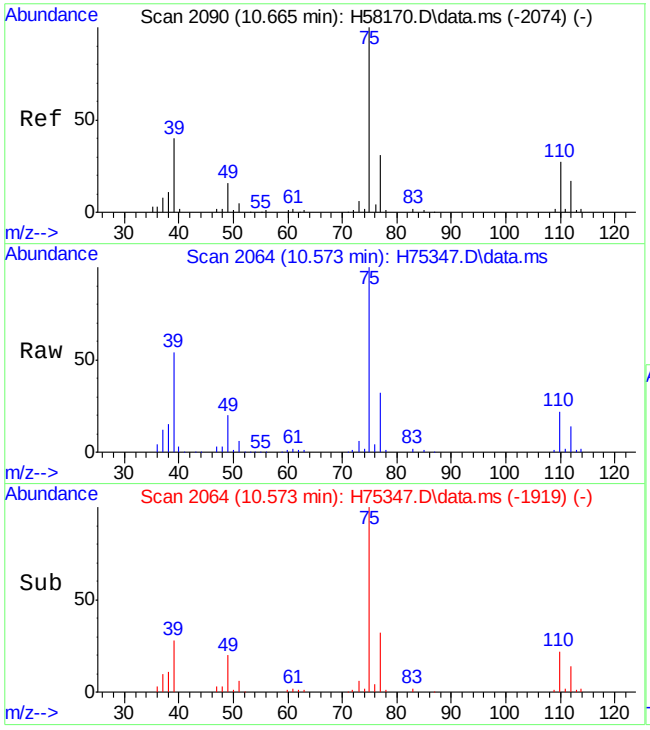


#58
1,4-dioxane
Concen: 223.13 ug/L
RT: 10.054 min Scan# 1917
Delta R.T. -0.006 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 88 Resp: 3761

Ion	Ratio	Lower	Upper
88	100		
58	94.9	60.1	120.1

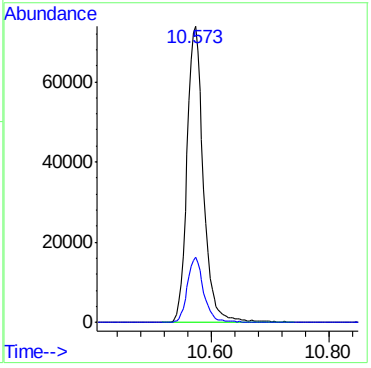


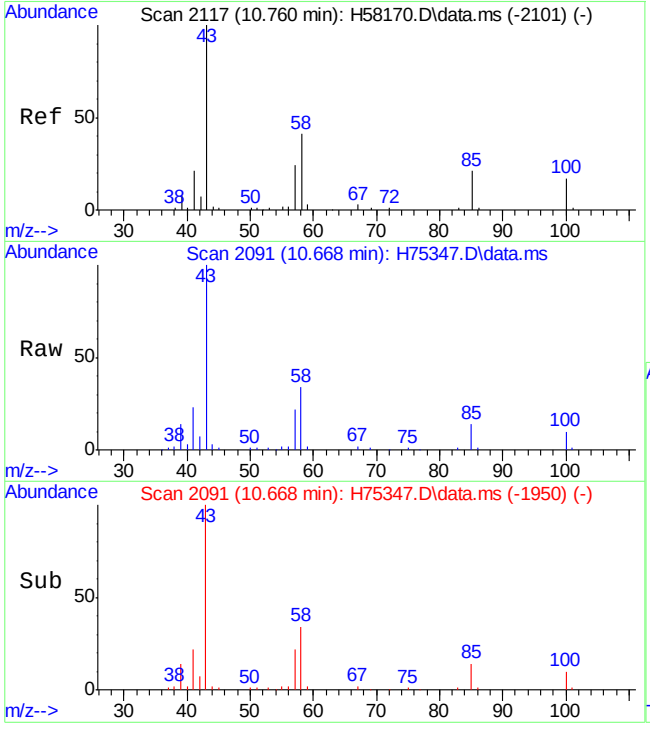


#59
cis-1,3-dichloropropene
Concen: 53.18 ug/L
RT: 10.573 min Scan# 2064
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 75 Resp: 141676

Ion	Ratio	Lower	Upper
75	100		
110	22.1	0.0	57.6

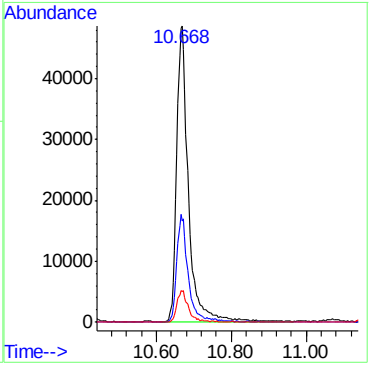




#61
4-methyl-2-pentanone
Concen: 53.25 ug/L
RT: 10.668 min Scan# 2091
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 107483

Ion	Ratio	Lower	Upper
43	100		
58	35.0	8.9	68.9
100	10.2	0.0	46.9



7.4.1

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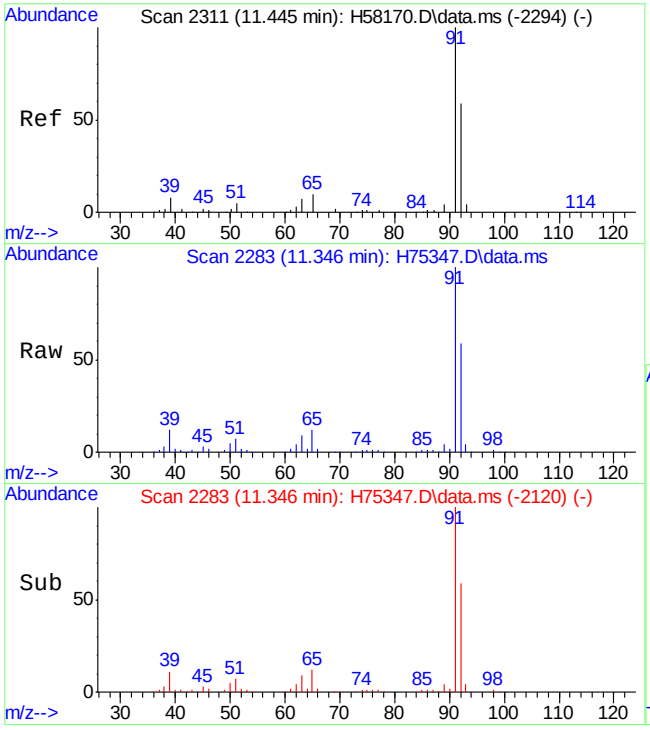
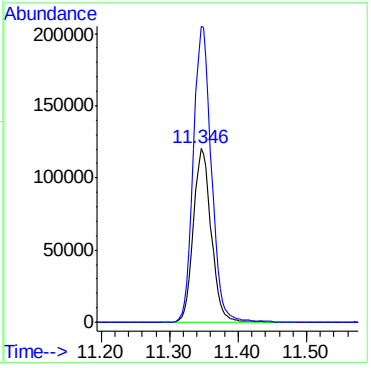
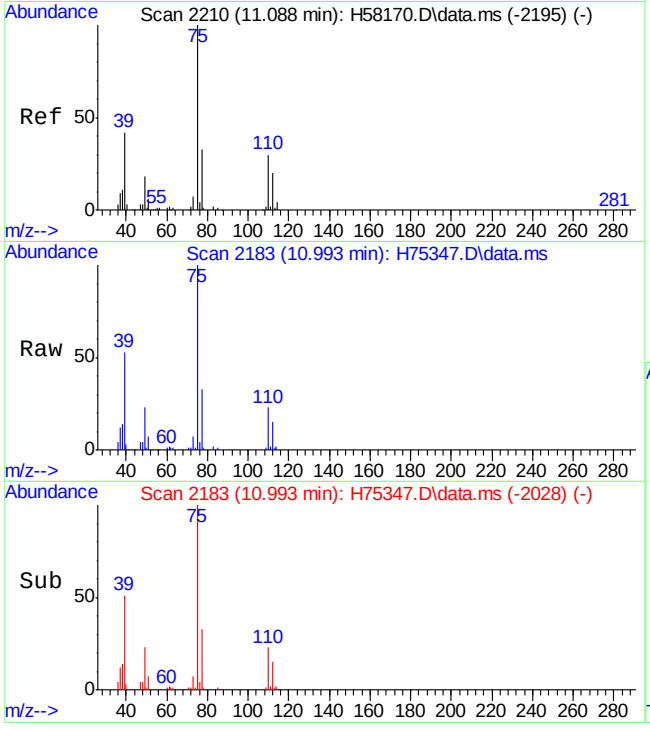


#62
toluene
Concen: 49.96 ug/L
RT: 11.346 min Scan# 2283
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 92 Resp: 218446

Ion	Ratio	Lower	Upper
92	100		
91	169.9	140.4	200.4

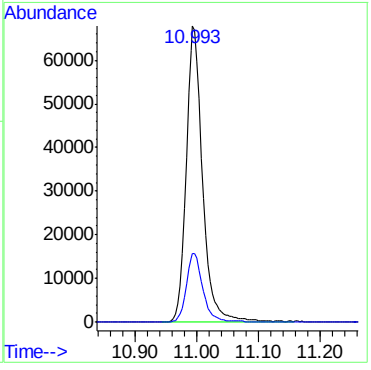


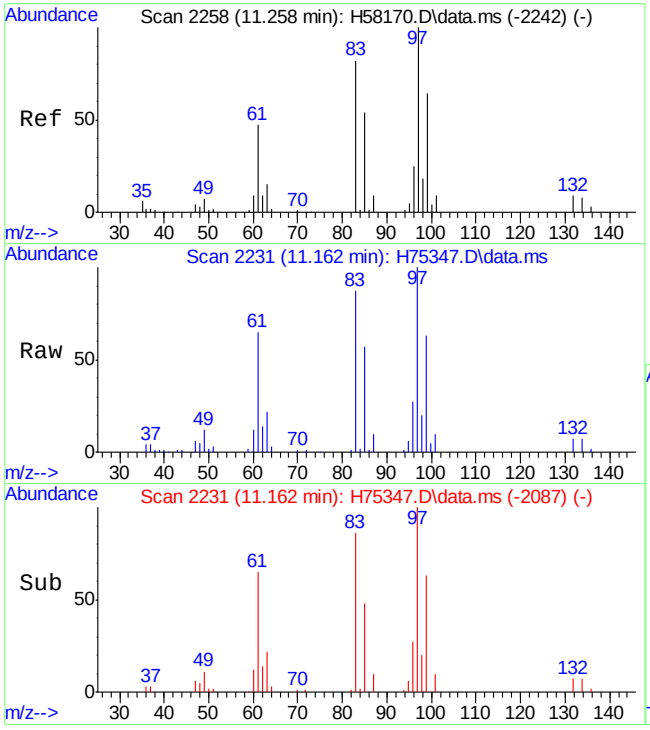


#63
trans-1,3-dichloropropene
Concen: 47.30 ug/L
RT: 10.993 min Scan# 2183
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 75 Resp: 127283

Ion	Ratio	Lower	Upper
75	100		
110	23.3	0.0	54.2

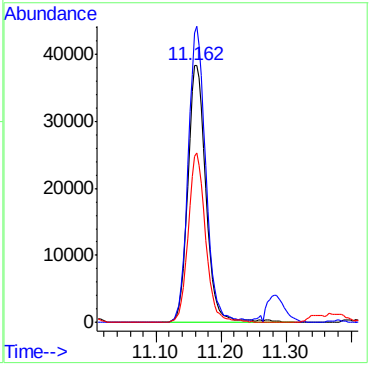


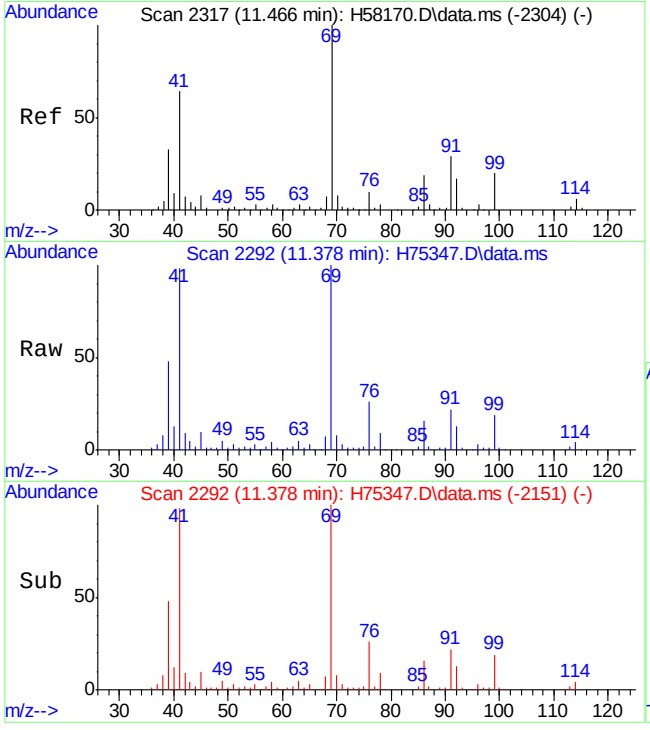


#64
1,1,2-trichloroethane
Concen: 51.60 ug/L
RT: 11.162 min Scan# 2231
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 83 Resp: 75088

Ion	Ratio	Lower	Upper
83	100		
97	115.2	98.5	158.5
85	66.1	34.7	94.7

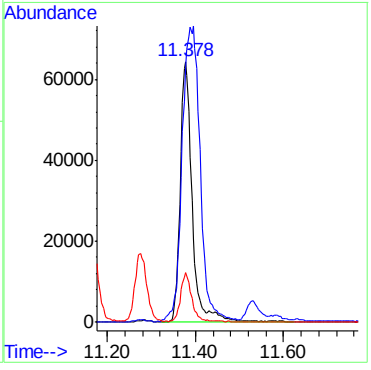


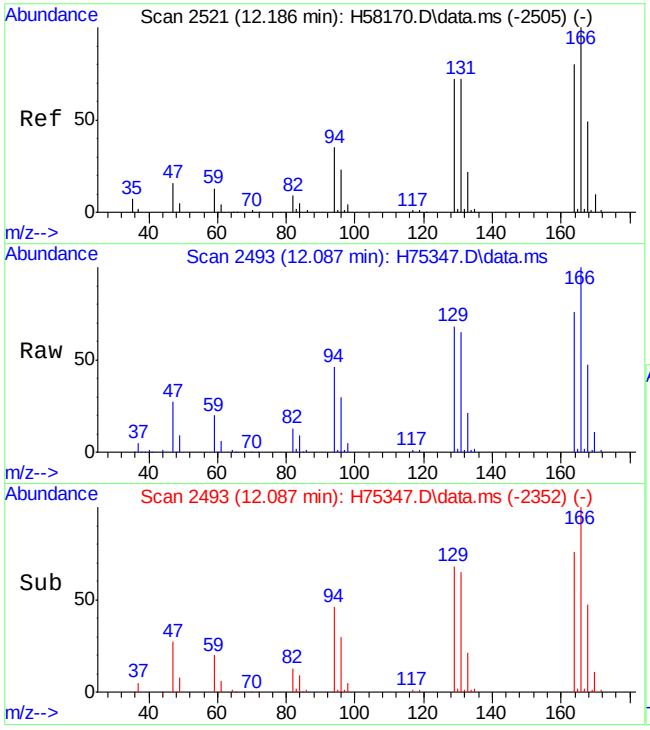


#65
ethyl methacrylate
Concen: 51.16 ug/L
RT: 11.378 min Scan# 2292
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 69 Resp: 121889

Ion	Ratio	Lower	Upper
69	100		
41	96.9	68.2	128.2
99	18.8	0.0	55.4

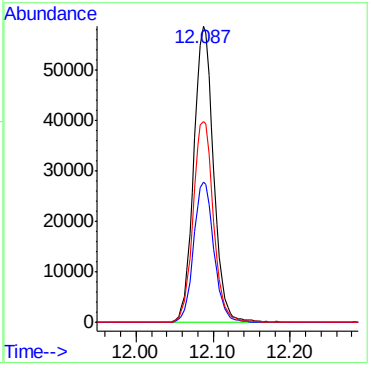


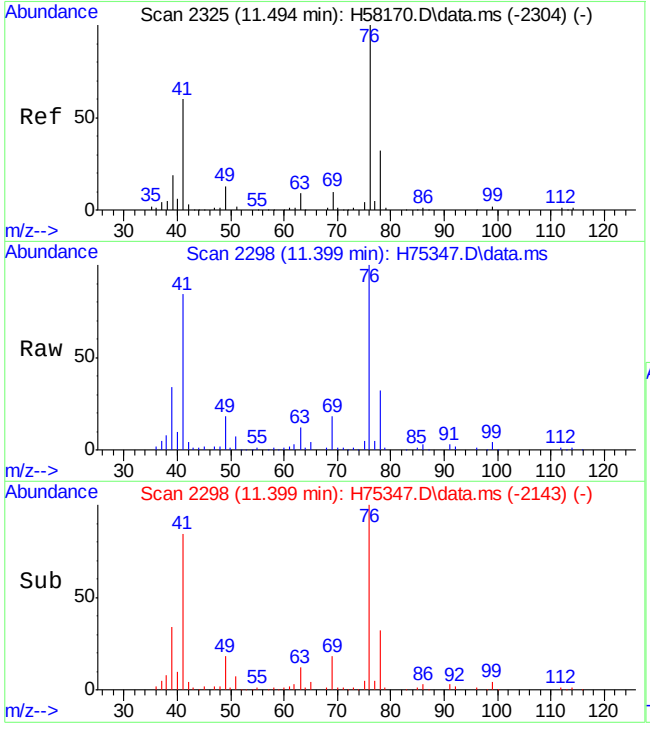


#67
tetrachloroethene
Concen: 49.57 ug/L
RT: 12.087 min Scan# 2493
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:166 Resp: 104092

Ion	Ratio	Lower	Upper
166	100		
168	47.2	17.7	77.7
129	67.7	48.9	108.9

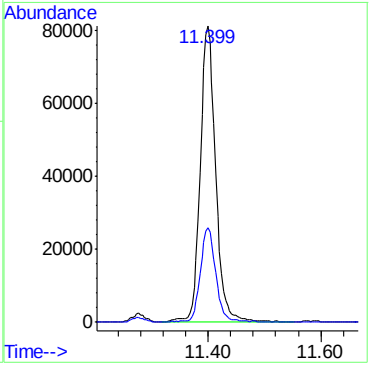


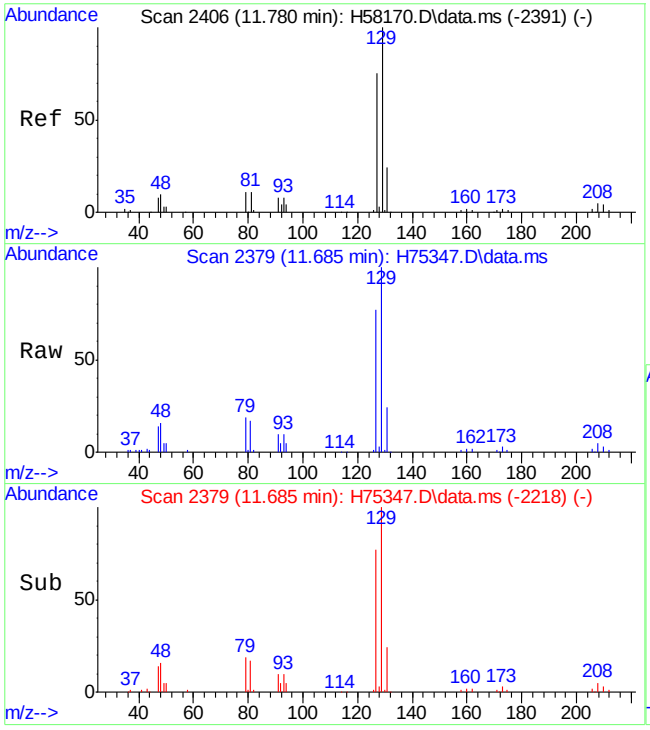


#68
1,3-dichloropropane
Concen: 49.40 ug/L
RT: 11.399 min Scan# 2298
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 76 Resp: 155795

Ion	Ratio	Lower	Upper
76	100		
78	31.9	3.4	63.4

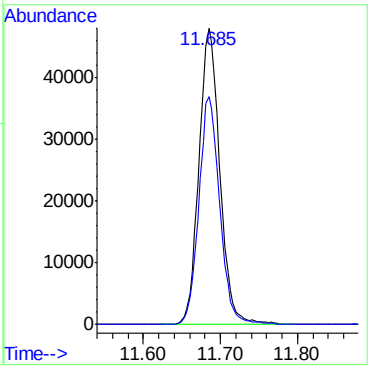


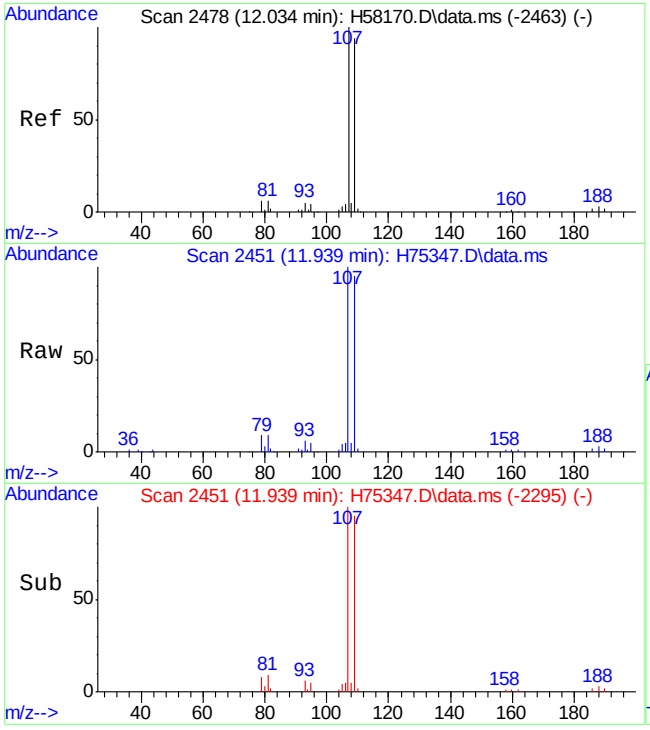


#69
dibromochloromethane
Concen: 43.34 ug/L
RT: 11.685 min Scan# 2379
Delta R.T. -0.002 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:129 Resp: 90019

Ion	Ratio	Lower	Upper
129	100		
127	76.8	48.1	108.1

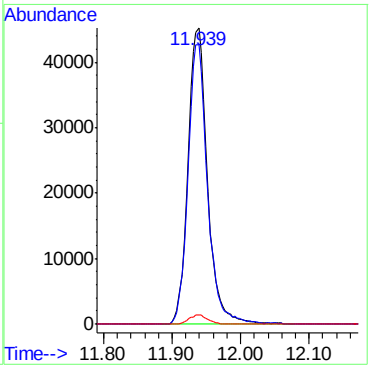


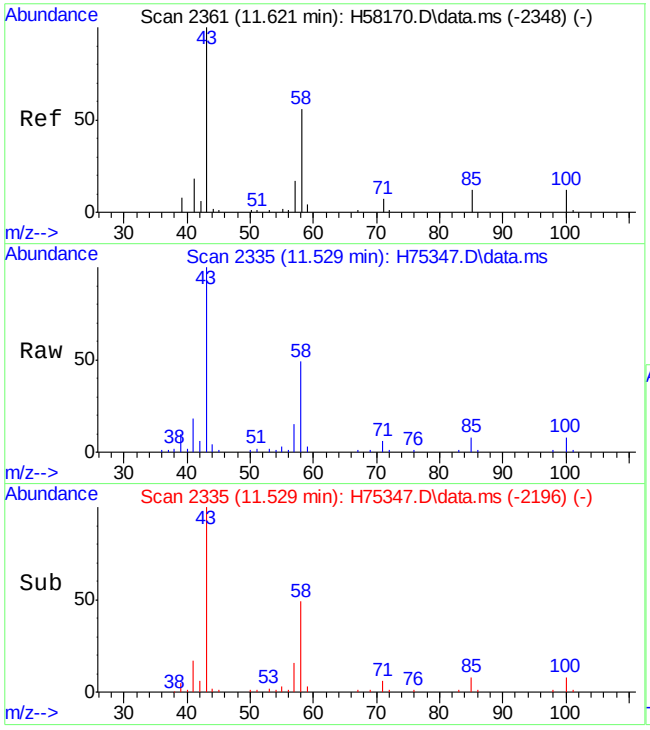


#70
1,2-dibromoethane
Concen: 48.12 ug/L
RT: 11.939 min Scan# 2451
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:107 Resp: 89378

Ion	Ratio	Lower	Upper
107	100		
109	94.5	58.7	118.7
188	2.9	0.0	33.1

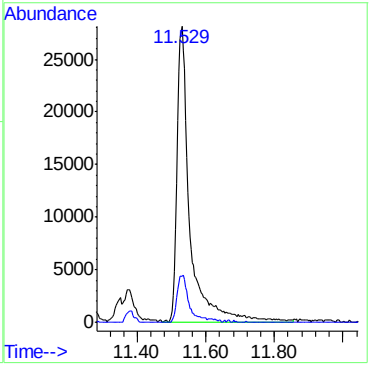


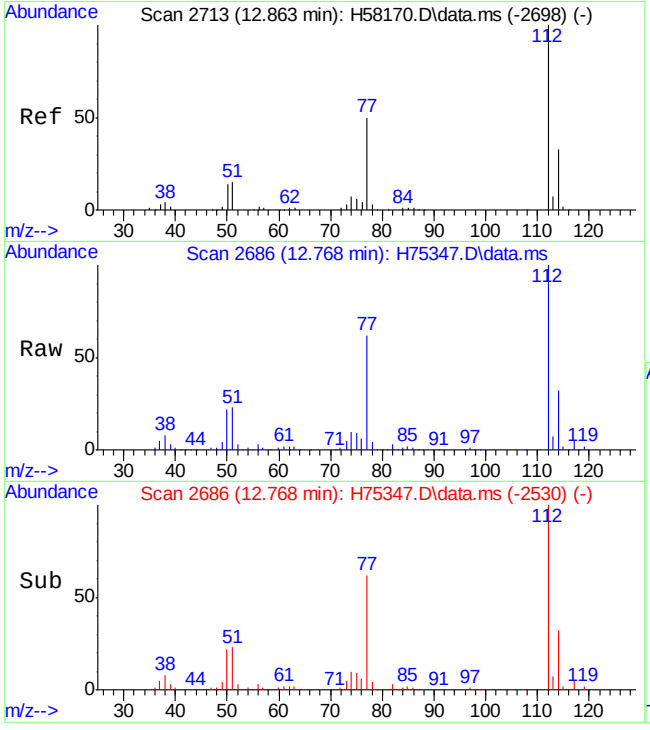


#71
2-hexanone
Concen: 47.44 ug/L
RT: 11.529 min Scan# 2335
Delta R.T. -0.010 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 43 Resp: 72296

Ion	Ratio	Lower	Upper
43	100		
57	15.5	0.0	48.4

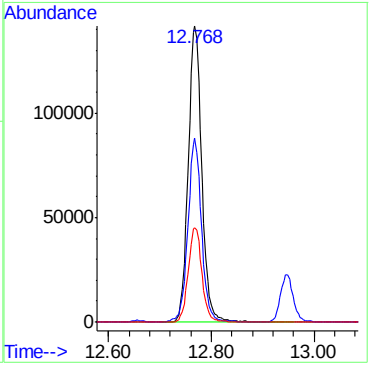




#72
chlorobenzene
Concen: 46.45 ug/L
RT: 12.768 min Scan# 2686
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:112 Resp: 259613

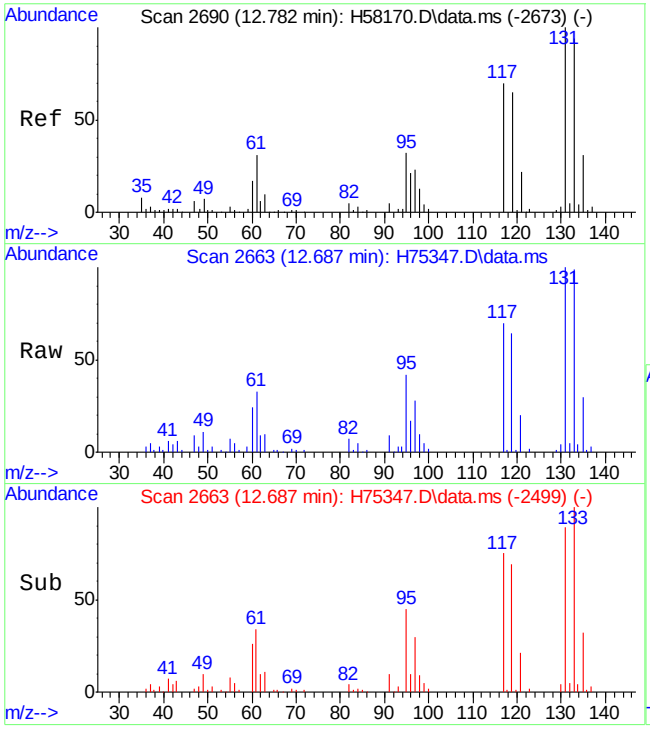
Ion	Ratio	Lower	Upper
112	100		
77	62.1	19.7	79.7
114	32.0	2.4	62.4



7.4.1

7

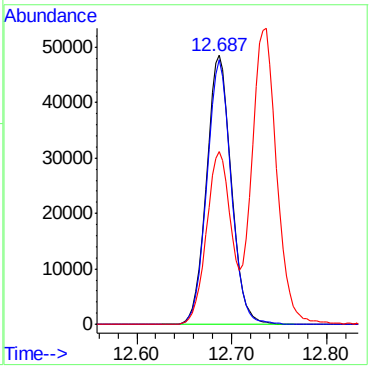
ACCUTEST LABORATORIES
MC41696

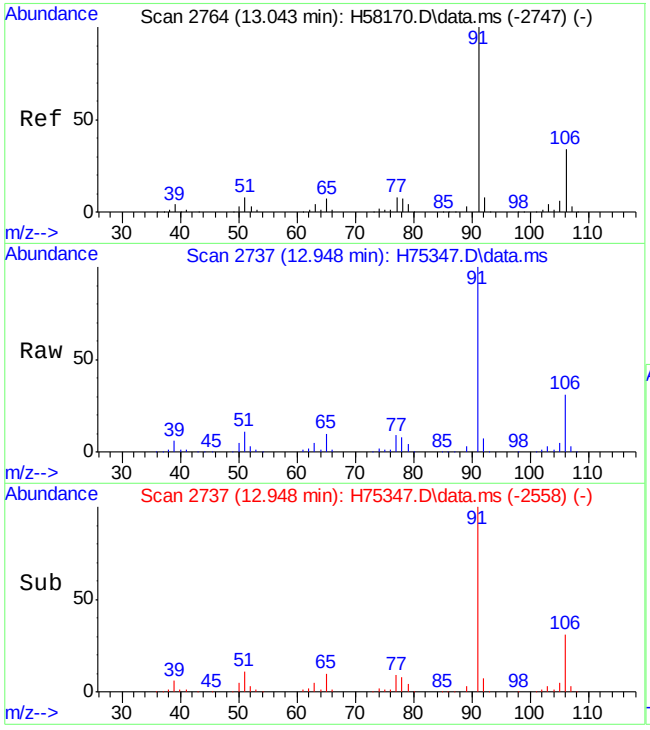


#73
1,1,1,2-tetrachloroethane
Concen: 50.36 ug/L
RT: 12.687 min Scan# 2663
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:131 Resp: 87084

Ion	Ratio	Lower	Upper
131	100		
133	98.6	64.9	124.9
119	64.3	26.4	86.4

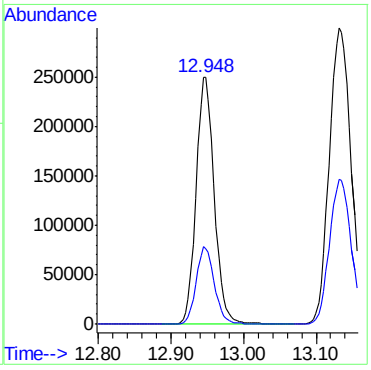




#74
ethylbenzene
Concen: 48.53 ug/L
RT: 12.948 min Scan# 2737
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

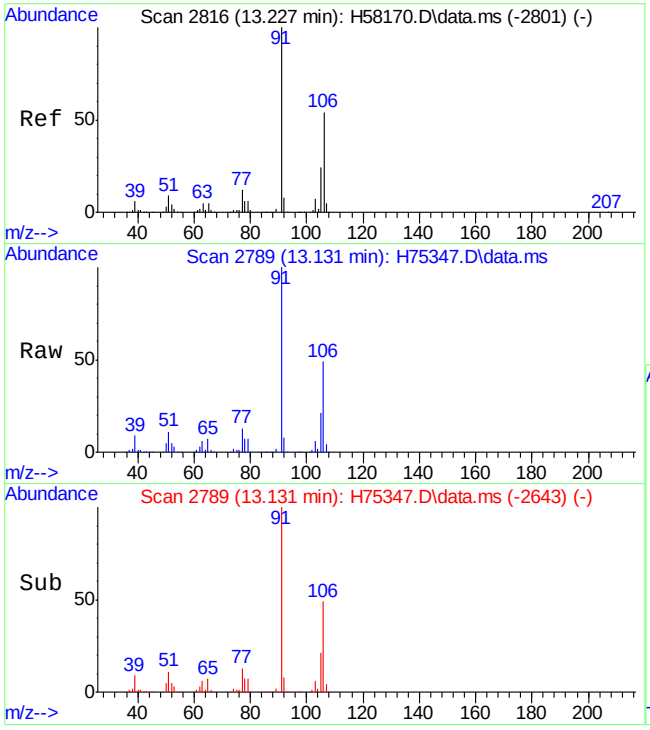
Tgt Ion: 91 Resp: 435195

Ion	Ratio	Lower	Upper
91	100		
106	30.7	2.9	62.9



7.4.1

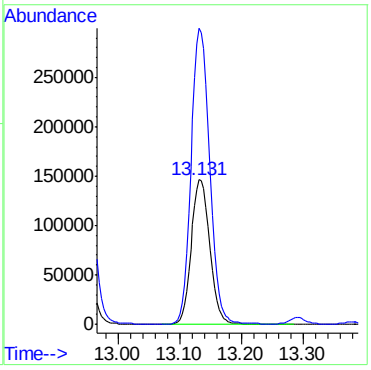
7

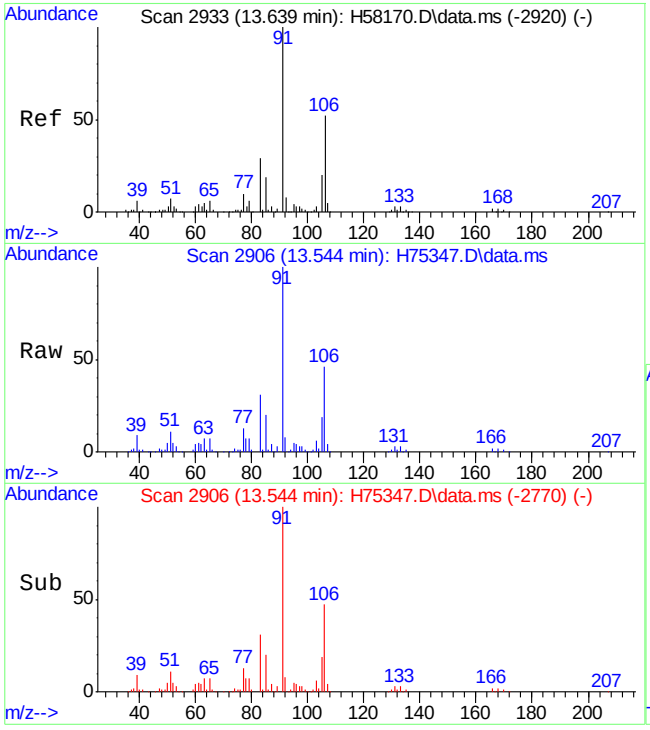


#75
m,p-xylene
Concen: 90.90 ug/L
RT: 13.131 min Scan# 2789
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:106 Resp: 305807

Ion	Ratio	Lower	Upper
106	100		
91	205.0	173.2	233.2

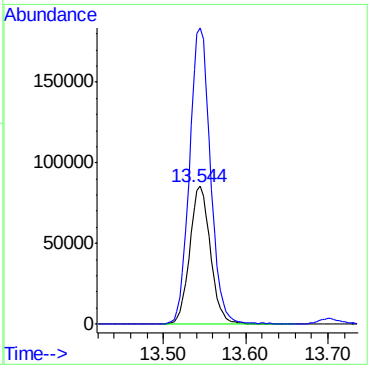




#76
o-xylene
Concen: 43.20 ug/L
RT: 13.544 min Scan# 2906
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

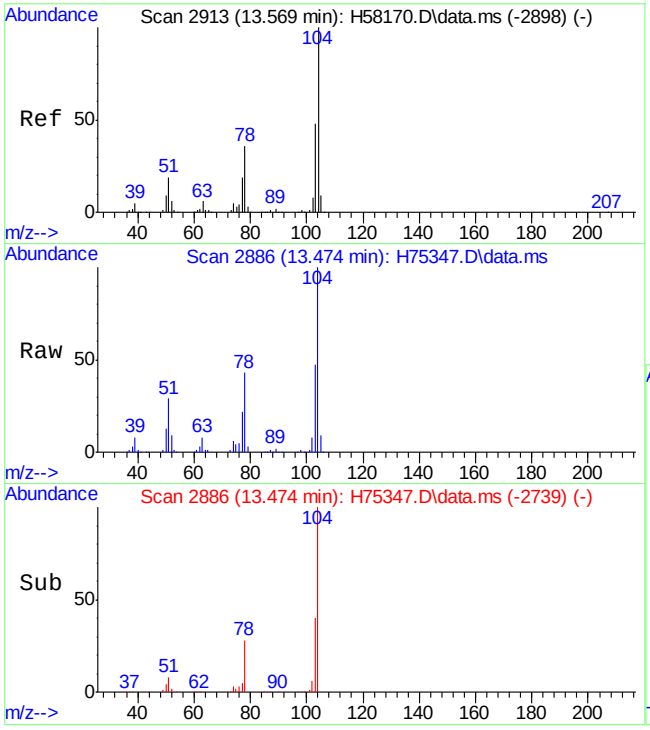
Tgt Ion:106 Resp: 149120

Ion	Ratio	Lower	Upper
106	100		
91	215.0	183.3	243.3



7.4.1

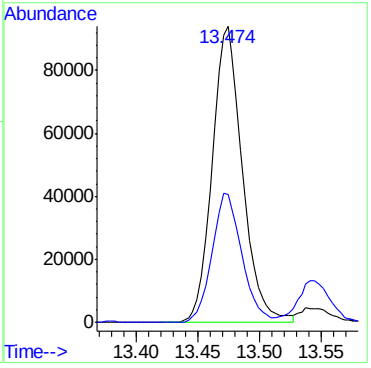
7

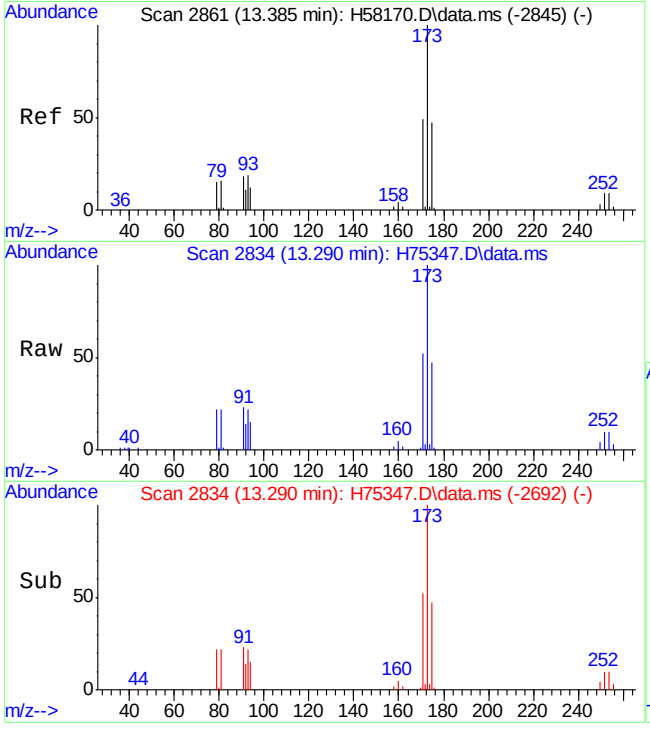


#77
styrene
Concen: 27.56 ug/L
RT: 13.474 min Scan# 2886
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:104 Resp: 160041

Ion	Ratio	Lower	Upper
104	100		
78	43.3	12.2	72.2

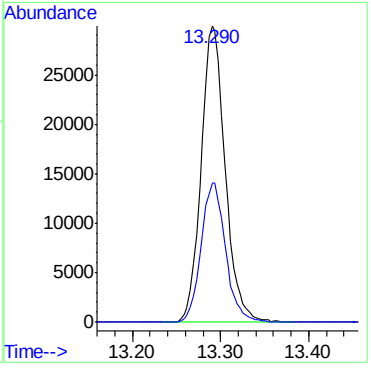


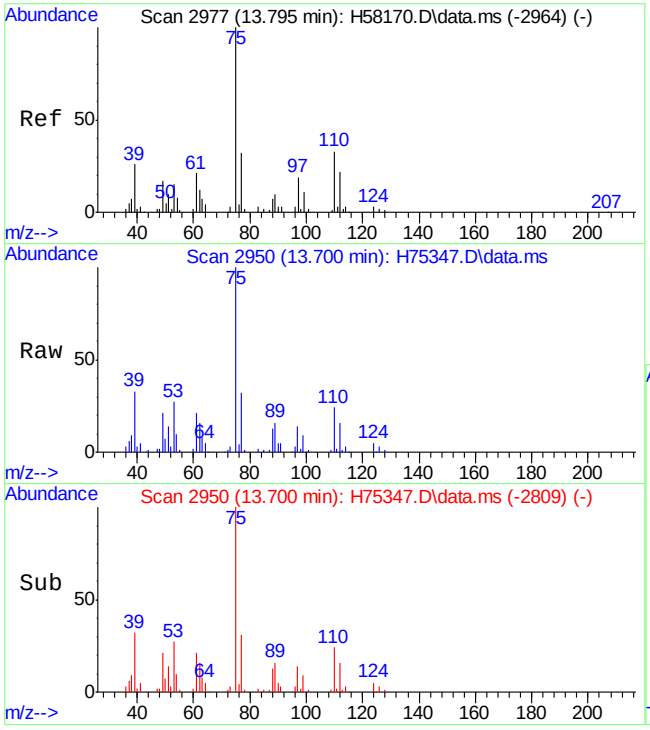


#78
bromoform
Concen: 48.48 ug/L
RT: 13.290 min Scan# 2834
Delta R.T. 0.001 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:173 Resp: 56602

Ion	Ratio	Lower	Upper
173	100		
175	47.7	17.7	77.7

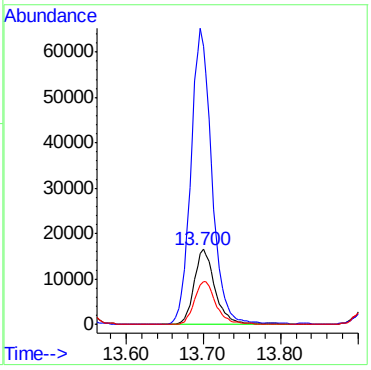


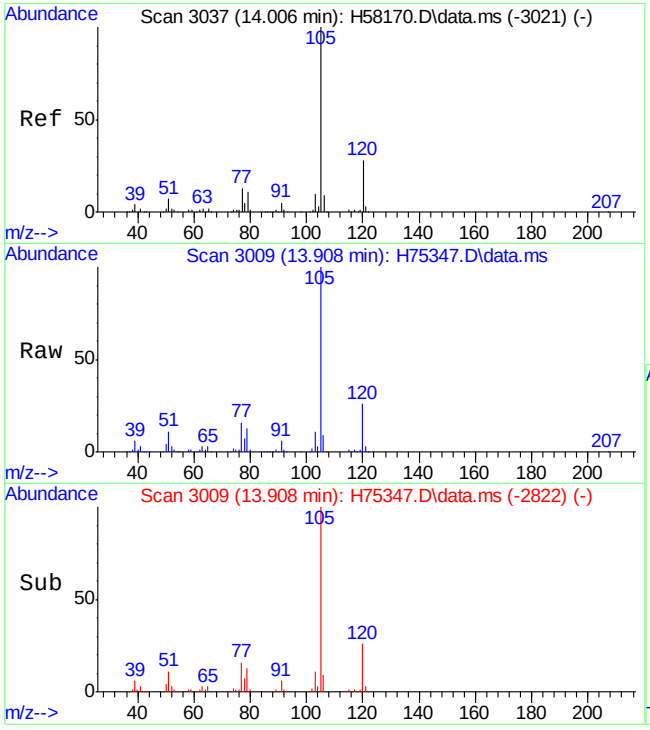


#79
trans-1,4-dichloro-2-butene
Concen: 46.08 ug/L
RT: 13.700 min Scan# 2950
Delta R.T. -0.002 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 53 Resp: 30868

Ion	Ratio	Lower	Upper
53	100		
75	369.6	302.8	362.8#
89	57.5	25.5	85.5

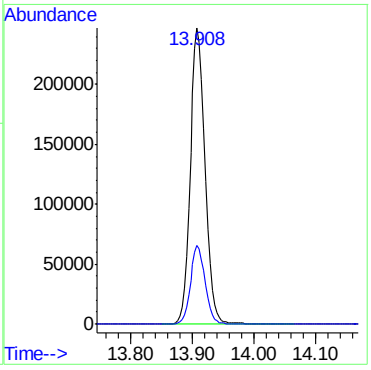


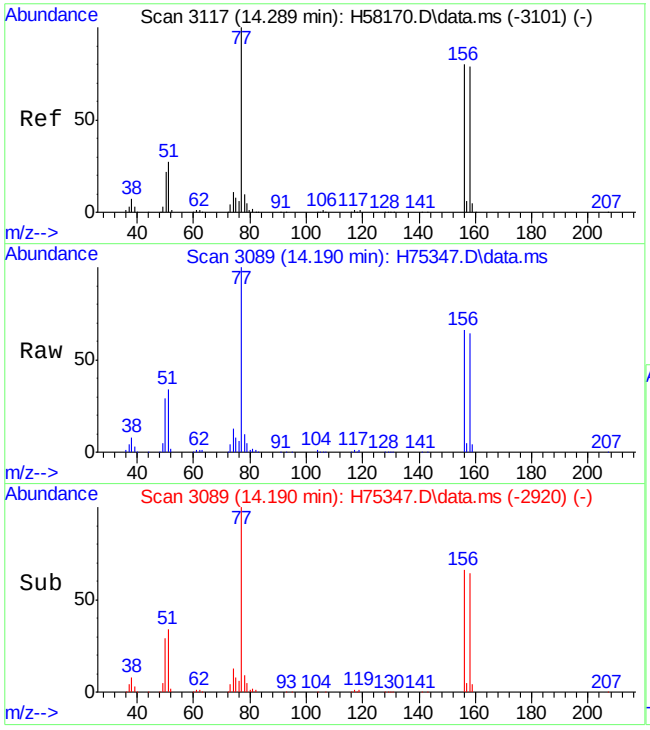


#81
isopropylbenzene
Concen: 46.17 ug/L
RT: 13.908 min Scan# 3009
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:105 Resp: 412784

Ion	Ratio	Lower	Upper
105	100		
120	26.4	0.0	56.6

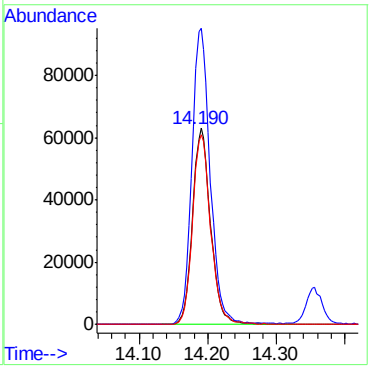


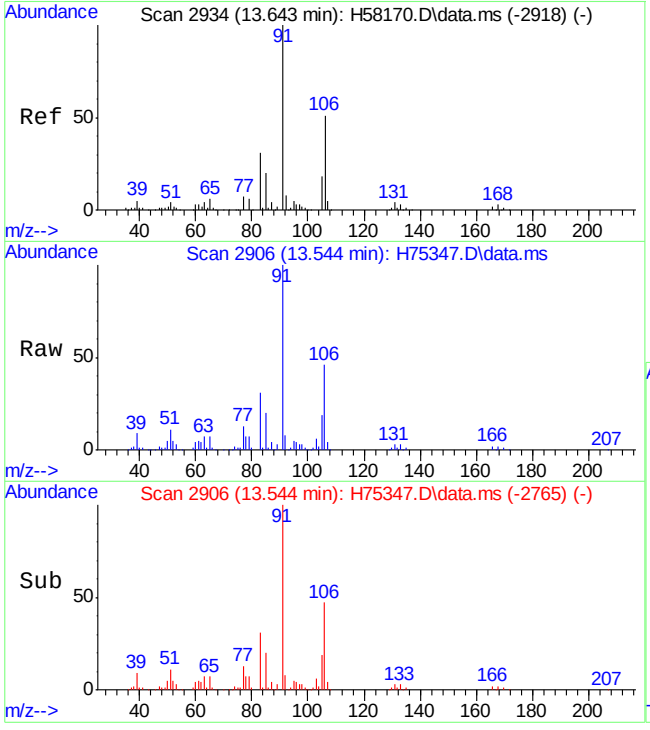


#83
bromobenzene
Concen: 46.40 ug/L
RT: 14.190 min Scan# 3089
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:156 Resp: 114654

Ion	Ratio	Lower	Upper
156	100		
77	151.1	93.1	153.1
158	96.8	65.7	125.7

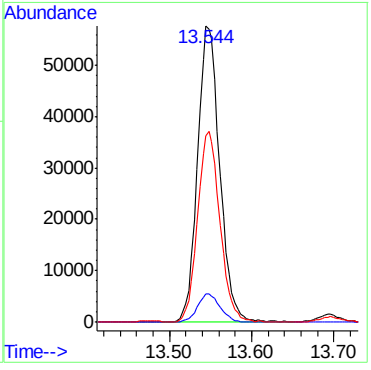


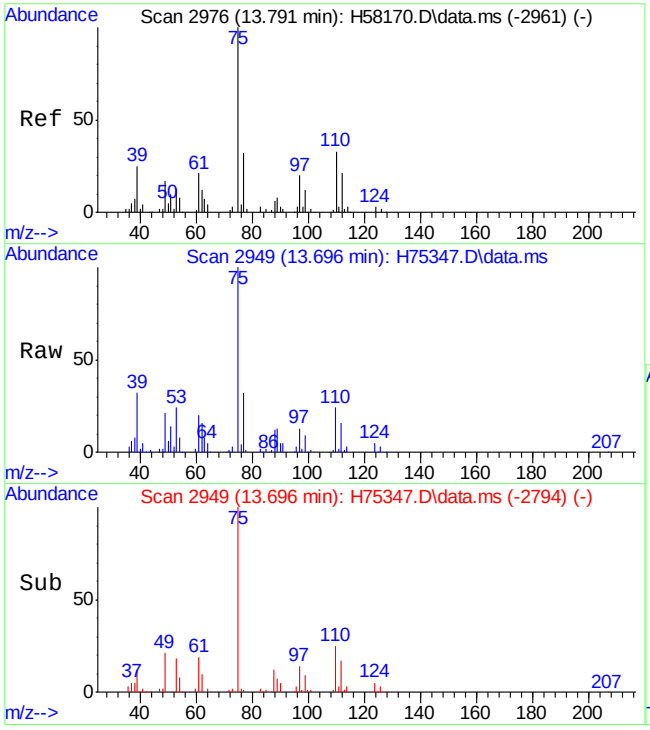


#84
1,1,2,2-tetrachloroethane
Concen: 49.62 ug/L
RT: 13.544 min Scan# 2906
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 83 Resp: 108168

Ion	Ratio	Lower	Upper
83	100		
131	9.6	0.0	45.7
85	62.8	36.0	96.0

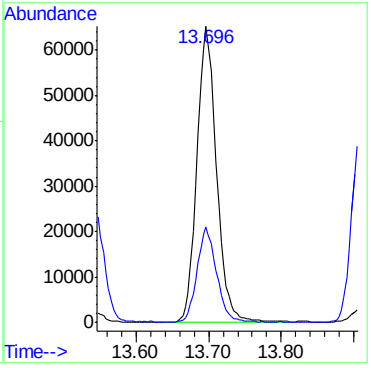


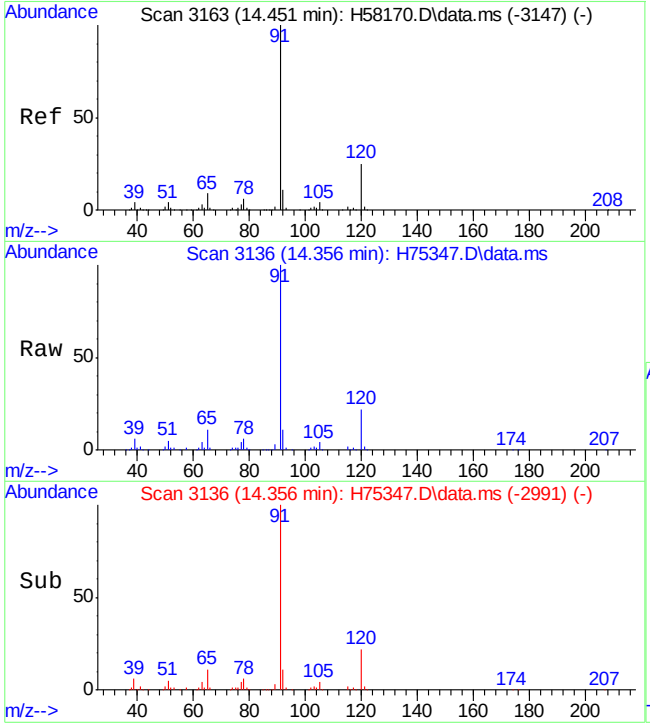


#85
1,2,3-trichloropropane
Concen: 49.48 ug/L
RT: 13.696 min Scan# 2949
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 75 Resp: 122469

Ion	Ratio	Lower	Upper
75	100		
77	32.0	4.2	64.2

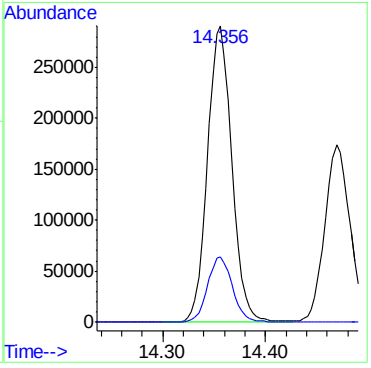


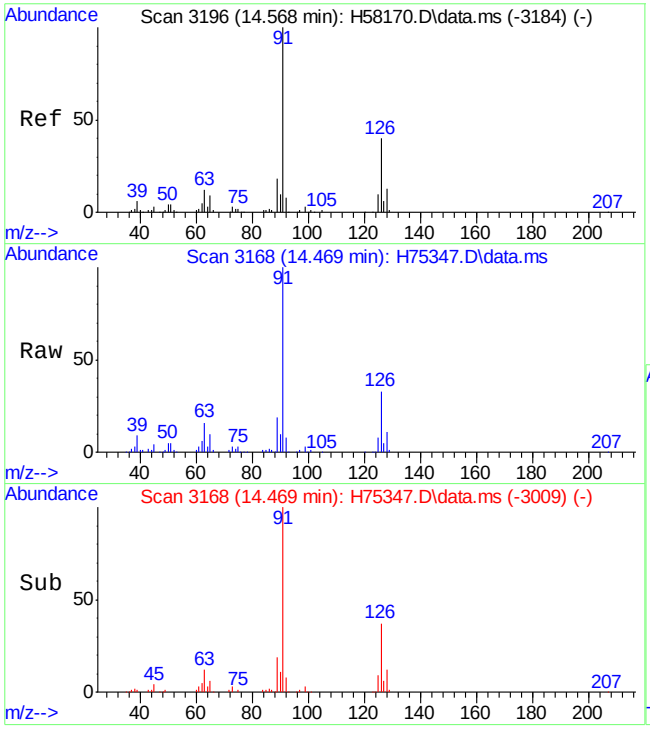


#86
n-propylbenzene
Concen: 45.26 ug/L
RT: 14.356 min Scan# 3136
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 91 Resp: 477294

Ion	Ratio	Lower	Upper
91	100		
120	21.9	0.0	55.4

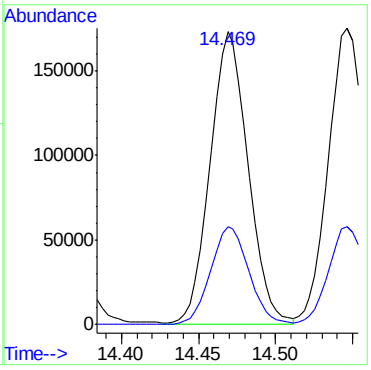


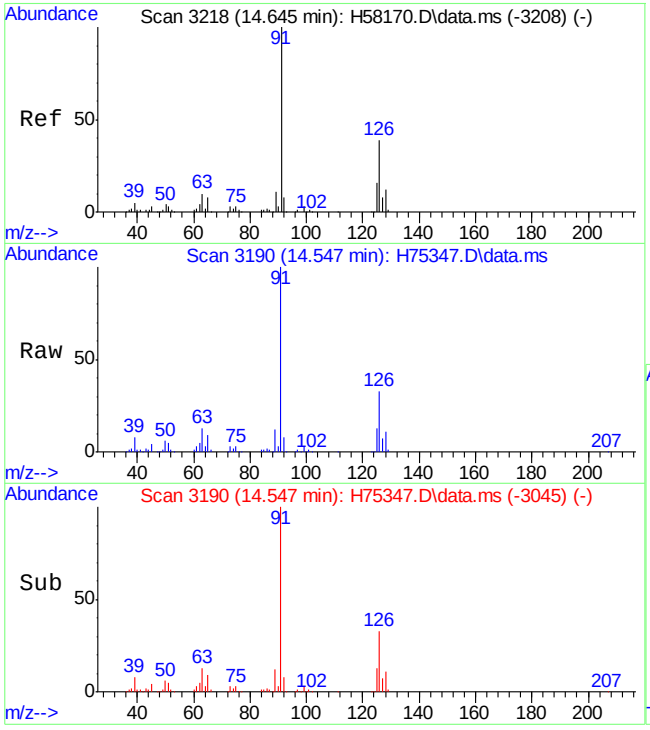


#87
2-chlorotoluene
Concen: 47.09 ug/L
RT: 14.469 min Scan# 3168
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 91 Resp: 296967

Ion	Ratio	Lower	Upper
91	100		
126	33.5	10.4	70.4

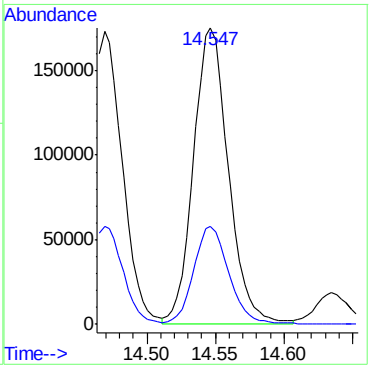


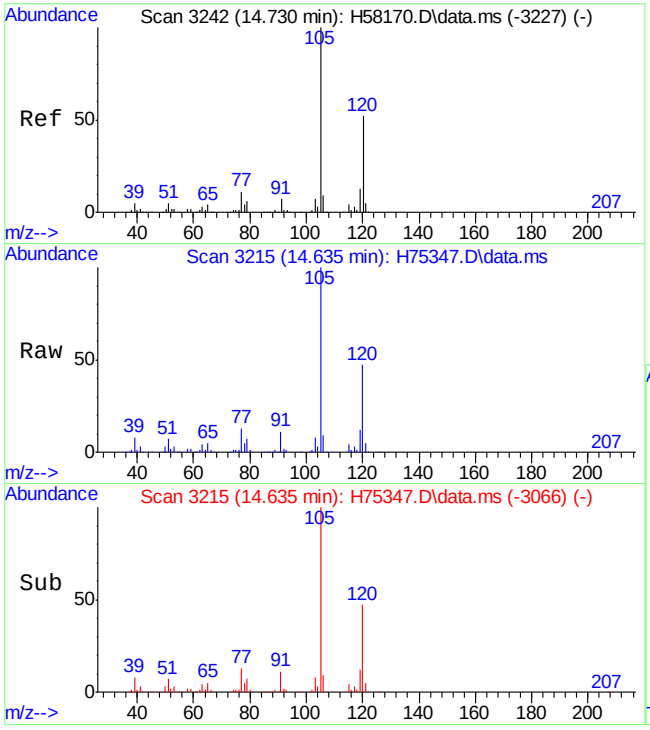


#88
4-chlorotoluene
Concen: 46.79 ug/L
RT: 14.547 min Scan# 3190
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 91 Resp: 310479

Ion	Ratio	Lower	Upper
91	100		
126	33.2	9.4	69.4

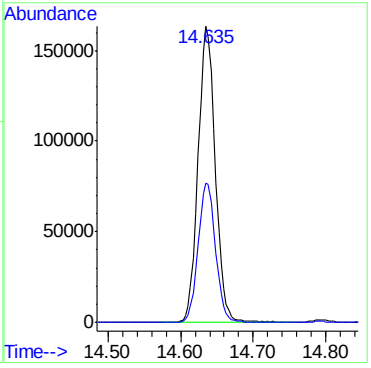


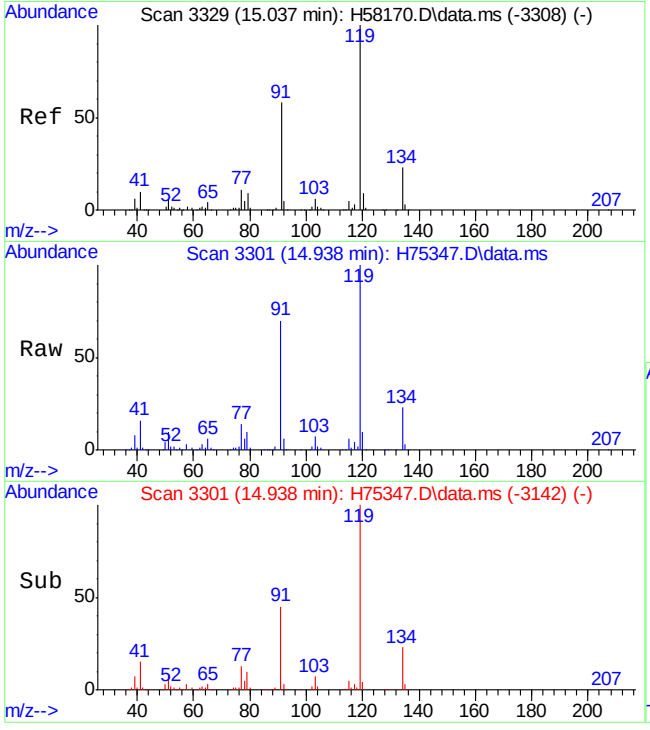


#89
1,3,5-trimethylbenzene
Concen: 38.30 ug/L
RT: 14.635 min Scan# 3215
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:105 Resp: 269078

Ion	Ratio	Lower	Upper
105	100		
120	46.9	18.1	78.1

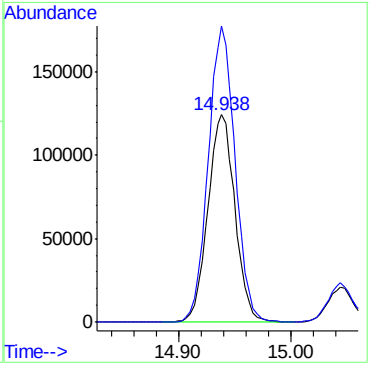


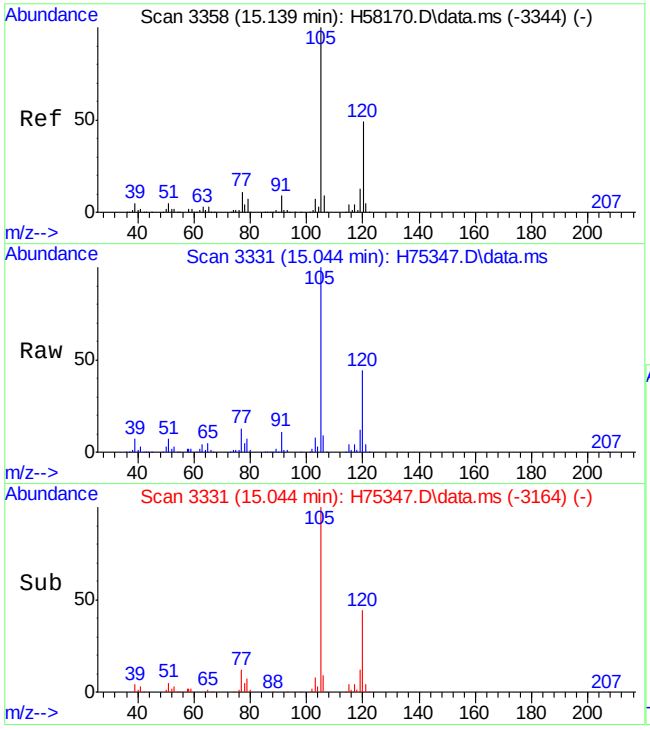


#90
tert-butylbenzene
Concen: 48.89 ug/L
RT: 14.938 min Scan# 3301
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 91 Resp: 209331

Ion	Ratio	Lower	Upper
91	100		
119	142.9	125.7	185.7

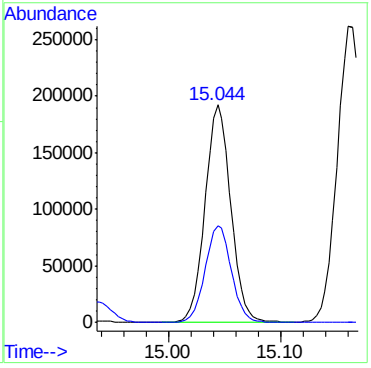


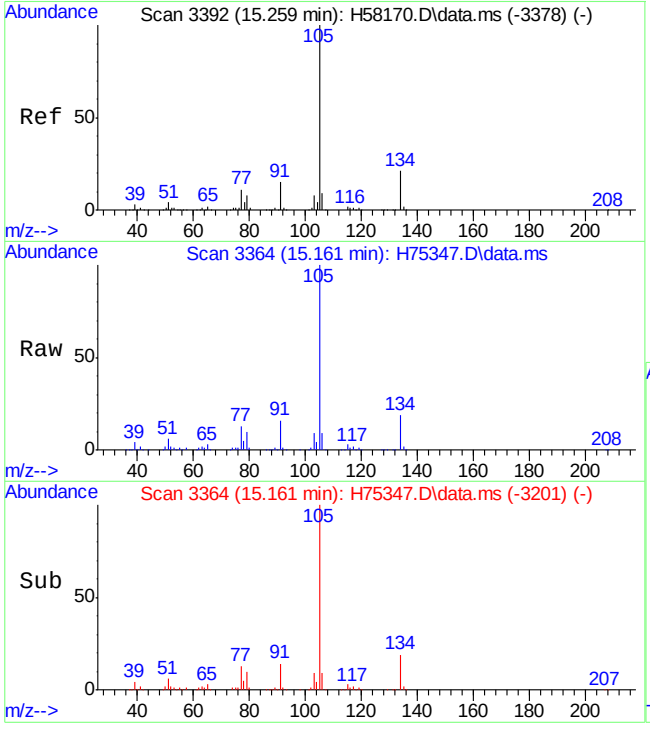


#91
1,2,4-trimethylbenzene
Concen: 43.66 ug/L
RT: 15.044 min Scan# 3331
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:105 Resp: 307751

Ion	Ratio	Lower	Upper
105	100		
120	44.2	15.6	75.6

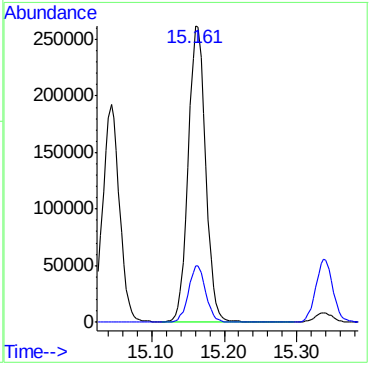


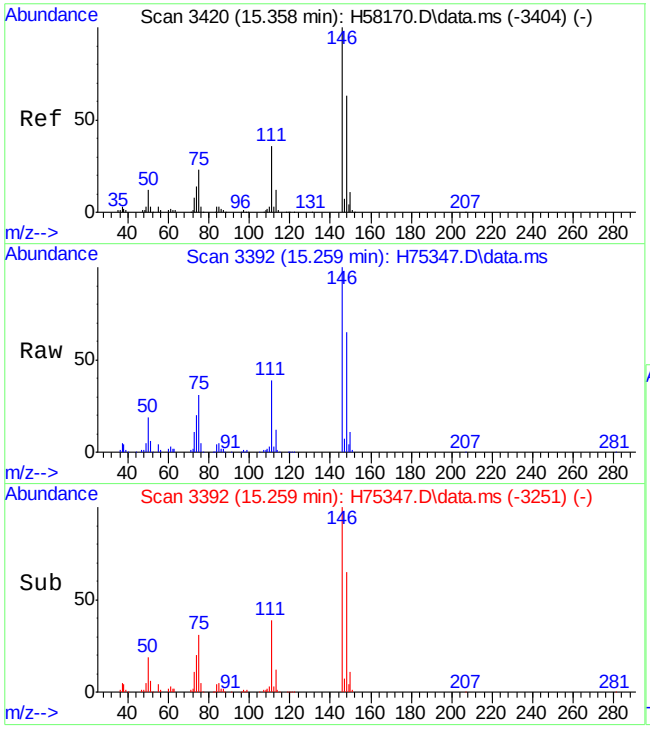


#92
sec-butylbenzene
Concen: 47.90 ug/L
RT: 15.161 min Scan# 3364
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:105 Resp: 436184

Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	49.6

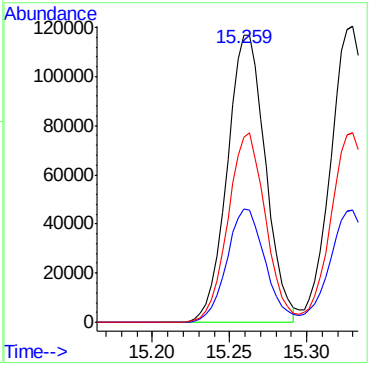


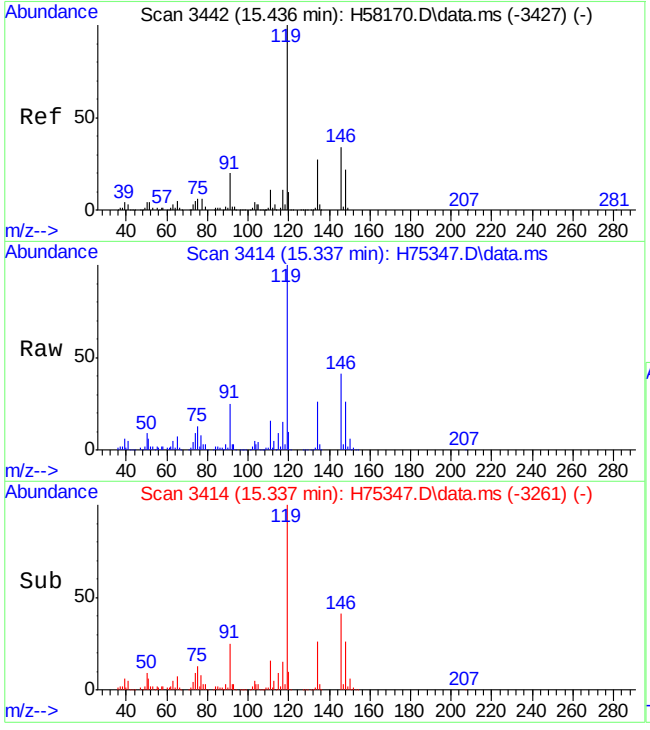


#93
1,3-dichlorobenzene
Concen: 47.98 ug/L
RT: 15.259 min Scan# 3392
Delta R.T. -0.003 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:146 Resp: 200623

Ion	Ratio	Lower	Upper
146	100		
111	39.4	8.2	68.2
148	64.6	34.0	94.0

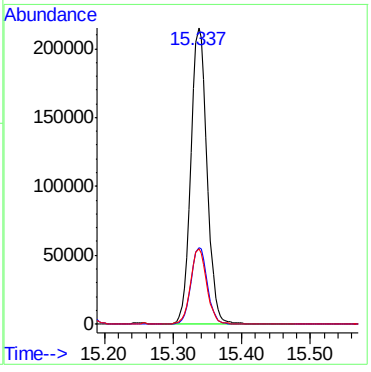


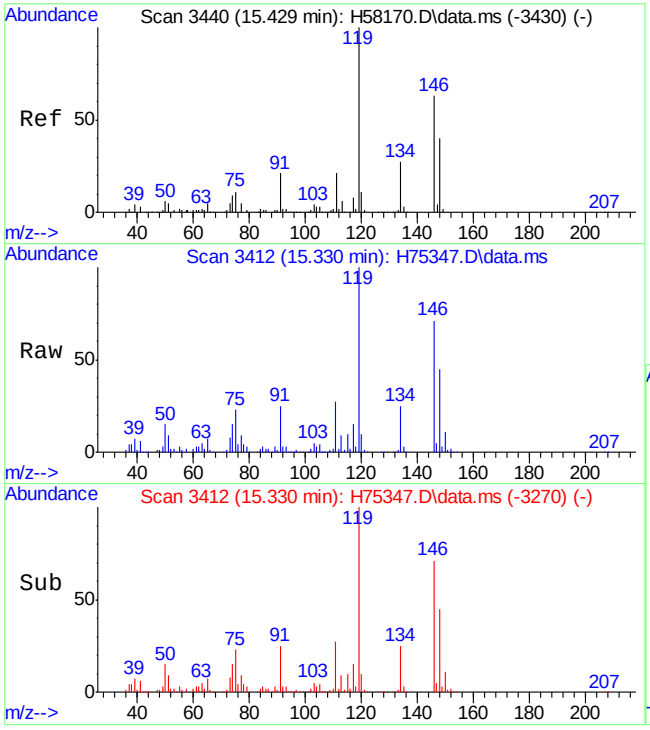


#94
p-isopropyltoluene
Concen: 45.91 ug/L
RT: 15.337 min Scan# 3414
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:119 Resp: 351521

Ion	Ratio	Lower	Upper
119	100		
134	25.9	0.0	57.0
91	25.3	0.0	52.8

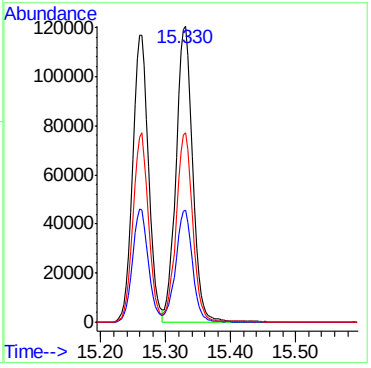


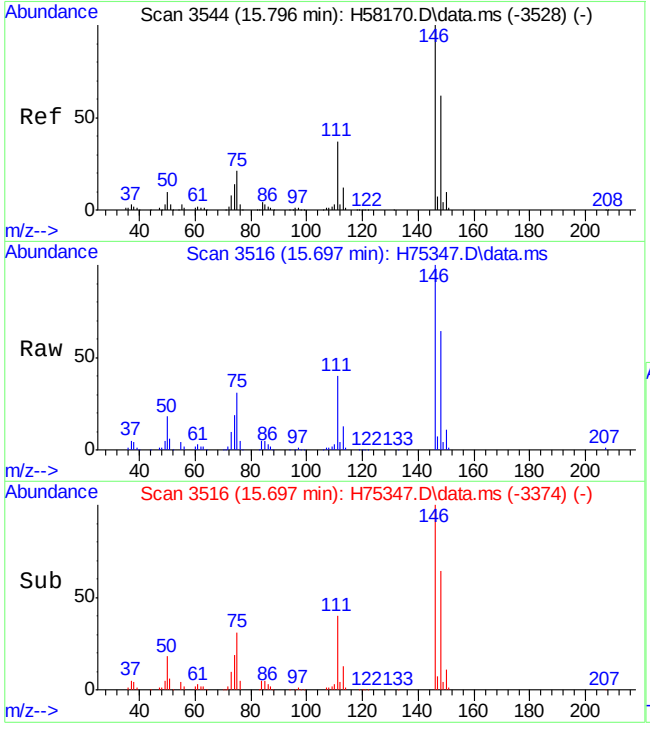


#95
1,4-dichlorobenzene
Concen: 47.32 ug/L
RT: 15.330 min Scan# 3412
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:146 Resp: 215872

Ion	Ratio	Lower	Upper
146	100		
111	38.0	6.7	66.7
148	64.2	34.0	94.0

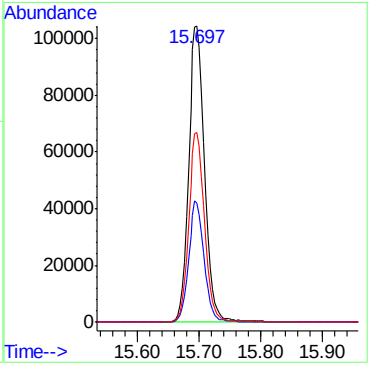


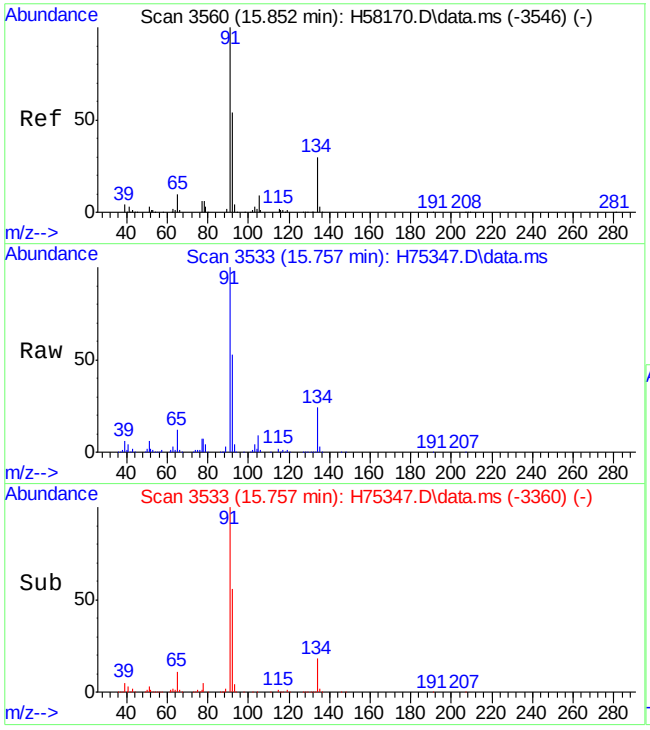


#96
1,2-dichlorobenzene
Concen: 49.86 ug/L
RT: 15.697 min Scan# 3516
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:146 Resp: 189351

Ion	Ratio	Lower	Upper
146	100		
111	40.0	9.9	69.9
148	63.9	33.5	93.5

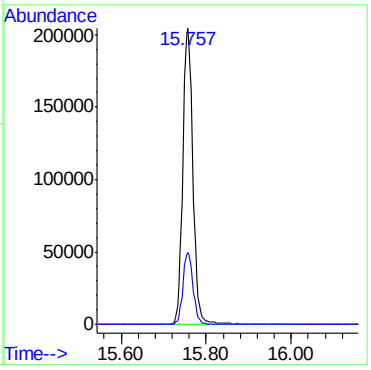


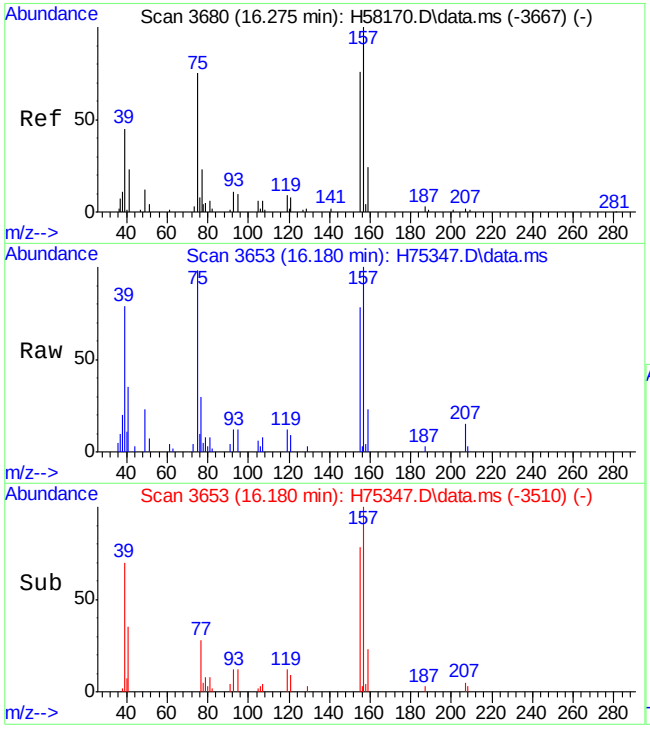


#97
n-butylbenzene
Concen: 49.85 ug/L
RT: 15.757 min Scan# 3533
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion: 91 Resp: 338334

Ion	Ratio	Lower	Upper
91	100		
134	24.4	0.0	59.2

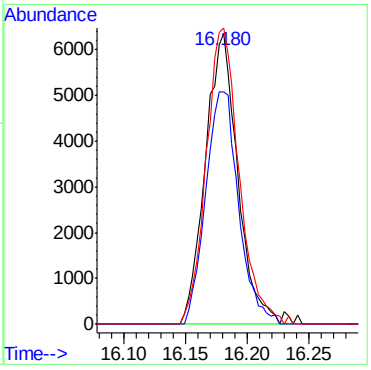




#98
1,2-dibromo-3-chloropropane
Concen: 53.64 ug/L
RT: 16.180 min Scan# 3653
Delta R.T. 0.004 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

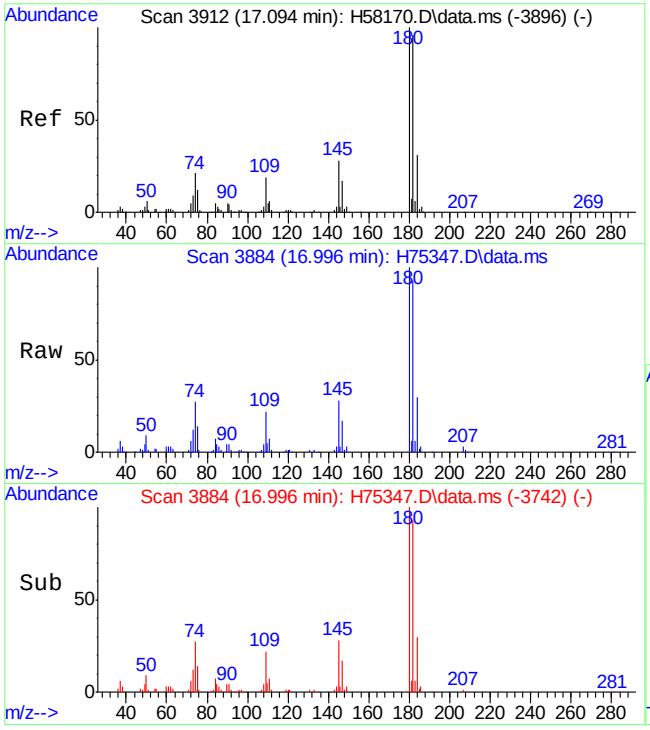
Tgt Ion: 75 Resp: 11629

Ion	Ratio	Lower	Upper
75	100		
155	79.8	66.2	126.2
157	101.9	88.7	148.7



7.4.1

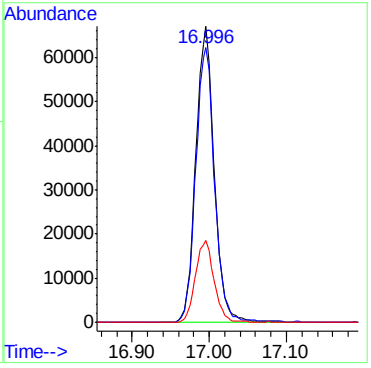
7

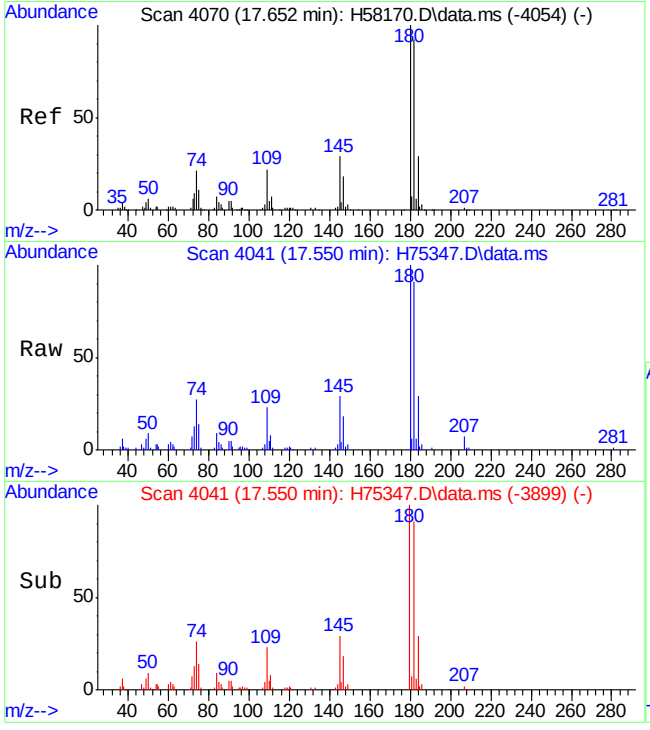


#99
1,3,5-trichlorobenzene
Concen: 47.52 ug/L
RT: 16.996 min Scan# 3884
Delta R.T. 0.000 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:180 Resp: 110855

Ion	Ratio	Lower	Upper
180	100		
182	95.0	74.1	111.1
145	28.1	28.0	42.0

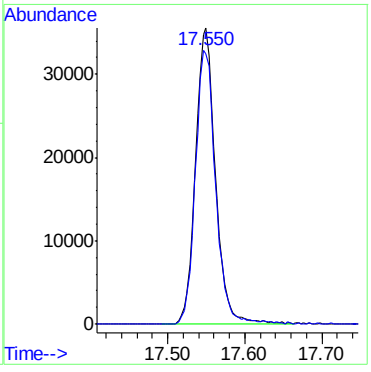


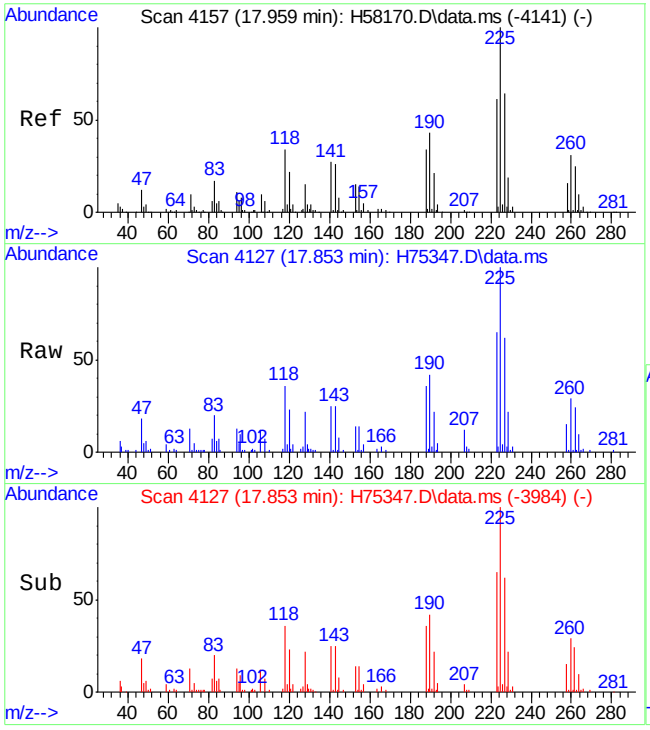


#100
1,2,4-trichlorobenzene
Concen: 53.60 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:180 Resp: 63556

Ion	Ratio	Lower	Upper
180	100		
182	91.3	62.6	122.6

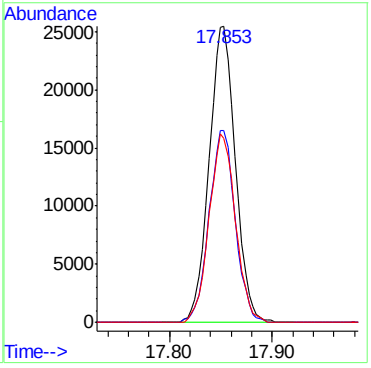


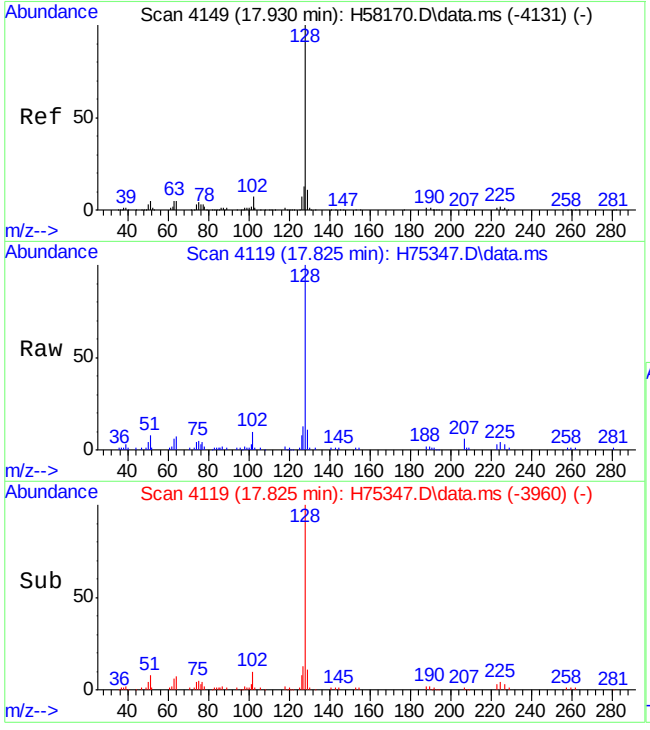


#101
hexachlorobutadiene
Concen: 51.29 ug/L
RT: 17.853 min Scan# 4127
Delta R.T. 0.004 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:225 Resp: 45139

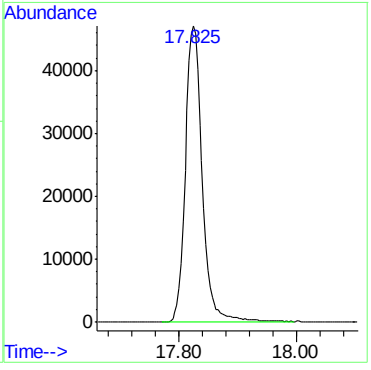
Ion	Ratio	Lower	Upper
225	100		
223	64.8	29.7	89.7
227	62.1	32.4	92.4

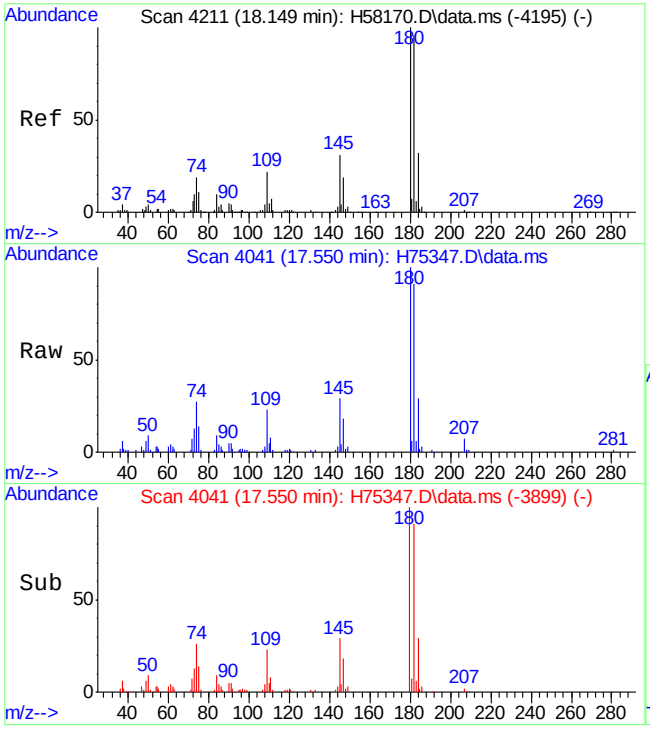




#102
naphthalene
Concen: 52.47 ug/L
RT: 17.825 min Scan# 4119
Delta R.T. 0.001 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:128 Resp: 93394

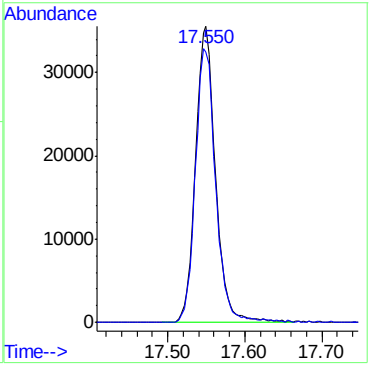




#103
1,2,3-trichlorobenzene
Concen: 53.60 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75347.D
Acq: 5 Oct 15 8:13 pm

Tgt Ion:180 Resp: 63556

Ion	Ratio	Lower	Upper
180	100		
182	91.3	64.3	124.3



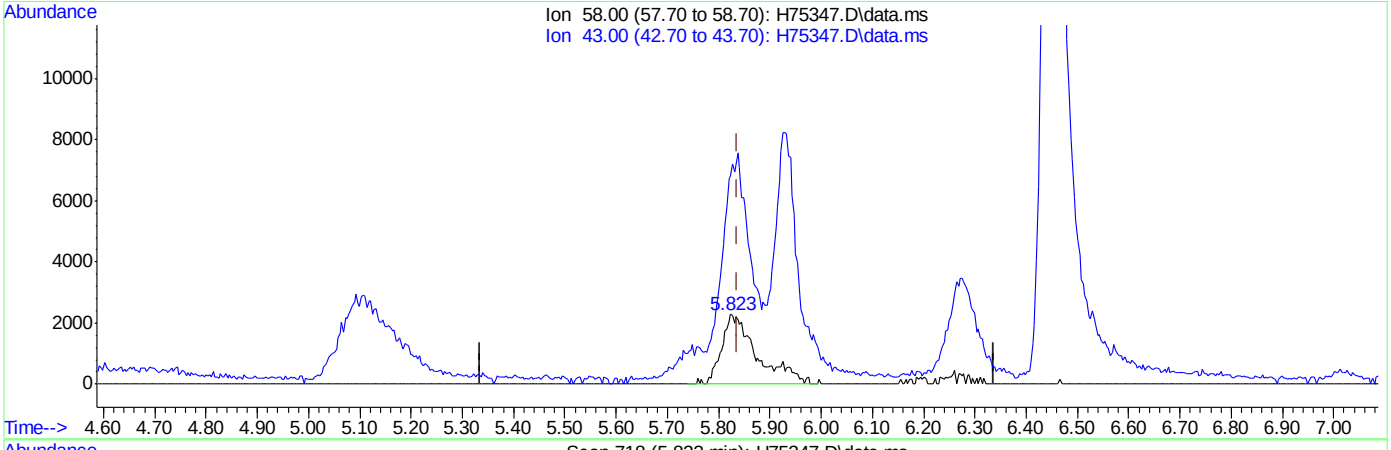
7.4.1

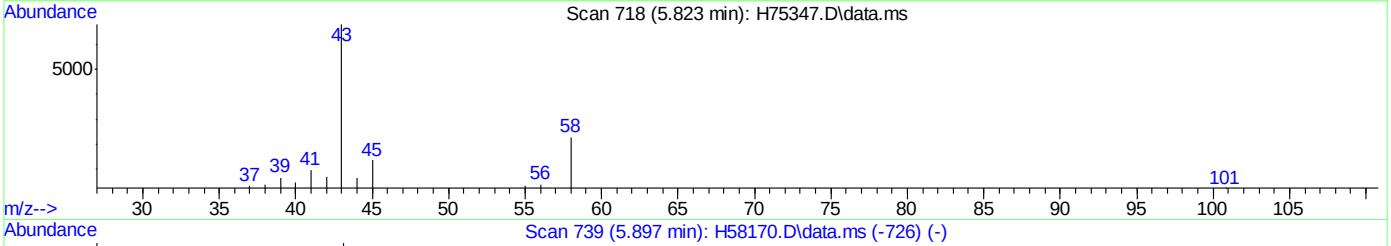
7

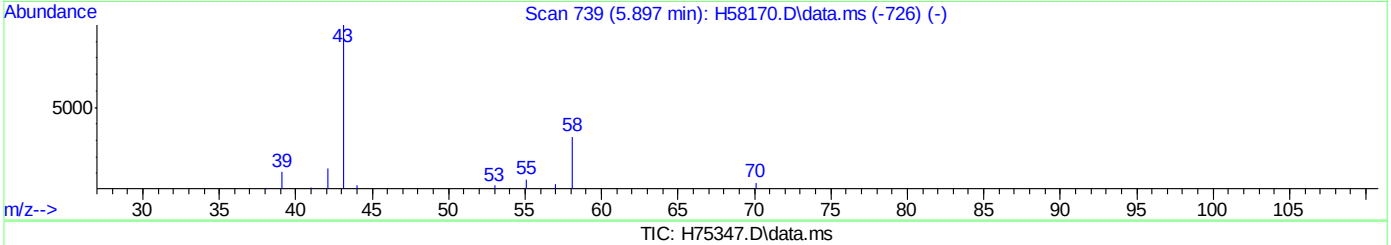
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On    :  5 Oct 2015   8:13 pm
Operator  : kaylap
Sample    : mc41696-1ms
Misc      : ms35361,msh2507,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Oct 06 08:53:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
```







TIC: H75347.D\data.ms

(15) acetone (p)

5.823min (-0.014) 57.43ug/L

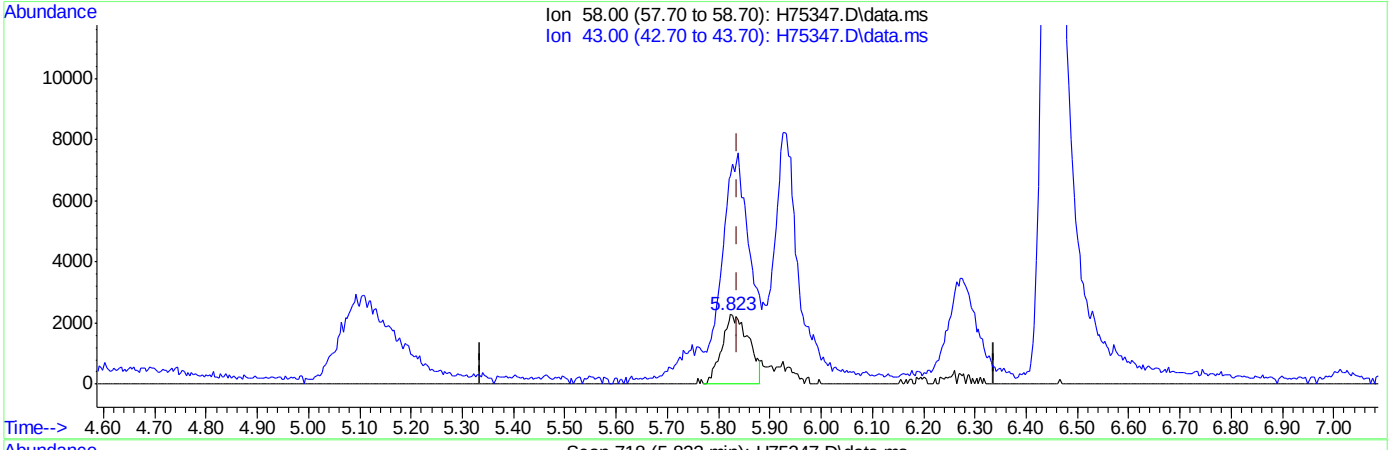
response 10949

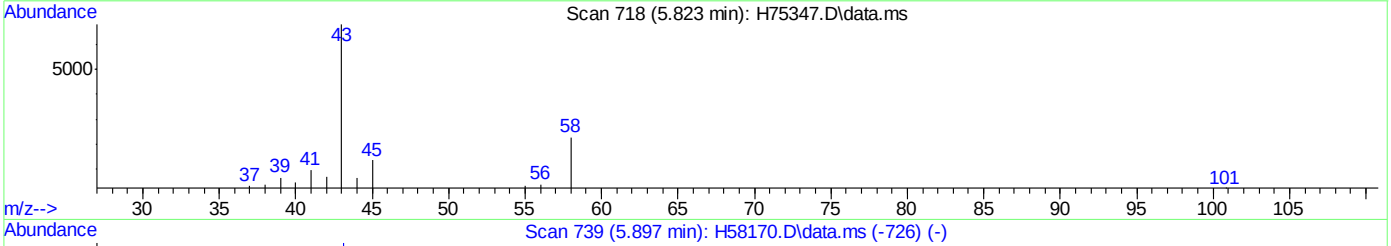
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	255.19#
0.00	0.00	0.00
0.00	0.00	0.00

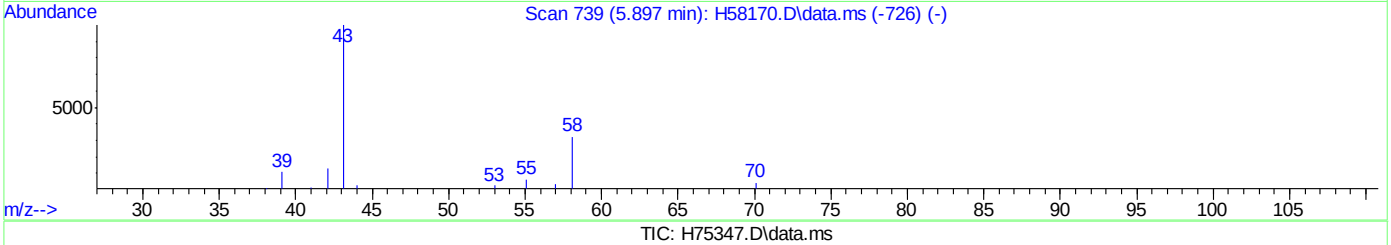
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On    :  5 Oct 2015   8:13 pm
Operator  : kaylap
Sample    : mc41696-1ms
Misc      : ms35361,msh2507,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Oct 06 08:53:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
```







TIC: H75347.D\data.ms

(15) acetone (p)

5.823min (-0.014) 43.54ug/L m

response 8301

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	299.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On    :  5 Oct 2015   8:13 pm
Operator  : kaylap
Sample    : mc41696-1ms
Misc      : ms35361,msh2507,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Oct 06 08:53:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
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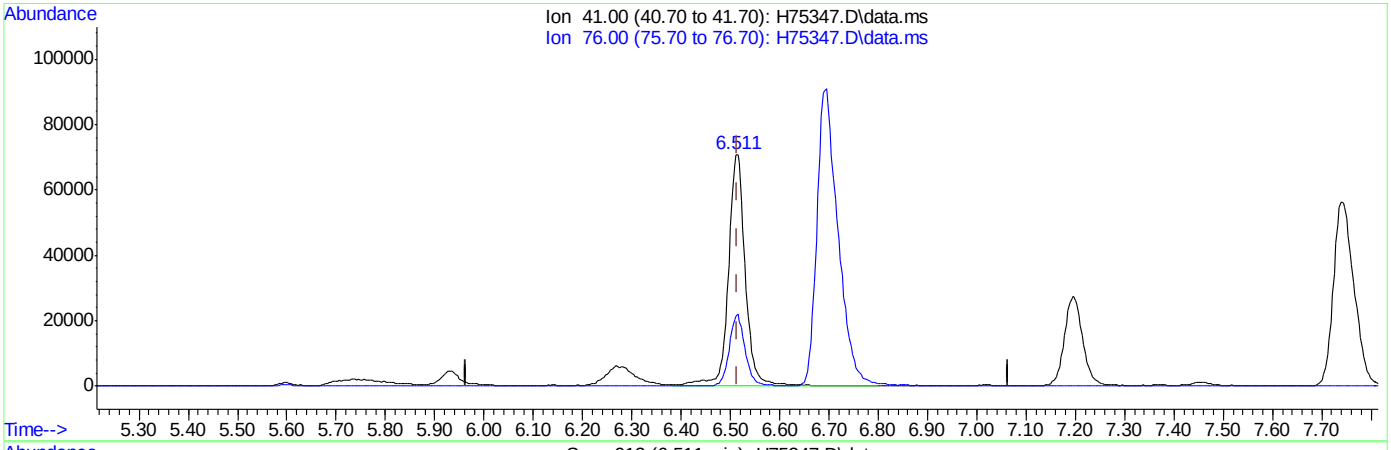
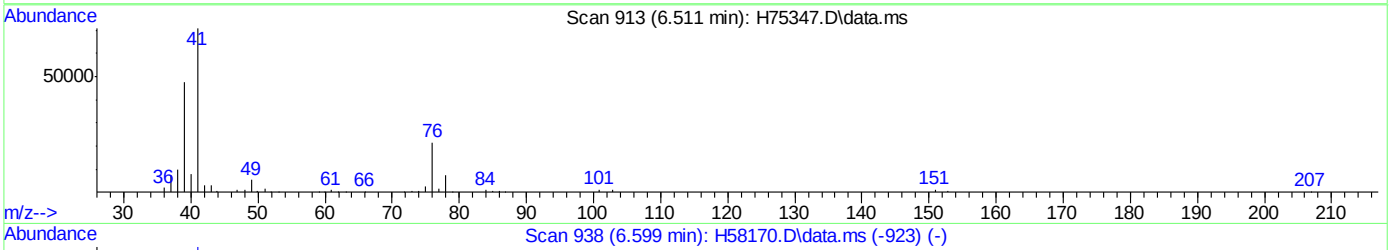
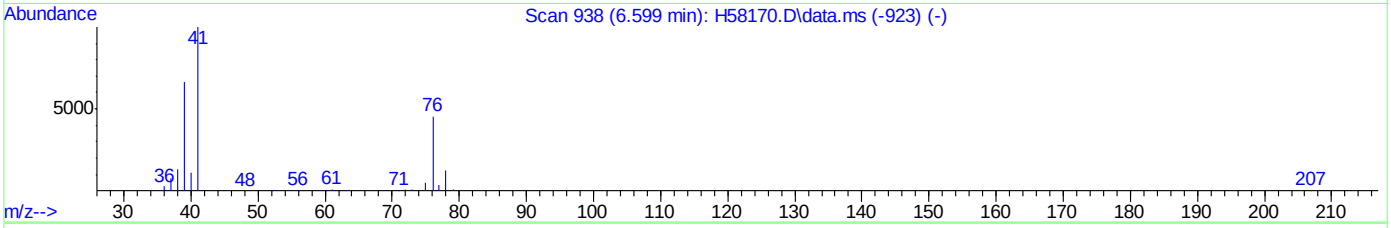






TIC: H75347.D\data.ms

(21) allyl chloride (p)

6.511min (-0.003) 53.71ug/L

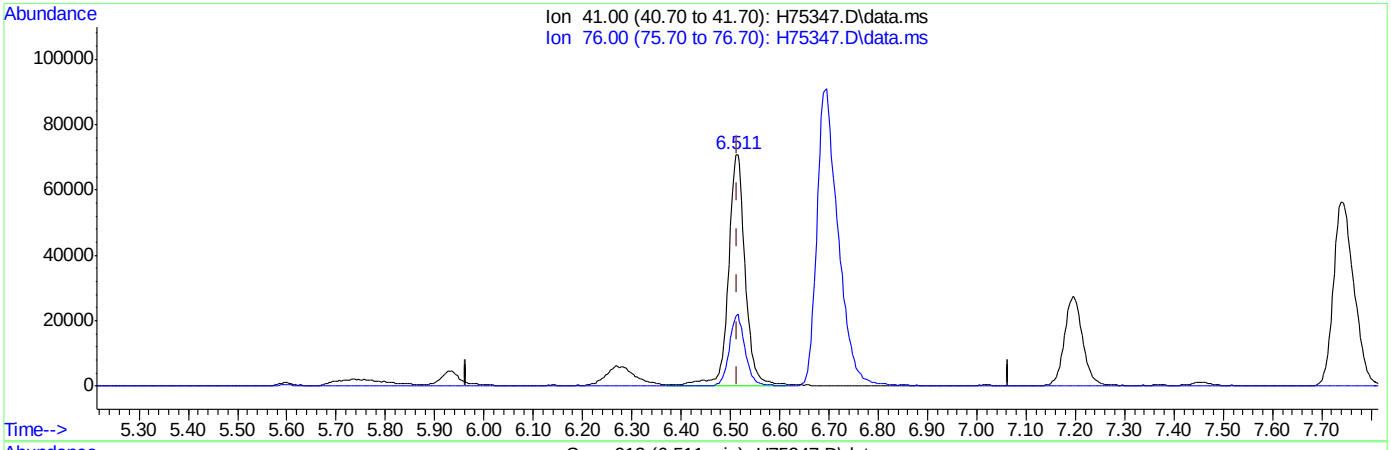
response 170761

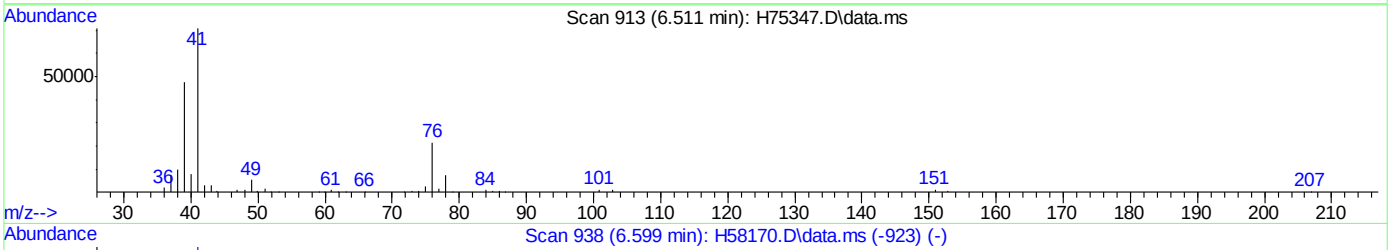
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.40
0.00	0.00	0.00
0.00	0.00	0.00

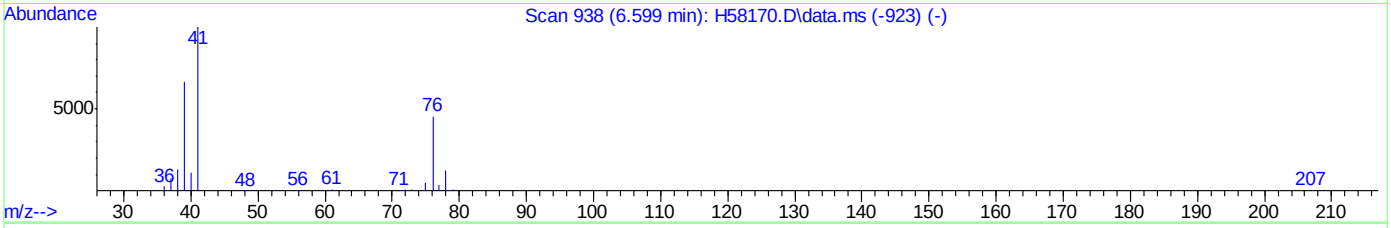
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75347.D
Acq On : 5 Oct 2015 8:13 pm
Operator : kaylap
Sample : mc41696-1ms
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 06 08:53:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75347.D\data.ms

(21) allyl chloride (p)

6.511min (-0.003) 52.97ug/L m

response 168389

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/06/15 16:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:56:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	80193	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	189164	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	293277	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	181045	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	159275	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	97682	51.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.14%			
60) toluene-d8 (s)	11.275	98	360963	50.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.48%			
82) bromofluorobenzene (s)	13.964	95	154675	49.03	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.06%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.279	59	88227	476.38	ug/L	95
3) Ethanol	5.104	45	102905	4231.99	ug/L	99
5) dichlorodifluoromethane	4.020	85	41249	20.06	ug/L	97
6) chloromethane	4.271	50	88165	49.53	ug/L	97
7) vinyl chloride	4.497	62	95635	48.44	ug/L	99
8) bromomethane	4.959	96	61794	52.68	ug/L	99
9) chloroethane	5.107	64	67850	56.33	ug/L	96
11) trichlorofluoromethane	5.696	101	138835	46.97	ug/L	100
12) freon-113	6.462	101	90467	48.24	ug/L	91
13) acrolein	5.689	56	51217	603.61	ug/L	99
14) 1,1-dichloroethene	6.272	96	86222	53.07	ug/L #	78
15) acetone	5.834	58	8788m	43.69	ug/L	
16) ethyl ether	5.933	59	81253	50.10	ug/L	85
17) methyl acetate	6.452	43	96009m	51.96	ug/L	
18) methylene chloride	6.448	84	106255	51.70	ug/L #	72
19) methyl tert butyl ether	7.196	73	261549	51.78	ug/L	88
20) acrylonitrile	6.335	53	39603	53.31	ug/L	88
21) allyl chloride	6.515	41	170156m	50.72	ug/L	
22) trans-1,2-dichloroethene	7.108	96	93552	51.69	ug/L	85
23) iodomethane	6.360	142	144707	49.74	ug/L	90
24) carbon disulfide	6.691	76	276034	46.48	ug/L	97
25) propionitrile	7.373	54	13044	48.36	ug/L	100
26) vinyl acetate	7.457	43	183934	51.62	ug/L	92
27) chloroprene	7.718	53	126298	40.38	ug/L	100
28) di-isopropyl ether	7.761	45	356962	53.53	ug/L	89
29) methacrylonitrile	7.870	41	60377	47.11	ug/L	94
30) 2-butanone	7.771	72	11046	48.71	ug/L #	53
31) 1,1-dichloroethane	7.355	63	185449	50.08	ug/L	93
32) tert-butyl ethyl ether	8.159	59	312147	50.33	ug/L	90
33) Hexane	7.743	41	162624	47.79	ug/L	89
34) isobutyl alcohol	8.156	43	61565	384.55	ug/L	83
35) 2,2-dichloropropane	8.212	77	137381	50.41	ug/L	95
36) cis-1,2-dichloroethene	7.923	96	105375	52.95	ug/L	88
37) ethyl acetate	8.156	43	60618	75.18	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:56:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.089	128	48591	50.04	ug/L	#	51
39)	chloroform	8.128	83	178907	50.27	ug/L		97
41)	1,1,1-trichloroethane	8.879	97	153487	54.18	ug/L		93
43)	cyclohexane	9.158	56	169179	48.67	ug/L	#	75
44)	carbon tetrachloride	9.239	117	130839	56.94	ug/L		95
45)	1,1-dichloropropene	9.052	75	127234	50.20	ug/L		92
46)	benzene	9.275	78	377969	50.69	ug/L		100
47)	tetrahydrofuran	8.459	42	29526	47.54	ug/L		92
48)	1,2-dichloroethane	8.777	62	138632	49.83	ug/L		100
49)	tert-amyl methyl ether	9.398	73	253416	50.00	ug/L		91
50)	heptane	9.762	43	124116	47.28	ug/L		91
51)	trichloroethene	9.896	95	102593	52.50	ug/L		80
52)	1,2-dichloropropane	9.864	63	105679	51.02	ug/L		95
53)	dibromomethane	9.836	93	63379	51.04	ug/L		96
54)	bromodichloromethane	9.949	83	126336	50.82	ug/L		96
55)	methylcyclohexane	10.414	83	151967	47.88	ug/L		87
57)	methyl methacrylate	10.054	69	62987	48.58	ug/L		91
58)	1,4-dioxane	10.058	88	3393	197.29	ug/L	#	67
59)	cis-1,3-dichloropropene	10.573	75	145458	52.41	ug/L		90
61)	4-methyl-2-pentanone	10.668	43	109618	52.14	ug/L		92
62)	toluene	11.349	92	225789	49.57	ug/L		99
63)	trans-1,3-dichloropropene	10.997	75	130188	46.46	ug/L		100
64)	1,1,2-trichloroethane	11.162	83	76628	50.55	ug/L		89
65)	ethyl methacrylate	11.378	69	125204	50.45	ug/L		93
67)	tetrachloroethene	12.087	166	105731	48.98	ug/L		91
68)	1,3-dichloropropane	11.399	76	158874	49.01	ug/L		98
69)	dibromochloromethane	11.688	129	92245	43.21	ug/L		95
70)	1,2-dibromoethane	11.935	107	90837	47.58	ug/L		93
71)	2-hexanone	11.529	43	72227	46.10	ug/L		94
72)	chlorobenzene	12.768	112	264948	46.11	ug/L		89
73)	1,1,1,2-tetrachloroethane	12.687	131	88973	50.05	ug/L		93
74)	ethylbenzene	12.948	91	444521	48.23	ug/L		96
75)	m,p-xylene	13.135	106	314378	90.91	ug/L		99
76)	o-xylene	13.544	106	152338	42.93	ug/L		95
77)	styrene	13.474	104	169222	28.35	ug/L		96
78)	bromoform	13.294	173	57818	48.19	ug/L		100
79)	trans-1,4-dichloro-2-b...	13.703	53	30889	44.95	ug/L		93
81)	isopropylbenzene	13.908	105	422171	45.65	ug/L		99
83)	bromobenzene	14.190	156	115607	45.23	ug/L	#	83
84)	1,1,2,2-tetrachloroethane	13.548	83	109828	48.71	ug/L		97
85)	1,2,3-trichloropropane	13.696	75	123497	48.23	ug/L		95
86)	n-propylbenzene	14.356	91	482640	44.25	ug/L		94
87)	2-chlorotoluene	14.469	91	299531	45.91	ug/L		90
88)	4-chlorotoluene	14.547	91	315664	45.99	ug/L		90
89)	1,3,5-trimethylbenzene	14.635	105	279862	38.52	ug/L		99
90)	tert-butylbenzene	14.938	91	212896	48.07	ug/L		91
91)	1,2,4-trimethylbenzene	15.044	105	315289	43.25	ug/L		99
92)	sec-butylbenzene	15.161	105	439782	46.69	ug/L		97
93)	1,3-dichlorobenzene	15.259	146	202544	46.83	ug/L		98
94)	p-isopropyltoluene	15.337	119	357517	45.15	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:56:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.326	146	216614	45.91	ug/L	99
96) 1,2-dichlorobenzene	15.697	146	190415	48.48	ug/L	99
97) n-butylbenzene	15.757	91	334534	47.65	ug/L	91
98) 1,2-dibromo-3-chloropr...	16.180	75	11651	51.95	ug/L	86
99) 1,3,5-trichlorobenzene	16.992	180	110222	45.68	ug/L	95
100) 1,2,4-trichlorobenzene	17.550	180	63795	51.83	ug/L	98
101) hexachlorobutadiene	17.850	225	45134	49.25	ug/L	96
102) naphthalene	17.825	128	94378	51.10	ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	63795	51.83	ug/L	99

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

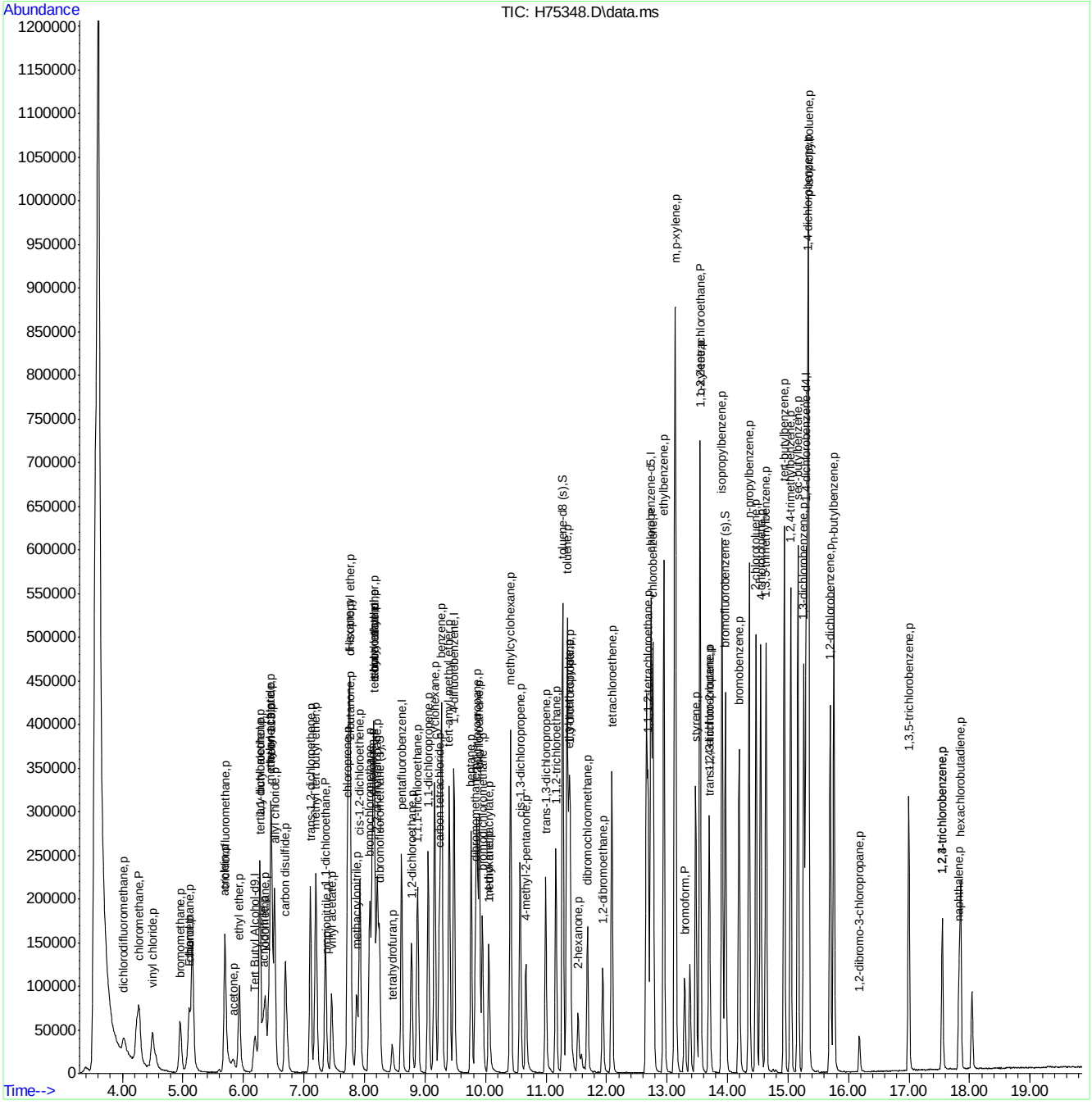
7.4.2

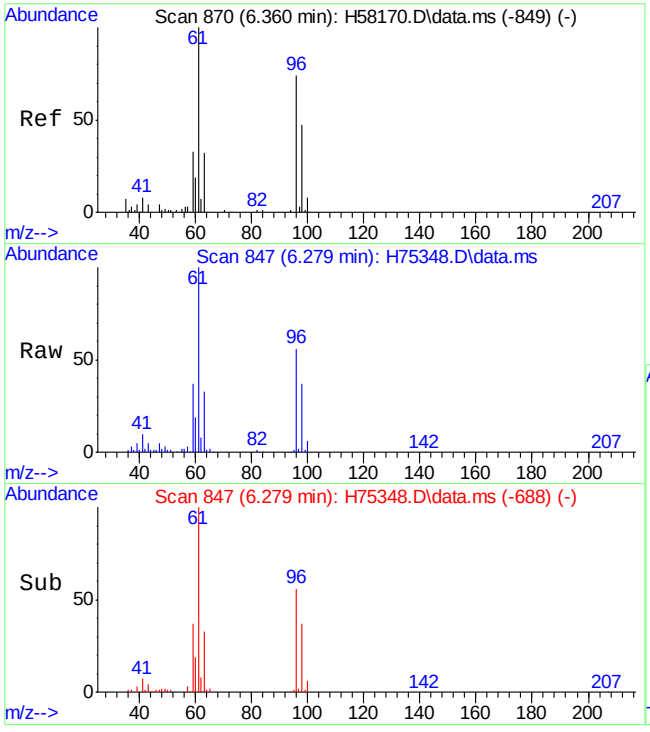
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:56:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

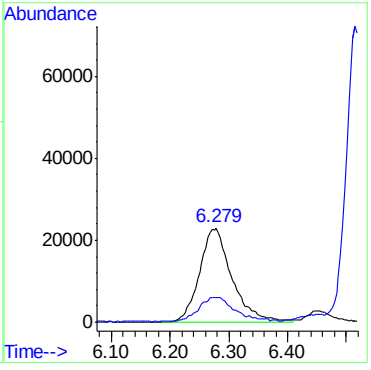


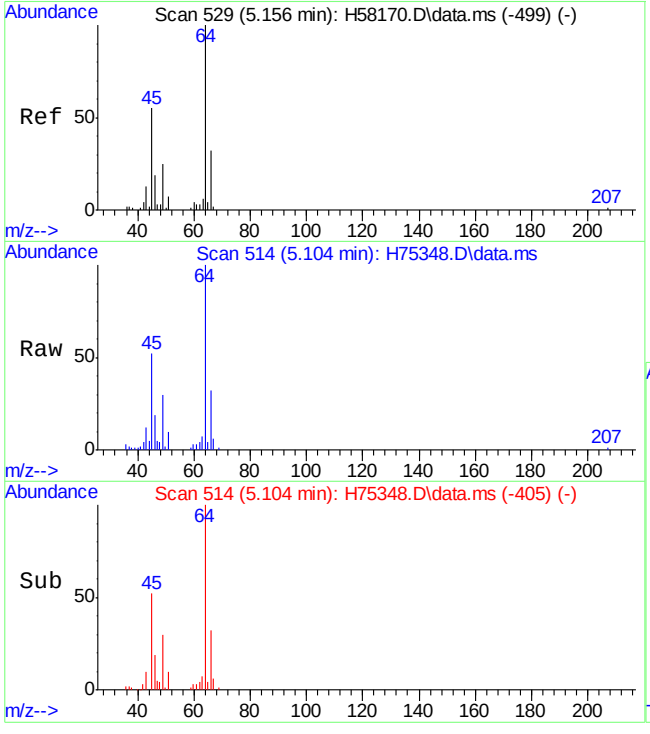


#2
tertiary butyl alcohol
Concen: 476.38 ug/L
RT: 6.279 min Scan# 847
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 59 Resp: 88227

Ion	Ratio	Lower	Upper
59	100		
41	24.9	0.0	57.4

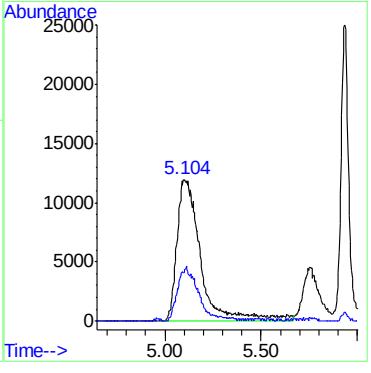


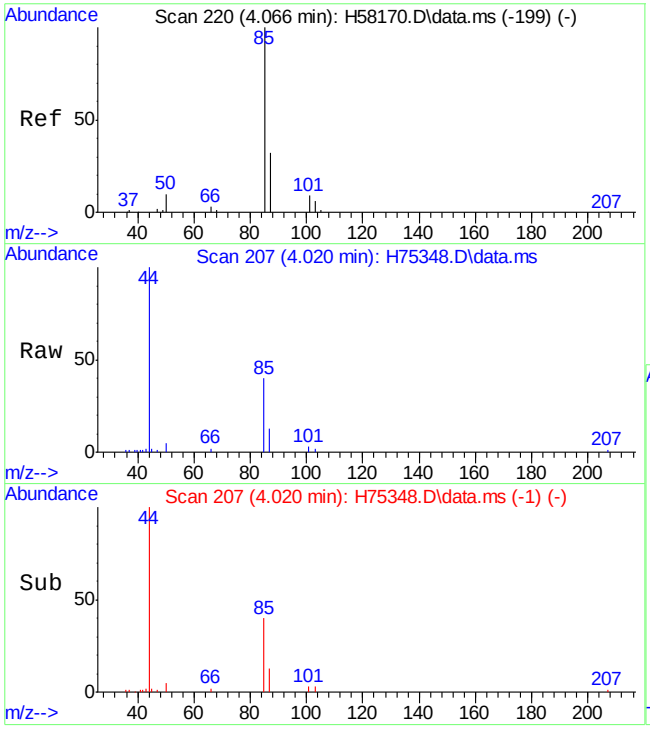


#3
Ethanol
Concen: 4231.99 ug/L
RT: 5.104 min Scan# 514
Delta R.T. -0.016 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 45 Resp: 102905

Ion	Ratio	Lower	Upper
45	100		
46	34.0	27.7	41.5

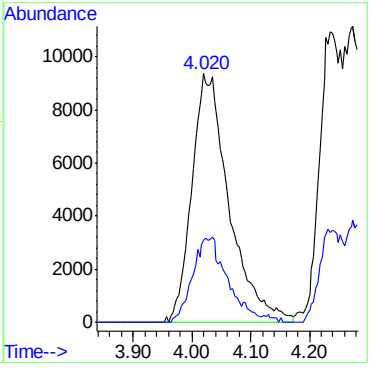


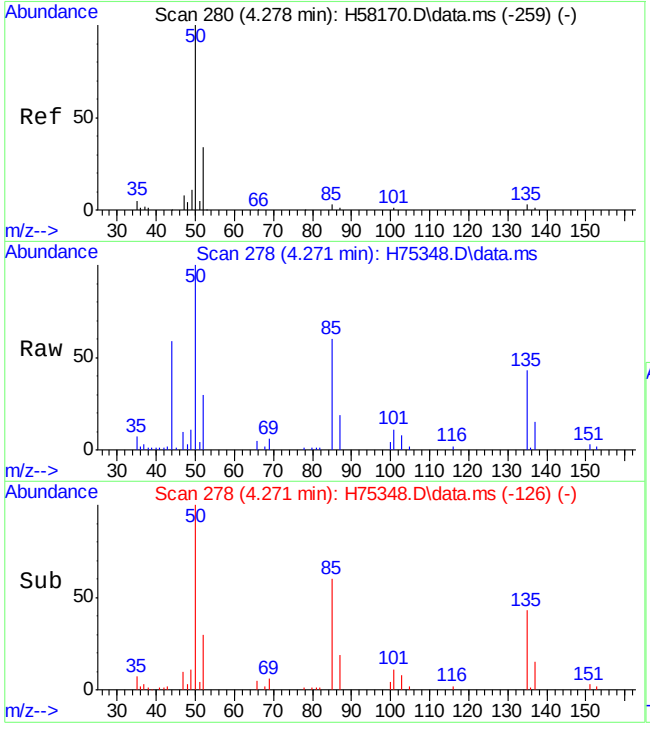


#5
dichlorodifluoromethane
Concen: 20.06 ug/L
RT: 4.020 min Scan# 207
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 85 Resp: 41249

Ion	Ratio	Lower	Upper
85	100		
87	33.0	1.5	61.5

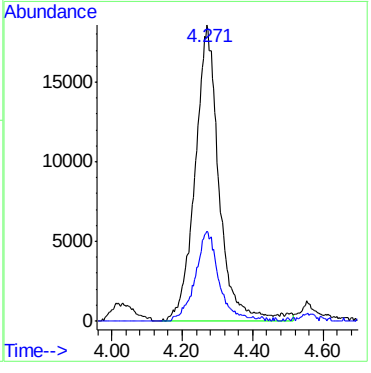


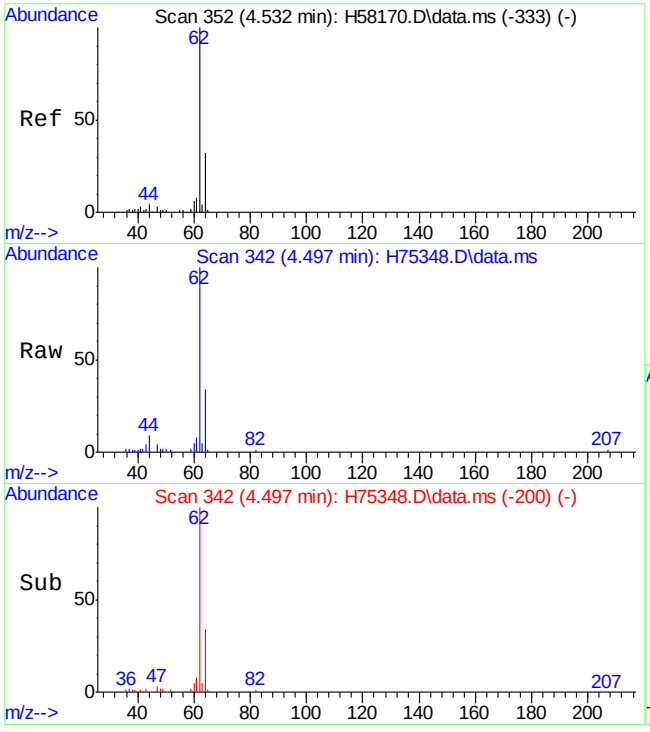


#6
chloromethane
Concen: 49.53 ug/L
RT: 4.271 min Scan# 278
Delta R.T. 0.008 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 50 Resp: 88165

Ion	Ratio	Lower	Upper
50	100		
52	30.2	1.7	61.7

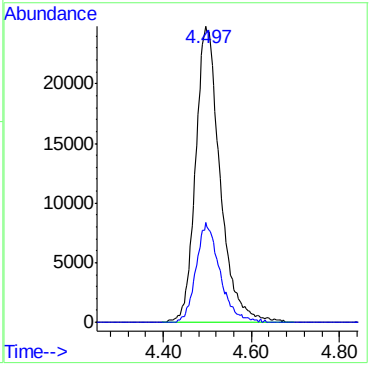


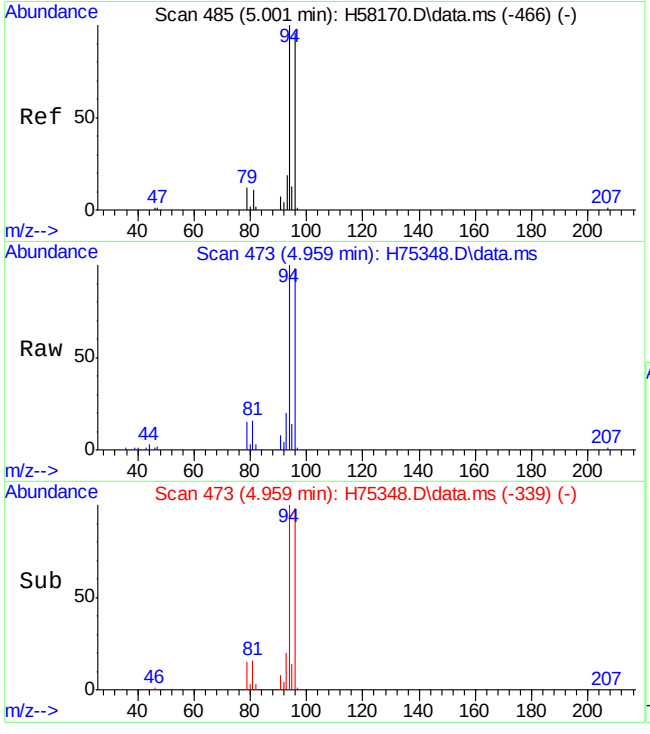


#7
vinyl chloride
Concen: 48.44 ug/L
RT: 4.497 min Scan# 342
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 62 Resp: 95635

Ion	Ratio	Lower	Upper
62	100		
64	33.9	3.2	63.2

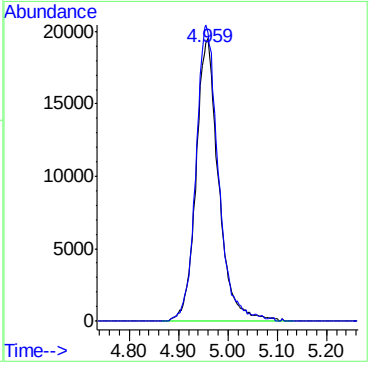


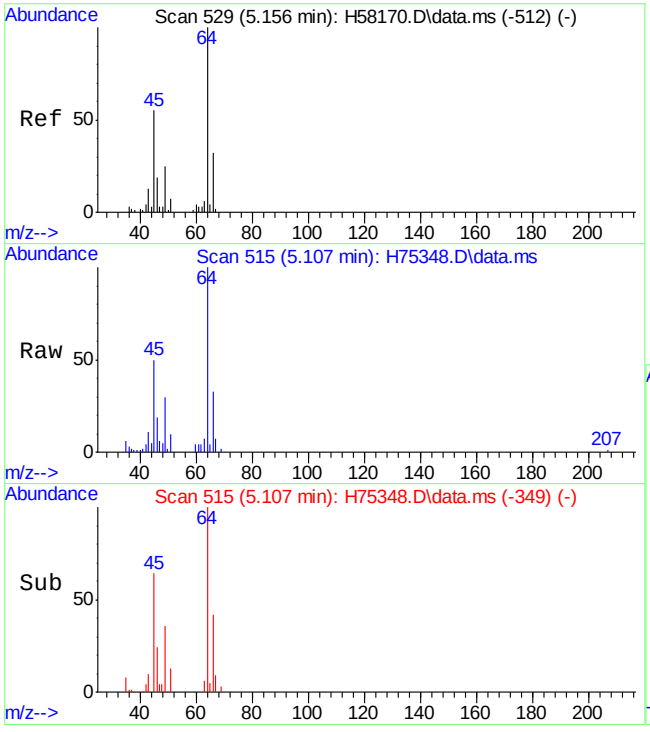


#8
bromomethane
Concen: 52.68 ug/L
RT: 4.959 min Scan# 473
Delta R.T. 0.012 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 96 Resp: 61794

Ion	Ratio	Lower	Upper
96	100		
94	102.1	72.8	132.8

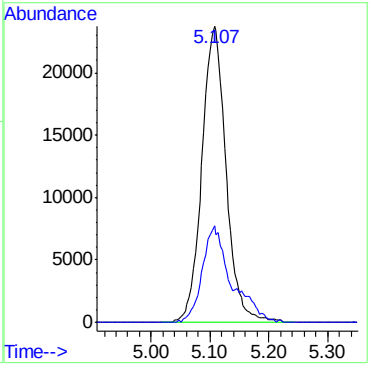


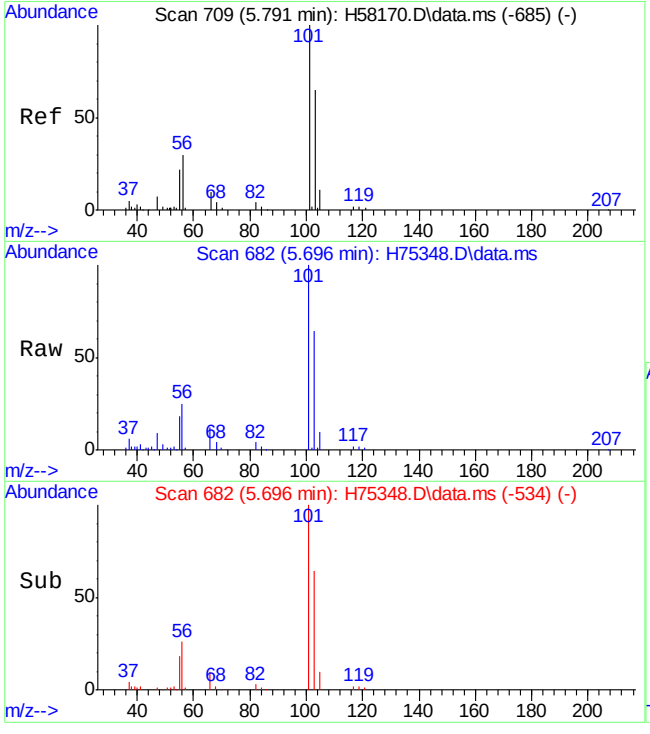


#9
chloroethane
Concen: 56.33 ug/L
RT: 5.107 min Scan# 515
Delta R.T. 0.004 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 64 Resp: 67850

Ion	Ratio	Lower	Upper
64	100		
66	32.7	0.3	60.3

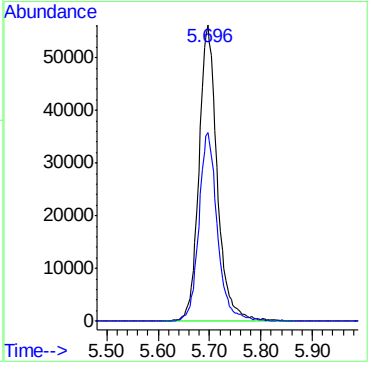




#11
trichlorofluoromethane
Concen: 46.97 ug/L
RT: 5.696 min Scan# 682
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

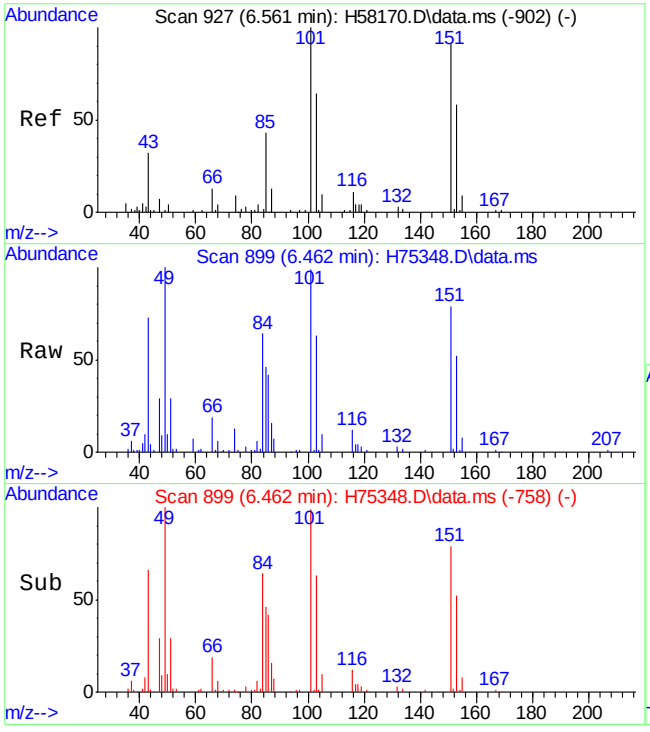
Tgt Ion:101 Resp: 138835

Ion	Ratio	Lower	Upper
101	100		
103	63.7	33.5	93.5



7.4.2

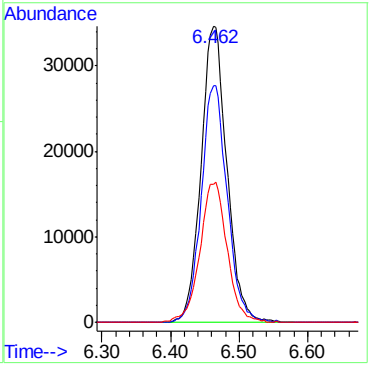
7

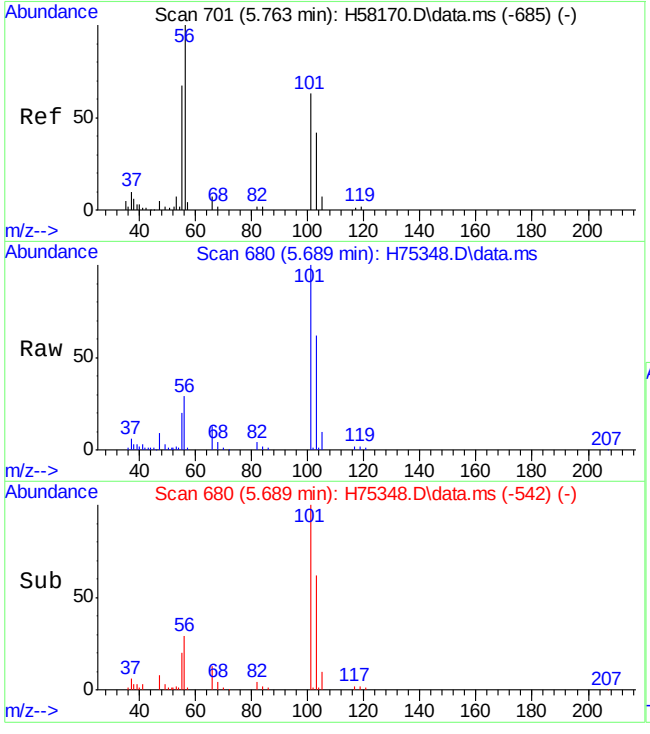


#12
freon-113
Concen: 48.24 ug/L
RT: 6.462 min Scan# 899
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:101 Resp: 90467

Ion	Ratio	Lower	Upper
101	100		
151	79.9	57.8	117.8
85	46.7	10.8	70.8

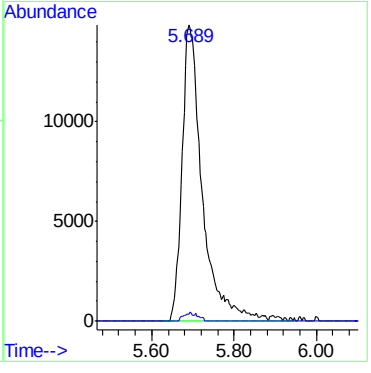


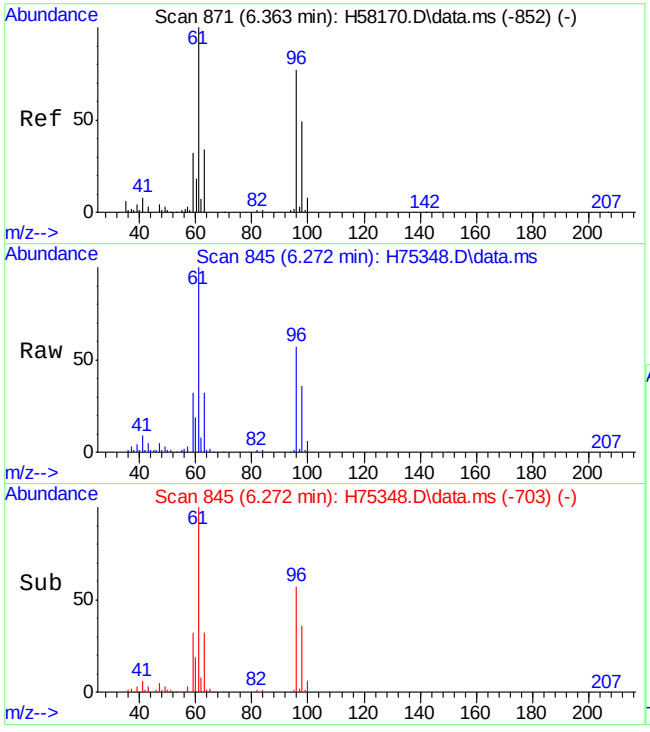


#13
acrolein
Concen: 603.61 ug/L
RT: 5.689 min Scan# 680
Delta R.T. -0.014 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 56 Resp: 51217

Ion	Ratio	Lower	Upper
56	100		
52	2.4	0.0	32.7

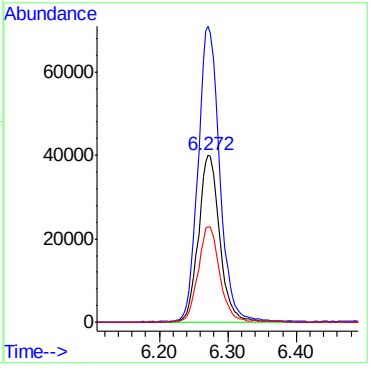


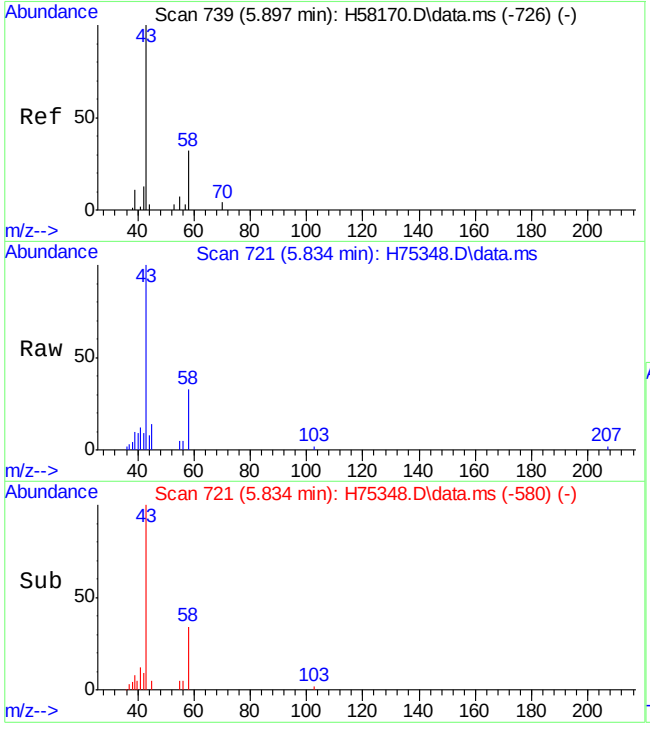


#14
1,1-dichloroethene
Concen: 53.07 ug/L
RT: 6.272 min Scan# 845
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 96 Resp: 86222

Ion	Ratio	Lower	Upper
96	100		
61	176.1	114.6	174.6#
63	57.1	18.4	78.4

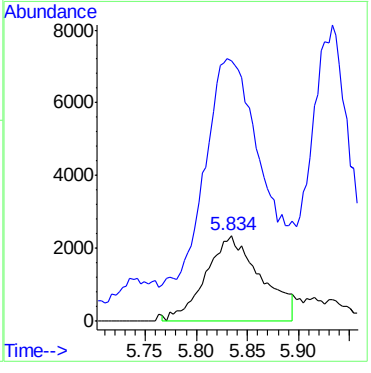




#15
acetone
Concen: 43.69 ug/L m
RT: 5.834 min Scan# 721
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 58 Resp: 8788

Ion	Ratio	Lower	Upper
58	100		
43	303.5	270.8	330.8



7.4.2

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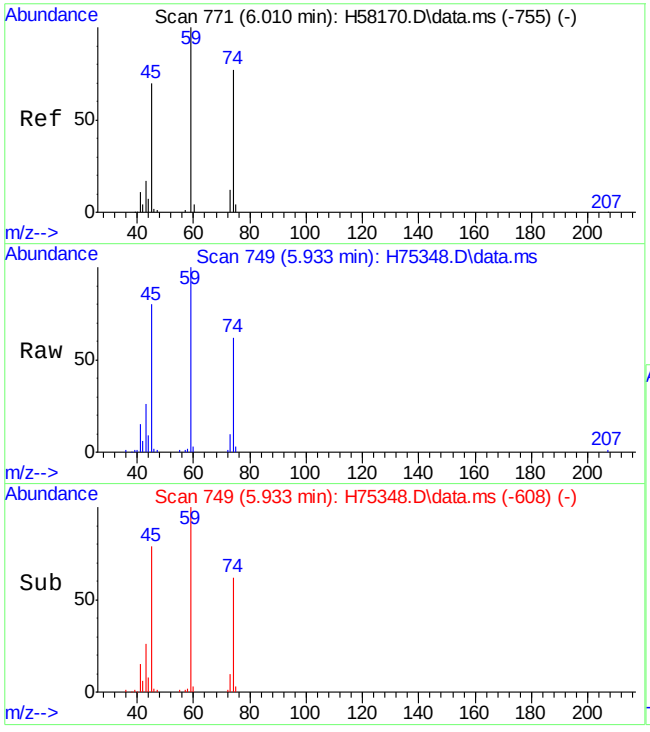
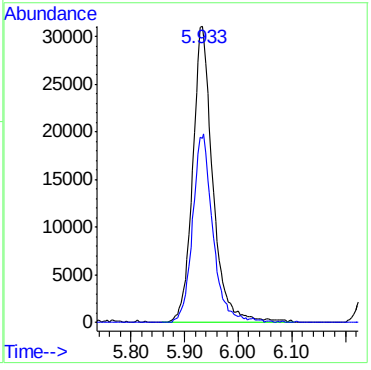
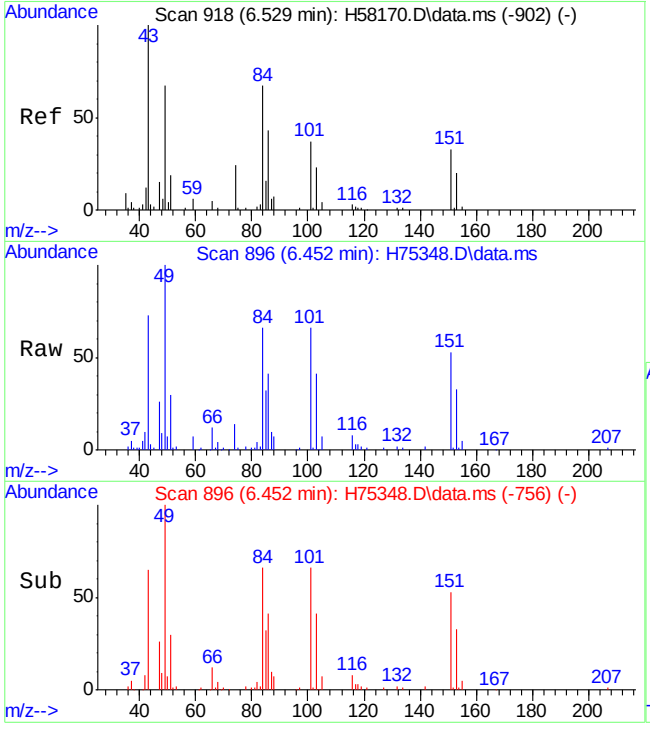


#16
ethyl ether
Concen: 50.10 ug/L
RT: 5.933 min Scan# 749
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 59 Resp: 81253

Ion	Ratio	Lower	Upper
59	100		
74	62.2	45.0	105.0

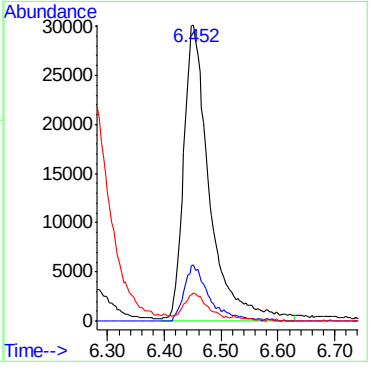




#17
methyl acetate
Concen: 51.96 ug/L m
RT: 6.452 min Scan# 896
Delta R.T. -0.007 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 96009

Ion	Ratio	Lower	Upper
43	100		
74	19.0	5.4	45.4
59	9.4	0.0	33.3



7.4.2

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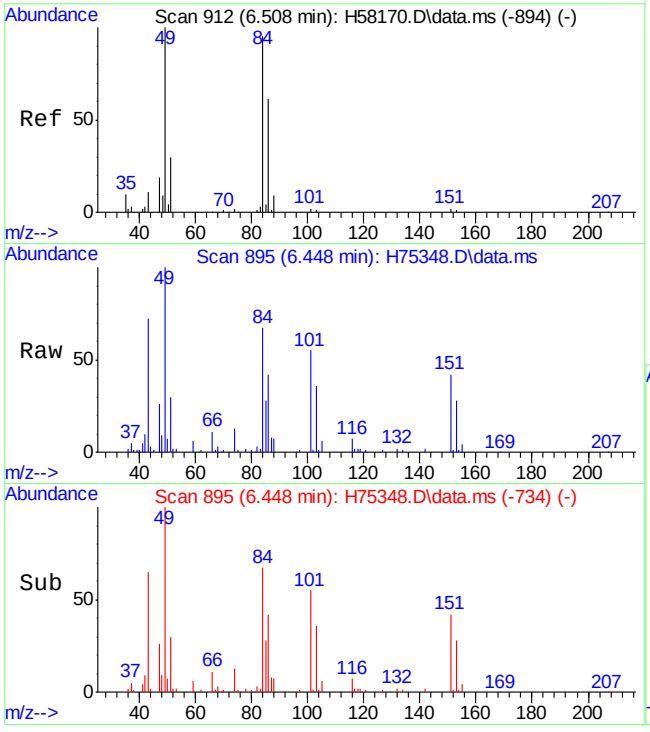
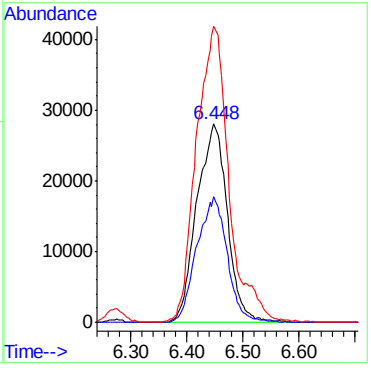
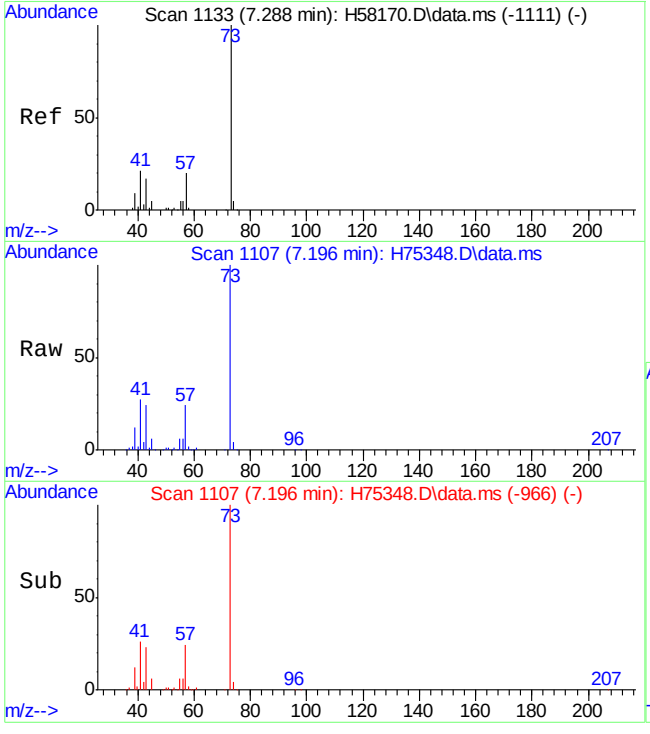


#18
methylene chloride
Concen: 51.70 ug/L
RT: 6.448 min Scan# 895
Delta R.T. 0.008 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 84 Resp: 106255

Ion	Ratio	Lower	Upper
84	100		
86	63.3	28.8	88.8
49	149.3	77.5	137.5#

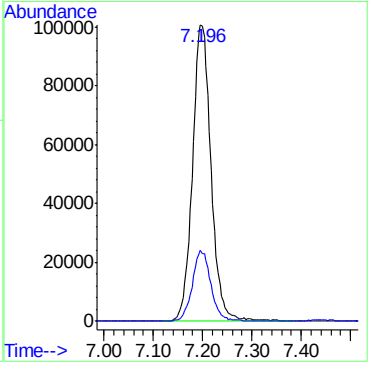




#19
methyl tert butyl ether
Concen: 51.78 ug/L
RT: 7.196 min Scan# 1107
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 73 Resp: 261549

Ion	Ratio	Lower	Upper
73	100		
57	24.0	0.0	48.6



7.4.2

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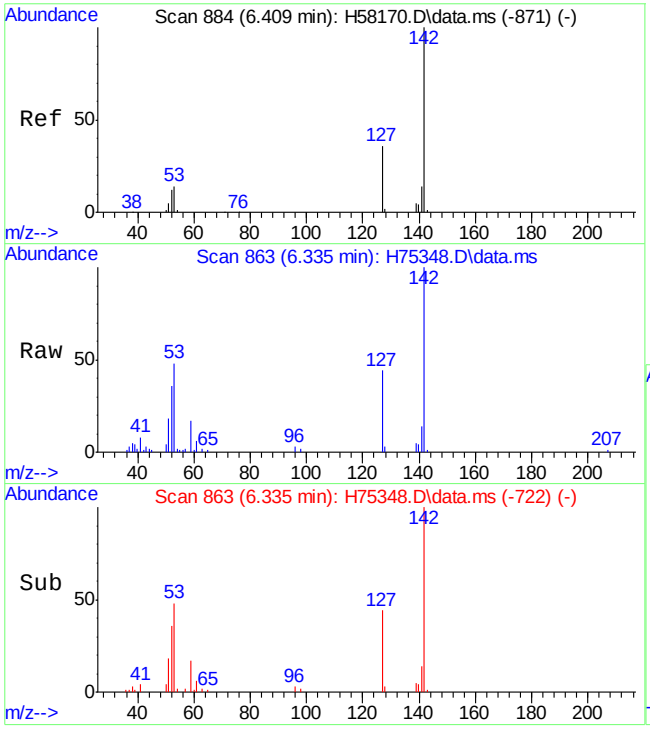
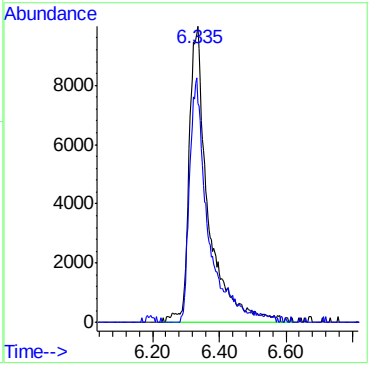
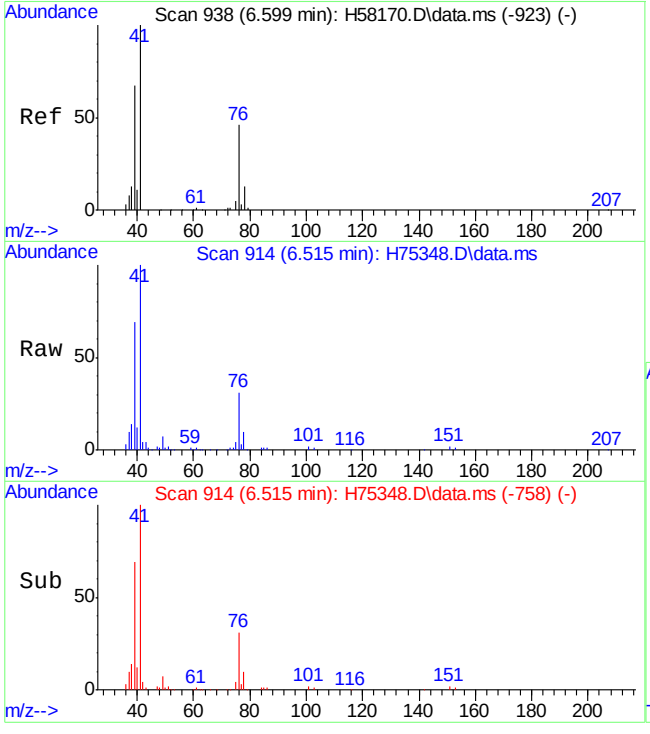


#20
acrylonitrile
Concen: 53.31 ug/L
RT: 6.335 min Scan# 863
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 53 Resp: 39603

Ion	Ratio	Lower	Upper
53	100		
52	74.1	54.8	114.8

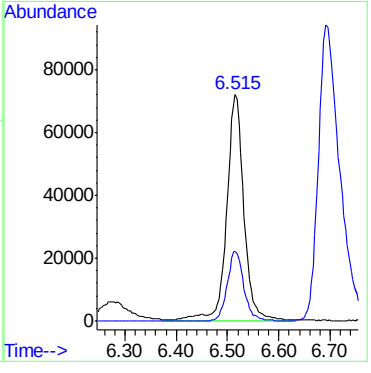




#21
allyl chloride
Concen: 50.72 ug/L m
RT: 6.515 min Scan# 914
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 41 Resp: 170156

Ion	Ratio	Lower	Upper
41	100		
76	30.7	7.8	67.8



7.4.2

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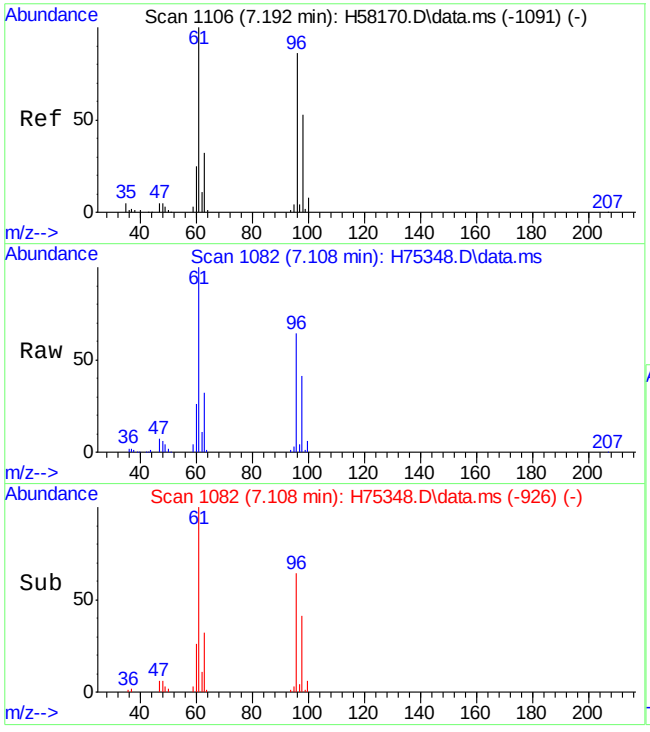
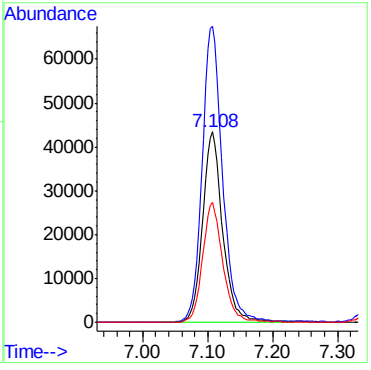
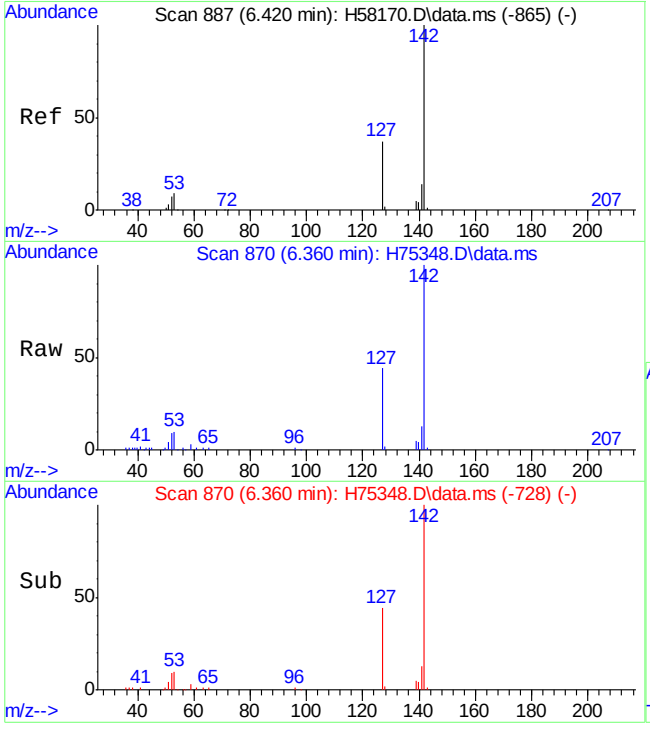


#22
trans-1,2-dichloroethene
Concen: 51.69 ug/L
RT: 7.108 min Scan# 1082
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 96 Resp: 93552

Ion	Ratio	Lower	Upper
96	100		
61	155.6	99.9	159.9
98	63.1	34.7	94.7

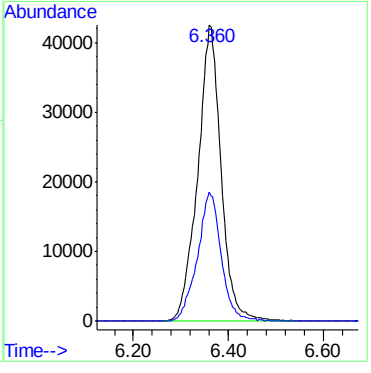




#23
iodomethane
Concen: 49.74 ug/L
RT: 6.360 min Scan# 870
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:142 Resp: 144707

Ion	Ratio	Lower	Upper
142	100		
127	43.7	20.4	80.4



7.4.2

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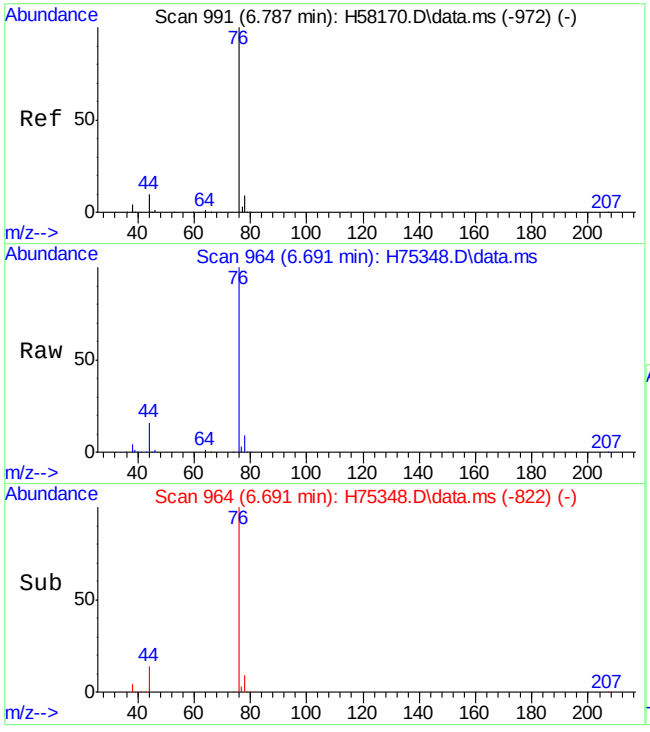
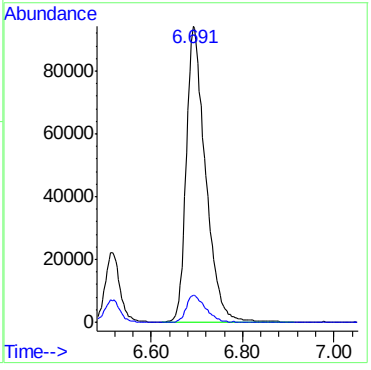
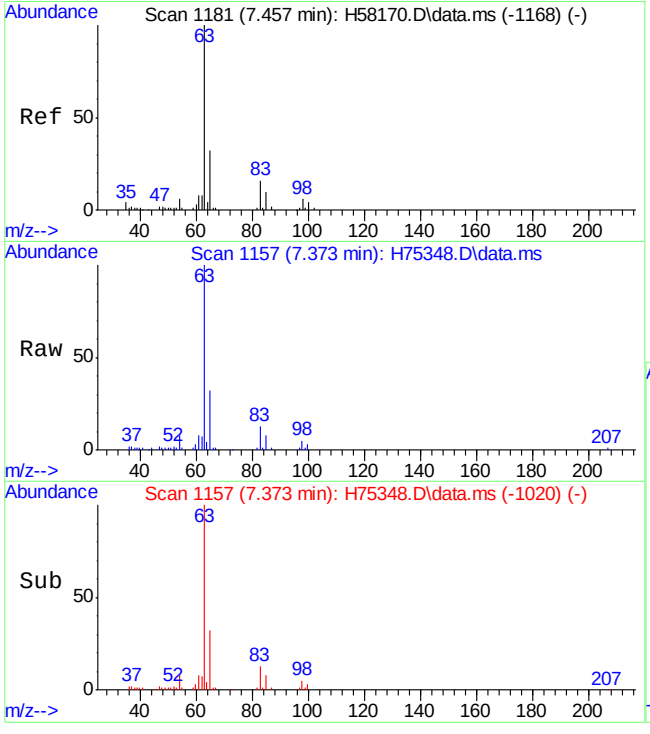


#24
carbon disulfide
Concen: 46.48 ug/L
RT: 6.691 min Scan# 964
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 76 Resp: 276034

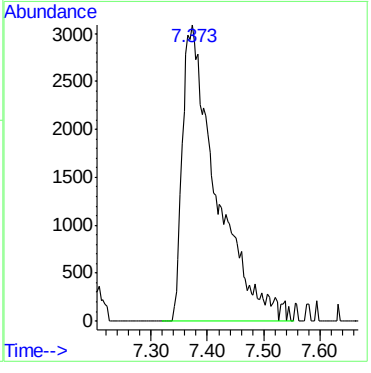
Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	40.1

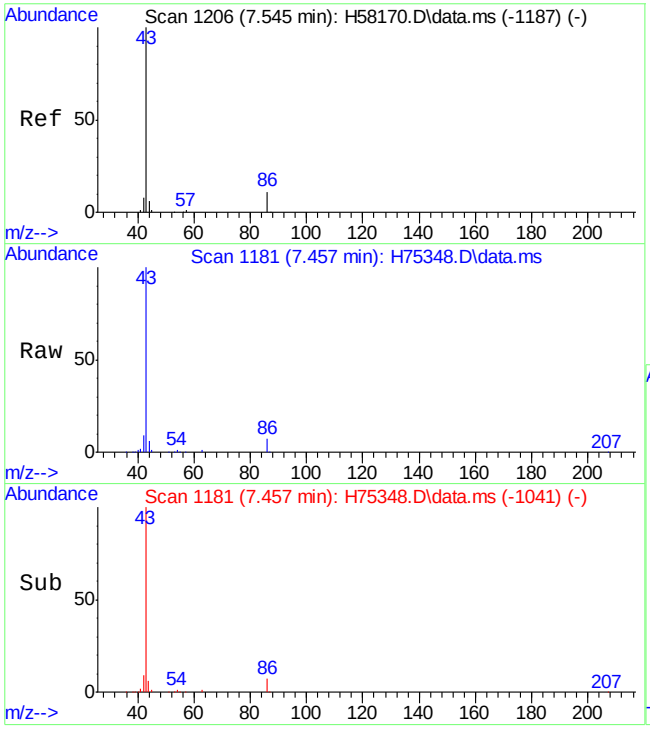




#25
propionitrile
Concen: 48.36 ug/L
RT: 7.373 min Scan# 1157
Delta R.T. -0.016 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 54 Resp: 13044

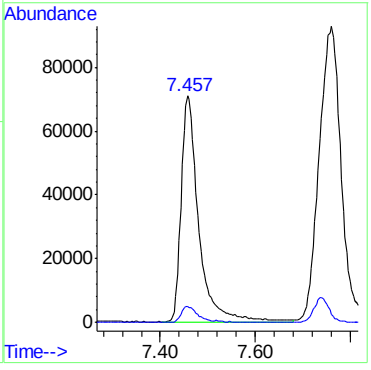


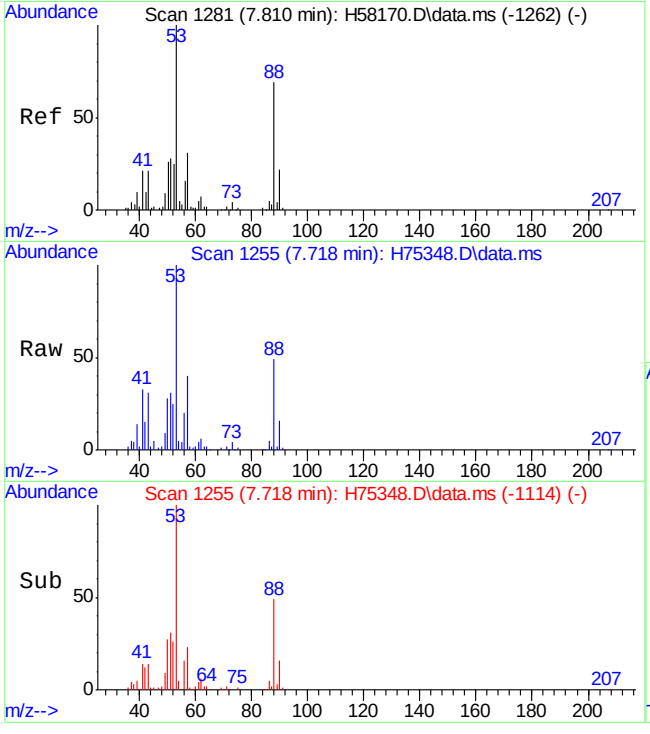


#26
vinyl acetate
Concen: 51.62 ug/L
RT: 7.457 min Scan# 1181
Delta R.T. -0.007 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 183934

Ion	Ratio	Lower	Upper
43	100		
86	6.8	0.0	39.7

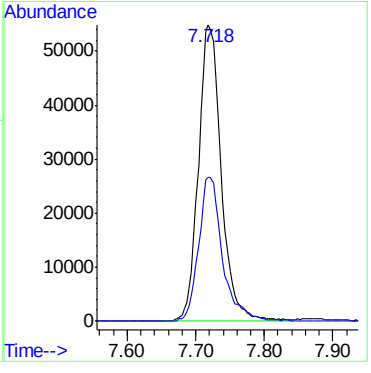




#27
chloroprene
Concen: 40.38 ug/L
RT: 7.718 min Scan# 1255
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 53 Resp: 126298

Ion	Ratio	Lower	Upper
53	100		
88	48.7	19.0	79.0



7.4.2

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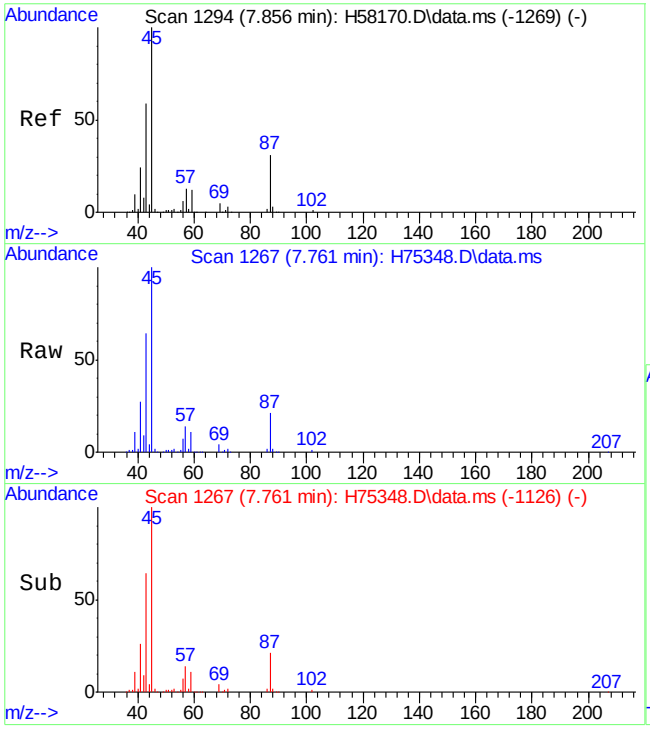
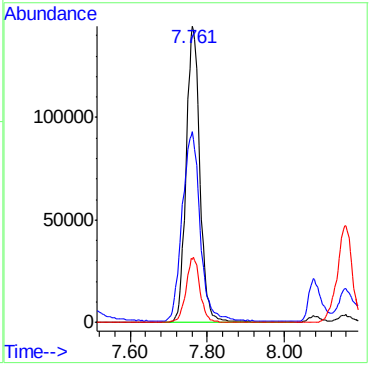
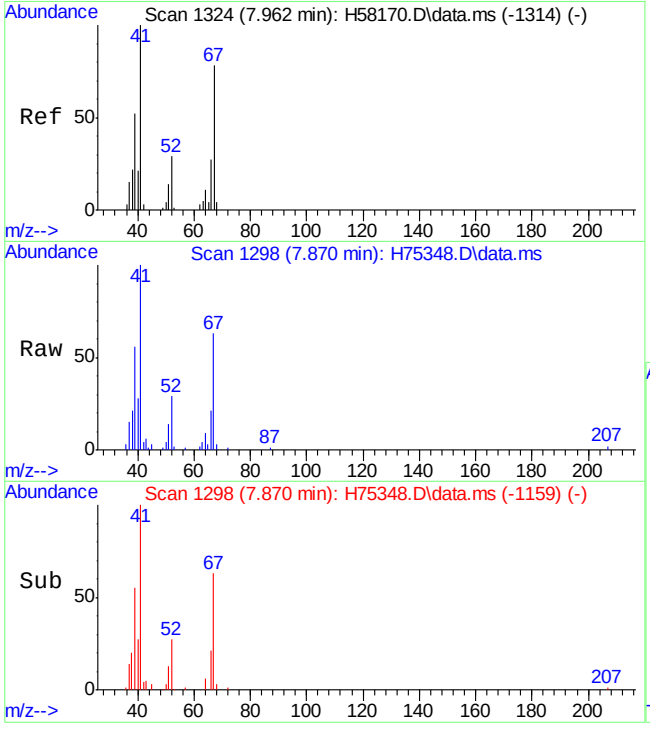


#28
di-isopropyl ether
Concen: 53.53 ug/L
RT: 7.761 min Scan# 1267
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 45 Resp: 356962

Ion	Ratio	Lower	Upper
45	100		
43	64.0	39.0	99.0
87	21.2	2.5	62.5

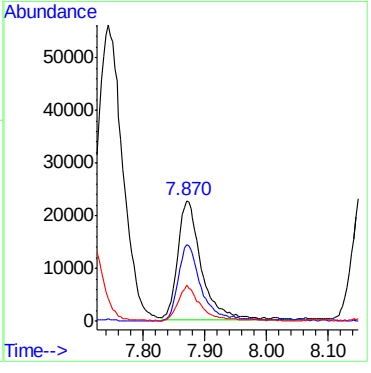




#29
methacrylonitrile
Concen: 47.11 ug/L
RT: 7.870 min Scan# 1298
Delta R.T. -0.010 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 41 Resp: 60377

Ion	Ratio	Lower	Upper
41	100		
67	64.0	28.1	88.1
52	29.9	0.0	59.4



7.4.2

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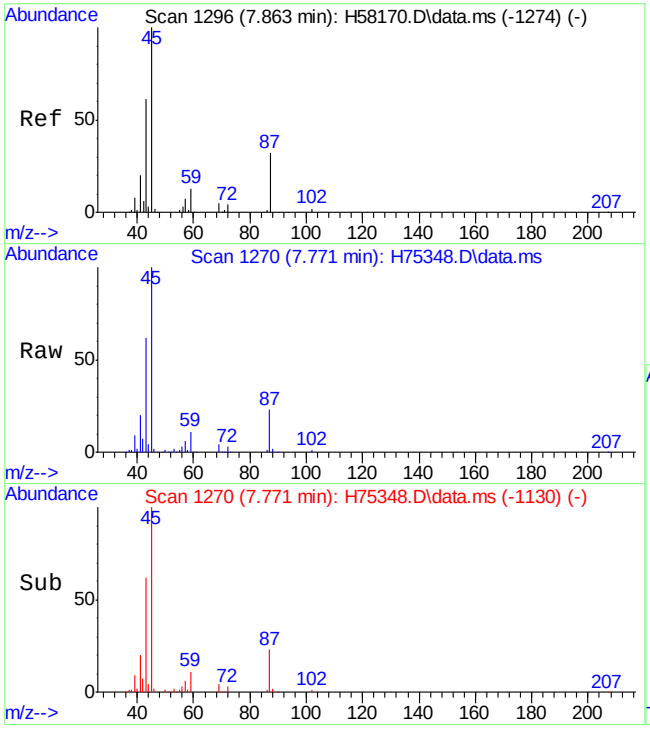
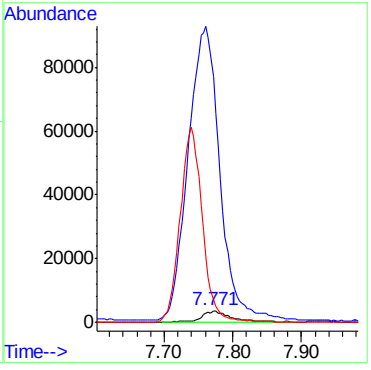
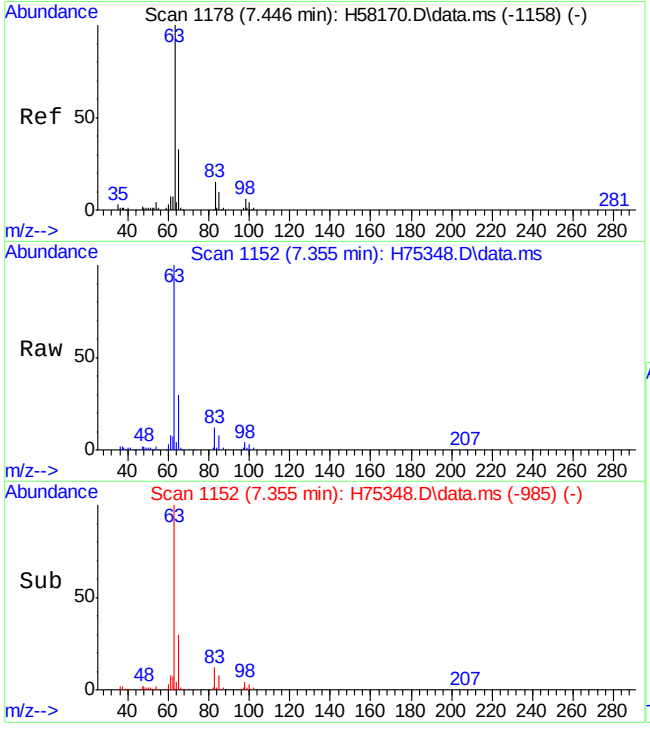


#30
2-butanone
Concen: 48.71 ug/L
RT: 7.771 min Scan# 1270
Delta R.T. -0.007 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 72 Resp: 11046

Ion	Ratio	Lower	Upper
72	100		
43	2135.2	1755.5	1815.5#
57	200.8	164.5	224.5

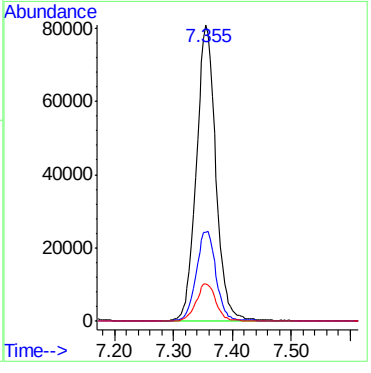




#31
1,1-dichloroethane
Concen: 50.08 ug/L
RT: 7.355 min Scan# 1152
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 63 Resp: 185449

Ion	Ratio	Lower	Upper
63	100		
65	29.8	2.1	62.1
83	12.4	0.0	47.3



7.4.2

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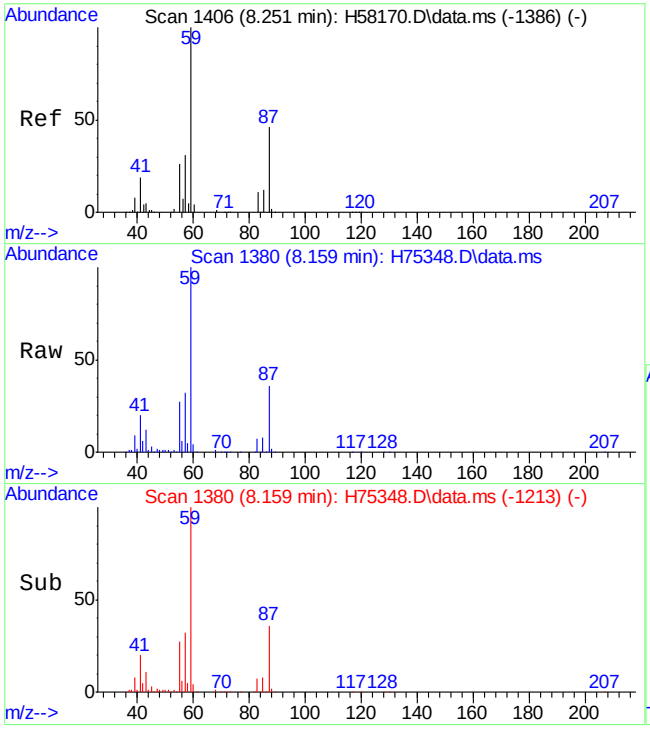
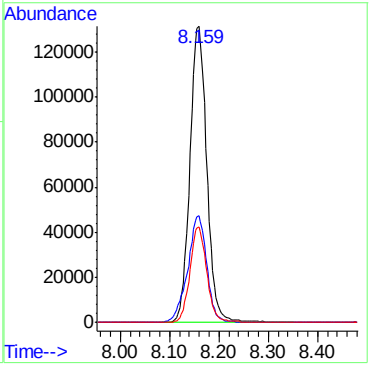
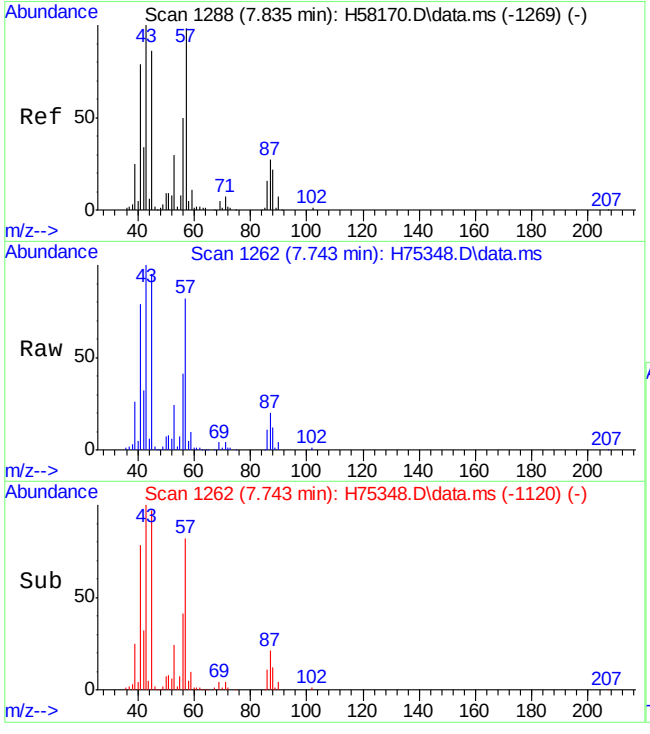


#32
tert-butyl ethyl ether
Concen: 50.33 ug/L
RT: 8.159 min Scan# 1380
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 59 Resp: 312147

Ion	Ratio	Lower	Upper
59	100		
87	36.0	13.5	73.5
57	32.1	0.0	58.1

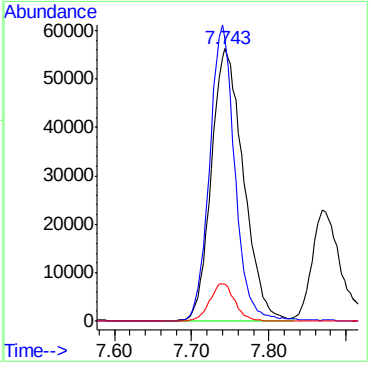




#33
Hexane
Concen: 47.79 ug/L
RT: 7.743 min Scan# 1262
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 41 Resp: 162624

Ion	Ratio	Lower	Upper
41	100		
57	85.5	60.5	90.7
86	10.7	10.4	15.6



7.4.2

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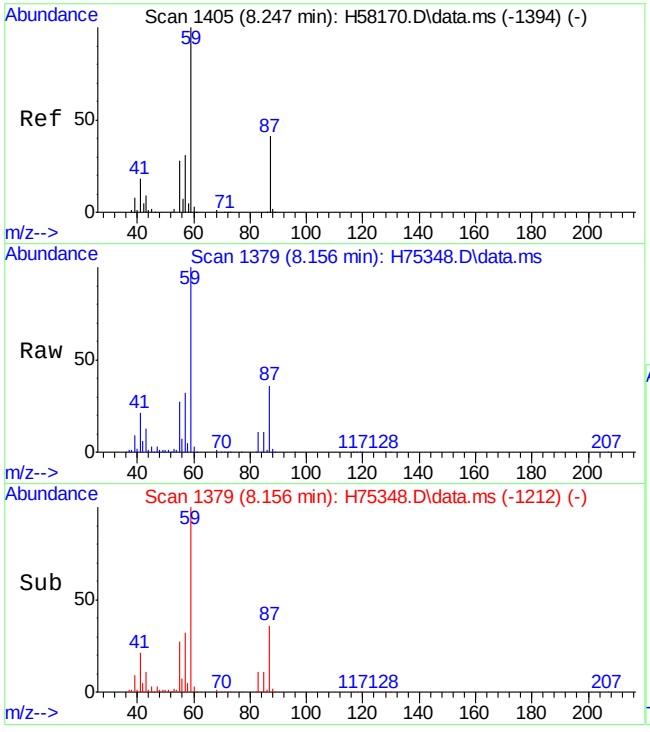
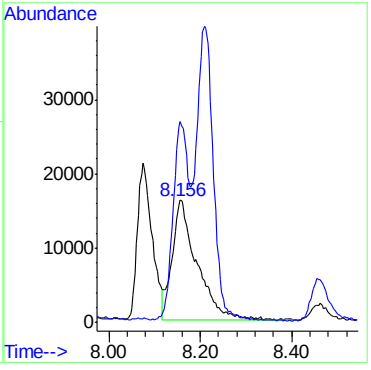
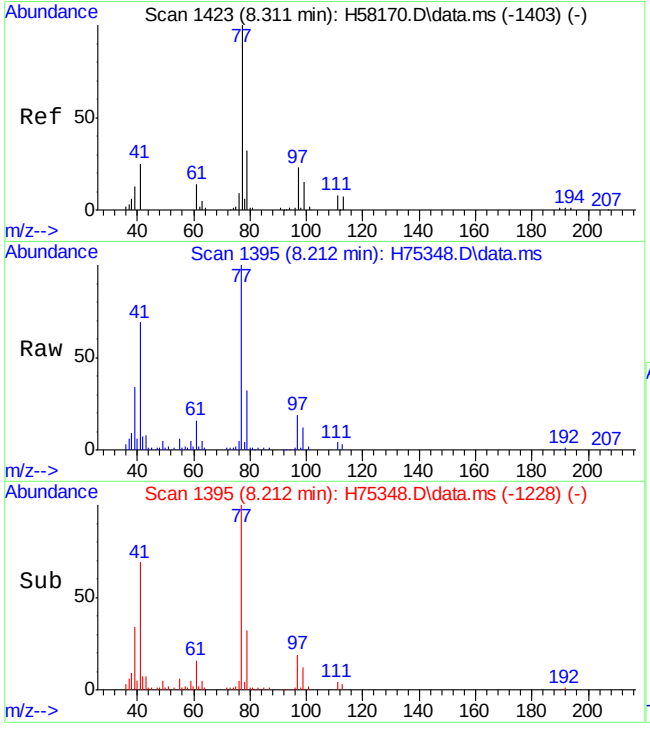


#34
isobutyl alcohol
Concen: 384.55 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.002 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 61565

Ion	Ratio	Lower	Upper
43	100		
41	167.0	115.6	175.6

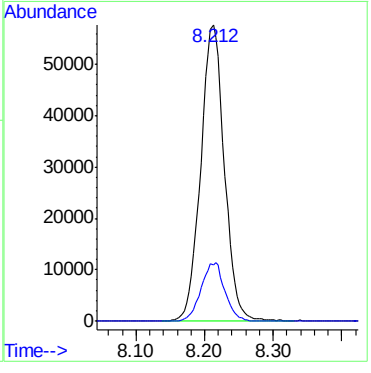




#35
2,2-dichloropropane
Concen: 50.41 ug/L
RT: 8.212 min Scan# 1395
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 77 Resp: 137381

Ion	Ratio	Lower	Upper
77	100		
97	19.1	0.0	51.6



7.4.2

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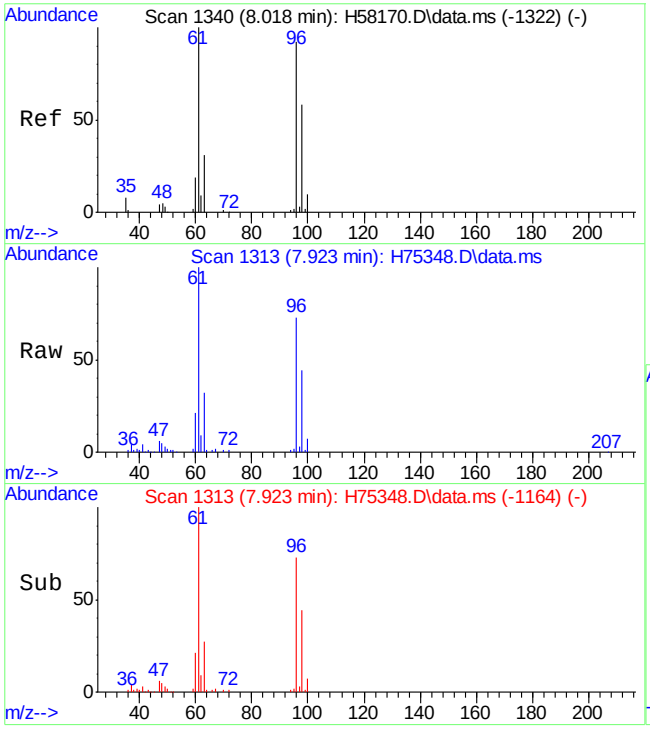
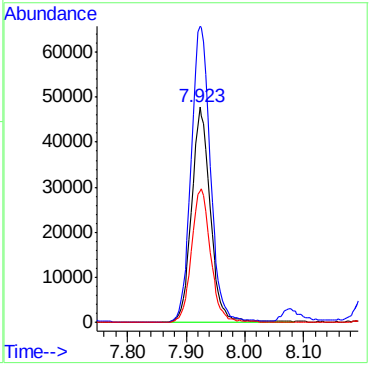
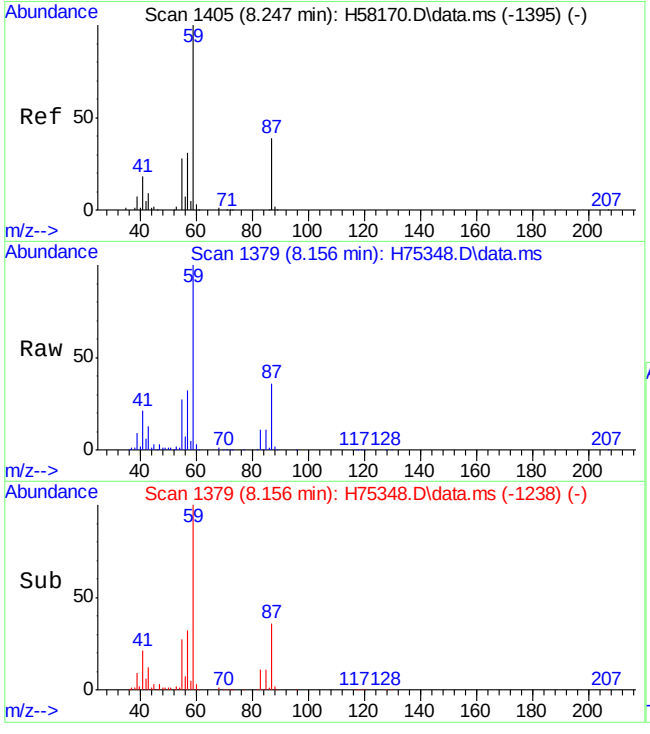


#36
cis-1,2-dichloroethene
Concen: 52.95 ug/L
RT: 7.923 min Scan# 1313
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 96 Resp: 105375

Ion	Ratio	Lower	Upper
96	100		
61	137.6	90.6	150.6
98	61.2	35.0	95.0

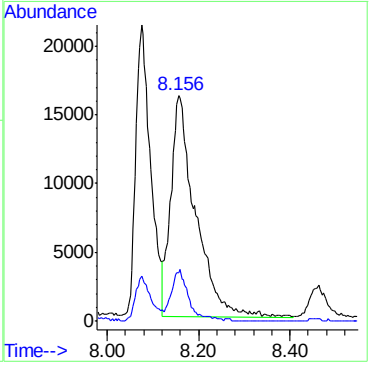




#37
ethyl acetate
Concen: 75.18 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.002 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 60618

Ion	Ratio	Lower	Upper
43	100		
45	21.9	0.0	51.5



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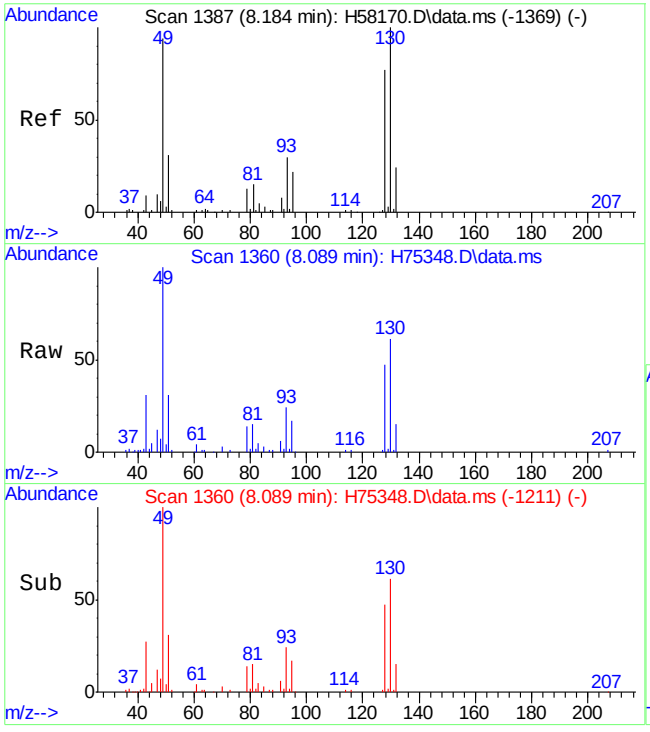
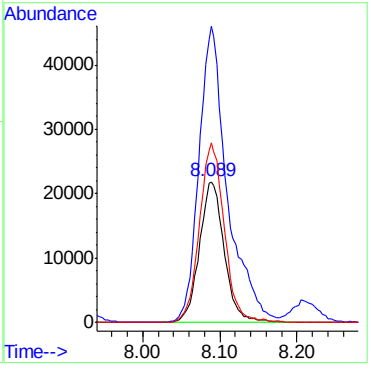
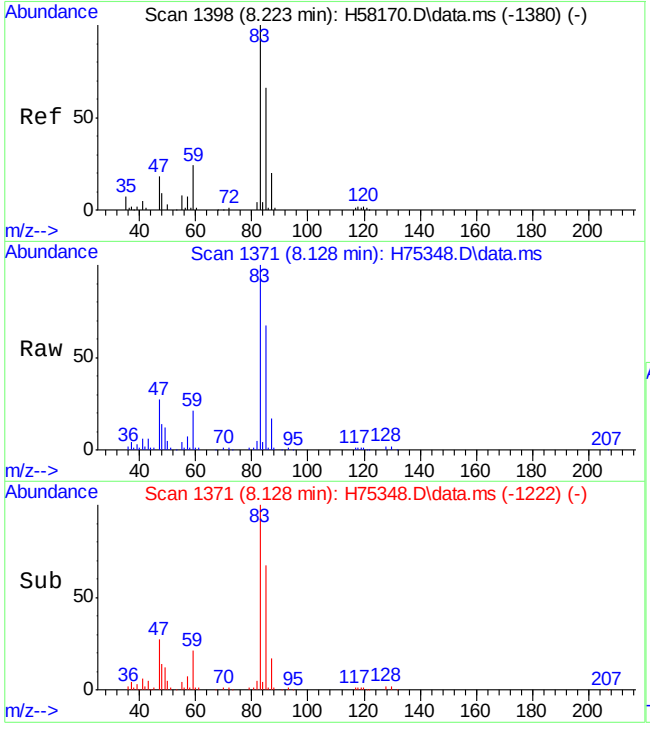


#38
bromochloromethane
Concen: 50.04 ug/L
RT: 8.089 min Scan# 1360
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:128 Resp: 48591

Ion	Ratio	Lower	Upper
128	100		
49	211.0	72.6	132.6#
130	127.7	102.2	162.2

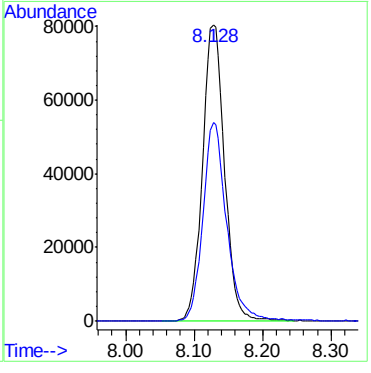


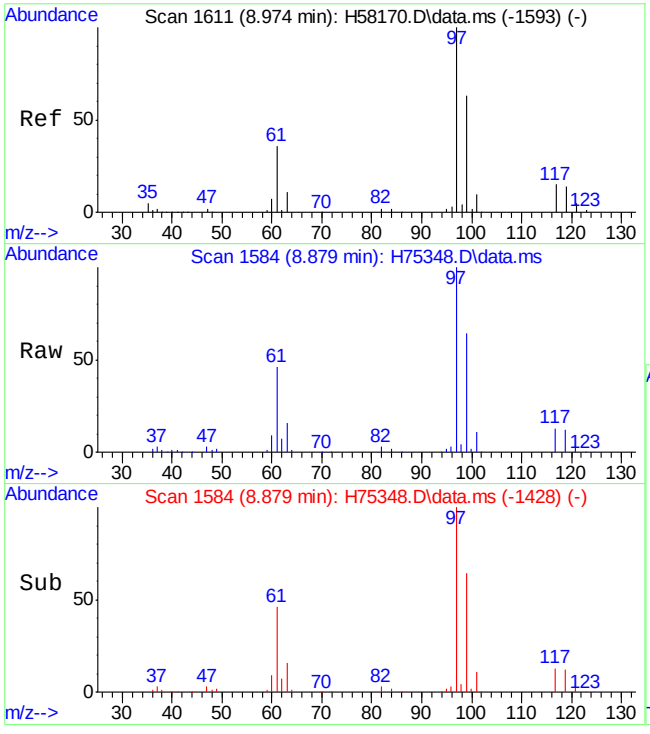


#39
chloroform
Concen: 50.27 ug/L
RT: 8.128 min Scan# 1371
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 83 Resp: 178907

Ion	Ratio	Lower	Upper
83	100		
85	67.1	35.0	95.0

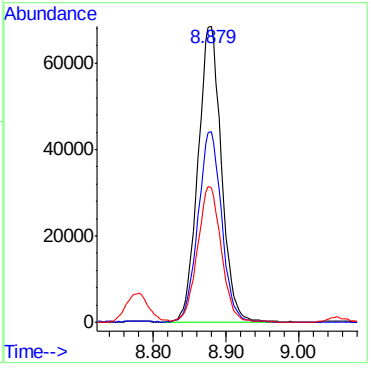


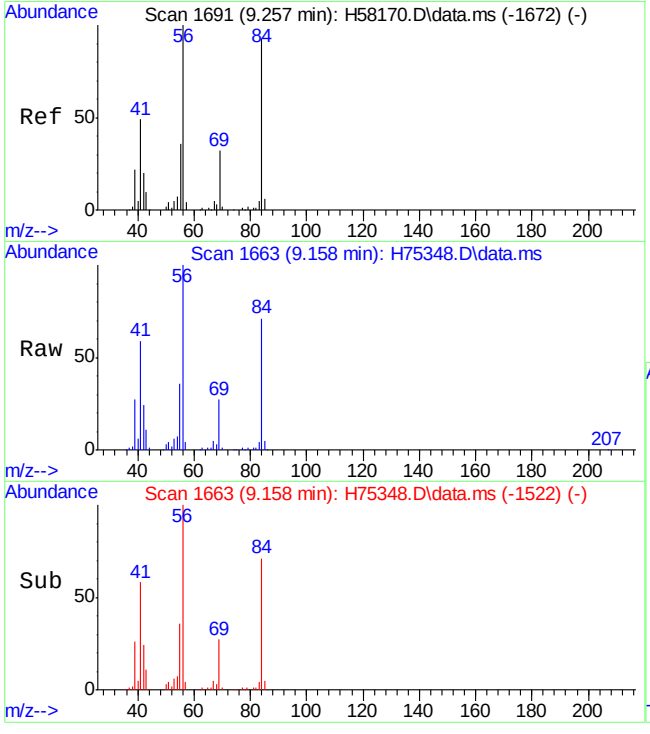


#41
1,1,1-trichloroethane
Concen: 54.18 ug/L
RT: 8.879 min Scan# 1584
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 97 Resp: 153487

Ion	Ratio	Lower	Upper
97	100		
99	64.2	32.9	92.9
61	45.5	5.4	65.4

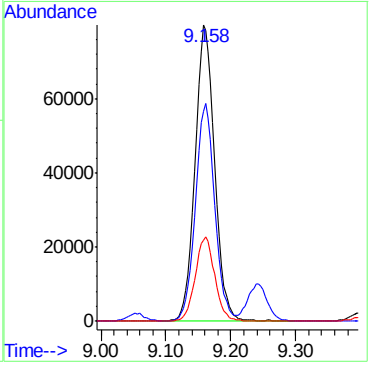




#43
cyclohexane
Concen: 48.67 ug/L
RT: 9.158 min Scan# 1663
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 56 Resp: 169179

Ion	Ratio	Lower	Upper
56	100		
84	71.0	81.1	121.1#
69	27.1	13.4	53.4



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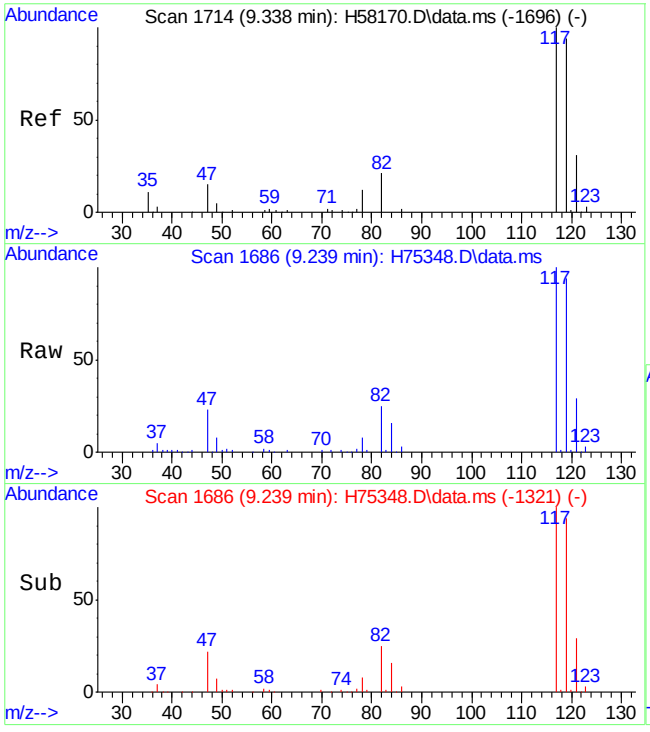
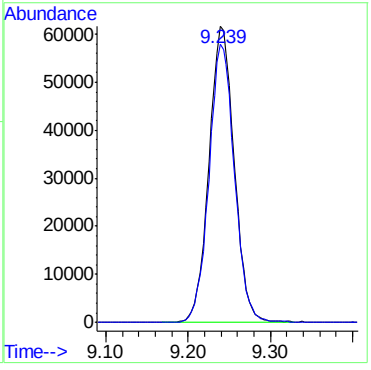
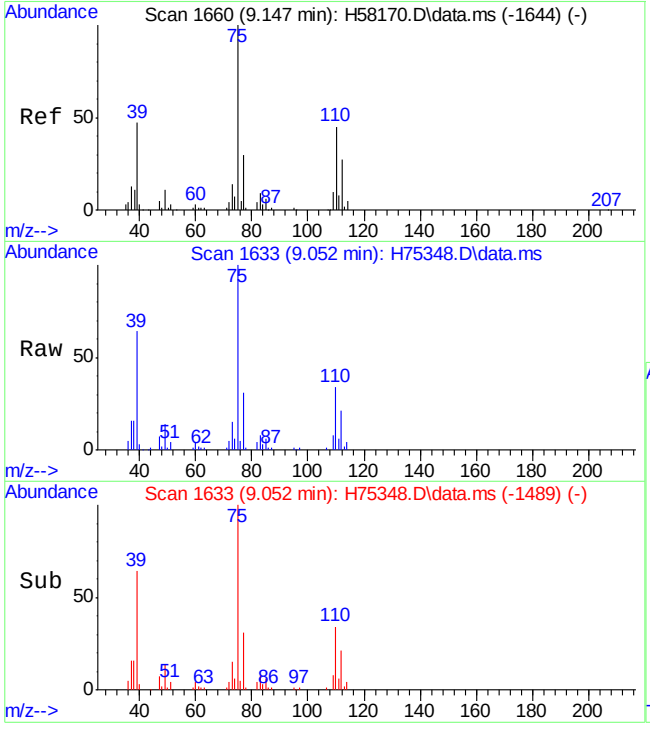


#44
carbon tetrachloride
Concen: 56.94 ug/L
RT: 9.239 min Scan# 1686
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:117 Resp: 130839

Ion	Ratio	Lower	Upper
117	100		
119	94.1	69.0	129.0

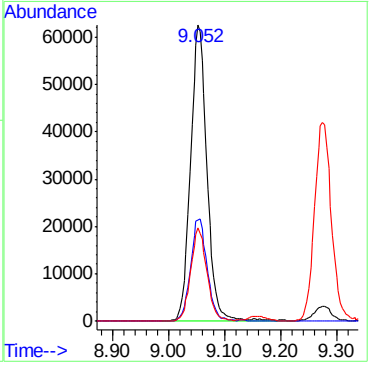




#45
1,1-dichloropropene
Concen: 50.20 ug/L
RT: 9.052 min Scan# 1633
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 75 Resp: 127234

Ion	Ratio	Lower	Upper
75	100		
110	34.3	12.6	72.6
77	31.3	1.8	61.8



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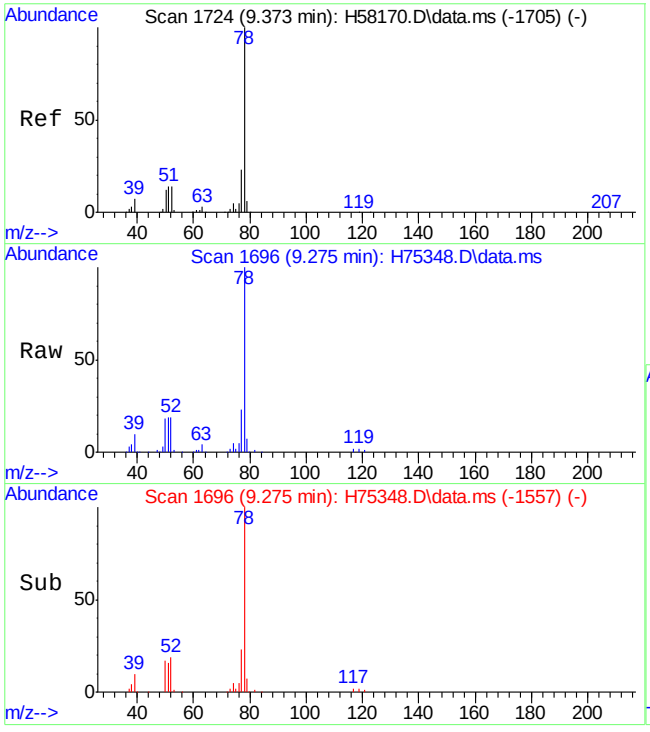
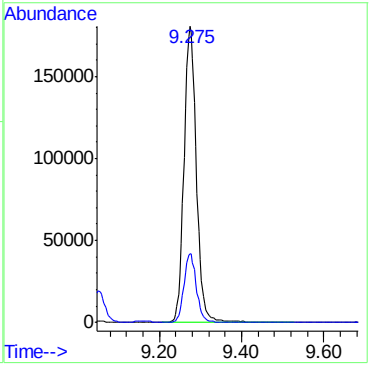
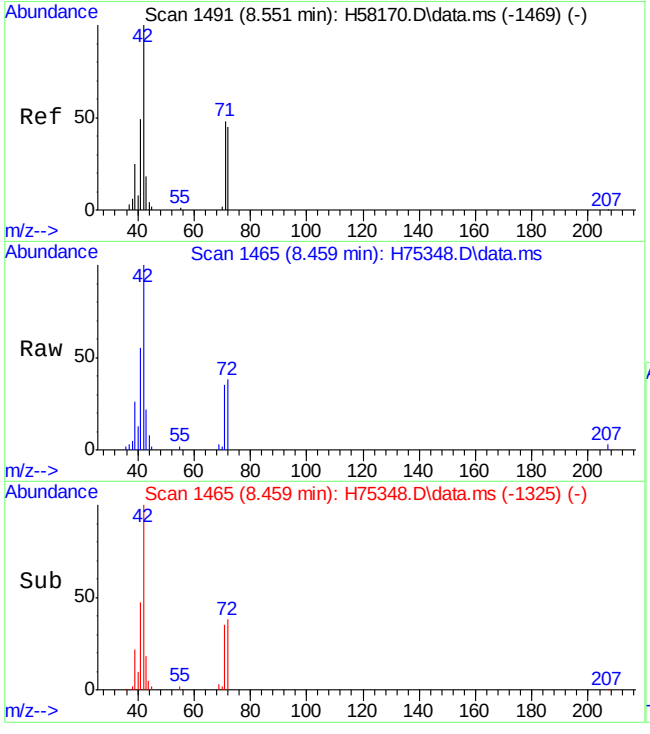


#46
benzene
Concen: 50.69 ug/L
RT: 9.275 min Scan# 1696
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 78 Resp: 377969

Ion	Ratio	Lower	Upper
78	100		
77	23.3	0.0	53.5

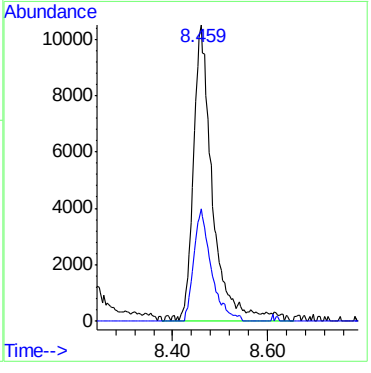




#47
tetrahydrofuran
Concen: 47.54 ug/L
RT: 8.459 min Scan# 1465
Delta R.T. -0.007 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 42 Resp: 29526

Ion	Ratio	Lower	Upper
42	100		
72	37.7	12.6	72.6



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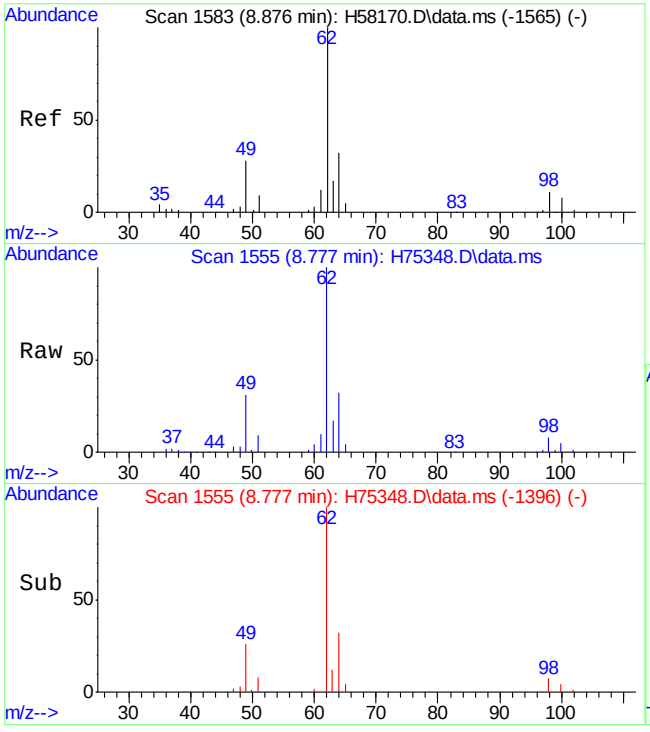
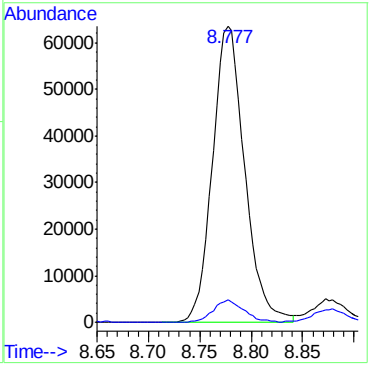
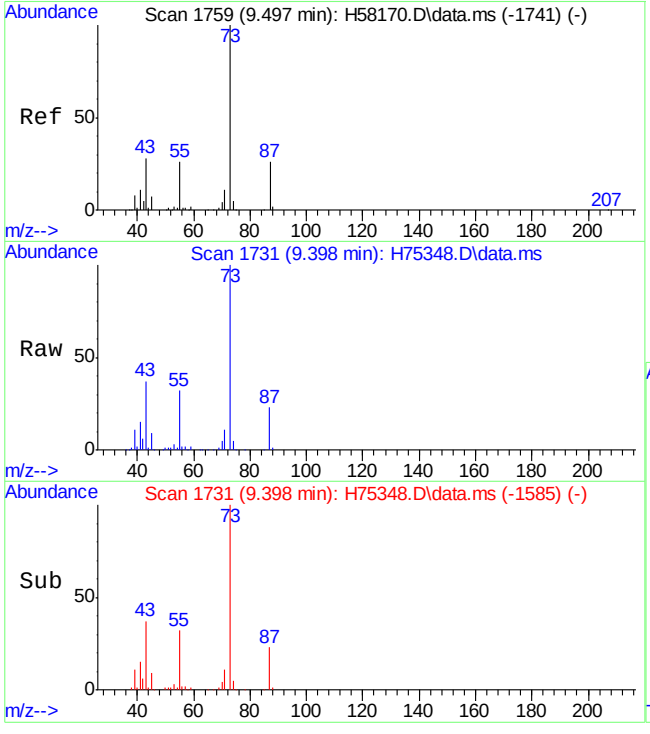


#48
1,2-dichloroethane
Concen: 49.83 ug/L
RT: 8.777 min Scan# 1555
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 62 Resp: 138632

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	37.4

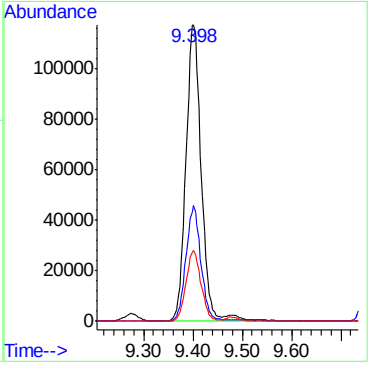




#49
tert-amyl methyl ether
Concen: 50.00 ug/L
RT: 9.398 min Scan# 1731
Delta R.T. -0.007 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 73 Resp: 253416

Ion	Ratio	Lower	Upper
73	100		
43	36.9	3.8	63.8
87	23.3	0.0	59.9



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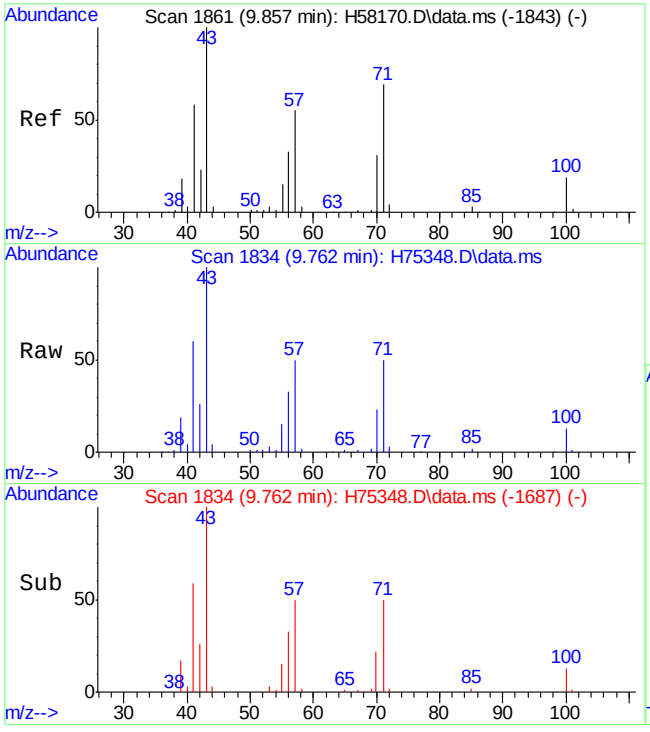
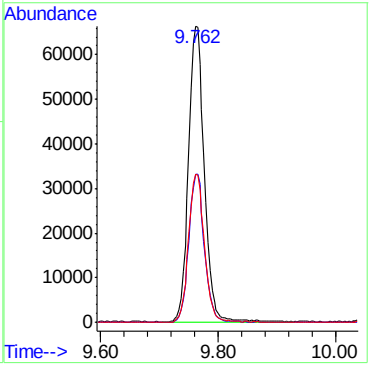
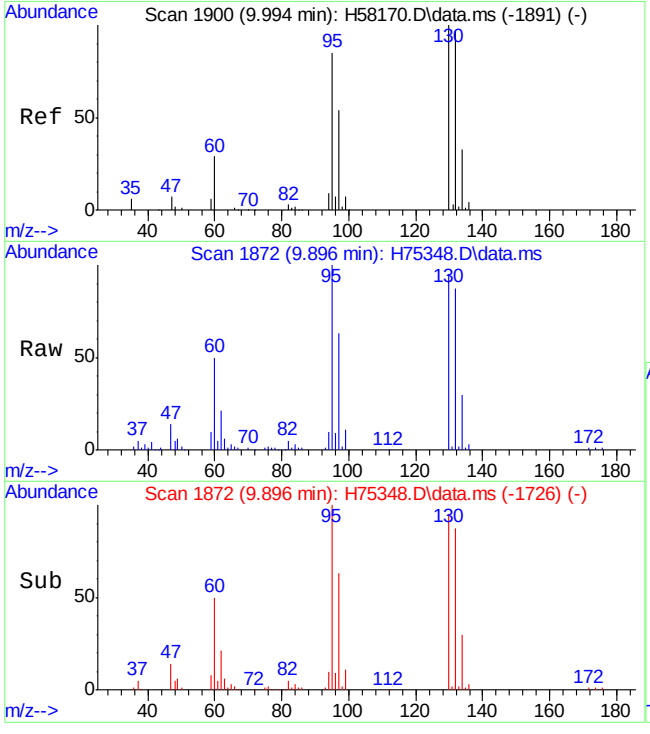


#50
heptane
Concen: 47.28 ug/L
RT: 9.762 min Scan# 1834
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 124116

Ion	Ratio	Lower	Upper
43	100		
71	50.1	31.4	91.4
57	50.0	21.5	81.5

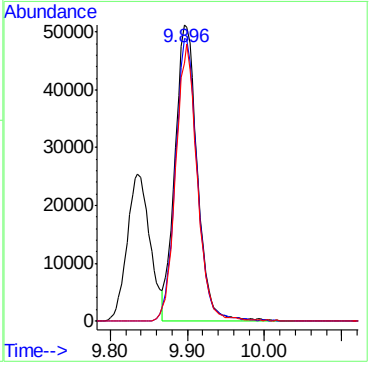




#51
trichloroethene
Concen: 52.50 ug/L
RT: 9.896 min Scan# 1872
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 95 Resp: 102593

Ion	Ratio	Lower	Upper
95	100		
130	95.4	83.0	143.0
132	87.1	82.2	142.2



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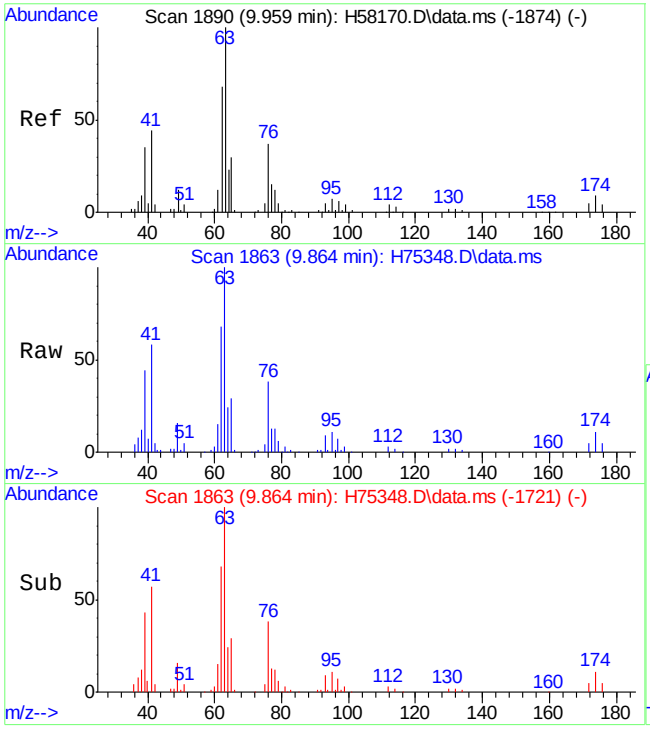
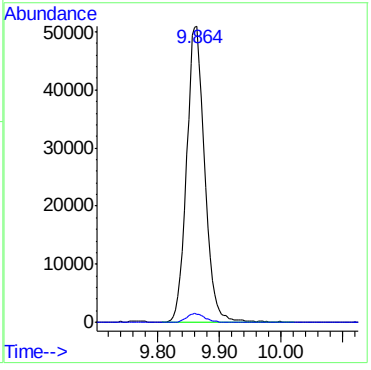
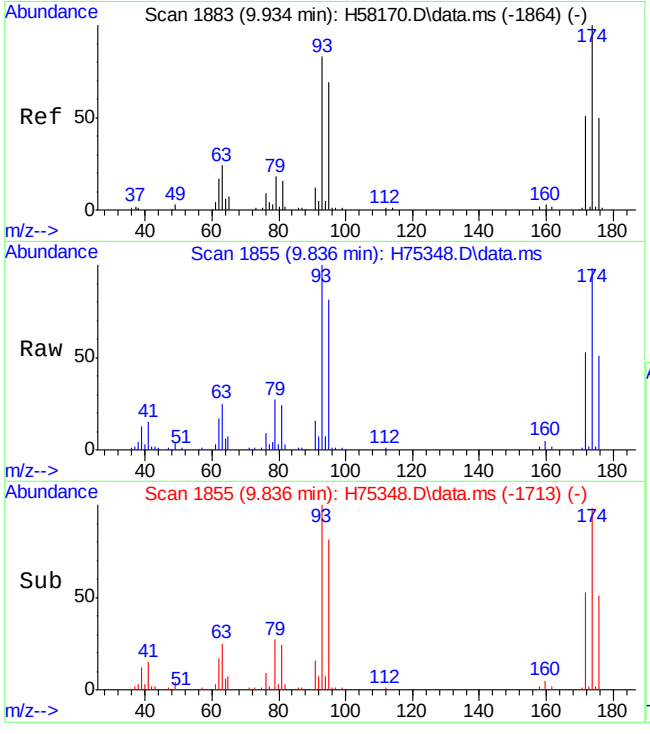


#52
1,2-dichloropropane
Concen: 51.02 ug/L
RT: 9.864 min Scan# 1863
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 63 Resp: 105679

Ion	Ratio	Lower	Upper
63	100		
112	2.8	0.0	34.6

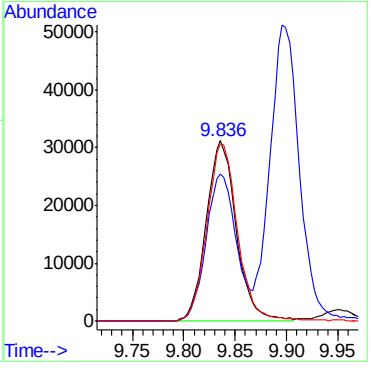




#53
dibromomethane
Concen: 51.04 ug/L
RT: 9.836 min Scan# 1855
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 93 Resp: 63379

Ion	Ratio	Lower	Upper
93	100		
95	81.4	52.2	112.2
174	100.3	76.7	136.7



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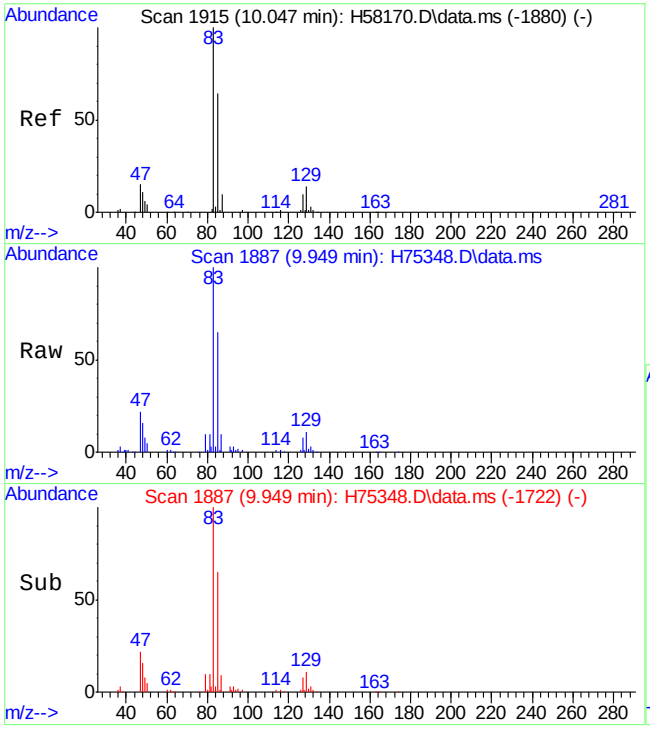
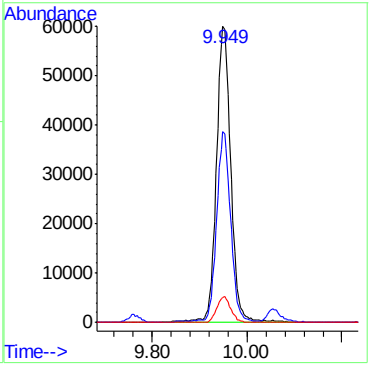
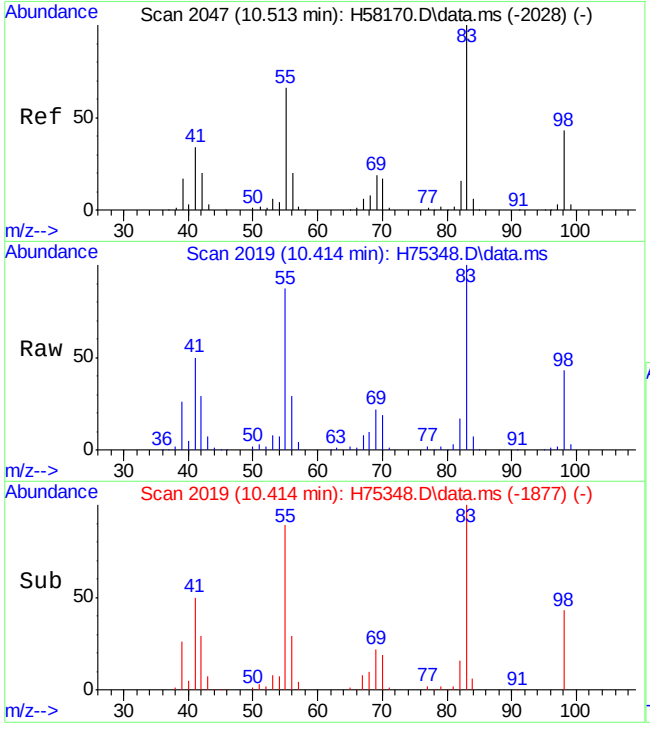


#54
bromodichloromethane
Concen: 50.82 ug/L
RT: 9.949 min Scan# 1887
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 83 Resp: 126336

Ion	Ratio	Lower	Upper
83	100		
85	64.5	36.5	96.5
127	8.2	0.0	42.2

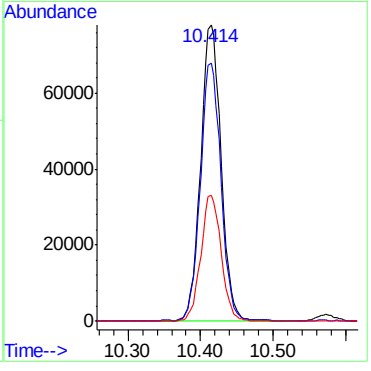




#55
methylcyclohexane
Concen: 47.88 ug/L
RT: 10.414 min Scan# 2019
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 83 Resp: 151967

Ion	Ratio	Lower	Upper
83	100		
55	86.8	51.1	91.1
98	42.6	25.6	65.6



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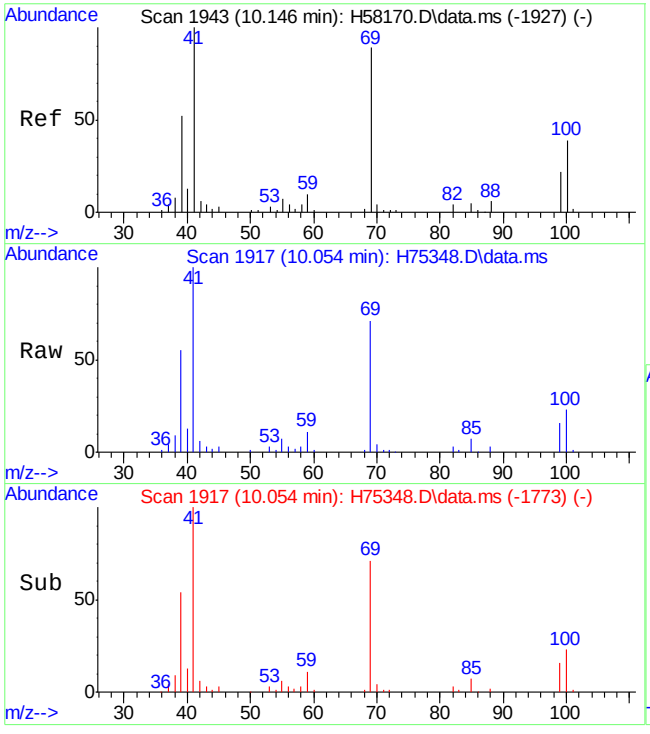
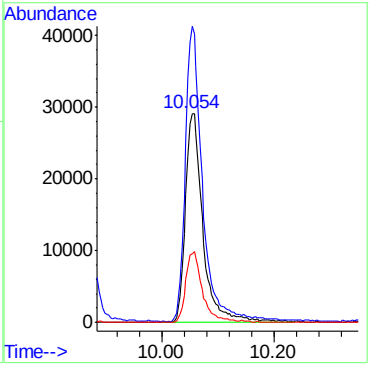
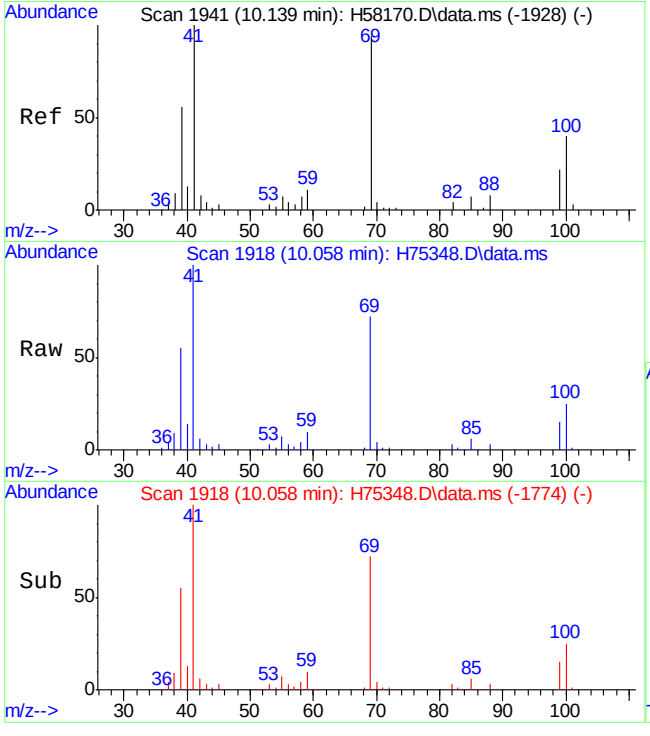


#57
methyl methacrylate
Concen: 48.58 ug/L
RT: 10.054 min Scan# 1917
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 69 Resp: 62987

Ion	Ratio	Lower	Upper
69	100		
41	141.0	108.1	168.1
100	32.6	21.1	81.1

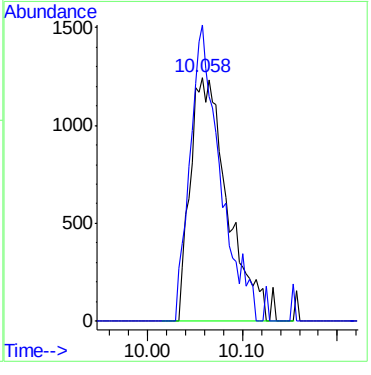




#58
1,4-dioxane
Concen: 197.29 ug/L
RT: 10.058 min Scan# 1918
Delta R.T. -0.002 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 88 Resp: 3393

Ion	Ratio	Lower	Upper
88	100		
58	121.5	60.1	120.1#



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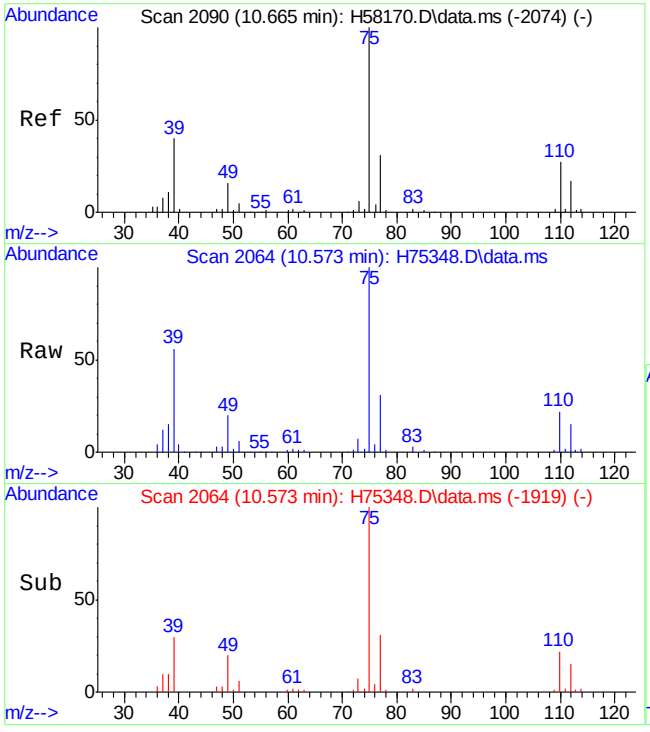
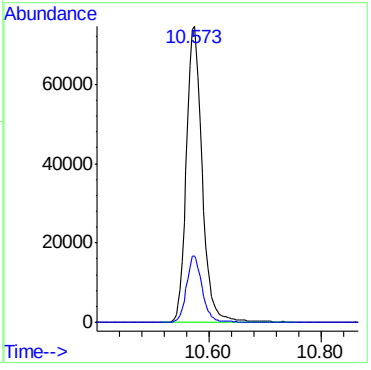
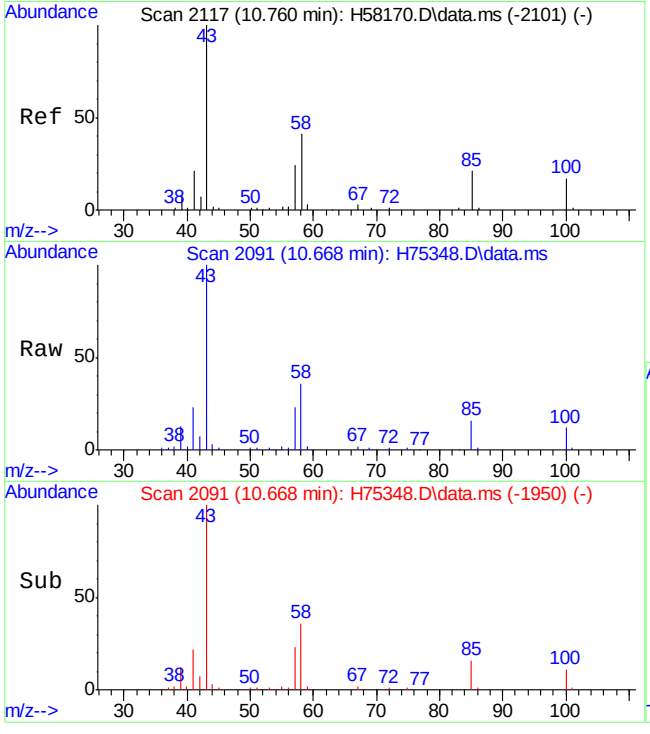


#59
cis-1,3-dichloropropene
Concen: 52.41 ug/L
RT: 10.573 min Scan# 2064
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 75 Resp: 145458

Ion	Ratio	Lower	Upper
75	100		
110	22.3	0.0	57.6

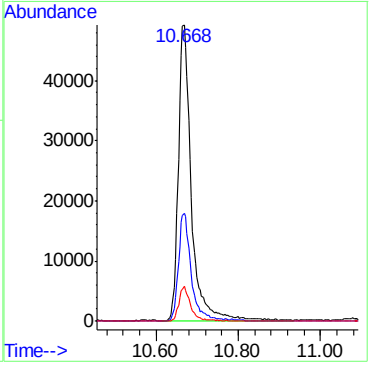




#61
4-methyl-2-pentanone
Concen: 52.14 ug/L
RT: 10.668 min Scan# 2091
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 109618

Ion	Ratio	Lower	Upper
43	100		
58	35.7	8.9	68.9
100	10.3	0.0	46.9



7.4.2

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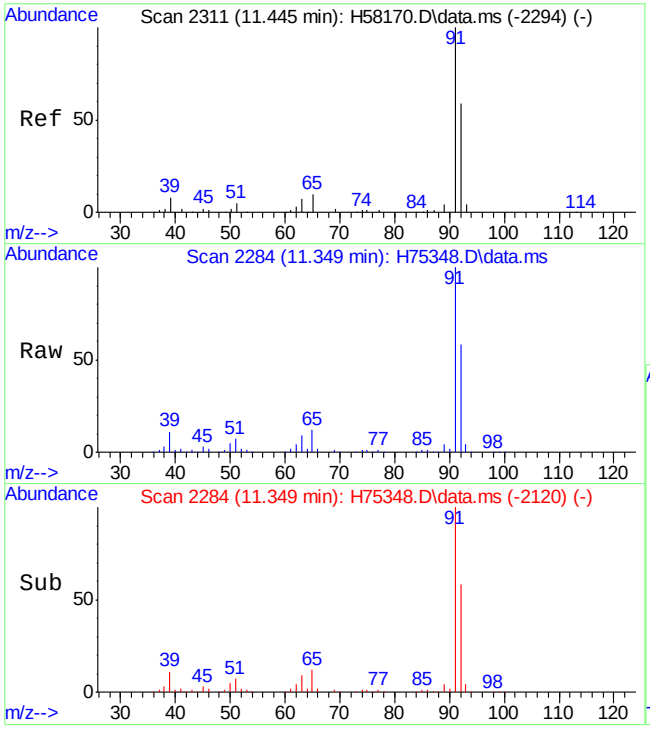
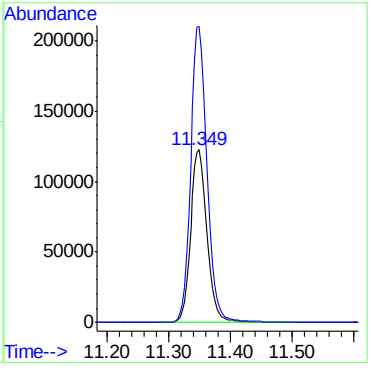
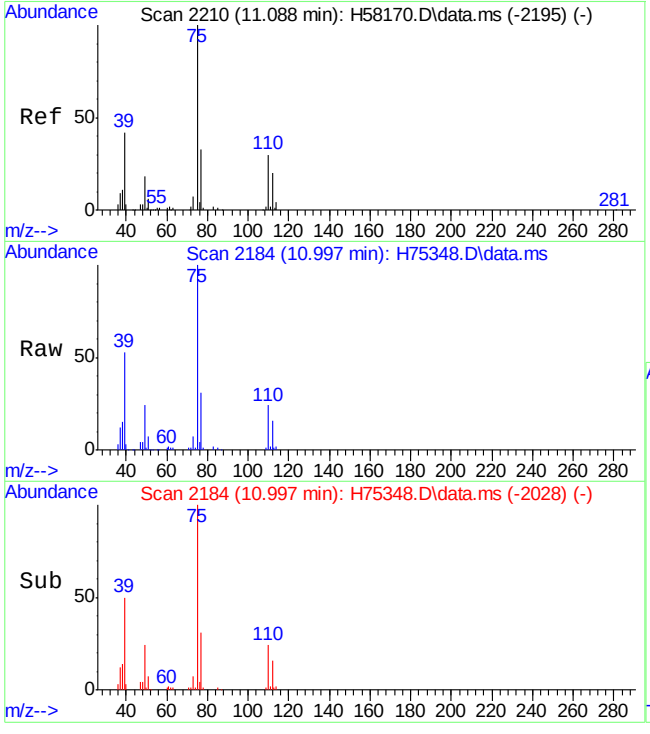


#62
toluene
Concen: 49.57 ug/L
RT: 11.349 min Scan# 2284
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 92 Resp: 225789

Ion	Ratio	Lower	Upper
92	100		
91	171.8	140.4	200.4

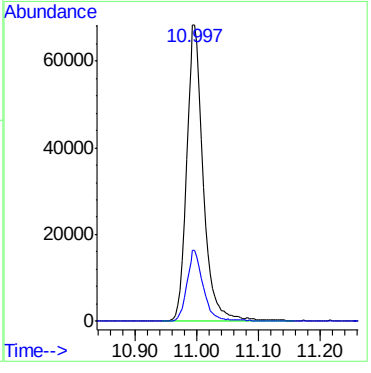




#63
trans-1,3-dichloropropene
Concen: 46.46 ug/L
RT: 10.997 min Scan# 2184
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 75 Resp: 130188

Ion	Ratio	Lower	Upper
75	100		
110	24.1	0.0	54.2



7.4.2

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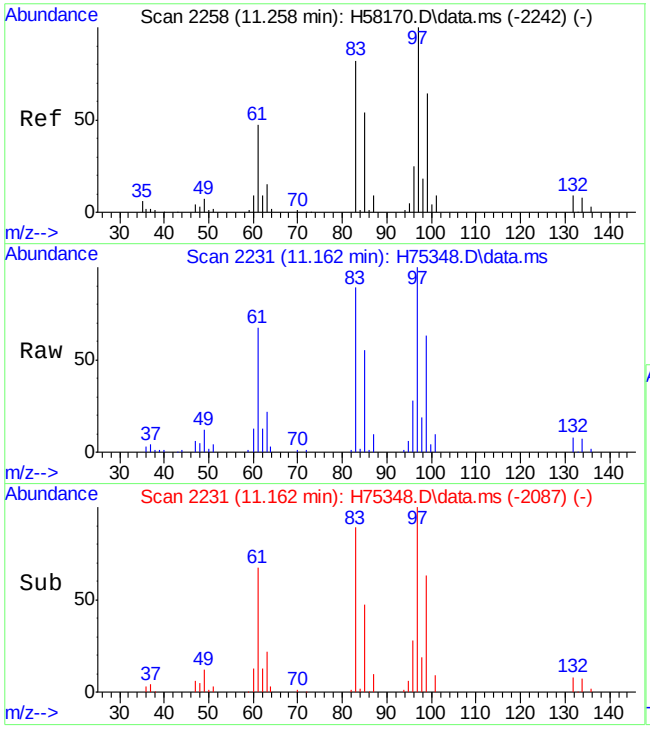
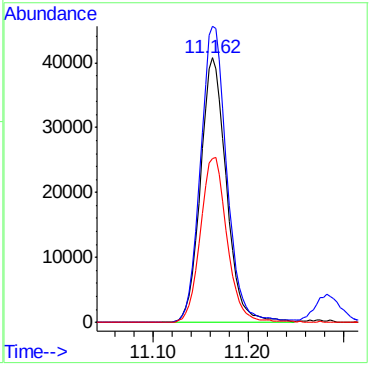
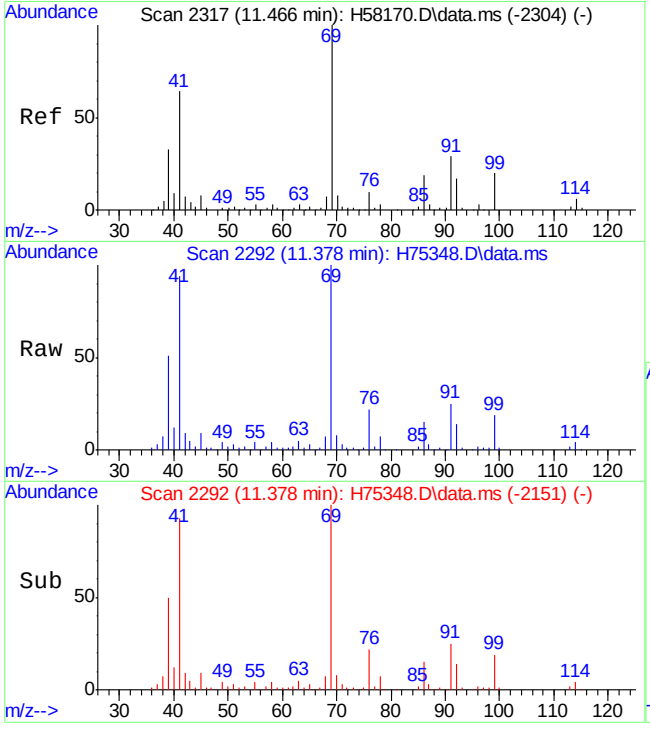


#64
1,1,2-trichloroethane
Concen: 50.55 ug/L
RT: 11.162 min Scan# 2231
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 83 Resp: 76628

Ion	Ratio	Lower	Upper
83	100		
97	111.9	98.5	158.5
85	61.8	34.7	94.7

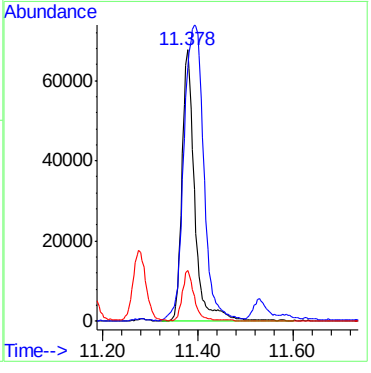




#65
ethyl methacrylate
Concen: 50.45 ug/L
RT: 11.378 min Scan# 2292
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 69 Resp: 125204

Ion	Ratio	Lower	Upper
69	100		
41	92.9	68.2	128.2
99	18.6	0.0	55.4



7.4.2

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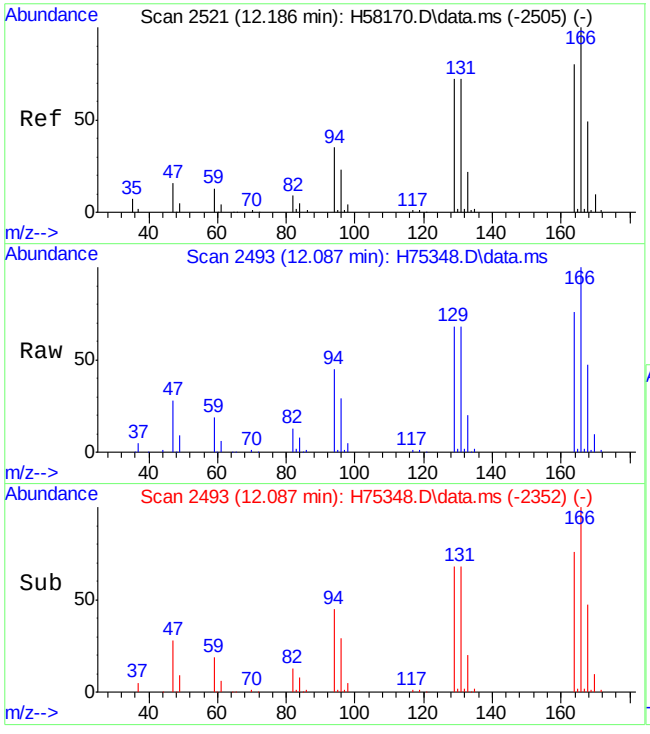
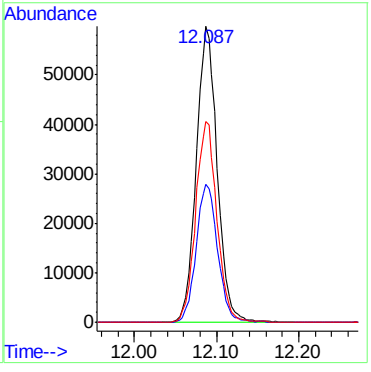
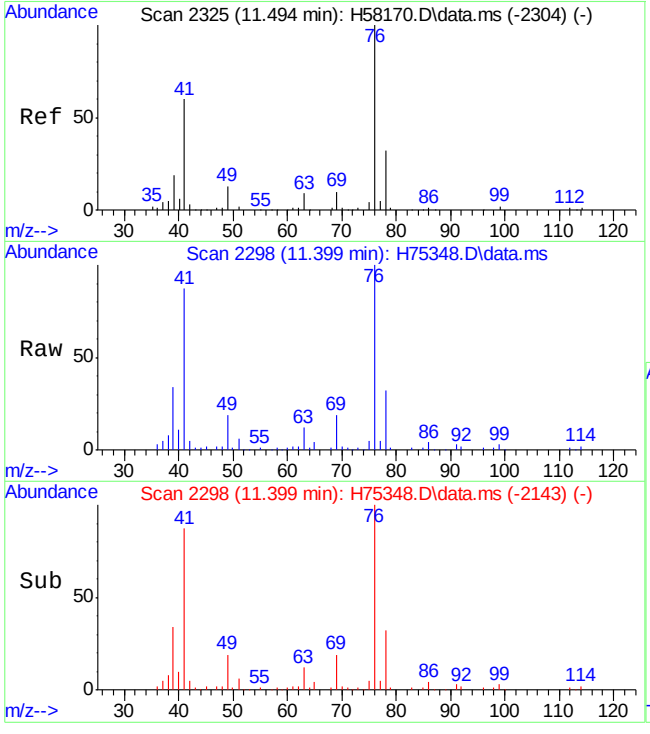


#67
tetrachloroethene
Concen: 48.98 ug/L
RT: 12.087 min Scan# 2493
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:166 Resp: 105731

Ion	Ratio	Lower	Upper
166	100		
168	46.6	17.7	77.7
129	67.8	48.9	108.9

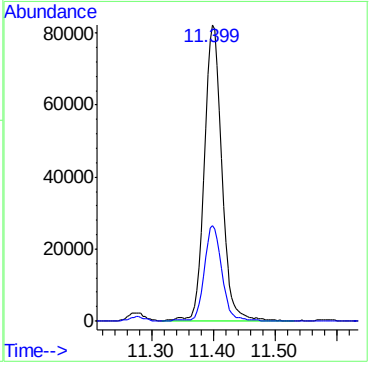


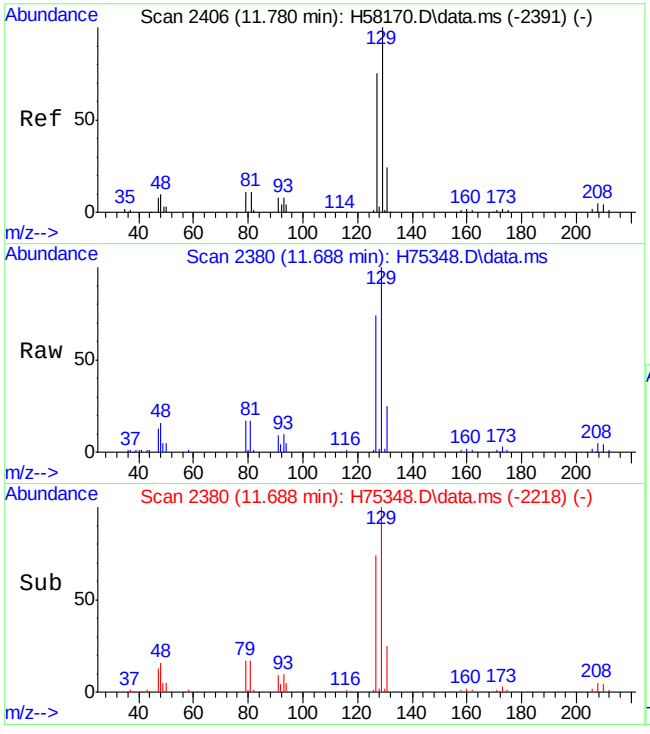


#68
1,3-dichloropropane
Concen: 49.01 ug/L
RT: 11.399 min Scan# 2298
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 76 Resp: 158874

Ion	Ratio	Lower	Upper
76	100		
78	32.1	3.4	63.4

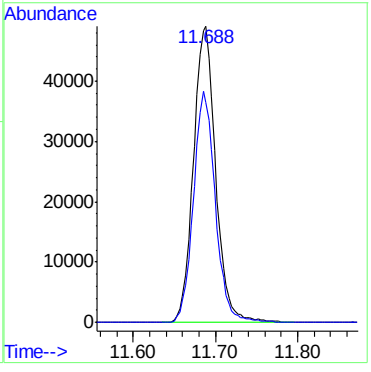


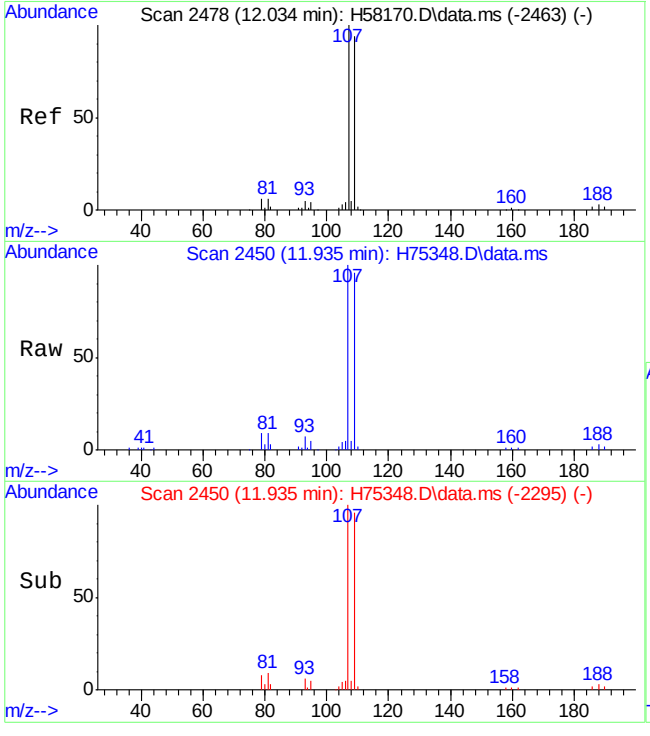


#69
dibromochloromethane
Concen: 43.21 ug/L
RT: 11.688 min Scan# 2380
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:129 Resp: 92245

Ion	Ratio	Lower	Upper
129	100		
127	74.1	48.1	108.1

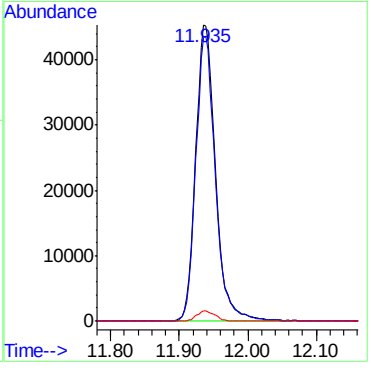


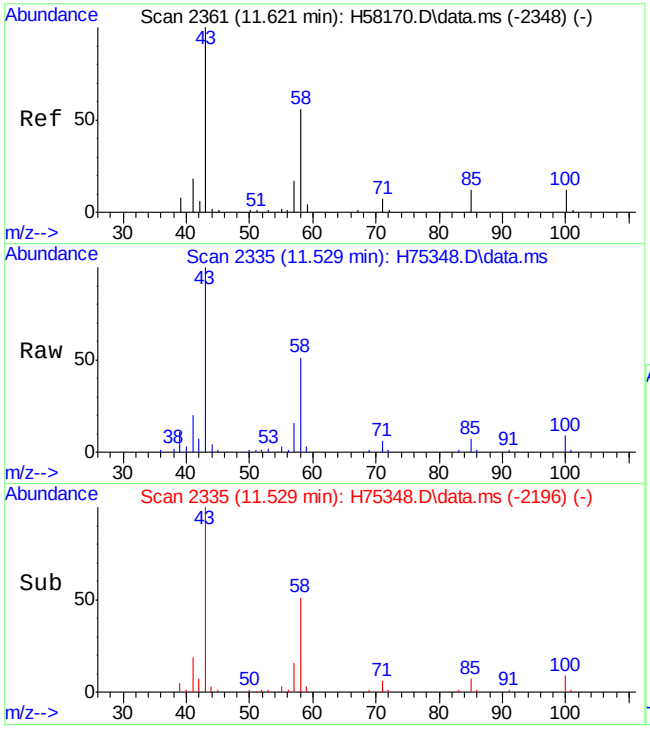


#70
1,2-dibromoethane
Concen: 47.58 ug/L
RT: 11.935 min Scan# 2450
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:107 Resp: 90837

Ion	Ratio	Lower	Upper
107	100		
109	95.9	58.7	118.7
188	3.3	0.0	33.1

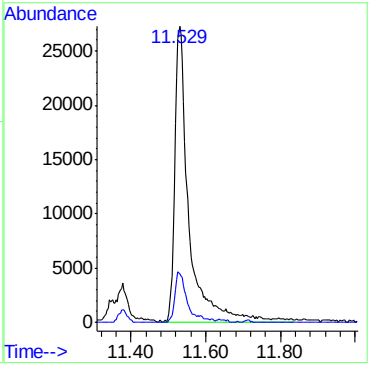


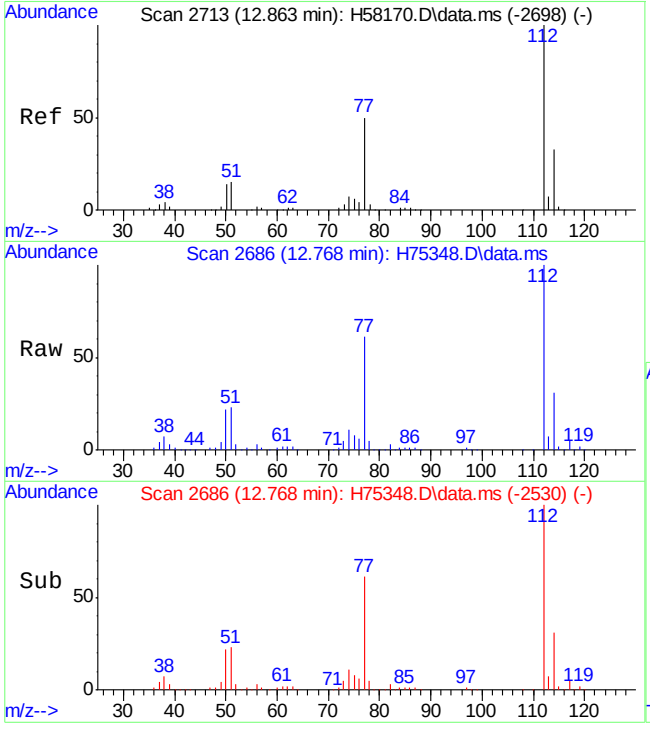


#71
2-hexanone
Concen: 46.10 ug/L
RT: 11.529 min Scan# 2335
Delta R.T. -0.010 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 43 Resp: 72227

Ion	Ratio	Lower	Upper
43	100		
57	15.6	0.0	48.4

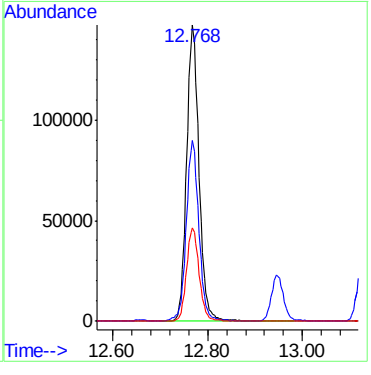




#72
chlorobenzene
Concen: 46.11 ug/L
RT: 12.768 min Scan# 2686
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:112 Resp: 264948

Ion	Ratio	Lower	Upper
112	100		
77	60.9	19.7	79.7
114	31.3	2.4	62.4



7.4.2

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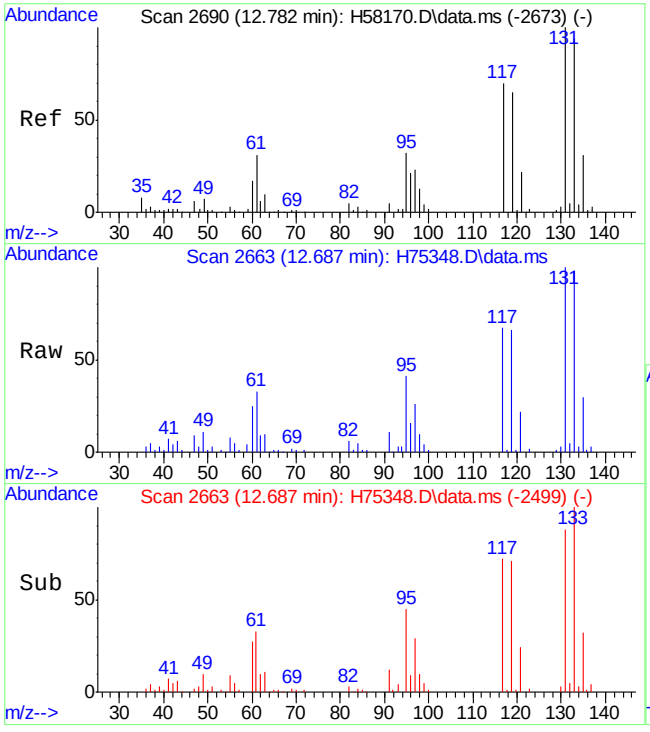
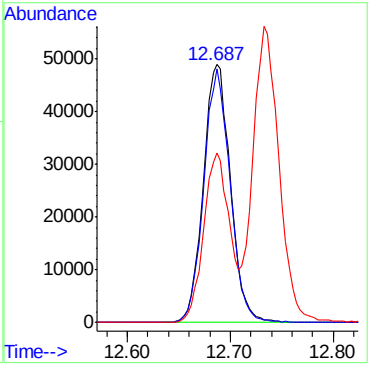
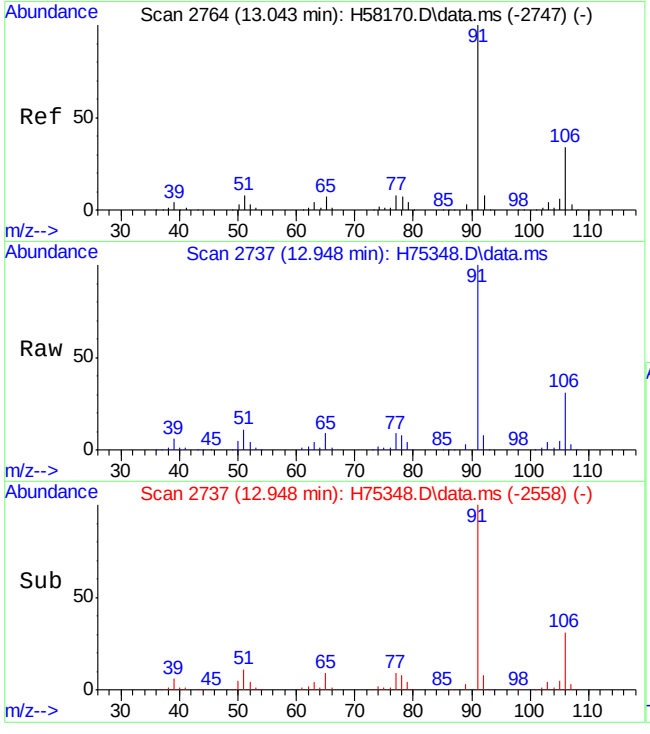


#73
1,1,1,2-tetrachloroethane
Concen: 50.05 ug/L
RT: 12.687 min Scan# 2663
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:131 Resp: 88973

Ion	Ratio	Lower	Upper
131	100		
133	98.4	64.9	124.9
119	65.6	26.4	86.4

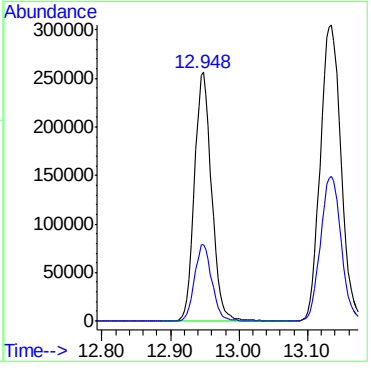


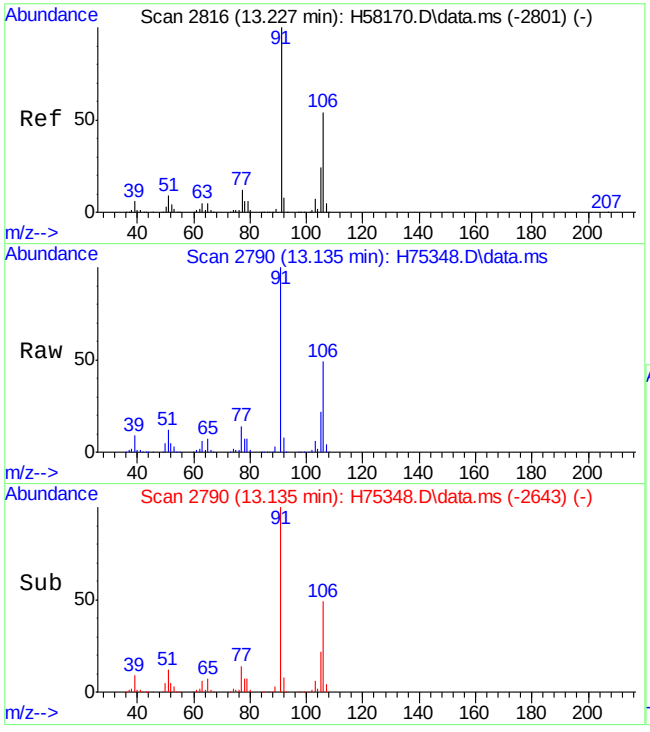


#74
ethylbenzene
Concen: 48.23 ug/L
RT: 12.948 min Scan# 2737
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 91 Resp: 444521

Ion	Ratio	Lower	Upper
91	100		
106	30.8	2.9	62.9

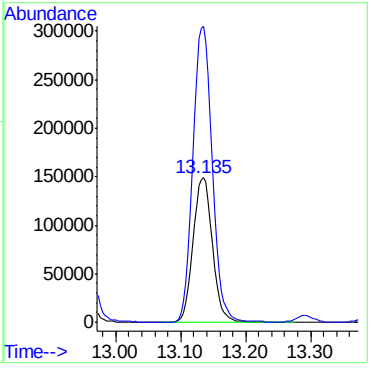


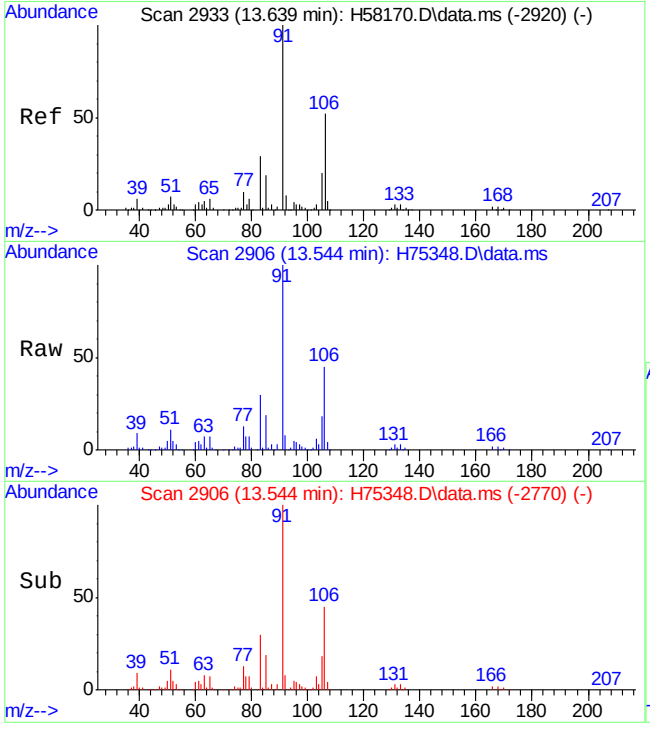


#75
m,p-xylene
Concen: 90.91 ug/L
RT: 13.135 min Scan# 2790
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:106 Resp: 314378

Ion	Ratio	Lower	Upper
106	100		
91	204.9	173.2	233.2

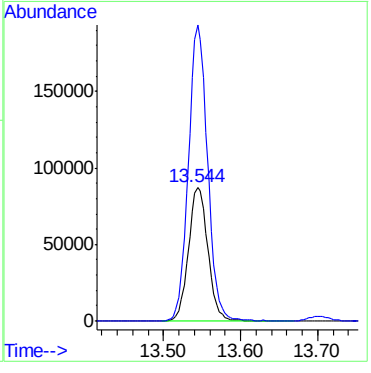




#76
o-xylene
Concen: 42.93 ug/L
RT: 13.544 min Scan# 2906
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

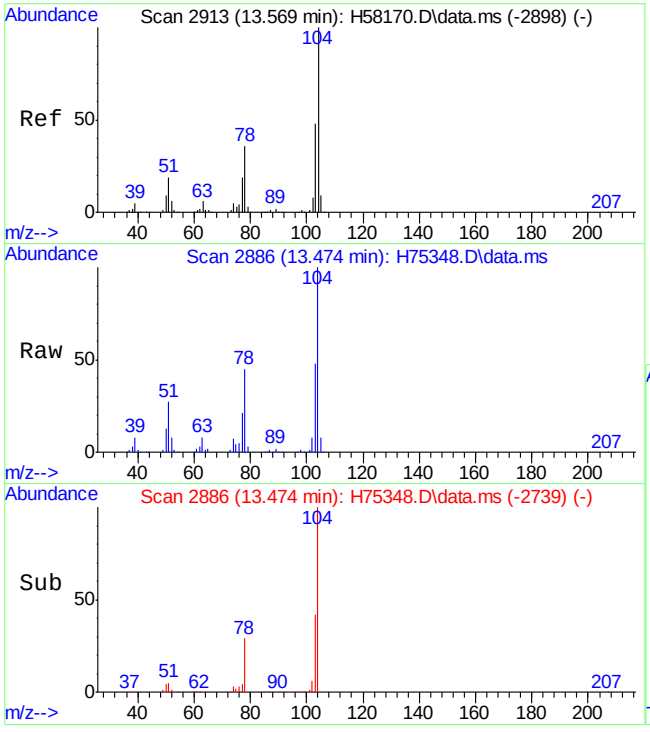
Tgt Ion:106 Resp: 152338

Ion	Ratio	Lower	Upper
106	100		
91	220.8	183.3	243.3



7.4.2

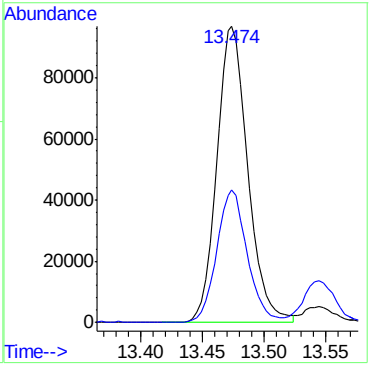
7

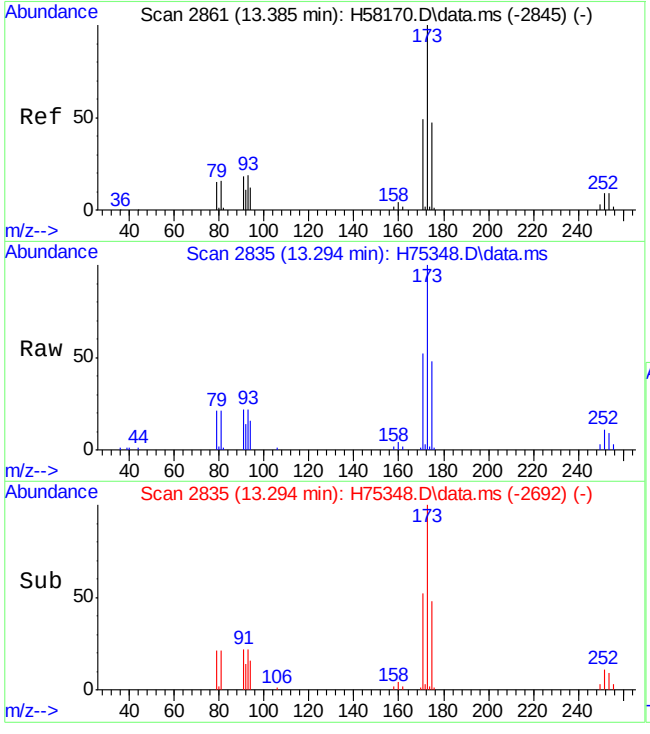


#77
styrene
Concen: 28.35 ug/L
RT: 13.474 min Scan# 2886
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:104 Resp: 169222

Ion	Ratio	Lower	Upper
104	100		
78	44.7	12.2	72.2

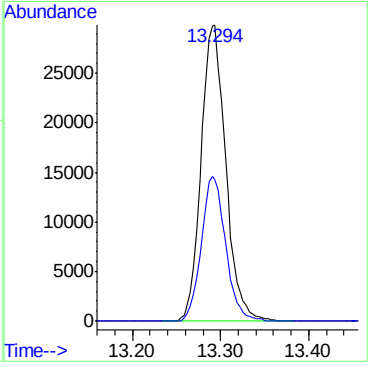


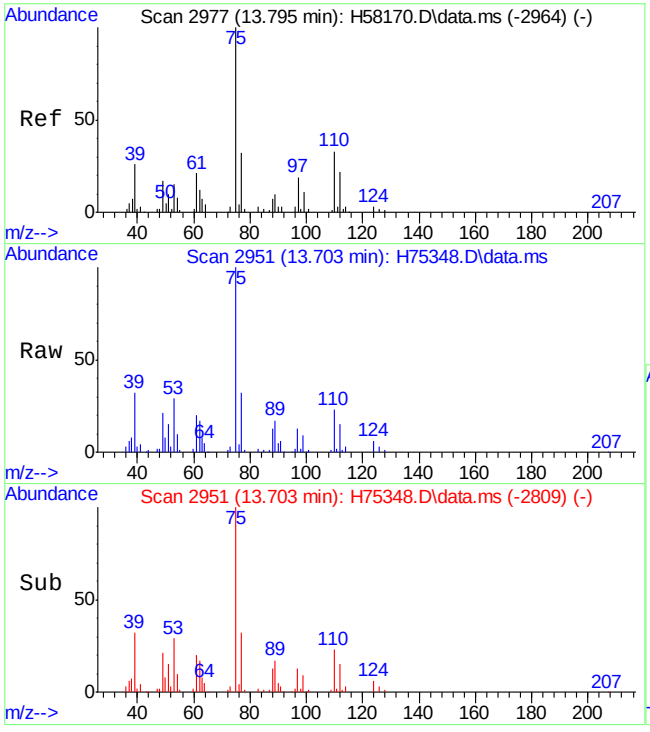


#78
bromoform
Concen: 48.19 ug/L
RT: 13.294 min Scan# 2835
Delta R.T. 0.005 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:173 Resp: 57818

Ion	Ratio	Lower	Upper
173	100		
175	47.9	17.7	77.7

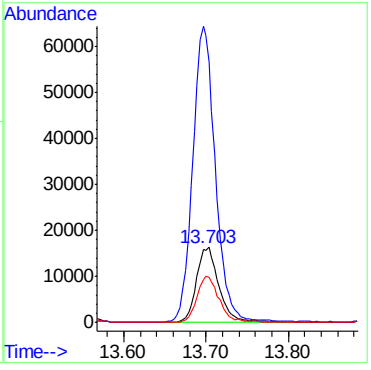


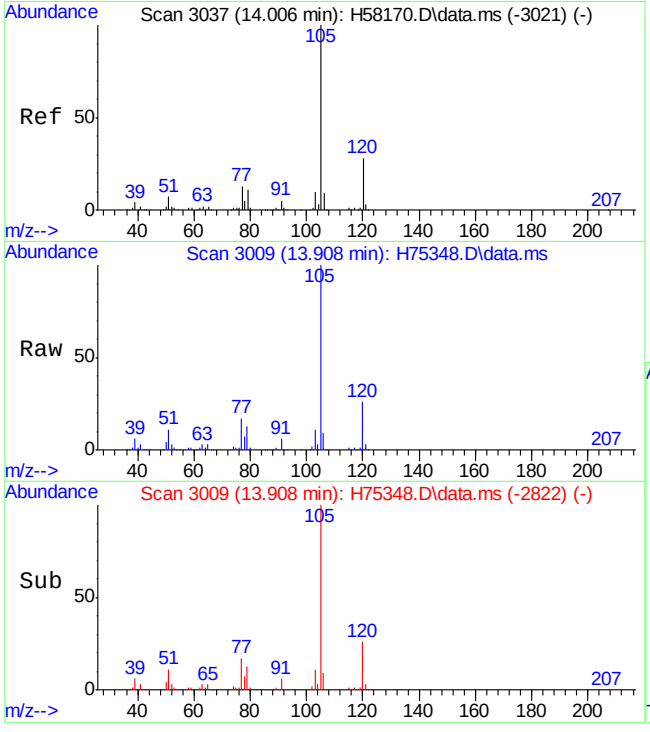


#79
trans-1,4-dichloro-2-butene
Concen: 44.95 ug/L
RT: 13.703 min Scan# 2951
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 53 Resp: 30889

Ion	Ratio	Lower	Upper
53	100		
75	346.9	302.8	362.8
89	60.1	25.5	85.5

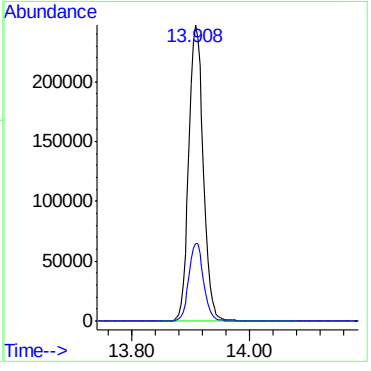


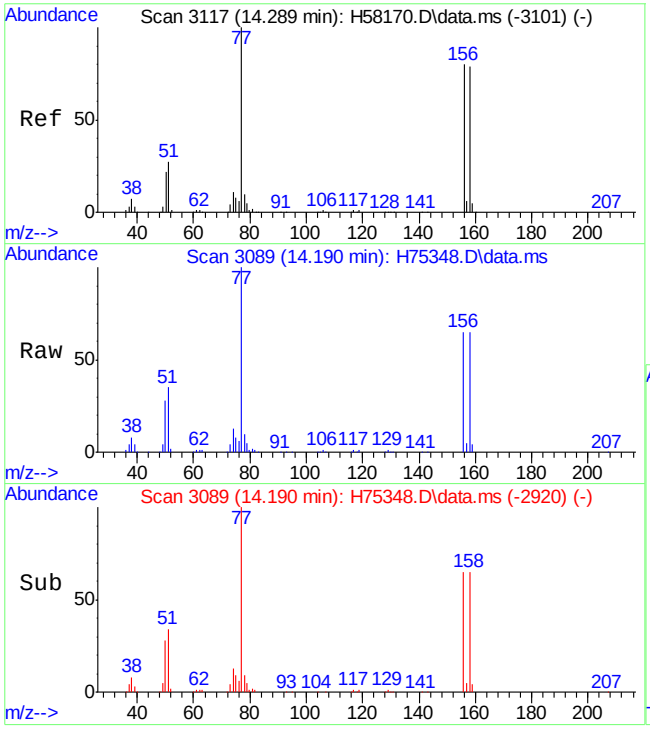


#81
isopropylbenzene
Concen: 45.65 ug/L
RT: 13.908 min Scan# 3009
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:105 Resp: 422171

Ion	Ratio	Lower	Upper
105	100		
120	26.2	0.0	56.6

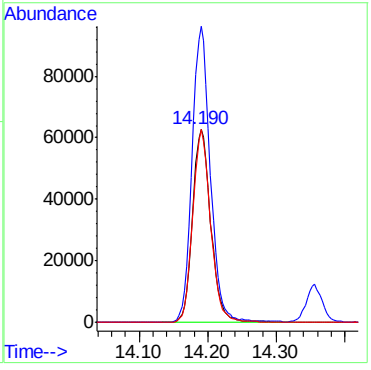


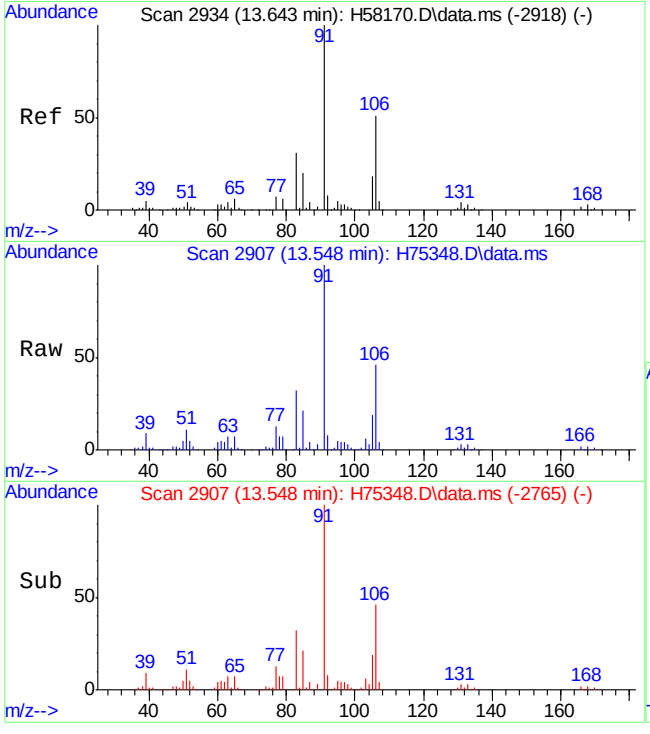


#83
bromobenzene
Concen: 45.23 ug/L
RT: 14.190 min Scan# 3089
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:156 Resp: 115607

Ion	Ratio	Lower	Upper
156	100		
77	153.4	93.1	153.1#
158	100.0	65.7	125.7

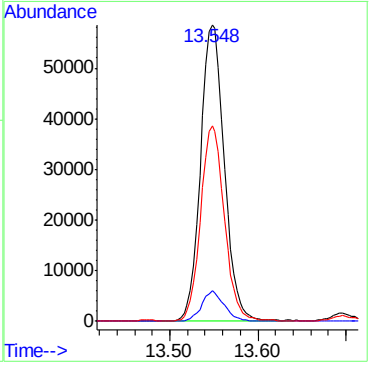




#84
1,1,2,2-tetrachloroethane
Concen: 48.71 ug/L
RT: 13.548 min Scan# 2907
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 83 Resp: 109828

Ion	Ratio	Lower	Upper
83	100		
131	10.1	0.0	45.7
85	65.8	36.0	96.0



7.4.2

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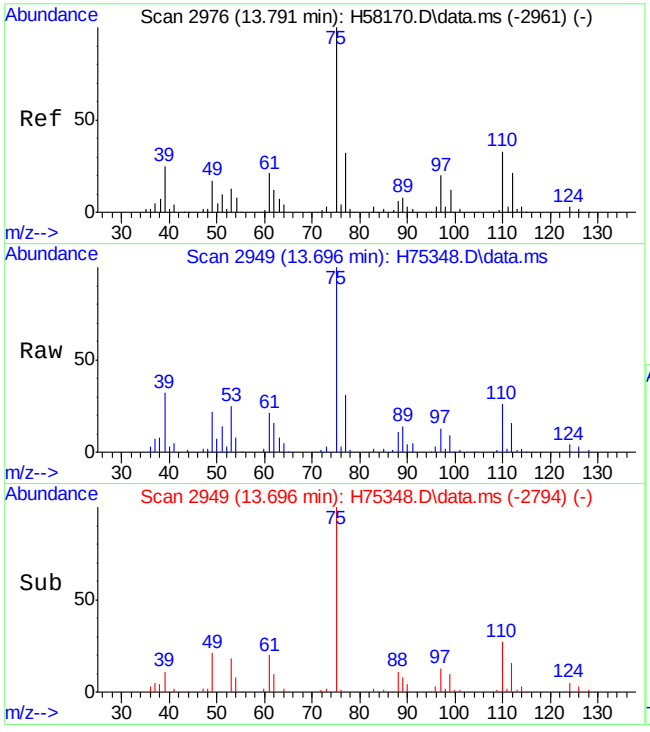
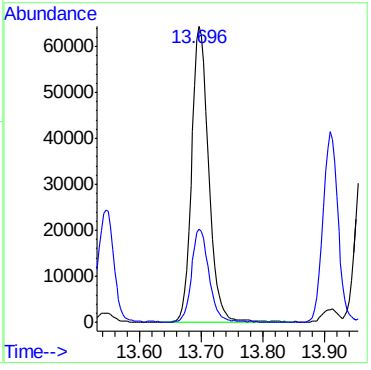
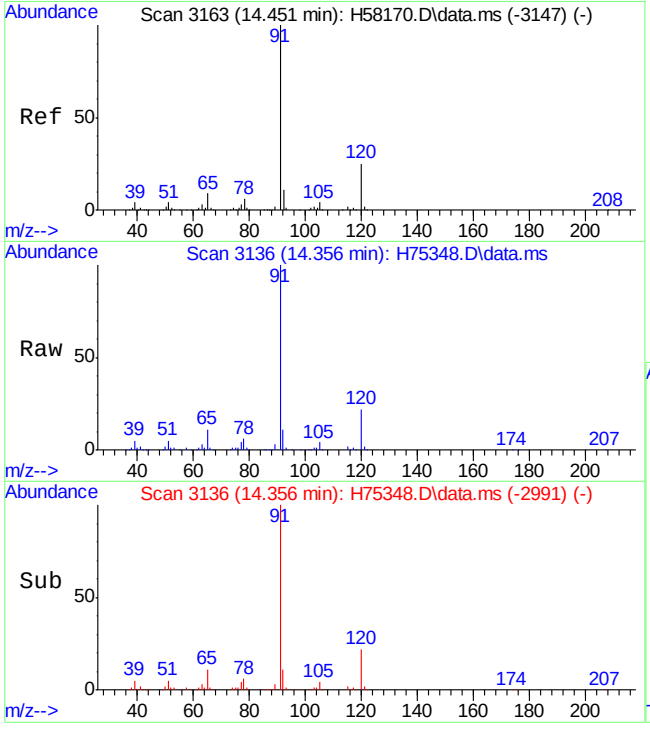


#85
1,2,3-trichloropropane
Concen: 48.23 ug/L
RT: 13.696 min Scan# 2949
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 75 Resp: 123497

Ion	Ratio	Lower	Upper
75	100		
77	31.4	4.2	64.2

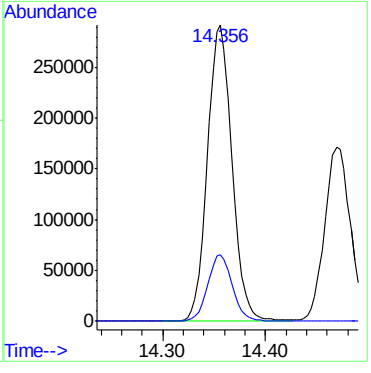




#86
n-propylbenzene
Concen: 44.25 ug/L
RT: 14.356 min Scan# 3136
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

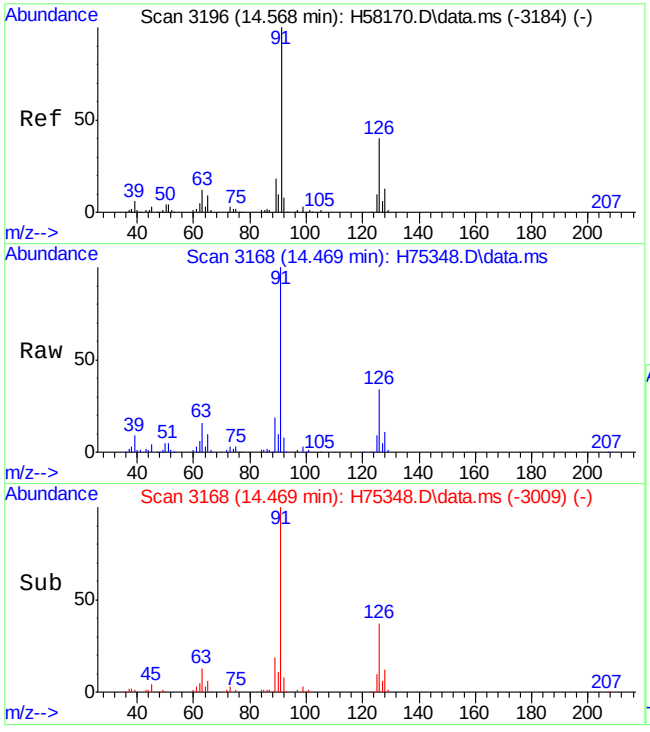
Tgt Ion: 91 Resp: 482640

Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	55.4



7.4.2

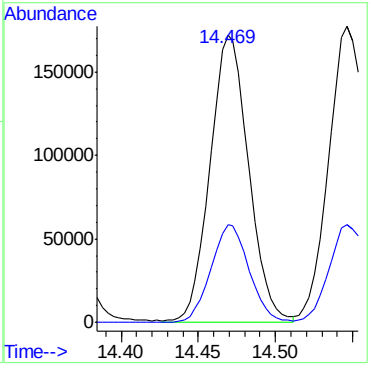
7

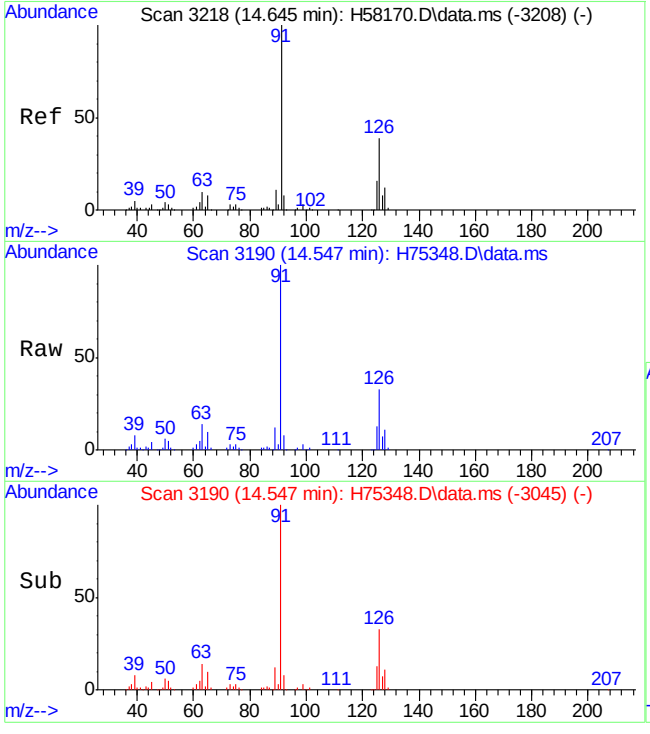


#87
2-chlorotoluene
Concen: 45.91 ug/L
RT: 14.469 min Scan# 3168
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 91 Resp: 299531

Ion	Ratio	Lower	Upper
91	100		
126	34.3	10.4	70.4

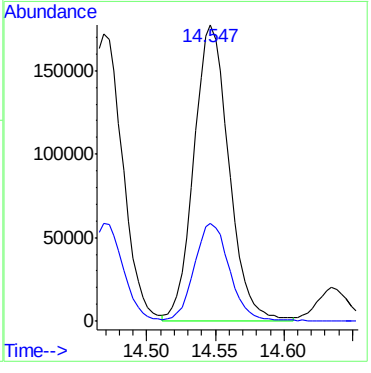




#88
4-chlorotoluene
Concen: 45.99 ug/L
RT: 14.547 min Scan# 3190
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

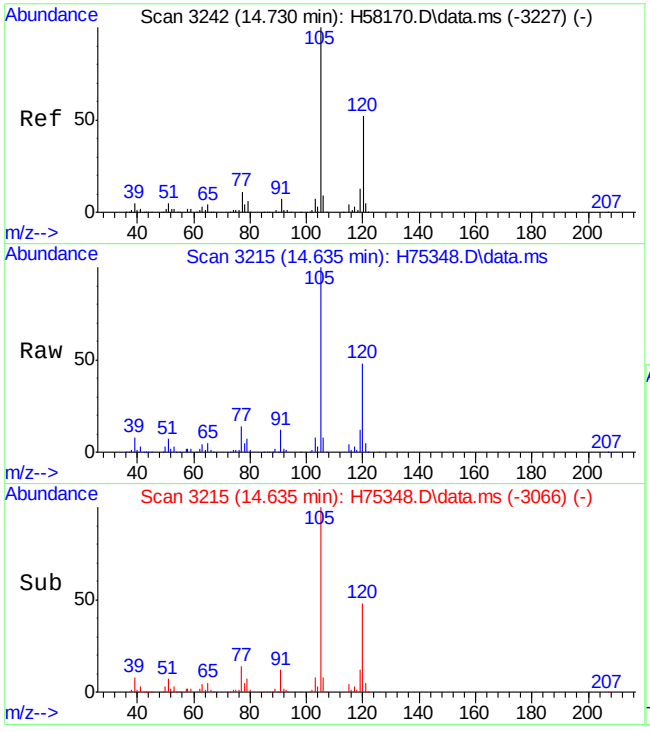
Tgt Ion: 91 Resp: 315664

Ion	Ratio	Lower	Upper
91	100		
126	33.1	9.4	69.4



7.4.2

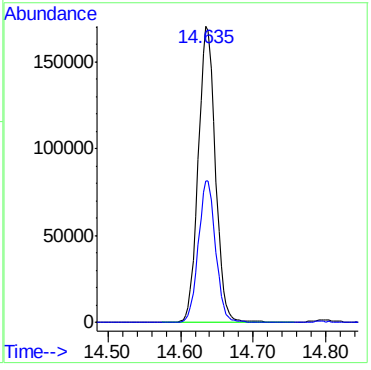
7

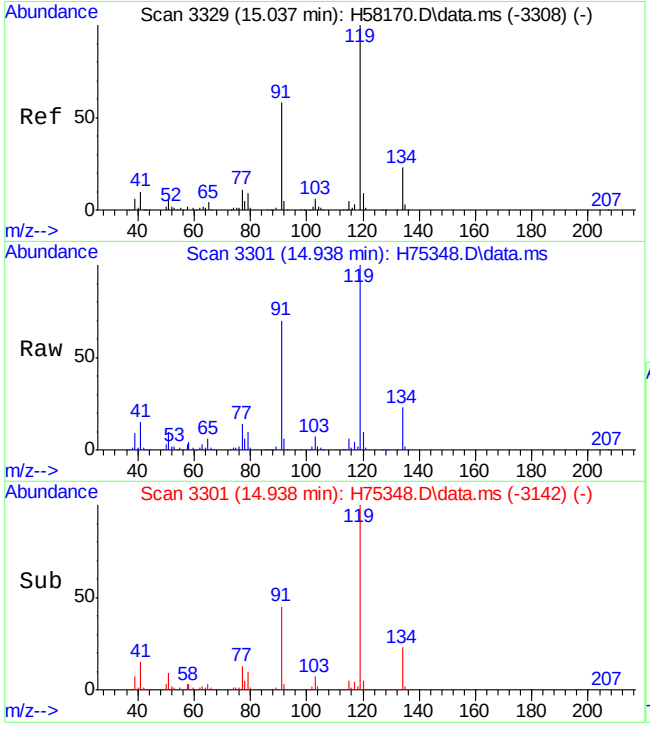


#89
1,3,5-trimethylbenzene
Concen: 38.52 ug/L
RT: 14.635 min Scan# 3215
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:105 Resp: 279862

Ion	Ratio	Lower	Upper
105	100		
120	47.7	18.1	78.1

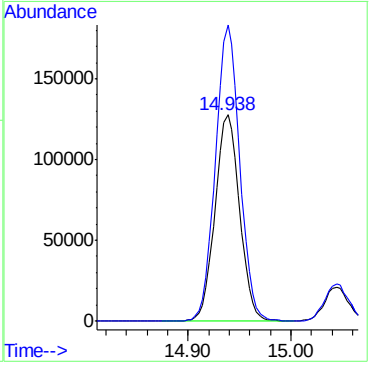




#90
tert-butylbenzene
Concen: 48.07 ug/L
RT: 14.938 min Scan# 3301
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 91 Resp: 212896

Ion	Ratio	Lower	Upper
91	100		
119	143.6	125.7	185.7



7.4.2

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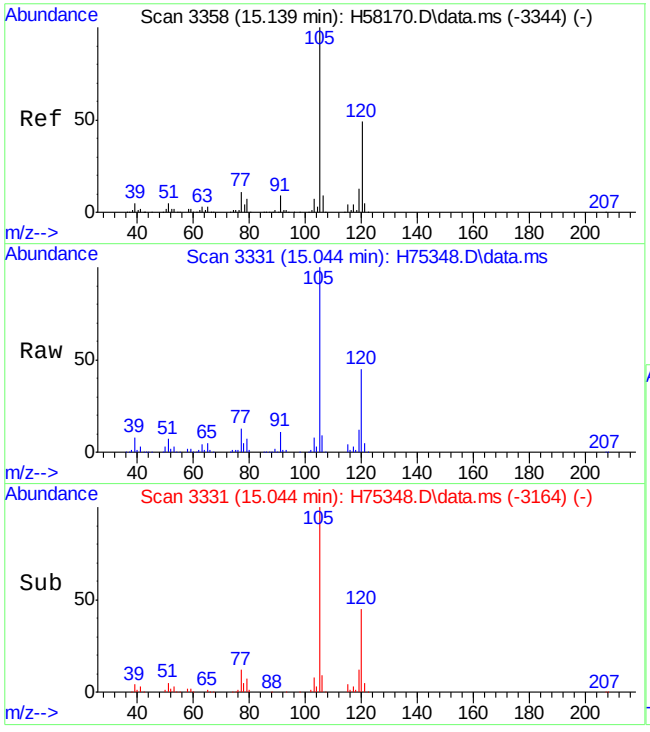
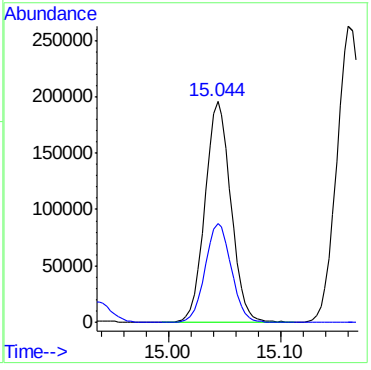
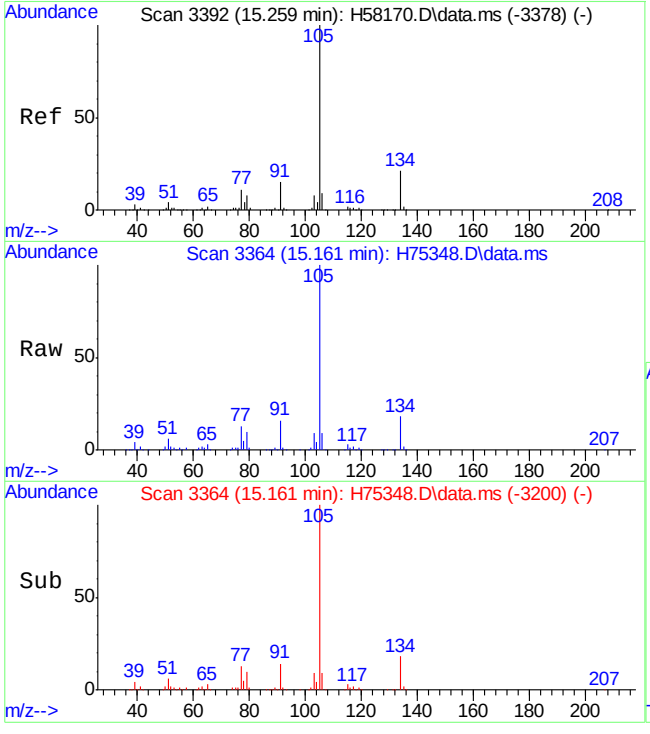


#91
1,2,4-trimethylbenzene
Concen: 43.25 ug/L
RT: 15.044 min Scan# 3331
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:105 Resp: 315289

Ion	Ratio	Lower	Upper
105	100		
120	44.7	15.6	75.6

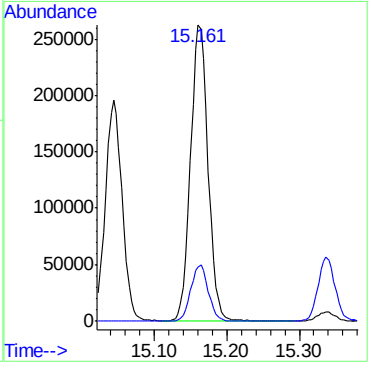


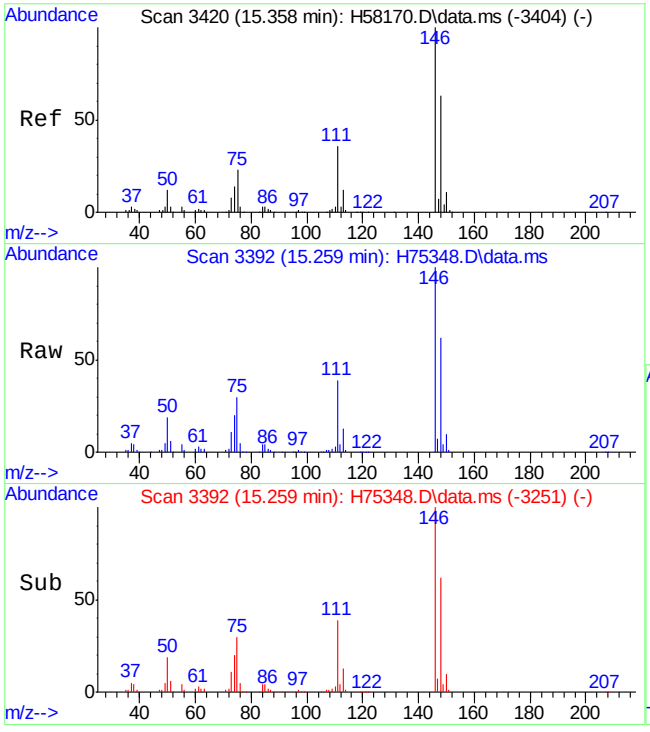


#92
sec-butylbenzene
Concen: 46.69 ug/L
RT: 15.161 min Scan# 3364
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:105 Resp: 439782

Ion	Ratio	Lower	Upper
105	100		
134	18.3	0.0	49.6

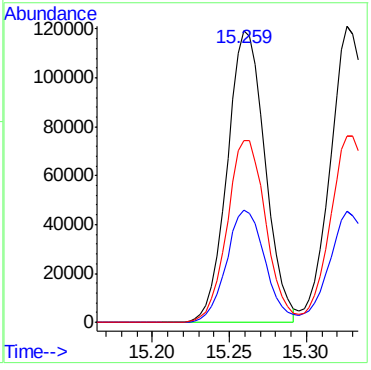


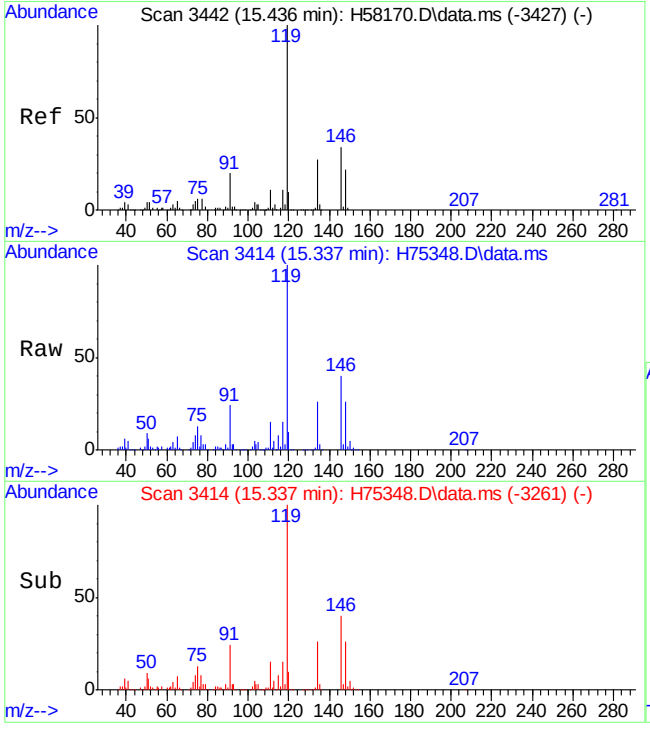


#93
1,3-dichlorobenzene
Concen: 46.83 ug/L
RT: 15.259 min Scan# 3392
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:146 Resp: 202544

Ion	Ratio	Lower	Upper
146	100		
111	38.7	8.2	68.2
148	62.4	34.0	94.0

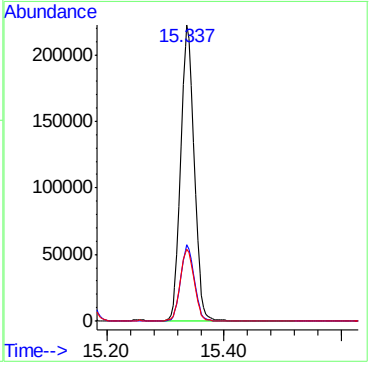


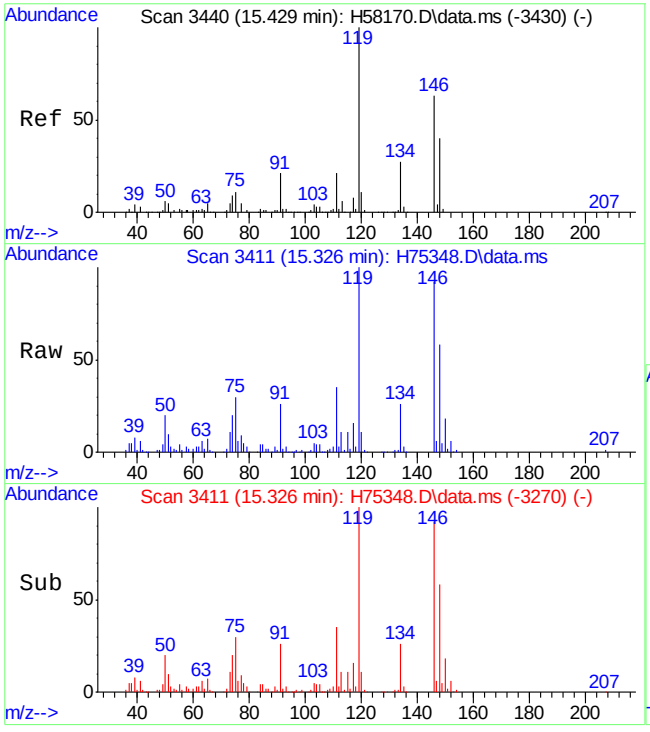


#94
p-isopropyltoluene
Concen: 45.15 ug/L
RT: 15.337 min Scan# 3414
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:119 Resp: 357517

Ion	Ratio	Lower	Upper
119	100		
134	25.7	0.0	57.0
91	24.4	0.0	52.8

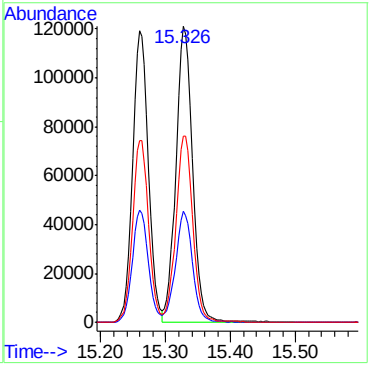


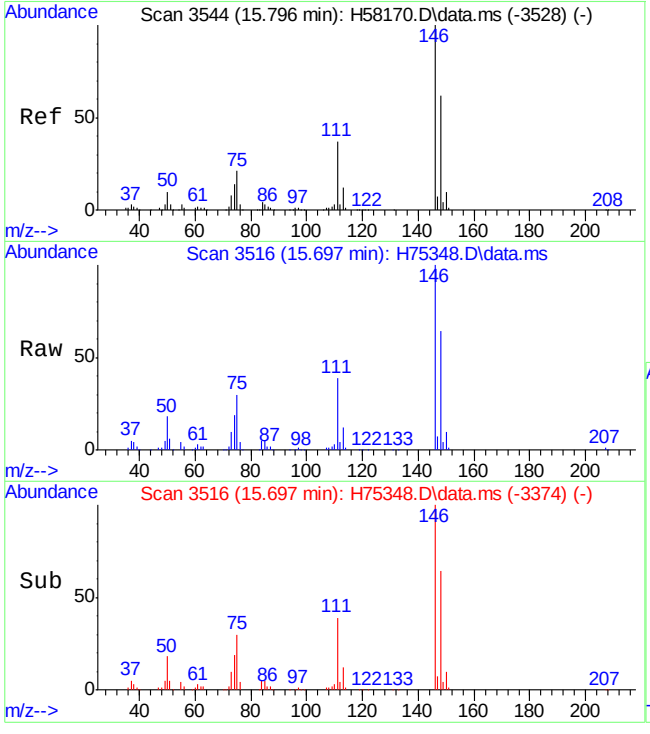


#95
1,4-dichlorobenzene
Concen: 45.91 ug/L
RT: 15.326 min Scan# 3411
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:146 Resp: 216614

Ion	Ratio	Lower	Upper
146	100		
111	37.5	6.7	66.7
148	63.0	34.0	94.0

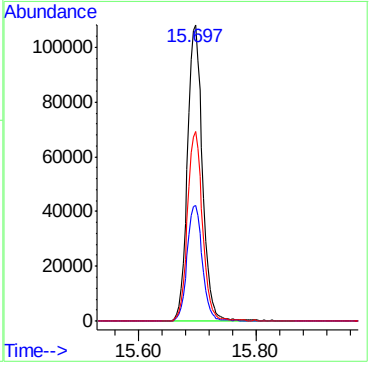




#96
1,2-dichlorobenzene
Concen: 48.48 ug/L
RT: 15.697 min Scan# 3516
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:146 Resp: 190415

Ion	Ratio	Lower	Upper
146	100		
111	39.2	9.9	69.9
148	64.1	33.5	93.5



7.4.2

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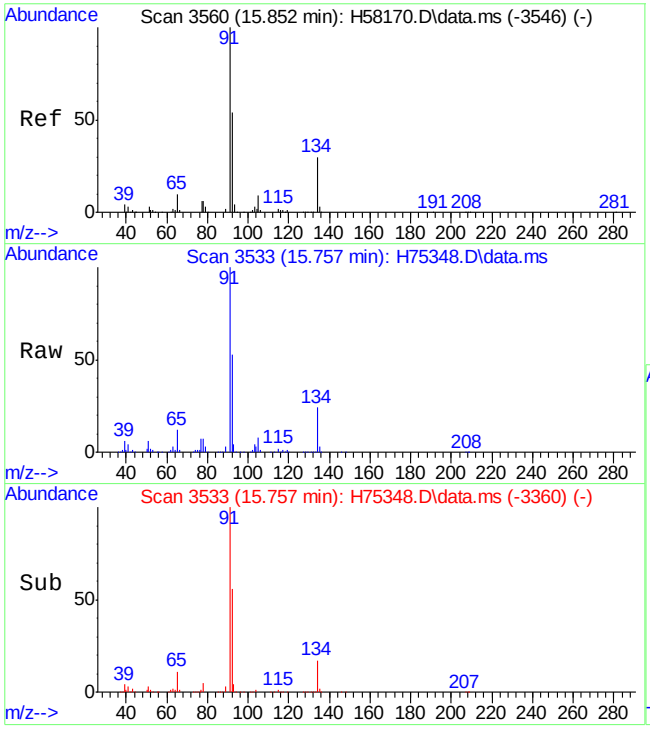
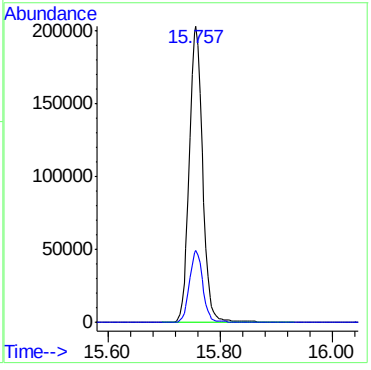
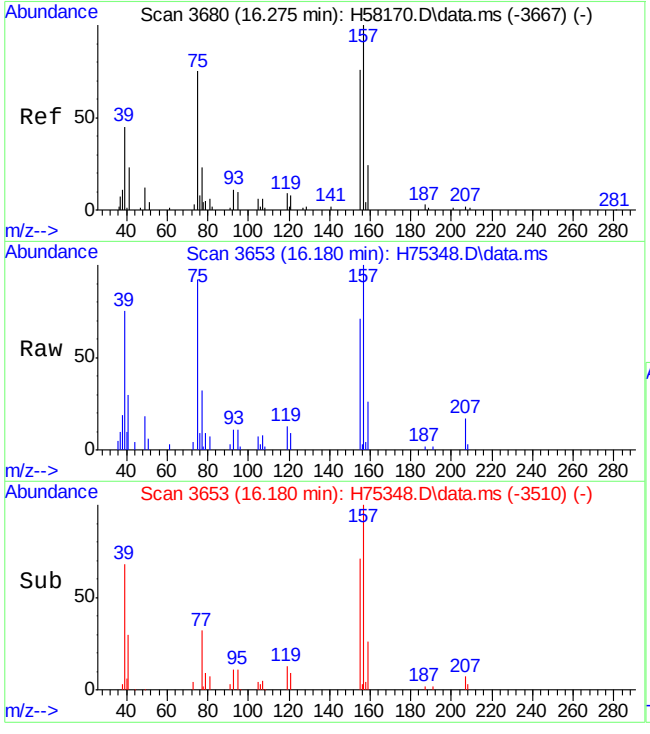


#97
n-butylbenzene
Concen: 47.65 ug/L
RT: 15.757 min Scan# 3533
Delta R.T. 0.000 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 91 Resp: 334534

Ion	Ratio	Lower	Upper
91	100		
134	24.2	0.0	59.2

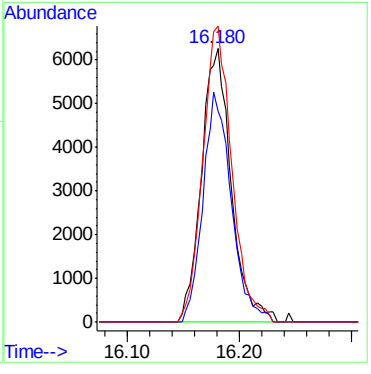


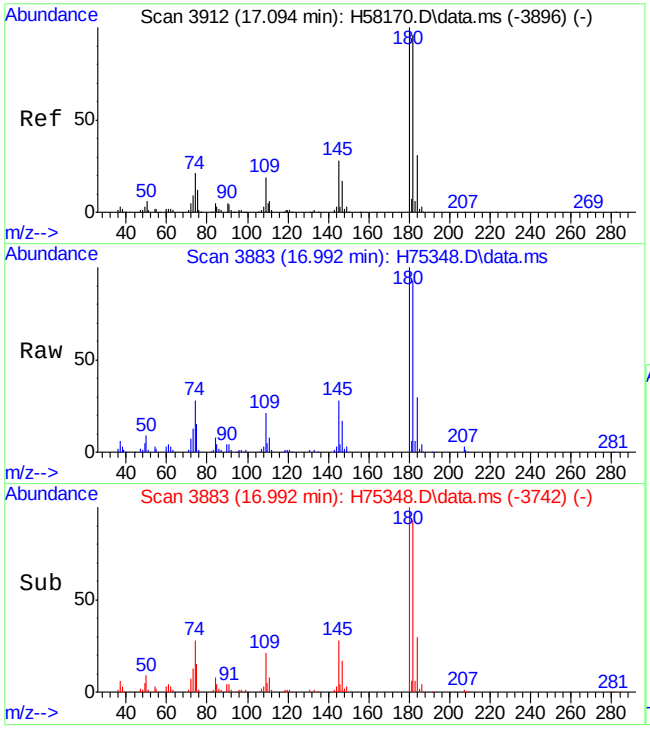


#98
1,2-dibromo-3-chloropropane
Concen: 51.95 ug/L
RT: 16.180 min Scan# 3653
Delta R.T. 0.004 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion: 75 Resp: 11651

Ion	Ratio	Lower	Upper
75	100		
155	76.9	66.2	126.2
157	108.1	88.7	148.7

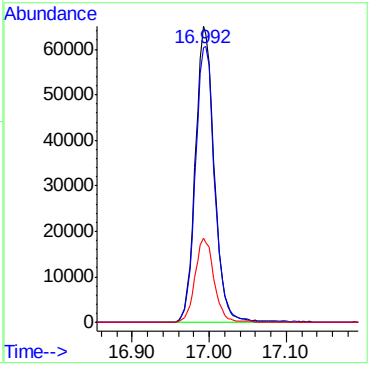


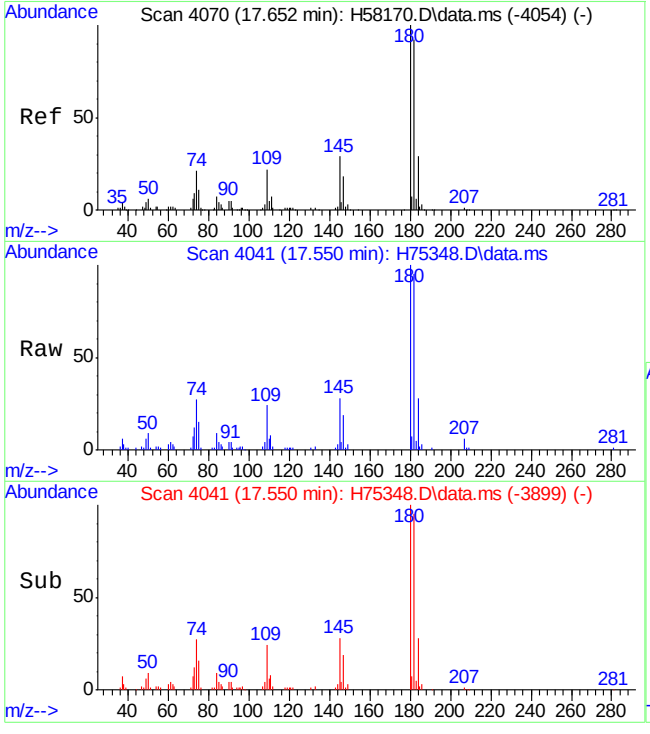


#99
1,3,5-trichlorobenzene
Concen: 45.68 ug/L
RT: 16.992 min Scan# 3883
Delta R.T. -0.003 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:180 Resp: 110222

Ion	Ratio	Lower	Upper
180	100		
182	95.2	74.1	111.1
145	28.3	28.0	42.0

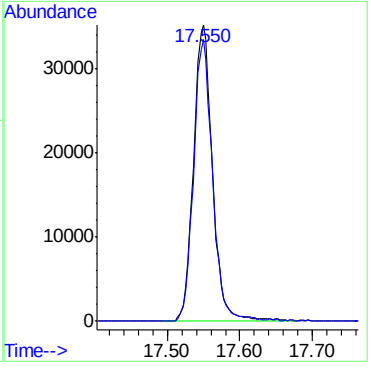


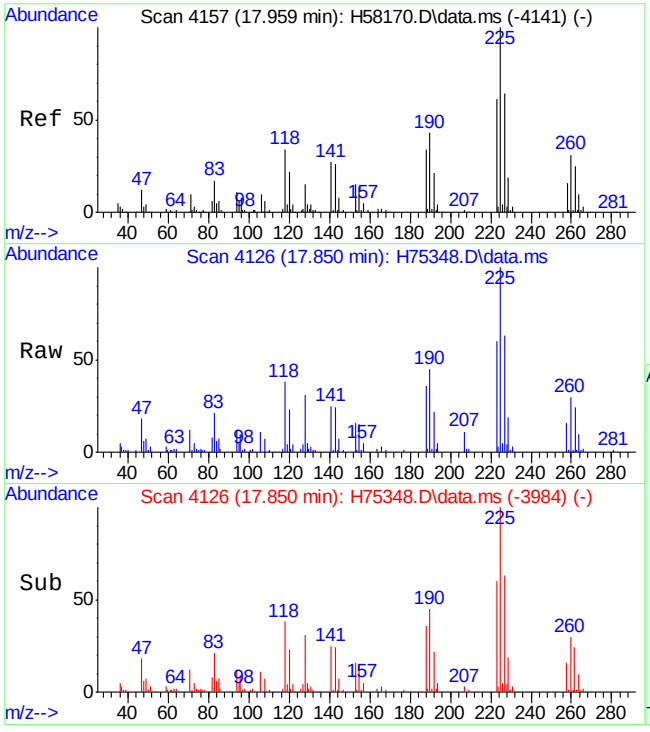


#100
1,2,4-trichlorobenzene
Concen: 51.83 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:180 Resp: 63795

Ion	Ratio	Lower	Upper
180	100		
182	94.9	62.6	122.6

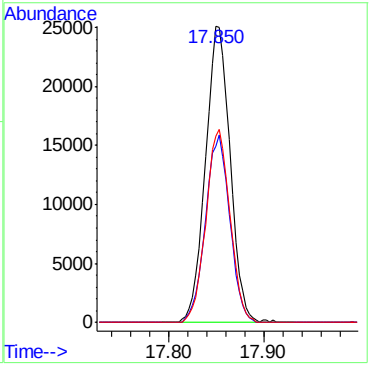


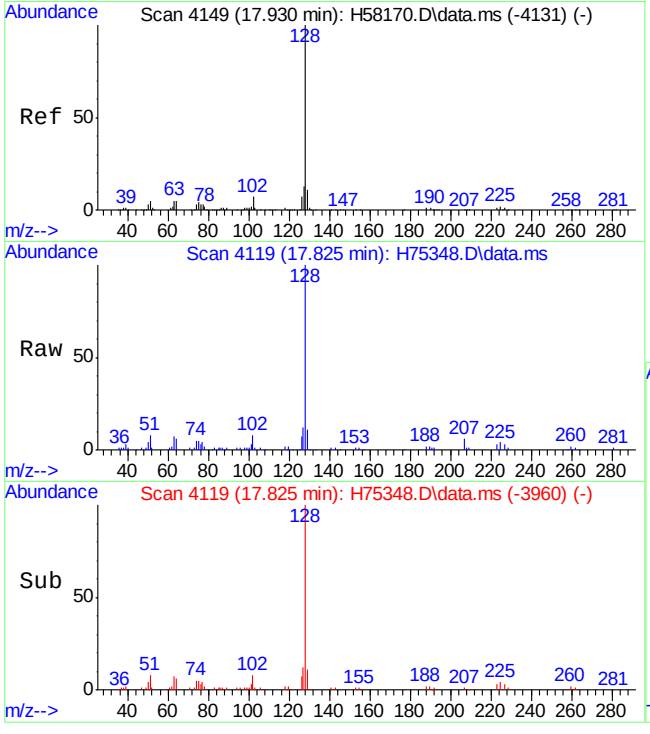


#101
hexachlorobutadiene
Concen: 49.25 ug/L
RT: 17.850 min Scan# 4126
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:225 Resp: 45134

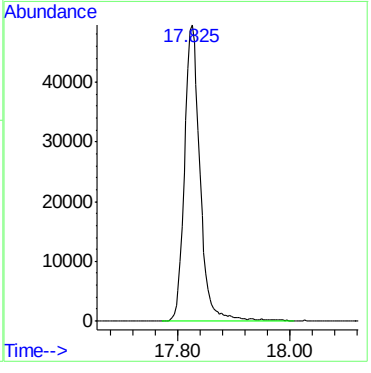
Ion	Ratio	Lower	Upper
225	100		
223	56.8	29.7	89.7
227	59.9	32.4	92.4

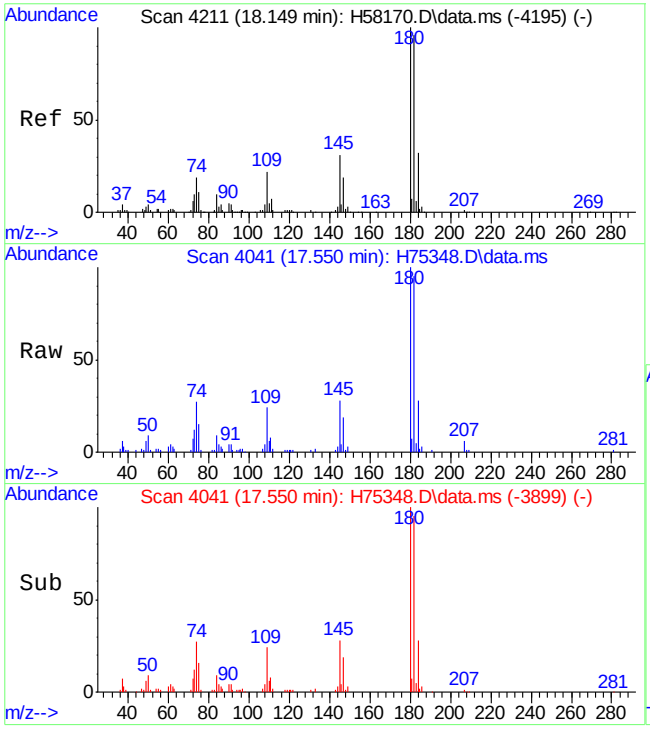




#102
naphthalene
Concen: 51.10 ug/L
RT: 17.825 min Scan# 4119
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:128 Resp: 94378

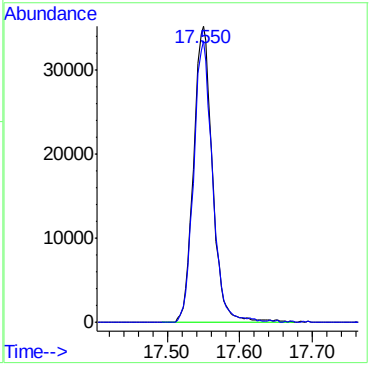




#103
1,2,3-trichlorobenzene
Concen: 51.83 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75348.D
Acq: 5 Oct 15 8:39 pm

Tgt Ion:180 Resp: 63795

Ion	Ratio	Lower	Upper
180	100		
182	94.9	64.3	124.3



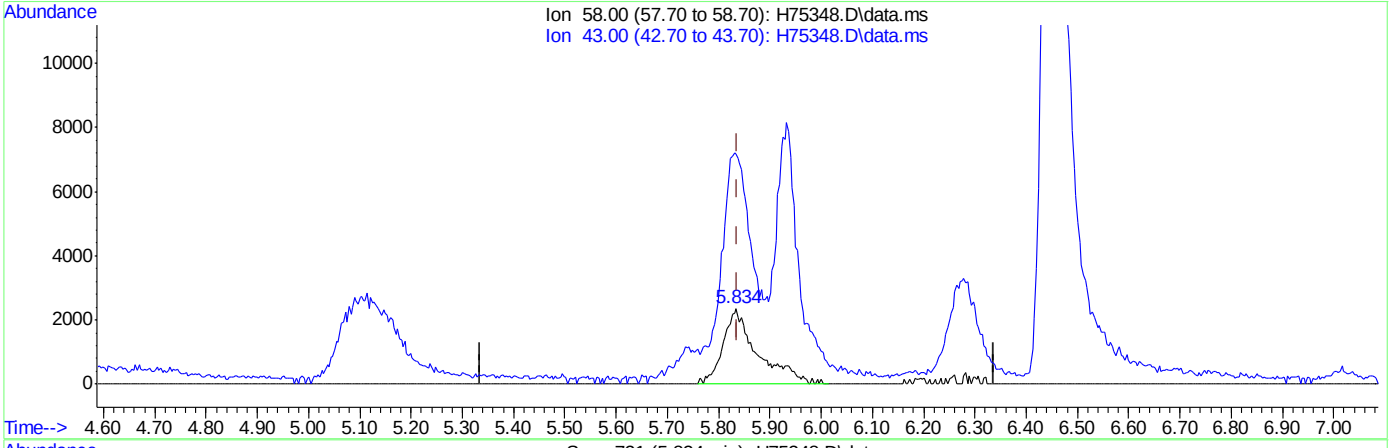
7.4.2

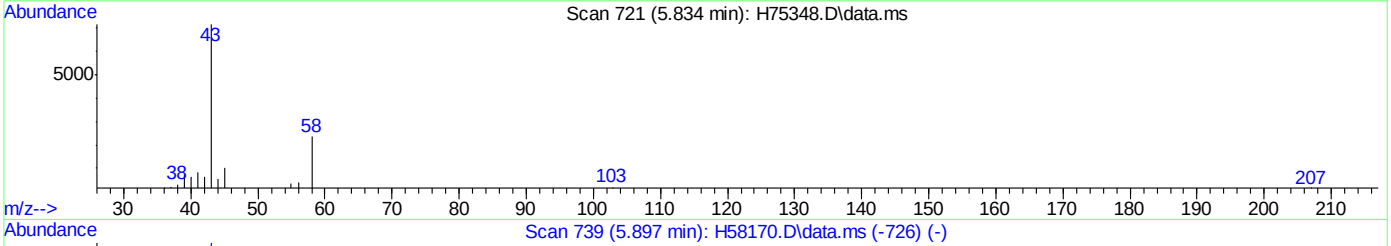
7

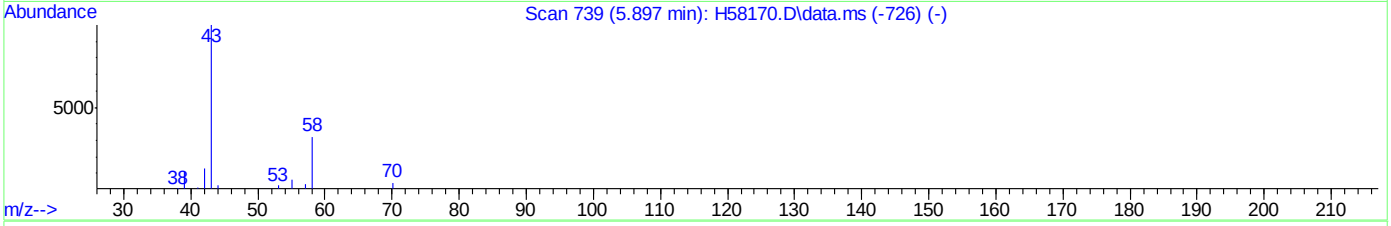
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:55:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75348.D\data.ms

(15) acetone (p)

5.834min (-0.003) 54.75ug/L

response 11013

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	276.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On    :  5 Oct 2015   8:39 pm
Operator  : kaylap
Sample    : mc41696-1msd
Misc      : ms35361,msh2507,,,,5,1
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Oct 06 08:55:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
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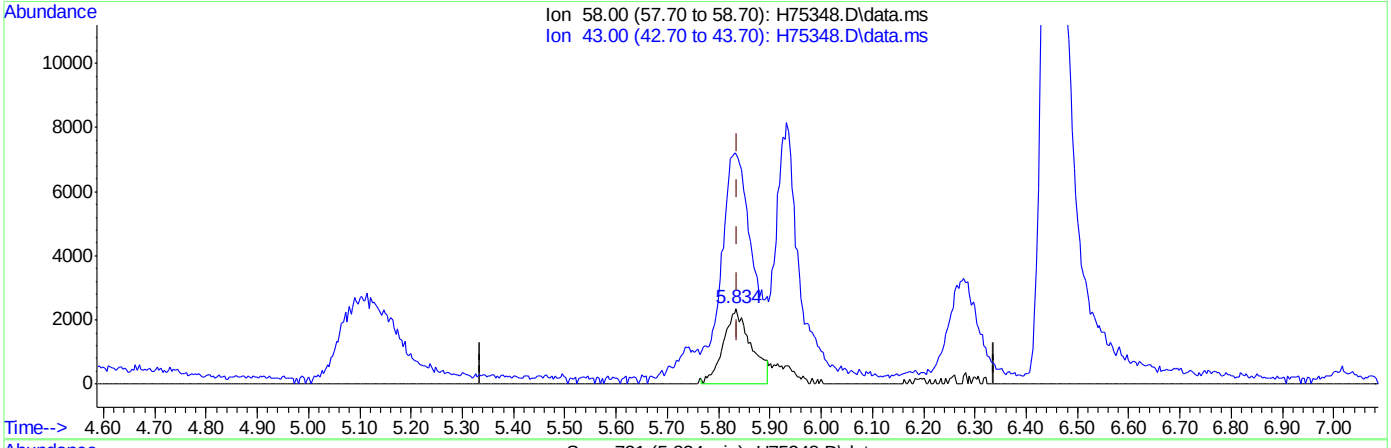
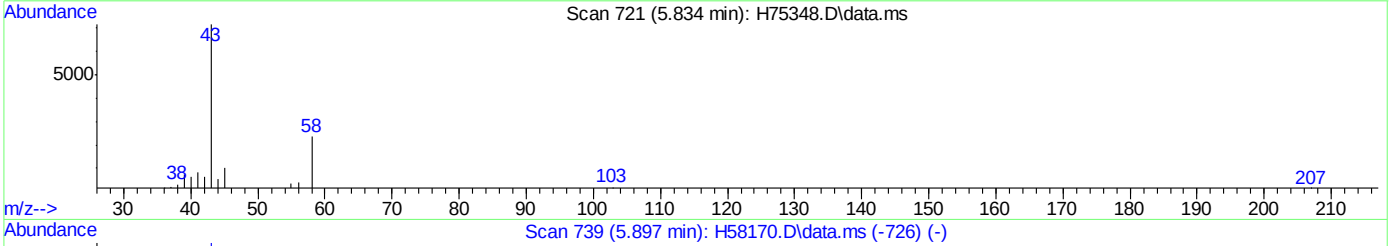
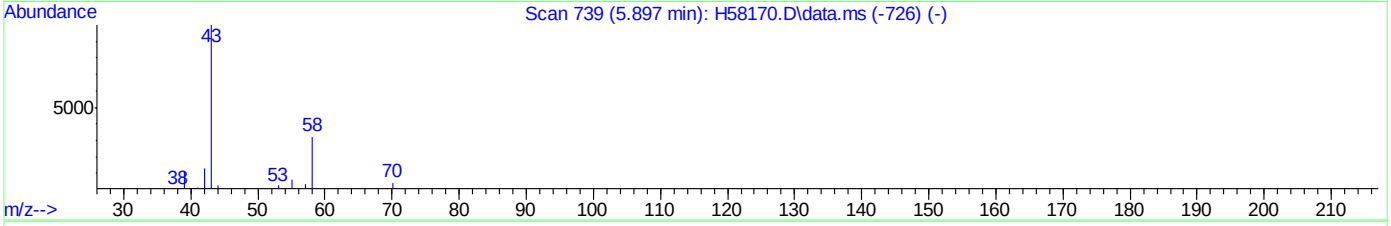






TIC: H75348.D\data.ms

(15) acetone (p)

5.834min (-0.003) 43.69ug/L m

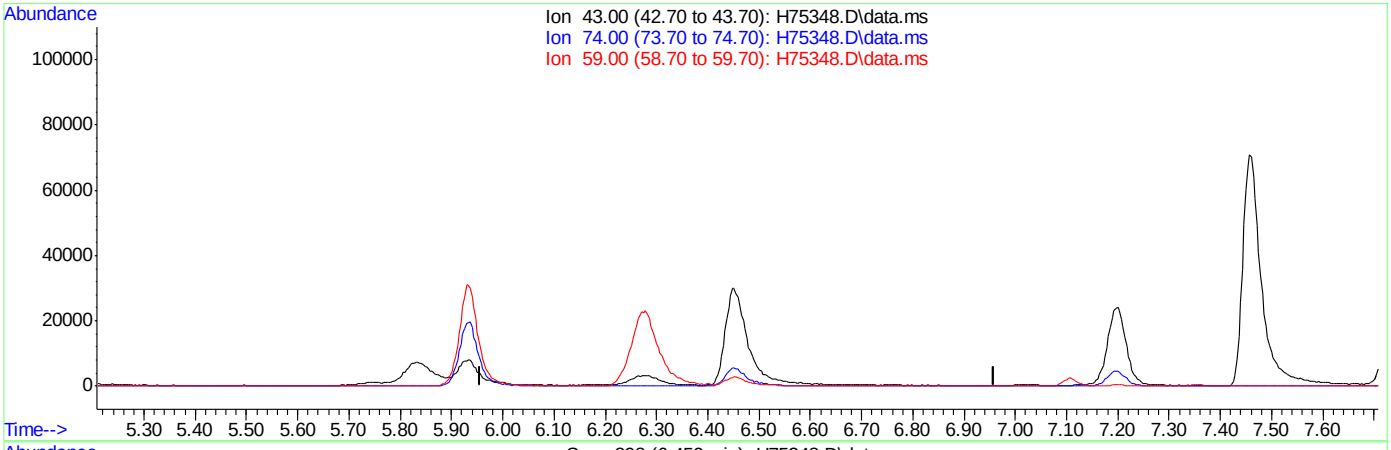
response 8788

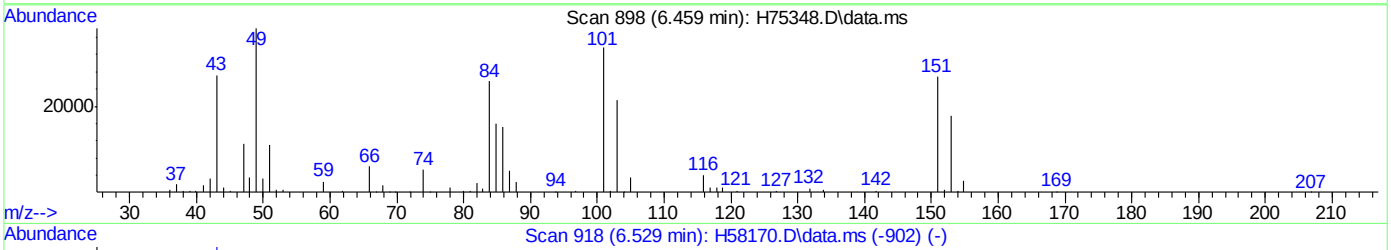
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	303.47
0.00	0.00	0.00
0.00	0.00	0.00

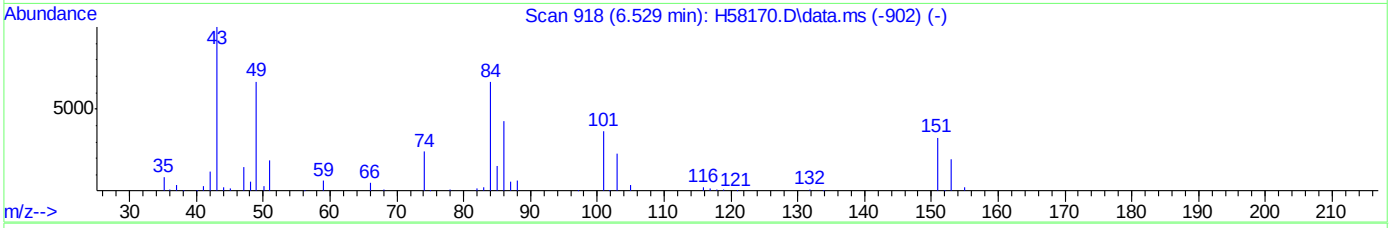
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:55:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75348.D\data.ms

(17) methyl acetate (p)

6.458min (-6.458) 0.00ug/L

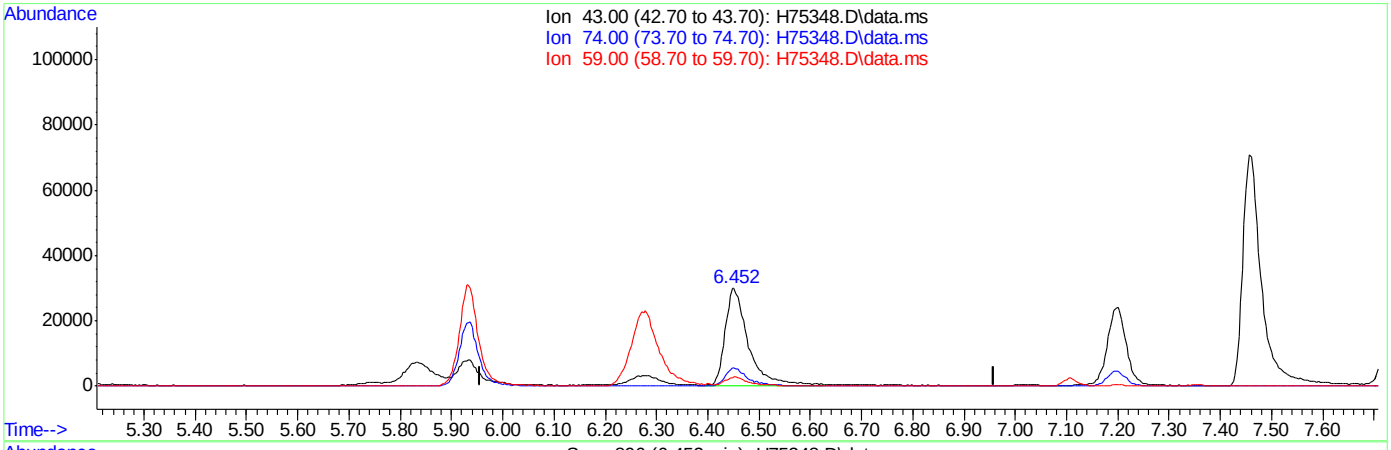
response 0

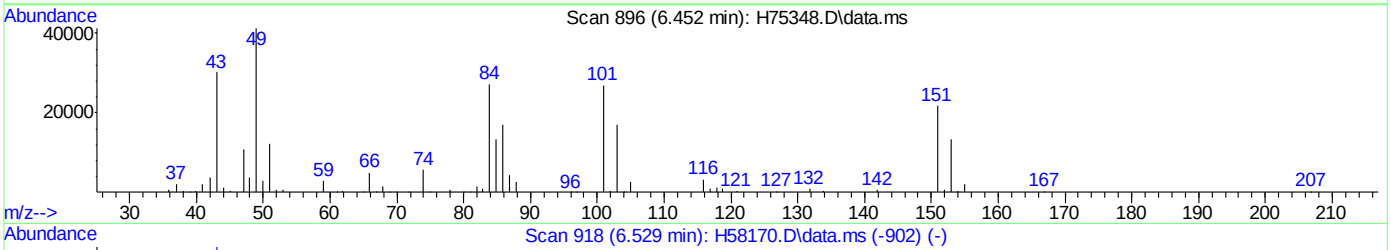
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

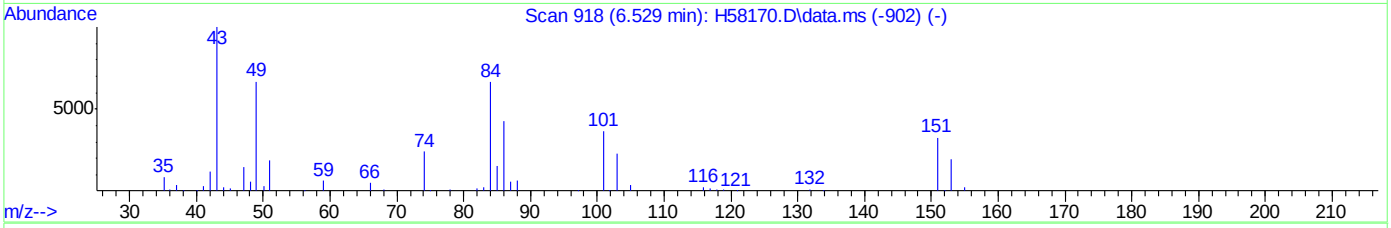
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:55:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75348.D\data.ms

(17) methyl acetate (p)

6.452min (-0.007) 51.96ug/L m

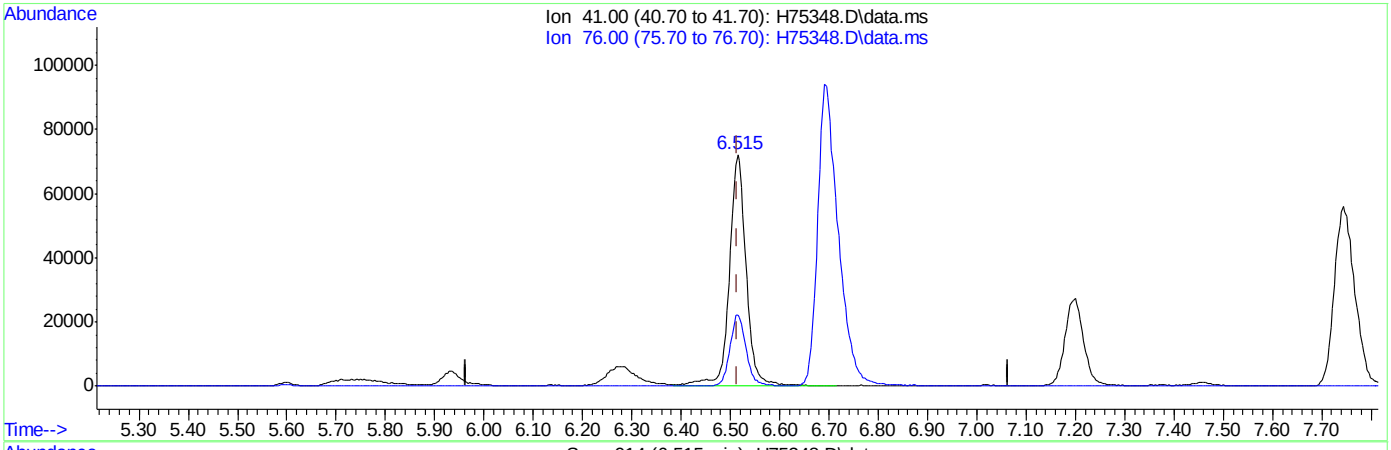
response 96009

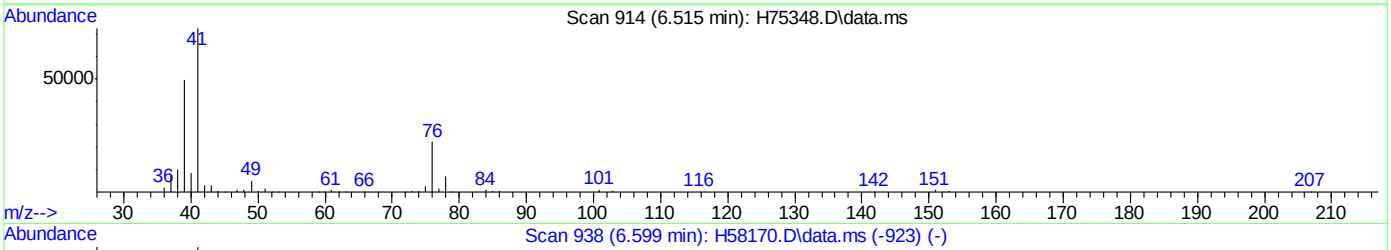
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	18.97
59.00	13.30	9.41
0.00	0.00	0.00

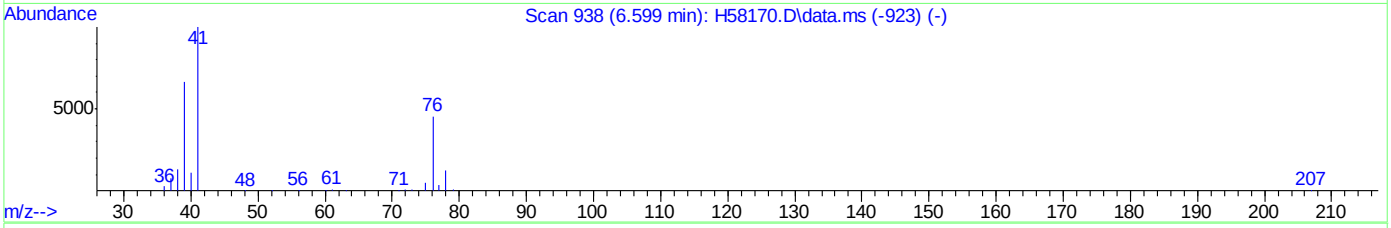
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:55:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75348.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 51.02ug/L

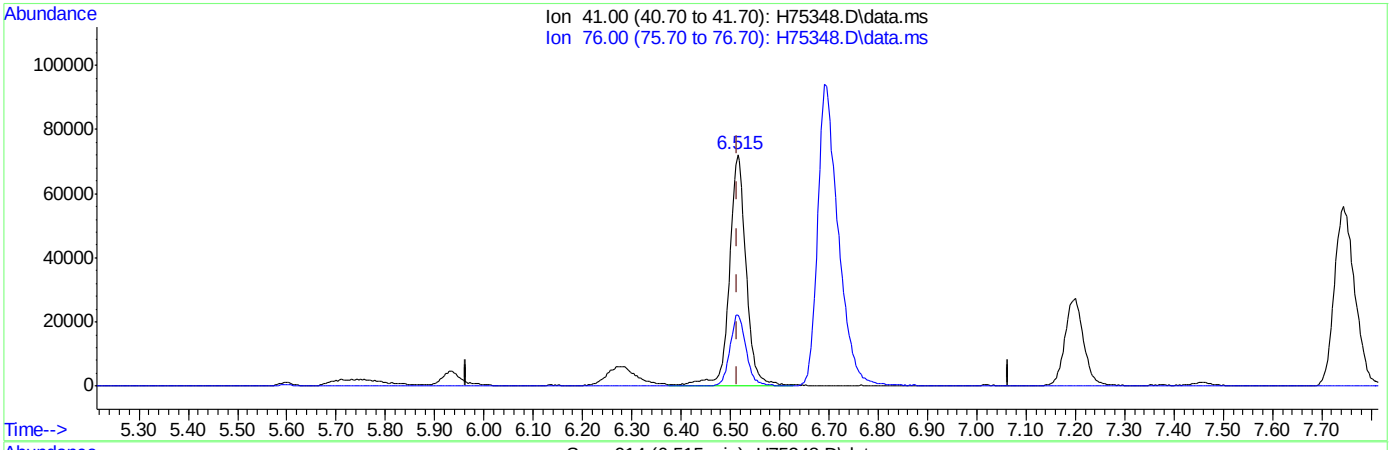
response 171151

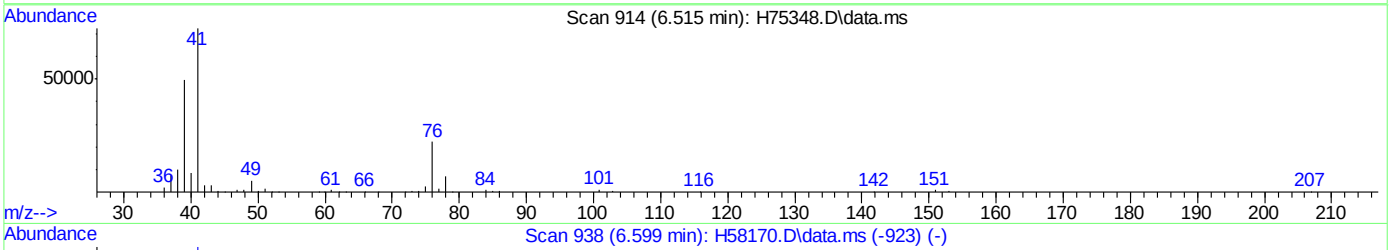
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.68
0.00	0.00	0.00
0.00	0.00	0.00

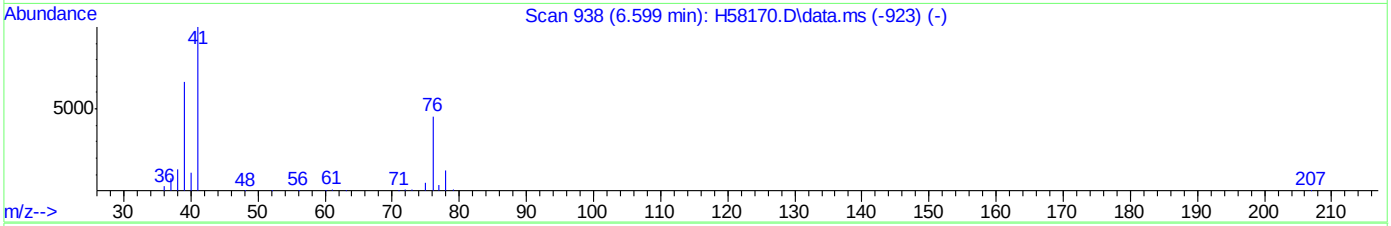
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75348.D
Acq On : 5 Oct 2015 8:39 pm
Operator : kaylap
Sample : mc41696-1msd
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 06 08:55:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75348.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 50.72ug/L m

response 170156

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.68
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/07/15 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:20:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.190	65	64175	500.00	ug/L		0.00
4) pentafluorobenzene	8.615	168	155566	50.00	ug/L		0.00
42) 1,4-difluorobenzene	9.479	114	248917	50.00	ug/L		0.00
66) chlorobenzene-d5	12.733	82	156761	50.00	ug/L		0.00
80) 1,4-dichlorobenzene-d4	15.298	152	143525	50.00	ug/L		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.251	113	84561	53.75	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.50%				
60) toluene-d8 (s)	11.275	98	304987	50.51	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.02%				
82) bromofluorobenzene (s)	13.964	95	135585	47.69	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.38%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.272	59	66090	445.92	ug/L		95
3) Ethanol	5.111	45	76890	3957.41	ug/L		99
5) dichlorodifluoromethane	4.027	85	30065	17.75	ug/L		96
6) chloromethane	4.264	50	60306	40.78	ug/L		97
7) vinyl chloride	4.497	62	65989	40.48	ug/L		95
8) bromomethane	4.955	96	43431	44.92	ug/L		98
9) chloroethane	5.103	64	45434	45.87	ug/L		94
11) trichlorofluoromethane	5.700	101	98155	40.40	ug/L		98
12) freon-113	6.466	101	67985	44.08	ug/L		90
13) acrolein	5.696	56	30012	430.09	ug/L		99
14) 1,1-dichloroethene	6.275	96	64069	47.95	ug/L	#	72
15) acetone	5.830	58	6404m	38.71	ug/L		
16) ethyl ether	5.933	59	61196	45.88	ug/L		89
17) methyl acetate	6.455	43	74285m	48.89	ug/L		
18) methylene chloride	6.451	84	81851	48.43	ug/L	#	71
19) methyl tert butyl ether	7.200	73	196227	47.24	ug/L		90
20) acrylonitrile	6.332	53	30173	49.39	ug/L		92
21) allyl chloride	6.515	41	131981	47.84	ug/L		89
22) trans-1,2-dichloroethene	7.104	96	69243	46.52	ug/L		83
23) iodomethane	6.363	142	107208	44.81	ug/L		92
24) carbon disulfide	6.691	76	201212	41.20	ug/L		97
25) propionitrile	7.376	54	9866	44.87	ug/L		100
26) vinyl acetate	7.457	43	149507	51.02	ug/L		93
27) chloroprene	7.722	53	112676	43.80	ug/L		100
28) di-isopropyl ether	7.761	45	276288	50.38	ug/L		90
29) methacrylonitrile	7.874	41	46103	43.74	ug/L		93
30) 2-butanone	7.775	72	8488	45.51	ug/L	#	82
31) 1,1-dichloroethane	7.358	63	142008	46.63	ug/L		95
32) tert-butyl ethyl ether	8.159	59	237917	46.65	ug/L		90
33) Hexane	7.747	41	131971	47.16	ug/L		93
34) isobutyl alcohol	8.159	43	48793	369.87	ug/L		77
35) 2,2-dichloropropane	8.212	77	103729	46.28	ug/L		94
36) cis-1,2-dichloroethene	7.927	96	78696	48.08	ug/L		86
37) ethyl acetate	8.159	43	46938	70.55	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:20:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.089	128	37838	47.38	ug/L	#	50
39)	chloroform	8.128	83	140510	48.01	ug/L		99
41)	1,1,1-trichloroethane	8.879	97	118009	50.66	ug/L		93
43)	cyclohexane	9.162	56	125722	42.62	ug/L	#	77
44)	carbon tetrachloride	9.243	117	100818	51.69	ug/L		96
45)	1,1-dichloropropene	9.052	75	95593	44.44	ug/L		92
46)	benzene	9.275	78	289878	45.80	ug/L		100
47)	tetrahydrofuran	8.459	42	21949	41.64	ug/L		90
48)	1,2-dichloroethane	8.781	62	110244	46.69	ug/L		99
49)	tert-amyl methyl ether	9.402	73	189536	44.06	ug/L		90
50)	heptane	9.761	43	97369	43.71	ug/L		89
51)	trichloroethene	9.899	95	77518	46.74	ug/L		78
52)	1,2-dichloropropane	9.860	63	80586	45.84	ug/L		95
53)	dibromomethane	9.836	93	50560	47.97	ug/L		92
54)	bromodichloromethane	9.949	83	98515	46.69	ug/L		95
55)	methylcyclohexane	10.414	83	114990	42.69	ug/L		85
57)	methyl methacrylate	10.058	69	48207	43.81	ug/L		92
58)	1,4-dioxane	10.061	88	2575	179.60	ug/L		99
59)	cis-1,3-dichloropropene	10.573	75	110261	46.81	ug/L		90
61)	4-methyl-2-pentanone	10.668	43	81233	45.52	ug/L		90
62)	toluene	11.349	92	178962	46.29	ug/L		99
63)	trans-1,3-dichloropropene	10.997	75	99027	41.72	ug/L		99
64)	1,1,2-trichloroethane	11.162	83	59756	46.45	ug/L		90
65)	ethyl methacrylate	11.378	69	97362	46.22	ug/L		93
67)	tetrachloroethene	12.087	166	77904	41.68	ug/L		95
68)	1,3-dichloropropane	11.399	76	125330	44.65	ug/L		97
69)	dibromochloromethane	11.685	129	71671	38.82	ug/L		98
70)	1,2-dibromoethane	11.939	107	70568	42.69	ug/L		97
71)	2-hexanone	11.529	43	55094	40.61	ug/L		92
72)	chlorobenzene	12.768	112	201129	40.43	ug/L		90
73)	1,1,1,2-tetrachloroethane	12.687	131	69475	45.14	ug/L		95
74)	ethylbenzene	12.948	91	347630	43.56	ug/L		96
75)	m,p-xylene	13.135	106	266291	88.93	ug/L		98
76)	o-xylene	13.544	106	131215	42.71	ug/L		96
77)	styrene	13.474	104	192100	37.17	ug/L		96
78)	bromoform	13.290	173	44594	43.21	ug/L		98
79)	trans-1,4-dichloro-2-b...	13.700	53	25463	42.97	ug/L	#	81
81)	isopropylbenzene	13.908	105	328347	39.40	ug/L		98
83)	bromobenzene	14.190	156	90500	39.29	ug/L	#	84
84)	1,1,2,2-tetrachloroethane	13.548	83	91075	44.82	ug/L		97
85)	1,2,3-trichloropropane	13.696	75	98554	42.72	ug/L		95
86)	n-propylbenzene	14.356	91	386132	39.28	ug/L		94
87)	2-chlorotoluene	14.469	91	238802	40.62	ug/L		89
88)	4-chlorotoluene	14.547	91	254728	41.19	ug/L		91
89)	1,3,5-trimethylbenzene	14.635	105	286399	43.74	ug/L		98
90)	tert-butylbenzene	14.938	91	168052	42.11	ug/L		90
91)	1,2,4-trimethylbenzene	15.044	105	280789	42.74	ug/L		100
92)	sec-butylbenzene	15.161	105	357949	42.17	ug/L		96
93)	1,3-dichlorobenzene	15.259	146	163378	41.92	ug/L		99
94)	p-isopropyltoluene	15.337	119	309147	43.32	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:20:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

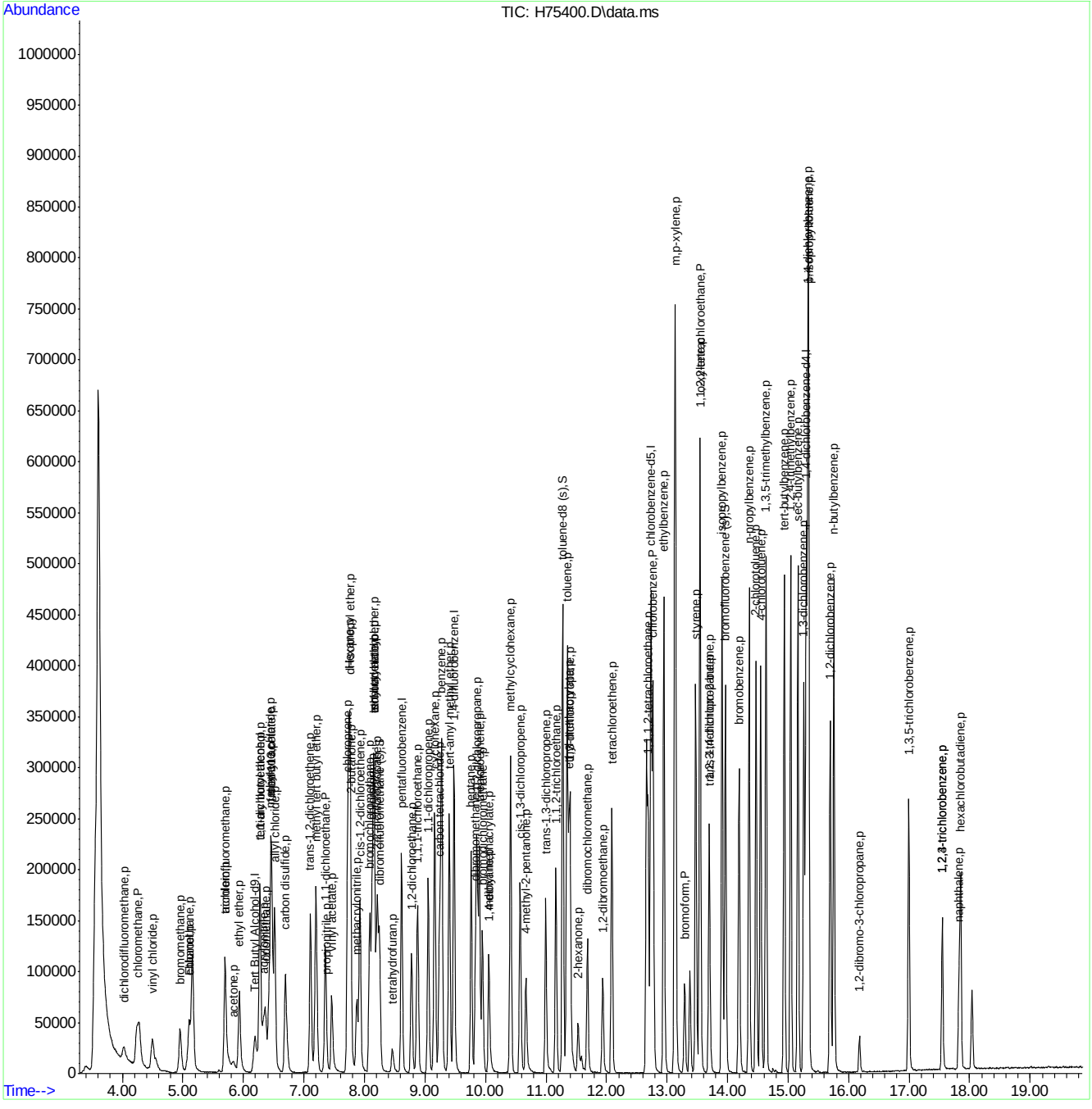
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.330	146	178140	41.90	ug/L	98
96) 1,2-dichlorobenzene	15.697	146	154862	43.75	ug/L	100
97) n-butylbenzene	15.757	91	282999	44.74	ug/L	90
98) 1,2-dibromo-3-chloropr...	16.180	75	10053	49.75	ug/L	89
99) 1,3,5-trichlorobenzene	16.992	180	91275	41.97	ug/L	95
100) 1,2,4-trichlorobenzene	17.550	180	52620	46.98	ug/L	96
101) hexachlorobutadiene	17.853	225	39130	47.04	ug/L	98
102) naphthalene	17.825	128	77678	46.11	ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	52620	46.98	ug/L	98

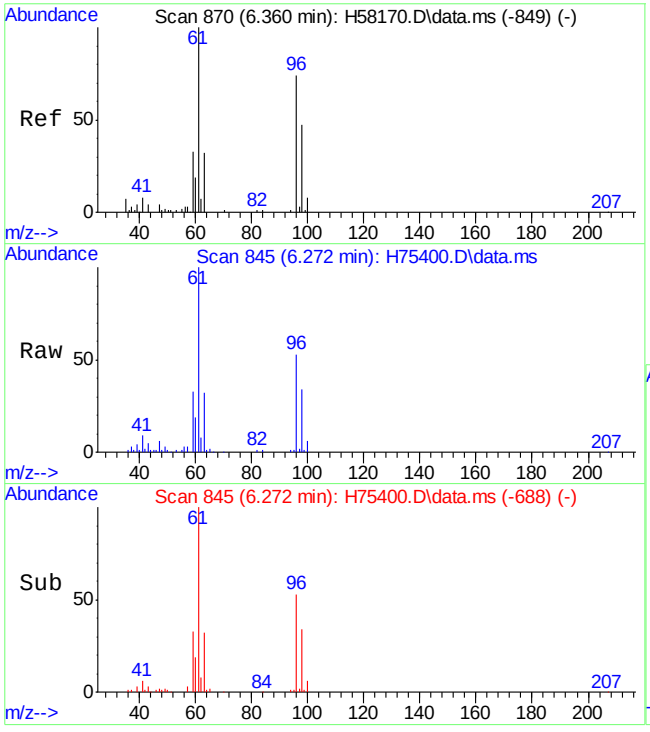
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:20:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

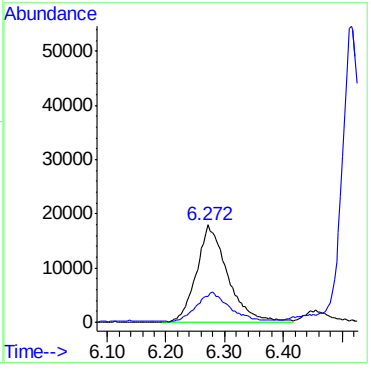


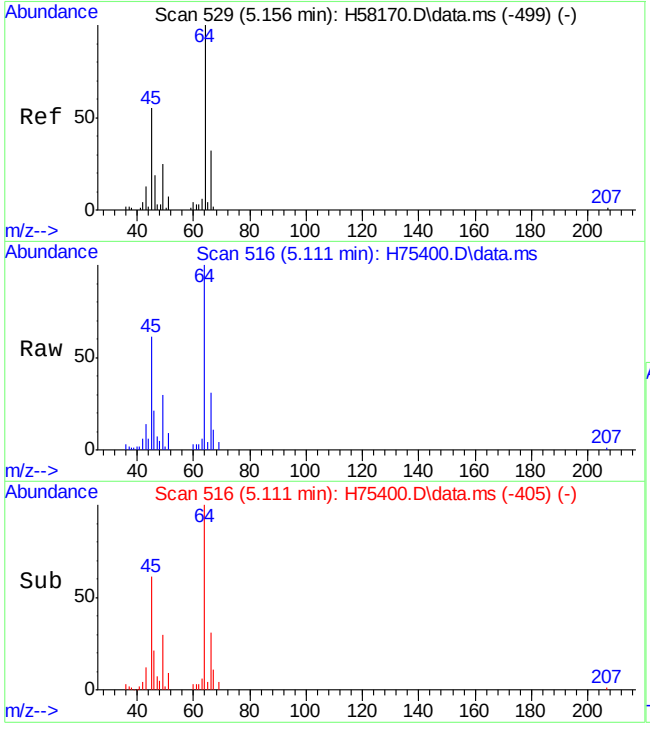


#2
tertiary butyl alcohol
Concen: 445.92 ug/L
RT: 6.272 min Scan# 845
Delta R.T. -0.006 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 59 Resp: 66090

Ion	Ratio	Lower	Upper
59	100		
41	24.7	0.0	57.4

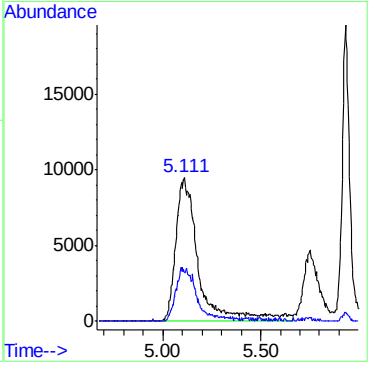


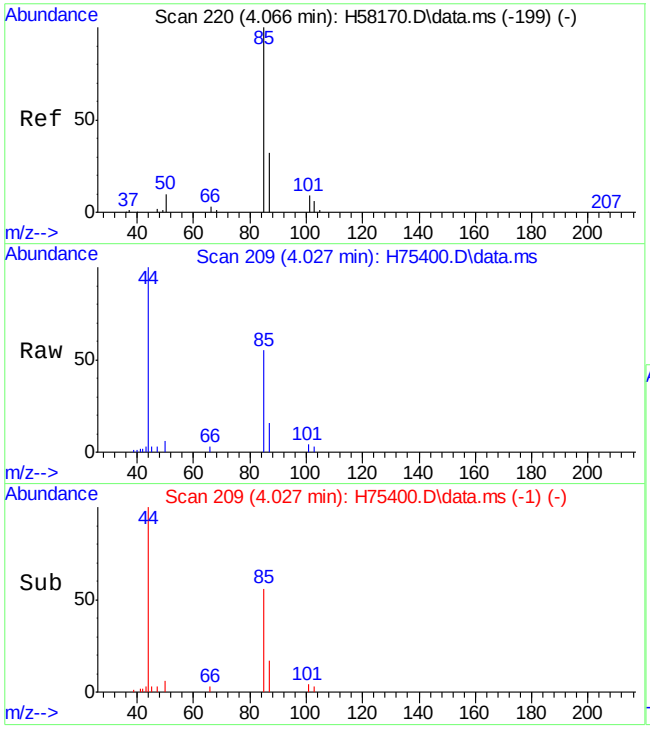


#3
Ethanol
Concen: 3957.41 ug/L
RT: 5.111 min Scan# 516
Delta R.T. -0.009 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 45 Resp: 76890

Ion	Ratio	Lower	Upper
45	100		
46	34.0	27.7	41.5

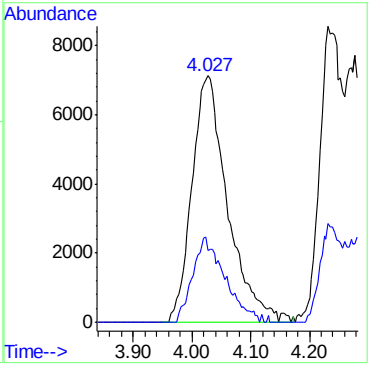


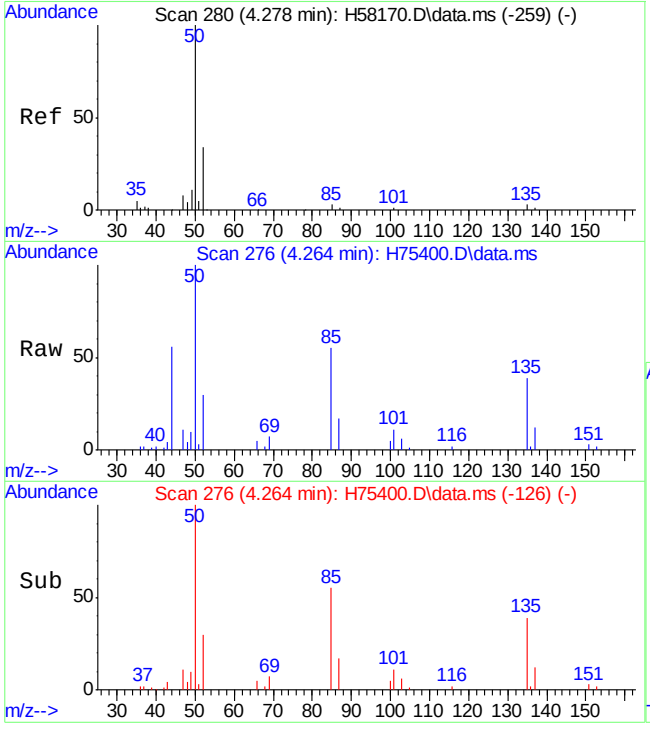


#5
dichlorodifluoromethane
Concen: 17.75 ug/L
RT: 4.027 min Scan# 209
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 85 Resp: 30065

Ion	Ratio	Lower	Upper
85	100		
87	29.4	1.5	61.5

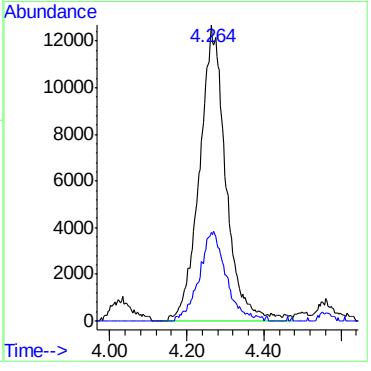


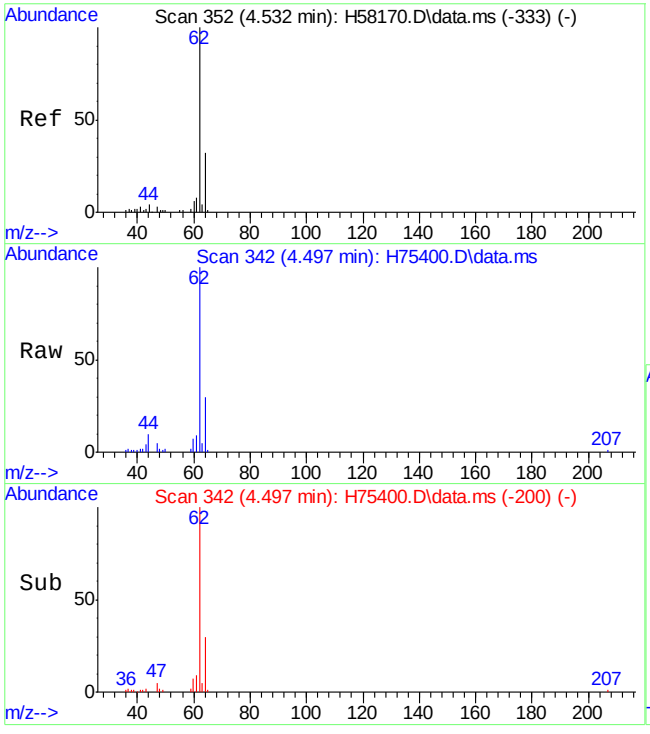


#6
chloromethane
Concen: 40.78 ug/L
RT: 4.264 min Scan# 276
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 50 Resp: 60306

Ion	Ratio	Lower	Upper
50	100		
52	29.8	1.7	61.7

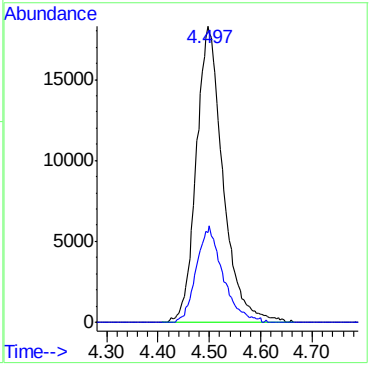


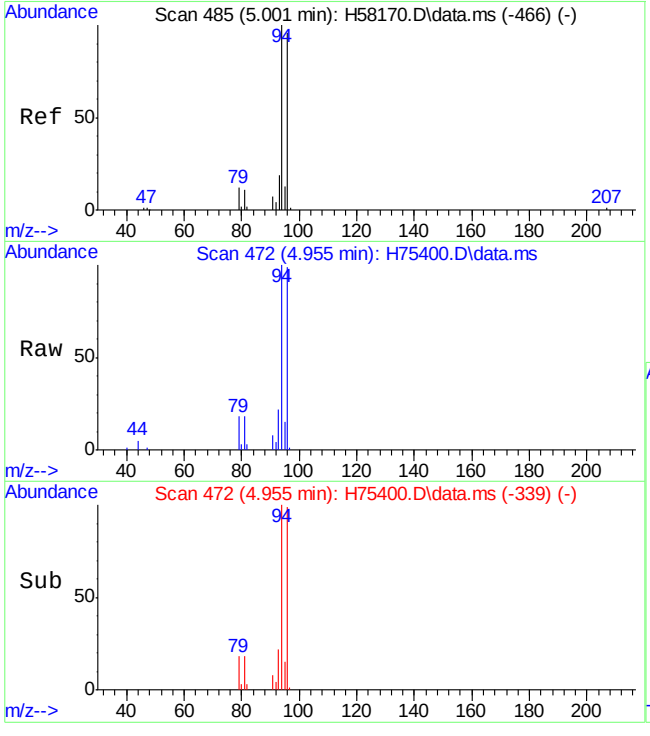


#7
vinyl chloride
Concen: 40.48 ug/L
RT: 4.497 min Scan# 342
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 62 Resp: 65989

Ion	Ratio	Lower	Upper
62	100		
64	30.4	3.2	63.2

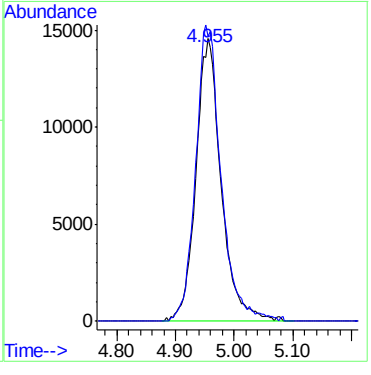


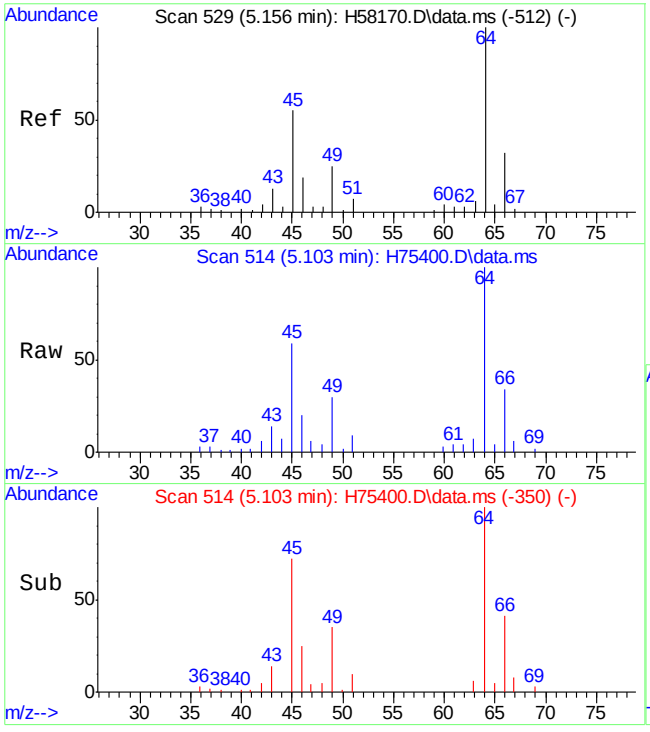


#8
bromomethane
Concen: 44.92 ug/L
RT: 4.955 min Scan# 472
Delta R.T. 0.008 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 96 Resp: 43431

Ion	Ratio	Lower	Upper
96	100		
94	100.9	72.8	132.8

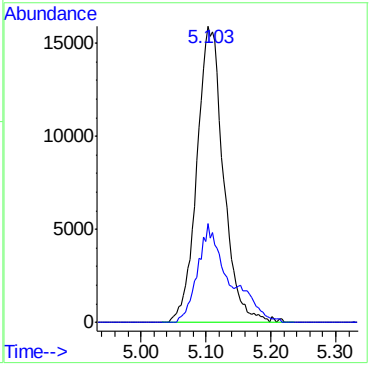


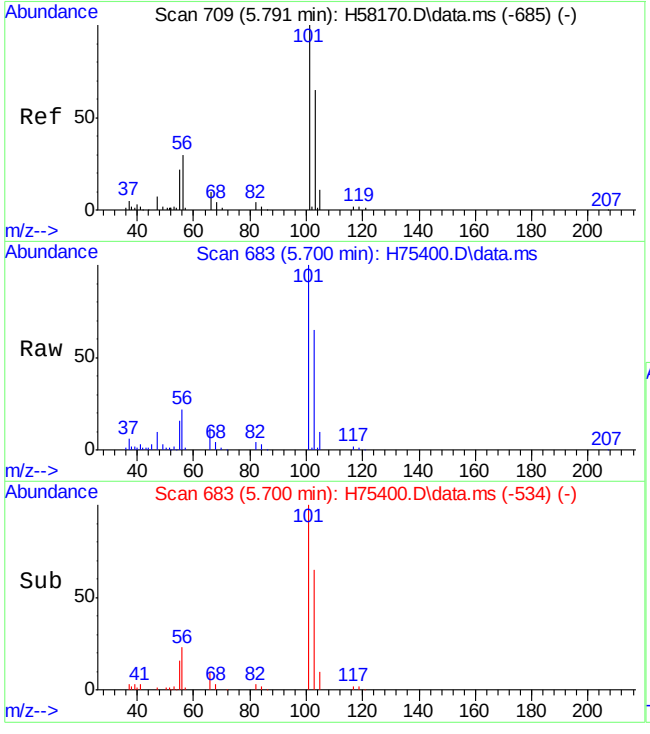


#9
chloroethane
Concen: 45.87 ug/L
RT: 5.103 min Scan# 514
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 64 Resp: 45434

Ion	Ratio	Lower	Upper
64	100		
66	33.5	0.3	60.3

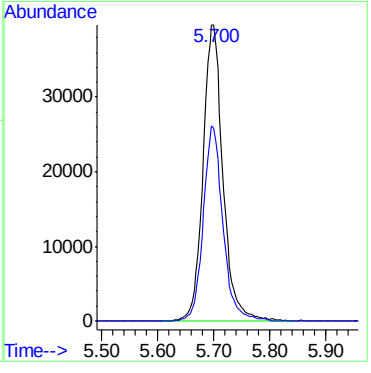




#11
trichlorofluoromethane
Concen: 40.40 ug/L
RT: 5.700 min Scan# 683
Delta R.T. 0.005 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:101 Resp: 98155

Ion	Ratio	Lower	Upper
101	100		
103	65.1	33.5	93.5



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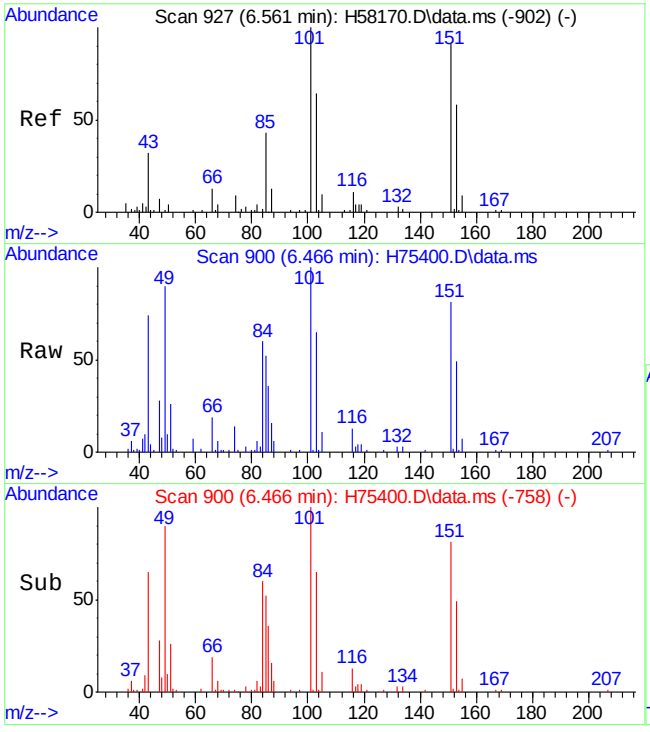
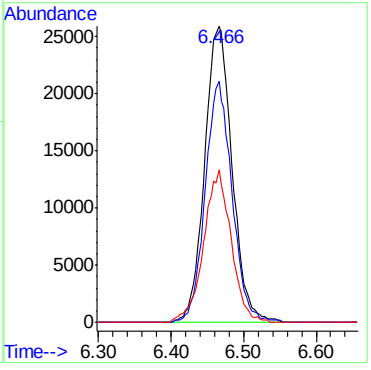
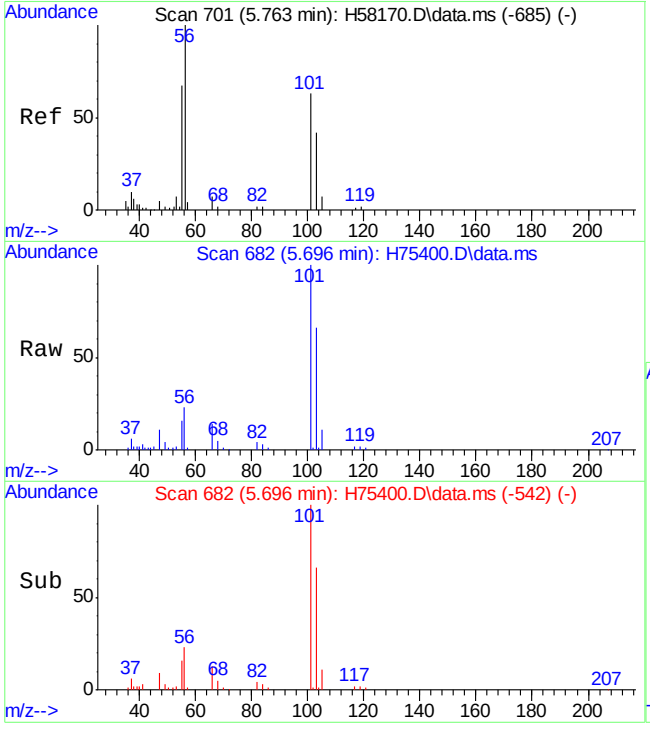


#12
freon-113
Concen: 44.08 ug/L
RT: 6.466 min Scan# 900
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:101 Resp: 67985

Ion	Ratio	Lower	Upper
101	100		
151	81.4	57.8	117.8
85	51.5	10.8	70.8

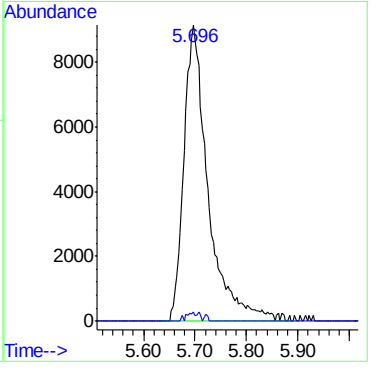




#13
acrolein
Concen: 430.09 ug/L
RT: 5.696 min Scan# 682
Delta R.T. -0.007 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

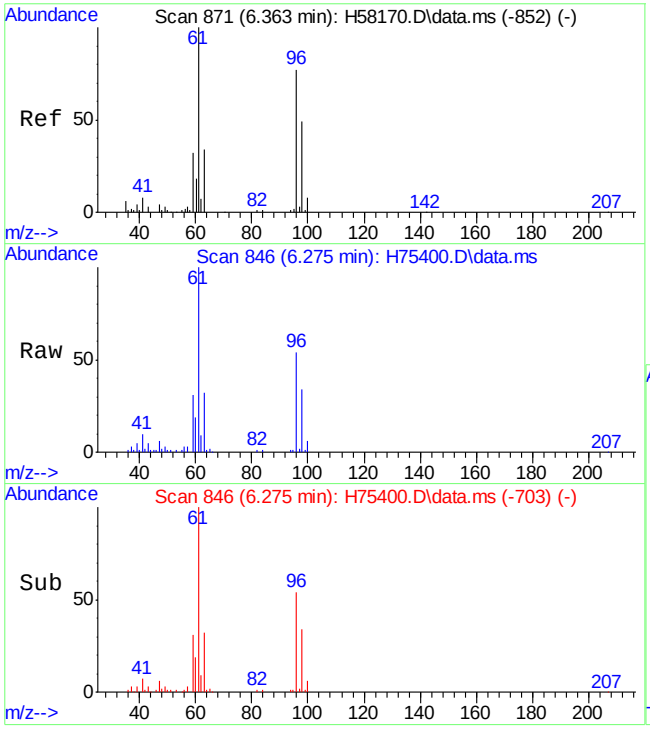
Tgt Ion: 56 Resp: 30012

Ion	Ratio	Lower	Upper
56	100		
52	3.2	0.0	32.7



7.4.3

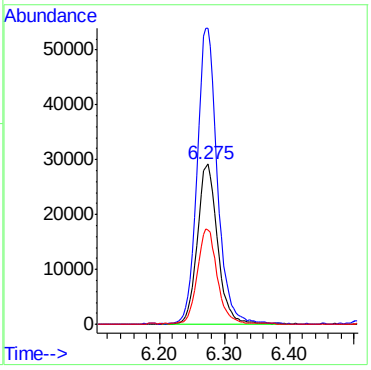
7

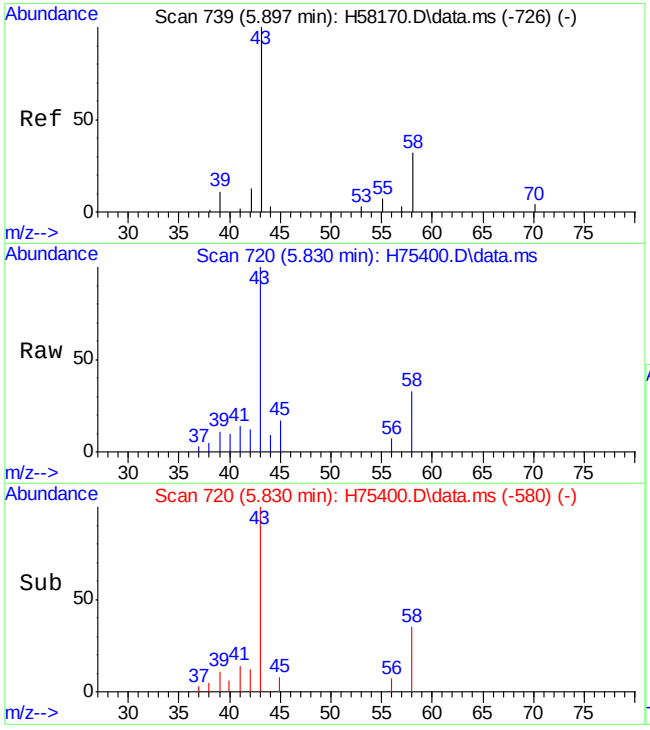


#14
1,1-dichloroethene
Concen: 47.95 ug/L
RT: 6.275 min Scan# 846
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 96 Resp: 64069

Ion	Ratio	Lower	Upper
96	100		
61	184.5	114.6	174.6#
63	59.1	18.4	78.4

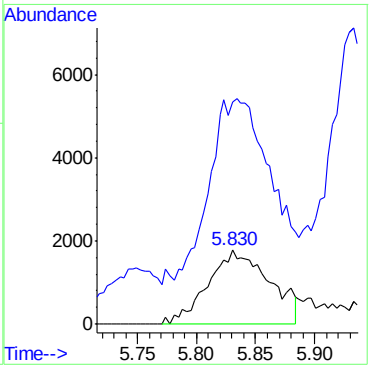


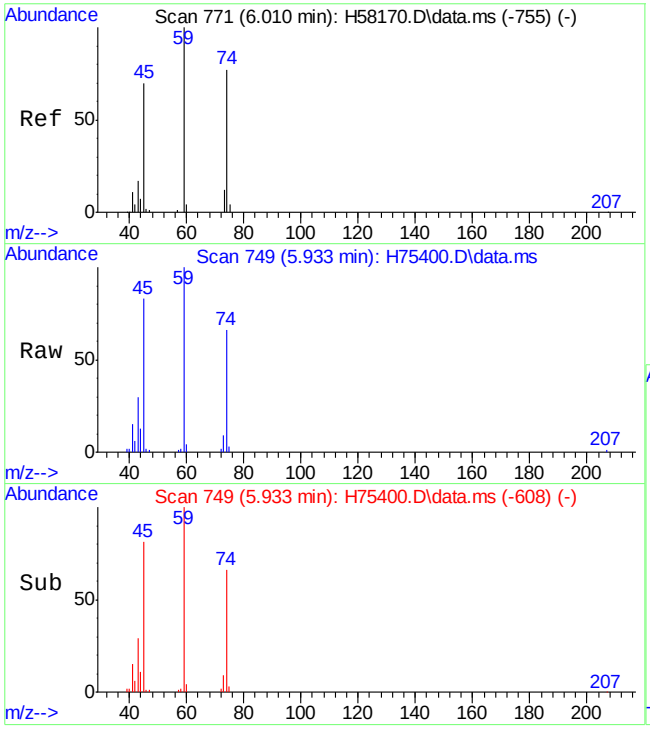


#15
acetone
Concen: 38.71 ug/L m
RT: 5.830 min Scan# 720
Delta R.T. -0.007 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 58 Resp: 6404

Ion	Ratio	Lower	Upper
58	100		
43	301.1	270.8	330.8

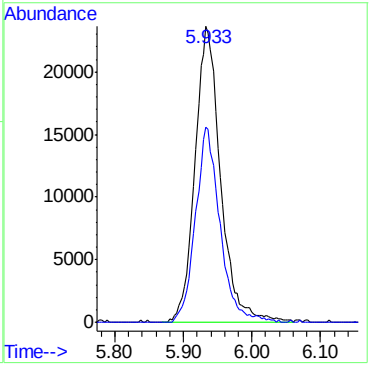


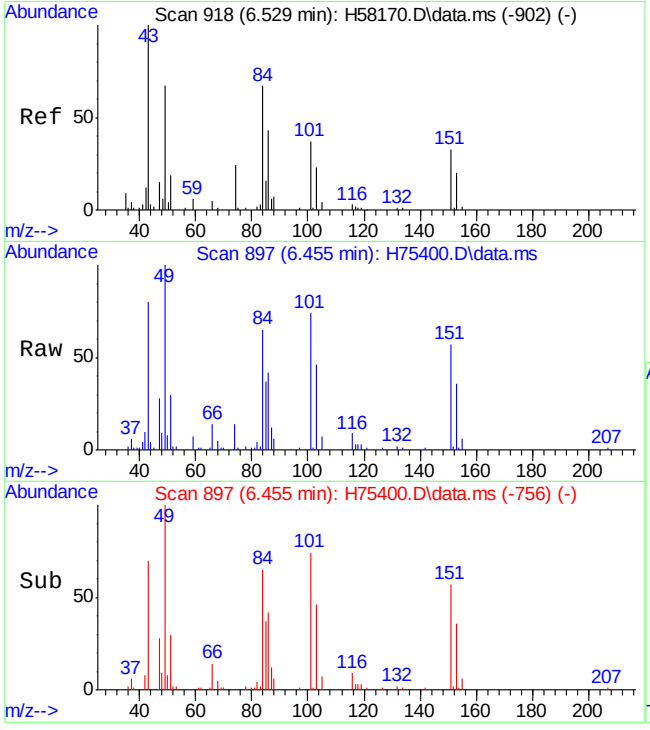


#16
ethyl ether
Concen: 45.88 ug/L
RT: 5.933 min Scan# 749
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 59 Resp: 61196

Ion	Ratio	Lower	Upper
59	100		
74	66.0	45.0	105.0

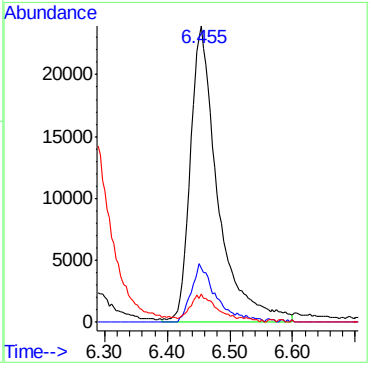


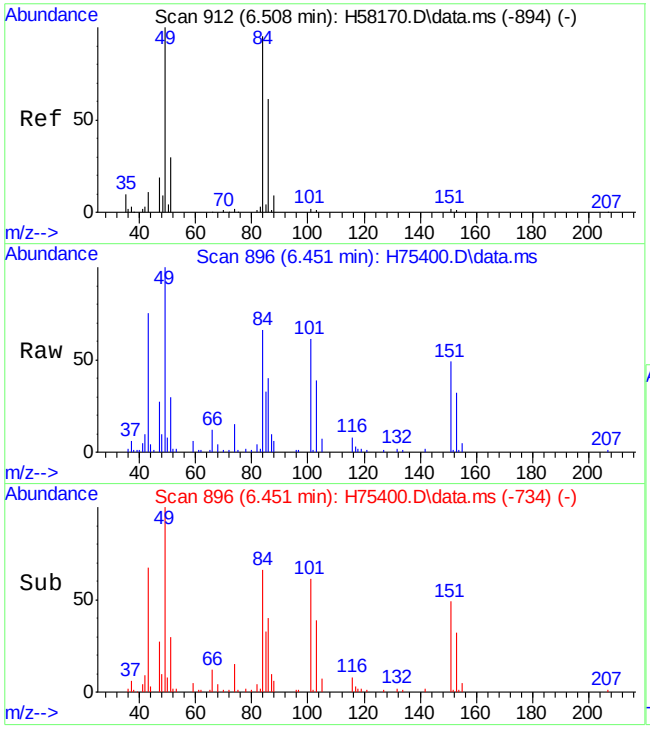


#17
methyl acetate
Concen: 48.89 ug/L m
RT: 6.455 min Scan# 897
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 74285

Ion	Ratio	Lower	Upper
43	100		
74	18.1	5.4	45.4
59	9.4	0.0	33.3

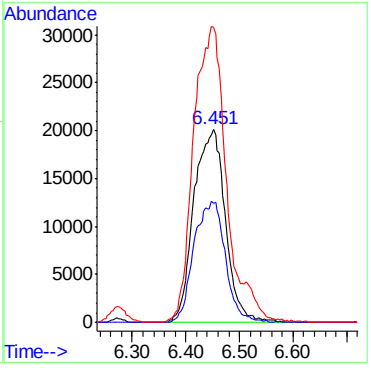


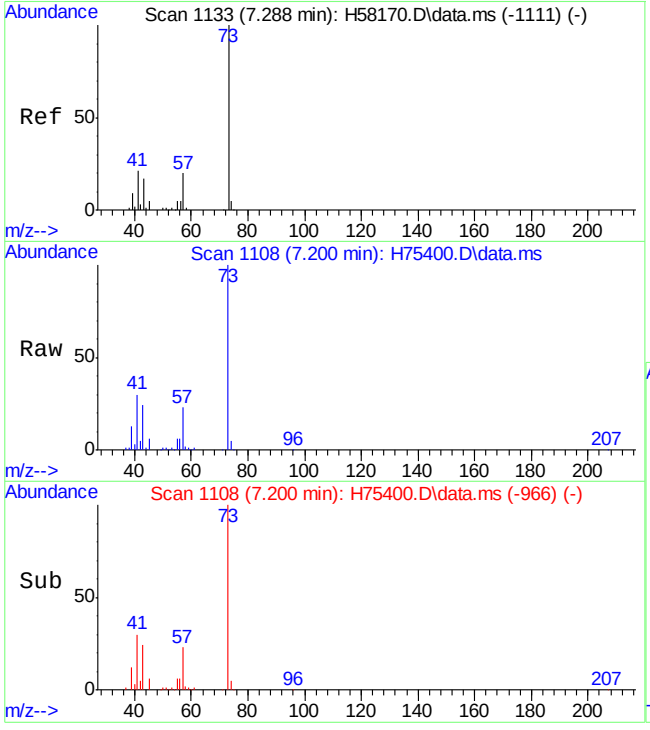


#18
methylene chloride
Concen: 48.43 ug/L
RT: 6.451 min Scan# 896
Delta R.T. 0.011 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 84 Resp: 81851

Ion	Ratio	Lower	Upper
84	100		
86	61.6	28.8	88.8
49	152.4	77.5	137.5#

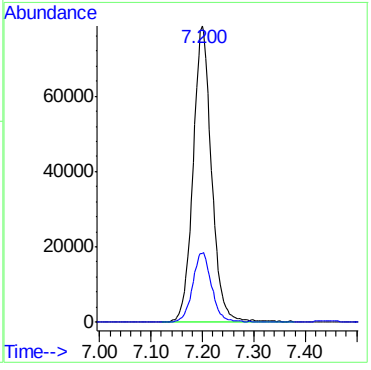


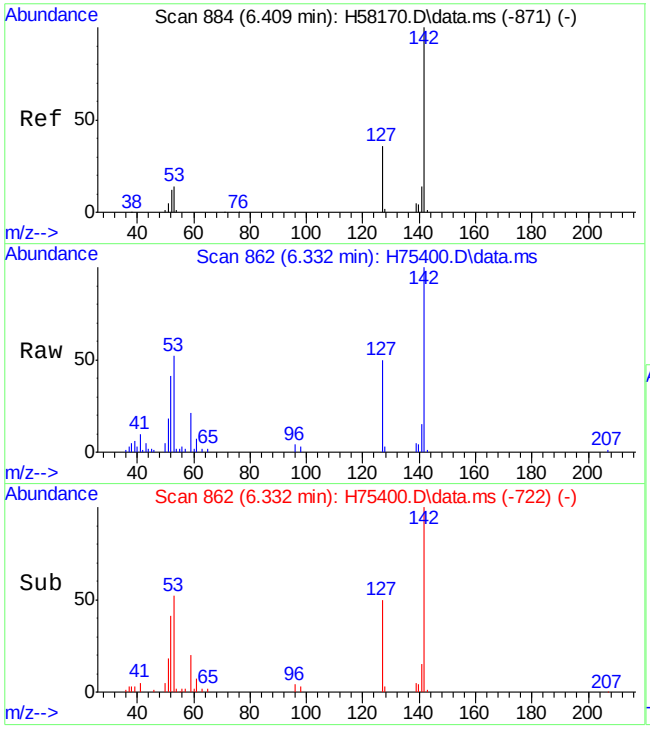


#19
methyl tert butyl ether
Concen: 47.24 ug/L
RT: 7.200 min Scan# 1108
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 73 Resp: 196227

Ion	Ratio	Lower	Upper
73	100		
57	23.2	0.0	48.6

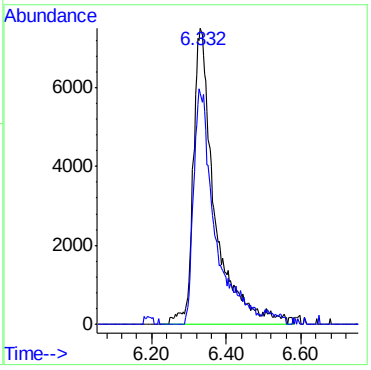


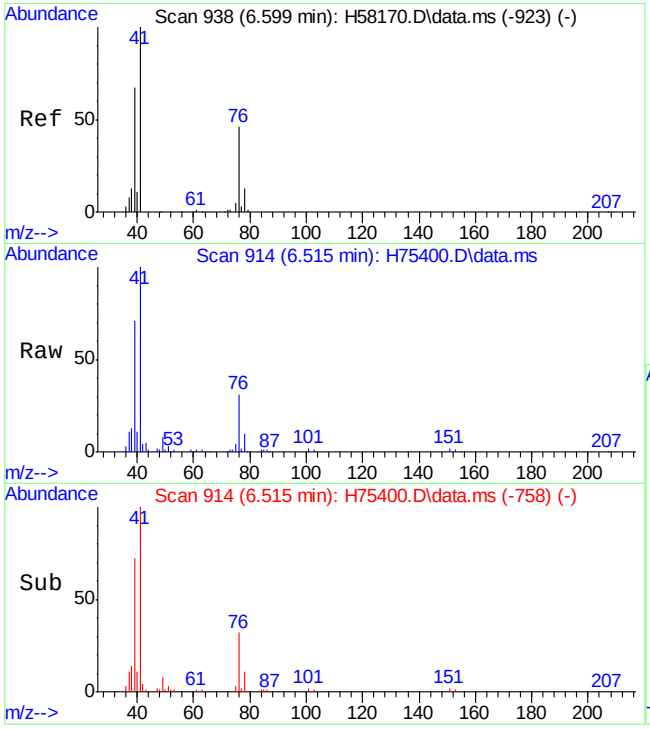


#20
acrylonitrile
Concen: 49.39 ug/L
RT: 6.332 min Scan# 862
Delta R.T. -0.007 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 53 Resp: 30173

Ion	Ratio	Lower	Upper
53	100		
52	77.9	54.8	114.8

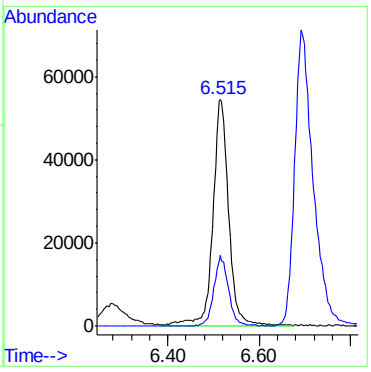


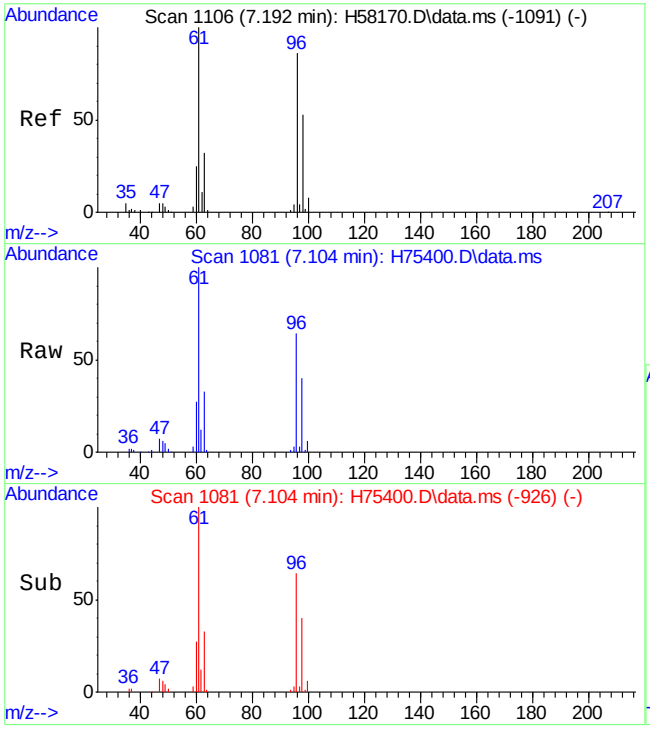


#21
allyl chloride
Concen: 47.84 ug/L
RT: 6.515 min Scan# 914
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 41 Resp: 131981

Ion	Ratio	Lower	Upper
41	100		
76	31.3	7.8	67.8

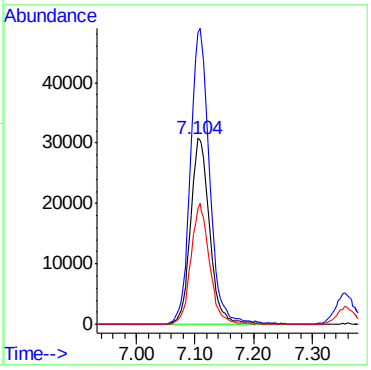


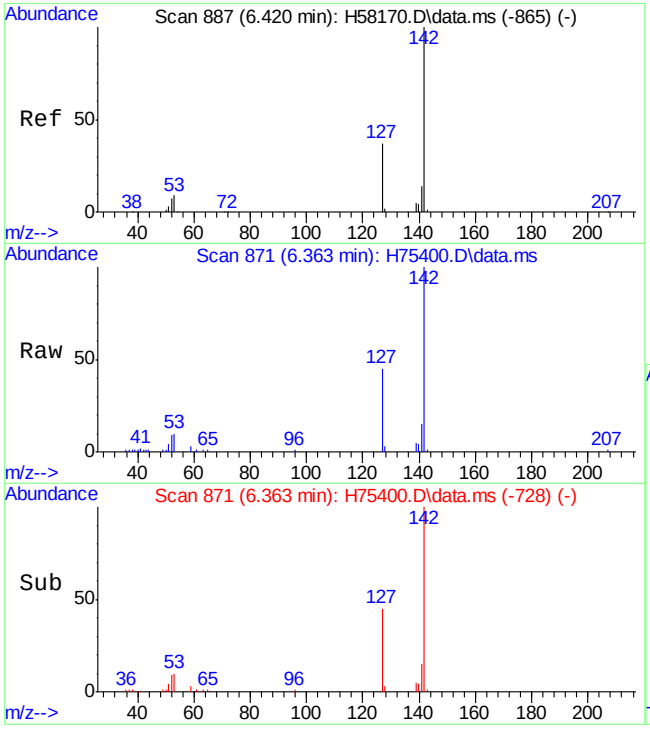


#22
trans-1,2-dichloroethene
Concen: 46.52 ug/L
RT: 7.104 min Scan# 1081
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 96 Resp: 69243

Ion	Ratio	Lower	Upper
96	100		
61	157.2	99.9	159.9
98	62.2	34.7	94.7

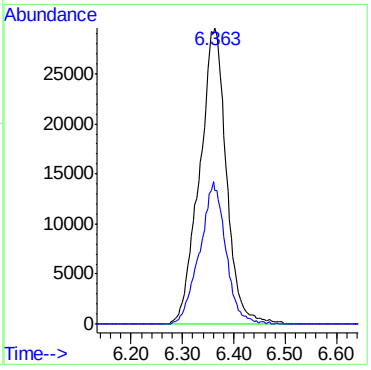


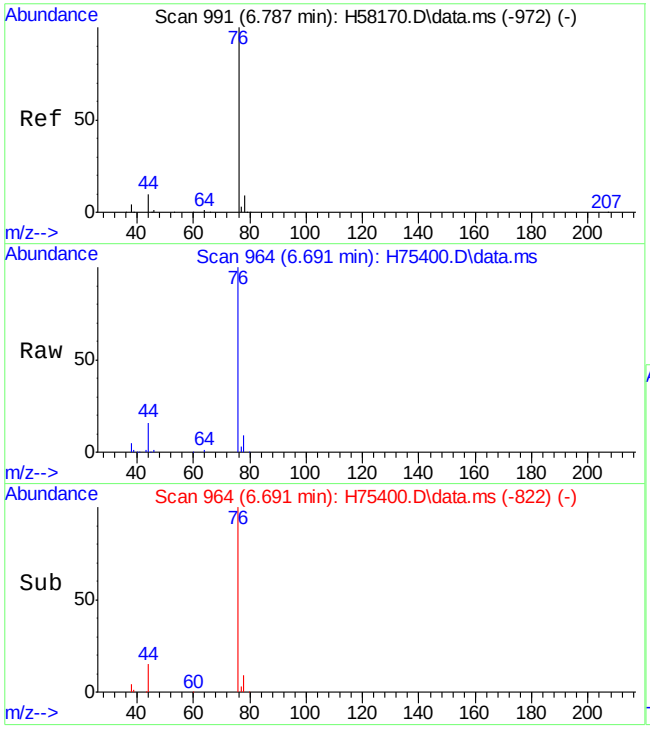


#23
iodomethane
Concen: 44.81 ug/L
RT: 6.363 min Scan# 871
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:142 Resp: 107208

Ion	Ratio	Lower	Upper
142	100		
127	44.9	20.4	80.4

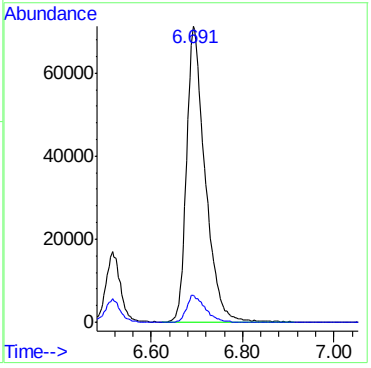


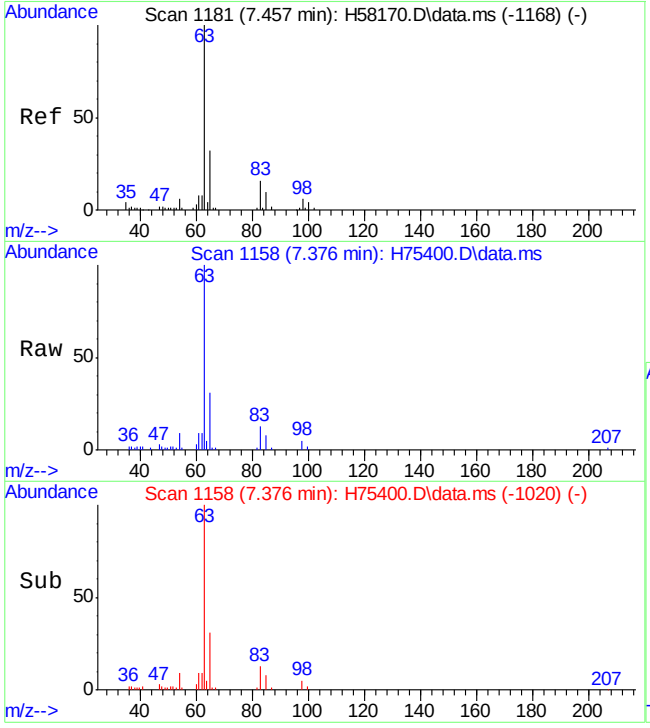


#24
carbon disulfide
Concen: 41.20 ug/L
RT: 6.691 min Scan# 964
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 76 Resp: 201212

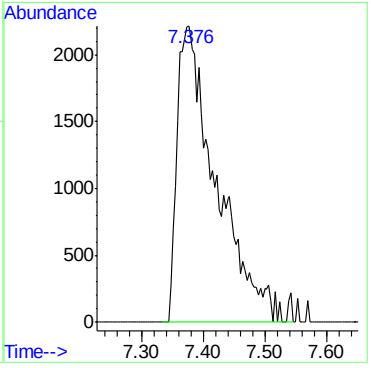
Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	40.1

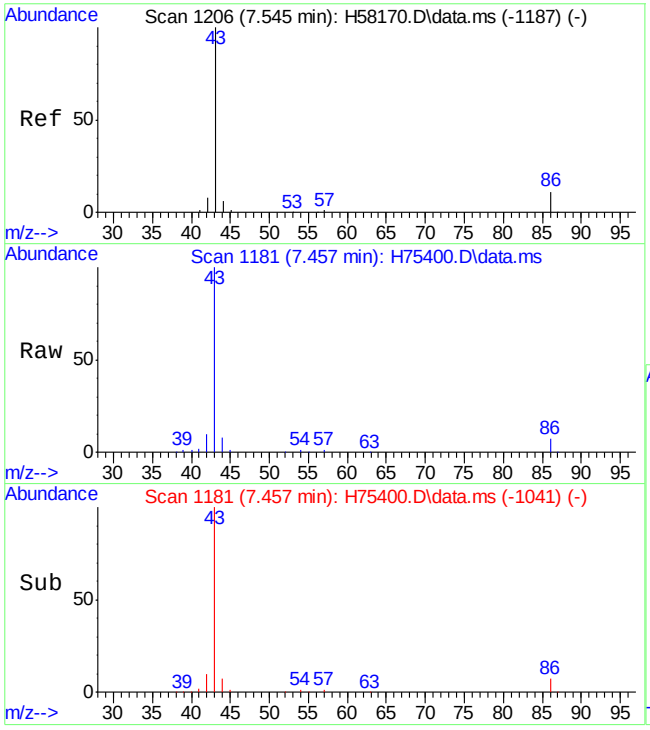




#25
propionitrile
Concen: 44.87 ug/L
RT: 7.376 min Scan# 1158
Delta R.T. -0.013 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 54 Resp: 9866

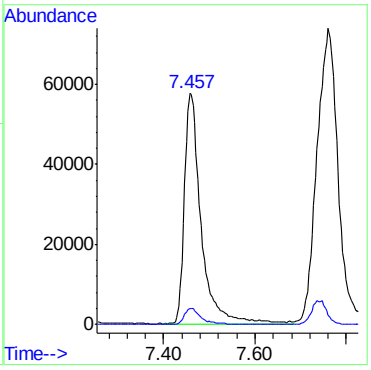


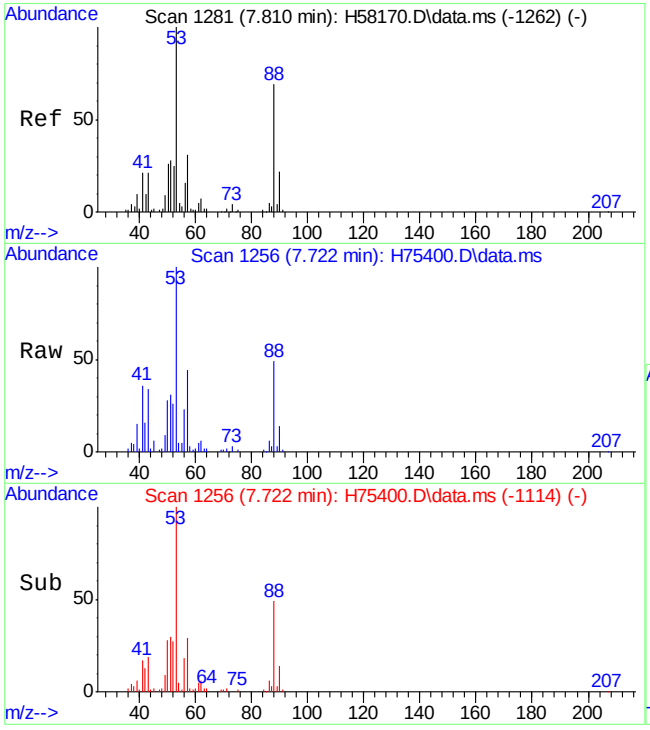


#26
vinyl acetate
Concen: 51.02 ug/L
RT: 7.457 min Scan# 1181
Delta R.T. -0.007 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 149507

Ion	Ratio	Lower	Upper
43	100		
86	7.0	0.0	39.7

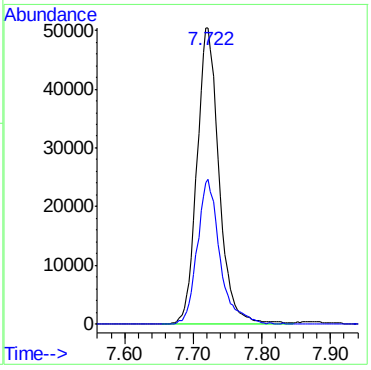


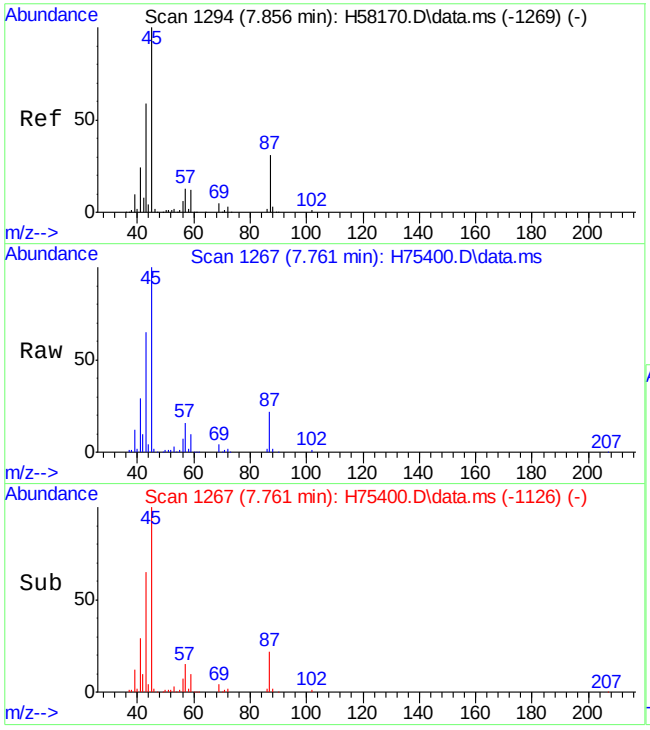


#27
chloroprene
Concen: 43.80 ug/L
RT: 7.722 min Scan# 1256
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 53 Resp: 112676

Ion	Ratio	Lower	Upper
53	100		
88	48.8	19.0	79.0

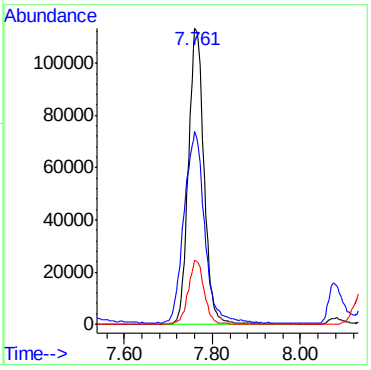


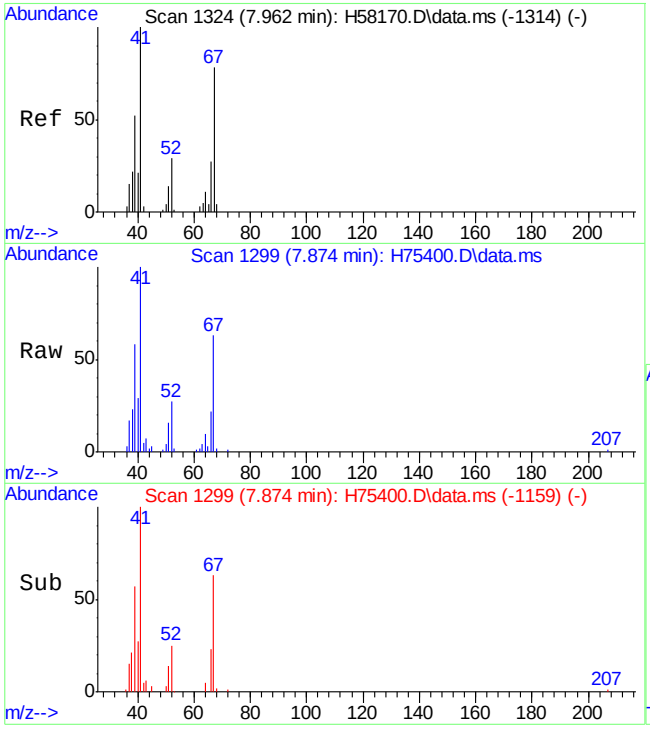


#28
di-isopropyl ether
Concen: 50.38 ug/L
RT: 7.761 min Scan# 1267
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 45 Resp: 276288

Ion	Ratio	Lower	Upper
45	100		
43	64.9	39.0	99.0
87	21.5	2.5	62.5

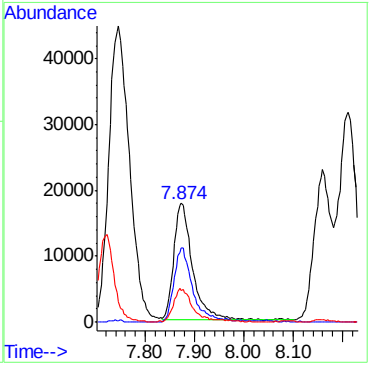


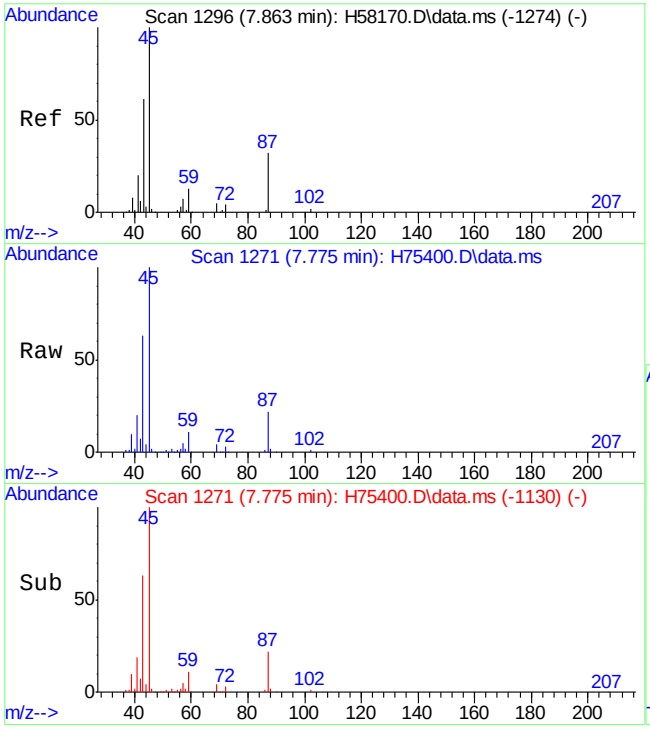


#29
methacrylonitrile
Concen: 43.74 ug/L
RT: 7.874 min Scan# 1299
Delta R.T. -0.007 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 41 Resp: 46103

Ion	Ratio	Lower	Upper
41	100		
67	63.9	28.1	88.1
52	27.1	0.0	59.4

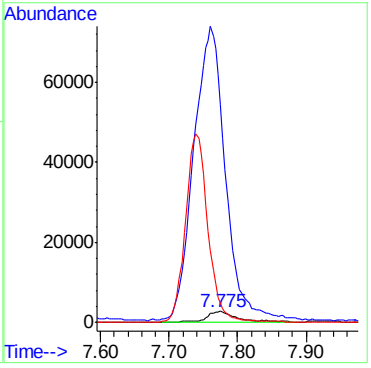


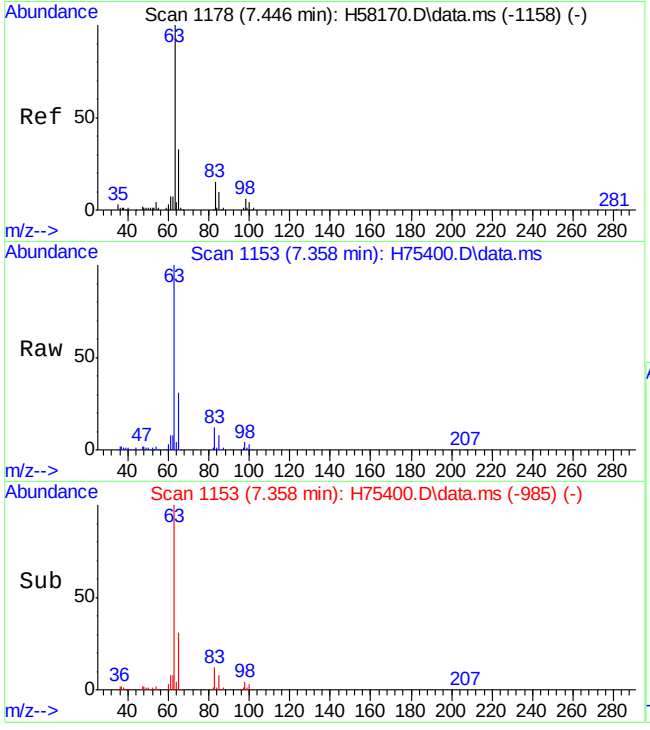


#30
2-butanone
Concen: 45.51 ug/L
RT: 7.775 min Scan# 1271
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 72 Resp: 8488

Ion	Ratio	Lower	Upper
72	100		
43	1906.4	1755.5	1815.5#
57	166.7	164.5	224.5

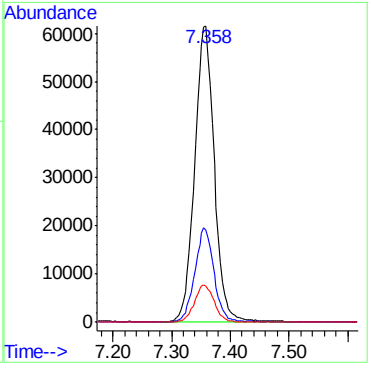


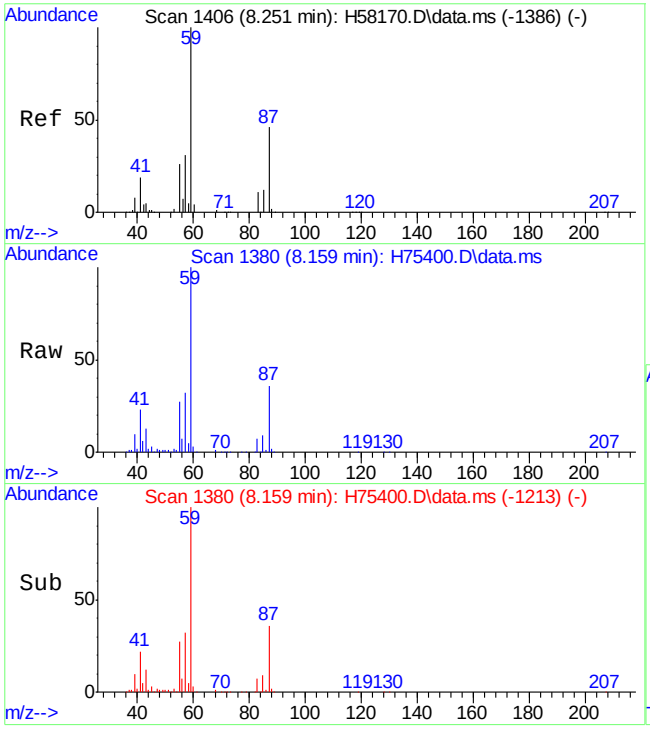


#31
1,1-dichloroethane
Concen: 46.63 ug/L
RT: 7.358 min Scan# 1153
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 63 Resp: 142008

Ion	Ratio	Lower	Upper
63	100		
65	31.1	2.1	62.1
83	12.2	0.0	47.3

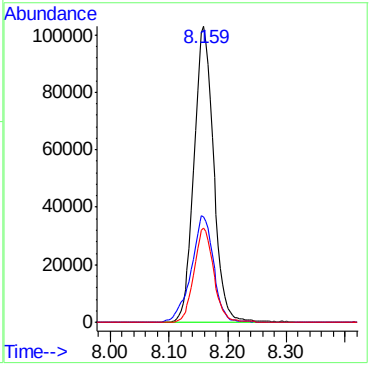


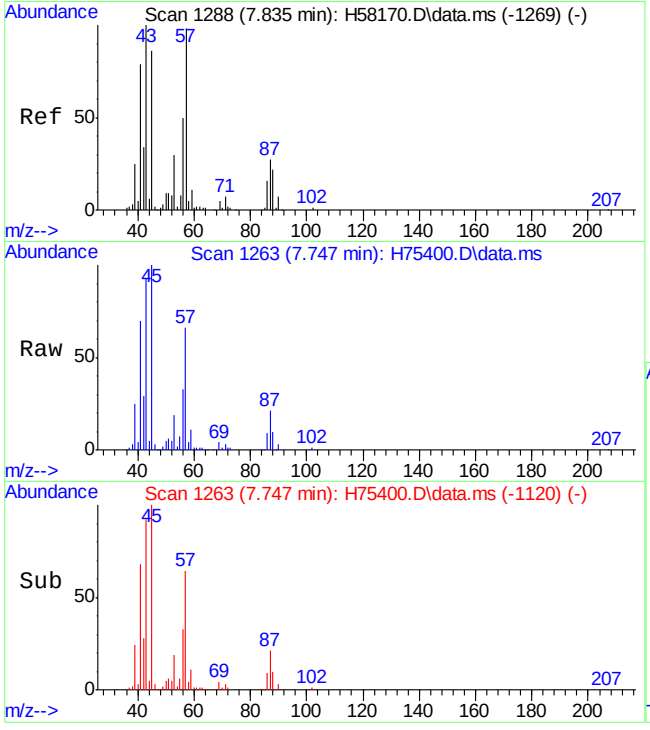


#32
tert-butyl ethyl ether
Concen: 46.65 ug/L
RT: 8.159 min Scan# 1380
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 59 Resp: 237917

Ion	Ratio	Lower	Upper
59	100		
87	35.6	13.5	73.5
57	32.0	0.0	58.1

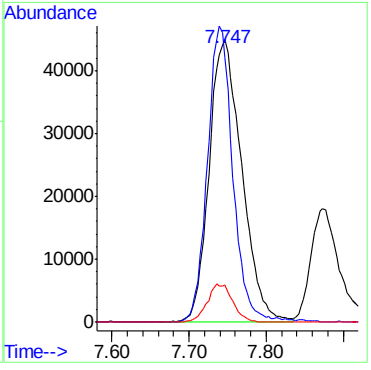


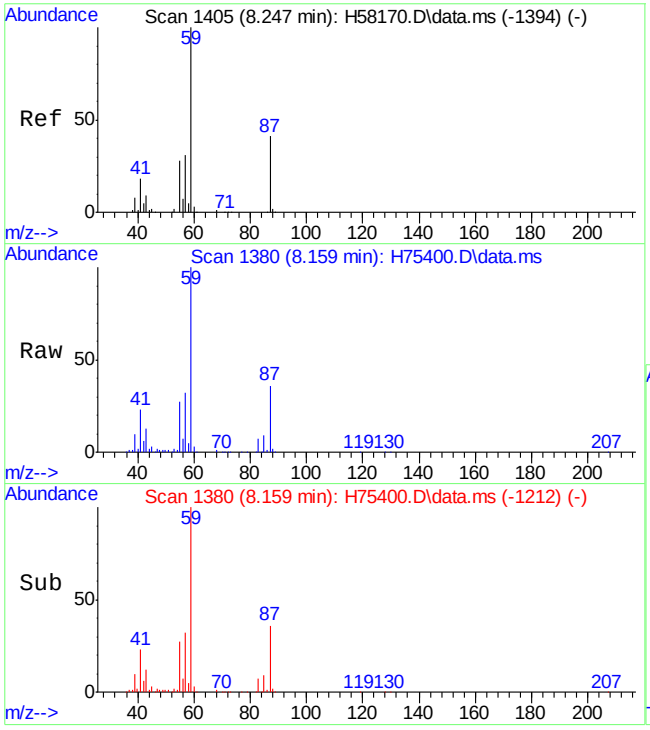


#33
Hexane
Concen: 47.16 ug/L
RT: 7.747 min Scan# 1263
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 41 Resp: 131971

Ion	Ratio	Lower	Upper
41	100		
57	81.9	60.5	90.7
86	10.5	10.4	15.6

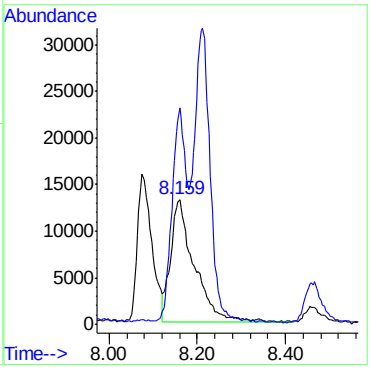


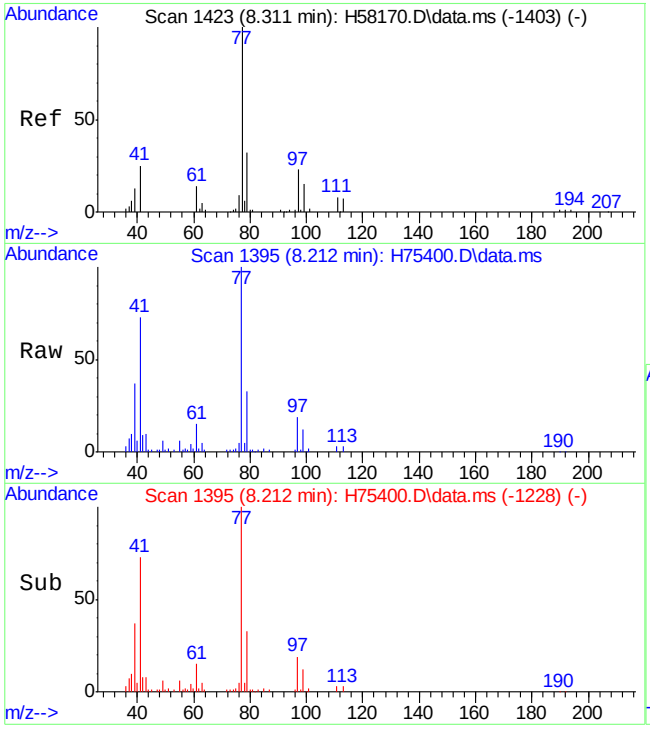


#34
isobutyl alcohol
Concen: 369.87 ug/L
RT: 8.159 min Scan# 1380
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 48793

Ion	Ratio	Lower	Upper
43	100		
41	174.5	115.6	175.6

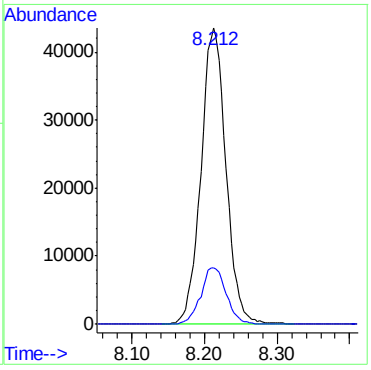


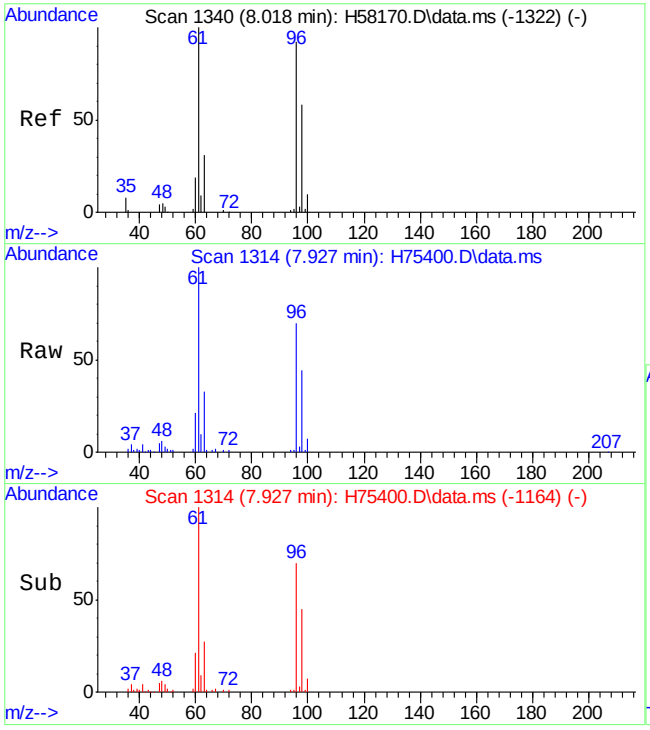


#35
2,2-dichloropropane
Concen: 46.28 ug/L
RT: 8.212 min Scan# 1395
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 77 Resp: 103729

Ion	Ratio	Lower	Upper
77	100		
97	18.8	0.0	51.6

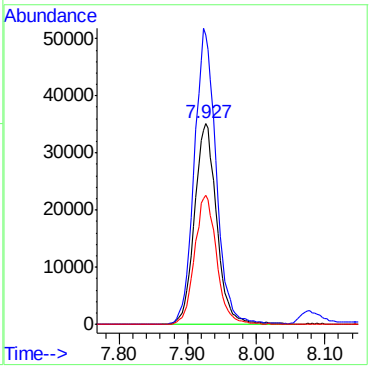


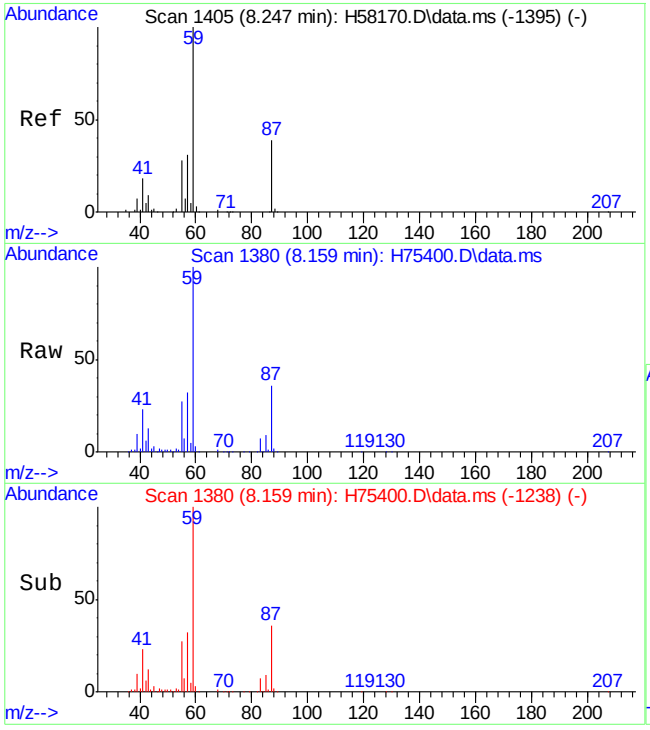


#36
cis-1,2-dichloroethene
Concen: 48.08 ug/L
RT: 7.927 min Scan# 1314
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 96 Resp: 78696

Ion	Ratio	Lower	Upper
96	100		
61	143.7	90.6	150.6
98	63.9	35.0	95.0

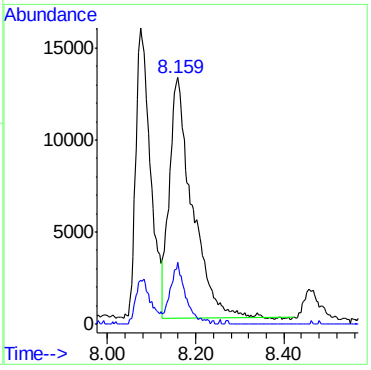


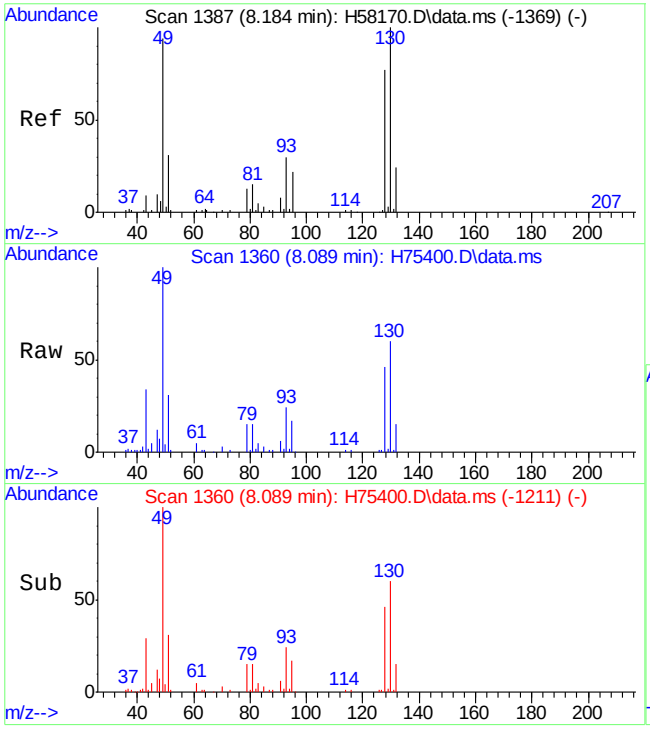


#37
ethyl acetate
Concen: 70.55 ug/L
RT: 8.159 min Scan# 1380
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 46938

Ion	Ratio	Lower	Upper
43	100		
45	25.7	0.0	51.5

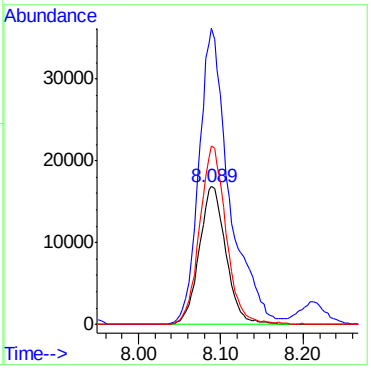


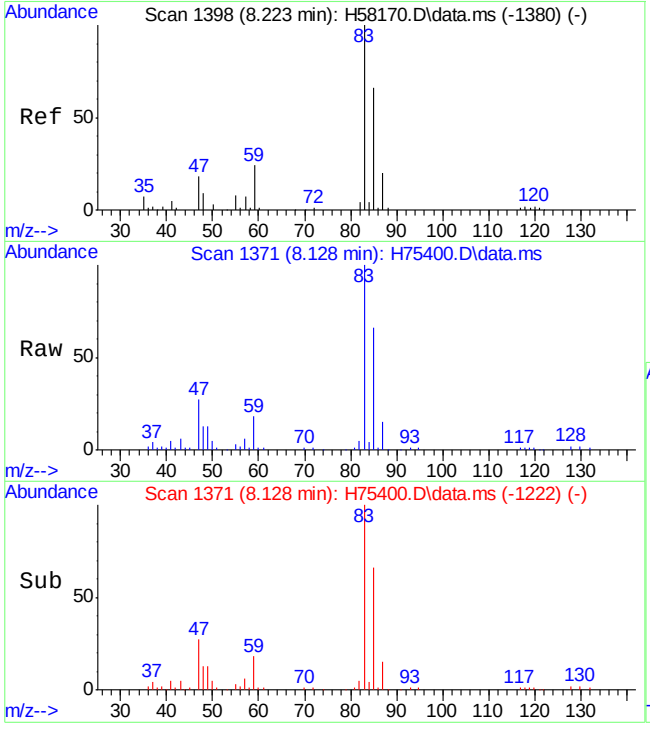


#38
bromochloromethane
Concen: 47.38 ug/L
RT: 8.089 min Scan# 1360
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:128 Resp: 37838

Ion	Ratio	Lower	Upper
128	100		
49	215.4	72.6	132.6#
130	129.9	102.2	162.2

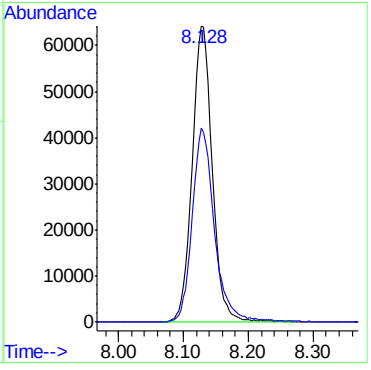


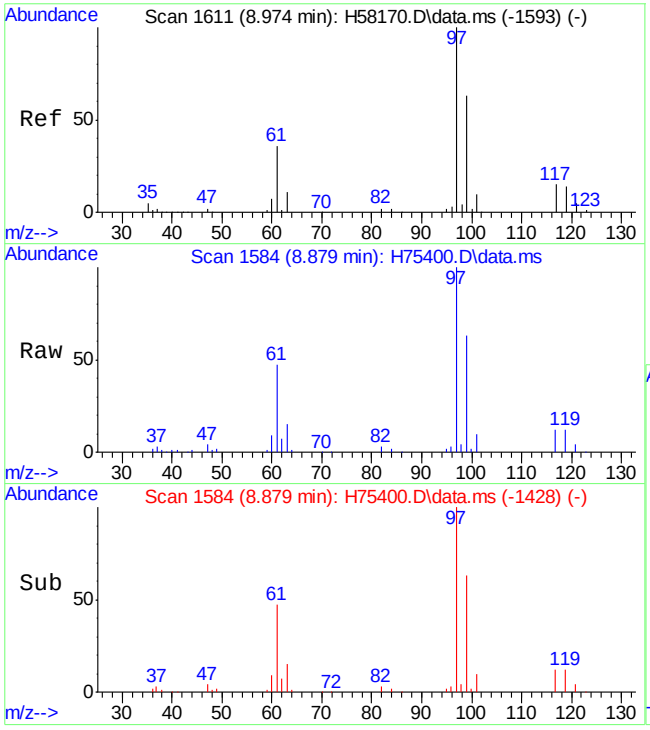


#39
chloroform
Concen: 48.01 ug/L
RT: 8.128 min Scan# 1371
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 83 Resp: 140510

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.0	95.0

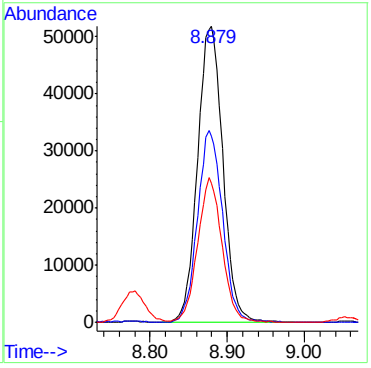


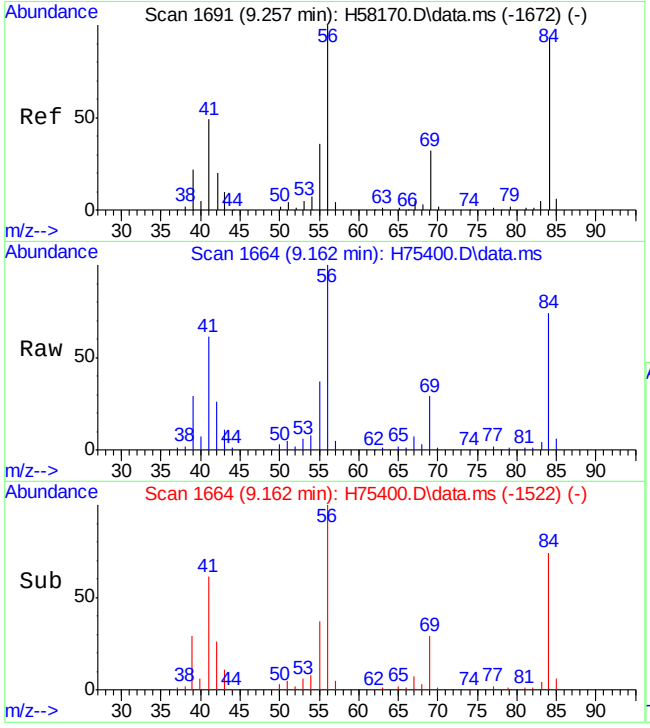


#41
1,1,1-trichloroethane
Concen: 50.66 ug/L
RT: 8.879 min Scan# 1584
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 97 Resp: 118009

Ion	Ratio	Lower	Upper
97	100		
99	62.7	32.9	92.9
61	46.9	5.4	65.4

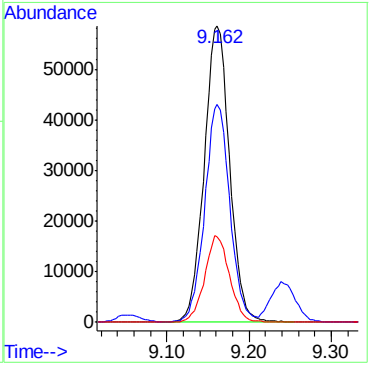




#43
cyclohexane
Concen: 42.62 ug/L
RT: 9.162 min Scan# 1664
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

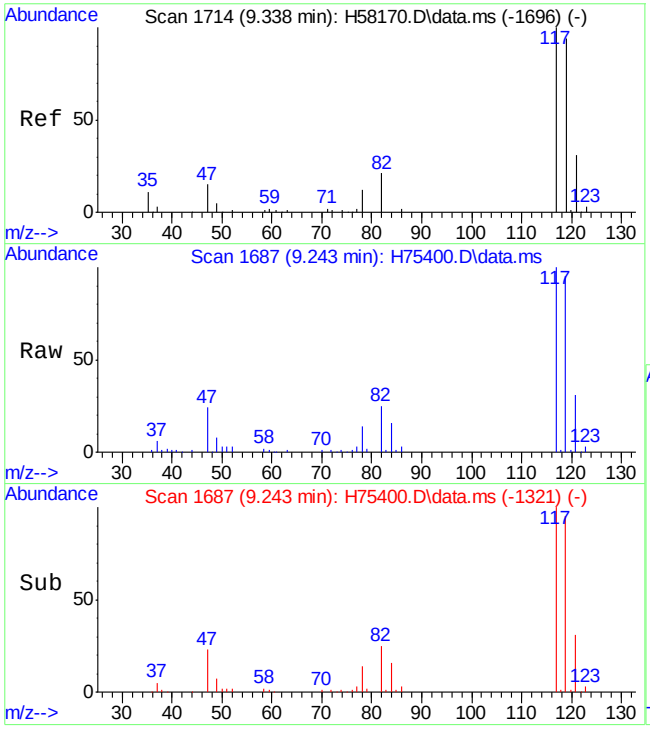
Tgt Ion: 56 Resp: 125722

Ion	Ratio	Lower	Upper
56	100		
84	73.6	81.1	121.1#
69	29.0	13.4	53.4



7.4.3

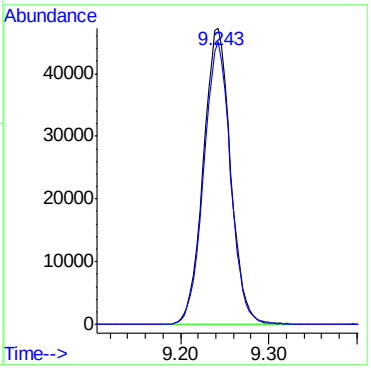
7

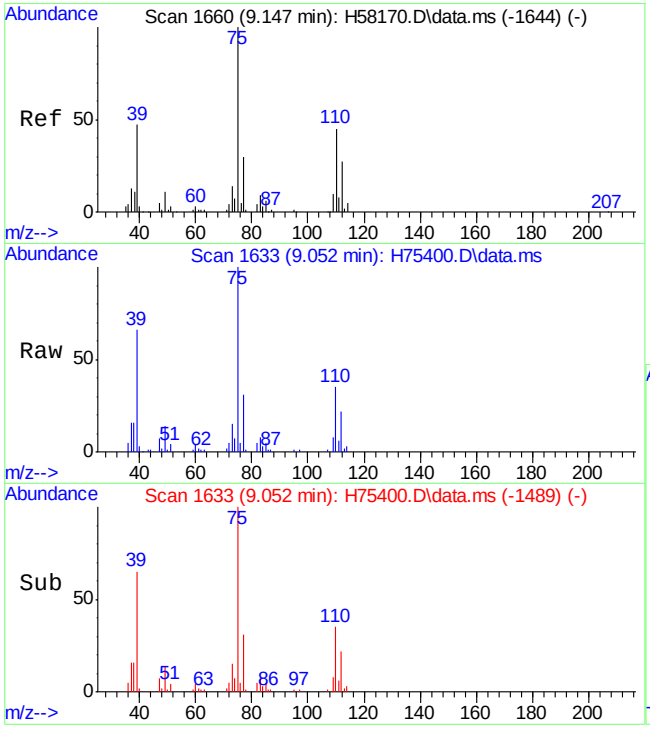


#44
carbon tetrachloride
Concen: 51.69 ug/L
RT: 9.243 min Scan# 1687
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:117 Resp: 100818

Ion	Ratio	Lower	Upper
117	100		
119	95.4	69.0	129.0

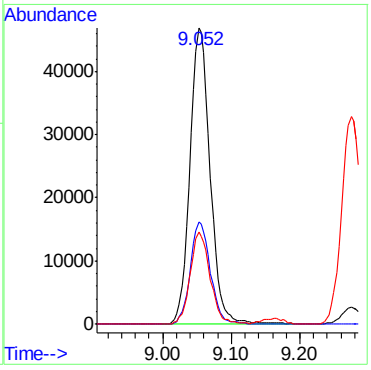




#45
1,1-dichloropropene
Concen: 44.44 ug/L
RT: 9.052 min Scan# 1633
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

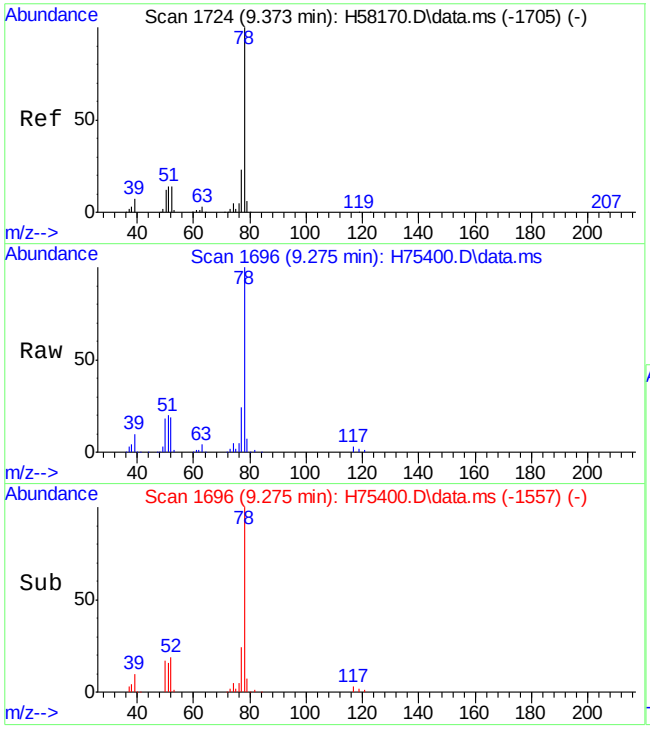
Tgt Ion: 75 Resp: 95593

Ion	Ratio	Lower	Upper
75	100		
110	34.7	12.6	72.6
77	30.9	1.8	61.8



7.4.3

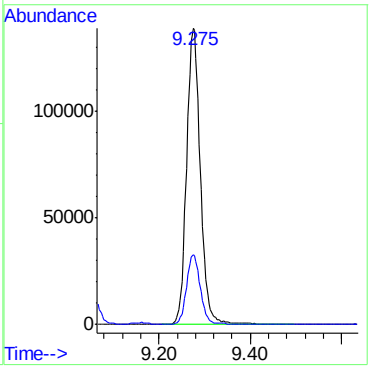
7

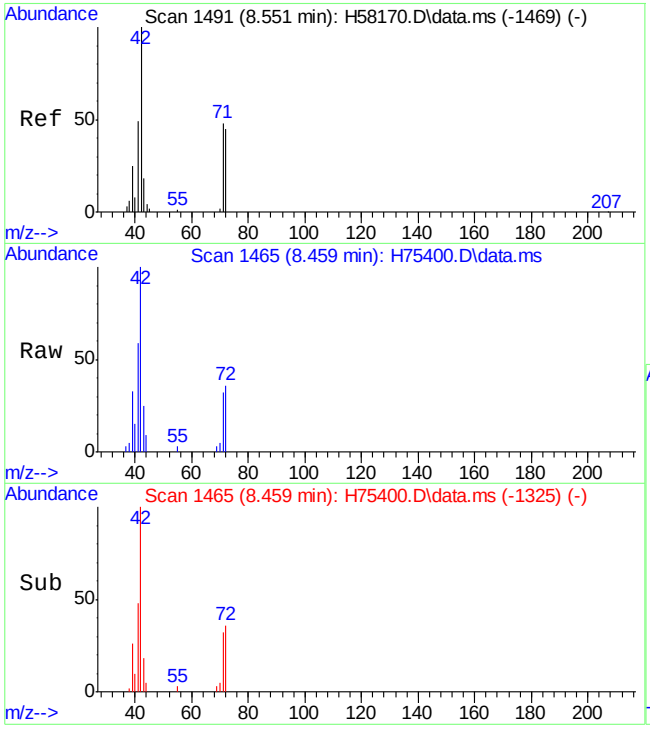


#46
benzene
Concen: 45.80 ug/L
RT: 9.275 min Scan# 1696
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 78 Resp: 289878

Ion	Ratio	Lower	Upper
78	100		
77	23.6	0.0	53.5

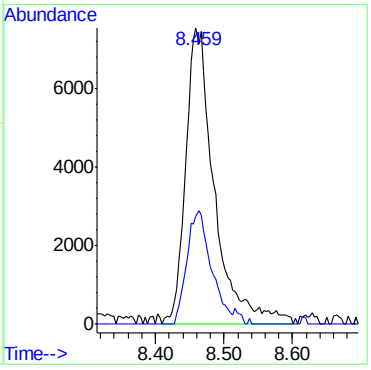


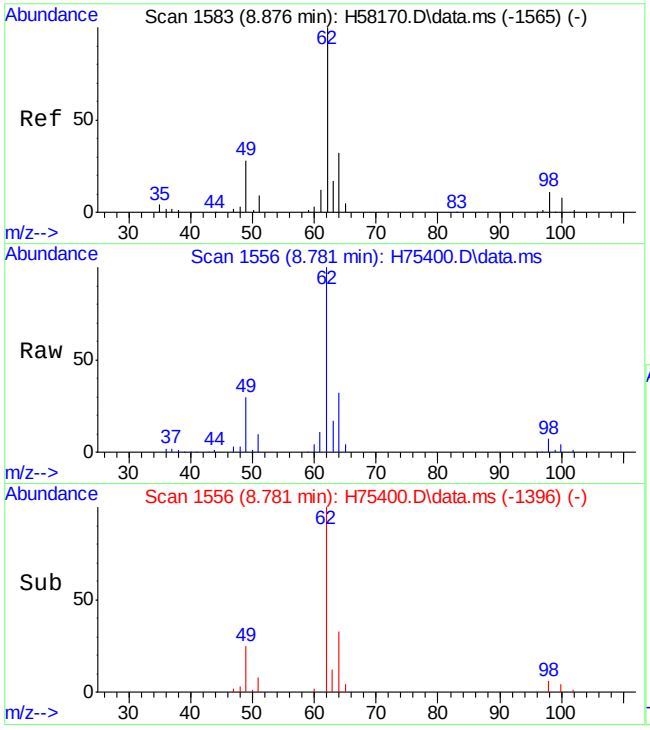


#47
tetrahydrofuran
Concen: 41.64 ug/L
RT: 8.459 min Scan# 1465
Delta R.T. -0.007 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 42 Resp: 21949

Ion	Ratio	Lower	Upper
42	100		
72	36.3	12.6	72.6

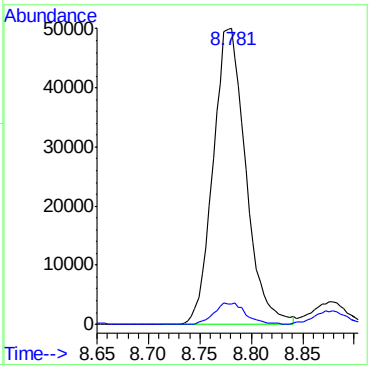


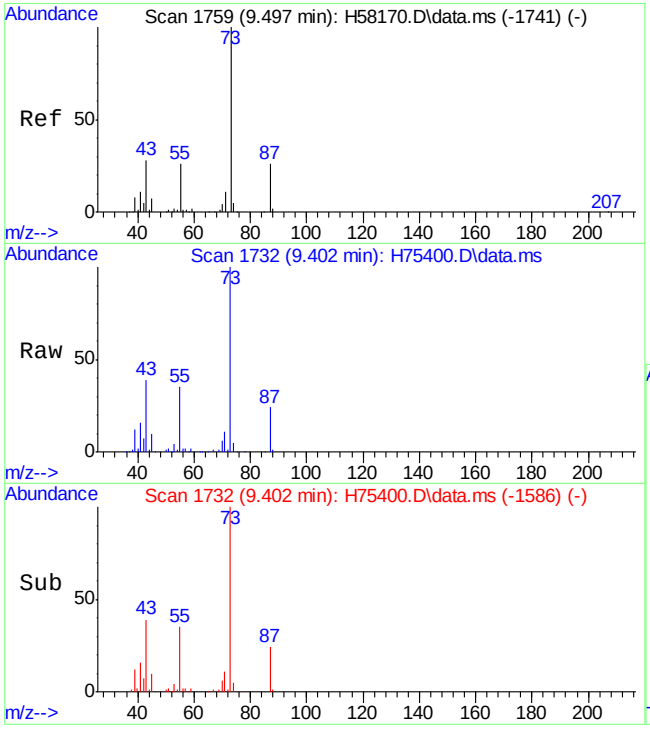


#48
1,2-dichloroethane
Concen: 46.69 ug/L
RT: 8.781 min Scan# 1556
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 62 Resp: 110244

Ion	Ratio	Lower	Upper
62	100		
98	6.9	0.0	37.4

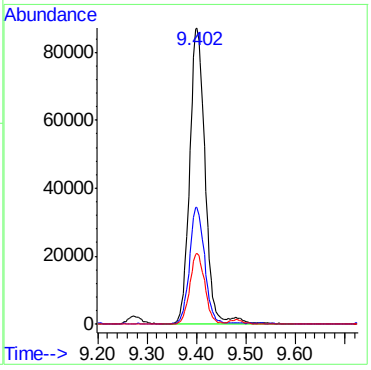




#49
tert-amyl methyl ether
Concen: 44.06 ug/L
RT: 9.402 min Scan# 1732
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

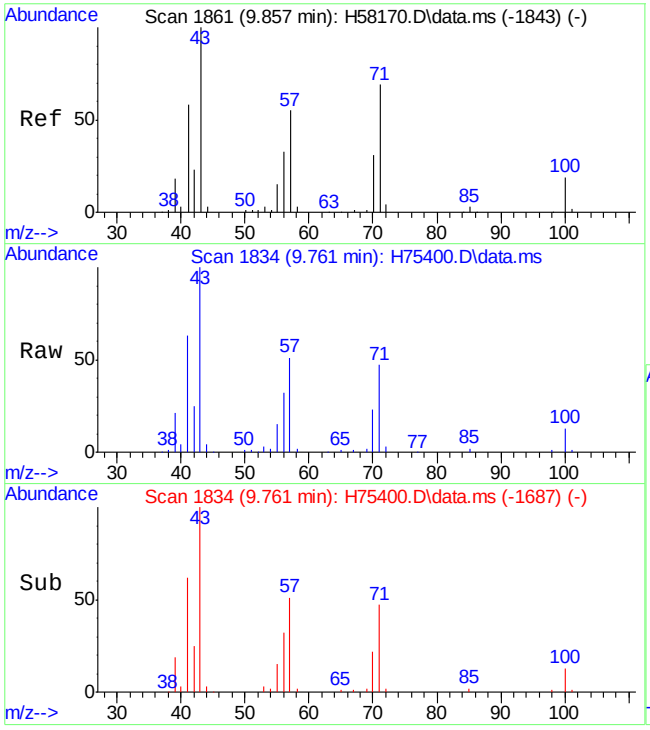
Tgt Ion: 73 Resp: 189536

Ion	Ratio	Lower	Upper
73	100		
43	39.5	3.8	63.8
87	24.1	0.0	59.9



7.4.3

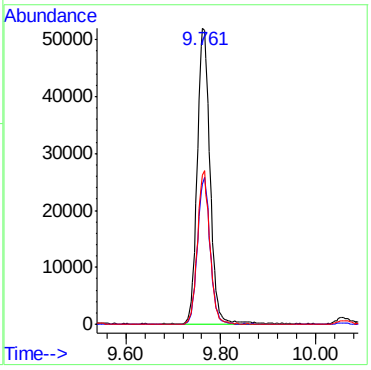
7

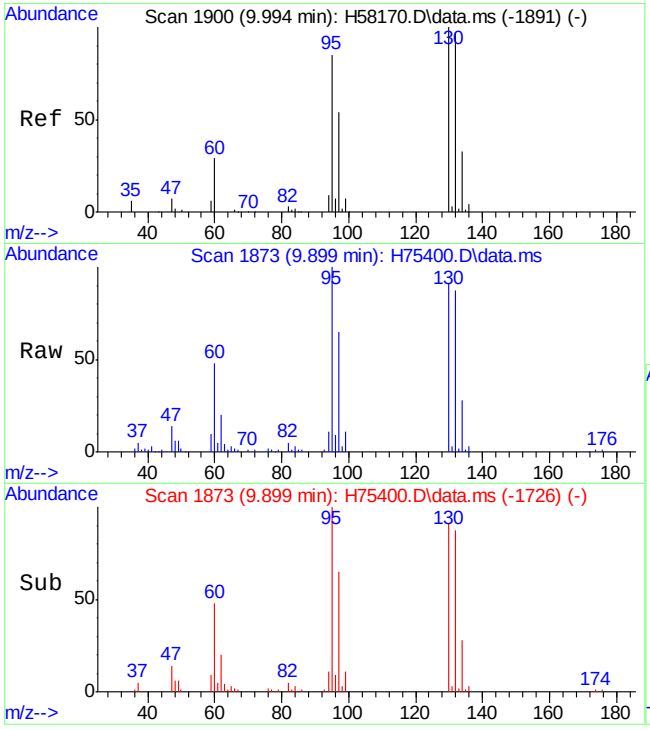


#50
heptane
Concen: 43.71 ug/L
RT: 9.761 min Scan# 1834
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 97369

Ion	Ratio	Lower	Upper
43	100		
71	47.4	31.4	91.4
57	50.6	21.5	81.5

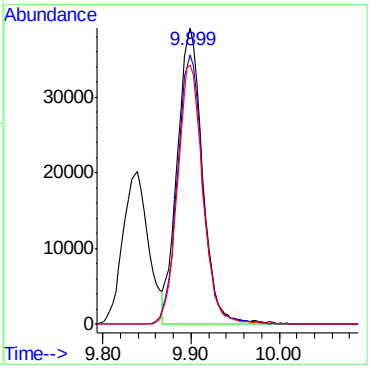




#51
trichloroethene
Concen: 46.74 ug/L
RT: 9.899 min Scan# 1873
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

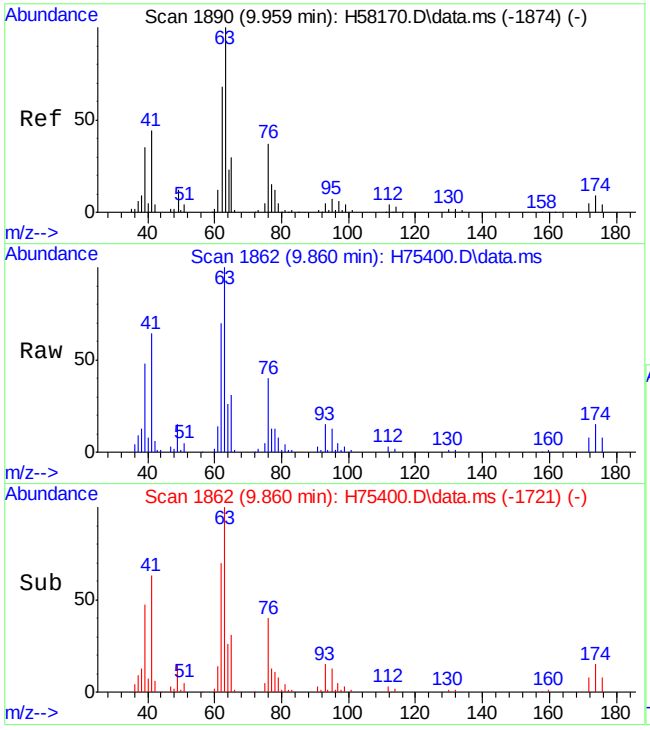
Tgt Ion: 95 Resp: 77518

Ion	Ratio	Lower	Upper
95	100		
130	90.9	83.0	143.0
132	87.4	82.2	142.2



7.4.3

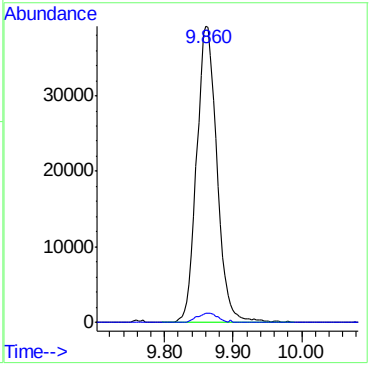
7

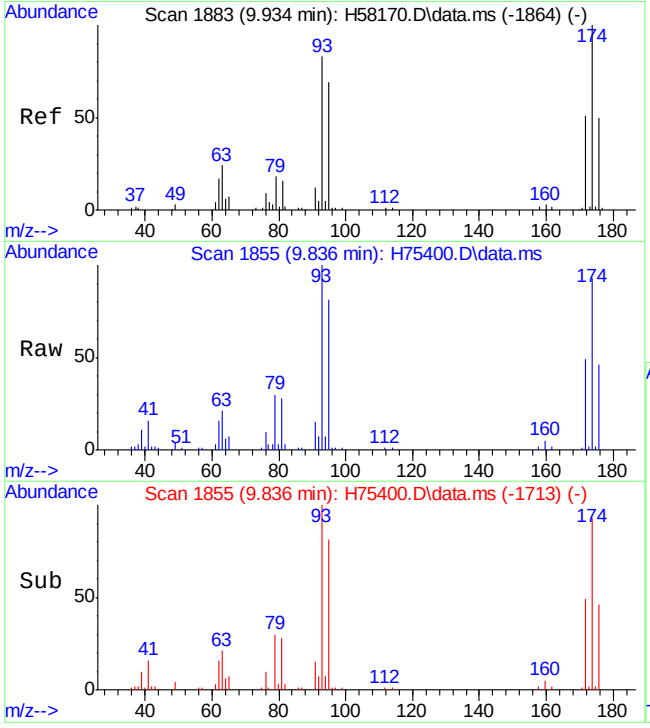


#52
1,2-dichloropropane
Concen: 45.84 ug/L
RT: 9.860 min Scan# 1862
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 63 Resp: 80586

Ion	Ratio	Lower	Upper
63	100		
112	3.1	0.0	34.6

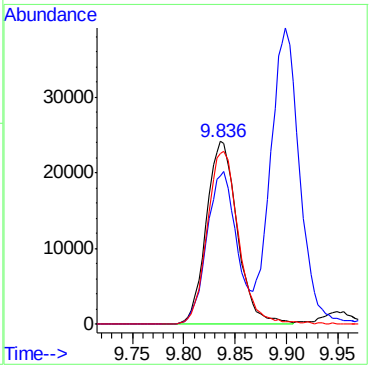




#53
dibromomethane
Concen: 47.97 ug/L
RT: 9.836 min Scan# 1855
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 93 Resp: 50560

Ion	Ratio	Lower	Upper
93	100		
95	80.9	52.2	112.2
174	93.2	76.7	136.7



7.4.3

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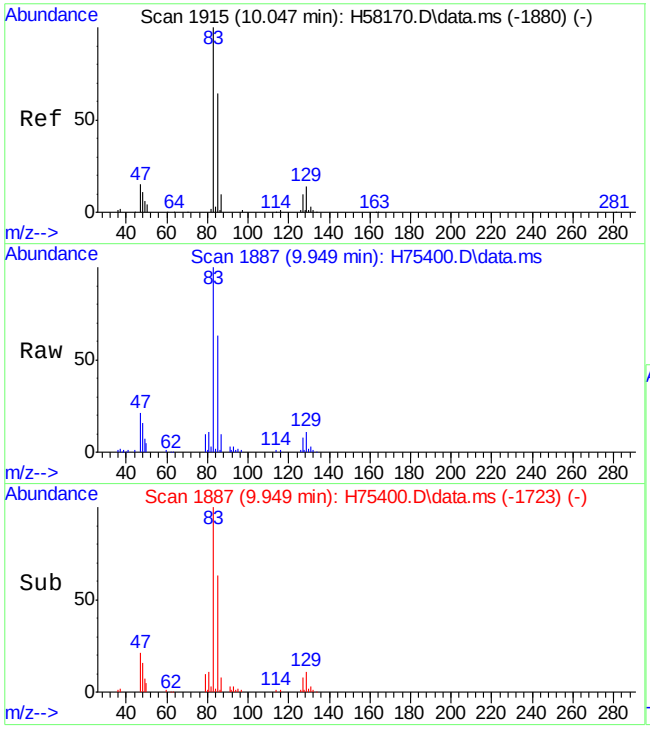
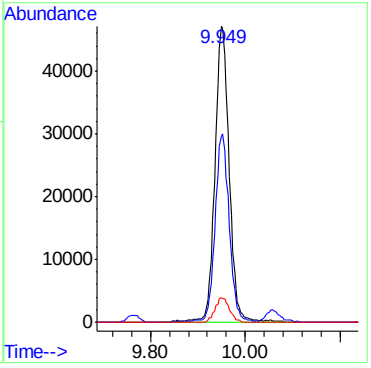
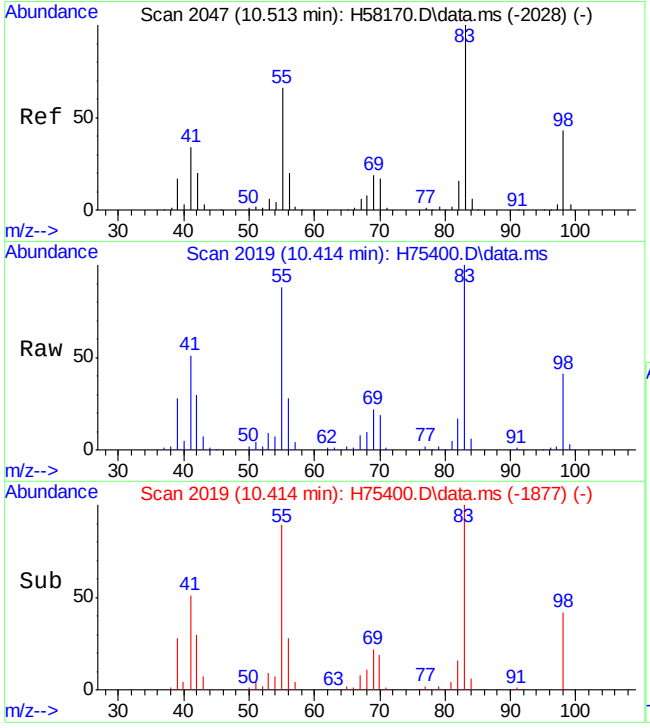


#54
bromodichloromethane
Concen: 46.69 ug/L
RT: 9.949 min Scan# 1887
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 83 Resp: 98515

Ion	Ratio	Lower	Upper
83	100		
85	62.8	36.5	96.5
127	8.4	0.0	42.2

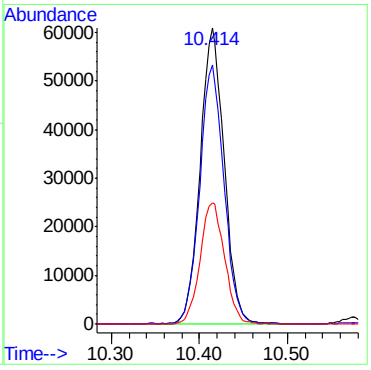




#55
methylcyclohexane
Concen: 42.69 ug/L
RT: 10.414 min Scan# 2019
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 83 Resp: 114990

Ion	Ratio	Lower	Upper
83	100		
55	87.7	51.1	91.1
98	41.0	25.6	65.6



7.4.3

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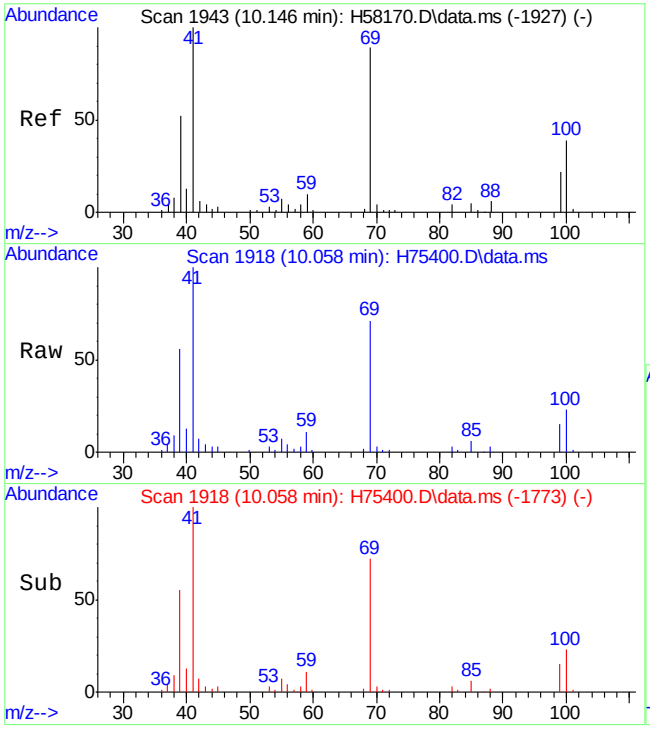
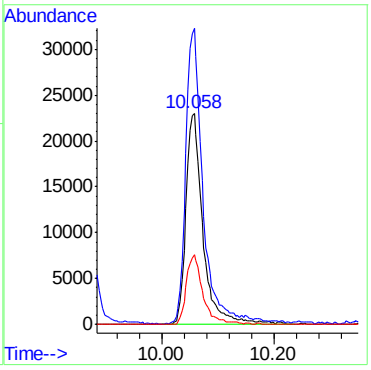
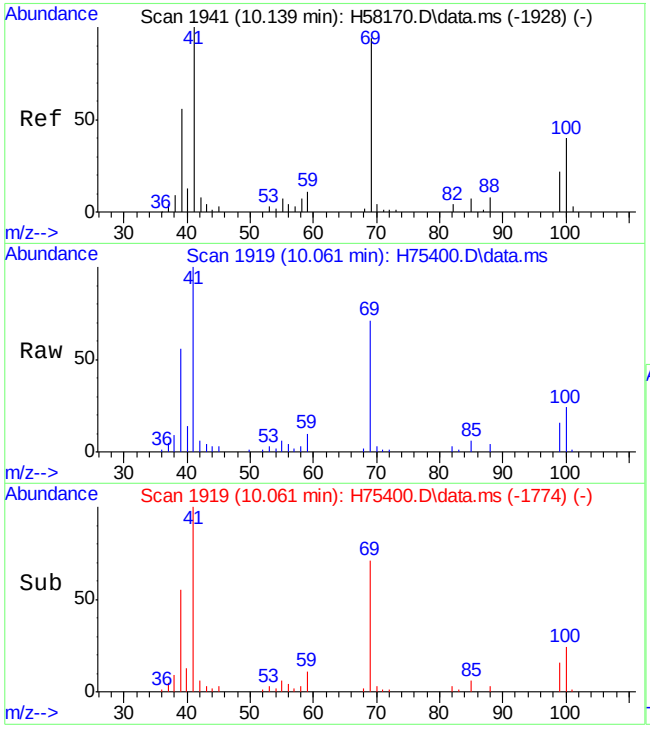


#57
methyl methacrylate
Concen: 43.81 ug/L
RT: 10.058 min Scan# 1918
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 69 Resp: 48207

Ion	Ratio	Lower	Upper
69	100		
41	140.3	108.1	168.1
100	32.8	21.1	81.1

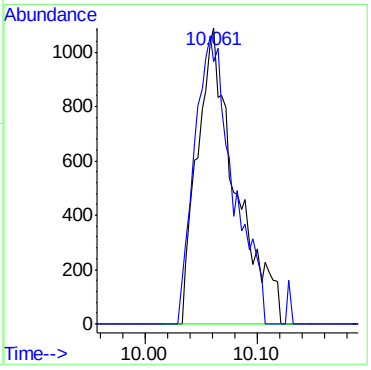


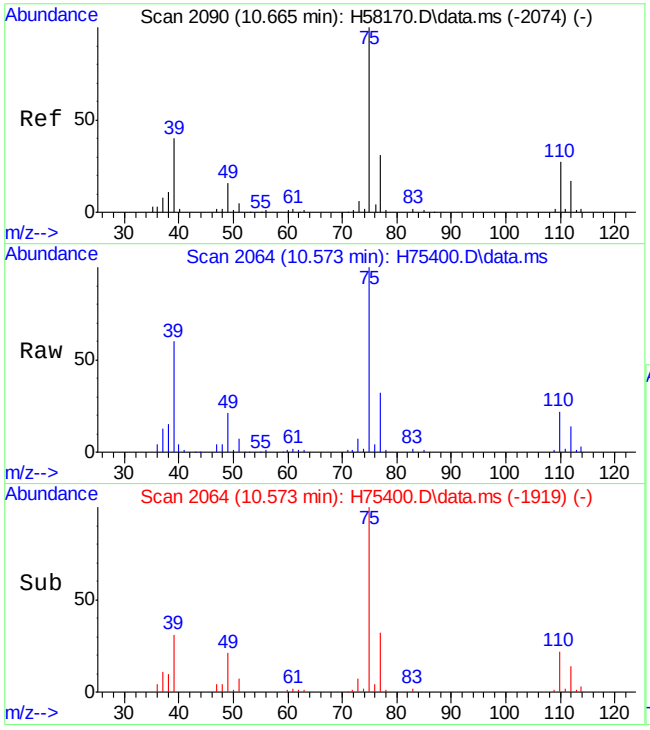


#58
1,4-dioxane
Concen: 179.60 ug/L
RT: 10.061 min Scan# 1919
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 88 Resp: 2575

Ion	Ratio	Lower	Upper
88	100		
58	88.7	60.1	120.1

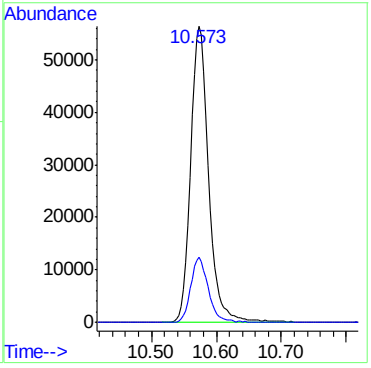


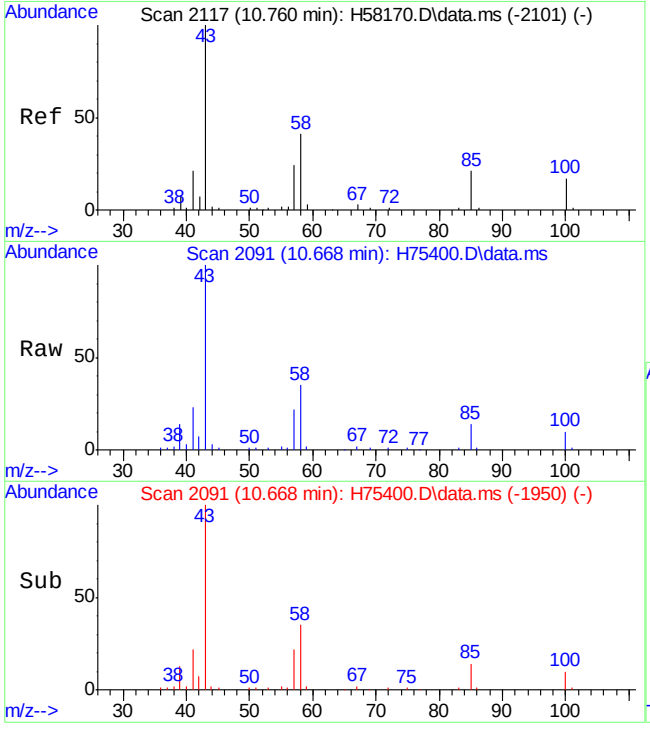


#59
cis-1,3-dichloropropene
Concen: 46.81 ug/L
RT: 10.573 min Scan# 2064
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 75 Resp: 110261

Ion	Ratio	Lower	Upper
75	100		
110	22.2	0.0	57.6

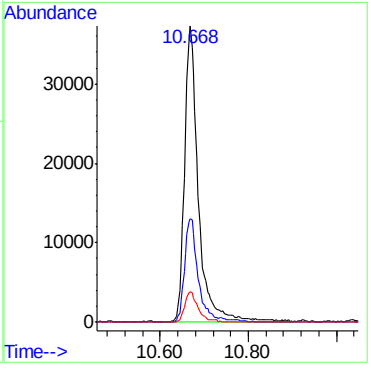


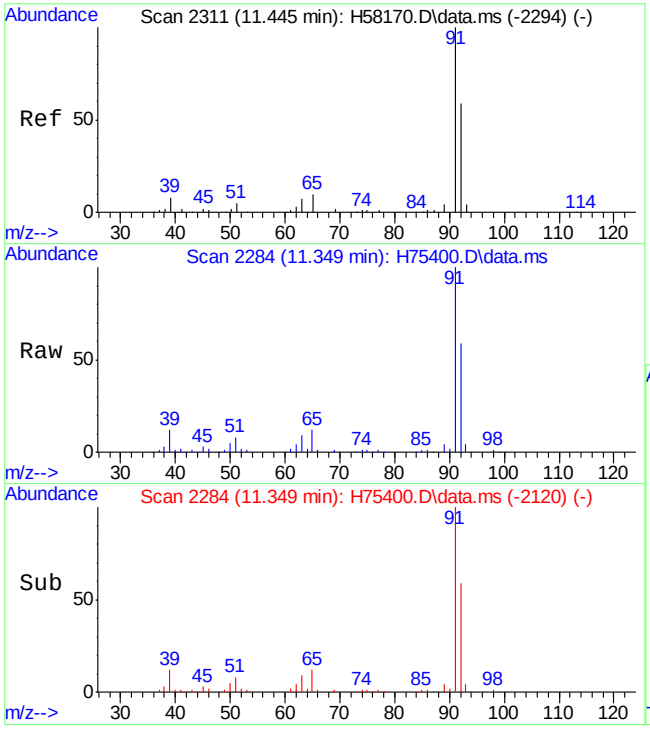


#61
4-methyl-2-pentanone
Concen: 45.52 ug/L
RT: 10.668 min Scan# 2091
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 81233

Ion	Ratio	Lower	Upper
43	100		
58	34.8	8.9	68.9
100	9.7	0.0	46.9

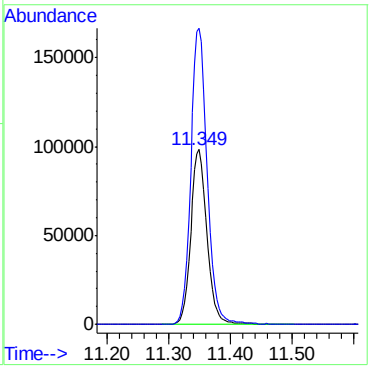


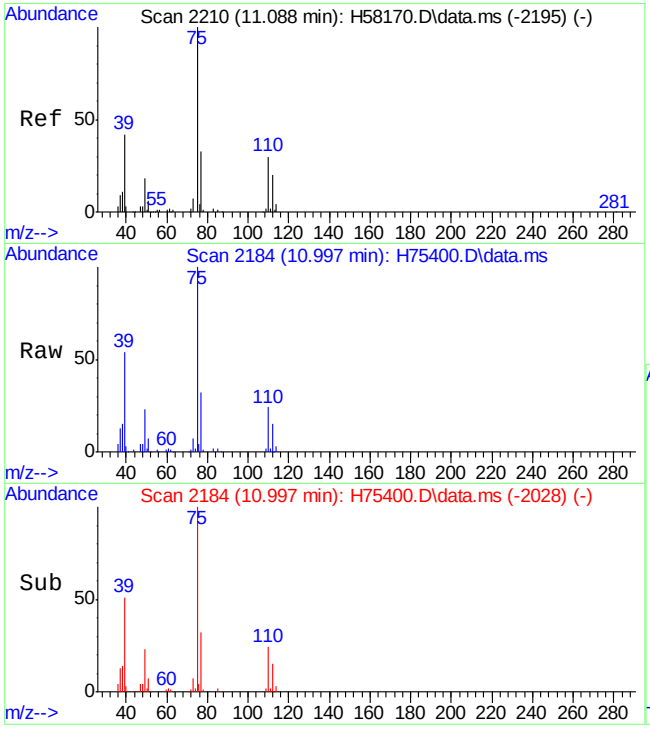


#62
toluene
Concen: 46.29 ug/L
RT: 11.349 min Scan# 2284
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 92 Resp: 178962

Ion	Ratio	Lower	Upper
92	100		
91	169.5	140.4	200.4

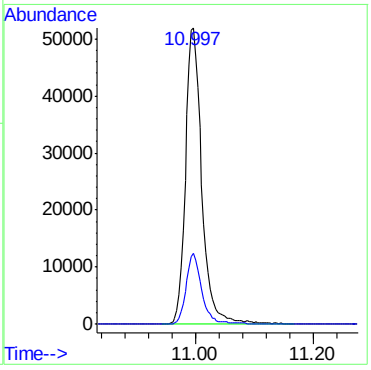


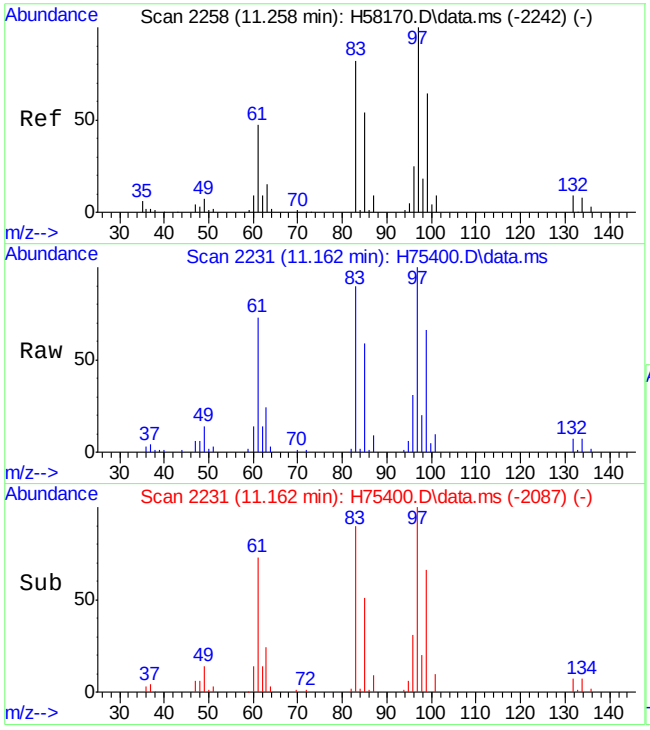


#63
trans-1,3-dichloropropene
Concen: 41.72 ug/L
RT: 10.997 min Scan# 2184
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 75 Resp: 99027

Ion	Ratio	Lower	Upper
75	100		
110	23.8	0.0	54.2

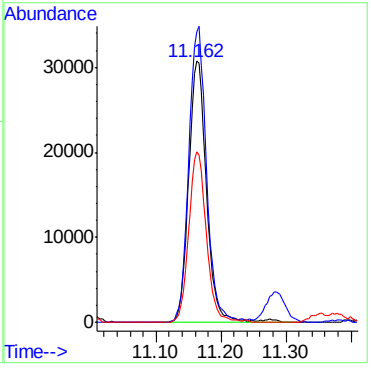


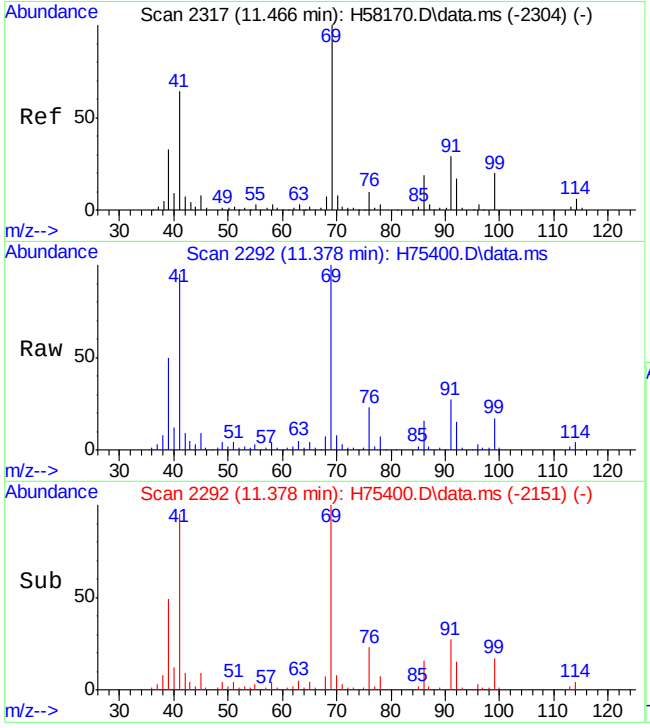


#64
1,1,2-trichloroethane
Concen: 46.45 ug/L
RT: 11.162 min Scan# 2231
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 83 Resp: 59756

Ion	Ratio	Lower	Upper
83	100		
97	111.1	98.5	158.5
85	65.5	34.7	94.7

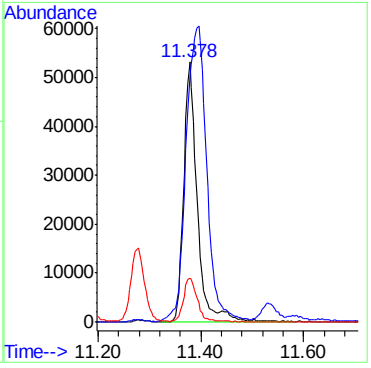




#65
ethyl methacrylate
Concen: 46.22 ug/L
RT: 11.378 min Scan# 2292
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 69 Resp: 97362

Ion	Ratio	Lower	Upper
69	100		
41	94.2	68.2	128.2
99	16.9	0.0	55.4



7.4.3

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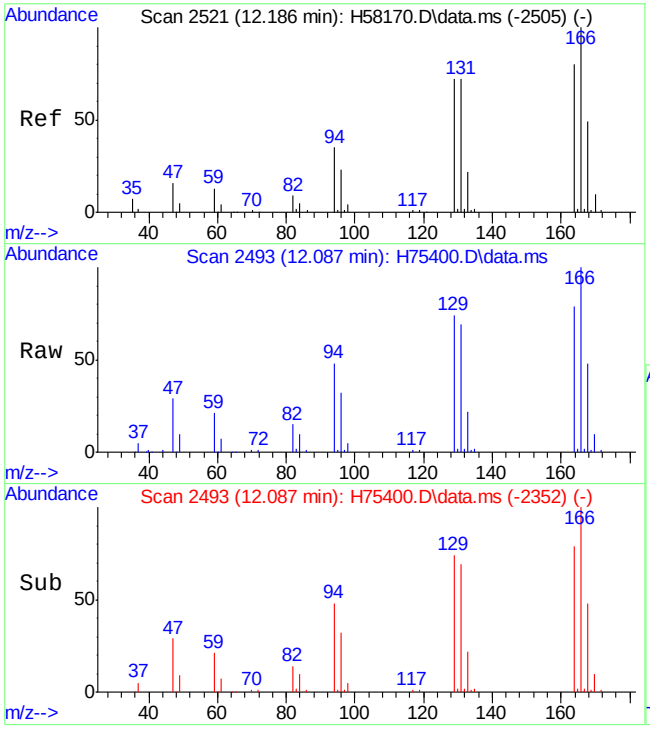
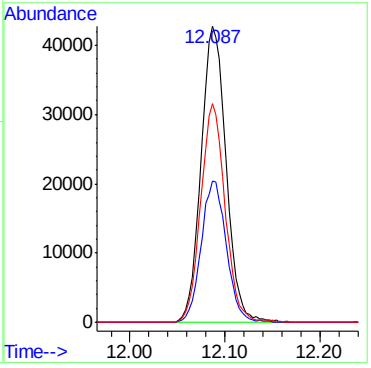
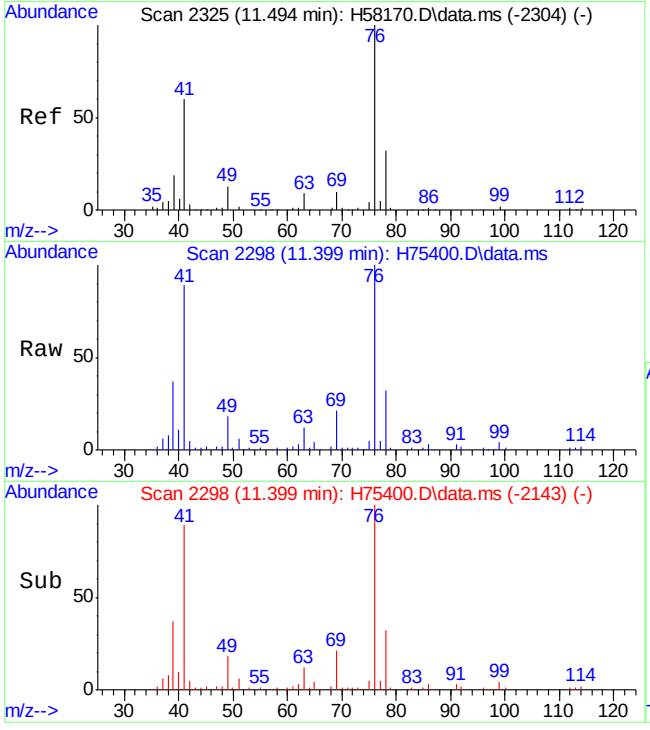


#67
tetrachloroethene
Concen: 41.68 ug/L
RT: 12.087 min Scan# 2493
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:166 Resp: 77904

Ion	Ratio	Lower	Upper
166	100		
168	49.2	17.7	77.7
129	73.8	48.9	108.9

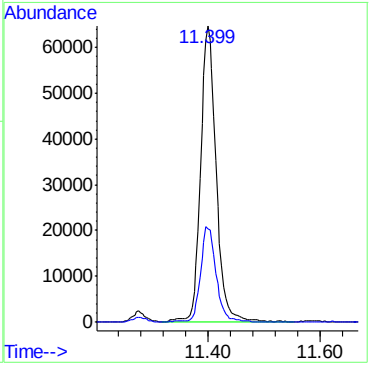


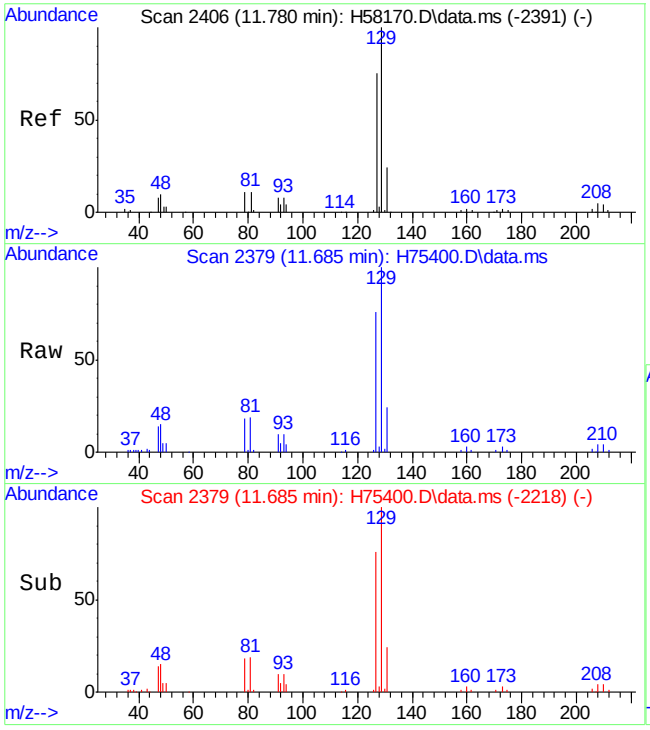


#68
1,3-dichloropropane
Concen: 44.65 ug/L
RT: 11.399 min Scan# 2298
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 76 Resp: 125330

Ion	Ratio	Lower	Upper
76	100		
78	31.5	3.4	63.4

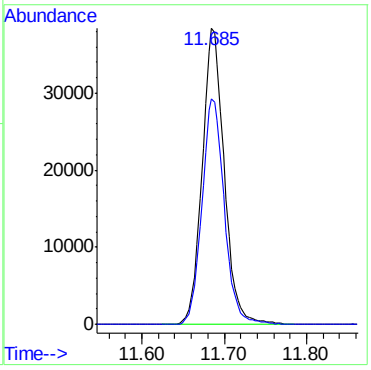


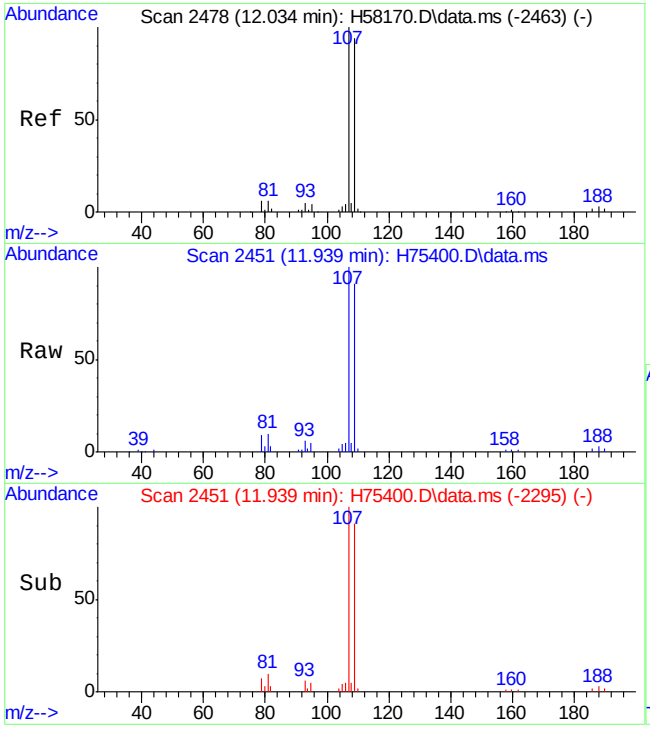


#69
dibromochloromethane
Concen: 38.82 ug/L
RT: 11.685 min Scan# 2379
Delta R.T. -0.002 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:129 Resp: 71671

Ion	Ratio	Lower	Upper
129	100		
127	76.0	48.1	108.1

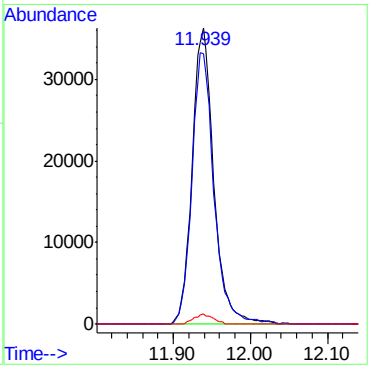


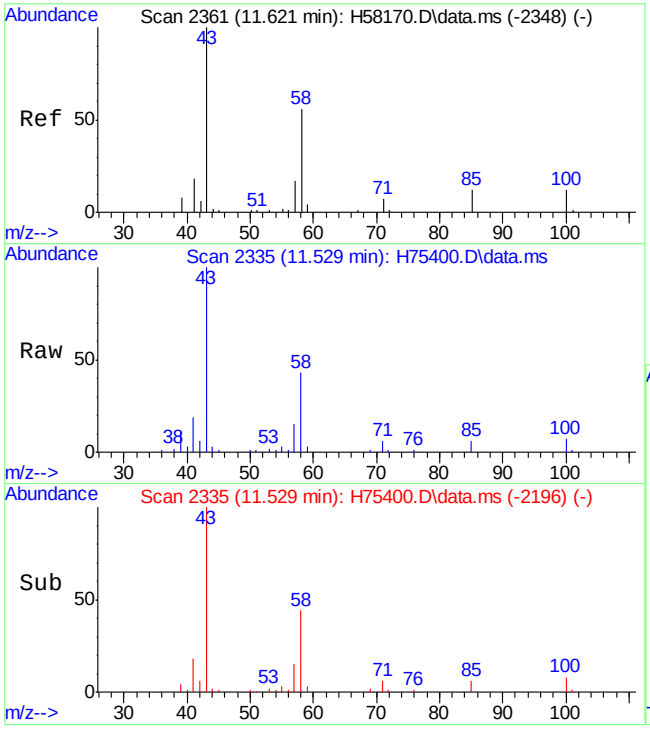


#70
1,2-dibromoethane
Concen: 42.69 ug/L
RT: 11.939 min Scan# 2451
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:107 Resp: 70568

Ion	Ratio	Lower	Upper
107	100		
109	91.2	58.7	118.7
188	3.3	0.0	33.1

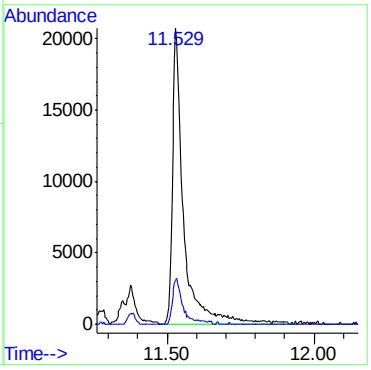


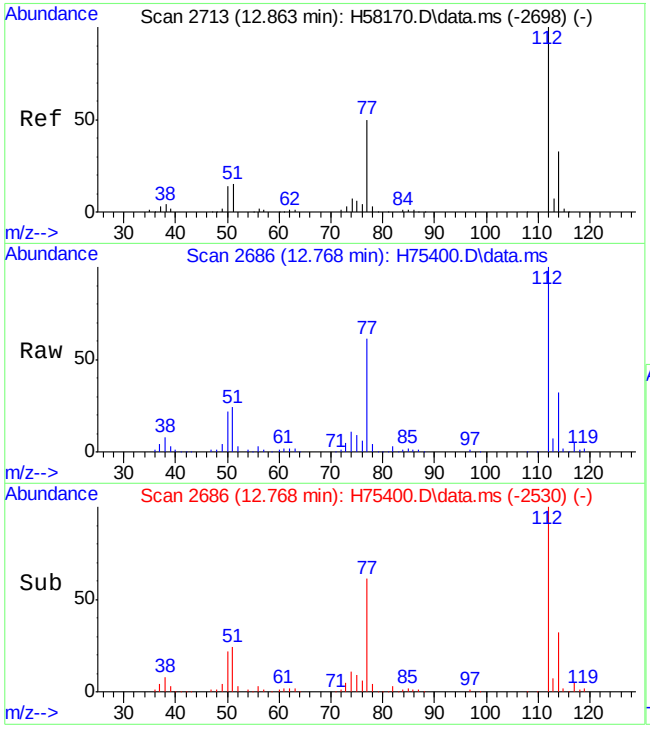


#71
2-hexanone
Concen: 40.61 ug/L
RT: 11.529 min Scan# 2335
Delta R.T. -0.010 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 43 Resp: 55094

Ion	Ratio	Lower	Upper
43	100		
57	14.6	0.0	48.4

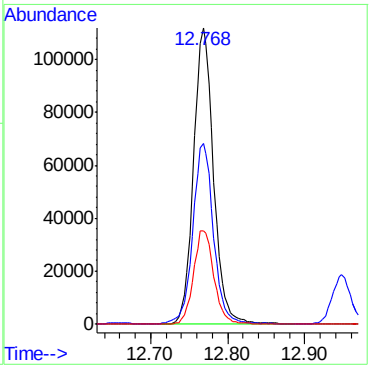


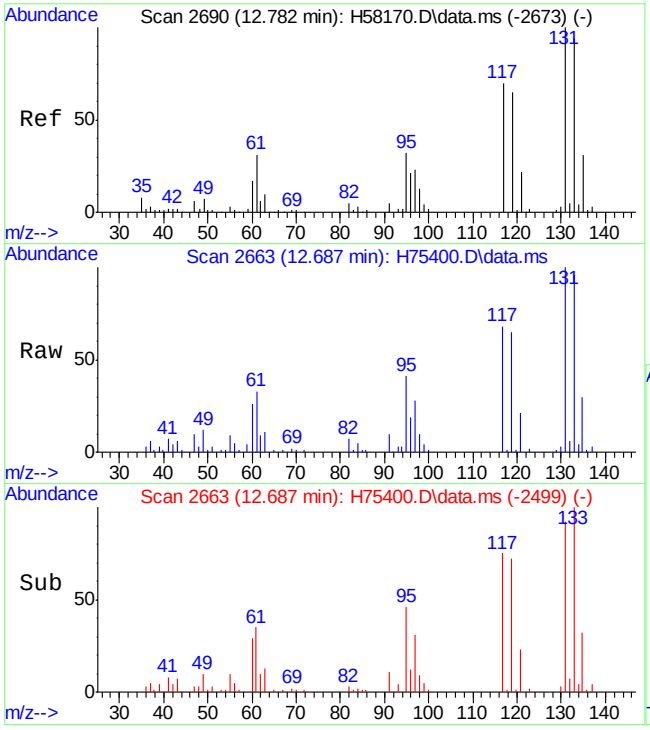


#72
chlorobenzene
Concen: 40.43 ug/L
RT: 12.768 min Scan# 2686
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:112 Resp: 201129

Ion	Ratio	Lower	Upper
112	100		
77	60.9	19.7	79.7
114	31.6	2.4	62.4

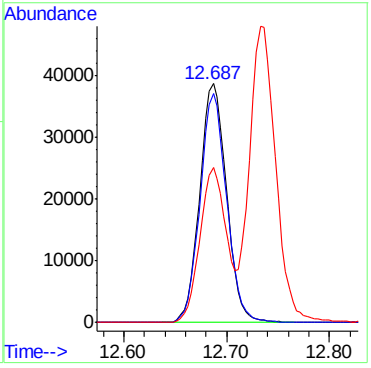


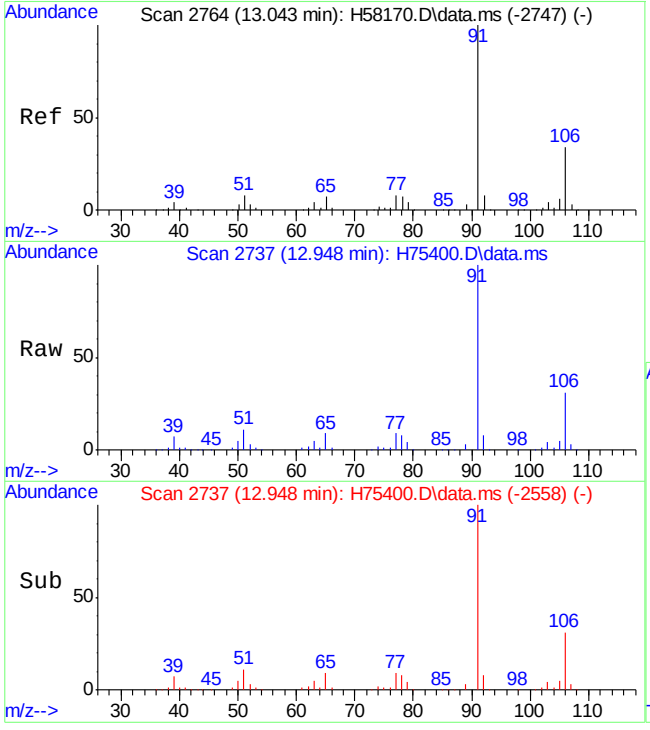


#73
1,1,1,2-tetrachloroethane
Concen: 45.14 ug/L
RT: 12.687 min Scan# 2663
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:131 Resp: 69475

Ion	Ratio	Lower	Upper
131	100		
133	95.7	64.9	124.9
119	64.9	26.4	86.4

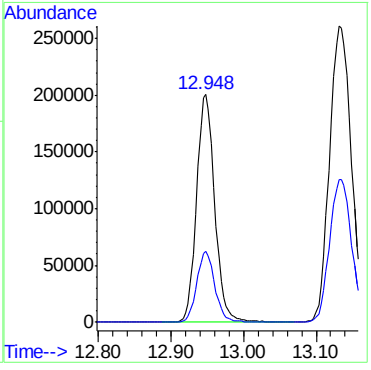


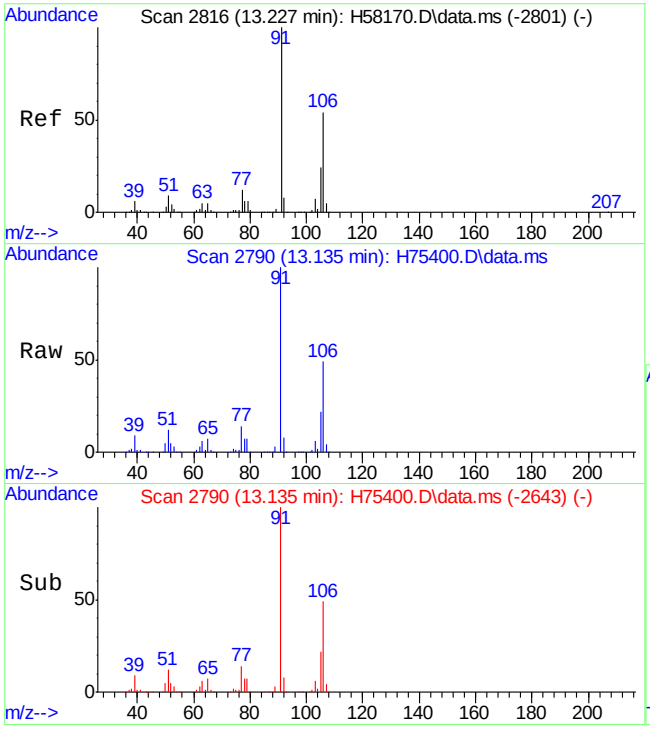


#74
ethylbenzene
Concen: 43.56 ug/L
RT: 12.948 min Scan# 2737
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 91 Resp: 347630

Ion	Ratio	Lower	Upper
91	100		
106	30.8	2.9	62.9

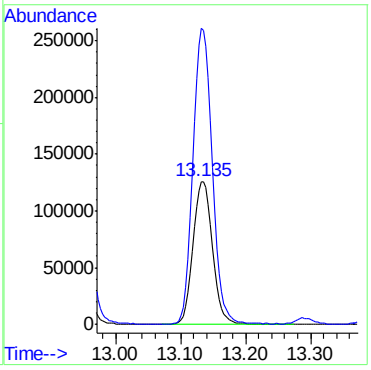


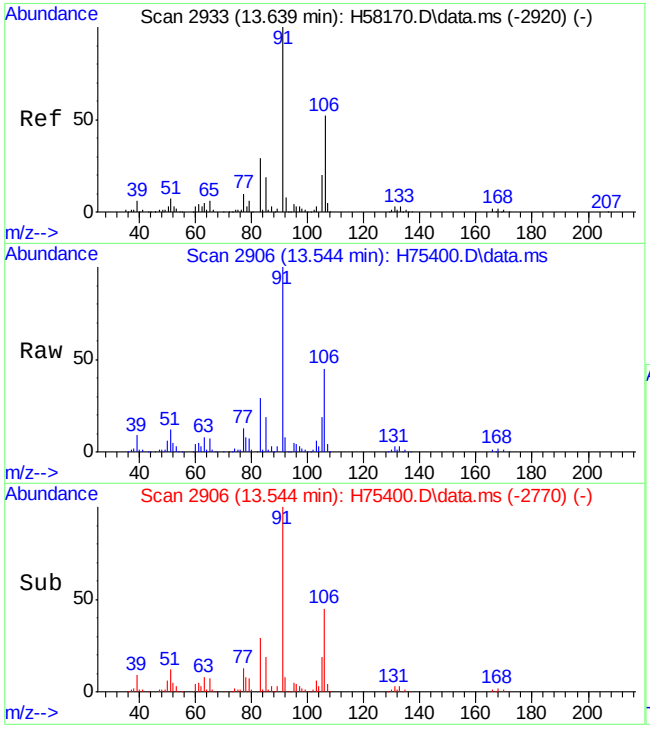


#75
m,p-xylene
Concen: 88.93 ug/L
RT: 13.135 min Scan# 2790
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:106 Resp: 266291

Ion	Ratio	Lower	Upper
106	100		
91	205.6	173.2	233.2

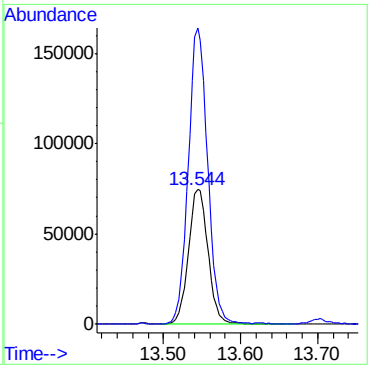




#76
o-xylene
Concen: 42.71 ug/L
RT: 13.544 min Scan# 2906
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

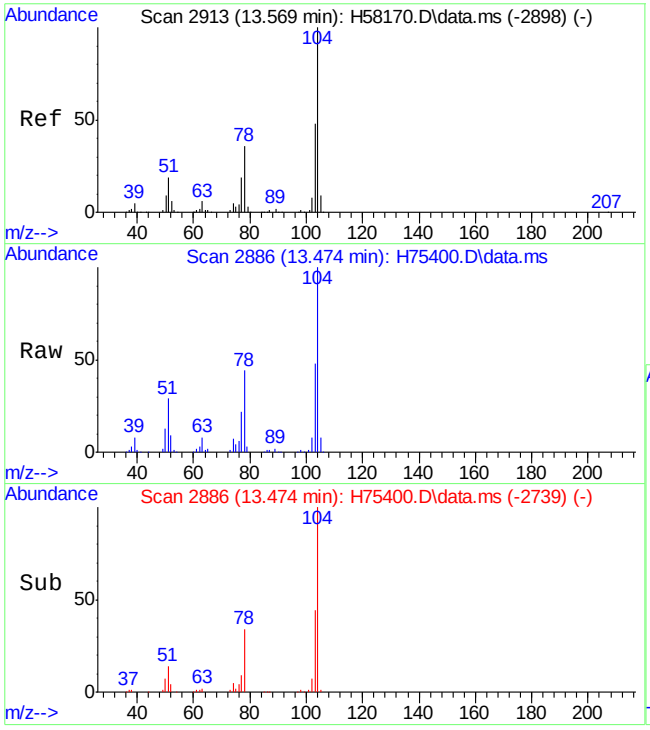
Tgt Ion:106 Resp: 131215

Ion	Ratio	Lower	Upper
106	100		
91	220.2	183.3	243.3



7.4.3

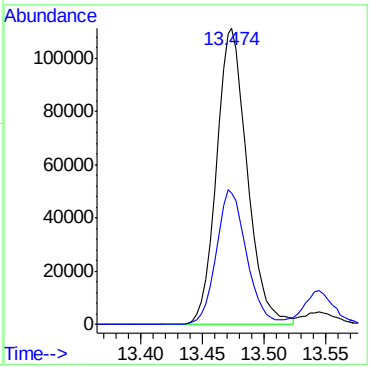
7

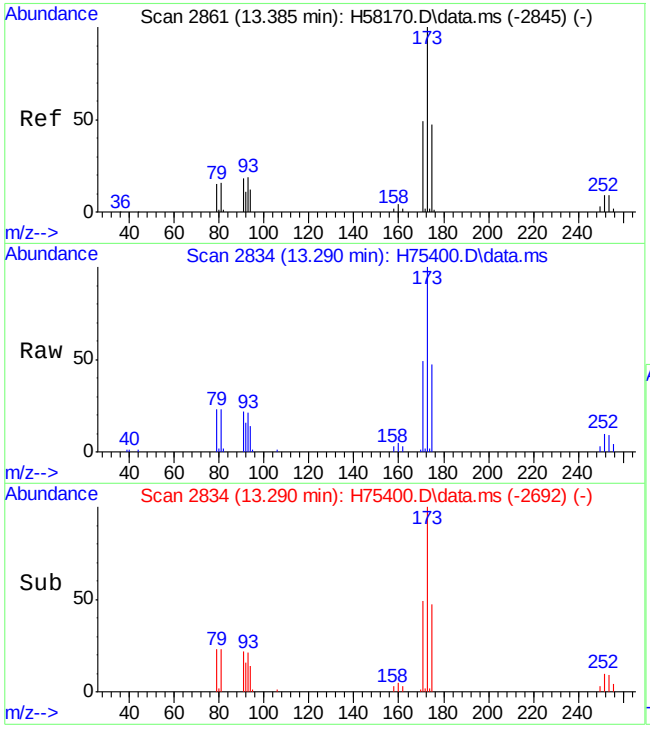


#77
styrene
Concen: 37.17 ug/L
RT: 13.474 min Scan# 2886
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:104 Resp: 192100

Ion	Ratio	Lower	Upper
104	100		
78	44.4	12.2	72.2

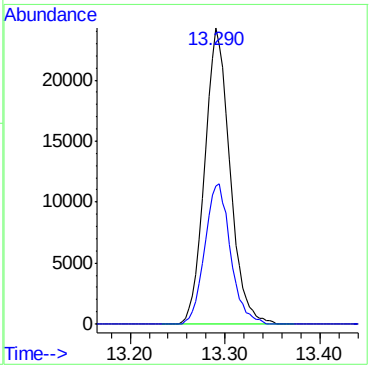


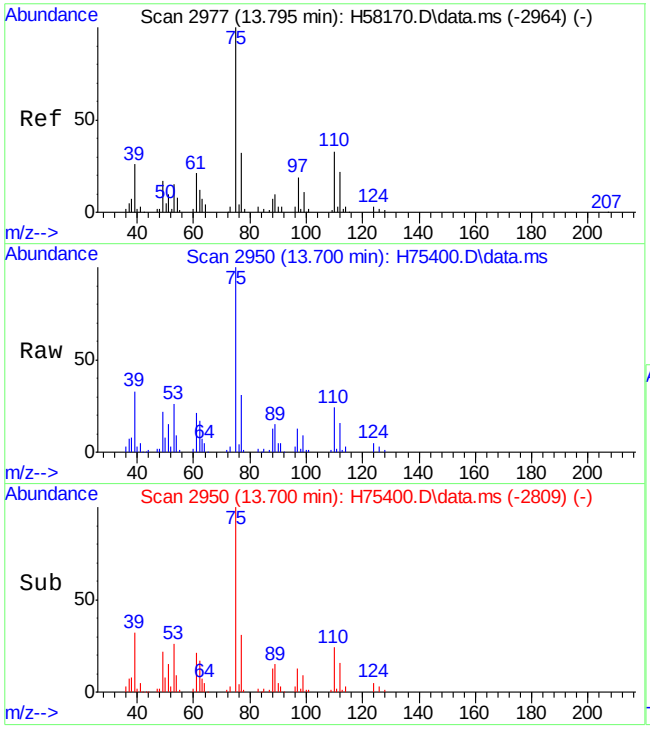


#78
bromoform
Concen: 43.21 ug/L
RT: 13.290 min Scan# 2834
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:173 Resp: 44594

Ion	Ratio	Lower	Upper
173	100		
175	46.6	17.7	77.7

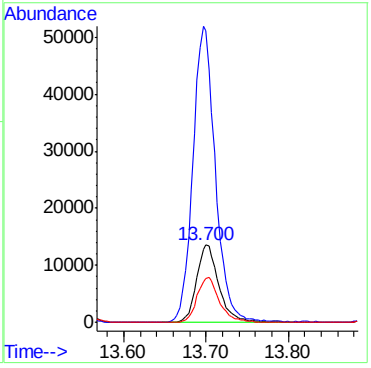


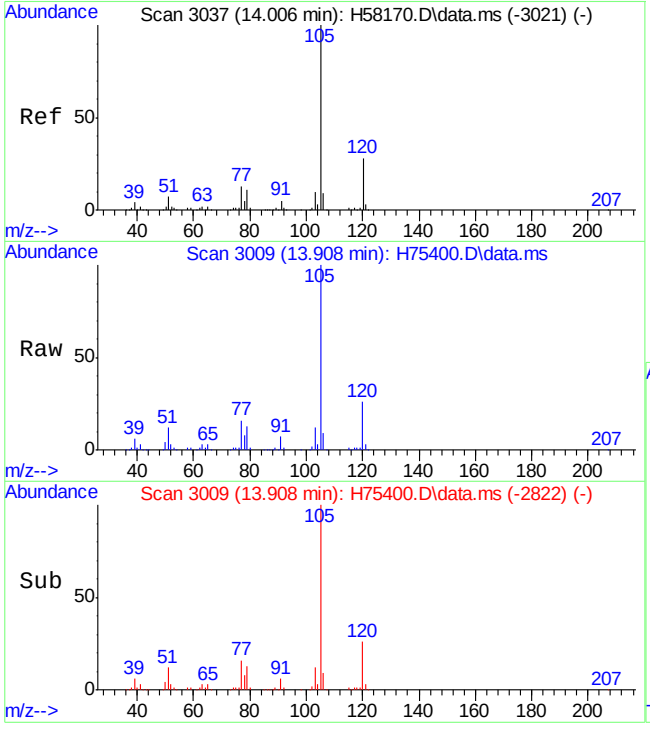


#79
trans-1,4-dichloro-2-butene
Concen: 42.97 ug/L
RT: 13.700 min Scan# 2950
Delta R.T. -0.002 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 53 Resp: 25463

Ion	Ratio	Lower	Upper
53	100		
75	377.9	302.8	362.8#
89	56.6	25.5	85.5

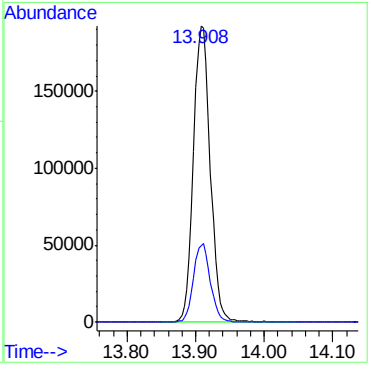


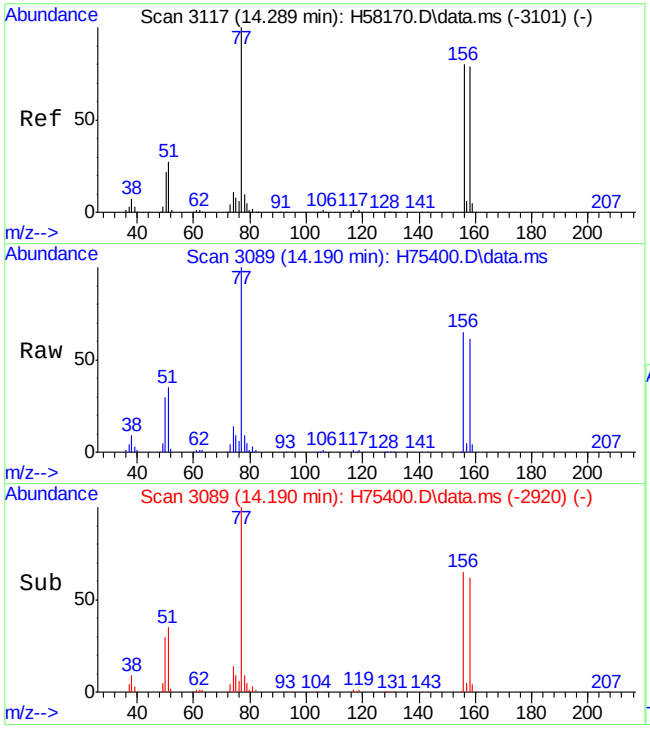


#81
isopropylbenzene
Concen: 39.40 ug/L
RT: 13.908 min Scan# 3009
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:105 Resp: 328347

Ion	Ratio	Lower	Upper
105	100		
120	25.8	0.0	56.6

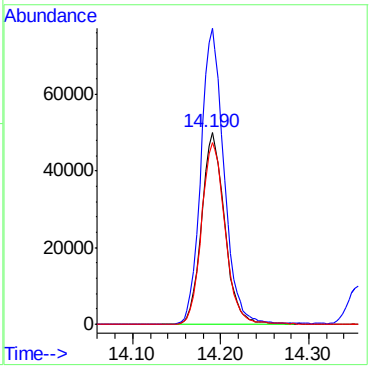


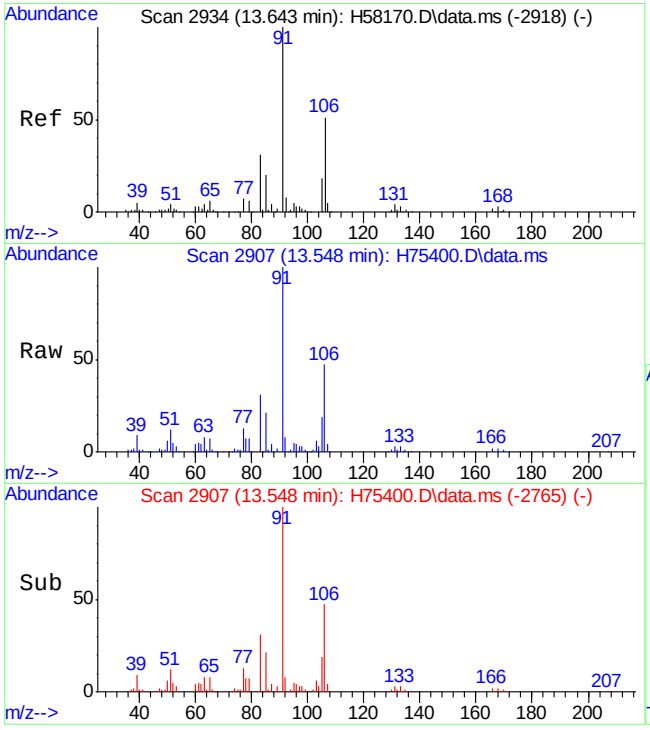


#83
bromobenzene
Concen: 39.29 ug/L
RT: 14.190 min Scan# 3089
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:156 Resp: 90500

Ion	Ratio	Lower	Upper
156	100		
77	153.9	93.1	153.1#
158	94.7	65.7	125.7

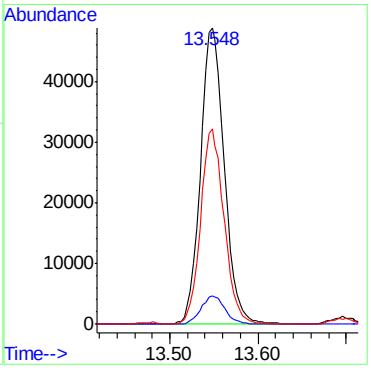


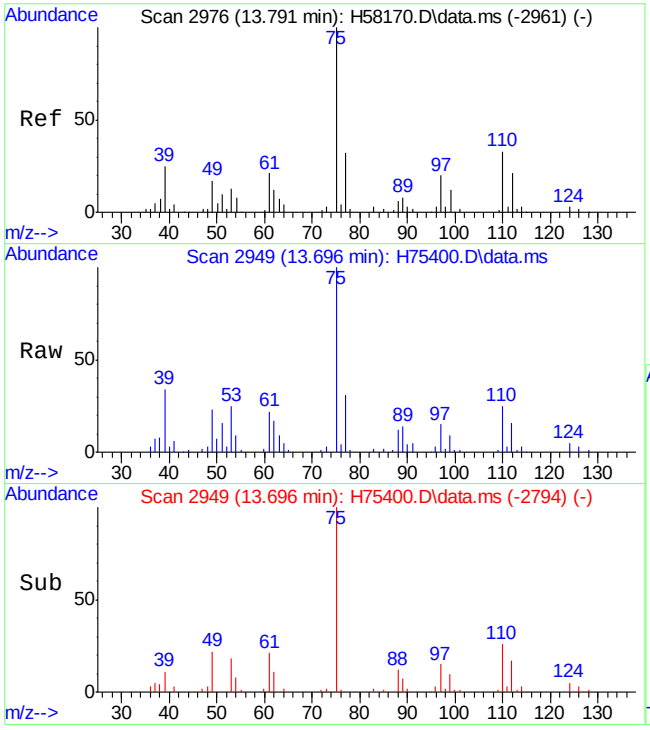


#84
1,1,2,2-tetrachloroethane
Concen: 44.82 ug/L
RT: 13.548 min Scan# 2907
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 83 Resp: 91075

Ion	Ratio	Lower	Upper
83	100		
131	9.6	0.0	45.7
85	66.1	36.0	96.0

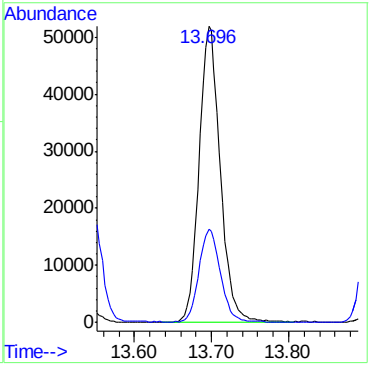


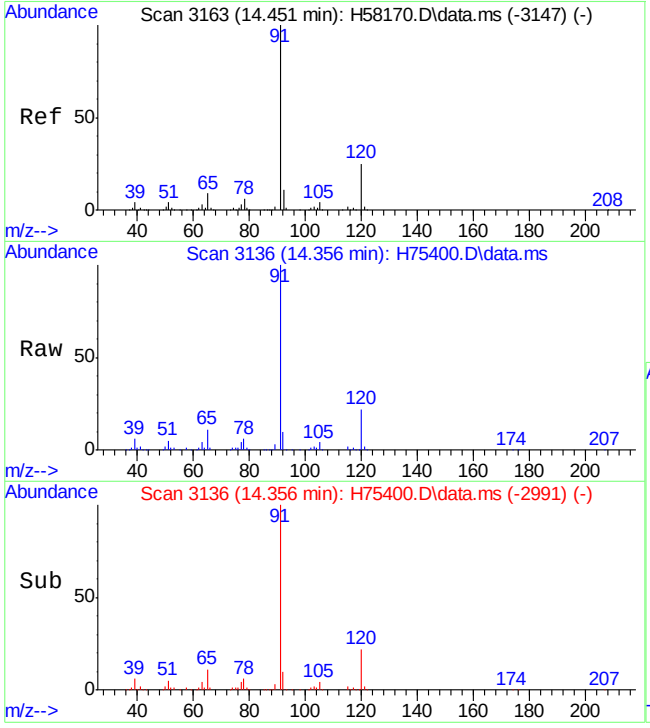


#85
1,2,3-trichloropropane
Concen: 42.72 ug/L
RT: 13.696 min Scan# 2949
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 75 Resp: 98554

Ion	Ratio	Lower	Upper
75	100		
77	31.4	4.2	64.2

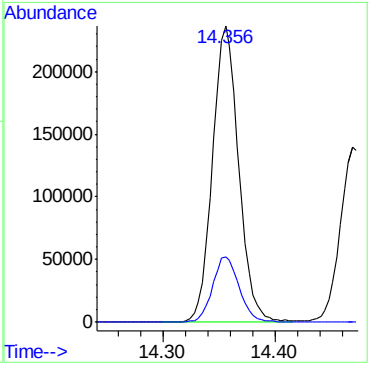


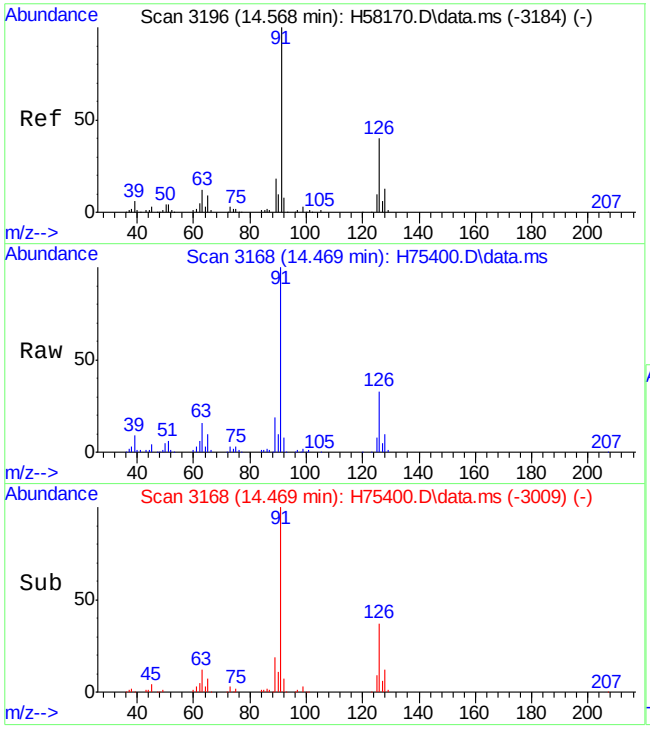


#86
n-propylbenzene
Concen: 39.28 ug/L
RT: 14.356 min Scan# 3136
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 91 Resp: 386132

Ion	Ratio	Lower	Upper
91	100		
120	22.2	0.0	55.4

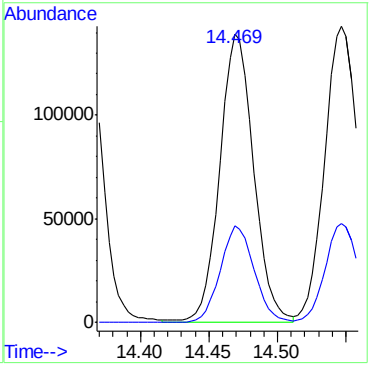


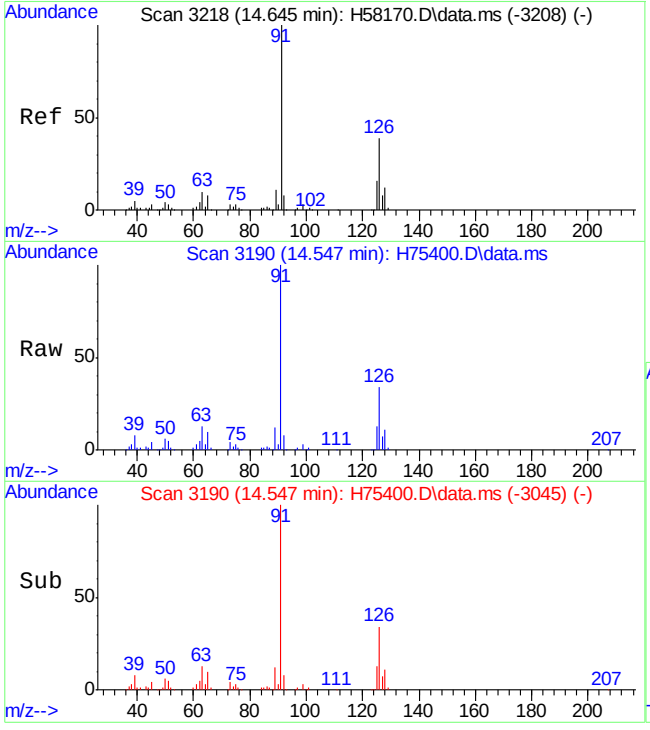


#87
2-chlorotoluene
Concen: 40.62 ug/L
RT: 14.469 min Scan# 3168
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 91 Resp: 238802

Ion	Ratio	Lower	Upper
91	100		
126	33.6	10.4	70.4

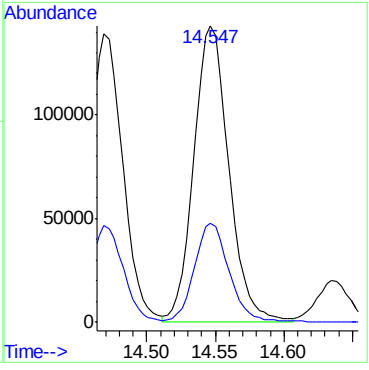


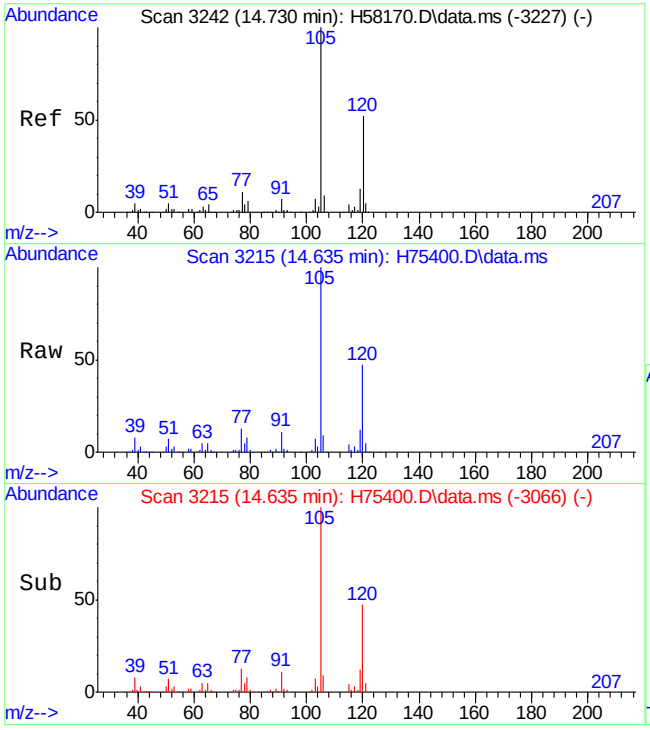


#88
4-chlorotoluene
Concen: 41.19 ug/L
RT: 14.547 min Scan# 3190
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 91 Resp: 254728

Ion	Ratio	Lower	Upper
91	100		
126	33.7	9.4	69.4

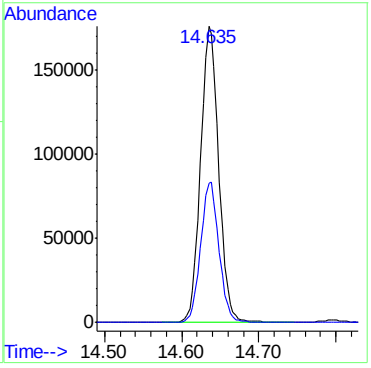


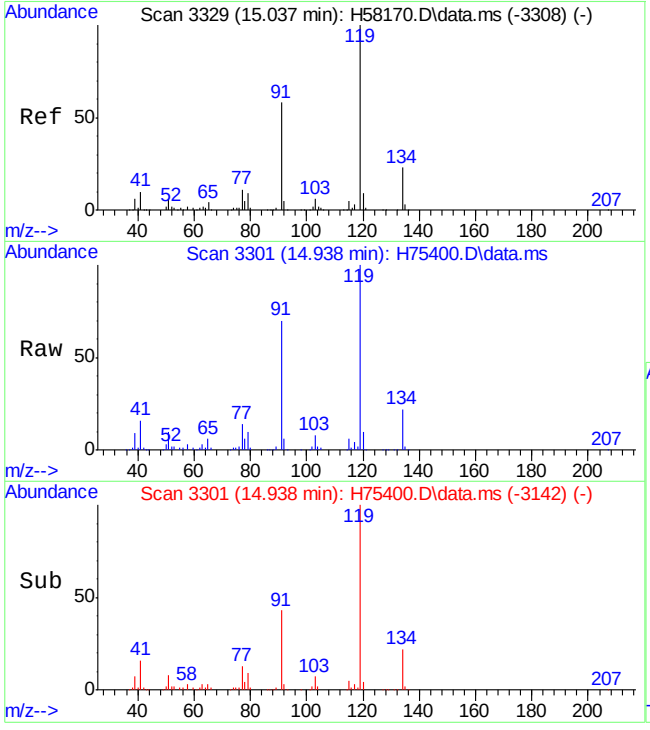


#89
1,3,5-trimethylbenzene
Concen: 43.74 ug/L
RT: 14.635 min Scan# 3215
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:105 Resp: 286399

Ion	Ratio	Lower	Upper
105	100		
120	47.1	18.1	78.1

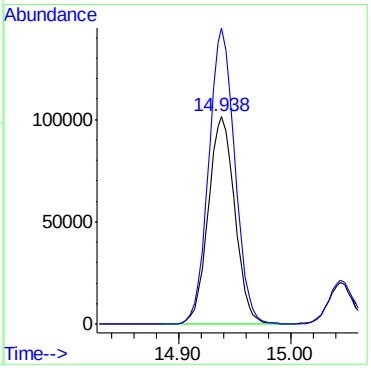


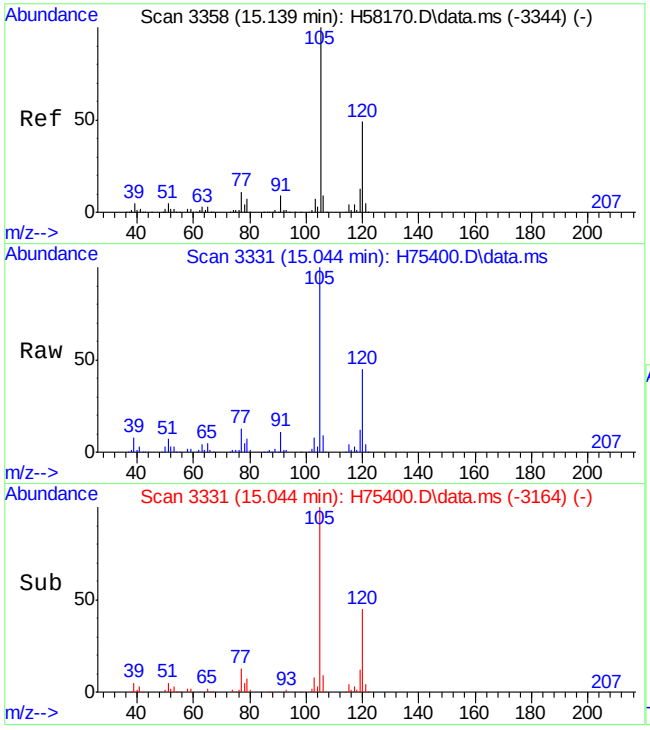


#90
tert-butylbenzene
Concen: 42.11 ug/L
RT: 14.938 min Scan# 3301
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 91 Resp: 168052

Ion	Ratio	Lower	Upper
91	100		
119	142.6	125.7	185.7

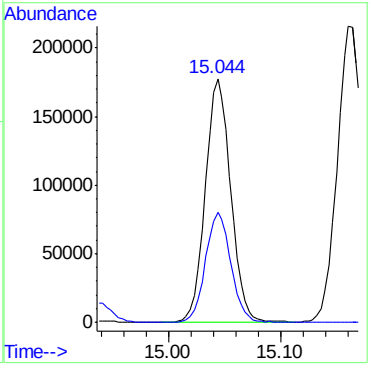


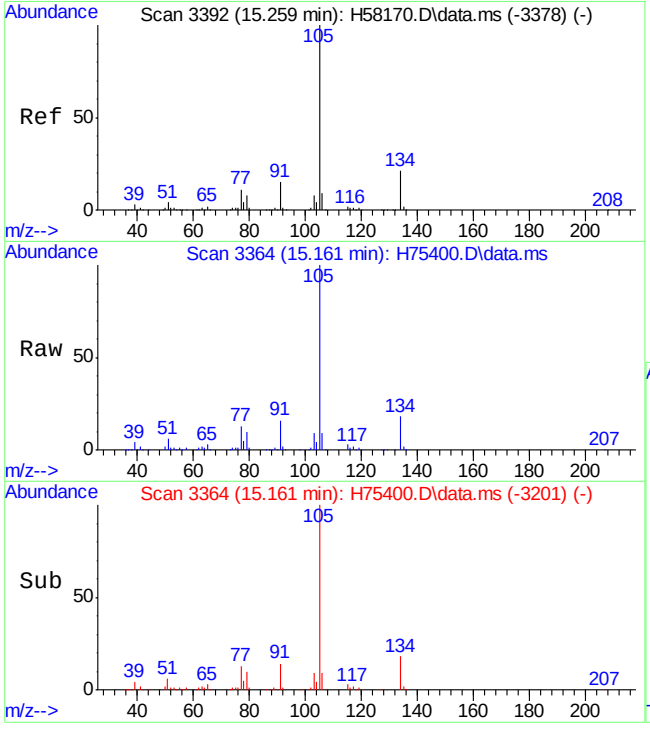


#91
1,2,4-trimethylbenzene
Concen: 42.74 ug/L
RT: 15.044 min Scan# 3331
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:105 Resp: 280789

Ion	Ratio	Lower	Upper
105	100		
120	45.3	15.6	75.6

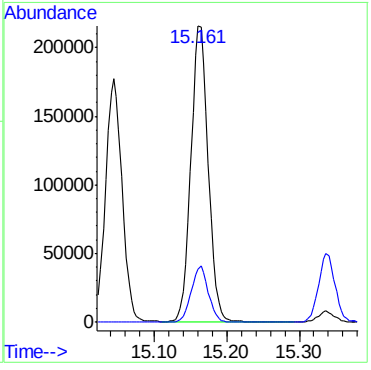


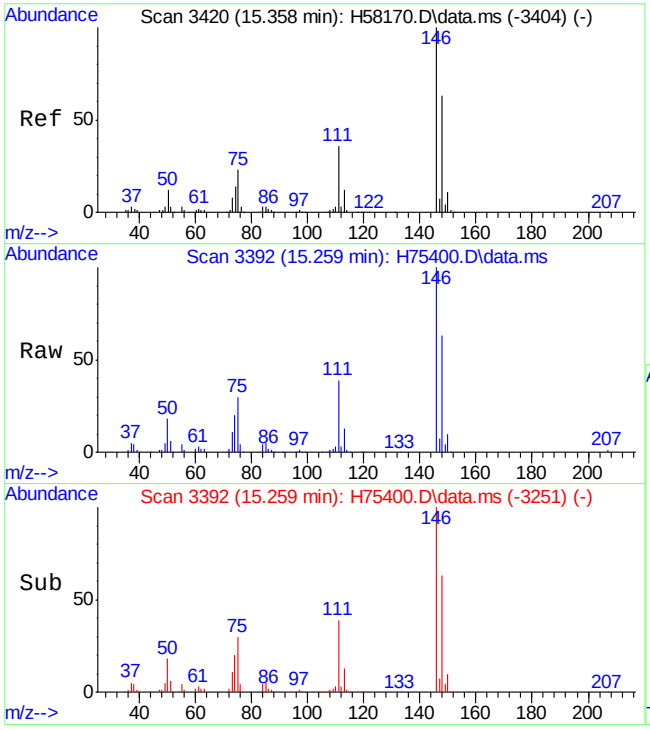


#92
sec-butylbenzene
Concen: 42.17 ug/L
RT: 15.161 min Scan# 3364
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:105 Resp: 357949

Ion	Ratio	Lower	Upper
105	100		
134	17.7	0.0	49.6

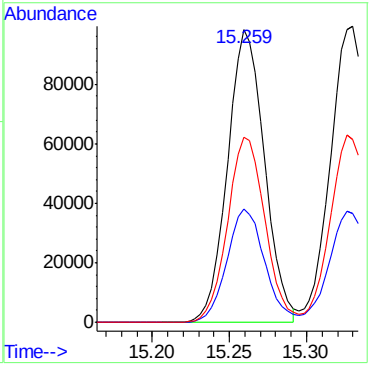


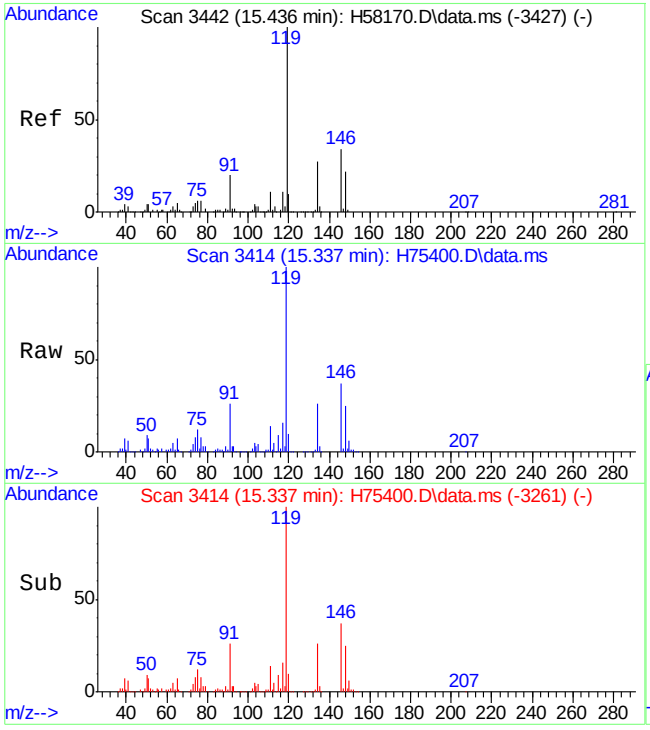


#93
1,3-dichlorobenzene
Concen: 41.92 ug/L
RT: 15.259 min Scan# 3392
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:146 Resp: 163378

Ion	Ratio	Lower	Upper
146	100		
111	38.8	8.2	68.2
148	63.2	34.0	94.0

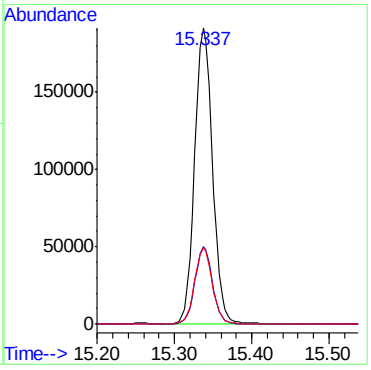


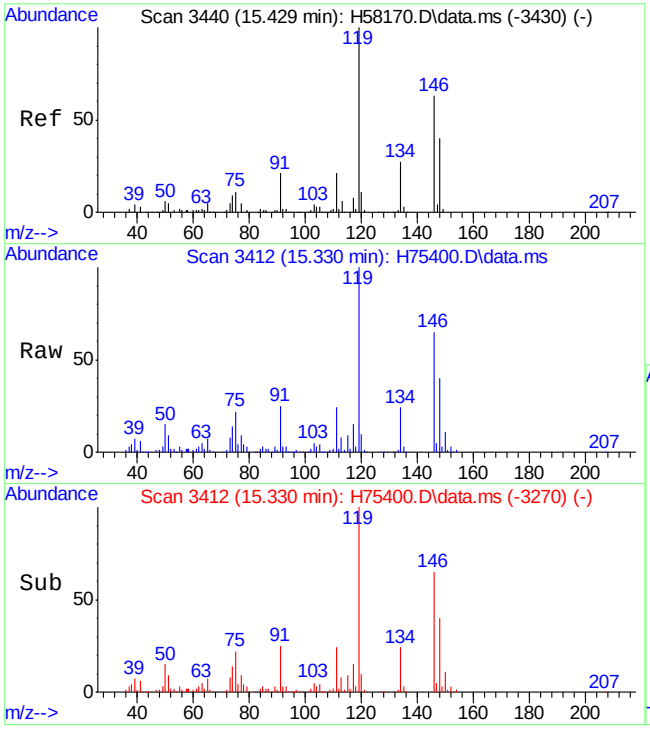


#94
p-isopropyltoluene
Concen: 43.32 ug/L
RT: 15.337 min Scan# 3414
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:119 Resp: 309147

Ion	Ratio	Lower	Upper
119	100		
134	26.1	0.0	57.0
91	25.6	0.0	52.8

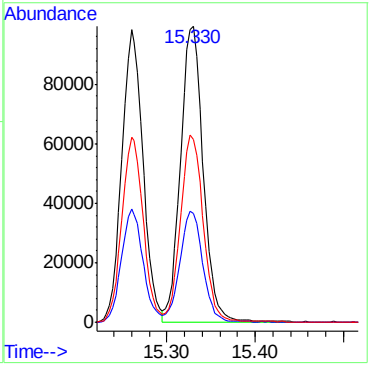


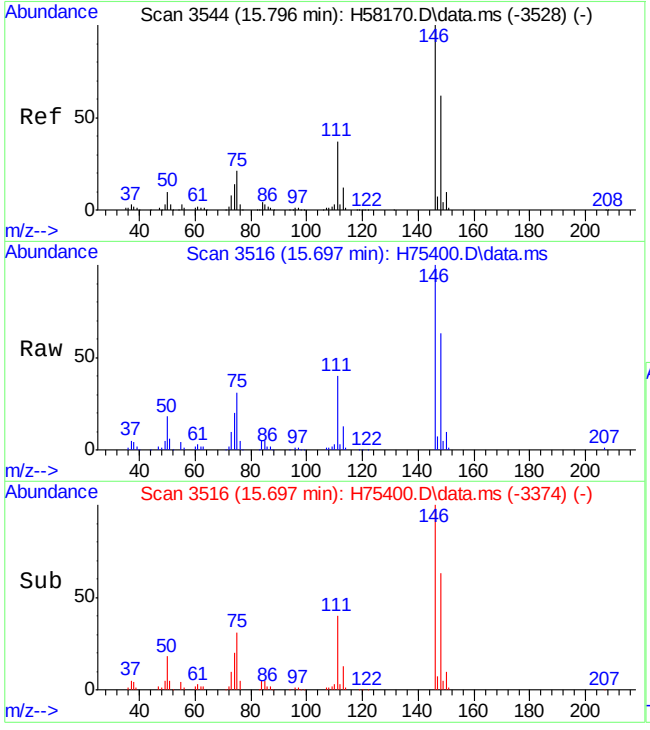


#95
1,4-dichlorobenzene
Concen: 41.90 ug/L
RT: 15.330 min Scan# 3412
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:146 Resp: 178140

Ion	Ratio	Lower	Upper
146	100		
111	36.6	6.7	66.7
148	61.7	34.0	94.0

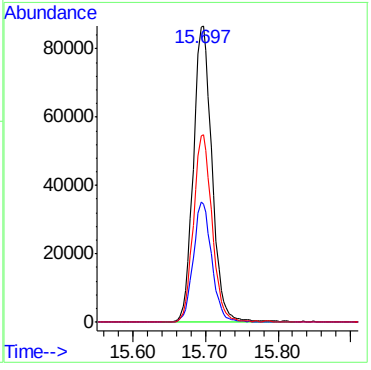


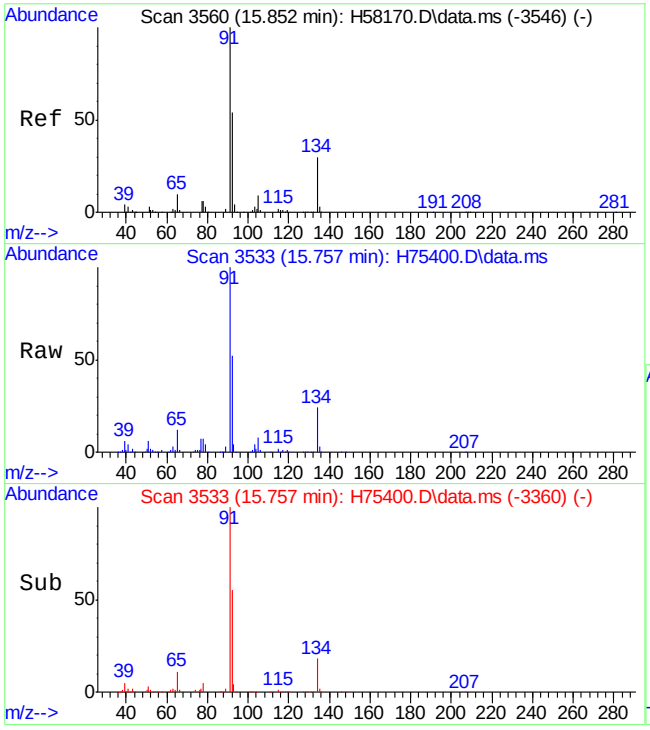


#96
1,2-dichlorobenzene
Concen: 43.75 ug/L
RT: 15.697 min Scan# 3516
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:146 Resp: 154862

Ion	Ratio	Lower	Upper
146	100		
111	39.7	9.9	69.9
148	63.5	33.5	93.5

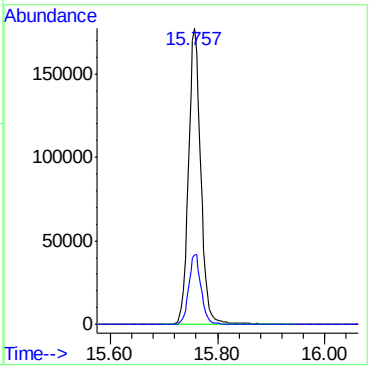


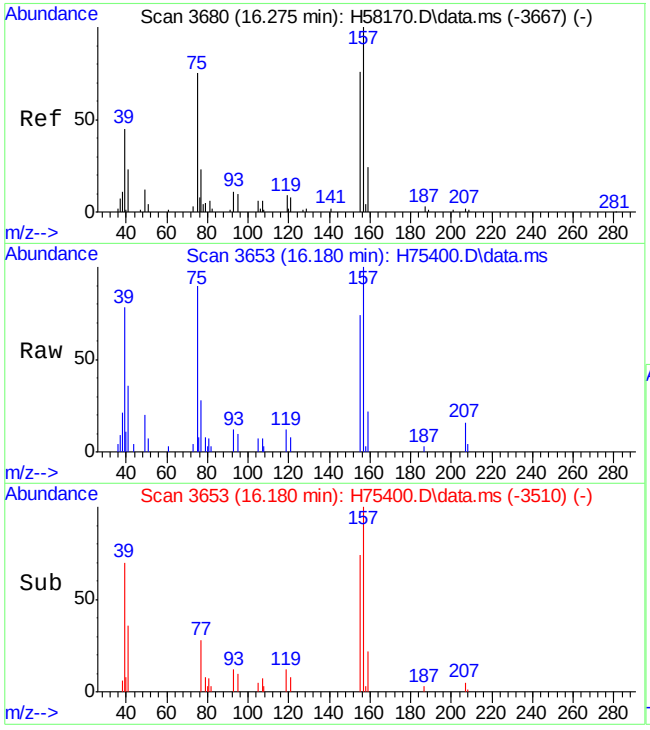


#97
n-butylbenzene
Concen: 44.74 ug/L
RT: 15.757 min Scan# 3533
Delta R.T. 0.000 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 91 Resp: 282999

Ion	Ratio	Lower	Upper
91	100		
134	23.7	0.0	59.2

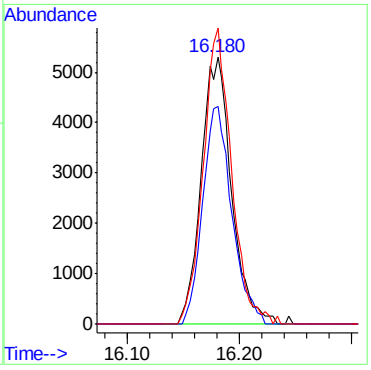


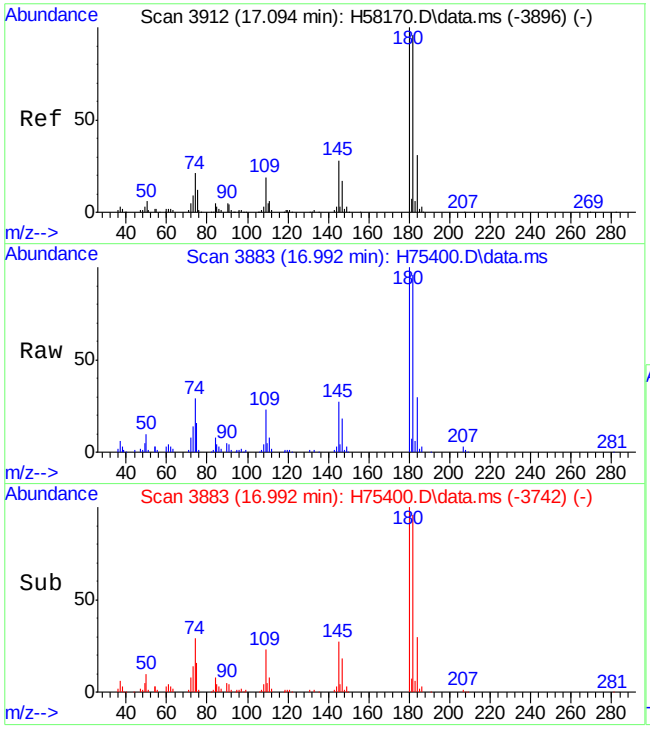


#98
1,2-dibromo-3-chloropropane
Concen: 49.75 ug/L
RT: 16.180 min Scan# 3653
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion: 75 Resp: 10053

Ion	Ratio	Lower	Upper
75	100		
155	81.6	66.2	126.2
157	110.8	88.7	148.7

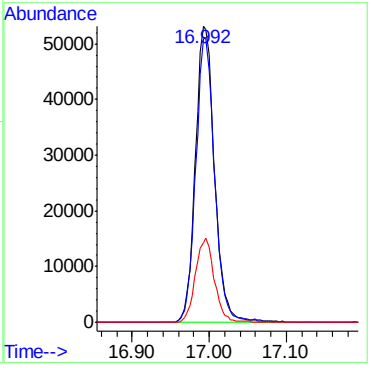


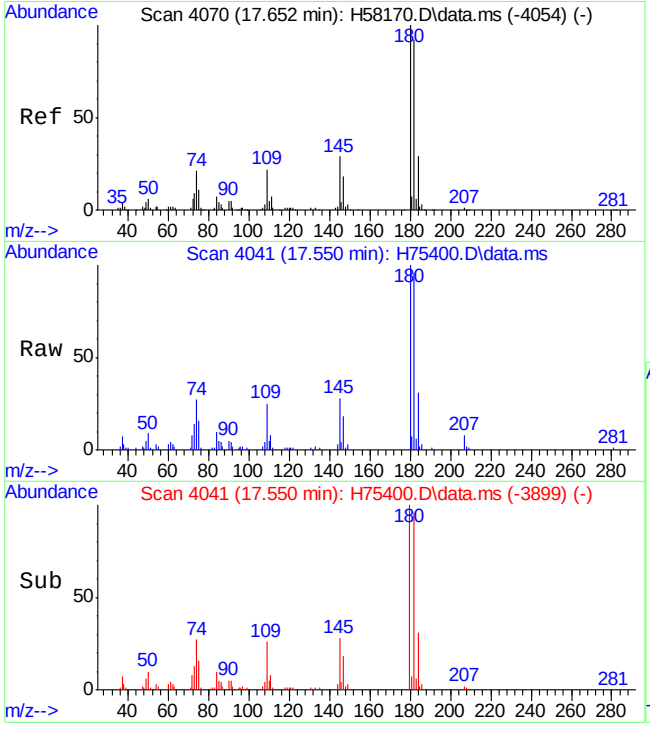


#99
1,3,5-trichlorobenzene
Concen: 41.97 ug/L
RT: 16.992 min Scan# 3883
Delta R.T. -0.003 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:180 Resp: 91275

Ion	Ratio	Lower	Upper
180	100		
182	94.8	74.1	111.1
145	28.0	28.0	42.0

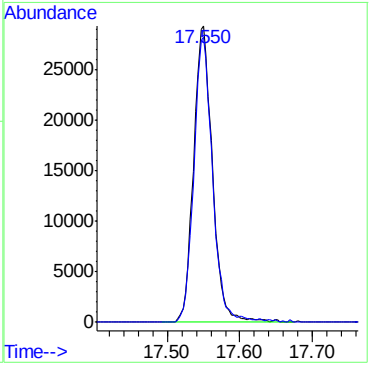


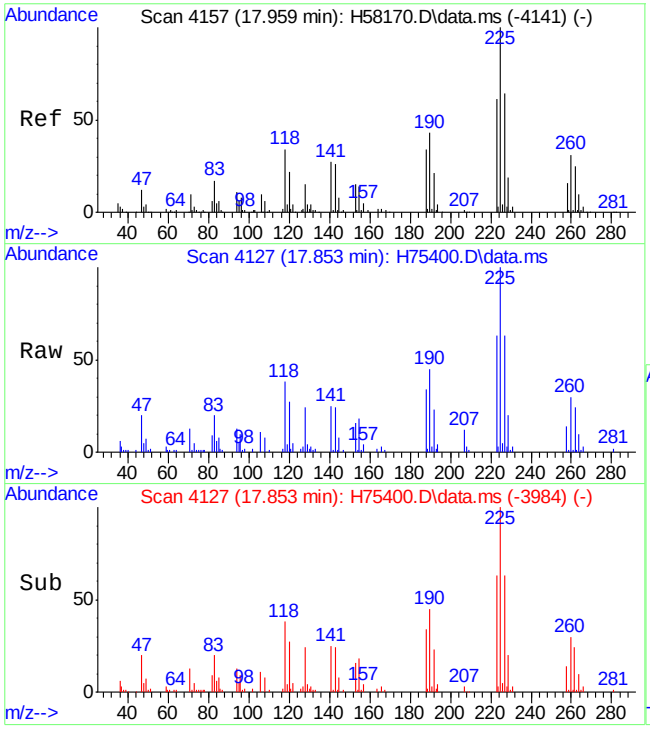


#100
1,2,4-trichlorobenzene
Concen: 46.98 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:180 Resp: 52620

Ion	Ratio	Lower	Upper
180	100		
182	96.2	62.6	122.6

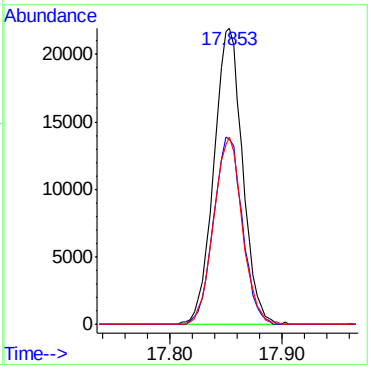


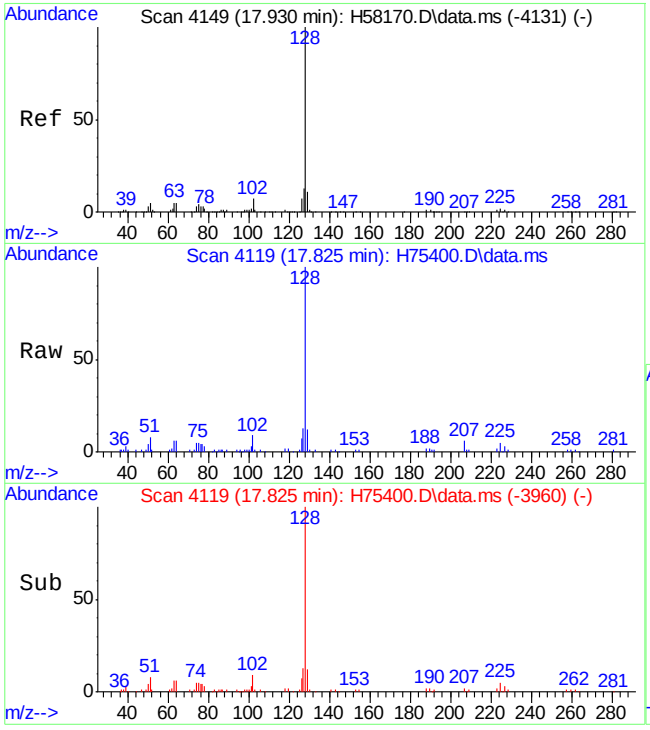


#101
hexachlorobutadiene
Concen: 47.04 ug/L
RT: 17.853 min Scan# 4127
Delta R.T. 0.004 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:225 Resp: 39130

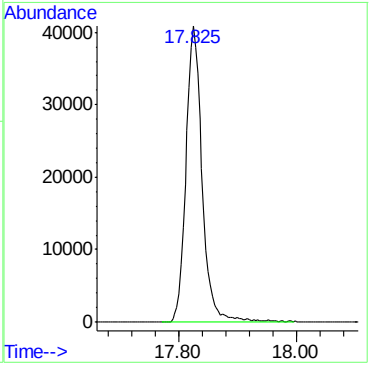
Ion	Ratio	Lower	Upper
225	100		
223	62.7	29.7	89.7
227	63.2	32.4	92.4

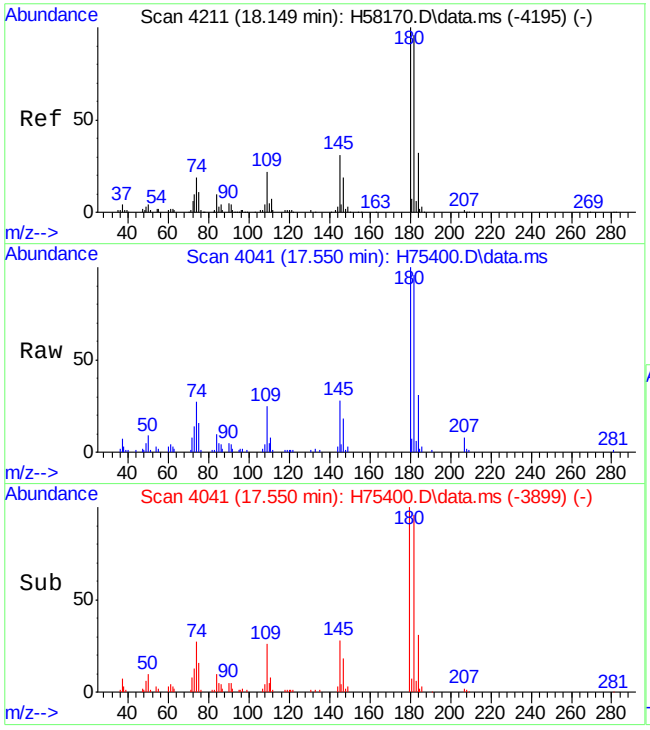




#102
naphthalene
Concen: 46.11 ug/L
RT: 17.825 min Scan# 4119
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:128 Resp: 77678

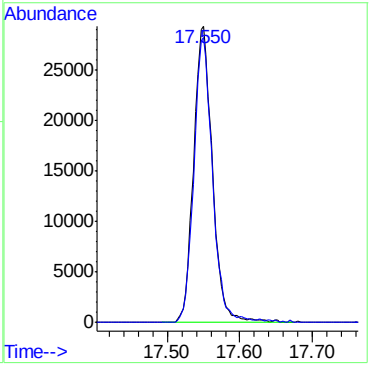




#103
1,2,3-trichlorobenzene
Concen: 46.98 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75400.D
Acq: 6 Oct 15 8:00 pm

Tgt Ion:180 Resp: 52620

Ion	Ratio	Lower	Upper
180	100		
182	96.2	64.3	124.3



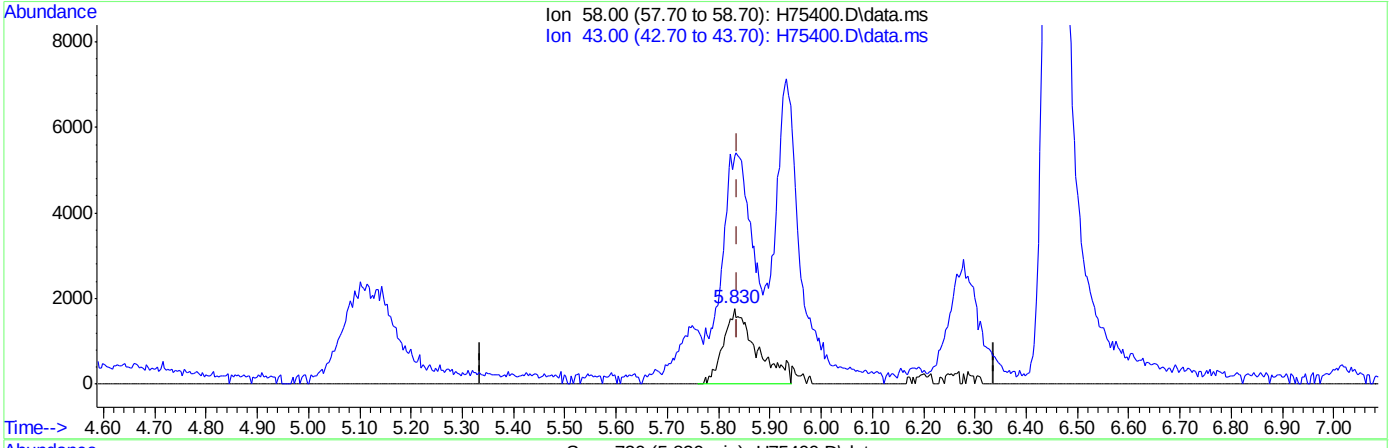
7.4.3

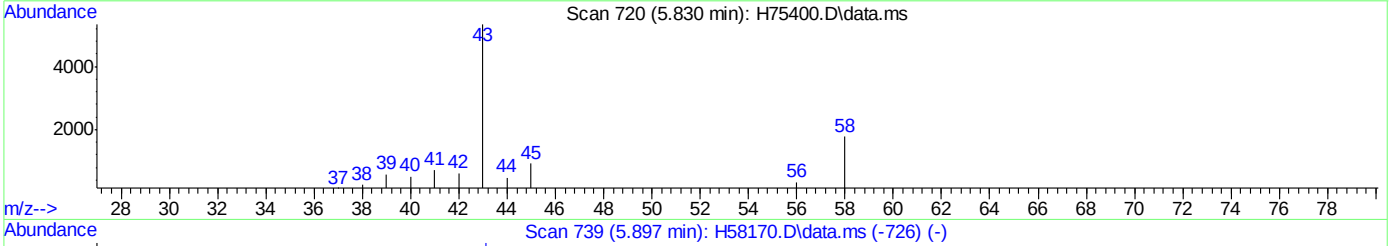
7

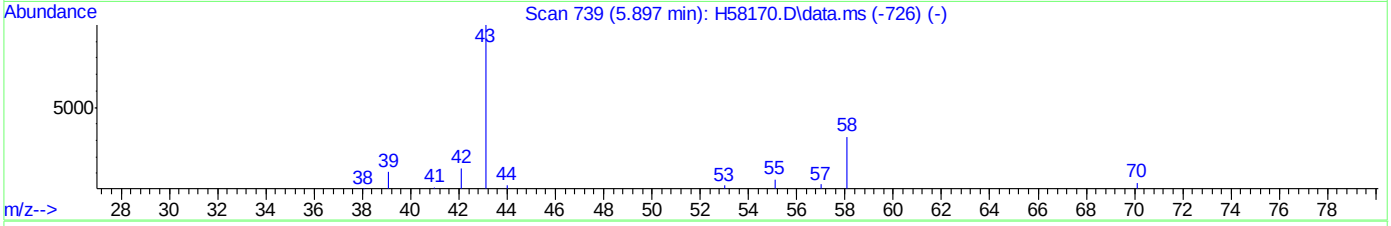
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On    :  6 Oct 2015   8:00 pm
Operator  : kaylap
Sample    : mc41758-1ms
Misc      : ms35373,msh2509,,,,5,1
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Oct 07 08:19:20 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
```







TIC: H75400.D\data.ms

(15) acetone (p)

5.830min (-0.007) 47.83ug/L

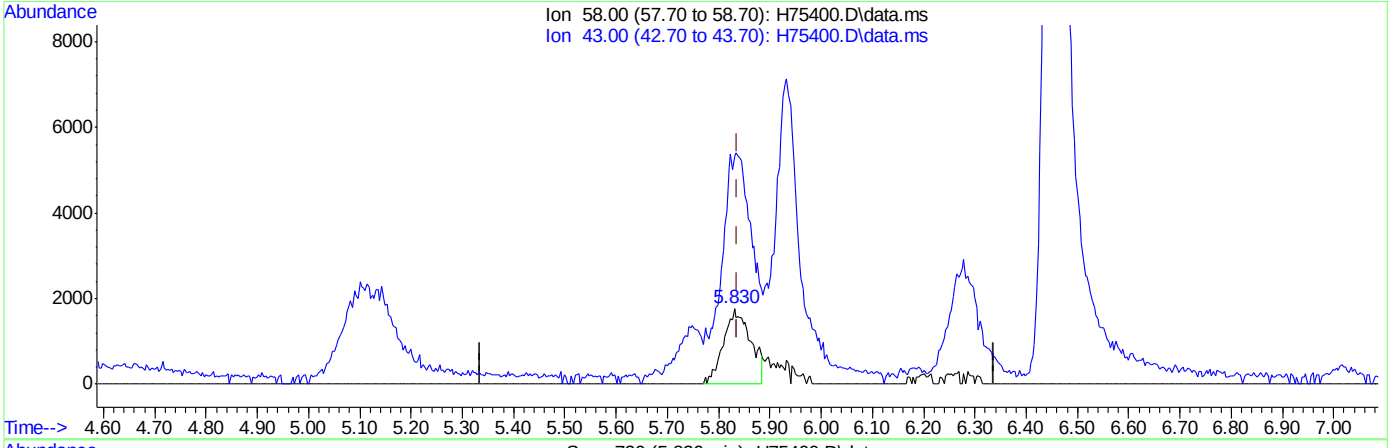
response 7912

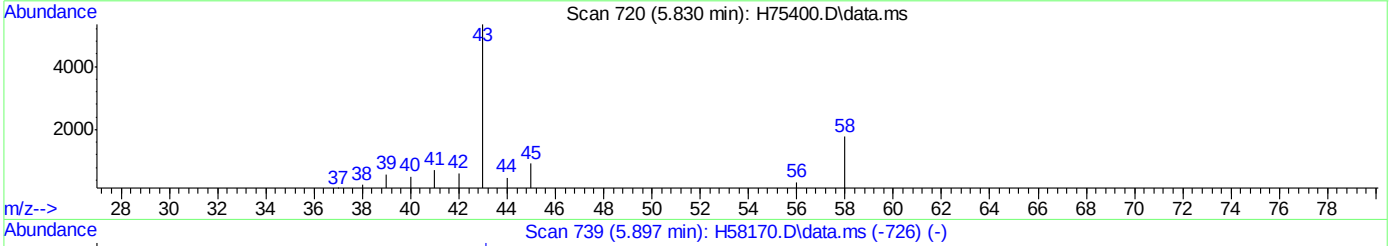
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	229.98#
0.00	0.00	0.00
0.00	0.00	0.00

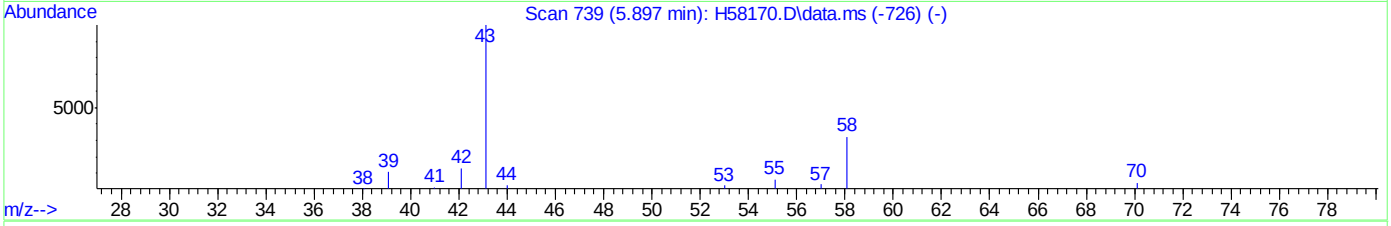
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:19:20 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75400.D\data.ms

(15) acetone (p)

5.830min (-0.007) 38.71ug/L m

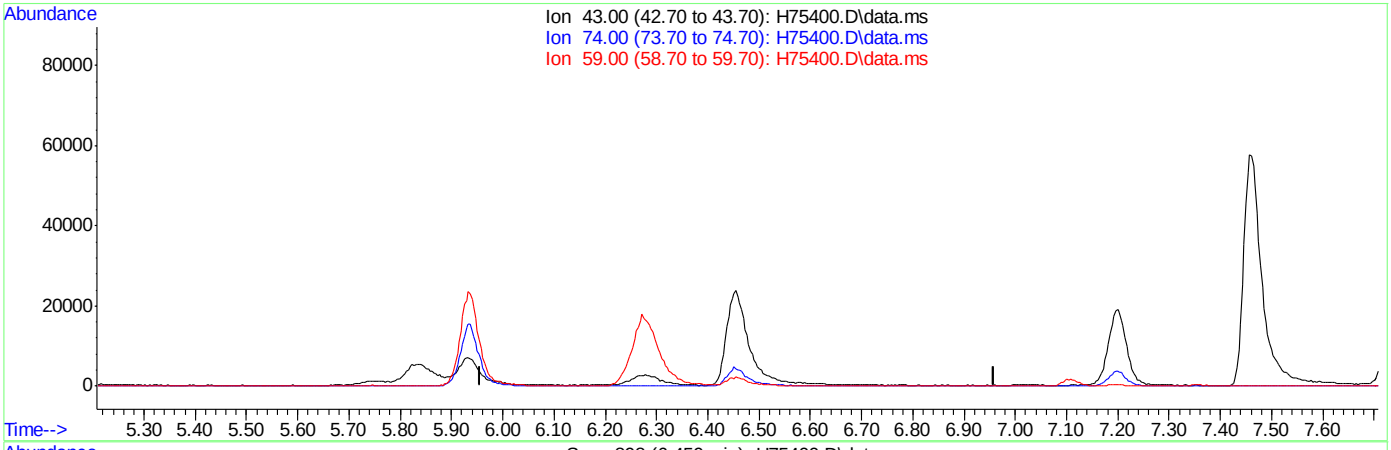
response 6404

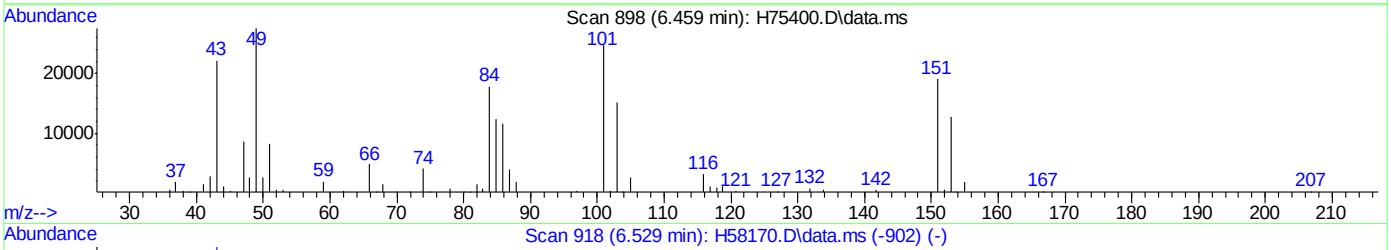
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	301.13
0.00	0.00	0.00
0.00	0.00	0.00

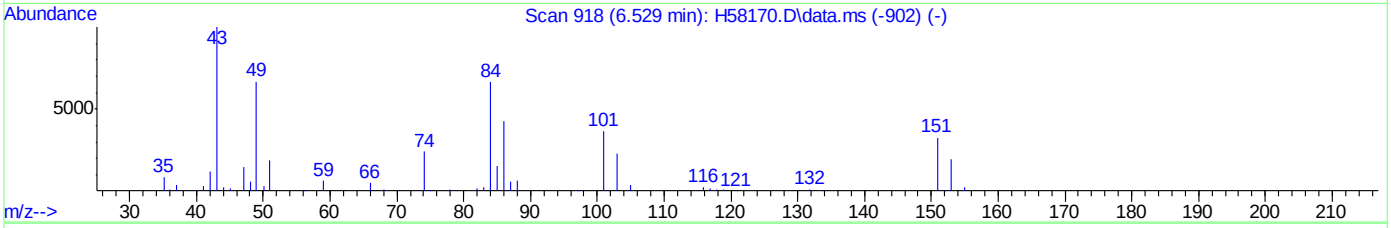
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:19:20 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75400.D\data.ms

(17) methyl acetate (p)

6.458min (-6.458) 0.00ug/L

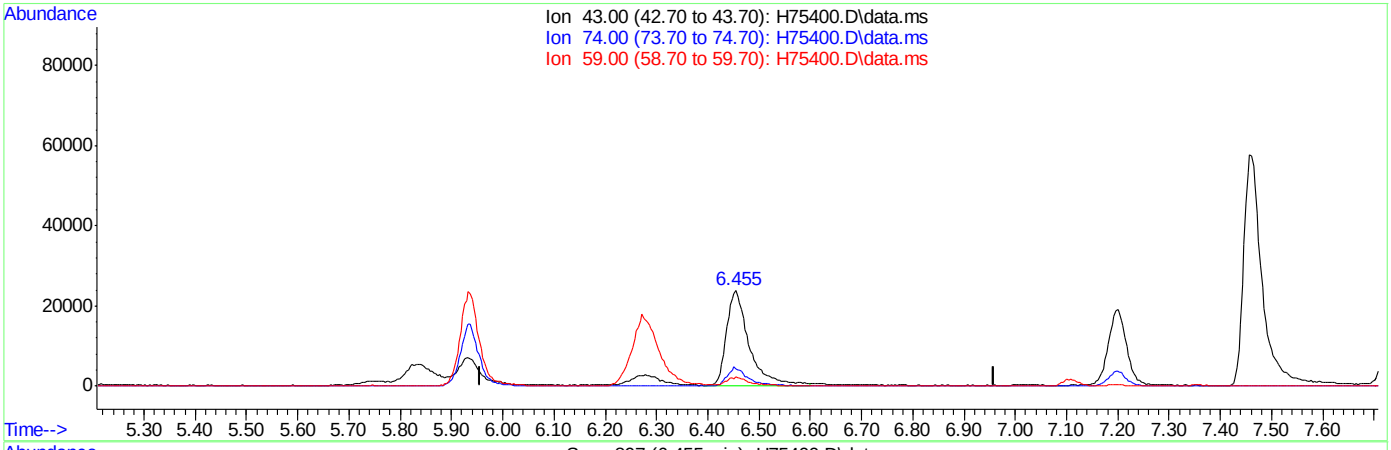
response 0

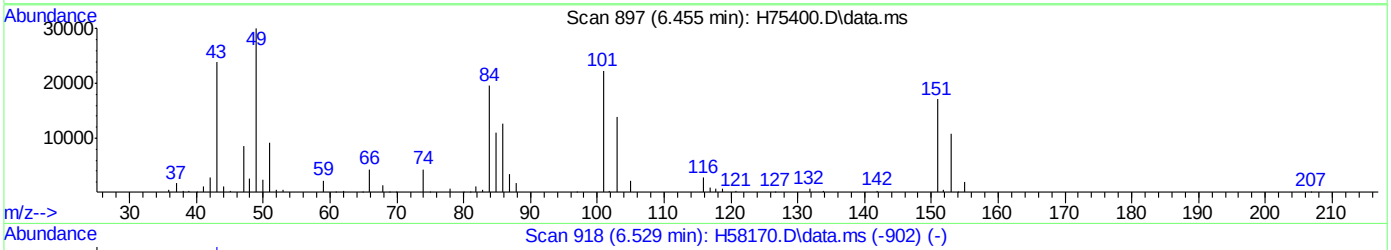
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

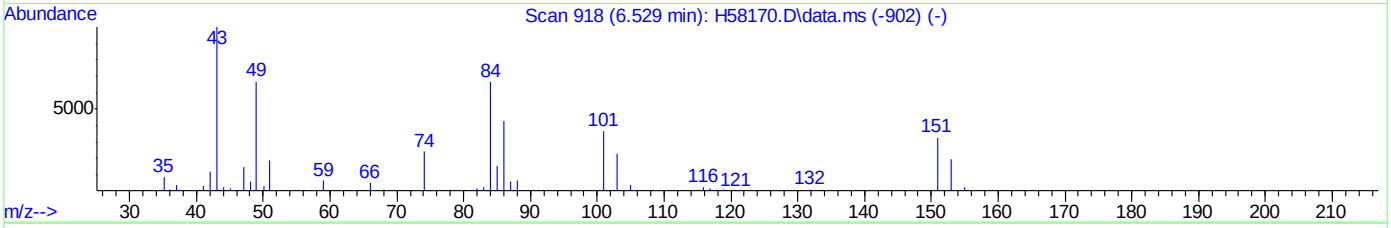
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75400.D
Acq On : 6 Oct 2015 8:00 pm
Operator : kaylap
Sample : mc41758-1ms
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 08:19:20 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75400.D\data.ms

(17) methyl acetate (p)

6.455min (-0.003) 48.89ug/L m

response 74285

Ion	Exp%	Act%
43.00	100	100
74.00	25.40	18.09
59.00	13.30	9.41
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/07/15 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:21:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.191	65	70777	500.00	ug/L		0.00
4) pentafluorobenzene	8.615	168	165792	50.00	ug/L		0.00
42) 1,4-difluorobenzene	9.480	114	261279	50.00	ug/L		0.00
66) chlorobenzene-d5	12.733	82	163909	50.00	ug/L		0.00
80) 1,4-dichlorobenzene-d4	15.299	152	147139	50.00	ug/L		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.248	113	87649	52.28	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.56%				
60) toluene-d8 (s)	11.276	98	320229	50.53	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.06%				
82) bromofluorobenzene (s)	13.961	95	137930	47.32	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.64%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.276	59	75107	459.49	ug/L		98
3) Ethanol	5.100	45	87979	4102.35	ug/L		93
5) dichlorodifluoromethane	4.024	85	39735	22.08	ug/L		98
6) chloromethane	4.275	50	82917	53.36	ug/L		96
7) vinyl chloride	4.497	62	90739	52.55	ug/L		99
8) bromomethane	4.952	96	58352	56.81	ug/L		97
9) chloroethane	5.104	64	62084	58.81	ug/L		100
11) trichlorofluoromethane	5.697	101	132086	50.97	ug/L		99
12) freon-113	6.463	101	73847	44.93	ug/L		91
13) acrolein	5.693	56	44288	595.53	ug/L		99
14) 1,1-dichloroethene	6.272	96	70743	49.68	ug/L	#	72
15) acetone	5.831	58	7370m	41.80	ug/L		
16) ethyl ether	5.937	59	69919	49.19	ug/L		88
17) methyl acetate	6.448	43	81817	50.52	ug/L		90
18) methylene chloride	6.452	84	90666	50.33	ug/L	#	69
19) methyl tert butyl ether	7.200	73	220505	49.81	ug/L		90
20) acrylonitrile	6.325	53	33549	51.53	ug/L		99
21) allyl chloride	6.515	41	144283m	49.07	ug/L		
22) trans-1,2-dichloroethene	7.108	96	76617	48.30	ug/L	#	82
23) iodomethane	6.360	142	121047	47.47	ug/L		94
24) carbon disulfide	6.692	76	224036	43.04	ug/L		98
25) propionitrile	7.373	54	11279	47.77	ug/L		100
26) vinyl acetate	7.458	43	166770	53.40	ug/L		91
27) chloroprene	7.719	53	124456	45.40	ug/L		97
28) di-isopropyl ether	7.761	45	303452	51.92	ug/L		90
29) methacrylonitrile	7.874	41	52496	46.74	ug/L		97
30) 2-butanone	7.772	72	9581	48.20	ug/L		94
31) 1,1-dichloroethane	7.355	63	156469	48.21	ug/L		95
32) tert-butyl ethyl ether	8.160	59	264497	48.66	ug/L		89
33) Hexane	7.744	41	138709	46.51	ug/L		91
34) isobutyl alcohol	8.160	43	54171	386.14	ug/L	#	73
35) 2,2-dichloropropane	8.209	77	113729	47.61	ug/L		92
36) cis-1,2-dichloroethene	7.923	96	86989	49.87	ug/L		85
37) ethyl acetate	8.160	43	52820	74.72	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:21:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.093	128	41902	49.24	ug/L	#	51
39)	chloroform	8.128	83	153638	49.26	ug/L		100
41)	1,1,1-trichloroethane	8.880	97	127636	51.41	ug/L		93
43)	cyclohexane	9.162	56	137795	44.50	ug/L	#	79
44)	carbon tetrachloride	9.240	117	107599	52.56	ug/L		95
45)	1,1-dichloropropene	9.053	75	105410	46.68	ug/L		91
46)	benzene	9.275	78	317020	47.72	ug/L		100
47)	tetrahydrofuran	8.460	42	24894	44.99	ug/L		87
48)	1,2-dichloroethane	8.774	62	120625	48.67	ug/L		99
49)	tert-amyl methyl ether	9.402	73	212176	46.99	ug/L		90
50)	heptane	9.762	43	105131	44.96	ug/L		90
51)	trichloroethene	9.896	95	85903	49.35	ug/L		79
52)	1,2-dichloropropane	9.861	63	89720	48.62	ug/L		96
53)	dibromomethane	9.836	93	55887	50.52	ug/L		96
54)	bromodichloromethane	9.953	83	108857	49.15	ug/L		96
55)	methylcyclohexane	10.415	83	125167	44.27	ug/L		85
57)	methyl methacrylate	10.055	69	53525	46.34	ug/L		92
58)	1,4-dioxane	10.055	88	3136	203.54	ug/L		96
59)	cis-1,3-dichloropropene	10.574	75	121060	48.96	ug/L		93
61)	4-methyl-2-pentanone	10.669	43	91172	48.67	ug/L		91
62)	toluene	11.346	92	193376	47.65	ug/L		98
63)	trans-1,3-dichloropropene	10.994	75	109309	43.84	ug/L		97
64)	1,1,2-trichloroethane	11.163	83	64512	47.77	ug/L		92
65)	ethyl methacrylate	11.378	69	108176	48.92	ug/L		96
67)	tetrachloroethene	12.087	166	84990	43.49	ug/L		94
68)	1,3-dichloropropane	11.399	76	135921	46.31	ug/L		97
69)	dibromochloromethane	11.685	129	78136	40.46	ug/L		98
70)	1,2-dibromoethane	11.936	107	76619	44.32	ug/L		93
71)	2-hexanone	11.530	43	60796	42.86	ug/L		92
72)	chlorobenzene	12.769	112	221226	42.53	ug/L		91
73)	1,1,1,2-tetrachloroethane	12.687	131	75419	46.86	ug/L		93
74)	ethylbenzene	12.945	91	379861	45.52	ug/L		96
75)	m,p-xylene	13.132	106	289940	92.61	ug/L		96
76)	o-xylene	13.545	106	143580	44.69	ug/L		99
77)	styrene	13.474	104	212617	39.35	ug/L		95
78)	bromoform	13.294	173	49028	45.30	ug/L		98
79)	trans-1,4-dichloro-2-b...	13.700	53	27937	44.91	ug/L	#	84
81)	isopropylbenzene	13.908	105	355314	41.59	ug/L		100
83)	bromobenzene	14.191	156	99481	42.13	ug/L		84
84)	1,1,2,2-tetrachloroethane	13.545	83	98169	47.13	ug/L		94
85)	1,2,3-trichloropropane	13.697	75	109270	46.20	ug/L		99
86)	n-propylbenzene	14.353	91	414237	41.11	ug/L		94
87)	2-chlorotoluene	14.469	91	254400	42.21	ug/L		88
88)	4-chlorotoluene	14.547	91	270052	42.59	ug/L		90
89)	1,3,5-trimethylbenzene	14.635	105	307355	45.79	ug/L		100
90)	tert-butylbenzene	14.939	91	179204	43.80	ug/L		88
91)	1,2,4-trimethylbenzene	15.045	105	304589	45.23	ug/L		98
92)	sec-butylbenzene	15.161	105	380931	43.78	ug/L		98
93)	1,3-dichlorobenzene	15.260	146	174746	43.74	ug/L		100
94)	p-isopropyltoluene	15.337	119	325791	44.53	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:21:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

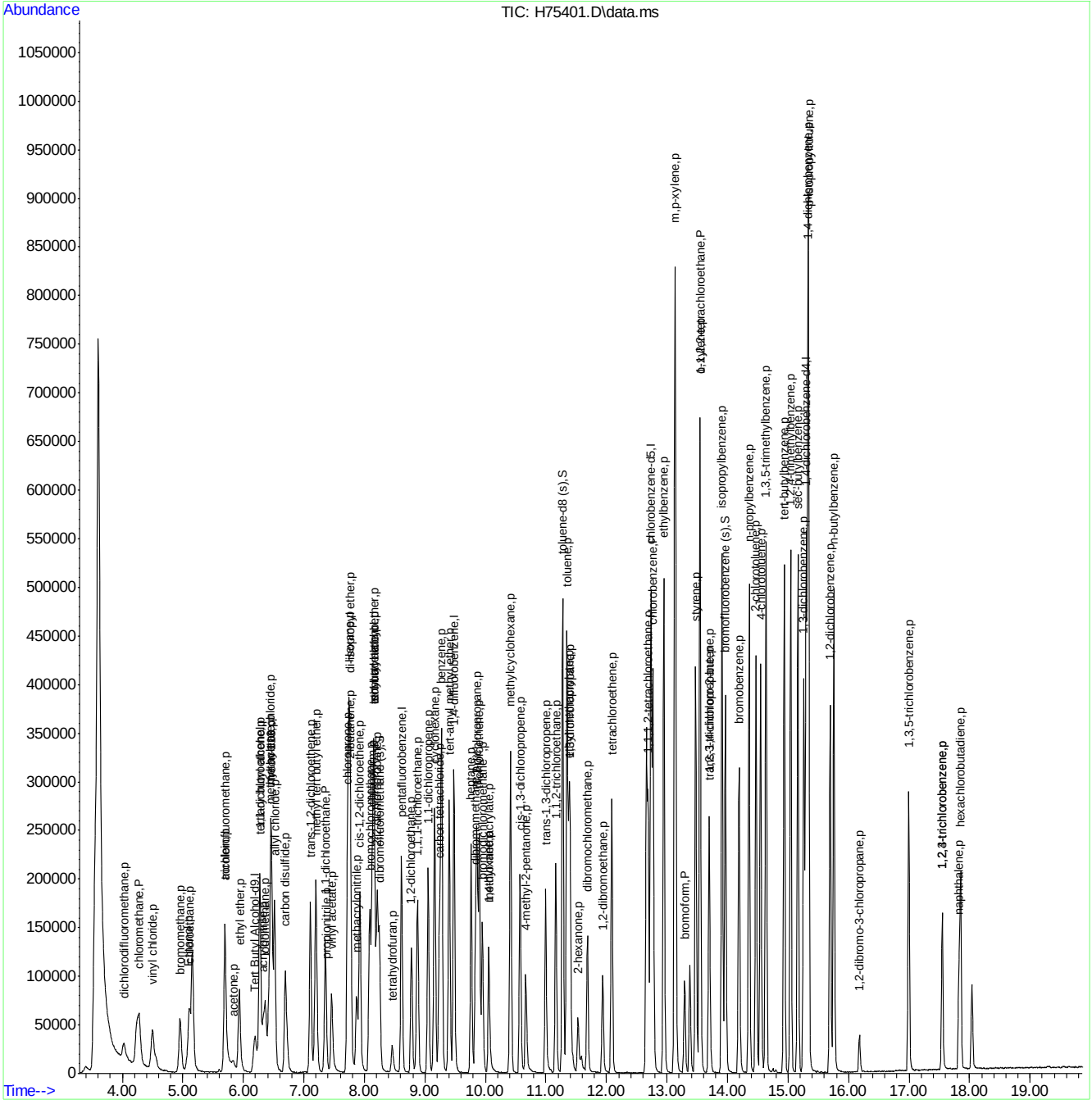
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.327	146	190696	43.75	ug/L	99
96) 1,2-dichlorobenzene	15.694	146	167052	46.04	ug/L	98
97) n-butylbenzene	15.757	91	298890	46.09	ug/L	91
98) 1,2-dibromo-3-chloropr...	16.177	75	11145	53.79	ug/L	83
99) 1,3,5-trichlorobenzene	16.993	180	97760	43.85	ug/L	94
100) 1,2,4-trichlorobenzene	17.547	180	57783	50.71	ug/L	95
101) hexachlorobutadiene	17.850	225	41072	48.37	ug/L	100
102) naphthalene	17.825	128	88269	51.82	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	57783	50.71	ug/L	96

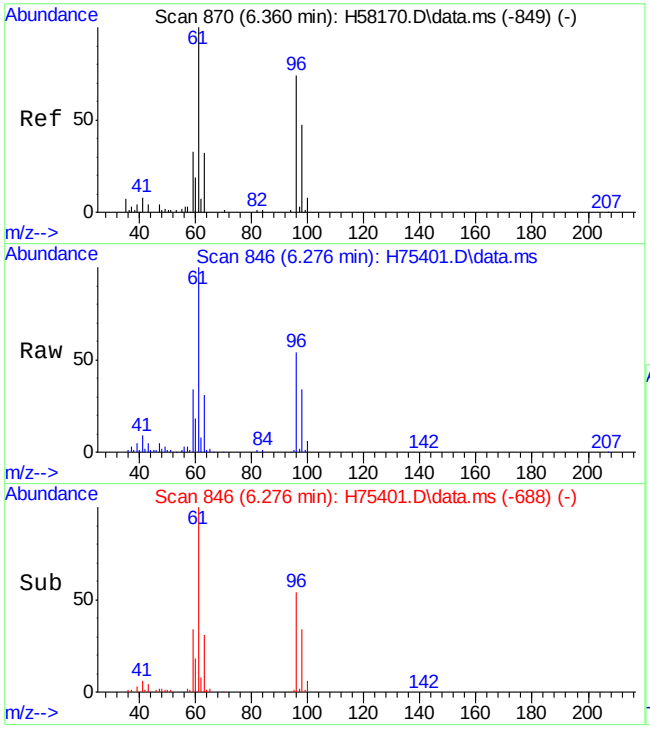
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:21:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

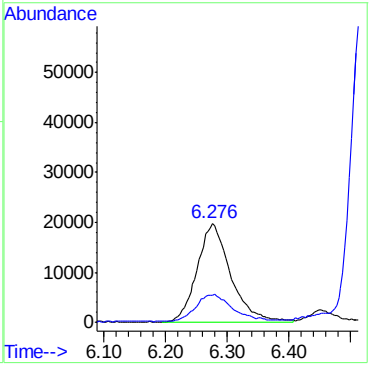


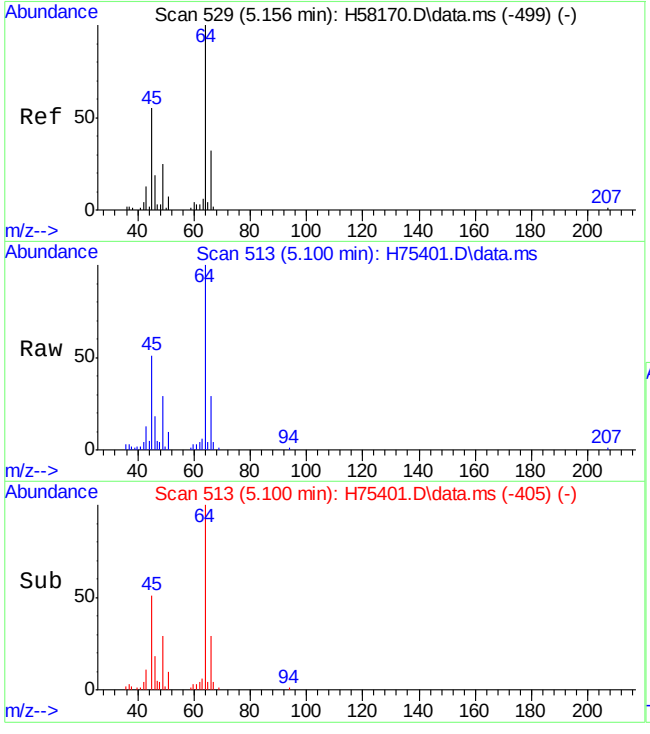


#2
tertiary butyl alcohol
Concen: 459.49 ug/L
RT: 6.276 min Scan# 846
Delta R.T. -0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 59 Resp: 75107

Ion	Ratio	Lower	Upper
59	100		
41	26.6	0.0	57.4

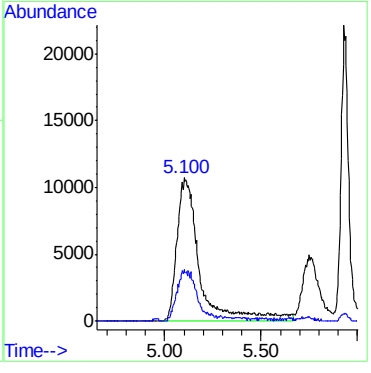


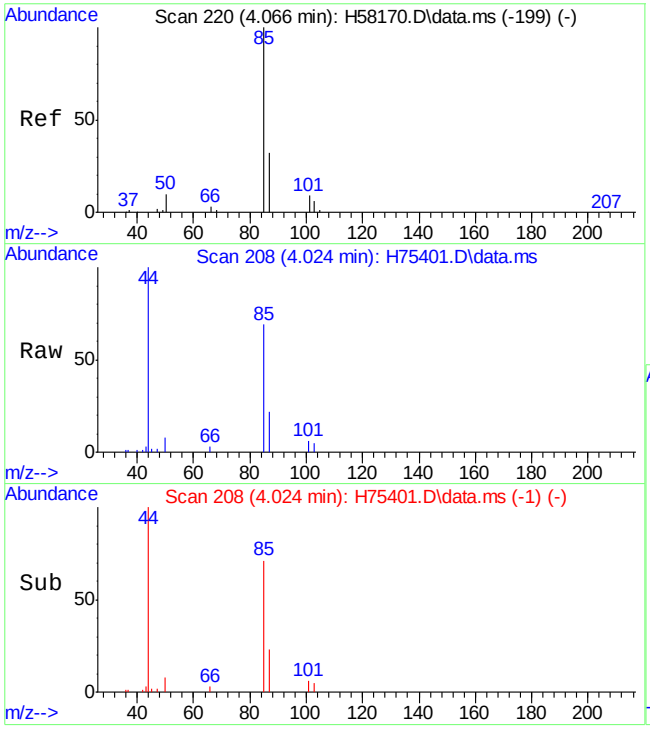


#3
Ethanol
Concen: 4102.35 ug/L
RT: 5.100 min Scan# 513
Delta R.T. -0.020 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 45 Resp: 87979

Ion	Ratio	Lower	Upper
45	100		
46	30.8	27.7	41.5

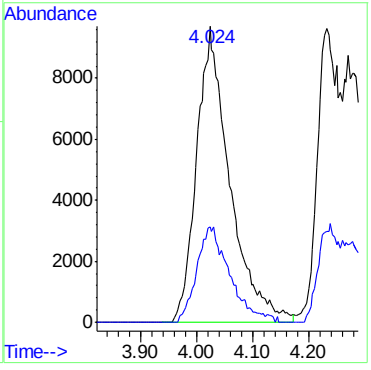


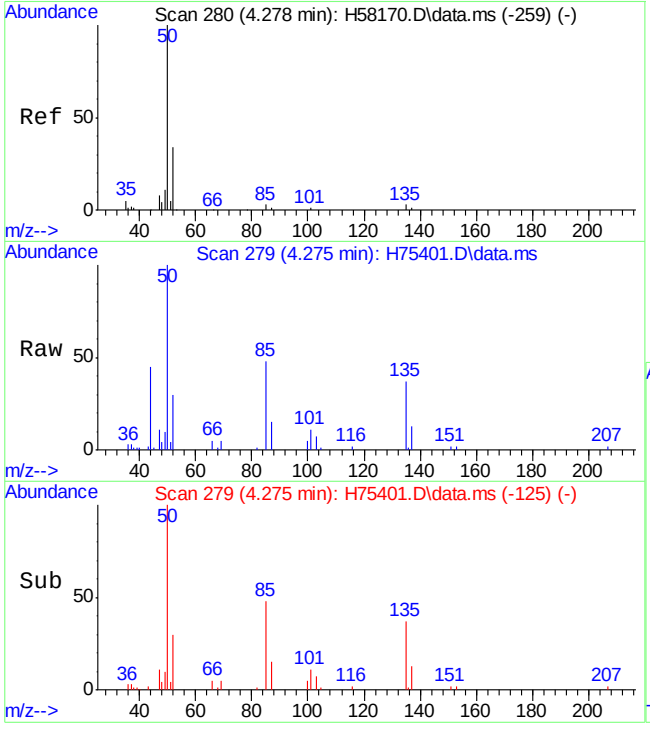


#5
dichlorodifluoromethane
Concen: 22.08 ug/L
RT: 4.024 min Scan# 208
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 85 Resp: 39735

Ion	Ratio	Lower	Upper
85	100		
87	32.3	1.5	61.5

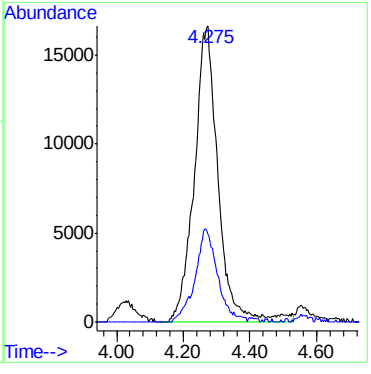


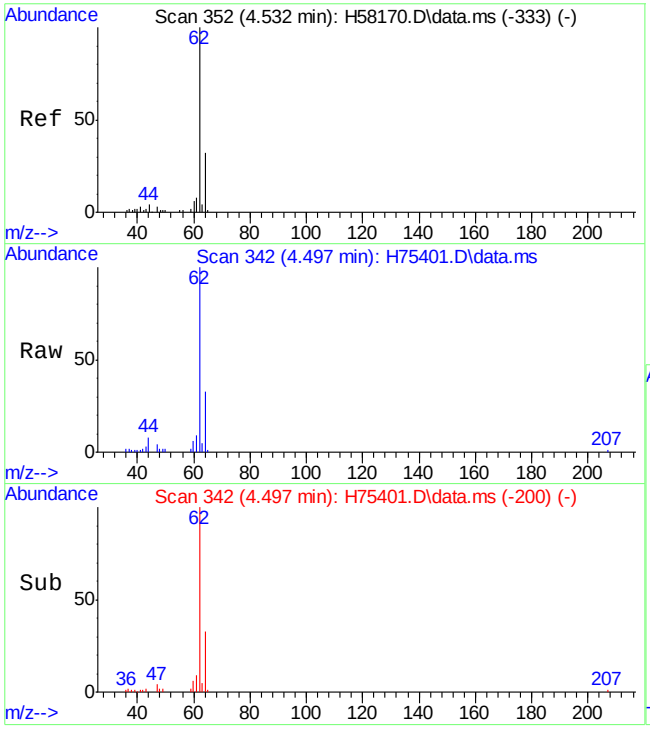


#6
chloromethane
Concen: 53.36 ug/L
RT: 4.275 min Scan# 279
Delta R.T. 0.012 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 50 Resp: 82917

Ion	Ratio	Lower	Upper
50	100		
52	29.5	1.7	61.7

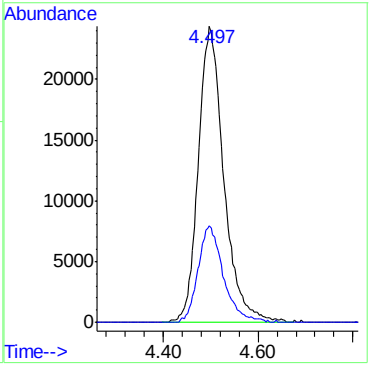


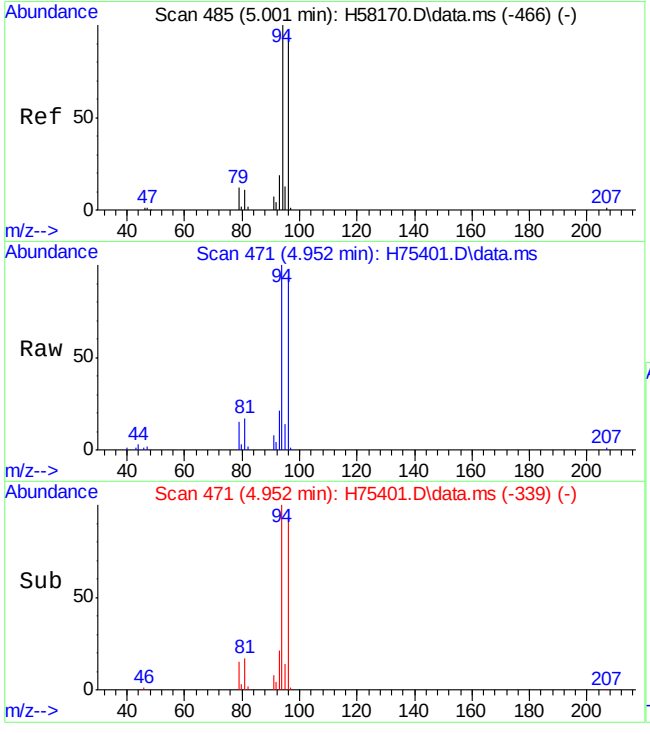


#7
vinyl chloride
Concen: 52.55 ug/L
RT: 4.497 min Scan# 342
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 62 Resp: 90739

Ion	Ratio	Lower	Upper
62	100		
64	32.5	3.2	63.2

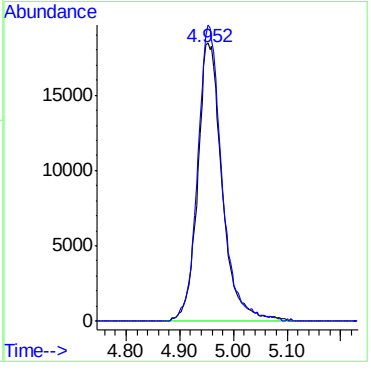




#8
bromomethane
Concen: 56.81 ug/L
RT: 4.952 min Scan# 471
Delta R.T. 0.005 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 96 Resp: 58352

Ion	Ratio	Lower	Upper
96	100		
94	106.3	72.8	132.8



7.4.4

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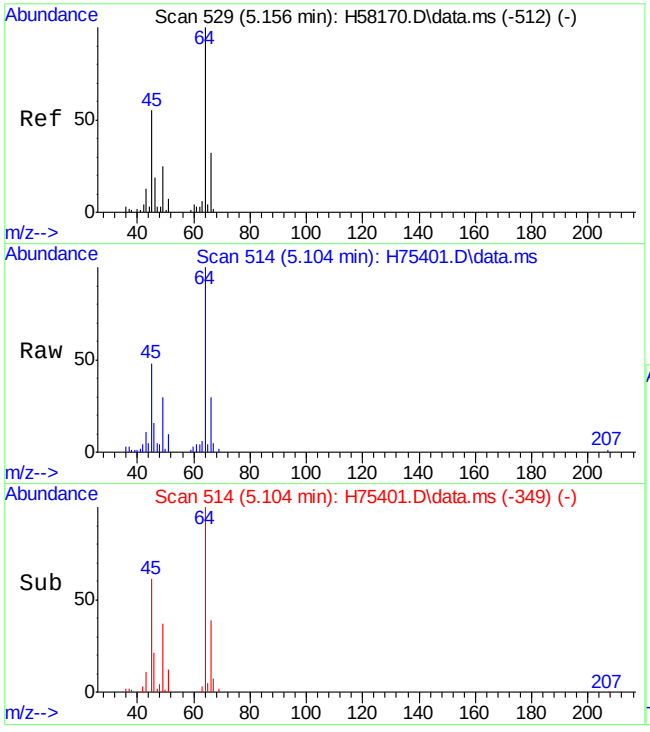
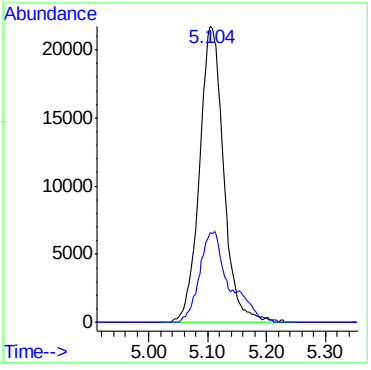
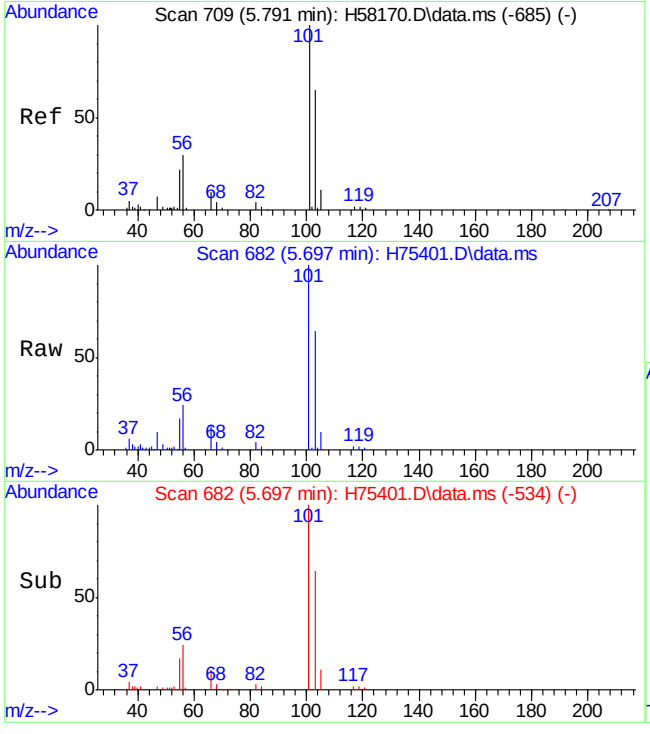


#9
chloroethane
Concen: 58.81 ug/L
RT: 5.104 min Scan# 514
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 64 Resp: 62084

Ion	Ratio	Lower	Upper
64	100		
66	30.3	0.3	60.3

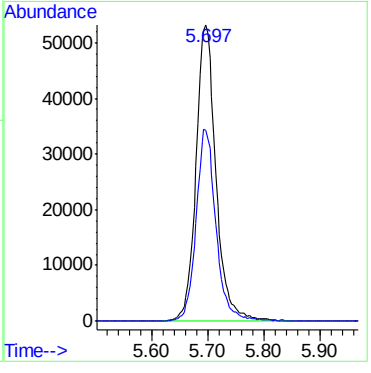


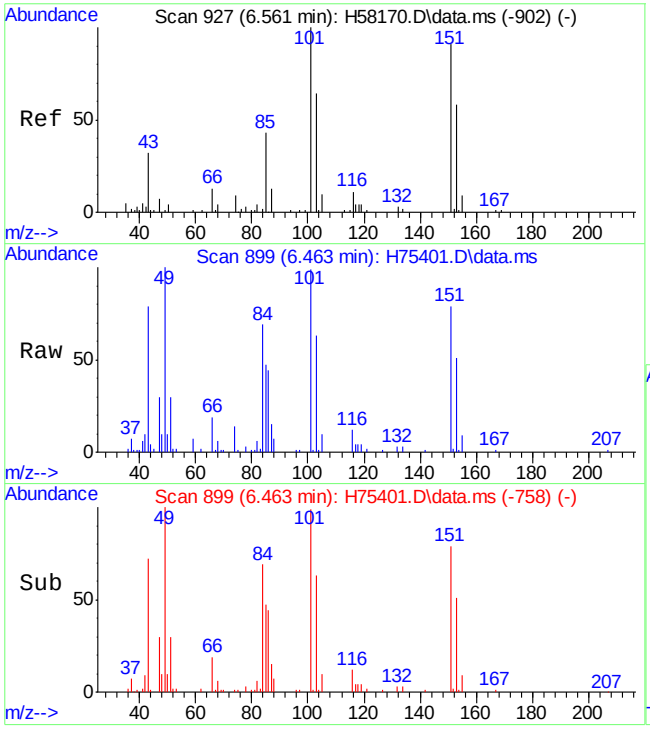


#11
trichlorofluoromethane
Concen: 50.97 ug/L
RT: 5.697 min Scan# 682
Delta R.T. 0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:101 Resp: 132086

Ion	Ratio	Lower	Upper
101	100		
103	64.5	33.5	93.5

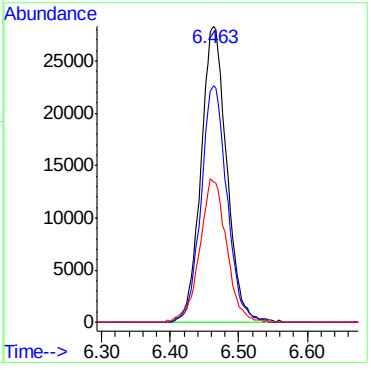


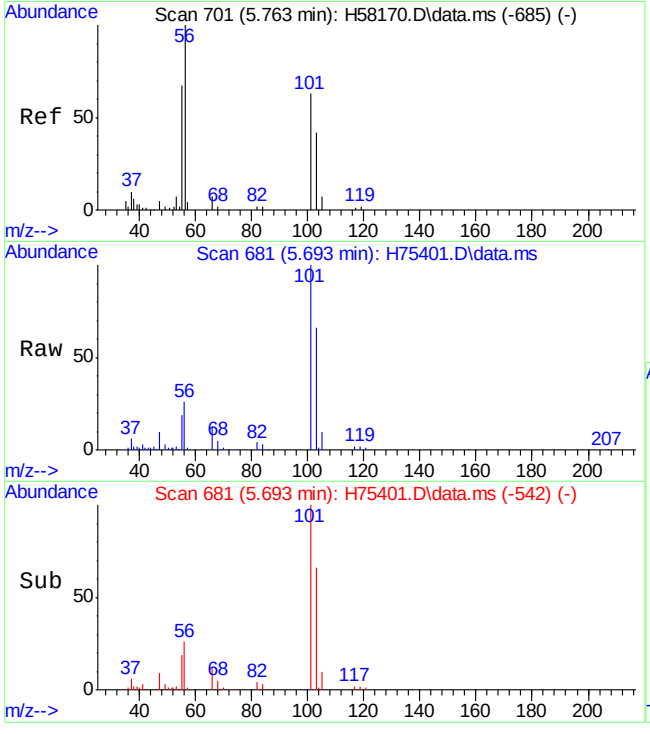


#12
freon-113
Concen: 44.93 ug/L
RT: 6.463 min Scan# 899
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:101 Resp: 73847

Ion	Ratio	Lower	Upper
101	100		
151	79.8	57.8	117.8
85	47.4	10.8	70.8

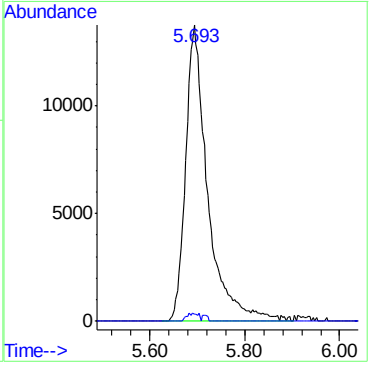




#13
acrolein
Concen: 595.53 ug/L
RT: 5.693 min Scan# 681
Delta R.T. -0.010 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 56 Resp: 44288

Ion	Ratio	Lower	Upper
56	100		
52	2.2	0.0	32.7



7.4.4

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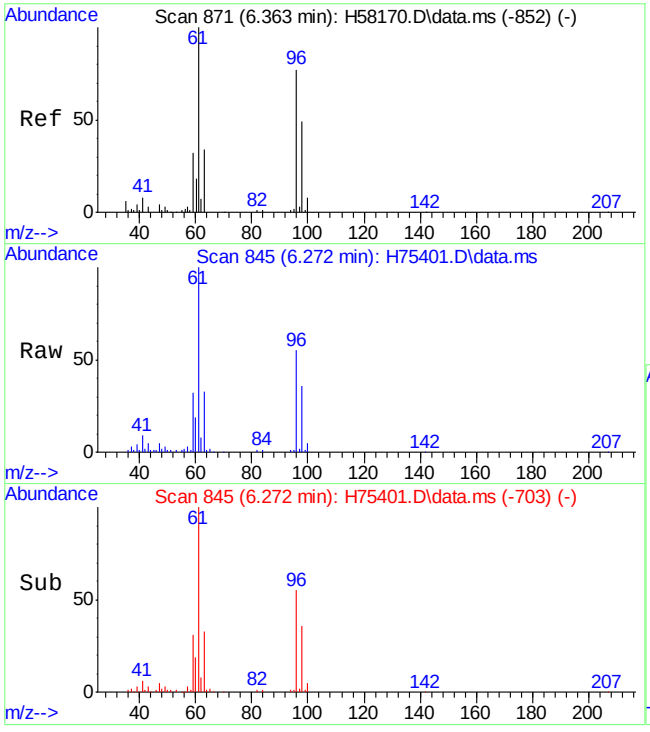
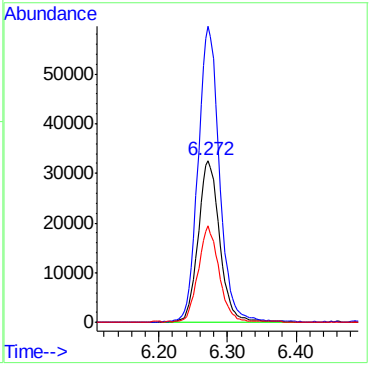
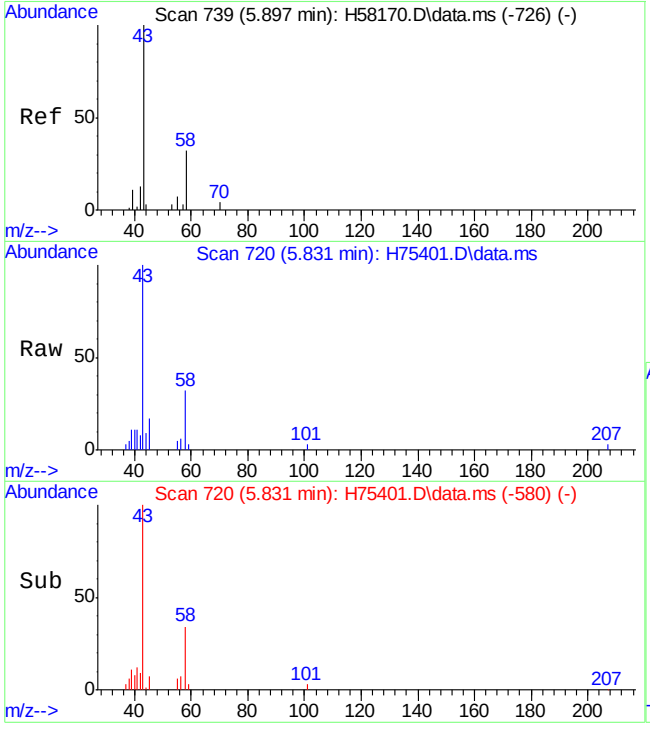


#14
1,1-dichloroethene
Concen: 49.68 ug/L
RT: 6.272 min Scan# 845
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 96 Resp: 70743

Ion	Ratio	Lower	Upper
96	100		
61	183.2	114.6	174.6#
63	59.9	18.4	78.4

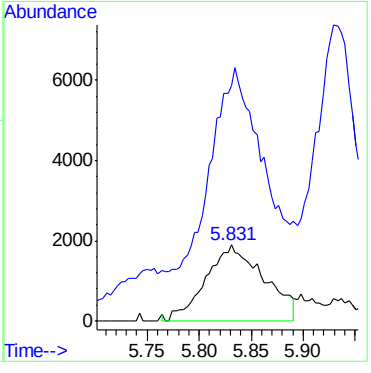


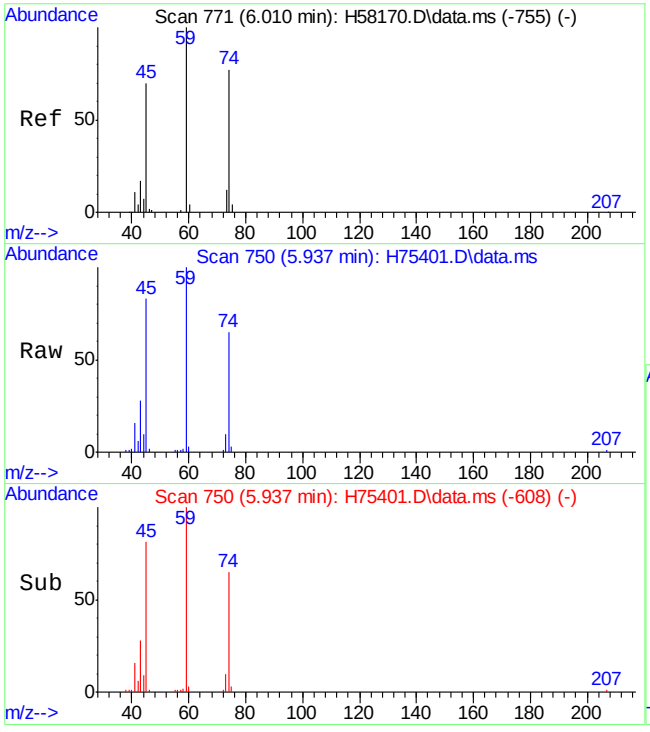


#15
acetone
Concen: 41.80 ug/L m
RT: 5.831 min Scan# 720
Delta R.T. -0.006 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 58 Resp: 7370

Ion	Ratio	Lower	Upper
58	100		
43	309.2	270.8	330.8

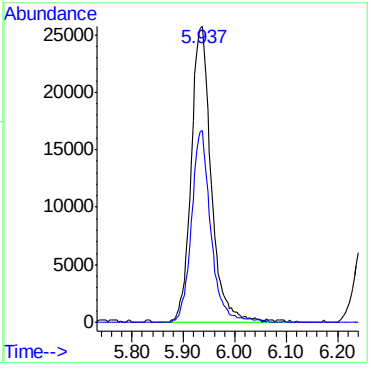


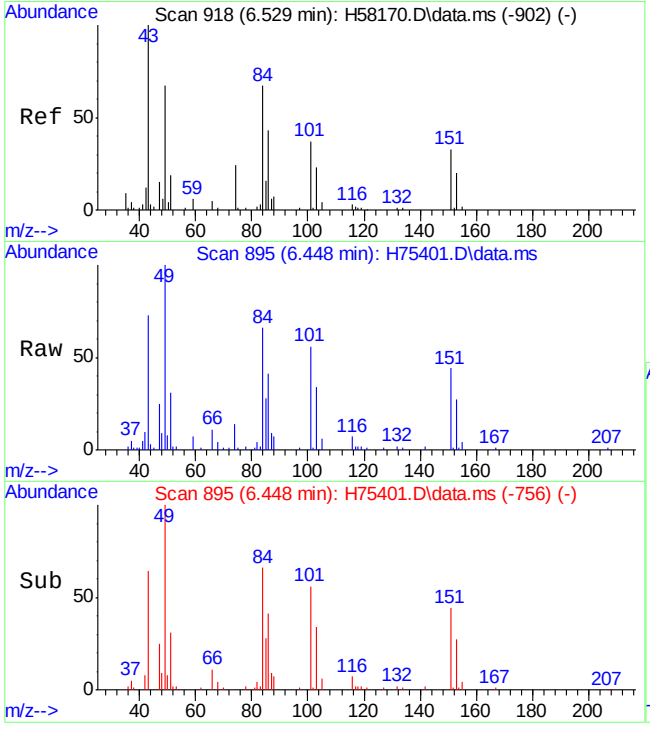


#16
ethyl ether
Concen: 49.19 ug/L
RT: 5.937 min Scan# 750
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 59 Resp: 69919

Ion	Ratio	Lower	Upper
59	100		
74	64.9	45.0	105.0

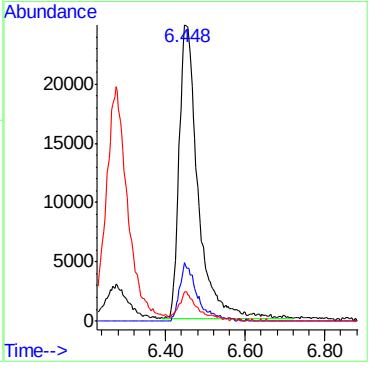




#17
methyl acetate
Concen: 50.52 ug/L
RT: 6.448 min Scan# 895
Delta R.T. -0.010 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 81817

Ion	Ratio	Lower	Upper
43	100		
74	20.0	5.4	45.4
59	10.0	0.0	33.3



7.4.4

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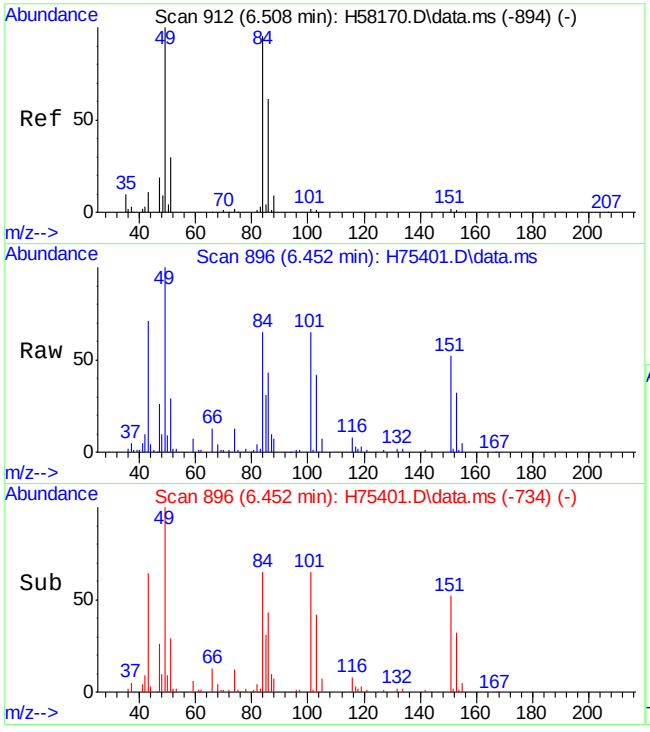
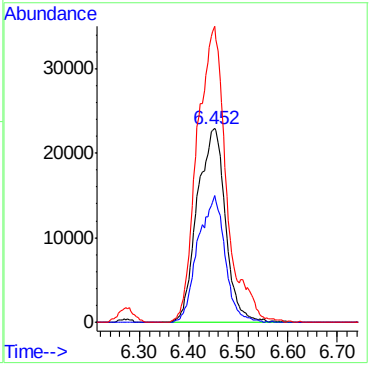
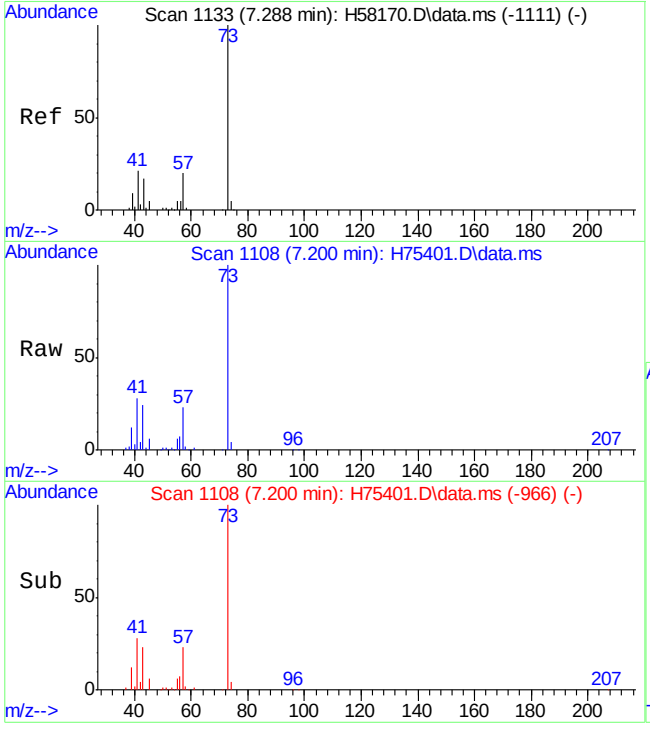


#18
methylene chloride
Concen: 50.33 ug/L
RT: 6.452 min Scan# 896
Delta R.T. 0.012 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 84 Resp: 90666

Ion	Ratio	Lower	Upper
84	100		
86	65.5	28.8	88.8
49	152.9	77.5	137.5#

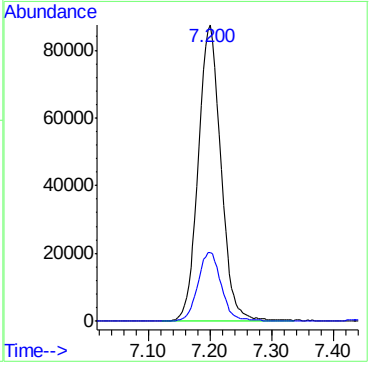


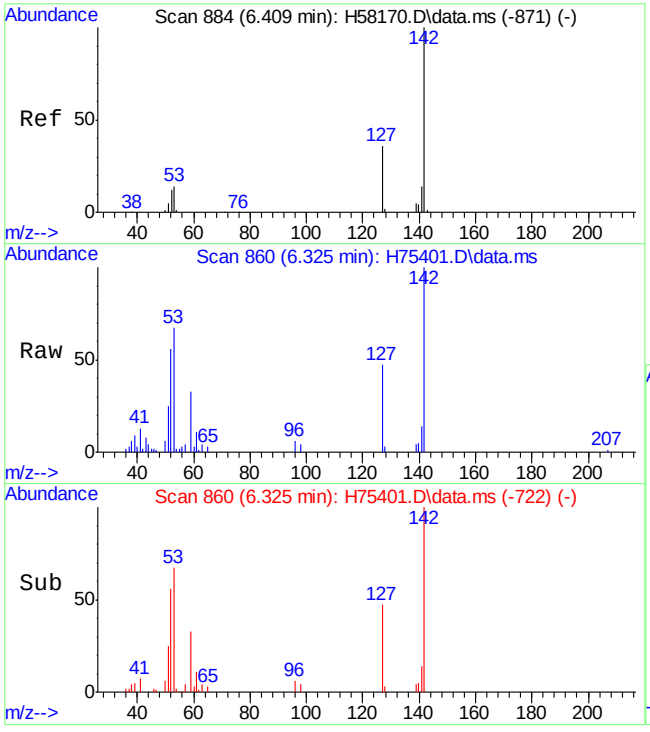


#19
methyl tert butyl ether
Concen: 49.81 ug/L
RT: 7.200 min Scan# 1108
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 73 Resp: 220505

Ion	Ratio	Lower	Upper
73	100		
57	23.0	0.0	48.6

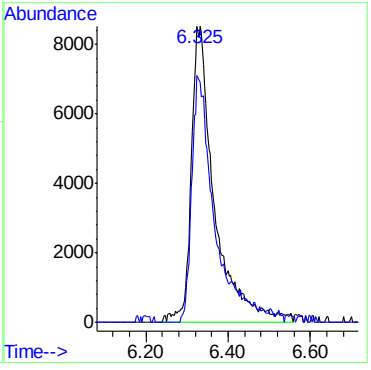


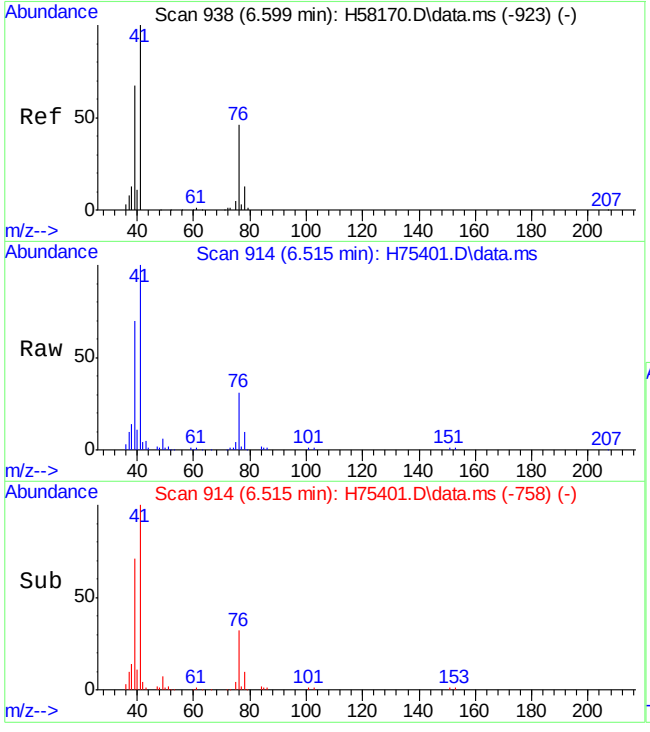


#20
acrylonitrile
Concen: 51.53 ug/L
RT: 6.325 min Scan# 860
Delta R.T. -0.013 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 53 Resp: 33549

Ion	Ratio	Lower	Upper
53	100		
52	83.5	54.8	114.8

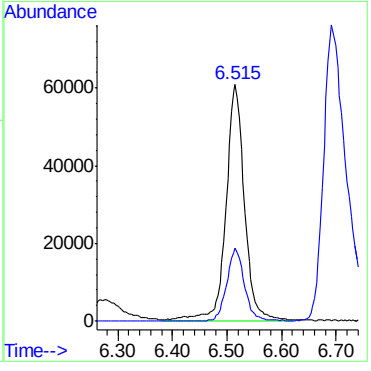


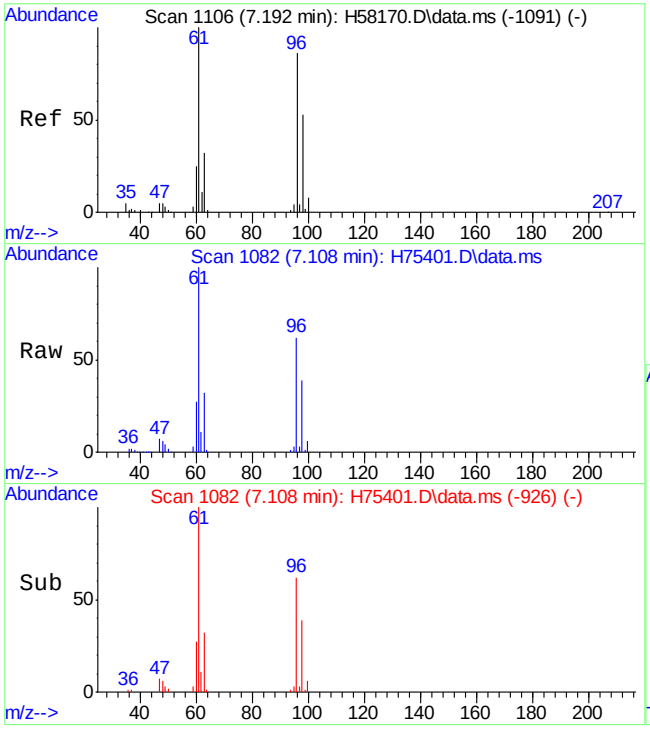


#21
allyl chloride
Concen: 49.07 ug/L m
RT: 6.515 min Scan# 914
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 41 Resp: 144283

Ion	Ratio	Lower	Upper
41	100		
76	31.0	7.8	67.8

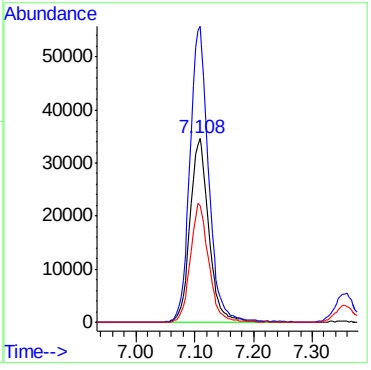


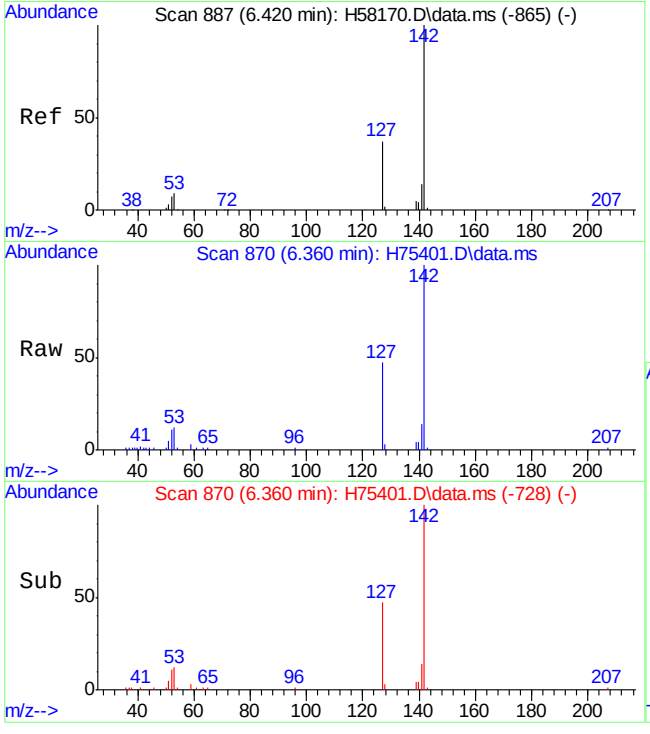


#22
trans-1,2-dichloroethene
Concen: 48.30 ug/L
RT: 7.108 min Scan# 1082
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 96 Resp: 76617

Ion	Ratio	Lower	Upper
96	100		
61	160.4	99.9	159.9#
98	63.3	34.7	94.7

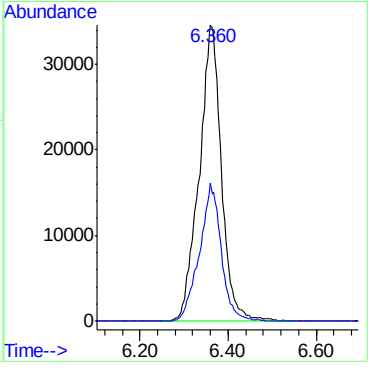




#23
iodomethane
Concen: 47.47 ug/L
RT: 6.360 min Scan# 870
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:142 Resp: 121047

Ion	Ratio	Lower	Upper
142	100		
127	46.5	20.4	80.4



7.4.4

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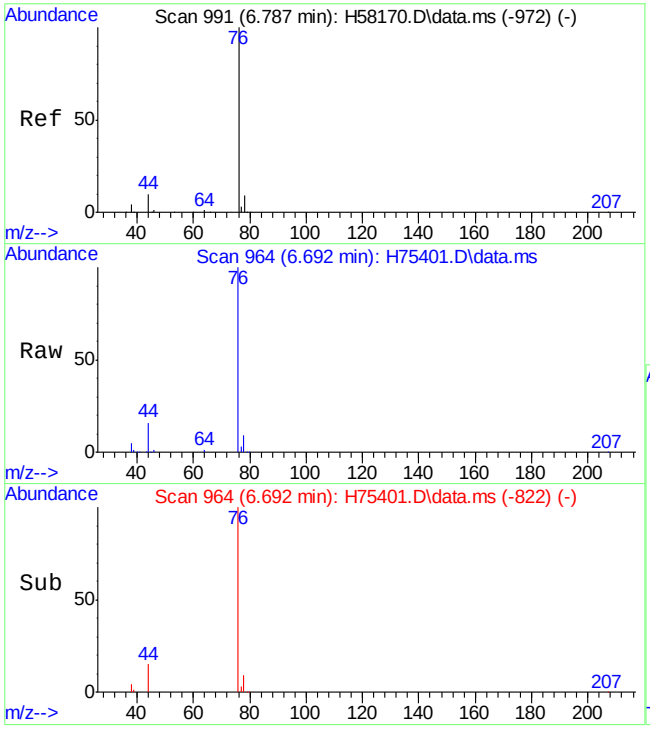
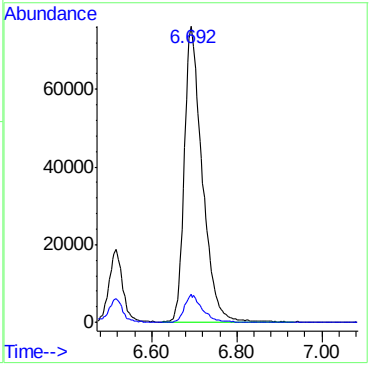
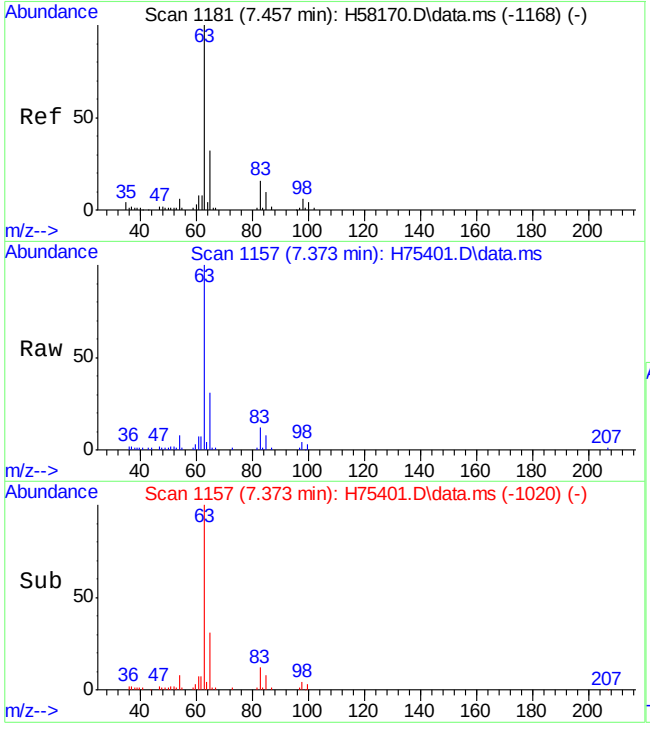


#24
carbon disulfide
Concen: 43.04 ug/L
RT: 6.692 min Scan# 964
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 76 Resp: 224036

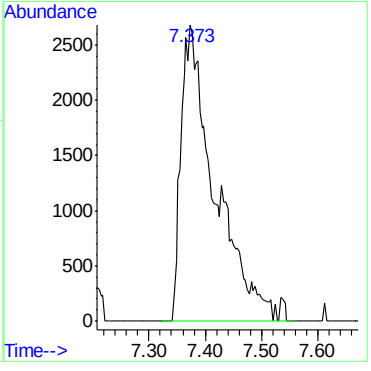
Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	40.1

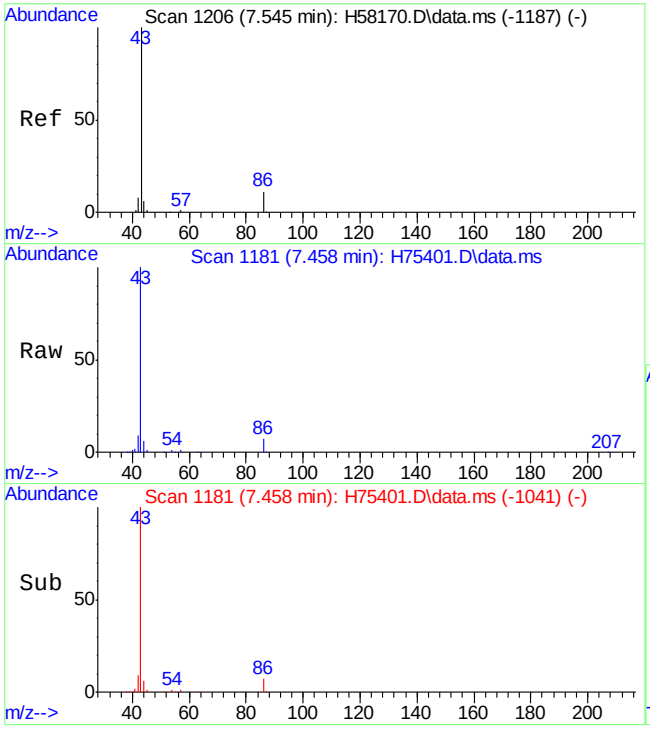




#25
propionitrile
Concen: 47.77 ug/L
RT: 7.373 min Scan# 1157
Delta R.T. -0.016 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 54 Resp: 11279

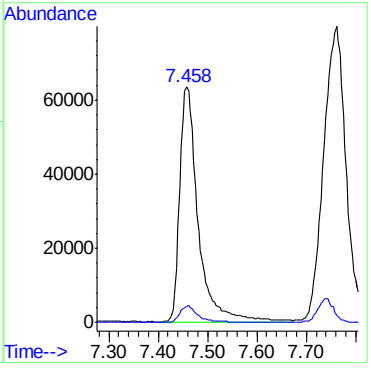


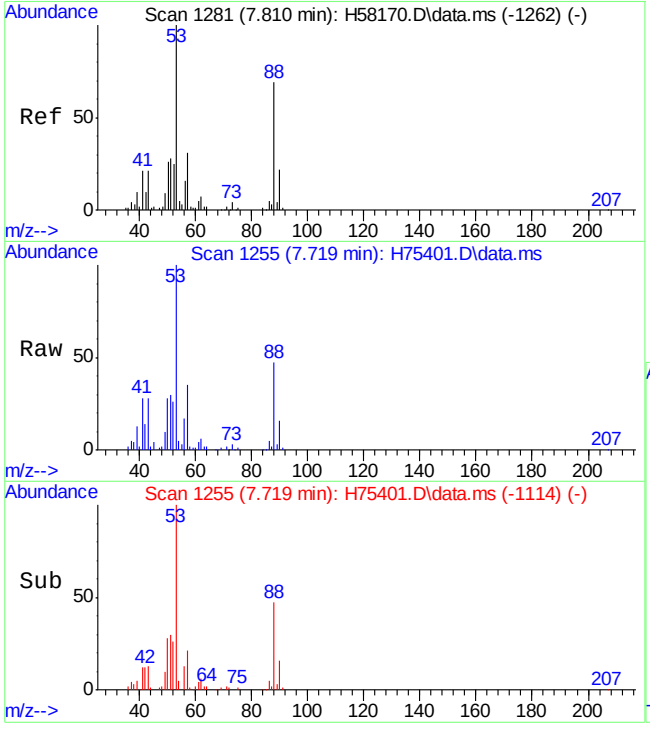


#26
vinyl acetate
Concen: 53.40 ug/L
RT: 7.458 min Scan# 1181
Delta R.T. -0.006 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 166770

Ion	Ratio	Lower	Upper
43	100		
86	6.5	0.0	39.7

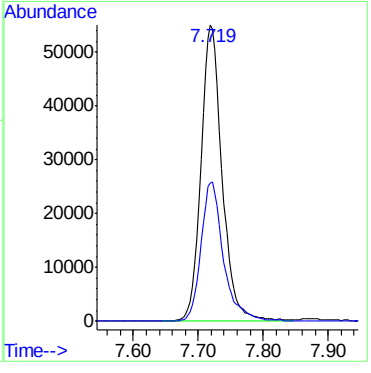




#27
chloroprene
Concen: 45.40 ug/L
RT: 7.719 min Scan# 1255
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 53 Resp: 124456

Ion	Ratio	Lower	Upper
53	100		
88	46.8	19.0	79.0



7.4.4

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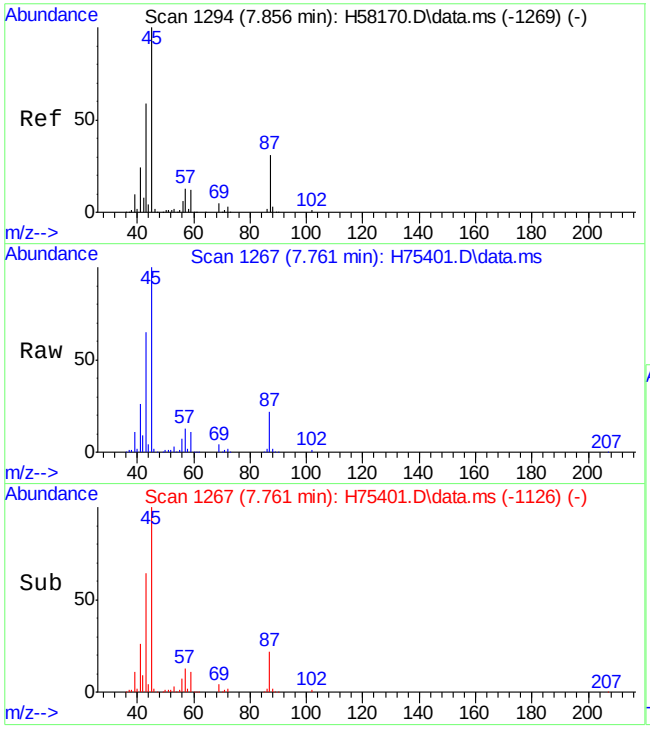
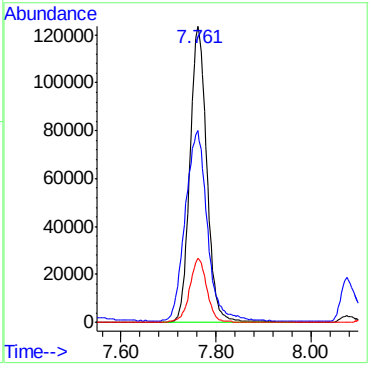
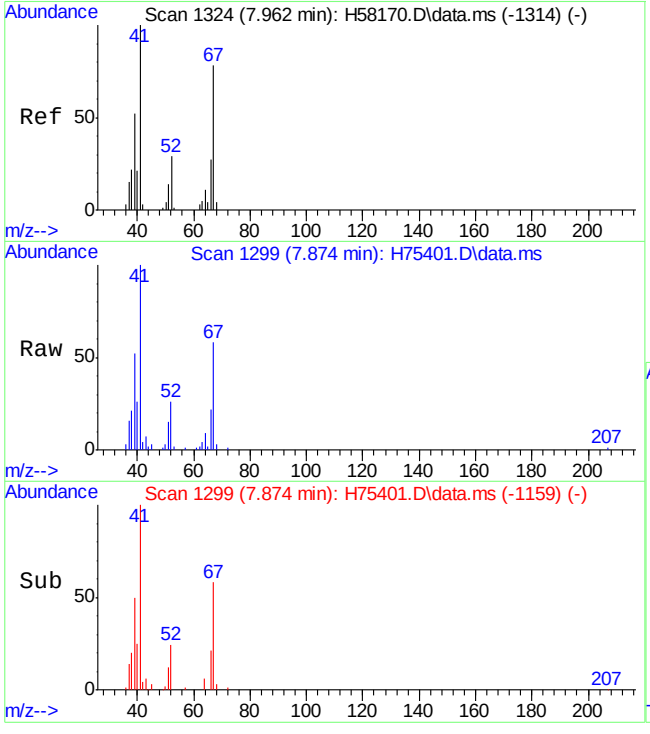


#28
di-isopropyl ether
Concen: 51.92 ug/L
RT: 7.761 min Scan# 1267
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 45 Resp: 303452

Ion	Ratio	Lower	Upper
45	100		
43	64.3	39.0	99.0
87	21.7	2.5	62.5

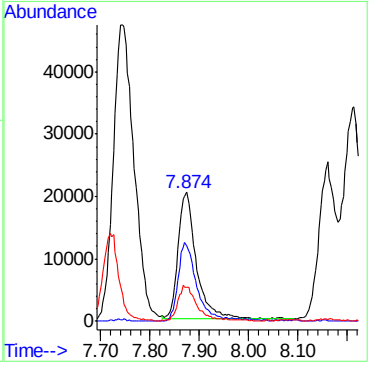


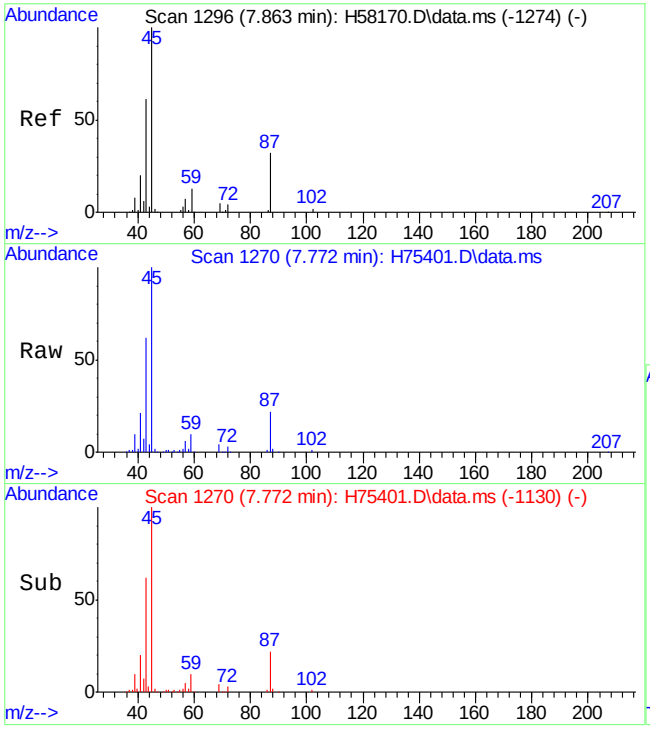


#29
methacrylonitrile
Concen: 46.74 ug/L
RT: 7.874 min Scan# 1299
Delta R.T. -0.006 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 41 Resp: 52496

Ion	Ratio	Lower	Upper
41	100		
67	59.0	28.1	88.1
52	25.4	0.0	59.4

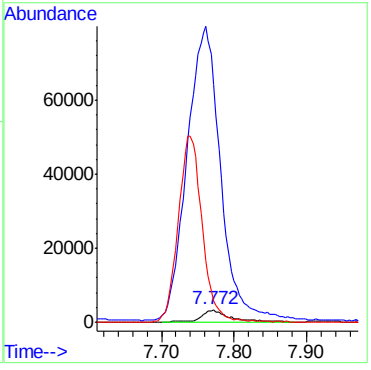


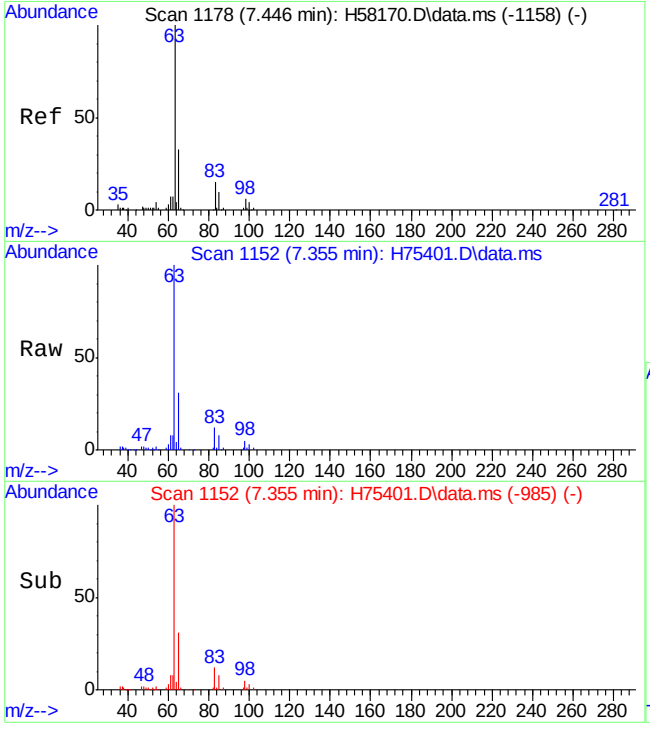


#30
2-butanone
Concen: 48.20 ug/L
RT: 7.772 min Scan# 1270
Delta R.T. -0.006 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 72 Resp: 9581

Ion	Ratio	Lower	Upper
72	100		
43	1814.7	1755.5	1815.5
57	168.4	164.5	224.5

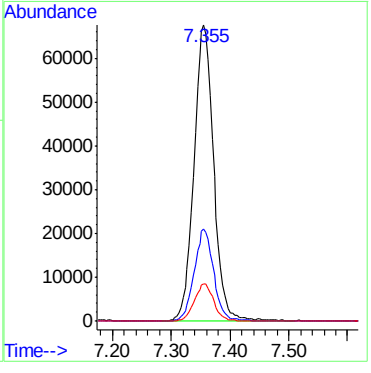




#31
1,1-dichloroethane
Concen: 48.21 ug/L
RT: 7.355 min Scan# 1152
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 63 Resp: 156469

Ion	Ratio	Lower	Upper
63	100		
65	30.9	2.1	62.1
83	12.4	0.0	47.3



7.4.4

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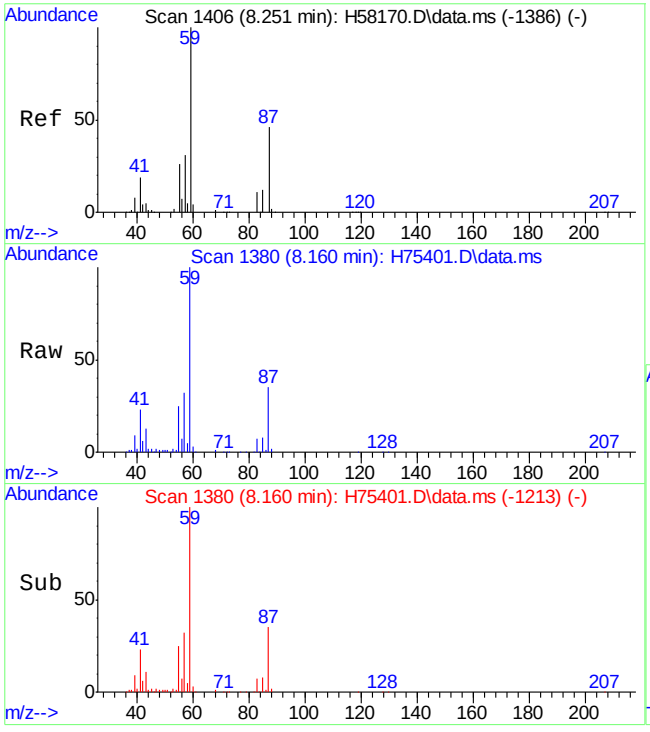
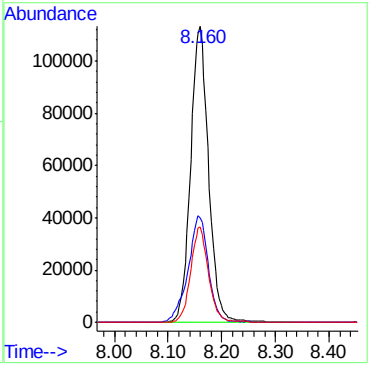
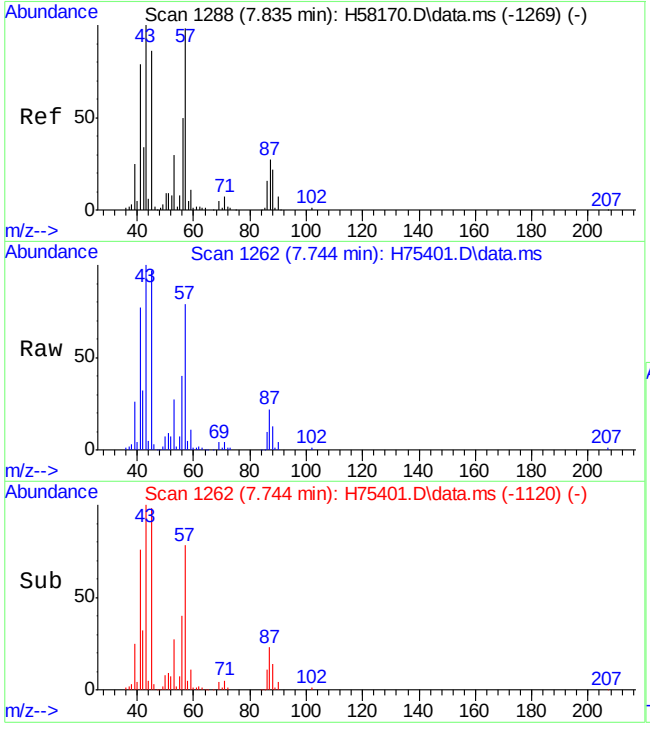


#32
tert-butyl ethyl ether
Concen: 48.66 ug/L
RT: 8.160 min Scan# 1380
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 59 Resp: 264497

Ion	Ratio	Lower	Upper
59	100		
87	35.4	13.5	73.5
57	32.2	0.0	58.1

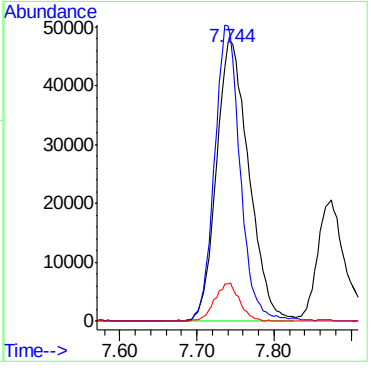


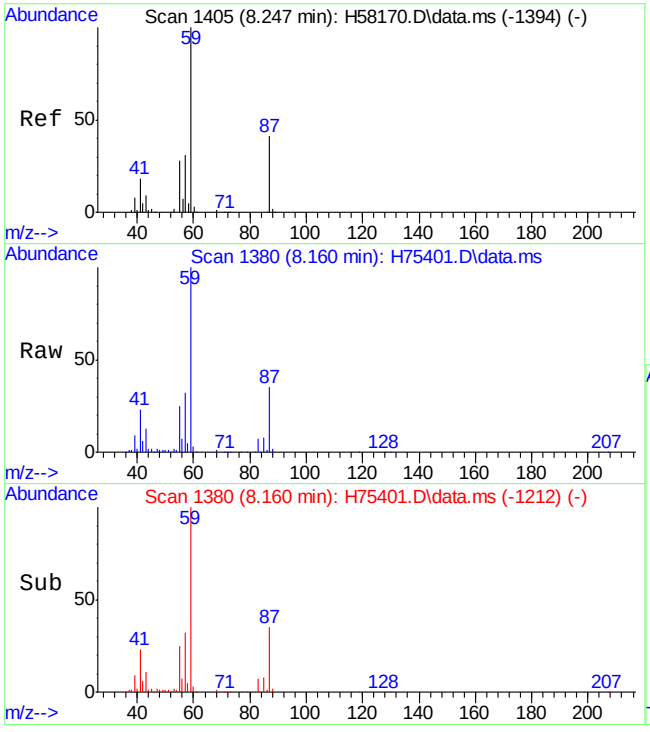


#33
Hexane
Concen: 46.51 ug/L
RT: 7.744 min Scan# 1262
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 41 Resp: 138709

Ion	Ratio	Lower	Upper
41	100		
57	83.7	60.5	90.7
86	10.4	10.4	15.6

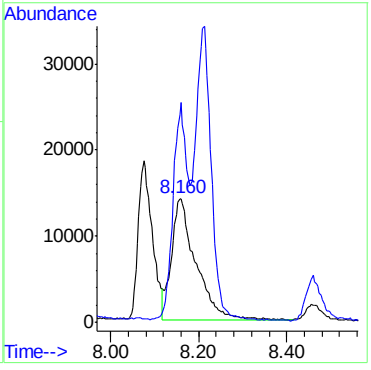


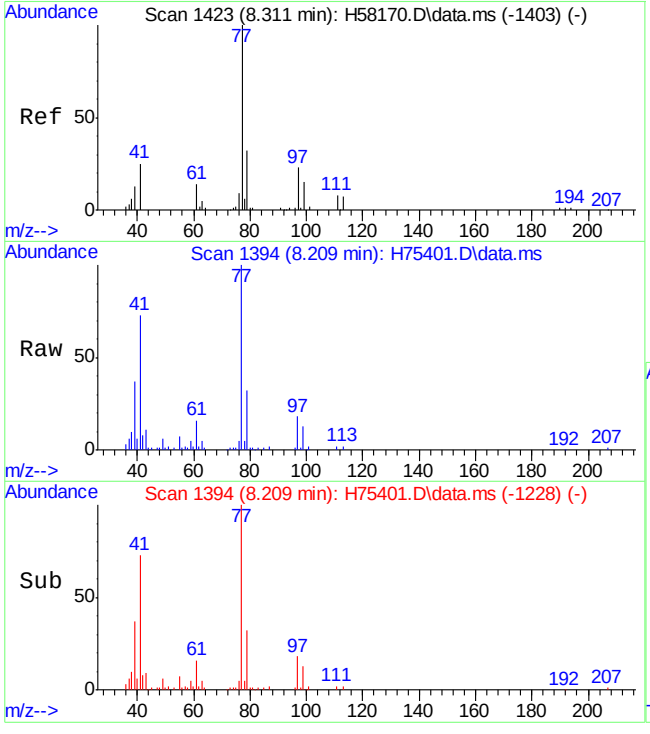


#34
isobutyl alcohol
Concen: 386.14 ug/L
RT: 8.160 min Scan# 1380
Delta R.T. 0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 54171

Ion	Ratio	Lower	Upper
43	100		
41	179.4	115.6	175.6#

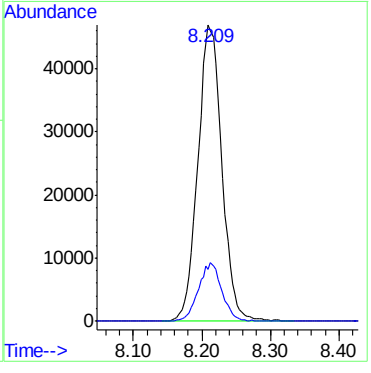




#35
2,2-dichloropropane
Concen: 47.61 ug/L
RT: 8.209 min Scan# 1394
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 77 Resp: 113729

Ion	Ratio	Lower	Upper
77	100		
97	17.6	0.0	51.6



7.4.4

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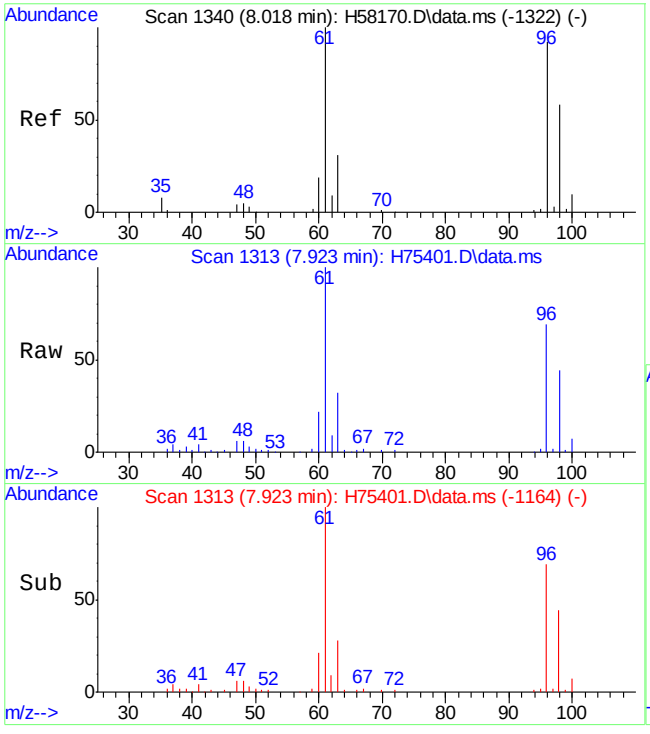
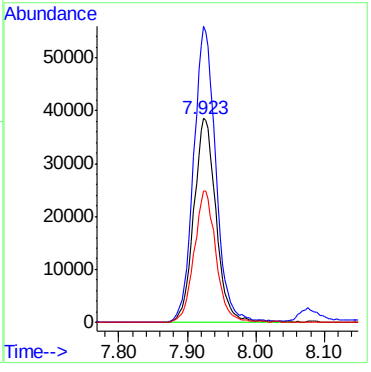
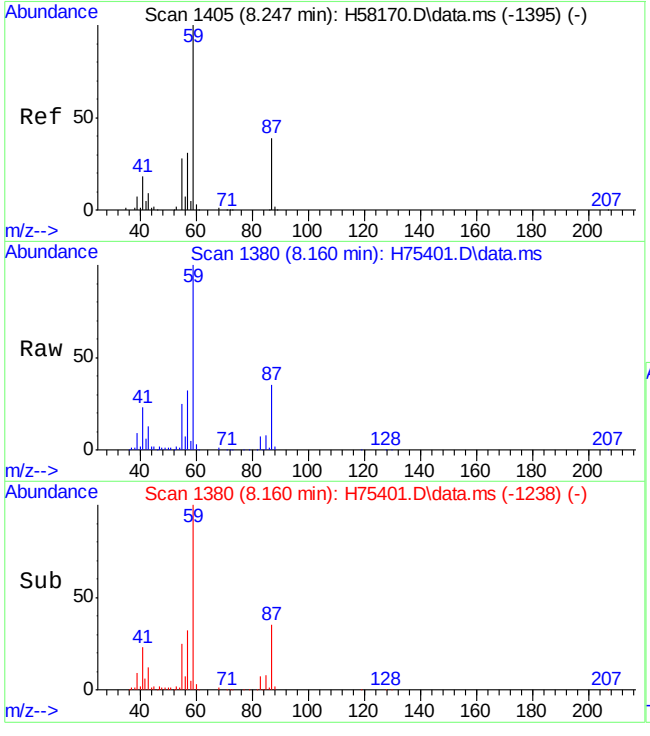


#36
cis-1,2-dichloroethene
Concen: 49.87 ug/L
RT: 7.923 min Scan# 1313
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 96 Resp: 86989

Ion	Ratio	Lower	Upper
96	100		
61	145.4	90.6	150.6
98	64.5	35.0	95.0

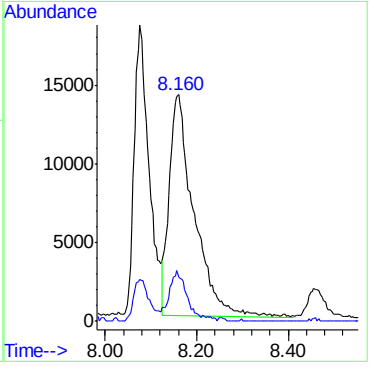




#37
ethyl acetate
Concen: 74.72 ug/L
RT: 8.160 min Scan# 1380
Delta R.T. 0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 52820

Ion	Ratio	Lower	Upper
43	100		
45	19.9	0.0	51.5



7.4.4

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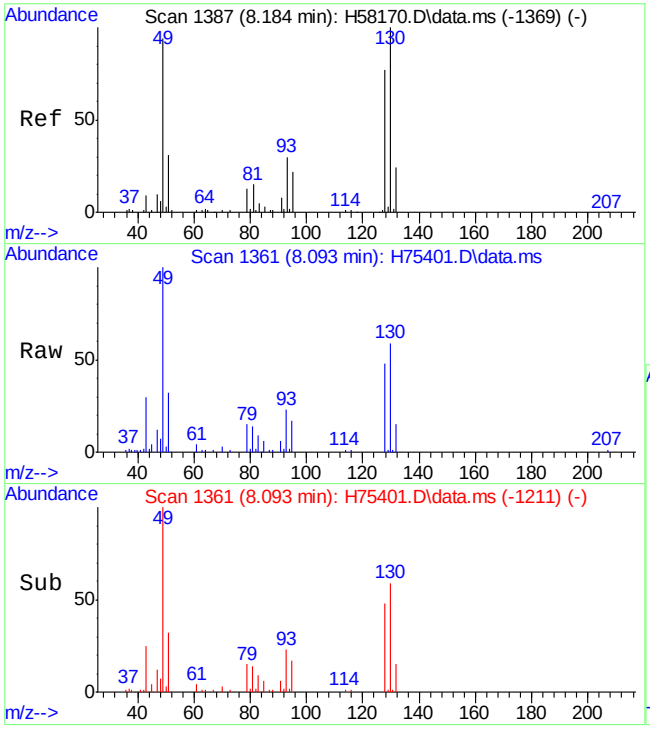
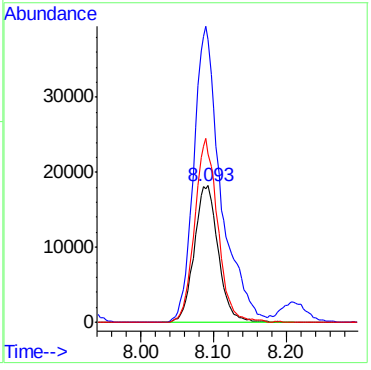
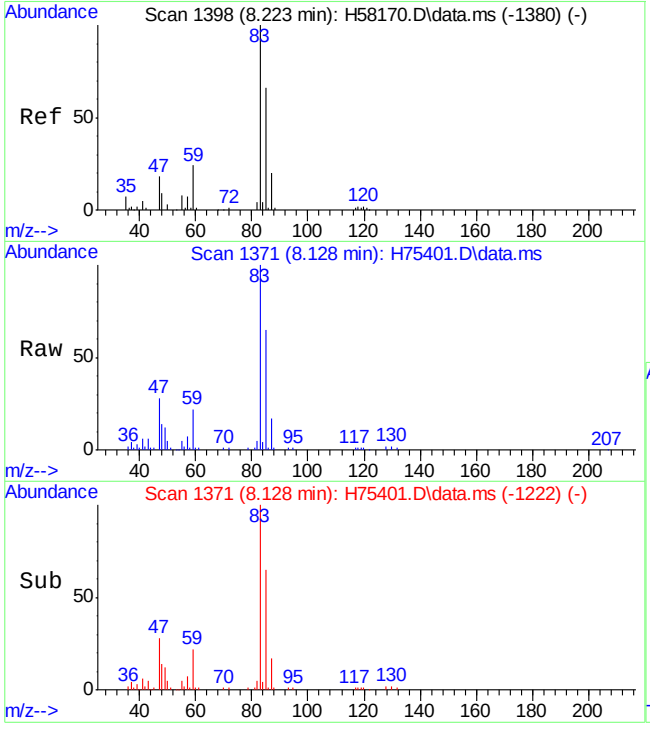


#38
bromochloromethane
Concen: 49.24 ug/L
RT: 8.093 min Scan# 1361
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:128 Resp: 41902

Ion	Ratio	Lower	Upper
128	100		
49	207.0	72.6	132.6#
130	124.7	102.2	162.2

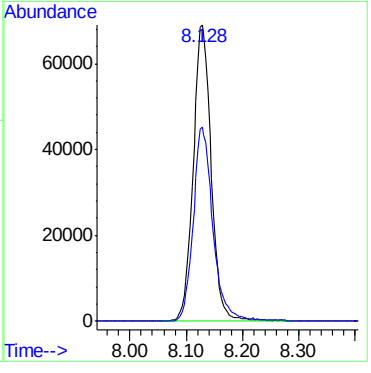


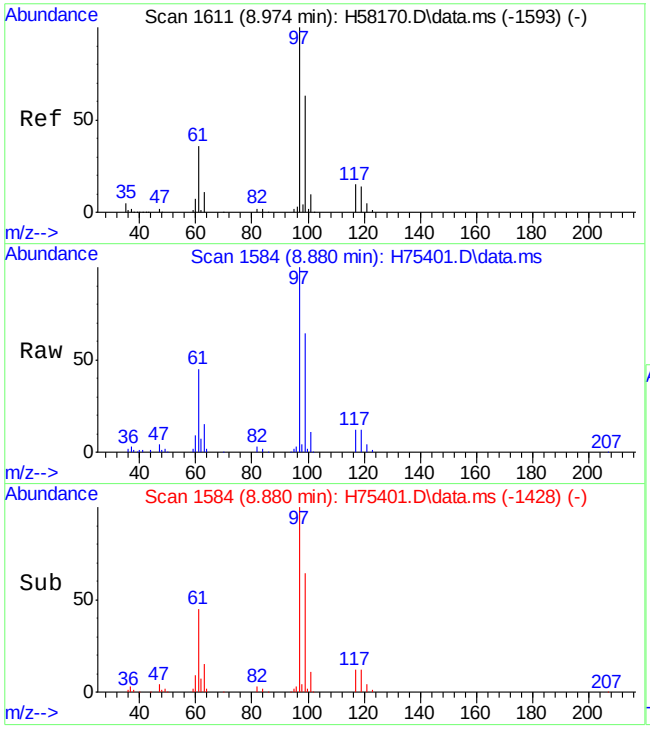


#39
chloroform
Concen: 49.26 ug/L
RT: 8.128 min Scan# 1371
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 83 Resp: 153638

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.0	95.0

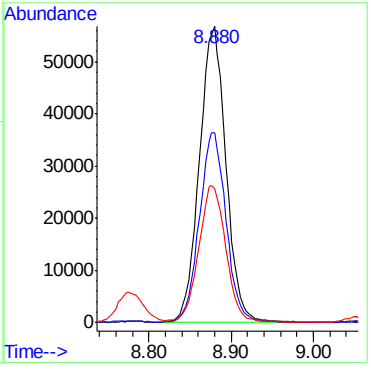


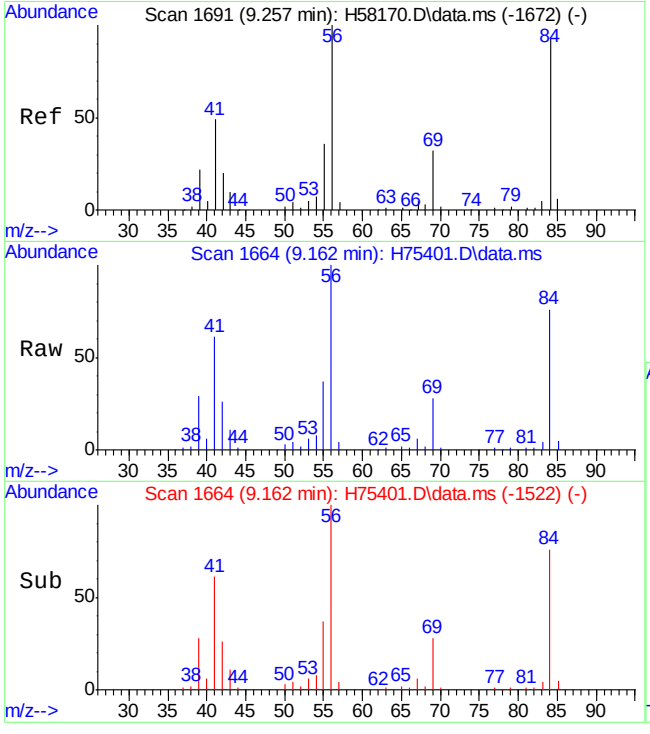


#41
1,1,1-trichloroethane
Concen: 51.41 ug/L
RT: 8.880 min Scan# 1584
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 97 Resp: 127636

Ion	Ratio	Lower	Upper
97	100		
99	64.0	32.9	92.9
61	45.1	5.4	65.4

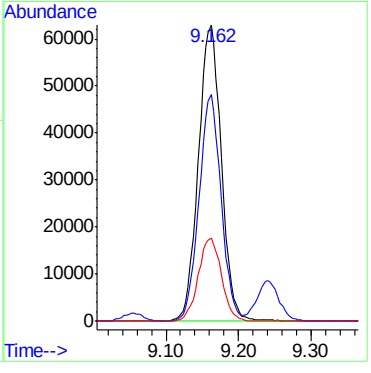




#43
cyclohexane
Concen: 44.50 ug/L
RT: 9.162 min Scan# 1664
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 56 Resp: 137795

Ion	Ratio	Lower	Upper
56	100		
84	76.5	81.1	121.1#
69	28.2	13.4	53.4



7.4.4

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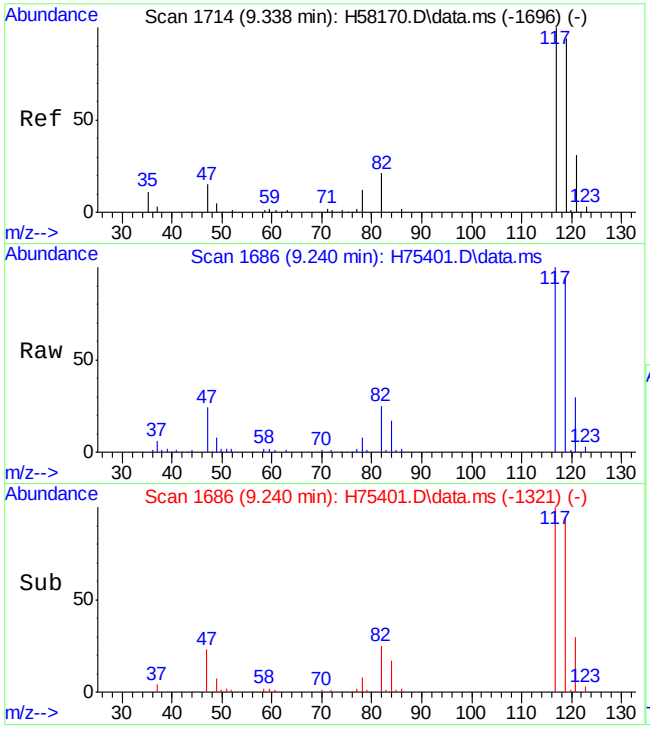
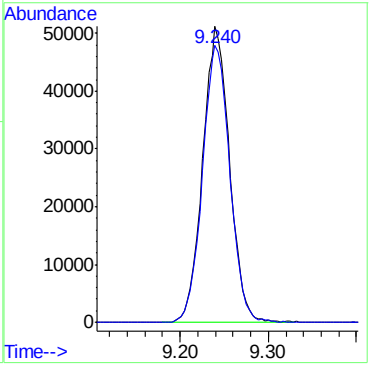
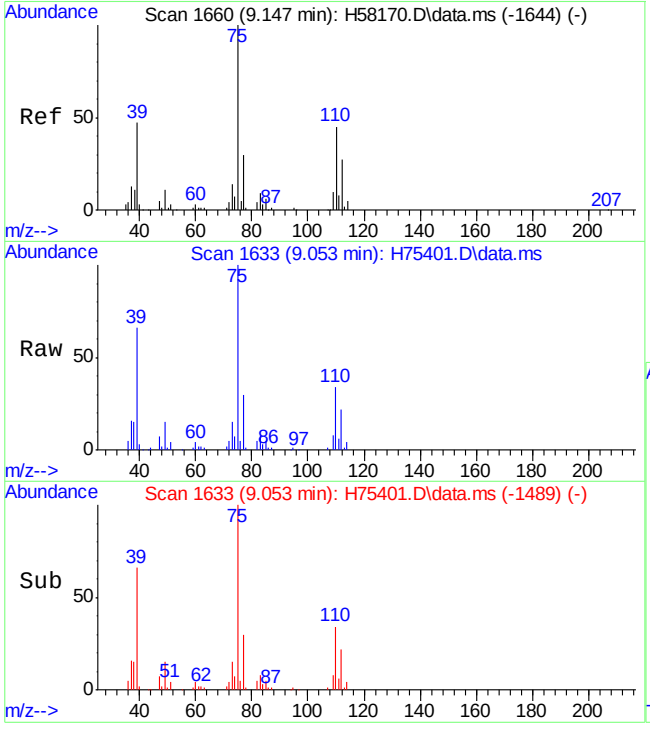


#44
carbon tetrachloride
Concen: 52.56 ug/L
RT: 9.240 min Scan# 1686
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:117 Resp: 107599

Ion	Ratio	Lower	Upper
117	100		
119	93.5	69.0	129.0

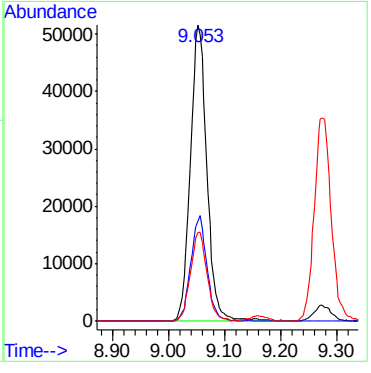




#45
1,1-dichloropropene
Concen: 46.68 ug/L
RT: 9.053 min Scan# 1633
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 75 Resp: 105410

Ion	Ratio	Lower	Upper
75	100		
110	33.9	12.6	72.6
77	30.1	1.8	61.8



7.4.4

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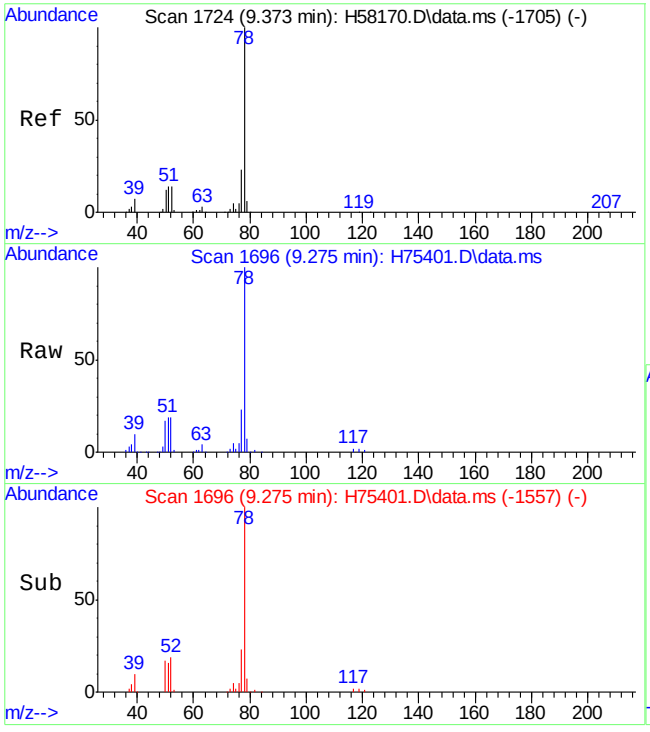
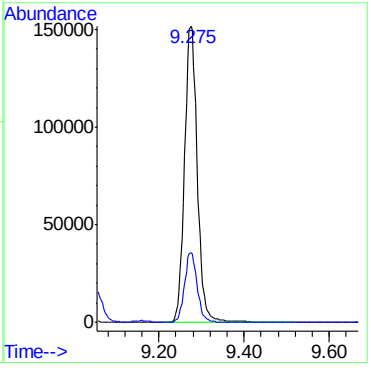
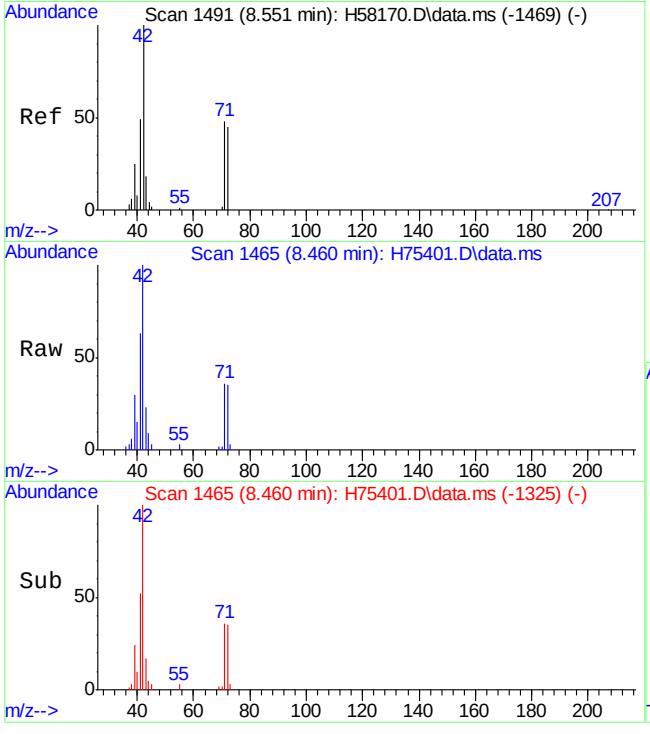


#46
benzene
Concen: 47.72 ug/L
RT: 9.275 min Scan# 1696
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 78 Resp: 317020

Ion	Ratio	Lower	Upper
78	100		
77	23.4	0.0	53.5

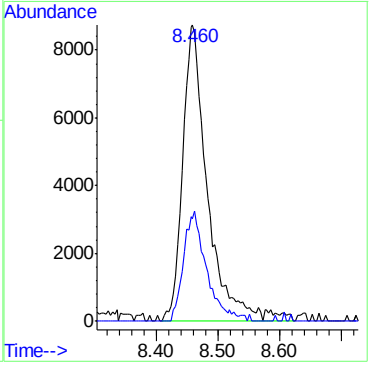




#47
tetrahydrofuran
Concen: 44.99 ug/L
RT: 8.460 min Scan# 1465
Delta R.T. -0.006 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 42 Resp: 24894

Ion	Ratio	Lower	Upper
42	100		
72	34.6	12.6	72.6



7.4.4

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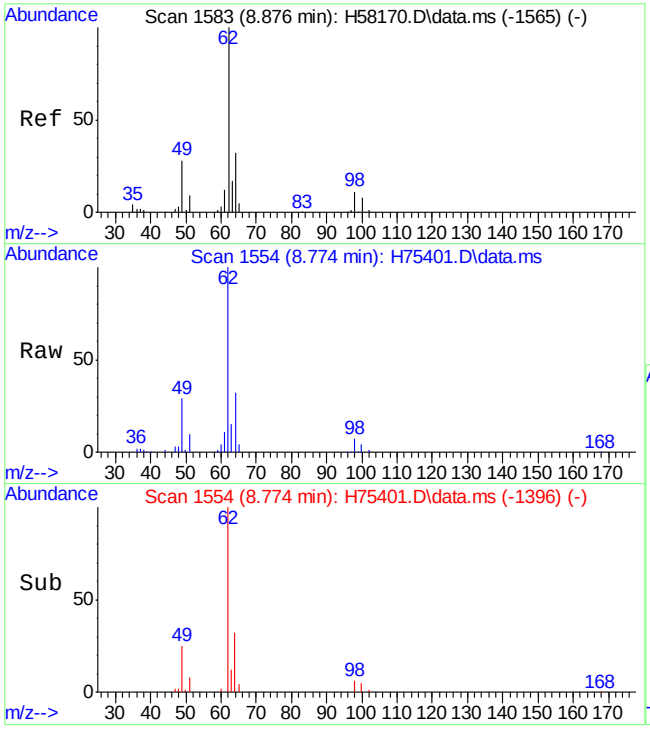
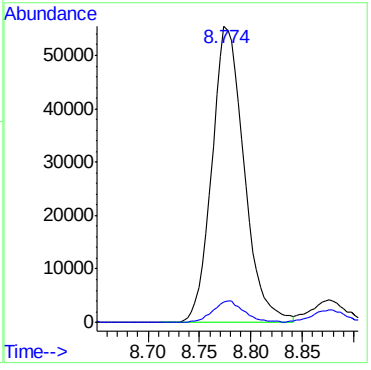
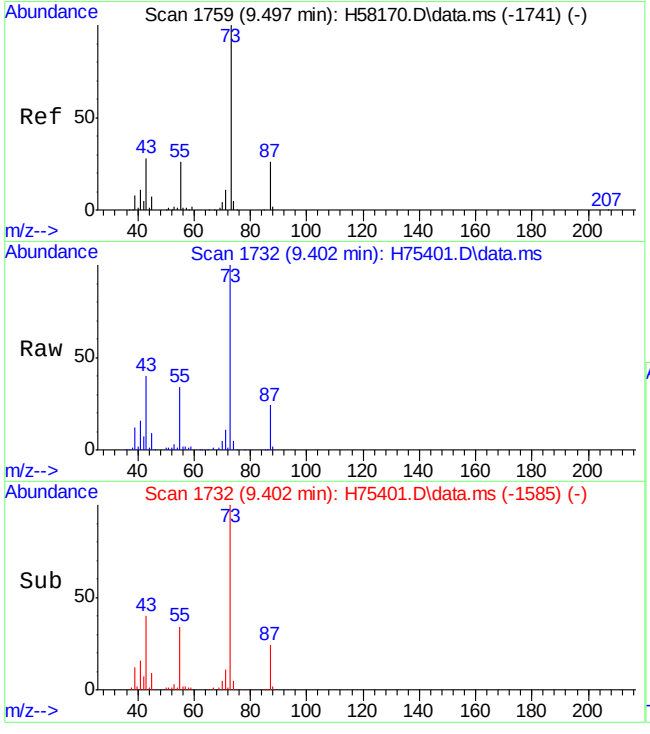


#48
1,2-dichloroethane
Concen: 48.67 ug/L
RT: 8.774 min Scan# 1554
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 62 Resp: 120625

Ion	Ratio	Lower	Upper
62	100		
98	6.9	0.0	37.4

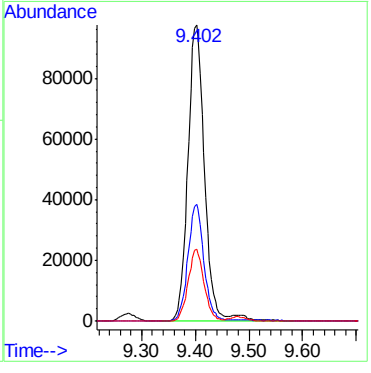




#49
tert-amyl methyl ether
Concen: 46.99 ug/L
RT: 9.402 min Scan# 1732
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 73 Resp: 212176

Ion	Ratio	Lower	Upper
73	100		
43	39.6	3.8	63.8
87	24.3	0.0	59.9



7.4.4

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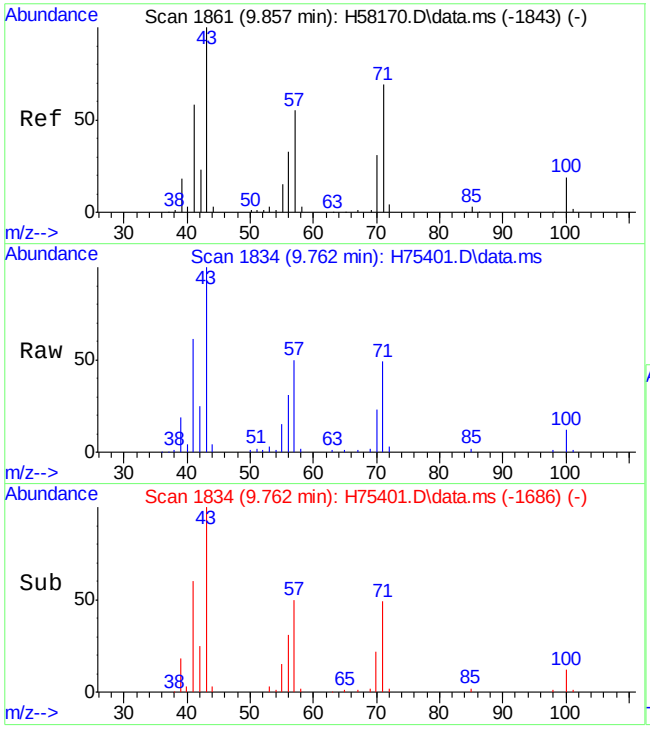
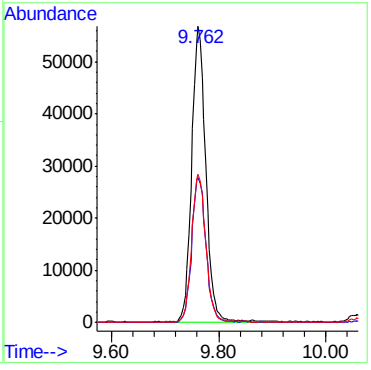
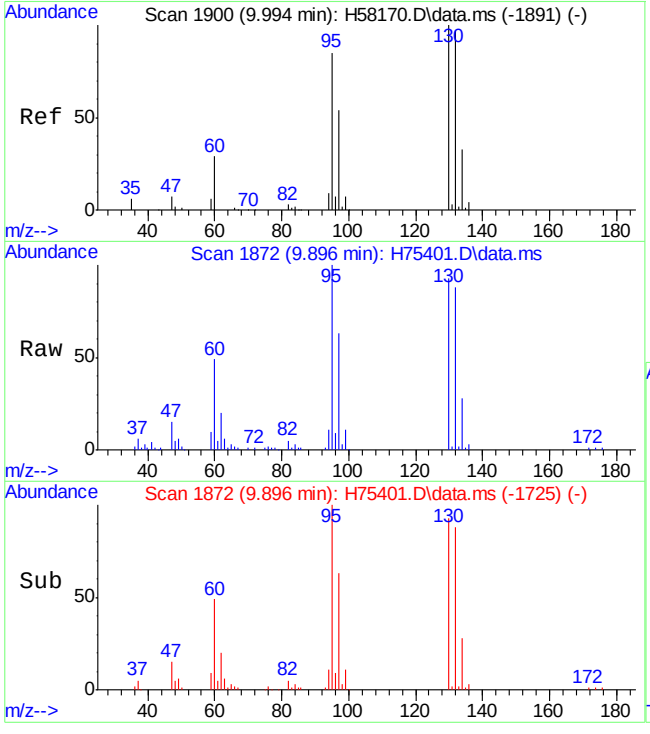


#50
heptane
Concen: 44.96 ug/L
RT: 9.762 min Scan# 1834
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 105131

Ion	Ratio	Lower	Upper
43	100		
71	48.8	31.4	91.4
57	50.1	21.5	81.5

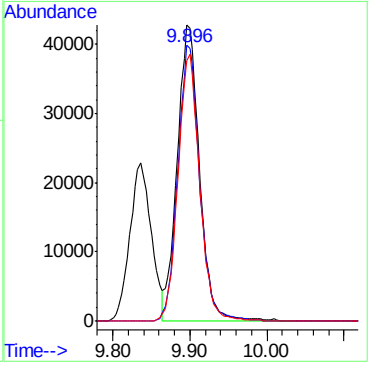




#51
trichloroethene
Concen: 49.35 ug/L
RT: 9.896 min Scan# 1872
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 95 Resp: 85903

Ion	Ratio	Lower	Upper
95	100		
130	93.2	83.0	143.0
132	88.0	82.2	142.2



7.4.4

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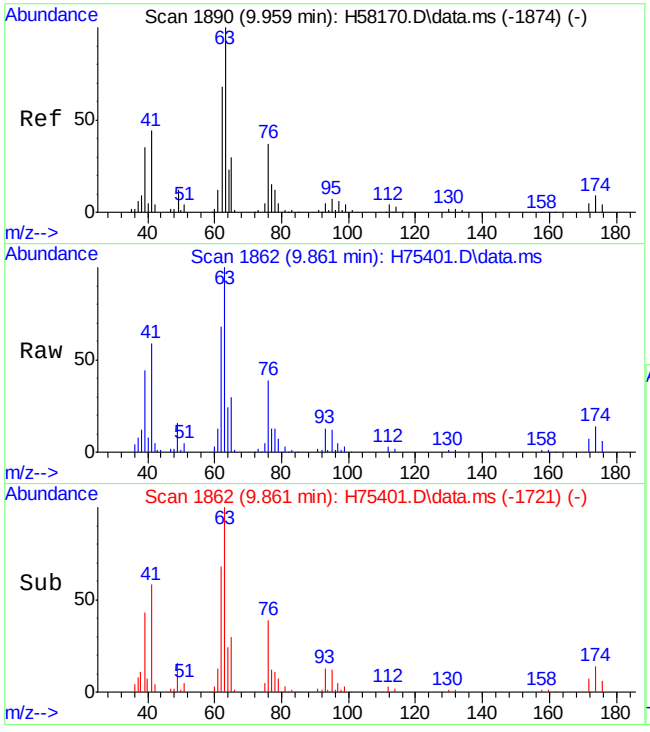
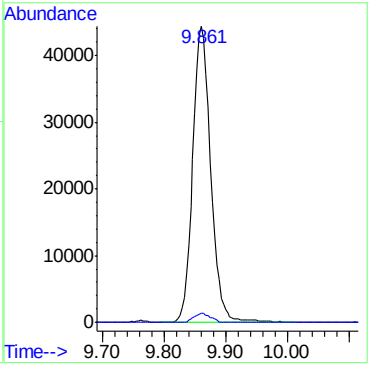
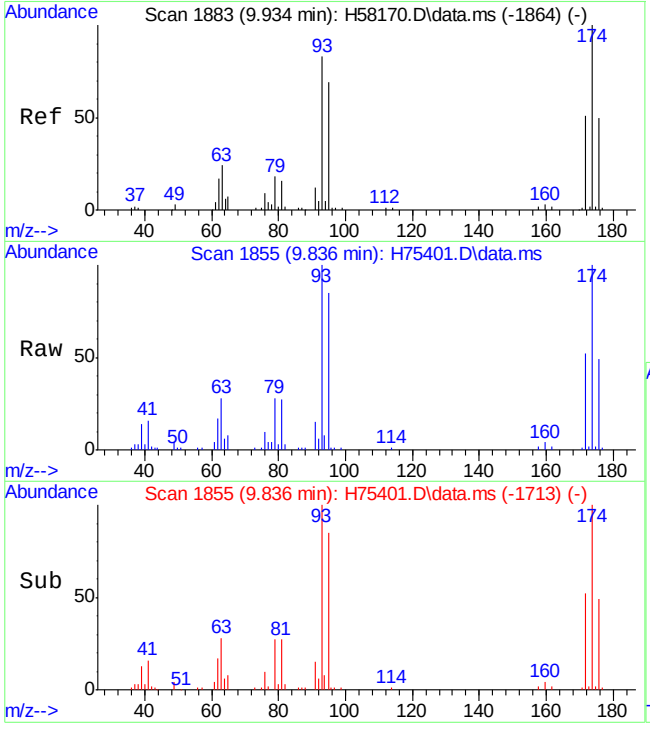


#52
1,2-dichloropropane
Concen: 48.62 ug/L
RT: 9.861 min Scan# 1862
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 63 Resp: 89720

Ion	Ratio	Lower	Upper
63	100		
112	3.2	0.0	34.6

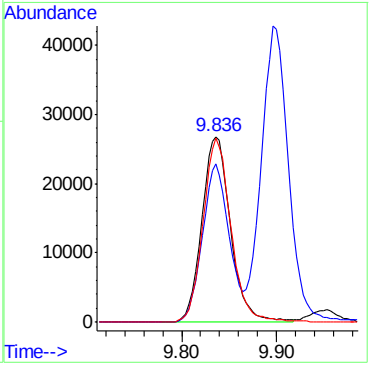




#53
dibromomethane
Concen: 50.52 ug/L
RT: 9.836 min Scan# 1855
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 93 Resp: 55887

Ion	Ratio	Lower	Upper
93	100		
95	85.2	52.2	112.2
174	101.7	76.7	136.7



7.4.4

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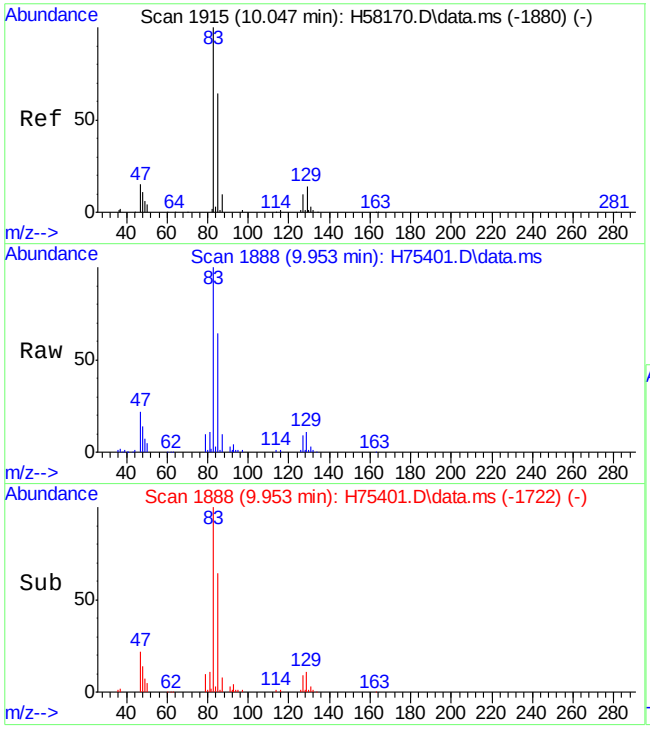
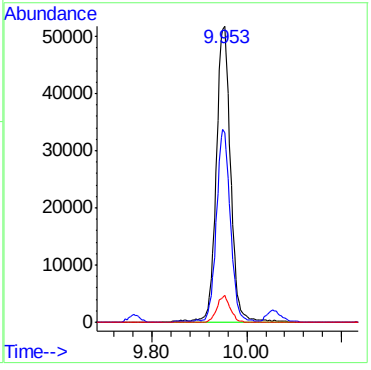
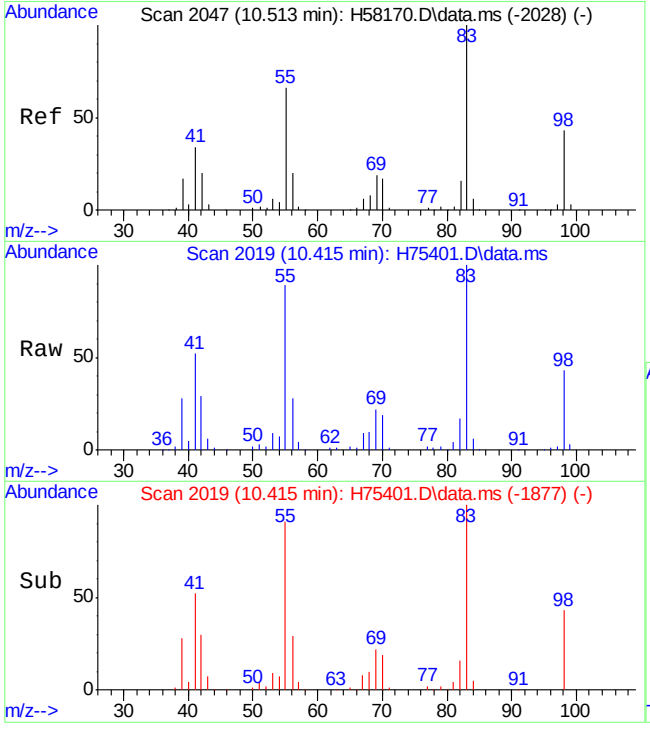


#54
bromodichloromethane
Concen: 49.15 ug/L
RT: 9.953 min Scan# 1888
Delta R.T. 0.004 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 83 Resp: 108857

Ion	Ratio	Lower	Upper
83	100		
85	63.9	36.5	96.5
127	9.1	0.0	42.2

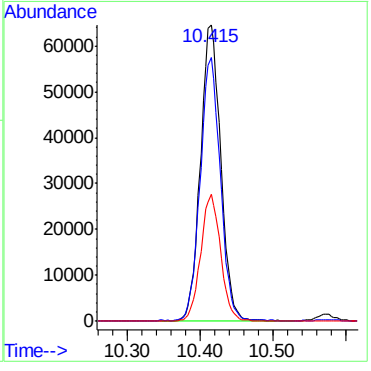




#55
methylcyclohexane
Concen: 44.27 ug/L
RT: 10.415 min Scan# 2019
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 83 Resp: 125167

Ion	Ratio	Lower	Upper
83	100		
55	89.2	51.1	91.1
98	43.0	25.6	65.6



7.4.4

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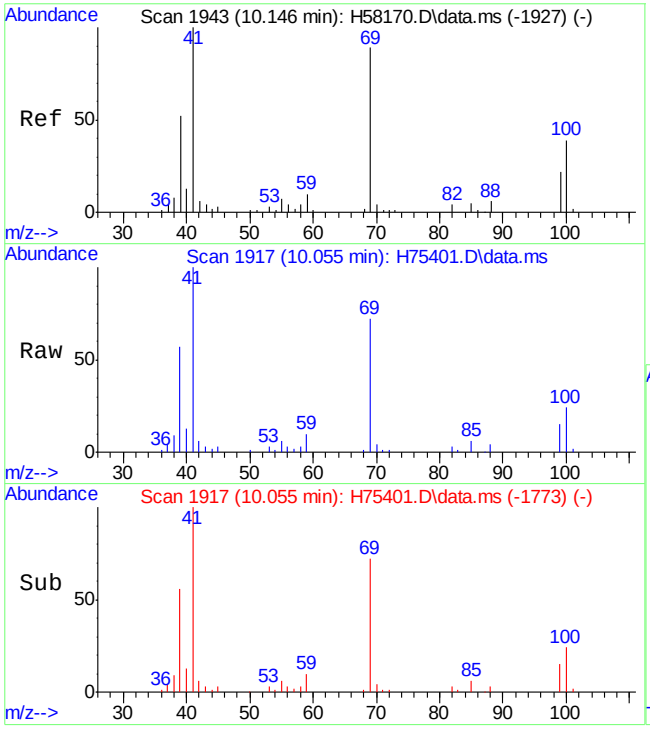
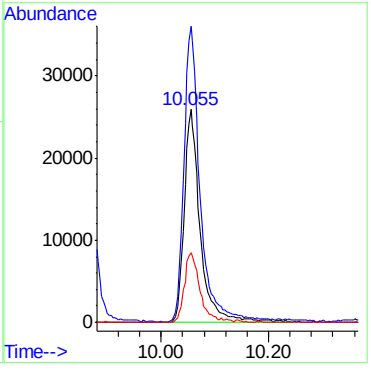
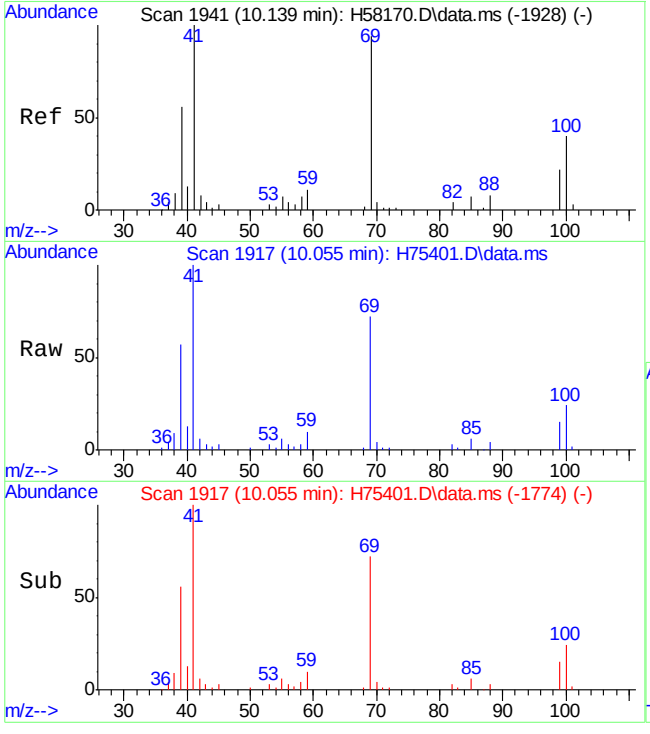


#57
methyl methacrylate
Concen: 46.34 ug/L
RT: 10.055 min Scan# 1917
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 69 Resp: 53525

Ion	Ratio	Lower	Upper
69	100		
41	139.2	108.1	168.1
100	32.8	21.1	81.1

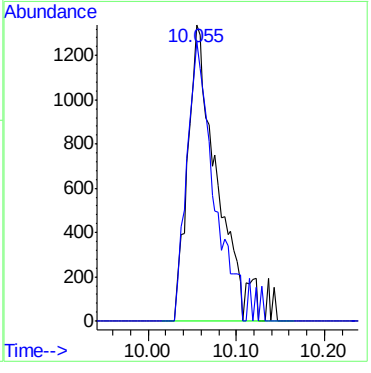


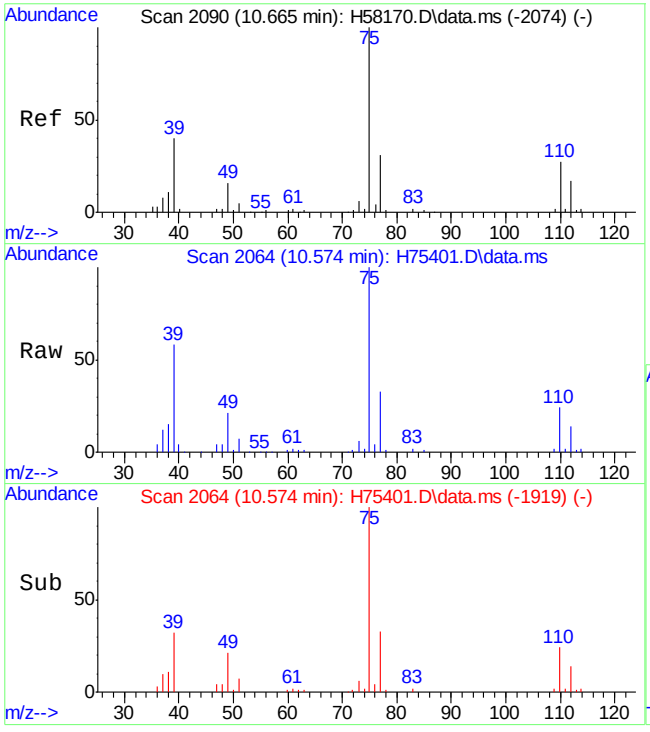


#58
1,4-dioxane
Concen: 203.54 ug/L
RT: 10.055 min Scan# 1917
Delta R.T. -0.005 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 88 Resp: 3136

Ion	Ratio	Lower	Upper
88	100		
58	94.2	60.1	120.1

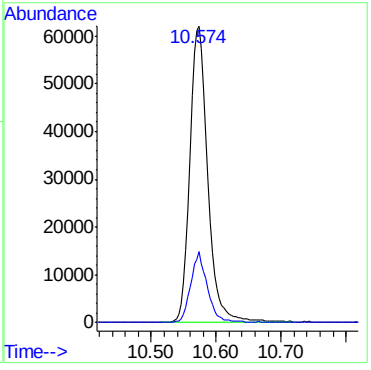


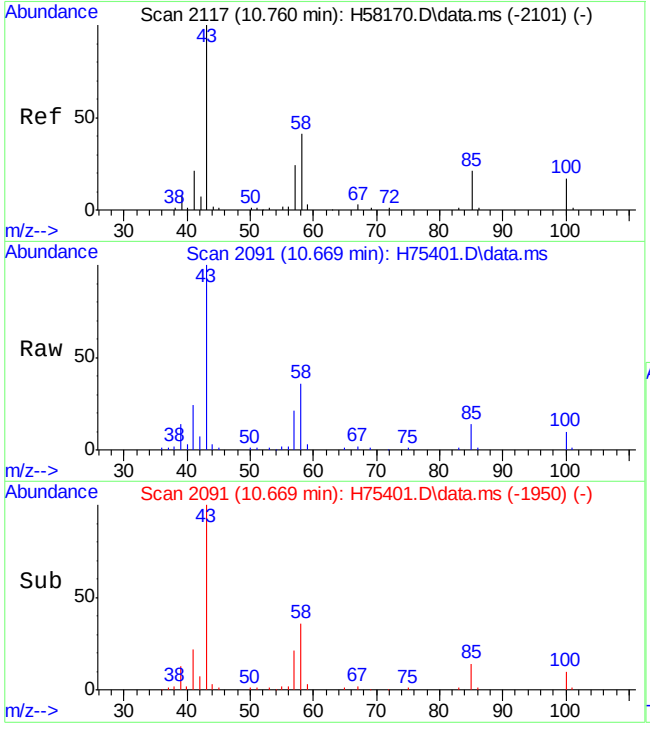


#59
cis-1,3-dichloropropene
Concen: 48.96 ug/L
RT: 10.574 min Scan# 2064
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 75 Resp: 121060

Ion	Ratio	Lower	Upper
75	100		
110	23.8	0.0	57.6

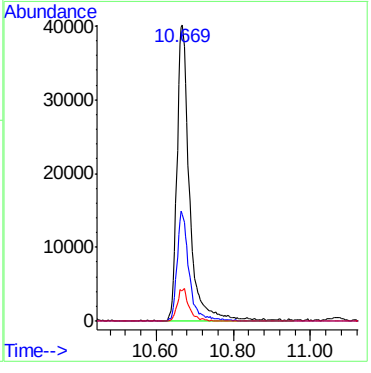


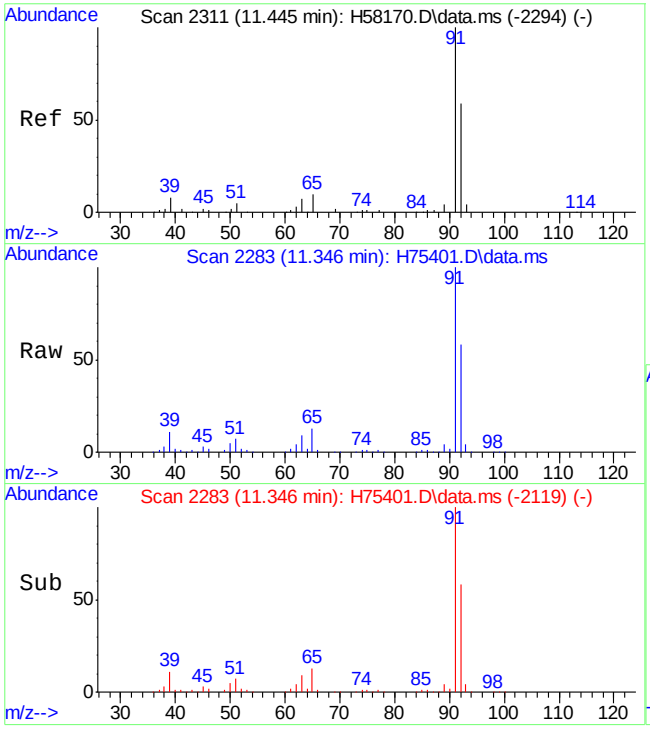


#61
4-methyl-2-pentanone
Concen: 48.67 ug/L
RT: 10.669 min Scan# 2091
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 91172

Ion	Ratio	Lower	Upper
43	100		
58	35.1	8.9	68.9
100	10.0	0.0	46.9

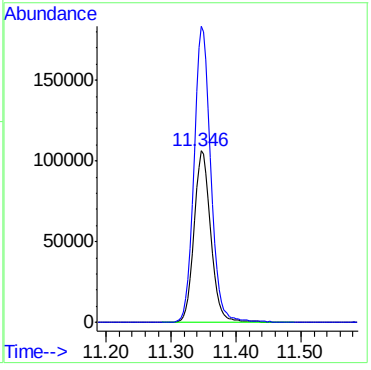


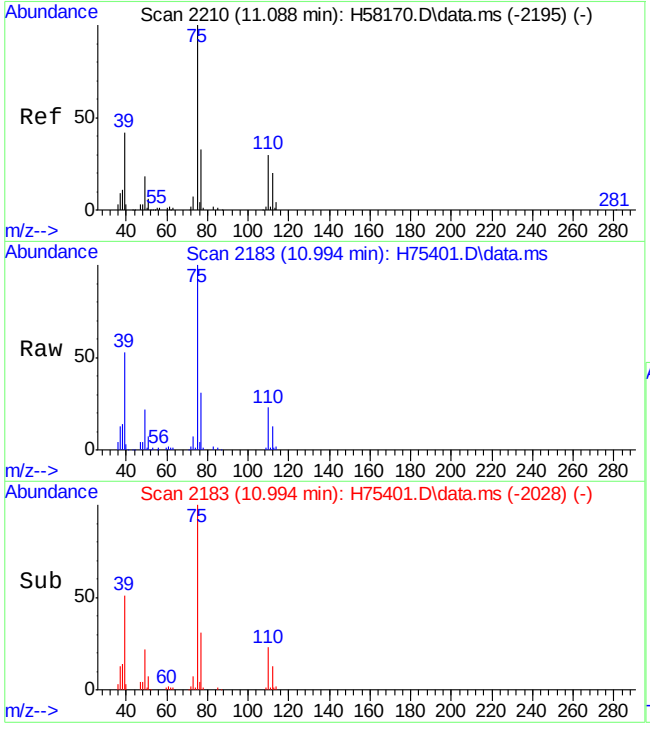


#62
toluene
Concen: 47.65 ug/L
RT: 11.346 min Scan# 2283
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 92 Resp: 193376

Ion	Ratio	Lower	Upper
92	100		
91	172.6	140.4	200.4

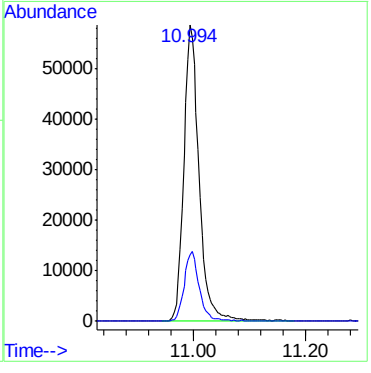


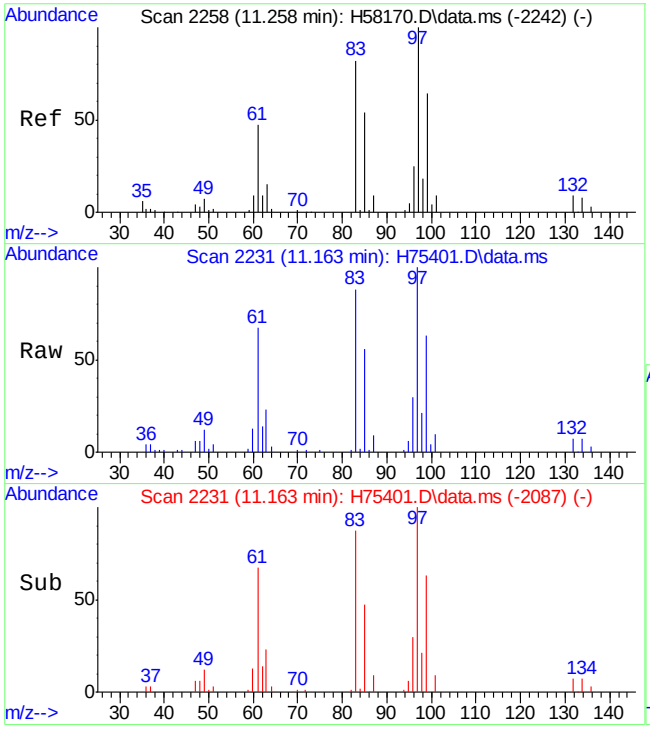


#63
trans-1,3-dichloropropene
Concen: 43.84 ug/L
RT: 10.994 min Scan# 2183
Delta R.T. -0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 75 Resp: 109309

Ion	Ratio	Lower	Upper
75	100		
110	22.5	0.0	54.2

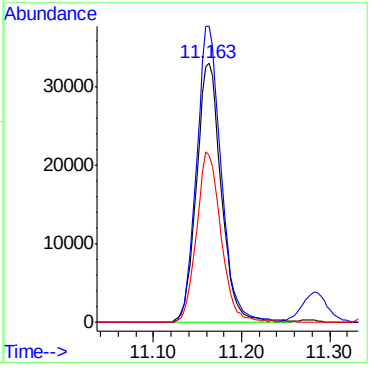


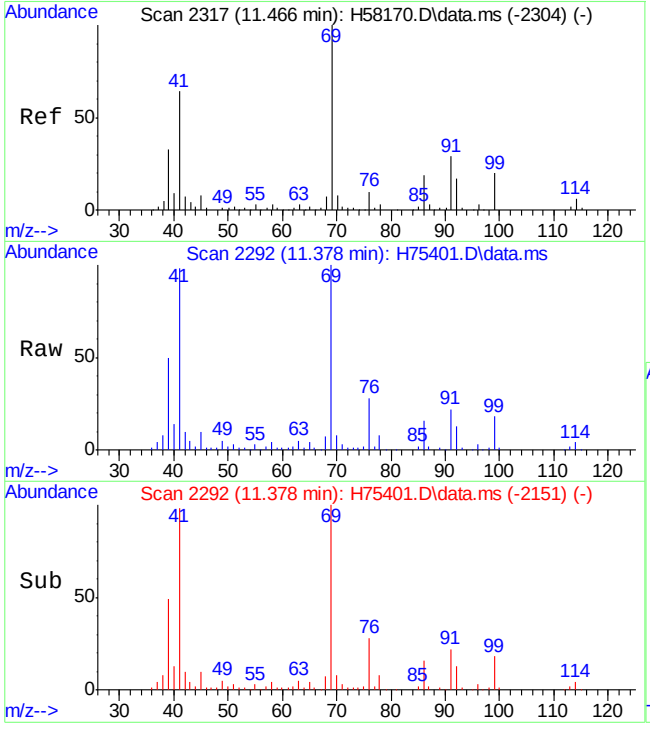


#64
1,1,2-trichloroethane
Concen: 47.77 ug/L
RT: 11.163 min Scan# 2231
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 83 Resp: 64512

Ion	Ratio	Lower	Upper
83	100		
97	114.1	98.5	158.5
85	64.3	34.7	94.7

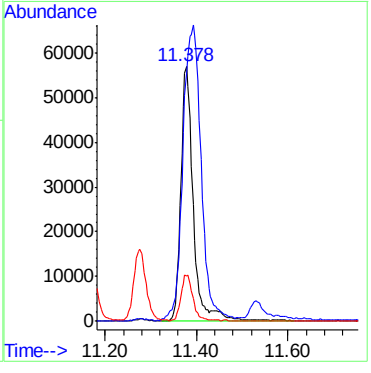


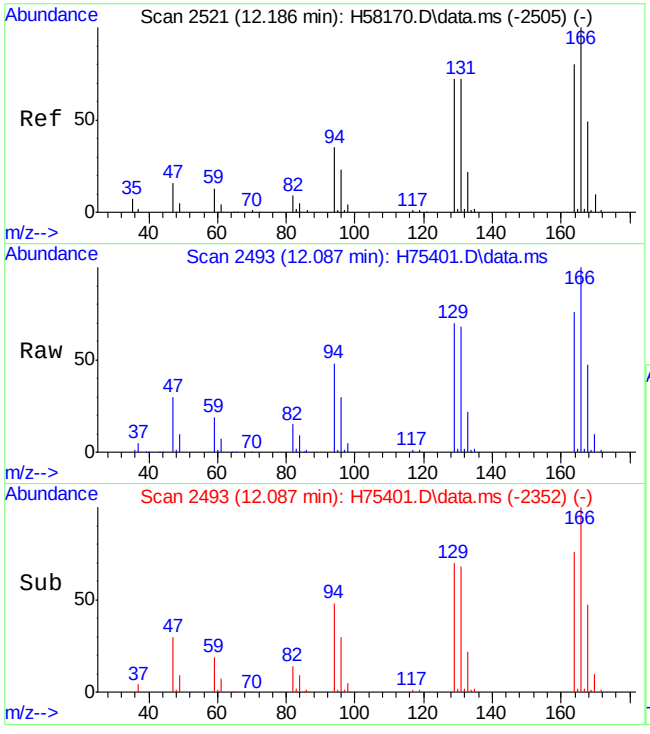


#65
ethyl methacrylate
Concen: 48.92 ug/L
RT: 11.378 min Scan# 2292
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 69 Resp: 108176

Ion	Ratio	Lower	Upper
69	100		
41	96.8	68.2	128.2
99	17.6	0.0	55.4

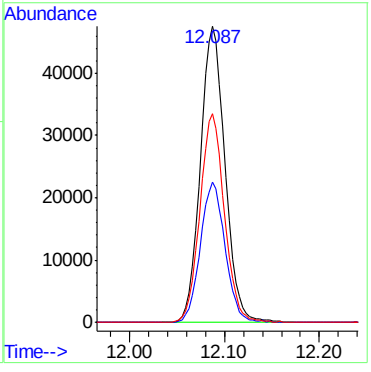


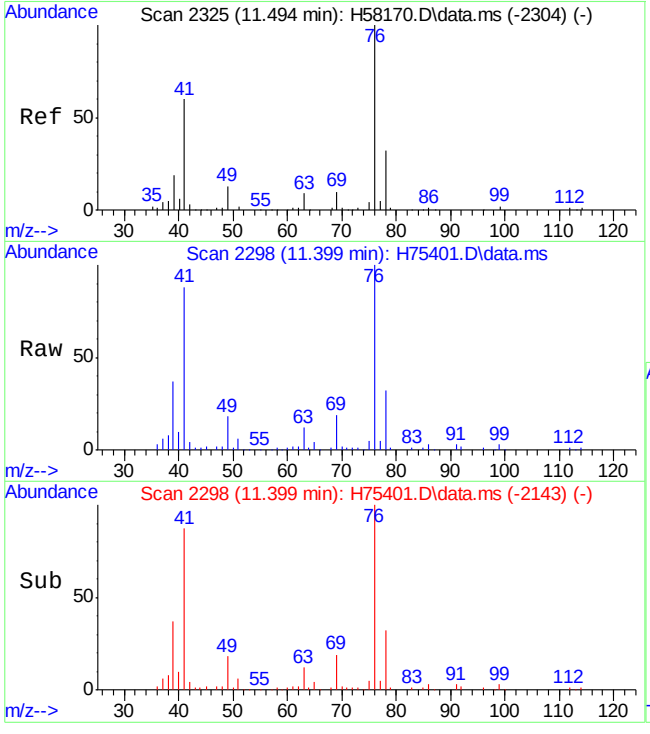


#67
tetrachloroethene
Concen: 43.49 ug/L
RT: 12.087 min Scan# 2493
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:166 Resp: 84990

Ion	Ratio	Lower	Upper
166	100		
168	47.2	17.7	77.7
129	70.4	48.9	108.9

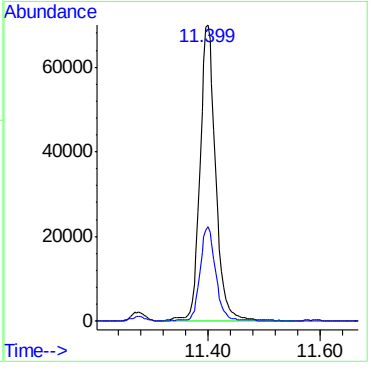


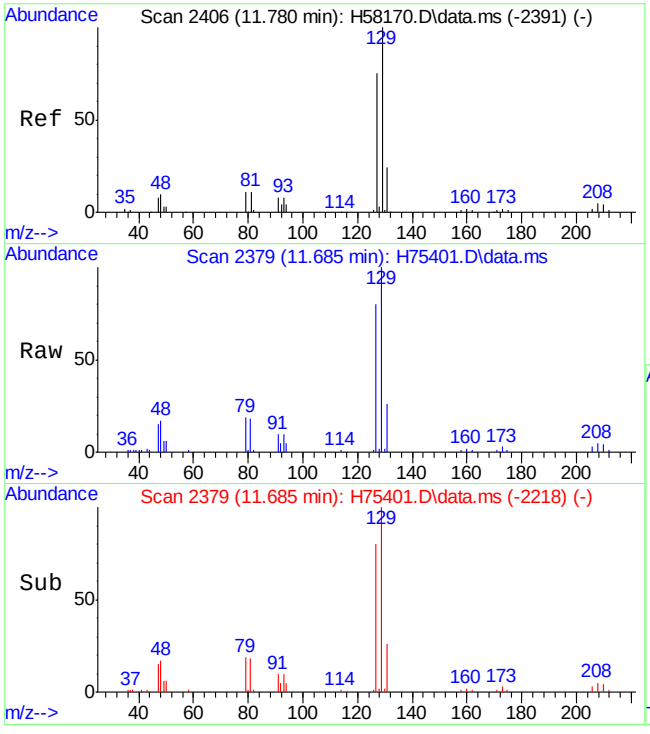


#68
1,3-dichloropropane
Concen: 46.31 ug/L
RT: 11.399 min Scan# 2298
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 76 Resp: 135921

Ion	Ratio	Lower	Upper
76	100		
78	31.8	3.4	63.4

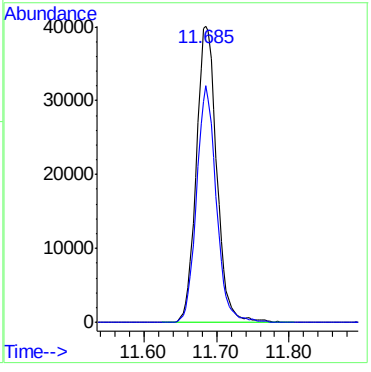


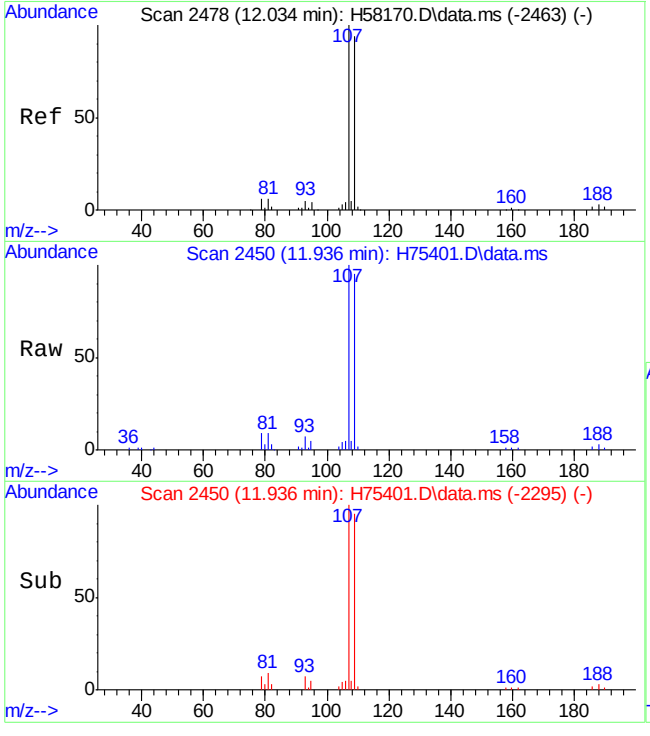


#69
dibromochloromethane
Concen: 40.46 ug/L
RT: 11.685 min Scan# 2379
Delta R.T. -0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:129 Resp: 78136

Ion	Ratio	Lower	Upper
129	100		
127	79.8	48.1	108.1

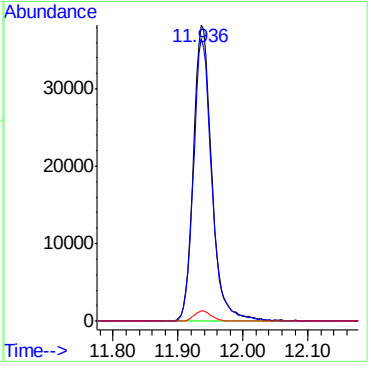




#70
1,2-dibromoethane
Concen: 44.32 ug/L
RT: 11.936 min Scan# 2450
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:107 Resp: 76619

Ion	Ratio	Lower	Upper
107	100		
109	95.4	58.7	118.7
188	3.3	0.0	33.1



7.4.4

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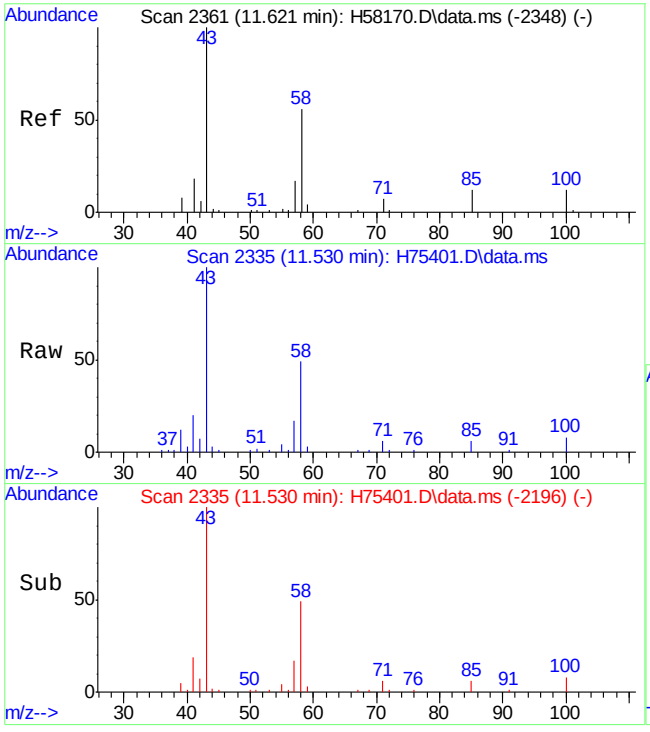
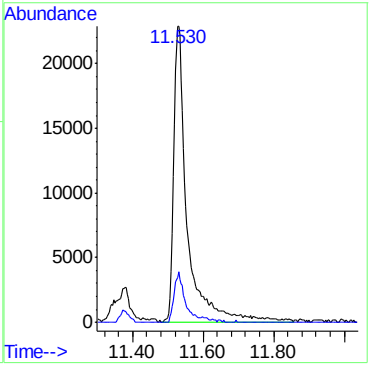
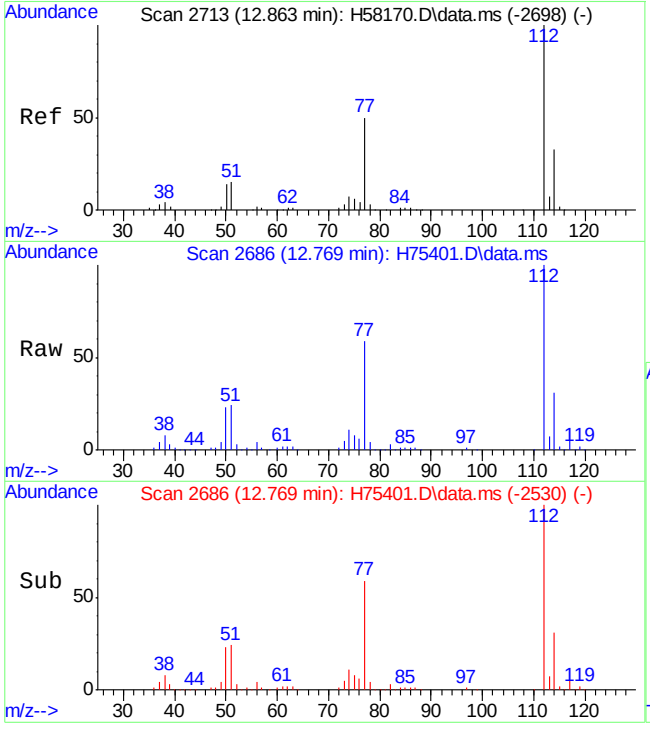


#71
2-hexanone
Concen: 42.86 ug/L
RT: 11.530 min Scan# 2335
Delta R.T. -0.010 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 43 Resp: 60796

Ion	Ratio	Lower	Upper
43	100		
57	14.9	0.0	48.4

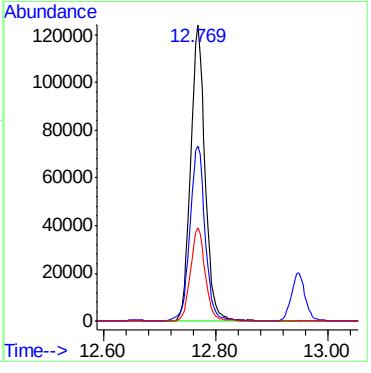


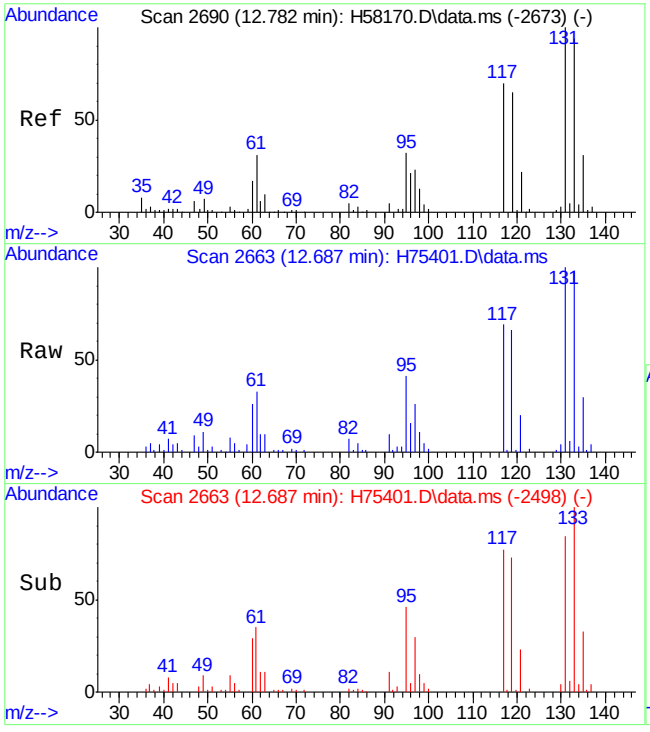


#72
chlorobenzene
Concen: 42.53 ug/L
RT: 12.769 min Scan# 2686
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:112 Resp: 221226

Ion	Ratio	Lower	Upper
112	100		
77	59.2	19.7	79.7
114	31.4	2.4	62.4

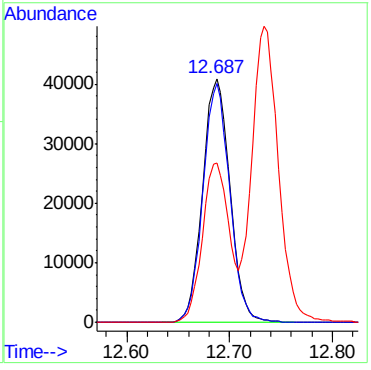


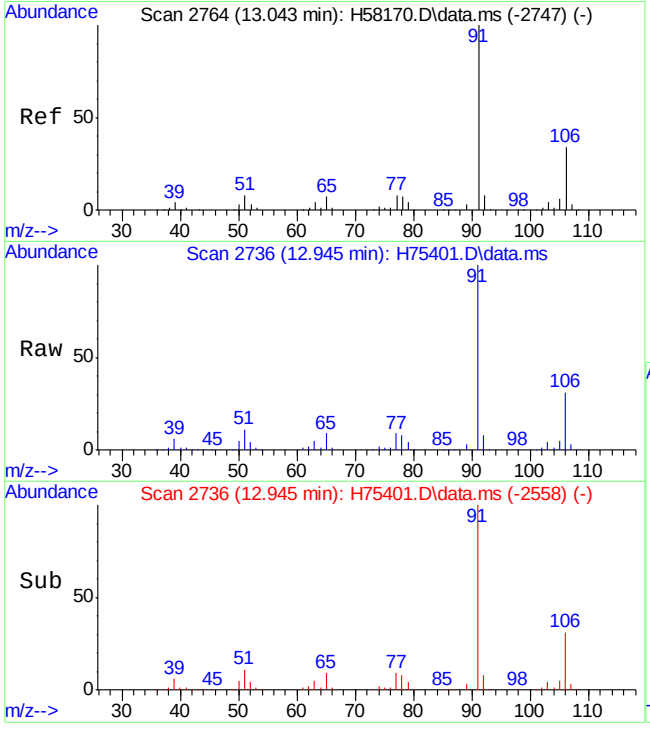


#73
1,1,1,2-tetrachloroethane
Concen: 46.86 ug/L
RT: 12.687 min Scan# 2663
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:131 Resp: 75419

Ion	Ratio	Lower	Upper
131	100		
133	97.8	64.9	124.9
119	65.6	26.4	86.4

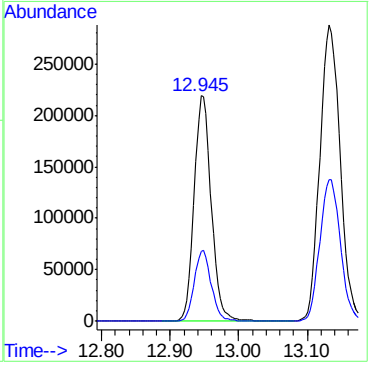


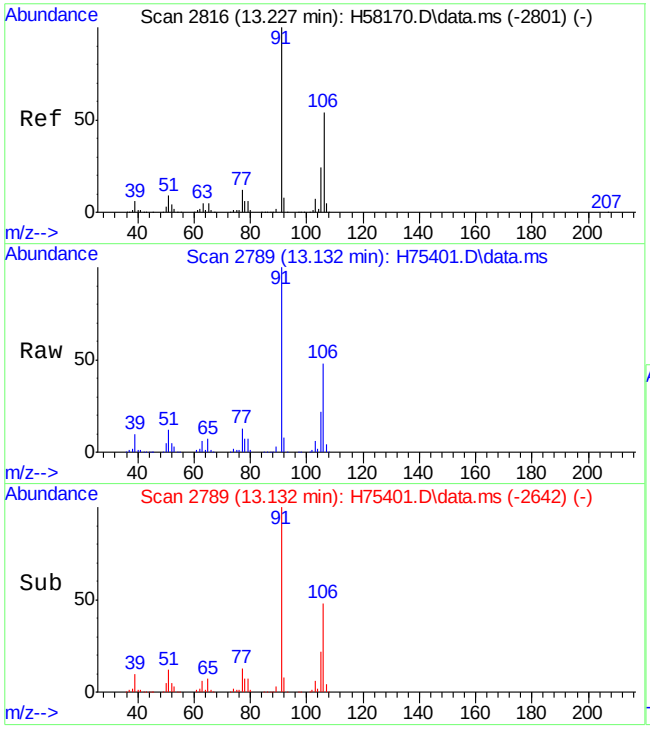


#74
ethylbenzene
Concen: 45.52 ug/L
RT: 12.945 min Scan# 2736
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 91 Resp: 379861

Ion	Ratio	Lower	Upper
91	100		
106	30.8	2.9	62.9

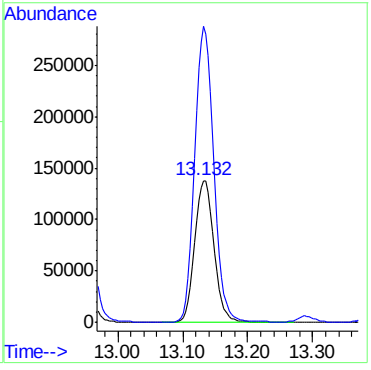


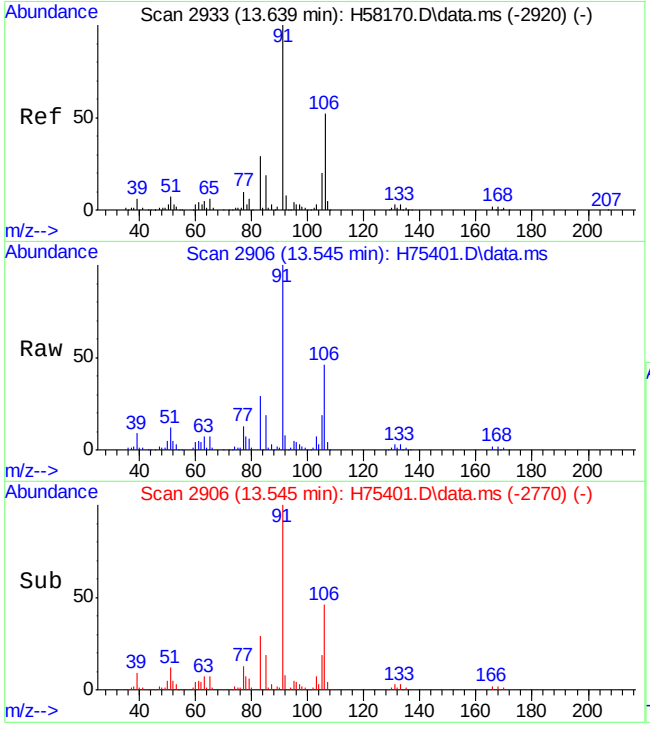


#75
m,p-xylene
Concen: 92.61 ug/L
RT: 13.132 min Scan# 2789
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:106 Resp: 289940

Ion	Ratio	Lower	Upper
106	100		
91	208.7	173.2	233.2

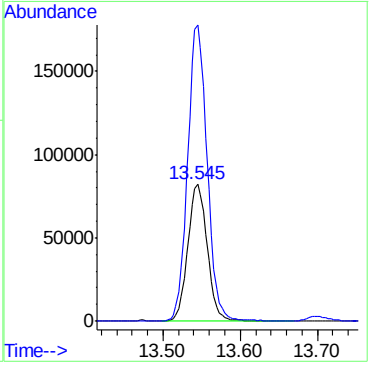


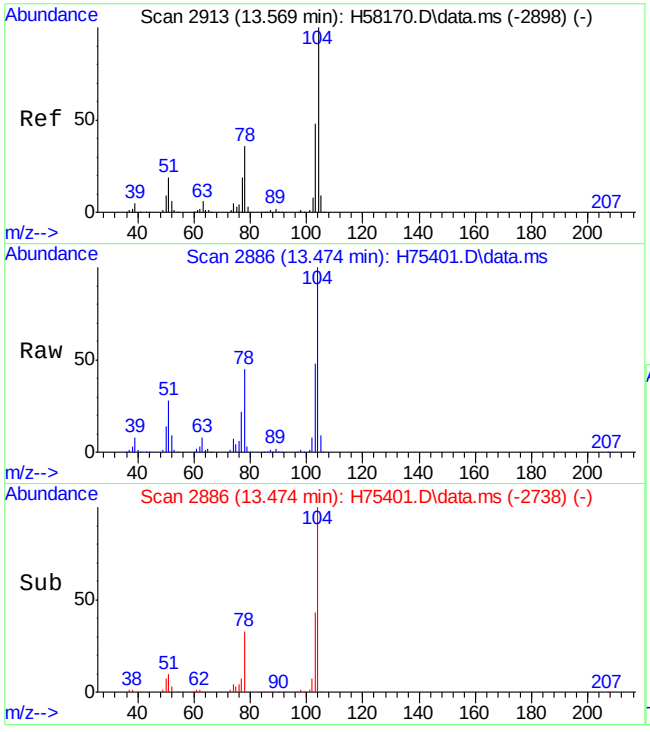


#76
o-xylene
Concen: 44.69 ug/L
RT: 13.545 min Scan# 2906
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:106 Resp: 143580

Ion	Ratio	Lower	Upper
106	100		
91	215.4	183.3	243.3

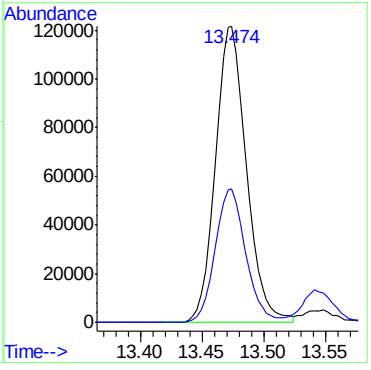


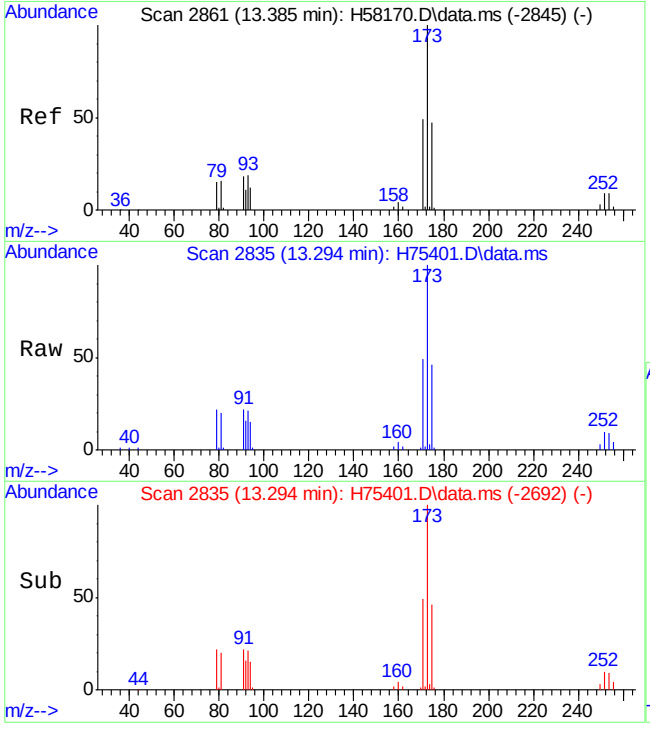


#77
styrene
Concen: 39.35 ug/L
RT: 13.474 min Scan# 2886
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:104 Resp: 212617

Ion	Ratio	Lower	Upper
104	100		
78	45.2	12.2	72.2

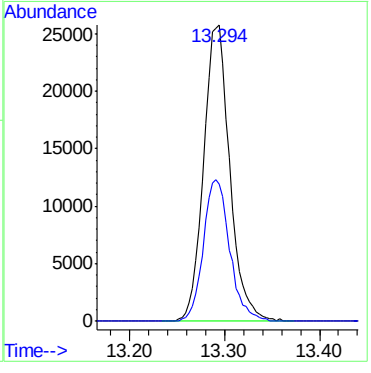


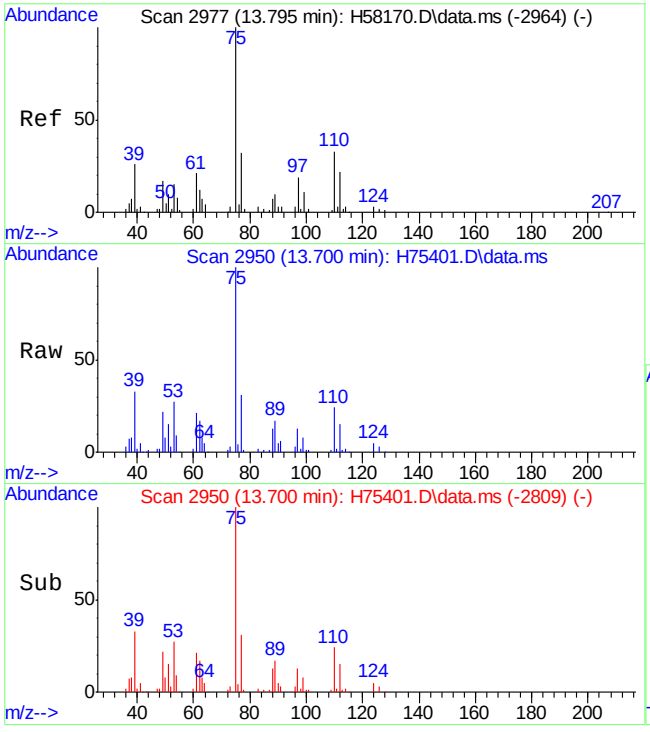


#78
bromoform
Concen: 45.30 ug/L
RT: 13.294 min Scan# 2835
Delta R.T. 0.005 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:173 Resp: 49028

Ion	Ratio	Lower	Upper
173	100		
175	46.2	17.7	77.7

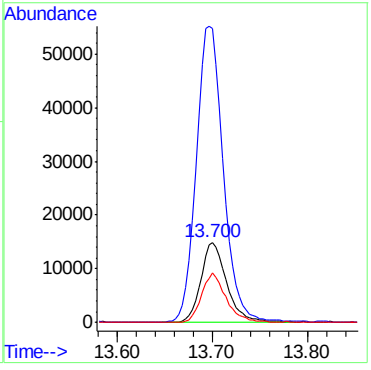


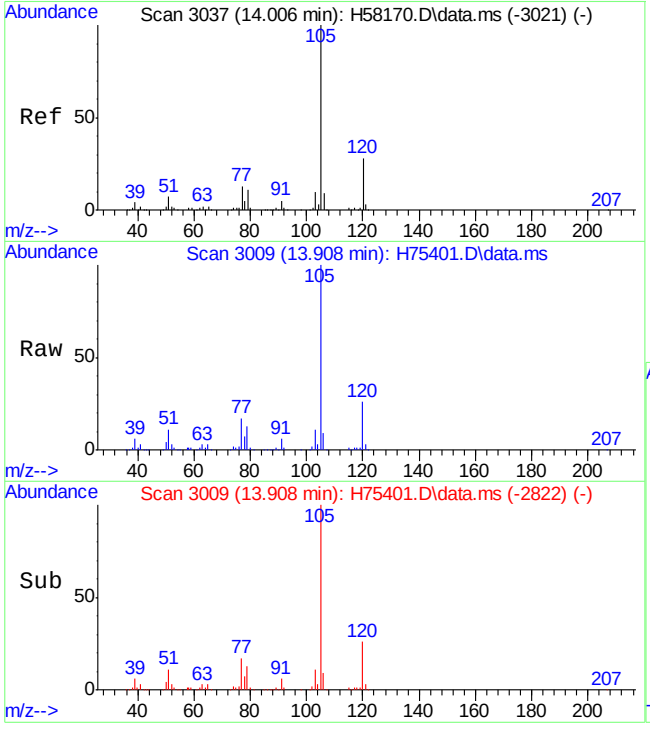


#79
trans-1,4-dichloro-2-butene
Concen: 44.91 ug/L
RT: 13.700 min Scan# 2950
Delta R.T. -0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 53 Resp: 27937

Ion	Ratio	Lower	Upper
53	100		
75	368.0	302.8	362.8#
89	62.4	25.5	85.5

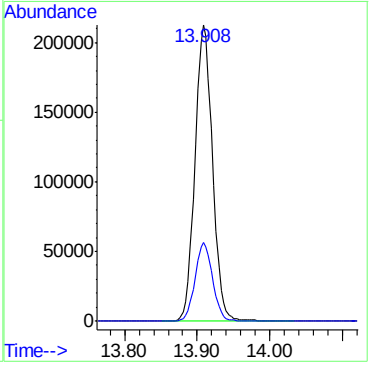


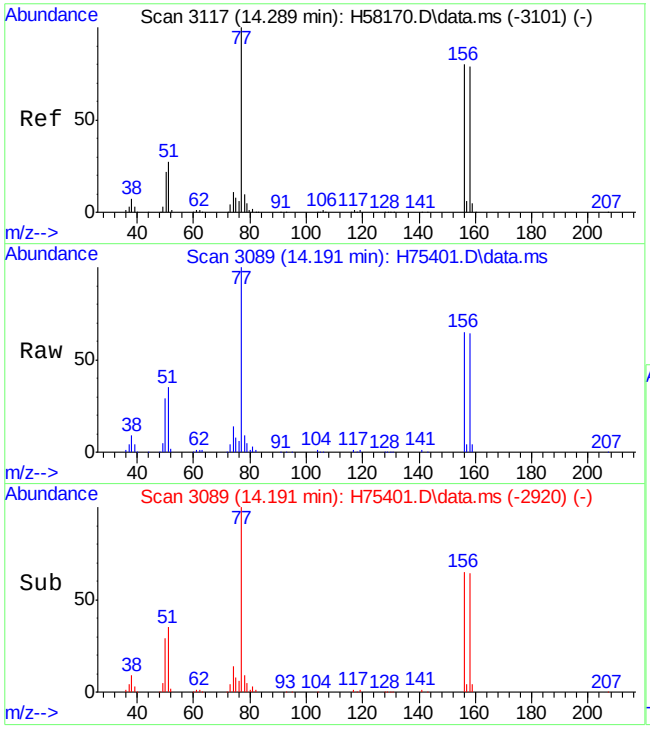


#81
isopropylbenzene
Concen: 41.59 ug/L
RT: 13.908 min Scan# 3009
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:105 Resp: 355314

Ion	Ratio	Lower	Upper
105	100		
120	26.4	0.0	56.6

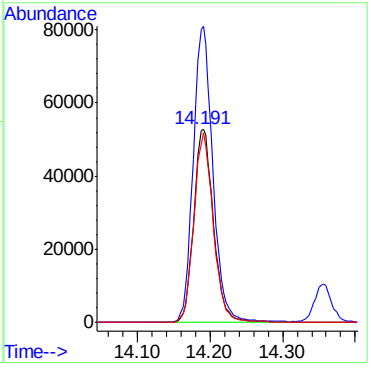


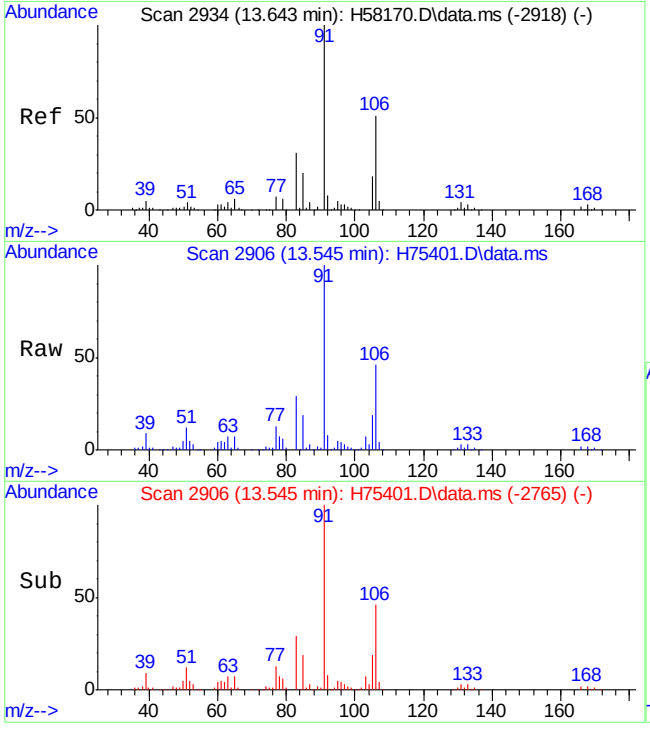


#83
bromobenzene
Concen: 42.13 ug/L
RT: 14.191 min Scan# 3089
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:156 Resp: 99481

Ion	Ratio	Lower	Upper
156	100		
77	153.1	93.1	153.1
158	98.2	65.7	125.7

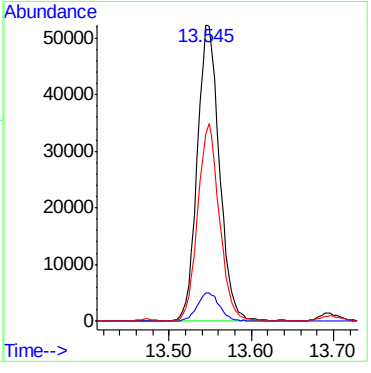


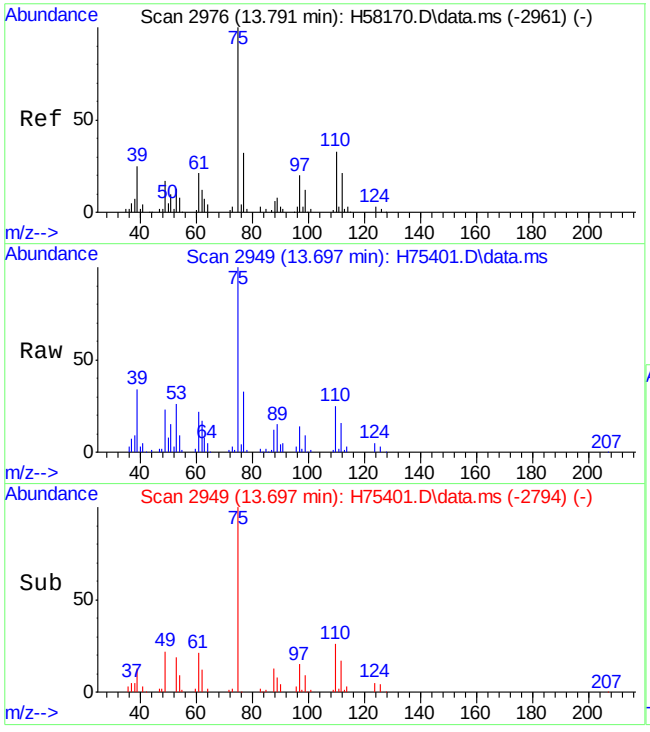


#84
1,1,2,2-tetrachloroethane
Concen: 47.13 ug/L
RT: 13.545 min Scan# 2906
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 83 Resp: 98169

Ion	Ratio	Lower	Upper
83	100		
131	9.4	0.0	45.7
85	63.2	36.0	96.0

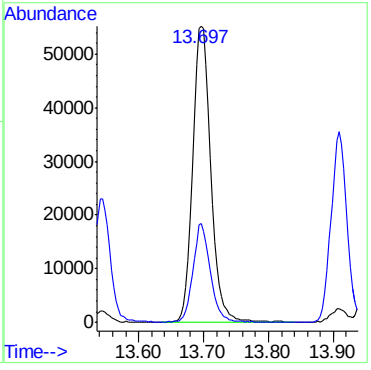


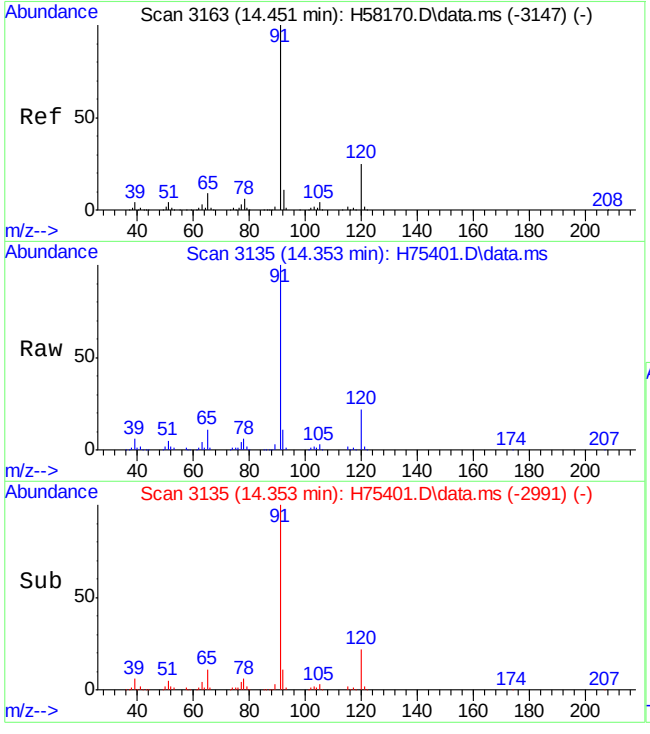


#85
1,2,3-trichloropropane
Concen: 46.20 ug/L
RT: 13.697 min Scan# 2949
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 75 Resp: 109270

Ion	Ratio	Lower	Upper
75	100		
77	33.5	4.2	64.2

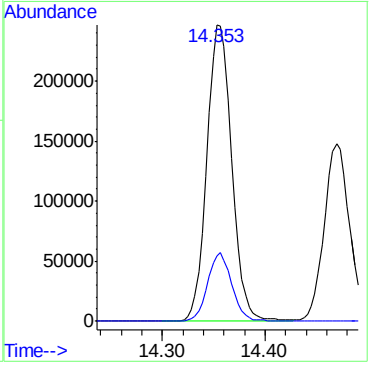


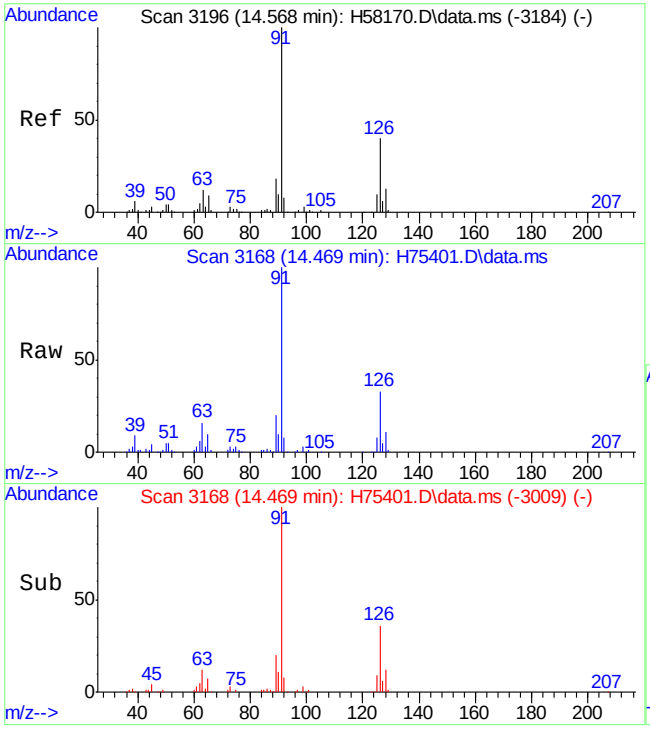


#86
n-propylbenzene
Concen: 41.11 ug/L
RT: 14.353 min Scan# 3135
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 91 Resp: 414237

Ion	Ratio	Lower	Upper
91	100		
120	22.2	0.0	55.4

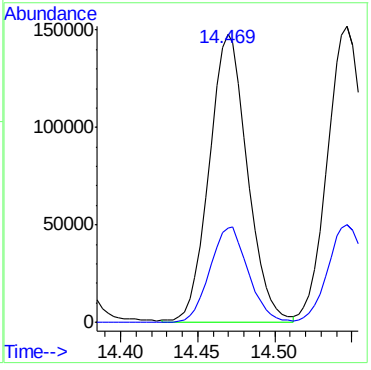


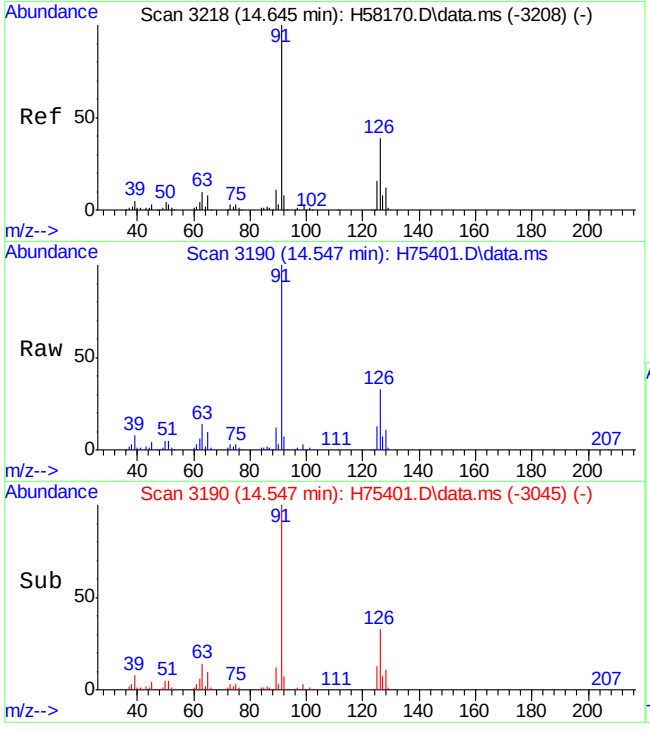


#87
2-chlorotoluene
Concen: 42.21 ug/L
RT: 14.469 min Scan# 3168
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 91 Resp: 254400

Ion	Ratio	Lower	Upper
91	100		
126	32.9	10.4	70.4

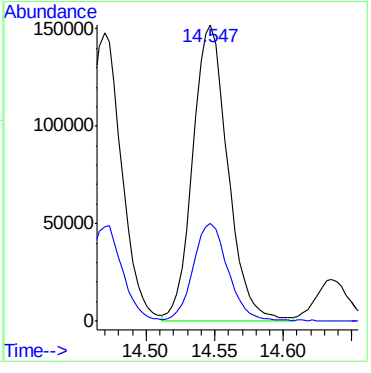




#88
4-chlorotoluene
Concen: 42.59 ug/L
RT: 14.547 min Scan# 3190
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

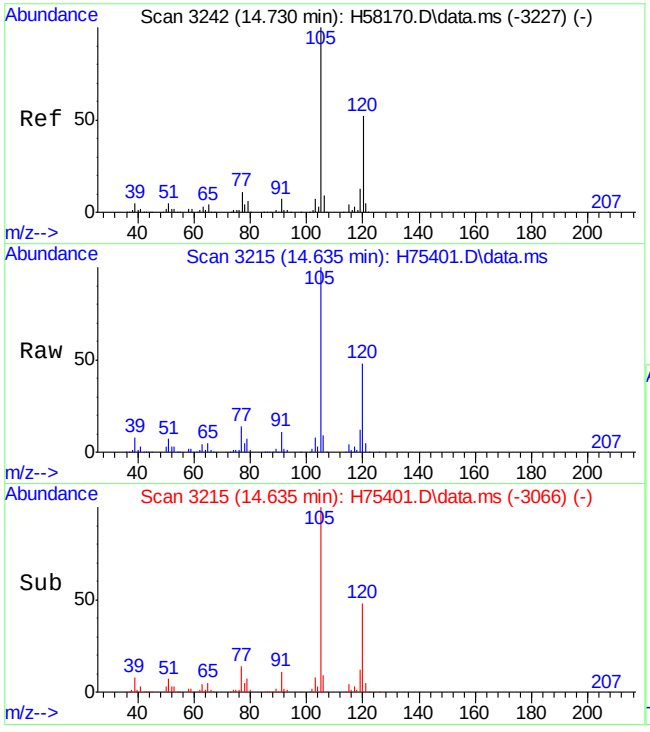
Tgt Ion: 91 Resp: 270052

Ion	Ratio	Lower	Upper
91	100		
126	33.3	9.4	69.4



7.4.4

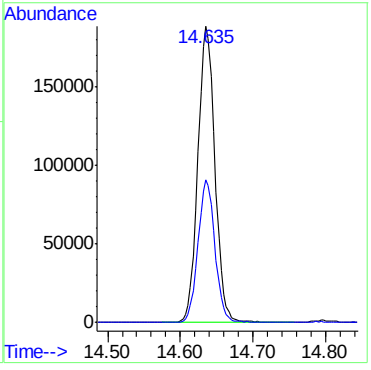
7

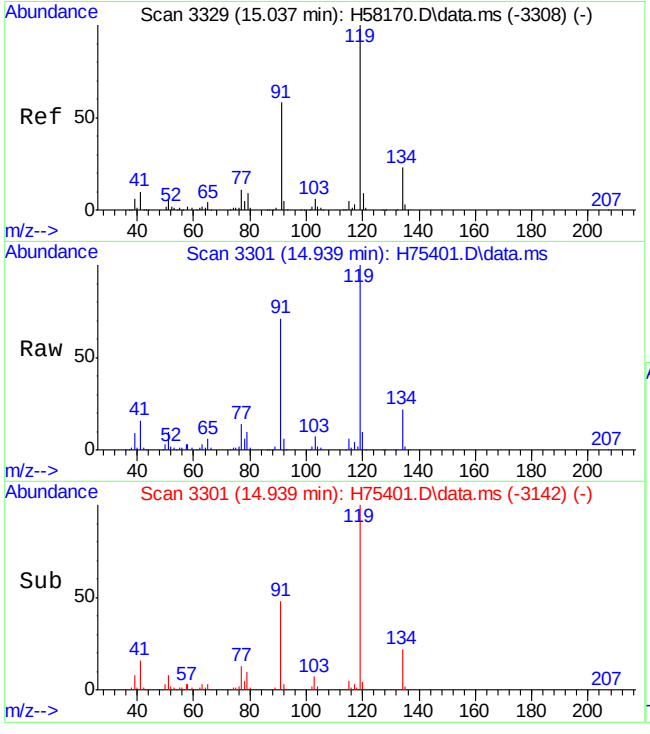


#89
1,3,5-trimethylbenzene
Concen: 45.79 ug/L
RT: 14.635 min Scan# 3215
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:105 Resp: 307355

Ion	Ratio	Lower	Upper
105	100		
120	48.0	18.1	78.1

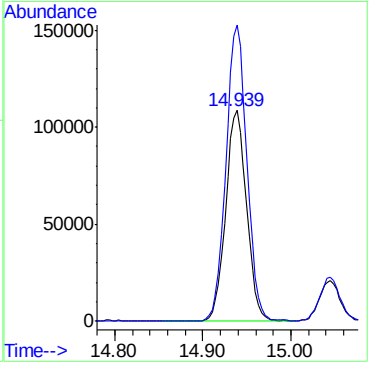


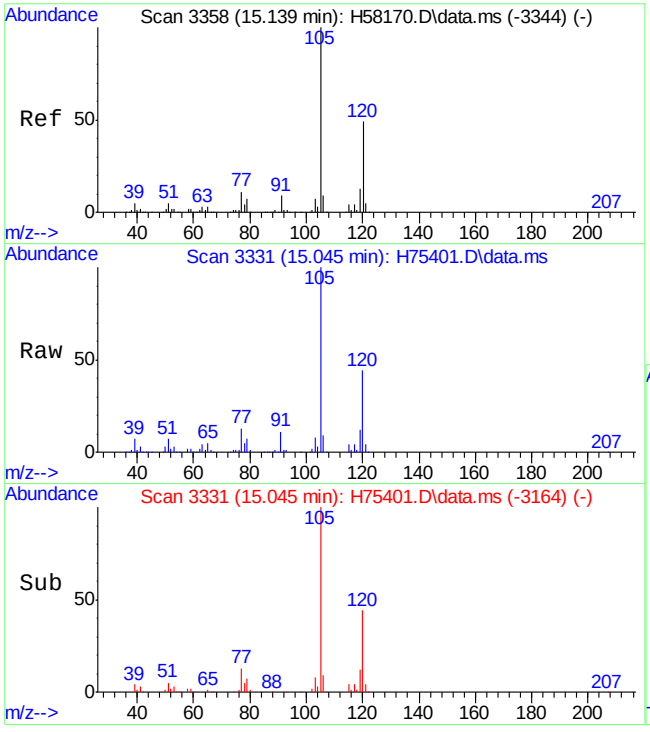


#90
tert-butylbenzene
Concen: 43.80 ug/L
RT: 14.939 min Scan# 3301
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 91 Resp: 179204

Ion	Ratio	Lower	Upper
91	100		
119	140.7	125.7	185.7

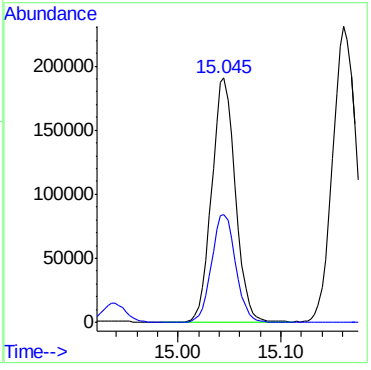


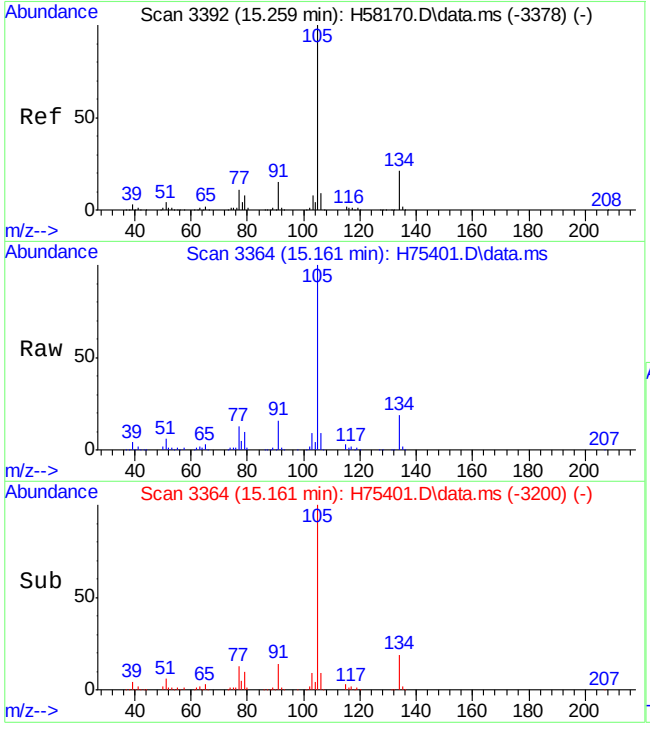


#91
1,2,4-trimethylbenzene
Concen: 45.23 ug/L
RT: 15.045 min Scan# 3331
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:105 Resp: 304589

Ion	Ratio	Lower	Upper
105	100		
120	44.1	15.6	75.6

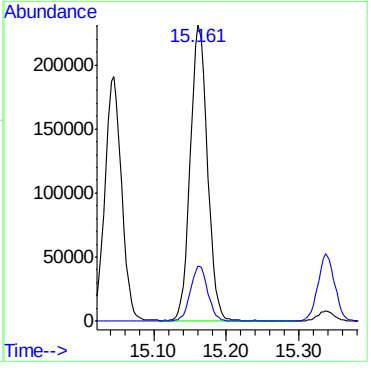


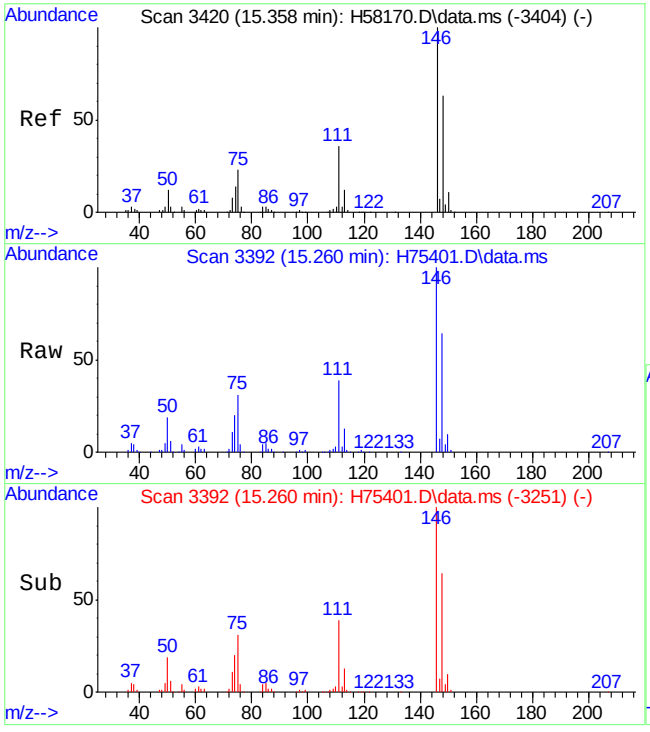


#92
sec-butylbenzene
Concen: 43.78 ug/L
RT: 15.161 min Scan# 3364
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:105 Resp: 380931

Ion	Ratio	Lower	Upper
105	100		
134	18.6	0.0	49.6

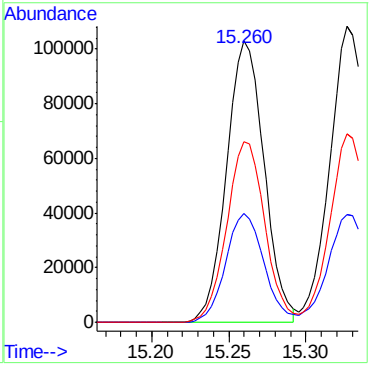


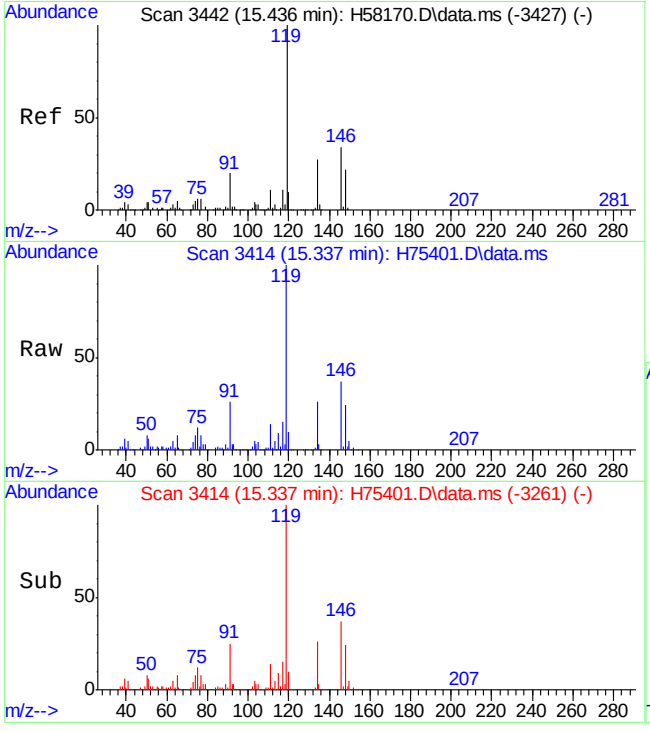


#93
1,3-dichlorobenzene
Concen: 43.74 ug/L
RT: 15.260 min Scan# 3392
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:146 Resp: 174746

Ion	Ratio	Lower	Upper
146	100		
111	38.7	8.2	68.2
148	64.2	34.0	94.0

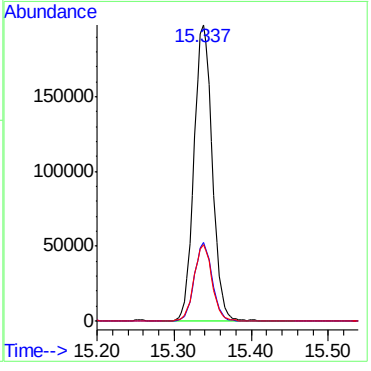




#94
p-isopropyltoluene
Concen: 44.53 ug/L
RT: 15.337 min Scan# 3414
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

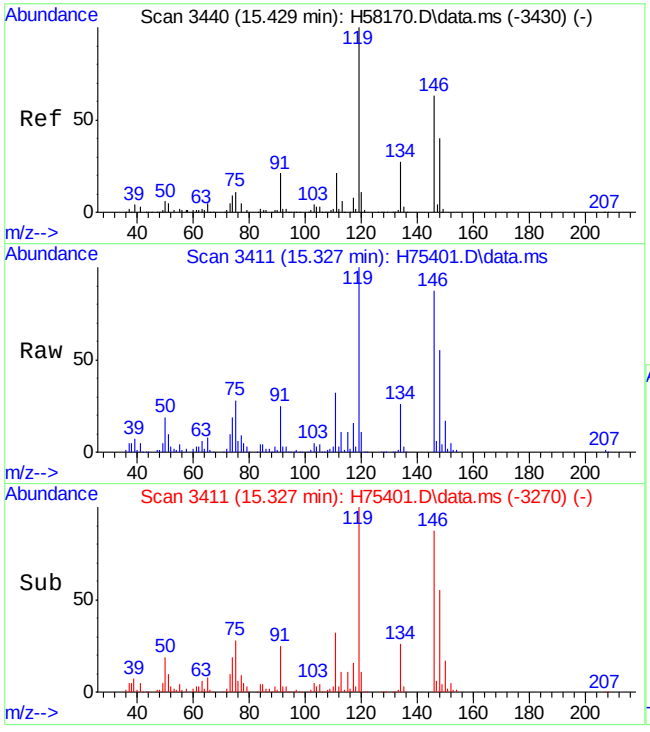
Tgt Ion:119 Resp: 325791

Ion	Ratio	Lower	Upper
119	100		
134	26.4	0.0	57.0
91	25.6	0.0	52.8



7.4.4

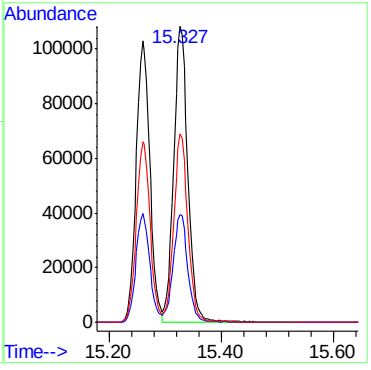
7

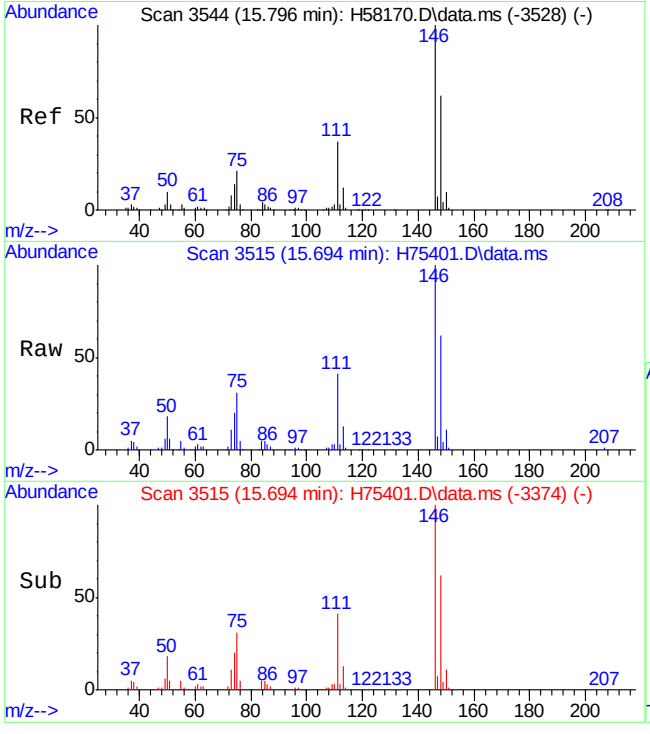


#95
1,4-dichlorobenzene
Concen: 43.75 ug/L
RT: 15.327 min Scan# 3411
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:146 Resp: 190696

Ion	Ratio	Lower	Upper
146	100		
111	36.2	6.7	66.7
148	63.5	34.0	94.0

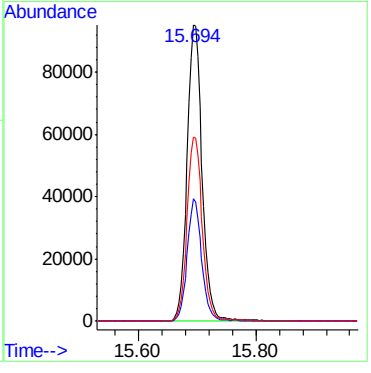




#96
1,2-dichlorobenzene
Concen: 46.04 ug/L
RT: 15.694 min Scan# 3515
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

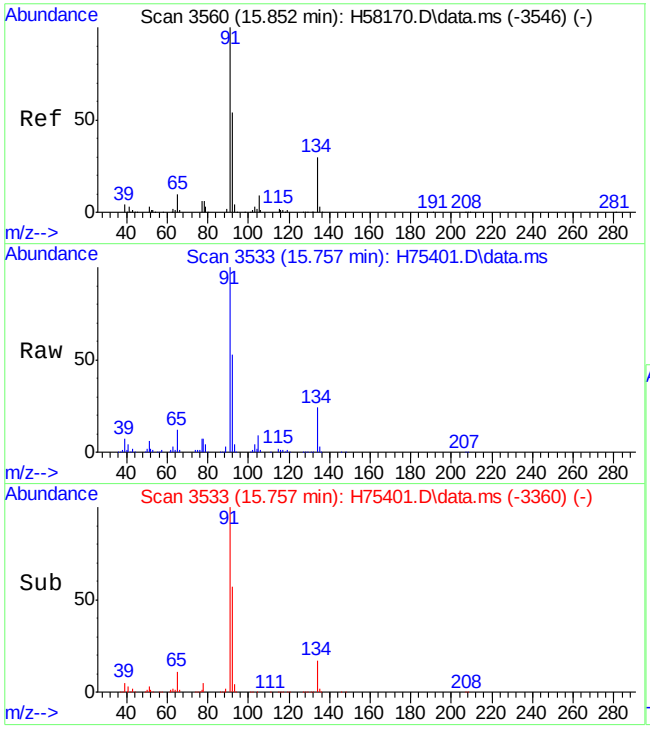
Tgt Ion:146 Resp: 167052

Ion	Ratio	Lower	Upper
146	100		
111	41.3	9.9	69.9
148	62.2	33.5	93.5



7.4.4

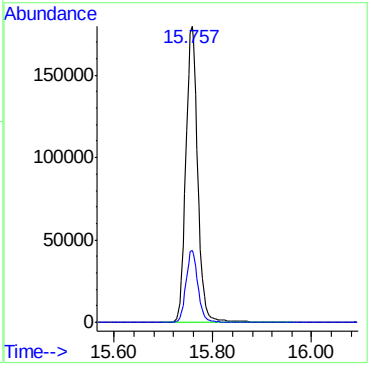
7

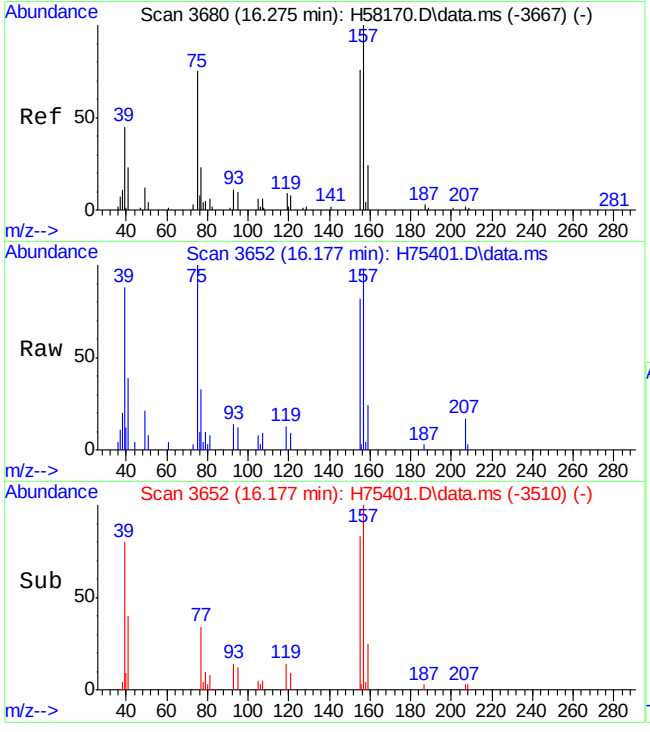


#97
n-butylbenzene
Concen: 46.09 ug/L
RT: 15.757 min Scan# 3533
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion: 91 Resp: 298890

Ion	Ratio	Lower	Upper
91	100		
134	24.4	0.0	59.2

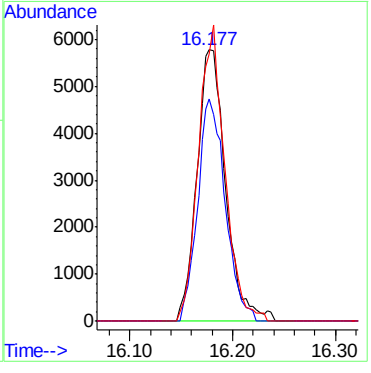




#98
1,2-dibromo-3-chloropropane
Concen: 53.79 ug/L
RT: 16.177 min Scan# 3652
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

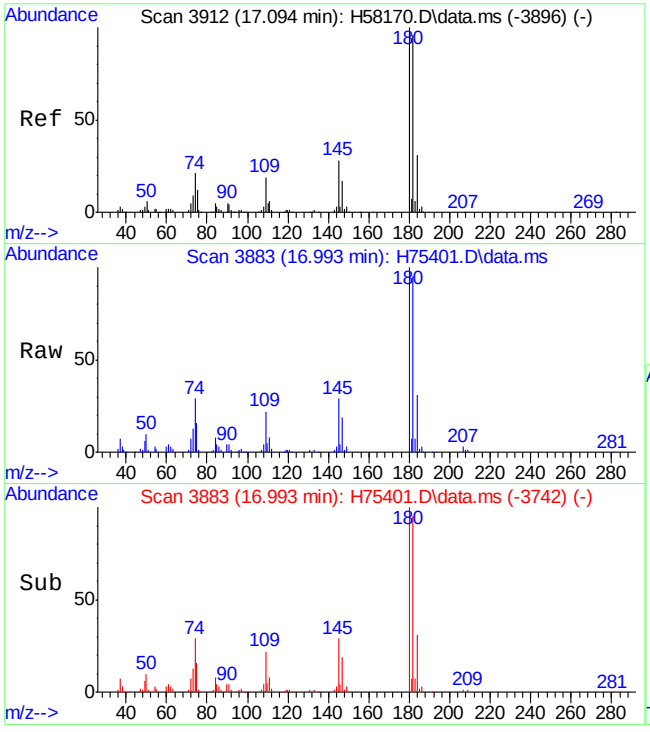
Tgt Ion: 75 Resp: 11145

Ion	Ratio	Lower	Upper
75	100		
155	81.9	66.2	126.2
157	98.4	88.7	148.7



7.4.4

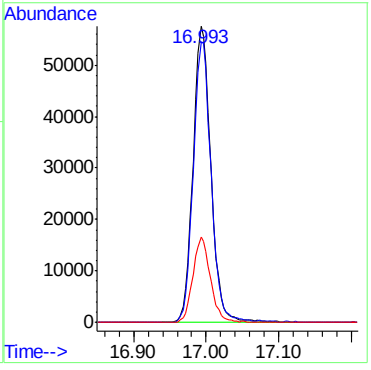
7

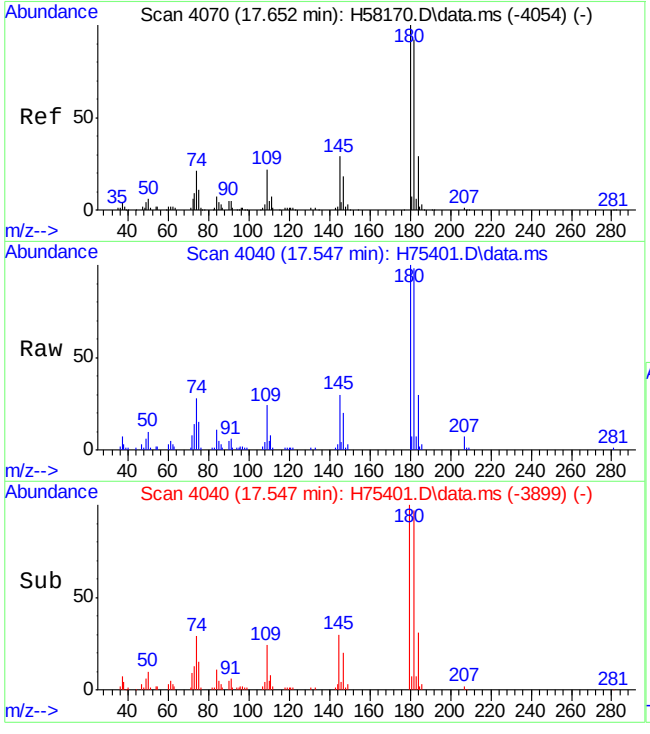


#99
1,3,5-trichlorobenzene
Concen: 43.85 ug/L
RT: 16.993 min Scan# 3883
Delta R.T. -0.003 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:180 Resp: 97760

Ion	Ratio	Lower	Upper
180	100		
182	95.6	74.1	111.1
145	28.2	28.0	42.0

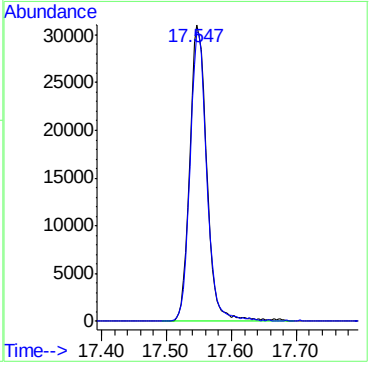




#100
1,2,4-trichlorobenzene
Concen: 50.71 ug/L
RT: 17.547 min Scan# 4040
Delta R.T. -0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

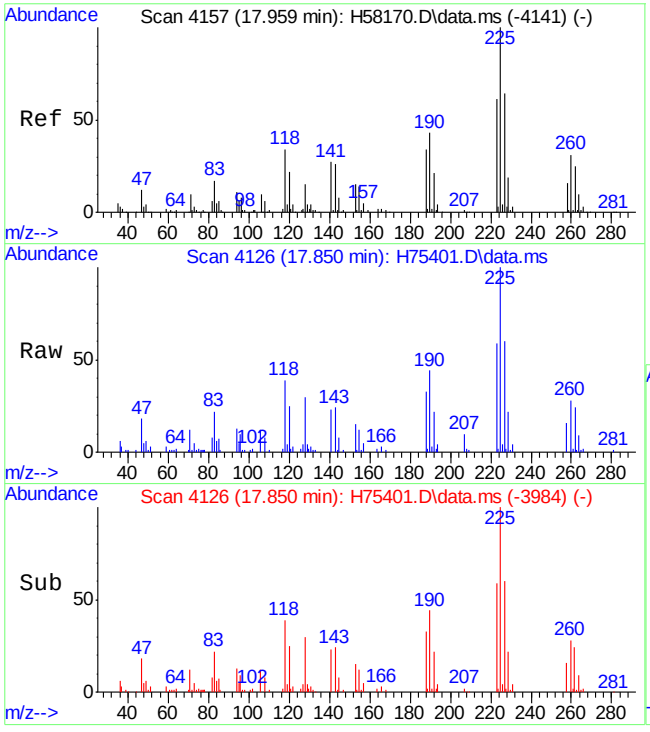
Tgt Ion:180 Resp: 57783

Ion	Ratio	Lower	Upper
180	100		
182	97.7	62.6	122.6



7.4.4

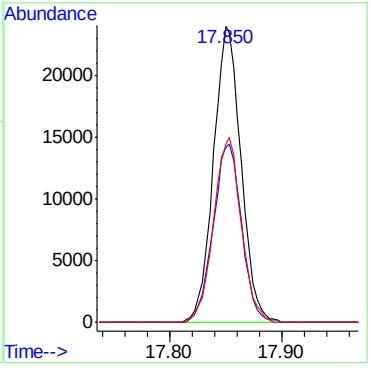
7

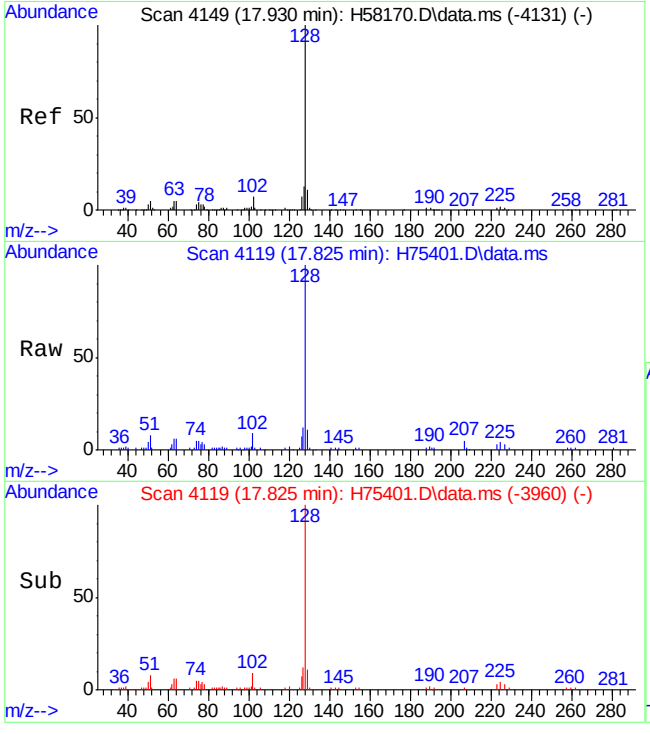


#101
hexachlorobutadiene
Concen: 48.37 ug/L
RT: 17.850 min Scan# 4126
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:225 Resp: 41072

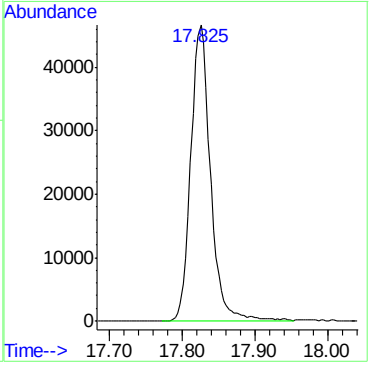
Ion	Ratio	Lower	Upper
225	100		
223	59.1	29.7	89.7
227	62.3	32.4	92.4





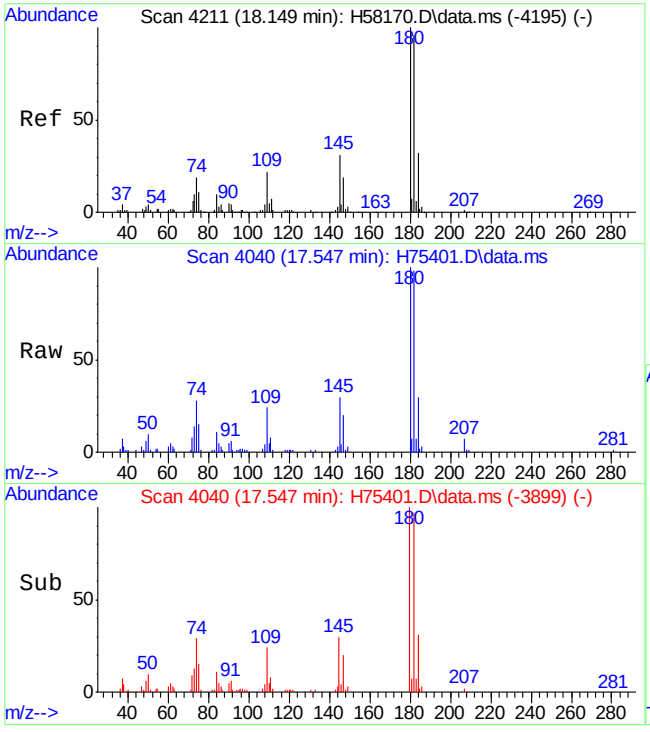
#102
naphthalene
Concen: 51.82 ug/L
RT: 17.825 min Scan# 4119
Delta R.T. 0.001 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:128 Resp: 88269



7.4.4

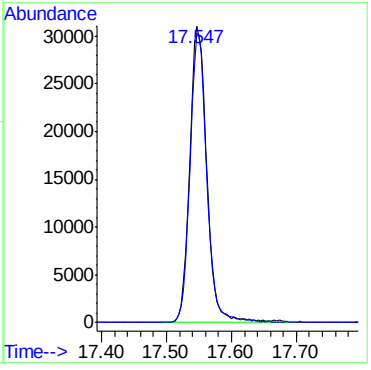
7



#103
1,2,3-trichlorobenzene
Concen: 50.71 ug/L
RT: 17.547 min Scan# 4040
Delta R.T. -0.002 min
Lab File: H75401.D
Acq: 6 Oct 15 8:26 pm

Tgt Ion:180 Resp: 57783

Ion	Ratio	Lower	Upper
180	100		
182	97.7	64.3	124.3



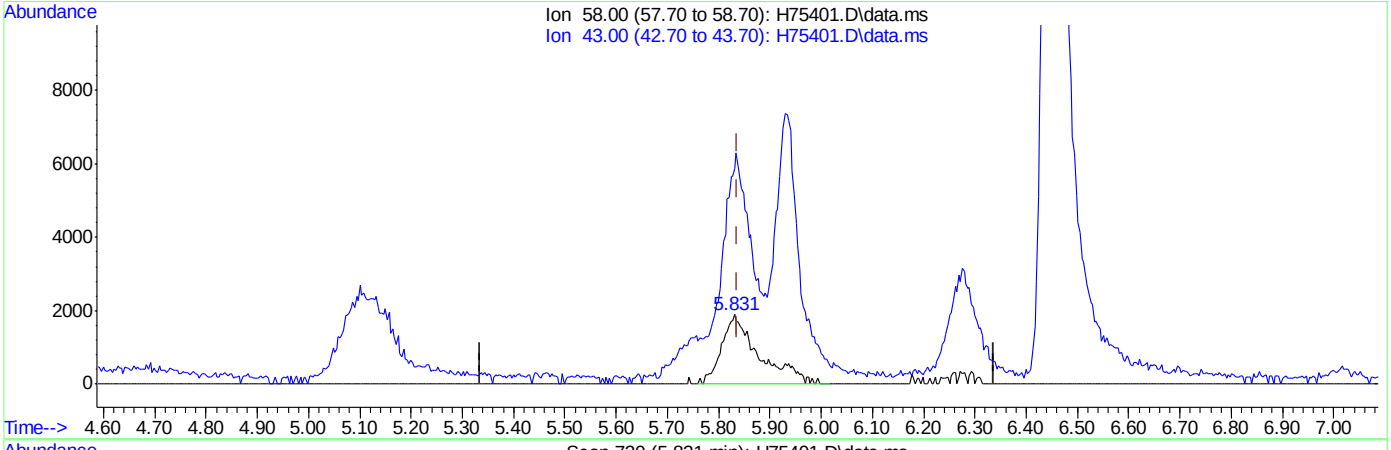
7.4.4

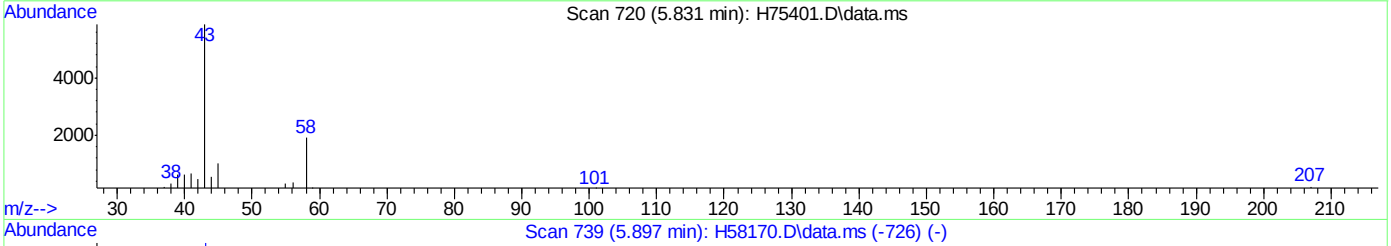
7

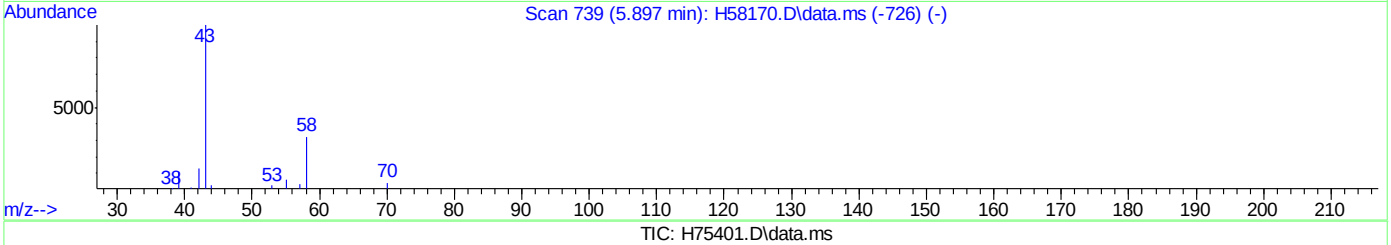
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:20:50 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75401.D\data.ms

(15) acetone (p)

5.831min (-0.006) 54.04ug/L

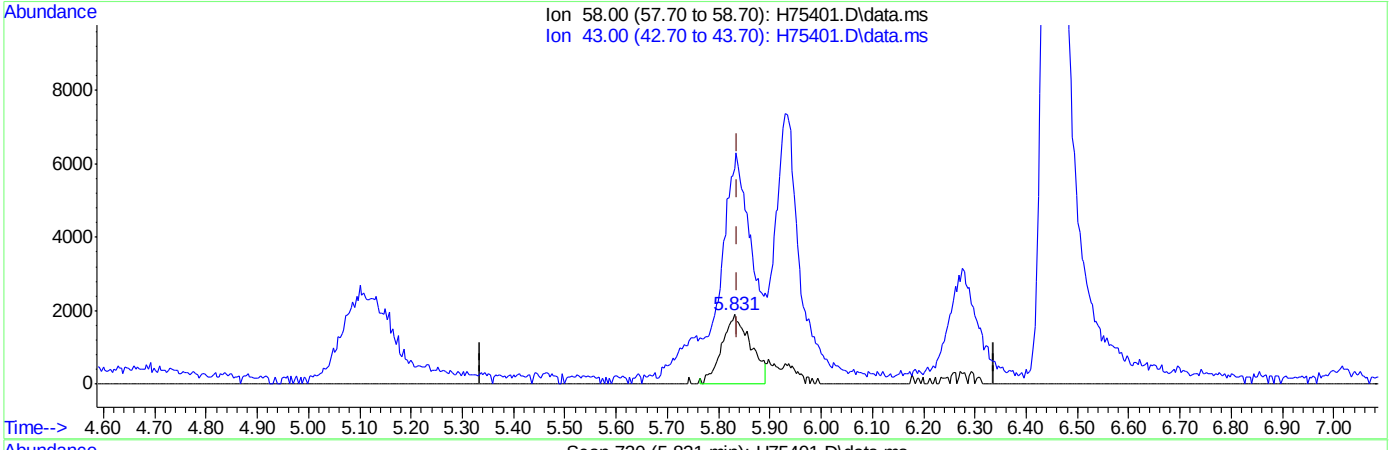
response 9527

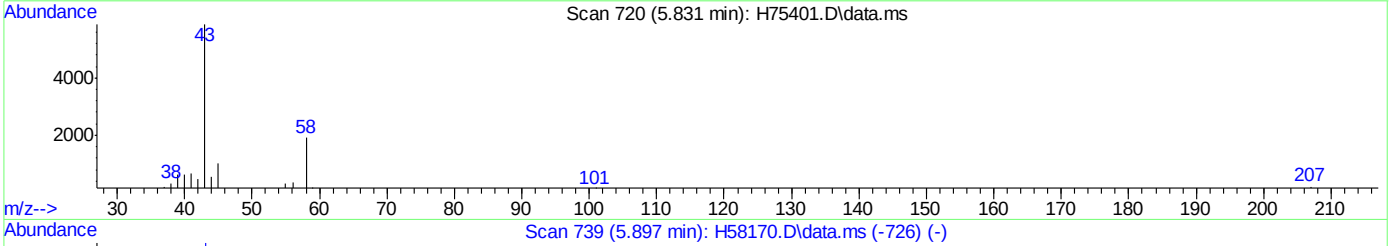
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	280.08
0.00	0.00	0.00
0.00	0.00	0.00

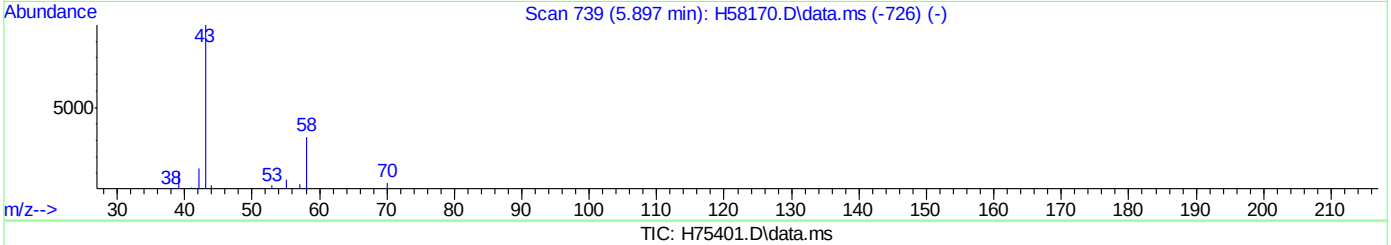
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:20:50 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75401.D\data.ms

(15) acetone (p)

5.831min (-0.006) 41.80ug/L m

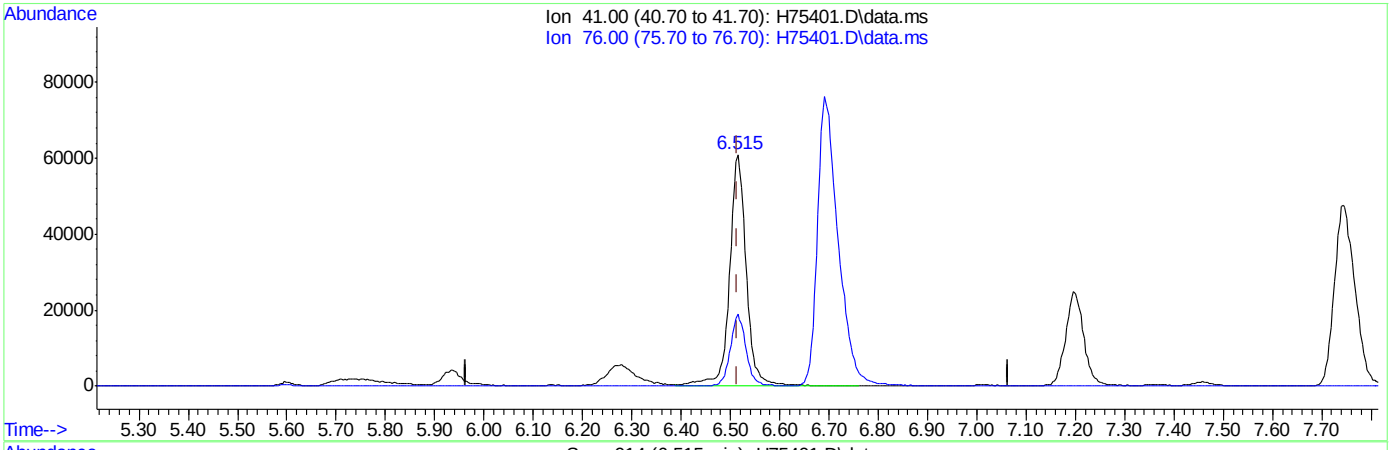
response 7370

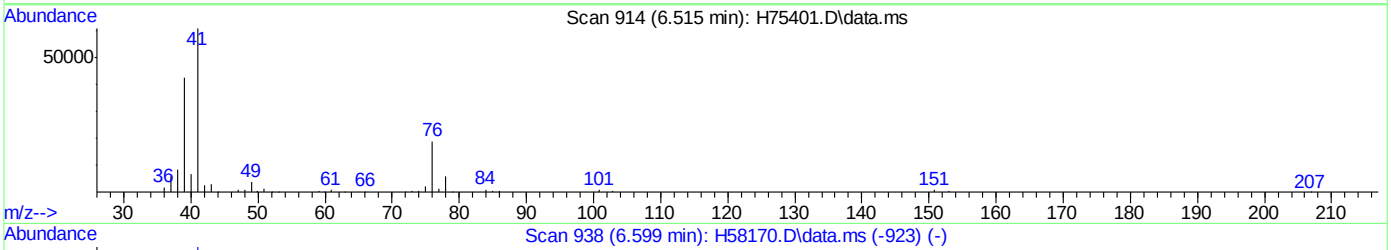
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	309.22
0.00	0.00	0.00
0.00	0.00	0.00

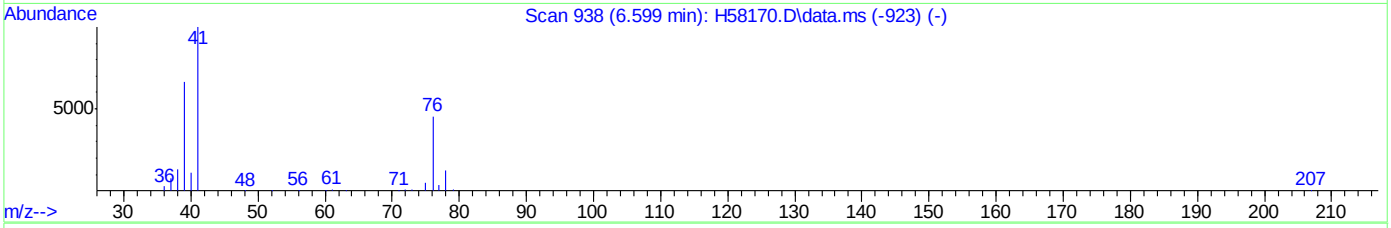
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:20:50 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75401.D\data.ms

(21) allyl chloride (p)

6.515min (+0.001) 49.56ug/L

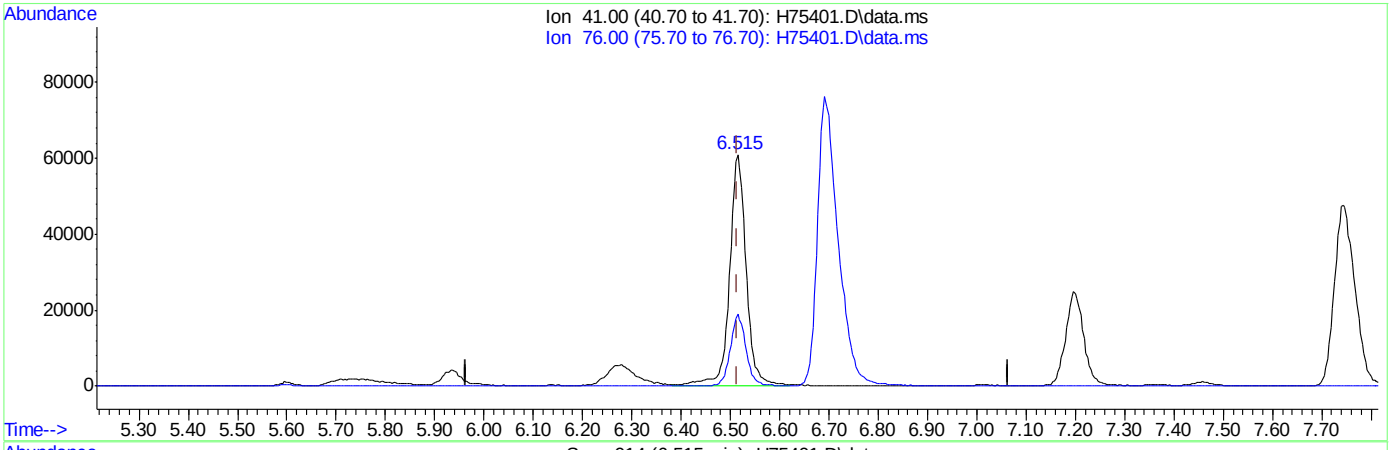
response 145722

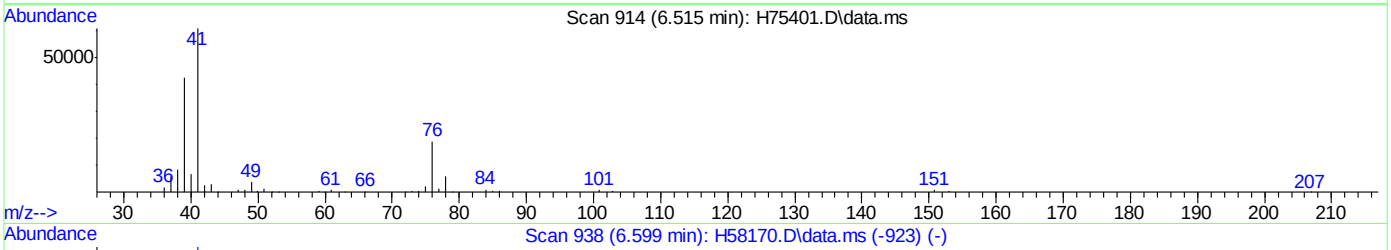
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.00
0.00	0.00	0.00
0.00	0.00	0.00

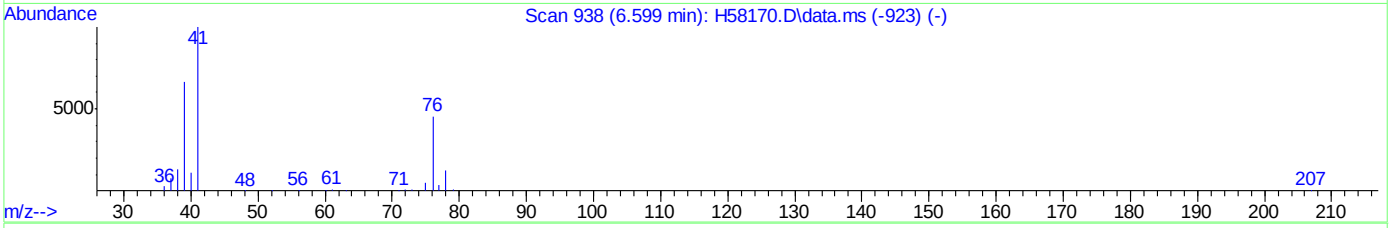
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75401.D
Acq On : 6 Oct 2015 8:26 pm
Operator : kaylap
Sample : mc41758-1msd
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 08:20:50 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75401.D\data.ms

(21) allyl chloride (p)

6.515min (+0.001) 49.07ug/L m

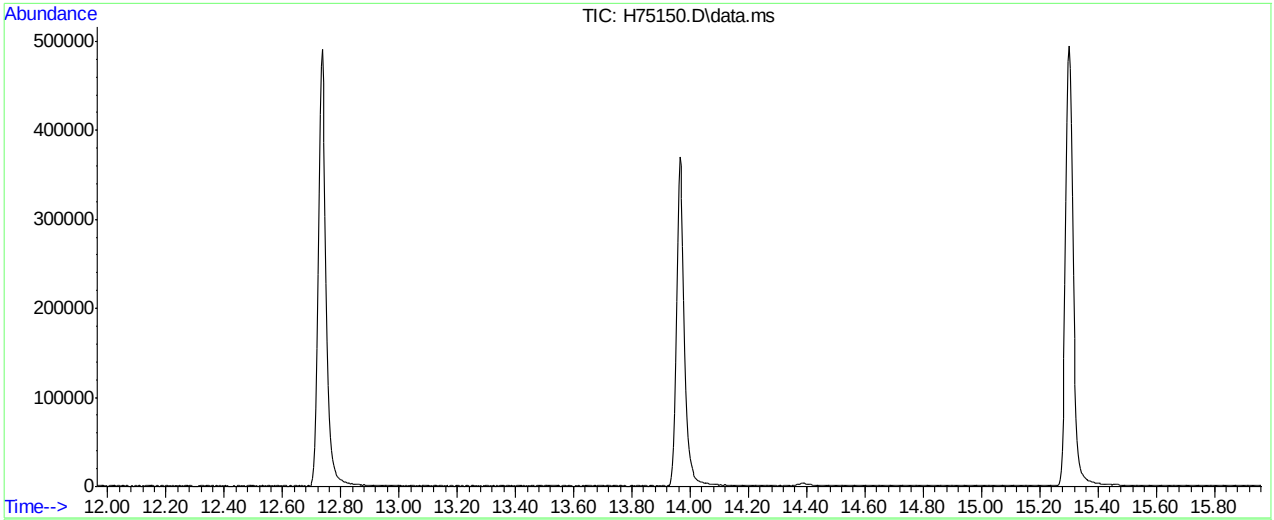
response 144283

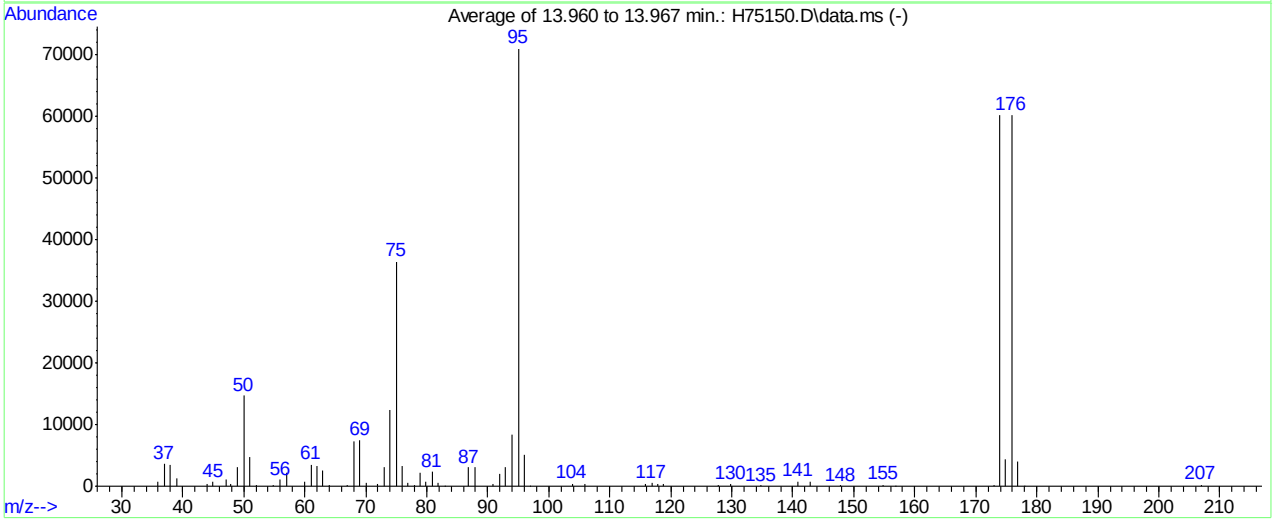
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\H150925\H75150.D Vial: 2
Acq On : 25 Sep 2015 2:56 pm Operator: kaylap
Sample : bfb Inst : MSH
Misc : ms35288,msh2500,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title : SW-846 Method 8260





Spectrum Information: Average of 13.960 to 13.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	14709	PASS
75	95	30	60	51.3	36365	PASS
95	95	100	100	100.0	70914	PASS
96	95	5	9	7.2	5116	PASS
173	174	0.00	2	0.2	145	PASS
174	95	50	150	84.8	60112	PASS
175	174	5	9	7.4	4433	PASS
176	174	95	101	100.1	60160	PASS
177	176	5	9	6.7	4035	PASS

H75150.D H150925W.M Mon Sep 28 11:40:06 2015

Average of 13.960 to 13.967 min.: H75150.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	649	52.00	210	69.00	7458	80.90	2313
37.00	3610	54.90	159	70.00	530	81.85	500
38.00	3404	56.00	1085	71.90	291	82.90	58
39.00	1314	57.00	2189	73.00	3107	86.90	3084
44.00	431	60.00	692	74.00	12312	87.90	3023
45.00	702	61.00	3477	75.00	36365	90.90	286
47.05	1055	62.00	3226	76.00	3329	91.95	2081
47.95	433	63.00	2569	76.90	489	92.95	3066
49.00	3067	63.95	243	77.95	242	94.00	8399
50.00	14709	66.90	189	78.90	2119	95.00	70914
51.00	4645	68.00	7347	79.90	670	96.00	5116

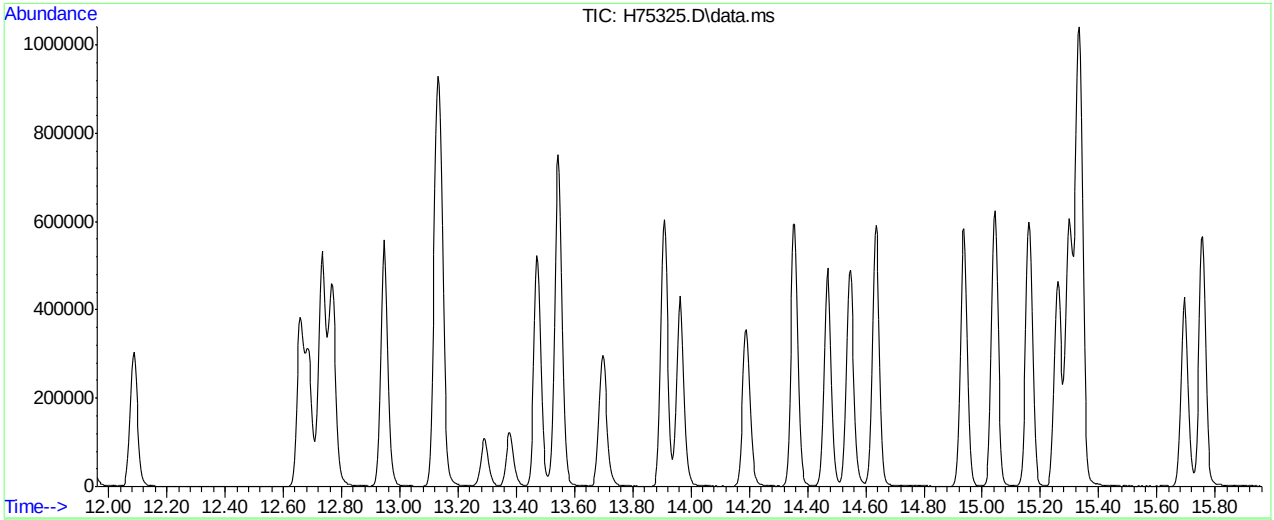
Average of 13.960 to 13.967 min.: H75150.D\data.ms
bfb
Modified:subtracted

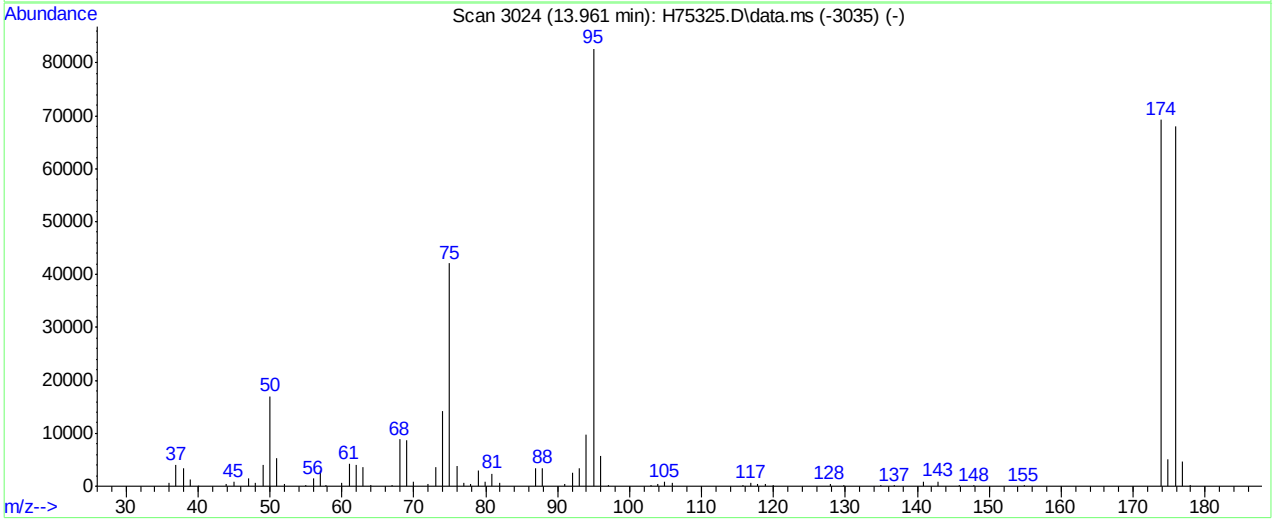
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.90	57	142.90	739				
103.85	419	147.85	182				
105.85	396	154.85	189				
115.85	282	156.90	55				
116.90	487	172.90	145				
117.80	288	173.90	60112				
118.85	377	174.90	4433				
127.85	259	175.90	60160				
129.85	293	176.90	4035				
134.80	105	177.90	55				
140.90	766	206.90	215				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\H151005\H75325.D Vial: 4
Acq On : 5 Oct 2015 10:20 am Operator: kaylap
Sample : bfb Inst : MSH
Misc : ms35328,msh2507,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title : SW-846 Method 8260





Spectrum Information: Scan 3024

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	17031	PASS
75	95	30	60	51.0	42159	PASS
95	95	100	100	100.0	82733	PASS
96	95	5	9	6.9	5706	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	83.7	69227	PASS
175	174	5	9	7.4	5104	PASS
176	174	95	101	98.2	67962	PASS
177	176	5	9	6.9	4681	PASS

H75325.D H150925W.M Mon Oct 05 11:01:58 2015

Scan 3024 (13.961 min): H75325.D\data.ms (-3035)
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	735	51.00	5365	66.90	256	78.90	2878
36.95	3937	52.00	353	68.00	8887	79.90	806
38.00	3457	55.00	307	69.00	8696	80.85	2424
39.00	1299	56.00	1417	70.00	876	81.90	560
39.95	66	57.00	2874	71.90	422	86.90	3459
43.95	503	57.80	177	73.00	3591	87.90	3485
45.00	841	59.90	706	73.95	14293	90.90	339
47.00	1393	61.00	4209	75.00	42159	92.00	2466
48.00	608	62.00	4055	76.00	3754	93.00	3359
49.00	3955	63.00	3579	77.00	618	93.95	9761
50.00	17031	64.00	297	77.90	496	95.00	82733

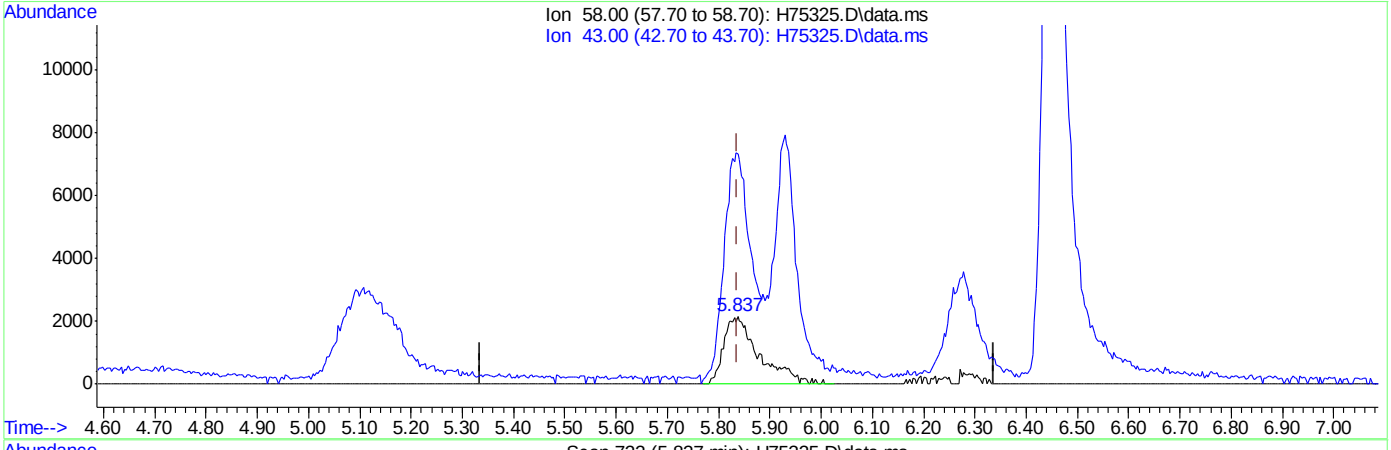
Scan 3024 (13.961 min): H75325.D\data.ms (-3035)
bfb
Modified:subtracted

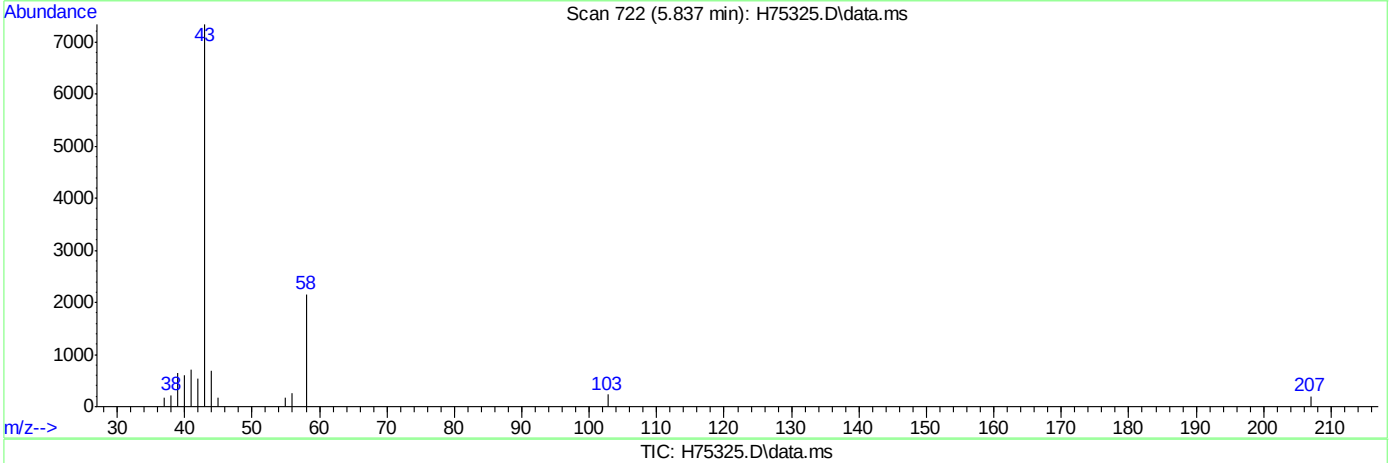
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	5706	127.90	339	175.90	67962		
97.00	301	129.80	322	176.90	4681		
103.00	220	134.90	159	177.90	175		
103.90	360	136.80	191				
104.90	786	140.90	868				
105.90	588	142.90	917				
115.80	311	145.80	165				
116.90	590	147.90	210				
117.80	383	154.80	209				
118.90	525	173.90	69227				
119.90	233	174.85	5104				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:44:36 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration





TIC: H75325.D\data.ms

(15) acetone (p)

5.837min (+0.000) 54.52ug/L

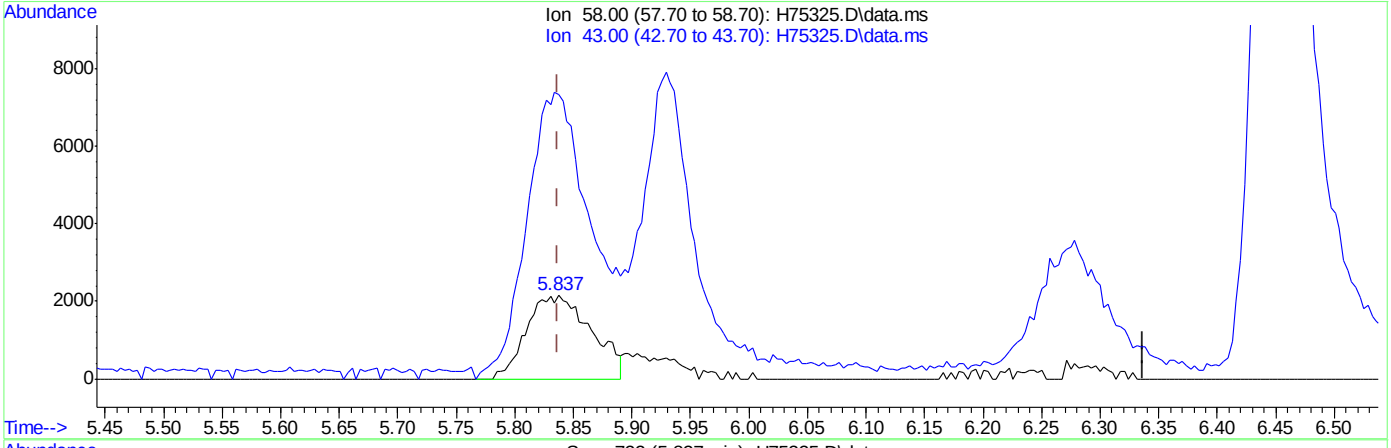
response 10320

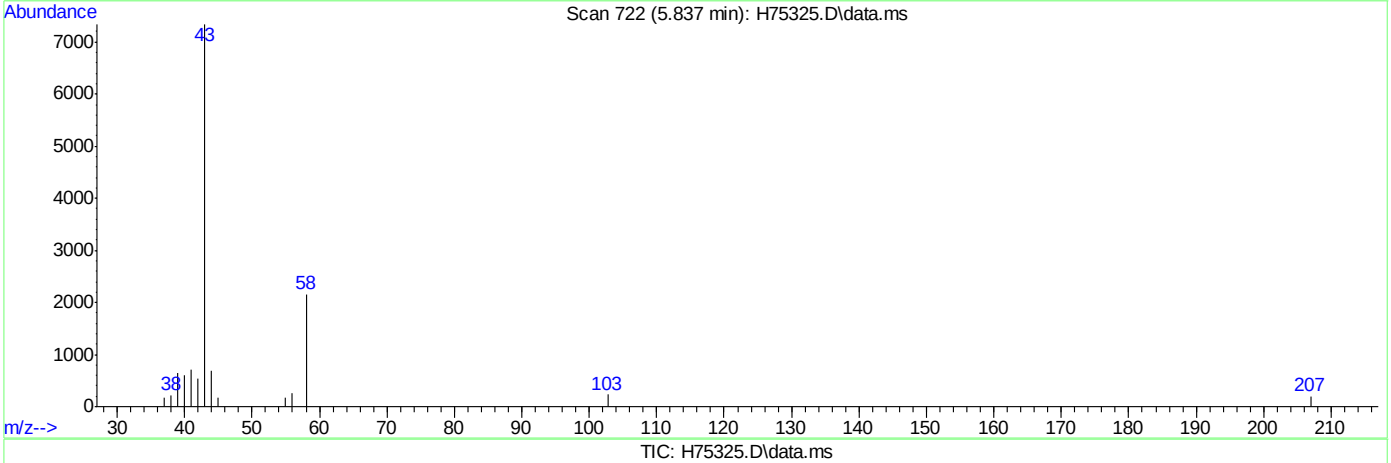
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	333.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:44:36 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration





TIC: H75325.D\data.ms

(15) acetone (p)

5.837min (+0.000) 43.50ug/L m

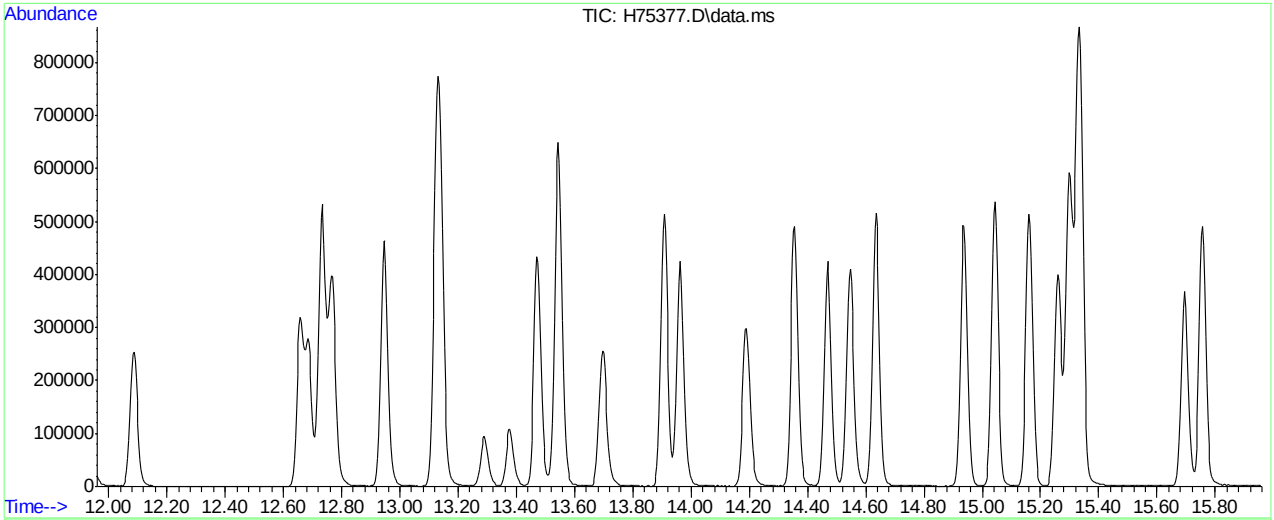
response 8234

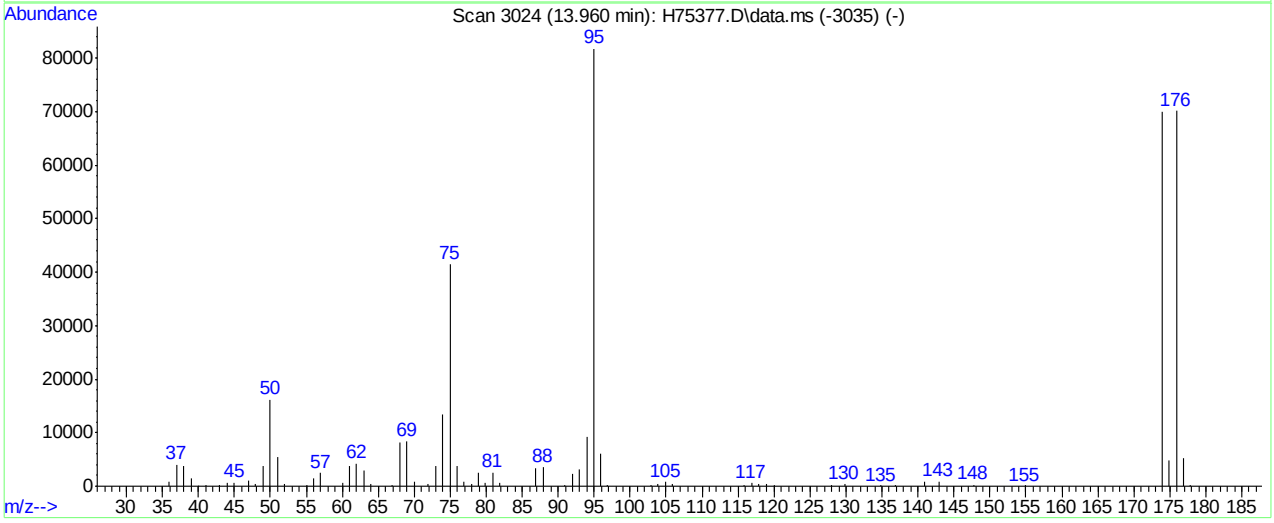
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	340.19#
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\H151006\H75377.D Vial: 1
Acq On : 6 Oct 2015 9:33 am Operator: kaylap
Sample : bfb Inst : MSH
Misc : ms35362,msh2509,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title : SW-846 Method 8260





Spectrum Information: Scan 3024

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	16157	PASS
75	95	30	60	50.7	41494	PASS
95	95	100	100	100.0	81799	PASS
96	95	5	9	7.4	6082	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	85.7	70072	PASS
175	174	5	9	6.9	4826	PASS
176	174	95	101	100.0	70103	PASS
177	176	5	9	7.3	5141	PASS

H75377.D H150925W.M Tue Oct 06 09:58:23 2015

Scan 3024 (13.960 min): H75377.D\data.ms (-3035)
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	750	49.00	3678	64.00	332	78.00	376
37.00	4008	50.00	16157	66.90	226	78.90	2517
38.00	3712	51.00	5352	68.00	8282	79.90	720
39.00	1567	52.00	347	69.00	8460	80.90	2519
39.90	89	55.00	285	70.00	793	81.90	534
41.00	202	56.00	1381	71.90	415	86.90	3399
42.90	211	57.00	2471	73.00	3754	87.90	3660
43.95	621	60.00	626	74.00	13425	90.90	273
45.00	726	61.00	3877	75.00	41494	92.00	2228
47.00	1129	62.00	4200	76.00	3727	93.00	3206
47.90	501	63.00	2940	76.90	764	93.95	9221

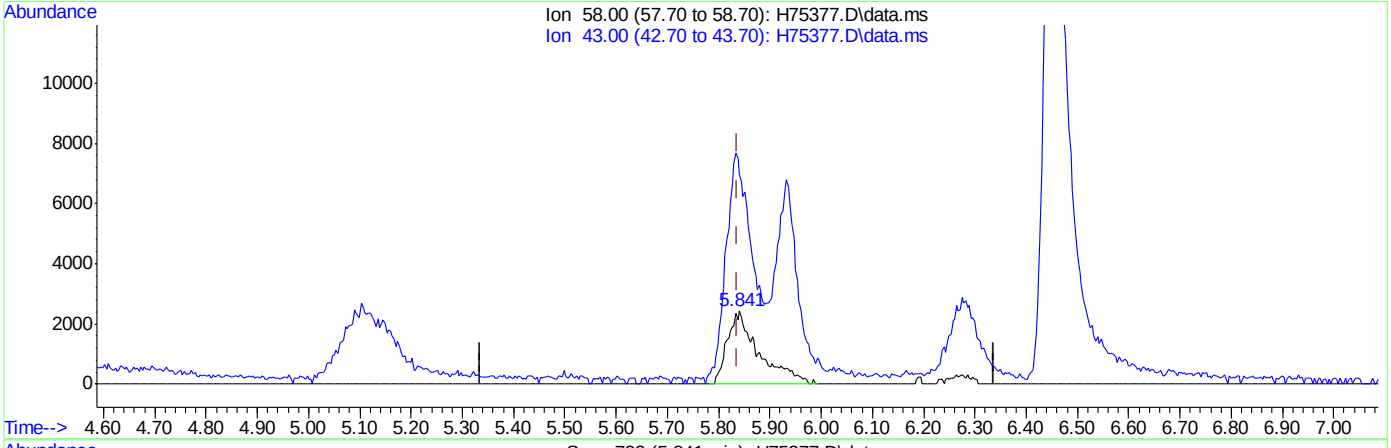
Scan 3024 (13.960 min): H75377.D\data.ms (-3035)
bfb
Modified:subtracted

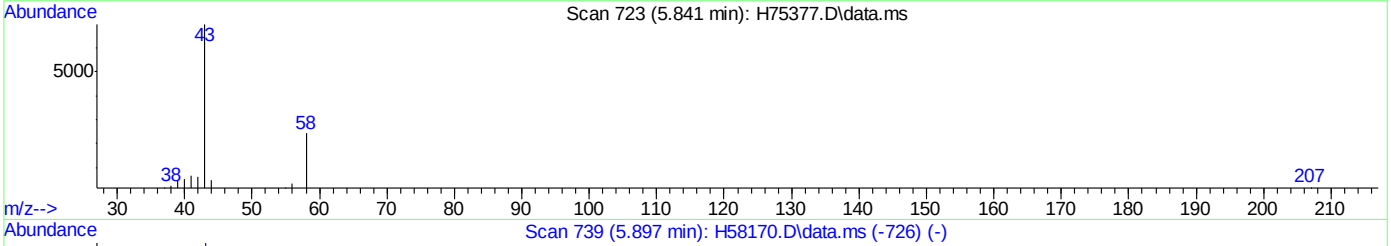
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	81799	120.00	304	175.90	70103		
95.95	6082	127.90	295	176.90	5141		
96.90	260	129.80	404	177.80	165		
102.90	192	134.90	195				
103.90	455	136.80	181				
105.00	812	140.90	842				
105.90	489	142.90	894				
115.80	308	147.70	215				
116.90	623	154.90	200				
117.80	325	173.90	70072				
118.90	473	174.90	4826				

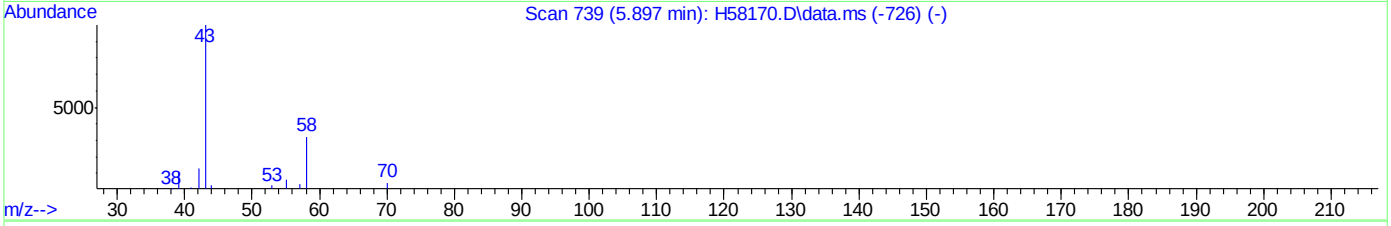
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75377.D
Acq On : 6 Oct 2015 9:33 am
Operator : kaylap
Sample : bfb
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 06 09:56:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75377.D\data.ms

(15) acetone (p)

5.841min (+0.004) 52.88ug/L

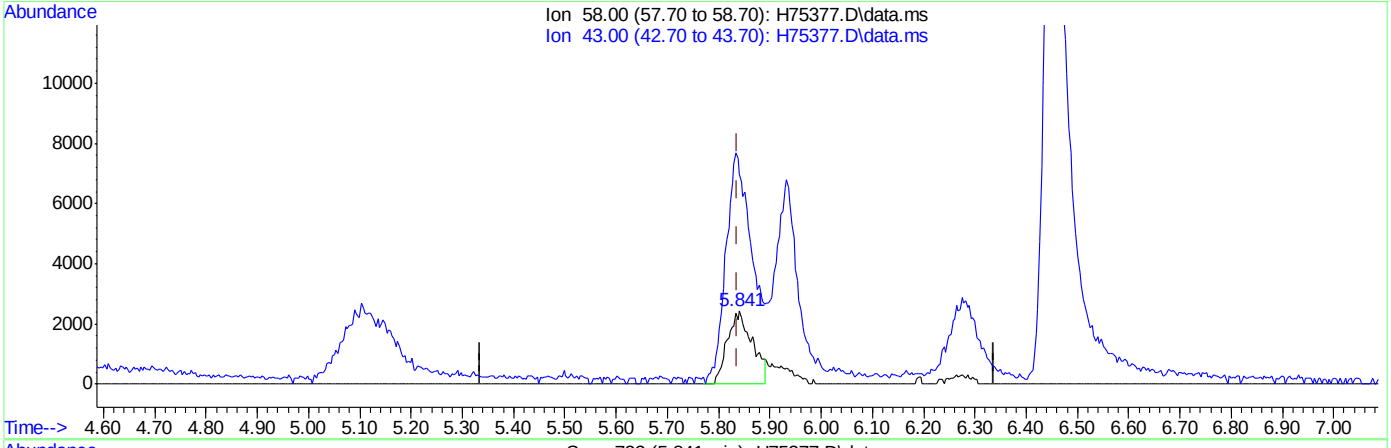
response 10414

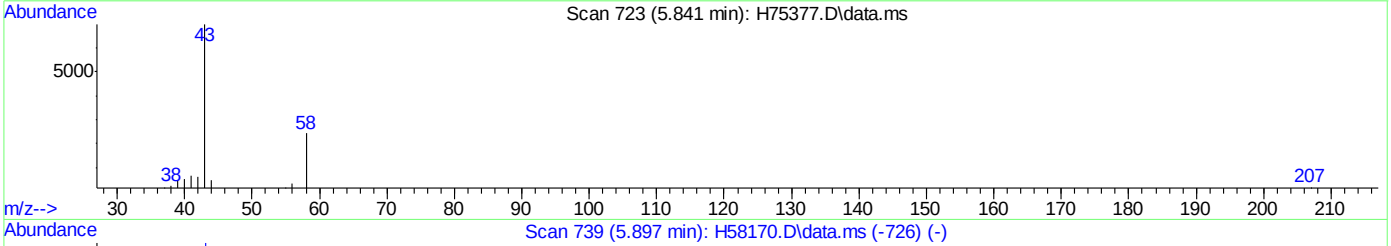
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	273.71
0.00	0.00	0.00
0.00	0.00	0.00

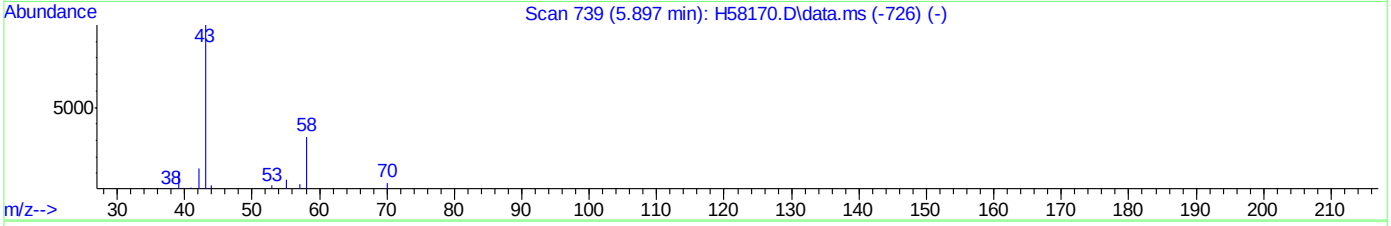
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75377.D
Acq On : 6 Oct 2015 9:33 am
Operator : kaylap
Sample : bfb
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 06 09:56:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75377.D\data.ms

(15) acetone (p)

5.841min (+0.004) 41.43ug/L m

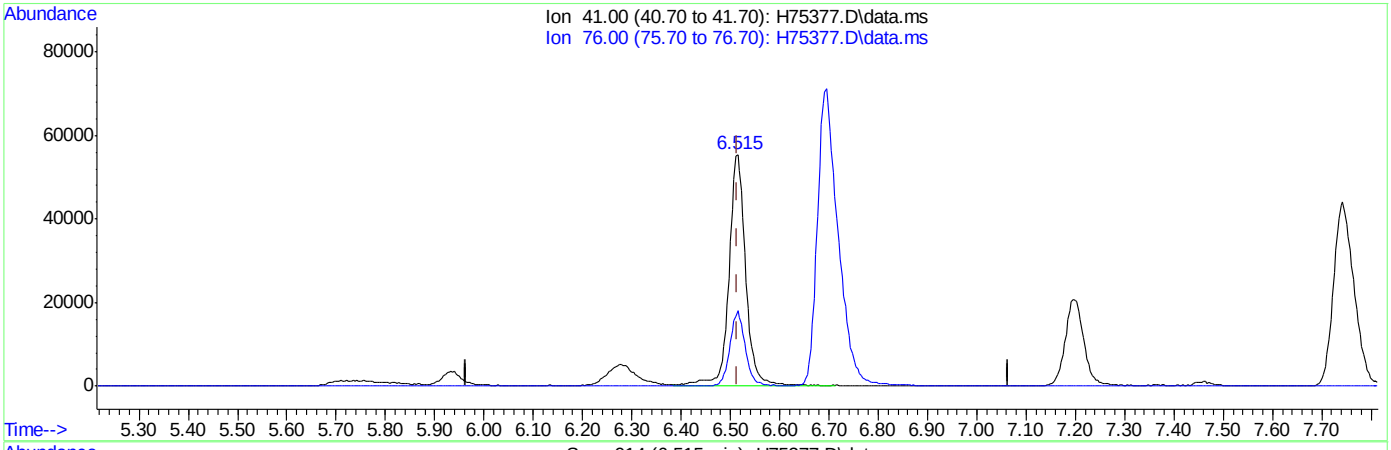
response 8158

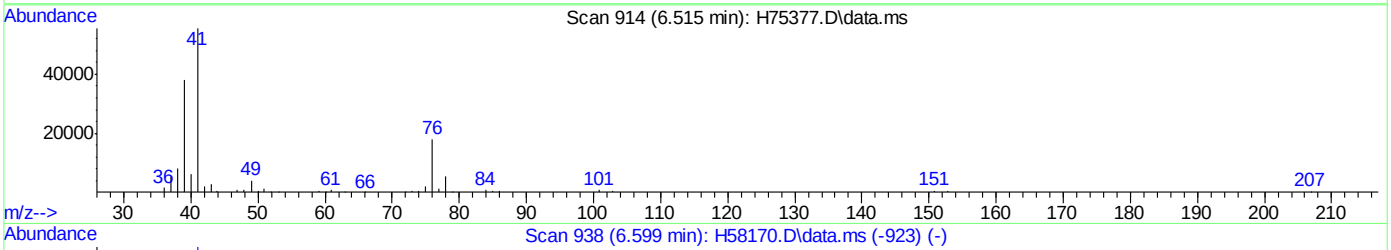
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	287.76
0.00	0.00	0.00
0.00	0.00	0.00

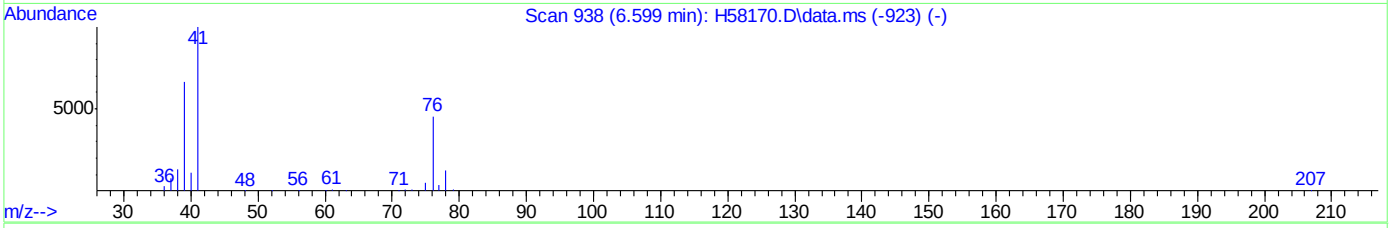
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75377.D
Acq On : 6 Oct 2015 9:33 am
Operator : kaylap
Sample : bfb
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 06 09:56:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75377.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 40.24ug/L

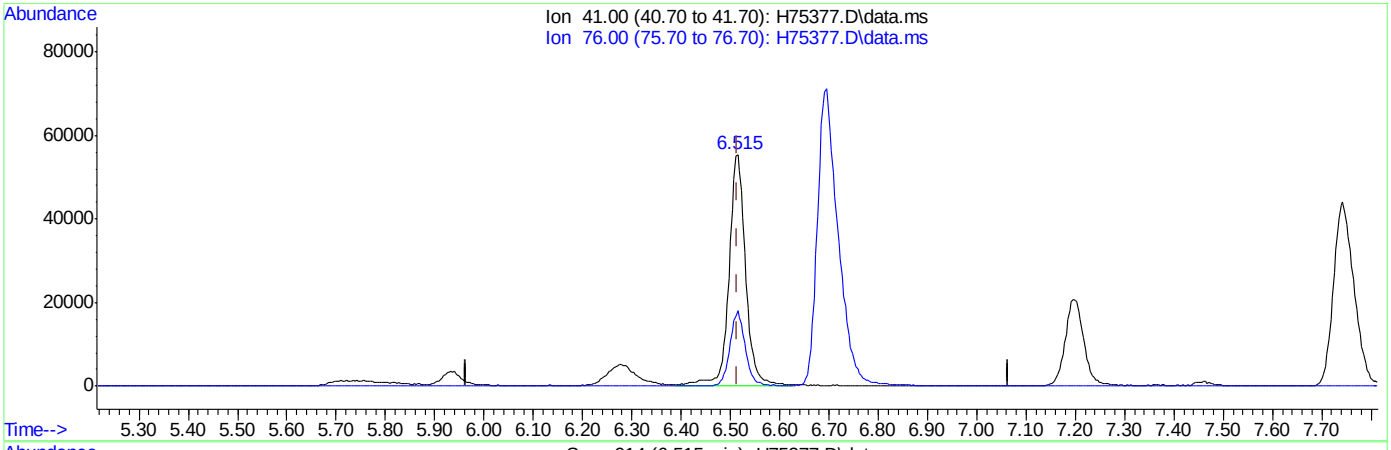
response 132140

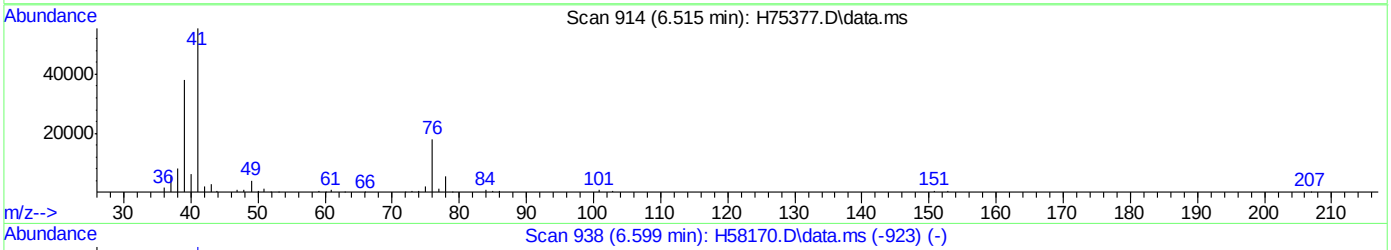
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	32.57
0.00	0.00	0.00
0.00	0.00	0.00

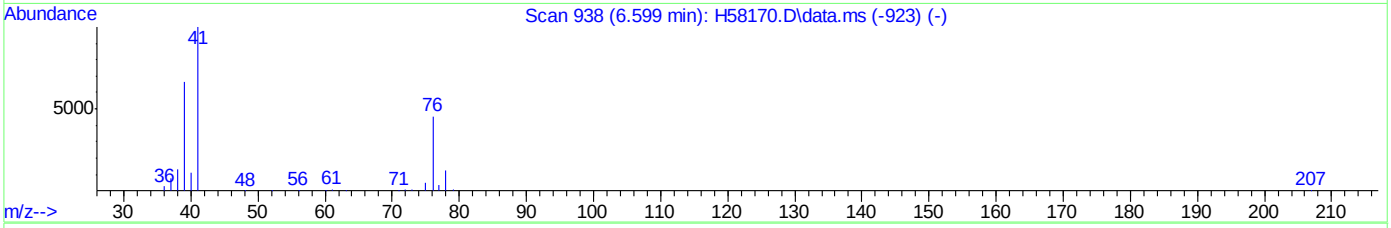
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75377.D
Acq On : 6 Oct 2015 9:33 am
Operator : kaylap
Sample : bfb
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 06 09:56:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75377.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 39.86ug/L m

response 130888

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	32.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:57:14 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.196	65	74469	500.00	ug/L	0.00
4) pentafluorobenzene	8.613	168	184221	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.481	114	291741	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	163169	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	148275m	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	95292	51.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.52%			
60) toluene-d8 (s)	11.277	98	355323	50.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.28%			
82) bromofluorobenzene (s)	13.962	95	142320	50.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.64%			
Target Compounds						Qvalue
46) benzene	9.287	78	3548	0.50	ug/L	92
51) trichloroethene	9.908	95	792	0.41	ug/L #	81
59) cis-1,3-dichloropropene	10.589	75	1028	0.37	ug/L	47
63) trans-1,3-dichloropropene	11.019	75	746	0.28	ug/L	51
67) tetrachloroethene	12.099	166	785	0.42	ug/L #	70
69) dibromochloromethane	11.693	129	488m	0.30	ug/L	
75) m,p-xylene	13.154	106	2479	0.80	ug/L #	76
76) o-xylene	13.553	106	1324	0.43	ug/L	85
84) 1,1,2,2-tetrachloroethane	13.564	83	811	0.41	ug/L	72

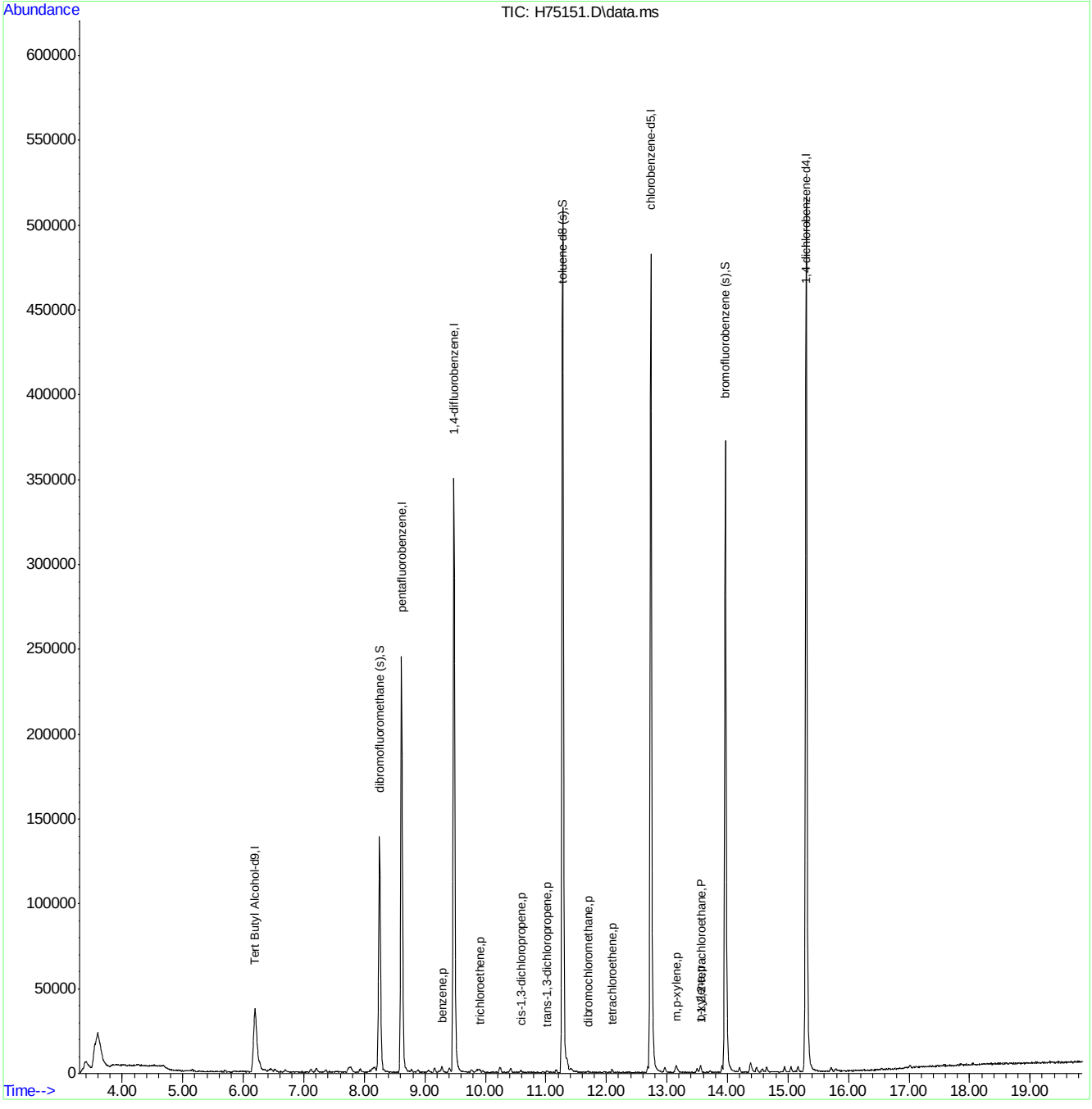
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:57:14 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration

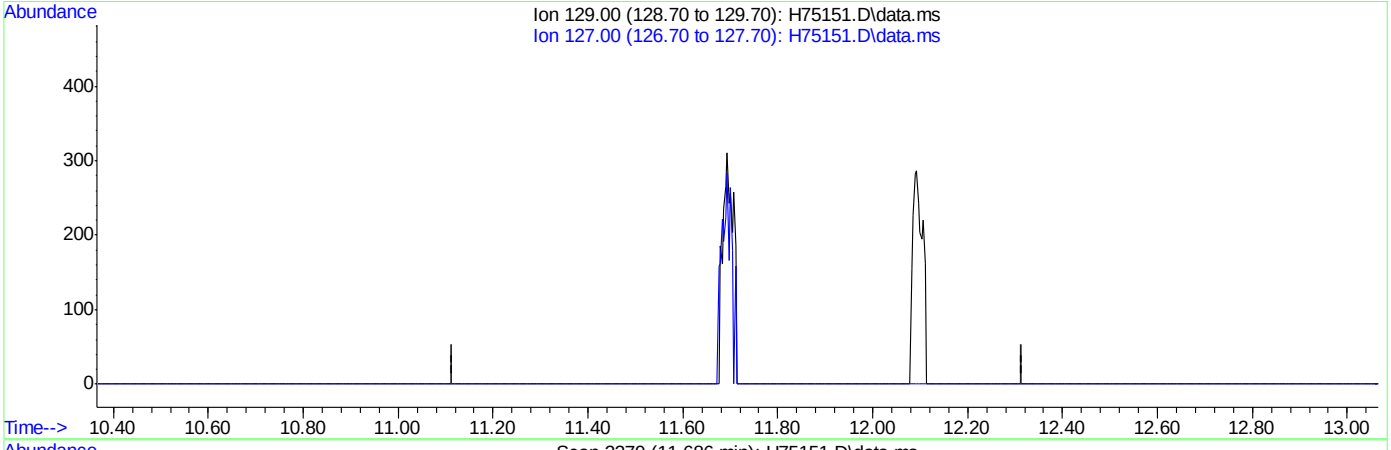


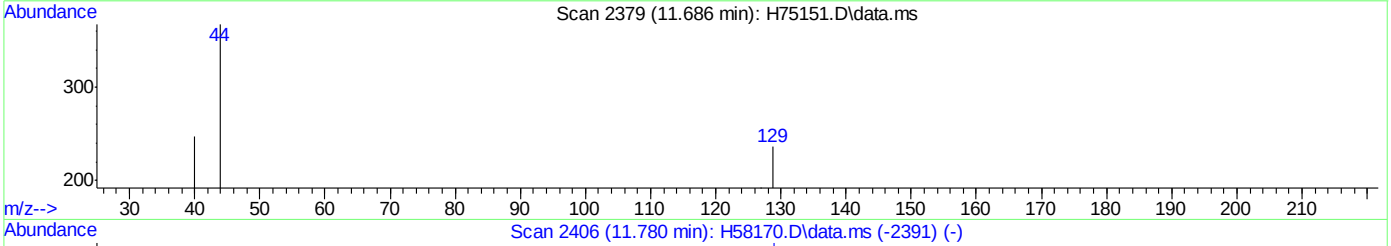
ACCUTEST LABORATORIES MC41696

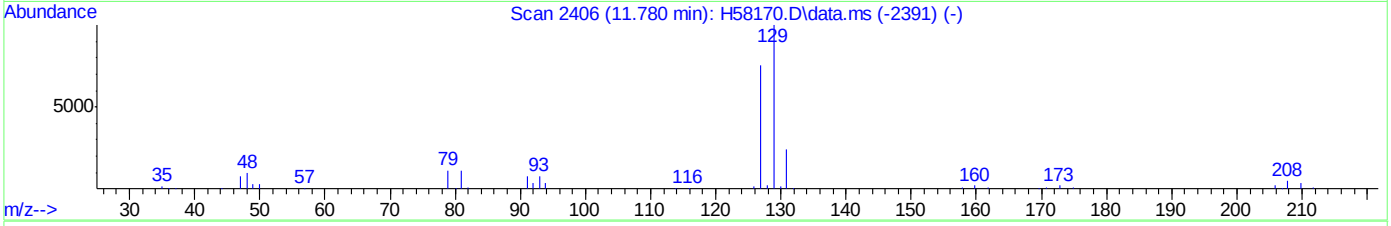
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(69) dibromochloromethane (p)

11.685min (-11.685) 0.00ug/L

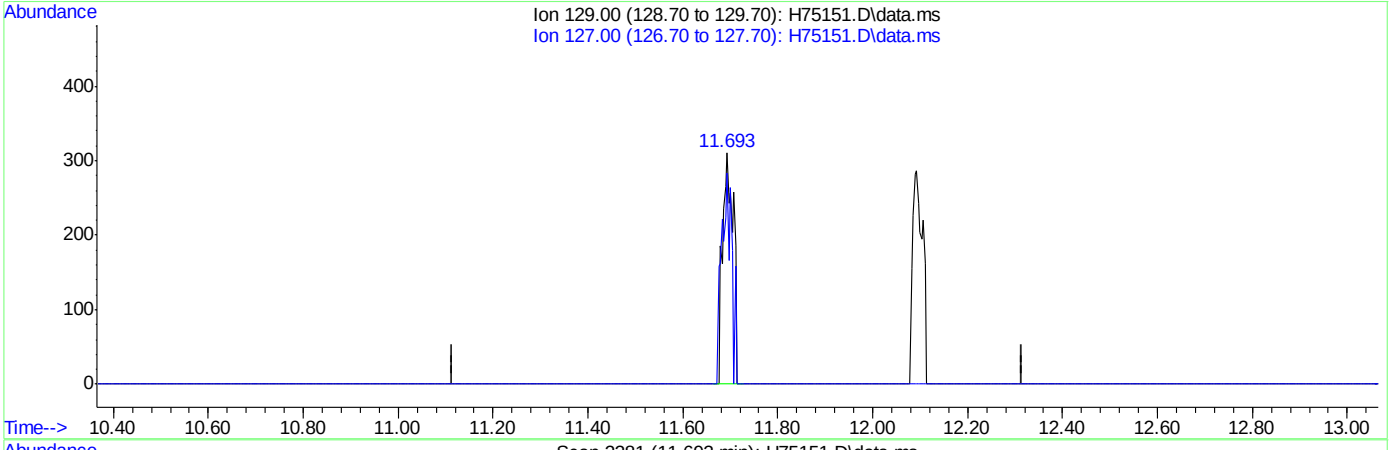
response 0

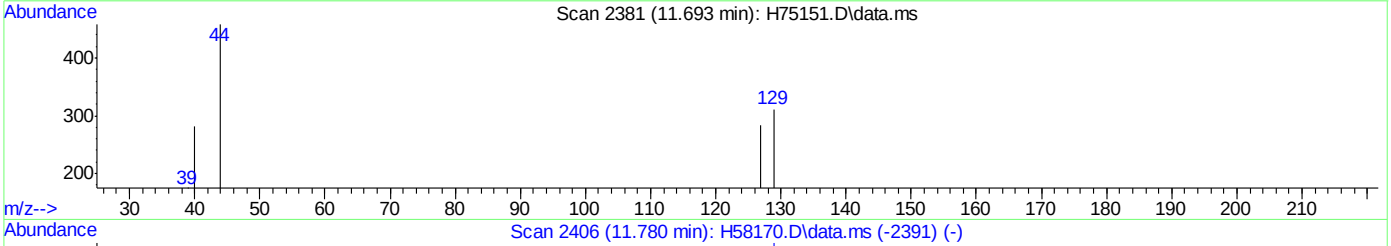
Ion	Exp%	Act%
129.00	100	0.00
127.00	78.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

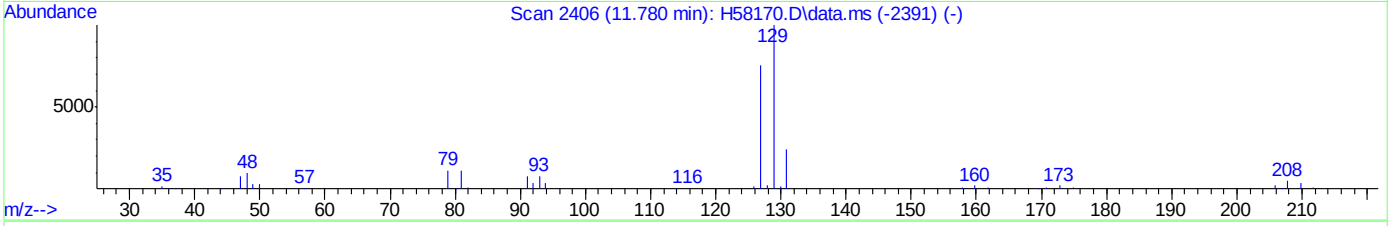
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(69) dibromochloromethane (p)

11.693min (+0.008) 0.30ug/L m

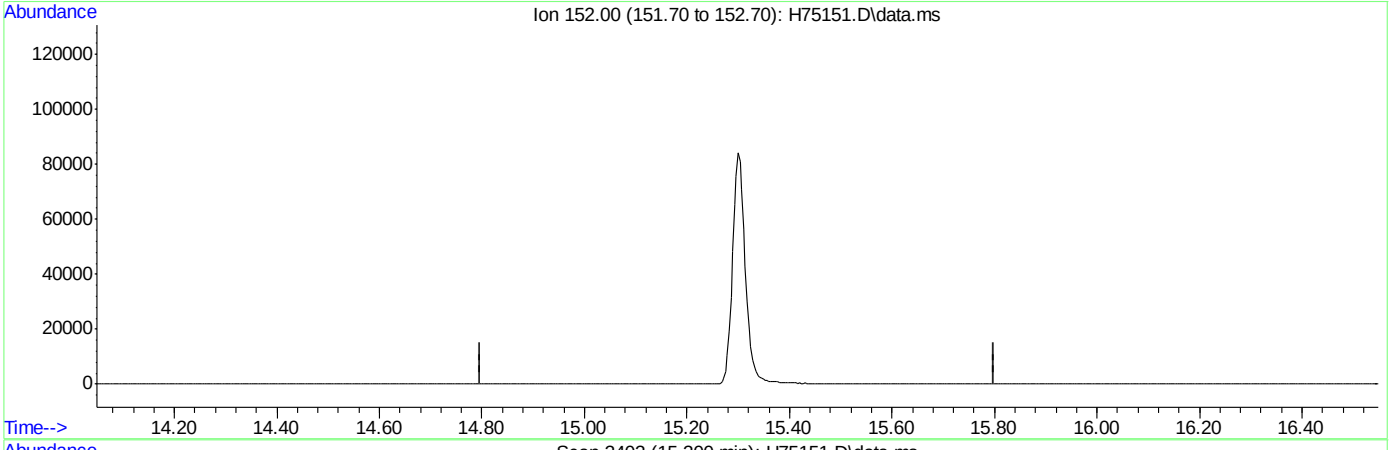
response 488

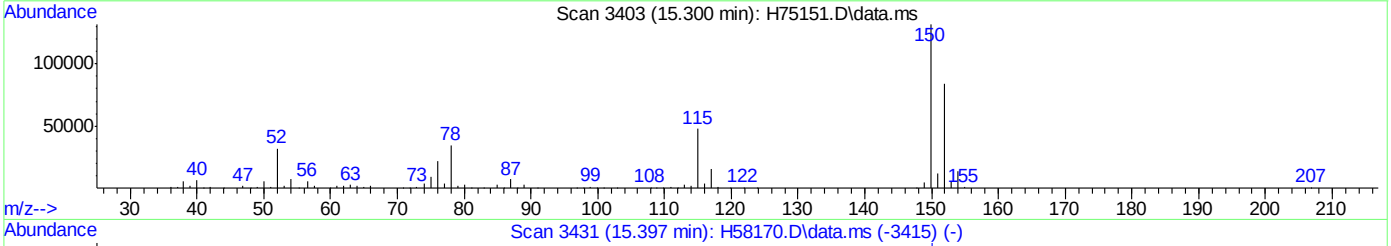
Ion	Exp%	Act%
129.00	100	100
127.00	78.10	91.00
0.00	0.00	0.00
0.00	0.00	0.00

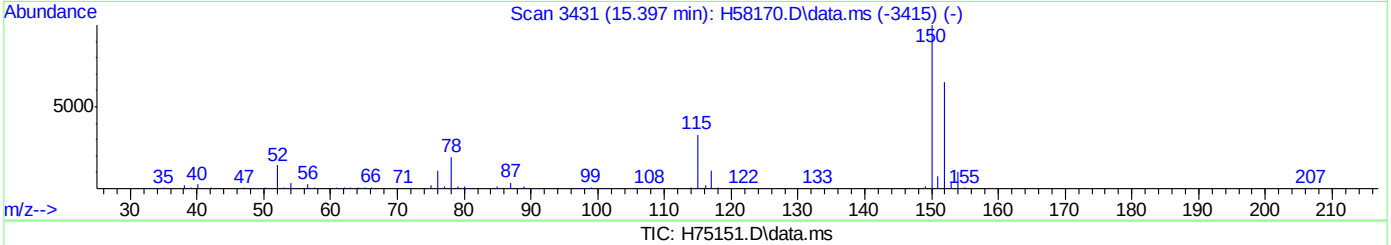
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(80) 1,4-dichlorobenzene-d4 (I)

15.299min 0.00ug/L d

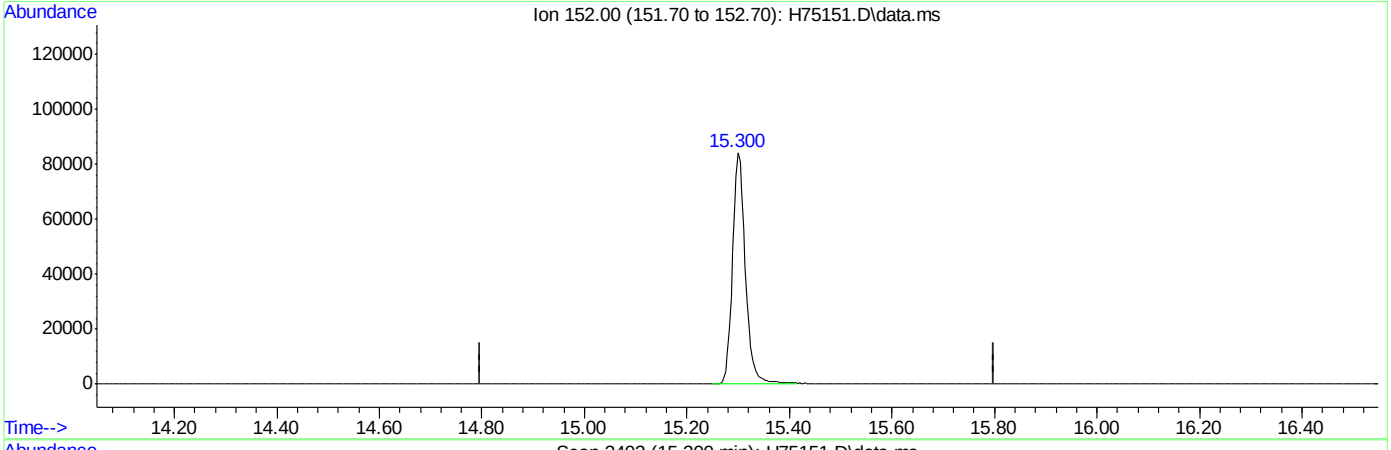
response 0

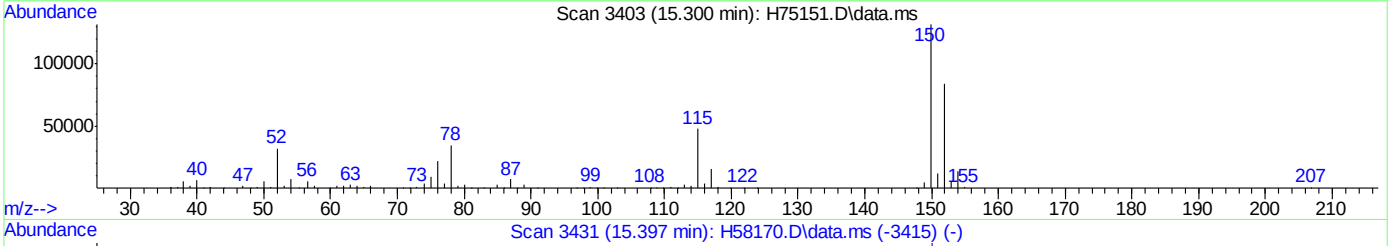
Ion	Exp%	Act%
152.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

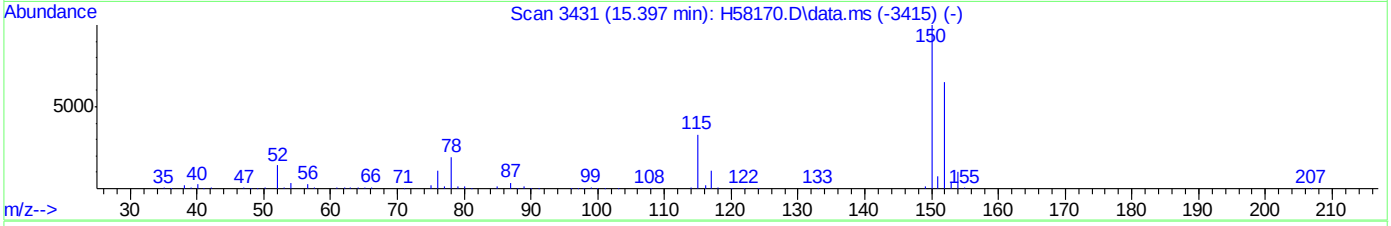
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(80) 1,4-dichlorobenzene-d4 (I)

15.300min (+0.001) 50.00ug/L m

response 148275

Ion	Exp%	Act%
152.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75152.D
Acq On : 25 Sep 2015 3:49 pm
Operator : kaylap
Sample : ic2500-1
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:01:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:57:50 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.197	65	73578	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	187573	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.483	114	296310	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	159481	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	148661	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	97061	50.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.28%			
60) toluene-d8 (s)	11.275	98	347833	48.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.52%			
82) bromofluorobenzene (s)	13.964	95	142094	50.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.40%			
Target Compounds						Qvalue
7) vinyl chloride	4.493	62	1417	0.72	ug/L	97
11) trichlorofluoromethane	5.696	101	2140	0.73	ug/L	91
14) 1,1-dichloroethene	6.279	96	1523	0.97	ug/L	92
19) methyl tert butyl ether	7.203	73	4947	1.03	ug/L	65
22) trans-1,2-dichloroethene	7.118	96	1892	1.11	ug/L	89
31) 1,1-dichloroethane	7.358	63	3862	1.12	ug/L	96
36) cis-1,2-dichloroethene	7.930	96	2064	1.11	ug/L	87
39) chloroform	8.138	83	3931	1.20	ug/L	90
41) 1,1,1-trichloroethane	8.879	97	2818	1.03	ug/L	88
44) carbon tetrachloride	9.243	117	2057	0.89	ug/L	99
46) benzene	9.282	78	7732	1.08	ug/L	95
48) 1,2-dichloroethane	8.784	62	2954	1.12	ug/L	79
51) trichloroethene	9.903	95	1986	1.12	ug/L #	73
53) dibromomethane	9.850	93	1168	0.96	ug/L	94
59) cis-1,3-dichloropropene	10.587	75	2492	1.01	ug/L	99
62) toluene	11.350	92	4588	1.05	ug/L #	75
63) trans-1,3-dichloropropene	11.011	75	1957	0.93	ug/L	51
64) 1,1,2-trichloroethane	11.173	83	1471	1.01	ug/L	80
67) tetrachloroethene	12.094	166	1904	1.14	ug/L	88
69) dibromochloromethane	11.692	129	1294	1.02	ug/L	93
72) chlorobenzene	12.768	112	5551	1.21	ug/L	81
73) 1,1,1,2-tetrachloroethane	12.690	131	1488	1.00	ug/L	90
74) ethylbenzene	12.959	91	7751	1.00	ug/L	90
75) m,p-xylene	13.142	106	5770	2.12	ug/L	99
76) o-xylene	13.551	106	3053	1.08	ug/L	81
78) bromoform	13.290	173	671	0.67	ug/L	88
84) 1,1,2,2-tetrachloroethane	13.555	83	2129	1.18	ug/L	92
89) 1,3,5-trimethylbenzene	14.642	105	6132	0.94	ug/L	97
91) 1,2,4-trimethylbenzene	15.044	105	6205	0.94	ug/L	93
93) 1,3-dichlorobenzene	15.266	146	4322	1.15	ug/L	99
95) 1,4-dichlorobenzene	15.326	146	5036	1.25	ug/L	89
96) 1,2-dichlorobenzene	15.708	146	3930	1.11	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75152.D
Acq On : 25 Sep 2015 3:49 pm
Operator : kaylap
Sample : ic2500-1
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:01:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:57:50 2015
Response via : Initial Calibration

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

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

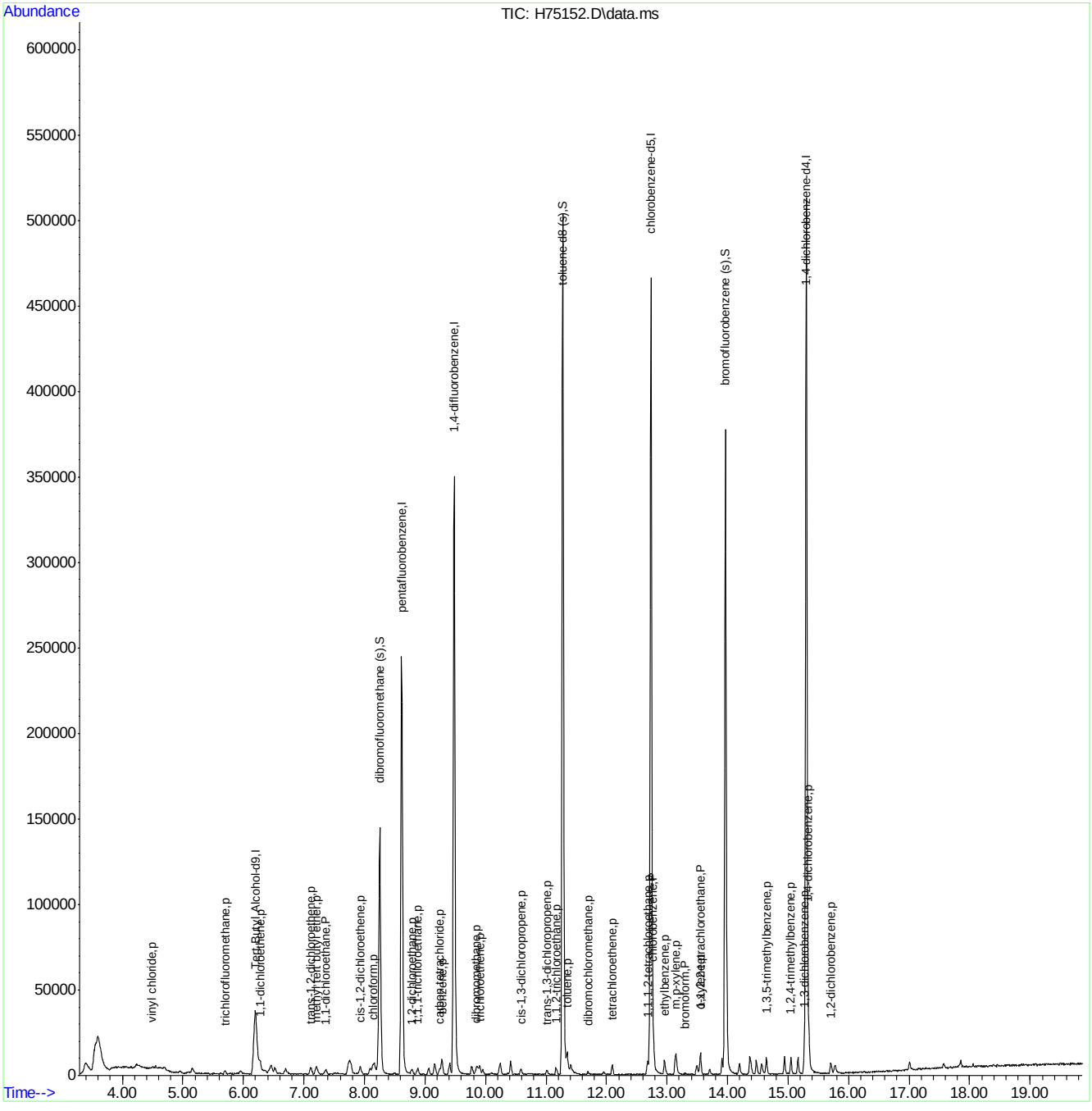
7.6.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75152.D
Acq On : 25 Sep 2015 3:49 pm
Operator : kaylap
Sample : ic2500-1
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:01:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:57:50 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.192	65	75395	500.00	ug/L	0.00
4) pentafluorobenzene	8.616	168	188130	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.484	114	294866	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	167139	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	151315	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.253	113	96172	49.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.64%			
60) toluene-d8 (s)	11.277	98	359171	50.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.32%			
82) bromofluorobenzene (s)	13.962	95	144449	50.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.14%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.284	59	3176	19.64	ug/L	95
3) Ethanol	5.148	45	3073	164.80	ug/L #	40
5) dichlorodifluoromethane	4.015	85	3041	1.47	ug/L	84
6) chloromethane	4.248	50	3596	1.92	ug/L	99
7) vinyl chloride	4.491	62	2844	1.68	ug/L	97
8) bromomethane	4.950	96	1765	1.40	ug/L	79
9) chloroethane	5.098	64	1707	1.45	ug/L	99
11) trichlorofluoromethane	5.698	101	4062	1.60	ug/L	90
14) 1,1-dichloroethene	6.277	96	2769	1.79	ug/L #	74
18) methylene chloride	6.446	84	3978	2.09	ug/L	83
19) methyl tert butyl ether	7.205	73	8882	1.81	ug/L	97
22) trans-1,2-dichloroethene	7.113	96	3341	1.86	ug/L	90
28) di-isopropyl ether	7.769	45	11559	1.78	ug/L	85
31) 1,1-dichloroethane	7.360	63	6854m	1.87	ug/L	
32) tert-butyl ethyl ether	8.161	59	10257	1.71	ug/L	93
36) cis-1,2-dichloroethene	7.928	96	3617	1.84	ug/L	91
39) chloroform	8.129	83	6608	1.83	ug/L	94
41) 1,1,1-trichloroethane	8.877	97	4760	1.71	ug/L	89
44) carbon tetrachloride	9.244	117	3388	1.56	ug/L	81
46) benzene	9.280	78	13568	1.85	ug/L	97
48) 1,2-dichloroethane	8.786	62	5194	1.87	ug/L	98
49) tert-amyl methyl ether	9.410	73	8124	1.61	ug/L	88
51) trichloroethene	9.901	95	3486	1.90	ug/L	74
52) 1,2-dichloropropane	9.869	63	3908	2.00	ug/L	86
53) dibromomethane	9.841	93	2173	1.83	ug/L	93
54) bromodichloromethane	9.954	83	4042	1.65	ug/L	92
59) cis-1,3-dichloropropene	10.582	75	4583	1.86	ug/L	89
62) toluene	11.348	92	8138	1.83	ug/L	96
63) trans-1,3-dichloropropene	11.009	75	3843	1.88	ug/L	95
64) 1,1,2-trichloroethane	11.168	83	2741	1.88	ug/L #	76
67) tetrachloroethene	12.092	166	3286m	1.79	ug/L	
69) dibromochloromethane	11.690	129	2489	1.87	ug/L	98
70) 1,2-dibromoethane	11.944	107	2941	1.79	ug/L	96
72) chlorobenzene	12.770	112	9424	1.78	ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration

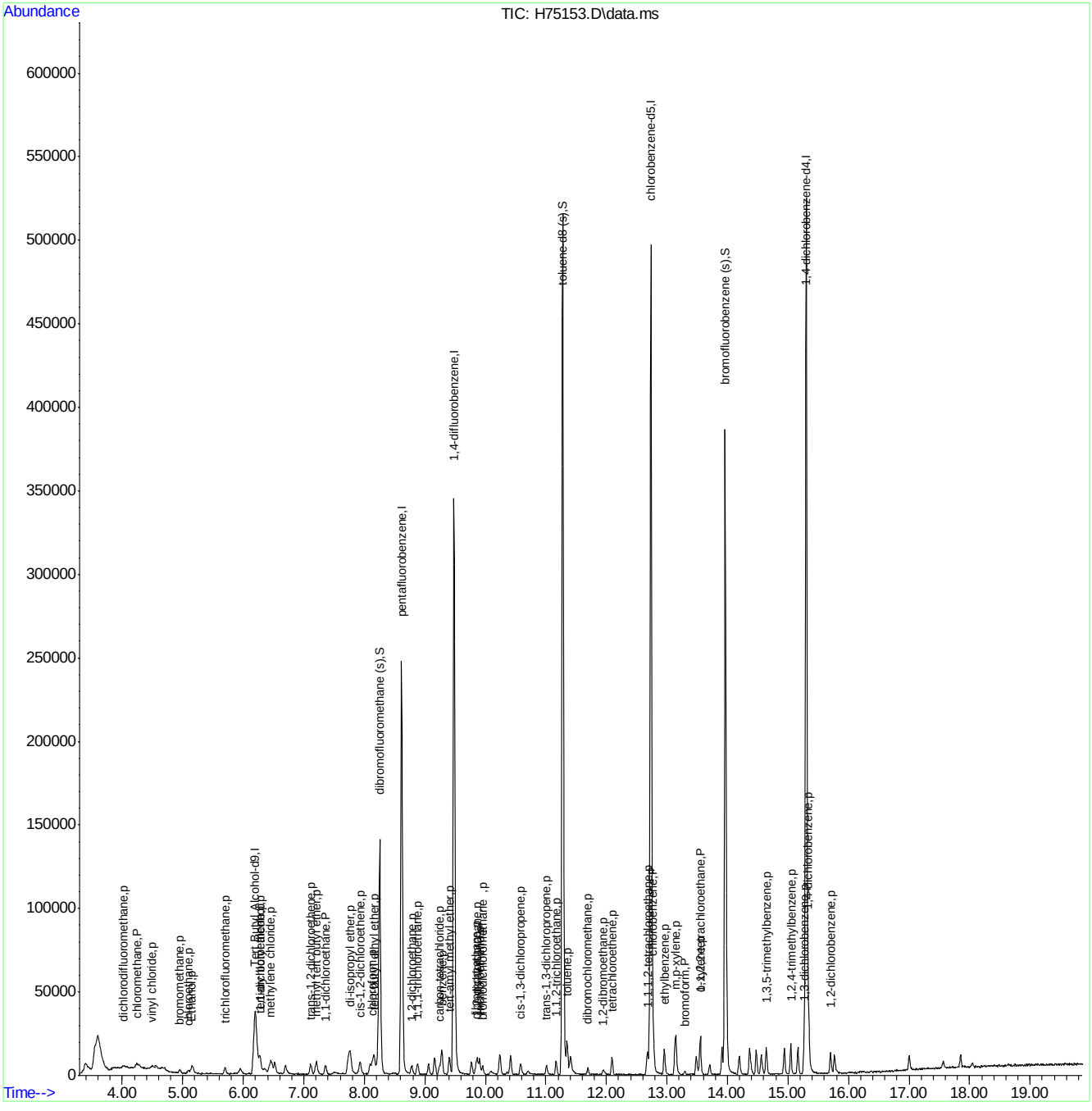
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,1,1,2-tetrachloroethane	12.685	131	2513	1.61	ug/L	94
74) ethylbenzene	12.953	91	13832	1.70	ug/L	96
75) m,p-xylene	13.144	106	9944	3.42	ug/L	99
76) o-xylene	13.553	106	5297	1.75	ug/L	97
78) bromoform	13.299	173	1244	1.42	ug/L	100
84) 1,1,2,2-tetrachloroethane	13.553	83	3757	1.93	ug/L	88
89) 1,3,5-trimethylbenzene	14.640	105	10639	1.66	ug/L	98
91) 1,2,4-trimethylbenzene	15.049	105	10798	1.65	ug/L	99
93) 1,3-dichlorobenzene	15.265	146	7008	1.71	ug/L	94
95) 1,4-dichlorobenzene	15.328	146	8162	1.77	ug/L	94
96) 1,2-dichlorobenzene	15.702	146	6757	1.78	ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration

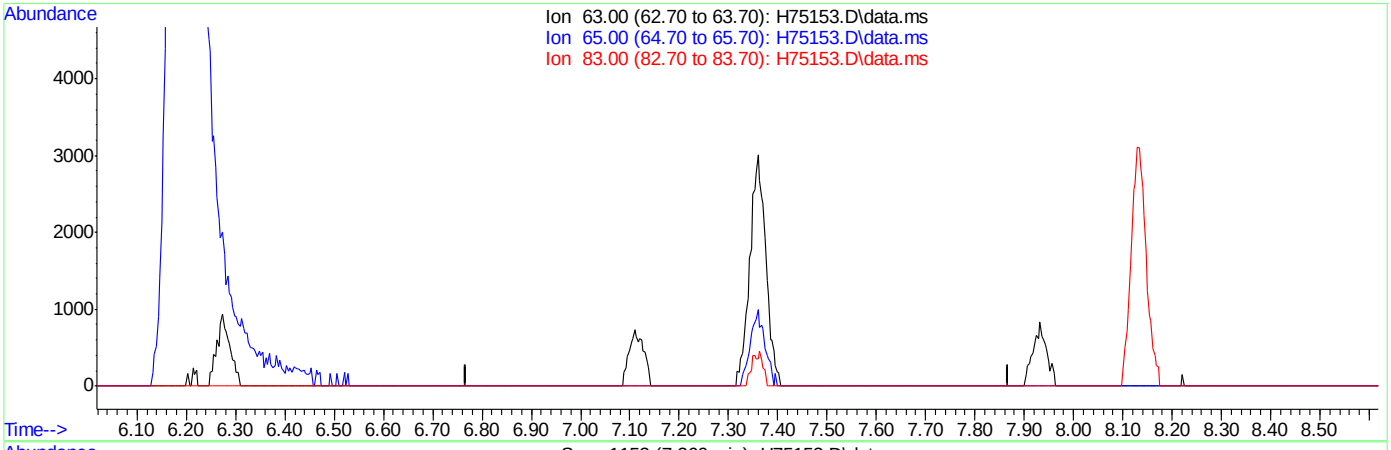


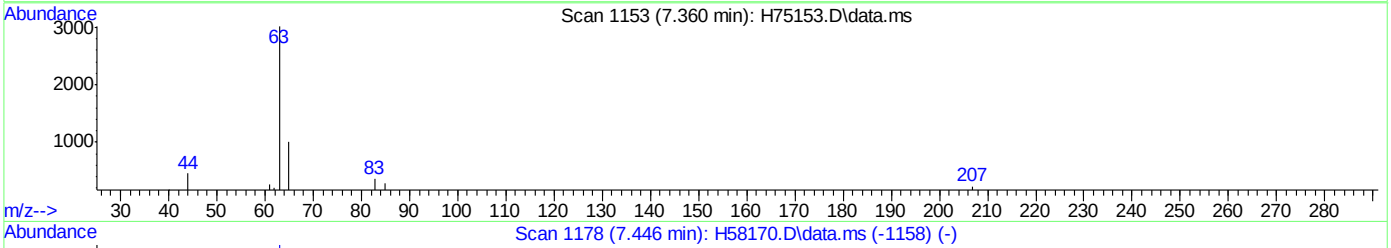
ACCUTEST LABORATORIES MC41696

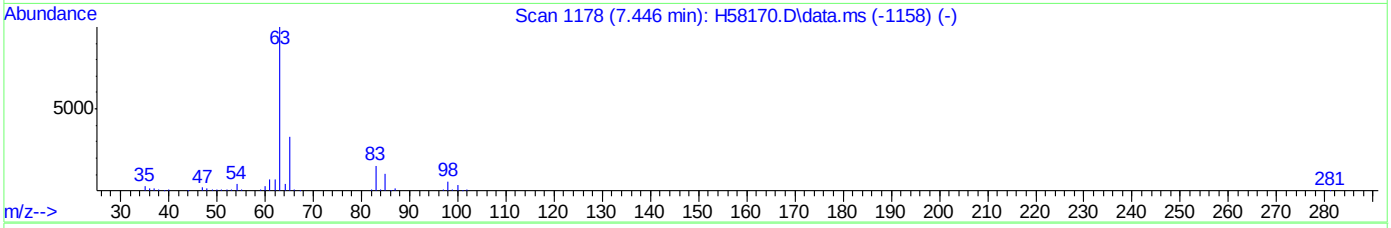
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(31) 1,1-dichloroethane (P)

7.358min 0.00ug/L d

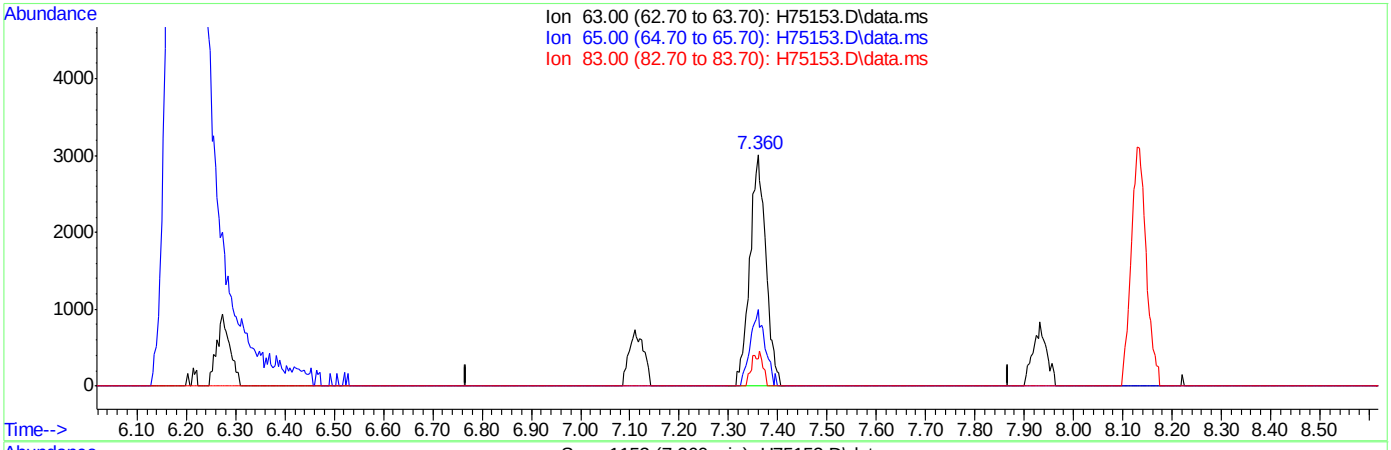
response 0

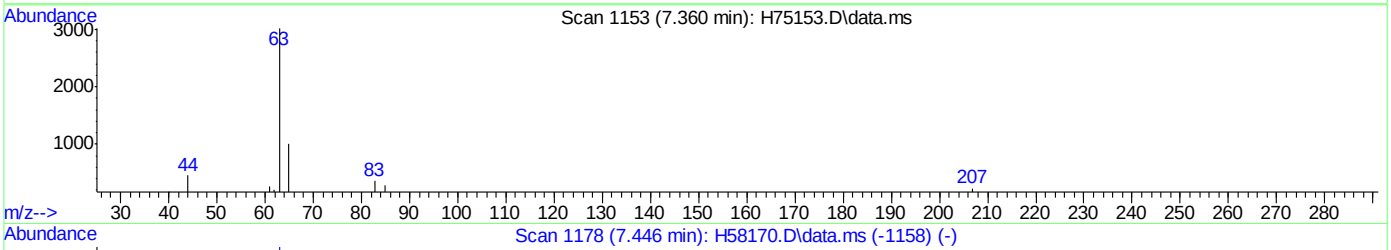
Ion	Exp%	Act%
63.00	100	0.00
65.00	32.10	0.00
83.00	17.30	0.00
0.00	0.00	0.00

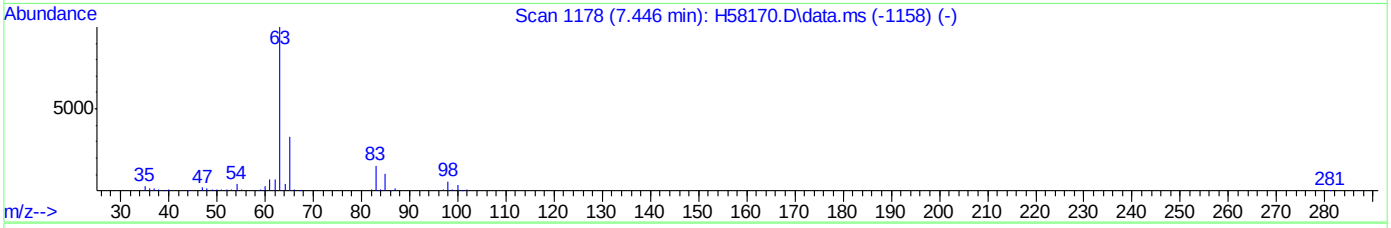
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(31) 1,1-dichloroethane (P)

7.360min (+0.002) 1.87ug/L m

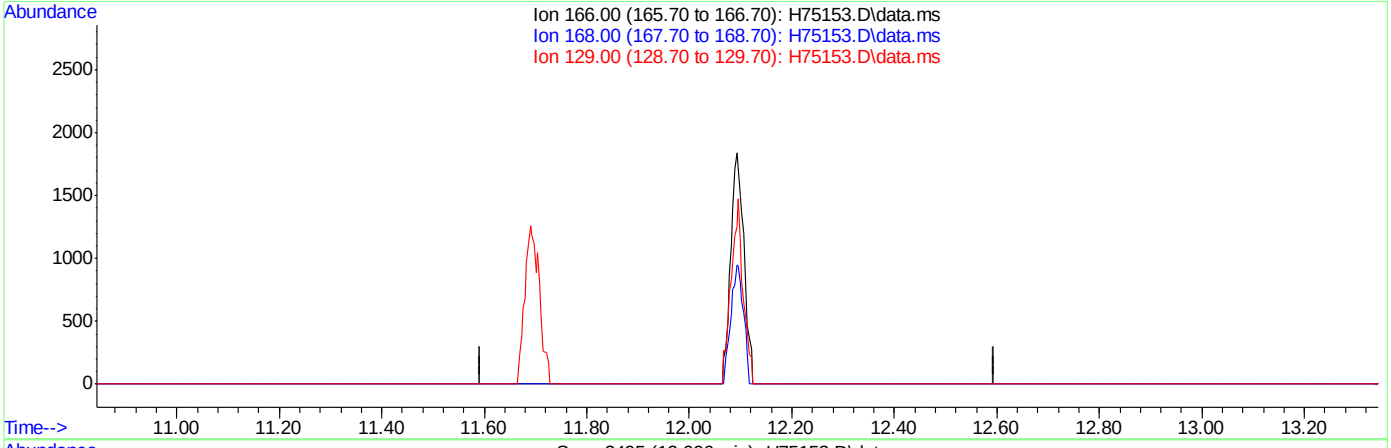
response 6854

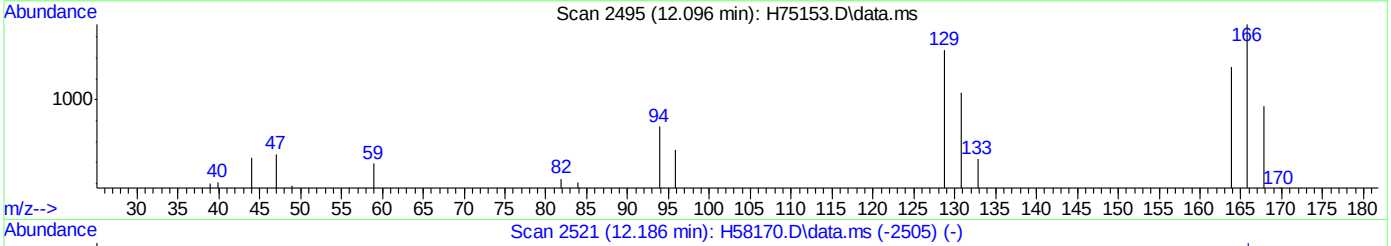
Ion	Exp%	Act%
63.00	100	100
65.00	32.10	33.07
83.00	17.30	11.91
0.00	0.00	0.00

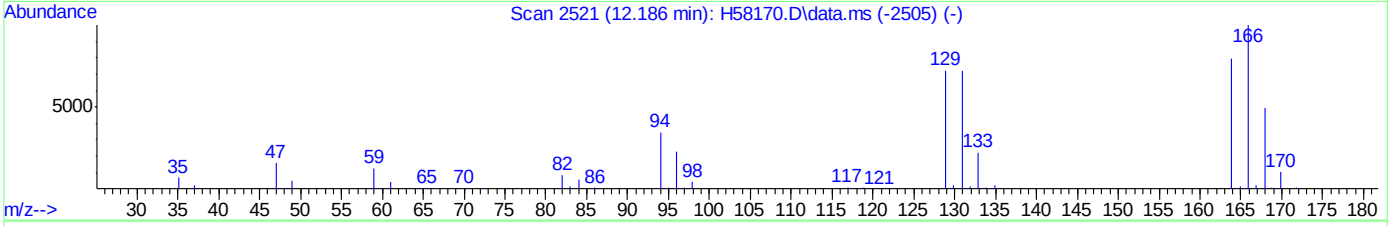
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(67) tetrachloroethene (p)

12.094min 0.00ug/L d

response 0

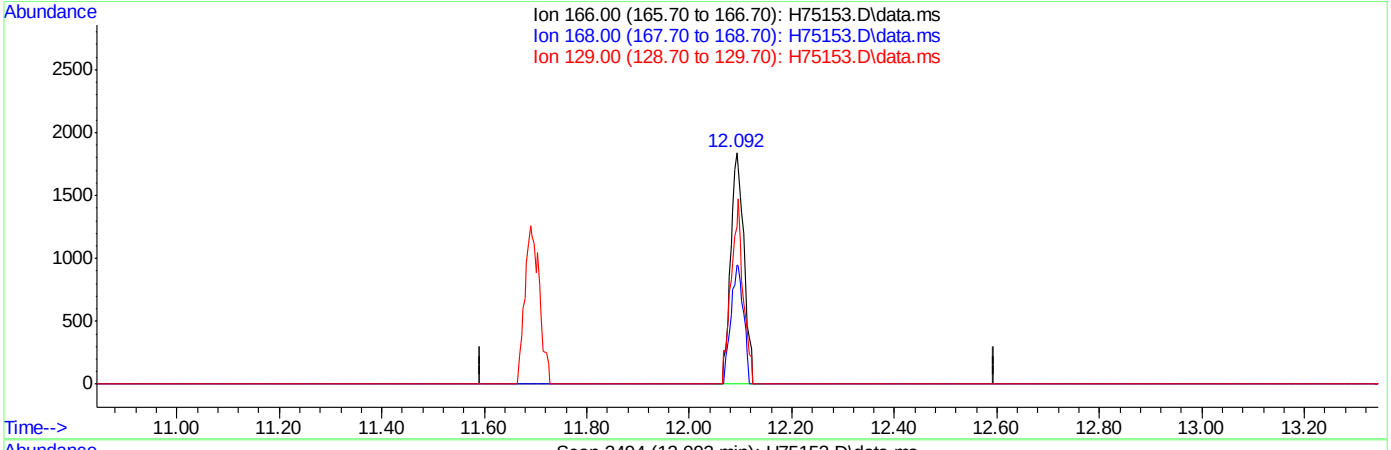
Ion	Exp%	Act%
166.00	100	0.00
168.00	47.70	0.00
129.00	78.90	0.00
0.00	0.00	0.00

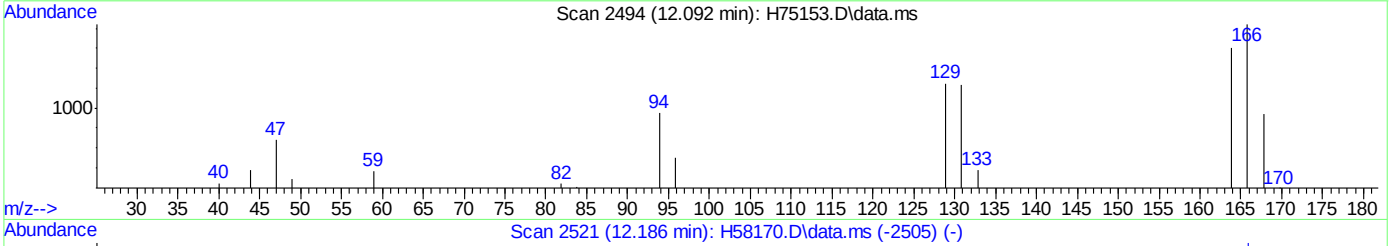
ACCUTEST LABORATORIES MC41696

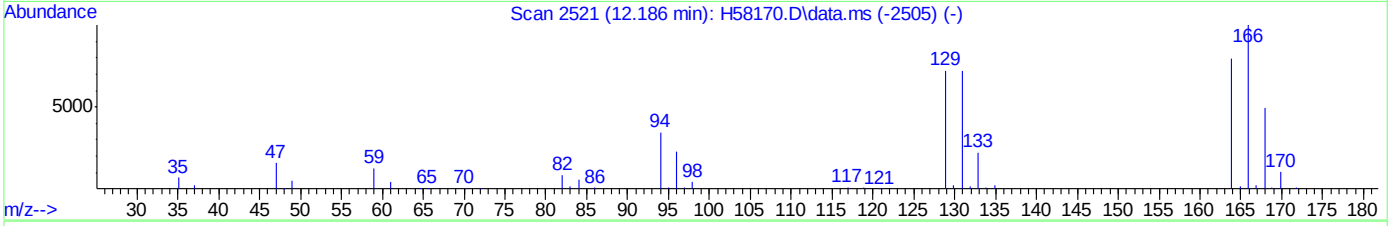
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(67) tetrachloroethene (p)

12.092min (-0.002) 1.79ug/L m

response 3286

Ion	Exp%	Act%
166.00	100	100
168.00	47.70	51.30
129.00	78.90	67.86
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.198	65	76358	500.00	ug/L	0.00
4) pentafluorobenzene	8.616	168	187576	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	292434	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	170449	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	153419	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	96133	49.99	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.98%			
60) toluene-d8 (s)	11.276	98	363335	51.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.02%			
82) bromofluorobenzene (s)	13.965	95	146708	50.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.28%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.283	59	9427	58.09	ug/L	80
3) Ethanol	5.129	45	10200	592.22	ug/L #	40
5) dichlorodifluoromethane	4.032	85	12884	7.20	ug/L	95
6) chloromethane	4.247	50	13262	7.24	ug/L	97
7) vinyl chloride	4.501	62	12362	7.73	ug/L	95
8) bromomethane	4.946	96	7964	7.45	ug/L	95
9) chloroethane	5.097	64	7131	7.05	ug/L	100
11) trichlorofluoromethane	5.701	101	17866	7.57	ug/L	98
12) freon-113	6.470	101	9957	5.66	ug/L	94
13) acrolein	5.711	56	1804	20.73	ug/L	92
14) 1,1-dichloroethene	6.279	96	8862	5.95	ug/L	85
15) acetone	5.870	58	767	3.80	ug/L #	56
16) ethyl ether	5.941	59	8001	5.15	ug/L	94
17) methyl acetate	6.470	43	10337	6.15	ug/L	89
18) methylene chloride	6.438	84	11524	5.94	ug/L #	74
19) methyl tert butyl ether	7.204	73	26399	5.58	ug/L	91
20) acrylonitrile	6.357	53	2945	3.87	ug/L	77
21) allyl chloride	6.523	41	18046	5.81	ug/L	84
22) trans-1,2-dichloroethene	7.112	96	9493	5.42	ug/L	83
23) iodomethane	6.354	142	14891	5.47	ug/L	91
24) carbon disulfide	6.696	76	30999	5.59	ug/L	98
26) vinyl acetate	7.479	43	17817	5.17	ug/L	87
27) chloroprene	7.726	53	15375	5.11	ug/L	99
28) di-isopropyl ether	7.769	45	36087	5.89	ug/L	83
29) methacrylonitrile	7.896	41	7026	5.86	ug/L	96
31) 1,1-dichloroethane	7.356	63	20145	5.64	ug/L	94
32) tert-butyl ethyl ether	8.164	59	31471	5.67	ug/L	95
33) Hexane	7.751	41	19193	5.84	ug/L #	95
34) isobutyl alcohol	8.160	43	6339	38.98	ug/L #	67
35) 2,2-dichloropropane	8.213	77	14294	5.59	ug/L	94
36) cis-1,2-dichloroethene	7.931	96	10622	5.56	ug/L	88
37) ethyl acetate	8.160	43	6175	7.52	ug/L	93
38) bromochloromethane	8.093	128	5071	5.62	ug/L #	53
39) chloroform	8.132	83	18993	5.42	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,1,1-trichloroethane	8.880	97	14799	5.60	ug/L		91
43) cyclohexane	9.162	56	17660	5.32	ug/L	#	79
44) carbon tetrachloride	9.240	117	11799	5.92	ug/L		93
45) 1,1-dichloropropene	9.057	75	12657	5.24	ug/L		91
46) benzene	9.279	78	40462	5.67	ug/L		100
47) tetrahydrofuran	8.471	42	3158	5.25	ug/L		81
48) 1,2-dichloroethane	8.778	62	15474	5.74	ug/L		94
49) tert-amyl methyl ether	9.406	73	25273	5.60	ug/L		88
50) heptane	9.769	43	14196	5.68	ug/L		85
51) trichloroethene	9.903	95	10656	5.92	ug/L		78
52) 1,2-dichloropropane	9.865	63	11025	5.69	ug/L		97
53) dibromomethane	9.836	93	6680	5.85	ug/L		87
54) bromodichloromethane	9.953	83	12377	5.58	ug/L		92
55) methylcyclohexane	10.415	83	16047	5.33	ug/L		91
56) 2-chloroethyl vinyl ether	10.345	63	6793	5.11	ug/L		81
57) methyl methacrylate	10.069	69	5626	4.48	ug/L		83
59) cis-1,3-dichloropropene	10.578	75	14322	5.96	ug/L		85
61) 4-methyl-2-pentanone	10.683	43	11161	5.76	ug/L		77
62) toluene	11.347	92	24398	5.69	ug/L		93
63) trans-1,3-dichloropropene	11.005	75	12675	6.34	ug/L		99
64) 1,1,2-trichloroethane	11.167	83	8288	5.85	ug/L		92
65) ethyl methacrylate	11.393	69	10755	4.52	ug/L	#	42
67) tetrachloroethene	12.091	166	10877	5.96	ug/L		94
68) 1,3-dichloropropane	11.403	76	16187	5.79	ug/L		93
69) dibromochloromethane	11.689	129	7922	5.92	ug/L		96
70) 1,2-dibromoethane	11.943	107	9336	5.88	ug/L		97
72) chlorobenzene	12.769	112	28845	5.54	ug/L		93
73) 1,1,1,2-tetrachloroethane	12.691	131	8339	5.60	ug/L		98
74) ethylbenzene	12.952	91	44370	5.63	ug/L		97
75) m,p-xylene	13.139	106	33962	11.87	ug/L		97
76) o-xylene	13.545	106	17158	5.73	ug/L		96
77) styrene	13.482	104	25666	4.97	ug/L		98
78) bromoform	13.295	173	4403	5.46	ug/L		99
79) trans-1,4-dichloro-2-b...	13.708	53	1843	3.23	ug/L	#	9
81) isopropylbenzene	13.912	105	41871	5.27	ug/L		97
83) bromobenzene	14.195	156	11867	5.53	ug/L		87
84) 1,1,2,2-tetrachloroethane	13.552	83	11828	6.04	ug/L		90
85) 1,2,3-trichloropropane	13.697	75	10848	4.81	ug/L		89
86) n-propylbenzene	14.360	91	49065	5.17	ug/L		94
87) 2-chlorotoluene	14.473	91	30728	5.48	ug/L		90
88) 4-chlorotoluene	14.554	91	32146	5.41	ug/L		84
89) 1,3,5-trimethylbenzene	14.639	105	35229	5.74	ug/L		98
90) tert-butylbenzene	14.939	91	20699	5.23	ug/L		89
91) 1,2,4-trimethylbenzene	15.045	105	35333	5.66	ug/L		99
92) sec-butylbenzene	15.165	105	44298	5.19	ug/L		98
93) 1,3-dichlorobenzene	15.264	146	21551	5.44	ug/L		98
94) p-isopropyltoluene	15.341	119	38164	5.24	ug/L		95
95) 1,4-dichlorobenzene	15.331	146	23941	5.32	ug/L		98
96) 1,2-dichlorobenzene	15.701	146	20560	5.54	ug/L		97
97) n-butylbenzene	15.761	91	33733	5.06	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration

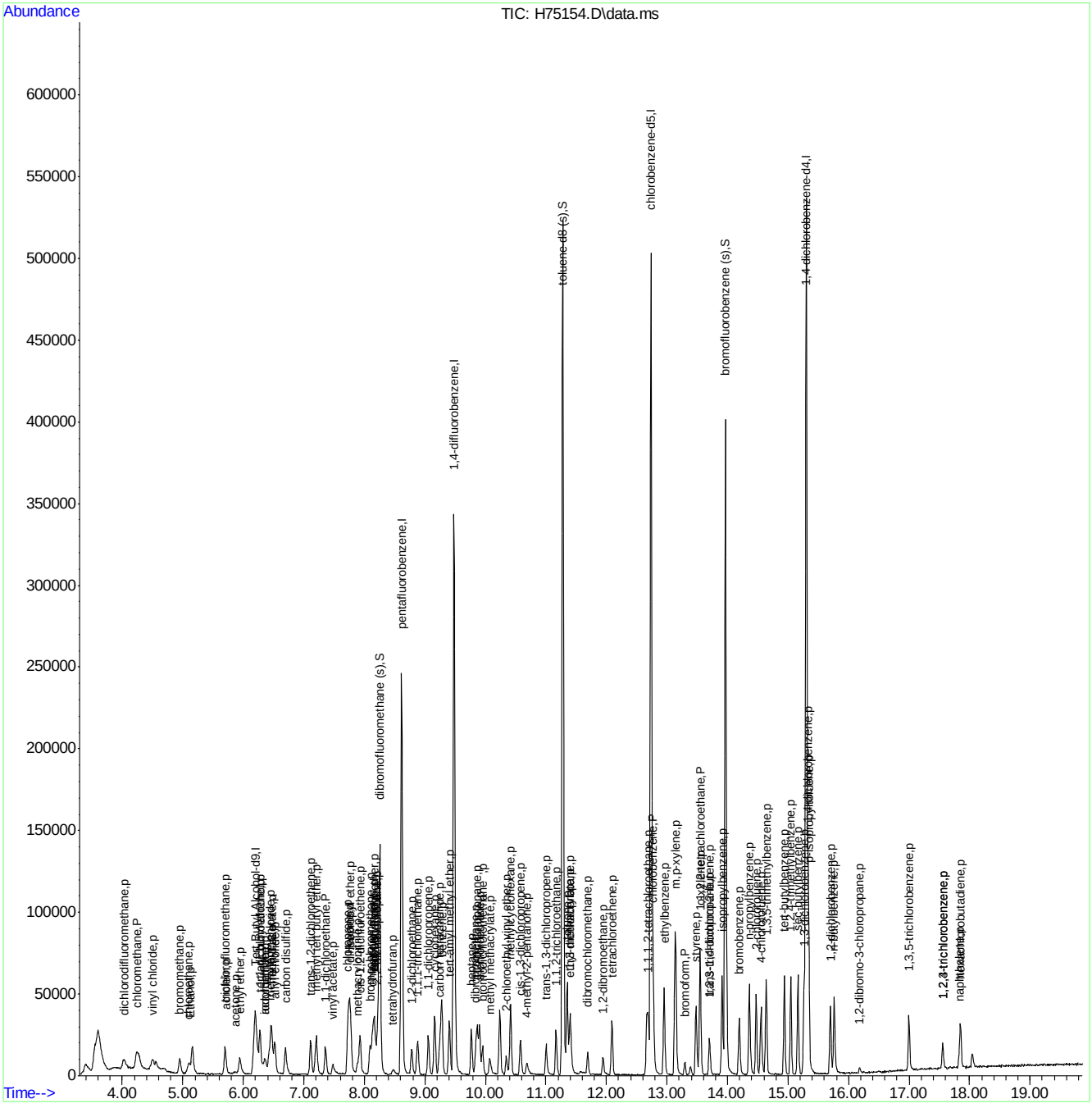
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 1,2-dibromo-3-chloropr...	16.178	75	1064	4.75	ug/L #	66
99) 1,3,5-trichlorobenzene	16.996	180	12655	5.43	ug/L	93
100) 1,2,4-trichlorobenzene	17.557	180	6847	5.45	ug/L	87
101) hexachlorobutadiene	17.850	225	5373	5.88	ug/L	88
102) naphthalene	17.833	128	10607	5.37	ug/L	100
103) 1,2,3-trichlorobenzene	17.557	180	6847	5.45	ug/L	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES MC41696

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	76084	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	185992	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.482	114	291068	50.00	ug/L	0.00
66) chlorobenzene-d5	12.732	82	168798	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	154847	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	95768	50.23	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.46%			
60) toluene-d8 (s)	11.275	98	358868	50.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.60%			
82) bromofluorobenzene (s)	13.964	95	148002	50.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.18%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.278	59	18956	111.23	ug/L	92
3) Ethanol	5.110	45	21713	1191.93	ug/L	98
5) dichlorodifluoromethane	4.016	85	23433	11.52	ug/L	100
6) chloromethane	4.253	50	23057	11.05	ug/L	96
7) vinyl chloride	4.496	62	22527	12.50	ug/L	96
8) bromomethane	4.951	96	14134	11.46	ug/L	99
9) chloroethane	5.100	64	13259	11.63	ug/L	95
11) trichlorofluoromethane	5.696	101	33240	12.59	ug/L	98
12) freon-113	6.465	101	19122	10.28	ug/L	89
13) acrolein	5.721	56	3695	46.82	ug/L	92
14) 1,1-dichloroethene	6.271	96	16863	10.90	ug/L #	73
15) acetone	5.855	58	2387	13.56	ug/L	88
16) ethyl ether	5.939	59	16416	10.50	ug/L	85
17) methyl acetate	6.462	43	21942	11.80	ug/L	84
18) methylene chloride	6.437	84	21881	10.70	ug/L #	76
19) methyl tert butyl ether	7.203	73	52270	10.83	ug/L	86
20) acrylonitrile	6.352	53	6635	9.91	ug/L	92
21) allyl chloride	6.518	41	35373	10.62	ug/L	89
22) trans-1,2-dichloroethene	7.115	96	18382	10.37	ug/L	83
23) iodomethane	6.356	142	29144	10.31	ug/L	88
24) carbon disulfide	6.695	76	60083	10.32	ug/L	96
25) propionitrile	7.422	54	1863	7.27	ug/L	100
26) vinyl acetate	7.471	43	35451	10.20	ug/L	95
27) chloroprene	7.725	53	30810	10.21	ug/L	99
28) di-isopropyl ether	7.767	45	71673	11.14	ug/L	82
29) methacrylonitrile	7.880	41	13427	10.40	ug/L	98
30) 2-butanone	7.806	72	1794	7.99	ug/L #	1
31) 1,1-dichloroethane	7.354	63	39151	10.71	ug/L	95
32) tert-butyl ethyl ether	8.163	59	63892	11.11	ug/L	91
33) Hexane	7.746	41	36082	10.22	ug/L #	91
34) isobutyl alcohol	8.156	43	11369	55.10	ug/L	77
35) 2,2-dichloropropane	8.212	77	27339	10.18	ug/L	94
36) cis-1,2-dichloroethene	7.930	96	20706	10.63	ug/L	86
37) ethyl acetate	8.156	43	11062	10.85	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.088	128	10294	10.83 ug/L #	49
39) chloroform	8.127	83	37244	10.50 ug/L	100
41) 1,1,1-trichloroethane	8.879	97	29300	10.86 ug/L	92
43) cyclohexane	9.161	56	34710	10.18 ug/L #	78
44) carbon tetrachloride	9.242	117	22912	11.04 ug/L	95
45) 1,1-dichloropropene	9.059	75	24504	9.95 ug/L	94
46) benzene	9.278	78	77508	10.63 ug/L	100
47) tetrahydrofuran	8.470	42	6589	10.74 ug/L	88
48) 1,2-dichloroethane	8.777	62	29775	10.70 ug/L	98
49) tert-amyl methyl ether	9.405	73	51097	10.94 ug/L	88
50) heptane	9.765	43	26323	9.91 ug/L	93
51) trichloroethene	9.899	95	20161	10.86 ug/L	85
52) 1,2-dichloropropane	9.863	63	21699	10.76 ug/L	95
53) dibromomethane	9.839	93	13141	11.09 ug/L	92
54) bromodichloromethane	9.952	83	25376	11.06 ug/L	98
55) methylcyclohexane	10.410	83	30755	9.93 ug/L	87
56) 2-chloroethyl vinyl ether	10.340	63	12428	9.29 ug/L	86
57) methyl methacrylate	10.061	69	12408	10.48 ug/L	92
58) 1,4-dioxane	10.072	88	567	38.23 ug/L	80
59) cis-1,3-dichloropropene	10.576	75	29376	11.82 ug/L	92
61) 4-methyl-2-pentanone	10.675	43	21392	10.31 ug/L	84
62) toluene	11.349	92	46857	10.61 ug/L	98
63) trans-1,3-dichloropropene	10.996	75	26702	12.74 ug/L	98
64) 1,1,2-trichloroethane	11.166	83	15936	10.84 ug/L	89
65) ethyl methacrylate	11.384	69	22867	10.14 ug/L	85
67) tetrachloroethene	12.090	166	20915	11.15 ug/L	92
68) 1,3-dichloropropane	11.399	76	32045	10.73 ug/L	96
69) dibromochloromethane	11.688	129	16897	12.30 ug/L	97
70) 1,2-dibromoethane	11.942	107	18703	11.24 ug/L	97
71) 2-hexanone	11.554	43	14603	10.42 ug/L	79
72) chlorobenzene	12.768	112	54878	10.36 ug/L	92
73) 1,1,1,2-tetrachloroethane	12.687	131	16939	11.15 ug/L	91
74) ethylbenzene	12.951	91	86912	10.79 ug/L	97
75) m,p-xylene	13.138	106	67421	22.94 ug/L	99
76) o-xylene	13.544	106	35369	11.58 ug/L	99
77) styrene	13.477	104	54157	10.63 ug/L	94
78) bromoform	13.290	173	9612	11.76 ug/L	96
79) trans-1,4-dichloro-2-b...	13.703	53	4408	9.47 ug/L #	29
81) isopropylbenzene	13.907	105	84481	10.26 ug/L	98
83) bromobenzene	14.190	156	23574	10.33 ug/L	85
84) 1,1,2,2-tetrachloroethane	13.548	83	23076	11.20 ug/L	96
85) 1,2,3-trichloropropane	13.699	75	22947	10.27 ug/L	94
86) n-propylbenzene	14.359	91	97461	10.01 ug/L	95
87) 2-chlorotoluene	14.472	91	62013	10.46 ug/L	90
88) 4-chlorotoluene	14.550	91	63969	10.25 ug/L	91
89) 1,3,5-trimethylbenzene	14.638	105	70667	11.00 ug/L	100
90) tert-butylbenzene	14.938	91	42151	10.32 ug/L	92
91) 1,2,4-trimethylbenzene	15.044	105	72851	11.20 ug/L	97
92) sec-butylbenzene	15.164	105	90614	10.33 ug/L	98
93) 1,3-dichlorobenzene	15.263	146	42489	10.40 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.340	119	76539	10.17	ug/L	97
95) 1,4-dichlorobenzene	15.326	146	47261	10.24	ug/L	95
96) 1,2-dichlorobenzene	15.700	146	41794	10.87	ug/L	99
97) n-butylbenzene	15.760	91	69185	10.22	ug/L	93
98) 1,2-dibromo-3-chloropr...	16.180	75	2468	11.20	ug/L #	64
99) 1,3,5-trichlorobenzene	16.995	180	26843	10.94	ug/L	94
100) 1,2,4-trichlorobenzene	17.549	180	14555	10.98	ug/L	96
101) hexachlorobutadiene	17.853	225	10651	10.61	ug/L	94
102) naphthalene	17.828	128	22575	10.92	ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	14555	10.98	ug/L	97

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

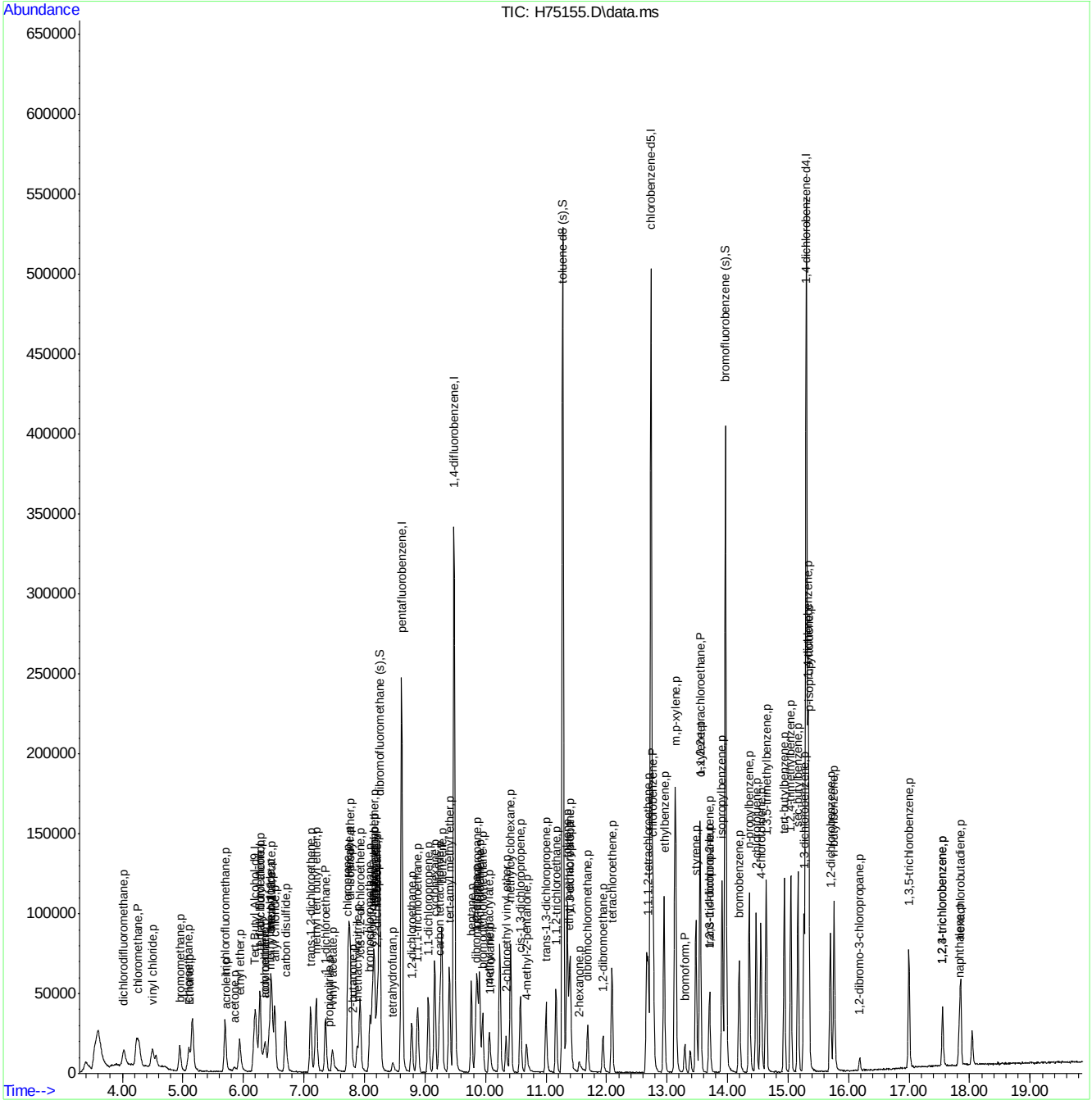
7.6.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

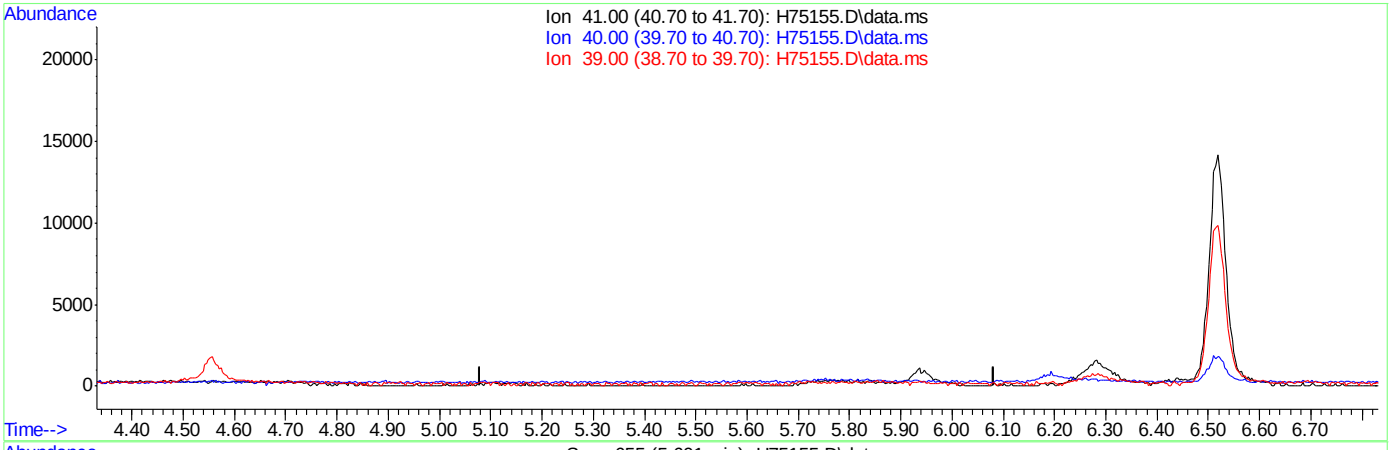
Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

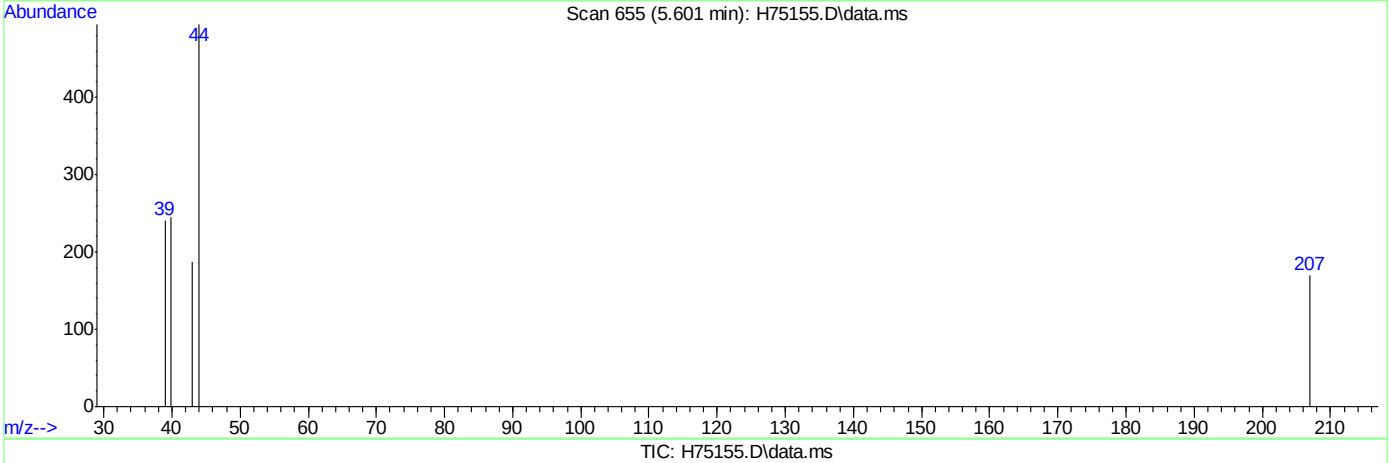


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration





TIC: H75155.D\data.ms

(10) acetonitrile (p)

5.602min (-5.602) 0.00ug/L

response 0

Ion	Exp%	Act%
41.00	100	0.00
40.00	22.50	0.00
39.00	56.70	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.190	65	76631	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	193809	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	301853	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	180193	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.301	152	162887	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	98241	49.41	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.82%			
60) toluene-d8 (s)	11.275	98	375982	51.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.38%			
82) bromofluorobenzene (s)	13.964	95	155314	49.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.90%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.278	59	35308	200.08	ug/L	99
3) Ethanol	5.121	45	50443	2623.42	ug/L	98
5) dichlorodifluoromethane	4.023	85	44042	20.01	ug/L	100
6) chloromethane	4.263	50	42367	18.98	ug/L	95
7) vinyl chloride	4.496	62	41216	20.91	ug/L	97
8) bromomethane	4.948	96	27109	20.36	ug/L	93
9) chloroethane	5.103	64	24554	19.86	ug/L	99
10) acetonitrile	5.597	41	587	21.20	ug/L	82
11) trichlorofluoromethane	5.696	101	60157	20.79	ug/L	97
12) freon-113	6.465	101	38936	19.91	ug/L	88
13) acrolein	5.703	56	7814	97.08	ug/L	92
14) 1,1-dichloroethene	6.271	96	34657	21.11	ug/L #	79
15) acetone	5.837	58	3738m	18.22	ug/L	
16) ethyl ether	5.936	59	32749	19.78	ug/L	91
17) methyl acetate	6.458	43	35148m	17.12	ug/L	
18) methylene chloride	6.440	84	42729	19.71	ug/L #	67
19) methyl tert butyl ether	7.199	73	103473	20.24	ug/L	88
20) acrylonitrile	6.338	53	14825	21.32	ug/L	93
21) allyl chloride	6.515	41	71501	20.19	ug/L	88
22) trans-1,2-dichloroethene	7.107	96	38023	20.43	ug/L	83
23) iodomethane	6.359	142	59416	19.96	ug/L	90
24) carbon disulfide	6.691	76	124387	20.28	ug/L	98
25) propionitrile	7.390	54	4496	19.51	ug/L	100
26) vinyl acetate	7.464	43	68331	18.74	ug/L	93
27) chloroprene	7.721	53	64235	20.29	ug/L	99
28) di-isopropyl ether	7.764	45	142794	20.71	ug/L	84
29) methacrylonitrile	7.880	41	24542	18.01	ug/L	96
30) 2-butanone	7.778	72	4278	20.32	ug/L #	87
31) 1,1-dichloroethane	7.354	63	77723	20.12	ug/L	96
32) tert-butyl ethyl ether	8.159	59	127173	20.65	ug/L	91
33) Hexane	7.743	41	73266	19.76	ug/L	88
34) isobutyl alcohol	8.159	43	18164	81.71	ug/L #	69
35) 2,2-dichloropropane	8.212	77	56709	20.15	ug/L	95
36) cis-1,2-dichloroethene	7.926	96	41694	20.29	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.159	43	20183	18.47	ug/L		99
38) bromochloromethane	8.092	128	19976	19.63	ug/L	#	52
39) chloroform	8.131	83	73199	19.61	ug/L		99
41) 1,1,1-trichloroethane	8.879	97	60294	21.08	ug/L		92
43) cyclohexane	9.161	56	71663	20.15	ug/L	#	76
44) carbon tetrachloride	9.242	117	48620	22.13	ug/L		95
45) 1,1-dichloropropene	9.055	75	52102	20.44	ug/L		91
46) benzene	9.274	78	157681	20.64	ug/L		99
47) tetrahydrofuran	8.466	42	12509	19.18	ug/L		89
48) 1,2-dichloroethane	8.777	62	58140	19.87	ug/L		98
49) tert-amyl methyl ether	9.405	73	102643	20.71	ug/L		90
50) heptane	9.761	43	55374	20.16	ug/L		90
51) trichloroethene	9.899	95	42563	21.79	ug/L		78
52) 1,2-dichloropropane	9.863	63	42922	20.14	ug/L		97
53) dibromomethane	9.835	93	26095	20.78	ug/L		93
54) bromodichloromethane	9.948	83	51904	21.25	ug/L		94
55) methylcyclohexane	10.414	83	65284	20.38	ug/L		87
56) 2-chloroethyl vinyl ether	10.336	63	25220	18.62	ug/L		88
57) methyl methacrylate	10.057	69	25643	20.55	ug/L		90
58) 1,4-dioxane	10.061	88	1516	111.72	ug/L		75
59) cis-1,3-dichloropropene	10.573	75	60390	22.75	ug/L		91
61) 4-methyl-2-pentanone	10.671	43	43230	19.88	ug/L		87
62) toluene	11.349	92	96408	20.79	ug/L		96
63) trans-1,3-dichloropropene	10.996	75	56353	24.80	ug/L		97
64) 1,1,2-trichloroethane	11.166	83	32222	20.78	ug/L		91
65) ethyl methacrylate	11.381	69	48338	20.57	ug/L		94
67) tetrachloroethene	12.090	166	43627	21.38	ug/L		93
68) 1,3-dichloropropane	11.402	76	63497	19.44	ug/L		98
69) dibromochloromethane	11.688	129	35614	23.39	ug/L		96
70) 1,2-dibromoethane	11.938	107	36929	20.16	ug/L		100
71) 2-hexanone	11.540	43	29534	19.34	ug/L		88
72) chlorobenzene	12.768	112	112142	19.69	ug/L		91
73) 1,1,1,2-tetrachloroethane	12.686	131	34853	21.01	ug/L		95
74) ethylbenzene	12.948	91	185507	21.25	ug/L		97
75) m,p-xylene	13.135	106	141878	44.14	ug/L		98
76) o-xylene	13.544	106	72057	21.54	ug/L		97
77) styrene	13.473	104	114551	20.62	ug/L		96
78) bromoform	13.290	173	20177	22.34	ug/L		95
79) trans-1,4-dichloro-2-b...	13.703	53	10293	21.09	ug/L	#	69
81) isopropylbenzene	13.907	105	179155	20.51	ug/L		100
83) bromobenzene	14.193	156	48303	19.91	ug/L		85
84) 1,1,2,2-tetrachloroethane	13.547	83	45435	20.56	ug/L		92
85) 1,2,3-trichloropropane	13.699	75	46470	19.60	ug/L		96
86) n-propylbenzene	14.356	91	210424	20.54	ug/L		94
87) 2-chlorotoluene	14.468	91	127829	20.18	ug/L		92
88) 4-chlorotoluene	14.546	91	131778	19.91	ug/L		89
89) 1,3,5-trimethylbenzene	14.638	105	151803	22.01	ug/L		100
90) tert-butylbenzene	14.938	91	89539	20.62	ug/L		89
91) 1,2,4-trimethylbenzene	15.044	105	152758	21.80	ug/L		100
92) sec-butylbenzene	15.164	105	193846	20.77	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.262	146	87402	20.18	ug/L	99
94) p-isopropyltoluene	15.337	119	161323	20.26	ug/L	98
95) 1,4-dichlorobenzene	15.329	146	96155	19.72	ug/L	97
96) 1,2-dichlorobenzene	15.696	146	84276	20.48	ug/L	100
97) n-butylbenzene	15.756	91	148650	20.72	ug/L	91
98) 1,2-dibromo-3-chloropr...	16.176	75	4897	20.31	ug/L	77
99) 1,3,5-trichlorobenzene	16.995	180	54380	20.43	ug/L #	94
100) 1,2,4-trichlorobenzene	17.549	180	29448	20.45	ug/L	96
101) hexachlorobutadiene	17.849	225	22664	21.04	ug/L	94
102) naphthalene	17.824	128	45375	20.24	ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	29448	20.45	ug/L	94
104) 2-Methylnaphthalene	19.296	142	465m	7.82	ug/L	
105) 1-Methylnaphthalene	19.561	142	110m	2.79	ug/L	

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

7.6.6

7

Quantitation Report (QT Reviewed)

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Acq On : 25 Sep 2015 5:35 pm
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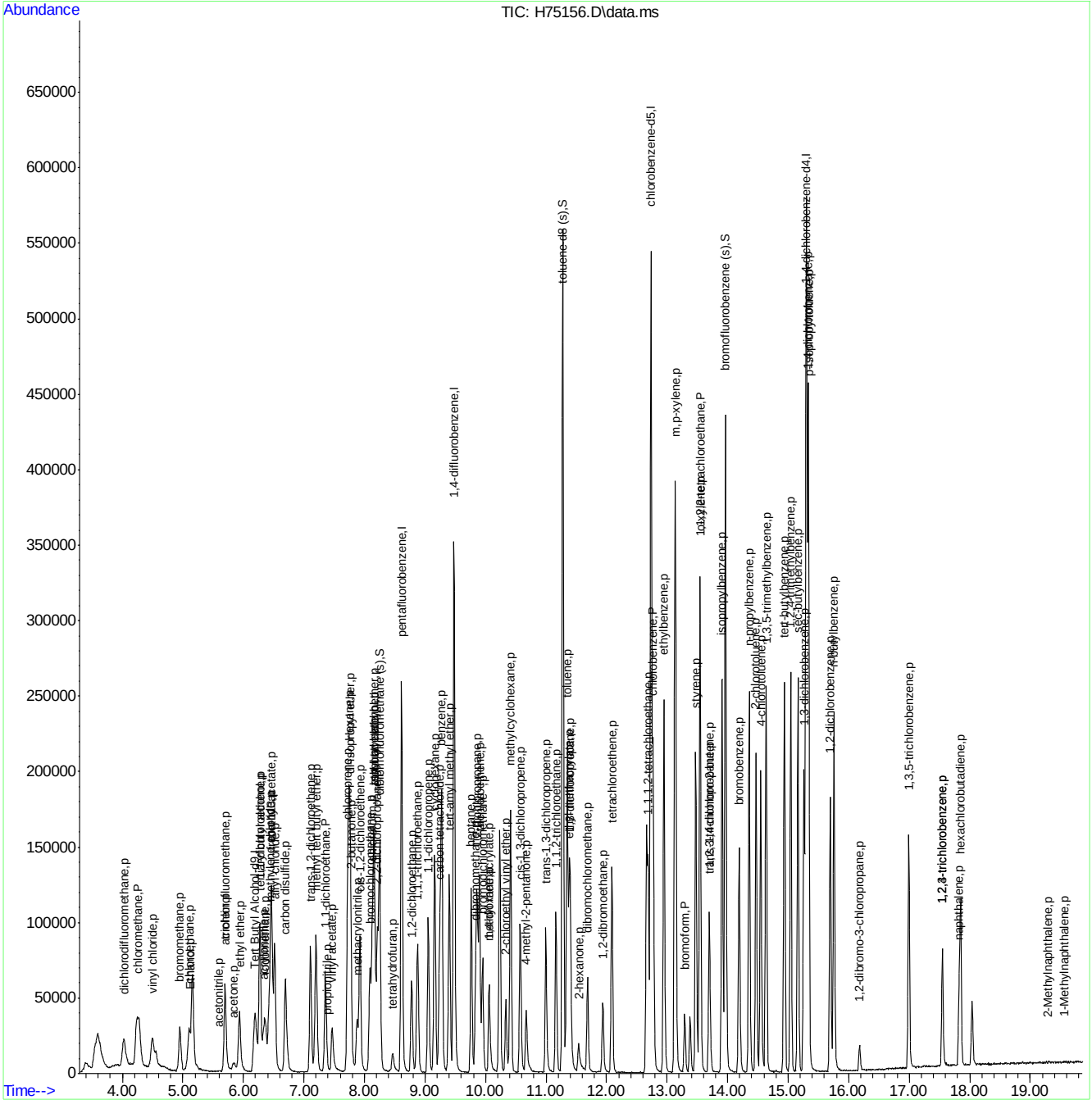
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

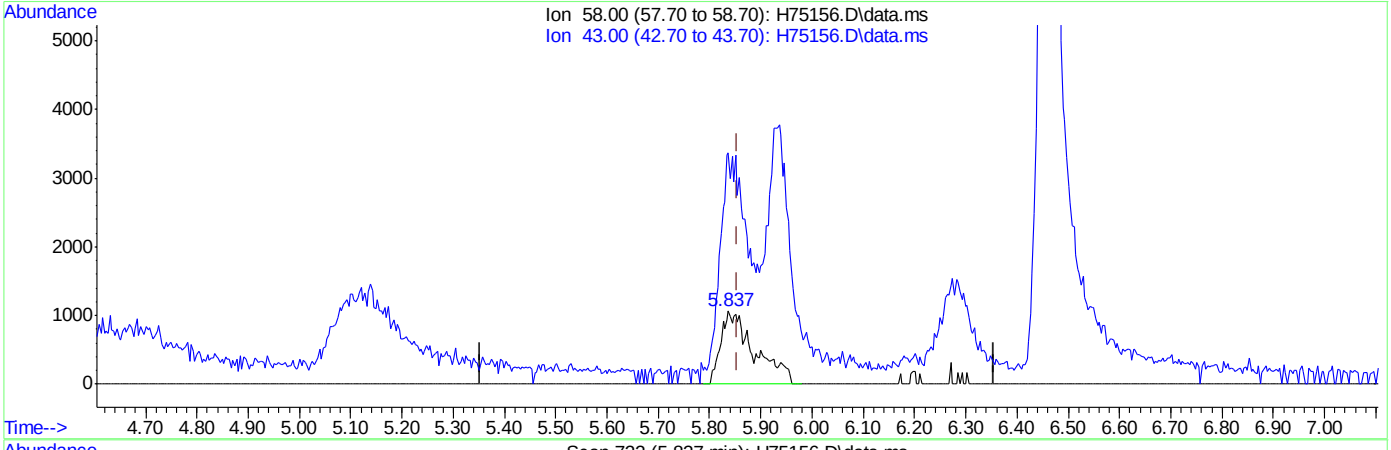


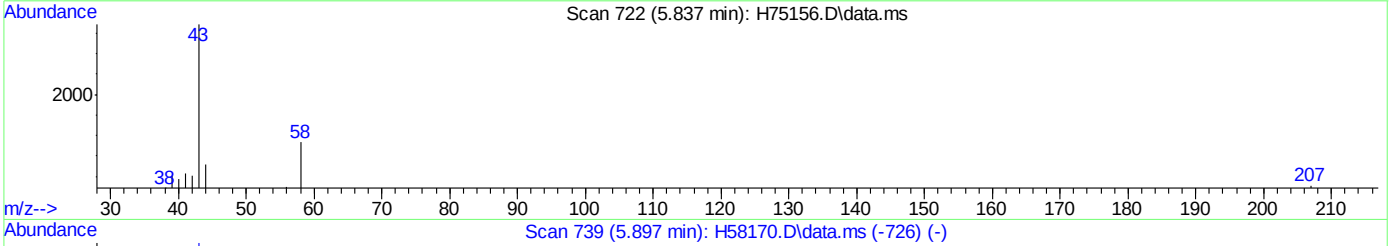
ACCUTEST LABORATORIES MC41696

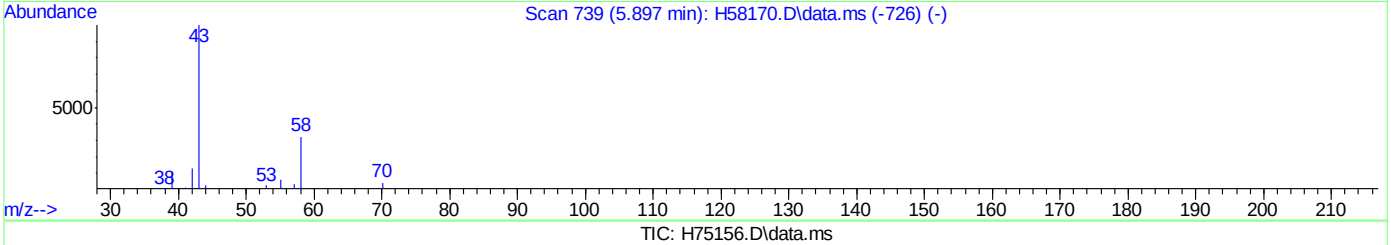
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(15) acetone (p)

5.837min (-0.018) 23.69ug/L

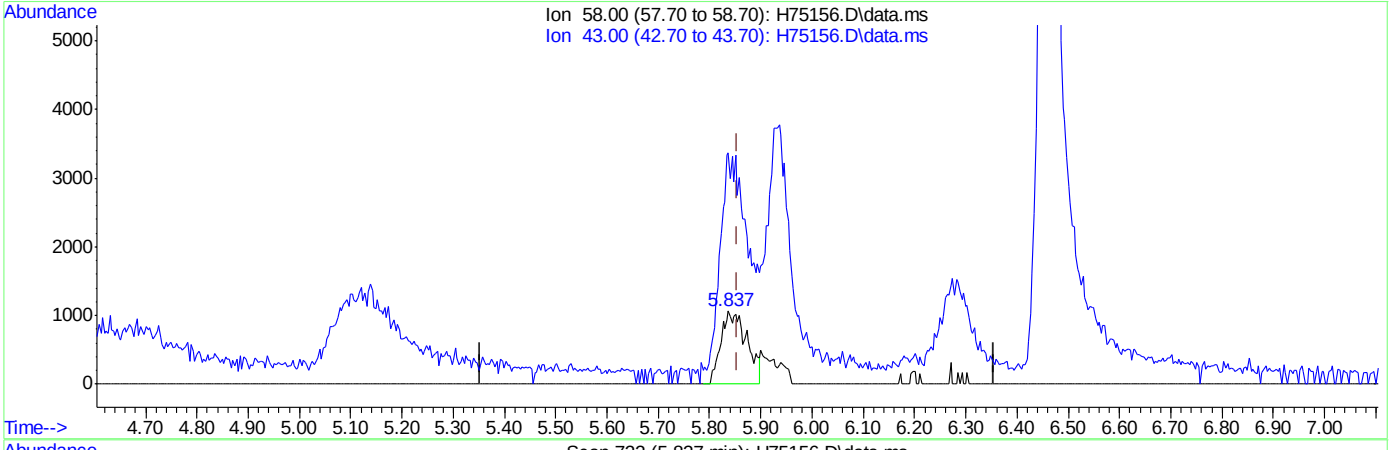
response 4861

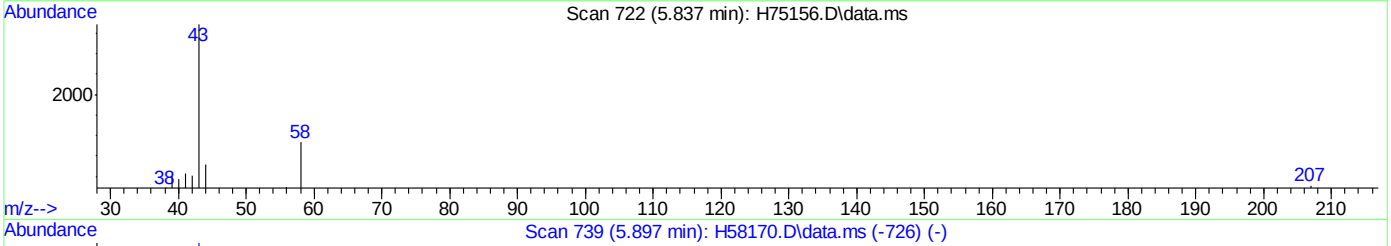
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	297.37
0.00	0.00	0.00
0.00	0.00	0.00

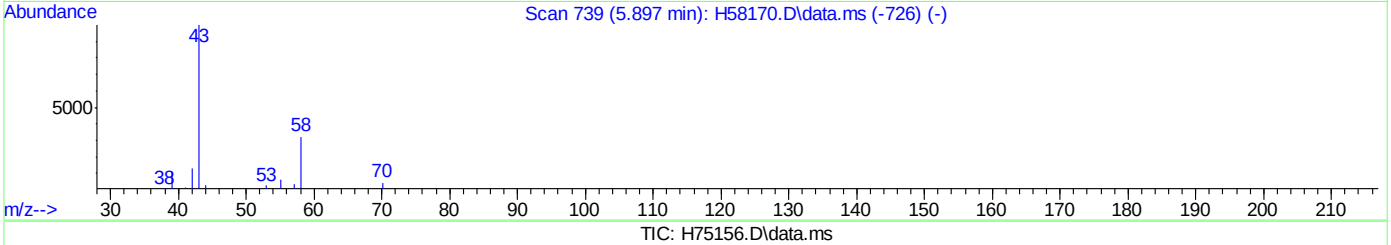
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(15) acetone (p)

5.837min (-0.018) 18.22ug/L m

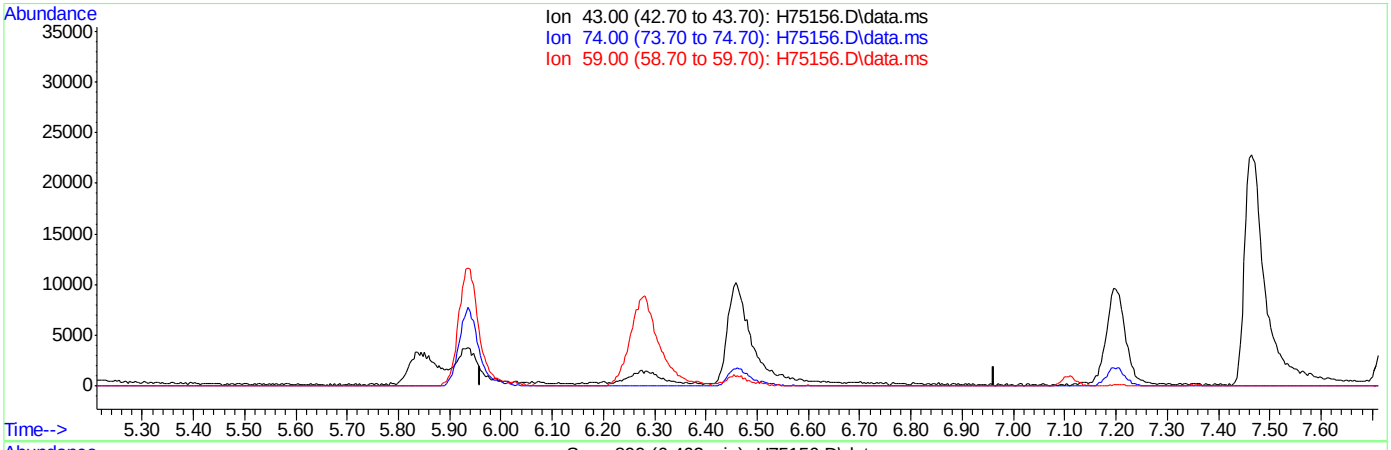
response 3738

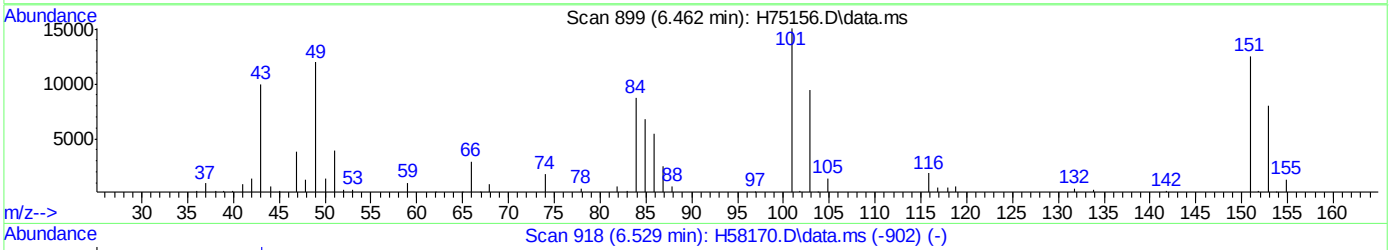
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	317.11
0.00	0.00	0.00
0.00	0.00	0.00

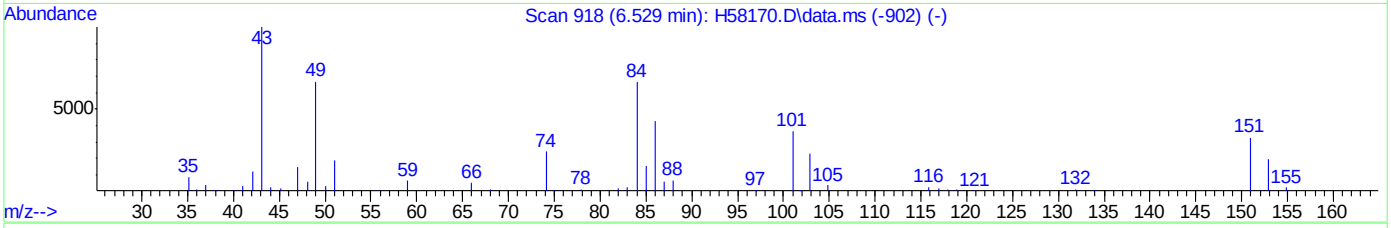
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(17) methyl acetate (p)

6.462min (-6.462) 0.00ug/L

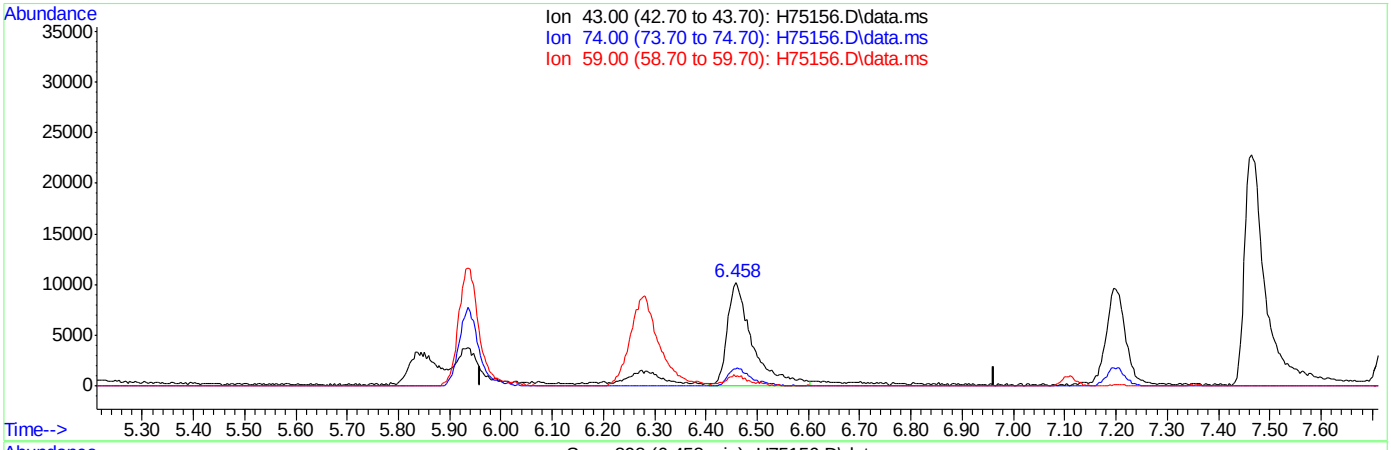
response 0

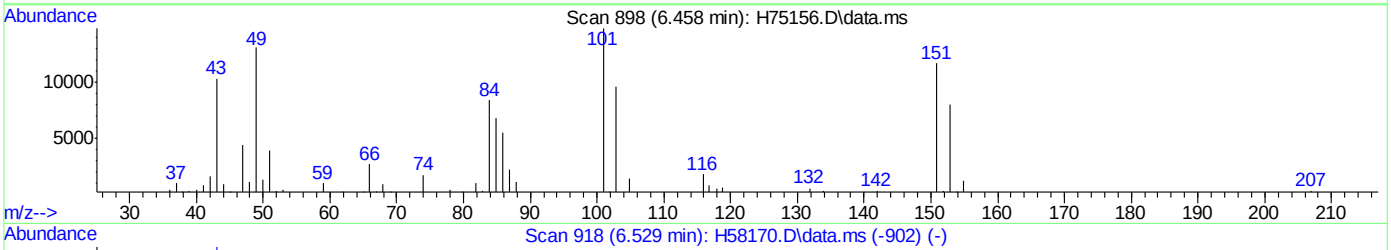
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

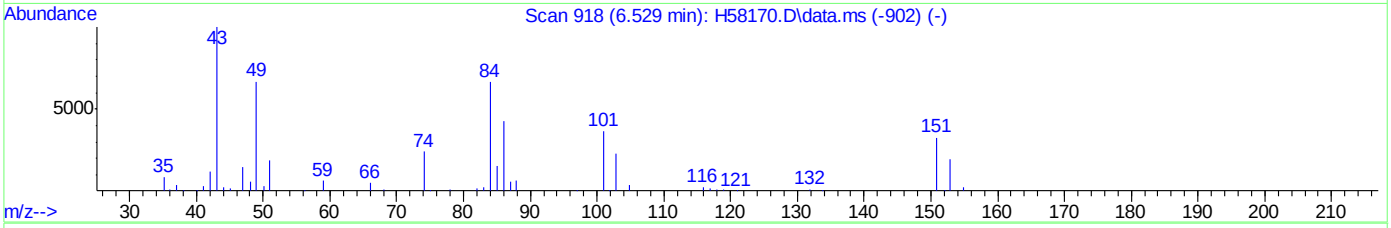
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(17) methyl acetate (p)

6.458min (-0.004) 17.12ug/L m

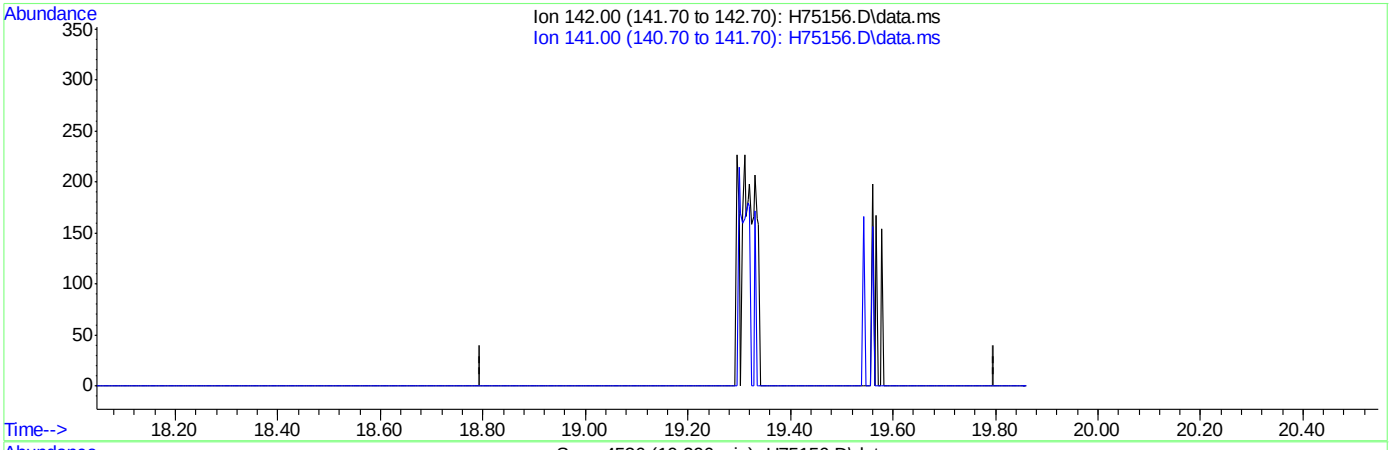
response 35148

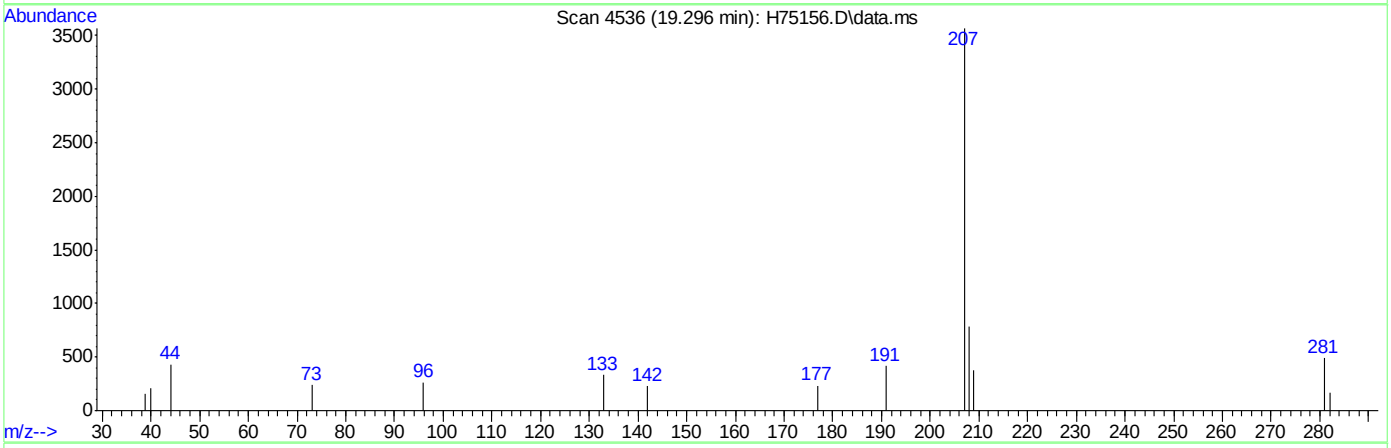
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	16.32
59.00	13.30	9.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(104) 2-Methylnaphthalene (p)

19.297min (-19.297) 0.00ug/L

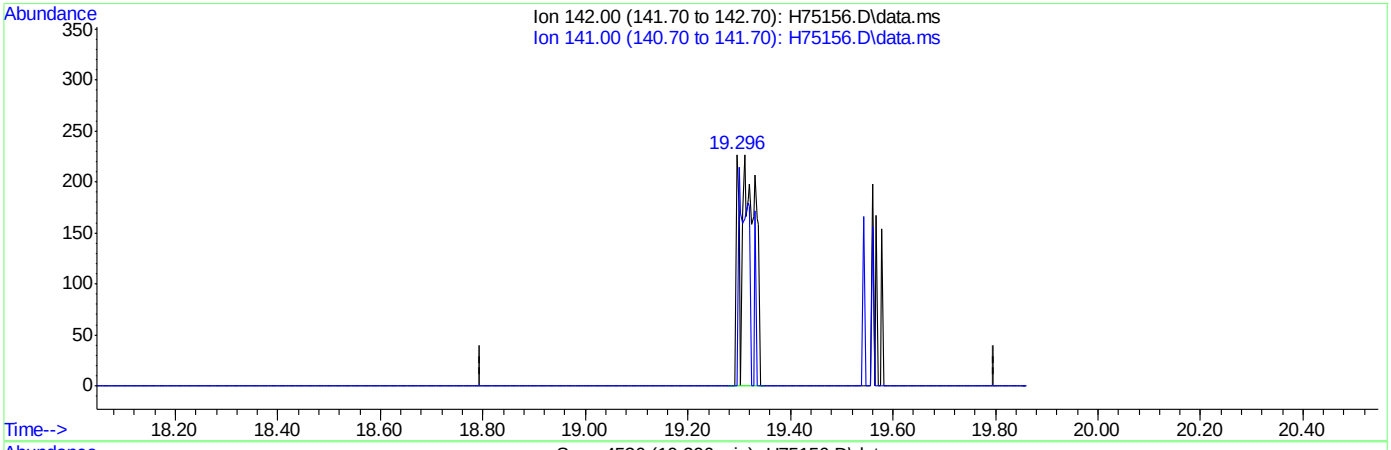
response 0

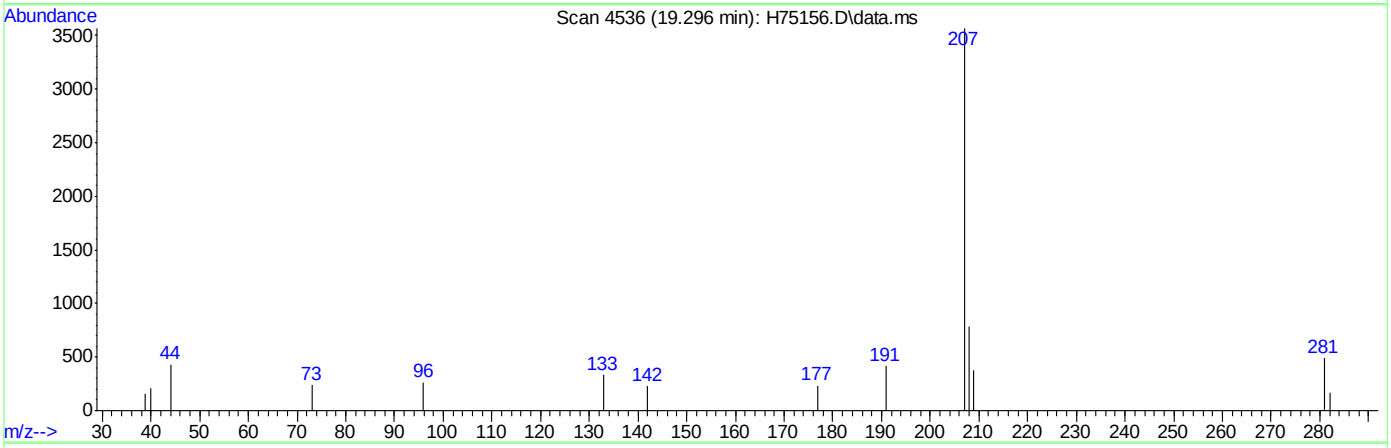
Ion	Exp%	Act%
142.00	100	0.00
141.00	91.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





(104) 2-Methylnaphthalene (p)

19.296min (-0.001) 7.82ug/L m

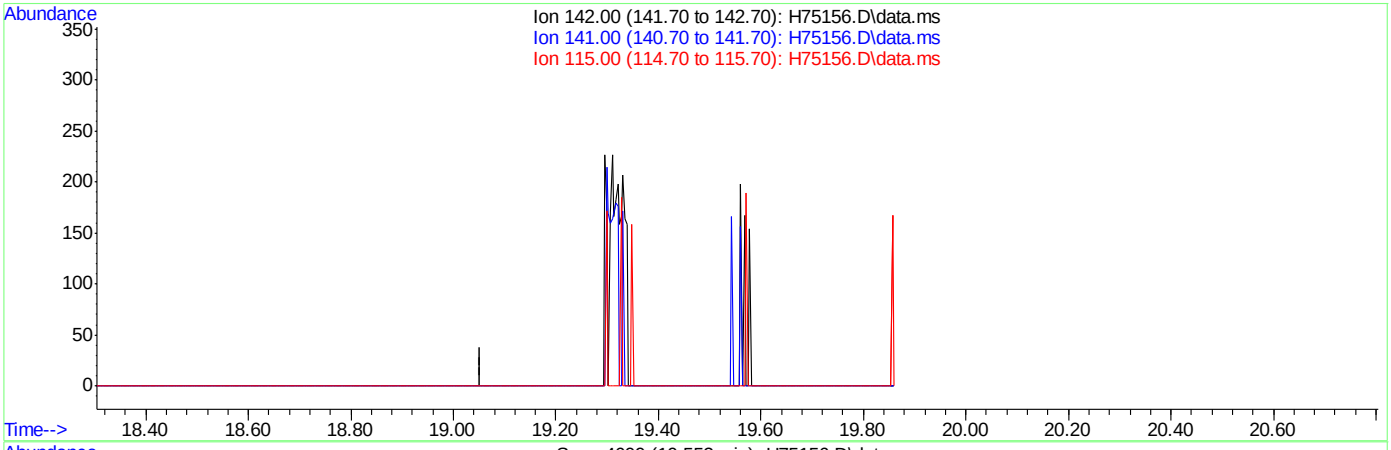
response 465

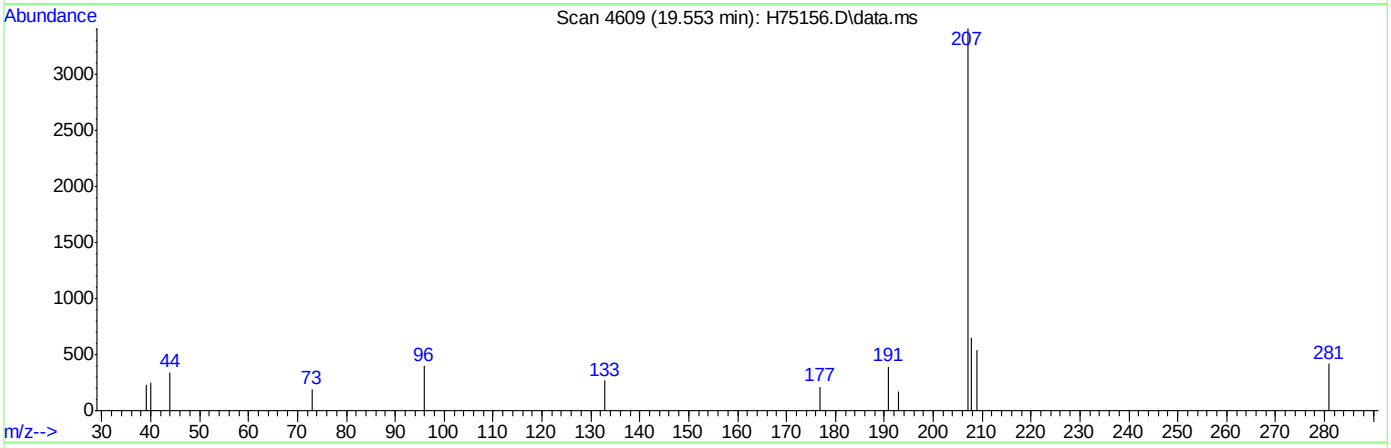
Ion	Exp%	Act%
142.00	100	100
141.00	91.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(105) 1-Methylnaphthalene (p)

19.554min (-19.554) 0.00ug/L

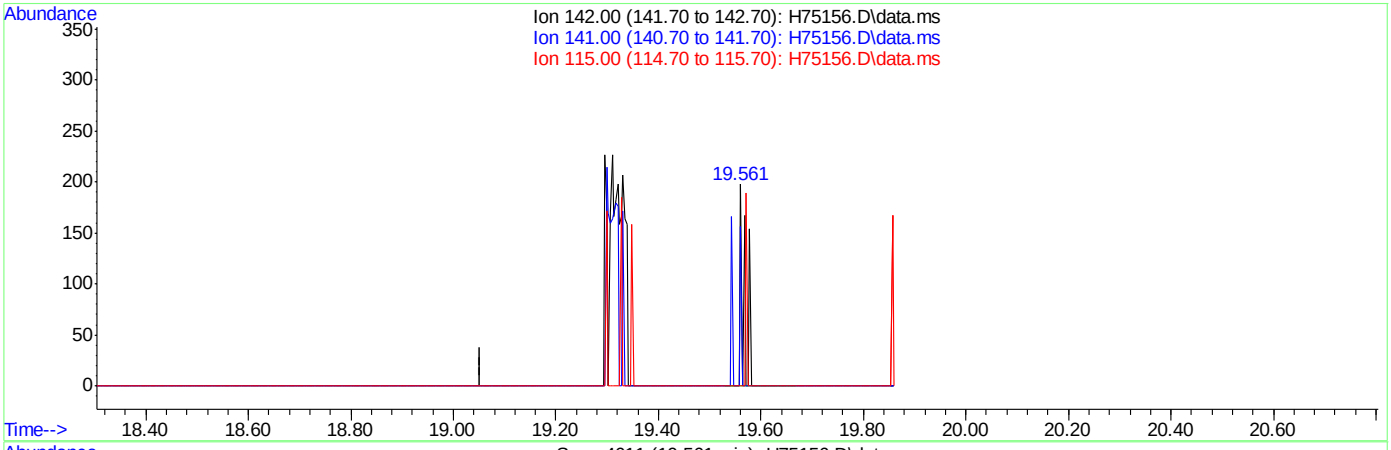
response 0

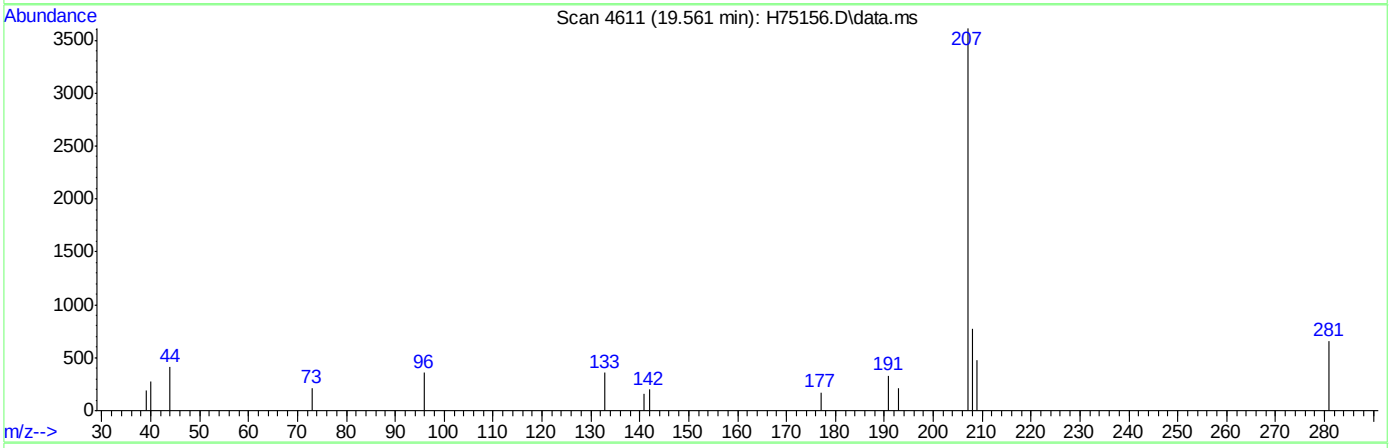
Ion	Exp%	Act%
142.00	100	0.00
141.00	21.50	0.00#
115.00	18.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(105) 1-Methylnaphthalene (p)

19.561min (+0.006) 2.79ug/L m

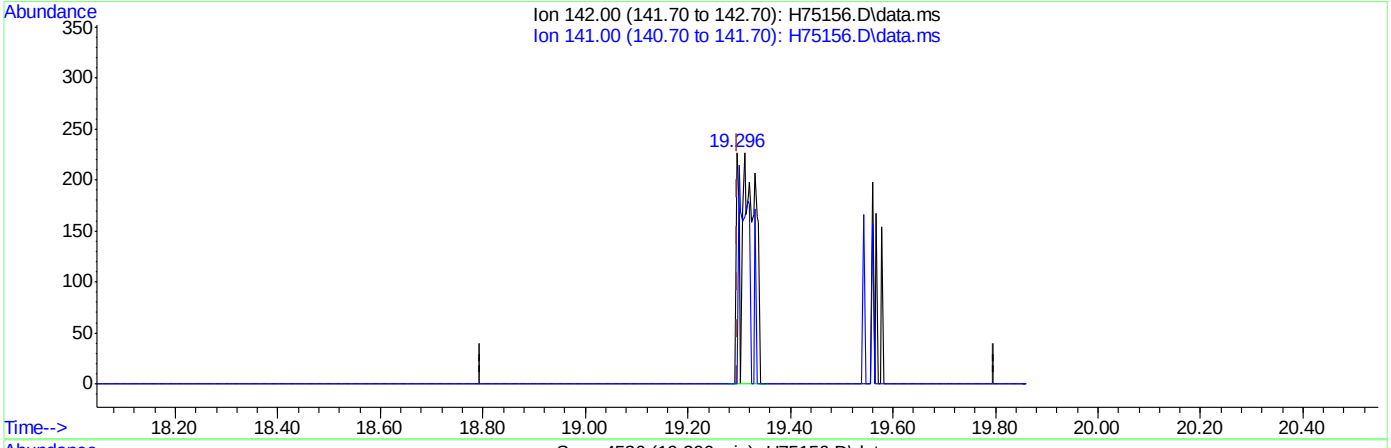
response 110

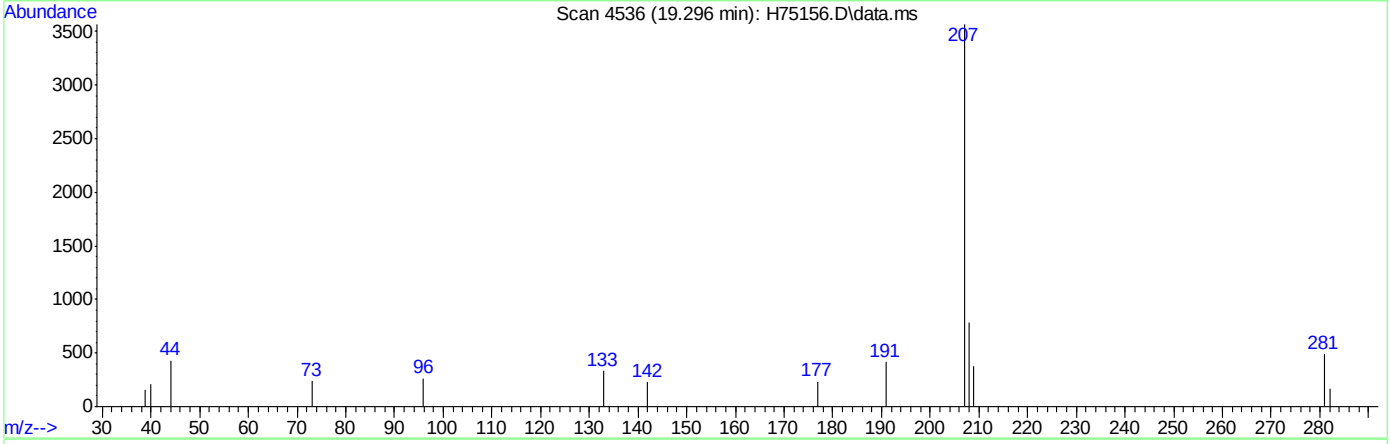
Ion	Exp%	Act%
142.00	100	100
141.00	21.50	0.00#
115.00	18.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





(104) 2-Methylnaphthalene (p)

19.296min (-0.001) 7.82ug/L m

response 465

Ion	Exp%	Act%
142.00	100	100
141.00	91.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

H75157.D

Manual Integrations APPROVED (compounds with "m" flag)

Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	86277	50.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	201066	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	313504	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	185806	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	171604	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	101445	40.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.28%			
60) toluene-d8 (s)	11.276	98	380930	40.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.68%			
82) bromofluorobenzene (s)	13.961	95	162048	40.75	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.50%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.276	59	92615	46.61	ug/L	100
3) Ethanol	5.108	45	106882m	144.22	ug/L	
5) dichlorodifluoromethane	4.021	85	110584	48.43	ug/L	98
6) chloromethane	4.268	50	97935	42.73	ug/L	93
7) vinyl chloride	4.494	62	105049	50.98	ug/L	98
8) bromomethane	4.952	96	67483	48.67	ug/L	100
9) chloroethane	5.104	64	62844	49.07	ug/L	100
10) acetonitrile	5.602	41	1436	48.54	ug/L	66
11) trichlorofluoromethane	5.693	101	156107	51.66	ug/L	96
12) freon-113	6.459	101	94285	46.52	ug/L	91
13) acrolein	5.693	56	23321	142.23	ug/L	92
14) 1,1-dichloroethene	6.272	96	83915	48.83	ug/L #	79
15) acetone	5.838	58	10367m	49.81	ug/L	
16) ethyl ether	5.930	59	83215	48.57	ug/L	85
17) methyl acetate	6.452	43	88281	42.99	ug/L	91
18) methylene chloride	6.445	84	101664	45.34	ug/L #	75
19) methyl tert butyl ether	7.200	73	258024	48.55	ug/L	89
20) acrylonitrile	6.332	53	40786	55.62	ug/L	94
21) allyl chloride	6.512	41	167499m	45.48	ug/L	
22) trans-1,2-dichloroethene	7.105	96	90843	46.88	ug/L	85
23) iodomethane	6.360	142	145982	47.30	ug/L	90
24) carbon disulfide	6.692	76	297185	46.54	ug/L	98
25) propionitrile	7.373	54	12954	54.62	ug/L	100
26) vinyl acetate	7.458	43	184839	49.64	ug/L	93
27) chloroprene	7.722	53	161365	48.95	ug/L	99
28) di-isopropyl ether	7.761	45	347700	48.26	ug/L	90
29) methacrylonitrile	7.871	41	63839	46.30	ug/L	96
30) 2-butanone	7.768	72	12177	55.46	ug/L #	60
31) 1,1-dichloroethane	7.355	63	184060	45.89	ug/L	95
32) tert-butyl ethyl ether	8.160	59	320901	49.90	ug/L	91
33) Hexane	7.744	41	176384	46.00	ug/L	86
34) isobutyl alcohol	8.156	43	43575	106.66	ug/L	78
35) 2,2-dichloropropane	8.213	77	136977	46.83	ug/L	96
36) cis-1,2-dichloroethene	7.924	96	99929	46.76	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.156	43	44030	39.60	ug/L		99
38) bromochloromethane	8.089	128	48388	46.04	ug/L	#	53
39) chloroform	8.128	83	176042	45.61	ug/L		99
41) 1,1,1-trichloroethane	8.876	97	146621	48.97	ug/L		93
43) cyclohexane	9.159	56	177826	48.05	ug/L	#	79
44) carbon tetrachloride	9.243	117	121695	52.41	ug/L		95
45) 1,1-dichloropropene	9.053	75	129546	48.66	ug/L		94
46) benzene	9.275	78	378823	47.52	ug/L		100
47) tetrahydrofuran	8.460	42	32591	48.62	ug/L		95
48) 1,2-dichloroethane	8.777	62	138837	45.73	ug/L		100
49) tert-amyl methyl ether	9.402	73	267649	51.62	ug/L		90
50) heptane	9.762	43	134878	47.18	ug/L		92
51) trichloroethene	9.896	95	101849	49.57	ug/L		82
52) 1,2-dichloropropane	9.861	63	103731	46.80	ug/L		95
53) dibromomethane	9.833	93	64183	48.89	ug/L		96
54) bromodichloromethane	9.949	83	130486	50.81	ug/L		95
55) methylcyclohexane	10.415	83	161525	48.32	ug/L		86
56) 2-chloroethyl vinyl ether	10.330	63	71306	51.57	ug/L		88
57) methyl methacrylate	10.055	69	67268	51.55	ug/L		92
58) 1,4-dioxane	10.058	88	3994	112.07	ug/L		94
59) cis-1,3-dichloropropene	10.574	75	151348	53.83	ug/L		90
61) 4-methyl-2-pentanone	10.665	43	103929	46.09	ug/L		93
62) toluene	11.346	92	230939	47.64	ug/L		96
63) trans-1,3-dichloropropene	10.994	75	142607	58.42	ug/L		97
64) 1,1,2-trichloroethane	11.163	83	77200	47.63	ug/L		93
65) ethyl methacrylate	11.375	69	127668	51.94	ug/L		88
67) tetrachloroethene	12.088	166	106032	49.89	ug/L		92
68) 1,3-dichloropropane	11.399	76	152469	45.59	ug/L		97
69) dibromochloromethane	11.685	129	91527	56.92	ug/L		99
70) 1,2-dibromoethane	11.936	107	91249	48.24	ug/L		94
71) 2-hexanone	11.530	43	76730	49.26	ug/L		94
72) chlorobenzene	12.769	112	266613	45.51	ug/L		90
73) 1,1,1,2-tetrachloroethane	12.687	131	86900	50.39	ug/L		95
74) ethylbenzene	12.945	91	453136	49.81	ug/L		97
75) m,p-xylene	13.132	106	352382	90.68	ug/L		98
76) o-xylene	13.545	106	177174	50.80	ug/L		100
77) styrene	13.471	104	280541	48.60	ug/L		97
78) bromoform	13.291	173	58318	61.41	ug/L		100
79) trans-1,4-dichloro-2-b...	13.704	53	31135	61.04	ug/L		94
81) isopropylbenzene	13.908	105	444058	47.94	ug/L		99
83) bromobenzene	14.187	156	120077	47.03	ug/L		85
84) 1,1,2,2-tetrachloroethane	13.545	83	115157	49.26	ug/L		96
85) 1,2,3-trichloropropane	13.697	75	126244	50.79	ug/L		95
86) n-propylbenzene	14.353	91	530803	48.85	ug/L		94
87) 2-chlorotoluene	14.469	91	314670	47.05	ug/L		90
88) 4-chlorotoluene	14.544	91	331465	47.58	ug/L		90
89) 1,3,5-trimethylbenzene	14.635	105	374941	50.76	ug/L		99
90) tert-butylbenzene	14.939	91	221075	47.95	ug/L		89
91) 1,2,4-trimethylbenzene	15.045	105	382430	51.04	ug/L		99
92) sec-butylbenzene	15.161	105	477141	48.07	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.260	146	216161	47.30	ug/L	98
94) p-isopropyltoluene	15.338	119	407507	48.42	ug/L	97
95) 1,4-dichlorobenzene	15.327	146	232756	45.41	ug/L	98
96) 1,2-dichlorobenzene	15.694	146	204036	46.87	ug/L	98
97) n-butylbenzene	15.757	91	372773	48.89	ug/L	92
98) 1,2-dibromo-3-chloropr...	16.177	75	12526	49.12	ug/L	83
99) 1,3,5-trichlorobenzene	16.993	180	130257	46.21	ug/L	95
100) 1,2,4-trichlorobenzene	17.547	180	70281	46.07	ug/L	98
101) hexachlorobutadiene	17.850	225	51115	44.46	ug/L	95
102) naphthalene	17.822	128	110514	46.66	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	70281	46.07	ug/L	100
104) 2-Methylnaphthalene	19.297	142	1566	25.00	ug/L	91
105) 1-Methylnaphthalene	19.554	142	1038	25.00	ug/L #	12

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

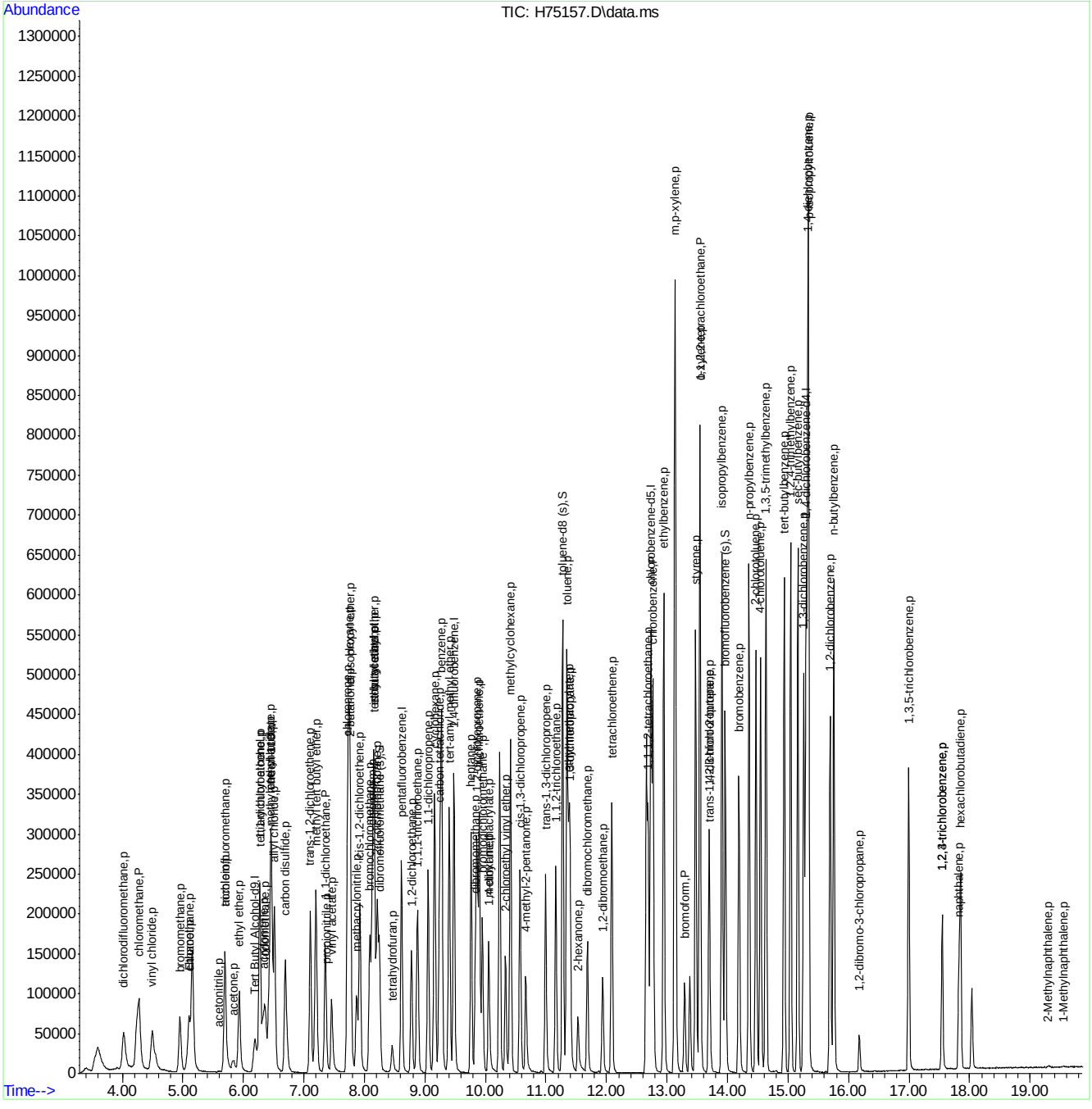
7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

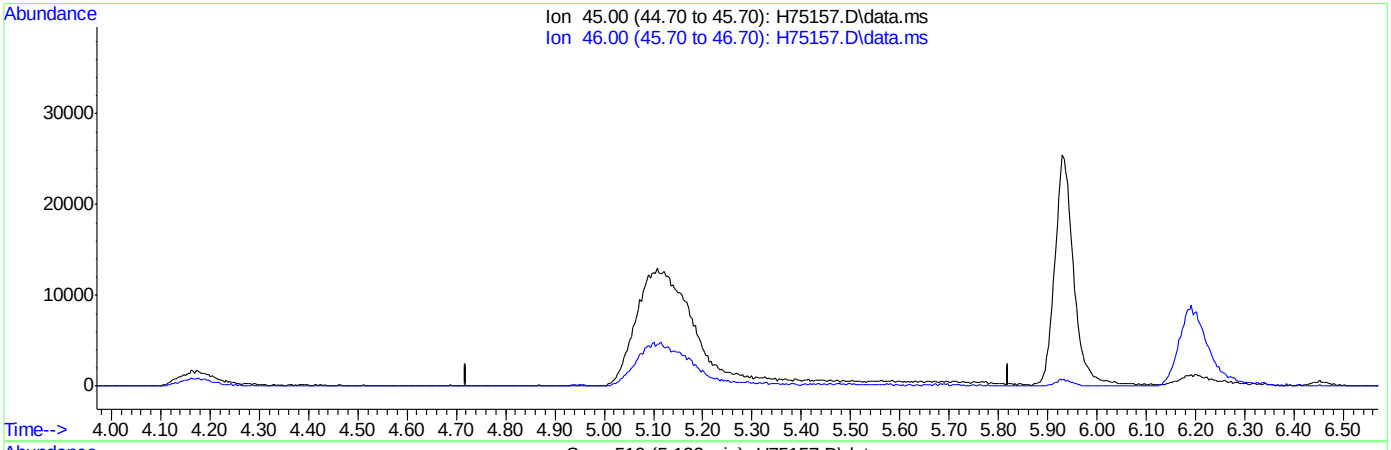
Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

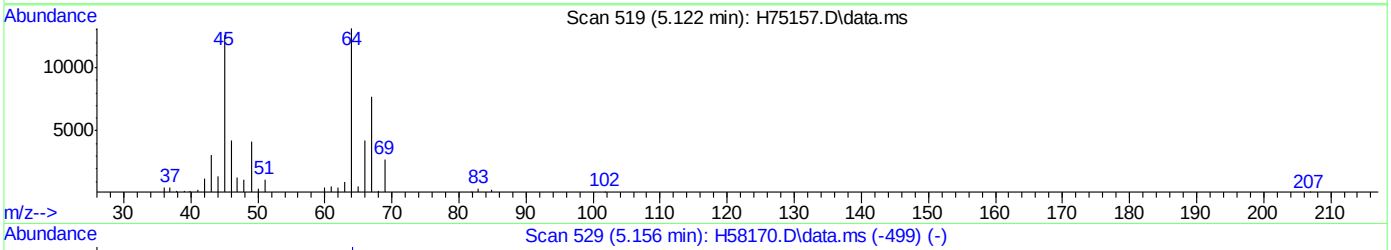


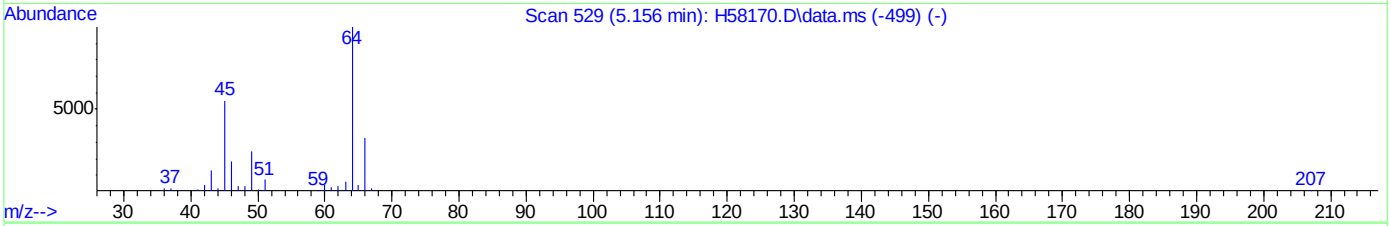
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(3) Ethanol (p)

5.121min (-5.121) 0.00ug/L

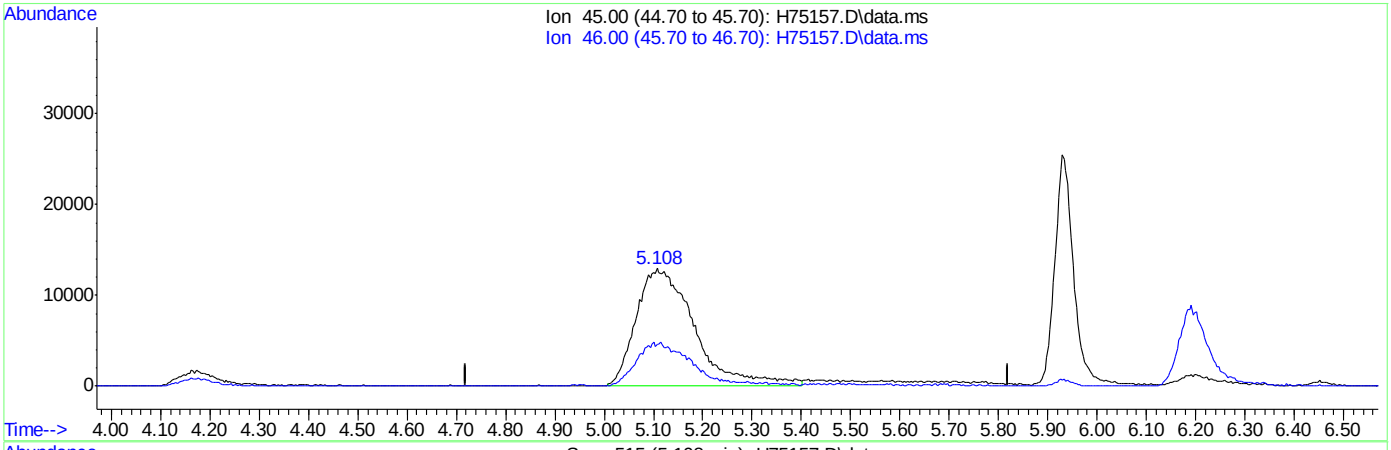
response 0

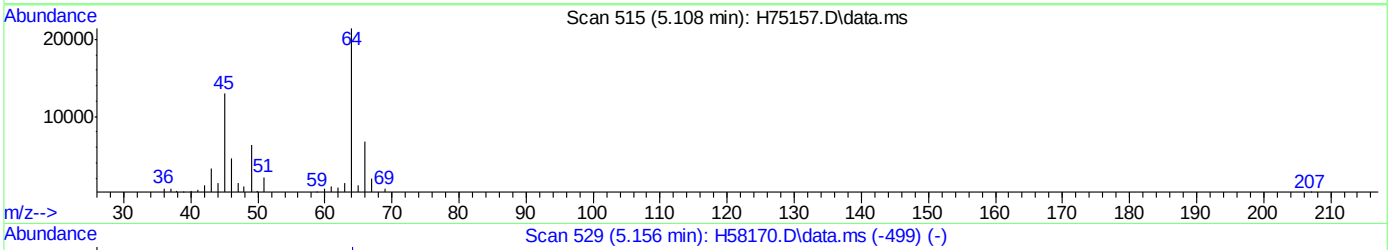
Ion	Exp%	Act%
45.00	100	0.00
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

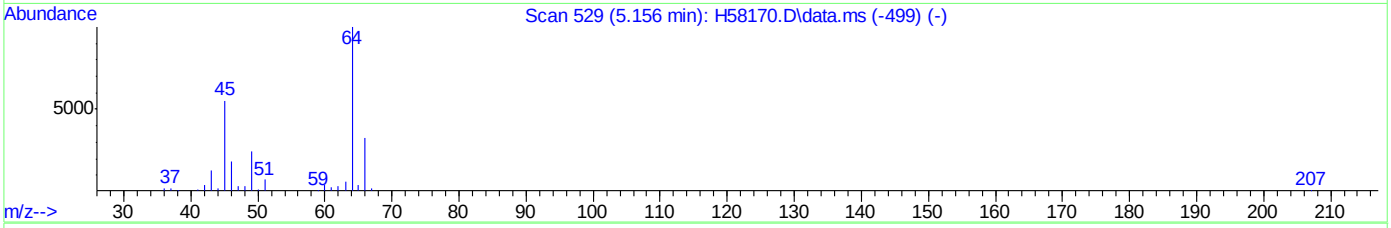
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(3) Ethanol (p)

5.108min (-0.013) 144.22ug/L m

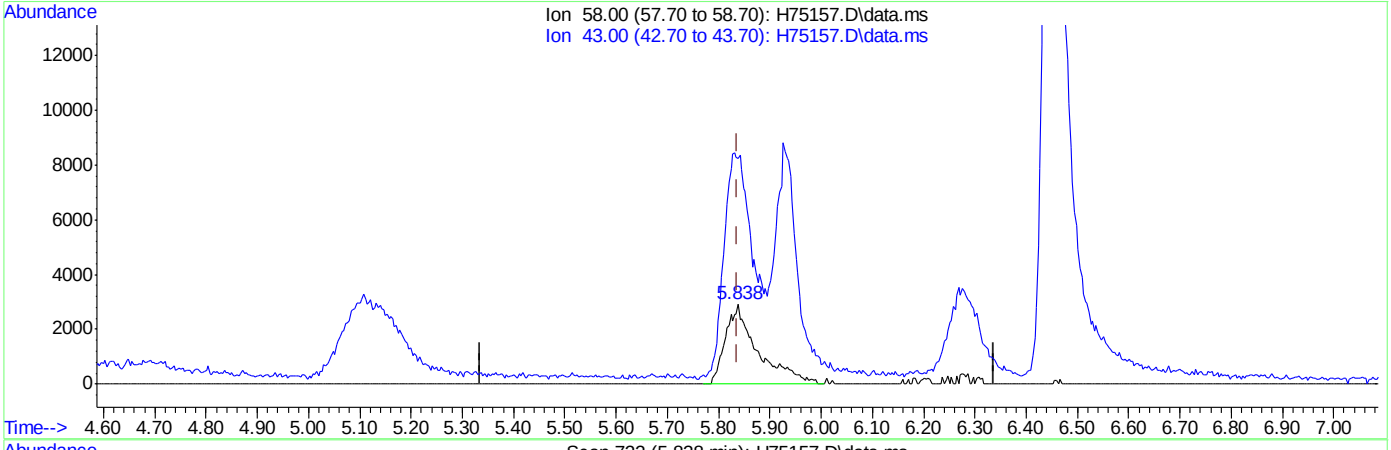
response 106882

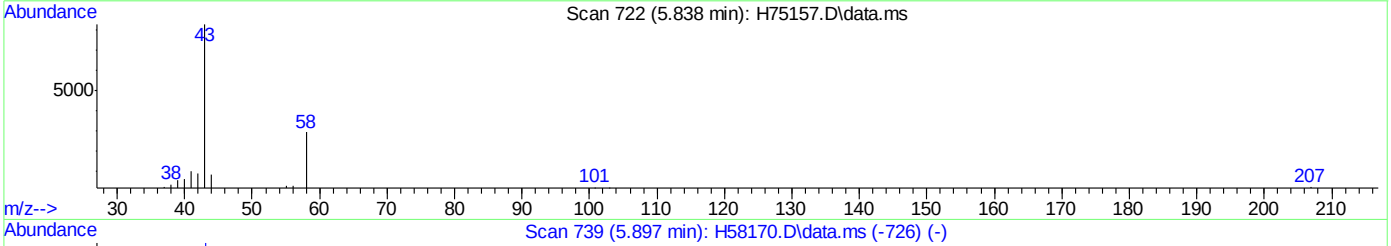
Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

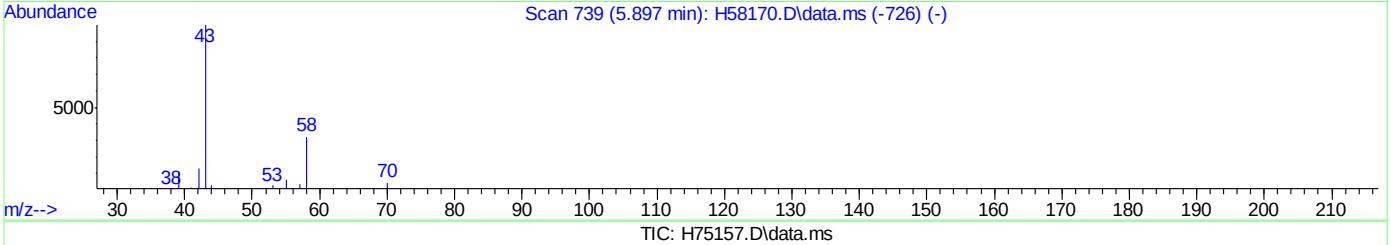
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(15) acetone (p)

5.838min (+0.001) 61.06ug/L

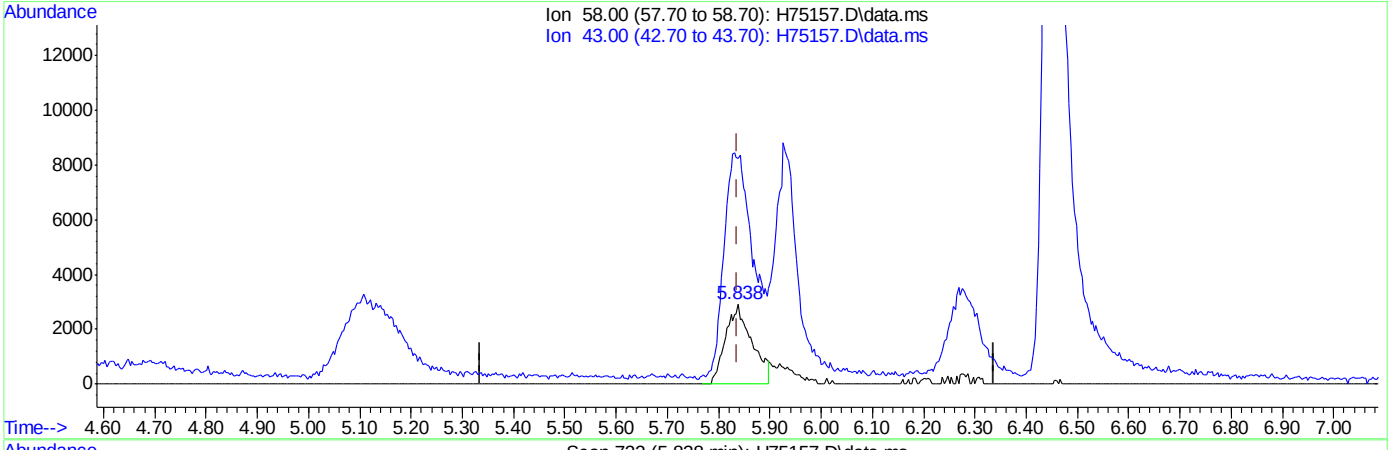
response 12708

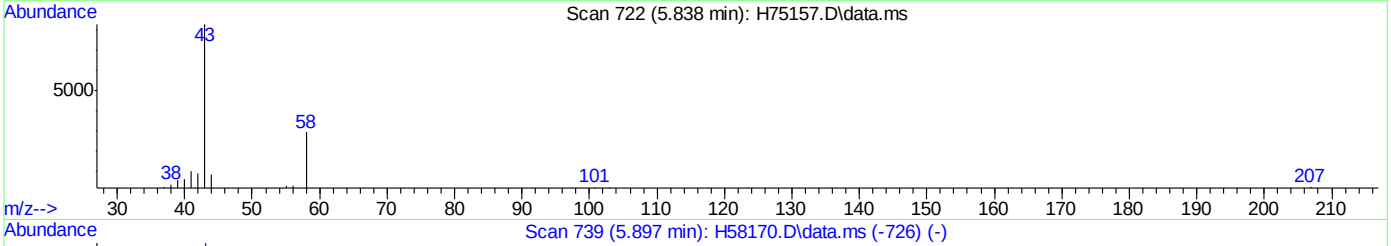
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	270.13#
0.00	0.00	0.00
0.00	0.00	0.00

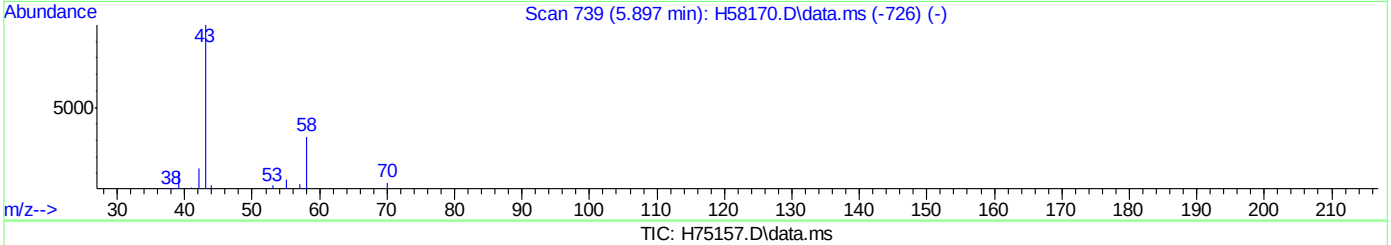
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(15) acetone (p)

5.838min (+0.001) 49.81ug/L m

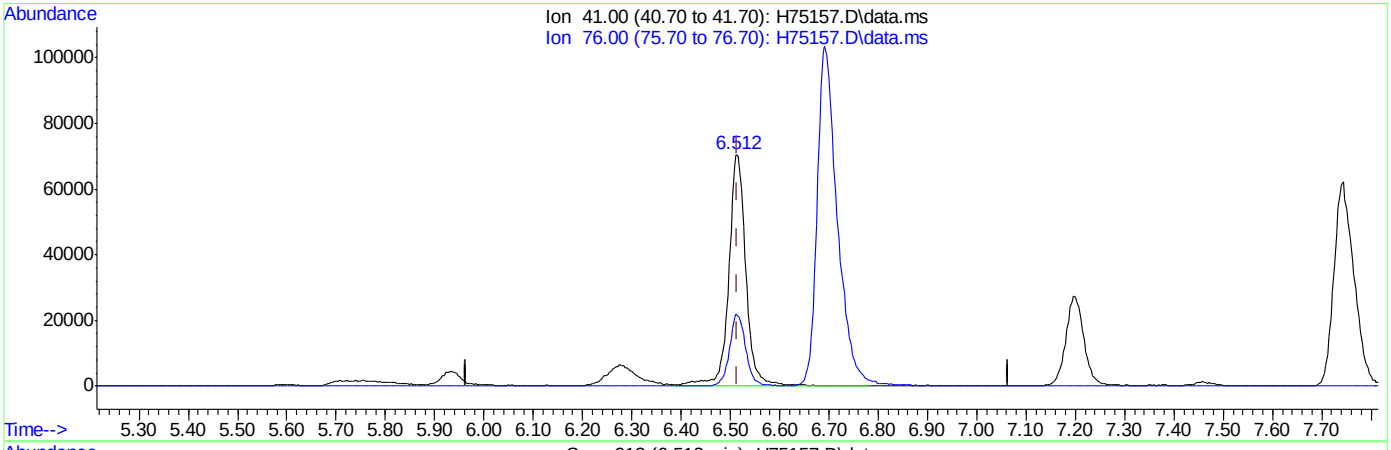
response 10367

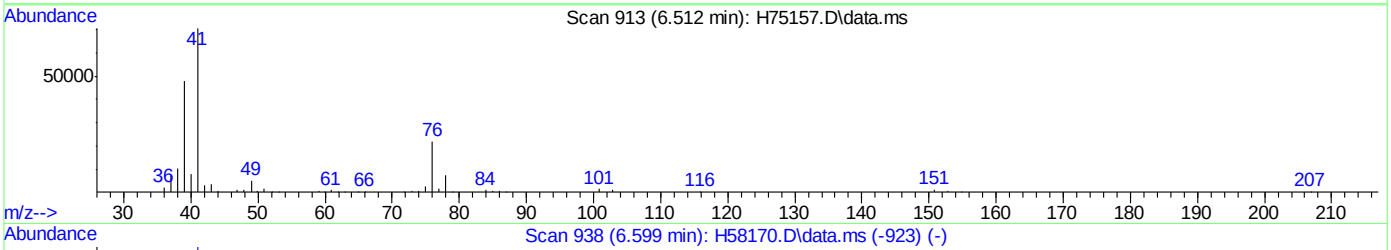
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	282.31
0.00	0.00	0.00
0.00	0.00	0.00

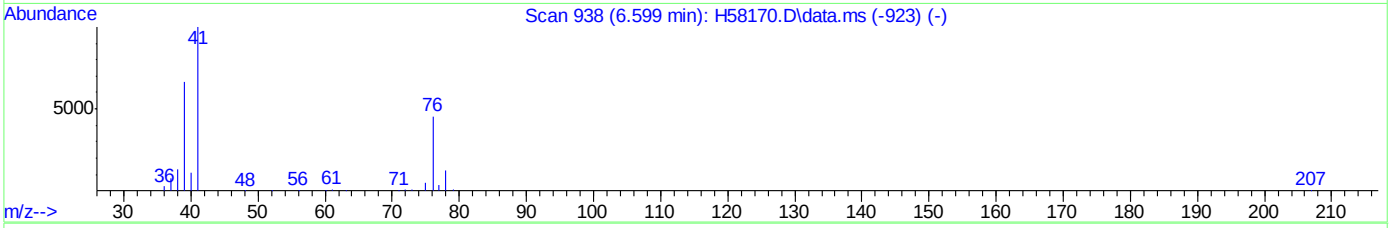
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(21) allyl chloride (p)

6.512min (-0.003) 46.88ug/L

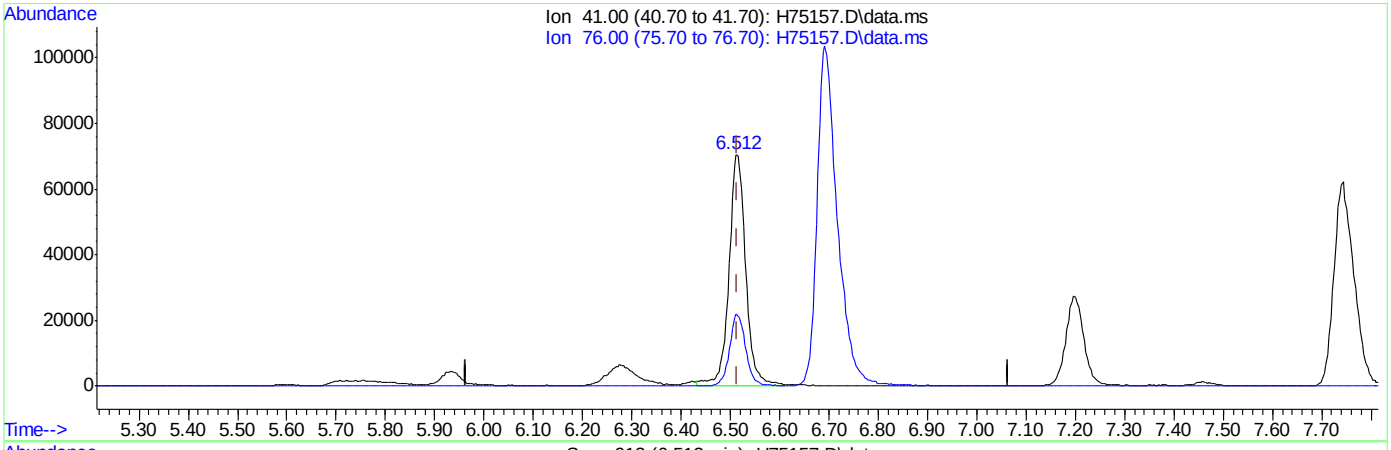
response 172653

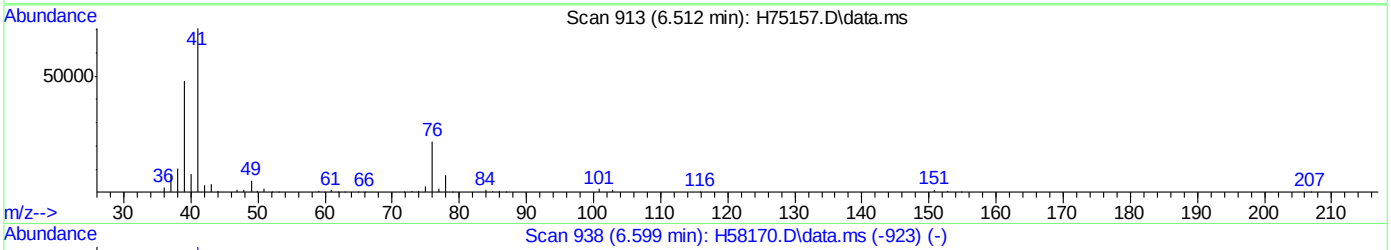
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.17
0.00	0.00	0.00
0.00	0.00	0.00

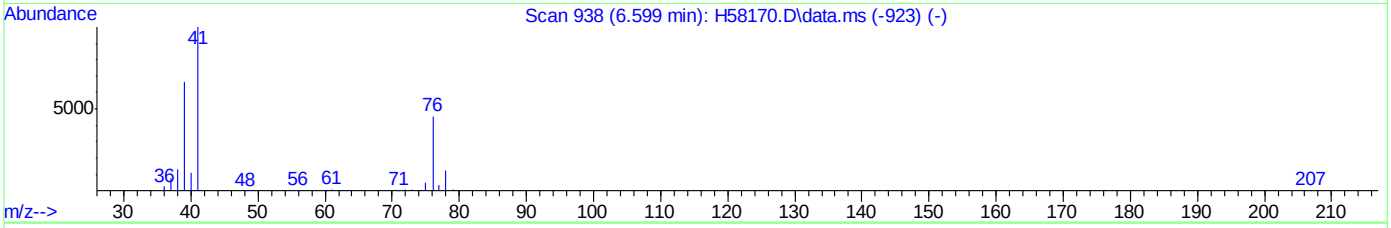
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(21) allyl chloride (p)

6.512min (-0.003) 45.48ug/L m

response 167499

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.188	65	91409	500.00	ug/L	0.00
4) pentafluorobenzene	8.616	168	215895	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	335542	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	192632m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	171098	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	107211	40.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 80.00%			
60) toluene-d8 (s)	11.276	98	400291	40.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 80.18%			
82) bromofluorobenzene (s)	13.962	95	173828	43.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.68%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.272	59	209481	1213.28	ug/L	94
3) Ethanol	5.097	45	238443m	12577.10	ug/L	
5) dichlorodifluoromethane	4.025	85	231839	94.56	ug/L	100
6) chloromethane	4.265	50	191396	78.09	ug/L	97
7) vinyl chloride	4.494	62	224974	101.68	ug/L	99
8) bromomethane	4.956	96	138780	93.19	ug/L	100
9) chloroethane	5.108	64	136550	99.28	ug/L	99
10) acetonitrile	5.595	41	3001	94.47	ug/L	75
11) trichlorofluoromethane	5.694	101	335554	103.42	ug/L	99
12) freon-113	6.463	101	208605	95.85	ug/L	91
13) acrolein	5.690	56	52848	593.72	ug/L	92
14) 1,1-dichloroethene	6.269	96	187118	101.40	ug/L #	77
15) acetone	5.821	58	23936m	108.25	ug/L	
16) ethyl ether	5.930	59	186306	101.28	ug/L	86
17) methyl acetate	6.449	43	199288m	90.79	ug/L	
18) methylene chloride	6.445	84	223457	92.81	ug/L #	74
19) methyl tert butyl ether	7.201	73	583545	102.26	ug/L	89
20) acrylonitrile	6.322	53	92691	117.71	ug/L	97
21) allyl chloride	6.512	41	371300m	93.76	ug/L	
22) trans-1,2-dichloroethene	7.105	96	203235	97.69	ug/L	83
23) iodomethane	6.364	142	328609	99.16	ug/L	88
24) carbon disulfide	6.692	76	669816	97.71	ug/L	98
25) propionitrile	7.363	54	31658	127.51	ug/L	100
26) vinyl acetate	7.455	43	396354	99.14	ug/L	94
27) chloroprene	7.719	53	364488	102.97	ug/L	100
28) di-isopropyl ether	7.762	45	764639	98.84	ug/L	93
29) methacrylonitrile	7.871	41	145257	98.25	ug/L	94
30) 2-butanone	7.762	72	27708	117.40	ug/L #	13
31) 1,1-dichloroethane	7.356	63	409128	94.99	ug/L	95
32) tert-butyl ethyl ether	8.157	59	736321	106.65	ug/L	91
33) Hexane	7.740	41	377065	91.55	ug/L #	84
34) isobutyl alcohol	8.157	43	93083	393.89	ug/L	81
35) 2,2-dichloropropane	8.213	77	307658	97.95	ug/L	97
36) cis-1,2-dichloroethene	7.924	96	222480	96.96	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.157	43	94498	79.16	ug/L		99
38) bromochloromethane	8.086	128	108292	95.96	ug/L	#	53
39) chloroform	8.129	83	393010	94.82	ug/L		98
41) 1,1,1-trichloroethane	8.877	97	326920	101.69	ug/L		94
43) cyclohexane	9.159	56	394385	99.57	ug/L	#	78
44) carbon tetrachloride	9.240	117	279526	112.46	ug/L		96
45) 1,1-dichloropropene	9.053	75	292485	102.64	ug/L		92
46) benzene	9.272	78	846171	99.17	ug/L		100
47) tetrahydrofuran	8.453	42	71212	99.00	ug/L		90
48) 1,2-dichloroethane	8.778	62	305587	94.09	ug/L		99
49) tert-amyl methyl ether	9.399	73	607207	109.42	ug/L		92
50) heptane	9.762	43	292438	95.43	ug/L		92
51) trichloroethene	9.897	95	228891	104.25	ug/L		82
52) 1,2-dichloropropane	9.861	63	231530	97.60	ug/L		96
53) dibromomethane	9.837	93	142838	101.65	ug/L		98
54) bromodichloromethane	9.949	83	293467	106.77	ug/L		96
55) methylcyclohexane	10.415	83	358960	100.31	ug/L		87
56) 2-chloroethyl vinyl ether	10.331	63	152186	102.83	ug/L		89
57) methyl methacrylate	10.052	69	152090	108.90	ug/L		92
58) 1,4-dioxane	10.055	88	9827	626.94	ug/L		96
59) cis-1,3-dichloropropene	10.571	75	345134	114.70	ug/L		91
61) 4-methyl-2-pentanone	10.662	43	231946	96.10	ug/L		94
62) toluene	11.347	92	511172	98.53	ug/L		100
63) trans-1,3-dichloropropene	10.990	75	330249	126.39	ug/L		99
64) 1,1,2-trichloroethane	11.160	83	169581	97.76	ug/L		91
65) ethyl methacrylate	11.375	69	297086	112.92	ug/L		89
67) tetrachloroethene	12.088	166	237678	107.88	ug/L		91
68) 1,3-dichloropropane	11.400	76	336061	96.91	ug/L		97
69) dibromochloromethane	11.686	129	214097	128.42	ug/L		99
70) 1,2-dibromoethane	11.936	107	208984	106.57	ug/L		95
71) 2-hexanone	11.523	43	166160	103.07	ug/L		97
72) chlorobenzene	12.765	112	599123	98.65	ug/L		90
73) 1,1,1,2-tetrachloroethane	12.688	131	198194	110.84	ug/L		96
74) ethylbenzene	12.945	91	1038939	110.15	ug/L		98
75) m,p-xylene	13.132	106	817347	234.42	ug/L		100
76) o-xylene	13.545	106	405535	112.18	ug/L		100
77) styrene	13.471	104	661760	110.66	ug/L		98
78) bromoform	13.291	173	142017	144.25	ug/L		98
79) trans-1,4-dichloro-2-b...	13.697	53	76118	143.93	ug/L	#	79
81) isopropylbenzene	13.909	105	1005549	108.89	ug/L		99
83) bromobenzene	14.188	156	272180	106.91	ug/L		88
84) 1,1,2,2-tetrachloroethane	13.549	83	248692	106.69	ug/L		96
85) 1,2,3-trichloropropane	13.697	75	287056	115.83	ug/L		94
86) n-propylbenzene	14.353	91	1193699	110.15	ug/L		96
87) 2-chlorotoluene	14.470	91	688330	103.14	ug/L		91
88) 4-chlorotoluene	14.547	91	741259	106.77	ug/L		91
89) 1,3,5-trimethylbenzene	14.636	105	810705	110.08	ug/L		99
90) tert-butylbenzene	14.936	91	468773	101.99	ug/L		90
91) 1,2,4-trimethylbenzene	15.045	105	816411	109.28	ug/L		100
92) sec-butylbenzene	15.162	105	1001642	101.21	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.260	146	464297	101.90	ug/L	100
94) p-isopropyltoluene	15.338	119	858243	102.27	ug/L	98
95) 1,4-dichlorobenzene	15.327	146	497273	97.30	ug/L	99
96) 1,2-dichlorobenzene	15.694	146	408800	94.19	ug/L	99
97) n-butylbenzene	15.754	91	764630	100.58	ug/L	92
98) 1,2-dibromo-3-chloropr...	16.178	75	23263	91.50	ug/L	91
99) 1,3,5-trichlorobenzene	16.993	180	233716	83.16	ug/L #	95
100) 1,2,4-trichlorobenzene	17.547	180	120754	79.40	ug/L	96
101) hexachlorobutadiene	17.850	225	77723	67.81	ug/L	98
102) naphthalene	17.822	128	177505	75.16	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	120754	79.40	ug/L	98
104) 2-Methylnaphthalene	19.294	142	3091	49.49	ug/L	95
105) 1-Methylnaphthalene	19.562	142	2118	51.16	ug/L #	1

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

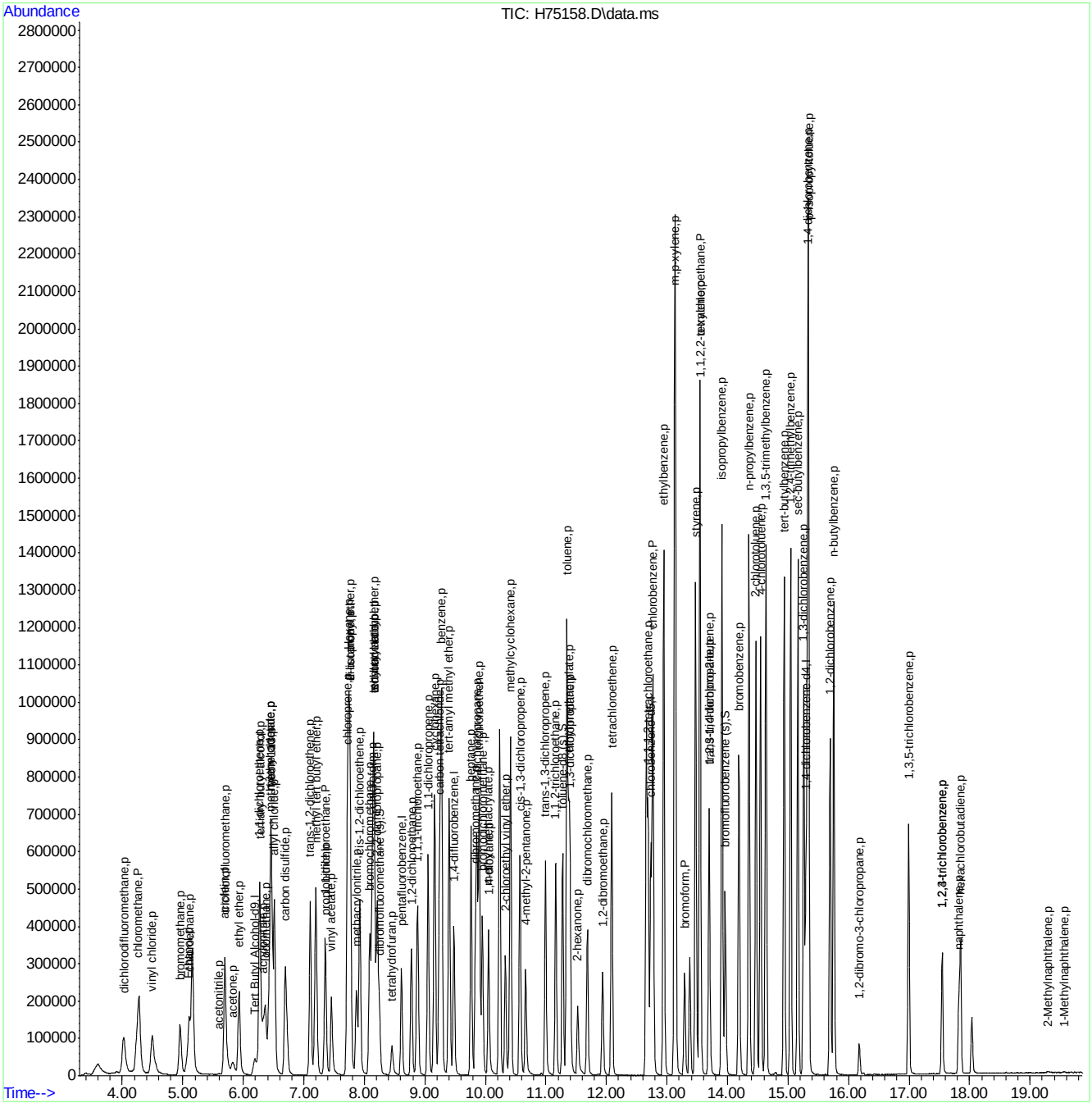
7.6.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

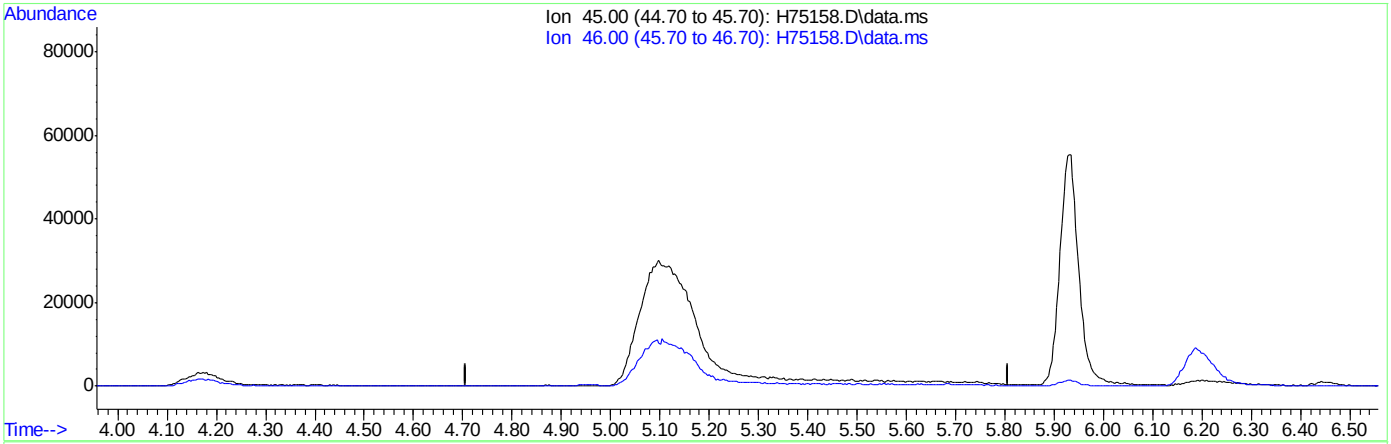


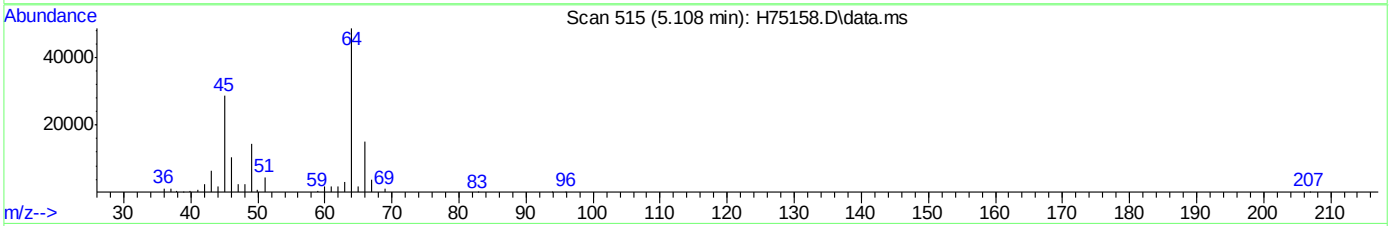
ACCUTEST LABORATORIES MC41696

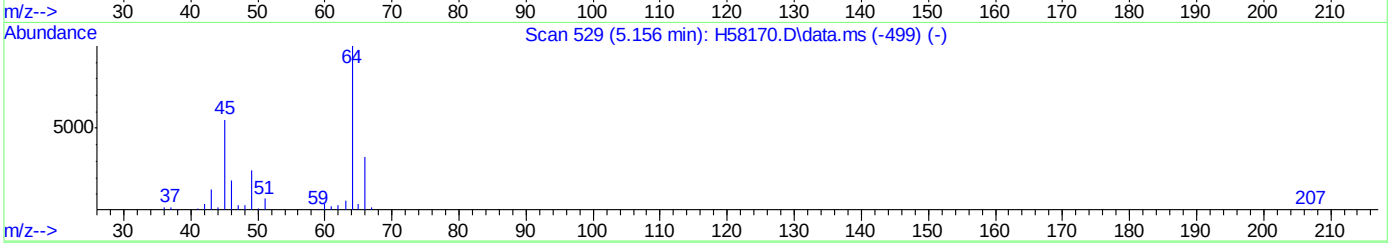
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(3) Ethanol (p)

5.108min (-5.108) 0.00ug/L

response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On    : 25 Sep 2015   6:29 pm
Operator  : kaylap
Sample    : ic2500-100
Misc      : ms35288,msh2500,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration
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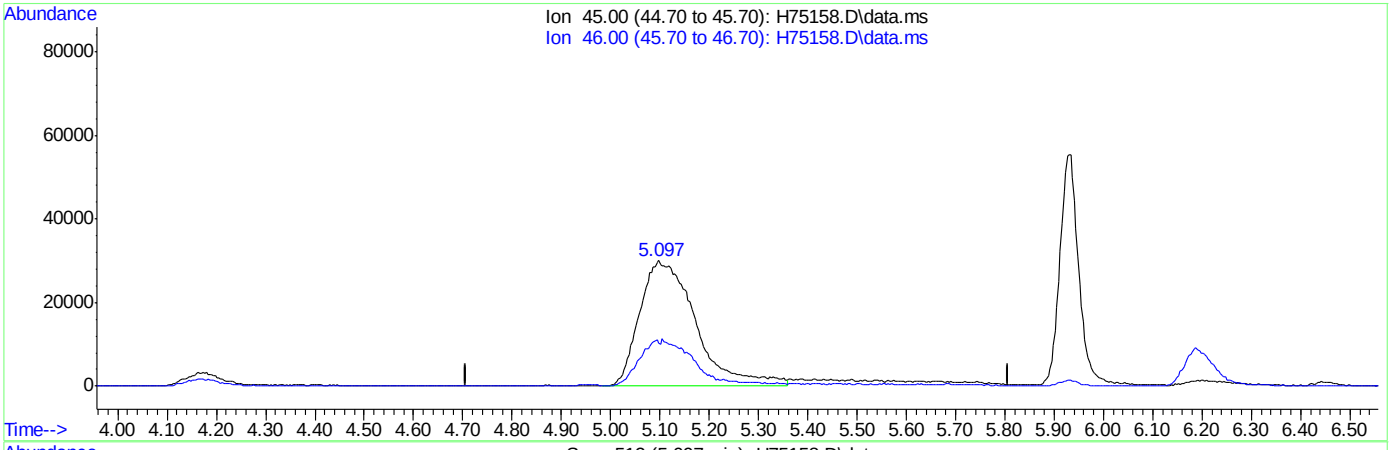
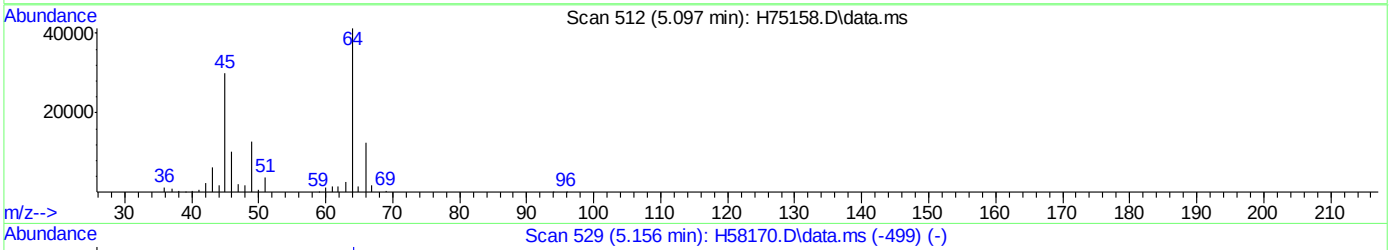
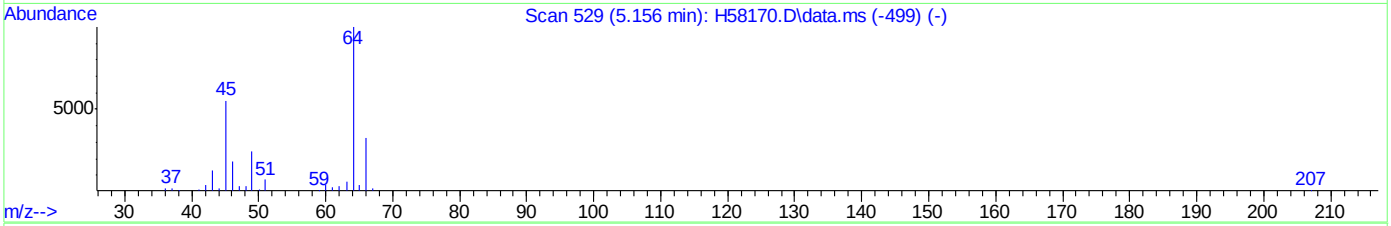






TIC: H75158.D\data.ms

(3) Ethanol (p)

5.097min (-0.010) 12577.10ug/L m

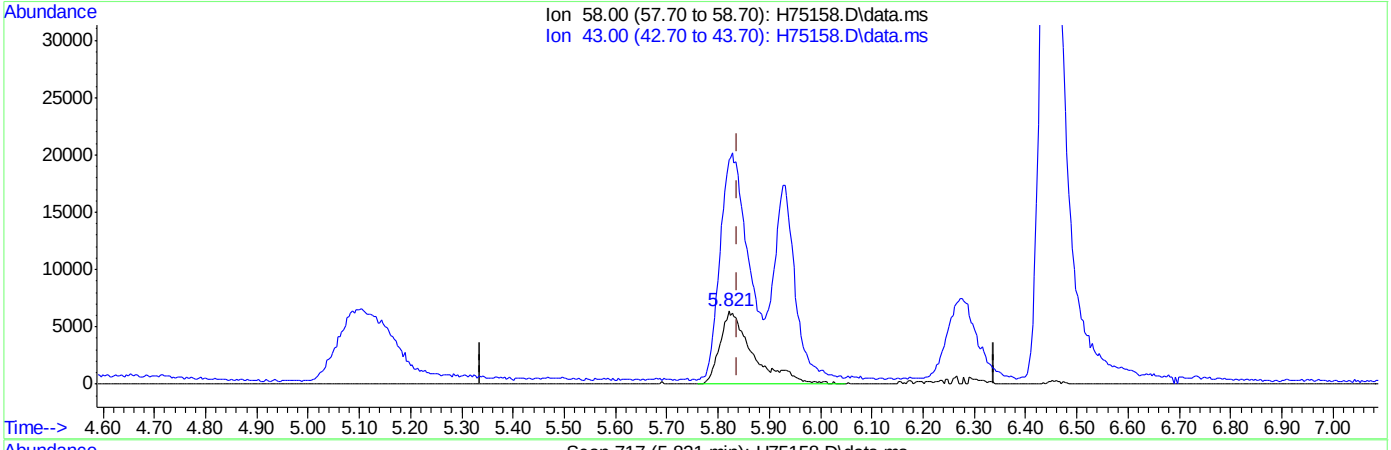
response 238443

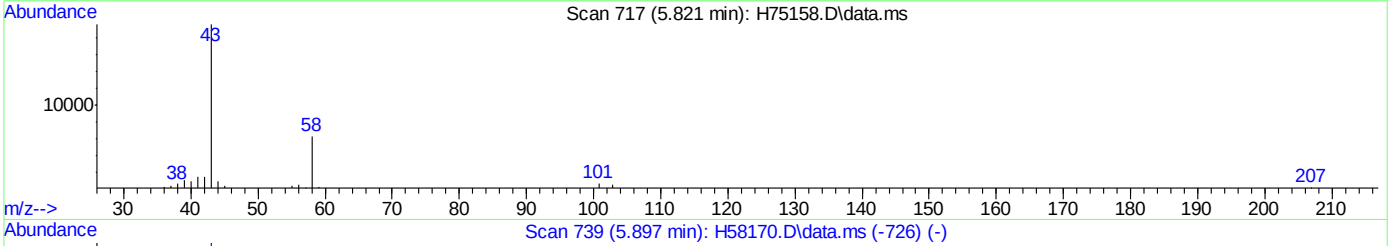
Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

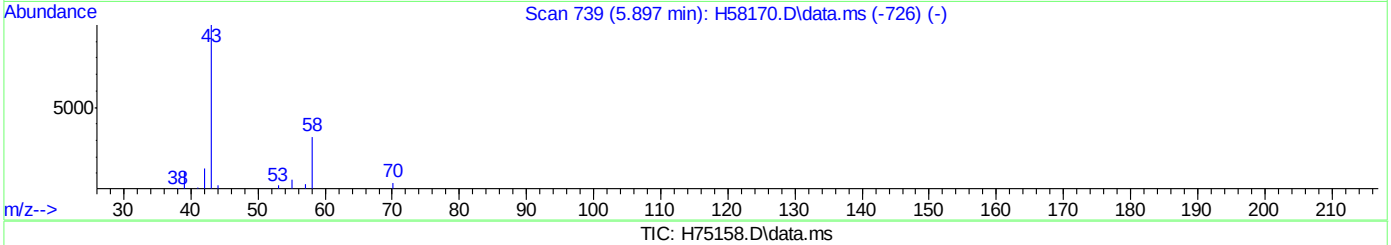
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(15) acetone (p)

5.821min (-0.017) 129.14ug/L

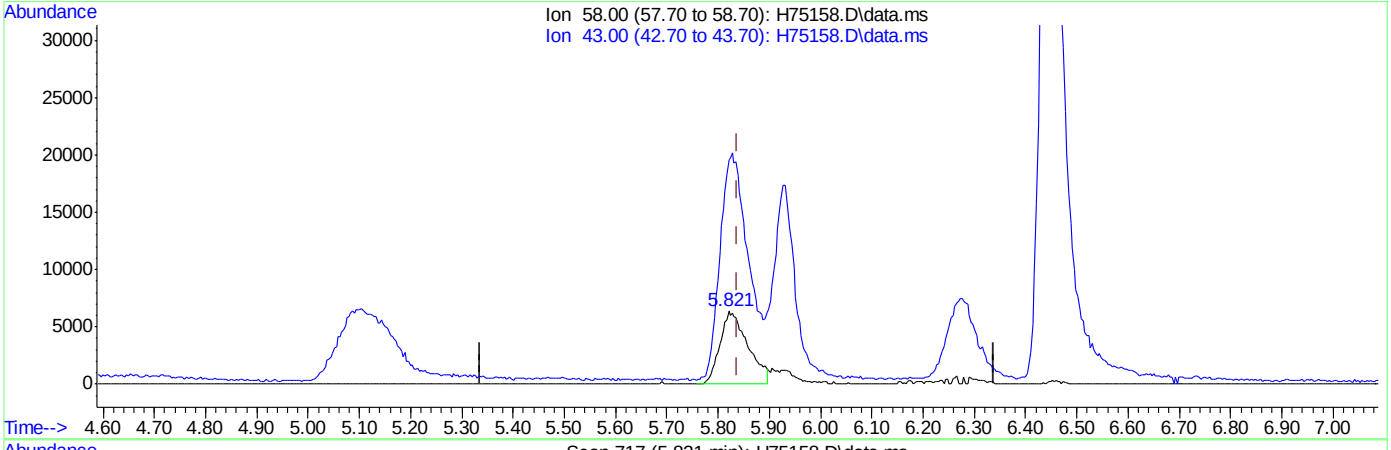
response 28555

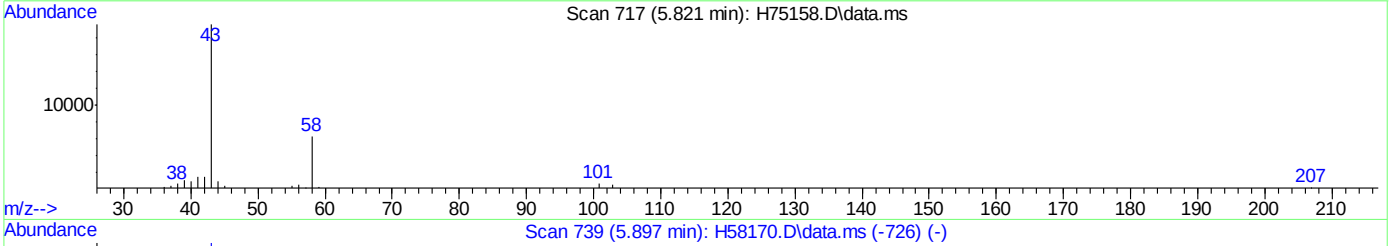
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	301.94
0.00	0.00	0.00
0.00	0.00	0.00

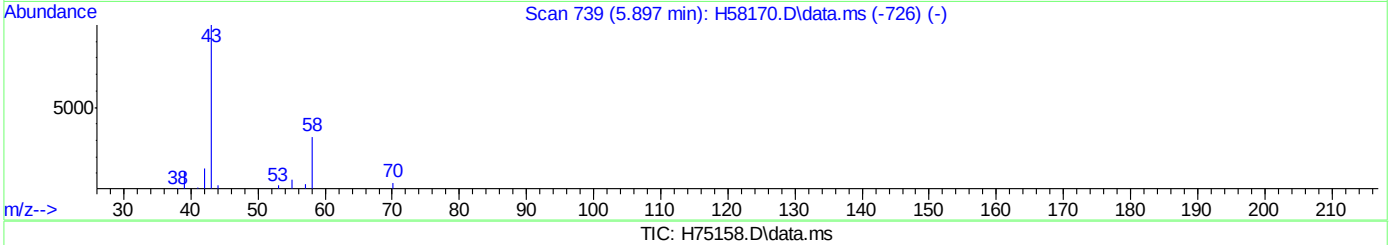
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(15) acetone (p)

5.821min (-0.017) 108.25ug/L m

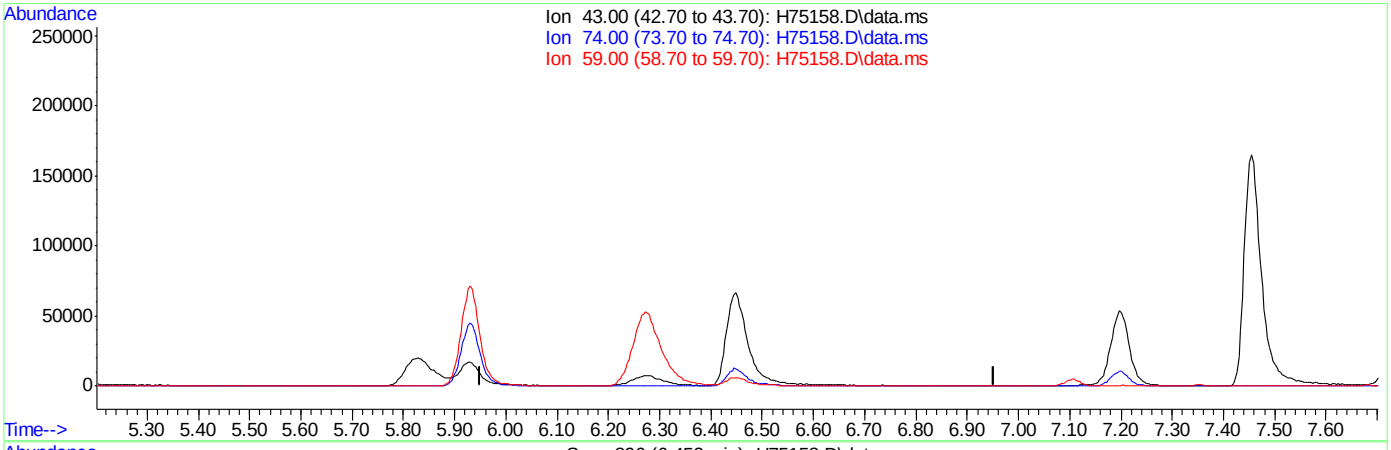
response 23936

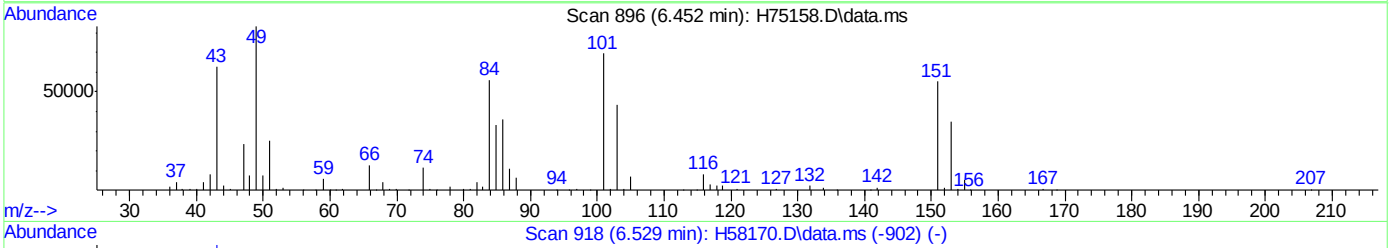
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	309.12
0.00	0.00	0.00
0.00	0.00	0.00

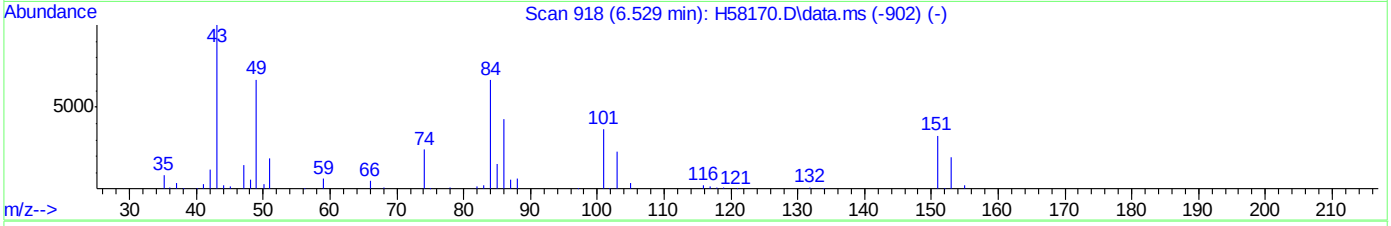
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(17) methyl acetate (p)

6.452min (-6.452) 0.00ug/L

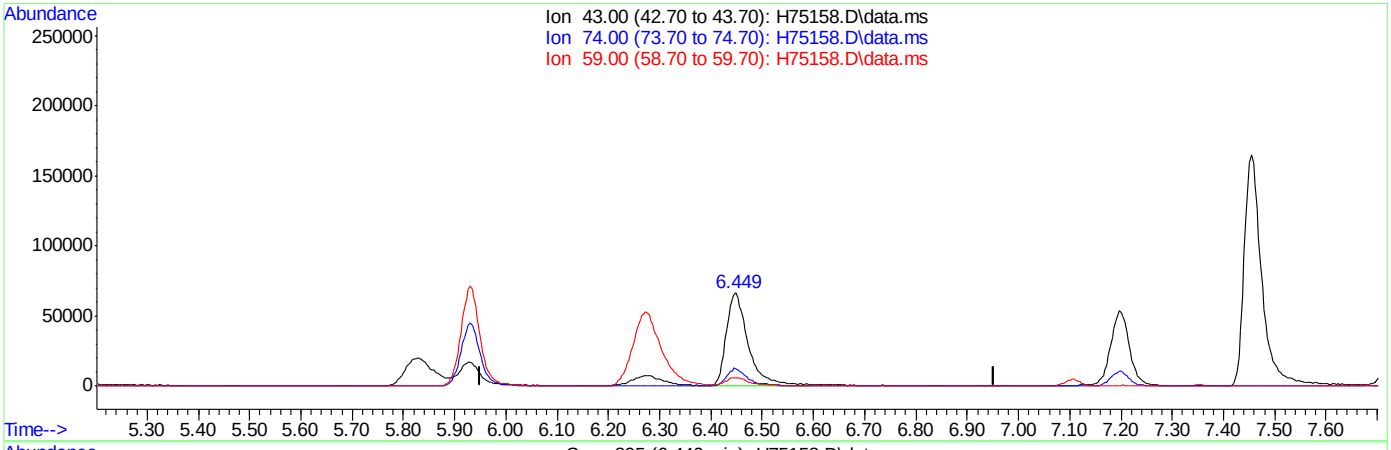
response 0

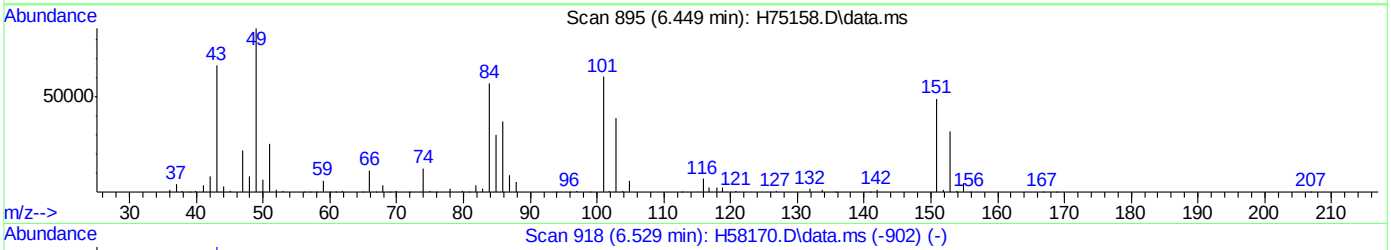
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

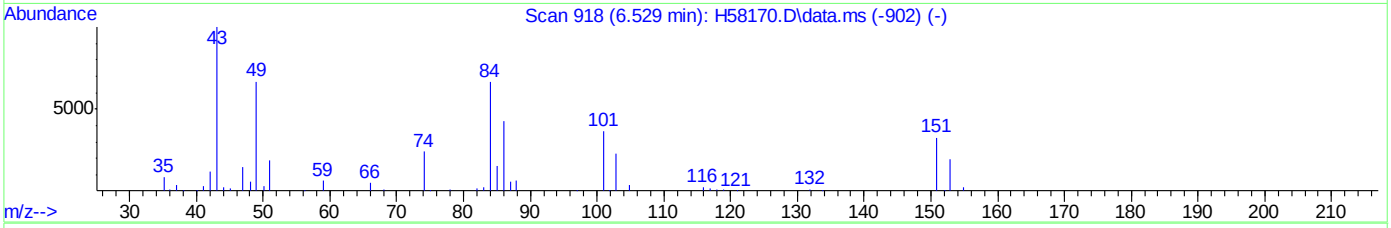
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(17) methyl acetate (p)

6.449min (-0.003) 90.79ug/L m

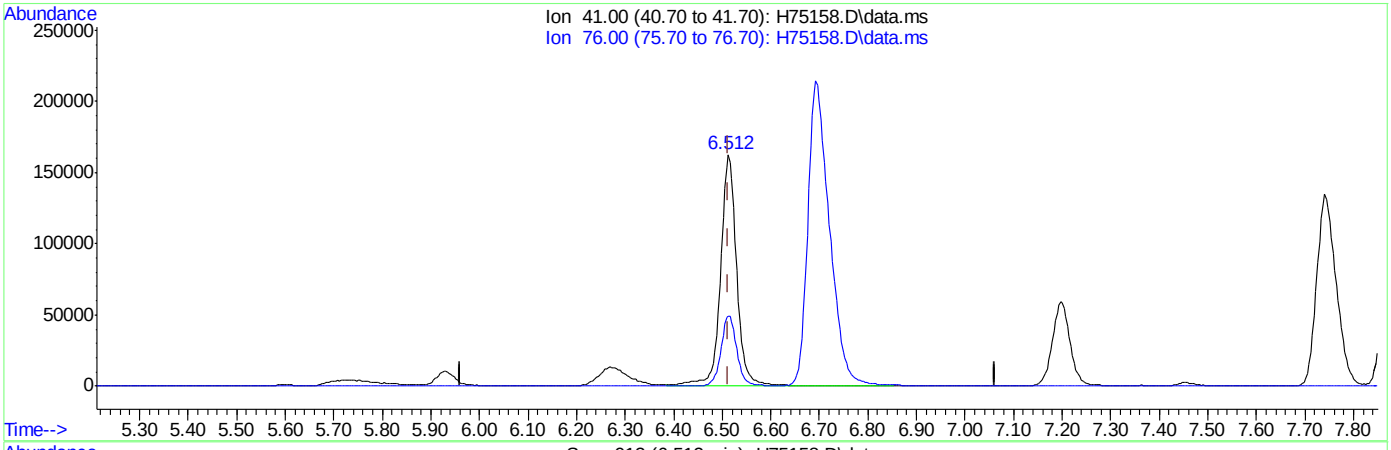
response 199288

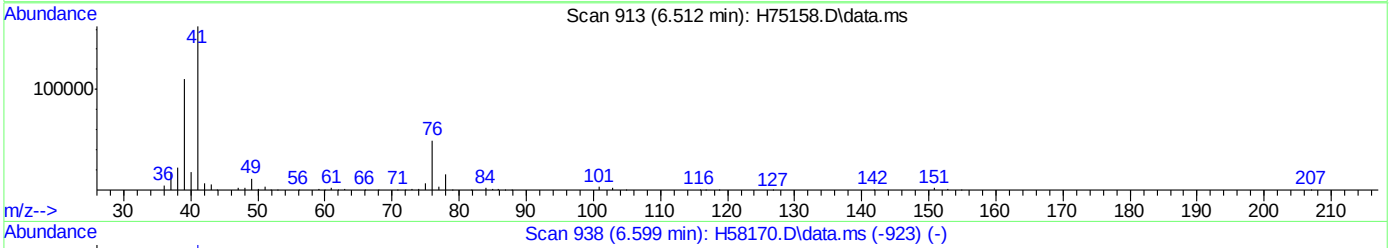
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	18.98
59.00	13.30	9.21
0.00	0.00	0.00

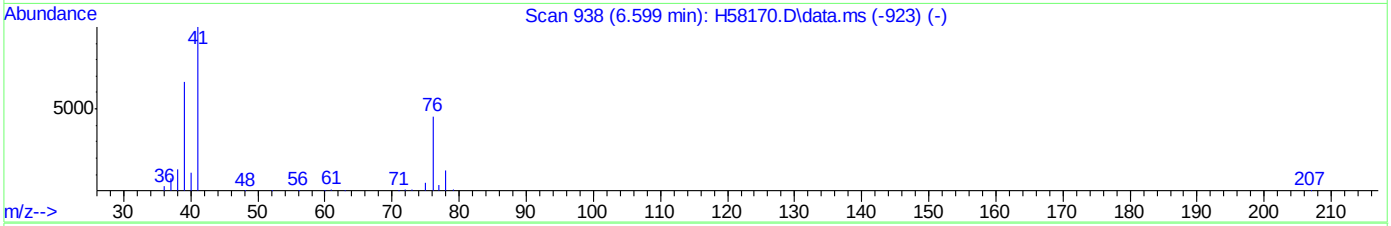
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(21) allyl chloride (p)

6.512min (+0.000) 97.69ug/L

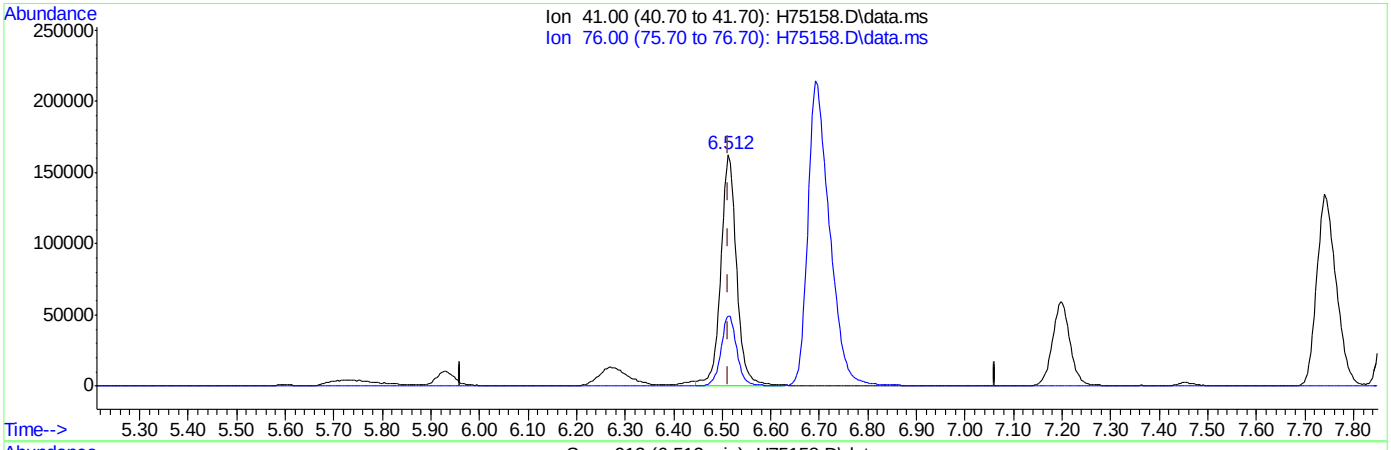
response 386862

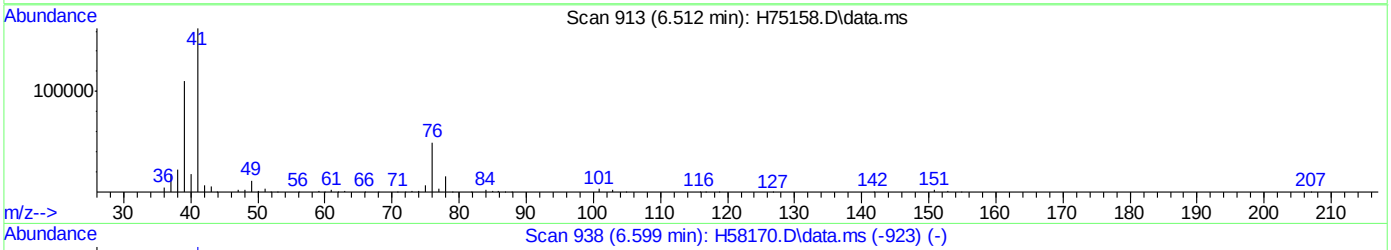
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

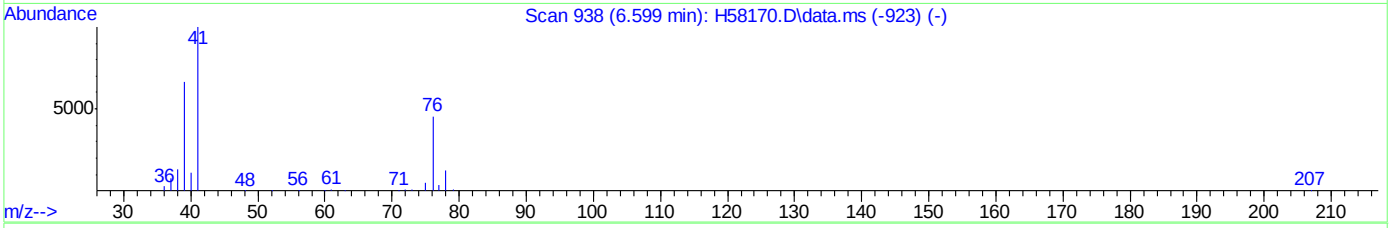
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(21) allyl chloride (p)

6.512min (+0.000) 93.76ug/L m

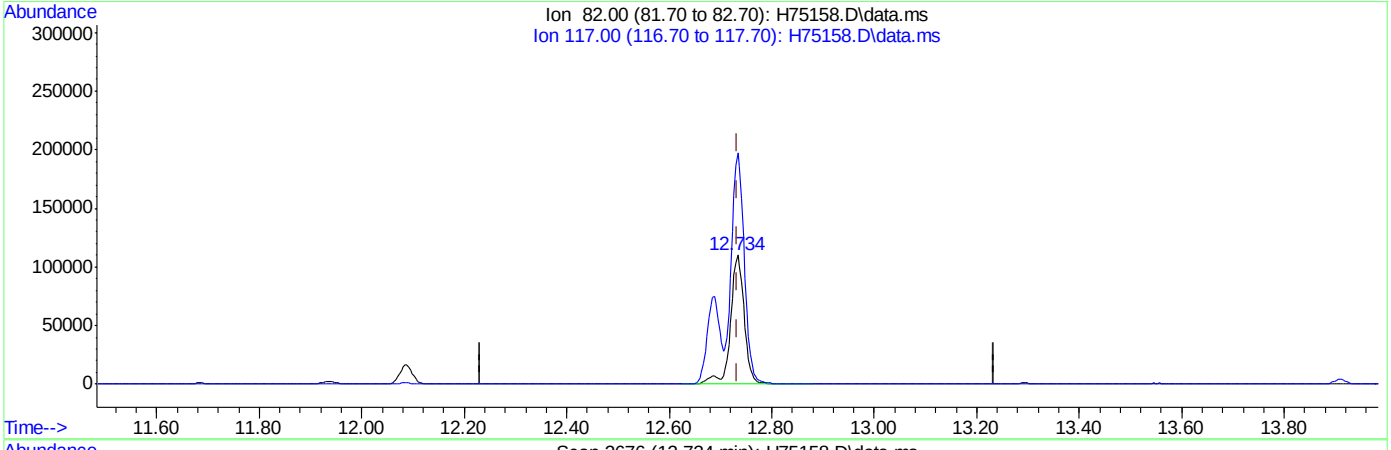
response 371300

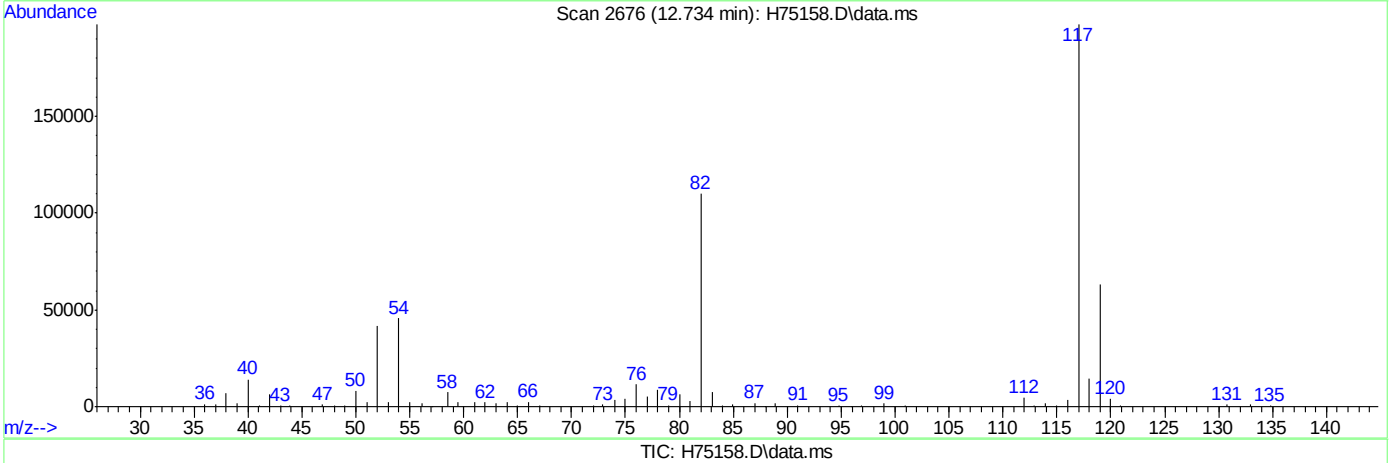
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:31:11 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration





TIC: H75158.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L

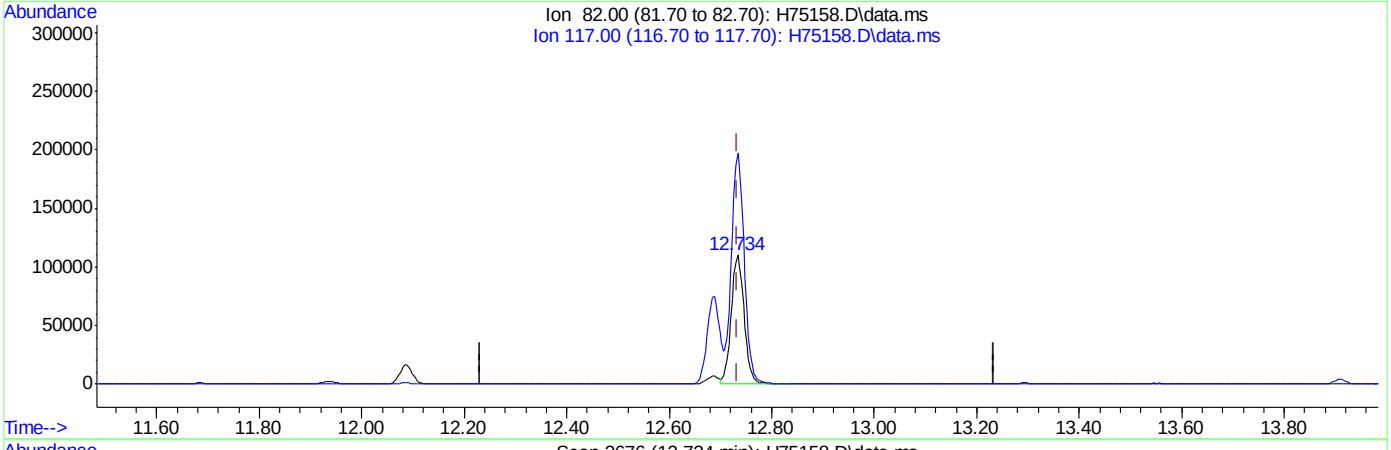
response 204192

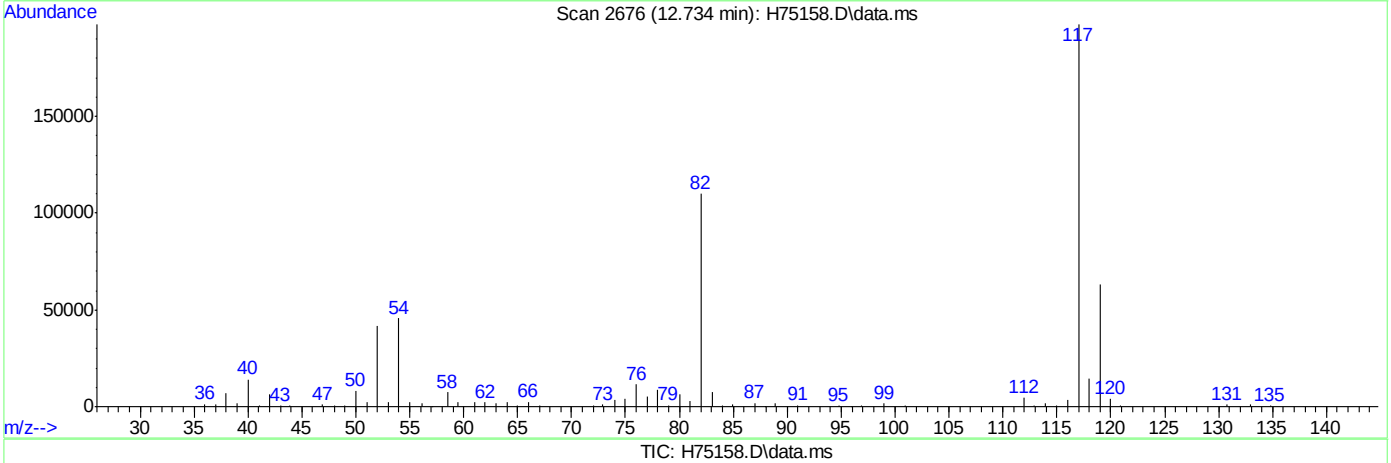
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	179.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:31:11 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration





TIC: H75158.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L m

response 192632

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	179.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.188	65	97497	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	231709	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	351657	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	202110m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	164052	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.252	113	112129	39.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 79.96%			
60) toluene-d8 (s)	11.277	98	422090	41.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 82.72%			
82) bromofluorobenzene (s)	13.962	95	177314	47.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.276	59	444860	2332.75	ug/L	89
3) Ethanol	5.098	45	604073m	28643.02	ug/L	
5) dichlorodifluoromethane	4.021	85	474406	181.94	ug/L	99
6) chloromethane	4.272	50	369845	145.92	ug/L	94
7) vinyl chloride	4.498	62	421527	177.09	ug/L	98
8) bromomethane	4.960	96	273259	172.94	ug/L	95
9) chloroethane	5.112	64	279583	189.62	ug/L	100
10) acetonitrile	5.599	41	5943	177.59	ug/L	78
11) trichlorofluoromethane	5.698	101	684268	195.54	ug/L	100
12) freon-113	6.463	101	447006	192.98	ug/L	93
13) acrolein	5.691	56	109301	1102.80	ug/L	92
14) 1,1-dichloroethene	6.273	96	396993	200.06	ug/L #	78
15) acetone	5.821	58	50192m	208.07	ug/L	
16) ethyl ether	5.931	59	392291	198.19	ug/L	87
17) methyl acetate	6.446	43	428240	185.19	ug/L	88
18) methylene chloride	6.453	84	469982	184.09	ug/L #	75
19) methyl tert butyl ether	7.197	73	1234223	200.87	ug/L	88
20) acrylonitrile	6.319	53	194199m	221.93	ug/L	
21) allyl chloride	6.513	41	778539m	185.50	ug/L	
22) trans-1,2-dichloroethene	7.106	96	429089	192.81	ug/L	84
23) iodomethane	6.365	142	699045	196.88	ug/L	89
24) carbon disulfide	6.696	76	1408977m	192.39	ug/L	
25) propionitrile	7.360	54	70826	248.69	ug/L	100
26) vinyl acetate	7.455	43	893420	208.58	ug/L	93
27) chloroprene	7.720	53	774152	202.58	ug/L	97
28) di-isopropyl ether	7.765	45	1590004	191.88	ug/L	90
29) methacrylonitrile	7.868	41	304027	192.28	ug/L	91
30) 2-butanone	7.758	72	60103	227.39	ug/L #	30
31) 1,1-dichloroethane	7.356	63	860375	187.47	ug/L	95
32) tert-butyl ethyl ether	8.161	59	1565907	209.01	ug/L	91
33) Hexane	7.741	41	771231	177.47	ug/L #	80
34) isobutyl alcohol	8.157	43	191524	788.61	ug/L	84
35) 2,2-dichloropropane	8.214	77	652594	194.38	ug/L	97
36) cis-1,2-dichloroethene	7.924	96	468478	191.06	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) ethyl acetate	8.157	43	191557	156.01 ug/L	98
38) bromochloromethane	8.090	128	225725	187.89 ug/L #	56
39) chloroform	8.129	83	821310	186.01 ug/L	97
41) 1,1,1-trichloroethane	8.877	97	693639	200.55 ug/L	95
43) cyclohexane	9.163	56	845593	203.88 ug/L #	80
44) carbon tetrachloride	9.241	117	612543	231.04 ug/L	96
45) 1,1-dichloropropene	9.053	75	622074	207.21 ug/L	94
46) benzene	9.272	78	1794888	200.92 ug/L	99
47) tetrahydrofuran	8.454	42	144382	191.91 ug/L	94
48) 1,2-dichloroethane	8.775	62	634820	188.09 ug/L	100
49) tert-amyl methyl ether	9.403	73	1288918	218.20 ug/L	93
50) heptane	9.763	43	624524	196.26 ug/L	93
51) trichloroethene	9.897	95	485415	209.83 ug/L	83
52) 1,2-dichloropropane	9.862	63	495241	200.00 ug/L	95
53) dibromomethane	9.833	93	302152	204.69 ug/L	97
54) bromodichloromethane	9.950	83	625428	214.69 ug/L	96
55) methylcyclohexane	10.416	83	783086	208.67 ug/L	87
56) 2-chloroethyl vinyl ether	10.327	63	332098	212.91 ug/L	89
57) methyl methacrylate	10.052	69	336241	225.70 ug/L	90
58) 1,4-dioxane	10.056	88	23991	1373.27 ug/L	88
59) cis-1,3-dichloropropene	10.571	75	742280	231.13 ug/L	91
61) 4-methyl-2-pentanone	10.663	43	496857	197.96 ug/L	95
62) toluene	11.347	92	1112500	205.04 ug/L	99
63) trans-1,3-dichloropropene	10.994	75	714829	252.70 ug/L	99
64) 1,1,2-trichloroethane	11.164	83	362121	199.83 ug/L	92
65) ethyl methacrylate	11.375	69	652290	230.61 ug/L	85
67) tetrachloroethene	12.088	166	526755	225.65 ug/L	91
68) 1,3-dichloropropane	11.397	76	712770	197.12 ug/L	97
69) dibromochloromethane	11.686	129	470085	259.53 ug/L	100
70) 1,2-dibromoethane	11.937	107	443370	213.15 ug/L	93
71) 2-hexanone	11.524	43	350635	205.73 ug/L	98
72) chlorobenzene	12.769	112	1284333	201.94 ug/L	91
73) 1,1,1,2-tetrachloroethane	12.688	131	427748	224.53 ug/L	96
74) ethylbenzene	12.946	91	2218323	220.96 ug/L	98
75) m,p-xylene	13.133	106	1767021	472.85 ug/L	98
76) o-xylene	13.546	106	869908	225.91 ug/L	98
77) styrene	13.472	104	1418704	221.38 ug/L	98
78) bromoform	13.292	173	314649	286.50 ug/L	98
79) trans-1,4-dichloro-2-b...	13.697	53	162123	268.59 ug/L	87
81) isopropylbenzene	13.909	105	2109257	234.06 ug/L	99
83) bromobenzene	14.191	156	570805	230.66 ug/L	89
84) 1,1,2,2-tetrachloroethane	13.549	83	505726	224.40 ug/L	97
85) 1,2,3-trichloropropane	13.697	75	591215	241.17 ug/L	97
86) n-propylbenzene	14.354	91	2486858	234.57 ug/L	95
87) 2-chlorotoluene	14.470	91	1411613	219.23 ug/L	91
88) 4-chlorotoluene	14.548	91	1519060	225.16 ug/L	92
89) 1,3,5-trimethylbenzene	14.636	105	1657334	231.37 ug/L	99
90) tert-butylbenzene	14.936	91	947994	214.26 ug/L	89
91) 1,2,4-trimethylbenzene	15.045	105	1626939	224.15 ug/L	100
92) sec-butylbenzene	15.162	105	1981143	208.27 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.261	146	919167	209.82	ug/L	99
94) p-isopropyltoluene	15.338	119	1676084	207.36	ug/L	98
95) 1,4-dichlorobenzene	15.328	146	973561	199.45	ug/L	100
96) 1,2-dichlorobenzene	15.695	146	753108	182.48	ug/L	99
97) n-butylbenzene	15.755	91	1415167	193.92	ug/L	93
98) 1,2-dibromo-3-chloropr...	16.175	75	37557	156.73	ug/L	91
99) 1,3,5-trichlorobenzene	16.993	180	378596	145.39	ug/L #	95
100) 1,2,4-trichlorobenzene	17.547	180	183169	131.01	ug/L	98
101) hexachlorobutadiene	17.851	225	105868	102.96	ug/L	96
102) naphthalene	17.823	128	253734	117.91	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	183169	131.01	ug/L	99
104) 2-Methylnaphthalene	19.294	142	5813	97.57	ug/L	95
105) 1-Methylnaphthalene	19.545	142	4200	104.60	ug/L #	8

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

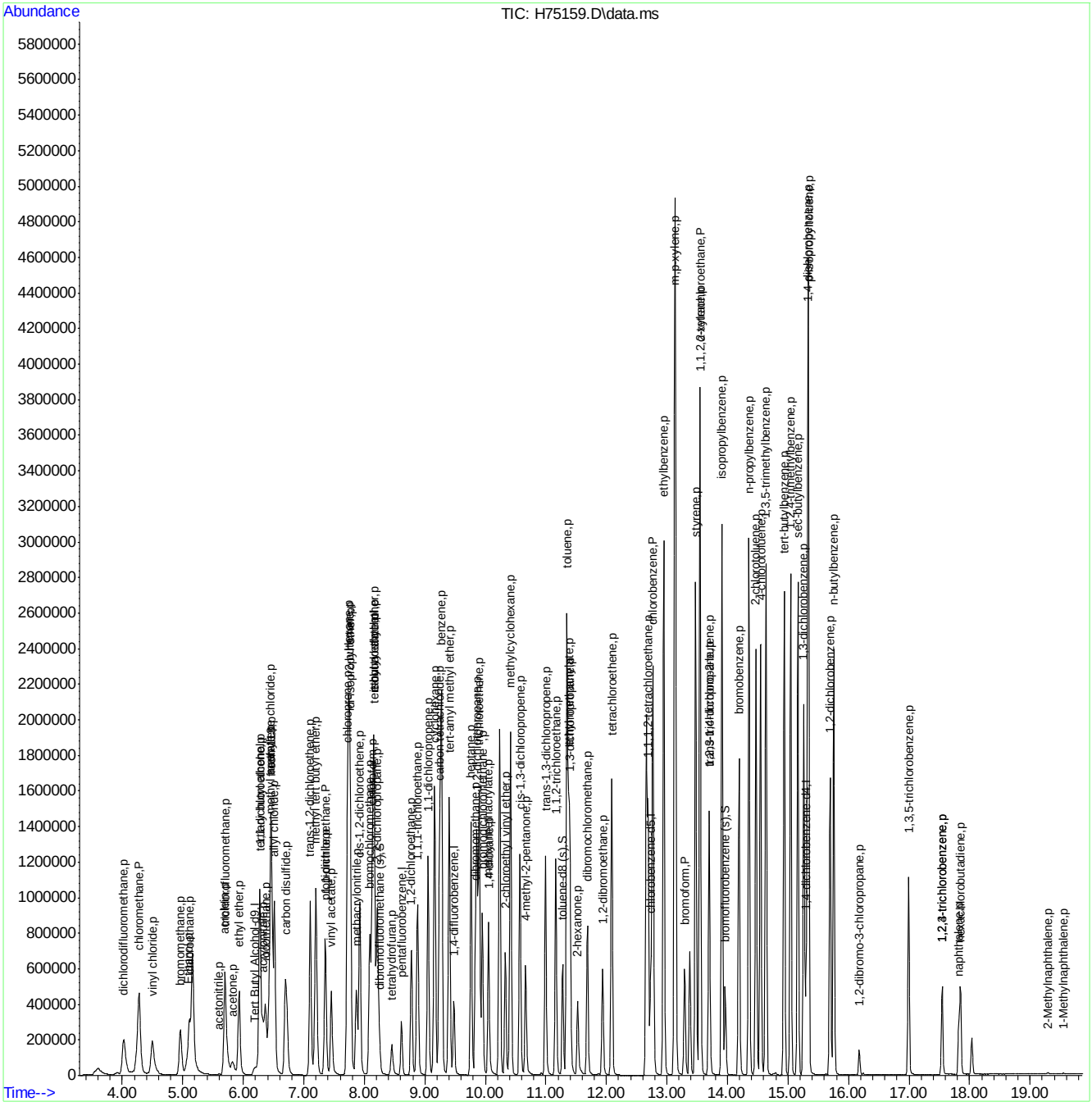
7.6.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

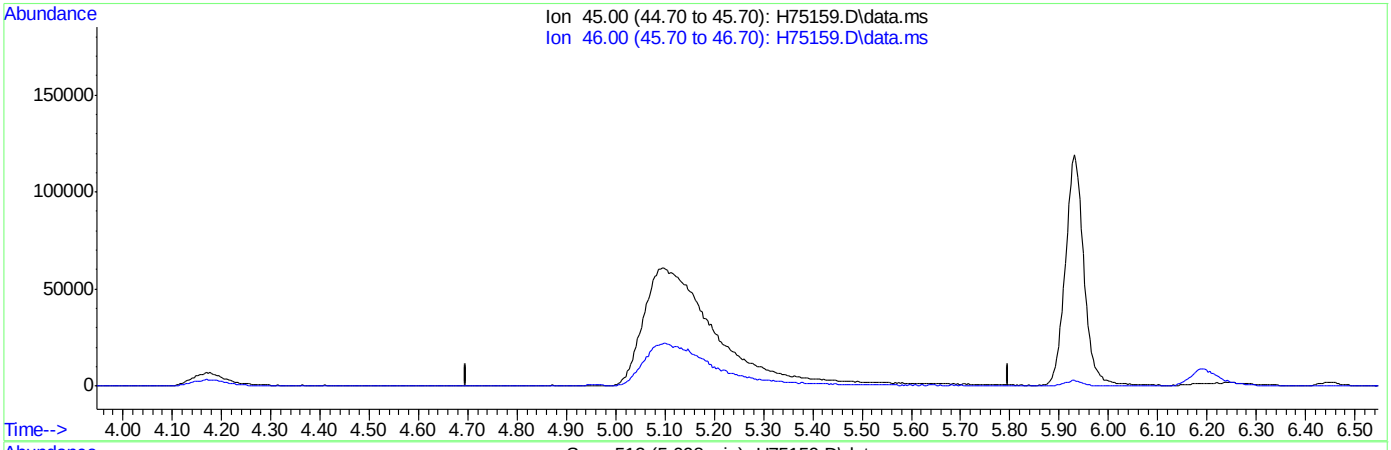


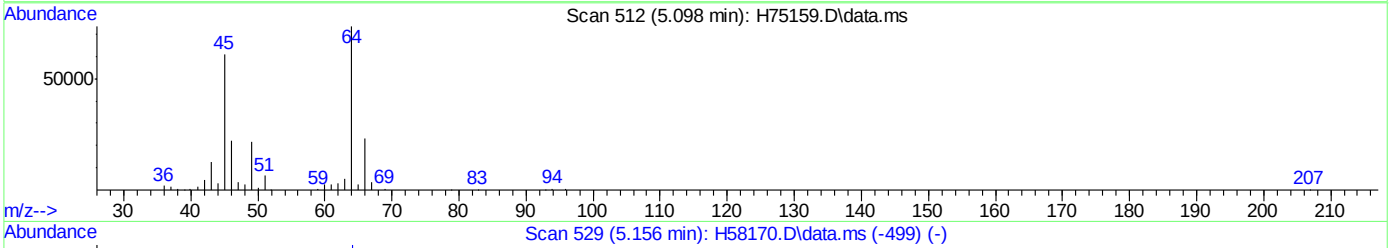
H150925W.M Mon Sep 28 13:34:46 2015 Page: 4

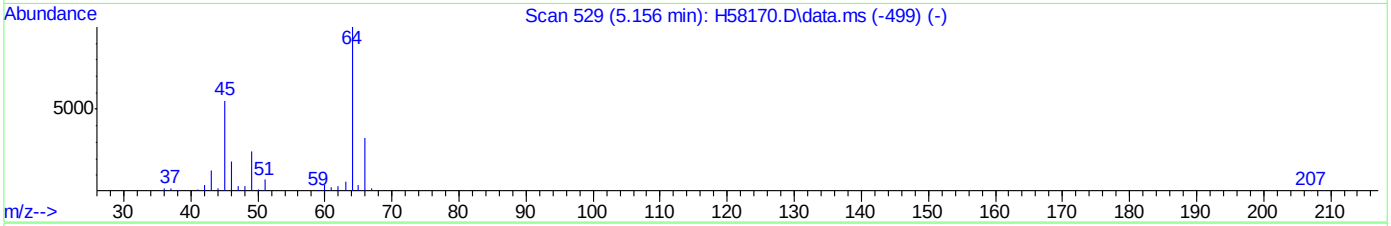
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(3) Ethanol (p)

5.097min (-5.097) 0.00ug/L

response 0

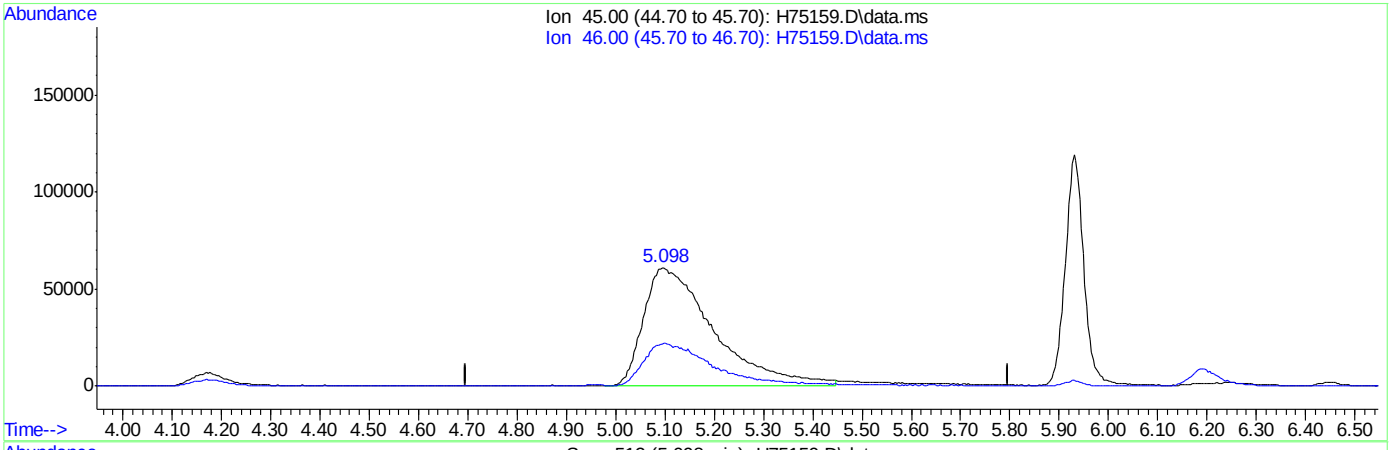
Ion	Exp%	Act%
45.00	100	0.00
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

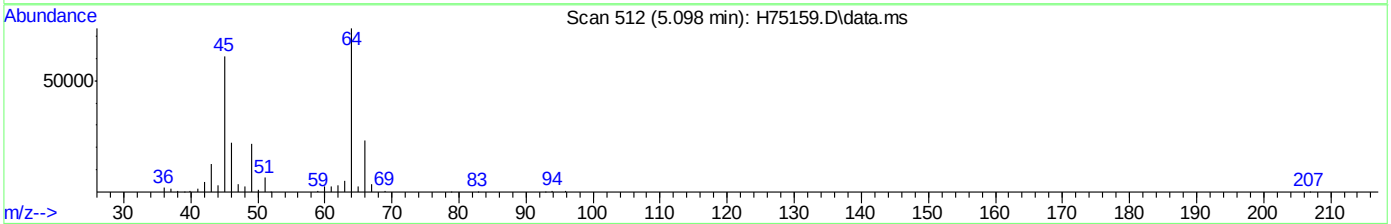
ACCUTEST LABORATORIES MC41696

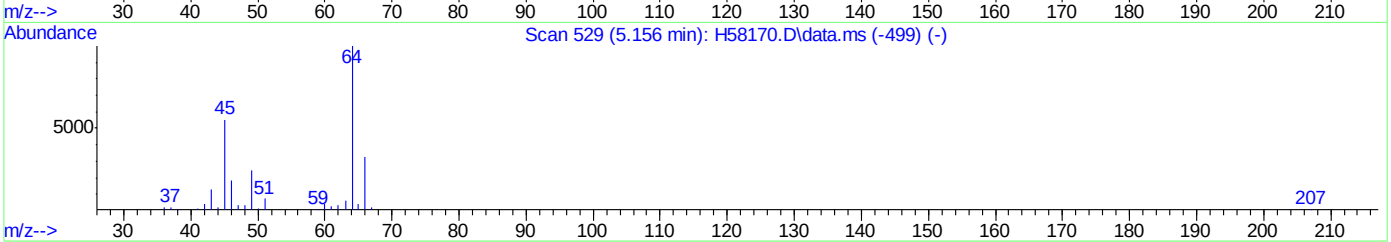
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(3) Ethanol (p)

5.098min (+0.000) 28643.02ug/L m

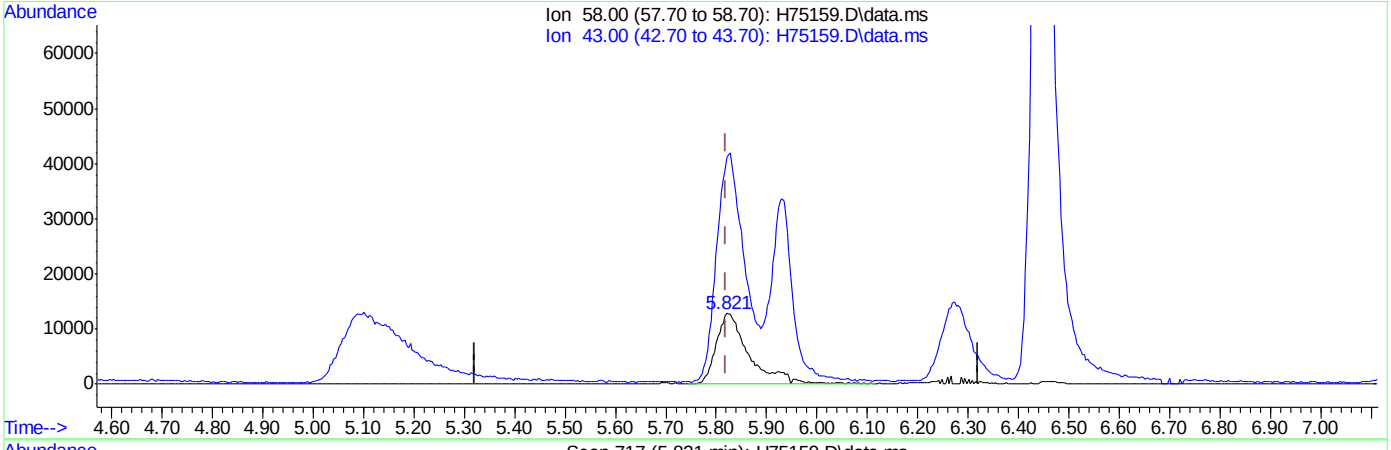
response 604073

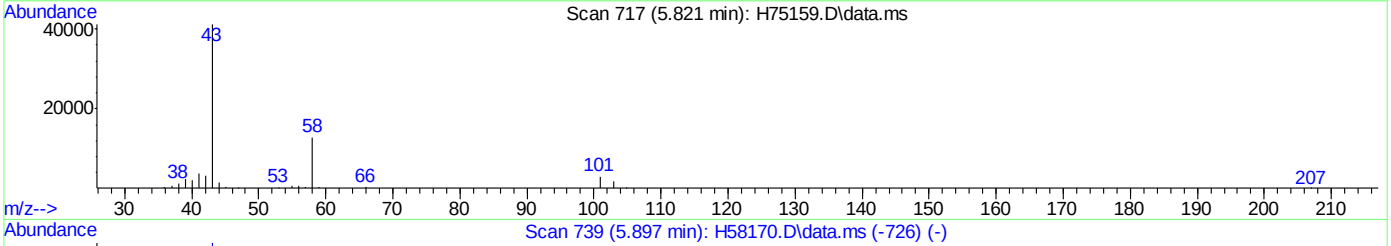
Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

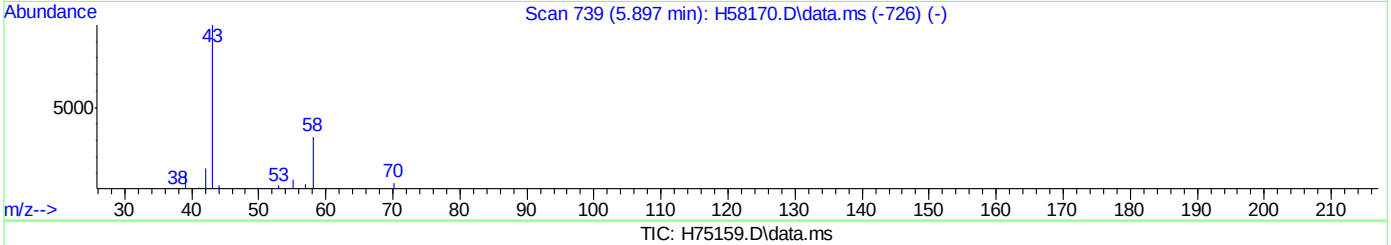
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(15) acetone (p)

5.821min (+0.000) 244.20ug/L

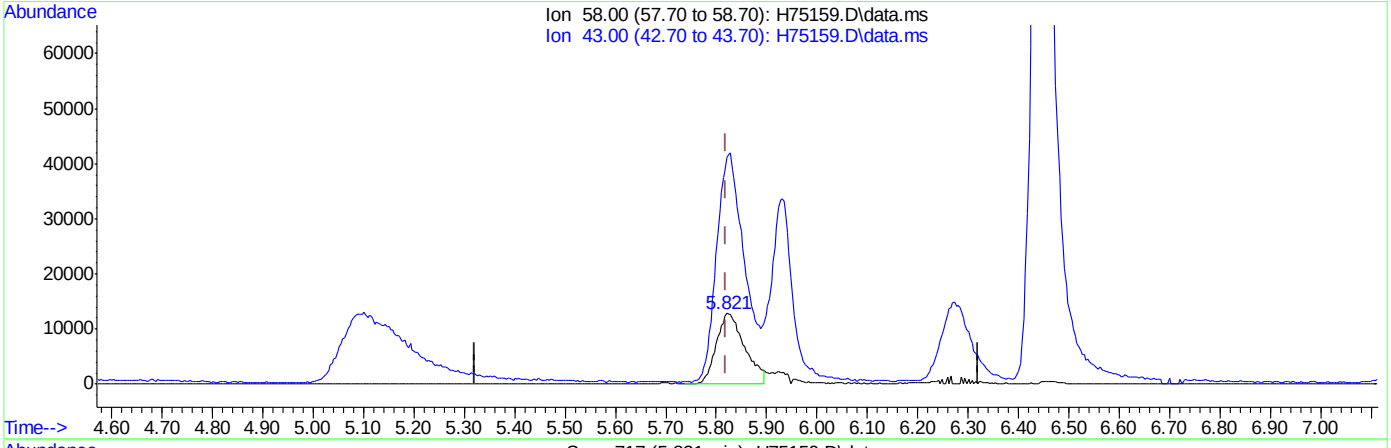
response 58908

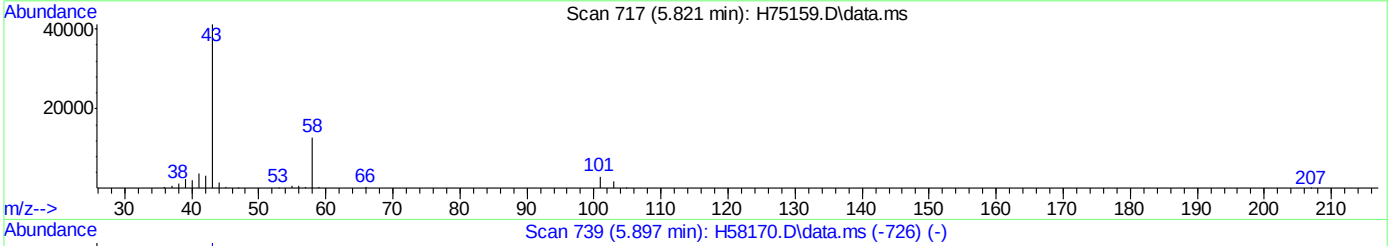
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	316.51
0.00	0.00	0.00
0.00	0.00	0.00

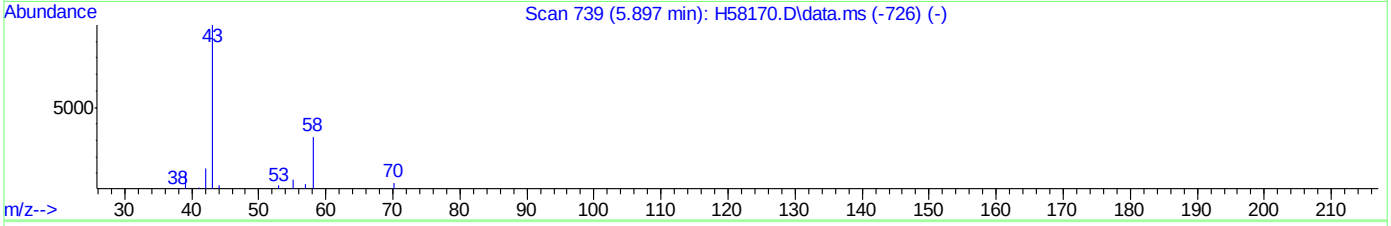
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(15) acetone (p)

5.821min (+0.000) 208.07ug/L m

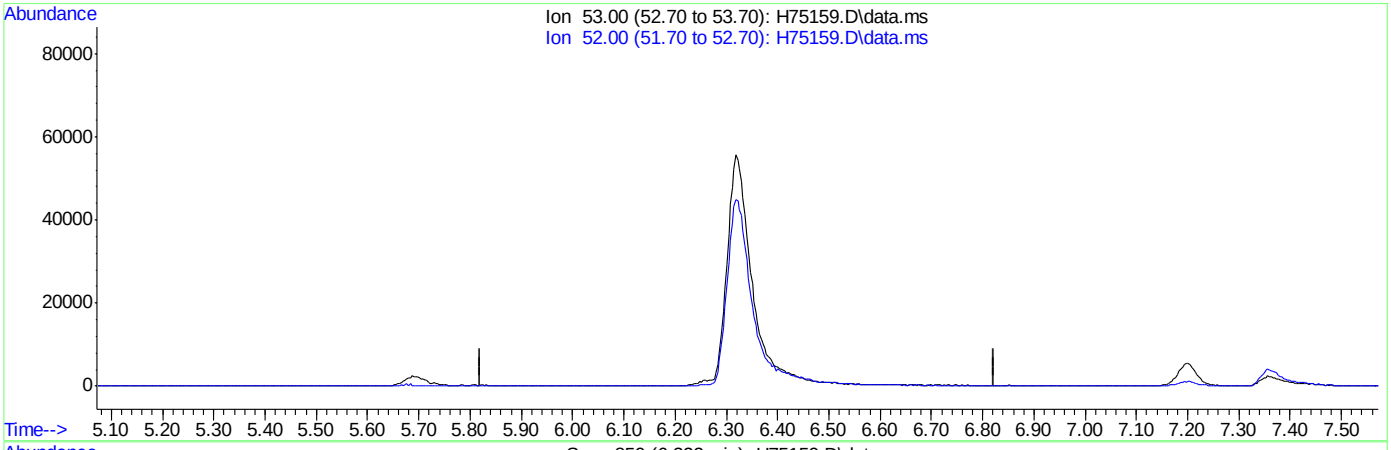
response 50192

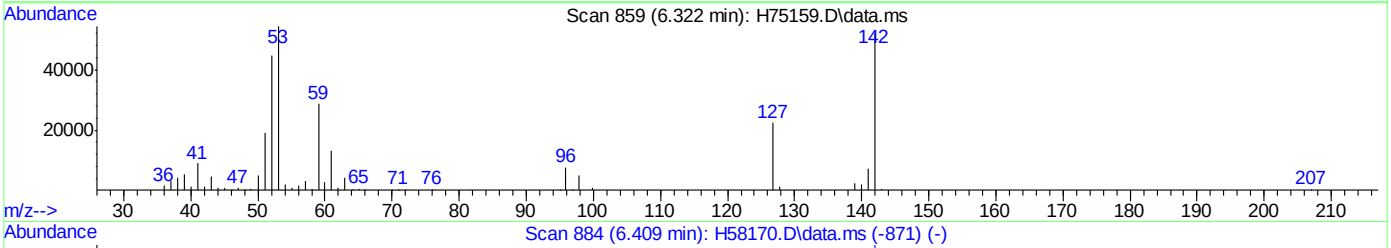
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.60
0.00	0.00	0.00
0.00	0.00	0.00

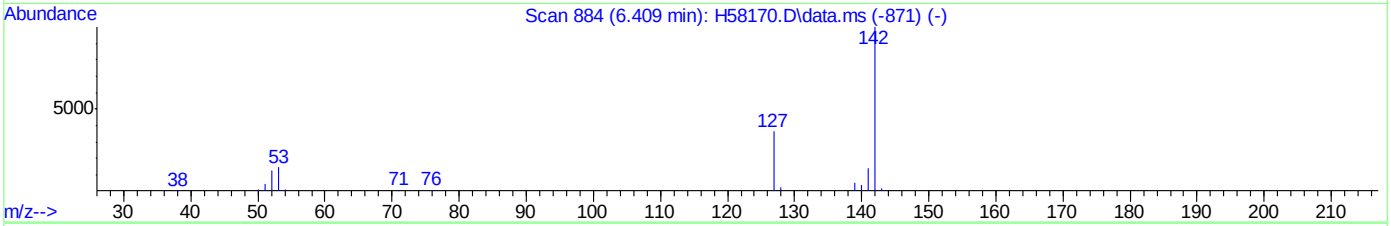
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(20) acrylonitrile (p)

6.322min (-6.322) 0.00ug/L

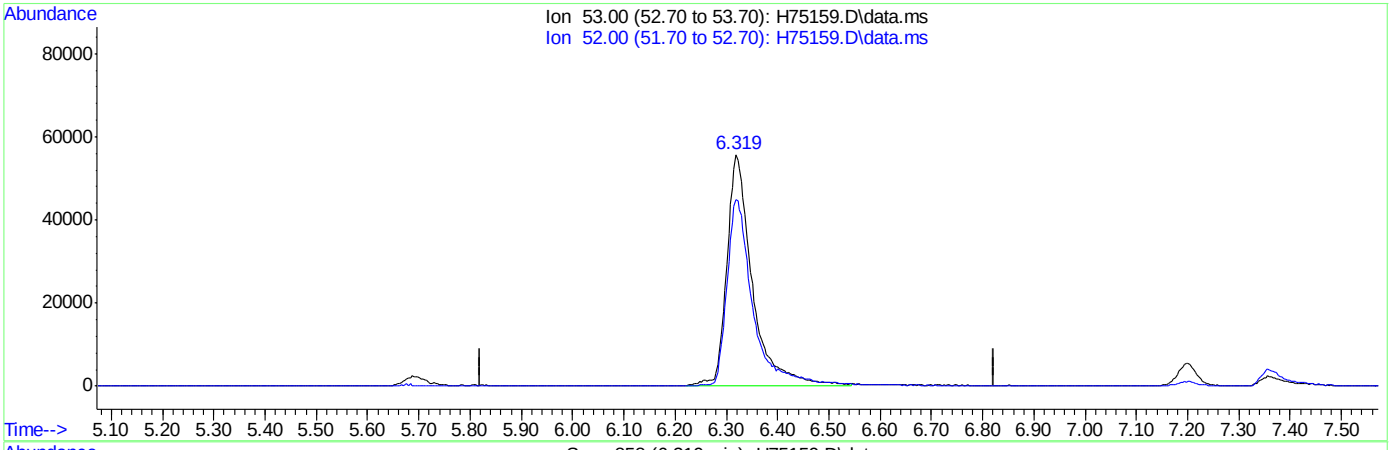
response 0

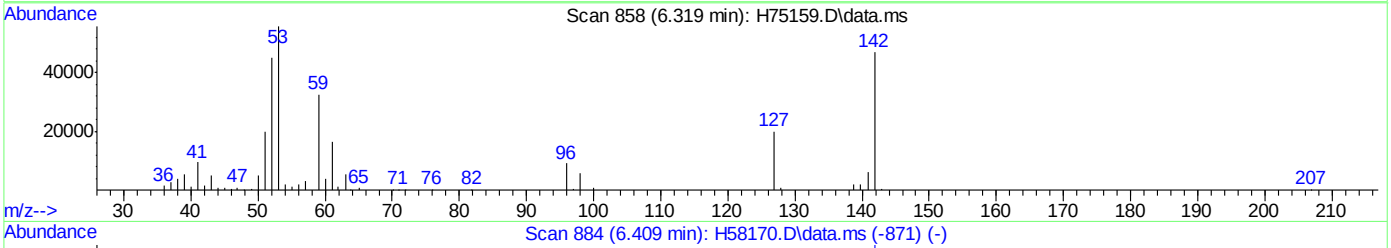
Ion	Exp%	Act%
53.00	100	0.00
52.00	84.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

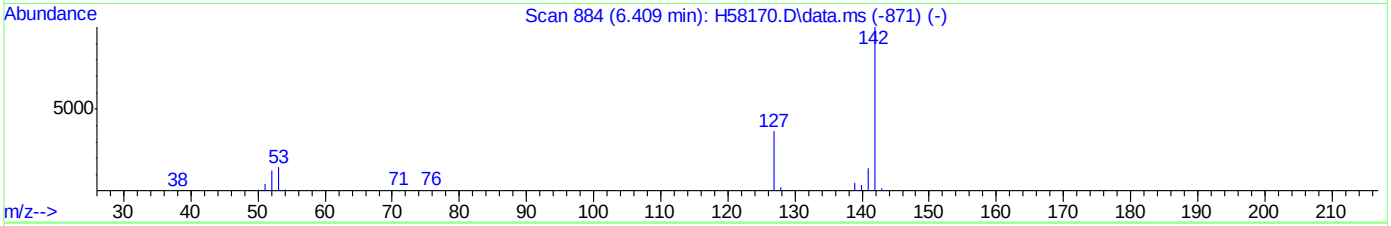
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(20) acrylonitrile (p)

6.319min (-0.003) 221.93ug/L m

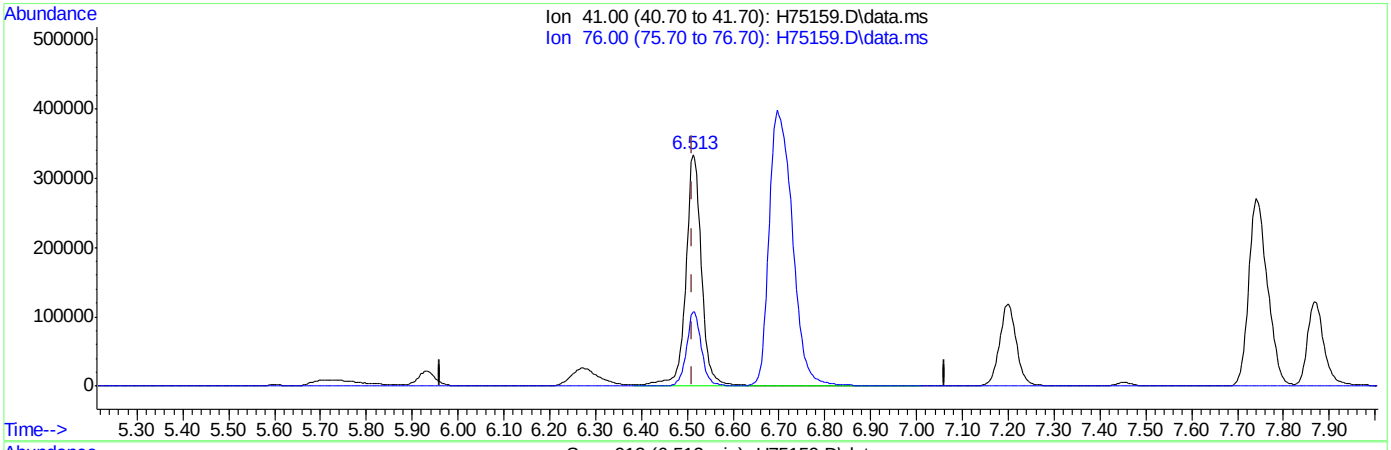
response 194199

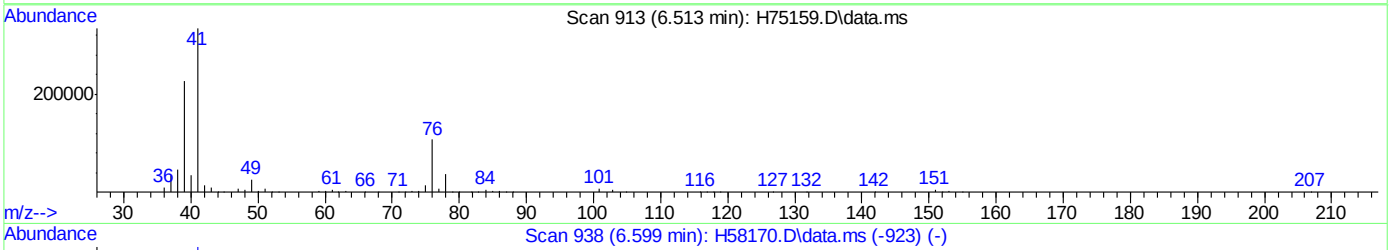
Ion	Exp%	Act%
53.00	100	100
52.00	84.80	80.67
0.00	0.00	0.00
0.00	0.00	0.00

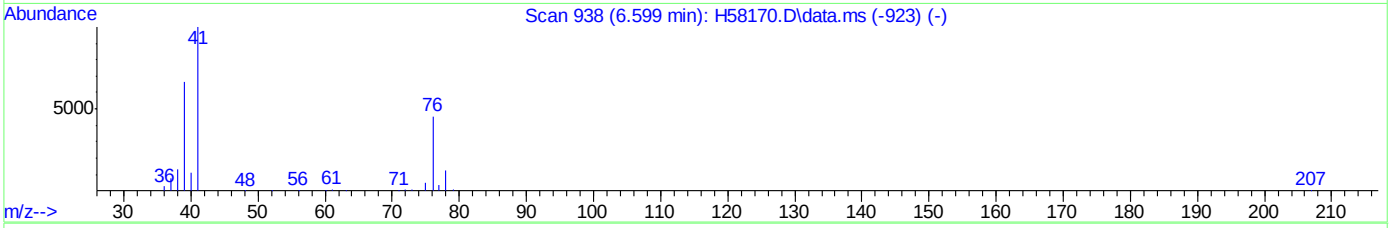
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(21) allyl chloride (p)

6.513min (+0.000) 189.80ug/L

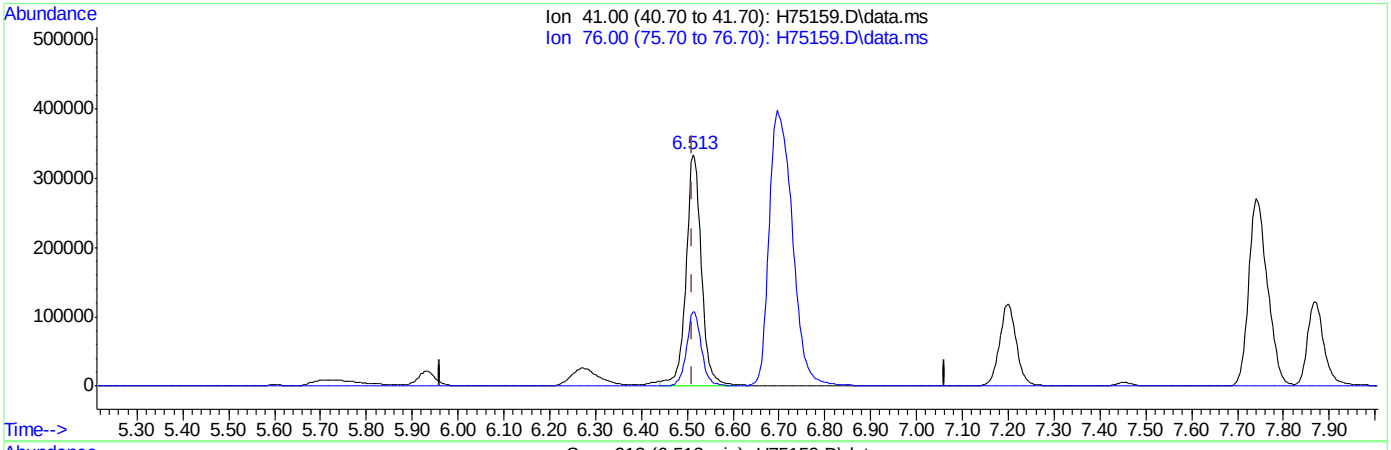
response 796568

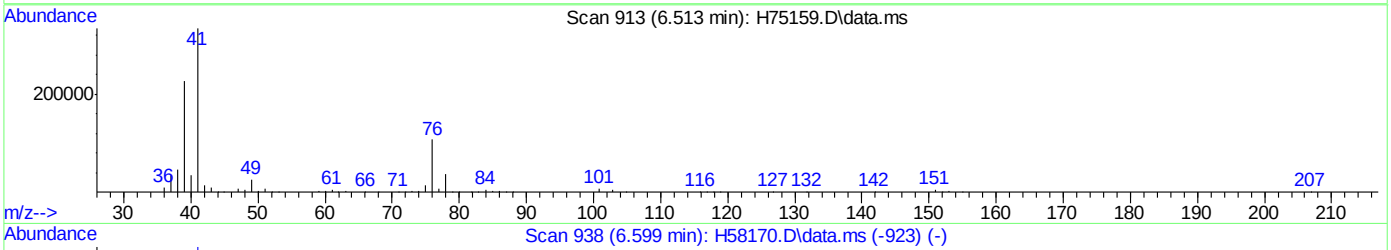
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	32.15
0.00	0.00	0.00
0.00	0.00	0.00

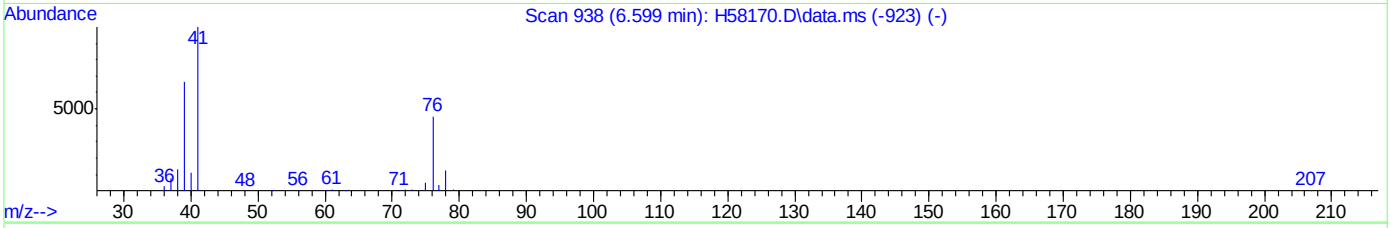
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(21) allyl chloride (p)

6.513min (+0.000) 185.50ug/L m

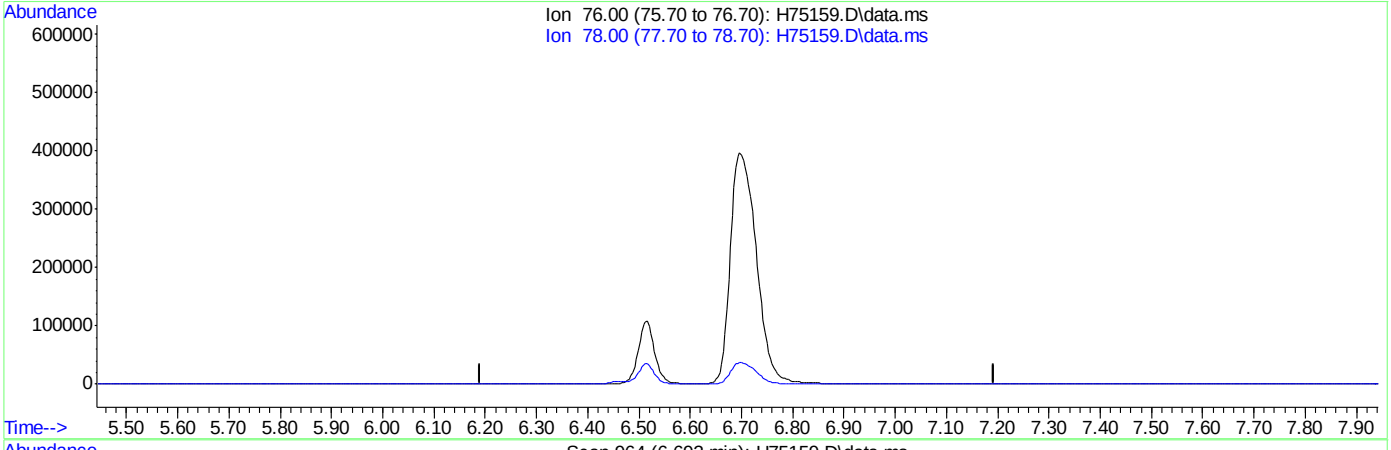
response 778539

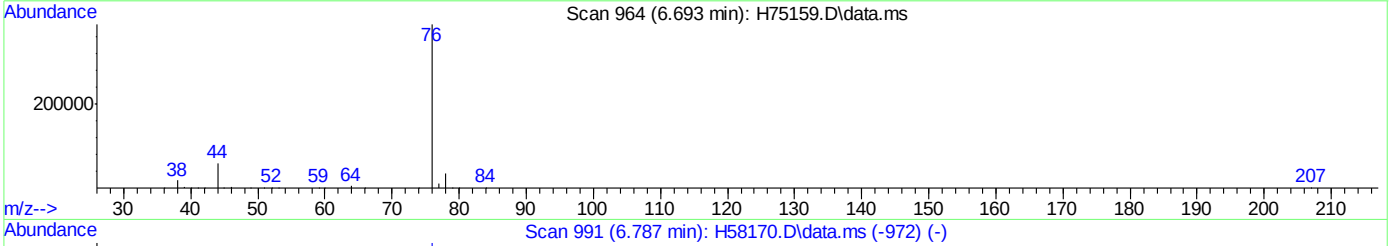
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	32.14
0.00	0.00	0.00
0.00	0.00	0.00

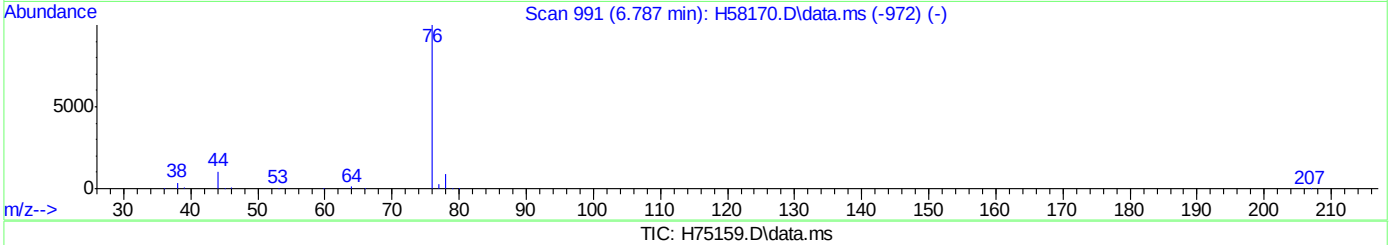
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(24) carbon disulfide (p)

6.692min (-6.692) 0.00ug/L

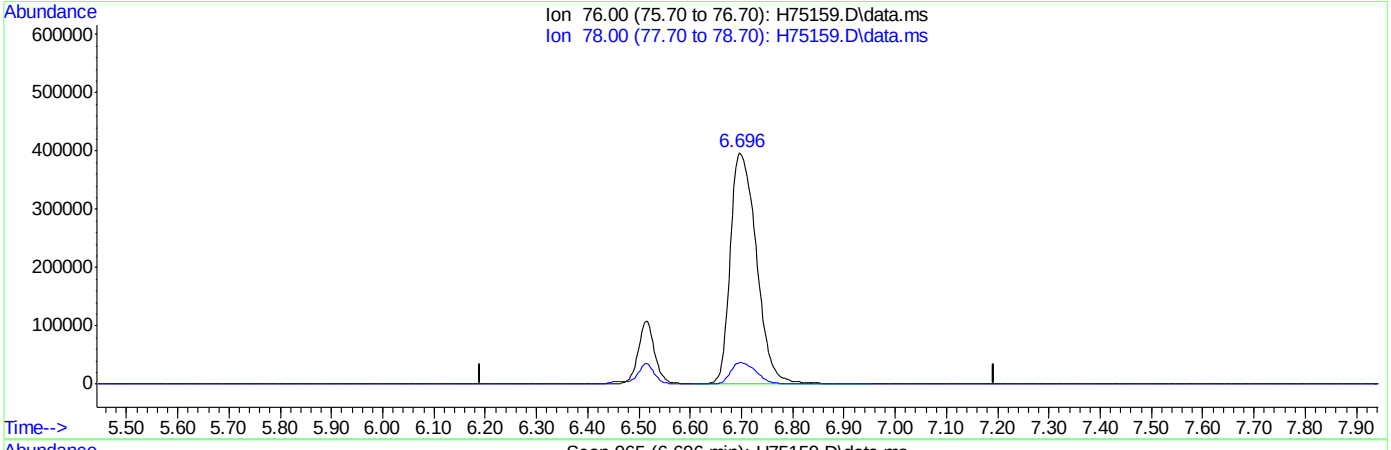
response 0

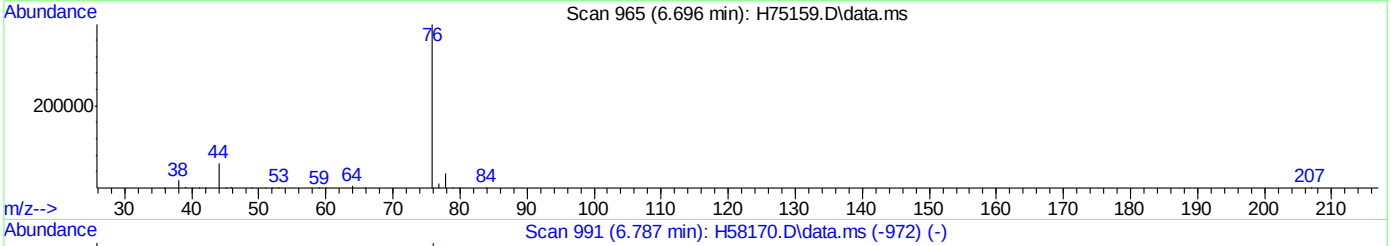
Ion	Exp%	Act%
76.00	100	0.00
78.00	10.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

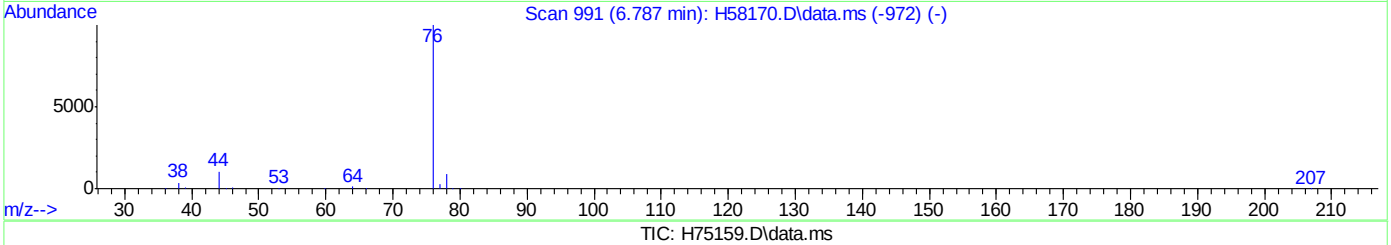
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(24) carbon disulfide (p)

6.696min (+0.004) 192.39ug/L m

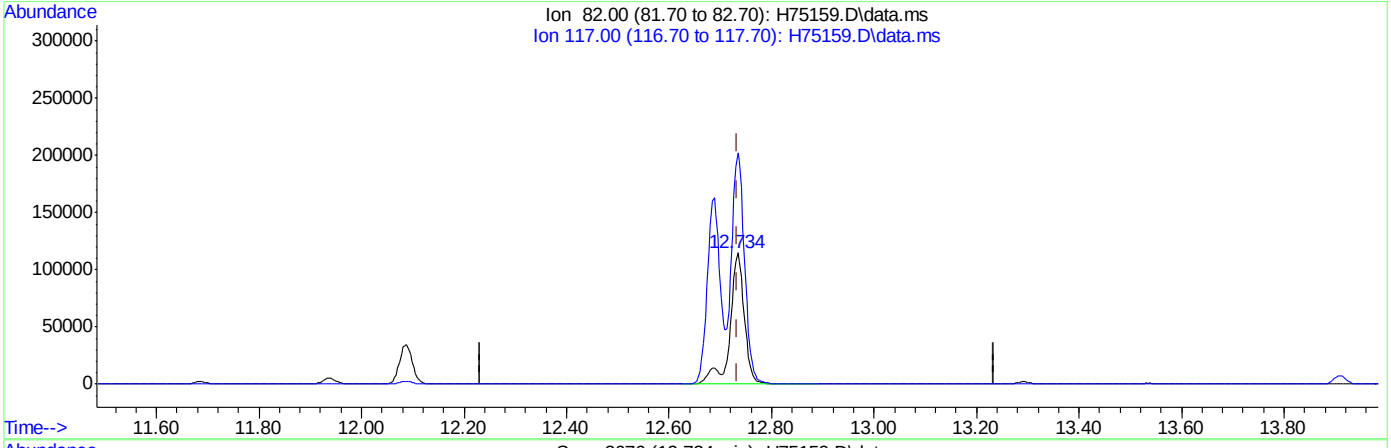
response 1408977

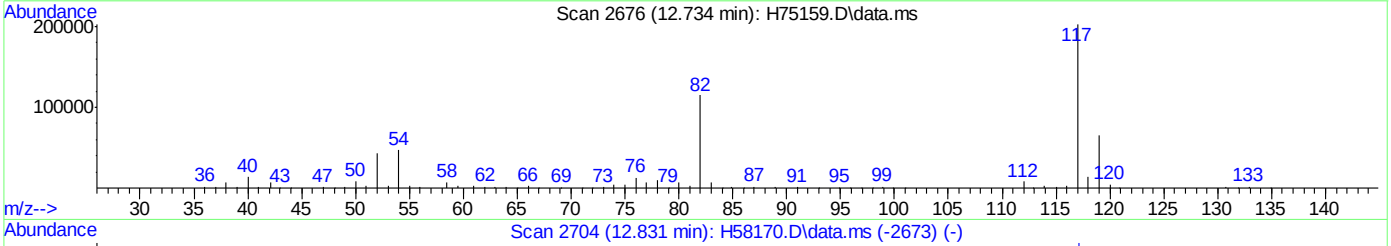
Ion	Exp%	Act%
76.00	100	100
78.00	10.10	9.21
0.00	0.00	0.00
0.00	0.00	0.00

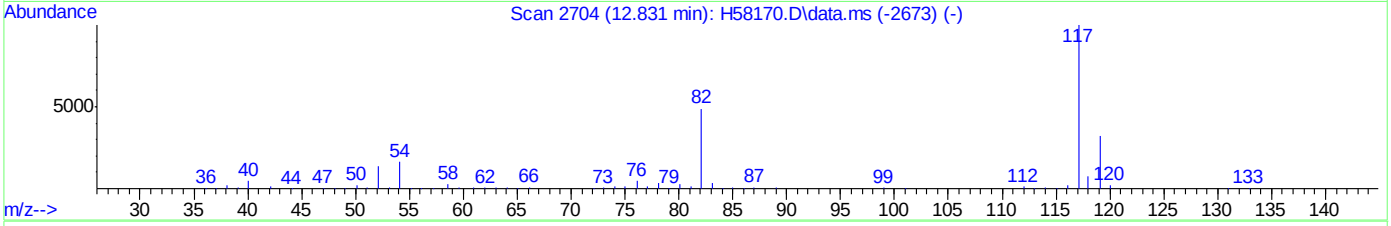
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L

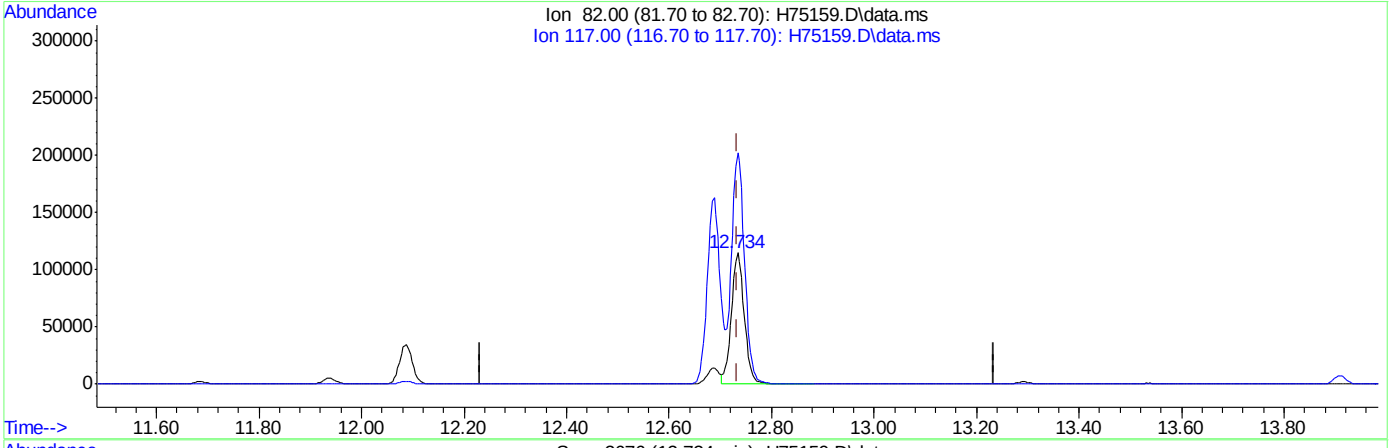
response 226696

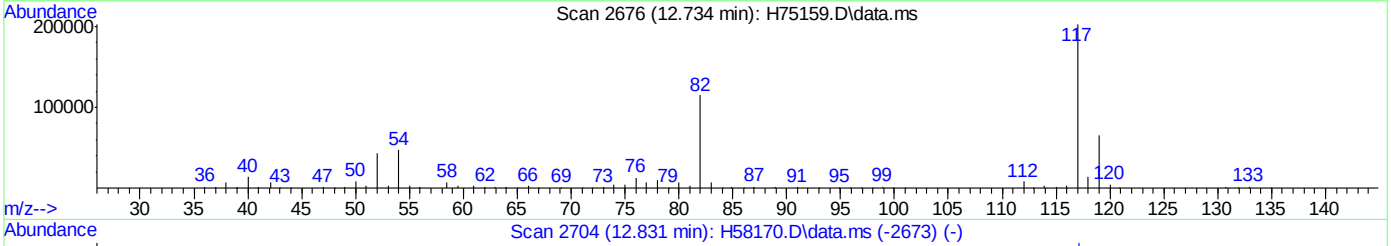
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	176.45
0.00	0.00	0.00
0.00	0.00	0.00

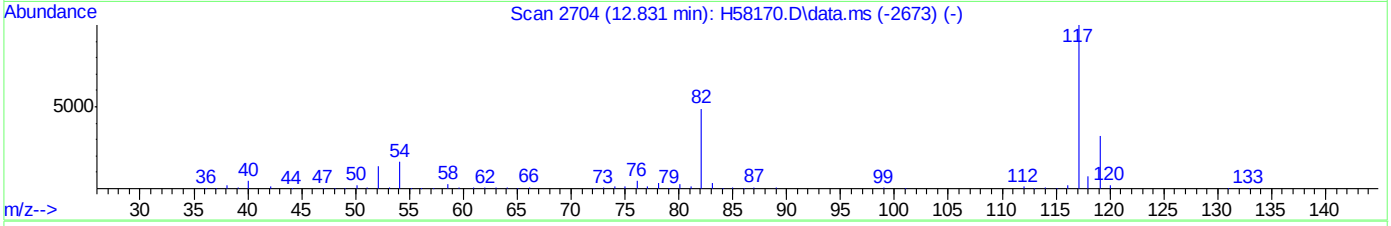
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L m

response 202110

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	176.45
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.197	65	105740	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	244038	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	373811	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	210669m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.301	152	167500	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.247	113	119768	41.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 82.94%			
60) toluene-d8 (s)	11.275	98	444665	41.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.60%			
82) bromofluorobenzene (s)	13.964	95	188820	49.70	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.40%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.271	59	1008842	4764.52	ug/L	88
3) Ethanol	5.096	45	1374702	56607.42	ug/L	98
5) dichlorodifluoromethane	4.020	85	1058539	390.49	ug/L	98
6) chloromethane	4.267	50	721033	280.96	ug/L	96
7) vinyl chloride	4.493	62	823827	333.40	ug/L	99
8) bromomethane	4.962	96	591523	362.45	ug/L	97
9) chloroethane	5.110	64	656822	426.13	ug/L	98
10) acetonitrile	5.594	41	9439	275.53	ug/L	91
11) trichlorofluoromethane	5.696	101	1569248	426.98	ug/L	99
12) freon-113	6.458	101	953789	393.27	ug/L	95
13) acrolein	5.685	56	258426	2433.97	ug/L	92
14) 1,1-dichloroethene	6.268	96	857729	410.38	ug/L #	78
15) acetone	5.819	58	112785m	440.96	ug/L	
16) ethyl ether	5.929	59	862611	414.41	ug/L	86
17) methyl acetate	6.444	43	901180	374.65	ug/L	91
18) methylene chloride	6.451	84	1041023	391.61	ug/L	80
19) methyl tert butyl ether	7.196	73	2738205	422.91	ug/L	88
20) acrylonitrile	6.317	53	431247m	459.53	ug/L	
21) allyl chloride	6.511	41	1637000m	374.87	ug/L	
22) trans-1,2-dichloroethene	7.104	96	939768	402.76	ug/L	87
23) iodomethane	6.363	142	1557286	417.53	ug/L	89
24) carbon disulfide	6.712	76	3059617m	399.21	ug/L	
25) propionitrile	7.351	54	156890	498.77	ug/L	100
26) vinyl acetate	7.450	43	1966634	432.84	ug/L	94
27) chloroprene	7.718	53	1618934	401.37	ug/L	93
28) di-isopropyl ether	7.764	45	3234386	372.76	ug/L	91
29) methacrylonitrile	7.866	41	658271	397.84	ug/L	92
30) 2-butanone	7.757	72	130194	455.22	ug/L #	53
31) 1,1-dichloroethane	7.354	63	1851787	386.14	ug/L	95
32) tert-butyl ethyl ether	8.159	59	3368213	424.13	ug/L	93
33) Hexane	7.739	41	1513991	337.11	ug/L #	75
34) isobutyl alcohol	8.159	43	392317	1589.79	ug/L	83
35) 2,2-dichloropropane	8.212	77	1398181	397.29	ug/L	97
36) cis-1,2-dichloroethene	7.923	96	1025548	399.35	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.159	43	392903	315.39	ug/L		97
38) bromochloromethane	8.088	128	501472	400.37	ug/L	#	61
39) chloroform	8.127	83	1777479	385.59	ug/L		97
41) 1,1,1-trichloroethane	8.879	97	1495062	410.28	ug/L		93
43) cyclohexane	9.161	56	1788992	404.47	ug/L	#	81
44) carbon tetrachloride	9.242	117	1350424	470.04	ug/L		95
45) 1,1-dichloropropene	9.052	75	1339853	417.33	ug/L		94
46) benzene	9.274	78	3814867	401.52	ug/L		99
47) tetrahydrofuran	8.452	42	309961	390.21	ug/L		94
48) 1,2-dichloroethane	8.777	62	1369484	384.58	ug/L		98
49) tert-amyl methyl ether	9.401	73	2863425	450.16	ug/L		95
50) heptane	9.761	43	1274934	378.09	ug/L		94
51) trichloroethene	9.899	95	1061396	429.28	ug/L		84
52) 1,2-dichloropropane	9.863	63	1077466	409.34	ug/L		96
53) dibromomethane	9.835	93	662007	420.66	ug/L		98
54) bromodichloromethane	9.948	83	1377653	440.26	ug/L		96
55) methylcyclohexane	10.414	83	1683526	419.00	ug/L		90
56) 2-chloroethyl vinyl ether	10.329	63	755093	450.56	ug/L		89
57) methyl methacrylate	10.050	69	744709	460.39	ug/L		87
58) 1,4-dioxane	10.047	88	52420	2626.65	ug/L		80
59) cis-1,3-dichloropropene	10.569	75	1647082	474.27	ug/L		92
61) 4-methyl-2-pentanone	10.664	43	1111557	417.34	ug/L		96
62) toluene	11.349	92	2386041	412.40	ug/L		98
63) trans-1,3-dichloropropene	10.993	75	1566562	506.16	ug/L		98
64) 1,1,2-trichloroethane	11.162	83	792234	411.32	ug/L		91
65) ethyl methacrylate	11.374	69	1457227	472.60	ug/L		78
67) tetrachloroethene	12.087	166	1162686	471.12	ug/L		93
68) 1,3-dichloropropane	11.398	76	1538584	409.20	ug/L		98
69) dibromochloromethane	11.684	129	1063323	545.17	ug/L		100
70) 1,2-dibromoethane	11.935	107	981571	448.51	ug/L		94
71) 2-hexanone	11.522	43	801935	448.83	ug/L		99
72) chlorobenzene	12.768	112	2828925	426.22	ug/L		92
73) 1,1,1,2-tetrachloroethane	12.686	131	994622	493.32	ug/L		96
74) ethylbenzene	12.948	91	4687100	442.11	ug/L		100
75) m,p-xylene	13.135	106	3579882	900.82	ug/L		95
76) o-xylene	13.547	106	1858045	456.34	ug/L		97
77) styrene	13.473	104	3129279	460.27	ug/L		98
78) bromoform	13.293	173	760238	630.03	ug/L		99
79) trans-1,4-dichloro-2-b...	13.699	53	352997	530.71	ug/L	#	80
81) isopropylbenzene	13.911	105	4520487	477.74	ug/L		97
83) bromobenzene	14.190	156	1307626	504.63	ug/L		90
84) 1,1,2,2-tetrachloroethane	13.551	83	1089301	467.07	ug/L		96
85) 1,2,3-trichloropropane	13.696	75	1326186	512.27	ug/L		97
86) n-propylbenzene	14.356	91	5391800	484.16	ug/L		99
87) 2-chlorotoluene	14.472	91	3178354	475.83	ug/L		93
88) 4-chlorotoluene	14.546	91	3331445	473.70	ug/L		93
89) 1,3,5-trimethylbenzene	14.634	105	3646399	488.99	ug/L		97
90) tert-butylbenzene	14.938	91	2070124	452.86	ug/L		91
91) 1,2,4-trimethylbenzene	15.044	105	3527954	468.98	ug/L		98
92) sec-butylbenzene	15.164	105	4264740	436.10	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

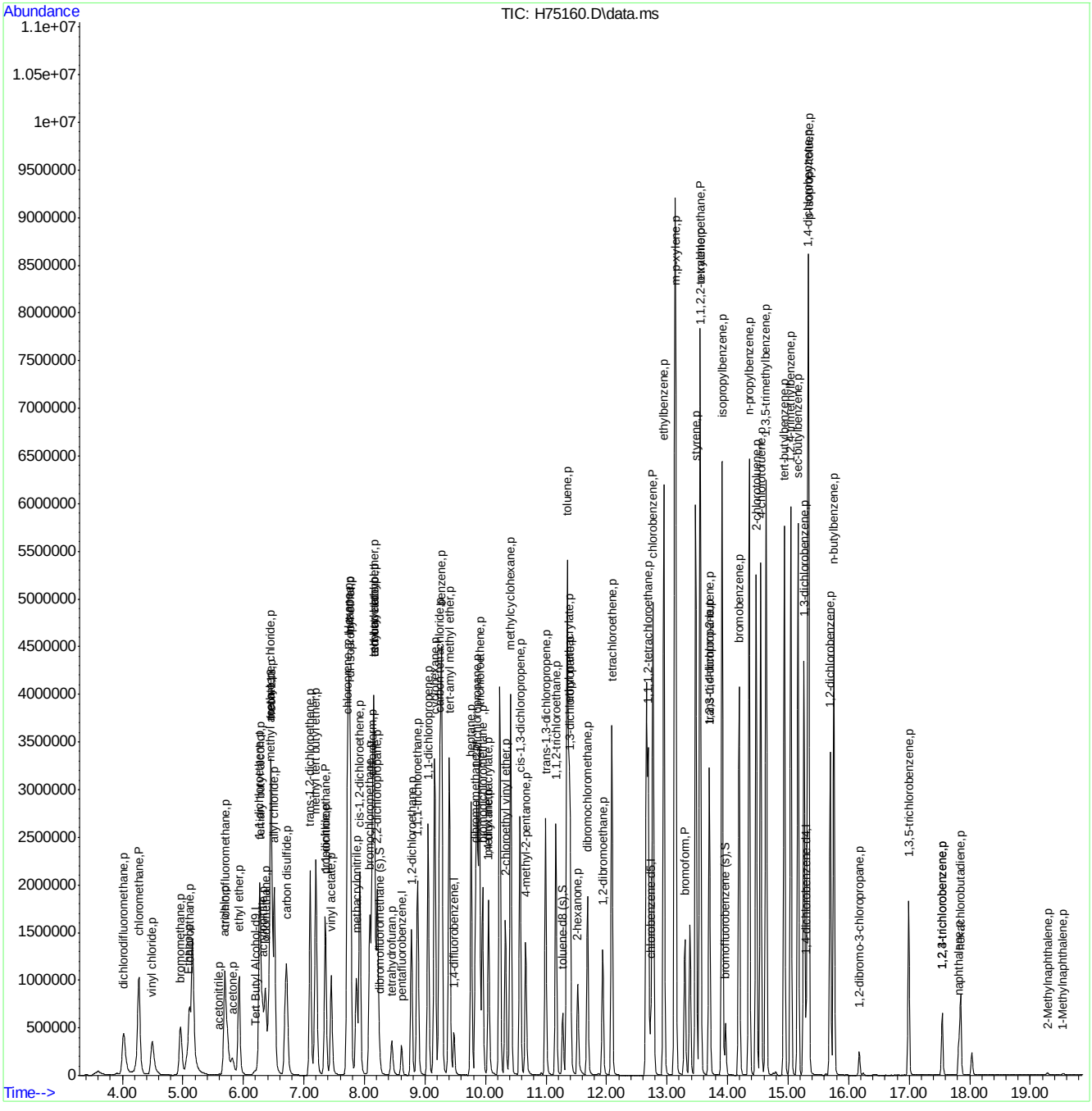
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.262	146	1973334	438.50	ug/L	99
94) p-isopropyltoluene	15.337	119	3390535	408.33	ug/L	98
95) 1,4-dichlorobenzene	15.330	146	1919843	385.34	ug/L	99
96) 1,2-dichlorobenzene	15.697	146	1534661	368.23	ug/L	99
97) n-butylbenzene	15.757	91	2879298	388.40	ug/L	95
98) 1,2-dibromo-3-chloropr...	16.176	75	62160	263.56	ug/L	94
99) 1,3,5-trichlorobenzene	16.992	180	628448	247.64	ug/L #	94
100) 1,2,4-trichlorobenzene	17.546	180	238985	177.62	ug/L	98
101) hexachlorobutadiene	17.849	225	187587	194.40	ug/L	99
102) naphthalene	17.821	128	304639	148.83	ug/L	100
103) 1,2,3-trichlorobenzene	17.546	180	238985	177.62	ug/L	100
104) 2-Methylnaphthalene	19.285	142	11972	198.42	ug/L	93
105) 1-Methylnaphthalene	19.539	142	8965	215.37	ug/L #	7

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

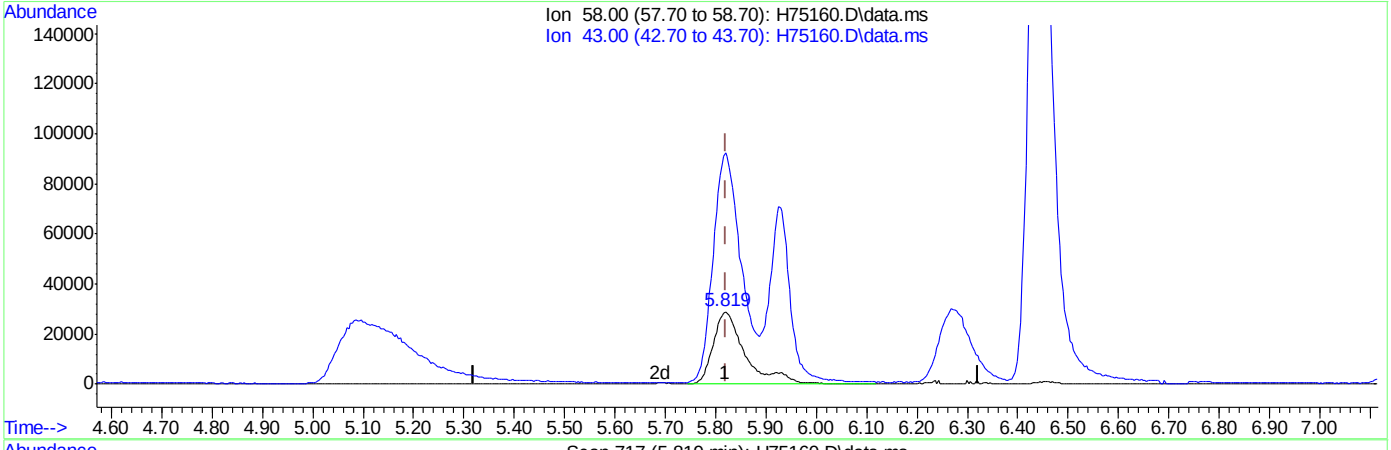


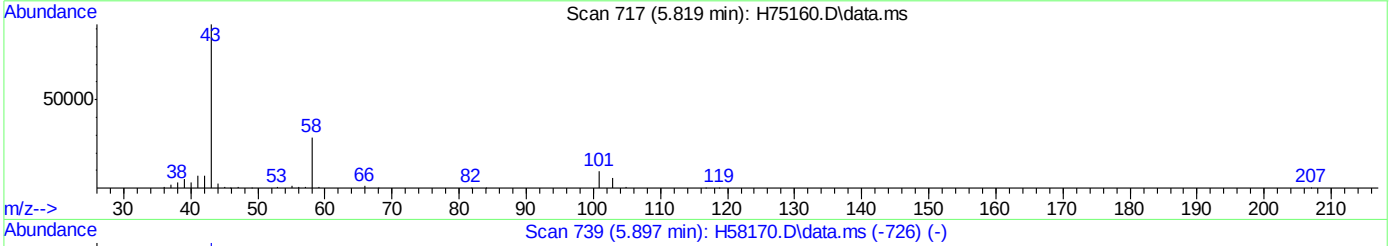
ACCUTEST LABORATORIES MC41696

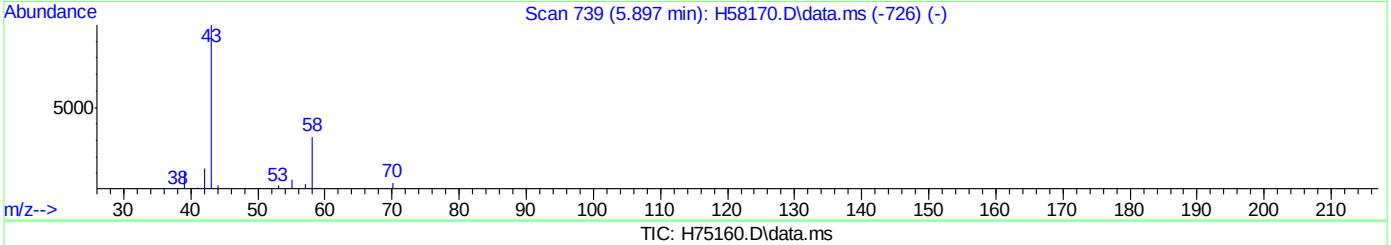
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(15) acetone (p)

5.819min (-0.002) 507.21ug/L

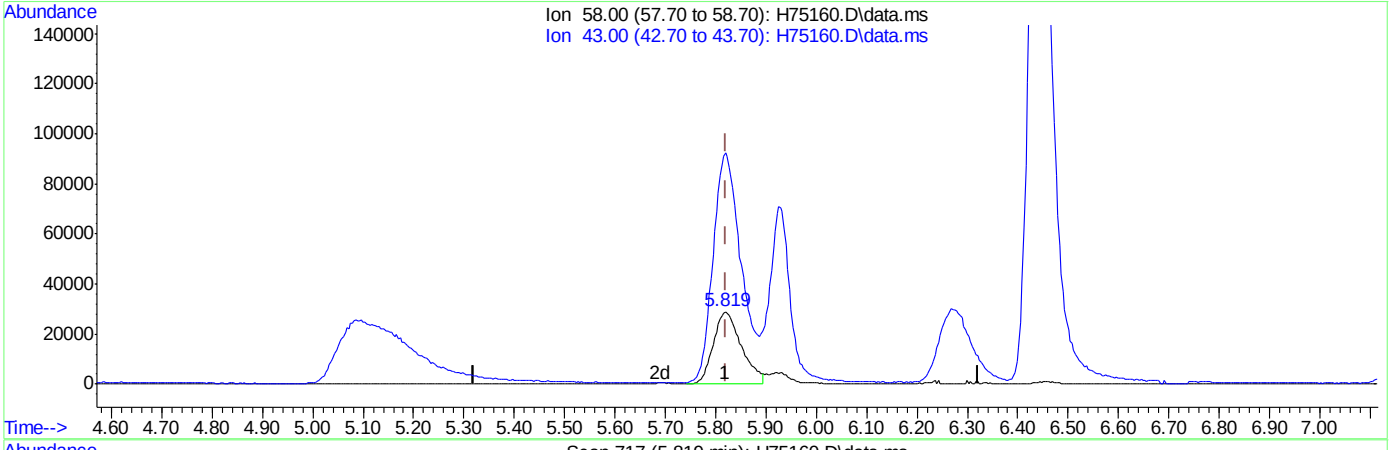
response 129730

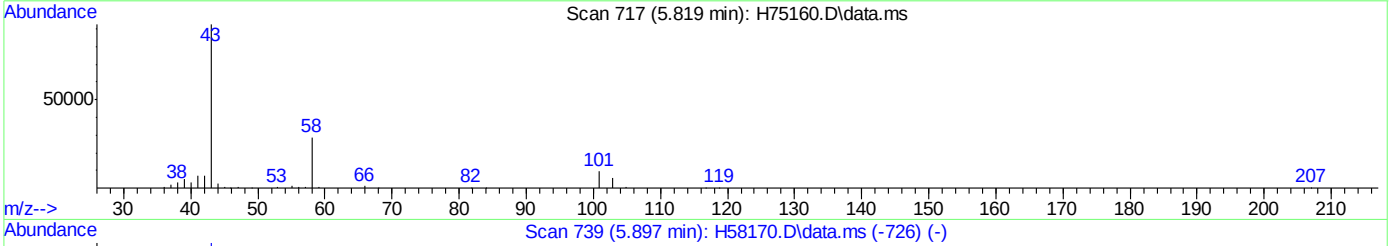
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	318.74
0.00	0.00	0.00
0.00	0.00	0.00

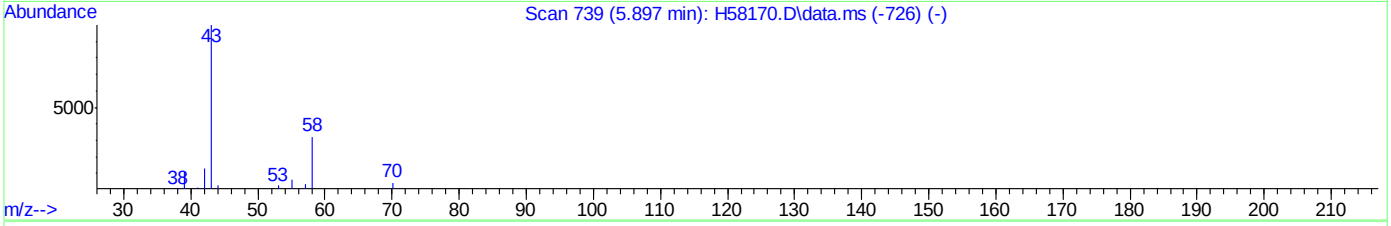
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(15) acetone (p)

5.819min (-0.002) 440.96ug/L m

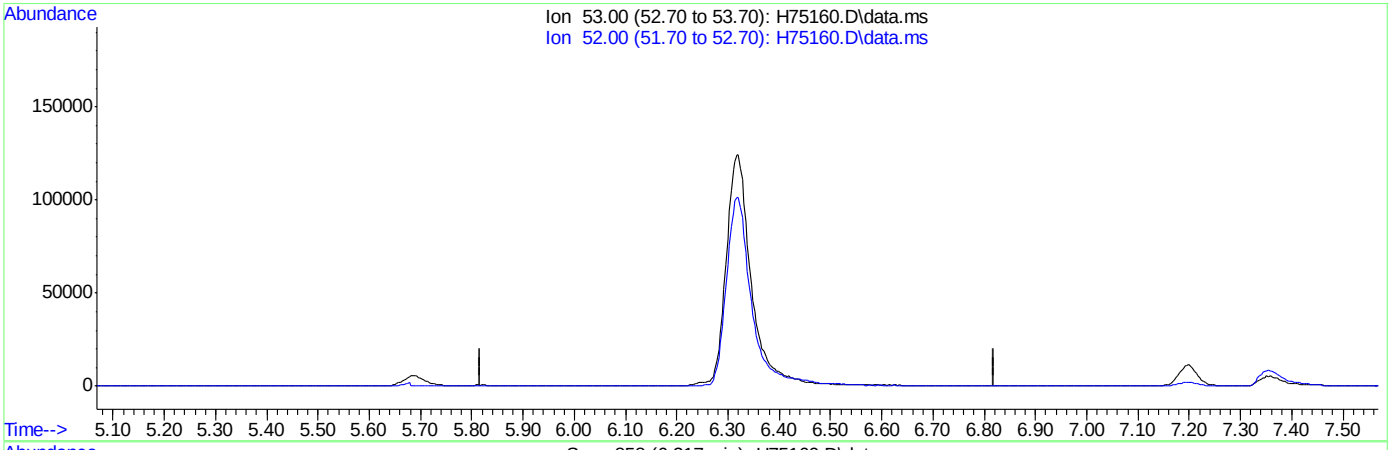
response 112785

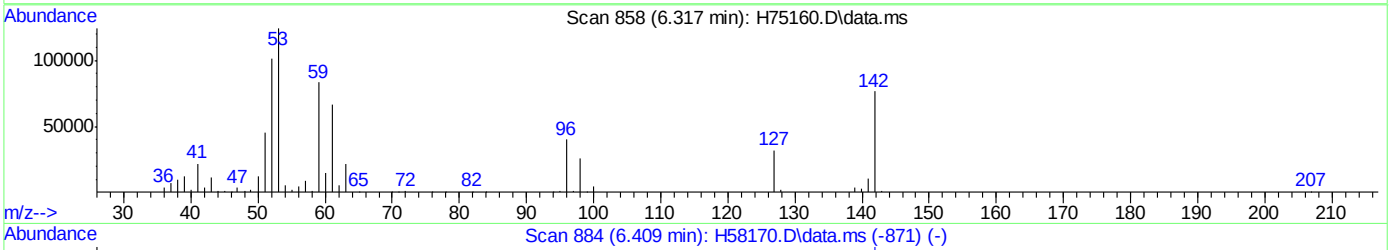
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	320.89
0.00	0.00	0.00
0.00	0.00	0.00

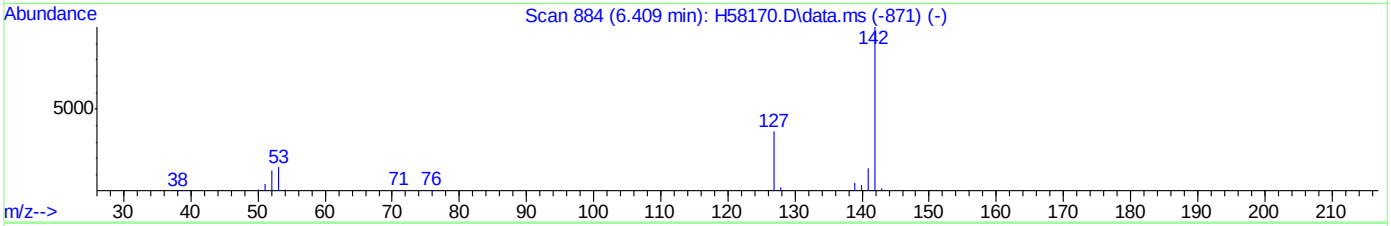
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(20) acrylonitrile (p)

6.319min (-6.319) 0.00ug/L

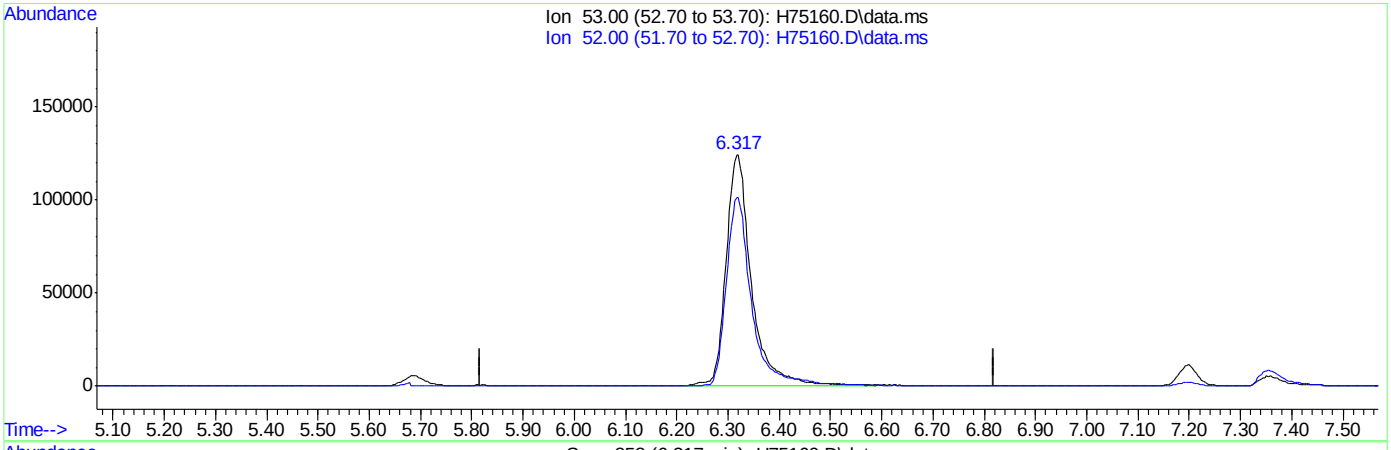
response 0

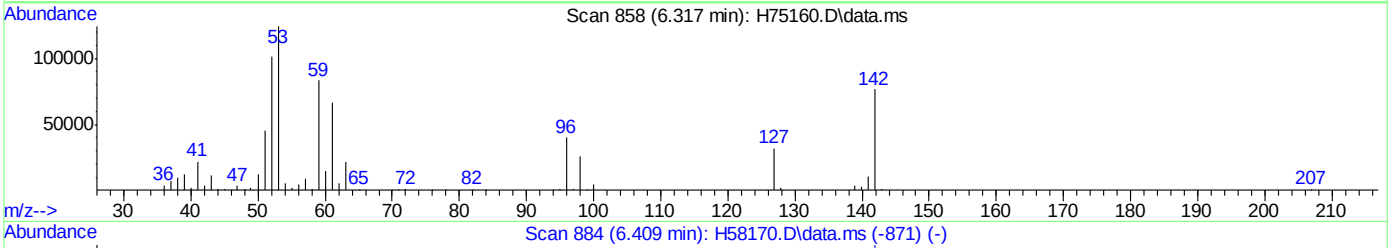
Ion	Exp%	Act%
53.00	100	0.00
52.00	84.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

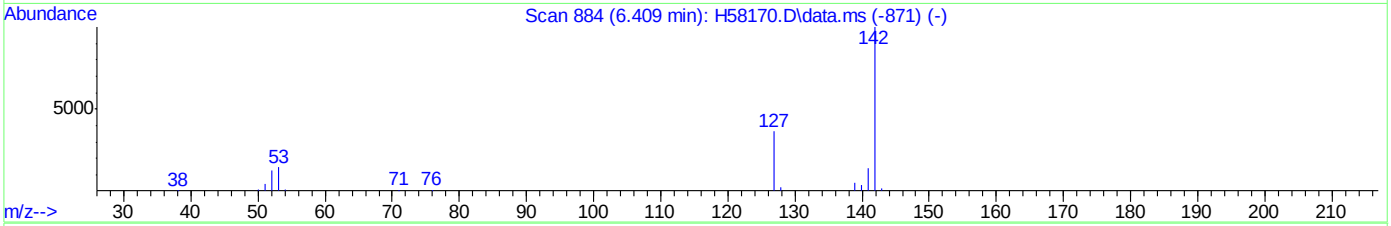
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(20) acrylonitrile (p)

6.317min (-0.002) 459.53ug/L m

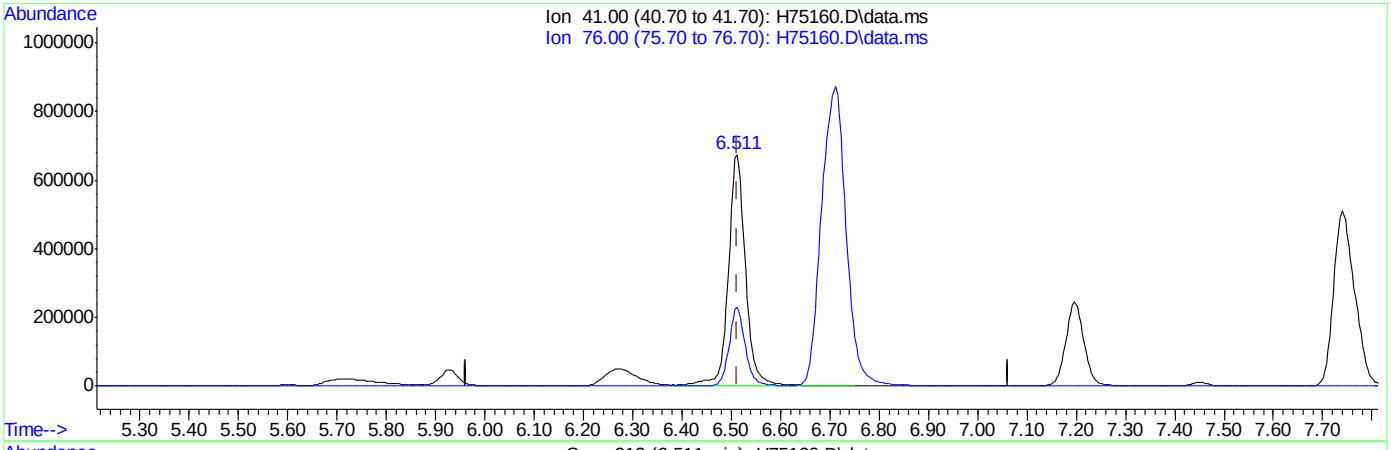
response 431247

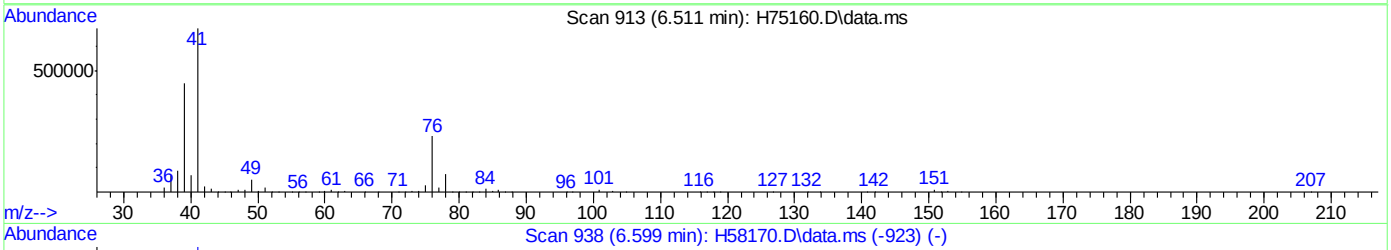
Ion	Exp%	Act%
53.00	100	100
52.00	84.80	81.48
0.00	0.00	0.00
0.00	0.00	0.00

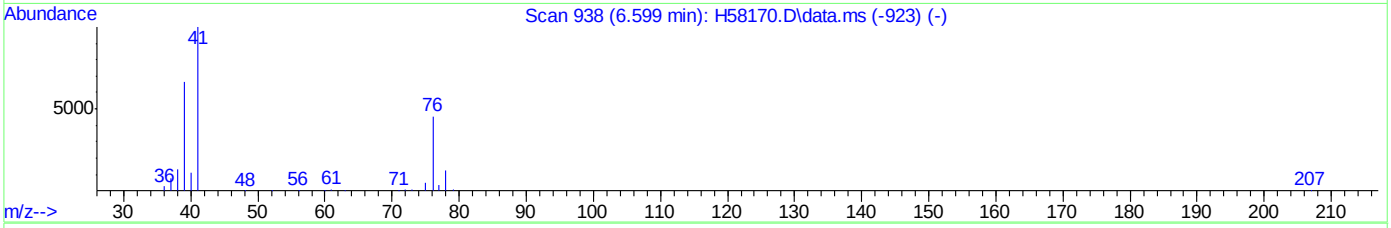
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(21) allyl chloride (p)

6.511min (-0.002) 373.98ug/L

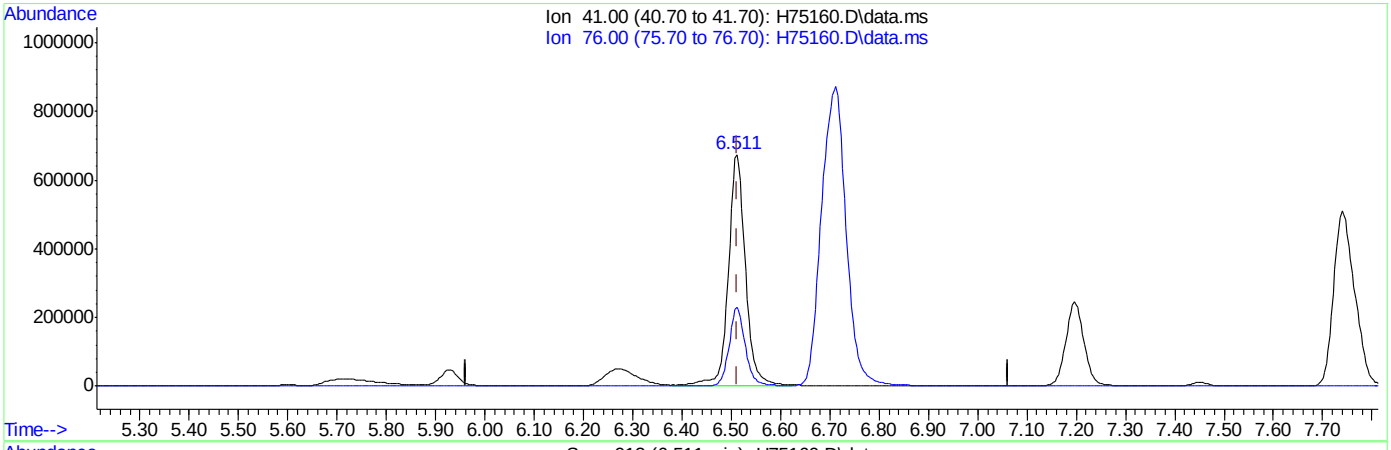
response 1633123

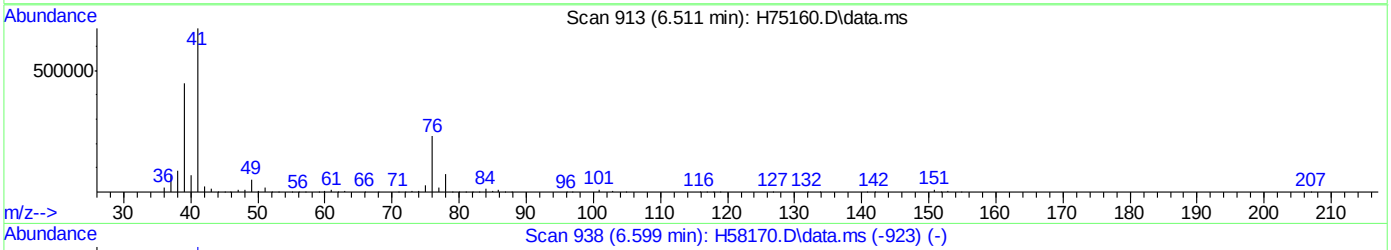
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	34.05
0.00	0.00	0.00
0.00	0.00	0.00

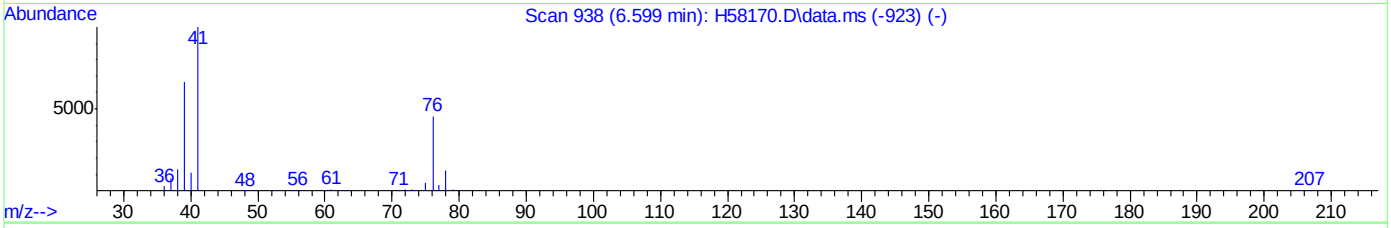
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(21) allyl chloride (p)

6.511min (-0.002) 374.87ug/L m

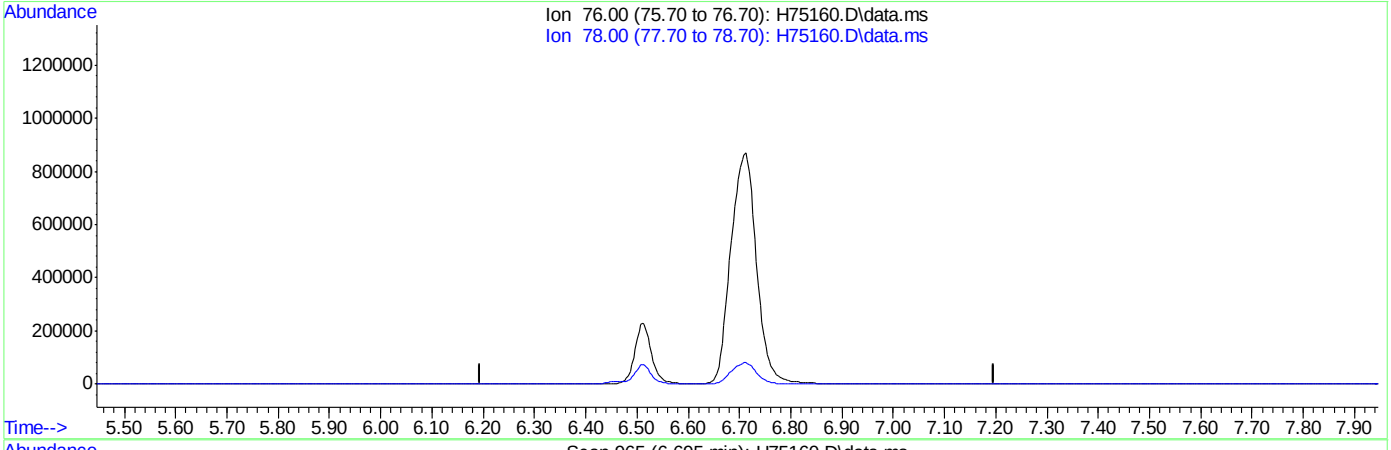
response 1637000

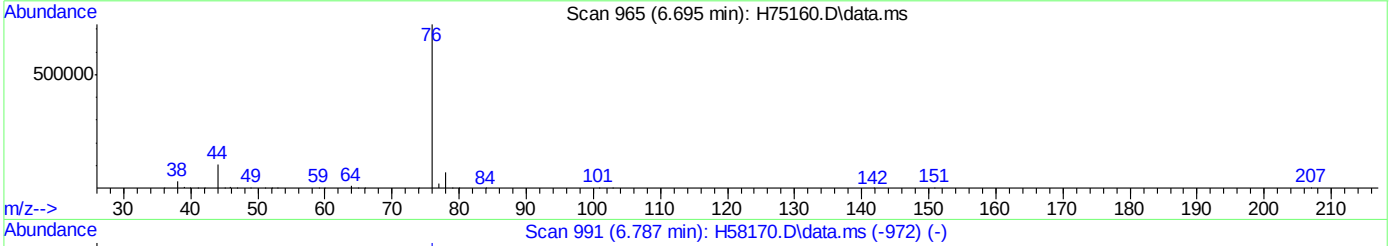
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	34.02
0.00	0.00	0.00
0.00	0.00	0.00

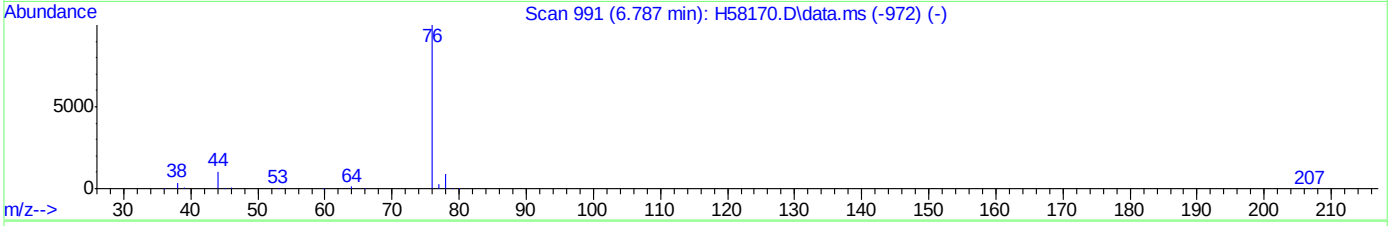
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(24) carbon disulfide (p)

6.696min (-6.696) 0.00ug/L

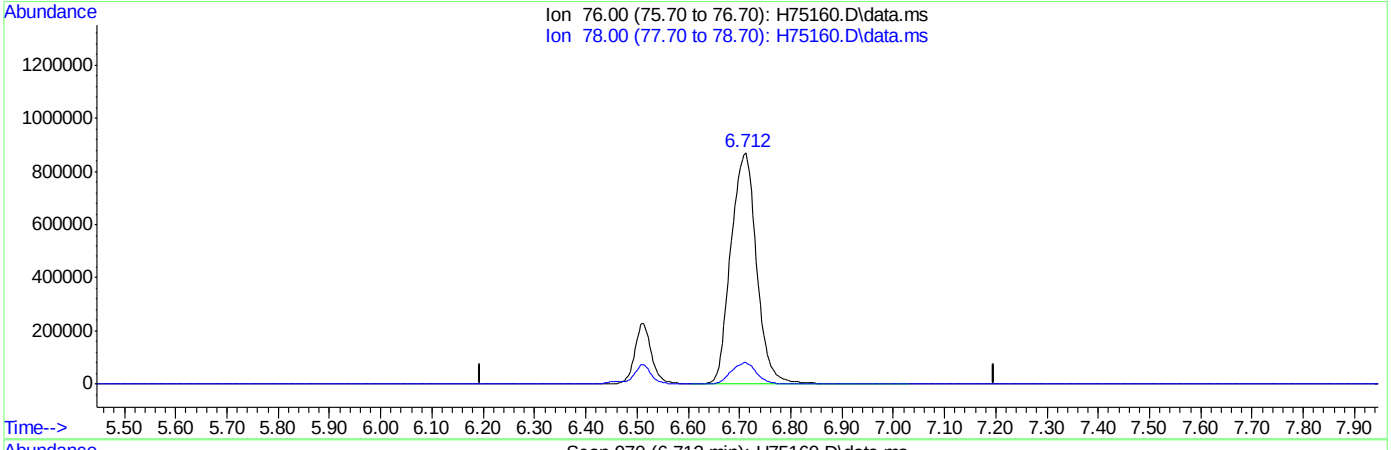
response 0

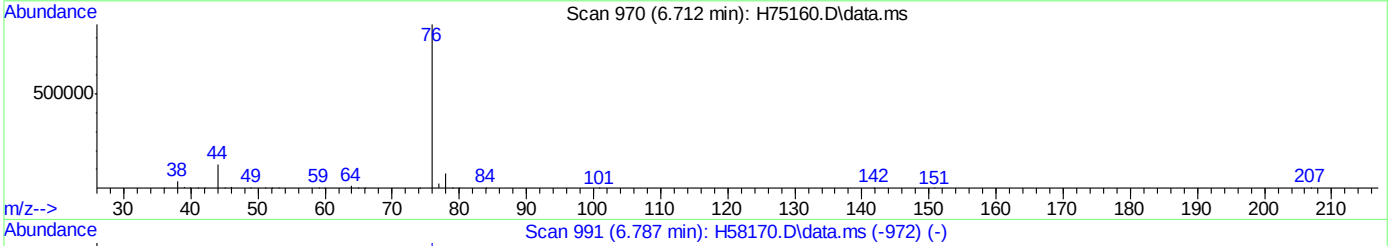
Ion	Exp%	Act%
76.00	100	0.00
78.00	10.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

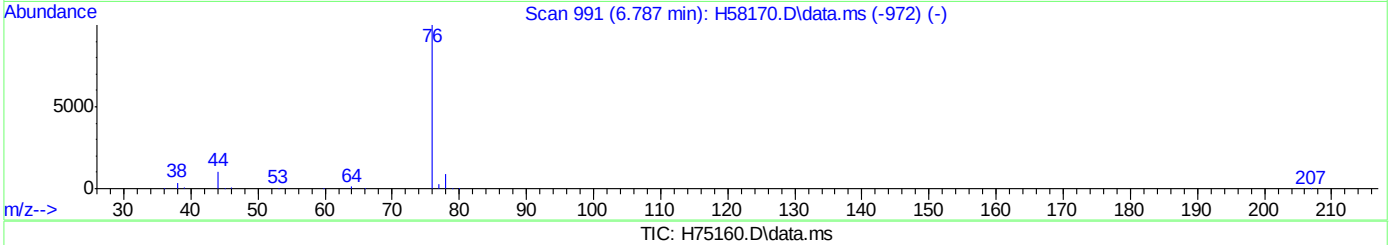
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(24) carbon disulfide (p)

6.712min (+0.016) 399.21ug/L m

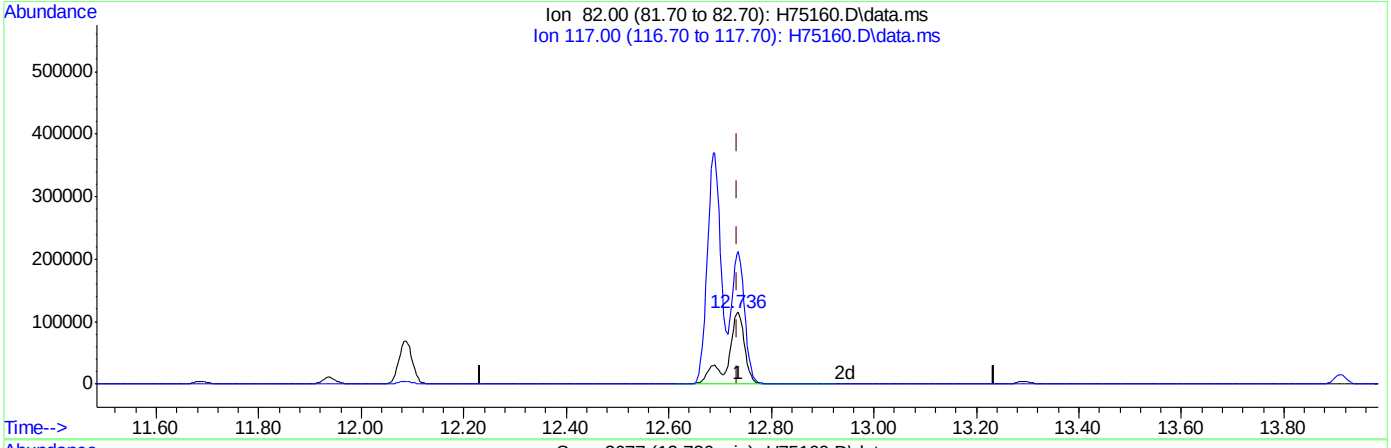
response 3059617

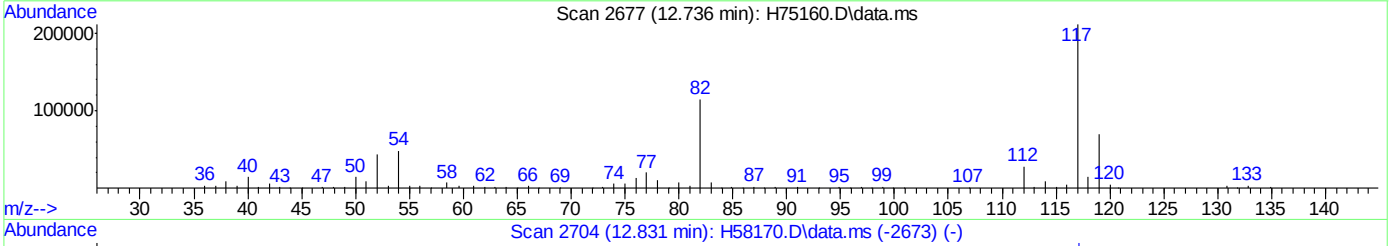
Ion	Exp%	Act%
76.00	100	100
78.00	10.10	9.25
0.00	0.00	0.00
0.00	0.00	0.00

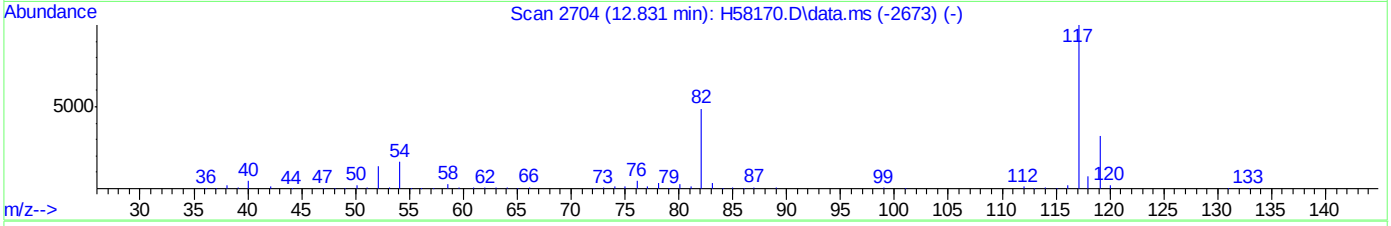
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(66) chlorobenzene-d5 (I)

12.736min (+0.002) 50.00ug/L

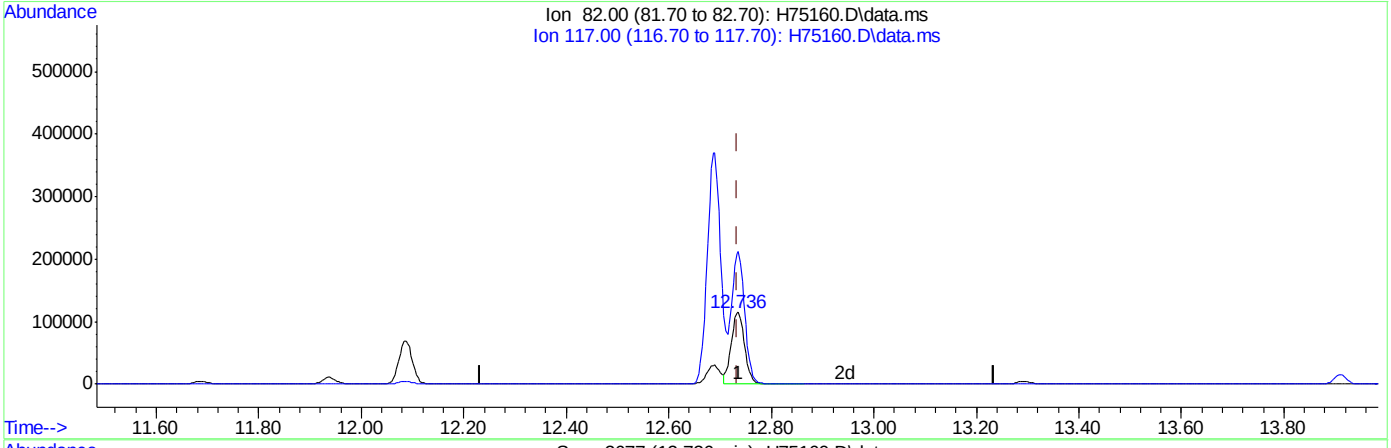
response 268547

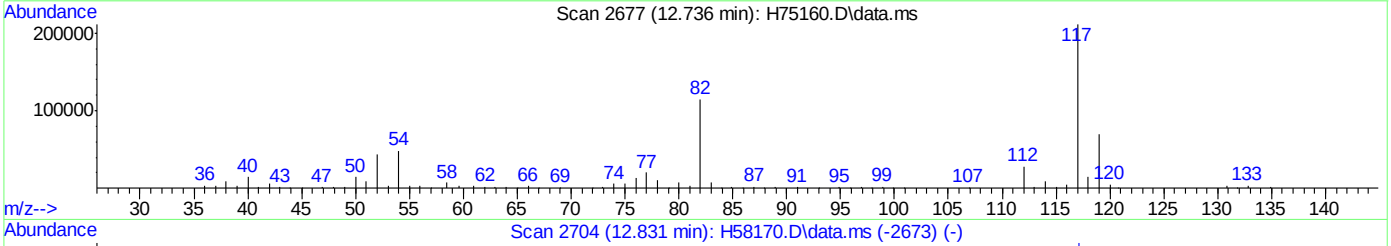
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	183.88
0.00	0.00	0.00
0.00	0.00	0.00

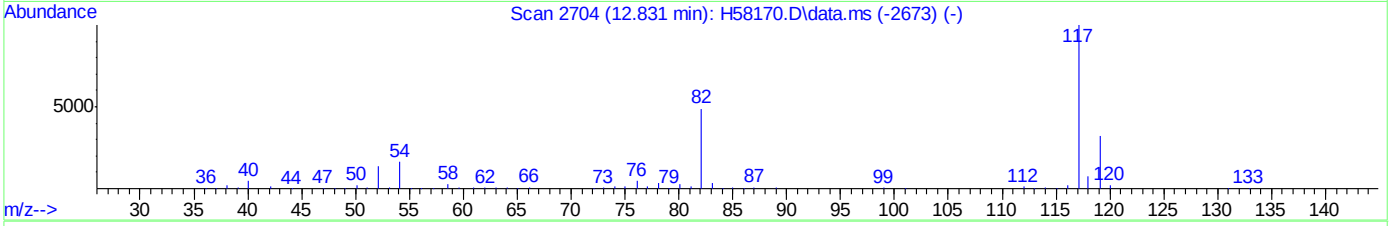
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(66) chlorobenzene-d5 (I)

12.736min (+0.002) 50.00ug/L m

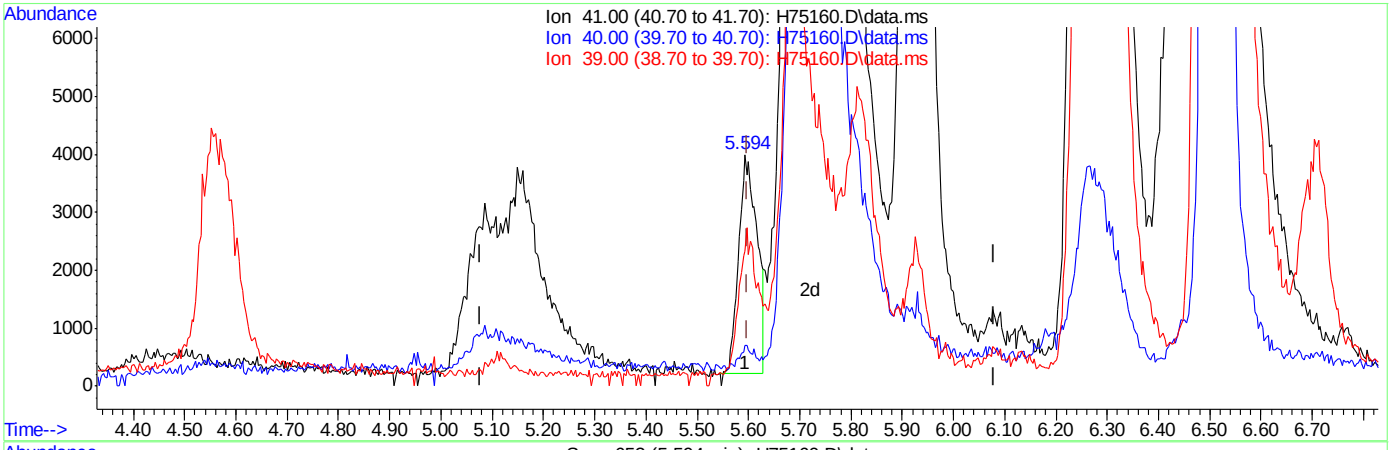
response 210669

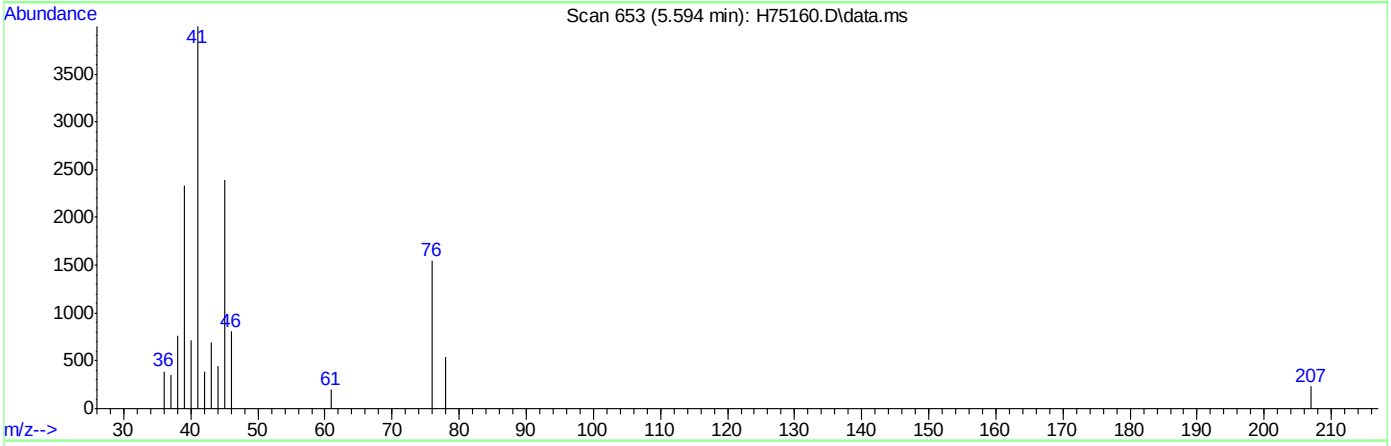
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	183.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration





TIC: H75160.D\data.ms

(10) acetonitrile (p)

5.594min (-0.005) 275.53ug/L

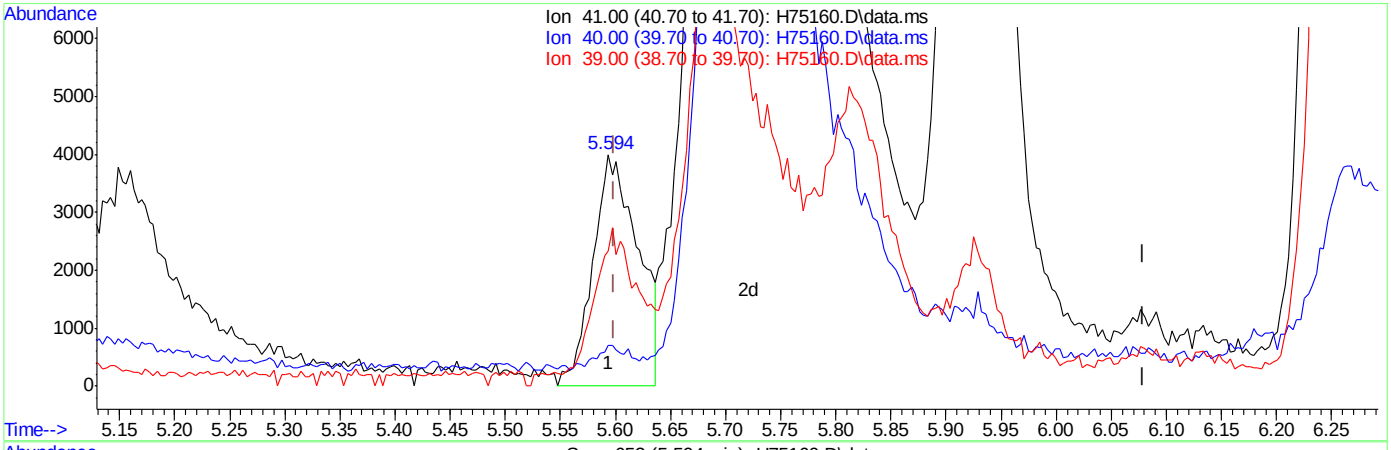
response 9439

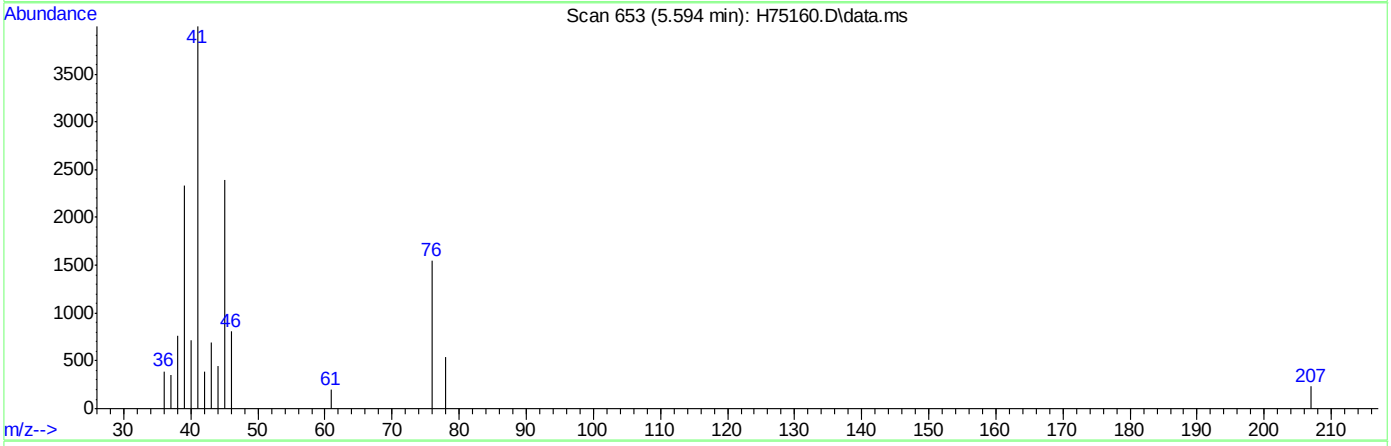
Ion	Exp%	Act%
41.00	100	100
40.00	22.50	10.16
39.00	56.70	55.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration





TIC: H75160.D\data.ms

(10) acetonitrile (p)

5.594min (-0.005) 330.23ug/L m

response 11313

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	17.78
39.00	56.70	58.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.190	65	97313	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	228881	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.483	114	346932	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	203768	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	178962	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	110909	47.92	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.84%			
60) toluene-d8 (s)	11.275	98	419140	49.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.60%			
82) bromofluorobenzene (s)	13.964	95	176032	49.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.32%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.275	59	114997	511.68	ug/L	93
3) Ethanol	5.103	45	131279	4444.40	ug/L	97
5) dichlorodifluoromethane	4.024	85	108910	44.16	ug/L	99
6) chloromethane	4.271	50	117629	54.91	ug/L	96
7) vinyl chloride	4.500	62	137400	57.81	ug/L	98
8) bromomethane	4.955	96	83539	58.95	ug/L	98
9) chloroethane	5.103	64	84758	58.16	ug/L	99
11) trichlorofluoromethane	5.696	101	181972	50.87	ug/L	99
12) freon-113	6.466	101	104002	45.83	ug/L	95
13) acrolein	5.696	56	67080	653.38	ug/L	100
14) 1,1-dichloroethene	6.271	96	91933	46.76	ug/L #	77
15) acetone	5.827	58	16121m	66.23	ug/L	
16) ethyl ether	5.933	59	95084	48.45	ug/L	88
17) methyl acetate	6.451	43	123698	55.33	ug/L	87
18) methylene chloride	6.455	84	118993	47.85	ug/L #	77
19) methyl tert butyl ether	7.196	73	329472	53.91	ug/L	88
20) acrylonitrile	6.328	53	49258	54.80	ug/L	99
21) allyl chloride	6.515	41	175084	43.14	ug/L	90
22) trans-1,2-dichloroethene	7.108	96	103633	47.32	ug/L	84
23) iodomethane	6.367	142	167106	47.47	ug/L	87
24) carbon disulfide	6.691	76	302525	42.10	ug/L	99
25) propionitrile	7.376	54	17037	51.80	ug/L	100
26) vinyl acetate	7.457	43	222197	51.54	ug/L	93
27) chloroprene	7.718	53	169397	44.76	ug/L	99
28) di-isopropyl ether	7.764	45	417468	51.74	ug/L	89
29) methacrylonitrile	7.870	41	76619	49.41	ug/L	93
30) 2-butanone	7.768	72	16296	59.39	ug/L #	91
31) 1,1-dichloroethane	7.355	63	207248	46.26	ug/L	96
32) tert-butyl ethyl ether	8.156	59	384309	51.21	ug/L	91
33) Hexane	7.743	41	180625	43.87	ug/L	88
34) isobutyl alcohol	8.159	43	75297	388.92	ug/L	93
35) 2,2-dichloropropane	8.212	77	154309	46.80	ug/L	96
36) cis-1,2-dichloroethene	7.926	96	118166	49.07	ug/L	87
37) ethyl acetate	8.159	43	74345	76.26	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) bromochloromethane	8.089	128	57098	48.60	ug/L	#	53
39) chloroform	8.128	83	203884	47.35	ug/L		99
41) 1,1,1-trichloroethane	8.879	97	168111	49.05	ug/L		92
43) cyclohexane	9.162	56	184977	44.99	ug/L	#	78
44) carbon tetrachloride	9.243	117	139761	51.42	ug/L		96
45) 1,1-dichloropropene	9.052	75	144162	48.08	ug/L		93
46) benzene	9.274	78	426443	48.34	ug/L		100
47) tetrahydrofuran	8.456	42	39118	53.25	ug/L		88
48) 1,2-dichloroethane	8.780	62	160024	48.63	ug/L		100
49) tert-amyl methyl ether	9.401	73	322006	53.70	ug/L		92
50) heptane	9.761	43	152619	49.15	ug/L		93
51) trichloroethene	9.896	95	117019	50.62	ug/L		79
52) 1,2-dichloropropane	9.860	63	123855	50.55	ug/L		96
53) dibromomethane	9.836	93	75526	51.41	ug/L		98
54) bromodichloromethane	9.952	83	147352	50.11	ug/L		96
55) methylcyclohexane	10.414	83	177393	47.25	ug/L		86
56) 2-chloroethyl vinyl ether	10.330	63	87900	55.51	ug/L		89
57) methyl methacrylate	10.054	69	85280	55.61	ug/L		92
58) 1,4-dioxane	10.054	88	4667	224.49	ug/L		84
59) cis-1,3-dichloropropene	10.573	75	175412	53.43	ug/L		89
61) 4-methyl-2-pentanone	10.665	43	136722	54.97	ug/L		93
62) toluene	11.349	92	271812	50.45	ug/L		100
63) trans-1,3-dichloropropene	10.993	75	158946	47.92	ug/L		98
64) 1,1,2-trichloroethane	11.162	83	92134	51.38	ug/L		89
65) ethyl methacrylate	11.378	69	167090	56.91	ug/L		90
67) tetrachloroethene	12.087	166	124682	51.32	ug/L		92
68) 1,3-dichloropropane	11.399	76	189085	51.82	ug/L		97
69) dibromochloromethane	11.685	129	108901	45.30	ug/L		98
70) 1,2-dibromoethane	11.939	107	111517	51.89	ug/L		94
71) 2-hexanone	11.529	43	102002m	57.85	ug/L		
72) chlorobenzene	12.768	112	311580	48.18	ug/L		91
73) 1,1,1,2-tetrachloroethane	12.687	131	106682	53.32	ug/L		97
74) ethylbenzene	12.948	91	540445	52.09	ug/L		98
75) m,p-xylene	13.135	106	419505	107.78	ug/L		98
76) o-xylene	13.544	106	201534	50.46	ug/L		100
77) styrene	13.474	104	339160	50.49	ug/L		99
78) bromoform	13.294	173	72445	53.30	ug/L		98
79) trans-1,4-dichloro-2-b...	13.700	53	37867	48.64	ug/L	#	76
81) isopropylbenzene	13.908	105	508903	48.98	ug/L		100
83) bromobenzene	14.190	156	143590	50.00	ug/L		88
84) 1,1,2,2-tetrachloroethane	13.548	83	141349	55.79	ug/L		95
85) 1,2,3-trichloropropane	13.696	75	153644	53.41	ug/L		95
86) n-propylbenzene	14.356	91	588277	48.00	ug/L		95
87) 2-chlorotoluene	14.469	91	356439	48.63	ug/L		89
88) 4-chlorotoluene	14.546	91	380789	49.38	ug/L		91
89) 1,3,5-trimethylbenzene	14.635	105	444027	54.39	ug/L		100
90) tert-butylbenzene	14.938	91	248711	49.98	ug/L		92
91) 1,2,4-trimethylbenzene	15.044	105	431310	52.65	ug/L		99
92) sec-butylbenzene	15.160	105	533981	50.46	ug/L		99
93) 1,3-dichlorobenzene	15.259	146	243459	50.10	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94) p-isopropyltoluene	15.337	119	457569	51.42	ug/L		97
95) 1,4-dichlorobenzene	15.326	146	263073	49.62	ug/L		99
96) 1,2-dichlorobenzene	15.697	146	233538	52.91	ug/L		99
97) n-butylbenzene	15.757	91	419993	53.25	ug/L		93
98) 1,2-dibromo-3-chloropr...	16.177	75	14837	58.88	ug/L		90
99) 1,3,5-trichlorobenzene	16.992	180	137660	50.77	ug/L	#	94
100) 1,2,4-trichlorobenzene	17.549	180	79833	58.48	ug/L		94
101) hexachlorobutadiene	17.849	225	58514	58.59	ug/L		98
102) naphthalene	17.825	128	117650	57.54	ug/L		100
103) 1,2,3-trichlorobenzene	17.549	180	79833	58.48	ug/L		95

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

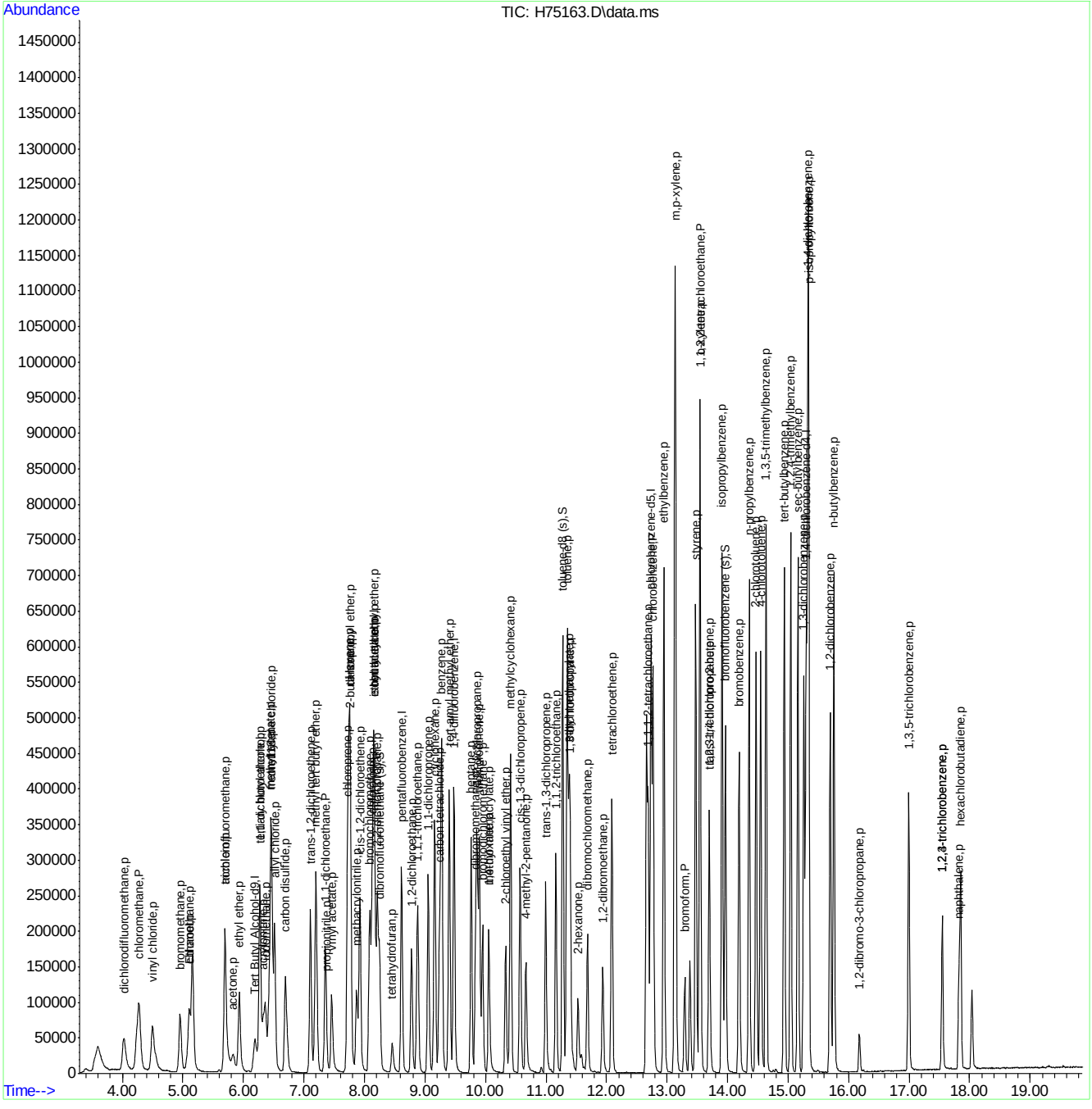
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

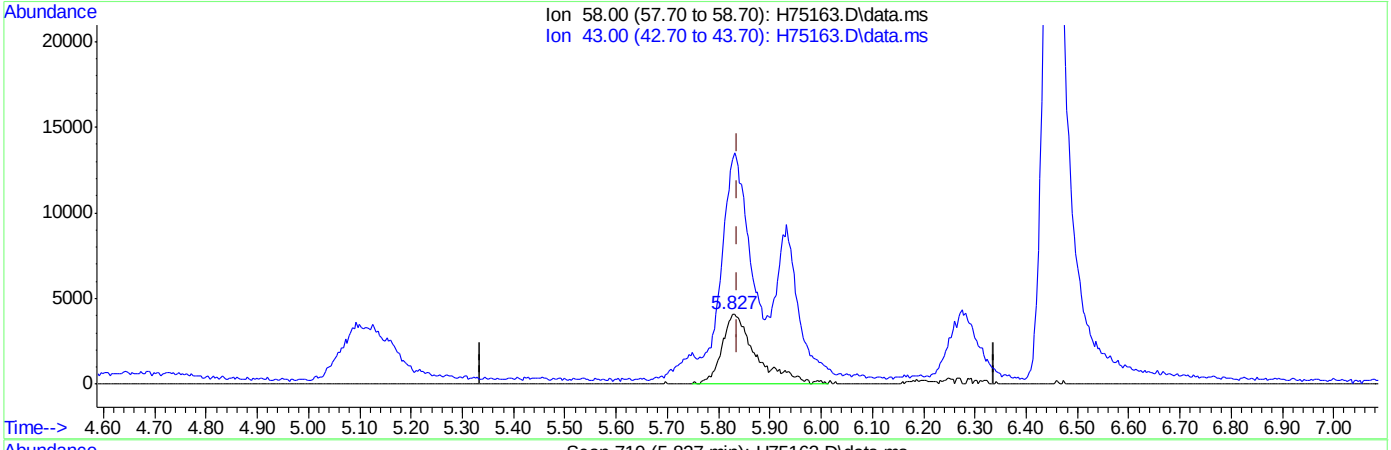
Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

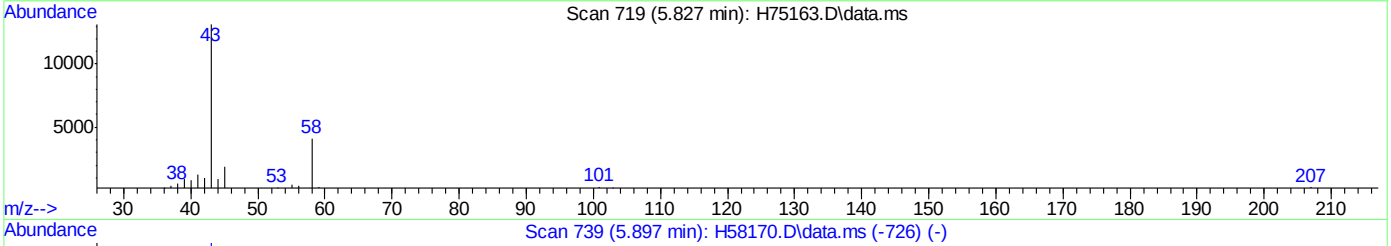


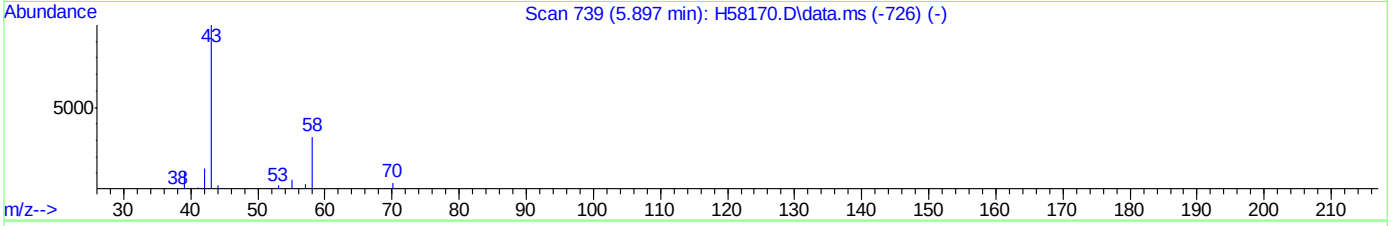
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 78.37ug/L

response 19075

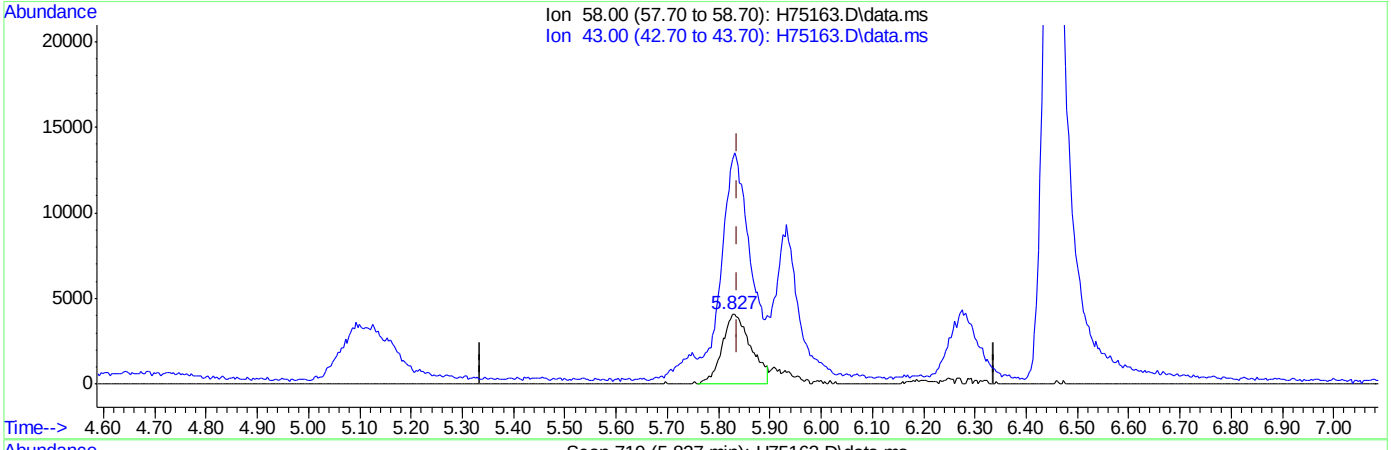
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	298.83
0.00	0.00	0.00
0.00	0.00	0.00

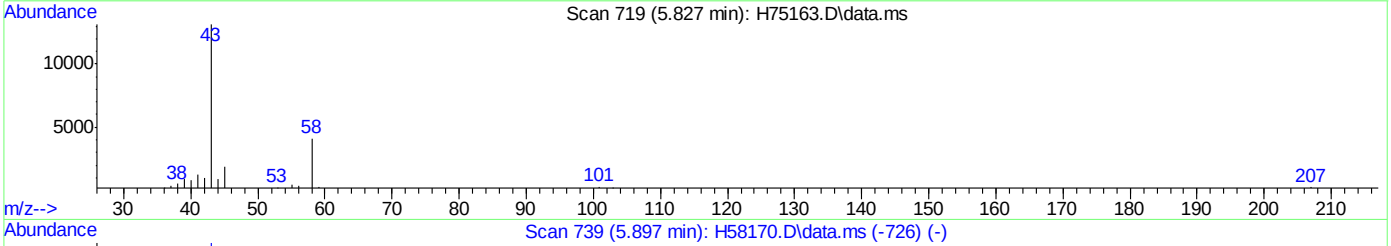
ACCUTEST LABORATORIES
MC41696

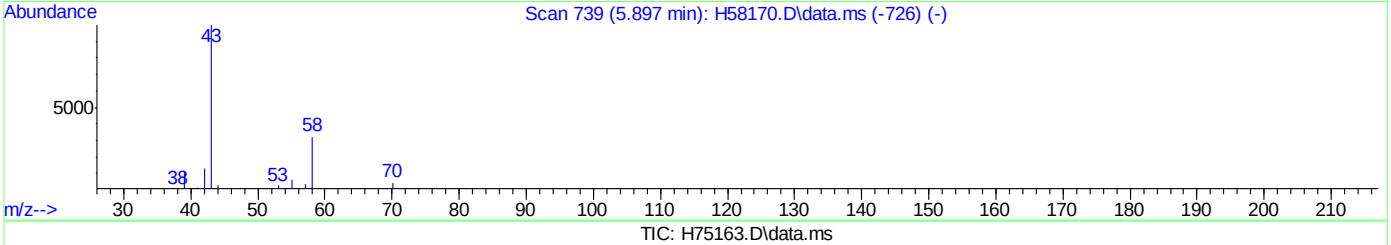
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 65.66ug/L m

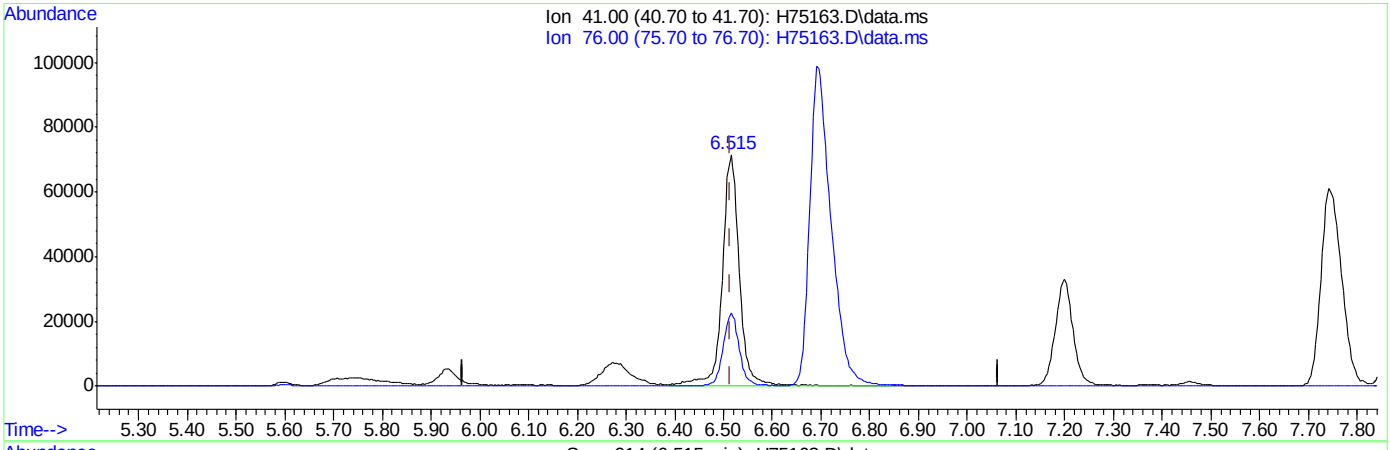
response 15982

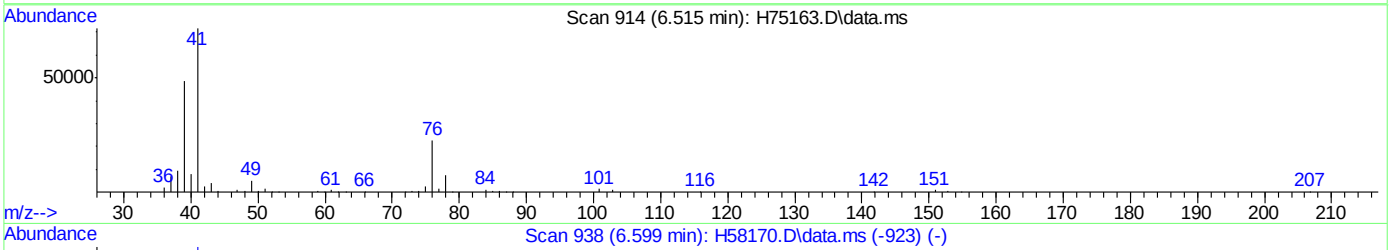
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.41
0.00	0.00	0.00
0.00	0.00	0.00

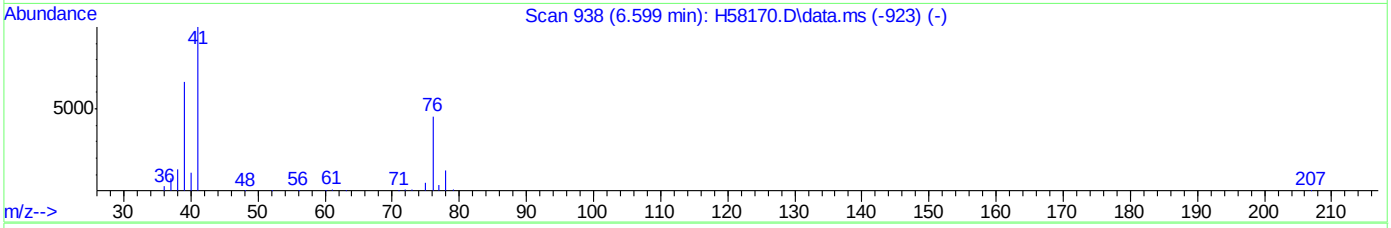
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 43.14ug/L

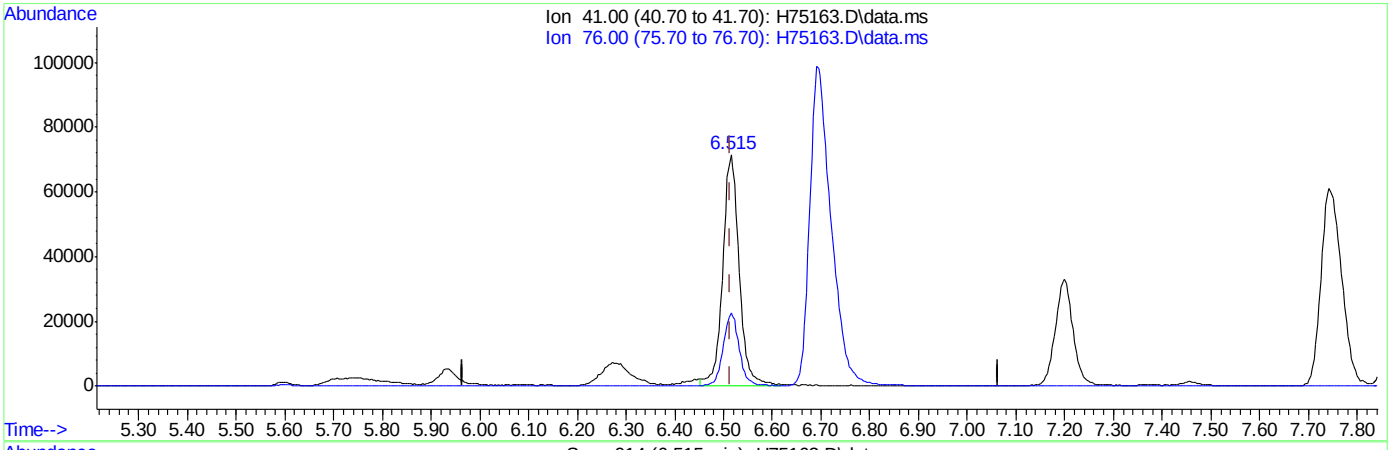
response 175084

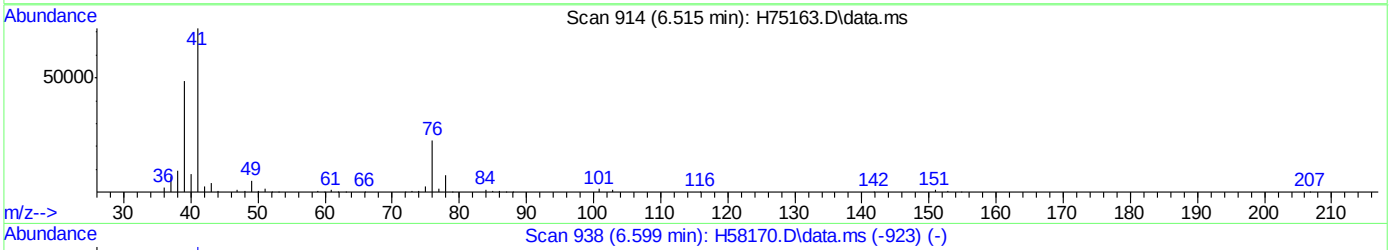
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

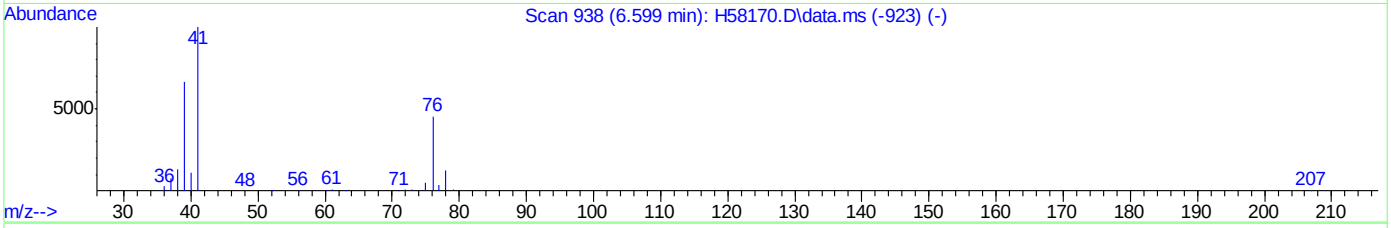
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 41.06ug/L m

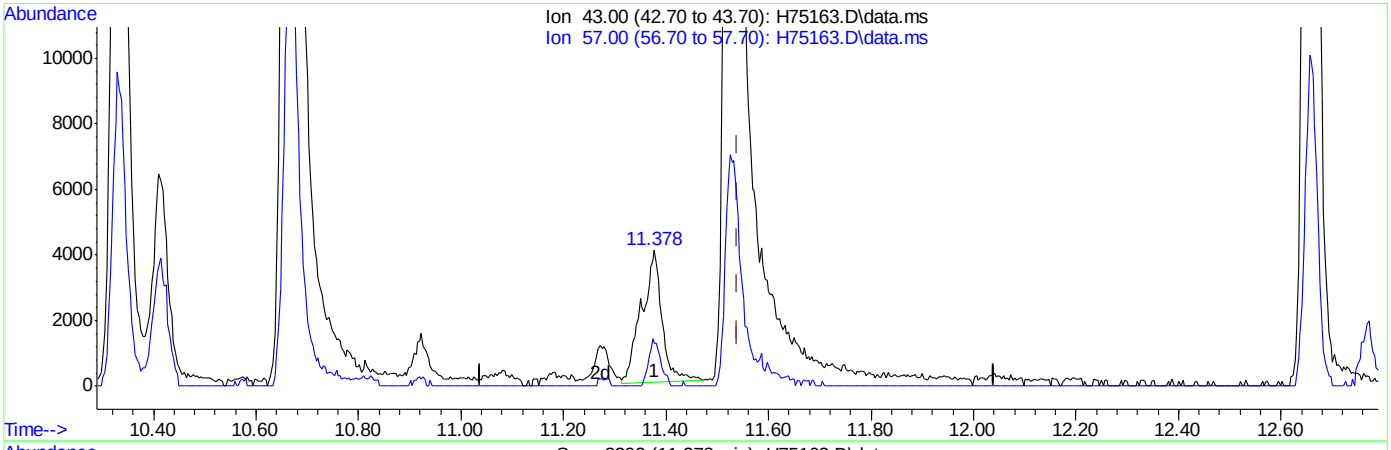
response 166662

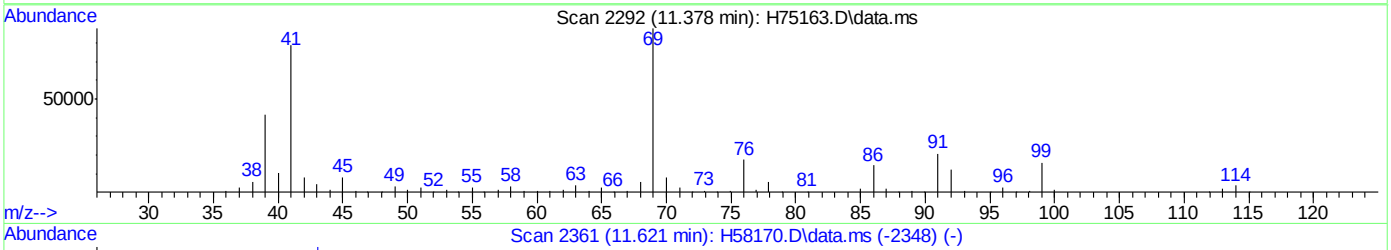
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

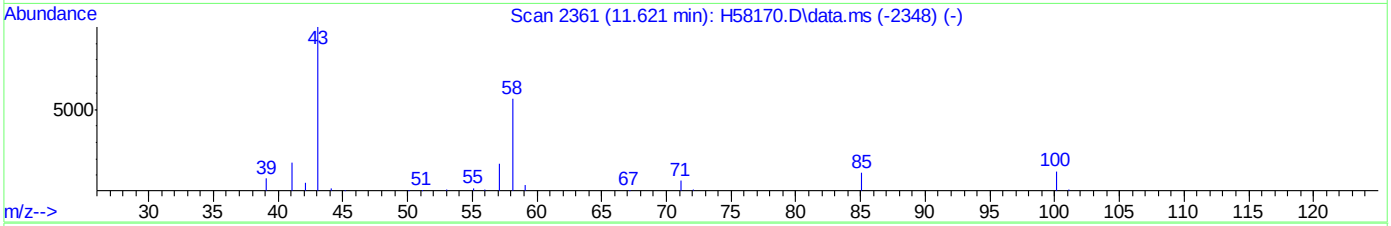
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.378min (-0.162) 6.29ug/L

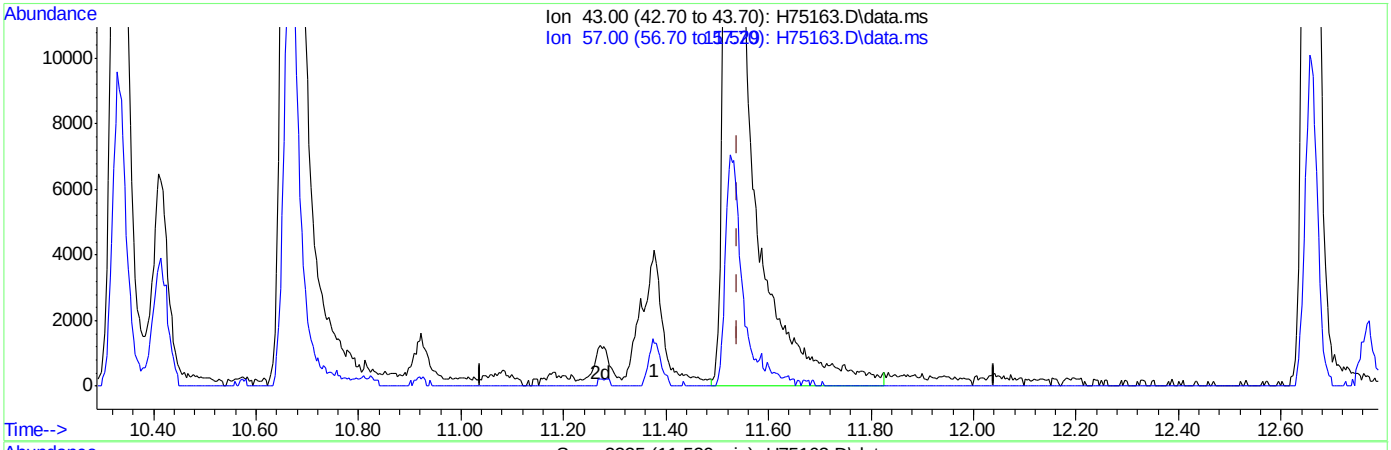
response 11100

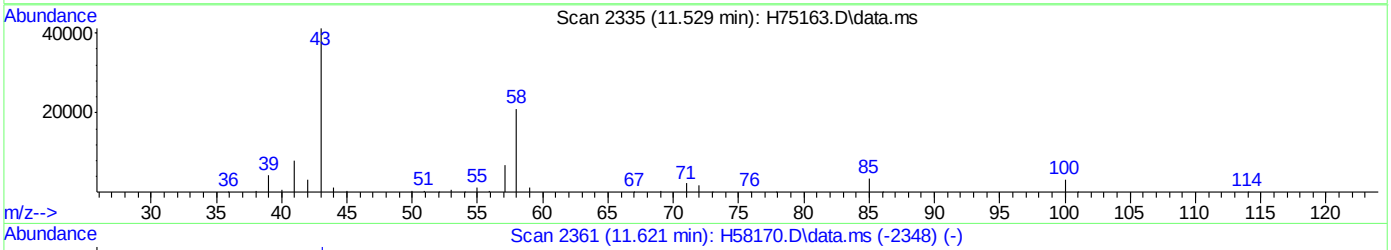
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	21.07
0.00	0.00	0.00
0.00	0.00	0.00

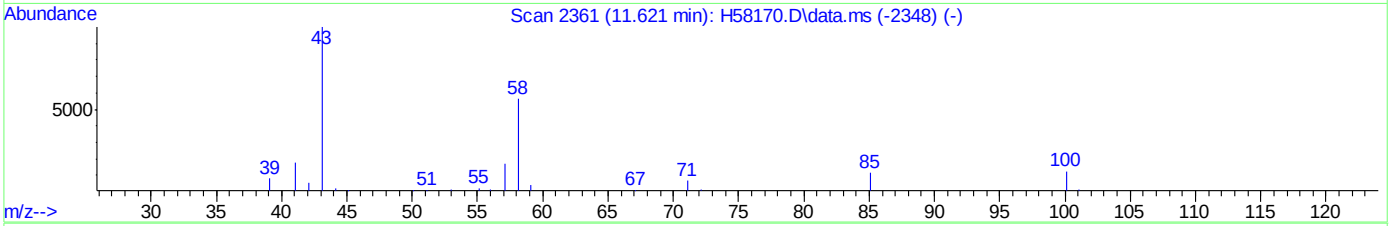
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.529min (-0.010) 59.04ug/L m

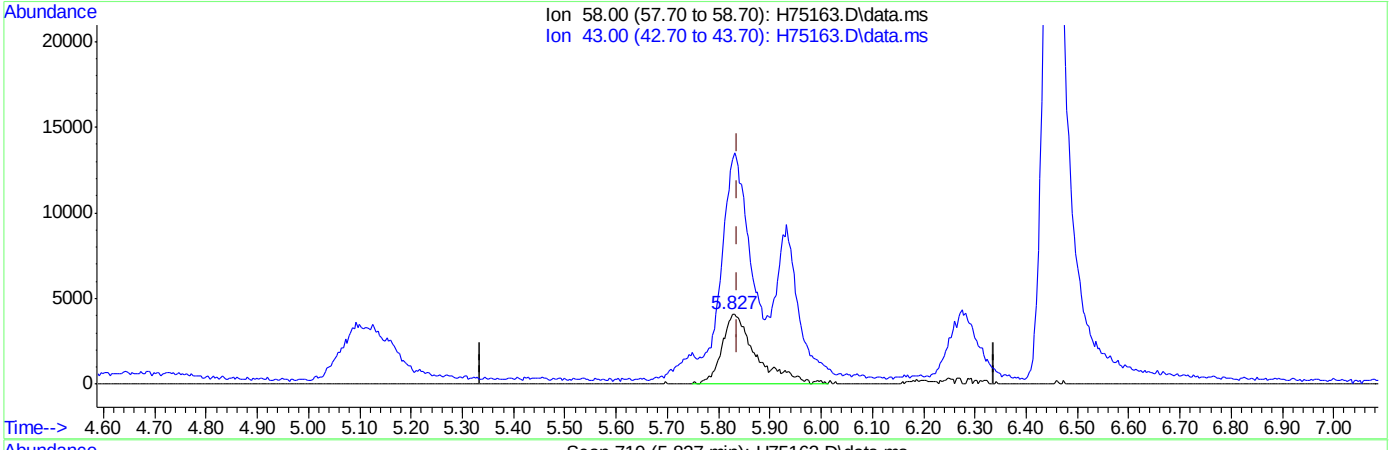
response 104100

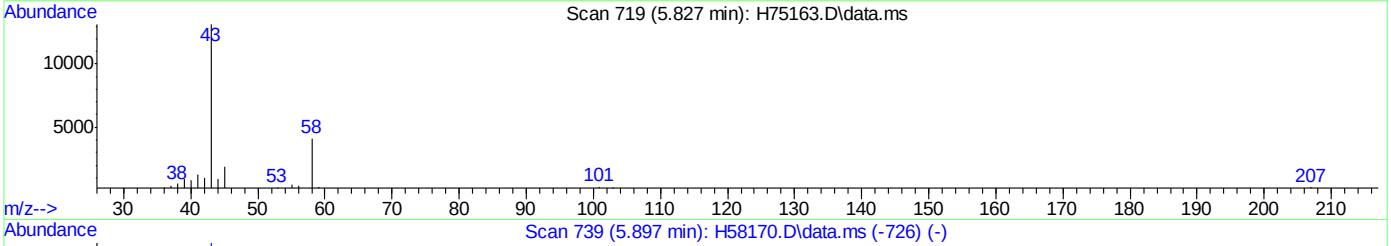
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	2.25
0.00	0.00	0.00
0.00	0.00	0.00

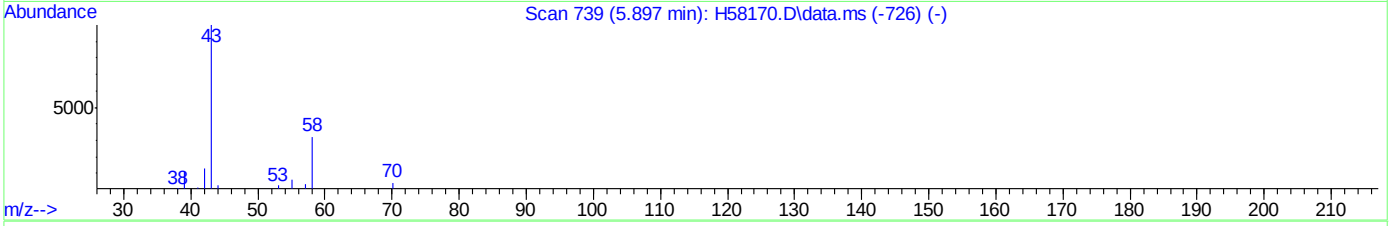
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 78.37ug/L

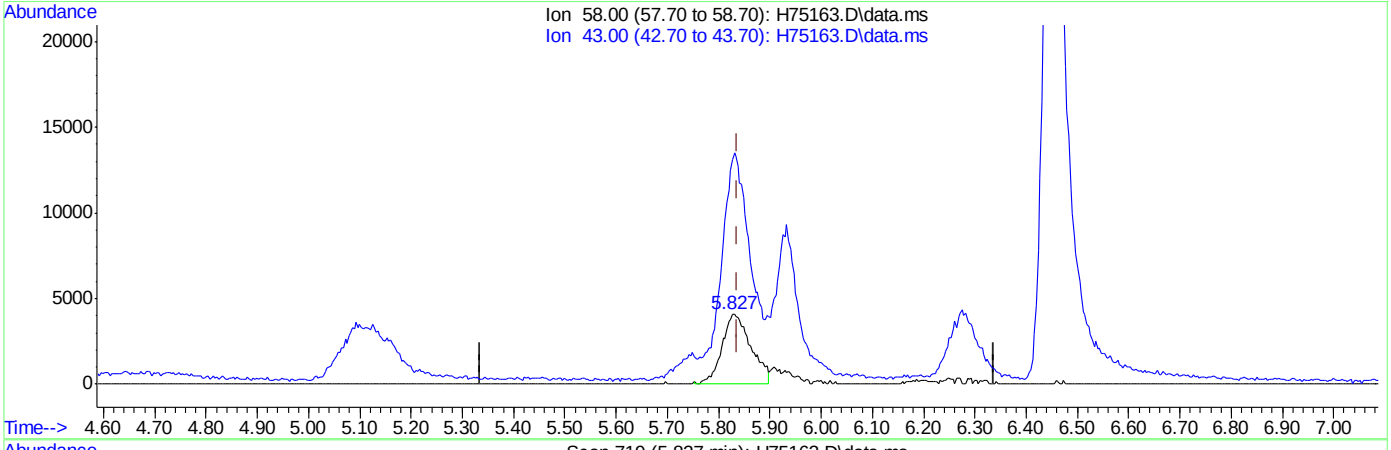
response 19075

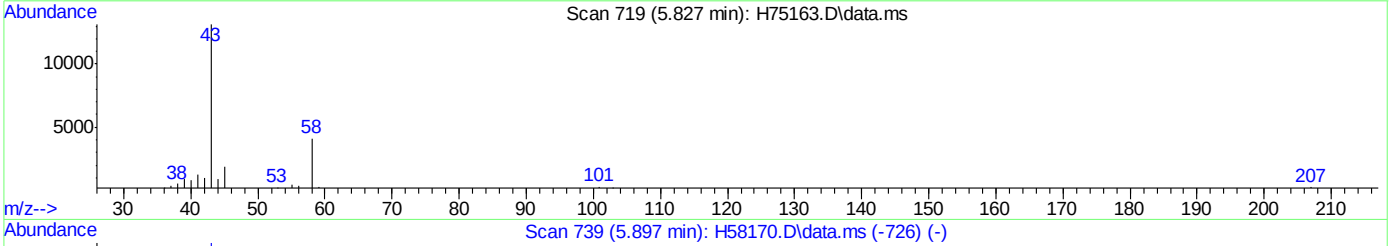
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	298.83
0.00	0.00	0.00
0.00	0.00	0.00

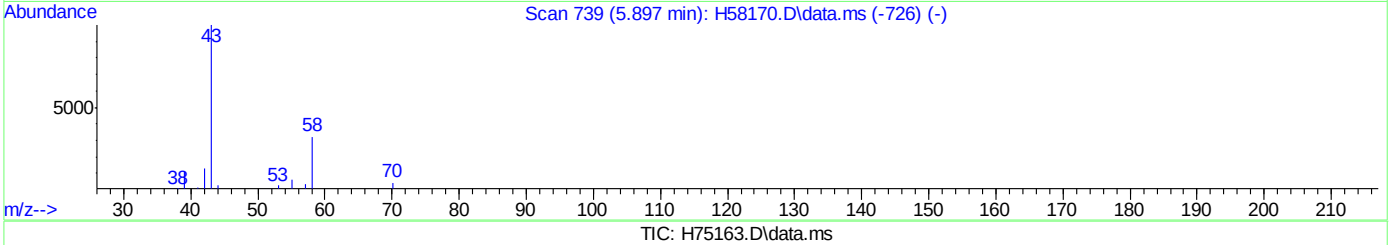
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 66.24ug/L m

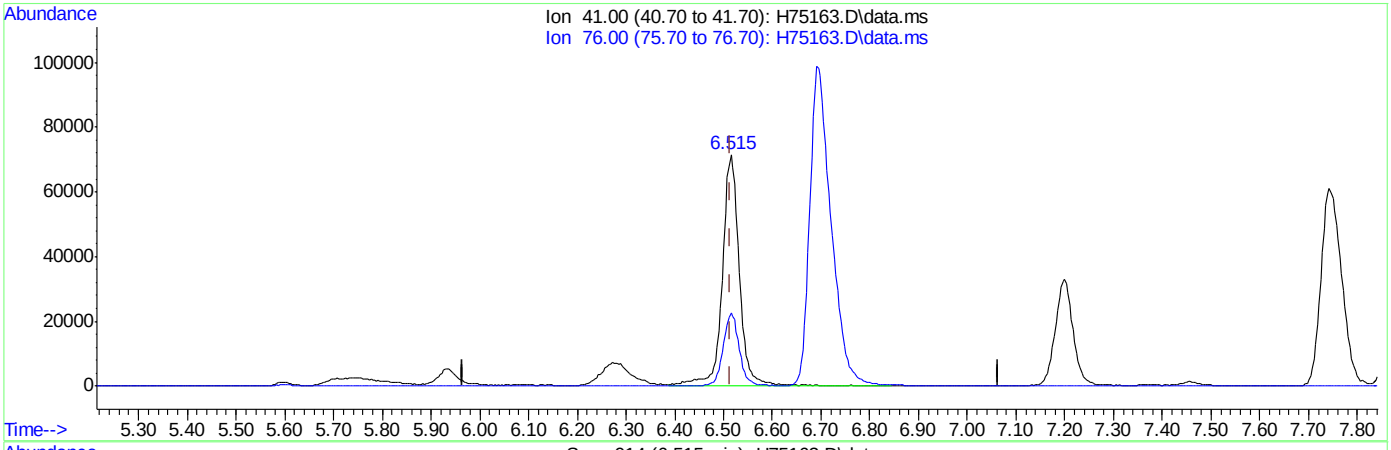
response 16123

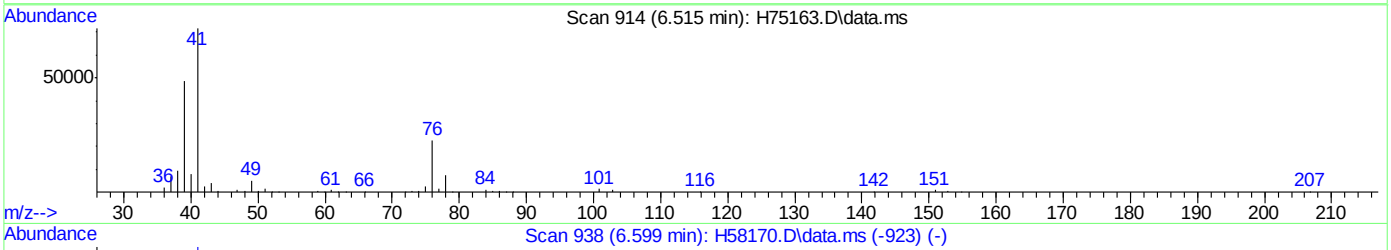
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.41
0.00	0.00	0.00
0.00	0.00	0.00

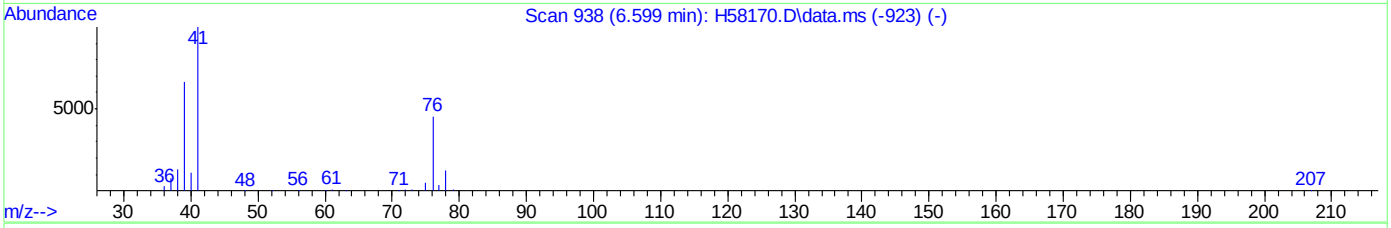
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 43.14ug/L

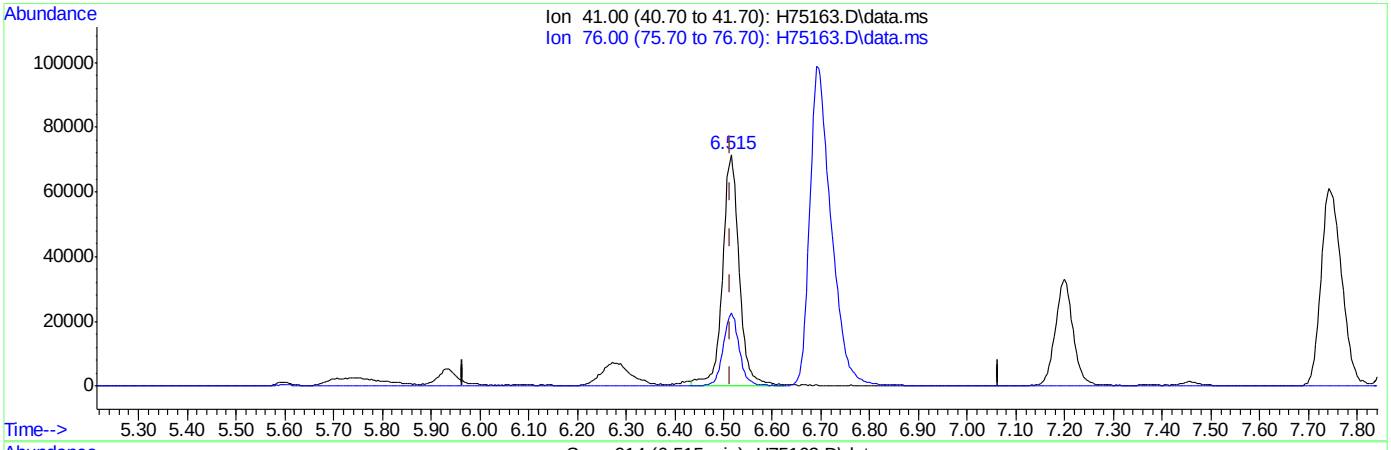
response 175084

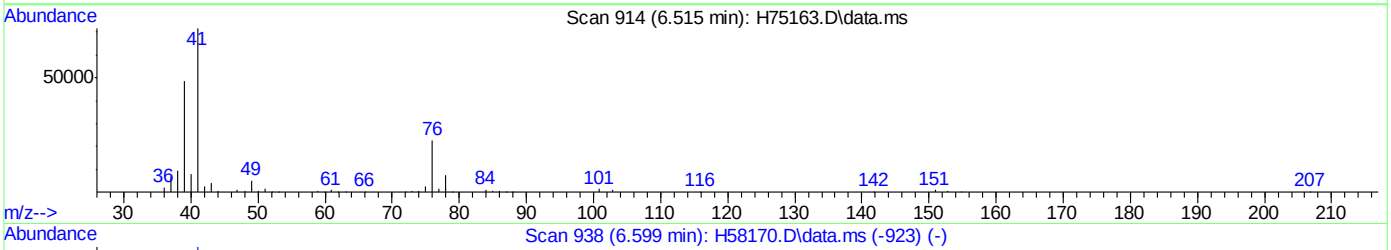
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

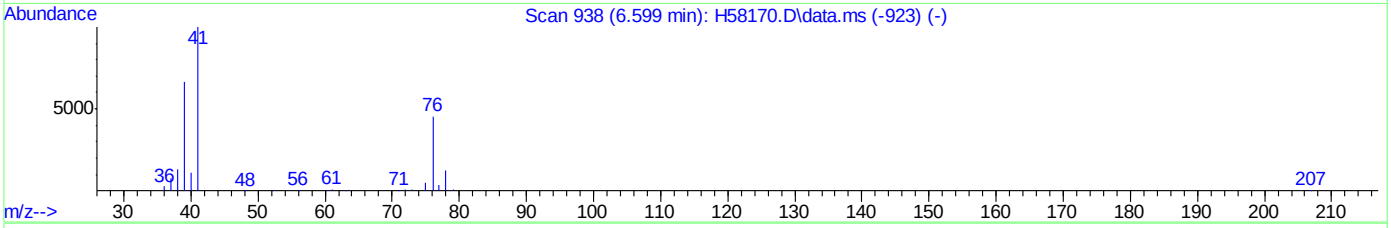
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 41.64ug/L m

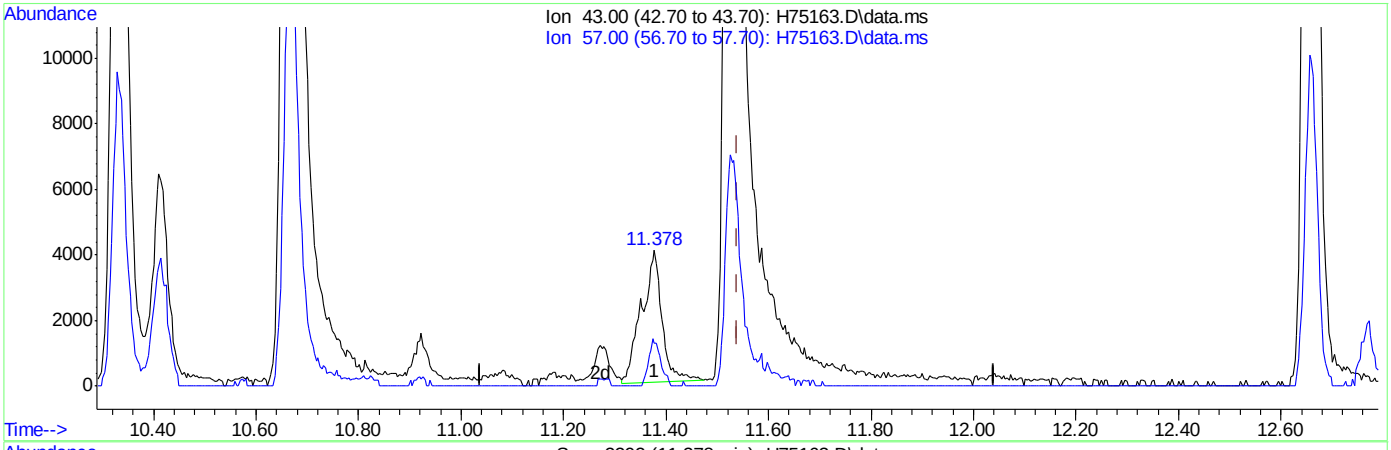
response 169021

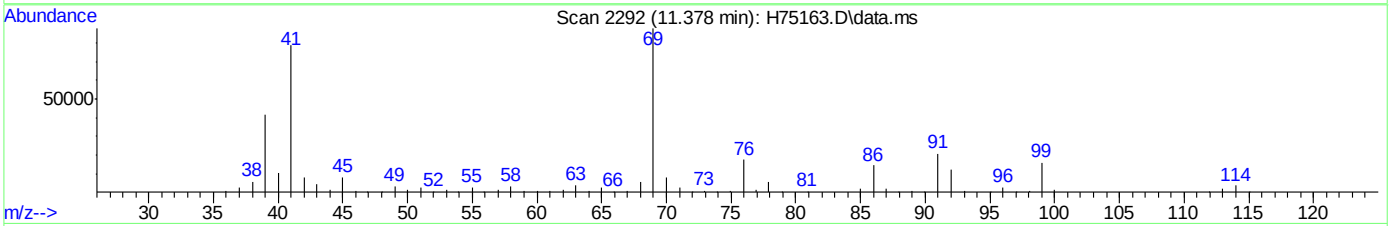
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

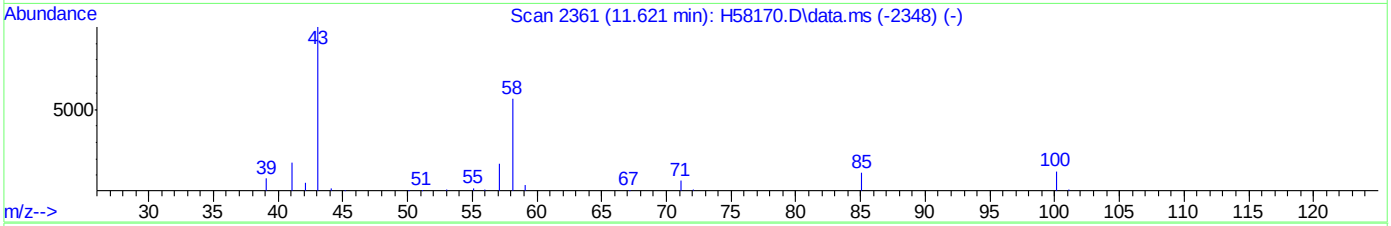
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.378min (-0.162) 6.29ug/L

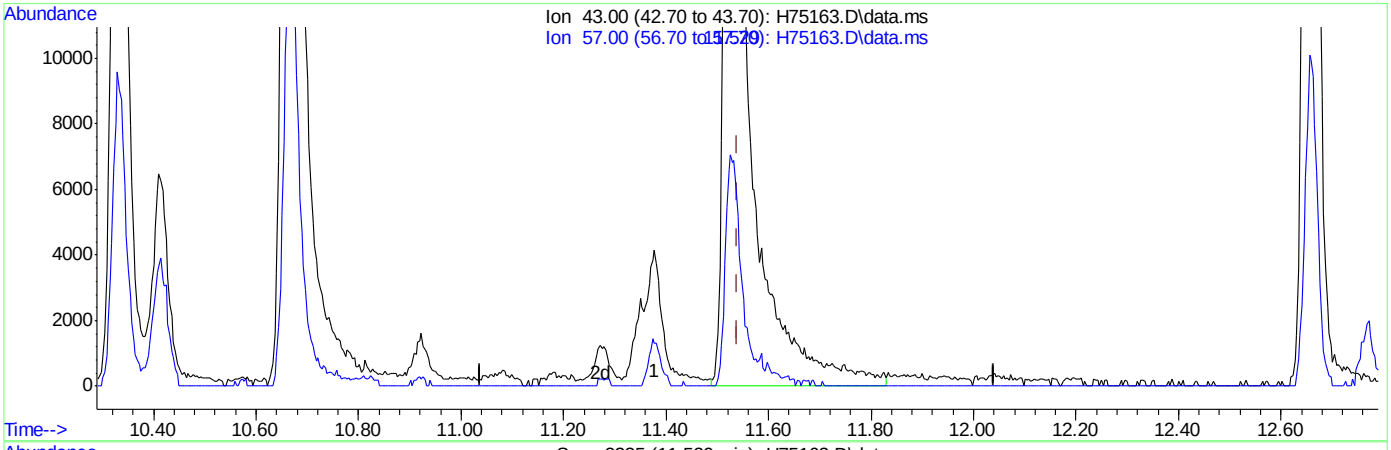
response 11100

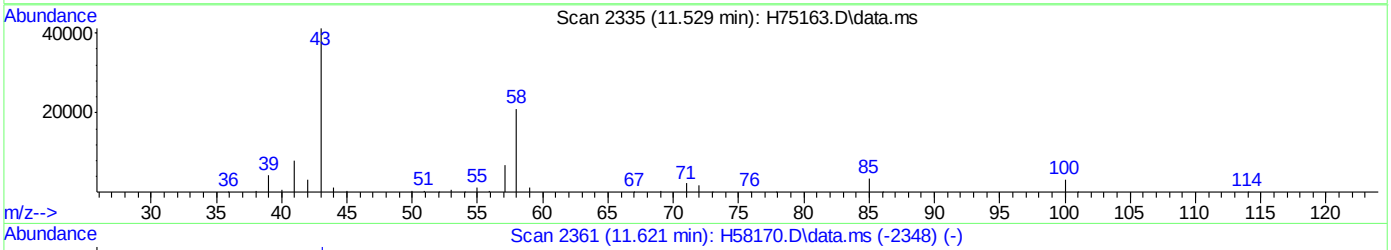
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	21.07
0.00	0.00	0.00
0.00	0.00	0.00

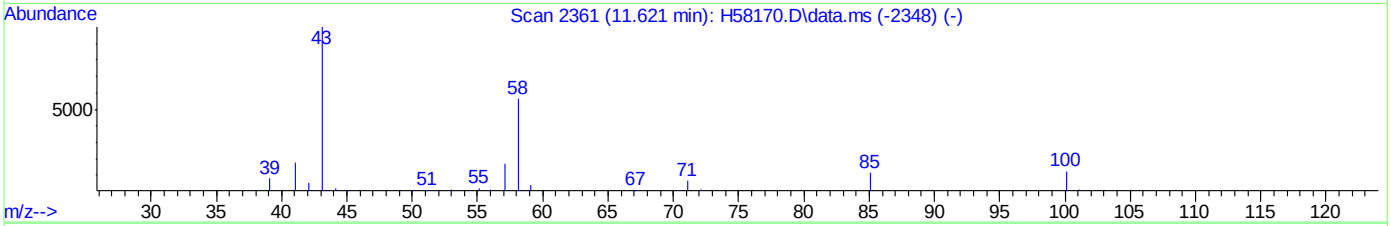
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.529min (-0.010) 59.07ug/L m

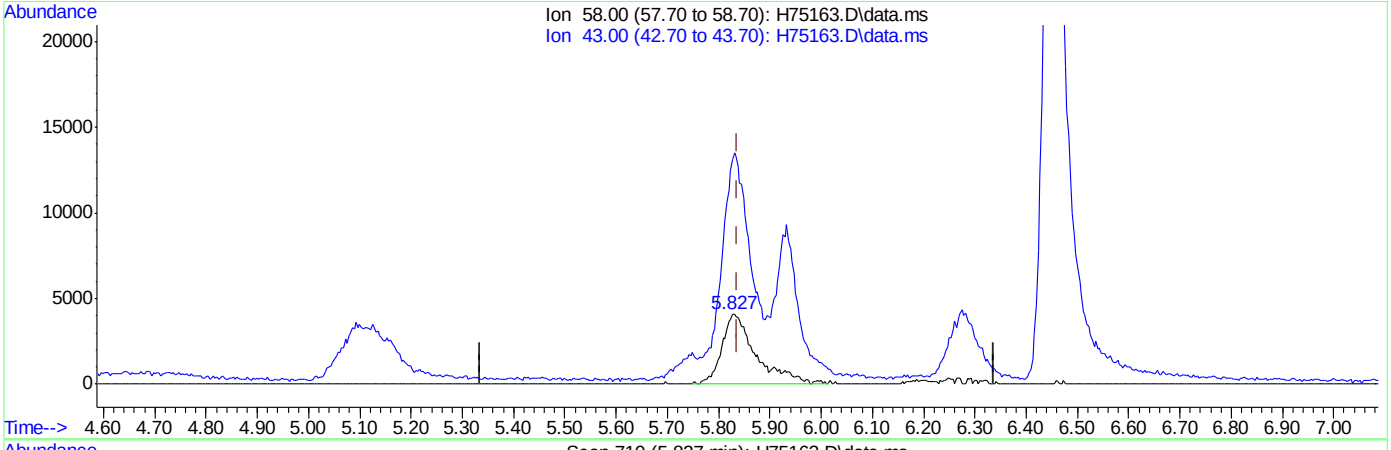
response 104156

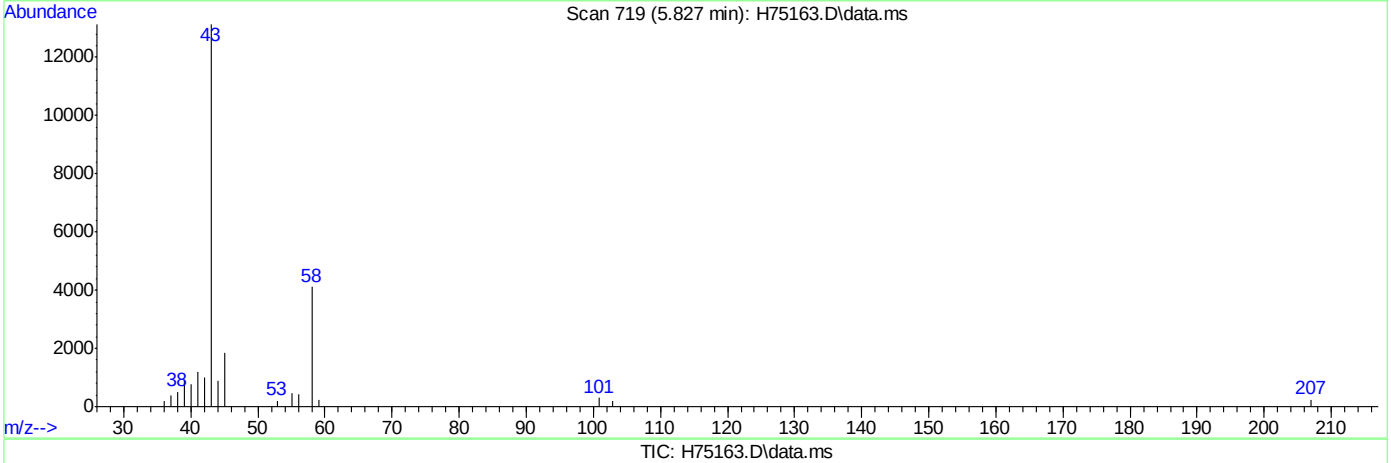
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	2.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 78.37ug/L

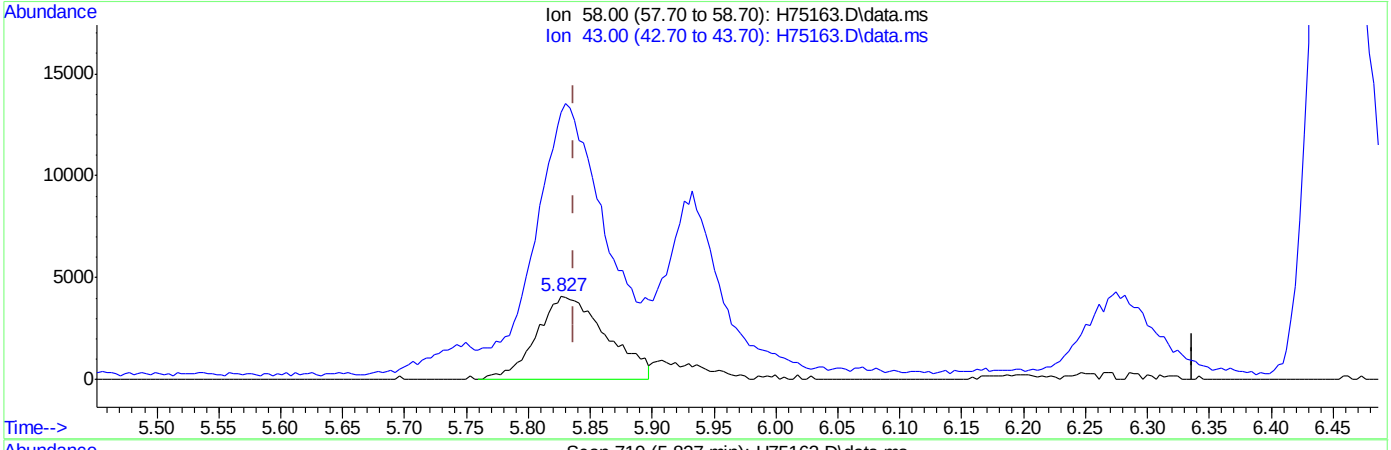
response 19075

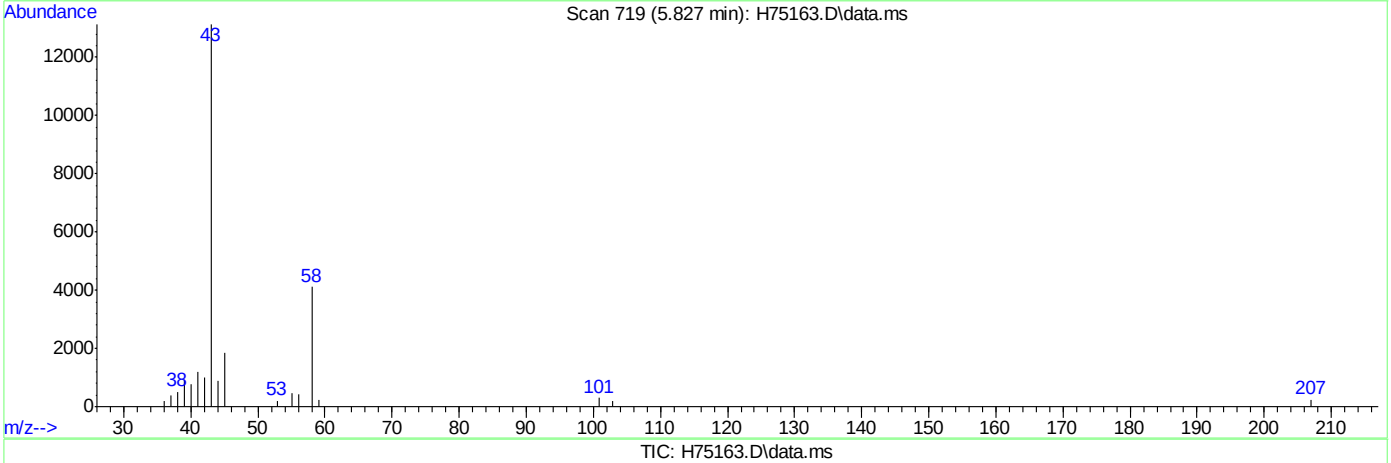
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	298.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 66.23ug/L m

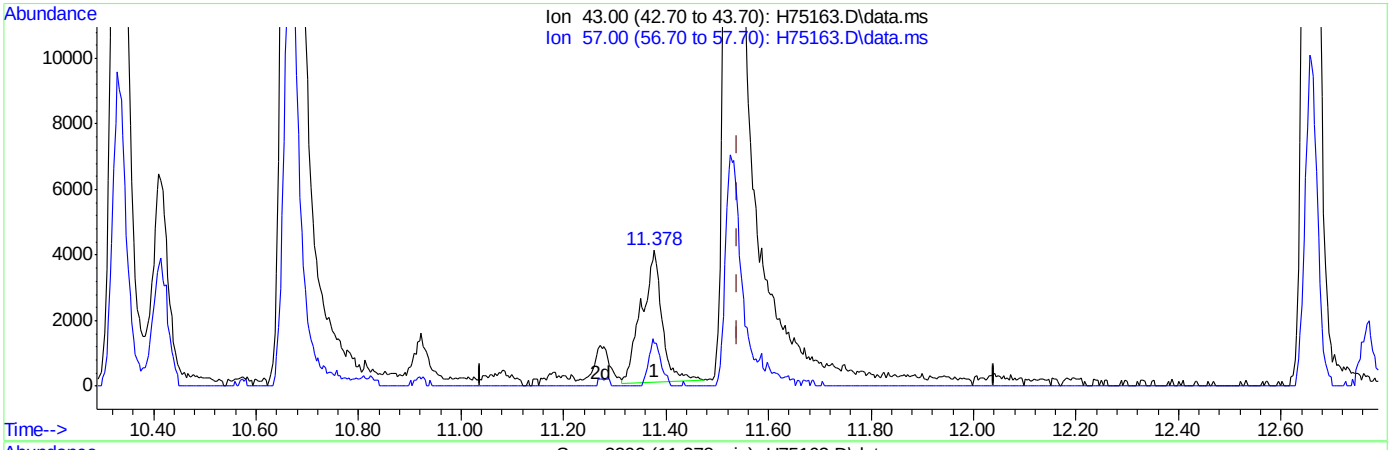
response 16121

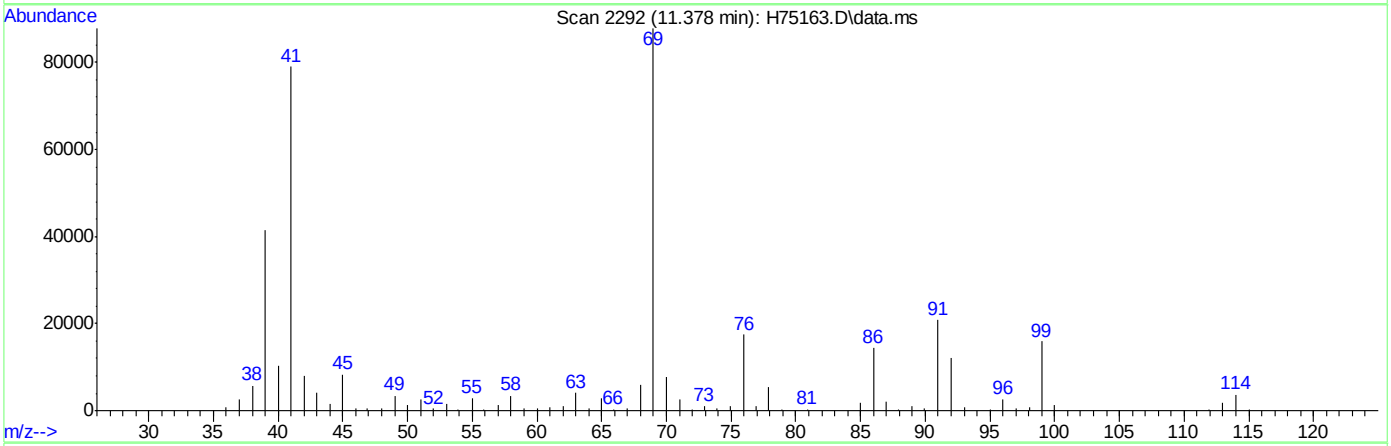
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.378min (-0.162) 6.29ug/L

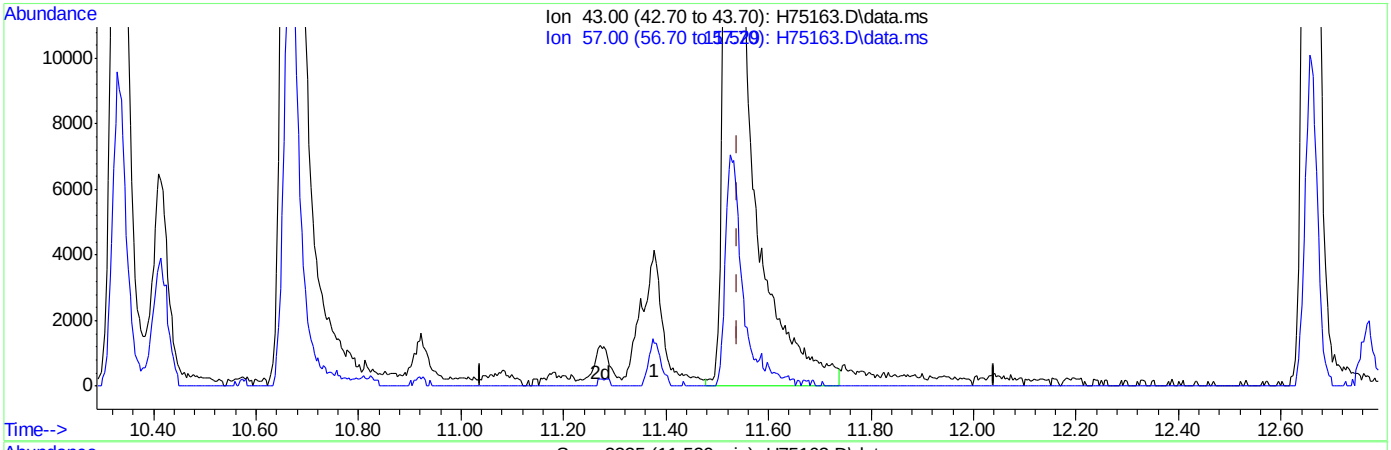
response 11100

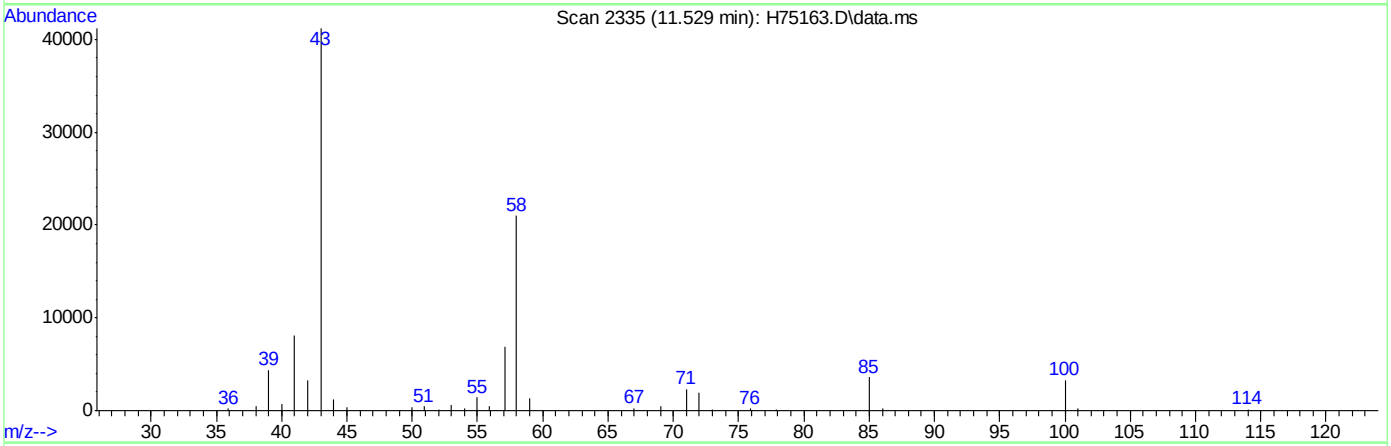
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	21.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





(71) 2-hexanone (p)

11.529min (-0.010) 57.85ug/L m

response 102002

Ion	Exp%	Act%
43.00	100	100
57.00	18.40	2.29
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/05/15 17:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:45:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	73457	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	177995	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	282410	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	177774	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	159505	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	90818	50.46	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.92%			
60) toluene-d8 (s)	11.275	98	347921	50.79	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.58%			
82) bromofluorobenzene (s)	13.964	95	153495	48.58	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.16%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.275	59	83767	493.77	ug/L	100
3) Ethanol	5.100	45	111947	5008.95	ug/L	97
5) dichlorodifluoromethane	4.024	85	138738	72.54	ug/L	97
6) chloromethane	4.267	50	93943	56.48	ug/L	100
7) vinyl chloride	4.500	62	115237	62.50	ug/L	95
8) bromomethane	4.959	96	57482	52.07	ug/L	95
9) chloroethane	5.103	64	66048	58.27	ug/L	100
11) trichlorofluoromethane	5.693	101	169579	60.93	ug/L	100
12) freon-113	6.462	101	75542	42.81	ug/L	93
13) acrolein	5.700	56	21849	273.65	ug/L	92
14) 1,1-dichloroethene	6.268	96	67144	43.92	ug/L #	74
15) acetone	5.837	58	8234m	43.50	ug/L	
16) ethyl ether	5.929	59	66618	43.65	ug/L	88
17) methyl acetate	6.451	43	74422	42.81	ug/L	87
18) methylene chloride	6.444	84	87478	45.24	ug/L #	71
19) methyl tert butyl ether	7.196	73	218057	45.88	ug/L	89
20) acrylonitrile	6.328	53	34827	49.82	ug/L	95
21) allyl chloride	6.511	41	145523	46.10	ug/L	86
22) trans-1,2-dichloroethene	7.104	96	74433	43.70	ug/L #	80
23) iodomethane	6.356	142	110203	40.26	ug/L	93
24) carbon disulfide	6.691	76	236812	42.37	ug/L	97
25) propionitrile	7.369	54	11958	47.24	ug/L	100
26) vinyl acetate	7.457	43	160907	47.99	ug/L	91
27) chloroprene	7.718	53	134316	45.63	ug/L	98
28) di-isopropyl ether	7.761	45	307217	48.96	ug/L	89
29) methacrylonitrile	7.870	41	57030	47.29	ug/L	94
30) 2-butanone	7.768	72	10145	47.54	ug/L #	46
31) 1,1-dichloroethane	7.355	63	160011	45.92	ug/L	96
32) tert-butyl ethyl ether	8.156	59	277959	47.63	ug/L	90
33) Hexane	7.743	41	146312	45.69	ug/L #	91
34) isobutyl alcohol	8.156	43	42166	274.51	ug/L	88
35) 2,2-dichloropropane	8.212	77	129698	50.58	ug/L	96
36) cis-1,2-dichloroethene	7.923	96	87263	46.60	ug/L	86
37) ethyl acetate	8.156	43	38845	49.91	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:45:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.089	128	42167	46.15 ug/L #	51
39) chloroform	8.128	83	158988	47.48 ug/L	97
41) 1,1,1-trichloroethane	8.876	97	129824	48.71 ug/L	92
43) cyclohexane	9.158	56	143382	42.84 ug/L #	78
44) carbon tetrachloride	9.239	117	108643	49.10 ug/L	99
45) 1,1-dichloropropene	9.052	75	109086	44.70 ug/L	92
46) benzene	9.274	78	329485	45.89 ug/L	99
47) tetrahydrofuran	8.459	42	26251	43.90 ug/L	91
48) 1,2-dichloroethane	8.773	62	126169	47.10 ug/L	99
49) tert-amyl methyl ether	9.401	73	232212	47.58 ug/L	91
50) heptane	9.761	43	109080	43.16 ug/L	92
51) trichloroethene	9.896	95	95181	50.58 ug/L	77
52) 1,2-dichloropropane	9.860	63	92417	46.34 ug/L	96
53) dibromomethane	9.836	93	57304	47.92 ug/L	97
54) bromodichloromethane	9.948	83	119339	49.85 ug/L	97
55) methylcyclohexane	10.414	83	131980	43.19 ug/L	86
56) 2-chloroethyl vinyl ether	10.333	63	63974	49.63 ug/L	87
57) methyl methacrylate	10.054	69	58043	46.49 ug/L	90
58) 1,4-dioxane	10.054	88	3455	206.89 ug/L	94
59) cis-1,3-dichloropropene	10.570	75	136637	51.13 ug/L	89
61) 4-methyl-2-pentanone	10.665	43	93835	46.35 ug/L	93
62) toluene	11.346	92	203199	46.33 ug/L	99
63) trans-1,3-dichloropropene	10.993	75	132310	48.98 ug/L	98
64) 1,1,2-trichloroethane	11.162	83	69829	47.84 ug/L	91
65) ethyl methacrylate	11.378	69	115474	48.32 ug/L	97
67) tetrachloroethene	12.087	166	91540	43.19 ug/L	93
68) 1,3-dichloropropane	11.399	76	140473	44.13 ug/L	98
69) dibromochloromethane	11.685	129	86429	41.25 ug/L	99
70) 1,2-dibromoethane	11.935	107	83219	44.39 ug/L	92
71) 2-hexanone	11.529	43	70853	46.06 ug/L	93
72) chlorobenzene	12.768	112	244802	43.39 ug/L	88
73) 1,1,1,2-tetrachloroethane	12.687	131	81697	46.81 ug/L	95
74) ethylbenzene	12.948	91	416142	45.98 ug/L	96
75) m,p-xylene	13.135	106	323553	95.28 ug/L	98
76) o-xylene	13.541	106	163397	46.90 ug/L	100
77) styrene	13.470	104	259979	44.36 ug/L	97
78) bromoform	13.290	173	54817	46.62 ug/L	98
79) trans-1,4-dichloro-2-b...	13.703	53	31747	46.88 ug/L	94
81) isopropylbenzene	13.908	105	406495	43.89 ug/L	99
83) bromobenzene	14.190	156	109546	42.80 ug/L	85
84) 1,1,2,2-tetrachloroethane	13.548	83	99268	43.96 ug/L	94
85) 1,2,3-trichloropropane	13.696	75	122545	47.79 ug/L	95
86) n-propylbenzene	14.352	91	487340	44.61 ug/L	93
87) 2-chlorotoluene	14.469	91	293291	44.89 ug/L	90
88) 4-chlorotoluene	14.546	91	310846	45.22 ug/L	91
89) 1,3,5-trimethylbenzene	14.635	105	343341	47.18 ug/L	99
90) tert-butylbenzene	14.938	91	202946	45.76 ug/L	88
91) 1,2,4-trimethylbenzene	15.044	105	352130	48.23 ug/L	98
92) sec-butylbenzene	15.160	105	432642	45.87 ug/L	99
93) 1,3-dichlorobenzene	15.259	146	202522	46.76 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:45:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) p-isopropyltoluene	15.337	119	370351	46.70 ug/L	96
95) 1,4-dichlorobenzene	15.330	146	218845	46.32 ug/L	98
96) 1,2-dichlorobenzene	15.693	146	191102	48.58 ug/L	99
97) n-butylbenzene	15.757	91	340532	48.44 ug/L	90
98) 1,2-dibromo-3-chloropr...	16.177	75	11206	49.90 ug/L	82
99) 1,3,5-trichlorobenzene	16.992	180	117574	48.65 ug/L	95
100) 1,2,4-trichlorobenzene	17.549	180	62928	50.97 ug/L	95
101) hexachlorobutadiene	17.849	225	45827	50.07 ug/L	98
102) naphthalene	17.821	128	95991	52.01 ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	62928	50.97 ug/L	97

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

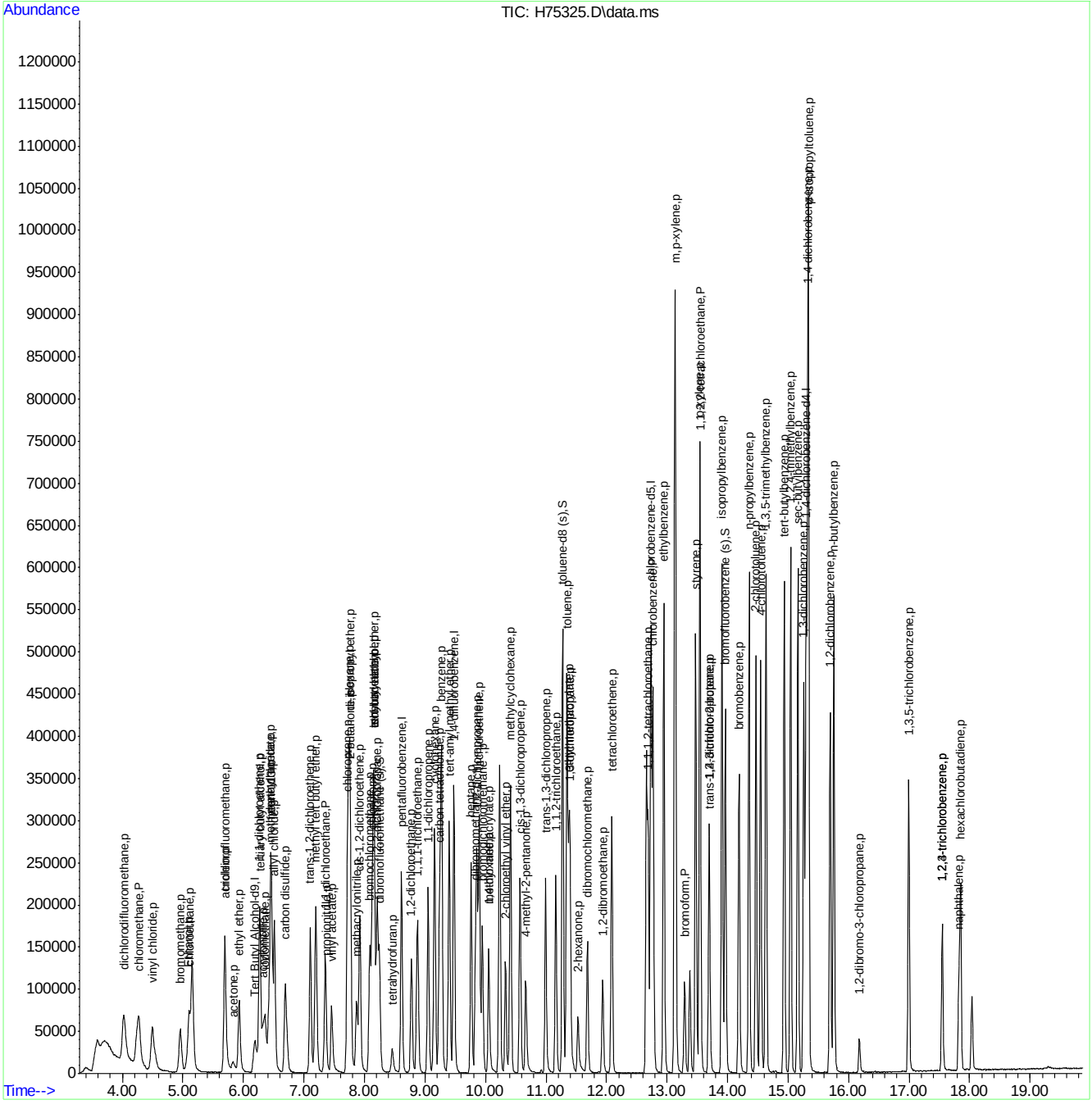
7.6.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

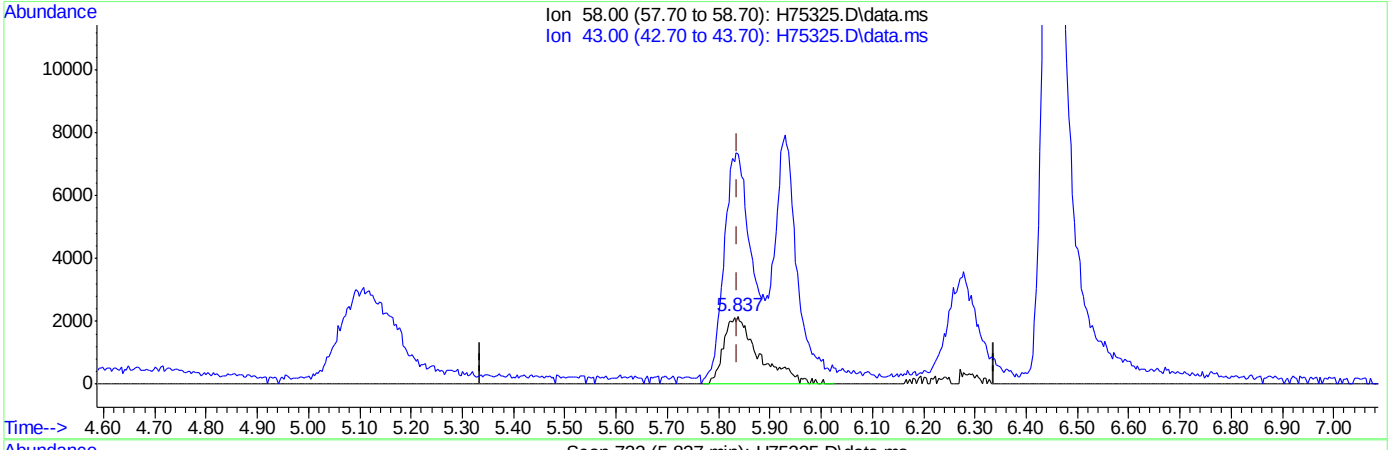
Quant Time: Oct 05 10:45:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

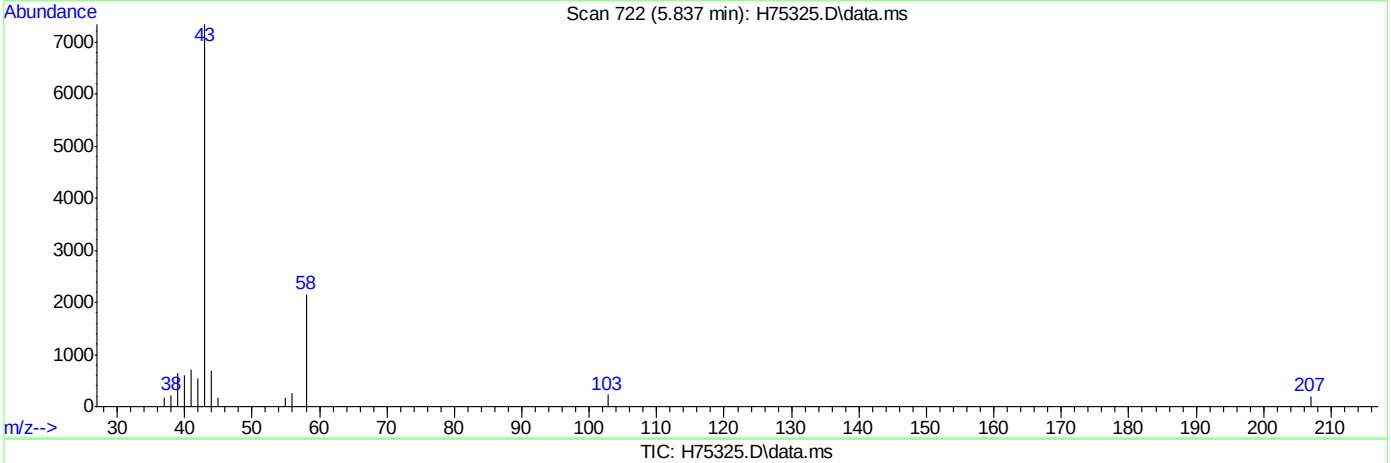


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:44:36 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration





TIC: H75325.D\data.ms

(15) acetone (p)

5.837min (+0.000) 54.52ug/L

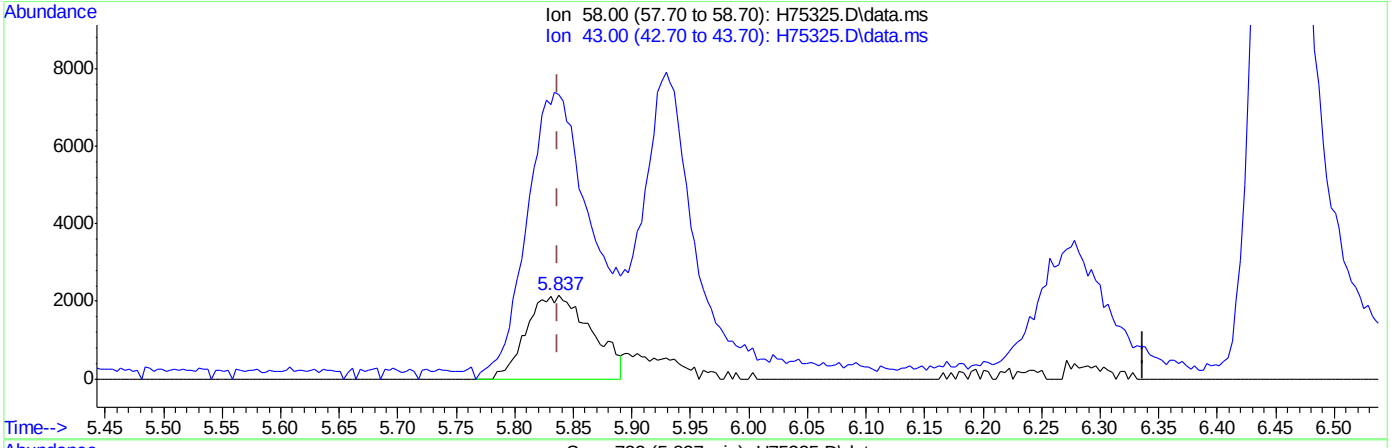
response 10320

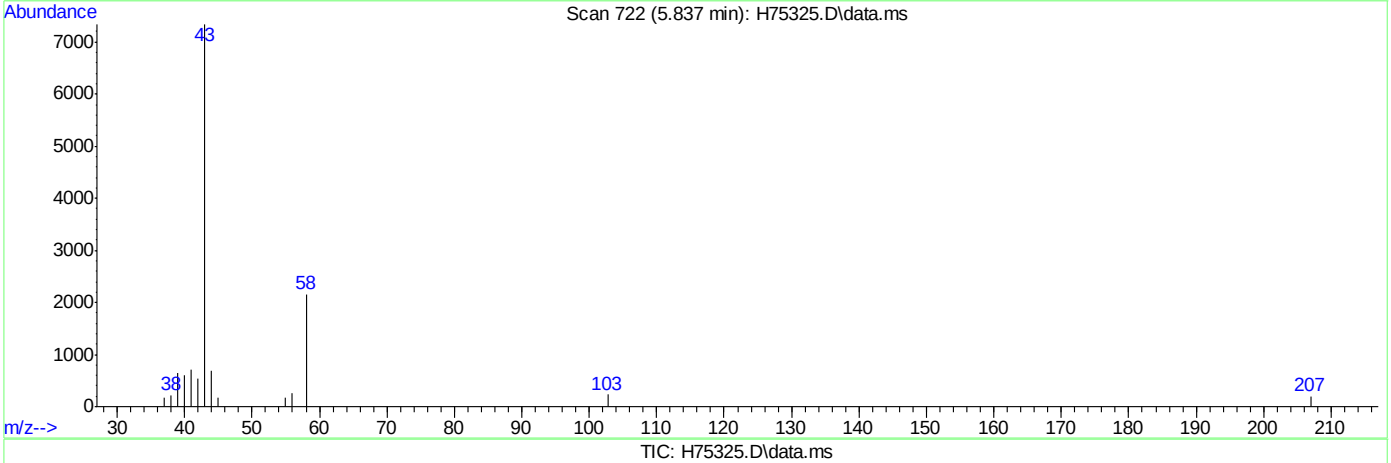
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	333.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75325.D
Acq On : 5 Oct 2015 10:20 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35328,msh2507,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 05 10:44:36 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration





TIC: H75325.D\data.ms

(15) acetone (p)

5.837min (+0.000) 43.50ug/L m

response 8234

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	340.19#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/06/15 16:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:17:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.196	65	75369	500.00	ug/L	0.00
4) pentafluorobenzene	8.613	168	185293	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.477	114	288666	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	176212	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	157433	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	95088	50.75	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.50%			
60) toluene-d8 (s)	11.274	98	359241	51.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.60%			
82) bromofluorobenzene (s)	13.963	95	156118	50.06	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.12%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.273	59	82557	474.29	ug/L	95
3) Ethanol	5.105	45	113517	4951.41	ug/L	97
5) dichlorodifluoromethane	4.025	85	131721	66.13	ug/L	98
6) chloromethane	4.272	50	97311	56.18	ug/L	95
7) vinyl chloride	4.498	62	120196	62.63	ug/L	100
8) bromomethane	4.957	96	63409	55.22	ug/L	96
9) chloroethane	5.105	64	64547	54.71	ug/L	99
11) trichlorofluoromethane	5.695	101	161260	55.67	ug/L	99
12) freon-113	6.464	101	74879	40.76	ug/L	91
13) acrolein	5.698	56	22965	276.30	ug/L	92
14) 1,1-dichloroethene	6.273	96	68157	42.83	ug/L #	77
15) acetone	5.829	58	8332m	42.29	ug/L	
16) ethyl ether	5.934	59	71197	44.82	ug/L	87
17) methyl acetate	6.457	43	74963	41.42	ug/L	88
18) methylene chloride	6.446	84	88607	44.01	ug/L #	68
19) methyl tert butyl ether	7.198	73	221789	44.83	ug/L	88
20) acrylonitrile	6.326	53	34538	47.46	ug/L	99
21) allyl chloride	6.517	41	147129m	44.78	ug/L	
22) trans-1,2-dichloroethene	7.110	96	77544	43.74	ug/L	85
23) iodomethane	6.361	142	120264	42.20	ug/L	89
24) carbon disulfide	6.693	76	237551	40.83	ug/L	98
25) propionitrile	7.374	54	11183	42.95	ug/L	100
26) vinyl acetate	7.459	43	152270	43.63	ug/L	92
27) chloroprene	7.720	53	138849	45.32	ug/L	99
28) di-isopropyl ether	7.762	45	309219	47.34	ug/L	89
29) methacrylonitrile	7.872	41	54340	43.29	ug/L	92
30) 2-butanone	7.769	72	10042	45.20	ug/L #	68
31) 1,1-dichloroethane	7.353	63	163281	45.02	ug/L	94
32) tert-butyl ethyl ether	8.158	59	284342	46.80	ug/L	91
33) Hexane	7.745	41	141843	42.55	ug/L	89
34) isobutyl alcohol	8.154	43	38517	238.44	ug/L #	76
35) 2,2-dichloropropane	8.211	77	115150	43.13	ug/L	93
36) cis-1,2-dichloroethene	7.928	96	88494	45.39	ug/L	86
37) ethyl acetate	8.154	43	36759	45.00	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:17:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.091	128	42081	44.24 ug/L #	54
39) chloroform	8.129	83	158288	45.41 ug/L	99
41) 1,1,1-trichloroethane	8.878	97	126976	45.76 ug/L	94
43) cyclohexane	9.160	56	147313	43.06 ug/L #	79
44) carbon tetrachloride	9.241	117	107023	47.32 ug/L	96
45) 1,1-dichloropropene	9.054	75	109414	43.86 ug/L	92
46) benzene	9.273	78	325383	44.33 ug/L	100
47) tetrahydrofuran	8.454	42	26510	43.37 ug/L	85
48) 1,2-dichloroethane	8.775	62	121667	44.43 ug/L	99
49) tert-amyl methyl ether	9.400	73	231446	46.39 ug/L	90
50) heptane	9.760	43	107859	41.75 ug/L	90
51) trichloroethene	9.897	95	89039	46.30 ug/L	80
52) 1,2-dichloropropane	9.859	63	91997	45.13 ug/L	95
53) dibromomethane	9.834	93	55794	45.65 ug/L	97
54) bromodichloromethane	9.947	83	117041	47.83 ug/L	96
55) methylcyclohexane	10.413	83	134816	43.16 ug/L	87
56) 2-chloroethyl vinyl ether	10.331	63	64403	48.88 ug/L	88
57) methyl methacrylate	10.056	69	59417	46.56 ug/L	90
58) 1,4-dioxane	10.060	88	3652	212.92 ug/L	100
59) cis-1,3-dichloropropene	10.571	75	136180	49.85 ug/L	88
61) 4-methyl-2-pentanone	10.667	43	94277	45.56 ug/L	91
62) toluene	11.348	92	204187	45.54 ug/L	99
63) trans-1,3-dichloropropene	10.995	75	129636	46.99 ug/L	97
64) 1,1,2-trichloroethane	11.161	83	69412	46.52 ug/L	91
65) ethyl methacrylate	11.376	69	115819	47.41 ug/L	92
67) tetrachloroethene	12.089	166	90323	42.99 ug/L	91
68) 1,3-dichloropropane	11.397	76	138408	43.86 ug/L	97
69) dibromochloromethane	11.686	129	85876	41.35 ug/L	98
70) 1,2-dibromoethane	11.937	107	81342	43.77 ug/L	91
71) 2-hexanone	11.531	43	66596	43.67 ug/L	94
72) chlorobenzene	12.766	112	239576	42.84 ug/L	91
73) 1,1,1,2-tetrachloroethane	12.689	131	80849	46.73 ug/L	93
74) ethylbenzene	12.946	91	409452	45.64 ug/L	96
75) m,p-xylene	13.133	106	315890	93.85 ug/L	99
76) o-xylene	13.543	106	159569	46.20 ug/L	97
77) styrene	13.472	104	256044	44.08 ug/L	97
78) bromoform	13.289	173	55422	47.50 ug/L	99
79) trans-1,4-dichloro-2-b...	13.698	53	29918	44.75 ug/L #	78
81) isopropylbenzene	13.910	105	398172	43.56 ug/L	99
83) bromobenzene	14.192	156	108101	42.79 ug/L	85
84) 1,1,2,2-tetrachloroethane	13.546	83	99266	44.54 ug/L	96
85) 1,2,3-trichloropropane	13.694	75	116442	46.01 ug/L	95
86) n-propylbenzene	14.354	91	475736	44.12 ug/L	95
87) 2-chlorotoluene	14.471	91	284551	44.13 ug/L	89
88) 4-chlorotoluene	14.545	91	301843	44.49 ug/L	91
89) 1,3,5-trimethylbenzene	14.637	105	333641	46.45 ug/L	99
90) tert-butylbenzene	14.936	91	197380	45.09 ug/L	90
91) 1,2,4-trimethylbenzene	15.042	105	341147	47.34 ug/L	99
92) sec-butylbenzene	15.162	105	427048	45.87 ug/L	99
93) 1,3-dichlorobenzene	15.261	146	192688	45.07 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:17:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) p-isopropyltoluene	15.335	119	361906	46.23 ug/L	97
95) 1,4-dichlorobenzene	15.328	146	208450	44.70 ug/L	99
96) 1,2-dichlorobenzene	15.695	146	183926	47.37 ug/L	98
97) n-butylbenzene	15.755	91	331051	47.71 ug/L	90
98) 1,2-dibromo-3-chloropr...	16.182	75	10764	48.56 ug/L	90
99) 1,3,5-trichlorobenzene	16.994	180	113531	47.60 ug/L	96
100) 1,2,4-trichlorobenzene	17.548	180	61986	50.85 ug/L	98
101) hexachlorobutadiene	17.851	225	44511	49.11 ug/L	98
102) naphthalene	17.823	128	96590	53.17 ug/L	100
103) 1,2,3-trichlorobenzene	17.548	180	61986	50.85 ug/L	100

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

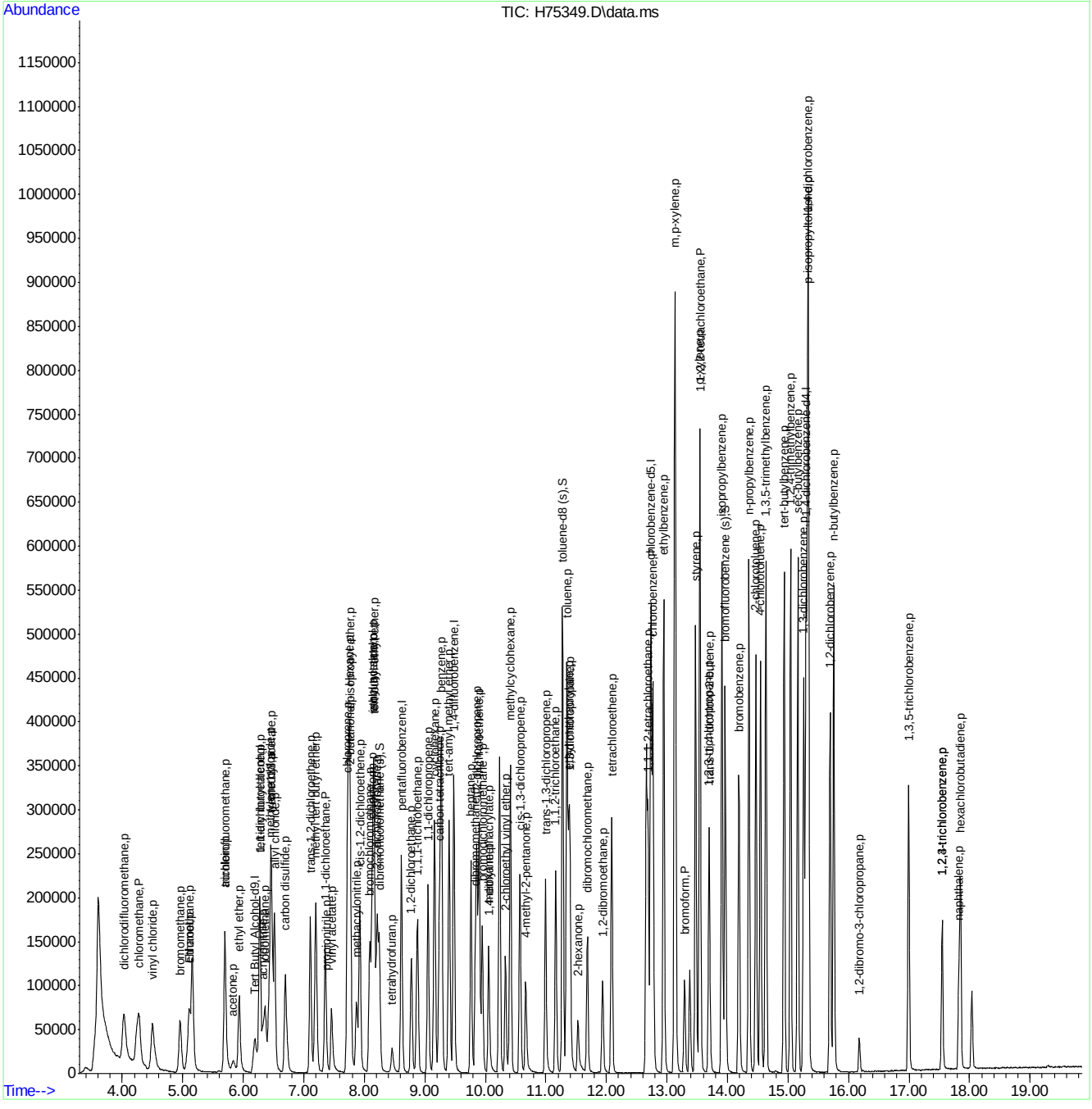
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:17:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

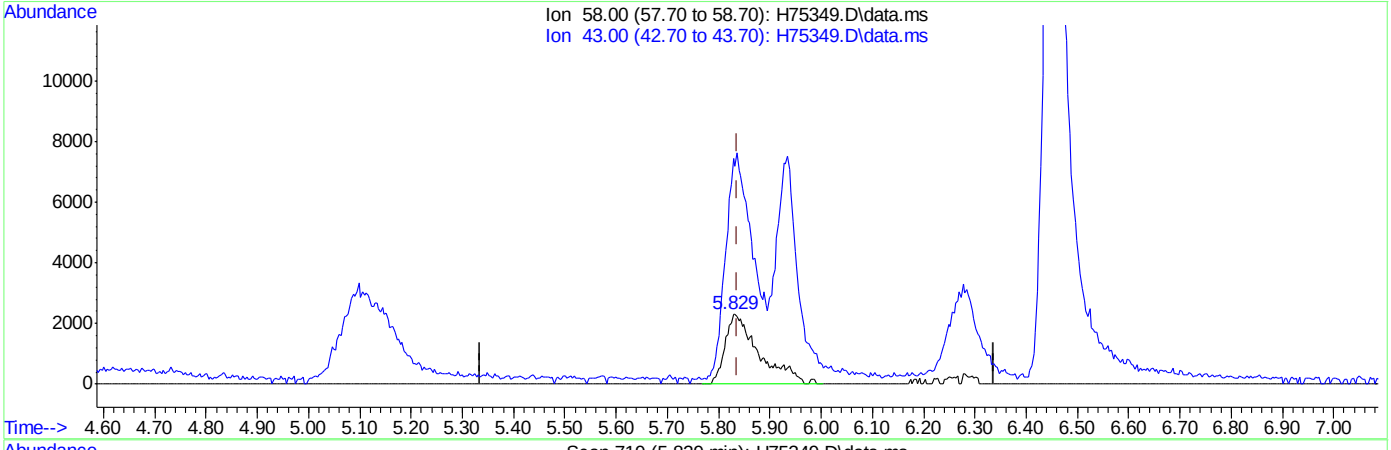


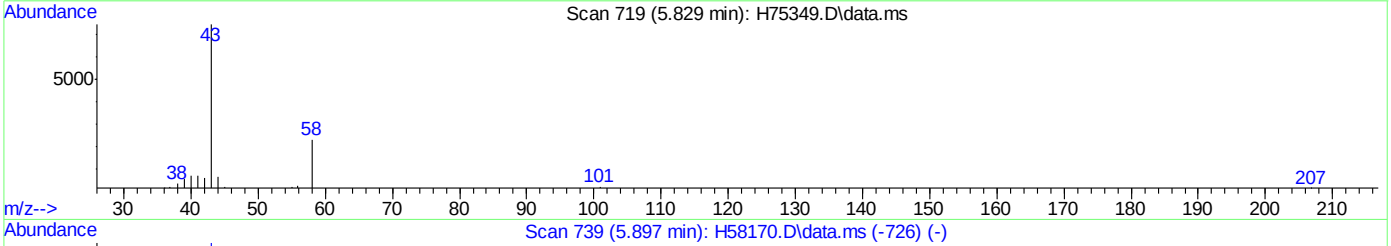
ACCUTEST LABORATORIES MC41696

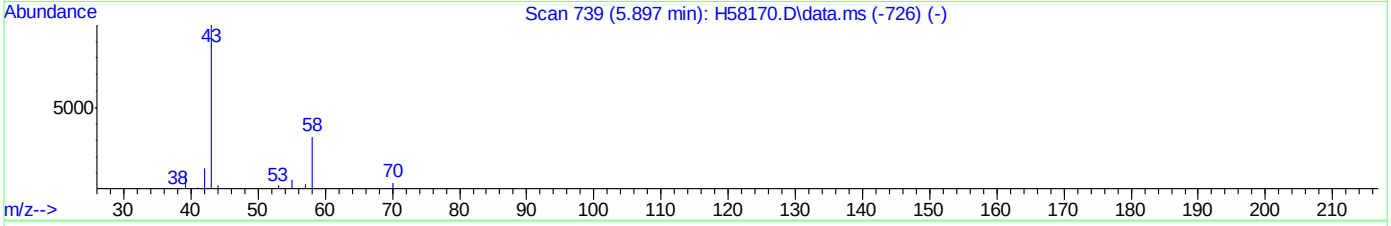
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:16:30 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75349.D\data.ms

(15) acetone (p)

5.829min (-0.008) 53.88ug/L

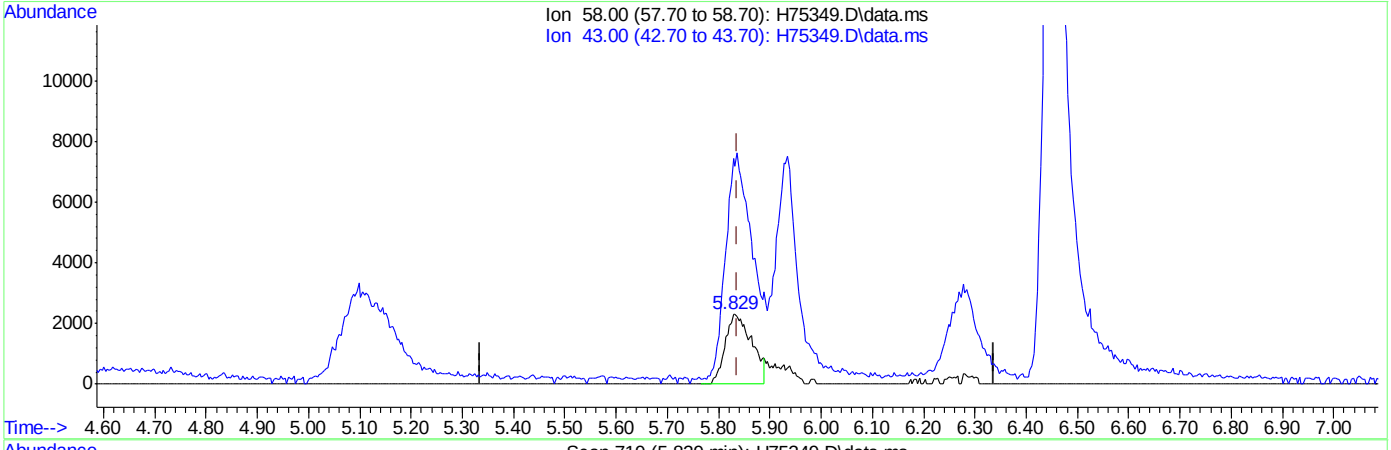
response 10616

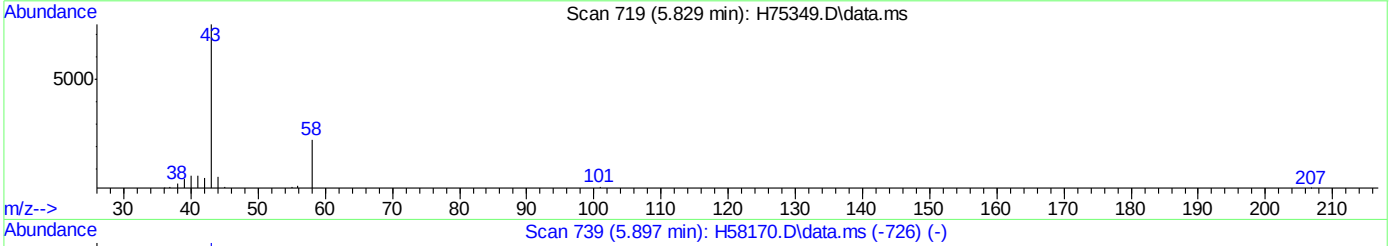
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	314.38
0.00	0.00	0.00
0.00	0.00	0.00

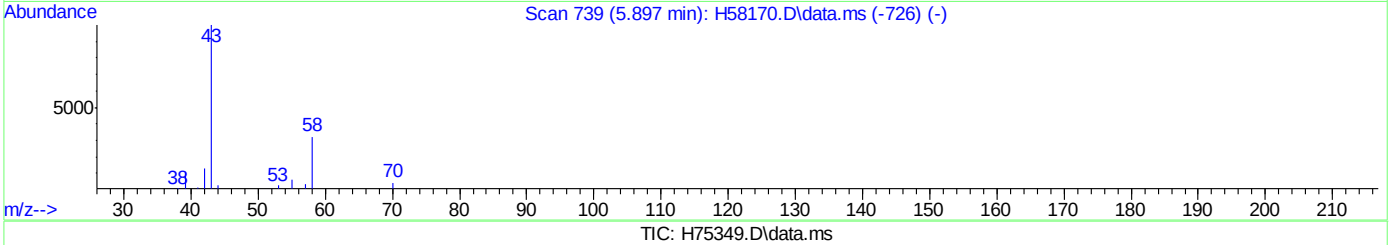
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:16:30 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75349.D\data.ms

(15) acetone (p)

5.829min (-0.008) 42.29ug/L m

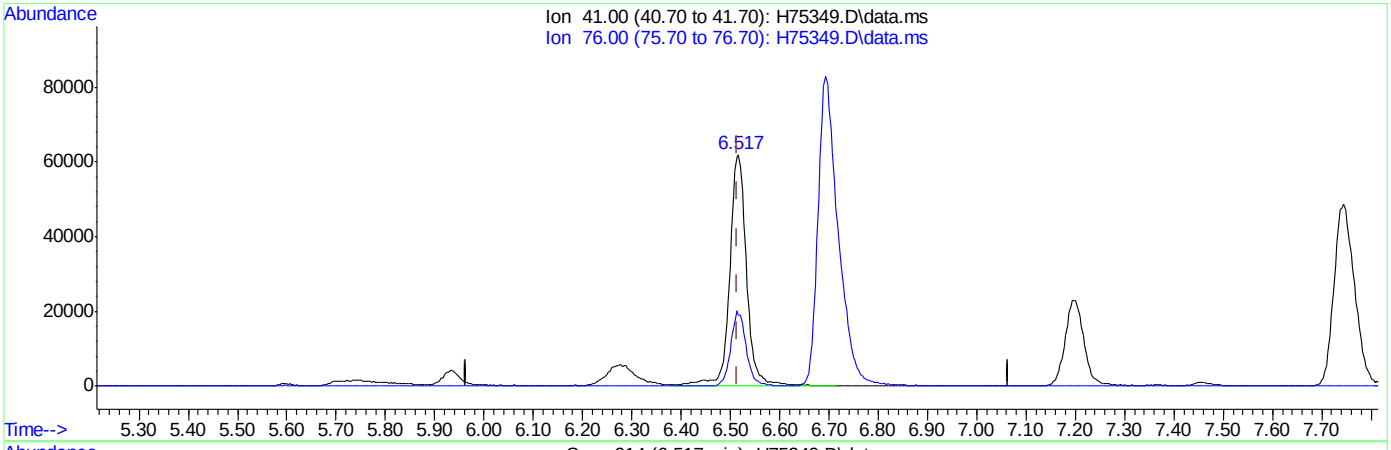
response 8332

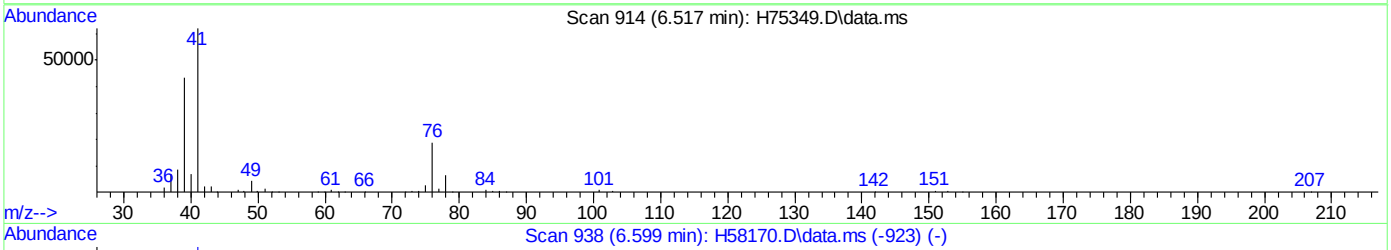
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	321.61
0.00	0.00	0.00
0.00	0.00	0.00

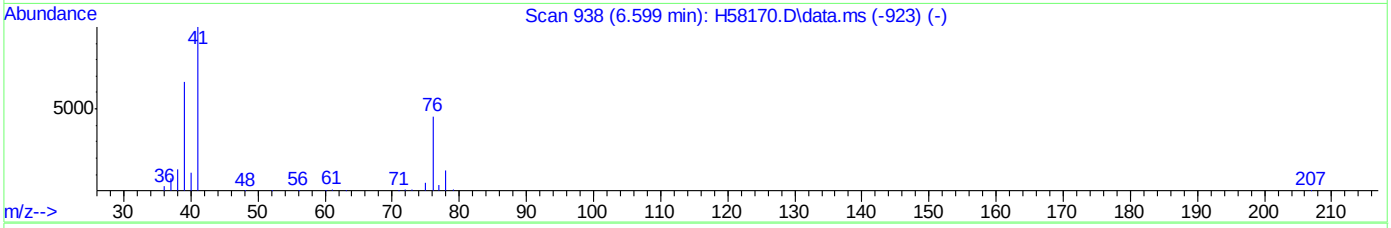
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:16:30 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75349.D\data.ms

(21) allyl chloride (p)

6.517min (+0.002) 45.20ug/L

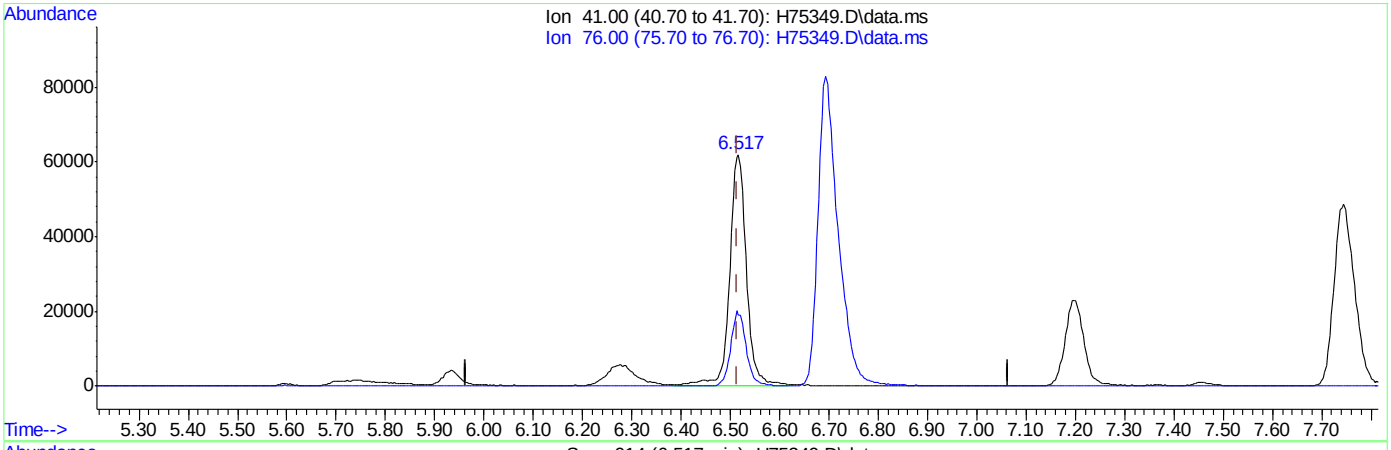
response 148537

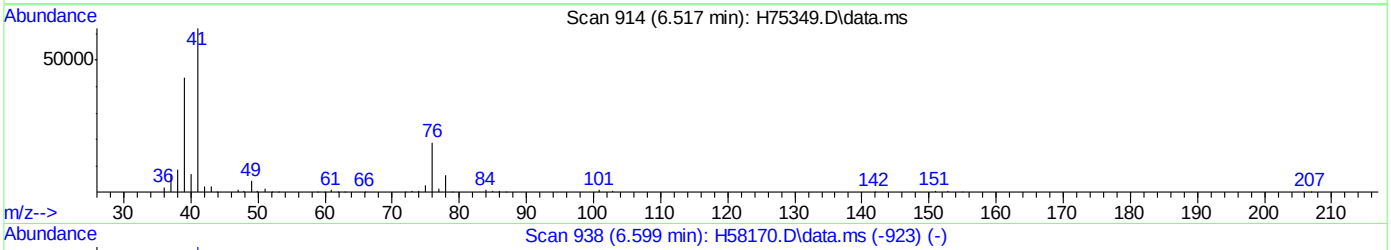
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.56
0.00	0.00	0.00
0.00	0.00	0.00

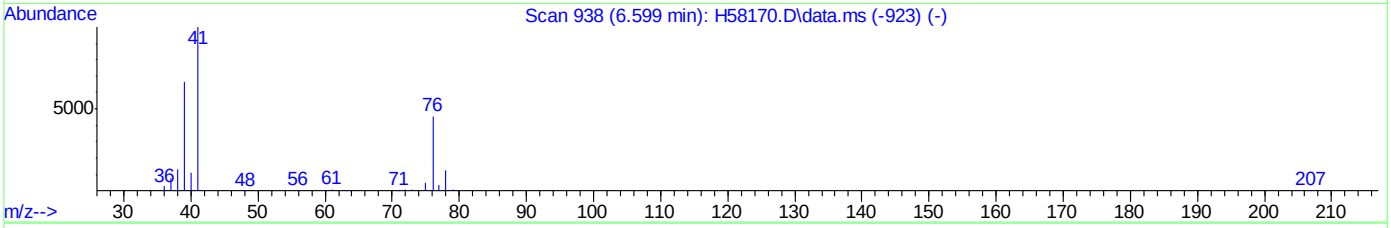
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151005\
Data File : H75349.D
Acq On : 5 Oct 2015 9:05 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35361,msh2507,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 06 08:16:30 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75349.D\data.ms

(21) allyl chloride (p)

6.517min (+0.002) 44.78ug/L m

response 147129

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.56
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/06/15 16:13

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.195	65	79084	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	200835	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	313209	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	190481	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	168223	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	100729	49.60	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.20%			
60) toluene-d8 (s)	11.276	98	387747	51.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.08%			
82) bromofluorobenzene (s)	13.962	95	164620	49.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.280	59	83664	458.07	ug/L	94
3) Ethanol	5.104	45	95330	3980.96	ug/L	98
5) dichlorodifluoromethane	4.028	85	89590	41.38	ug/L	98
6) chloromethane	4.272	50	99831	53.01	ug/L	97
7) vinyl chloride	4.494	62	117055	56.07	ug/L	100
8) bromomethane	4.956	96	69951	56.22	ug/L	97
9) chloroethane	5.112	64	73970	57.84	ug/L	98
11) trichlorofluoromethane	5.697	101	160061	50.99	ug/L	100
12) freon-113	6.467	101	90726	45.56	ug/L	91
13) acrolein	5.687	56	57381	636.95	ug/L	92
14) 1,1-dichloroethene	6.269	96	86664	50.24	ug/L #	75
15) acetone	5.835	58	11935m	55.88	ug/L	
16) ethyl ether	5.934	59	82598	47.97	ug/L	86
17) methyl acetate	6.452	43	101826	51.91	ug/L	88
18) methylene chloride	6.449	84	105759	48.47	ug/L #	75
19) methyl tert butyl ether	7.201	73	264010	49.23	ug/L	87
20) acrylonitrile	6.325	53	39919	50.61	ug/L	91
21) allyl chloride	6.512	41	173266m	48.65	ug/L	
22) trans-1,2-dichloroethene	7.105	96	94319	49.08	ug/L	83
23) iodomethane	6.361	142	147540	47.77	ug/L	90
24) carbon disulfide	6.692	76	284381	45.10	ug/L	99
25) propionitrile	7.373	54	13184	46.27	ug/L	100
26) vinyl acetate	7.455	43	215251	56.90	ug/L	93
27) chloroprene	7.719	53	154444	46.50	ug/L	99
28) di-isopropyl ether	7.762	45	352163	49.74	ug/L	90
29) methacrylonitrile	7.871	41	62165	45.69	ug/L	93
30) 2-butanone	7.772	72	13144	54.59	ug/L #	93
31) 1,1-dichloroethane	7.356	63	183246	46.61	ug/L	95
32) tert-butyl ethyl ether	8.157	59	313278	47.58	ug/L	91
33) Hexane	7.740	41	169254	46.85	ug/L #	84
34) isobutyl alcohol	8.157	43	60297	353.20	ug/L	83
35) 2,2-dichloropropane	8.210	77	150205	51.91	ug/L	96
36) cis-1,2-dichloroethene	7.920	96	102039	48.29	ug/L	87
37) ethyl acetate	8.157	43	60633	70.59	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.090	128	49501	48.02 ug/L #	56
39) chloroform	8.129	83	176257	46.65 ug/L	100
41) 1,1,1-trichloroethane	8.877	97	149318	49.65 ug/L	92
43) cyclohexane	9.159	56	169885	45.77 ug/L #	80
44) carbon tetrachloride	9.240	117	126452	51.53 ug/L	96
45) 1,1-dichloropropene	9.053	75	128685	47.54 ug/L	91
46) benzene	9.275	78	376199	47.24 ug/L	100
47) tetrahydrofuran	8.460	42	30510	46.00 ug/L	89
48) 1,2-dichloroethane	8.778	62	136166	45.83 ug/L	99
49) tert-amyl methyl ether	9.403	73	255010	47.11 ug/L	91
50) heptane	9.762	43	143503	51.19 ug/L	92
51) trichloroethene	9.897	95	102872	49.30 ug/L	80
52) 1,2-dichloropropane	9.861	63	104864	47.41 ug/L	96
53) dibromomethane	9.833	93	64291	48.48 ug/L	93
54) bromodichloromethane	9.949	83	125902	47.42 ug/L	93
55) methylcyclohexane	10.415	83	161242	47.57 ug/L	87
56) 2-chloroethyl vinyl ether	10.334	63	71850	50.26 ug/L	88
57) methyl methacrylate	10.055	69	67206	48.54 ug/L	92
58) 1,4-dioxane	10.062	88	3153	175.58 ug/L	96
59) cis-1,3-dichloropropene	10.571	75	150475	50.77 ug/L	91
61) 4-methyl-2-pentanone	10.666	43	106267	47.33 ug/L	92
62) toluene	11.347	92	235097	48.33 ug/L	99
63) trans-1,3-dichloropropene	10.994	75	134174	44.87 ug/L	97
64) 1,1,2-trichloroethane	11.163	83	76939	47.53 ug/L	93
65) ethyl methacrylate	11.379	69	130296	49.16 ug/L	96
67) tetrachloroethene	12.088	166	107571	47.36 ug/L	92
68) 1,3-dichloropropane	11.396	76	157958	46.31 ug/L	97
69) dibromochloromethane	11.686	129	92921	41.39 ug/L	98
70) 1,2-dibromoethane	11.936	107	92443	46.02 ug/L	95
71) 2-hexanone	11.530	43	79054	47.96 ug/L	94
72) chlorobenzene	12.769	112	264620	43.78 ug/L	90
73) 1,1,1,2-tetrachloroethane	12.688	131	89231	47.71 ug/L	96
74) ethylbenzene	12.945	91	462887	47.73 ug/L	96
75) m,p-xylene	13.132	106	358286	98.47 ug/L	98
76) o-xylene	13.545	106	172247	46.14 ug/L	96
77) styrene	13.471	104	282798	45.03 ug/L	97
78) bromoform	13.291	173	60007	47.57 ug/L	98
79) trans-1,4-dichloro-2-b...	13.701	53	33298	45.97 ug/L	87
81) isopropylbenzene	13.909	105	440607	45.11 ug/L	100
83) bromobenzene	14.191	156	120004	44.45 ug/L	86
84) 1,1,2,2-tetrachloroethane	13.545	83	111360	46.76 ug/L	96
85) 1,2,3-trichloropropane	13.697	75	127522	47.16 ug/L	96
86) n-propylbenzene	14.357	91	511047	44.36 ug/L	96
87) 2-chlorotoluene	14.470	91	302808	43.95 ug/L	90
88) 4-chlorotoluene	14.547	91	323644	44.65 ug/L	91
89) 1,3,5-trimethylbenzene	14.636	105	382525	49.84 ug/L	99
90) tert-butylbenzene	14.936	91	215140	45.99 ug/L	90
91) 1,2,4-trimethylbenzene	15.045	105	369573	48.00 ug/L	99
92) sec-butylbenzene	15.162	105	466585	46.90 ug/L	98
93) 1,3-dichlorobenzene	15.260	146	208108	45.56 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.338	119	395938	47.34	ug/L	98
95) 1,4-dichlorobenzene	15.327	146	224093	44.97	ug/L	99
96) 1,2-dichlorobenzene	15.694	146	194869	46.97	ug/L	99
97) n-butylbenzene	15.758	91	371330	50.08	ug/L	91
98) 1,2-dibromo-3-chloropr...	16.181	75	11979	50.57	ug/L	89
99) 1,3,5-trichlorobenzene	16.993	180	118374	46.44	ug/L #	94
100) 1,2,4-trichlorobenzene	17.551	180	69906	54.01	ug/L	100
101) hexachlorobutadiene	17.854	225	52187	54.93	ug/L	97
102) naphthalene	17.826	128	101229	52.00	ug/L	100
103) 1,2,3-trichlorobenzene	17.551	180	69906	54.01	ug/L	98

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

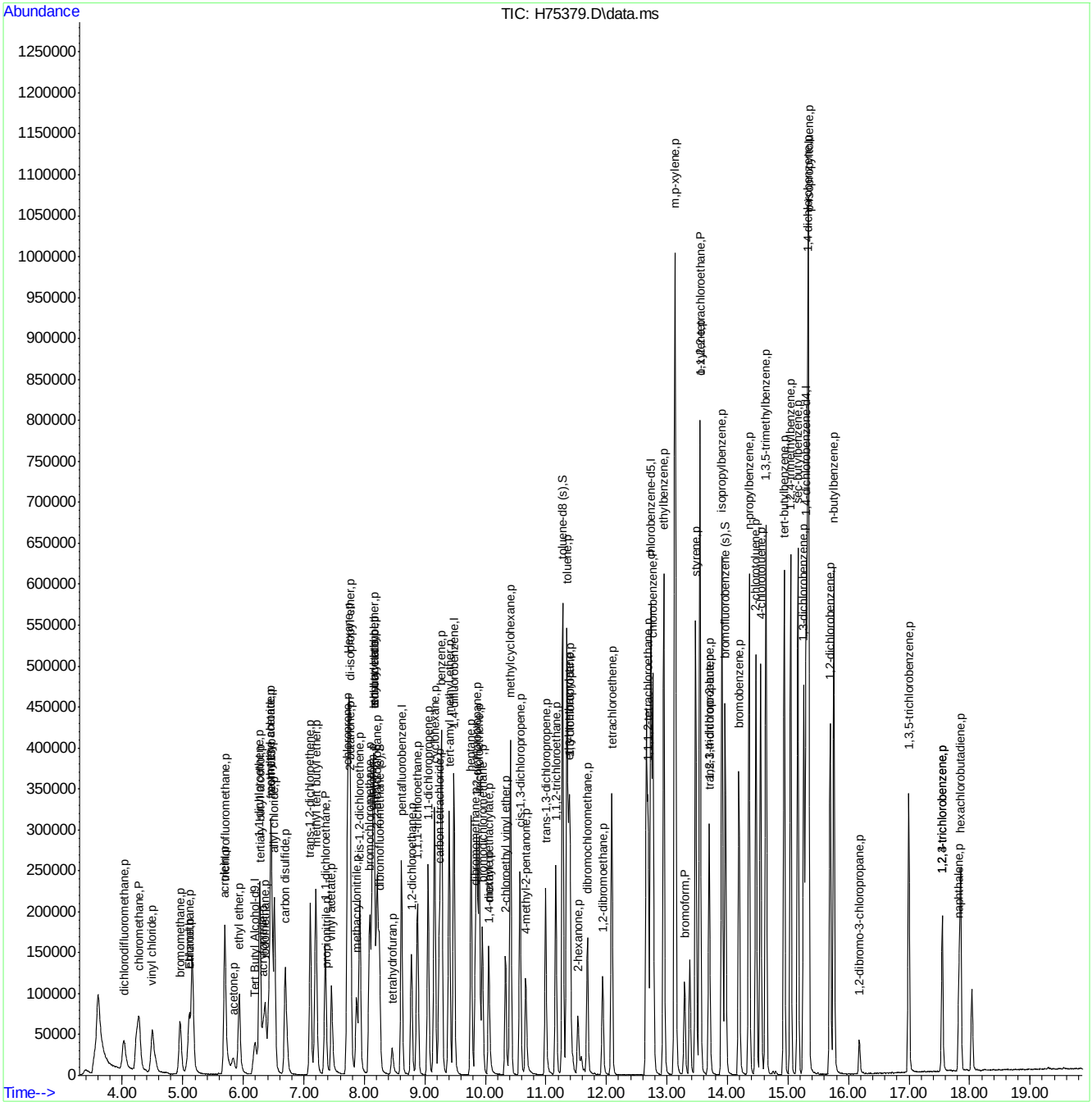
7.6.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bs
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

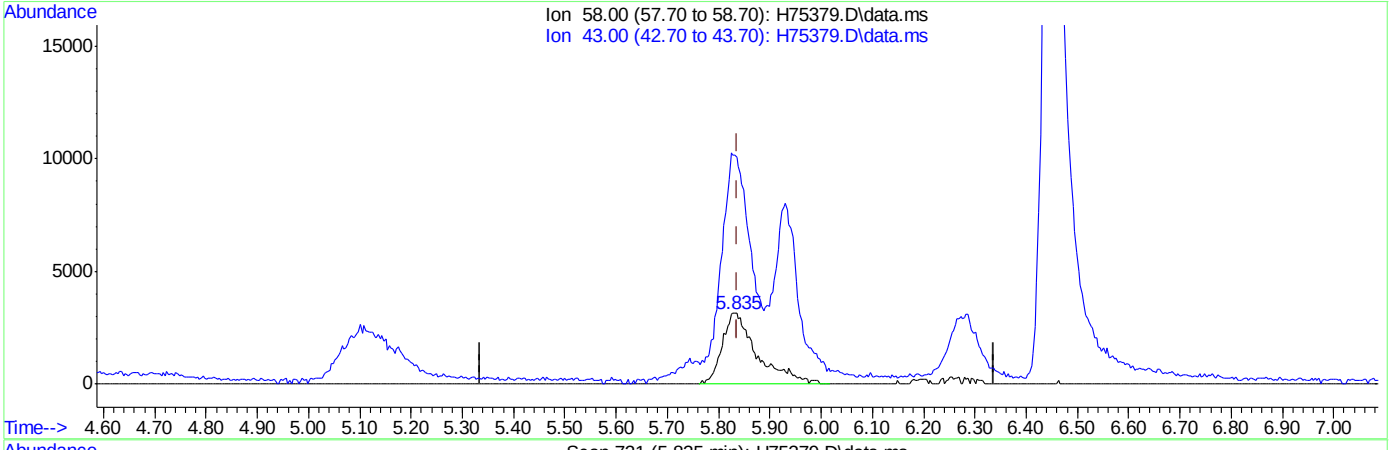
Quant Time: Oct 06 10:46:57 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

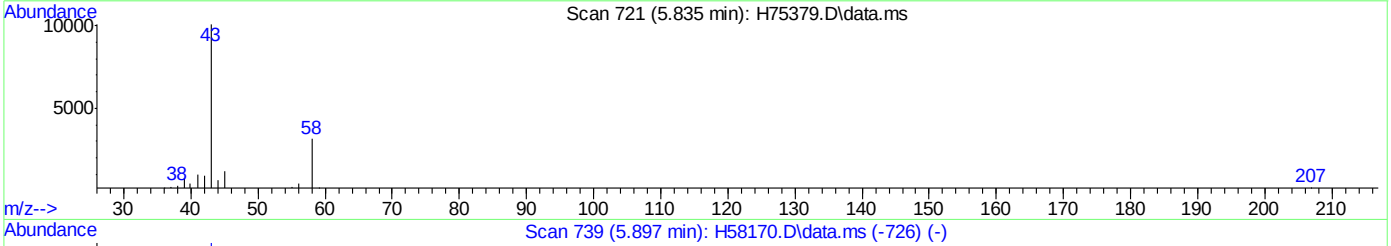


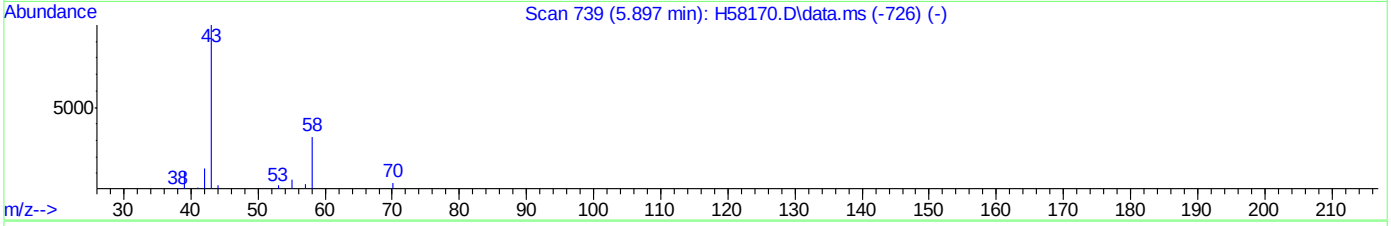
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(15) acetone (p)

5.835min (-0.002) 70.33ug/L

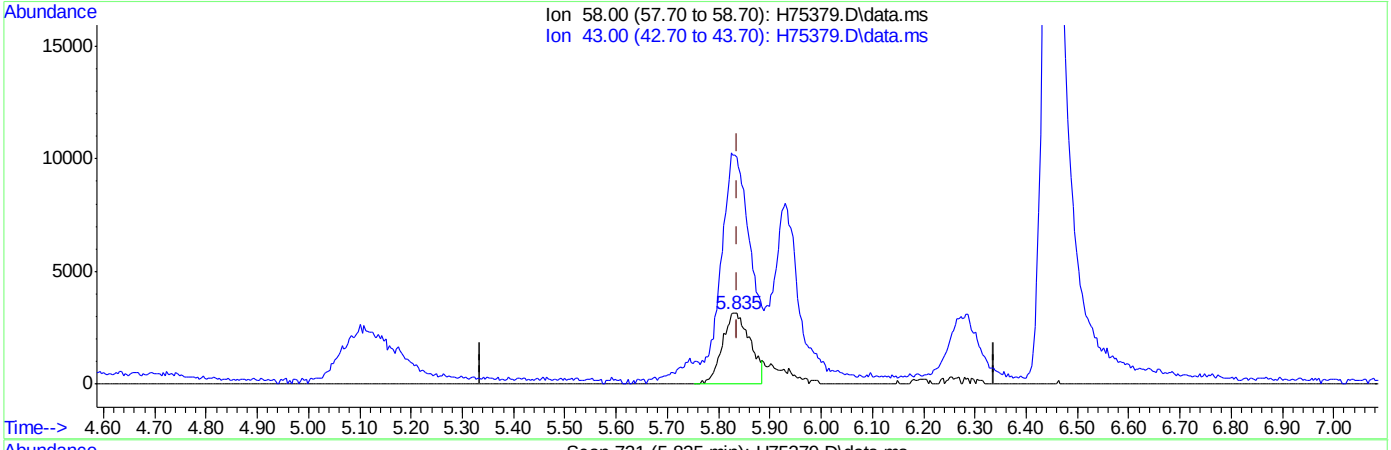
response 15021

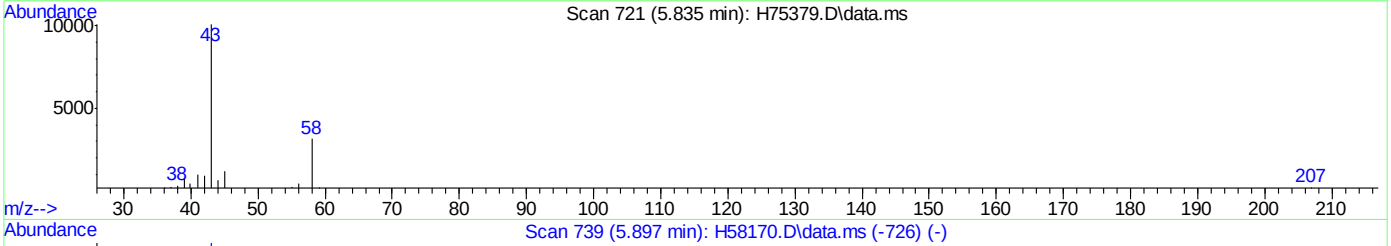
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	296.95
0.00	0.00	0.00
0.00	0.00	0.00

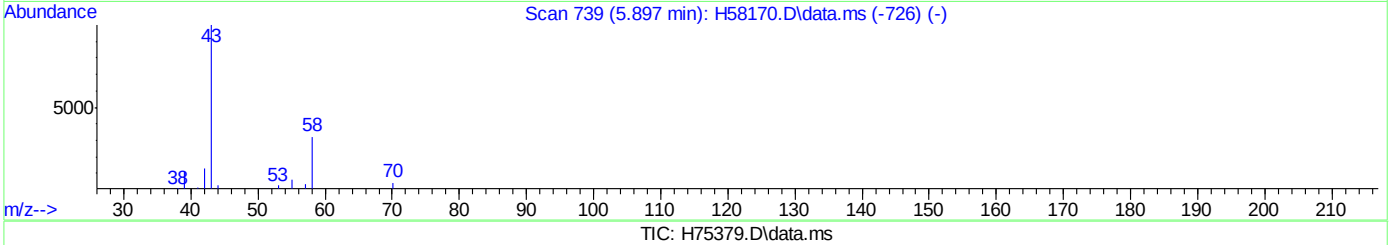
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(15) acetone (p)

5.835min (-0.002) 55.88ug/L m

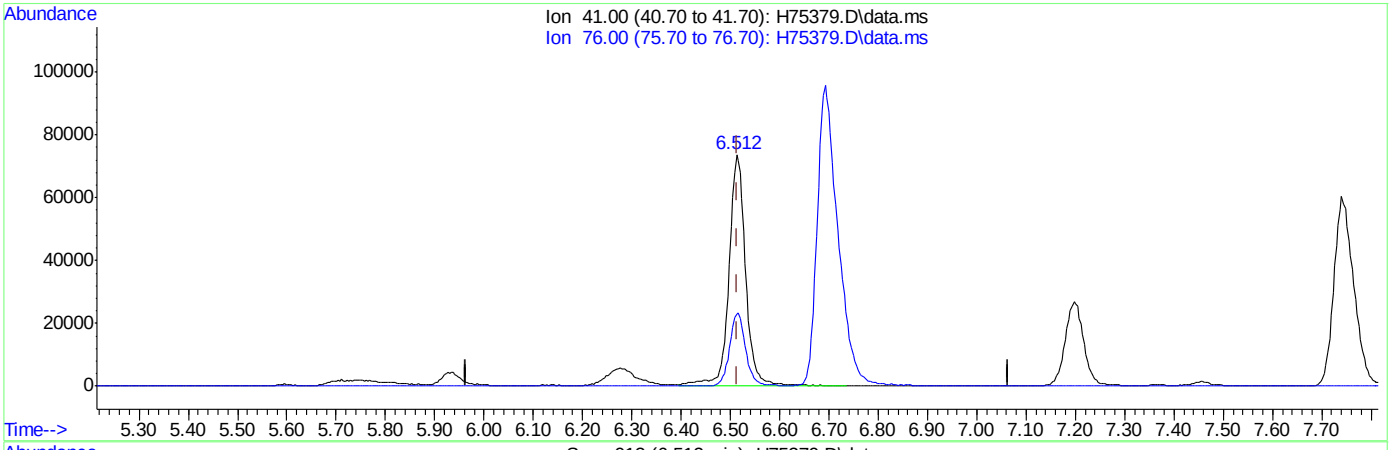
response 11935

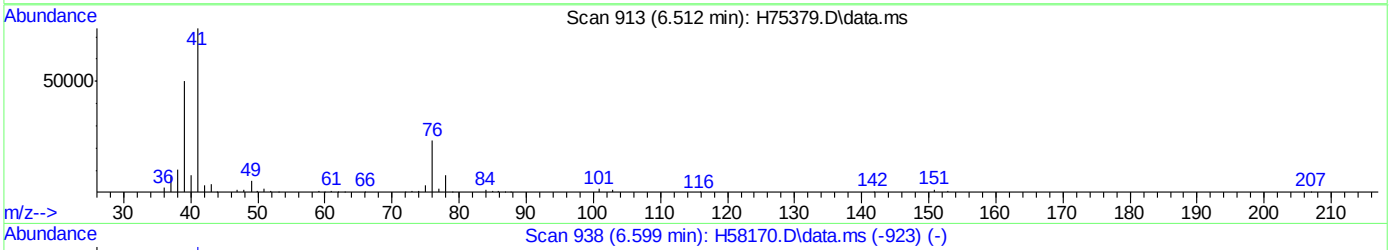
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.66
0.00	0.00	0.00
0.00	0.00	0.00

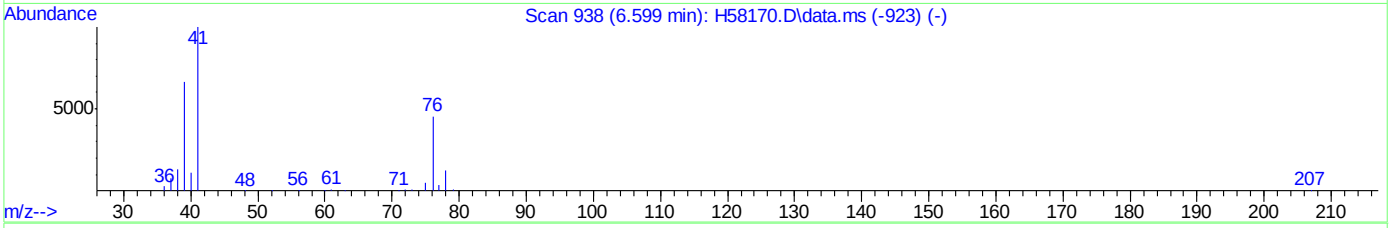
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(21) allyl chloride (p)

6.512min (-0.002) 49.06ug/L

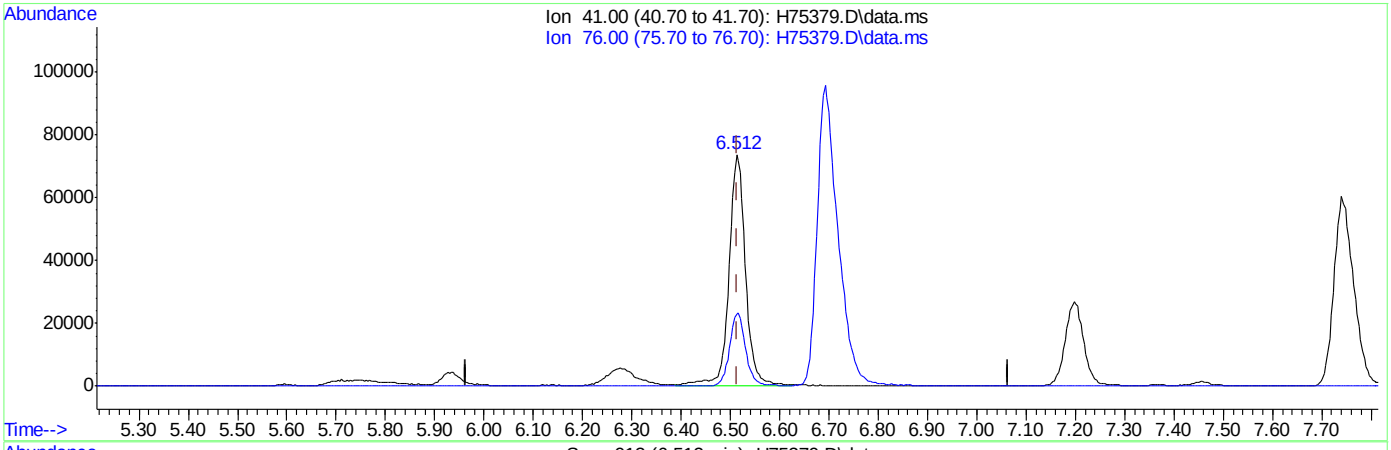
response 174737

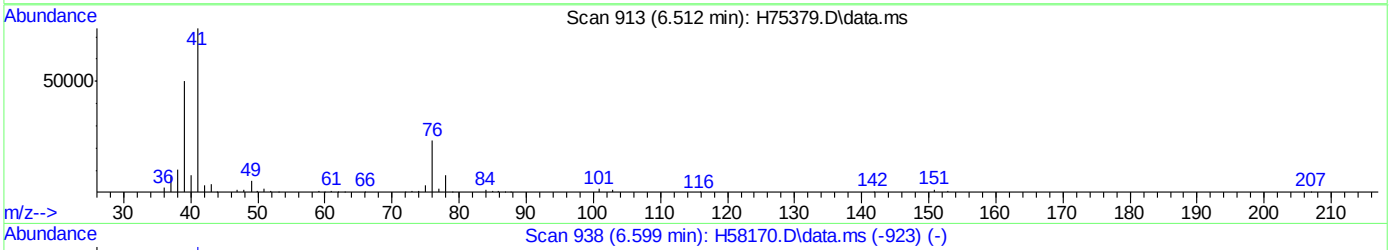
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.38
0.00	0.00	0.00
0.00	0.00	0.00

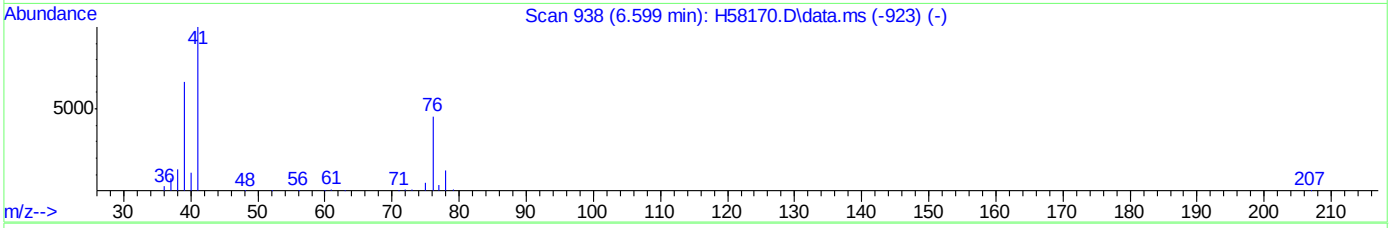
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75379.D
Acq On : 6 Oct 2015 10:26 am
Operator : kaylap
Sample : bsd
Misc : ms35362,msh2509,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 06 10:46:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75379.D\data.ms

(21) allyl chloride (p)

6.512min (-0.002) 48.65ug/L m

response 173266

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/07/15 15:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75405A.D
Acq On : 6 Oct 2015 10:12 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 08:03:13 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	6.188	65	65790	500.00	ug/L		0.00
4) pentafluorobenzene	8.612	168	159906	50.00	ug/L		0.00
42) 1,4-difluorobenzene	9.480	114	256328	50.00	ug/L		0.00
66) chlorobenzene-d5	12.733	82	163484	50.00	ug/L		0.00
80) 1,4-dichlorobenzene-d4	15.299	152	145483	50.00	ug/L		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.245	113	85342	52.78	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.56%				
60) toluene-d8 (s)	11.276	98	331278	53.28	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.56%				
82) bromofluorobenzene (s)	13.961	95	141081	48.96	ug/L		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.92%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.276	59	70064	461.13	ug/L		100
3) Ethanol	5.101	45	93936m	4698.62	ug/L		
5) dichlorodifluoromethane	4.024	85	98626	57.33	ug/L		99
6) chloromethane	4.264	50	87458	58.65	ug/L		98
7) vinyl chloride	4.497	62	91191	54.83	ug/L		98
8) bromomethane	4.949	96	53989	54.47	ug/L		100
9) chloroethane	5.108	64	51003	50.09	ug/L		97
11) trichlorofluoromethane	5.693	101	122575	49.05	ug/L		100
12) freon-113	6.463	101	73034	46.07	ug/L		90
13) acrolein	5.697	56	24223	337.71	ug/L		92
14) 1,1-dichloroethene	6.272	96	63663	46.35	ug/L	#	74
15) acetone	5.828	58	9440m	55.51	ug/L		
16) ethyl ether	5.933	59	64021	46.70	ug/L		83
17) methyl acetate	6.449	43	73529	47.08	ug/L		86
18) methylene chloride	6.449	84	81477	46.90	ug/L	#	69
19) methyl tert butyl ether	7.197	73	199171	46.65	ug/L		88
20) acrylonitrile	6.329	53	31649	50.40	ug/L		91
21) allyl chloride	6.512	41	131837	46.49	ug/L		87
22) trans-1,2-dichloroethene	7.105	96	70121	45.83	ug/L		83
23) iodomethane	6.360	142	108500	44.12	ug/L		93
24) carbon disulfide	6.692	76	226634	45.14	ug/L		97
25) propionitrile	7.373	54	10177	45.02	ug/L		100
26) vinyl acetate	7.458	43	104275	34.62	ug/L		92
27) chloroprene	7.719	53	124453	47.07	ug/L		98
28) di-isopropyl ether	7.761	45	277925	49.30	ug/L		90
29) methacrylonitrile	7.874	41	49927	46.09	ug/L		94
30) 2-butanone	7.765	72	9784	51.03	ug/L	#	51
31) 1,1-dichloroethane	7.352	63	147574	47.14	ug/L		94
32) tert-butyl ethyl ether	8.157	59	251465	47.96	ug/L		90
33) Hexane	7.744	41	131559	45.73	ug/L	#	90
34) isobutyl alcohol	8.157	43	35453	255.64	ug/L	#	73
35) 2,2-dichloropropane	8.213	77	101969	44.26	ug/L		95
36) cis-1,2-dichloroethene	7.924	96	79983	47.54	ug/L		85
37) ethyl acetate	8.157	43	37298	53.62	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75405A.D
Acq On : 6 Oct 2015 10:12 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 08:03:13 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.090	128	37943	46.23 ug/L #	53
39) chloroform	8.125	83	143822	47.81 ug/L	99
41) 1,1,1-trichloroethane	8.876	97	117051	48.88 ug/L	91
43) cyclohexane	9.159	56	133116	43.82 ug/L #	78
44) carbon tetrachloride	9.240	117	100204	49.89 ug/L	94
45) 1,1-dichloropropene	9.049	75	96793	43.70 ug/L	92
46) benzene	9.272	78	292152	44.83 ug/L	99
47) tetrahydrofuran	8.457	42	23378	43.07 ug/L	89
48) 1,2-dichloroethane	8.774	62	111486	45.85 ug/L	100
49) tert-amyl methyl ether	9.399	73	205701	46.43 ug/L	91
50) heptane	9.762	43	93421	40.72 ug/L	91
51) trichloroethene	9.896	95	82650	48.39 ug/L	79
52) 1,2-dichloropropane	9.857	63	83041	45.87 ug/L	95
53) dibromomethane	9.836	93	51121	47.10 ug/L	97
54) bromodichloromethane	9.949	83	109086	50.21 ug/L	93
55) methylcyclohexane	10.415	83	119633	43.13 ug/L	86
56) 2-chloroethyl vinyl ether	10.330	63	54221	46.35 ug/L	88
57) methyl methacrylate	10.055	69	52156	46.03 ug/L	93
58) 1,4-dioxane	10.066	88	3196	210.27 ug/L	78
59) cis-1,3-dichloropropene	10.574	75	124934	51.51 ug/L	88
61) 4-methyl-2-pentanone	10.669	43	83846	45.63 ug/L	91
62) toluene	11.347	92	186966	46.96 ug/L	97
63) trans-1,3-dichloropropene	10.997	75	116726	47.64 ug/L	98
64) 1,1,2-trichloroethane	11.163	83	63053	47.59 ug/L	92
65) ethyl methacrylate	11.378	69	100939	46.53 ug/L	95
67) tetrachloroethene	12.088	166	83673	42.93 ug/L	94
68) 1,3-dichloropropane	11.400	76	125733	42.95 ug/L	97
69) dibromochloromethane	11.685	129	78639	40.82 ug/L	99
70) 1,2-dibromoethane	11.936	107	73312	42.52 ug/L	94
71) 2-hexanone	11.527	43	61627	43.56 ug/L	94
72) chlorobenzene	12.769	112	215488	41.53 ug/L	91
73) 1,1,1,2-tetrachloroethane	12.688	131	73213	45.61 ug/L	95
74) ethylbenzene	12.945	91	363573	43.68 ug/L	96
75) m,p-xylene	13.132	106	280320	89.77 ug/L	98
76) o-xylene	13.545	106	142171	44.37 ug/L	98
77) styrene	13.471	104	222668	41.31 ug/L	96
78) bromoform	13.291	173	48571	45.02 ug/L	96
79) trans-1,4-dichloro-2-b...	13.700	53	26251	42.52 ug/L #	77
81) isopropylbenzene	13.909	105	352048	41.68 ug/L	98
83) bromobenzene	14.191	156	94942	40.66 ug/L #	85
84) 1,1,2,2-tetrachloroethane	13.545	83	85492	41.51 ug/L	92
85) 1,2,3-trichloropropane	13.697	75	102084	43.65 ug/L	97
86) n-propylbenzene	14.357	91	412902	41.44 ug/L	95
87) 2-chlorotoluene	14.470	91	251004	42.12 ug/L	89
88) 4-chlorotoluene	14.544	91	264603	42.21 ug/L	89
89) 1,3,5-trimethylbenzene	14.635	105	292446	44.06 ug/L	99
90) tert-butylbenzene	14.939	91	173894	42.99 ug/L	91
91) 1,2,4-trimethylbenzene	15.045	105	298596	44.84 ug/L	99
92) sec-butylbenzene	15.161	105	369637	42.96 ug/L	98
93) 1,3-dichlorobenzene	15.260	146	171584	43.43 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75405A.D
Acq On : 6 Oct 2015 10:12 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 08:03:13 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) p-isopropyltoluene	15.338	119	310749	42.96 ug/L	96
95) 1,4-dichlorobenzene	15.327	146	184915	42.91 ug/L	99
96) 1,2-dichlorobenzene	15.698	146	163331	45.52 ug/L	99
97) n-butylbenzene	15.758	91	286153	44.63 ug/L	91
98) 1,2-dibromo-3-chloropr...	16.174	75	10111	49.36 ug/L #	74
99) 1,3,5-trichlorobenzene	16.993	180	98119	44.51 ug/L #	94
100) 1,2,4-trichlorobenzene	17.550	180	53556	47.19 ug/L	95
101) hexachlorobutadiene	17.850	225	38082	44.83 ug/L	97
102) naphthalene	17.826	128	83349	49.18 ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	53556	47.19 ug/L	97

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

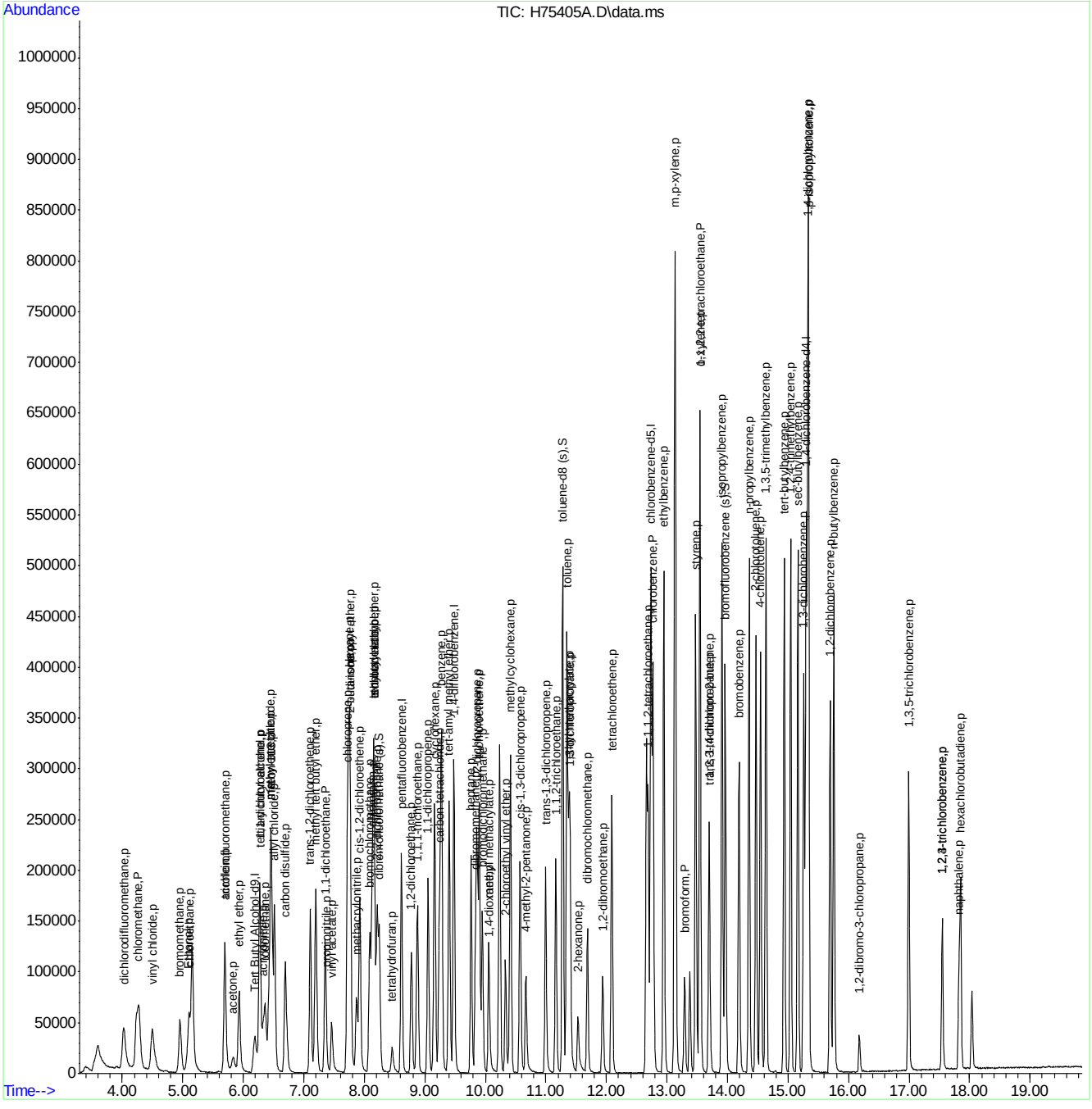
7.6.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151006\
Data File : H75405A.D
Acq On : 6 Oct 2015 10:12 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35373,msh2509,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 08:03:13 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES MC41696

Accutest Laboratories of New England, Inc. **Instrument: GCMS H**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS10345	8260 CC	200ug/mL
338	CC gas	
329	BS	
330	BS gas	
315	IS/SS	250ug/mL

Daily Saved File

Tune file 1:	H75160
Tune file 2:	NA
Initial Cal:	9/25/15
ID File:	H150925W.H
ICAL Verified:	KP
Sequence verified:	KP

Date: 9/25/15

Batch ID: MSH2500

Analysts KP

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT# exp:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H75149	blank	NA	NA	8260	1	W	5 mL	NA	1:1	NA	
50	↓	↓		curve	2						bfb✓✓
51	✓ ICC2500-0.5	2,2			3						✓✓
52	✓ -1				4						✓✓
53	✓ -2				5						✓✓
54	✓ -5				6						✓✓
55	✓ -10				7						✓✓
56	✓ ↓ -20				8						✓✓
57	✓ ICC2500-50				9						✓✓
58	✓ ICC2500-100				10						✓✓
59	✓ -200				11						✓✓
60	✓ ↓ -400	↓			12						✓✓
61	blank	NA			13						
62	↓	↓			14						
63	✓ ICV	3,2			15						✓✓
64	↓	↓			16						
65	blank	NA			17						
66	↓	↓	↓	↓	18	↓	↓	↓	↓	↓	

KP 9/25/15

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14 **Review:**

32

Accutest Laboratories of New England, Inc. **Instrument: GCMS H**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
ms10345	8260 cc	200µg/mL
350	cc gas	
357	BS	
330	BS gas	
315	TS/SS	250µg/mL

Daily Saved File

Tune file 1:	H75325
Tune file 2:	NA
Initial Cal:	9/25/15
ID File:	H150925W.H
ICAL Verified:	KH
Sequence verified:	KR

Date: 10/5/15 DAY

Batch ID: MSH2507

Analysts KR

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT# 235614 exp: 12-30-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H75322	blank	NA	NA	8260W	1	W	5 mL	NA	1:1	NA	
323	↓	↓	↓	↓	2	↓	↓	↓	↓	↓	
324	↓	↓			3						
325	CC2500-50	1,1			4						bpb ✓✓
326	BS	1,1			5						✓✓
327	BSD	↓			6						
328	blank	NA			7						
329	mb	↓	↓	↓	8					↓	✓✓
330	mc41756-6	2 /	ms35361	STD +MTBE	9					<2	✓✓
331	↓ -7	/			10						✓✓
332	mc41696-6	1 /			11						✓✓
333	↓ -7	2 /			12						✓✓
334	mc41893-1	4 /			13						✓✓
335	mc41696-1	↓ /			14						✓✓
336	-2	1 /			15						✓✓
337	-3	2 /			16						✓✓ RR vinyl chlor hit - failing QC
338	-4	1 /			17						✓✓
339	↓ -5	↓ /			18						✓✓ RR - vinyl chloride
340	mc41756-1	5 /			19						✓✓ RR - acetone
341	-2	2 /			20						✓✓
342	-3	~~2~~ 1 /			21						✓✓
343	-4	~~1~~ 2 /			22						✓✓ RR - acetone
344	↓ -5	2 /			23						✓✓
345	mc41756-1ms	1,7,9			24						✓✓
346	↓ -1msd	↓			25						✓✓
347	mc41696-1ms	1,2,3			26						✓✓
348	↓ -1msd	↓			27					↓	✓✓
349	ECC2500-50	1,1	↓	↓	28	↓	↓	↓	↓	NA	✓✓

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14 Review:

ACCUTEST LABORATORIES MC41696

Accu test Laboratories of New England, Inc. **Instrument: GCMS H**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
m016345	8260 cc	200ug/mL
360	CCgas	
357	BS	
330	BSgas	
315	IS/SS	250ug/mL

Daily Saved File

Tune file 1:	H75377
Tune file 2:	NA
Initial Cal:	9/25/15
ID File:	H150925W.H
ICAL Verified:	KH
Sequence verified:	KP

Date: 10/6/15 DAY

Batch ID: MSH2509

Analysts KP

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT# 235614 exp: 12-30-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H75377	CC2500-50	1.1	NA	8260W	1	W	5 mL	NA	1.1	NA	bPO
378	BS	1.1			2						
379	BSD				3						CC/BS ✓✓
380	blank	NA			4						
381	mb				5						✓✓
382	mc41694-16	2	ms35361 ~~ms35373~~	STD	6					22	✓✓
383	mc41682-7	3	ms35373	SL	7						✓✓
384	mc41758-3	2		STD	8						✓✓
385	-4	1			9						✓✓
386	mc41696-3	1	ms35361	STD	10						✓✓
387	-5	2			11						✓✓
388	mc41682-1	3	ms35373	SL	12						✓✓
389	-14	1			13						✓✓
390	-15	2			14						✓✓
391	-16	1			15						✓✓
392	-17	1			16						✓✓
393	-18				17						✓✓
394	-19	2			18						✓✓
395	-20	1			19						✓✓
396	-21	1			20						✓✓
397	-22	4			21						✓✓
398	mc41758-1	5		STD	22						✓✓
399	-2	2			23						✓✓
400	-1ms ~~1mSD~~	2,3,6			24						✓✓
401	-1msd				25						✓✓
402	ECC2500-50	1.1		8260	26					NA	✓✓ H75405A
403	blank	NA			27						
404					28						

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14 Review:

ACCUTEST LABORATORIES MC41696

New England ACCUTEST LABORATORIES

10/08/15

Technical Report for

EA Engineering

SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

RB577

Accutest Job Number: MC41757

Sampling Date: 09/24/15

Report to:

EA Engineering
6712 Brooklawn Parkway Suite 104
Syracuse, NY 13211
tlamond@eaest.com; hwilliams@eaest.com;
fdesantis@eaest.com
ATTN: Tara Lamond

Total number of pages in report: **344**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Accutest Laboratories

Sample Summary

EA Engineering

Job No: MC41757

SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Project No: RB577

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC41757-1	09/24/15	09:55	MC	09/25/15	AQ	Surface Water	78-SW-006
MC41757-2	09/24/15	10:05	MC	09/25/15	AQ	Surface Water	78-SW-005
MC41757-3	09/24/15	10:15	MC	09/25/15	AQ	Surface Water	78-SW-004
MC41757-3D	09/24/15	10:15	MC	09/25/15	AQ	Water Dup/MSD	78-SW-004
MC41757-3S	09/24/15	10:15	MC	09/25/15	AQ	Water Matrix Spike	78-SW-004
MC41757-4	09/24/15	00:00	MC	09/25/15	AQ	Surface Water	DUP-RI-SW
MC41757-5	09/24/15	11:00	MC	09/25/15	AQ	Field Blank Water	FIELD BLANK
MC41757-6	09/24/15	00:00	MC	09/25/15	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	EA Engineering	**Job No**	MC41757
Site:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ	**Report Date**	10/8/2015 4:00:54 PM

4 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were collected on 09/24/2015 and were received at Accutest on 09/25/2015 properly preserved, at 0.3 Deg. C and intact. These Samples received an Accutest job number of MC41757. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSH2511

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC41757-3MS, MC41757-3MSD were used as the QC samples indicated.
- Continuing calibration check standard MSH2511-CC2500 for Acetone, 1,2-dibromo-3-chloropropane, naphthalene exceed 20% Difference (response biased high). Associated samples are non-detect for this compound.
- Initial calibration verification standard MSH2500-ICV2500 for acetone exceed 20% Difference (response biased high). Associated samples are non-detect for these compounds.
- MSH2511-BS for Acetone, 2-Butanone (MEK): Outside DoD control limits, but within in-house control limits.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC41757).

Summary of Hits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
MC41757-1	**78-SW-006**					
No hits reported in this sample.						
MC41757-2	**78-SW-005**					
No hits reported in this sample.						
MC41757-3	**78-SW-004**					
No hits reported in this sample.						
MC41757-4	**DUP-RI-SW**					
No hits reported in this sample.						
MC41757-5	**FIELD BLANK**					
No hits reported in this sample.						
MC41757-6	**TRIP BLANK**					
No hits reported in this sample.						

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	78-SW-006		
Lab Sample ID:	MC41757-1	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75451.D	1	10/07/15	KP	n/a	n/a	MSH2511
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78-SW-006		
Lab Sample ID:	MC41757-1	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78-SW-006		
Lab Sample ID:	MC41757-1	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		80-116%
460-00-4	4-Bromofluorobenzene	96%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	78-SW-005		
Lab Sample ID:	MC41757-2	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75452.D	1	10/07/15	KP	n/a	n/a	MSH2511
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78-SW-005		
Lab Sample ID:	MC41757-2	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78-SW-005		
Lab Sample ID:	MC41757-2	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	95%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	78-SW-004		
Lab Sample ID:	MC41757-3	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78-SW-004		
Lab Sample ID:	MC41757-3	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78-SW-004		
Lab Sample ID:	MC41757-3	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		80-116%
460-00-4	4-Bromofluorobenzene	94%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-RI-SW		
Lab Sample ID:	MC41757-4	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75454.D	1	10/07/15	KP	n/a	n/a	MSH2511
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-RI-SW		
Lab Sample ID:	MC41757-4	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-RI-SW		
Lab Sample ID:	MC41757-4	**Date Sampled:**	09/24/15
Matrix:	AQ - Surface Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		80-116%
460-00-4	4-Bromofluorobenzene	95%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	MC41757-5	**Date Sampled:**	09/24/15
Matrix:	AQ - Field Blank Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75438.D	1	10/07/15	KP	n/a	n/a	MSH2511
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	MC41757-5	**Date Sampled:**	09/24/15
Matrix:	AQ - Field Blank Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	MC41757-5	**Date Sampled:**	09/24/15
Matrix:	AQ - Field Blank Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		80-116%
460-00-4	4-Bromofluorobenzene	95%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC41757-6	**Date Sampled:**	09/24/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75439.D	1	10/07/15	KP	n/a	n/a	MSH2511
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
67-64-1	Acetone	5.0 U	10	5.0	ug/l	
71-43-2	Benzene	0.50 U	0.50	0.50	ug/l	
108-86-1	Bromobenzene	1.0 U	5.0	1.0	ug/l	
74-97-5	Bromochloromethane	0.50 U	5.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
74-83-9	Bromomethane	1.0 U	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	5.0 U	10	5.0	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.0 U	5.0	1.0	ug/l	
98-06-6	tert-Butylbenzene	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.50 U	5.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.0 U	2.0	1.0	ug/l	
95-49-8	o-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	5.0	1.0	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	2.0	0.50	ug/l	

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC41757-6	**Date Sampled:**	09/24/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
142-28-9	1,3-Dichloropropane	1.0 U	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	2.0 U	5.0	2.0	ug/l	
563-58-6	1,1-Dichloropropene	0.50 U	5.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	5.0	1.0	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
74-88-4	Iodomethane	1.0 U	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	ug/l	
74-95-3	Methylene bromide	1.0 U	5.0	1.0	ug/l	
75-09-2	Methylene chloride	1.0 U	2.0	1.0	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.0 U	5.0	1.0	ug/l	
100-42-5	Styrene	0.50 U	5.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.50	ug/l	
127-18-4	Tetrachloroethene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	5.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	1.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	5.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	5.0	0.50	ug/l	
108-05-4	Vinyl Acetate	2.0 U	5.0	2.0	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
	m,p-Xylene	1.0 U	1.0	1.0	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-127%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC41757-6	**Date Sampled:**	09/24/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/25/15
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody
- QC Evaluation: DOD QSM5 Limits

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC41757

Client / Reporting Information

Company Name: EA. Science & Technology
Street Address: 6712 Brooklawn Prkway Suite 104
City / State / Zip: Syracuse, NY 13211
Project Contact / E-mail: Frank DeSantis Jr
Phone # / Fax #: 315 - 565 - 6554
Sampler(s) Name(s) / Phone #: Matt Glenn / Adam Ocur

Project Information

Project Name: Picatinny Arsenal
Street: Rte. 15, Picatinny Arsenal
City:
Project#: RB577
Client PO#:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet): VOCs by EPA 8260B

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/Oil Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
-1	78-SW-006		9-24-15	955	MC	SW	2	✓									
-2	78-SW-005		9-24-15	1005	MC	SW	2	✓									
	78-SW-004		9-24-15	1015	MC	SW	2	✓									
-3	78-SW-004MS		9-24-15	1015	MC	SW	2	✓									
	78-SW-004MSD		9-24-15	1015	MC	SW	2	✓									363
-4	DUP-RT-SW		9-24-15	0000	MC	SW	2	✓									
-5	Field Blank		9-24-15	1100	MC	FB	2	✓									
-6	Trip Blank		—	—		TB	2	✓									

Turnaround Time (Business days)
- ☑ Std. 10 Business Days
- ☐ Std. 5 Business Days (By Contract only)
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date: INITIAL ACCESSIONING 2A-05 LABEL VERIFICATION

Data Deliverable Information
- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☑ FULLT1 (Level 3+4)
- ☐ CT RCP
- ☐ MA MCP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

SHIP ALL SAMPLES TO MA LAB.

collected by: (SCI - Sovereign Consulting)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9-24 1602	1	2	9-24 1633	2
3	9-24-15 1700	3 FED EX	4		4
5 FEDX	9-25-15 930	5			

Custody Seal # 188 ☐ Intact ☐ Not intact | Preserved where applicable ☐ | On Ice ☐ | Cooler Temp. 03.9 °C

MC41757: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC41757 **Client:** EA **Project:**

Date / Time Received: 9/25/2015 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (0.3/0.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Thermometer ID:	G1;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control _Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
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495 Technology Center West, Bldg One
F: (508) 481-7753
Marlborough, MA 01752
www/accutest.com

MC41757: Chain of Custody
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Internal Sample Tracking Chronicle

EA Engineering

Job No: MC41757

SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Project No: RB577

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC41757-1	Collected: 24-SEP-15 09:55 By: MC 78-SW-006		Received: 25-SEP-15 By: NT			
MC41757-1	SW846 8260C	07-OCT-15 18:37	KP			V8260STD
MC41757-2	Collected: 24-SEP-15 10:05 By: MC 78-SW-005		Received: 25-SEP-15 By: NT			
MC41757-2	SW846 8260C	07-OCT-15 19:04	KP			V8260STD
MC41757-3	Collected: 24-SEP-15 10:15 By: MC 78-SW-004		Received: 25-SEP-15 By: NT			
MC41757-3	SW846 8260C	07-OCT-15 19:30	KP			V8260STD
MC41757-4	Collected: 24-SEP-15 00:00 By: MC DUP-RI-SW		Received: 25-SEP-15 By: NT			
MC41757-4	SW846 8260C	07-OCT-15 19:57	KP			V8260STD
MC41757-5	Collected: 24-SEP-15 11:00 By: MC FIELD BLANK		Received: 25-SEP-15 By: NT			
MC41757-5	SW846 8260C	07-OCT-15 12:52	KP			V8260STD
MC41757-6	Collected: 24-SEP-15 00:00 By: MC TRIP BLANK		Received: 25-SEP-15 By: NT			
MC41757-6	SW846 8260C	07-OCT-15 13:18	KP			V8260STD

Accutest Internal Chain of Custody

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Received: 09/25/15

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC41757-1.2	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-1.2	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-1.2	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-1.2	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-2.1	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-2.1	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-2.1	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-2.1	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-3.2	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-3.2	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-3.2	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-3.2	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-3.4	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-3.4	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-3.4	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-3.4	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-3.5	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-3.5	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-3.5	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-3.5	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-3.6	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-3.6	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-3.6	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-3.6	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-4.1	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-4.1	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-4.1	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-4.1	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-5.1	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-5.1	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-5.1	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-5.1	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage
MC41757-6.1	VOC Ref #3	Kayla Paradis	10/07/15 11:43	Retrieve from Storage
MC41757-6.1	Kayla Paradis	GCMSH	10/07/15 11:43	Load on Instrument
MC41757-6.1	GCMSH	Kayla Paradis	10/08/15 11:45	Unload from Instrument
MC41757-6.1	Kayla Paradis	VOC Ref #3	10/08/15 11:45	Return to Storage

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSH2511	SW846 8260C						
MSH2511-BS	67-64-1	Acetone	BSP	REC	194	%	39-160
MSH2511-BS	71-43-2	Benzene	BSP	REC	108	%	79-120
MSH2511-BS	108-86-1	Bromobenzene	BSP	REC	97	%	80-120
MSH2511-BS	74-97-5	Bromochloromethane	BSP	REC	111	%	78-123
MSH2511-BS	75-27-4	Bromodichloromethane	BSP	REC	112	%	79-125
MSH2511-BS	75-25-2	Bromoform	BSP	REC	106	%	66-130
MSH2511-BS	74-83-9	Bromomethane	BSP	REC	102	%	53-141
MSH2511-BS	78-93-3	2-Butanone (MEK)	BSP	REC	157	%	56-143
MSH2511-BS	104-51-8	n-Butylbenzene	BSP	REC	114	%	75-128
MSH2511-BS	135-98-8	sec-Butylbenzene	BSP	REC	106	%	77-126
MSH2511-BS	98-06-6	tert-Butylbenzene	BSP	REC	105	%	78-124
MSH2511-BS	75-15-0	Carbon disulfide	BSP	REC	107	%	64-133
MSH2511-BS	56-23-5	Carbon tetrachloride	BSP	REC	123	%	72-136
MSH2511-BS	108-90-7	Chlorobenzene	BSP	REC	98	%	82-118
MSH2511-BS	75-00-3	Chloroethane	BSP	REC	103	%	60-138
MSH2511-BS	67-66-3	Chloroform	BSP	REC	110	%	79-124
MSH2511-BS	74-87-3	Chloromethane	BSP	REC	93	%	50-139
MSH2511-BS	95-49-8	o-Chlorotoluene	BSP	REC	99	%	79-122
MSH2511-BS	106-43-4	p-Chlorotoluene	BSP	REC	101	%	78-122
MSH2511-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	122	%	62-128
MSH2511-BS	124-48-1	Dibromochloromethane	BSP	REC	96	%	74-126
MSH2511-BS	106-93-4	1,2-Dibromoethane	BSP	REC	103	%	77-121
MSH2511-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	107	%	80-119
MSH2511-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	101	%	80-119
MSH2511-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	101	%	79-118
MSH2511-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	35	%	32-152
MSH2511-BS	75-34-3	1,1-Dichloroethane	BSP	REC	110	%	77-125
MSH2511-BS	107-06-2	1,2-Dichloroethane	BSP	REC	108	%	73-128
MSH2511-BS	75-35-4	1,1-Dichloroethene	BSP	REC	120	%	71-131
MSH2511-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	115	%	78-123
MSH2511-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	114	%	75-124
MSH2511-BS	78-87-5	1,2-Dichloropropane	BSP	REC	111	%	78-122
MSH2511-BS	142-28-9	1,3-Dichloropropane	BSP	REC	106	%	80-119
MSH2511-BS	594-20-7	2,2-Dichloropropane	BSP	REC	125	%	60-139
MSH2511-BS	563-58-6	1,1-Dichloropropene	BSP	REC	109	%	79-125
MSH2511-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	121	%	75-124
MSH2511-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	107	%	73-127
MSH2511-BS	100-41-4	Ethylbenzene	BSP	REC	106	%	79-121
MSH2511-BS	87-68-3	Hexachlorobutadiene	BSP	REC	130	%	66-134
MSH2511-BS	591-78-6	2-Hexanone	BSP	REC	138	%	57-139
MSH2511-BS	74-88-4	Iodomethane	BSP	REC	111	%	69-131
MSH2511-BS	98-82-8	Isopropylbenzene	BSP	REC	100	%	72-131

* Sample used for QC is not from job MC41757

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MSH2511-BS	99-87-6	p-Isopropyltoluene	BSP	REC	108	%	77-127
MSH2511-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	118	%	71-124
MSH2511-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	115	%	67-130
MSH2511-BS	74-95-3	Methylene bromide	BSP	REC	113	%	79-123
MSH2511-BS	75-09-2	Methylene chloride	BSP	REC	115	%	74-124
MSH2511-BS	91-20-3	Naphthalene	BSP	REC	124	%	61-128
MSH2511-BS	103-65-1	n-Propylbenzene	BSP	REC	98	%	76-126
MSH2511-BS	100-42-5	Styrene	BSP	REC	99	%	78-123
MSH2511-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	107	%	78-124
MSH2511-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	108	%	71-121
MSH2511-BS	127-18-4	Tetrachloroethene	BSP	REC	107	%	74-129
MSH2511-BS	108-88-3	Toluene	BSP	REC	115	%	80-121
MSH2511-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	126	%	69-129
MSH2511-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	126	%	69-130
MSH2511-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	119	%	74-131
MSH2511-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	113	%	80-119
MSH2511-BS	79-01-6	Trichloroethene	BSP	REC	110	%	79-123
MSH2511-BS	75-69-4	Trichlorofluoromethane	BSP	REC	86	%	65-141
MSH2511-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	106	%	73-122
MSH2511-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	108	%	76-124
MSH2511-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	111	%	75-124
MSH2511-BS	108-05-4	Vinyl Acetate	BSP	REC	132	%	54-146
MSH2511-BS	75-01-4	Vinyl chloride	BSP	REC	89	%	58-137
MSH2511-BS		m,p-Xylene	BSP	REC	110	%	80-121
MSH2511-BS	95-47-6	o-Xylene	BSP	REC	103	%	78-122
MSH2511-BS	1330-20-7	Xylene (total)	BSP	REC	108	%	79-121
MSH2511-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	103	%	80-119
MSH2511-BS	2037-26-5	Toluene-D8	BSP	SURR	106	%	89-112
MSH2511-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	96	%	85-114
MC41757-3MS	67-64-1	Acetone	MS	REC	87	%	39-160
MC41757-3MS	71-43-2	Benzene	MS	REC	111	%	79-120
MC41757-3MS	108-86-1	Bromobenzene	MS	REC	96	%	80-120
MC41757-3MS	74-97-5	Bromochloromethane	MS	REC	118	%	78-123
MC41757-3MS	75-27-4	Bromodichloromethane	MS	REC	116	%	79-125
MC41757-3MS	75-25-2	Bromoform	MS	REC	104	%	66-130
MC41757-3MS	74-83-9	Bromomethane	MS	REC	98	%	53-141
MC41757-3MS	78-93-3	2-Butanone (MEK)	MS	REC	115	%	56-143
MC41757-3MS	104-51-8	n-Butylbenzene	MS	REC	109	%	75-128
MC41757-3MS	135-98-8	sec-Butylbenzene	MS	REC	102	%	77-126
MC41757-3MS	98-06-6	tert-Butylbenzene	MS	REC	102	%	78-124
MC41757-3MS	75-15-0	Carbon disulfide	MS	REC	100	%	64-133
MC41757-3MS	56-23-5	Carbon tetrachloride	MS	REC	127	%	72-136
MC41757-3MS	108-90-7	Chlorobenzene	MS	REC	97	%	82-118
MC41757-3MS	75-00-3	Chloroethane	MS	REC	101	%	60-138
MC41757-3MS	67-66-3	Chloroform	MS	REC	120	%	79-124

* Sample used for QC is not from job MC41757

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41757-3MS	74-87-3	Chloromethane	MS	REC	90	%	50-139
MC41757-3MS	95-49-8	o-Chlorotoluene	MS	REC	98	%	79-122
MC41757-3MS	106-43-4	p-Chlorotoluene	MS	REC	100	%	78-122
MC41757-3MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	120	%	62-128
MC41757-3MS	124-48-1	Dibromochloromethane	MS	REC	94	%	74-126
MC41757-3MS	106-93-4	1,2-Dibromoethane	MS	REC	103	%	77-121
MC41757-3MS	95-50-1	1,2-Dichlorobenzene	MS	REC	106	%	80-119
MC41757-3MS	541-73-1	1,3-Dichlorobenzene	MS	REC	102	%	80-119
MC41757-3MS	106-46-7	1,4-Dichlorobenzene	MS	REC	102	%	79-118
MC41757-3MS	75-71-8	Dichlorodifluoromethane	MS	REC	38	%	32-152
MC41757-3MS	75-34-3	1,1-Dichloroethane	MS	REC	115	%	77-125
MC41757-3MS	107-06-2	1,2-Dichloroethane	MS	REC	115	%	73-128
MC41757-3MS	75-35-4	1,1-Dichloroethene	MS	REC	120	%	71-131
MC41757-3MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	119	%	78-123
MC41757-3MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	115	%	75-124
MC41757-3MS	78-87-5	1,2-Dichloropropane	MS	REC	113	%	78-122
MC41757-3MS	142-28-9	1,3-Dichloropropane	MS	REC	106	%	80-119
MC41757-3MS	594-20-7	2,2-Dichloropropane	MS	REC	115	%	60-139
MC41757-3MS	563-58-6	1,1-Dichloropropene	MS	REC	108	%	79-125
MC41757-3MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	116	%	75-124
MC41757-3MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	102	%	73-127
MC41757-3MS	100-41-4	Ethylbenzene	MS	REC	105	%	79-121
MC41757-3MS	87-68-3	Hexachlorobutadiene	MS	REC	107	%	66-134
MC41757-3MS	591-78-6	2-Hexanone	MS	REC	95	%	57-139
MC41757-3MS	74-88-4	Iodomethane	MS	REC	110	%	69-131
MC41757-3MS	98-82-8	Isopropylbenzene	MS	REC	97	%	72-131
MC41757-3MS	99-87-6	p-Isopropyltoluene	MS	REC	104	%	77-127
MC41757-3MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	118	%	71-124
MC41757-3MS	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	111	%	67-130
MC41757-3MS	74-95-3	Methylene bromide	MS	REC	117	%	79-123
MC41757-3MS	75-09-2	Methylene chloride	MS	REC	119	%	74-124
MC41757-3MS	91-20-3	Naphthalene	MS	REC	107	%	61-128
MC41757-3MS	103-65-1	n-Propylbenzene	MS	REC	97	%	76-126
MC41757-3MS	100-42-5	Styrene	MS	REC	91	%	78-123
MC41757-3MS	630-20-6	1,1,1,2-Tetrachloroethane	MS	REC	109	%	78-124
MC41757-3MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	110	%	71-121
MC41757-3MS	127-18-4	Tetrachloroethene	MS	REC	99	%	74-129
MC41757-3MS	108-88-3	Toluene	MS	REC	111	%	80-121
MC41757-3MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	111	%	69-129
MC41757-3MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	111	%	69-130
MC41757-3MS	71-55-6	1,1,1-Trichloroethane	MS	REC	126	%	74-131
MC41757-3MS	79-00-5	1,1,2-Trichloroethane	MS	REC	114	%	80-119
MC41757-3MS	79-01-6	Trichloroethene	MS	REC	112	%	79-123
MC41757-3MS	75-69-4	Trichlorofluoromethane	MS	REC	90	%	65-141
MC41757-3MS	96-18-4	1,2,3-Trichloropropane	MS	REC	105	%	73-122

* Sample used for QC is not from job MC41757

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41757-3MS	95-63-6	1,2,4-Trimethylbenzene	MS	REC	104	%	76-124
MC41757-3MS	108-67-8	1,3,5-Trimethylbenzene	MS	REC	106	%	75-124
MC41757-3MS	108-05-4	Vinyl Acetate	MS	REC	124	%	54-146
MC41757-3MS	75-01-4	Vinyl chloride	MS	REC	89	%	58-137
MC41757-3MS		m,p-Xylene	MS	REC	108	%	80-121
MC41757-3MS	95-47-6	o-Xylene	MS	REC	102	%	78-122
MC41757-3MS	1330-20-7	Xylene (total)	MS	REC	106	%	79-121
MC41757-3MS	1868-53-7	Dibromofluoromethane	MS	SURR	109	%	80-119
MC41757-3MS	2037-26-5	Toluene-D8	MS	SURR	102	%	89-112
MC41757-3MS	460-00-4	4-Bromofluorobenzene	MS	SURR	96	%	85-114
MC41757-3MSD	67-64-1	Acetone	MSD	REC	84	%	39-160
MC41757-3MSD	67-64-1	Acetone	MSD	RPD	3	%	20
MC41757-3MSD	71-43-2	Benzene	MSD	REC	107	%	79-120
MC41757-3MSD	71-43-2	Benzene	MSD	RPD	4	%	20
MC41757-3MSD	108-86-1	Bromobenzene	MSD	REC	92	%	80-120
MC41757-3MSD	108-86-1	Bromobenzene	MSD	RPD	4	%	20
MC41757-3MSD	74-97-5	Bromochloromethane	MSD	REC	111	%	78-123
MC41757-3MSD	74-97-5	Bromochloromethane	MSD	RPD	6	%	20
MC41757-3MSD	75-27-4	Bromodichloromethane	MSD	REC	109	%	79-125
MC41757-3MSD	75-27-4	Bromodichloromethane	MSD	RPD	6	%	20
MC41757-3MSD	75-25-2	Bromoform	MSD	REC	105	%	66-130
MC41757-3MSD	75-25-2	Bromoform	MSD	RPD	0	%	20
MC41757-3MSD	74-83-9	Bromomethane	MSD	REC	111	%	53-141
MC41757-3MSD	74-83-9	Bromomethane	MSD	RPD	12	%	20
MC41757-3MSD	78-93-3	2-Butanone (MEK)	MSD	REC	105	%	56-143
MC41757-3MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	9	%	20
MC41757-3MSD	104-51-8	n-Butylbenzene	MSD	REC	103	%	75-128
MC41757-3MSD	104-51-8	n-Butylbenzene	MSD	RPD	6	%	20
MC41757-3MSD	135-98-8	sec-Butylbenzene	MSD	REC	97	%	77-126
MC41757-3MSD	135-98-8	sec-Butylbenzene	MSD	RPD	5	%	20
MC41757-3MSD	98-06-6	tert-Butylbenzene	MSD	REC	96	%	78-124
MC41757-3MSD	98-06-6	tert-Butylbenzene	MSD	RPD	6	%	20
MC41757-3MSD	75-15-0	Carbon disulfide	MSD	REC	95	%	64-133
MC41757-3MSD	75-15-0	Carbon disulfide	MSD	RPD	6	%	20
MC41757-3MSD	56-23-5	Carbon tetrachloride	MSD	REC	119	%	72-136
MC41757-3MSD	56-23-5	Carbon tetrachloride	MSD	RPD	7	%	20
MC41757-3MSD	108-90-7	Chlorobenzene	MSD	REC	92	%	82-118
MC41757-3MSD	108-90-7	Chlorobenzene	MSD	RPD	5	%	20
MC41757-3MSD	75-00-3	Chloroethane	MSD	REC	117	%	60-138
MC41757-3MSD	75-00-3	Chloroethane	MSD	RPD	14	%	20
MC41757-3MSD	67-66-3	Chloroform	MSD	REC	112	%	79-124
MC41757-3MSD	67-66-3	Chloroform	MSD	RPD	7	%	20
MC41757-3MSD	74-87-3	Chloromethane	MSD	REC	106	%	50-139
MC41757-3MSD	74-87-3	Chloromethane	MSD	RPD	16	%	20
MC41757-3MSD	95-49-8	o-Chlorotoluene	MSD	REC	94	%	79-122

* Sample used for QC is not from job MC41757

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41757-3MSD	95-49-8	o-Chlorotoluene	MSD	RPD	4	%	20
MC41757-3MSD	106-43-4	p-Chlorotoluene	MSD	REC	96	%	78-122
MC41757-3MSD	106-43-4	p-Chlorotoluene	MSD	RPD	5	%	20
MC41757-3MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	109	%	62-128
MC41757-3MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	10	%	20
MC41757-3MSD	124-48-1	Dibromochloromethane	MSD	REC	90	%	74-126
MC41757-3MSD	124-48-1	Dibromochloromethane	MSD	RPD	5	%	20
MC41757-3MSD	106-93-4	1,2-Dibromoethane	MSD	REC	98	%	77-121
MC41757-3MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	4	%	20
MC41757-3MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	99	%	80-119
MC41757-3MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	7	%	20
MC41757-3MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	95	%	80-119
MC41757-3MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	7	%	20
MC41757-3MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	95	%	79-118
MC41757-3MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	8	%	20
MC41757-3MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	43	%	32-152
MC41757-3MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	13	%	20
MC41757-3MSD	75-34-3	1,1-Dichloroethane	MSD	REC	110	%	77-125
MC41757-3MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	5	%	20
MC41757-3MSD	107-06-2	1,2-Dichloroethane	MSD	REC	108	%	73-128
MC41757-3MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	6	%	20
MC41757-3MSD	75-35-4	1,1-Dichloroethene	MSD	REC	115	%	71-131
MC41757-3MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	4	%	20
MC41757-3MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	113	%	78-123
MC41757-3MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	5	%	20
MC41757-3MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	111	%	75-124
MC41757-3MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	4	%	20
MC41757-3MSD	78-87-5	1,2-Dichloropropane	MSD	REC	106	%	78-122
MC41757-3MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	6	%	20
MC41757-3MSD	142-28-9	1,3-Dichloropropane	MSD	REC	99	%	80-119
MC41757-3MSD	142-28-9	1,3-Dichloropropane	MSD	RPD	7	%	20
MC41757-3MSD	594-20-7	2,2-Dichloropropane	MSD	REC	106	%	60-139
MC41757-3MSD	594-20-7	2,2-Dichloropropane	MSD	RPD	8	%	20
MC41757-3MSD	563-58-6	1,1-Dichloropropene	MSD	REC	106	%	79-125
MC41757-3MSD	563-58-6	1,1-Dichloropropene	MSD	RPD	2	%	20
MC41757-3MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	108	%	75-124
MC41757-3MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	7	%	20
MC41757-3MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	94	%	73-127
MC41757-3MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	8	%	20
MC41757-3MSD	100-41-4	Ethylbenzene	MSD	REC	100	%	79-121
MC41757-3MSD	100-41-4	Ethylbenzene	MSD	RPD	5	%	20
MC41757-3MSD	87-68-3	Hexachlorobutadiene	MSD	REC	107	%	66-134
MC41757-3MSD	87-68-3	Hexachlorobutadiene	MSD	RPD	0	%	20
MC41757-3MSD	591-78-6	2-Hexanone	MSD	REC	96	%	57-139
MC41757-3MSD	591-78-6	2-Hexanone	MSD	RPD	1	%	20

* Sample used for QC is not from job MC41757

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41757-3MSD	74-88-4	Iodomethane	MSD	REC	107	%	69-131
MC41757-3MSD	74-88-4	Iodomethane	MSD	RPD	3	%	20
MC41757-3MSD	98-82-8	Isopropylbenzene	MSD	REC	91	%	72-131
MC41757-3MSD	98-82-8	Isopropylbenzene	MSD	RPD	6	%	20
MC41757-3MSD	99-87-6	p-Isopropyltoluene	MSD	REC	99	%	77-127
MC41757-3MSD	99-87-6	p-Isopropyltoluene	MSD	RPD	5	%	20
MC41757-3MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	114	%	71-124
MC41757-3MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	4	%	20
MC41757-3MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	104	%	67-130
MC41757-3MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	7	%	20
MC41757-3MSD	74-95-3	Methylene bromide	MSD	REC	111	%	79-123
MC41757-3MSD	74-95-3	Methylene bromide	MSD	RPD	6	%	20
MC41757-3MSD	75-09-2	Methylene chloride	MSD	REC	113	%	74-124
MC41757-3MSD	75-09-2	Methylene chloride	MSD	RPD	6	%	20
MC41757-3MSD	91-20-3	Naphthalene	MSD	REC	100	%	61-128
MC41757-3MSD	91-20-3	Naphthalene	MSD	RPD	7	%	20
MC41757-3MSD	103-65-1	n-Propylbenzene	MSD	REC	92	%	76-126
MC41757-3MSD	103-65-1	n-Propylbenzene	MSD	RPD	5	%	20
MC41757-3MSD	100-42-5	Styrene	MSD	REC	91	%	78-123
MC41757-3MSD	100-42-5	Styrene	MSD	RPD	0	%	20
MC41757-3MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	REC	105	%	78-124
MC41757-3MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	RPD	4	%	20
MC41757-3MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	107	%	71-121
MC41757-3MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	3	%	20
MC41757-3MSD	127-18-4	Tetrachloroethene	MSD	REC	96	%	74-129
MC41757-3MSD	127-18-4	Tetrachloroethene	MSD	RPD	4	%	20
MC41757-3MSD	108-88-3	Toluene	MSD	REC	102	%	80-121
MC41757-3MSD	108-88-3	Toluene	MSD	RPD	9	%	20
MC41757-3MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	101	%	69-129
MC41757-3MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	10	%	20
MC41757-3MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	101	%	69-130
MC41757-3MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	10	%	20
MC41757-3MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	117	%	74-131
MC41757-3MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	7	%	20
MC41757-3MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	103	%	80-119
MC41757-3MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	10	%	20
MC41757-3MSD	79-01-6	Trichloroethene	MSD	REC	109	%	79-123
MC41757-3MSD	79-01-6	Trichloroethene	MSD	RPD	3	%	20
MC41757-3MSD	75-69-4	Trichlorofluoromethane	MSD	REC	102	%	65-141
MC41757-3MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	13	%	20
MC41757-3MSD	96-18-4	1,2,3-Trichloropropane	MSD	REC	102	%	73-122
MC41757-3MSD	96-18-4	1,2,3-Trichloropropane	MSD	RPD	3	%	20
MC41757-3MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	REC	99	%	76-124
MC41757-3MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	RPD	6	%	20
MC41757-3MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	REC	101	%	75-124

* Sample used for QC is not from job MC41757

QC Evaluation: DOD QSM5 Limits

Job Number: MC41757
Account: EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ
Collected: 09/24/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MC41757-3MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	RPD	4	%	20
MC41757-3MSD	108-05-4	Vinyl Acetate	MSD	REC	118	%	54-146
MC41757-3MSD	108-05-4	Vinyl Acetate	MSD	RPD	5	%	20
MC41757-3MSD	75-01-4	Vinyl chloride	MSD	REC	104	%	58-137
MC41757-3MSD	75-01-4	Vinyl chloride	MSD	RPD	16	%	20
MC41757-3MSD		m,p-Xylene	MSD	REC	103	%	80-121
MC41757-3MSD		m,p-Xylene	MSD	RPD	5	%	20
MC41757-3MSD	95-47-6	o-Xylene	MSD	REC	100	%	78-122
MC41757-3MSD	95-47-6	o-Xylene	MSD	RPD	2	%	20
MC41757-3MSD	1330-20-7	Xylene (total)	MSD	REC	102	%	79-121
MC41757-3MSD	1330-20-7	Xylene (total)	MSD	RPD	4	%	20
MC41757-3MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	108	%	80-119
MC41757-3MSD	2037-26-5	Toluene-D8	MSD	SURR	99	%	89-112
MC41757-3MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	96	%	85-114
MSH2511-MB	1868-53-7	Dibromofluoromethane	MB	SURR	103	%	80-119
MSH2511-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	89-112
MSH2511-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	96	%	85-114
MC41757-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	80-119
MC41757-1	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
MC41757-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	85-114
MC41757-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	80-119
MC41757-2	2037-26-5	Toluene-D8	SAMP	SURR	102	%	89-112
MC41757-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	85-114
MC41757-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	113	%	80-119
MC41757-3	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
MC41757-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	94	%	85-114
MC41757-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	112	%	80-119
MC41757-4	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
MC41757-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	85-114
MC41757-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	80-119
MC41757-5	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112
MC41757-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	85-114
MC41757-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	80-119
MC41757-6	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
MC41757-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	85-114

* Sample used for QC is not from job MC41757

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB	H75437.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

Method Blank Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB	H75437.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

Method Blank Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB	H75437.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	79-127%
2037-26-5	Toluene-D8	99%	80-116%
460-00-4	4-Bromofluorobenzene	96%	77-124%

Blank Spike Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-BS	H75434.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	97.1	194	10-200
71-43-2	Benzene	50	54.0	108	74-124
108-86-1	Bromobenzene	50	48.7	97	80-117
74-97-5	Bromochloromethane	50	55.5	111	73-130
75-27-4	Bromodichloromethane	50	55.9	112	76-136
75-25-2	Bromoform	50	53.2	106	63-139
74-83-9	Bromomethane	50	51.0	102	49-161
78-93-3	2-Butanone (MEK)	50	78.7	157	44-191
104-51-8	n-Butylbenzene	50	56.9	114	84-134
135-98-8	sec-Butylbenzene	50	52.8	106	76-125
98-06-6	tert-Butylbenzene	50	52.4	105	74-123
75-15-0	Carbon disulfide	50	53.3	107	45-138
56-23-5	Carbon tetrachloride	50	61.5	123	64-149
108-90-7	Chlorobenzene	50	48.9	98	73-114
75-00-3	Chloroethane	50	51.7	103	43-165
67-66-3	Chloroform	50	55.2	110	72-132
74-87-3	Chloromethane	50	46.5	93	30-173
95-49-8	o-Chlorotoluene	50	49.6	99	75-116
106-43-4	p-Chlorotoluene	50	50.4	101	78-116
96-12-8	1,2-Dibromo-3-chloropropane	50	61.2	122	50-157
124-48-1	Dibromochloromethane	50	47.8	96	75-133
106-93-4	1,2-Dibromoethane	50	51.7	103	72-133
95-50-1	1,2-Dichlorobenzene	50	53.4	107	73-122
541-73-1	1,3-Dichlorobenzene	50	50.7	101	76-117
106-46-7	1,4-Dichlorobenzene	50	50.7	101	74-120
75-71-8	Dichlorodifluoromethane	50	17.7	35	30-180
75-34-3	1,1-Dichloroethane	50	55.2	110	62-130
107-06-2	1,2-Dichloroethane	50	53.9	108	65-140
75-35-4	1,1-Dichloroethene	50	60.2	120	57-132
156-59-2	cis-1,2-Dichloroethene	50	57.3	115	72-131
156-60-5	trans-1,2-Dichloroethene	50	57.2	114	69-127
78-87-5	1,2-Dichloropropane	50	55.5	111	74-130
142-28-9	1,3-Dichloropropane	50	52.9	106	80-129
594-20-7	2,2-Dichloropropane	50	62.5	125	54-162
563-58-6	1,1-Dichloropropene	50	54.3	109	75-116
10061-01-5	cis-1,3-Dichloropropene	50	60.6	121	86-141

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-BS	H75434.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.6	107	80-134
100-41-4	Ethylbenzene	50	53.1	106	76-125
87-68-3	Hexachlorobutadiene	50	65.1	130	64-154
591-78-6	2-Hexanone	50	69.1	138	35-200
74-88-4	Iodomethane	50	55.5	111	50-154
98-82-8	Isopropylbenzene	50	50.0	100	74-121
99-87-6	p-Isopropyltoluene	50	53.9	108	84-128
1634-04-4	Methyl Tert Butyl Ether	50	59.0	118	67-145
108-10-1	4-Methyl-2-pentanone (MIBK)	50	57.5	115	61-155
74-95-3	Methylene bromide	50	56.6	113	75-124
75-09-2	Methylene chloride	50	57.5	115	62-137
91-20-3	Naphthalene	50	62.1	124	24-164
103-65-1	n-Propylbenzene	50	49.2	98	76-120
100-42-5	Styrene	50	49.7	99	74-132
630-20-6	1,1,1,2-Tetrachloroethane	50	53.5	107	71-136
79-34-5	1,1,2,2-Tetrachloroethane	50	53.9	108	65-145
127-18-4	Tetrachloroethene	50	53.6	107	73-122
108-88-3	Toluene	50	57.3	115	80-122
87-61-6	1,2,3-Trichlorobenzene	50	63.2	126	33-170
120-82-1	1,2,4-Trichlorobenzene	50	63.2	126	43-159
71-55-6	1,1,1-Trichloroethane	50	59.6	119	68-137
79-00-5	1,1,2-Trichloroethane	50	56.7	113	76-134
79-01-6	Trichloroethene	50	55.2	110	80-125
75-69-4	Trichlorofluoromethane	50	43.2	86	56-166
96-18-4	1,2,3-Trichloropropane	50	53.1	106	65-147
95-63-6	1,2,4-Trimethylbenzene	50	54.0	108	79-124
108-67-8	1,3,5-Trimethylbenzene	50	55.5	111	80-130
108-05-4	Vinyl Acetate	50	65.9	132	72-200
75-01-4	Vinyl chloride	50	44.4	89	39-176
	m,p-Xylene	100	110	110	75-121
95-47-6	o-Xylene	50	51.6	103	71-123
1330-20-7	Xylene (total)	150	162	108	74-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-BS	H75434.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	79-127%
2037-26-5	Toluene-D8	106%	80-116%
460-00-4	4-Bromofluorobenzene	96%	77-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41757-3MS	H75455.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3MSD	H75456.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Compound	MC41757-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	U	50	43.5	87	50	42.2	84	3	10-156/30
71-43-2	Benzene	0.50	U	50	55.6	111	50	53.3	107	4	63-135/30
108-86-1	Bromobenzene	5.0	U	50	47.8	96	50	45.9	92	4	75-116/30
74-97-5	Bromochloromethane	5.0	U	50	59.0	118	50	55.3	111	6	67-136/30
75-27-4	Bromodichloromethane	1.0	U	50	58.2	116	50	54.7	109	6	69-140/30
75-25-2	Bromoform	1.0	U	50	52.1	104	50	52.3	105	0	57-138/30
74-83-9	Bromomethane	2.0	U	50	49.2	98	50	55.7	111	12	25-169/30
78-93-3	2-Butanone (MEK)	10	U	50	57.5	115	50	52.7	105	9	23-159/30
104-51-8	n-Butylbenzene	5.0	U	50	54.7	109	50	51.7	103	6	75-135/30
135-98-8	sec-Butylbenzene	5.0	U	50	50.9	102	50	48.3	97	5	70-125/30
98-06-6	tert-Butylbenzene	5.0	U	50	50.9	102	50	47.8	96	6	64-128/30
75-15-0	Carbon disulfide	5.0	U	50	50.2	100	50	47.3	95	6	40-139/30
56-23-5	Carbon tetrachloride	1.0	U	50	63.4	127	50	59.4	119	7	60-149/30
108-90-7	Chlorobenzene	1.0	U	50	48.5	97	50	46.2	92	5	70-115/30
75-00-3	Chloroethane	2.0	U	50	50.5	101	50	58.3	117	14	37-175/30
67-66-3	Chloroform	1.0	U	50	59.9	120	50	55.9	112	7	64-141/30
74-87-3	Chloromethane	2.0	U	50	44.8	90	50	52.8	106	16	21-178/30
95-49-8	o-Chlorotoluene	5.0	U	50	49.1	98	50	47.2	94	4	60-130/30
106-43-4	p-Chlorotoluene	5.0	U	50	50.1	100	50	47.8	96	5	70-120/30
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	50	60.1	120	50	54.3	109	10	51-156/30
124-48-1	Dibromochloromethane	1.0	U	50	47.2	94	50	45.0	90	5	70-131/30
106-93-4	1,2-Dibromoethane	1.0	U	50	51.4	103	50	49.2	98	4	72-131/30
95-50-1	1,2-Dichlorobenzene	1.0	U	50	52.9	106	50	49.3	99	7	68-122/30
541-73-1	1,3-Dichlorobenzene	1.0	U	50	51.0	102	50	47.7	95	7	71-117/30
106-46-7	1,4-Dichlorobenzene	1.0	U	50	51.0	102	50	47.3	95	8	69-120/30
75-71-8	Dichlorodifluoromethane	2.0	U	50	19.0	38	50	21.6	43	13	28-181/30
75-34-3	1,1-Dichloroethane	1.0	U	50	57.6	115	50	54.9	110	5	56-138/30
107-06-2	1,2-Dichloroethane	1.0	U	50	57.3	115	50	54.2	108	6	60-146/30
75-35-4	1,1-Dichloroethene	1.0	U	50	59.8	120	50	57.3	115	4	52-137/30
156-59-2	cis-1,2-Dichloroethene	0.44		50	59.9	119	50	56.9	113	5	64-139/30
156-60-5	trans-1,2-Dichloroethene	1.0	U	50	57.6	115	50	55.3	111	4	63-132/30
78-87-5	1,2-Dichloropropane	2.0	U	50	56.5	113	50	53.1	106	6	67-137/30
142-28-9	1,3-Dichloropropane	5.0	U	50	53.1	106	50	49.6	99	7	78-130/30
594-20-7	2,2-Dichloropropane	5.0	U	50	57.6	115	50	53.2	106	8	36-166/30
563-58-6	1,1-Dichloropropene	5.0	U	50	53.9	108	50	53.0	106	2	68-123/30
10061-01-5	cis-1,3-Dichloropropene	0.50	U	50	58.1	116	50	54.0	108	7	77-142/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41757-3MS	H75455.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3MSD	H75456.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Compound	MC41757-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	0.50	U	50	51.0	102	50	46.9	94	8	73-136/30
100-41-4	Ethylbenzene	1.0	U	50	52.7	105	50	49.9	100	5	60-136/30
87-68-3	Hexachlorobutadiene	5.0	U	50	53.4	107	50	53.5	107	0	63-143/30
591-78-6	2-Hexanone	10	U	50	47.5	95	50	48.0	96	1	29-151/30
74-88-4	Iodomethane	5.0	U	50	54.9	110	50	53.4	107	3	37-158/30
98-82-8	Isopropylbenzene	5.0	U	50	48.3	97	50	45.4	91	6	67-123/30
99-87-6	p-Isopropyltoluene	5.0	U	50	52.0	104	50	49.3	99	5	78-126/30
1634-04-4	Methyl Tert Butyl Ether	1.0	U	50	59.2	118	50	56.8	114	4	60-156/30
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	50	55.5	111	50	52.0	104	7	47-167/30
74-95-3	Methylene bromide	5.0	U	50	58.6	117	50	55.3	111	6	70-130/30
75-09-2	Methylene chloride	2.0	U	50	59.6	119	50	56.4	113	6	55-144/30
91-20-3	Naphthalene	5.0	U	50	53.3	107	50	49.8	100	7	23-167/30
103-65-1	n-Propylbenzene	5.0	U	50	48.3	97	50	45.8	92	5	66-124/30
100-42-5	Styrene	5.0	U	50	45.7	91	50	45.7	91	0	61-137/30
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	50	54.7	109	50	52.7	105	4	71-132/30
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	50	55.2	110	50	53.5	107	3	62-149/30
127-18-4	Tetrachloroethene	1.0	U	50	49.7	99	50	47.9	96	4	65-124/30
108-88-3	Toluene	1.0	U	50	55.5	111	50	50.8	102	9	69-134/30
87-61-6	1,2,3-Trichlorobenzene	5.0	U	50	55.7	111	50	50.3	101	10	41-157/30
120-82-1	1,2,4-Trichlorobenzene	5.0	U	50	55.7	111	50	50.3	101	10	46-147/30
71-55-6	1,1,1-Trichloroethane	1.0	U	50	62.8	126	50	58.4	117	7	61-144/30
79-00-5	1,1,2-Trichloroethane	1.0	U	50	57.0	114	50	51.6	103	10	69-142/30
79-01-6	Trichloroethene	1.0	U	50	56.2	112	50	54.6	109	3	69-133/30
75-69-4	Trichlorofluoromethane	1.0	U	50	44.8	90	50	51.0	102	13	60-163/30
96-18-4	1,2,3-Trichloropropane	5.0	U	50	52.5	105	50	51.1	102	3	57-150/30
95-63-6	1,2,4-Trimethylbenzene	5.0	U	50	52.2	104	50	49.4	99	6	67-130/30
108-67-8	1,3,5-Trimethylbenzene	5.0	U	50	52.8	106	50	50.6	101	4	66-137/30
108-05-4	Vinyl Acetate	5.0	U	50	61.8	124	50	58.8	118	5	48-200/30
75-01-4	Vinyl chloride	1.0	U	50	44.6	89	50	52.2	104	16	39-176/30
	m,p-Xylene	1.0	U	100	108	108	100	103	103	5	64-128/30
95-47-6	o-Xylene	1.0	U	50	51.0	102	50	50.0	100	2	64-126/30
1330-20-7	Xylene (total)	1.0	U	150	159	106	150	153	102	4	65-127/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41757-3MS	H75455.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3MSD	H75456.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC41757-1, MC41757-2, MC41757-3, MC41757-4, MC41757-5, MC41757-6

CAS No.	Surrogate Recoveries	MS	MSD	MC41757-3	Limits
1868-53-7	Dibromofluoromethane	109%	108%	113%	79-127%
2037-26-5	Toluene-D8	102%	99%	98%	80-116%
460-00-4	4-Bromofluorobenzene	96%	96%	94%	77-124%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample: MSH2500-BFB
Lab File ID: H75150.D
Instrument ID: GCMSH
Injection Date: 09/25/15
Injection Time: 14:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14709	20.7		Pass
75	30.0 - 60.0% of mass 95	36365	51.3		Pass
95	Base peak, 100% relative abundance	70914	100.0		Pass
96	5.0 - 9.0% of mass 95	5116	7.21		Pass
173	Less than 2.0% of mass 174	145	0.20	(0.24) [a]	Pass
174	50.0 - 150.0% of mass 95	60112	84.8		Pass
175	5.0 - 9.0% of mass 174	4433	6.25	(7.37) [a]	Pass
176	95.0 - 101.0% of mass 174	60160	84.8	(100.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4035	5.69	(6.71) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2500-IC2500	H75151.D	09/25/15	15:22	00:26	Initial cal 0.5
MSH2500-IC2500	H75152.D	09/25/15	15:49	00:53	Initial cal 1
MSH2500-IC2500	H75153.D	09/25/15	16:16	01:20	Initial cal 2
MSH2500-IC2500	H75154.D	09/25/15	16:42	01:46	Initial cal 5
MSH2500-IC2500	H75155.D	09/25/15	17:09	02:13	Initial cal 10
MSH2500-IC2500	H75156.D	09/25/15	17:35	02:39	Initial cal 20
MSH2500-ICC2500	H75157.D	09/25/15	18:02	03:06	Initial cal 50
MSH2500-IC2500	H75158.D	09/25/15	18:29	03:33	Initial cal 100
MSH2500-IC2500	H75159.D	09/25/15	18:56	04:00	Initial cal 200
MSH2500-IC2500	H75160.D	09/25/15	19:22	04:26	Initial cal 400
MSH2500-ICV2500	H75163.D	09/25/15	20:41	05:45	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Sample: MSH2511-BFB
Lab File ID: H75433.D
Instrument ID: GCMSH
Injection Date: 10/07/15
Injection Time: 10:39

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16415	20.8		Pass
75	30.0 - 60.0% of mass 95	39864	50.4		Pass
95	Base peak, 100% relative abundance	79096	100.0		Pass
96	5.0 - 9.0% of mass 95	5508	6.96		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	67839	85.8		Pass
175	5.0 - 9.0% of mass 174	4980	6.30	(7.34) [a]	Pass
176	95.0 - 101.0% of mass 174	66620	84.2	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	4856	6.14	(7.29) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2511-CC2500	H75433.D	10/07/15	10:39	00:00	Continuing cal 50
MSH2511-BS	H75434.D	10/07/15	11:05	00:26	Blank Spike
MSH2511-MB	H75437.D	10/07/15	12:25	01:46	Method Blank
MC41757-5	H75438.D	10/07/15	12:52	02:13	FIELD BLANK
MC41757-6	H75439.D	10/07/15	13:18	02:39	TRIP BLANK
ZZZZZZ	H75440.D	10/07/15	13:45	03:06	(unrelated sample)
ZZZZZZ	H75441.D	10/07/15	14:11	03:32	(unrelated sample)
ZZZZZZ	H75442.D	10/07/15	14:38	03:59	(unrelated sample)
ZZZZZZ	H75444.D	10/07/15	15:32	04:53	(unrelated sample)
ZZZZZZ	H75445.D	10/07/15	15:58	05:19	(unrelated sample)
ZZZZZZ	H75446.D	10/07/15	16:25	05:46	(unrelated sample)
ZZZZZZ	H75447.D	10/07/15	16:51	06:12	(unrelated sample)
ZZZZZZ	H75448.D	10/07/15	17:18	06:39	(unrelated sample)
ZZZZZZ	H75449.D	10/07/15	17:44	07:05	(unrelated sample)
ZZZZZZ	H75450.D	10/07/15	18:10	07:31	(unrelated sample)
MC41757-1	H75451.D	10/07/15	18:37	07:58	78-SW-006
MC41757-2	H75452.D	10/07/15	19:04	08:25	78-SW-005
MC41757-3	H75453.D	10/07/15	19:30	08:51	78-SW-004
MC41757-4	H75454.D	10/07/15	19:57	09:18	DUP-RI-SW
MC41757-3MS	H75455.D	10/07/15	20:23	09:44	Matrix Spike
MC41757-3MSD	H75456.D	10/07/15	20:50	10:11	Matrix Spike Duplicate
MSH2511-ECC2500	H75457.D	10/07/15	21:16	10:37	Ending cal 50

Volatile Internal Standard Area Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Check Std:	MSH2511-CC2500	**Injection Date:**	10/07/15
Lab File ID:	H75433.D	**Injection Time:**	10:39
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	172453	8.61	274118	9.48	170268	12.73	152953	15.30	79166	6.19
Upper Limit [a]	344906	9.11	548236	9.98	340536	13.23	305906	15.80	158332	6.69
Lower Limit [b]	86227	8.11	137059	8.98	85134	12.23	76477	14.80	39583	5.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2511-BS	175610	8.61	276038	9.48	175091	12.73	155953	15.30	76507	6.19
MSH2511-MB	173600	8.61	275034	9.48	157450	12.73	141441	15.30	81139	6.20
MC41757-5	163621	8.61	259858	9.48	153372	12.73	135780	15.30	73057	6.19
MC41757-6	153913	8.61	244821	9.48	150690	12.73	129317	15.30	64864	6.19
ZZZZZZ	153237	8.61	246849	9.48	148541	12.73	127907	15.30	68947	6.19
ZZZZZZ	148683	8.61	238006	9.48	142425	12.74	125508	15.30	65524	6.19
ZZZZZZ	151124	8.61	239701	9.48	148883	12.73	140615	15.30	67997	6.19
ZZZZZZ	145978	8.62	233573	9.48	139325	12.73	121033	15.30	62629	6.19
ZZZZZZ	145585	8.61	233870	9.48	136877	12.73	121164	15.30	64875	6.19
ZZZZZZ	147063	8.61	234934	9.48	140312	12.73	123277	15.30	64170	6.19
ZZZZZZ	142448	8.61	228330	9.48	137760	12.73	121673	15.30	63201	6.19
ZZZZZZ	137787	8.61	225119	9.48	136331	12.73	126680	15.30	94256	6.21
ZZZZZZ	146261	8.61	238904	9.48	140499	12.73	124785	15.30	63957	6.21
ZZZZZZ	144971	8.61	234718	9.48	130630	12.73	122426	15.30	59977	6.20
MC41757-1	137797	8.62	220702	9.48	135660	12.73	116815	15.30	58436	6.20
MC41757-2	138231	8.61	223837	9.48	134179	12.73	117960	15.30	58340	6.20
MC41757-3	136792	8.61	226237	9.48	132166	12.73	118683	15.30	58544	6.19
MC41757-4	133911	8.61	219560	9.48	134600	12.74	116679	15.30	57922	6.19
MC41757-3MS	140270	8.61	227040	9.48	144781	12.73	129293	15.30	57487	6.20
MC41757-3MSD	159850	8.61	254089	9.48	156676	12.73	146257	15.30	69973	6.19
MSH2511-ECC2500	162515	8.61	263321	9.48	156593	12.73	142792	15.30	71201	6.19

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC41757
Account: EAENYS EA Engineering
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC41757-1	H75451.D	109	107	96
MC41757-2	H75452.D	108	102	95
MC41757-3	H75453.D	113	98	94
MC41757-4	H75454.D	112	107	95
MC41757-5	H75438.D	104	104	95
MC41757-6	H75439.D	107	107	97
MC41757-3MS	H75455.D	109	102	96
MC41757-3MSD	H75456.D	108	99	96
MSH2511-BS	H75434.D	103	106	96
MSH2511-MB	H75437.D	103	99	96

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-127%
S2 = Toluene-D8	80-116%
S3 = 4-Bromofluorobenzene	77-124%

Initial Calibration Summary

Job Number: MC41757 **Sample:** MSH2500-ICC2500
Account: EAENYS EA Engineering **Lab FileID:** H75157.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

```
                         Response Factor Report  MSH

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Calibration Files
2   =H75153.D    0.5 =H75151.D    1   =H75152.D    5   =H75154.D
10  =H75155.D    20  =H75156.D    50  =H75157.D    100 =H75158.D
200 =H75159.D    400 =H75160.D        =                =

Compound
            2     0.5   1     5     10    20    50    100   200   400    Avg    %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
          1.053             1.235 1.246 1.152 1.073 1.146 1.141 1.193  1.155    5.97
3)  Ethanol
          0.102             0.134 0.143 0.165 0.124 0.130 0.155 0.163  0.139   15.30
           ---- Linear regression ----  Coefficient =  0.9928
             Response Ratio = -0.02818 + 0.15494 *A


4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  dichlorodifluoromethane
          0.404             0.687 0.630 0.568 0.550 0.537 0.512 0.542  0.554   15.00
           ---- Linear regression ----  Coefficient =  0.9982
             Response Ratio = 0.00339 + 0.53493 *A

6)  chloromethane
          0.478             0.707 0.620 0.547 0.487 0.443 0.399 0.369  0.506   22.43
           ---- Quadratic regression ----  Coefficient =  0.9956
             Response Ratio = 0.01085 + 0.47326 *A + -0.01384 *A^2

7)  vinyl chloride
          0.378       0.378 0.659 0.606 0.532 0.522 0.521 0.455 0.422  0.497   19.65
           ---- Quadratic regression ----  Coefficient =  0.9979
             Response Ratio = -0.00139 + 0.53784 *A + -0.01504 *A^2

8)  bromomethane
          0.235             0.425 0.380 0.350 0.336 0.321 0.295 0.303  0.330   17.35
           ---- Linear regression ----  Coefficient =  0.9966
             Response Ratio = 0.00444 + 0.30584 *A

9)  chloroethane
          0.227             0.380 0.356 0.317 0.313 0.316 0.302 0.336  0.318   14.19
10)  acetonitrile
                                                                       0.000#  -1.00
           ---- Linear regression ----  Coefficient =  0.0000
             Response Ratio = 0.00000 + 0.00000 *A

11)  trichlorofluoromethane
          0.540       0.570 0.952 0.894 0.776 0.776 0.777 0.738 0.804  0.759   17.59
           ---- Linear regression ----  Coefficient =  0.9979
             Response Ratio = -0.00240 + 0.78383 *A

12)  freon-113
                            0.531 0.514 0.502 0.469 0.483 0.482 0.489  0.496    4.29
```

Initial Calibration Summary

Job Number: MC41757 **Sample:** MSH2500-ICC2500
Account: EAENYS EA Engineering **Lab FileID:** H75157.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

```
13)  acrolein
                            0.019 0.020 0.020 0.023 0.024 0.024 0.026  0.022#  12.13
14)  1,1-dichloroethene
           0.368       0.406 0.472 0.453 0.447 0.417 0.433 0.428 0.439  0.429    7.04
15)  acetone
                            0.041 0.064 0.048 0.052 0.055 0.054 0.058  0.053#  13.87
16)  ethyl ether
                            0.427 0.441 0.422 0.414 0.431 0.423 0.442  0.429    2.40
17)  methyl acetate
                            0.551 0.590 0.453 0.439 0.462 0.462 0.462  0.488   11.83
18)  methylene chloride
           0.529            0.614 0.588 0.551 0.506 0.518 0.507 0.533  0.543    7.25
19)  methyl tert butyl ether
           1.180       1.319 1.407 1.405 1.335 1.283 1.351 1.332 1.403  1.335    5.42
20)  acrylonitrile
                            0.157 0.178 0.191 0.203 0.215 0.210 0.221  0.196   11.48
21)  allyl chloride
                            0.962 0.951 0.922 0.833 0.860 0.840 0.838  0.887    6.38
22)  trans-1,2-dichloroethene
           0.444       0.504 0.506 0.494 0.490 0.452 0.471 0.463 0.481  0.478    4.69
23)  iodomethane
                            0.794 0.783 0.766 0.726 0.761 0.754 0.798  0.769    3.27
24)  carbon disulfide
                            1.653 1.615 1.605 1.478 1.551 1.520 1.567  1.570    3.80
25)  propionitrile
                                  0.050 0.058 0.064 0.073 0.076 0.080  0.067   17.39
             ---- Linear regression ----  Coefficient =  0.9985
               Response Ratio = -0.00795 + 0.07952 *A

26)  vinyl acetate
                            0.950 0.953 0.881 0.919 0.918 0.964 1.007  0.942    4.27
27)  chloroprene
                            0.820 0.828 0.829 0.803 0.844 0.835 0.829  0.827    1.58
28)  di-isopropyl ether
           1.536            1.924 1.927 1.842 1.729 1.771 1.716 1.657  1.763    7.59
29)  methacrylonitrile
                            0.375 0.361 0.317 0.318 0.336 0.328 0.337  0.339    6.43
30)  2-butanone
                                  0.048 0.055 0.061 0.064 0.065 0.067  0.060#  11.74
31)  1,1-dichloroethane
           0.911       1.029 1.074 1.052 1.003 0.915 0.948 0.928 0.949  0.979    6.33
32)  tert-butyl ethyl ether
           1.363            1.678 1.718 1.640 1.596 1.705 1.690 1.725  1.639    7.29
33)  Hexane
                            1.023 0.970 0.945 0.877 0.873 0.832 0.775  0.899    9.46
34)  isobutyl alcohol
                            0.068 0.061 0.047 0.043 0.043 0.041 0.040  0.049#  22.01
             ---- Linear regression ----  Coefficient =  0.9994
               Response Ratio = 0.01597 + 0.04024 *A

35)  2,2-dichloropropane
                            0.762 0.735 0.732 0.681 0.713 0.704 0.716  0.720    3.56
36)  cis-1,2-dichloroethene
           0.481       0.550 0.566 0.557 0.538 0.497 0.515 0.505 0.525  0.526    5.51
37)  ethyl acetate
                            0.329 0.297 0.260 0.219 0.219 0.207 0.201  0.248   20.04
             ---- Linear regression ----  Coefficient =  0.9991
               Response Ratio = 0.01636 + 0.20226 *A

38)  bromochloromethane
```

```
                              0.270 0.277 0.258 0.241 0.251 0.244 0.257  0.257    5.16
39)  chloroform
           0.878       1.048 1.013 1.001 0.944 0.876 0.910 0.886 0.910  0.941    6.86
40)  dibromofluoromethane (s)
           0.511 0.517 0.517 0.513 0.515 0.507 0.505 0.497 0.484 0.491  0.506    2.30
41)  1,1,1-trichloroethane
           0.633       0.751 0.789 0.788 0.778 0.729 0.757 0.748 0.766  0.749    6.37

42) I   1,4-difluorobenzene   ----------------ISTD---------------------
43)  cyclohexane
                              0.604 0.596 0.594 0.567 0.588 0.601 0.598  0.593    2.08
44)  carbon tetrachloride
           0.287       0.347 0.403 0.394 0.403 0.388 0.417 0.435 0.452  0.392   12.53
45)  1,1-dichloropropene
                              0.433 0.421 0.432 0.413 0.436 0.442 0.448  0.432    2.76
46)  benzene
           1.150 1.216 1.305 1.384 1.331 1.306 1.208 1.261 1.276 1.276  1.271    5.27
47)  tetrahydrofuran
                              0.108 0.113 0.104 0.104 0.106 0.103 0.104  0.106    3.50
48)  1,2-dichloroethane
           0.440       0.498 0.529 0.511 0.482 0.443 0.455 0.451 0.458  0.474    6.80
49)  tert-amyl methyl ether
           0.689             0.864 0.878 0.850 0.854 0.905 0.916 0.958  0.864    9.21
50)  heptane
                              0.485 0.452 0.459 0.430 0.436 0.444 0.426  0.448    4.54
51)  trichloroethene
           0.296 0.271 0.335 0.364 0.346 0.353 0.325 0.341 0.345 0.355  0.333    8.66
52)  1,2-dichloropropane
           0.331             0.377 0.373 0.355 0.331 0.345 0.352 0.360  0.353    4.85
53)  dibromomethane
           0.184       0.197 0.228 0.226 0.216 0.205 0.213 0.215 0.221  0.212    6.72
54)  bromodichloromethane
           0.343             0.423 0.436 0.430 0.416 0.437 0.445 0.461  0.424    8.36
55)  methylcyclohexane
                              0.549 0.528 0.541 0.515 0.535 0.557 0.563  0.541    3.07
56)  2-chloroethyl vinyl ether
                              0.232 0.213 0.209 0.227 0.227 0.236 0.252  0.228    6.35
57)  methyl methacrylate
                              0.192 0.213 0.212 0.215 0.227 0.239 0.249  0.221    8.54
58)  1,4-dioxane
                                    0.002 0.003 0.003 0.003 0.003 0.004  0.003#  21.13
            ---- Linear regression ----  Coefficient =  0.9957
              Response Ratio = -0.00209 + 0.00346 *A

59)  cis-1,3-dichloropropene
           0.389 0.352 0.421 0.490 0.505 0.500 0.483 0.514 0.528 0.551  0.473   13.61
60)  toluene-d8 (s)
           1.218 1.218 1.174 1.242 1.233 1.246 1.215 1.193 1.200 1.190  1.213    1.95
61)  4-methyl-2-pentanone
                              0.382 0.367 0.358 0.332 0.346 0.353 0.372  0.358    4.71
62)  toluene
           0.690       0.774 0.834 0.805 0.798 0.737 0.762 0.791 0.798  0.777    5.50
63)  trans-1,3-dichloropropene
           0.326 0.256 0.330 0.433 0.459 0.467 0.455 0.492 0.508 0.524  0.425   21.12
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00310 + 0.47513 *A + 0.00639 *A^2

64)  1,1,2-trichloroethane
           0.232       0.248 0.283 0.274 0.267 0.246 0.253 0.257 0.265  0.258    6.02
65)  ethyl methacrylate
```

```
                              0.368 0.393 0.400 0.407 0.443 0.464 0.487  0.423   10.07

66) I   chlorobenzene-d5      ----------------ISTD---------------------
67)  tetrachloroethene
           0.492 0.481 0.597 0.638 0.620 0.605 0.571 0.617 0.652 0.690  0.596   11.12
68)  1,3-dichloropropane
                              0.950 0.949 0.881 0.821 0.872 0.882 0.913  0.895    5.13
69)  dibromochloromethane
           0.372 0.299 0.406 0.465 0.501 0.494 0.493 0.556 0.581 0.631  0.480   20.81
            ---- Linear regression ----  Coefficient =  0.9947
              Response Ratio = -0.00601 + 0.59655 *A

70)  1,2-dibromoethane
           0.440              0.548 0.554 0.512 0.491 0.542 0.548 0.582  0.527    8.49
71)  2-hexanone
                                   0.433 0.410 0.413 0.431 0.434 0.476  0.433    5.45
72)  chlorobenzene
           1.410       1.740 1.692 1.626 1.556 1.435 1.555 1.589 1.679  1.587    7.08
73)  1,1,1,2-tetrachloroethane
           0.376       0.467 0.489 0.502 0.484 0.468 0.514 0.529 0.590  0.491   11.70
74)  ethylbenzene
           2.069       2.430 2.603 2.574 2.574 2.439 2.697 2.744 2.781  2.546    8.50
75)  m,p-xylene
           0.744 0.760 0.904 0.996 0.999 0.984 0.948 1.061 1.093 1.062  0.955   12.66
76)  o-xylene
           0.792 0.811 0.957 1.007 1.048 1.000 0.954 1.053 1.076 1.102  0.980   10.76
77)  styrene
                              1.506 1.604 1.589 1.510 1.718 1.755 1.857  1.648    8.01
78)  bromoform
           0.186       0.210 0.258 0.285 0.280 0.314 0.369 0.389 0.451  0.305   28.16
            ---- Quadratic regression ----  Coefficient =  0.9993
              Response Ratio = -0.00421 + 0.31963 *A + 0.01671 *A^2

79)  trans-1,4-dichloro-2-butene
                              0.108 0.131 0.143 0.168 0.198 0.201 0.209  0.165   23.72
            ---- Linear regression ----  Coefficient =  0.9976
              Response Ratio = -0.01482 + 0.20626 *A


80) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
81)  isopropylbenzene
                              2.729 2.728 2.750 2.588 2.939 3.214 3.373  2.903    9.98
82)  bromofluorobenzene (s)
           0.955 0.960 0.956 0.956 0.956 0.954 0.944 1.016 1.081 1.127  0.990    6.46
83)  bromobenzene
                              0.774 0.761 0.741 0.700 0.795 0.870 0.976  0.802   11.54
84)  1,1,2,2-tetrachloroethane
           0.621 0.547 0.716 0.771 0.745 0.697 0.671 0.727 0.771 0.813  0.708   11.12
85)  1,2,3-trichloropropane
                              0.707 0.741 0.713 0.736 0.839 0.901 0.990  0.804   13.57
86)  n-propylbenzene
                              3.198 3.147 3.230 3.093 3.488 3.790 4.024  3.424   10.48
87)  2-chlorotoluene
                              2.003 2.002 1.962 1.834 2.012 2.151 2.372  2.048    8.32
88)  4-chlorotoluene
                              2.095 2.066 2.023 1.932 2.166 2.315 2.486  2.155    8.77
89)  1,3,5-trimethylbenzene
           1.758       2.062 2.296 2.282 2.330 2.185 2.369 2.526 2.721  2.281   11.95
90)  tert-butylbenzene
                              1.349 1.361 1.374 1.288 1.370 1.445 1.545  1.390    5.91
```

Initial Calibration Summary

Job Number: MC41757 **Sample:** MSH2500-ICC2500
Account: EAENYS EA Engineering **Lab FileID:** H75157.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

```
 91)  1,2,4-trimethylbenzene
            1.784       2.087 2.303 2.352 2.345 2.229 2.386 2.479 2.633  2.289   10.60
 92)  sec-butylbenzene
                                2.887 2.926 2.975 2.780 2.927 3.019 3.183  2.957    4.21
 93)  1,3-dichlorobenzene
            1.158       1.454 1.405 1.372 1.341 1.260 1.357 1.401 1.473  1.358    7.20
 94)  p-isopropyltoluene
                                2.488 2.471 2.476 2.375 2.508 2.554 2.530  2.486    2.31
 95)  1,4-dichlorobenzene
            1.349       1.694 1.560 1.526 1.476 1.356 1.453 1.484 1.433  1.481    7.16
 96)  1,2-dichlorobenzene
            1.116       1.322 1.340 1.350 1.293 1.189 1.195 1.148 1.145  1.233    7.51
 97)  n-butylbenzene
                                2.199 2.234 2.281 2.172 2.234 2.157 2.149  2.204    2.21
 98)  1,2-dibromo-3-chloropropane
                                0.069 0.080 0.075 0.073 0.068 0.057        0.070   10.93
 99)  1,3,5-trichlorobenzene
                                0.825 0.867 0.835 0.759 0.683 0.577        0.758   14.53
100)  1,2,4-trichlorobenzene
                                0.446 0.470 0.452 0.410 0.353 0.279 0.178  0.370   29.08
             ---- Quadratic regression ----  Coefficient =  0.9973
               Response Ratio = 0.01023 + 0.40664 *A + -0.02908 *A^2

101)  hexachlorobutadiene
                                0.350 0.344 0.348 0.298 0.227 0.161        0.288   27.08
             ---- Quadratic regression ----  Coefficient =  0.9955
               Response Ratio = 0.00579 + 0.32262 *A + -0.04142 *A^2

102)  naphthalene
                                0.691 0.729 0.696 0.644 0.519 0.387 0.227  0.556   33.94
             ---- Quadratic regression ----  Coefficient =  0.9926
               Response Ratio = 0.02029 + 0.61009 *A + -0.04906 *A^2

103)  1,2,3-trichlorobenzene
                                0.446 0.470 0.452 0.410 0.353 0.279 0.178  0.370   29.08
             ---- Quadratic regression ----  Coefficient =  0.9973
               Response Ratio = 0.01023 + 0.40664 *A + -0.02908 *A^2

104)  2-Methylnaphthalene
                                                                           0.000#  -1.00
105)  1-Methylnaphthalene
                                                                           0.000#  -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           H150925W.M        Tue Sep 29 16:09:12 2015
```

Initial Calibration Verification

Job Number: MC41757 **Sample:** MSH2500-ICV2500
Account: EAENYS EA Engineering **Lab FileID:** H75163.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H150925\H75163.D          Vial: 15
Acq On    : 25 Sep 2015   8:41 pm                   Operator: kaylap
Sample    : icv2500-50                              Inst    : MSH
Misc      : ms35302,msh2500,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	113	0.00	6.19
2	p	tertiary butyl alcohol	1.155	1.182	-2.3	124	0.00	6.27
		----------	Amount	Calc.	%Drift		----------	
3	p	Ethanol	5000.000	4444.403	11.1	123	-0.02	5.10
		----------	AvgRF	CCRF	%Dev		----------	
4	I	pentafluorobenzene	1.000	1.000	0.0	114	0.00	8.61
		----------	Amount	Calc.	%Drift		----------	
5	p	dichlorodifluoromethane	50.000	44.159	11.7	98	0.00	4.02
6	P	chloromethane	50.000	54.914	-9.8	120	0.00	4.27
7	p	vinyl chloride	50.000	57.806	-15.6	131	0.00	4.50
8	p	bromomethane	50.000	58.945	-17.9	124	0.00	4.96
		----------	AvgRF	CCRF	%Dev		----------	
9	p	chloroethane	0.318	0.370	-16.4	135	0.00	5.10
		----------	Amount	Calc.	%Drift		----------	
10	p	acetonitrile		----------NA----------				
11	p	trichlorofluoromethane	50.000	50.869	-1.7	117	0.00	5.70
		----------	AvgRF	CCRF	%Dev		----------	
12	p	freon-113	0.496	0.454	8.5	110	0.00	6.47
13	p	acrolein	0.022	0.059	-168.2#	288#	0.00	5.70
14	p	1,1-dichloroethene	0.429	0.402	6.3	110	0.00	6.27
15	p	acetone	0.053	0.070#	-32.1#	156	-0.01	5.83
16	p	ethyl ether	0.429	0.415	3.3	114	0.00	5.93
17	p	methyl acetate	0.488	0.540	-10.7	140	0.00	6.45
18	p	methylene chloride	0.543	0.520	4.2	117	0.01	6.45
19	p	methyl tert butyl ether	1.335	1.439	-7.8	128	0.00	7.20
20	p	acrylonitrile	0.196	0.215	-9.7	121	-0.01	6.33
21	p	allyl chloride	0.887	0.765	13.8	105	0.00	6.51
22	p	trans-1,2-dichloroethene	0.478	0.453	5.2	114	0.00	7.11
23	p	iodomethane	0.769	0.730	5.1	114	0.00	6.37
24	p	carbon disulfide	1.570	1.322	15.8	102	0.00	6.69
		----------	Amount	Calc.	%Drift		----------	
25	p	propionitrile	50.000	51.801	-3.6	132	-0.01	7.38
		----------	AvgRF	CCRF	%Dev		----------	

Initial Calibration Verification

Job Number: MC41757 **Sample:** MSH2500-ICV2500
Account: EAENYS EA Engineering **Lab FileID:** H75163.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	0.971	-3.1	120	0.00	7.46
27	p	chloroprene	0.827	0.740	10.5	105	0.00	7.72
28	p	di-isopropyl ether	1.763	1.824	-3.5	120	0.00	7.76
29	p	methacrylonitrile	0.339	0.335	1.2	120	-0.01	7.87
30	p	2-butanone	0.060	0.071#	-18.3	134	-0.01	7.77
31	P	1,1-dichloroethane	0.979	0.905	7.6	113	0.00	7.35
32	p	tert-butyl ethyl ether	1.639	1.679	-2.4	120	0.00	8.16
33	p	Hexane	0.899	0.789	12.2	102	0.00	7.74
		----------	Amount	Calc.	%Drift		----------	
34	p	isobutyl alcohol	250.000	388.922	-55.6#	173	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
35	p	2,2-dichloropropane	0.720	0.674	6.4	113	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.516	1.9	118	0.00	7.93
		----------	Amount	Calc.	%Drift		----------	
37	p	ethyl acetate	50.000	76.255	-52.5#	169	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
38	p	bromochloromethane	0.257	0.249	3.1	118	0.00	8.09
39	p	chloroform	0.941	0.891	5.3	116	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.485	4.2	109	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.734	2.0	115	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	111	0.00	9.48
43	p	cyclohexane	0.593	0.533	10.1	104	0.00	9.16
44	p	carbon tetrachloride	0.392	0.403	-2.8	115	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.416	3.7	111	0.00	9.05
46	p	benzene	1.271	1.229	3.3	113	0.00	9.27
47	p	tetrahydrofuran	0.106	0.113	-6.6	120	-0.01	8.46
48	p	1,2-dichloroethane	0.474	0.461	2.7	115	0.00	8.78
49	p	tert-amyl methyl ether	0.864	0.928	-7.4	120	0.00	9.40
50	p	heptane	0.448	0.440	1.8	113	0.00	9.76
51	p	trichloroethene	0.333	0.337	-1.2	115	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.357	-1.1	119	0.00	9.86
53	p	dibromomethane	0.212	0.218	-2.8	118	0.00	9.84
54	p	bromodichloromethane	0.424	0.425	-0.2	113	0.00	9.95
55	p	methylcyclohexane	0.541	0.511	5.5	110	0.00	10.41
56	p	2-chloroethyl vinyl ether	0.228	0.253	-11.0	123	0.00	10.33
57	p	methyl methacrylate	0.221	0.246	-11.3	127	0.00	10.05
		----------	Amount	Calc.	%Drift		----------	
58	p	1,4-dioxane	250.000	224.486	10.2	117	0.00	10.05
		----------	AvgRF	CCRF	%Dev		----------	
59	p	cis-1,3-dichloropropene	0.473	0.506	-7.0	116	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.208	0.4	110	0.00	11.28
61	p	4-methyl-2-pentanone	0.358	0.394	-10.1	132	0.00	10.66
62	p	toluene	0.777	0.783	-0.8	118	0.00	11.35
		----------	Amount	Calc.	%Drift		----------	
63	p	trans-1,3-dichloropropene	50.000	47.921	4.2	111	0.00	10.99
		----------	AvgRF	CCRF	%Dev		----------	
64	p	1,1,2-trichloroethane	0.258	0.266	-3.1	119	0.00	11.16
65	p	ethyl methacrylate	0.423	0.482	-13.9	131	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	110	0.00	12.73
67	p	tetrachloroethene	0.596	0.612	-2.7	118	0.00	12.09

Initial Calibration Verification

Job Number: MC41757 **Sample:** MSH2500-ICV2500
Account: EAENYS EA Engineering **Lab FileID:** H75163.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.928	-3.7	124	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	45.298	9.4	119	0.00	11.68
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.547	-3.8	122	0.00	11.94
71	p	2-hexanone	0.433	0.501	-15.7	133	-0.01	11.53
72	P	chlorobenzene	1.587	1.529	3.7	117	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.524	-6.7	123	0.00	12.69
74	p	ethylbenzene	2.546	2.652	-4.2	119	0.00	12.95
75	p	m,p-xylene	0.955	1.029	-7.7	119	0.00	13.13
76	p	o-xylene	0.980	0.989	-0.9	114	0.00	13.54
77	p	styrene	1.648	1.664	-1.0	121	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	53.304	-6.6	124	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	48.642	2.7	122	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.30
81	p	isopropylbenzene	2.903	2.844	2.0	115	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.984	0.6	109	0.00	13.96
83	p	bromobenzene	0.802	0.802	0.0	120	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.790	-11.6	123	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.859	-6.8	122	0.00	13.70
86	p	n-propylbenzene	3.424	3.287	4.0	111	0.00	14.36
87	p	2-chlorotoluene	2.048	1.992	2.7	113	0.00	14.47
88	p	4-chlorotoluene	2.155	2.128	1.3	115	0.00	14.55
89	p	1,3,5-trimethylbenzene	2.281	2.481	-8.8	118	0.00	14.63
90	p	tert-butylbenzene	1.390	1.390	0.0	113	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.410	-5.3	113	0.00	15.04
92	p	sec-butylbenzene	2.957	2.984	-0.9	112	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.360	-0.1	113	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.557	-2.9	112	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.470	0.7	113	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.305	-5.8	114	0.00	15.70
97	p	n-butylbenzene	2.204	2.347	-6.5	113	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.083	-18.6	118	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.769	-1.5	106	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	58.484	-17.0	114	0.00	17.55
101	p	hexachlorobutadiene	50.000	58.589	-17.2	114	0.00	17.85
102	p	naphthalene	50.000	57.539	-15.1	106	0.00	17.82
103	p	1,2,3-trichlorobenzene	50.000	58.484	-17.0	114	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene	0.000	0.022#	0.0	0#	0.00	19.30
105	p	1-Methylnaphthalene	0.000	0.015#	0.0	0#	0.00	19.55

(#) = Out of Range SPCC's out = 4 CCC's out = 0
H75157.D H150925W.M Wed Sep 30 09:17:29 2015

6.7.2

6

Continuing Calibration Summary

Job Number: MC41757 **Sample:** MSH2511-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75433.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H151007\H75433.D          Vial: 1
Acq On    :  7 Oct 2015  10:39 am                   Operator: kaylap
Sample    : cc2500-50                               Inst    : MSH
Misc      : ms35377,msh2511,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	92	0.00	6.19
2	p	tertiary butyl alcohol	1.155	1.141	1.2	98	0.00	6.28
			Amount	Calc.	%Drift			
3	p	Ethanol	5000.000	5120.954	-2.4	115	0.00	5.11
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	86	0.00	8.61
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	51.004	-2.0	86	0.00	4.02
6	P	chloromethane	50.000	52.274	-4.5	86	0.00	4.27
7	p	vinyl chloride	50.000	49.432	1.1	85	0.00	4.50
8	p	bromomethane	50.000	52.850	-5.7	84	0.00	4.96
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.318	0.304	4.4	83	0.00	5.11
			Amount	Calc.	%Drift			
10	p	acetonitrile		----------NA----------				
11	p	trichlorofluoromethane	50.000	44.176	11.6	76	0.00	5.70
			AvgRF	CCRF	%Dev			
12	p	freon-113	0.496	0.462	6.9	85	0.00	6.46
13	p	acrolein	0.022	0.025#	-13.6	92	-0.01	5.69
14	p	1,1-dichloroethene	0.429	0.400	6.8	82	0.00	6.27
15	p	acetone	0.053	0.065#	-22.6#	108	0.00	5.84
16	p	ethyl ether	0.429	0.433	-0.9	90	0.00	5.94
17	p	methyl acetate	0.488	0.504	-3.3	98	0.00	6.45
18	p	methylene chloride	0.543	0.530	2.4	90	0.01	6.45
19	p	methyl tert butyl ether	1.335	1.366	-2.3	91	0.00	7.20
20	p	acrylonitrile	0.196	0.221	-12.8	93	0.00	6.33
21	p	allyl chloride	0.887	0.871	1.8	90	0.00	6.51
22	p	trans-1,2-dichloroethene	0.478	0.451	5.6	86	0.00	7.10
23	p	iodomethane	0.769	0.708	7.9	84	0.00	6.36
24	p	carbon disulfide	1.570	1.435	8.6	83	0.00	6.69
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	52.768	-5.5	101	-0.02	7.37
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: MC41757 **Sample:** MSH2511-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75433.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	1.094	-16.1	102	0.00	7.46
27	p	chloroprene	0.827	0.808	2.3	86	0.00	7.72
28	p	di-isopropyl ether	1.763	1.858	-5.4	92	0.00	7.76
29	p	methacrylonitrile	0.339	0.348	-2.7	94	-0.01	7.87
30	p	2-butanone	0.060	0.069#	-15.0	98	-0.01	7.77
31	P	1,1-dichloroethane	0.979	0.951	2.9	89	0.00	7.35
32	p	tert-butyl ethyl ether	1.639	1.719	-4.9	92	0.00	8.16
33	p	Hexane	0.899	0.894	0.6	87	0.00	7.74
		----------	Amount	Calc.	%Drift		----------	
34	p	isobutyl alcohol	250.000	275.759	-10.3	94	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
35	p	2,2-dichloropropane	0.720	0.747	-3.8	94	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.515	2.1	89	0.00	7.92
		----------	Amount	Calc.	%Drift		----------	
37	p	ethyl acetate	50.000	53.189	-6.4	91	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
38	p	bromochloromethane	0.257	0.253	1.6	90	0.00	8.09
39	p	chloroform	0.941	0.937	0.4	92	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.526	-4.0	89	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.748	0.1	88	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00	9.48
43	p	cyclohexane	0.593	0.533	10.1	82	0.00	9.16
44	p	carbon tetrachloride	0.392	0.398	-1.5	90	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.405	6.2	86	0.00	9.05
46	p	benzene	1.271	1.224	3.7	89	0.00	9.27
47	p	tetrahydrofuran	0.106	0.105	0.9	89	-0.01	8.46
48	p	1,2-dichloroethane	0.474	0.471	0.6	93	0.00	8.78
49	p	tert-amyl methyl ether	0.864	0.888	-2.8	91	0.00	9.40
50	p	heptane	0.448	0.436	2.7	89	0.00	9.76
51	p	trichloroethene	0.333	0.319	4.2	86	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.345	2.3	91	0.00	9.86
53	p	dibromomethane	0.212	0.217	-2.4	93	0.00	9.84
54	p	bromodichloromethane	0.424	0.445	-5.0	93	0.00	9.95
55	p	methylcyclohexane	0.541	0.507	6.3	86	0.00	10.41
56	p	2-chloroethyl vinyl ether	0.228	0.217	4.8	83	0.00	10.33
57	p	methyl methacrylate	0.221	0.231	-4.5	94	0.00	10.05
		----------	Amount	Calc.	%Drift		----------	
58	p	1,4-dioxane	250.000	235.949	5.6	98	0.00	10.06
		----------	AvgRF	CCRF	%Dev		----------	
59	p	cis-1,3-dichloropropene	0.473	0.521	-10.1	94	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.234	-1.7	89	0.00	11.27
61	p	4-methyl-2-pentanone	0.358	0.361	-0.8	95	0.00	10.66
62	p	toluene	0.777	0.758	2.4	90	0.00	11.35
		----------	Amount	Calc.	%Drift		----------	
63	p	trans-1,3-dichloropropene	50.000	52.359	-4.7	96	0.00	10.99
		----------	AvgRF	CCRF	%Dev		----------	
64	p	1,1,2-trichloroethane	0.258	0.267	-3.5	95	0.00	11.16
65	p	ethyl methacrylate	0.423	0.445	-5.2	95	0.00	11.37
66	I	chlorobenzene-d5	1.000	1.000	0.0	92	0.00	12.73
67	p	tetrachloroethene	0.596	0.538	9.7	86	0.00	12.09

Continuing Calibration Summary

Job Number: MC41757 **Sample:** MSH2511-CC2500
Account: EAENYS EA Engineering **Lab FileID:** H75433.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.847	5.4	95	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	44.468	11.1	98	0.00	11.68
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.504	4.4	94	0.00	11.94
71	p	2-hexanone	0.433	0.438	-1.2	97	-0.01	11.53
72	P	chlorobenzene	1.587	1.443	9.1	92	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.481	2.0	94	0.00	12.69
74	p	ethylbenzene	2.546	2.416	5.1	91	0.00	12.94
75	p	m,p-xylene	0.955	0.934	2.2	90	0.00	13.13
76	p	o-xylene	0.980	0.951	3.0	91	0.00	13.54
77	p	styrene	1.648	1.517	7.9	92	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	50.297	-0.6	98	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	51.649	-3.3	108	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	15.30
81	p	isopropylbenzene	2.903	2.621	9.7	90	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.958	3.2	90	0.00	13.96
83	p	bromobenzene	0.802	0.706	12.0	90	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.718	-1.4	95	0.00	13.54
85	p	1,2,3-trichloropropane	0.804	0.808	-0.5	98	0.00	13.70
86	p	n-propylbenzene	3.424	3.084	9.9	89	0.00	14.35
87	p	2-chlorotoluene	2.048	1.869	8.7	91	0.00	14.47
88	p	4-chlorotoluene	2.155	1.984	7.9	92	0.00	14.55
89	p	1,3,5-trimethylbenzene	2.281	2.189	4.0	89	0.00	14.63
90	p	tert-butylbenzene	1.390	1.292	7.1	89	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.241	2.1	90	0.00	15.04
92	p	sec-butylbenzene	2.957	2.753	6.9	88	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.289	5.1	91	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.339	5.9	88	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.406	5.1	92	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.231	0.2	92	0.00	15.70
97	p	n-butylbenzene	2.204	2.189	0.7	90	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.085	-21.4#	104	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.781	-3.0	92	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	59.071	-18.1	98	0.00	17.55
101	p	hexachlorobutadiene	50.000	50.438	-0.9	87	0.00	17.85
102	p	naphthalene	50.000	65.037	-30.1#	101	0.00	17.82
103	p	1,2,3-trichlorobenzene	50.000	59.071	-18.1	98	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene	0.000	0.016#	0.0	0#	0.01	19.31
105	p	1-Methylnaphthalene	0.000	0.011#	0.0	0#	-0.01	19.55

(#) = Out of Range SPCC's out = 5 CCC's out = 0
H75157.D H150925W.M Wed Oct 07 15:04:27 2015

Continuing Calibration Summary

Job Number: MC41757 **Sample:** MSH2511-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75457.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\H151007\H75457.D          Vial: 25
Acq On    :  7 Oct 2015   9:16 pm                   Operator: kaylap
Sample    : ecc2500-50                              Inst    : MSH
Misc      : ms35386,msh2511,,,,5,1                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title        : SW-846 Method 8260
Last Update  : Tue Sep 29 16:08:54 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	83	0.00	6.19
2	p	tertiary butyl alcohol	1.155	1.075	6.9	83	0.00	6.28
			Amount	Calc.	%Drift			
3	p	Ethanol	5000.000	5458.566	-9.2	111	-0.02	5.10
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	81	0.00	8.61
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	55.206	-10.4	87	0.00	4.03
6	P	chloromethane	50.000	52.488	-5.0	82	0.00	4.27
7	p	vinyl chloride	50.000	51.866	-3.7	84	0.00	4.49
8	p	bromomethane	50.000	49.674	0.7	74	0.00	4.96
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.318	0.302	5.0	78	0.00	5.11
			Amount	Calc.	%Drift			
10	p	acetonitrile		----------NA----------				
11	p	trichlorofluoromethane	50.000	46.966	6.1	76	0.00	5.69
			AvgRF	CCRF	%Dev			
12	p	freon-113	0.496	0.400	19.4	69	0.00	6.46
13	p	acrolein	0.022	0.028#	-27.3#	99	0.00	5.70
14	p	1,1-dichloroethene	0.429	0.369	14.0	72	0.00	6.27
15	p	acetone	0.053	0.057#	-7.5	90	0.00	5.83
16	p	ethyl ether	0.429	0.417	2.8	81	0.00	5.93
17	p	methyl acetate	0.488	0.475	2.7	87	0.00	6.45
18	p	methylene chloride	0.543	0.510	6.1	82	0.02	6.46
19	p	methyl tert butyl ether	1.335	1.296	2.9	82	0.00	7.20
20	p	acrylonitrile	0.196	0.208	-6.1	83	0.00	6.33
21	p	allyl chloride	0.887	0.841	5.2	82	0.00	6.51
22	p	trans-1,2-dichloroethene	0.478	0.429	10.3	77	0.00	7.11
23	p	iodomethane	0.769	0.678	11.8	75	0.00	6.36
24	p	carbon disulfide	1.570	1.311	16.5	72	0.00	6.69
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	45.471	9.1	81	-0.02	7.37
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: MC41757 **Sample:** MSH2511-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75457.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

26	p	vinyl acetate	0.942	0.588	37.6#	52	0.00	7.46
27	p	chloroprene	0.827	0.735	11.1	74	0.00	7.72
28	p	di-isopropyl ether	1.763	1.782	-1.1	83	0.00	7.76
29	p	methacrylonitrile	0.339	0.317	6.5	81	-0.01	7.87
30	p	2-butanone	0.060	0.064#	-6.7	85	0.00	7.77
31	P	1,1-dichloroethane	0.979	0.925	5.5	82	0.00	7.36
32	p	tert-butyl ethyl ether	1.639	1.639	0.0	83	0.00	8.16
33	p	Hexane	0.899	0.801	10.9	74	0.00	7.74
		----------	Amount	Calc.	%Drift		----------	
34	p	isobutyl alcohol	250.000	255.286	-2.1	83	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
35	p	2,2-dichloropropane	0.720	0.612	15.0	73	0.00	8.21
36	p	cis-1,2-dichloroethene	0.526	0.499	5.1	81	0.00	7.92
		----------	Amount	Calc.	%Drift		----------	
37	p	ethyl acetate	50.000	54.171	-8.3	87	0.00	8.16
		----------	AvgRF	CCRF	%Dev		----------	
38	p	bromochloromethane	0.257	0.248	3.5	83	0.00	8.09
39	p	chloroform	0.941	0.912	3.1	84	0.00	8.13
40	S	dibromofluoromethane (s)	0.506	0.538	-6.3	86	0.00	8.25
41	p	1,1,1-trichloroethane	0.749	0.685	8.5	76	0.00	8.88
42	I	1,4-difluorobenzene	1.000	1.000	0.0	84	0.00	9.48
43	p	cyclohexane	0.593	0.460	22.4#	68	0.00	9.16
44	p	carbon tetrachloride	0.392	0.349	11.0	75	0.00	9.24
45	p	1,1-dichloropropene	0.432	0.360	16.7	73	0.00	9.05
46	p	benzene	1.271	1.145	9.9	80	0.00	9.28
47	p	tetrahydrofuran	0.106	0.094	11.3	76	0.00	8.46
48	p	1,2-dichloroethane	0.474	0.451	4.9	86	0.00	8.78
49	p	tert-amyl methyl ether	0.864	0.816	5.6	80	0.00	9.40
50	p	heptane	0.448	0.346	22.8#	68	0.00	9.76
51	p	trichloroethene	0.333	0.318	4.5	82	0.00	9.90
52	p	1,2-dichloropropane	0.353	0.321	9.1	81	0.00	9.86
53	p	dibromomethane	0.212	0.205	3.3	84	0.00	9.84
54	p	bromodichloromethane	0.424	0.424	0.0	86	0.00	9.95
55	p	methylcyclohexane	0.541	0.436	19.4	71	0.00	10.42
56	p	2-chloroethyl vinyl ether	0.228	0.176	22.8#	65	0.00	10.33
57	p	methyl methacrylate	0.221	0.196	11.3	77	0.00	10.05
		----------	Amount	Calc.	%Drift		----------	
58	p	1,4-dioxane	250.000	240.601	3.8	96	0.00	10.06
		----------	AvgRF	CCRF	%Dev		----------	
59	p	cis-1,3-dichloropropene	0.473	0.466	1.5	81	0.00	10.57
60	S	toluene-d8 (s)	1.213	1.168	3.7	81	0.00	11.28
61	p	4-methyl-2-pentanone	0.358	0.326	8.9	83	0.00	10.66
62	p	toluene	0.777	0.663	14.7	76	0.00	11.35
		----------	Amount	Calc.	%Drift		----------	
63	p	trans-1,3-dichloropropene	50.000	46.175	7.7	81	0.00	10.99
		----------	AvgRF	CCRF	%Dev		----------	
64	p	1,1,2-trichloroethane	0.258	0.238	7.8	81	0.00	11.16
65	p	ethyl methacrylate	0.423	0.393	7.1	81	0.00	11.38
66	I	chlorobenzene-d5	1.000	1.000	0.0	84	0.00	12.73
67	p	tetrachloroethene	0.596	0.478	19.8	71	0.00	12.09

Continuing Calibration Summary

Job Number: MC41757 **Sample:** MSH2511-ECC2500
Account: EAENYS EA Engineering **Lab FileID:** H75457.D
Project: SCNJR: Picatinny Arsenal, Route 15, Picatinny Arsenal, NJ

68	p	1,3-dichloropropane	0.895	0.795	11.2	82	0.00	11.40
		----------	Amount	Calc.	%Drift		----------	
69	p	dibromochloromethane	50.000	42.676	14.6	86	0.00	11.69
		----------	AvgRF	CCRF	%Dev		----------	
70	p	1,2-dibromoethane	0.527	0.476	9.7	82	0.00	11.94
71	p	2-hexanone	0.433	0.416	3.9	85	-0.01	11.53
72	P	chlorobenzene	1.587	1.350	14.9	79	0.00	12.77
73	p	1,1,1,2-tetrachloroethane	0.491	0.462	5.9	83	0.00	12.69
74	p	ethylbenzene	2.546	2.231	12.4	77	0.00	12.95
75	p	m,p-xylene	0.955	0.876	8.3	78	0.00	13.13
76	p	o-xylene	0.980	0.891	9.1	79	0.00	13.54
77	p	styrene	1.648	1.436	12.9	80	0.00	13.47
		----------	Amount	Calc.	%Drift		----------	
78	P	bromoform	50.000	49.610	0.8	88	0.00	13.29
79	p	trans-1,4-dichloro-2-bute	50.000	48.191	3.6	93	0.00	13.70
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	15.30
81	p	isopropylbenzene	2.903	2.419	16.7	78	0.00	13.91
82	S	bromofluorobenzene (s)	0.990	0.976	1.4	86	0.00	13.96
83	p	bromobenzene	0.802	0.682	15.0	81	0.00	14.19
84	P	1,1,2,2-tetrachloroethane	0.708	0.635	10.3	79	0.00	13.55
85	p	1,2,3-trichloropropane	0.804	0.770	4.2	87	0.00	13.70
86	p	n-propylbenzene	3.424	2.925	14.6	79	0.00	14.35
87	p	2-chlorotoluene	2.048	1.795	12.4	81	0.00	14.47
88	p	4-chlorotoluene	2.155	1.896	12.0	82	0.00	14.54
89	p	1,3,5-trimethylbenzene	2.281	2.077	8.9	79	0.00	14.64
90	p	tert-butylbenzene	1.390	1.209	13.0	78	0.00	14.94
91	p	1,2,4-trimethylbenzene	2.289	2.132	6.9	80	0.00	15.04
92	p	sec-butylbenzene	2.957	2.625	11.2	79	0.00	15.16
93	p	1,3-dichlorobenzene	1.358	1.231	9.4	81	0.00	15.26
94	p	p-isopropyltoluene	2.486	2.245	9.7	79	0.00	15.34
95	p	1,4-dichlorobenzene	1.481	1.329	10.3	82	0.00	15.33
96	p	1,2-dichlorobenzene	1.233	1.174	4.8	82	0.00	15.69
97	p	n-butylbenzene	2.204	2.051	6.9	79	0.00	15.76
98	p	1,2-dibromo-3-chloropropa	0.070	0.072	-2.9	82	0.00	16.18
99	p	1,3,5-trichlorobenzene	0.758	0.700	7.7	77	0.00	16.99
		----------	Amount	Calc.	%Drift		----------	
100	p	1,2,4-trichlorobenzene	50.000	48.749	2.5	77	0.00	17.55
101	p	hexachlorobutadiene	50.000	47.613	4.8	77	0.00	17.85
102	p	naphthalene	50.000	52.404	-4.8	78	0.00	17.82
103	p	1,2,3-trichlorobenzene	50.000	48.749	2.5	77	0.00	17.55
		----------	AvgRF	CCRF	%Dev		----------	
104	p	2-Methylnaphthalene	0.000	0.016#	0.0	0#	0.00	19.30
105	p	1-Methylnaphthalene	0.000	0.011#	0.0	0#	0.00	19.56

(#) = Out of Range SPCC's out = 5 CCC's out = 0
H75157.D H150925W.M Thu Oct 08 10:45:49 2015

New England ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75451.D
Acq On : 7 Oct 2015 6:37 pm
Operator : kaylap
Sample : mc41757-1
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 08 08:33:13 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

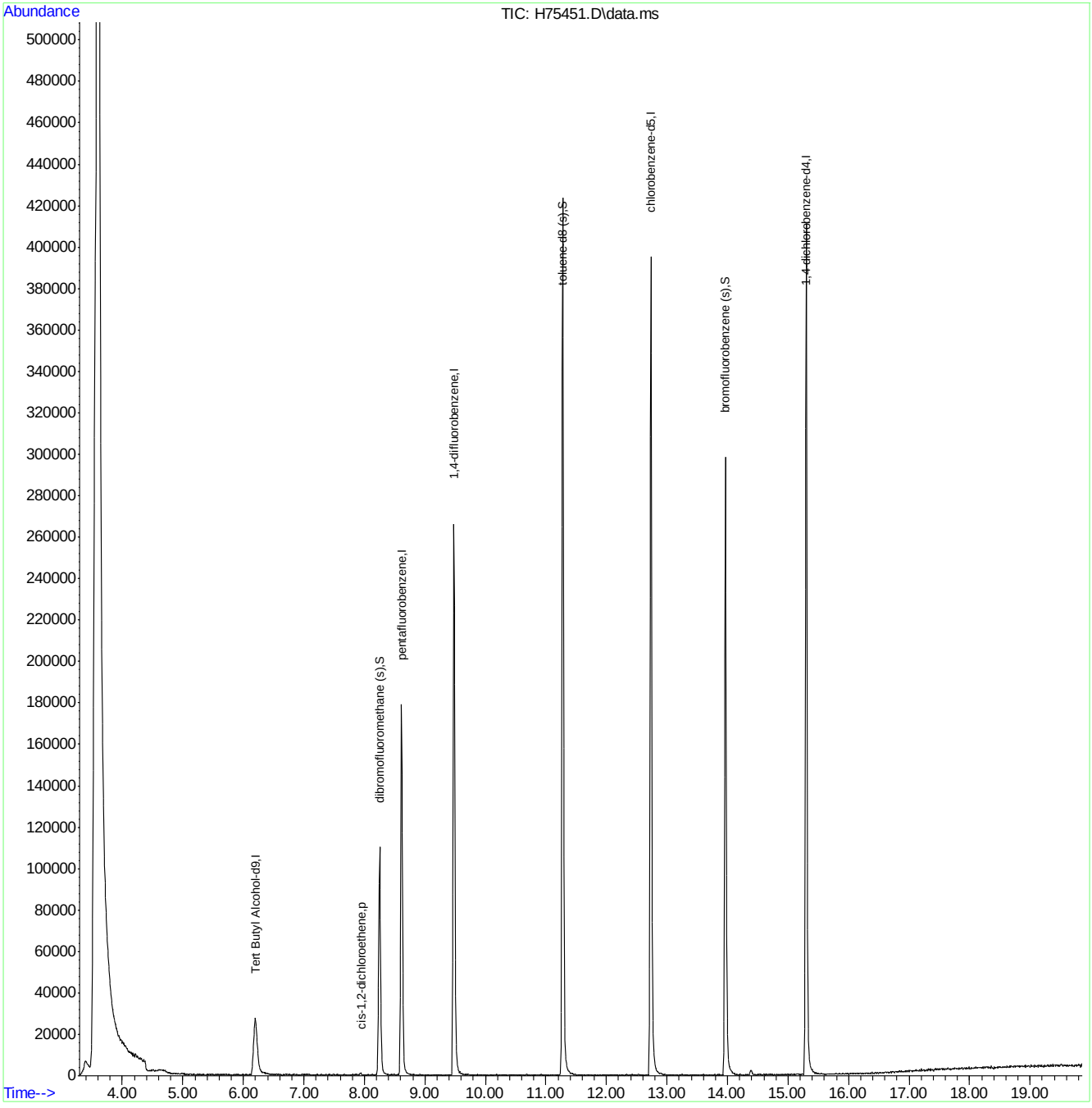
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.202	65	58436	500.00	ug/L	0.01
4) pentafluorobenzene	8.616	168	137797	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	220702	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	135660	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	116815	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.252	113	75904	54.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.94%			
60) toluene-d8 (s)	11.277	98	287288	53.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.32%			
82) bromofluorobenzene (s)	13.965	95	111478	48.18	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.36%			
Target Compounds						Qvalue
36) cis-1,2-dichloroethene	7.945	96	545	0.38	ug/L #	52

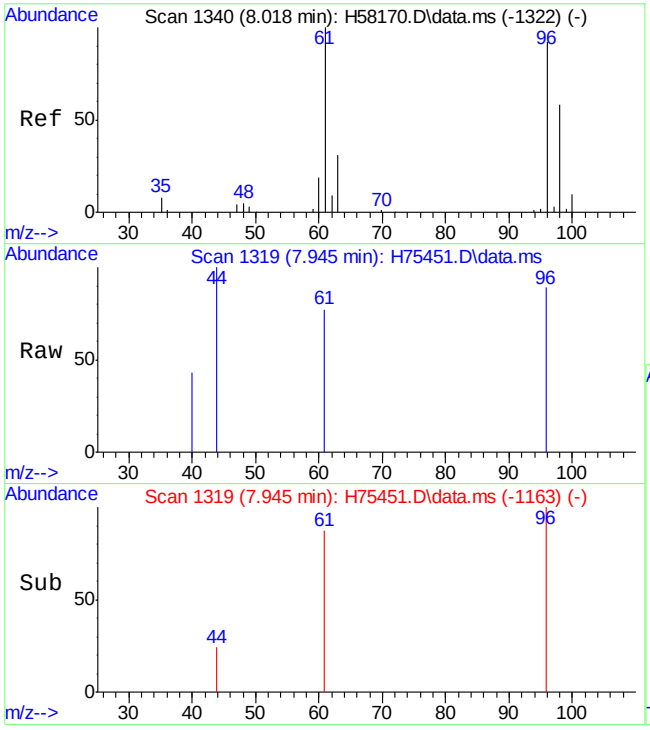
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75451.D
Acq On : 7 Oct 2015 6:37 pm
Operator : kaylap
Sample : mc41757-1
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 08 08:33:13 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

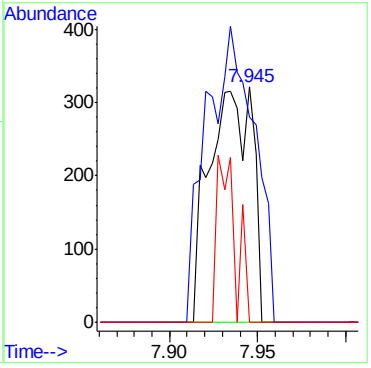




#36
cis-1,2-dichloroethene
Concen: 0.38 ug/L
RT: 7.945 min Scan# 1319
Delta R.T. 0.019 min
Lab File: H75451.D
Acq: 7 Oct 15 6:37 pm

Tgt Ion: 96 Resp: 545

Ion	Ratio	Lower	Upper
96	100		
61	87.2	90.6	150.6#
98	0.0	35.0	95.0#



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75452.D
Acq On : 7 Oct 2015 7:04 pm
Operator : kaylap
Sample : mc41757-2
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 08 08:33:51 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.197	65	58340	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	138231	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	223837	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	134179	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	117960	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	75507	54.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.04%			
60) toluene-d8 (s)	11.275	98	278264	51.25	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.50%			
82) bromofluorobenzene (s)	13.964	95	111183	47.58	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.16%			

Target Compounds Qvalue

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

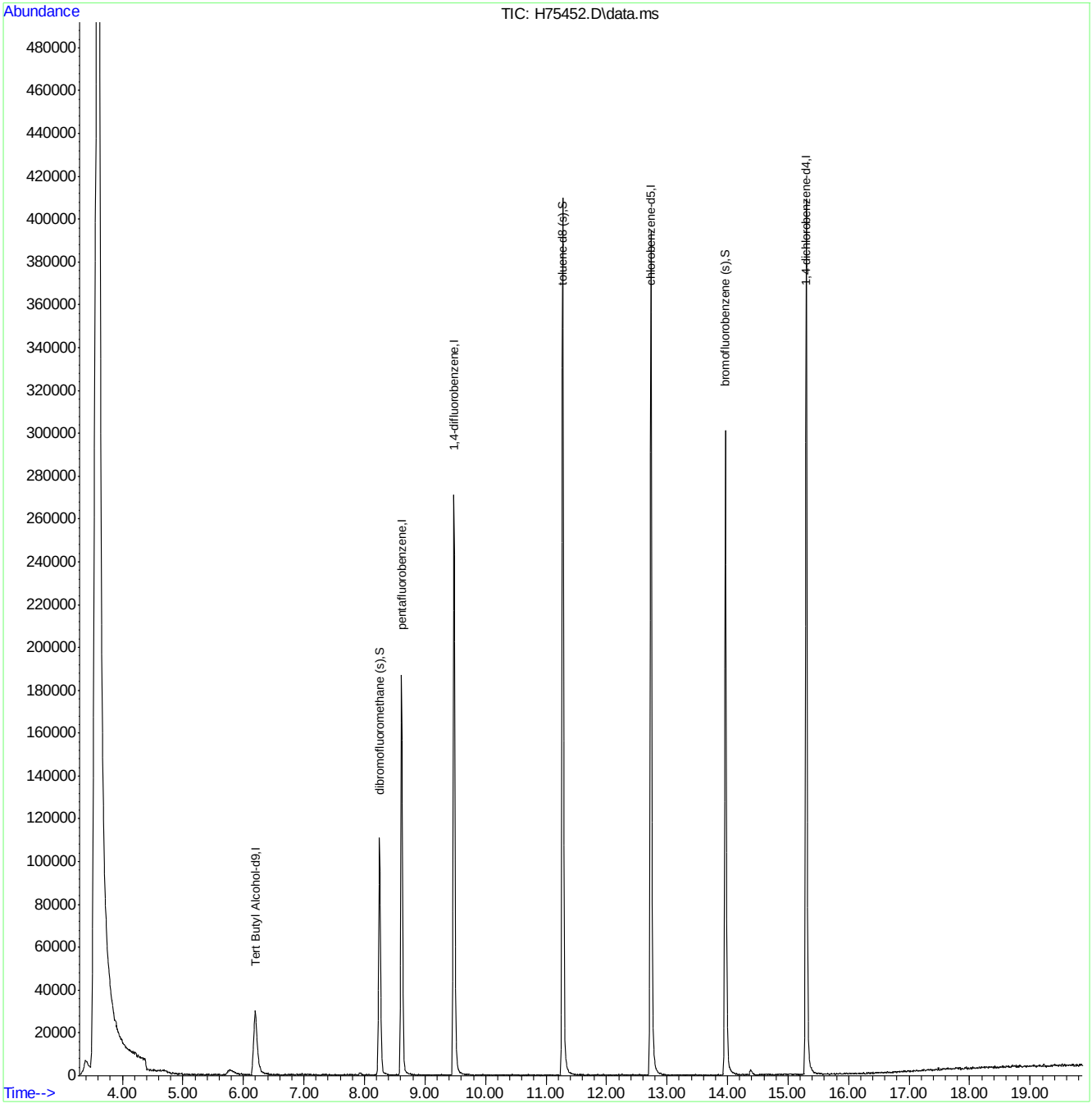
7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75452.D
Acq On : 7 Oct 2015 7:04 pm
Operator : kaylap
Sample : mc41757-2
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 08 08:33:51 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



H150925W.M Thu Oct 08 08:33:57 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75453.D
Acq On : 7 Oct 2015 7:30 pm
Operator : kaylap
Sample : mc41757-3
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 08 08:34:20 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

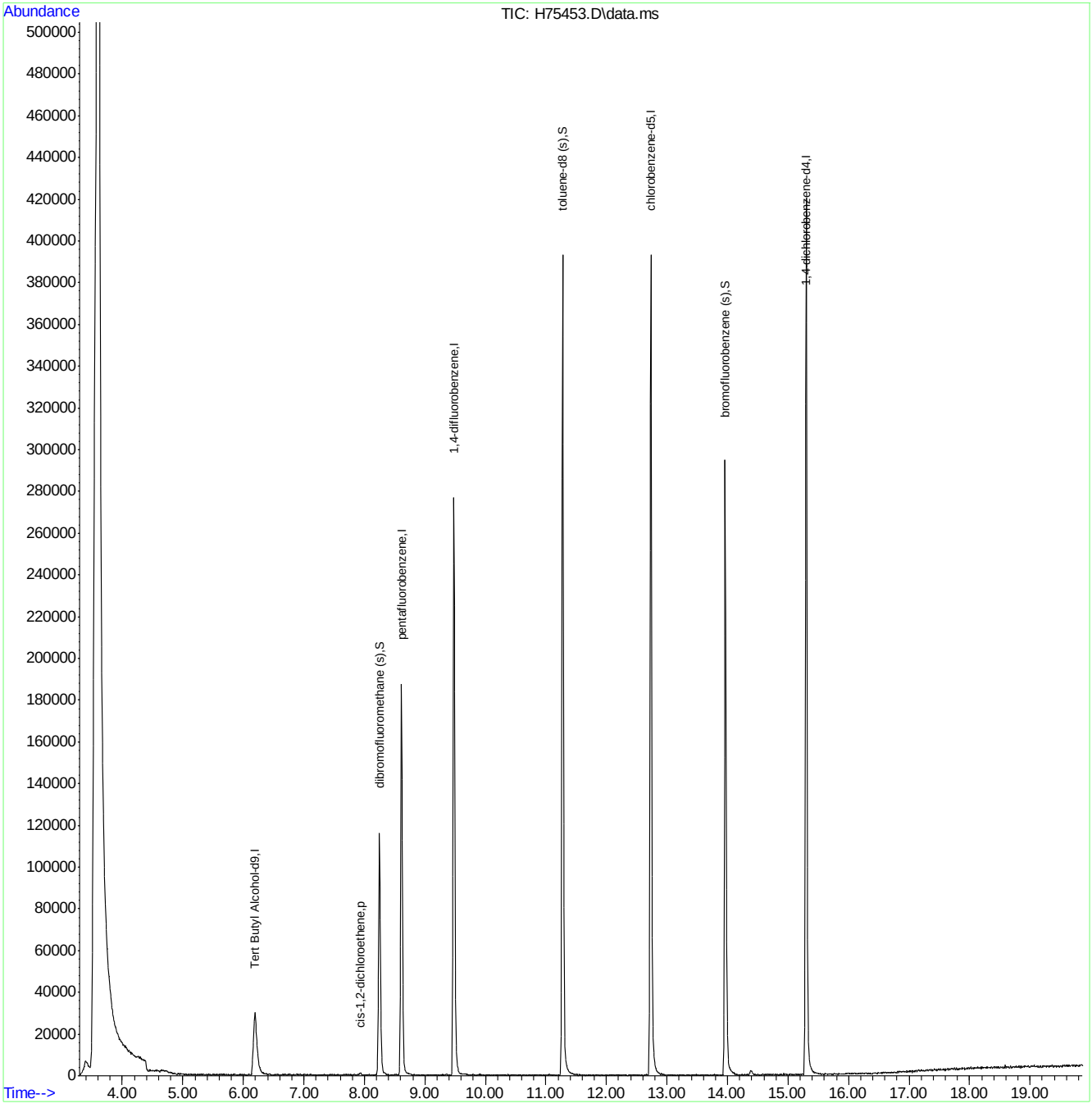
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.188	65	58544	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	136792	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	226237	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	132166	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.303	152	118683	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	77821	56.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 112.52%			
60) toluene-d8 (s)	11.276	98	269978	49.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.38%			
82) bromofluorobenzene (s)	13.965	95	110703	47.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.18%			
Target Compounds						Qvalue
36) cis-1,2-dichloroethene	7.938	96	638	0.44	ug/L	84

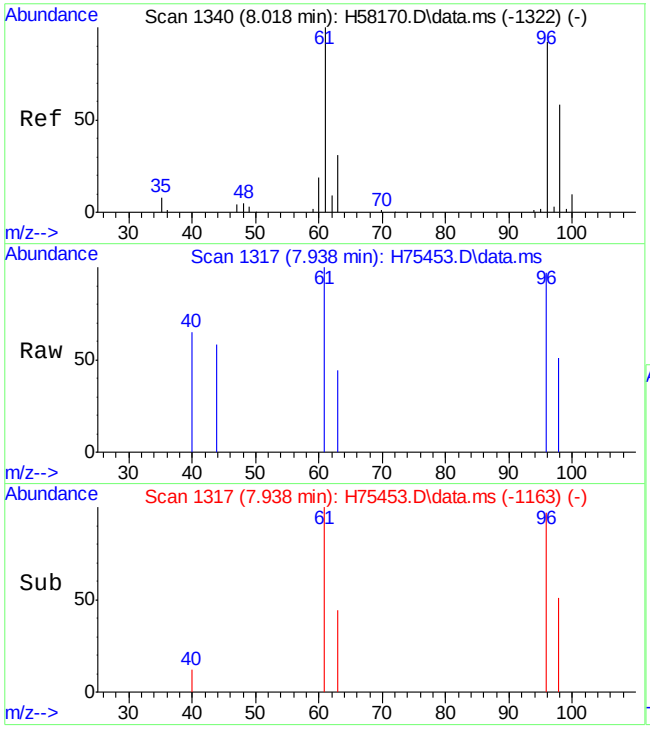
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75453.D
Acq On : 7 Oct 2015 7:30 pm
Operator : kaylap
Sample : mc41757-3
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 08 08:34:20 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

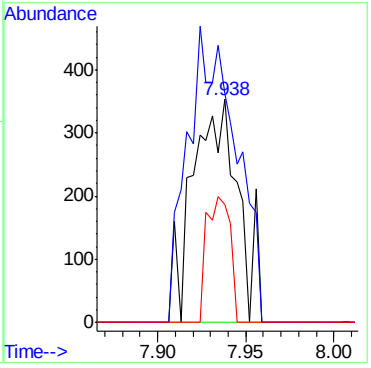




#36
cis-1,2-dichloroethene
Concen: 0.44 ug/L
RT: 7.938 min Scan# 1317
Delta R.T. 0.012 min
Lab File: H75453.D
Acq: 7 Oct 15 7:30 pm

Tgt Ion: 96 Resp: 638

Ion	Ratio	Lower	Upper
96	100		
61	102.8	90.6	150.6
98	52.7	35.0	95.0



7.1.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75454.D
Acq On : 7 Oct 2015 7:57 pm
Operator : kaylap
Sample : mc41757-4
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 08 08:34:50 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

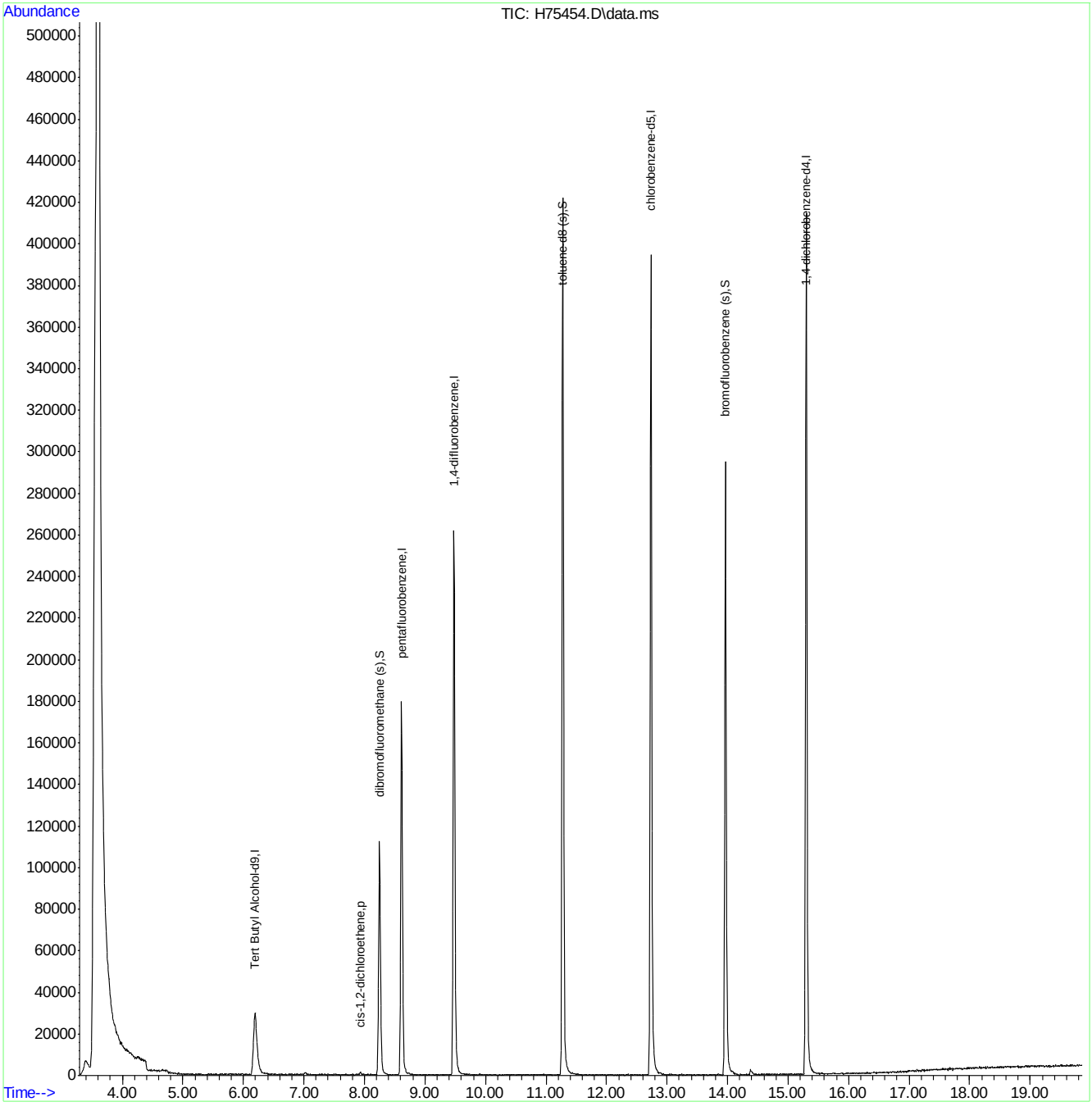
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.190	65	57922	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	133911	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	219560	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	134600	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	116679	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	75549	55.79	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 111.58%			
60) toluene-d8 (s)	11.275	98	285851	53.67	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.34%			
82) bromofluorobenzene (s)	13.964	95	110194	47.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.36%			
Target Compounds						Qvalue
36) cis-1,2-dichloroethene	7.930	96	523	0.37	ug/L	95

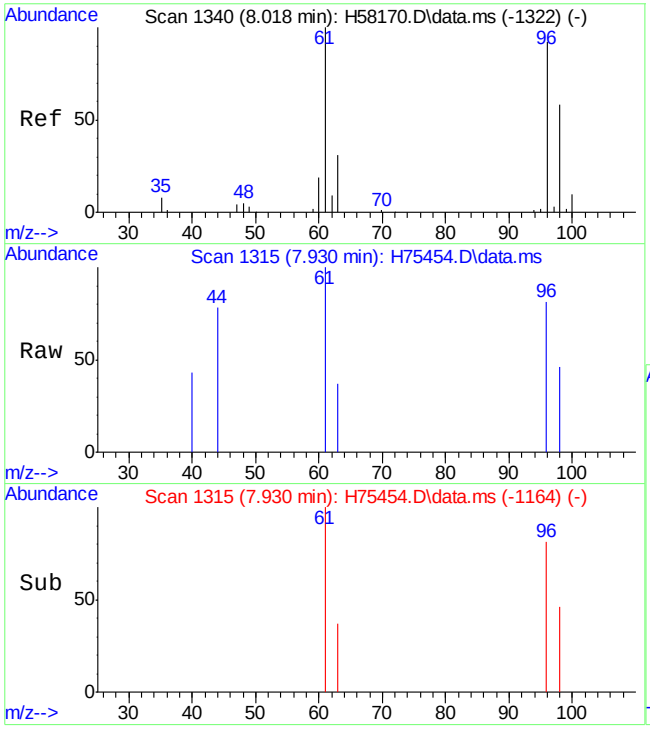
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75454.D
Acq On : 7 Oct 2015 7:57 pm
Operator : kaylap
Sample : mc41757-4
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 08 08:34:50 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

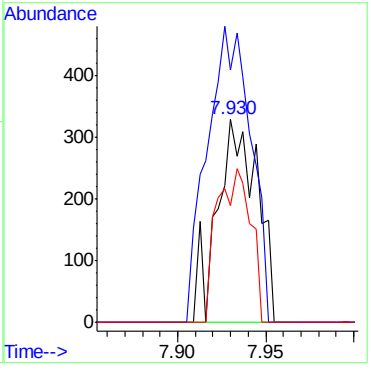




#36
cis-1,2-dichloroethene
Concen: 0.37 ug/L
RT: 7.930 min Scan# 1315
Delta R.T. 0.004 min
Lab File: H75454.D
Acq: 7 Oct 15 7:57 pm

Tgt Ion: 96 Resp: 523

Ion	Ratio	Lower	Upper
96	100		
61	123.9	90.6	150.6
98	57.6	35.0	95.0



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75438.D
Acq On : 7 Oct 2015 12:52 pm
Operator : kaylap
Sample : mc41757-5
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 15:05:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	73057	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	163621	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	259858	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	153372	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	135780	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	86450	52.25	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.50%			
60) toluene-d8 (s)	11.276	98	327781	52.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.00%			
82) bromofluorobenzene (s)	13.962	95	127840	47.53	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.06%			

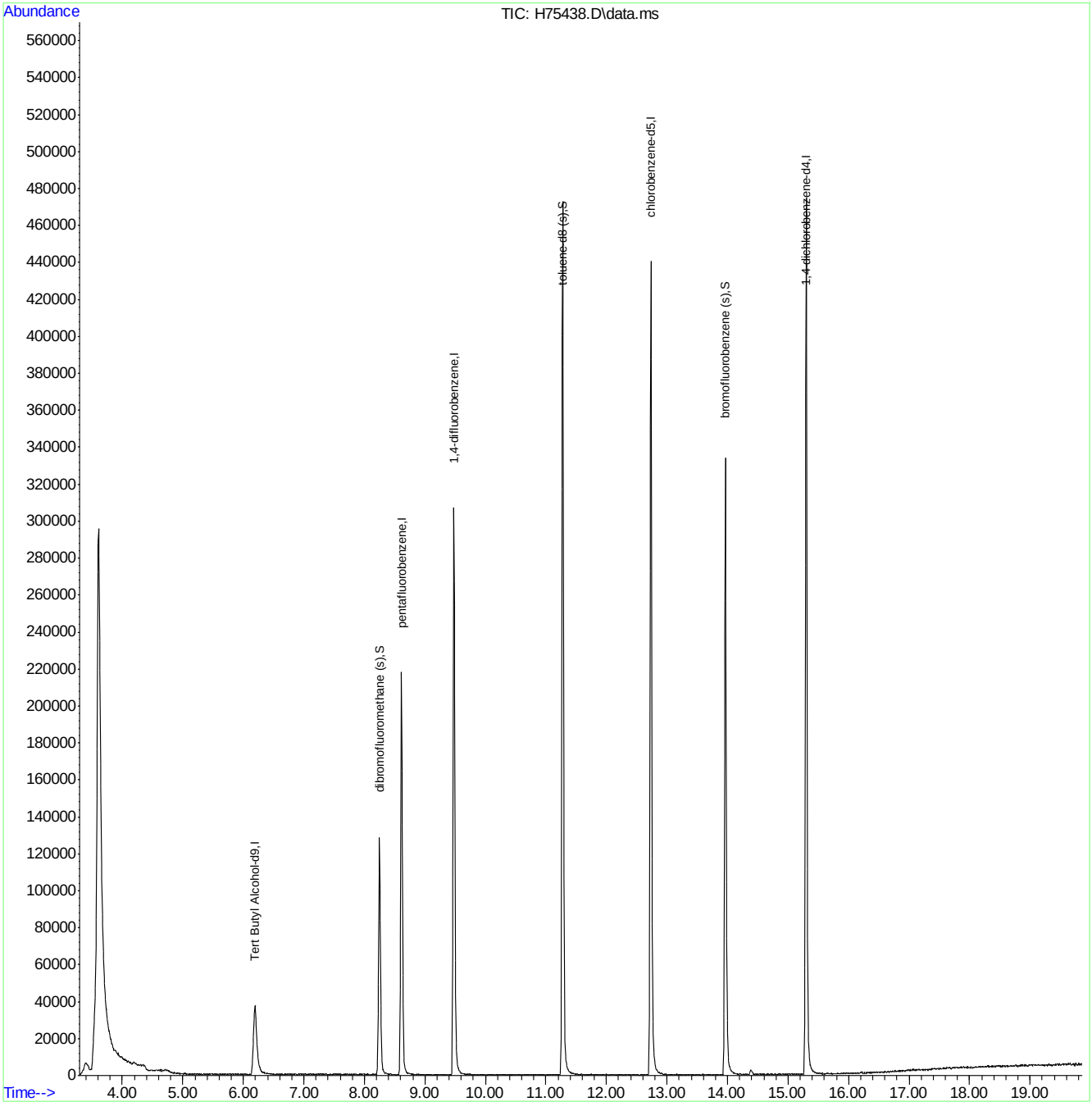
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75438.D
Acq On : 7 Oct 2015 12:52 pm
Operator : kaylap
Sample : mc41757-5
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 15:05:28 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75439.D
Acq On : 7 Oct 2015 1:18 pm
Operator : kaylap
Sample : mc41757-6
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 15:05:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	64864	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	153913	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	244821	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	150690	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	129317	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	83325	53.54	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.08%			
60) toluene-d8 (s)	11.276	98	317277	53.42	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.84%			
82) bromofluorobenzene (s)	13.965	95	124013	48.41	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.82%			

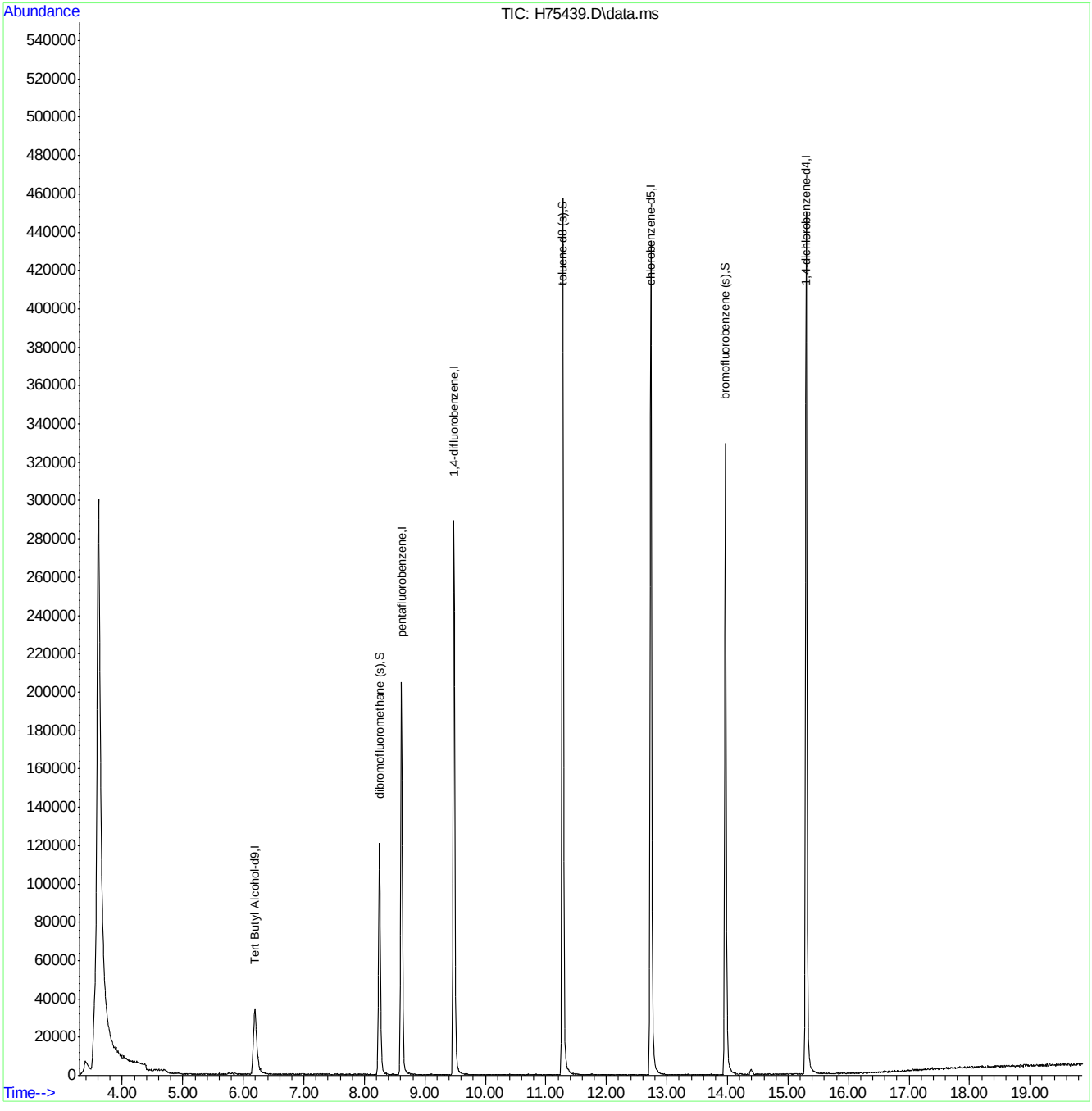
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75439.D
Acq On : 7 Oct 2015 1:18 pm
Operator : kaylap
Sample : mc41757-6
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 15:05:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75437.D
Acq On : 7 Oct 2015 12:25 pm
Operator : kaylap
Sample : mb
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 15:05:01 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.199	65	81139	500.00	ug/L	0.01
4) pentafluorobenzene	8.613	168	173600	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.481	114	275034	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	157450	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	141441	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	90610	51.62	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.24%			
60) toluene-d8 (s)	11.277	98	330287	49.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.02%			
82) bromofluorobenzene (s)	13.962	95	134399	47.97	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.94%			

Target Compounds Qvalue

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

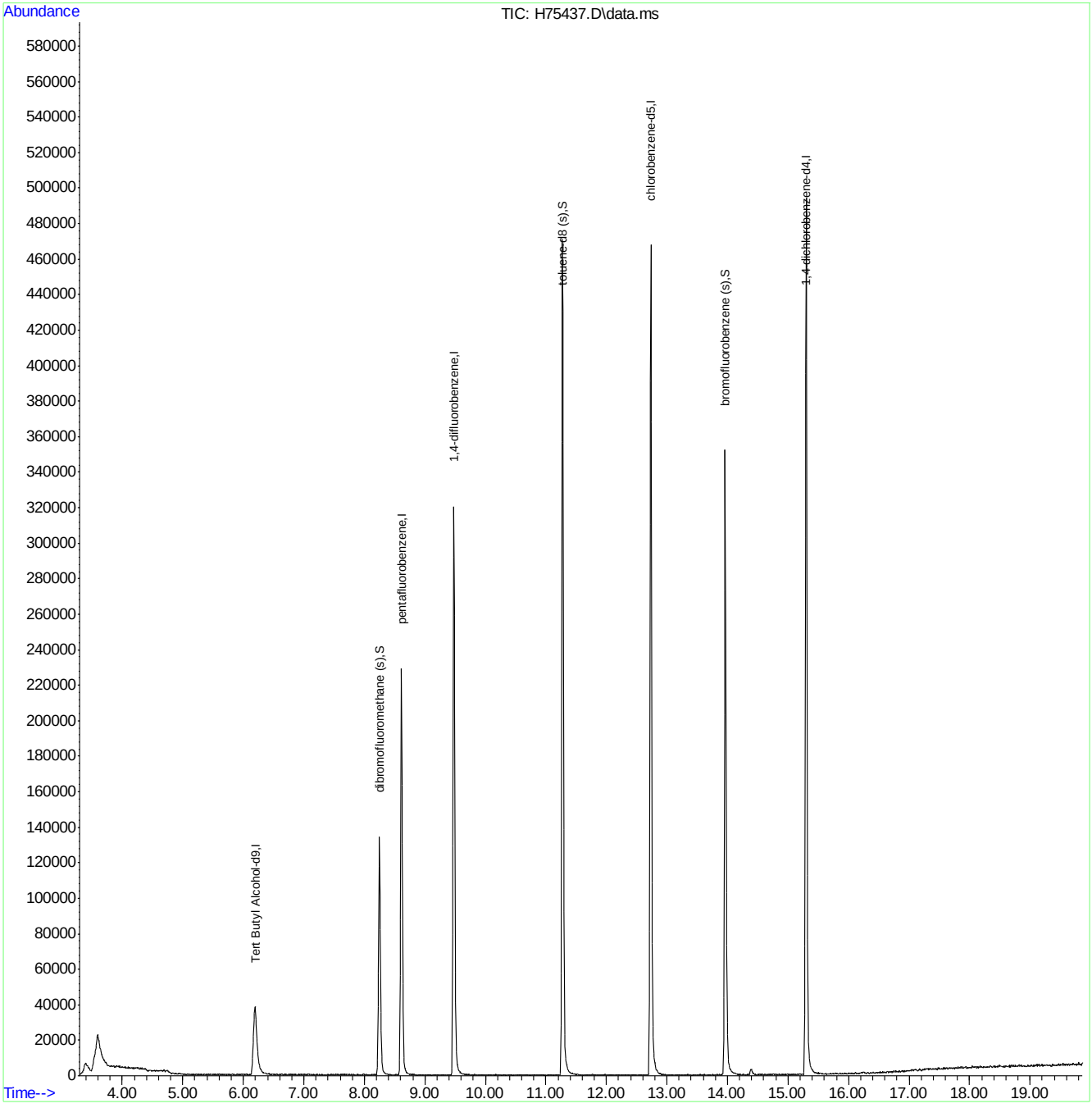
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75437.D
Acq On : 7 Oct 2015 12:25 pm
Operator : kaylap
Sample : mb
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 15:05:01 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/08/15 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:26:33 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.188	65	76507	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	175610	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.477	114	276038	50.00	ug/L	0.00
66) chlorobenzene-d5	12.730	82	175091	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	155953	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.245	113	91597	51.58	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.16%			
60) toluene-d8 (s)	11.273	98	354602	52.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.92%			
82) bromofluorobenzene (s)	13.962	95	148752	48.15	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.30%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.273	59	91079	515.47	ug/L	96
3) Ethanol	5.108	45	109630	4715.16	ug/L	100
5) dichlorodifluoromethane	4.021	85	33786	17.67	ug/L	98
6) chloromethane	4.268	50	77127	46.52	ug/L	92
7) vinyl chloride	4.494	62	81497	44.37	ug/L	98
8) bromomethane	4.949	96	55550	50.99	ug/L	99
9) chloroethane	5.105	64	57801	51.69	ug/L	96
11) trichlorofluoromethane	5.694	101	118508	43.20	ug/L	99
12) freon-113	6.460	101	97124	55.78	ug/L	91
13) acrolein	5.690	56	45533	578.04	ug/L	100
14) 1,1-dichloroethene	6.269	96	90751	60.17	ug/L #	74
15) acetone	5.828	58	18141m	97.14	ug/L	
16) ethyl ether	5.927	59	86031	57.14	ug/L	86
17) methyl acetate	6.449	43	106726	62.22	ug/L	86
18) methylene chloride	6.446	84	109757	57.53	ug/L #	76
19) methyl tert butyl ether	7.197	73	276483	58.97	ug/L	89
20) acrylonitrile	6.326	53	41543	60.24	ug/L	94
21) allyl chloride	6.509	41	178977m	57.47	ug/L	
22) trans-1,2-dichloroethene	7.106	96	96041	57.16	ug/L	83
23) iodomethane	6.357	142	149861	55.49	ug/L	91
24) carbon disulfide	6.689	76	293757	53.28	ug/L	97
25) propionitrile	7.367	54	13950	54.95	ug/L	100
26) vinyl acetate	7.451	43	217897	65.87	ug/L	92
27) chloroprene	7.716	53	157744	54.32	ug/L	98
28) di-isopropyl ether	7.762	45	364793	58.93	ug/L	93
29) methacrylonitrile	7.868	41	62735	52.73	ug/L	94
30) 2-butanone	7.762	72	16569	78.70	ug/L #	91
31) 1,1-dichloroethane	7.353	63	189898	55.24	ug/L	94
32) tert-butyl ethyl ether	8.157	59	326043	56.63	ug/L	90
33) Hexane	7.741	41	178781	56.59	ug/L	85
34) isobutyl alcohol	8.154	43	62440	421.95	ug/L	86
35) 2,2-dichloropropane	8.210	77	158221	62.54	ug/L	93
36) cis-1,2-dichloroethene	7.924	96	105837	57.28	ug/L	87
37) ethyl acetate	8.154	43	63018	84.67	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:26:33 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38)	bromochloromethane	8.086	128	50023	55.49	ug/L #	54
39)	chloroform	8.125	83	182302	55.18	ug/L	98
41)	1,1,1-trichloroethane	8.877	97	156849	59.64	ug/L	92
43)	cyclohexane	9.159	56	175181	53.55	ug/L #	79
44)	carbon tetrachloride	9.237	117	133098	61.54	ug/L	98
45)	1,1-dichloropropene	9.053	75	129547	54.31	ug/L	93
46)	benzene	9.272	78	378773	53.97	ug/L	100
47)	tetrahydrofuran	8.457	42	31749	54.32	ug/L	89
48)	1,2-dichloroethane	8.775	62	141258	53.95	ug/L	98
49)	tert-amyl methyl ether	9.399	73	265277	55.60	ug/L	90
50)	heptane	9.763	43	149038	60.33	ug/L	92
51)	trichloroethene	9.897	95	101606	55.25	ug/L	79
52)	1,2-dichloropropane	9.861	63	108272	55.54	ug/L	95
53)	dibromomethane	9.833	93	66113	56.57	ug/L	96
54)	bromodichloromethane	9.946	83	130745	55.88	ug/L	94
55)	methylcyclohexane	10.412	83	165952	55.56	ug/L	86
56)	2-chloroethyl vinyl ether	10.331	63	67048	53.22	ug/L	88
57)	methyl methacrylate	10.052	69	70096	57.44	ug/L	92
58)	1,4-dioxane	10.059	88	4074	243.36	ug/L	99
59)	cis-1,3-dichloropropene	10.571	75	158372	60.63	ug/L	90
61)	4-methyl-2-pentanone	10.666	43	113825	57.52	ug/L	92
62)	toluene	11.347	92	245581	57.28	ug/L	98
63)	trans-1,3-dichloropropene	10.994	75	141771	53.60	ug/L	99
64)	1,1,2-trichloroethane	11.160	83	80858	56.67	ug/L	91
65)	ethyl methacrylate	11.375	69	137666	58.93	ug/L	89
67)	tetrachloroethene	12.088	166	111891	53.60	ug/L	92
68)	1,3-dichloropropane	11.397	76	165734	52.86	ug/L	97
69)	dibromochloromethane	11.686	129	98782	47.79	ug/L	98
70)	1,2-dibromoethane	11.936	107	95515	51.73	ug/L	92
71)	2-hexanone	11.527	43	104668m	69.08	ug/L	
72)	chlorobenzene	12.766	112	271677	48.89	ug/L	88
73)	1,1,1,2-tetrachloroethane	12.685	131	92000	53.52	ug/L	92
74)	ethylbenzene	12.946	91	473300	53.09	ug/L	98
75)	m,p-xylene	13.133	106	367659	109.93	ug/L	100
76)	o-xylene	13.542	106	177102	51.61	ug/L	98
77)	styrene	13.471	104	286688	49.67	ug/L	96
78)	bromoform	13.288	173	62173	53.24	ug/L	99
79)	trans-1,4-dichloro-2-b...	13.697	53	35008	52.06	ug/L	91
81)	isopropylbenzene	13.909	105	453086	50.04	ug/L	100
83)	bromobenzene	14.188	156	121906	48.71	ug/L	85
84)	1,1,2,2-tetrachloroethane	13.549	83	119021	53.91	ug/L	96
85)	1,2,3-trichloropropane	13.697	75	133164	53.12	ug/L	95
86)	n-propylbenzene	14.354	91	525525	49.20	ug/L	94
87)	2-chlorotoluene	14.470	91	316517	49.55	ug/L	89
88)	4-chlorotoluene	14.544	91	338800	50.41	ug/L	91
89)	1,3,5-trimethylbenzene	14.636	105	394573	55.46	ug/L	100
90)	tert-butylbenzene	14.936	91	227219	52.40	ug/L	90
91)	1,2,4-trimethylbenzene	15.042	105	385693	54.03	ug/L	100
92)	sec-butylbenzene	15.162	105	487400	52.85	ug/L	97
93)	1,3-dichlorobenzene	15.261	146	214598	50.67	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:26:33 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	p-isopropyltoluene	15.335	119	418250	53.94 ug/L	97
95)	1,4-dichlorobenzene	15.328	146	234320	50.72 ug/L	99
96)	1,2-dichlorobenzene	15.695	146	205423	53.41 ug/L	98
97)	n-butylbenzene	15.755	91	391082	56.90 ug/L	91
98)	1,2-dibromo-3-chloropr...	16.178	75	13438	61.20 ug/L	85
99)	1,3,5-trichlorobenzene	16.993	180	127025	53.76 ug/L	96
100)	1,2,4-trichlorobenzene	17.547	180	74530	63.22 ug/L	97
101)	hexachlorobutadiene	17.851	225	55441	65.07 ug/L	96
102)	naphthalene	17.822	128	109474	62.06 ug/L	100
103)	1,2,3-trichlorobenzene	17.547	180	74530	63.22 ug/L	99

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

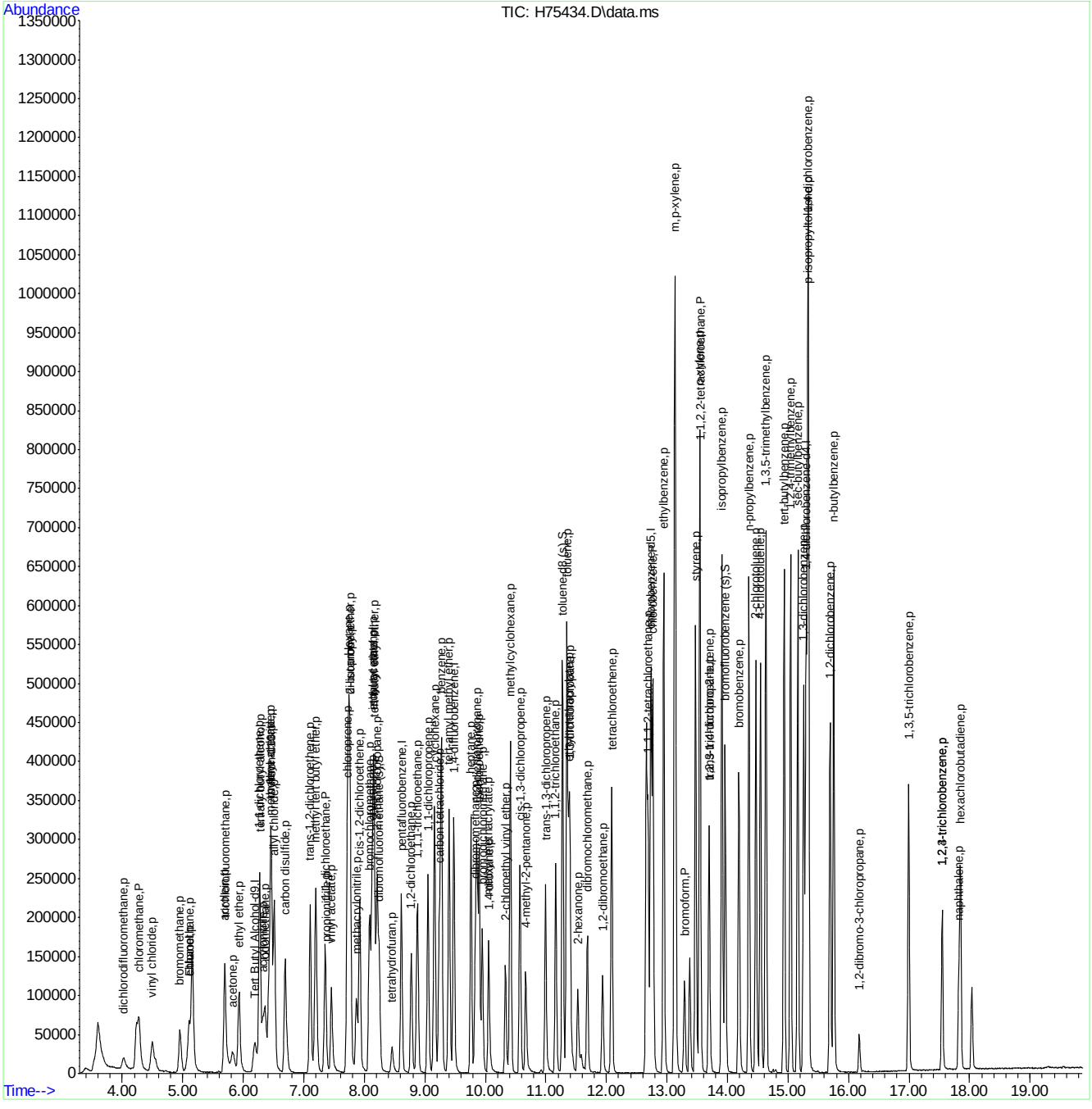
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:26:33 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

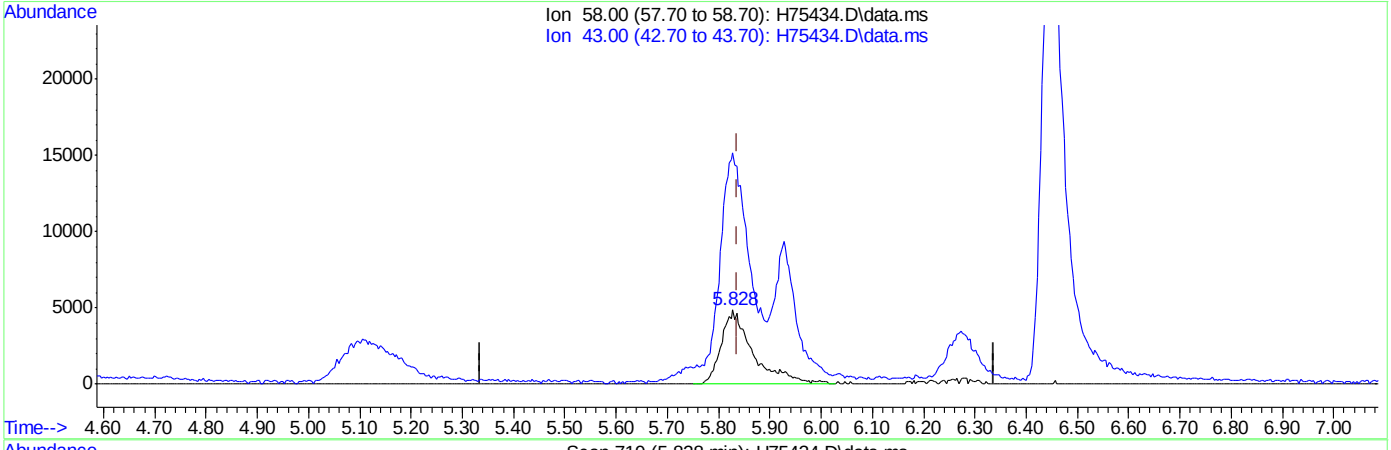


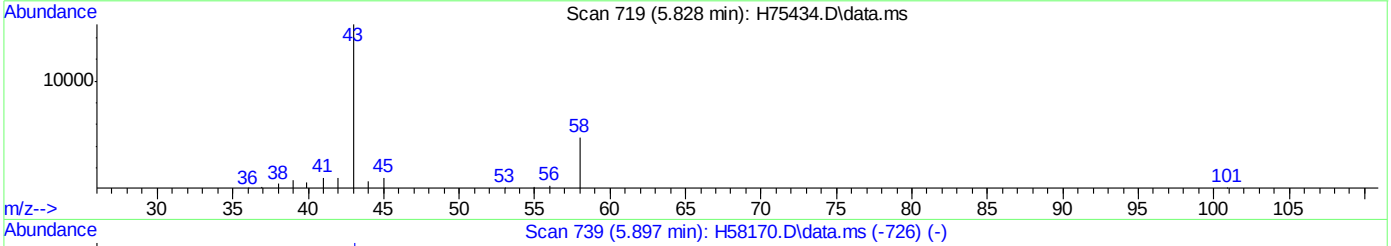
ACCUTEST LABORATORIES MC41757

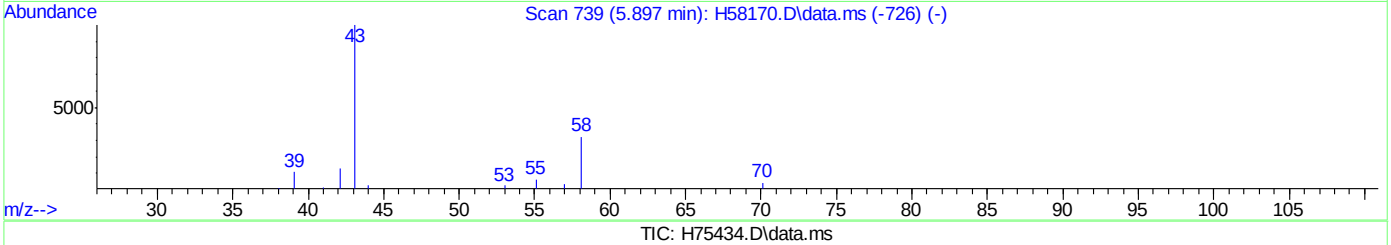
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:25:38 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75434.D\data.ms

(15) acetone (p)

5.828min (-0.009) 113.03ug/L

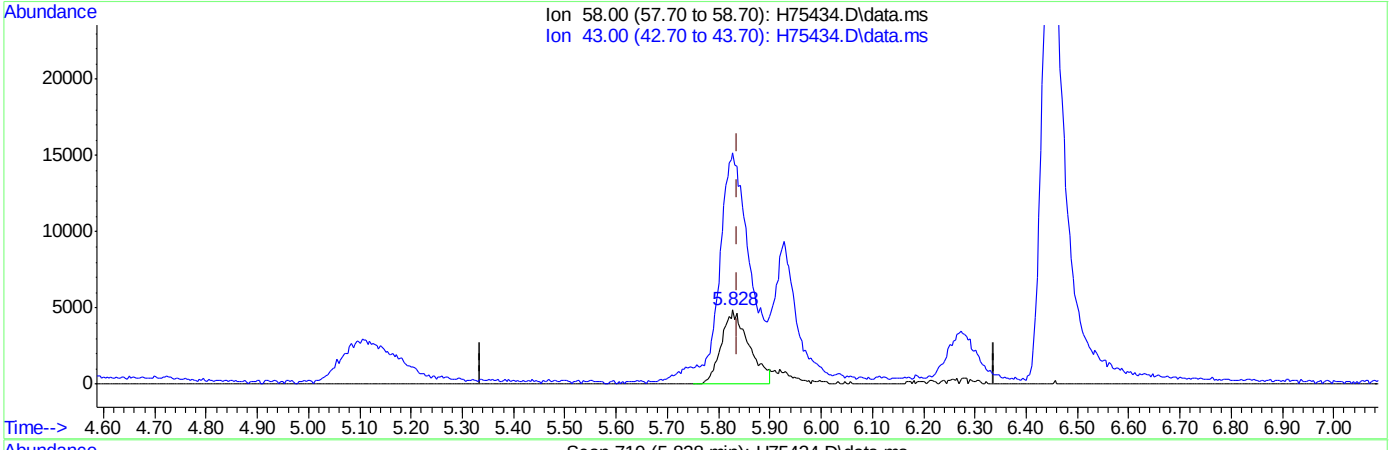
response 21108

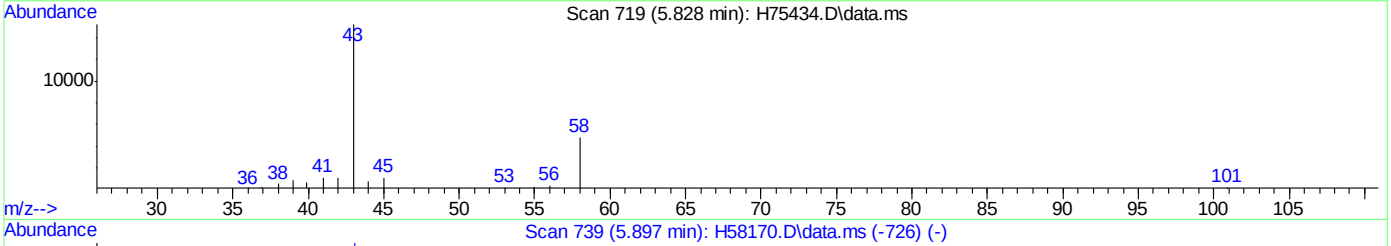
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	300.68
0.00	0.00	0.00
0.00	0.00	0.00

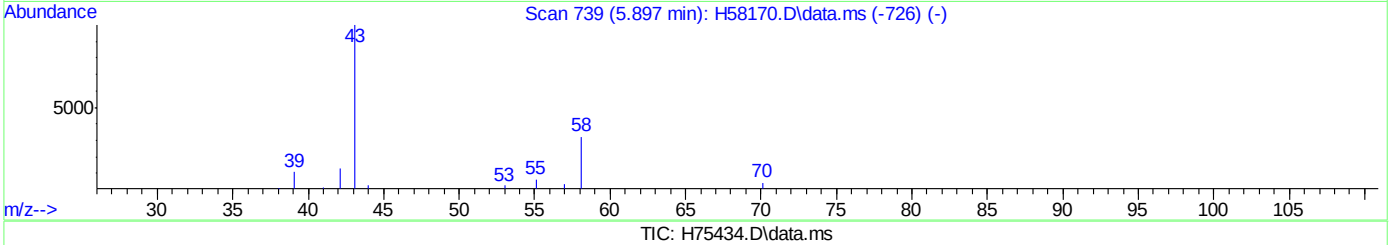
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:25:38 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75434.D\data.ms

(15) acetone (p)

5.828min (-0.009) 97.14ug/L m

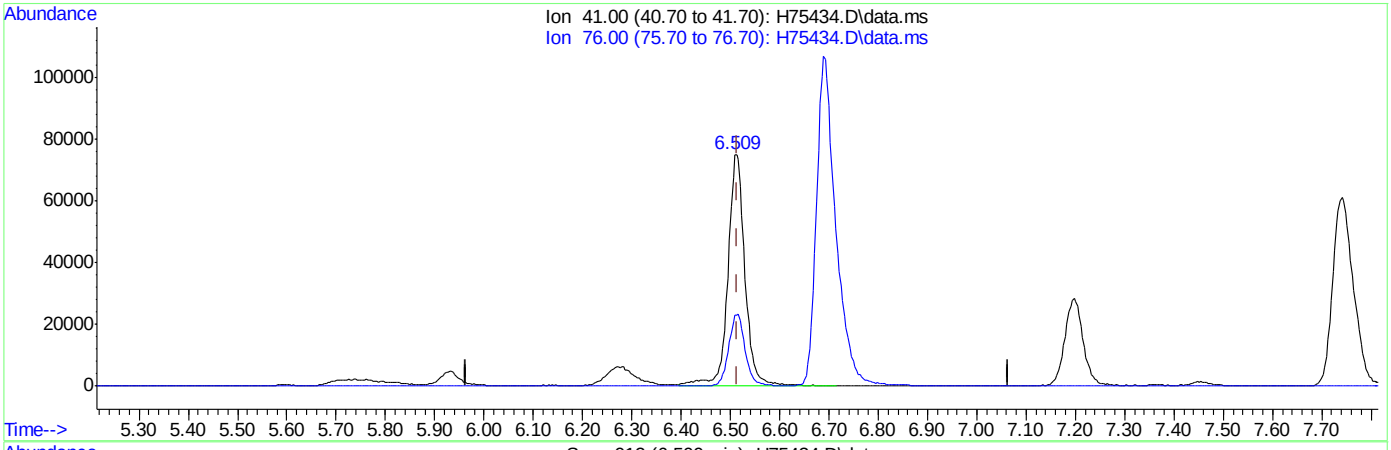
response 18141

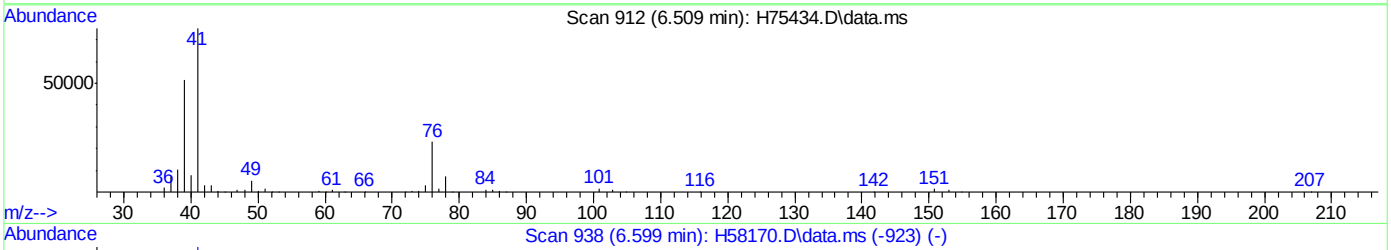
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	313.36
0.00	0.00	0.00
0.00	0.00	0.00

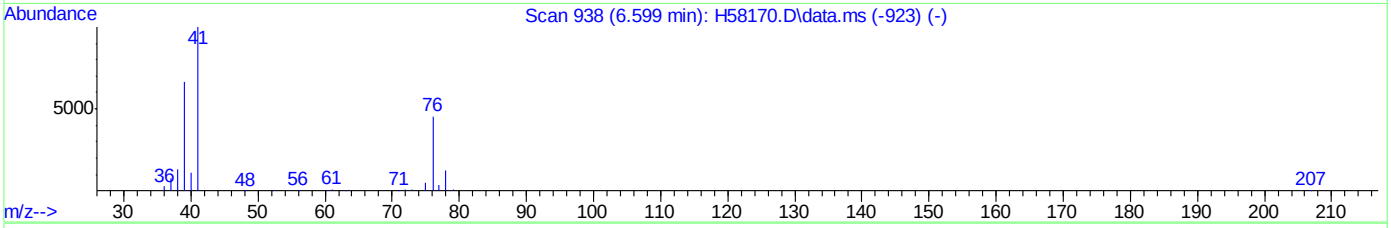
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:25:38 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75434.D\data.ms

(21) allyl chloride (p)

6.509min (-0.005) 58.42ug/L

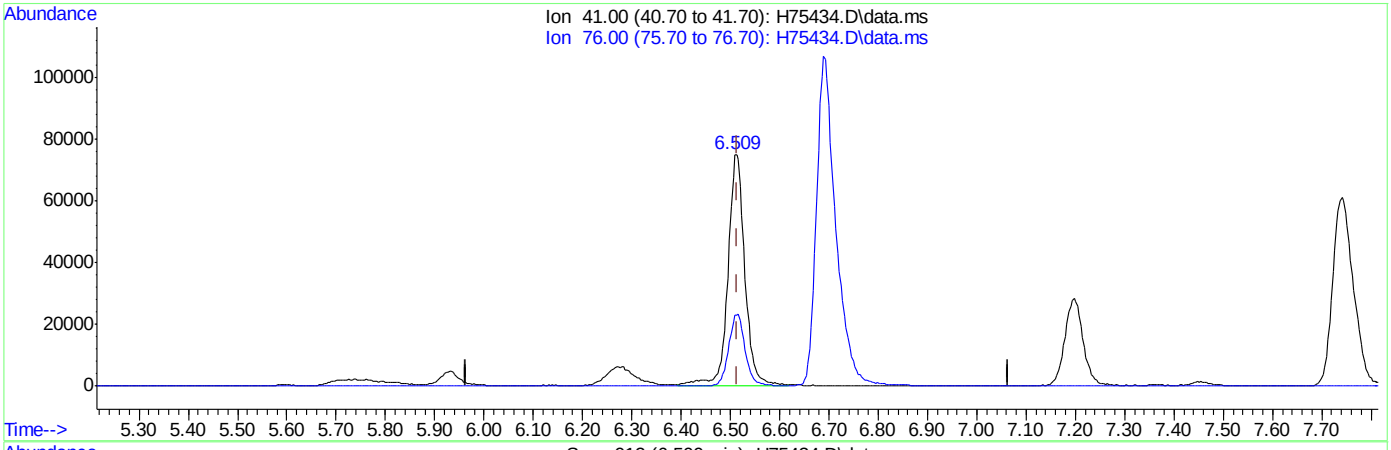
response 181922

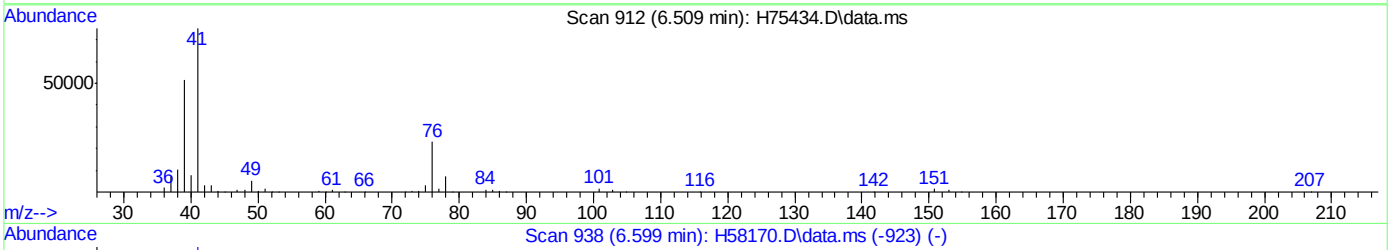
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.81
0.00	0.00	0.00
0.00	0.00	0.00

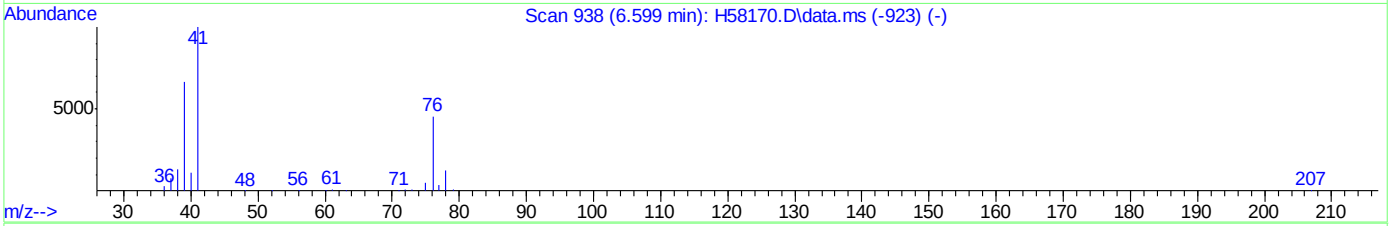
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:25:38 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75434.D\data.ms

(21) allyl chloride (p)

6.509min (-0.005) 57.47ug/L m

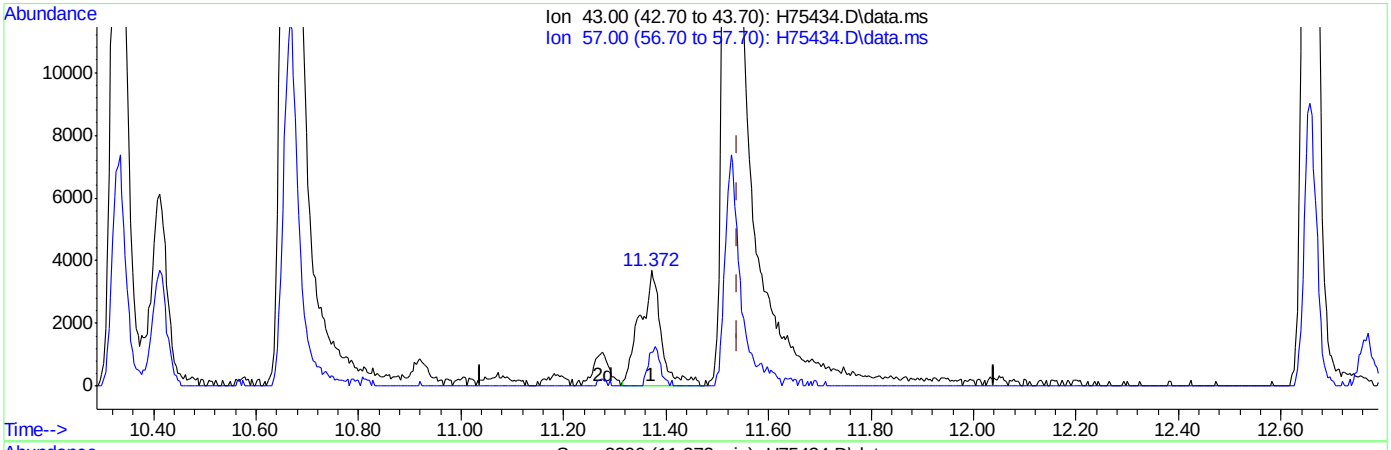
response 178977

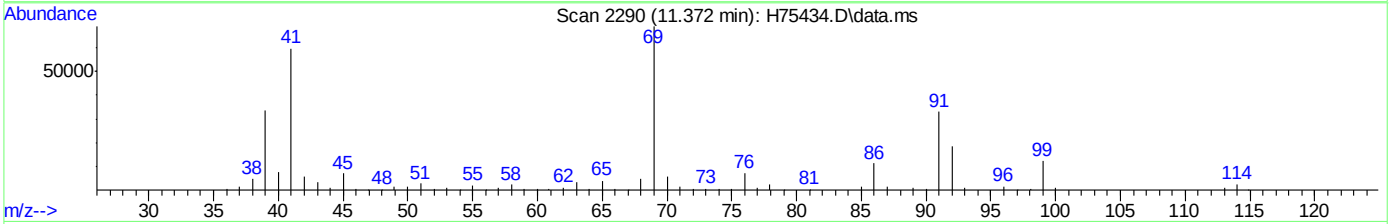
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.81
0.00	0.00	0.00
0.00	0.00	0.00

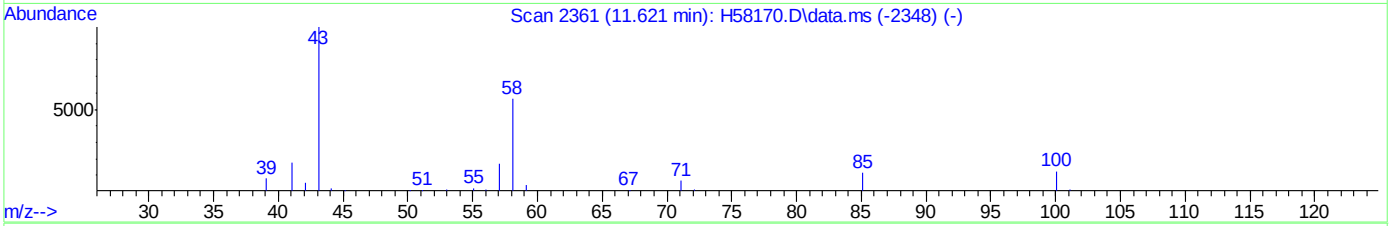
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:25:38 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75434.D\data.ms

(71) 2-hexanone (p)

11.372min (-0.168) 7.10ug/L

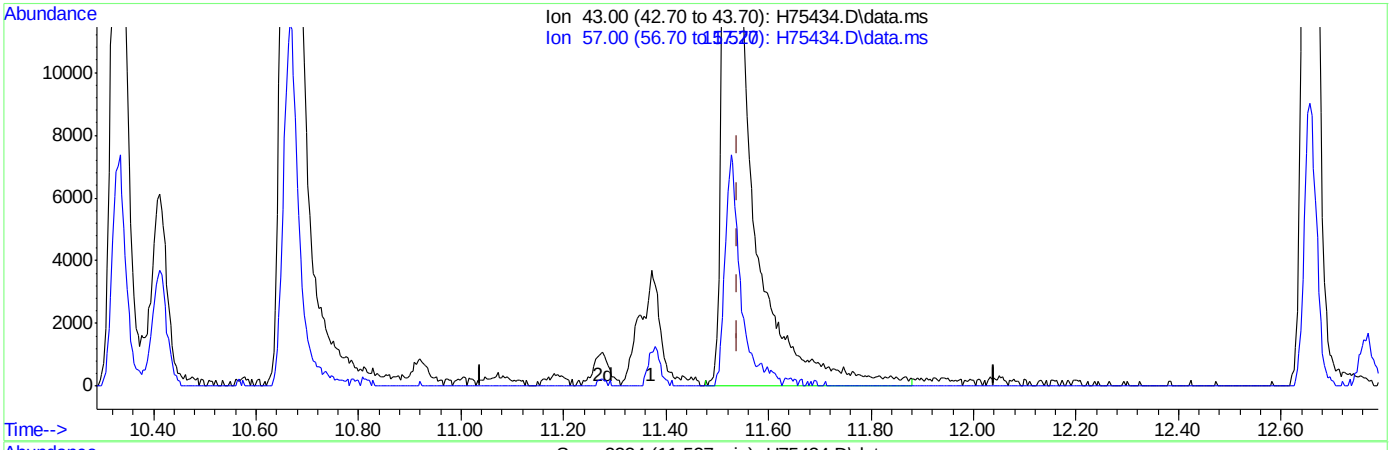
response 10751

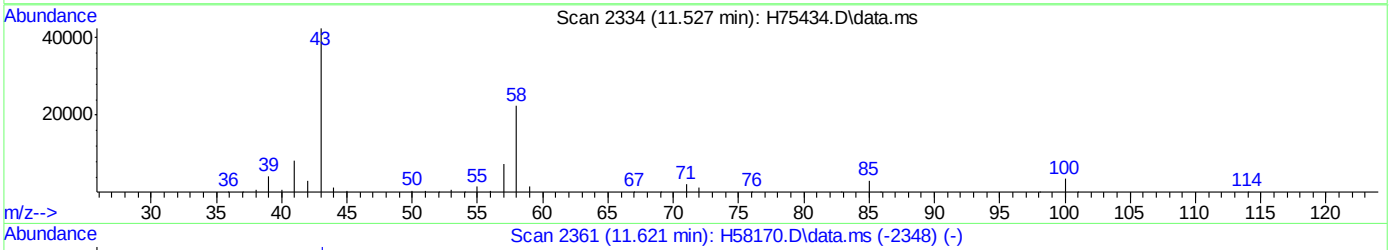
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	19.13
0.00	0.00	0.00
0.00	0.00	0.00

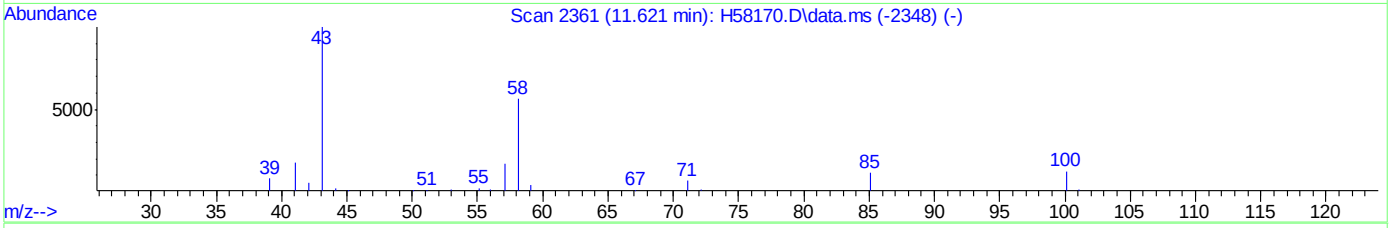
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75434.D
Acq On : 7 Oct 2015 11:05 am
Operator : kaylap
Sample : bs
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 11:25:38 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75434.D\data.ms

(71) 2-hexanone (p)

11.527min (-0.012) 69.08ug/L m

response 104668

Ion	Exp%	Act%
43.00	100	100
57.00	18.40	1.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/08/15 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On : 7 Oct 2015 8:23 pm
Operator : kaylap
Sample : mc41757-3ms
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 08:36:01 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.198	65	57487	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	140270	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	227040	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	144781	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	129293	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	77243	54.46	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.92%			
60) toluene-d8 (s)	11.276	98	279503	50.75	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.50%			
82) bromofluorobenzene (s)	13.965	95	123176	48.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.18%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.279	59	71690	539.98	ug/L	98
3) Ethanol	5.125	45	82098	4699.59	ug/L	97
5) dichlorodifluoromethane	4.031	85	28953	18.98	ug/L	98
6) chloromethane	4.271	50	59487	44.83	ug/L	92
7) vinyl chloride	4.497	62	65470	44.63	ug/L	98
8) bromomethane	4.949	96	42870	49.24	ug/L	98
9) chloroethane	5.100	64	45067	50.46	ug/L	99
11) trichlorofluoromethane	5.690	101	98260	44.84	ug/L	100
12) freon-113	6.459	101	77305	55.59	ug/L	89
13) acrolein	5.693	56	30993	492.58	ug/L	99
14) 1,1-dichloroethene	6.268	96	72047	59.80	ug/L	81
15) acetone	5.834	58	6486m	43.48	ug/L	
16) ethyl ether	5.930	59	69747	58.00	ug/L	86
17) methyl acetate	6.452	43	86696	63.28	ug/L	87
18) methylene chloride	6.452	84	90787	59.57	ug/L #	76
19) methyl tert butyl ether	7.193	73	221735	59.20	ug/L	90
20) acrylonitrile	6.325	53	33781	61.32	ug/L	94
21) allyl chloride	6.512	41	145649m	58.55	ug/L	
22) trans-1,2-dichloroethene	7.105	96	77311	57.60	ug/L	82
23) iodomethane	6.364	142	118339	54.86	ug/L	91
24) carbon disulfide	6.692	76	221150	50.21	ug/L	98
25) propionitrile	7.373	54	10921	53.95	ug/L	100
26) vinyl acetate	7.458	43	163329	61.82	ug/L	92
27) chloroprene	7.719	53	125903	54.28	ug/L	99
28) di-isopropyl ether	7.761	45	308495	62.39	ug/L	89
29) methacrylonitrile	7.871	41	52403	55.14	ug/L	94
30) 2-butanone	7.772	72	9662	57.45	ug/L #	70
31) 1,1-dichloroethane	7.355	63	158089	57.57	ug/L	96
32) tert-butyl ethyl ether	8.156	59	268149	58.31	ug/L	91
33) Hexane	7.740	41	145210	57.55	ug/L #	92
34) isobutyl alcohol	8.156	43	55413	471.01	ug/L	77
35) 2,2-dichloropropane	8.209	77	116418	57.61	ug/L	96
36) cis-1,2-dichloroethene	7.923	96	88467	59.94	ug/L	85
37) ethyl acetate	8.156	43	54432	91.89	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On : 7 Oct 2015 8:23 pm
Operator : kaylap
Sample : mc41757-3ms
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 08:36:01 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.089	128	42485	59.00	ug/L	#	50
39)	chloroform	8.125	83	158011	59.87	ug/L		99
41)	1,1,1-trichloroethane	8.876	97	131813	62.75	ug/L		91
43)	cyclohexane	9.162	56	138916	51.63	ug/L	#	76
44)	carbon tetrachloride	9.240	117	112853	63.44	ug/L		95
45)	1,1-dichloropropene	9.053	75	105787	53.92	ug/L		93
46)	benzene	9.275	78	321169	55.63	ug/L		100
47)	tetrahydrofuran	8.460	42	25046	52.10	ug/L		90
48)	1,2-dichloroethane	8.777	62	123405	57.30	ug/L		97
49)	tert-amyl methyl ether	9.402	73	212834	54.24	ug/L		90
50)	heptane	9.762	43	106617	52.47	ug/L		92
51)	trichloroethene	9.896	95	85000	56.19	ug/L		77
52)	1,2-dichloropropane	9.861	63	90522	56.46	ug/L		94
53)	dibromomethane	9.833	93	56297	58.56	ug/L		92
54)	bromodichloromethane	9.949	83	111965	58.18	ug/L		97
55)	methylcyclohexane	10.415	83	127042	51.71	ug/L		83
57)	methyl methacrylate	10.055	69	54196	54.00	ug/L		91
58)	1,4-dioxane	10.062	88	2720	203.22	ug/L		95
59)	cis-1,3-dichloropropene	10.574	75	124823	58.10	ug/L		88
61)	4-methyl-2-pentanone	10.665	43	90332	55.50	ug/L		91
62)	toluene	11.346	92	195693	55.50	ug/L		97
63)	trans-1,3-dichloropropene	10.994	75	110864	51.01	ug/L		100
64)	1,1,2-trichloroethane	11.166	83	66854	56.97	ug/L		86
65)	ethyl methacrylate	11.375	69	108195	56.31	ug/L		90
67)	tetrachloroethene	12.087	166	85839	49.73	ug/L		93
68)	1,3-dichloropropane	11.396	76	137631	53.09	ug/L		96
69)	dibromochloromethane	11.685	129	80664	47.20	ug/L		97
70)	1,2-dibromoethane	11.936	107	78538	51.44	ug/L		96
71)	2-hexanone	11.530	43	59515	47.50	ug/L		92
72)	chlorobenzene	12.769	112	222726	48.48	ug/L		90
73)	1,1,1,2-tetrachloroethane	12.684	131	77758	54.70	ug/L		95
74)	ethylbenzene	12.945	91	388718	52.73	ug/L		97
75)	m,p-xylene	13.132	106	297677	107.64	ug/L		97
76)	o-xylene	13.545	106	144826	51.04	ug/L		98
77)	styrene	13.474	104	218183	45.71	ug/L		96
78)	bromoform	13.291	173	50267	52.13	ug/L		96
79)	trans-1,4-dichloro-2-b...	13.697	53	29146	52.39	ug/L	#	79
81)	isopropylbenzene	13.908	105	362929	48.35	ug/L		99
83)	bromobenzene	14.191	156	99259	47.84	ug/L	#	81
84)	1,1,2,2-tetrachloroethane	13.548	83	101079	55.22	ug/L		96
85)	1,2,3-trichloropropane	13.697	75	109044	52.46	ug/L		94
86)	n-propylbenzene	14.356	91	427405	48.27	ug/L		95
87)	2-chlorotoluene	14.469	91	260280	49.15	ug/L		89
88)	4-chlorotoluene	14.547	91	279186	50.11	ug/L		89
89)	1,3,5-trimethylbenzene	14.635	105	311676	52.84	ug/L		100
90)	tert-butylbenzene	14.939	91	183034	50.91	ug/L		88
91)	1,2,4-trimethylbenzene	15.045	105	309027	52.22	ug/L		98
92)	sec-butylbenzene	15.161	105	389268	50.91	ug/L		98
93)	1,3-dichlorobenzene	15.260	146	178999	50.98	ug/L		99
94)	p-isopropyltoluene	15.337	119	334003	51.96	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On : 7 Oct 2015 8:23 pm
Operator : kaylap
Sample : mc41757-3ms
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 08:36:01 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.327	146	195240	50.98	ug/L	98
96) 1,2-dichlorobenzene	15.697	146	168595	52.87	ug/L	98
97) n-butylbenzene	15.757	91	311592	54.68	ug/L	90
98) 1,2-dibromo-3-chloropr...	16.181	75	10943	60.11	ug/L	88
99) 1,3,5-trichlorobenzene	16.992	180	96764	49.40	ug/L	95
100) 1,2,4-trichlorobenzene	17.550	180	55246	55.72	ug/L	96
101) hexachlorobutadiene	17.850	225	39209	53.43	ug/L	97
102) naphthalene	17.829	128	79461	53.27	ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	55246	55.72	ug/L	98

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

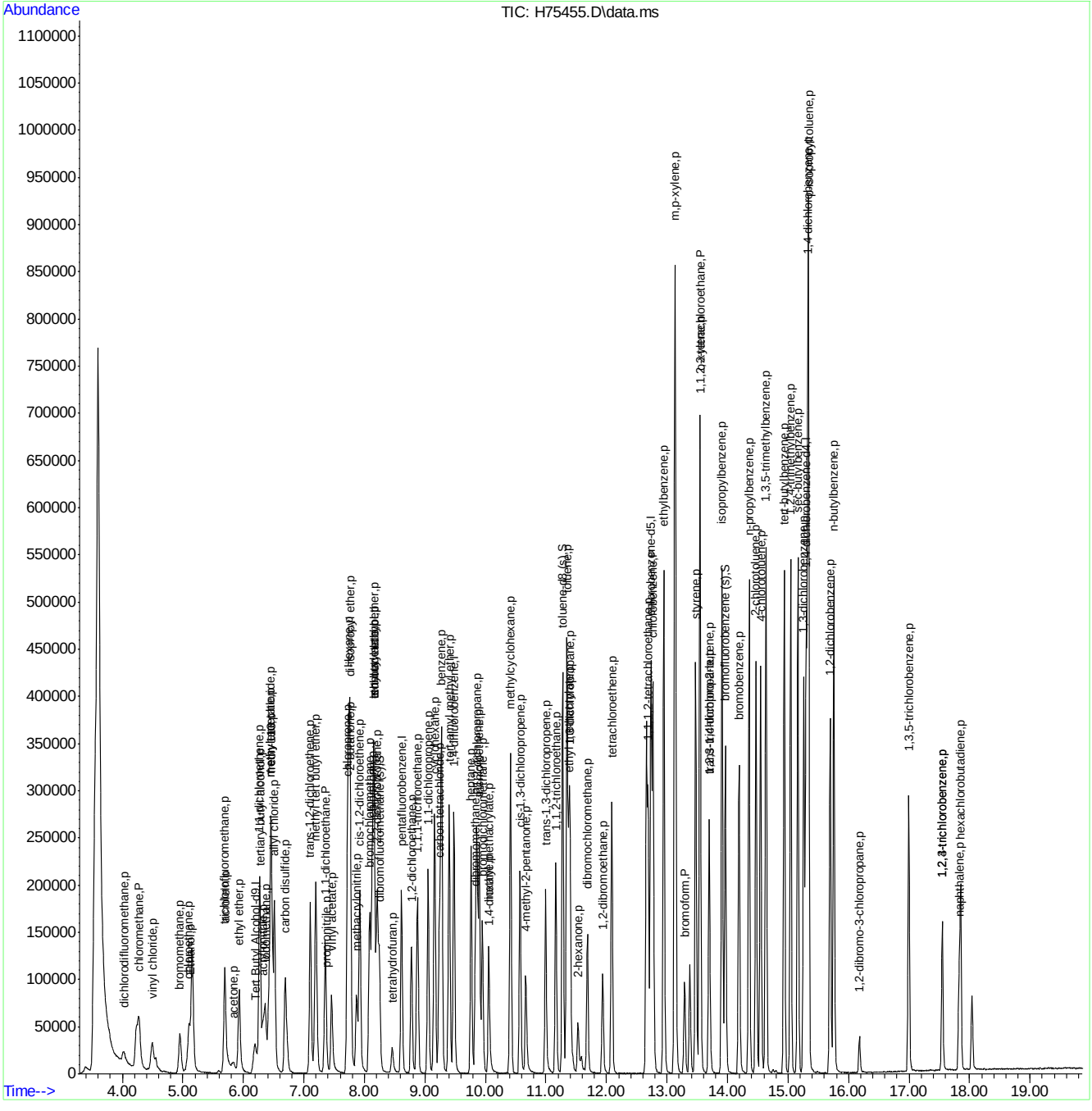
7.4.1

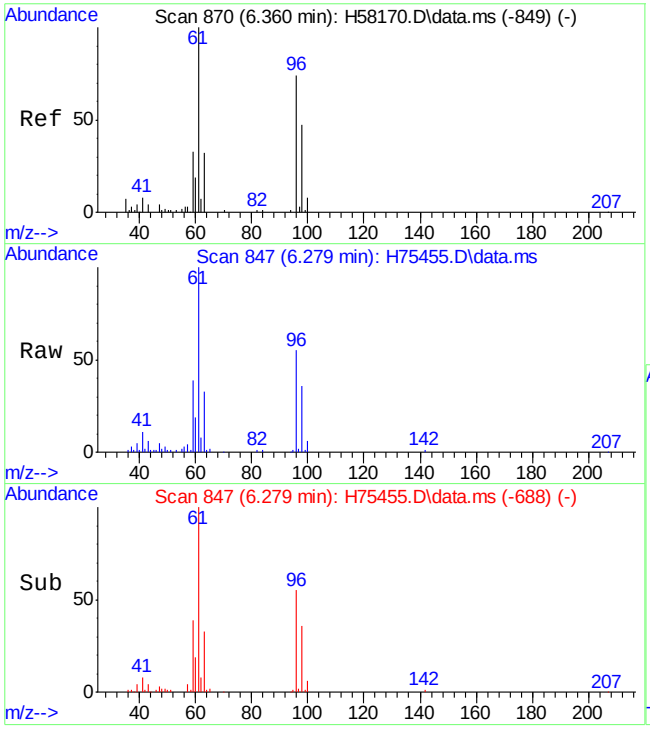
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On : 7 Oct 2015 8:23 pm
Operator : kaylap
Sample : mc41757-3ms
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 08:36:01 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

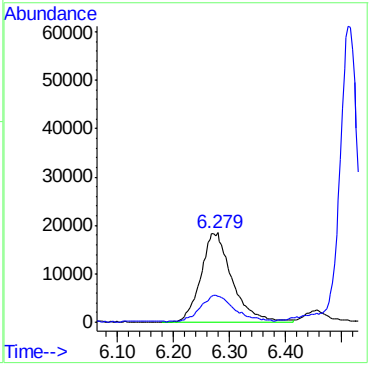


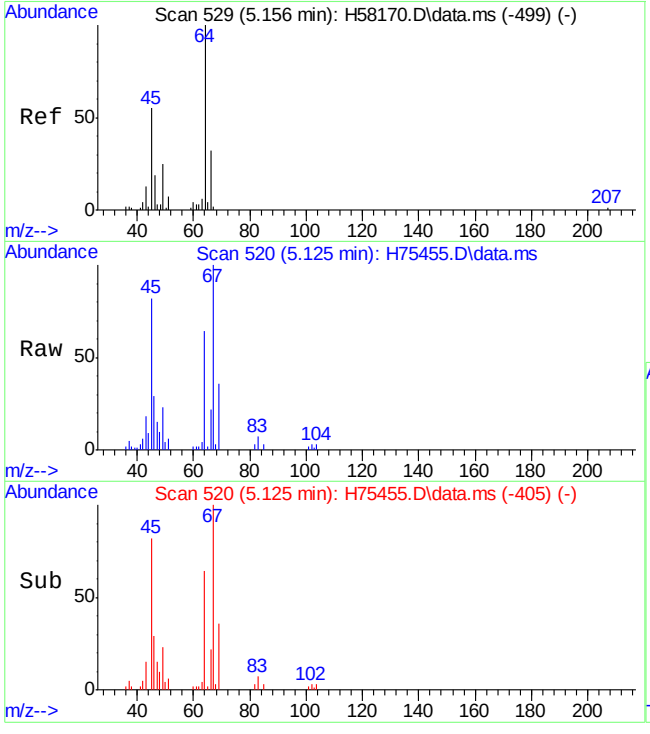


#2
tertiary butyl alcohol
Concen: 539.98 ug/L
RT: 6.279 min Scan# 847
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 59 Resp: 71690

Ion	Ratio	Lower	Upper
59	100		
41	28.3	0.0	57.4

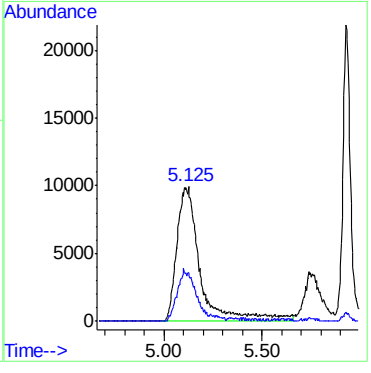


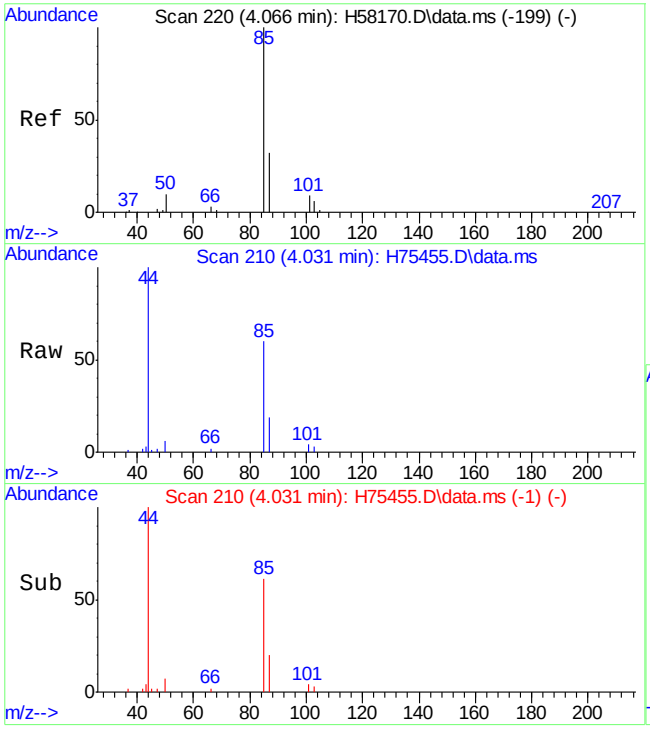


#3
Ethanol
Concen: 4699.59 ug/L
RT: 5.125 min Scan# 520
Delta R.T. 0.005 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 45 Resp: 82098

Ion	Ratio	Lower	Upper
45	100		
46	32.7	27.7	41.5

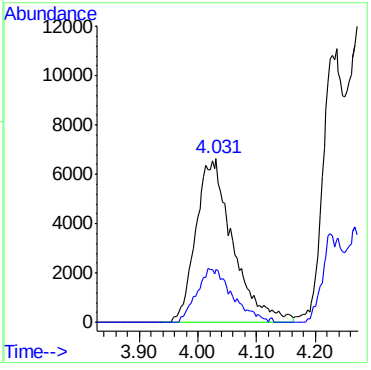


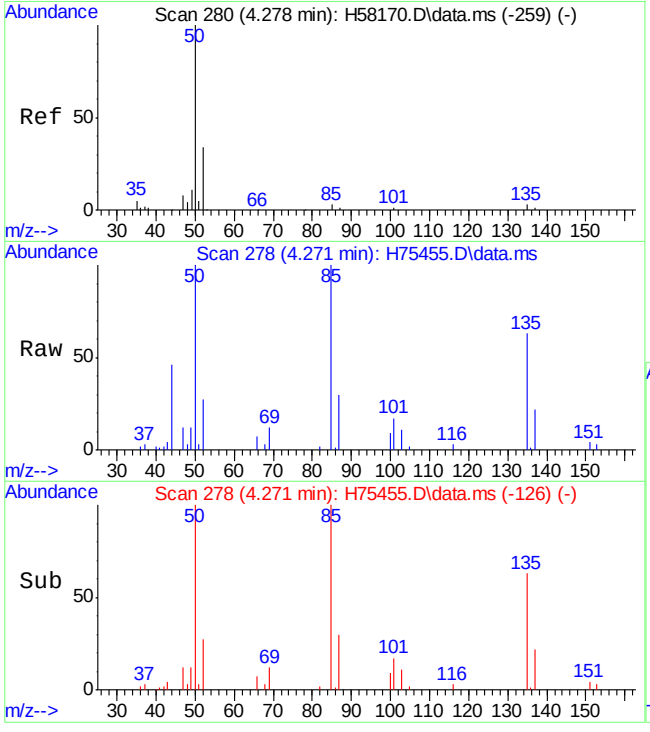


#5
dichlorodifluoromethane
Concen: 18.98 ug/L
RT: 4.031 min Scan# 210
Delta R.T. 0.008 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 85 Resp: 28953

Ion	Ratio	Lower	Upper
85	100		
87	32.5	1.5	61.5

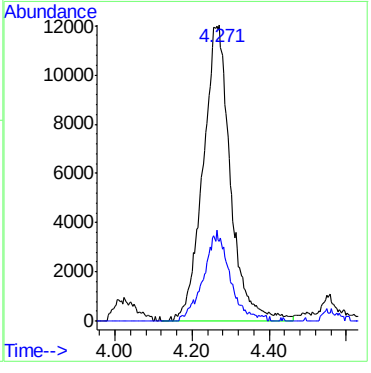


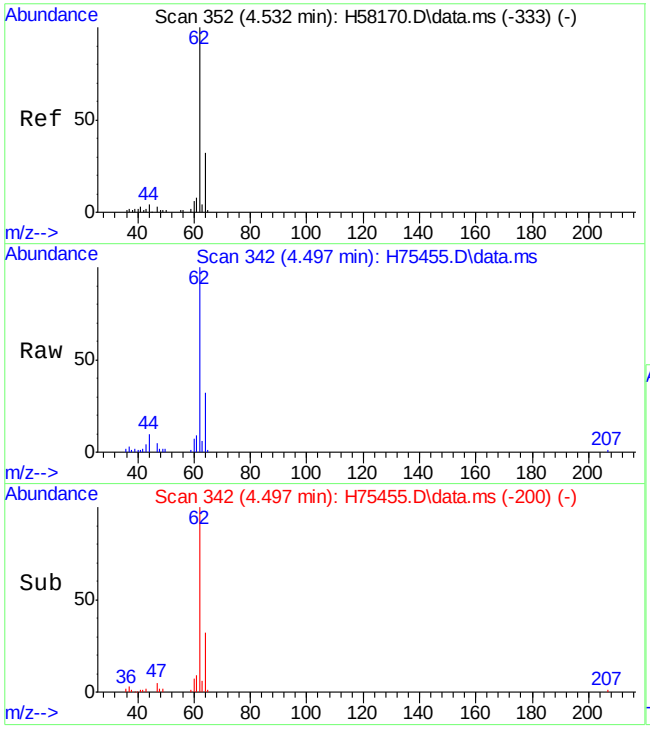


#6
chloromethane
Concen: 44.83 ug/L
RT: 4.271 min Scan# 278
Delta R.T. 0.008 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 50 Resp: 59487

Ion	Ratio	Lower	Upper
50	100		
52	27.1	1.7	61.7

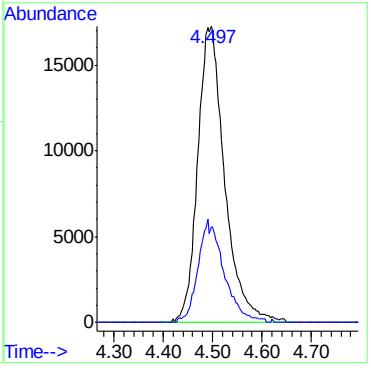


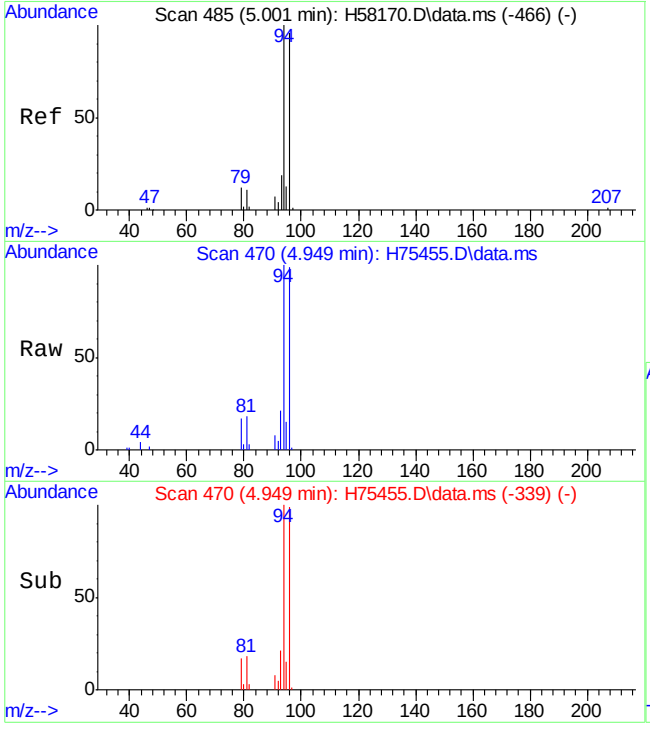


#7
vinyl chloride
Concen: 44.63 ug/L
RT: 4.497 min Scan# 342
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 62 Resp: 65470

Ion	Ratio	Lower	Upper
62	100		
64	32.0	3.2	63.2

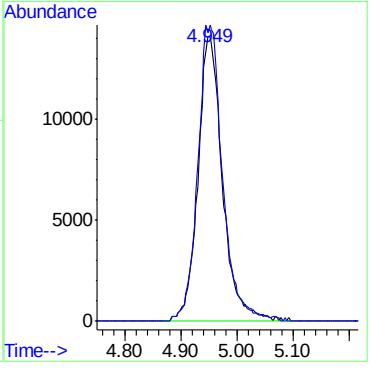


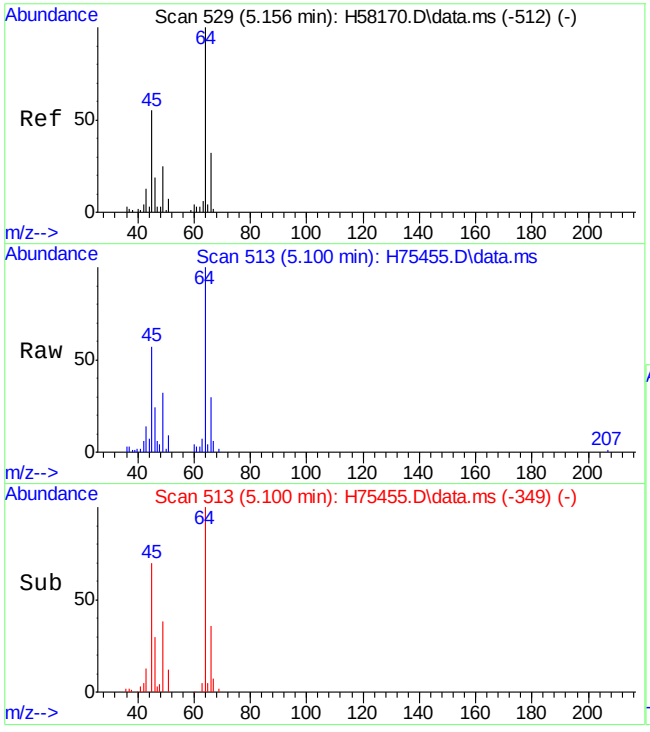


#8
bromomethane
Concen: 49.24 ug/L
RT: 4.949 min Scan# 470
Delta R.T. 0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 96 Resp: 42870

Ion	Ratio	Lower	Upper
96	100		
94	101.1	72.8	132.8

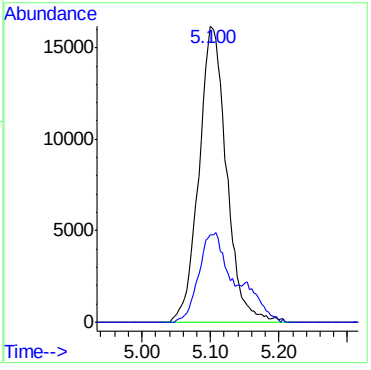


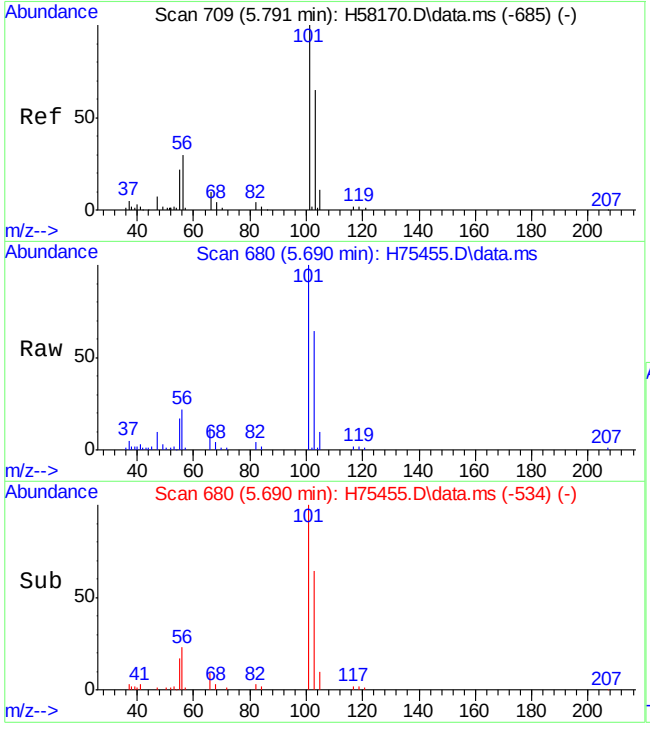


#9
chloroethane
Concen: 50.46 ug/L
RT: 5.100 min Scan# 513
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 64 Resp: 45067

Ion	Ratio	Lower	Upper
64	100		
66	29.7	0.3	60.3

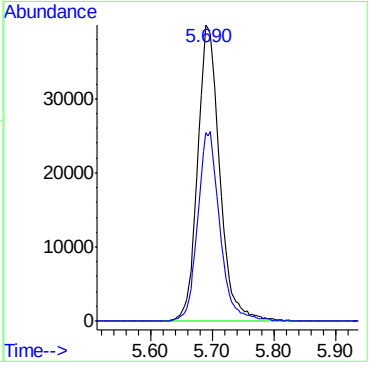


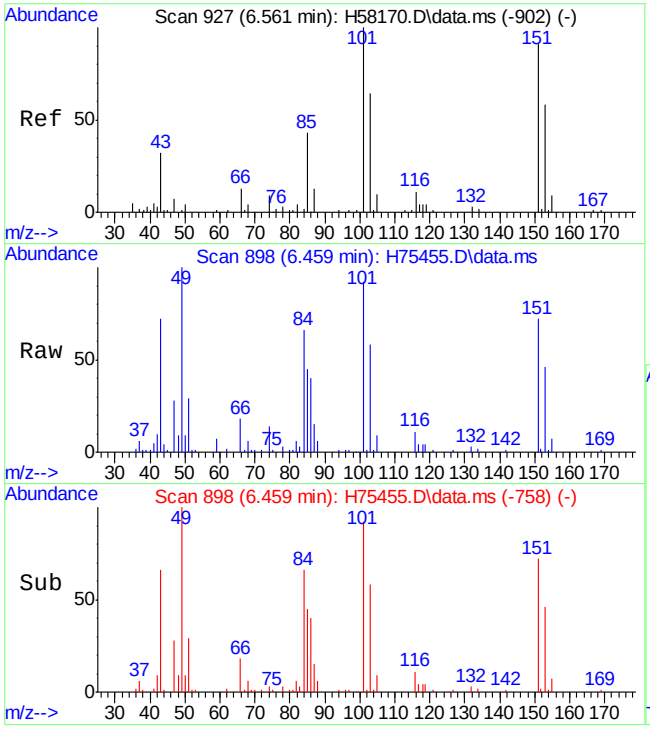


#11
trichlorofluoromethane
Concen: 44.84 ug/L
RT: 5.690 min Scan# 680
Delta R.T. -0.005 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:101 Resp: 98260

Ion	Ratio	Lower	Upper
101	100		
103	63.6	33.5	93.5

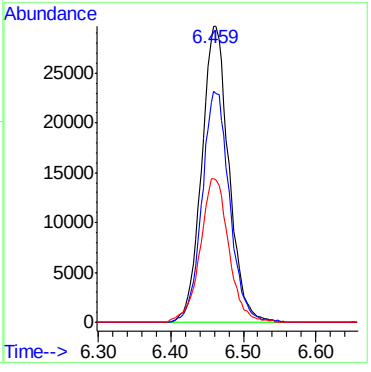


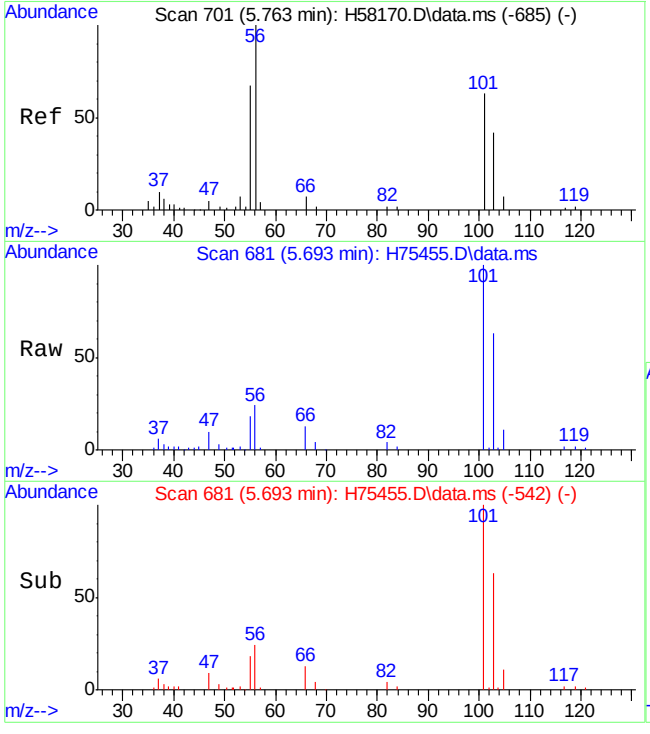


#12
freon-113
Concen: 55.59 ug/L
RT: 6.459 min Scan# 898
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:101 Resp: 77305

Ion	Ratio	Lower	Upper
101	100		
151	78.0	57.8	117.8
85	48.7	10.8	70.8

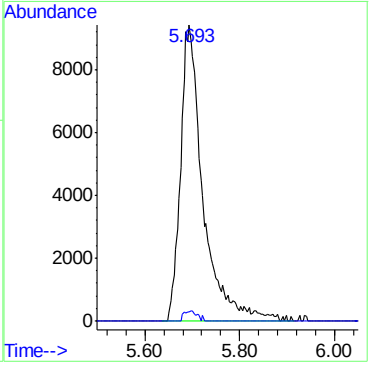




#13
acrolein
Concen: 492.58 ug/L
RT: 5.693 min Scan# 681
Delta R.T. -0.010 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 56 Resp: 30993

Ion	Ratio	Lower	Upper
56	100		
52	3.1	0.0	32.7



7.4.1

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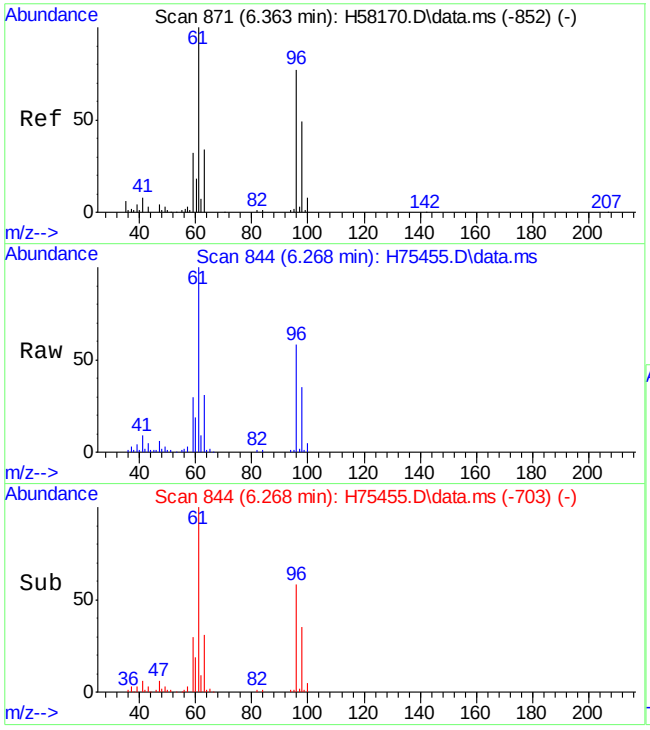
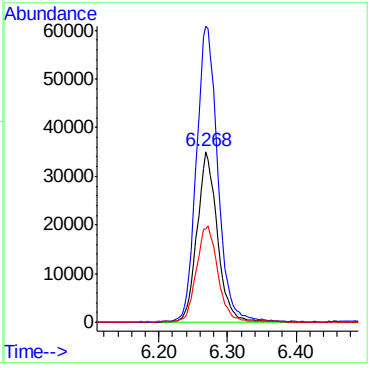
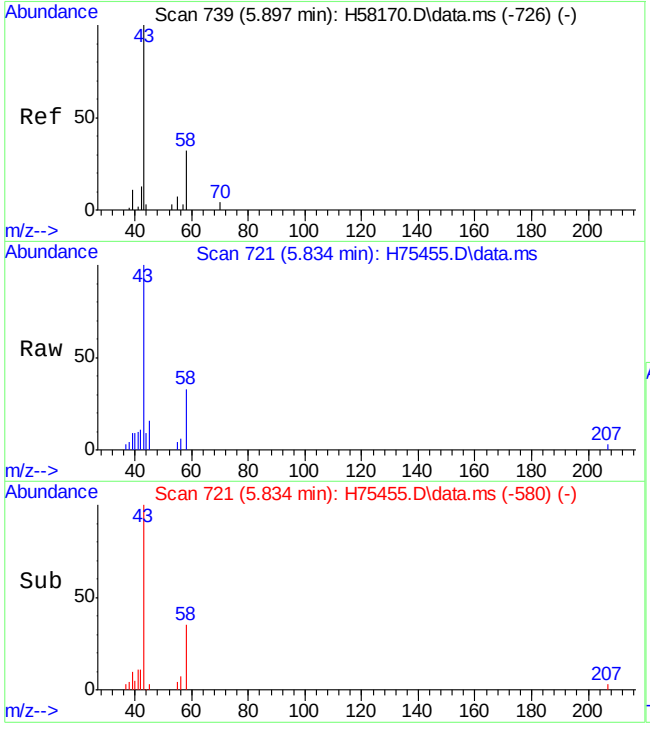


#14
1,1-dichloroethene
Concen: 59.80 ug/L
RT: 6.268 min Scan# 844
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 96 Resp: 72047

Ion	Ratio	Lower	Upper
96	100		
61	173.1	114.6	174.6
63	54.5	18.4	78.4

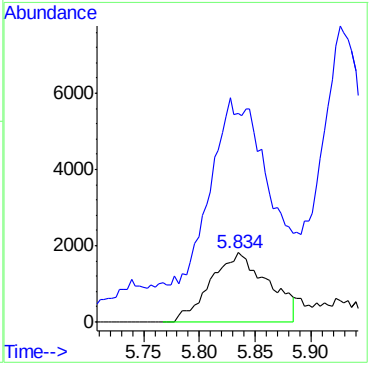


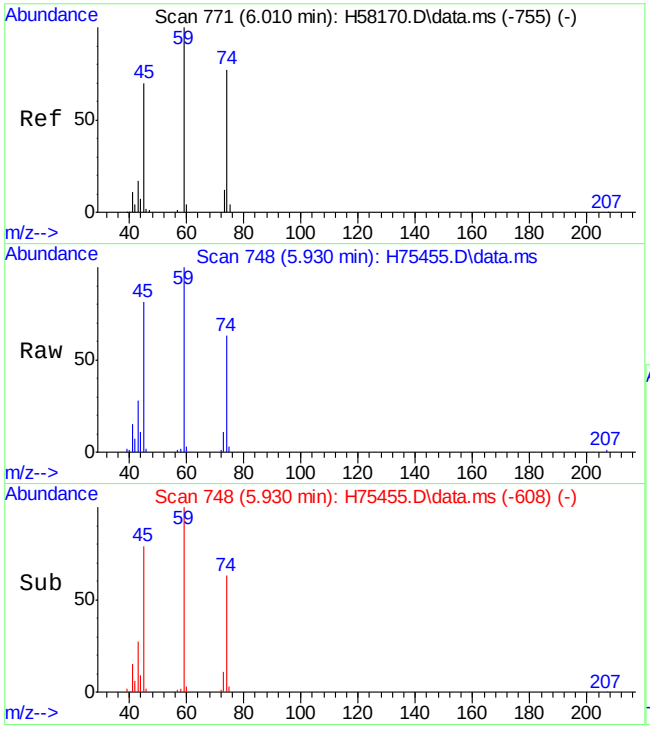


#15
acetone
Concen: 43.48 ug/L m
RT: 5.834 min Scan# 721
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 58 Resp: 6486

Ion	Ratio	Lower	Upper
58	100		
43	301.2	270.8	330.8

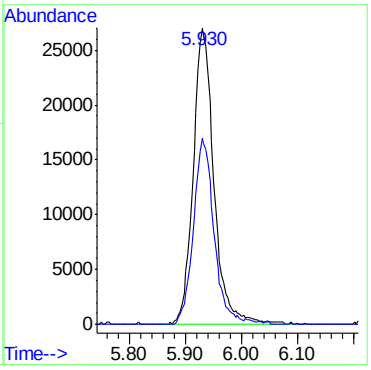


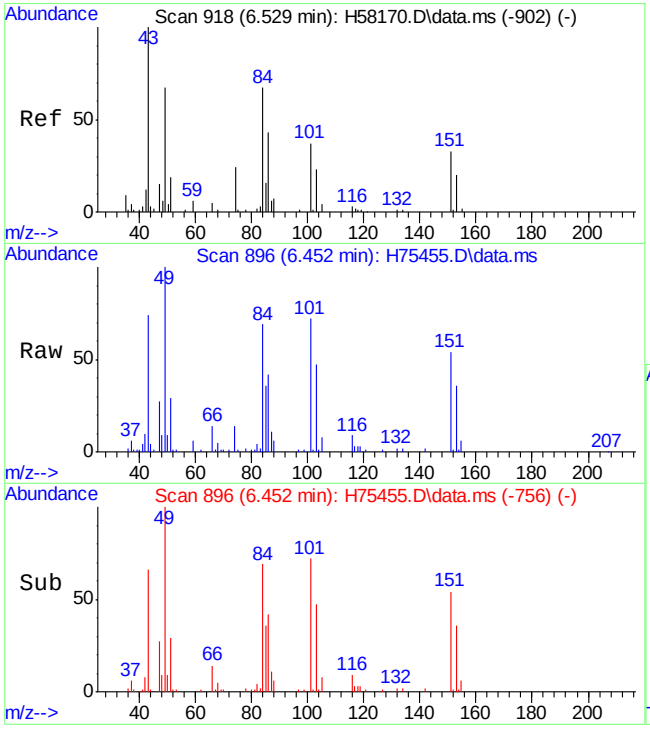


#16
ethyl ether
Concen: 58.00 ug/L
RT: 5.930 min Scan# 748
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 59 Resp: 69747

Ion	Ratio	Lower	Upper
59	100		
74	63.0	45.0	105.0

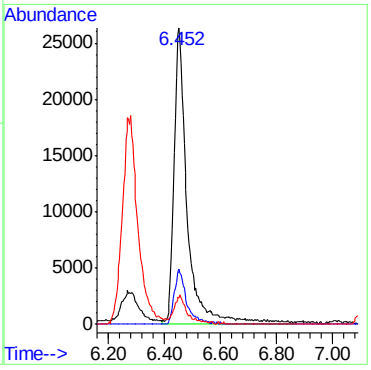




#17
methyl acetate
Concen: 63.28 ug/L
RT: 6.452 min Scan# 896
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

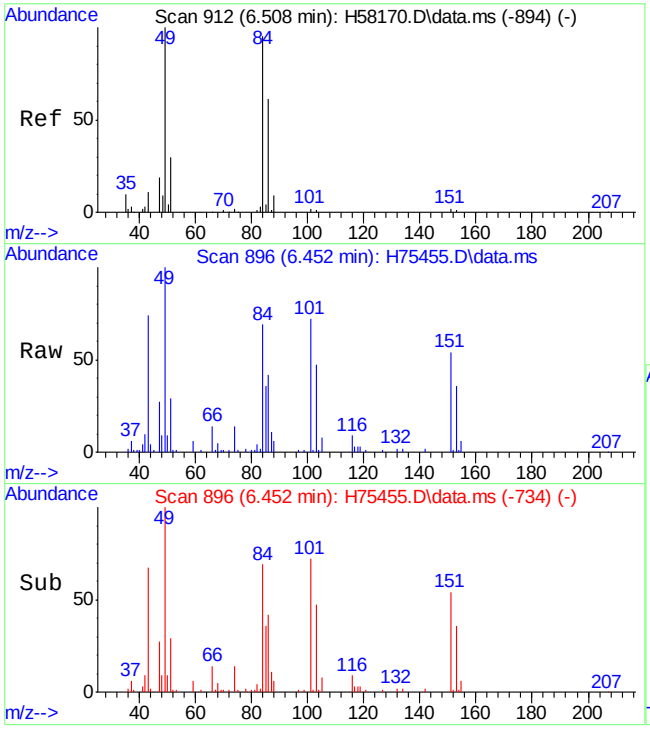
Tgt Ion: 43 Resp: 86696

Ion	Ratio	Lower	Upper
43	100		
74	18.4	5.4	45.4
59	8.7	0.0	33.3



7.4.1

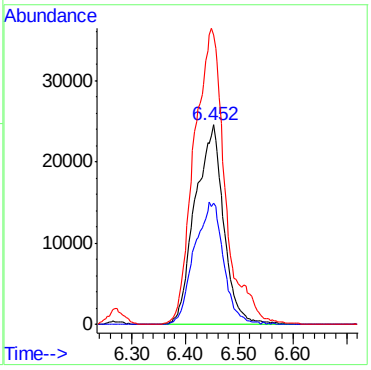
7

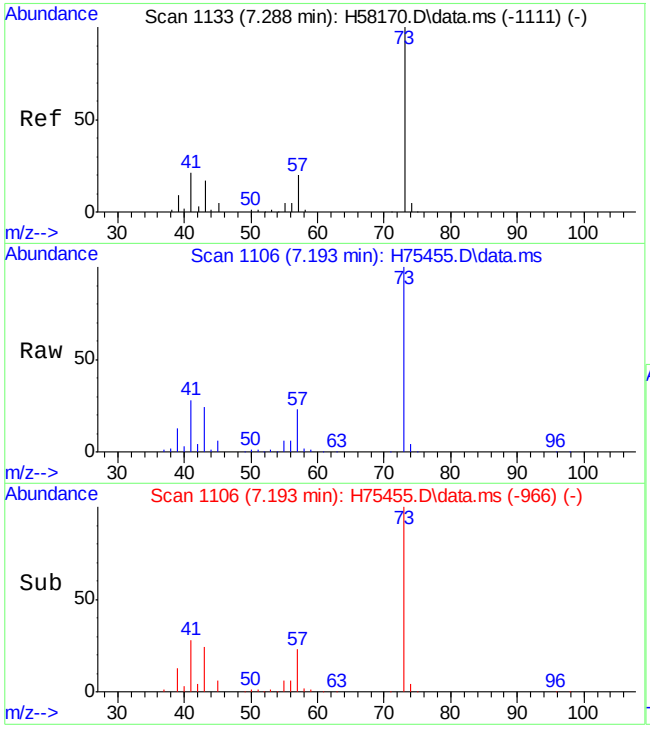


#18
methylene chloride
Concen: 59.57 ug/L
RT: 6.452 min Scan# 896
Delta R.T. 0.012 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 84 Resp: 90787

Ion	Ratio	Lower	Upper
84	100		
86	60.6	28.8	88.8
49	145.2	77.5	137.5#

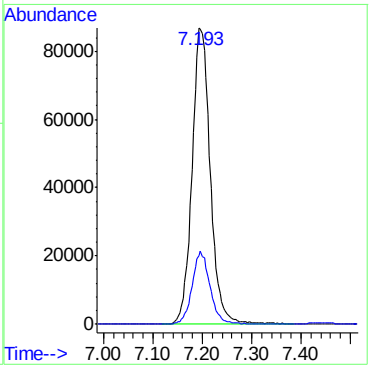


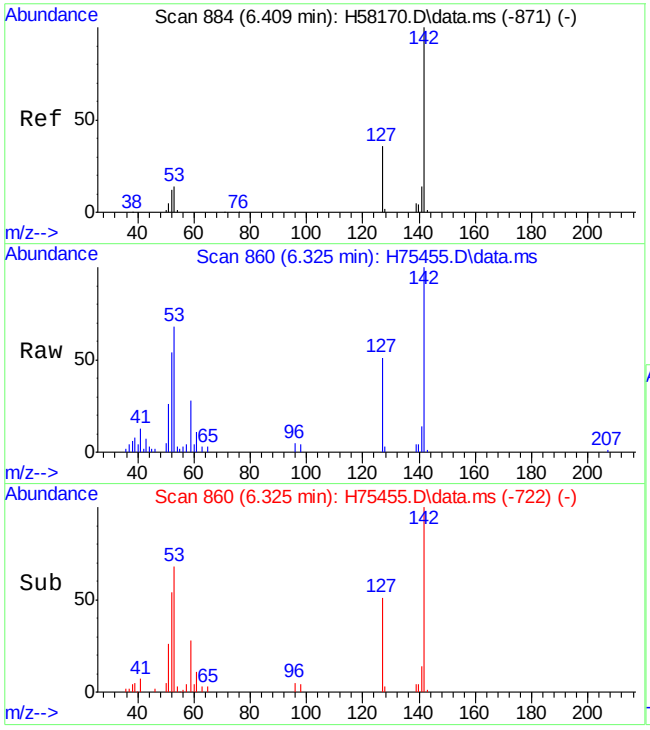


#19
methyl tert butyl ether
Concen: 59.20 ug/L
RT: 7.193 min Scan# 1106
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 73 Resp: 221735

Ion	Ratio	Lower	Upper
73	100		
57	23.3	0.0	48.6

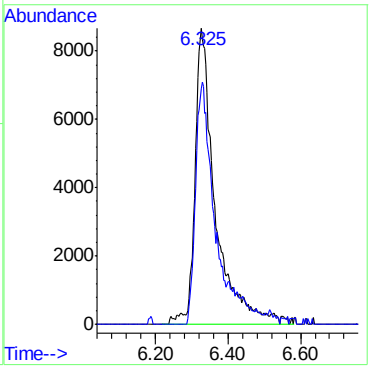


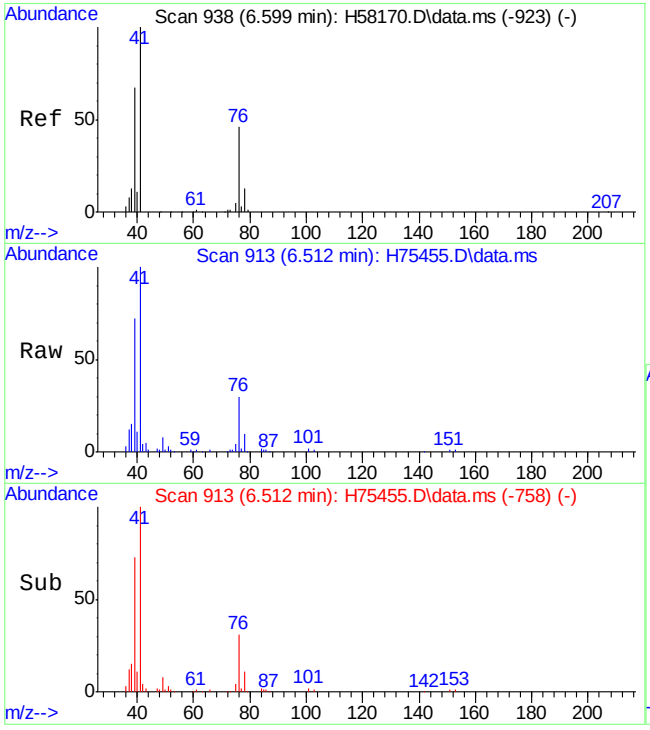


#20
acrylonitrile
Concen: 61.32 ug/L
RT: 6.325 min Scan# 860
Delta R.T. -0.013 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 53 Resp: 33781

Ion	Ratio	Lower	Upper
53	100		
52	79.5	54.8	114.8

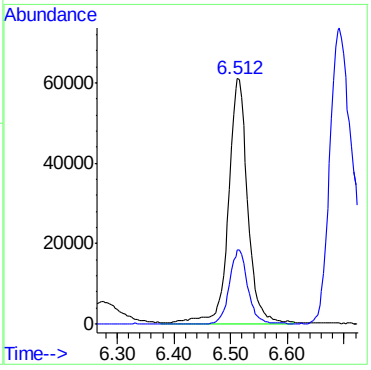


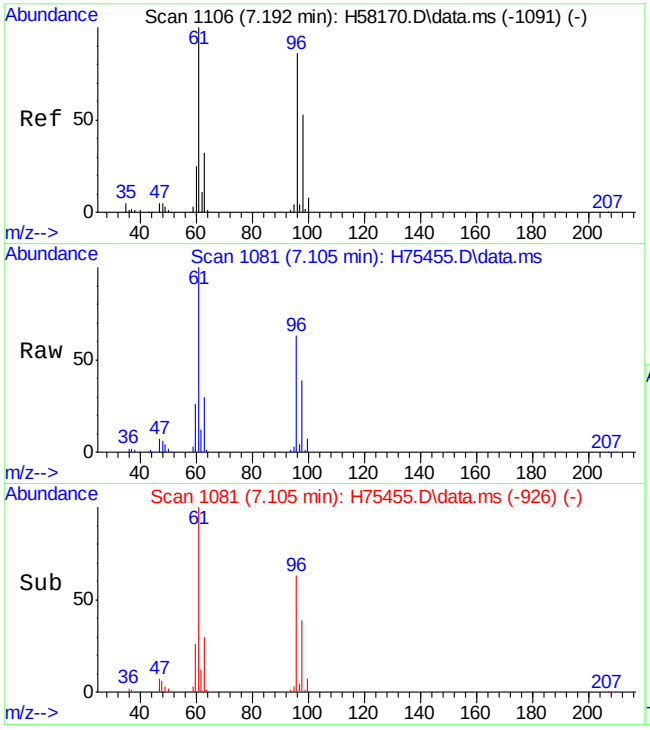


#21
allyl chloride
Concen: 58.55 ug/L m
RT: 6.512 min Scan# 913
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 41 Resp: 145649

Ion	Ratio	Lower	Upper
41	100		
76	30.1	7.8	67.8

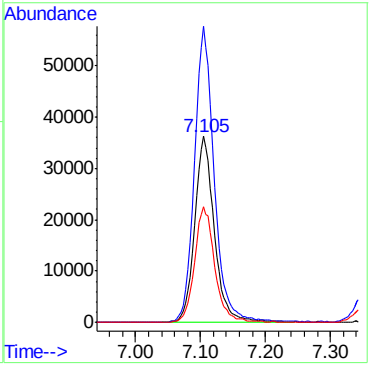


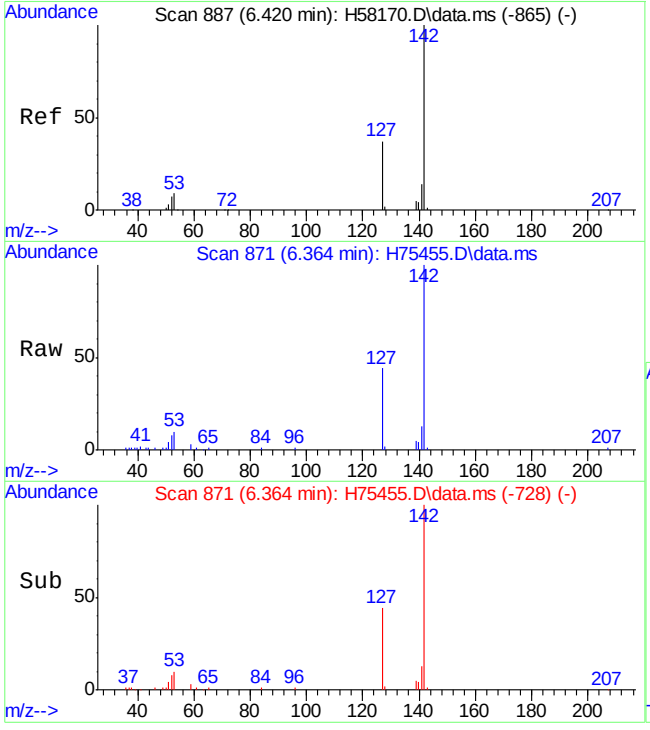


#22
trans-1,2-dichloroethene
Concen: 57.60 ug/L
RT: 7.105 min Scan# 1081
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 96 Resp: 77311

Ion	Ratio	Lower	Upper
96	100		
61	159.0	99.9	159.9
98	62.2	34.7	94.7

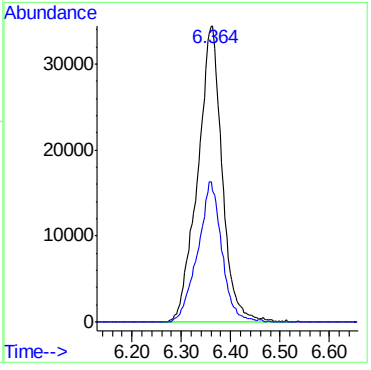


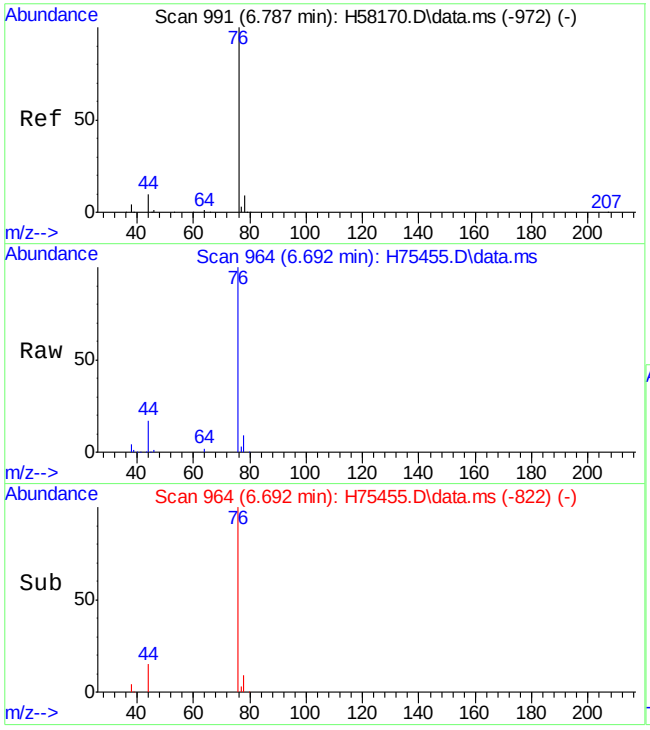


#23
iodomethane
Concen: 54.86 ug/L
RT: 6.364 min Scan# 871
Delta R.T. 0.004 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:142 Resp: 118339

Ion	Ratio	Lower	Upper
142	100		
127	44.2	20.4	80.4

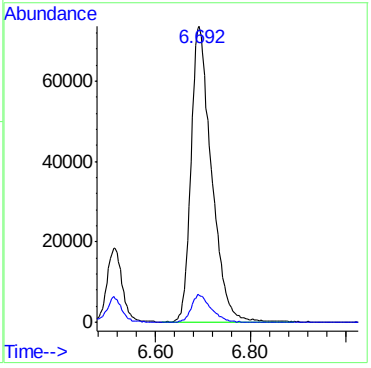


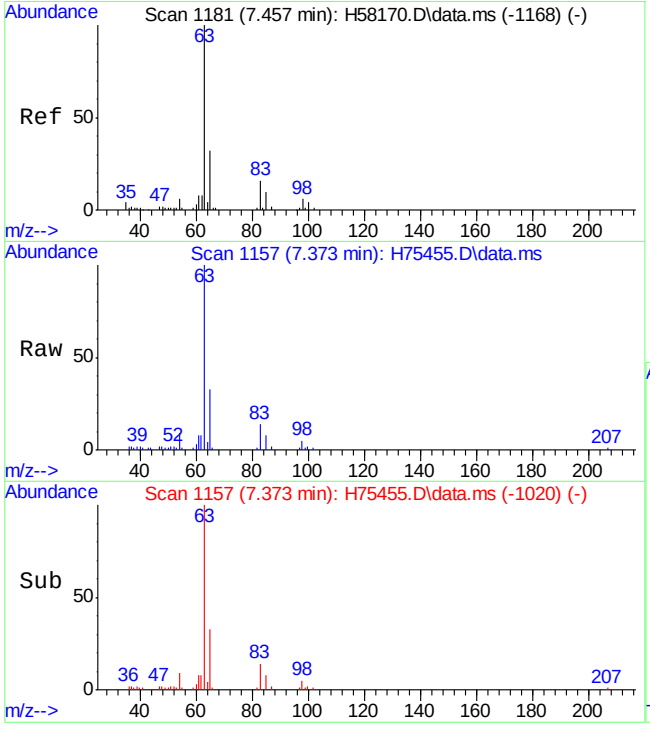


#24
carbon disulfide
Concen: 50.21 ug/L
RT: 6.692 min Scan# 964
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 76 Resp: 221150

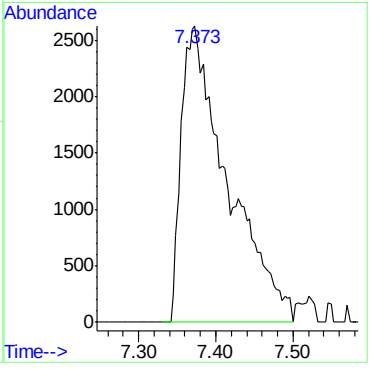
Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	40.1

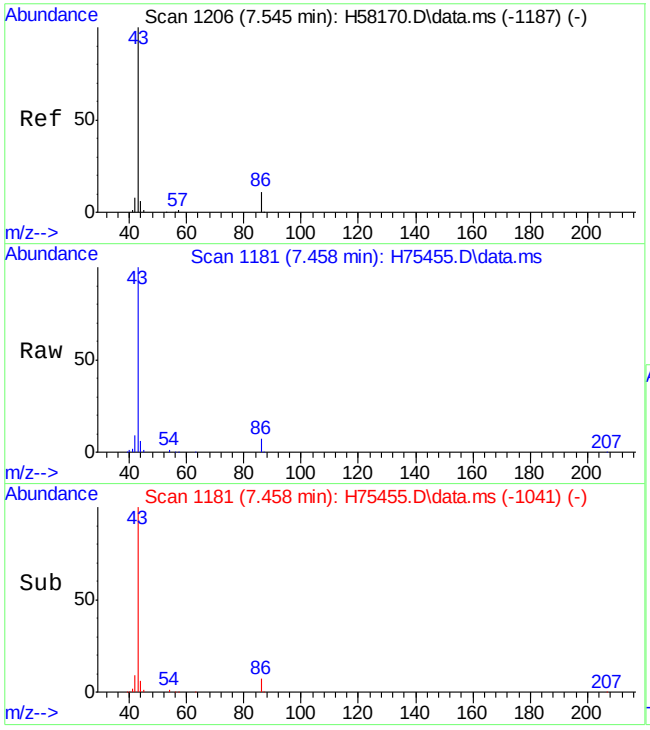




#25
propionitrile
Concen: 53.95 ug/L
RT: 7.373 min Scan# 1157
Delta R.T. -0.016 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 54 Resp: 10921

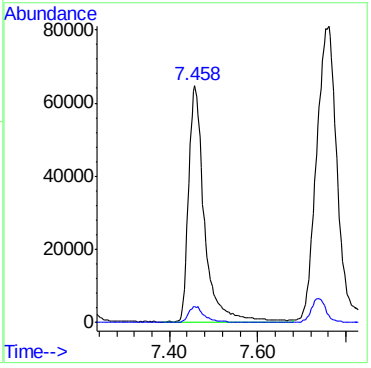


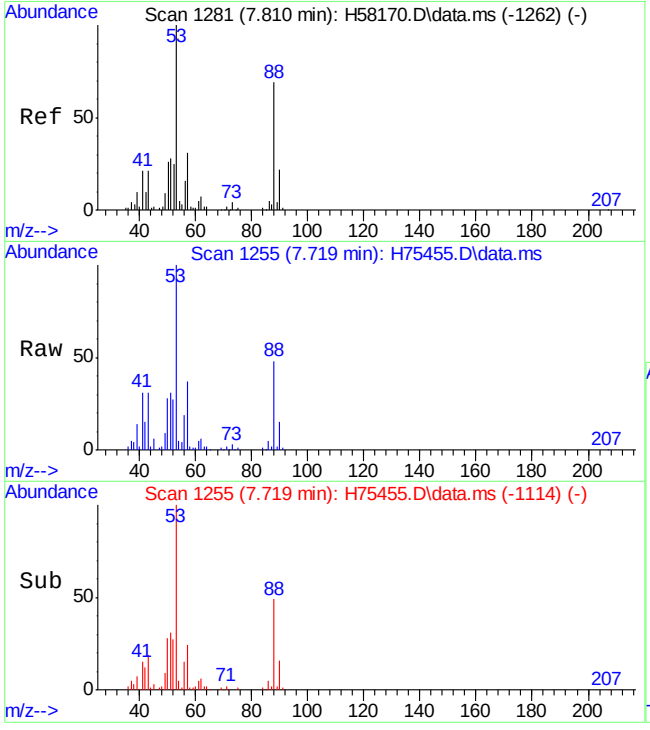


#26
vinyl acetate
Concen: 61.82 ug/L
RT: 7.458 min Scan# 1181
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 43 Resp: 163329

Ion	Ratio	Lower	Upper
43	100		
86	6.8	0.0	39.7

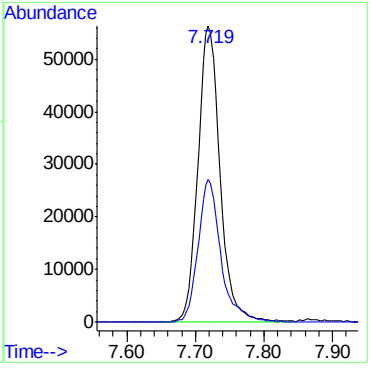




#27
chloroprene
Concen: 54.28 ug/L
RT: 7.719 min Scan# 1255
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

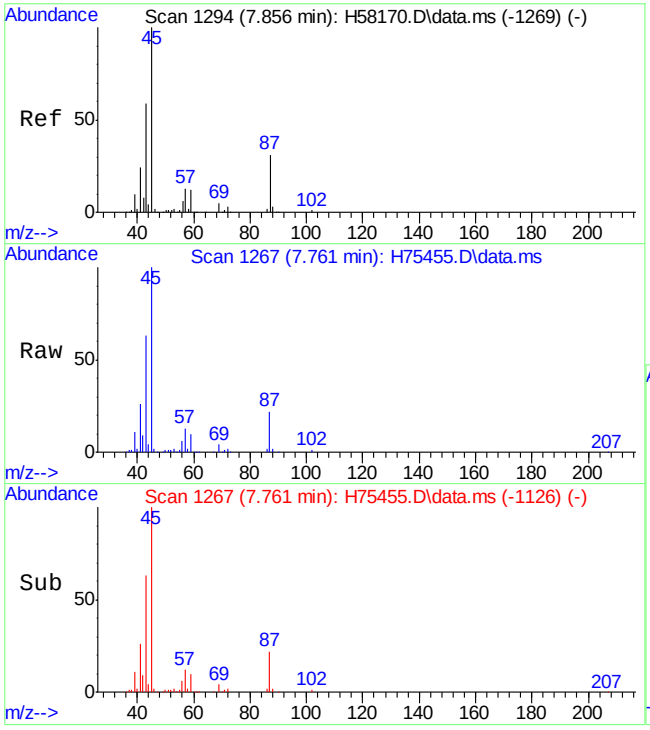
Tgt Ion: 53 Resp: 125903

Ion	Ratio	Lower	Upper
53	100		
88	48.3	19.0	79.0



7.4.1

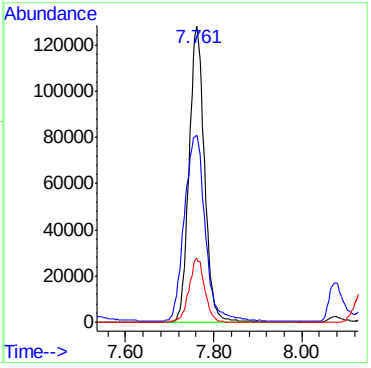
7

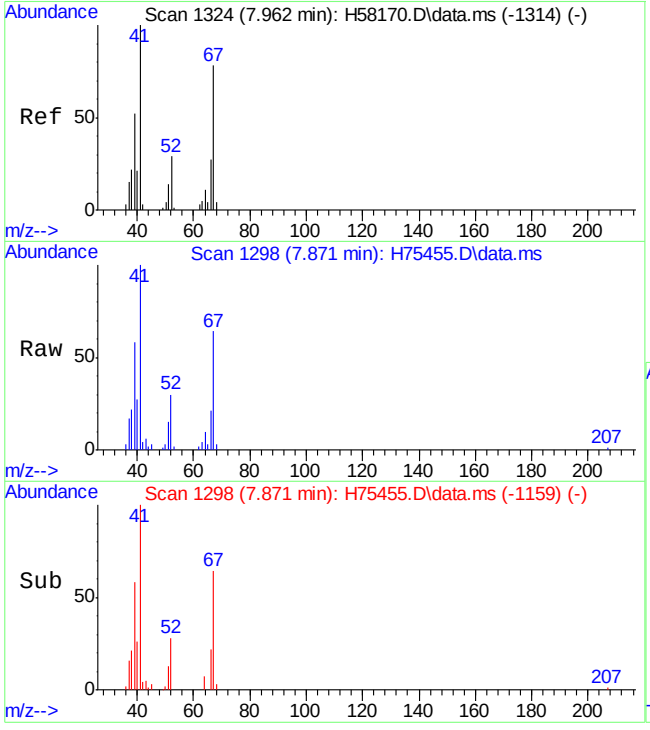


#28
di-isopropyl ether
Concen: 62.39 ug/L
RT: 7.761 min Scan# 1267
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 45 Resp: 308495

Ion	Ratio	Lower	Upper
45	100		
43	62.9	39.0	99.0
87	21.6	2.5	62.5

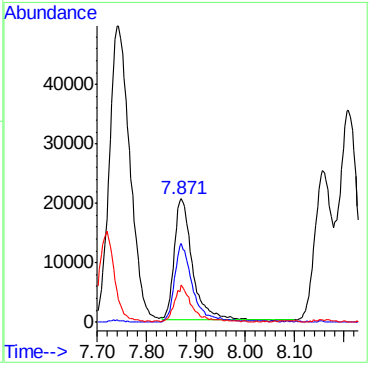




#29
methacrylonitrile
Concen: 55.14 ug/L
RT: 7.871 min Scan# 1298
Delta R.T. -0.010 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

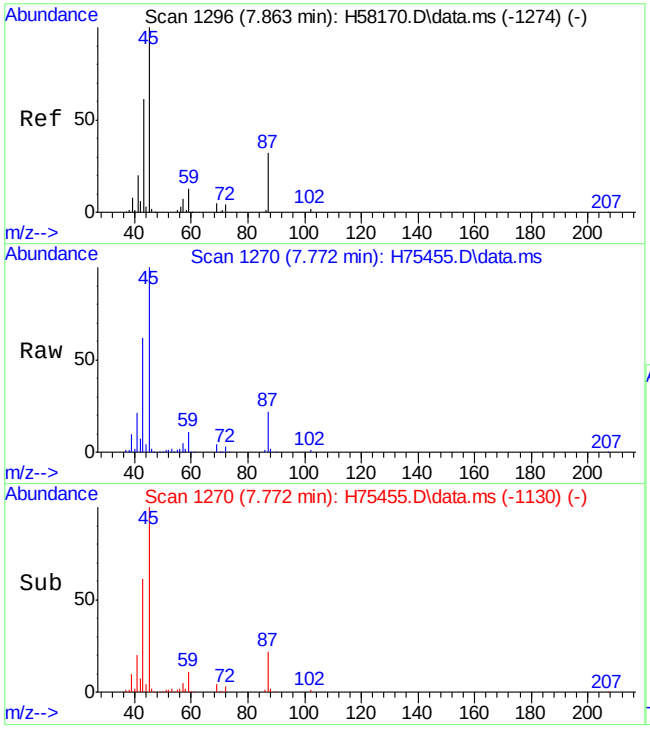
Tgt Ion: 41 Resp: 52403

Ion	Ratio	Lower	Upper
41	100		
67	64.7	28.1	88.1
52	29.6	0.0	59.4



7.4.1

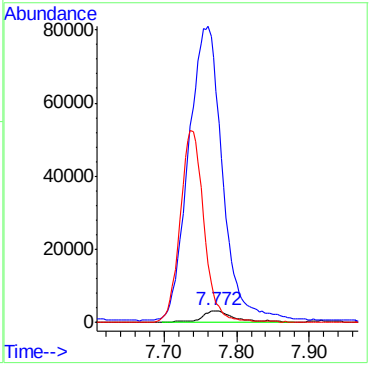
7

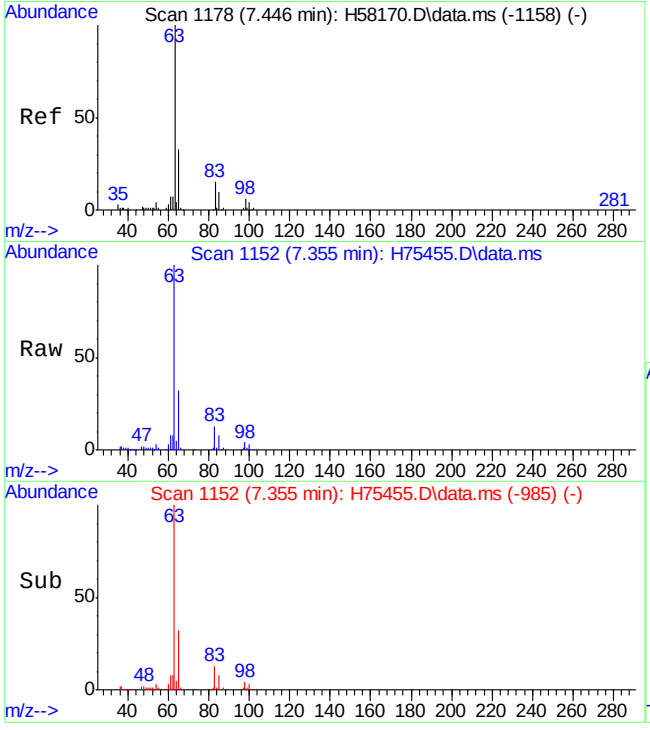


#30
2-butanone
Concen: 57.45 ug/L
RT: 7.772 min Scan# 1270
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 72 Resp: 9662

Ion	Ratio	Lower	Upper
72	100		
43	1998.8	1755.5	1815.5#
57	172.1	164.5	224.5

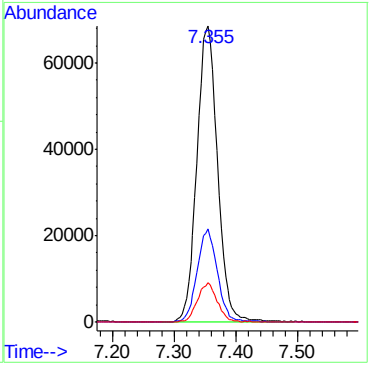




#31
1,1-dichloroethane
Concen: 57.57 ug/L
RT: 7.355 min Scan# 1152
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

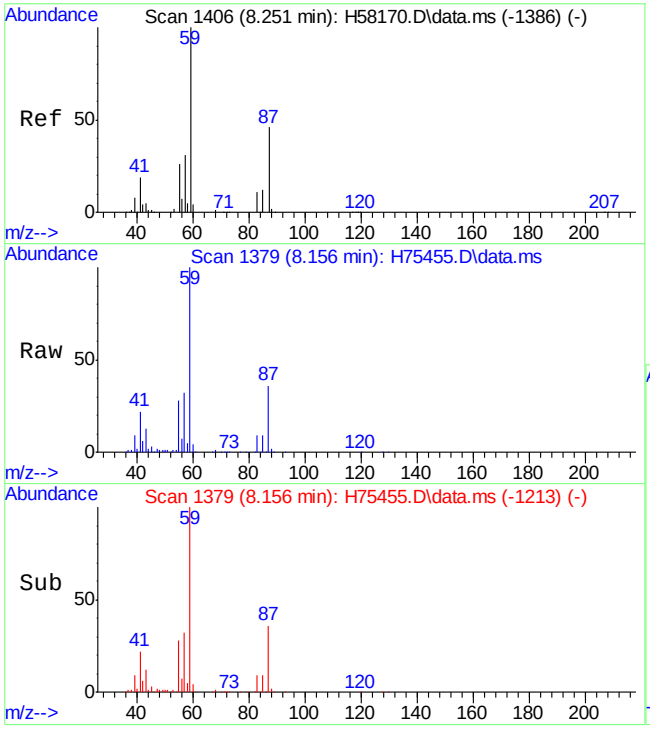
Tgt Ion: 63 Resp: 158089

Ion	Ratio	Lower	Upper
63	100		
65	31.6	2.1	62.1
83	13.1	0.0	47.3



7.4.1

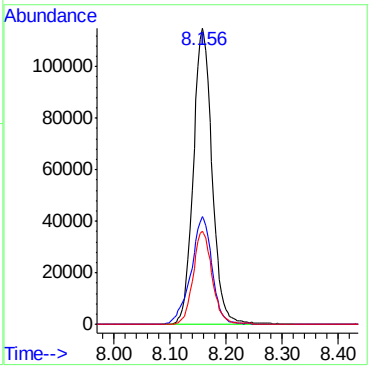
7

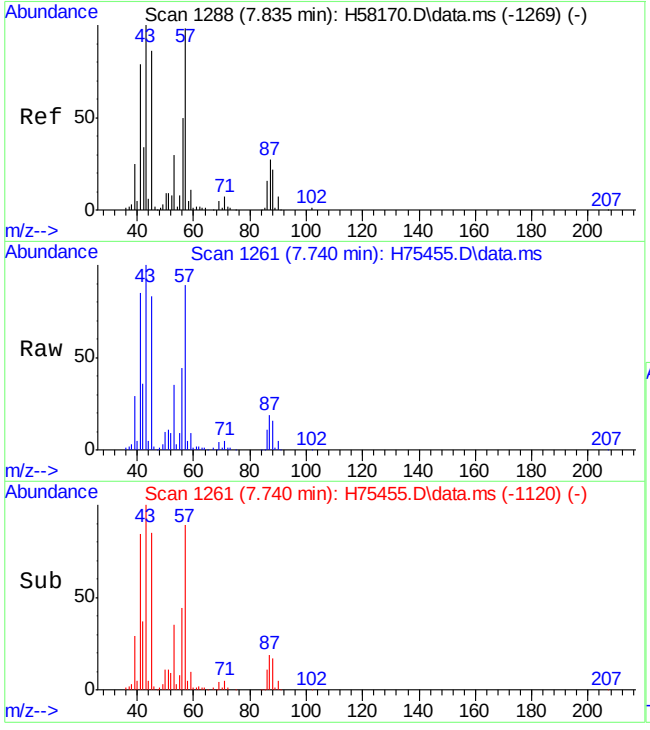


#32
tert-butyl ethyl ether
Concen: 58.31 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 59 Resp: 268149

Ion	Ratio	Lower	Upper
59	100		
87	36.4	13.5	73.5
57	31.5	0.0	58.1

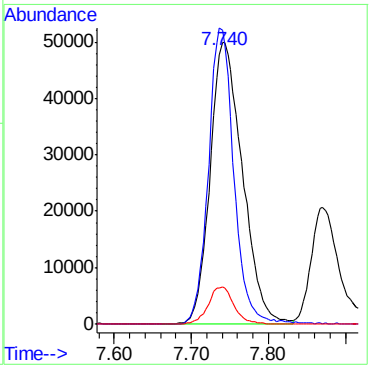


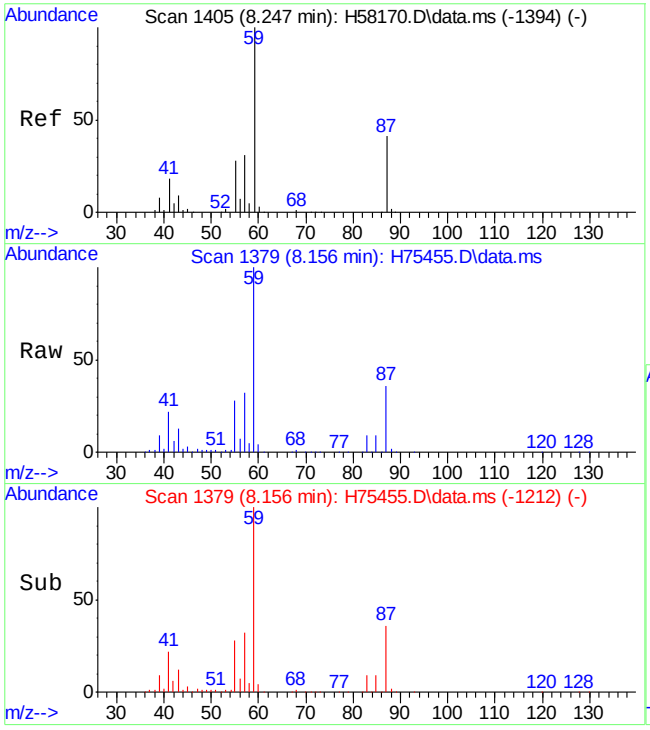


#33
Hexane
Concen: 57.55 ug/L
RT: 7.740 min Scan# 1261
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 41 Resp: 145210

Ion	Ratio	Lower	Upper
41	100		
57	83.0	60.5	90.7
86	10.3	10.4	15.6#

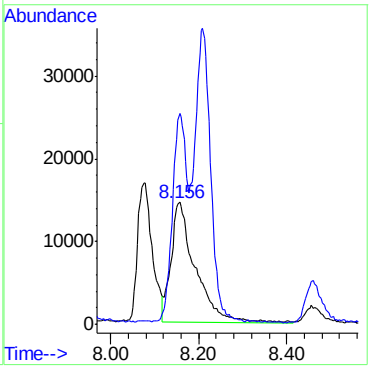


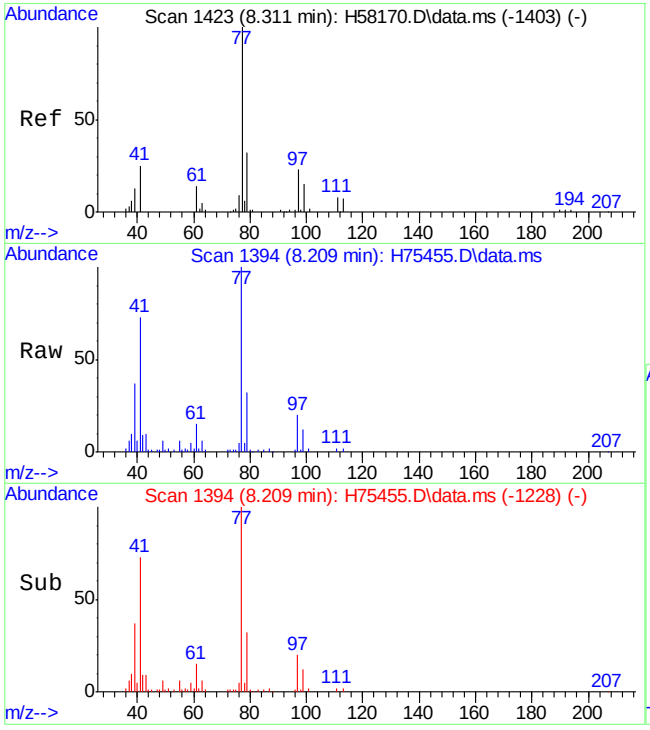


#34
isobutyl alcohol
Concen: 471.01 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 43 Resp: 55413

Ion	Ratio	Lower	Upper
43	100		
41	174.6	115.6	175.6

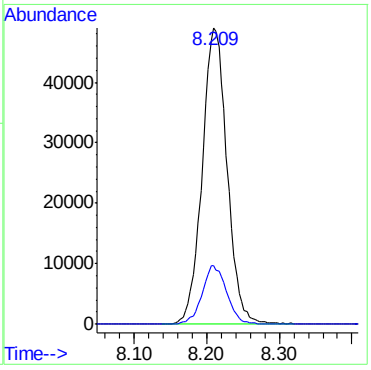


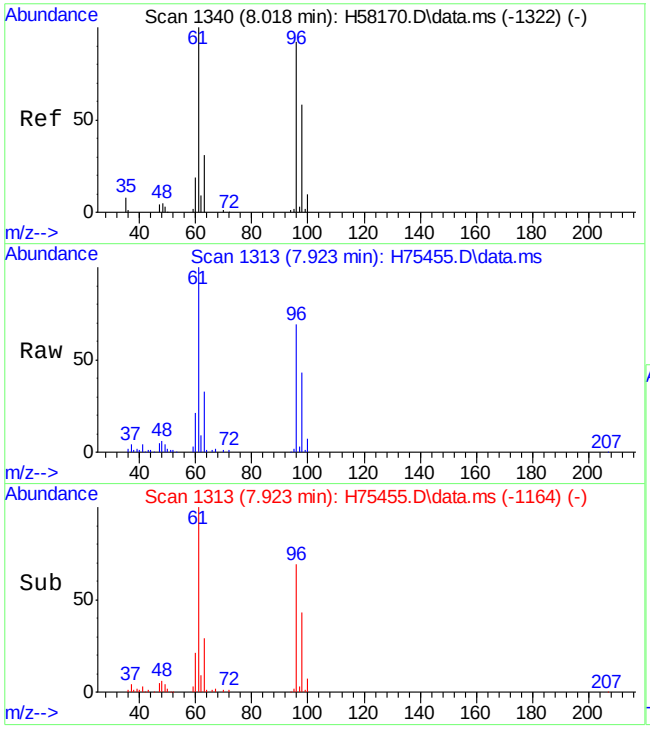


#35
2,2-dichloropropane
Concen: 57.61 ug/L
RT: 8.209 min Scan# 1394
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 77 Resp: 116418

Ion	Ratio	Lower	Upper
77	100		
97	19.6	0.0	51.6

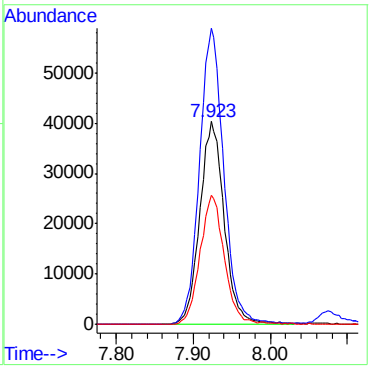


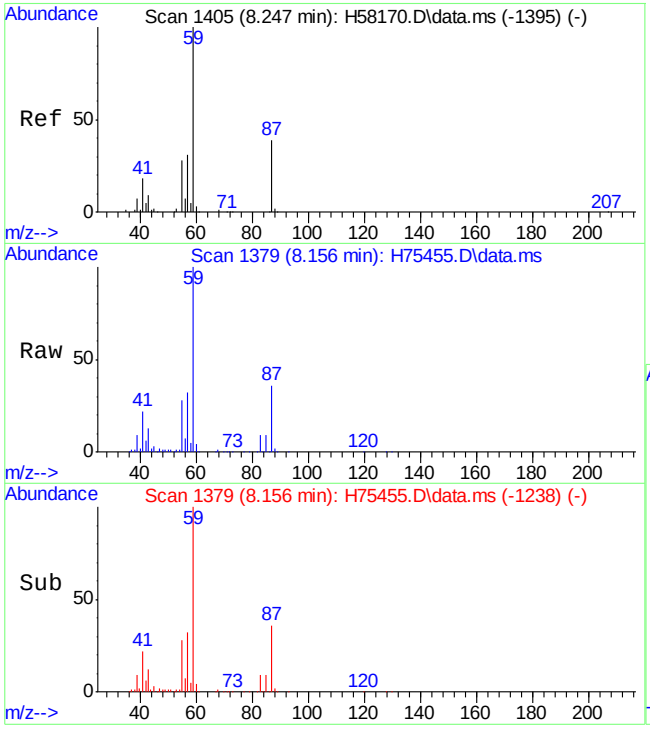


#36
cis-1,2-dichloroethene
Concen: 59.94 ug/L
RT: 7.923 min Scan# 1313
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 96 Resp: 88467

Ion	Ratio	Lower	Upper
96	100		
61	145.9	90.6	150.6
98	63.4	35.0	95.0

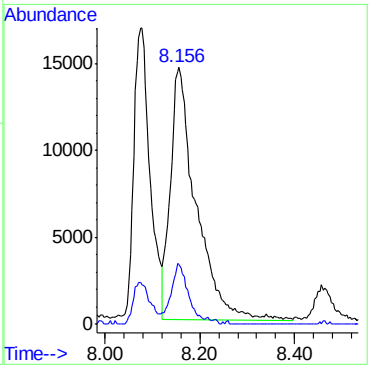


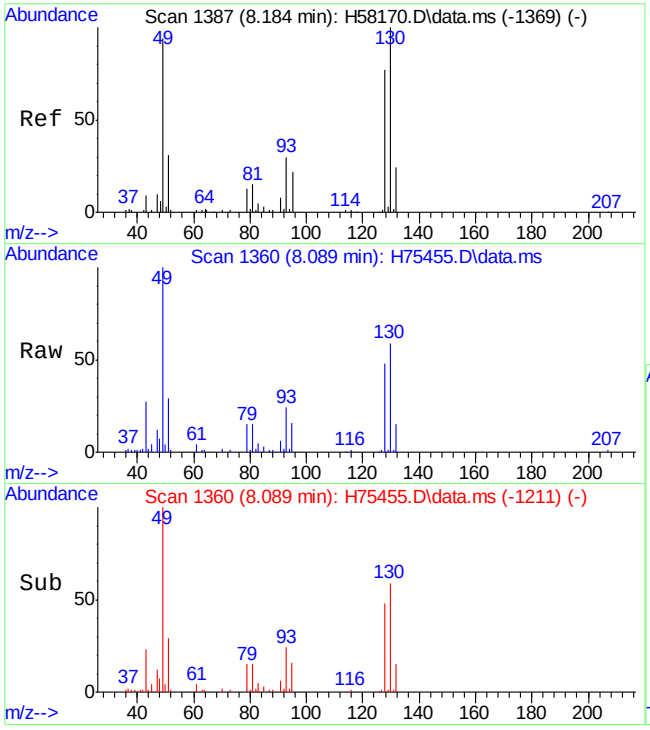


#37
ethyl acetate
Concen: 91.89 ug/L
RT: 8.156 min Scan# 1379
Delta R.T. -0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 43 Resp: 54432

Ion	Ratio	Lower	Upper
43	100		
45	23.7	0.0	51.5

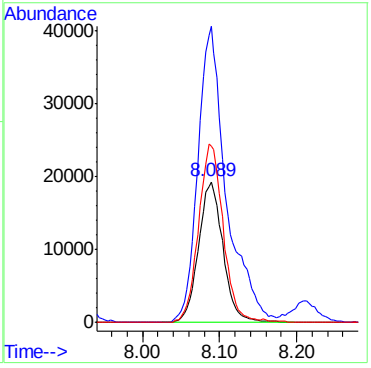


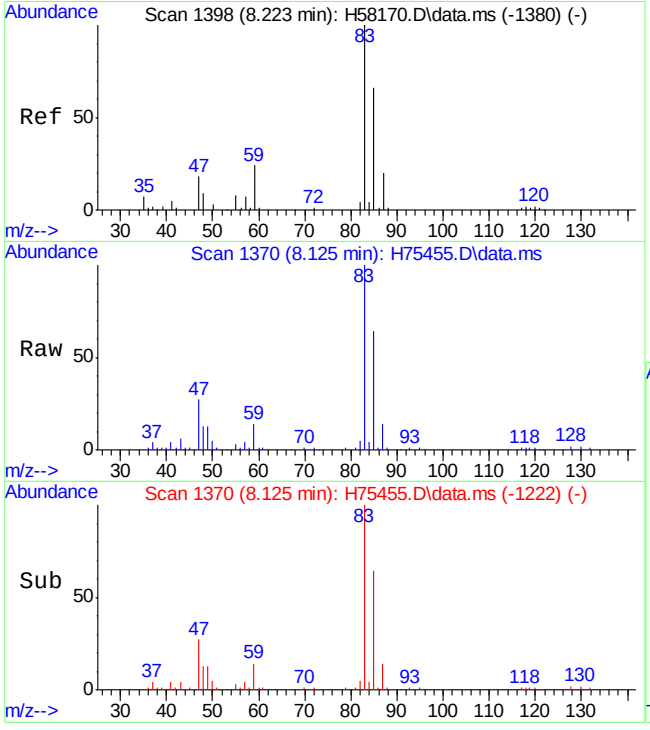


#38
bromochloromethane
Concen: 59.00 ug/L
RT: 8.089 min Scan# 1360
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:128 Resp: 42485

Ion	Ratio	Lower	Upper
128	100		
49	210.3	72.6	132.6#
130	124.8	102.2	162.2

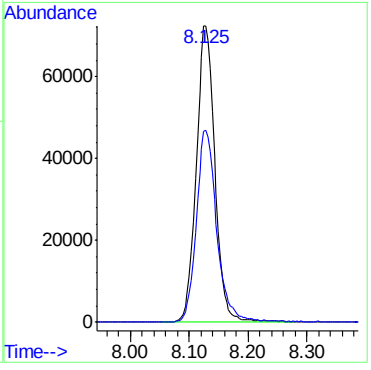


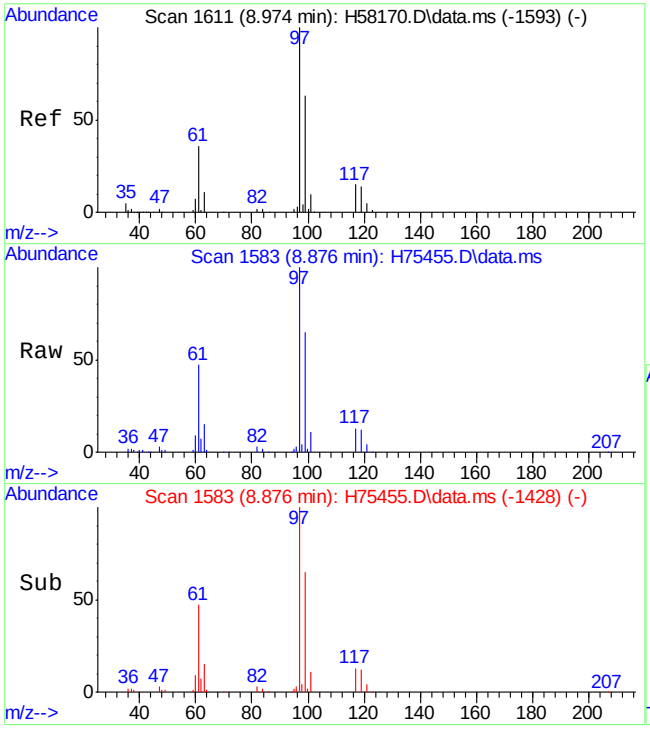


#39
chloroform
Concen: 59.87 ug/L
RT: 8.125 min Scan# 1370
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 83 Resp: 158011

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.0	95.0

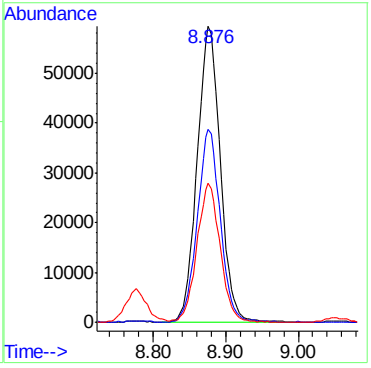


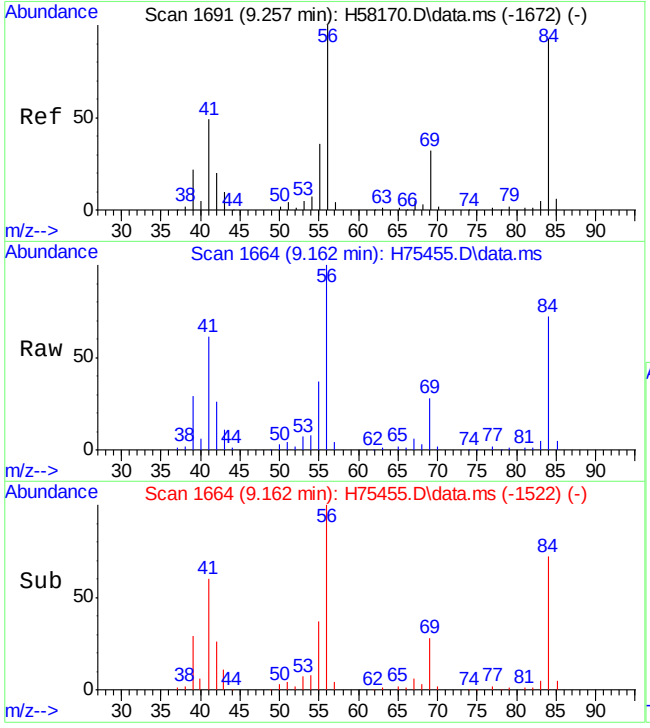


#41
1,1,1-trichloroethane
Concen: 62.75 ug/L
RT: 8.876 min Scan# 1583
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 97 Resp: 131813

Ion	Ratio	Lower	Upper
97	100		
99	65.2	32.9	92.9
61	47.1	5.4	65.4

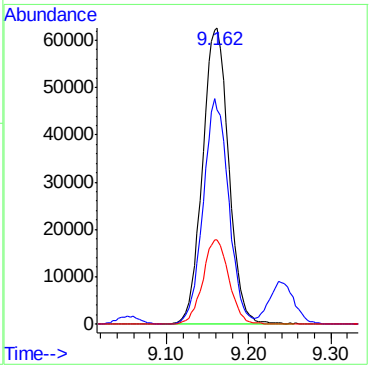


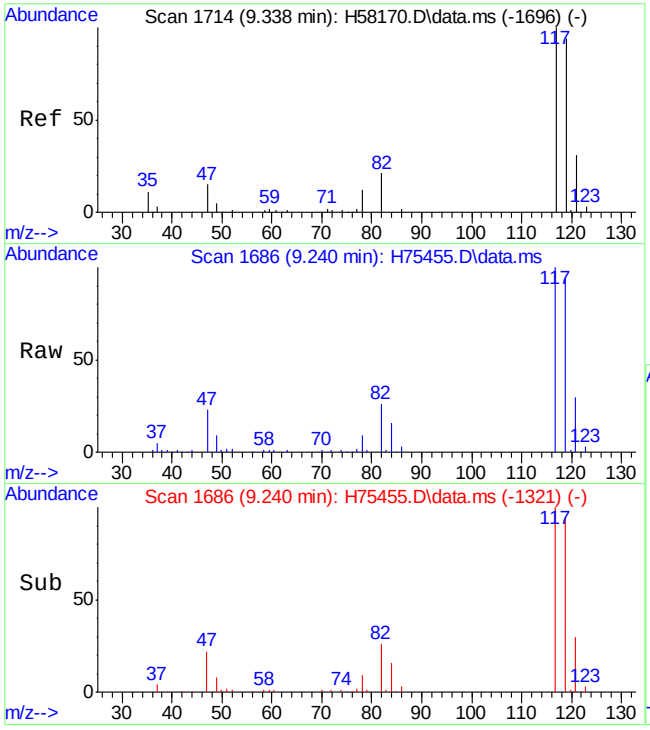


#43
cyclohexane
Concen: 51.63 ug/L
RT: 9.162 min Scan# 1664
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 56 Resp: 138916

Ion	Ratio	Lower	Upper
56	100		
84	72.4	81.1	121.1#
69	28.3	13.4	53.4

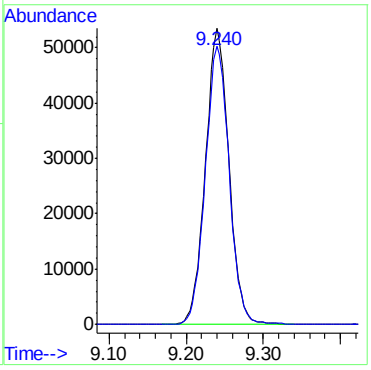


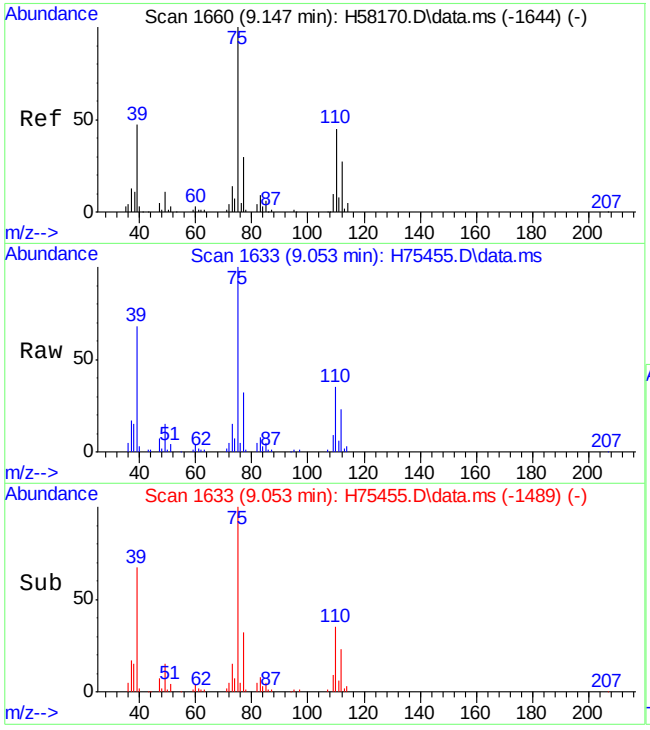


#44
carbon tetrachloride
Concen: 63.44 ug/L
RT: 9.240 min Scan# 1686
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:117 Resp: 112853

Ion	Ratio	Lower	Upper
117	100		
119	94.1	69.0	129.0

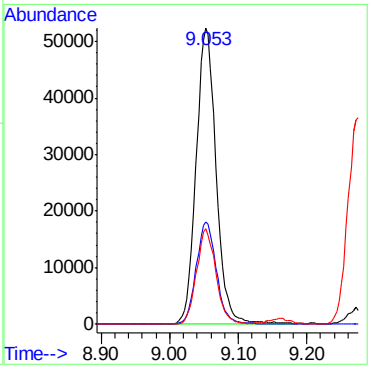


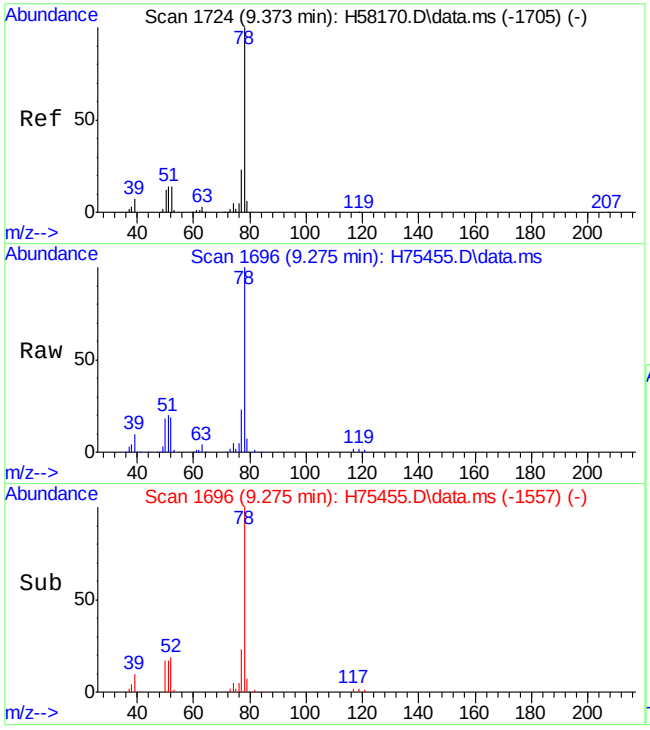


#45
1,1-dichloropropene
Concen: 53.92 ug/L
RT: 9.053 min Scan# 1633
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 75 Resp: 105787

Ion	Ratio	Lower	Upper
75	100		
110	34.6	12.6	72.6
77	32.2	1.8	61.8

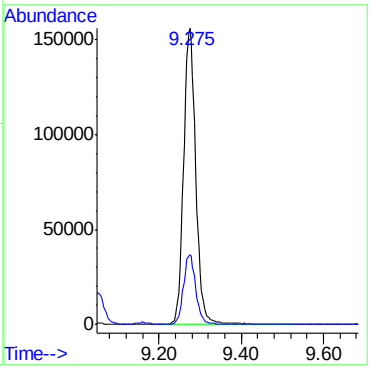


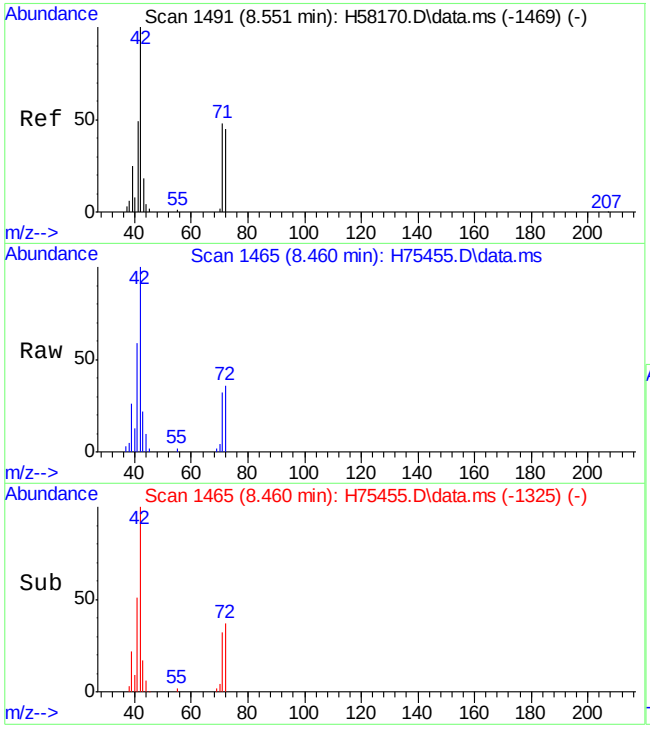


#46
benzene
Concen: 55.63 ug/L
RT: 9.275 min Scan# 1696
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 78 Resp: 321169

Ion	Ratio	Lower	Upper
78	100		
77	23.3	0.0	53.5

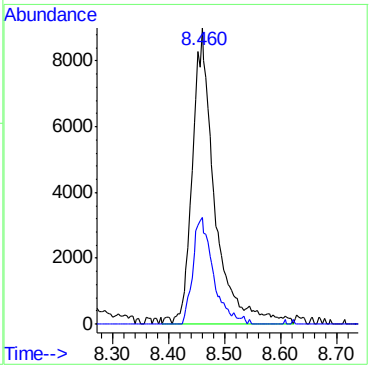


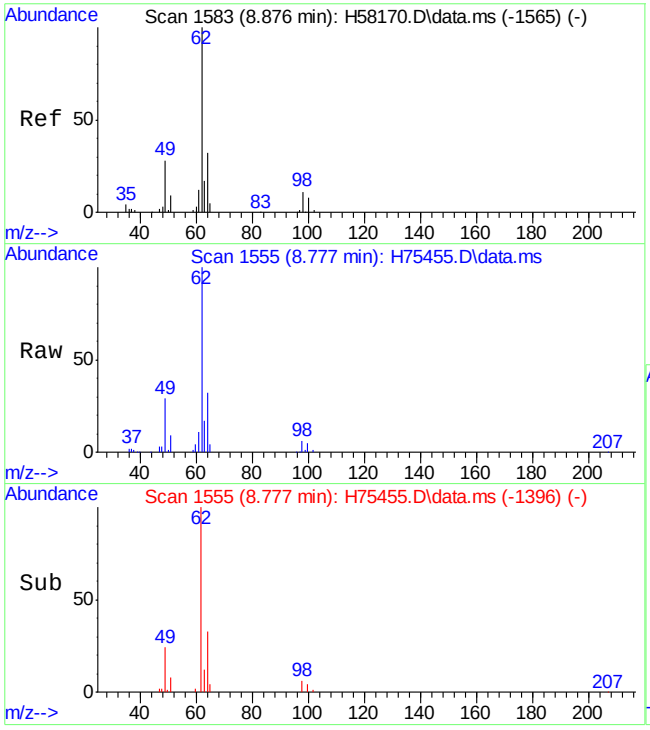


#47
tetrahydrofuran
Concen: 52.10 ug/L
RT: 8.460 min Scan# 1465
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 42 Resp: 25046

Ion	Ratio	Lower	Upper
42	100		
72	36.1	12.6	72.6

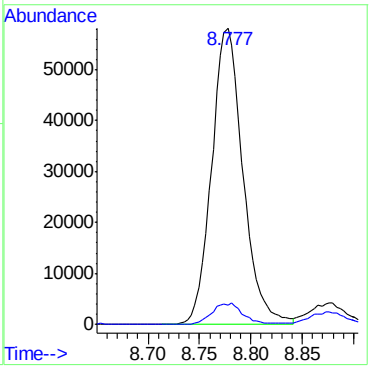


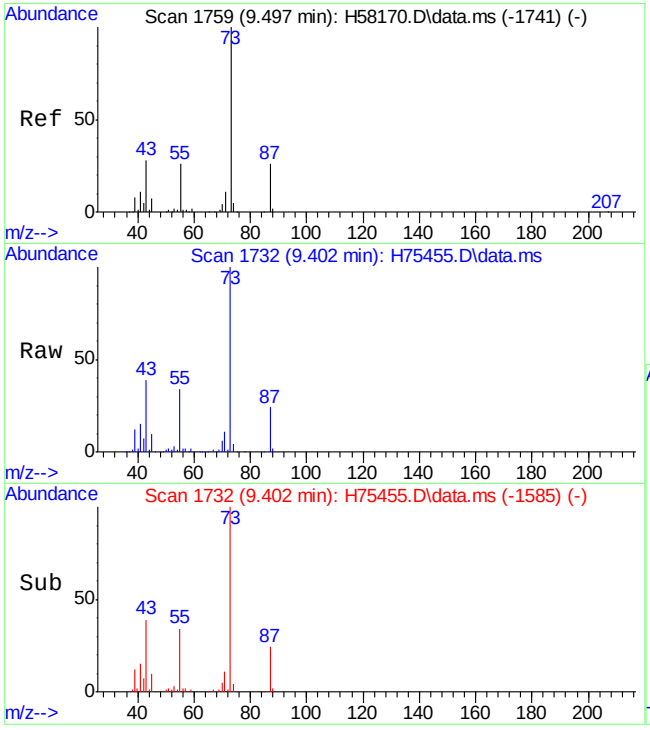


#48
1,2-dichloroethane
Concen: 57.30 ug/L
RT: 8.777 min Scan# 1555
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 62 Resp: 123405

Ion	Ratio	Lower	Upper
62	100		
98	6.3	0.0	37.4

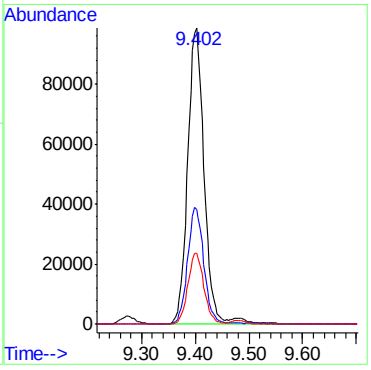




#49
tert-amyl methyl ether
Concen: 54.24 ug/L
RT: 9.402 min Scan# 1732
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

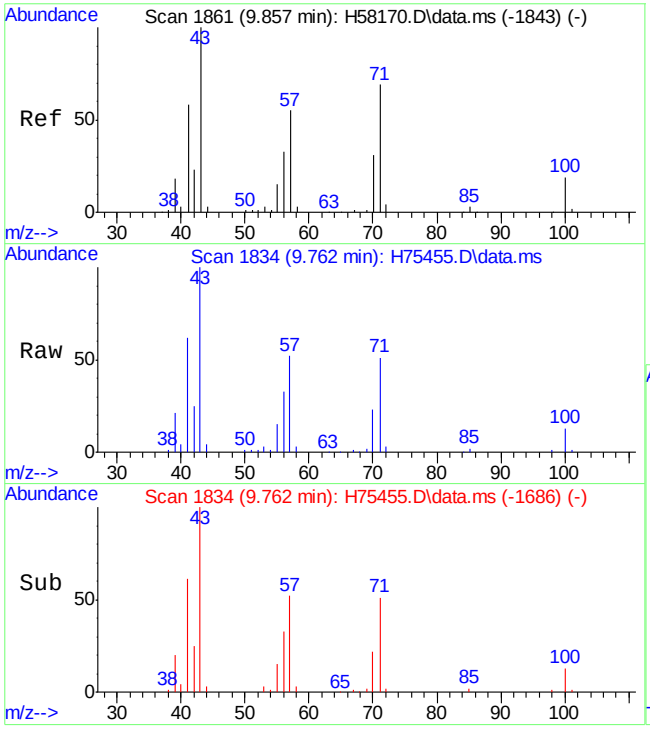
Tgt Ion: 73 Resp: 212834

Ion	Ratio	Lower	Upper
73	100		
43	38.7	3.8	63.8
87	23.9	0.0	59.9



7.4.1

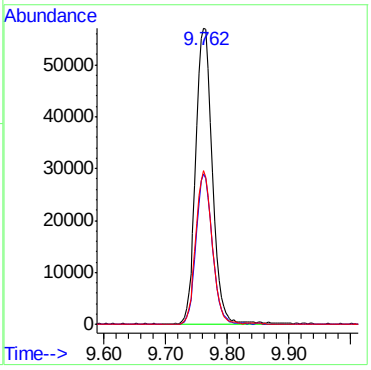
7

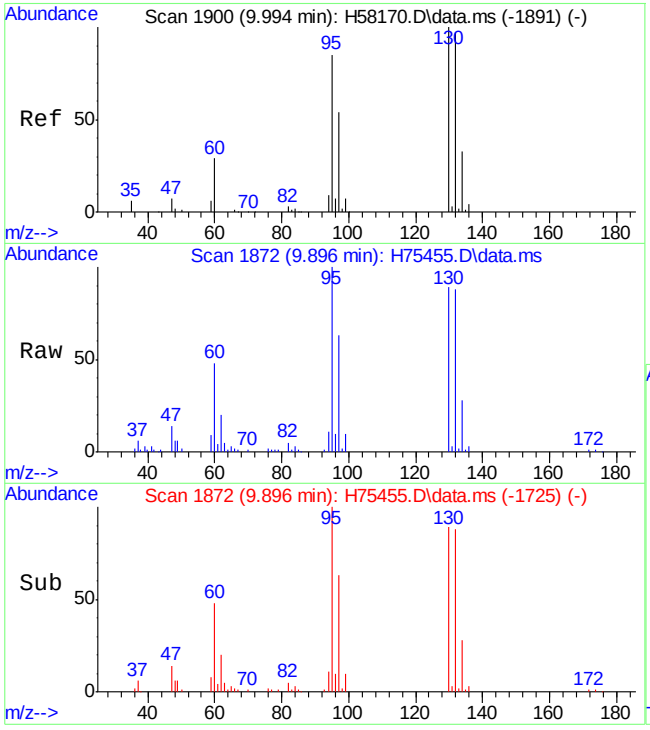


#50
heptane
Concen: 52.47 ug/L
RT: 9.762 min Scan# 1834
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 43 Resp: 106617

Ion	Ratio	Lower	Upper
43	100		
71	50.6	31.4	91.4
57	52.0	21.5	81.5

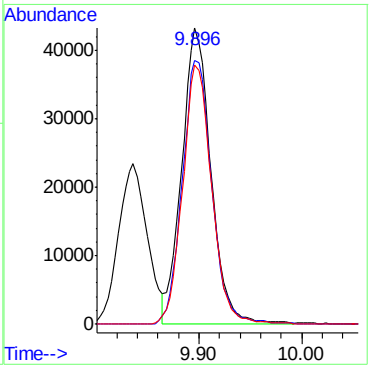




#51
trichloroethene
Concen: 56.19 ug/L
RT: 9.896 min Scan# 1872
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

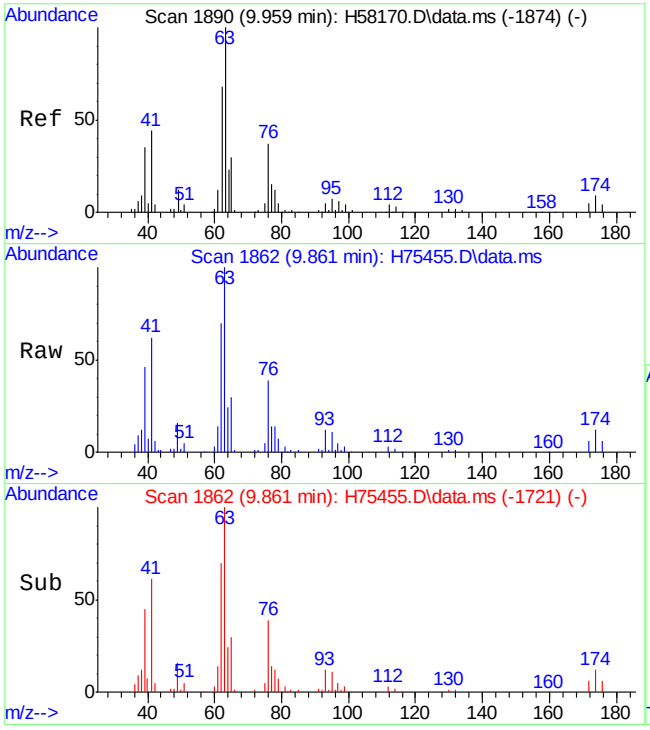
Tgt Ion: 95 Resp: 85000

Ion	Ratio	Lower	Upper
95	100		
130	88.5	83.0	143.0
132	87.6	82.2	142.2



7.4.1

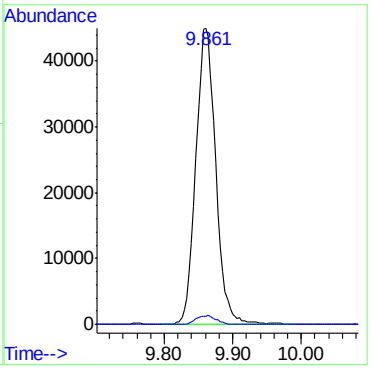
7

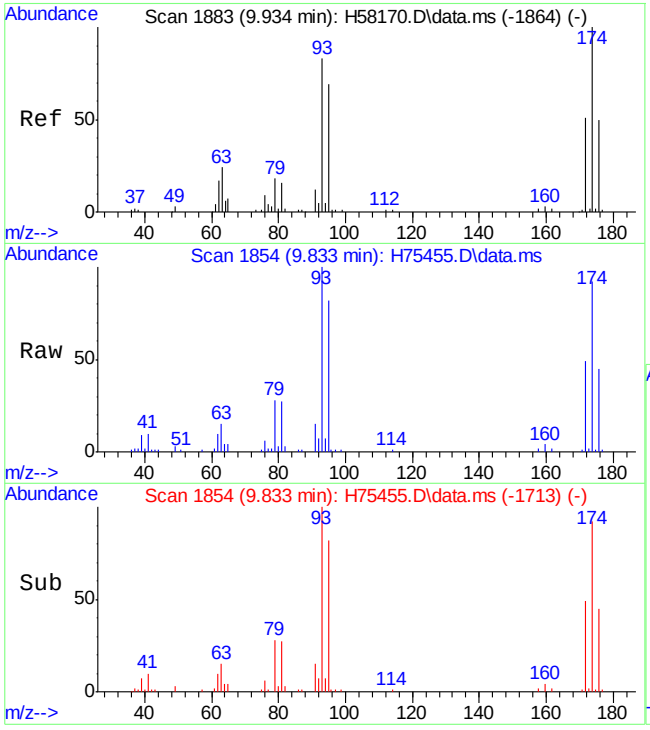


#52
1,2-dichloropropane
Concen: 56.46 ug/L
RT: 9.861 min Scan# 1862
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 63 Resp: 90522

Ion	Ratio	Lower	Upper
63	100		
112	2.6	0.0	34.6

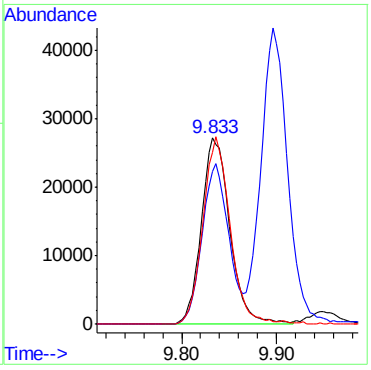




#53
dibromomethane
Concen: 58.56 ug/L
RT: 9.833 min Scan# 1854
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

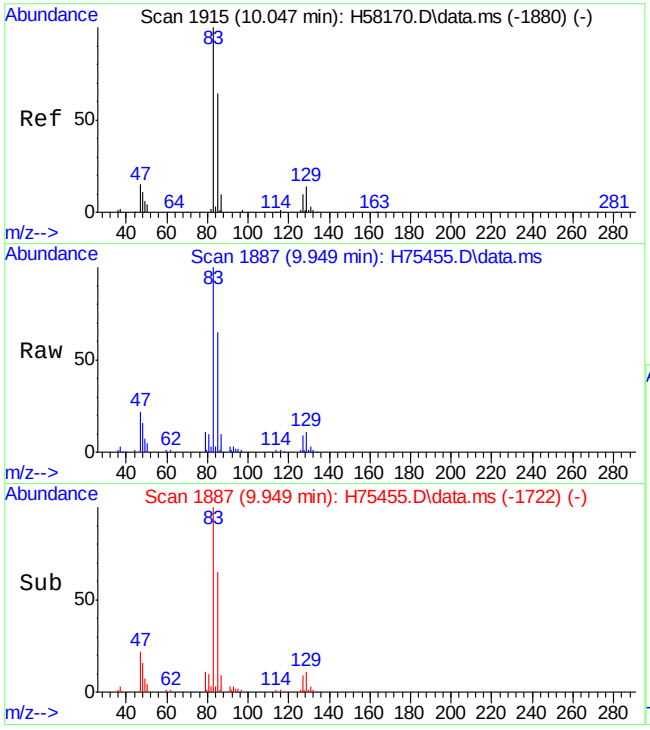
Tgt Ion: 93 Resp: 56297

Ion	Ratio	Lower	Upper
93	100		
95	82.0	52.2	112.2
174	92.3	76.7	136.7



7.4.1

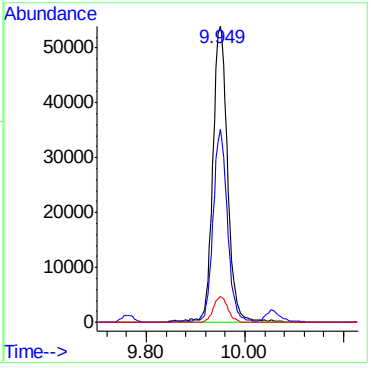
7

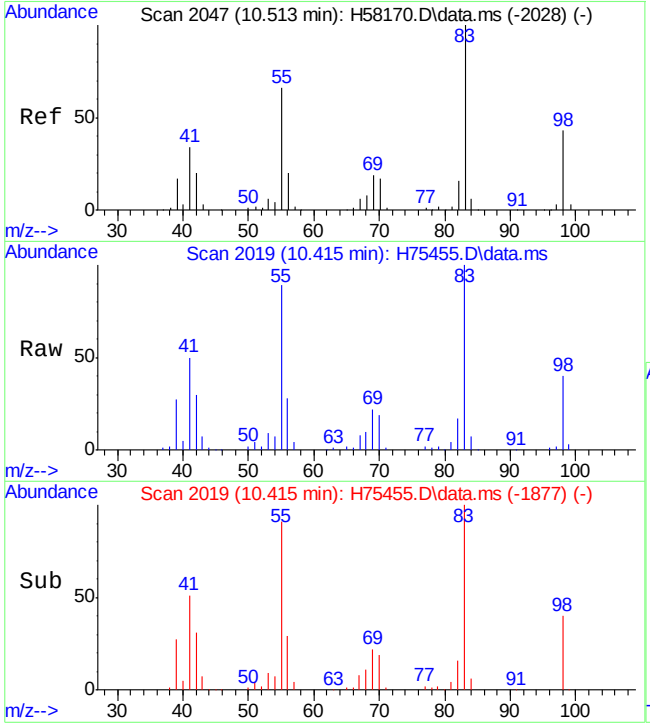


#54
bromodichloromethane
Concen: 58.18 ug/L
RT: 9.949 min Scan# 1887
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 83 Resp: 111965

Ion	Ratio	Lower	Upper
83	100		
85	65.0	36.5	96.5
127	8.9	0.0	42.2

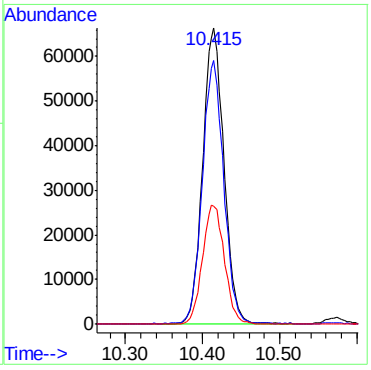




#55
methylcyclohexane
Concen: 51.71 ug/L
RT: 10.415 min Scan# 2019
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

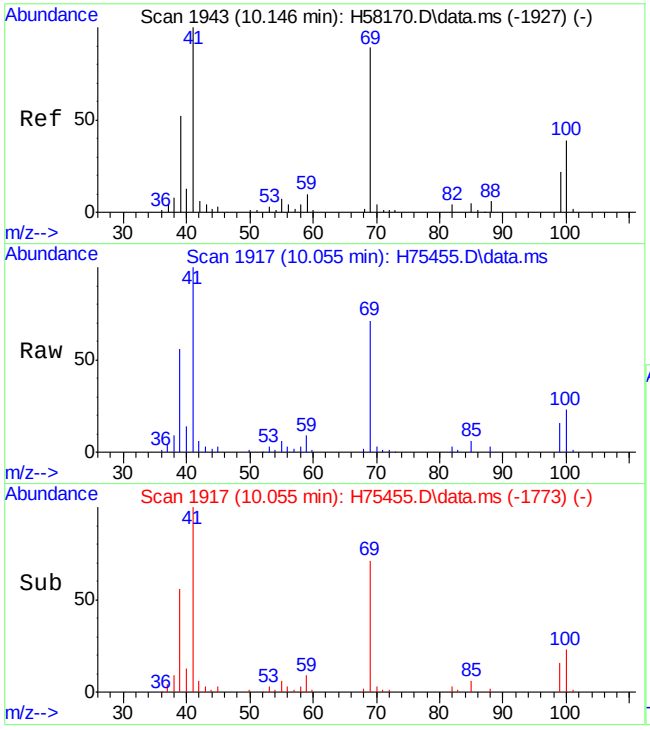
Tgt Ion: 83 Resp: 127042

Ion	Ratio	Lower	Upper
83	100		
55	88.9	51.1	91.1
98	39.7	25.6	65.6



7.4.1

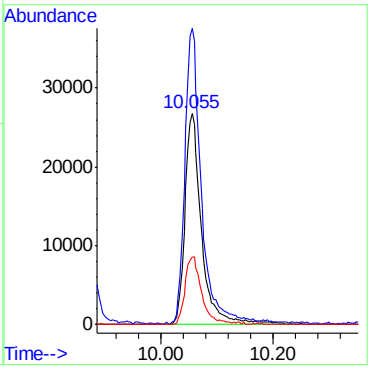
7

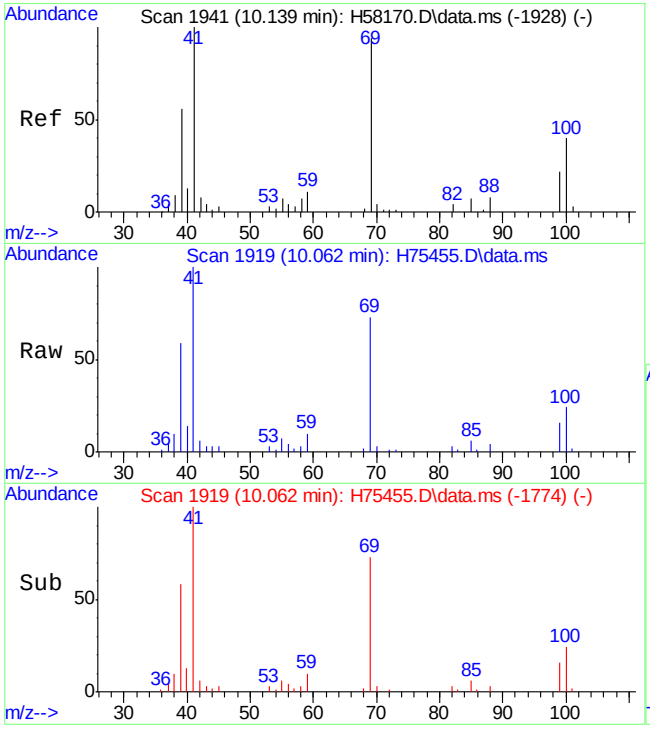


#57
methyl methacrylate
Concen: 54.00 ug/L
RT: 10.055 min Scan# 1917
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 69 Resp: 54196

Ion	Ratio	Lower	Upper
69	100		
41	140.2	108.1	168.1
100	31.9	21.1	81.1

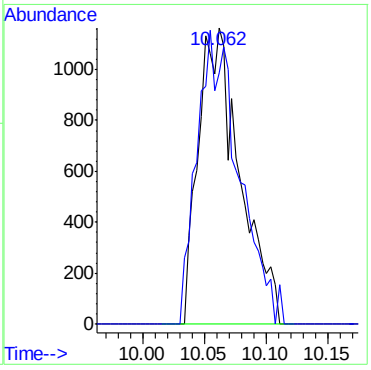




#58
1,4-dioxane
Concen: 203.22 ug/L
RT: 10.062 min Scan# 1919
Delta R.T. 0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

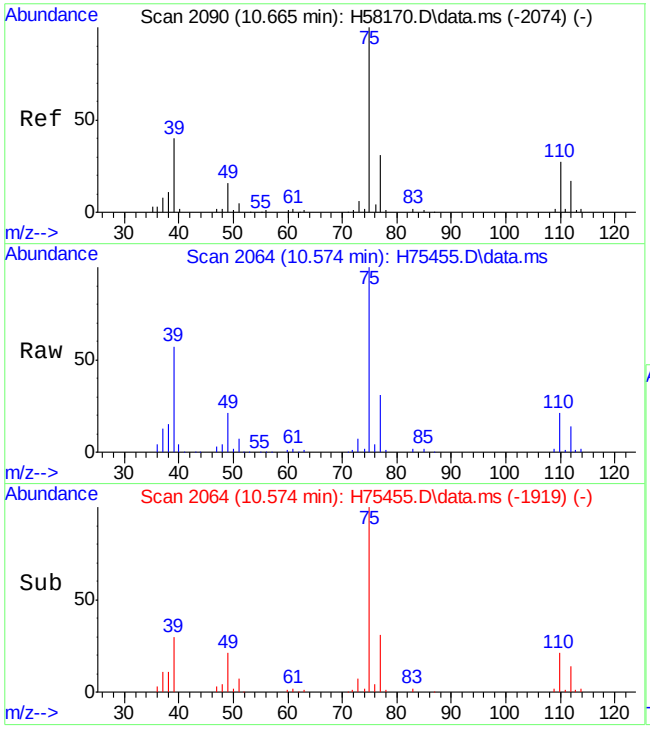
Tgt Ion: 88 Resp: 2720

Ion	Ratio	Lower	Upper
88	100		
58	85.0	60.1	120.1



7.4.1

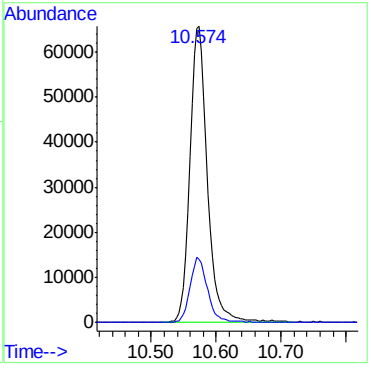
7

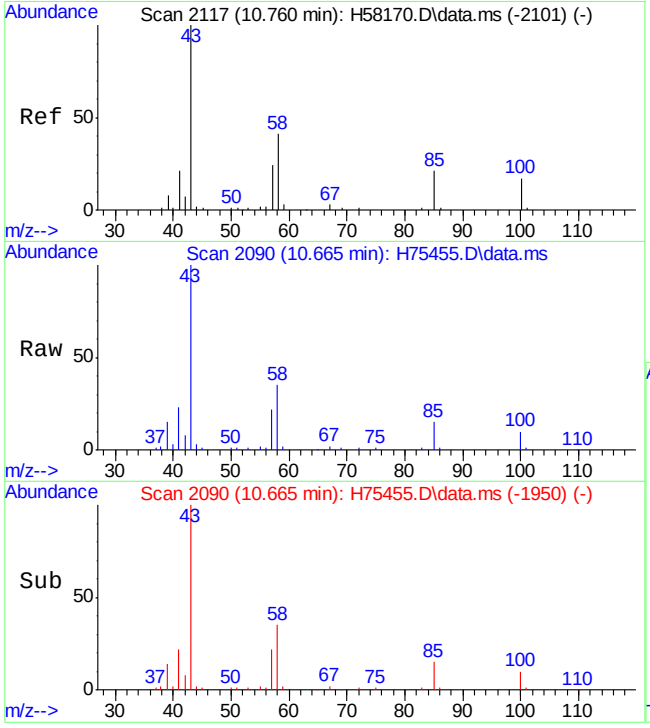


#59
cis-1,3-dichloropropene
Concen: 58.10 ug/L
RT: 10.574 min Scan# 2064
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 75 Resp: 124823

Ion	Ratio	Lower	Upper
75	100		
110	21.4	0.0	57.6

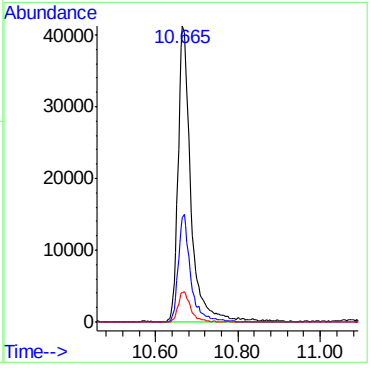


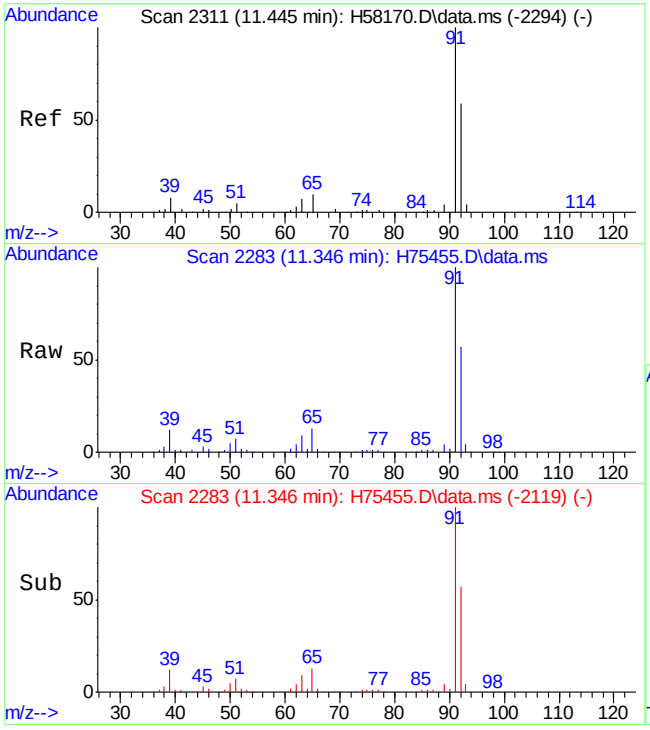


#61
4-methyl-2-pentanone
Concen: 55.50 ug/L
RT: 10.665 min Scan# 2090
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 43 Resp: 90332

Ion	Ratio	Lower	Upper
43	100		
58	34.9	8.9	68.9
100	9.9	0.0	46.9

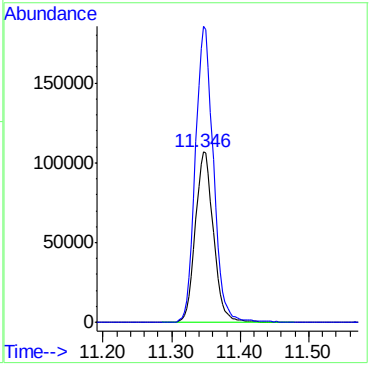


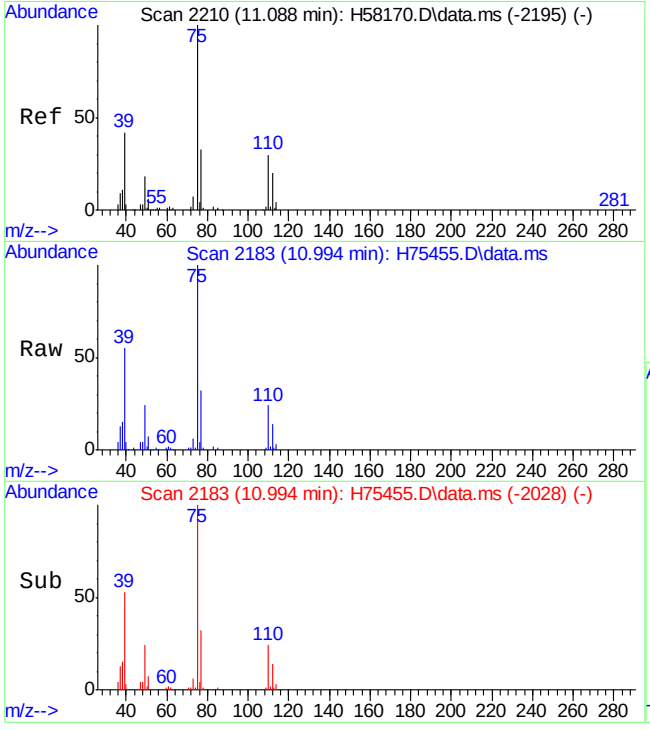


#62
toluene
Concen: 55.50 ug/L
RT: 11.346 min Scan# 2283
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 92 Resp: 195693

Ion	Ratio	Lower	Upper
92	100		
91	174.1	140.4	200.4

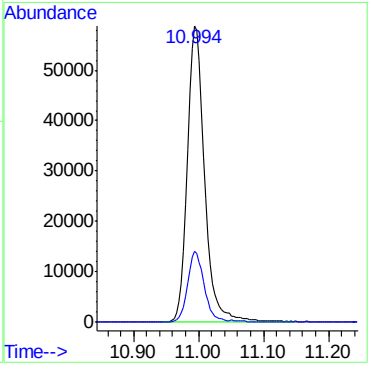


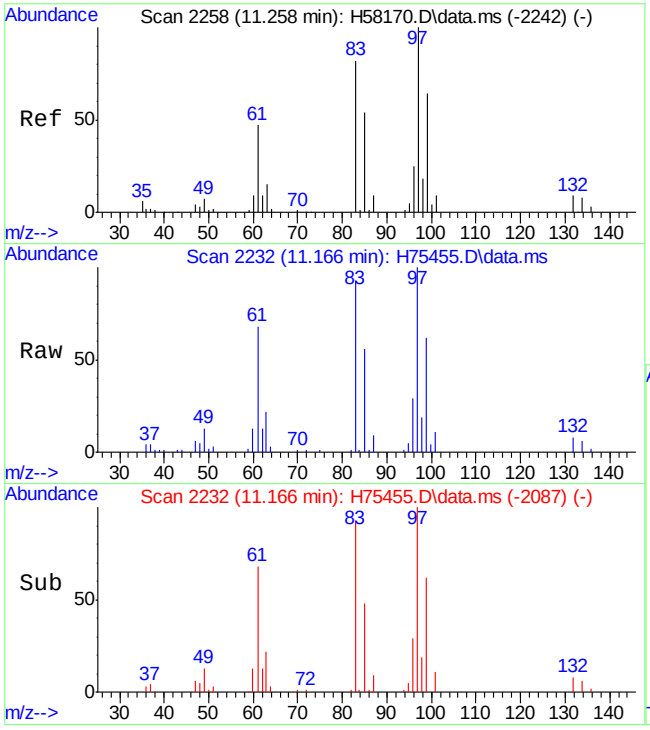


#63
trans-1,3-dichloropropene
Concen: 51.01 ug/L
RT: 10.994 min Scan# 2183
Delta R.T. -0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 75 Resp: 110864

Ion	Ratio	Lower	Upper
75	100		
110	24.0	0.0	54.2

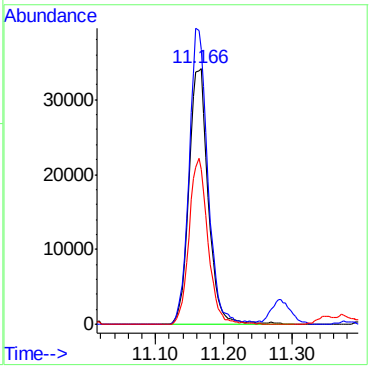


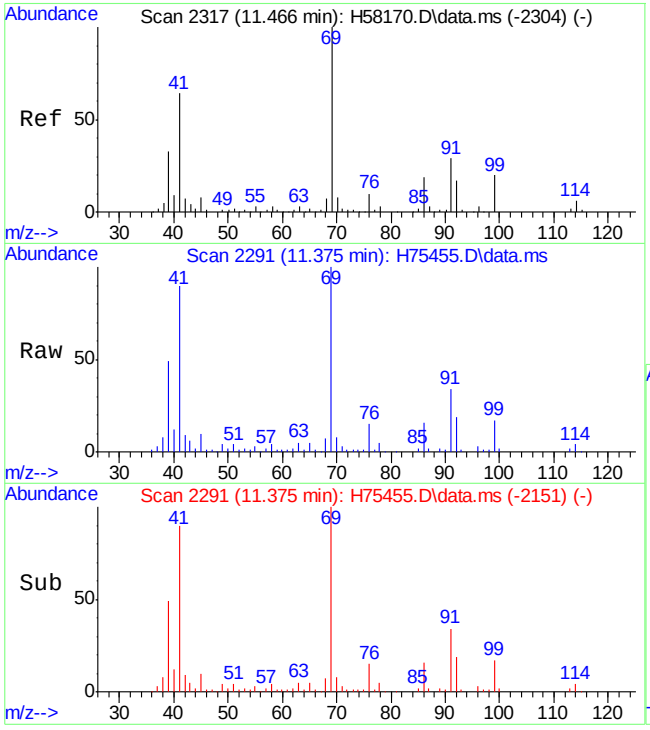


#64
1,1,2-trichloroethane
Concen: 56.97 ug/L
RT: 11.166 min Scan# 2232
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 83 Resp: 66854

Ion	Ratio	Lower	Upper
83	100		
97	107.5	98.5	158.5
85	60.6	34.7	94.7

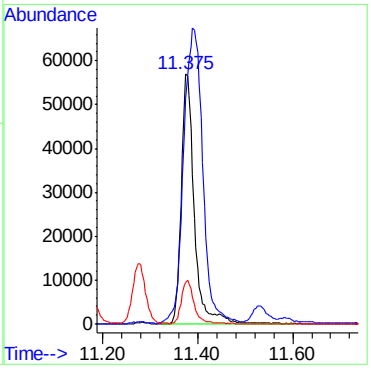


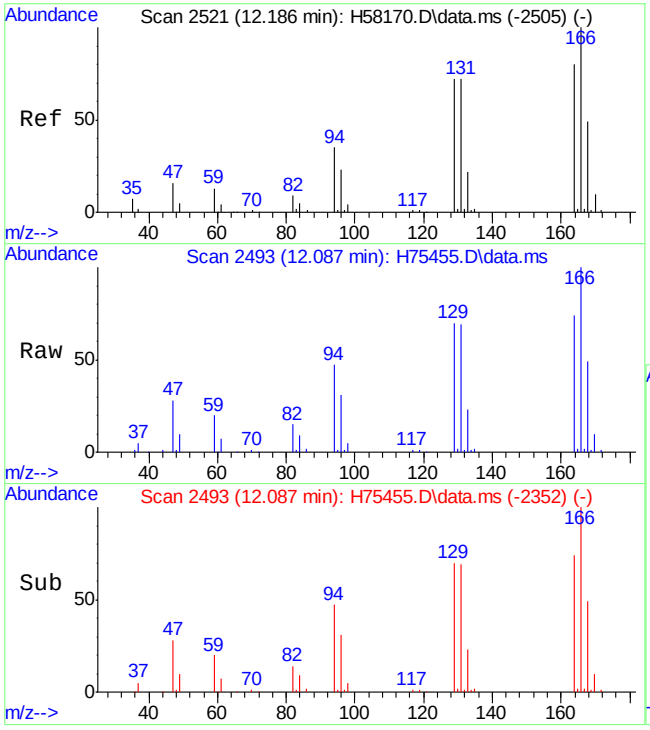


#65
ethyl methacrylate
Concen: 56.31 ug/L
RT: 11.375 min Scan# 2291
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 69 Resp: 108195

Ion	Ratio	Lower	Upper
69	100		
41	89.6	68.2	128.2
99	16.9	0.0	55.4

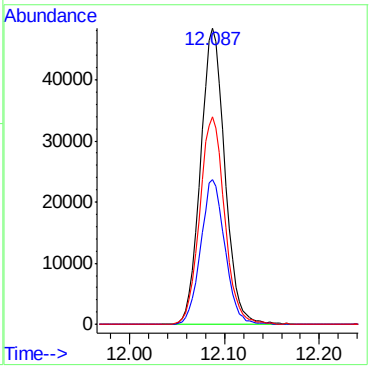


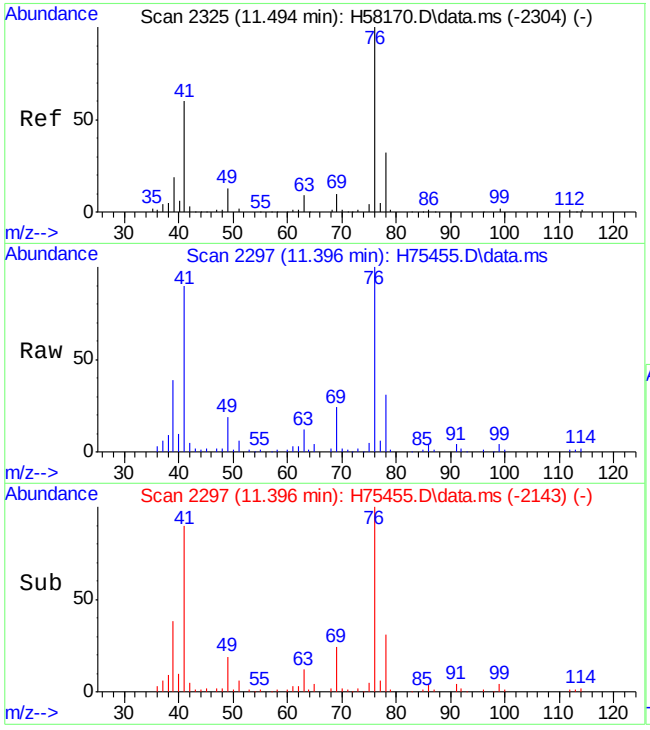


#67
tetrachloroethene
Concen: 49.73 ug/L
RT: 12.087 min Scan# 2493
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:166 Resp: 85839

Ion	Ratio	Lower	Upper
166	100		
168	48.9	17.7	77.7
129	70.2	48.9	108.9

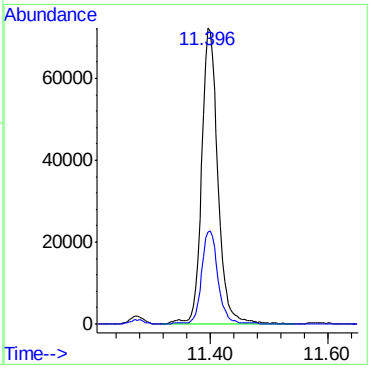


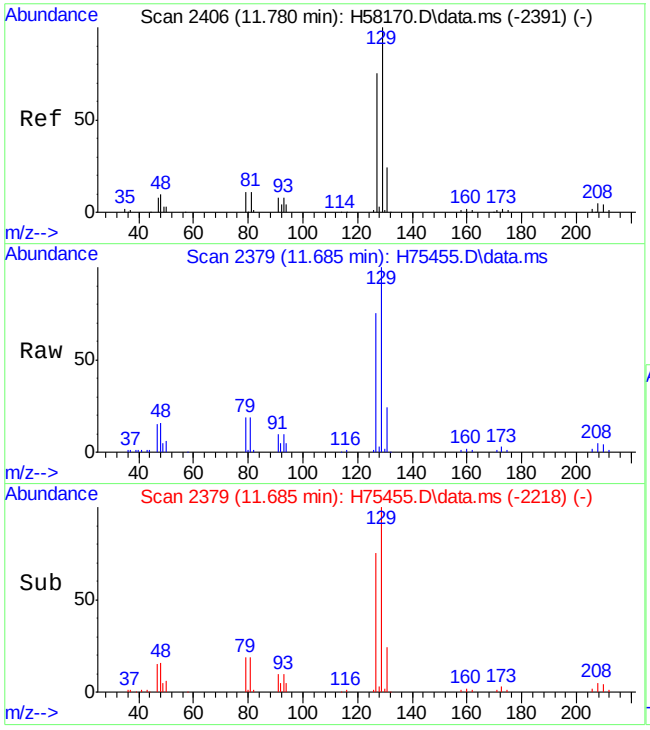


#68
1,3-dichloropropane
Concen: 53.09 ug/L
RT: 11.396 min Scan# 2297
Delta R.T. -0.006 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 76 Resp: 137631

Ion	Ratio	Lower	Upper
76	100		
78	31.1	3.4	63.4

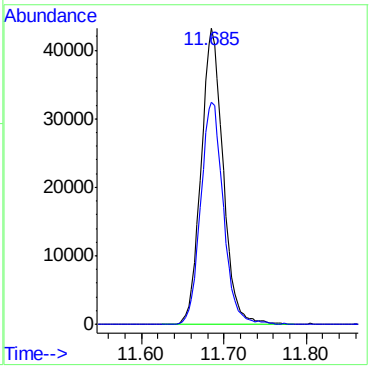


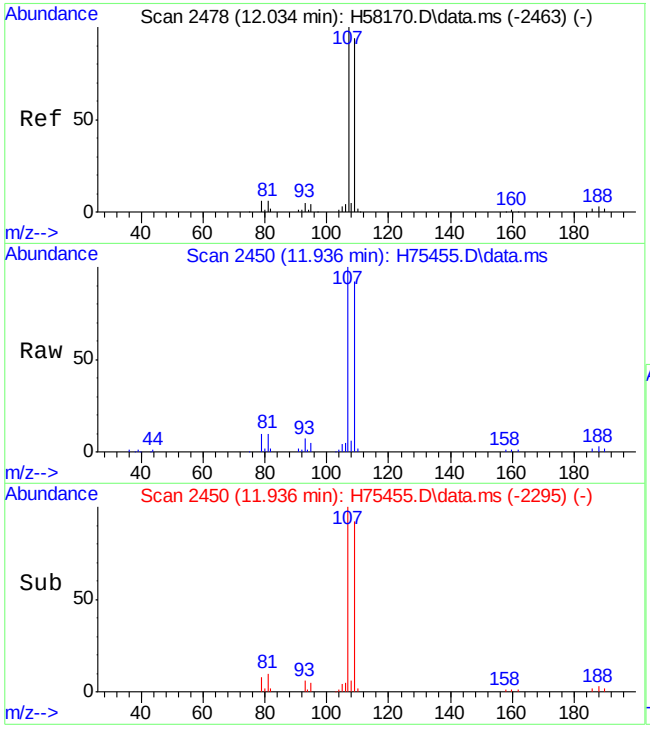


#69
dibromochloromethane
Concen: 47.20 ug/L
RT: 11.685 min Scan# 2379
Delta R.T. -0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:129 Resp: 80664

Ion	Ratio	Lower	Upper
129	100		
127	75.2	48.1	108.1

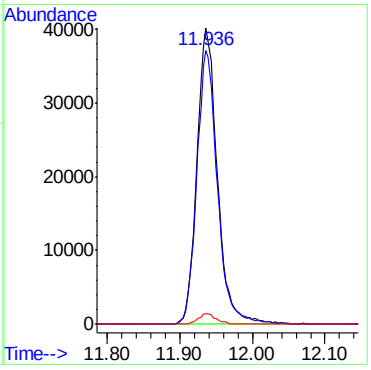


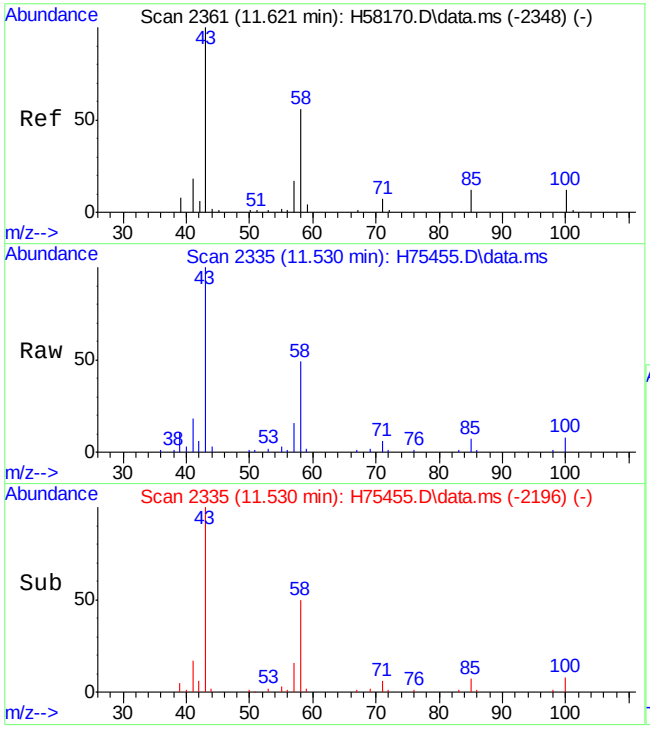


#70
1,2-dibromoethane
Concen: 51.44 ug/L
RT: 11.936 min Scan# 2450
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:107 Resp: 78538

Ion	Ratio	Lower	Upper
107	100		
109	92.3	58.7	118.7
188	3.3	0.0	33.1

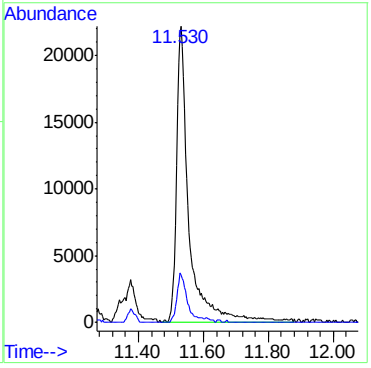


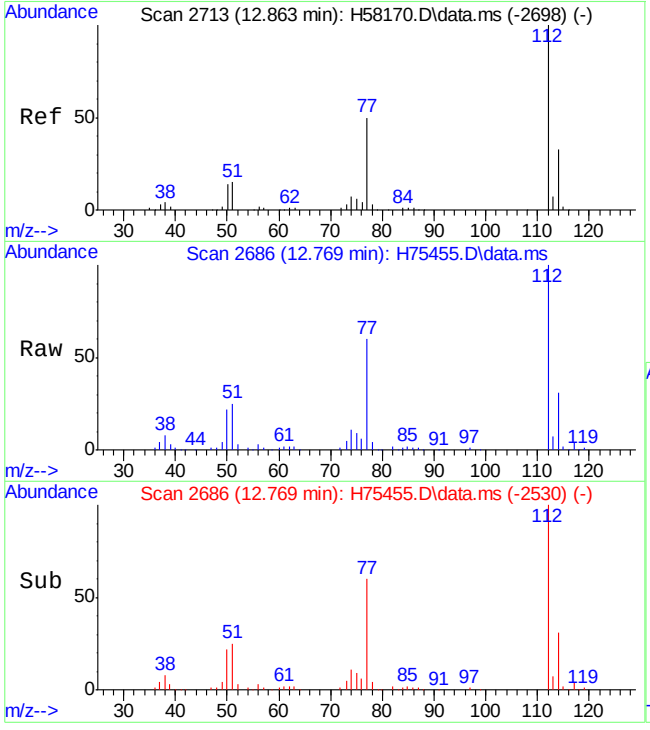


#71
2-hexanone
Concen: 47.50 ug/L
RT: 11.530 min Scan# 2335
Delta R.T. -0.010 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 43 Resp: 59515

Ion	Ratio	Lower	Upper
43	100		
57	14.9	0.0	48.4

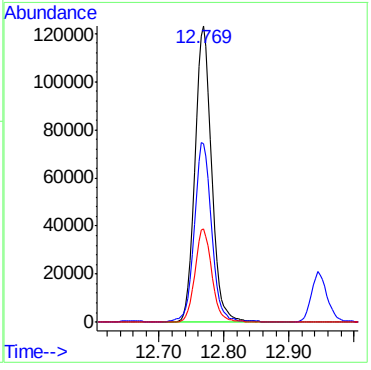




#72
chlorobenzene
Concen: 48.48 ug/L
RT: 12.769 min Scan# 2686
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:112 Resp: 222726

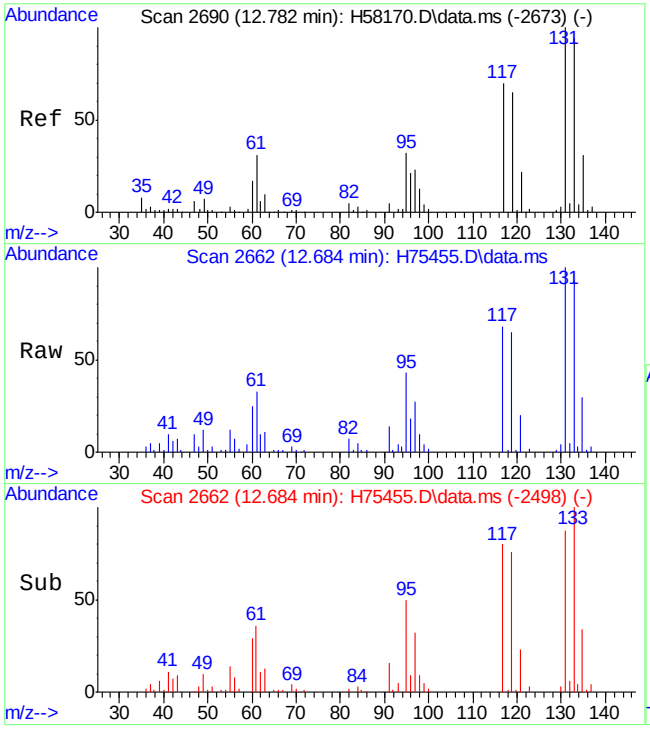
Ion	Ratio	Lower	Upper
112	100		
77	60.3	19.7	79.7
114	31.3	2.4	62.4



7.4.1

7

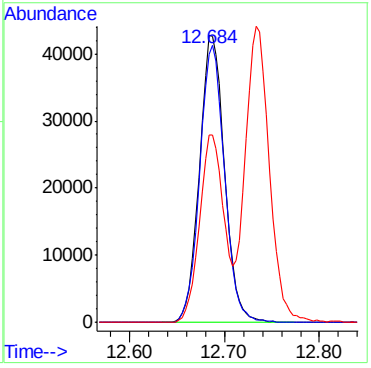
ACCUTEST LABORATORIES
MC41757

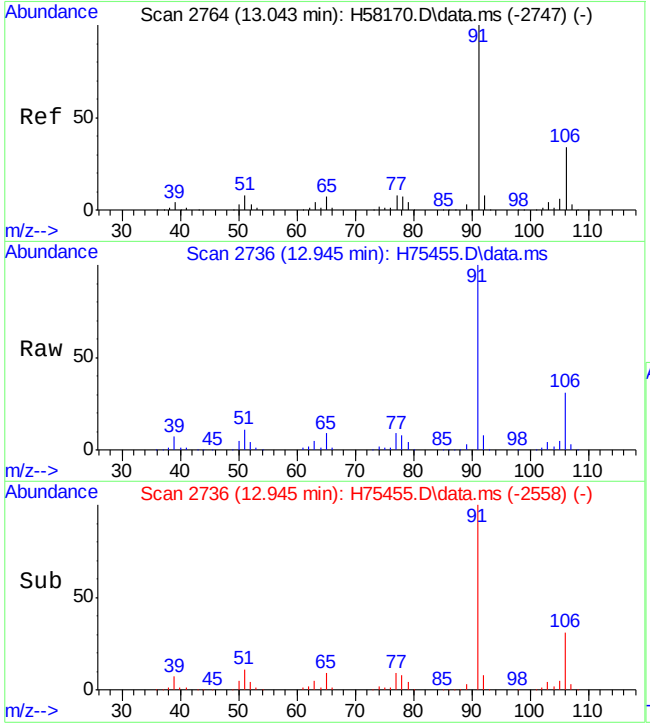


#73
1,1,1,2-tetrachloroethane
Concen: 54.70 ug/L
RT: 12.684 min Scan# 2662
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:131 Resp: 77758

Ion	Ratio	Lower	Upper
131	100		
133	93.4	64.9	124.9
119	65.1	26.4	86.4

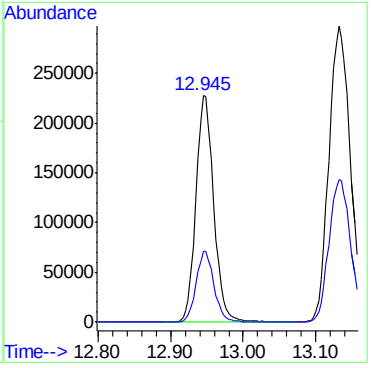




#74
ethylbenzene
Concen: 52.73 ug/L
RT: 12.945 min Scan# 2736
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 91 Resp: 388718

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.9	62.9



7.4.1

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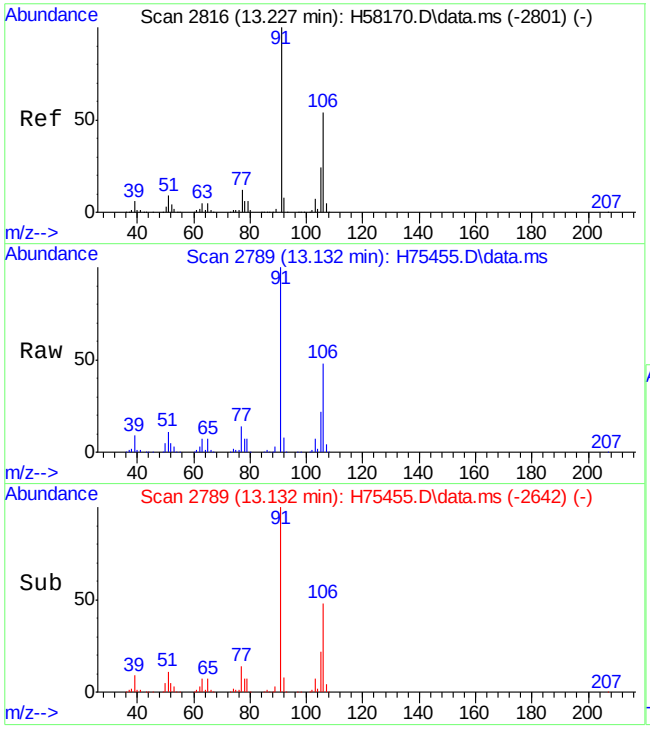
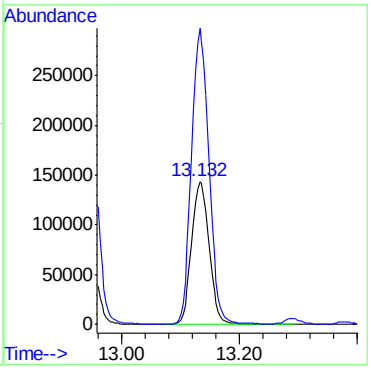
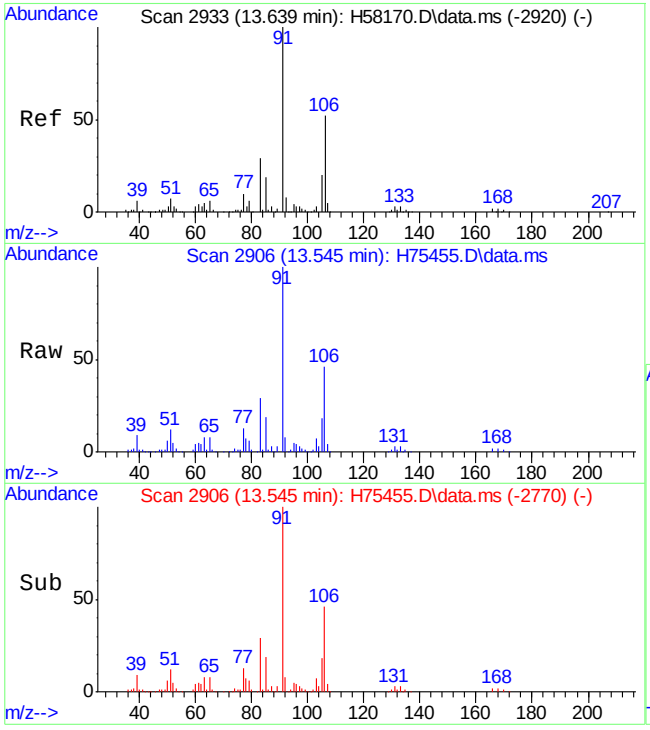


#75
m,p-xylene
Concen: 107.64 ug/L
RT: 13.132 min Scan# 2789
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:106 Resp: 297677

Ion	Ratio	Lower	Upper
106	100		
91	207.6	173.2	233.2

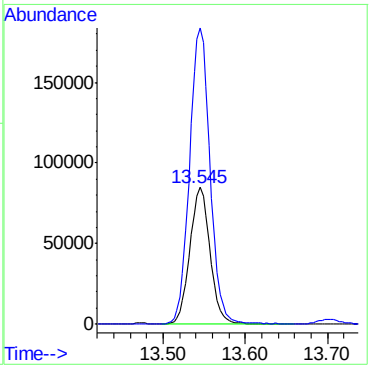




#76
o-xylene
Concen: 51.04 ug/L
RT: 13.545 min Scan# 2906
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:106 Resp: 144826

Ion	Ratio	Lower	Upper
106	100		
91	216.3	183.3	243.3



7.4.1

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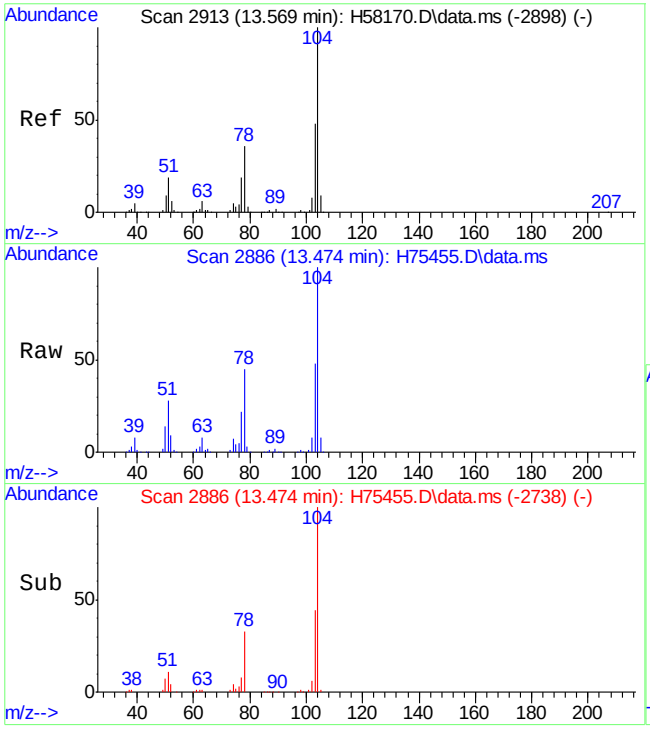
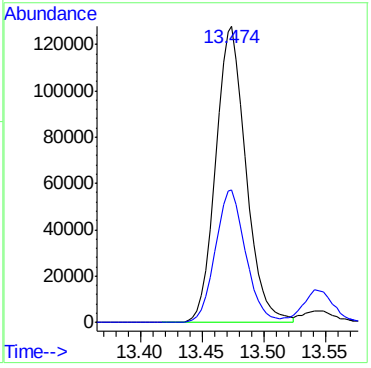
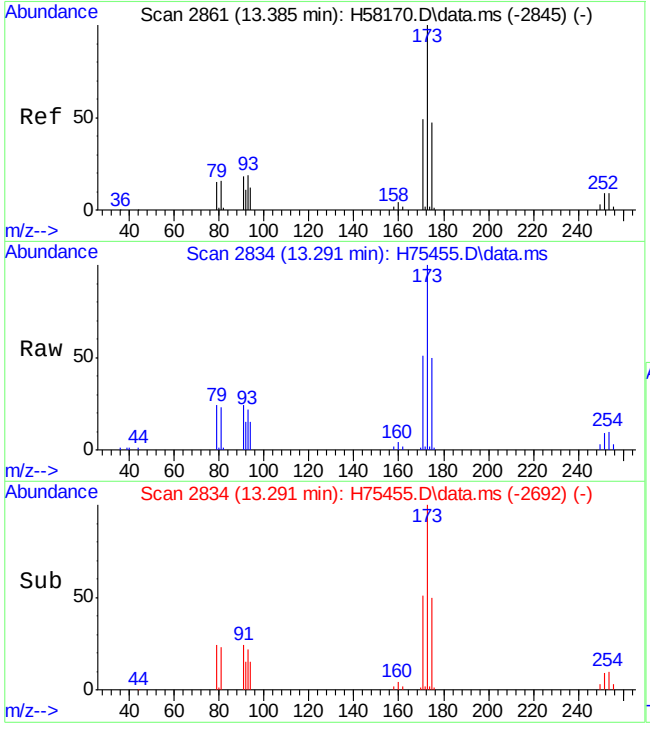


#77
styrene
Concen: 45.71 ug/L
RT: 13.474 min Scan# 2886
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:104 Resp: 218183

Ion	Ratio	Lower	Upper
104	100		
78	44.9	12.2	72.2

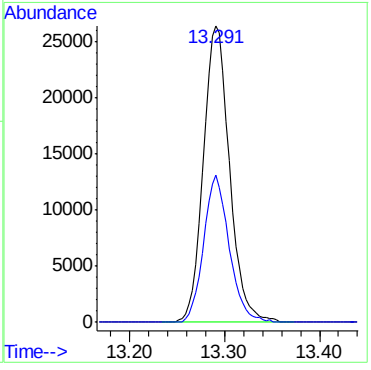


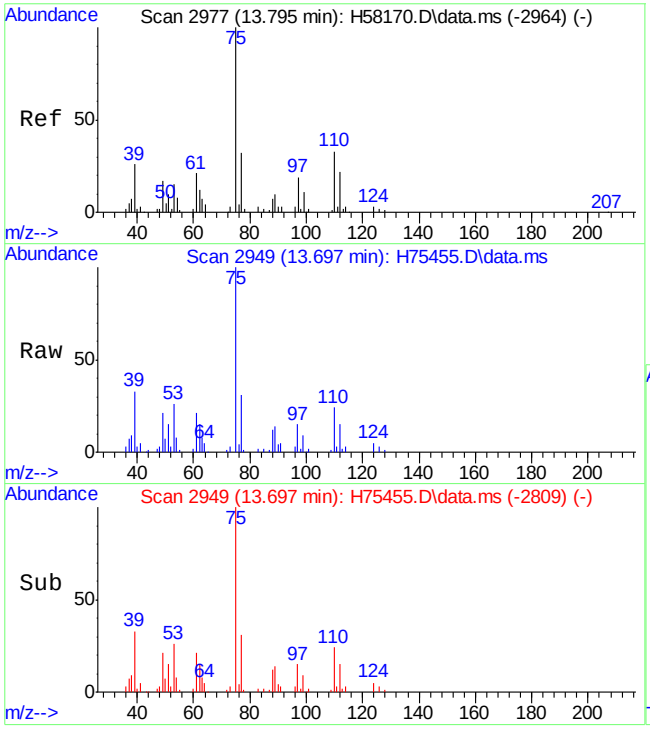


#78
bromoform
Concen: 52.13 ug/L
RT: 13.291 min Scan# 2834
Delta R.T. 0.002 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:173 Resp: 50267

Ion	Ratio	Lower	Upper
173	100		
175	50.2	17.7	77.7

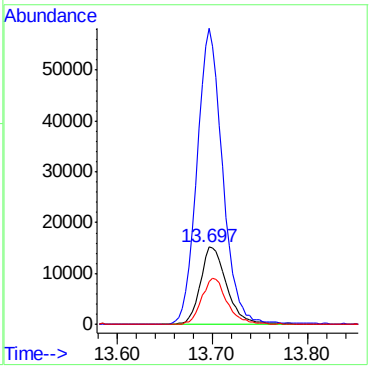


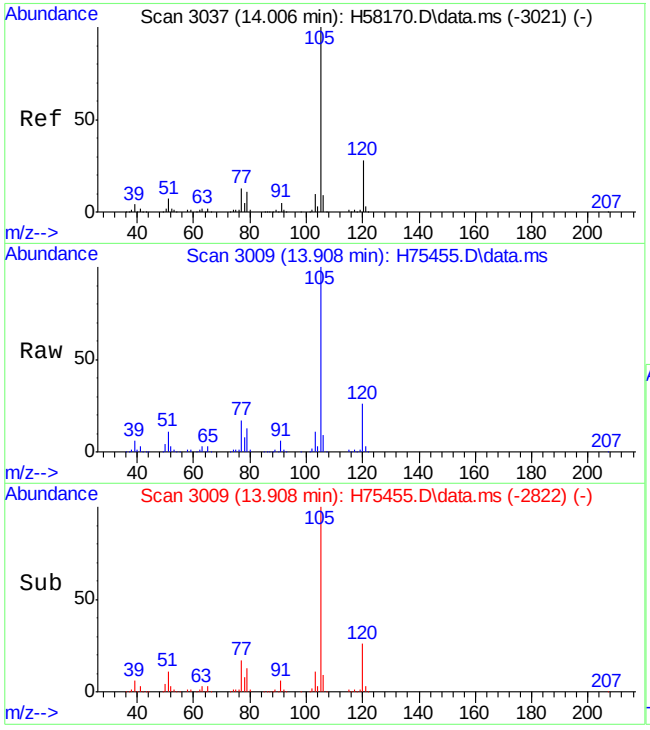


#79
trans-1,4-dichloro-2-butene
Concen: 52.39 ug/L
RT: 13.697 min Scan# 2949
Delta R.T. -0.005 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 53 Resp: 29146

Ion	Ratio	Lower	Upper
53	100		
75	383.2	302.8	362.8#
89	55.1	25.5	85.5

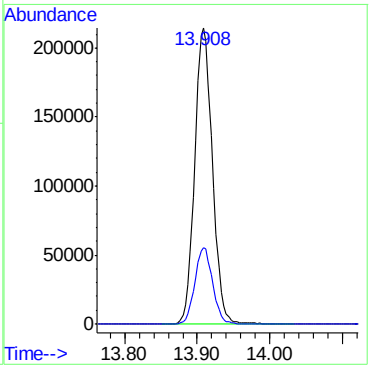


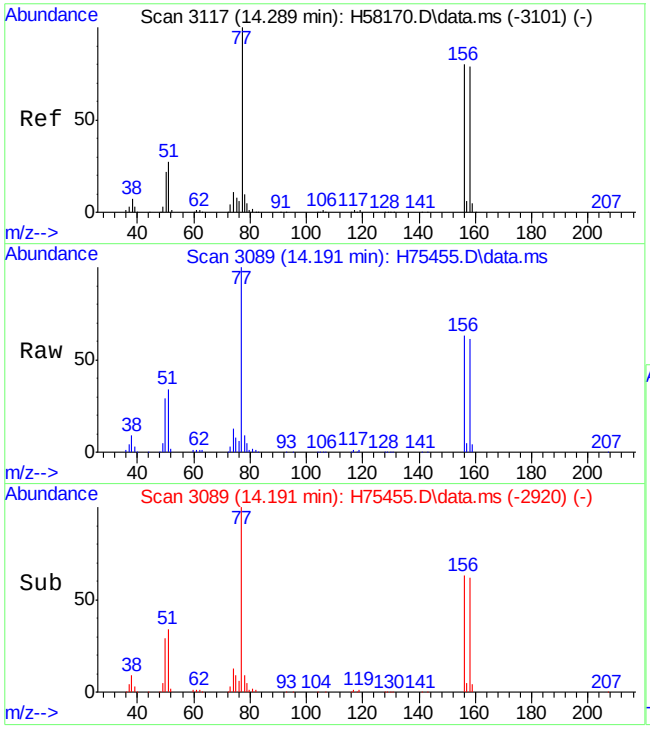


#81
isopropylbenzene
Concen: 48.35 ug/L
RT: 13.908 min Scan# 3009
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:105 Resp: 362929

Ion	Ratio	Lower	Upper
105	100		
120	25.8	0.0	56.6

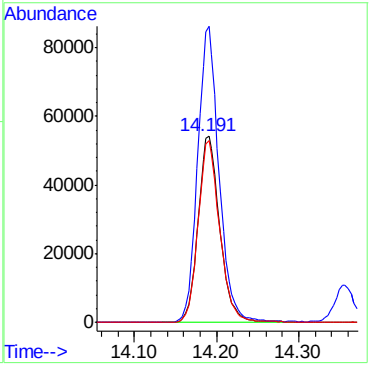


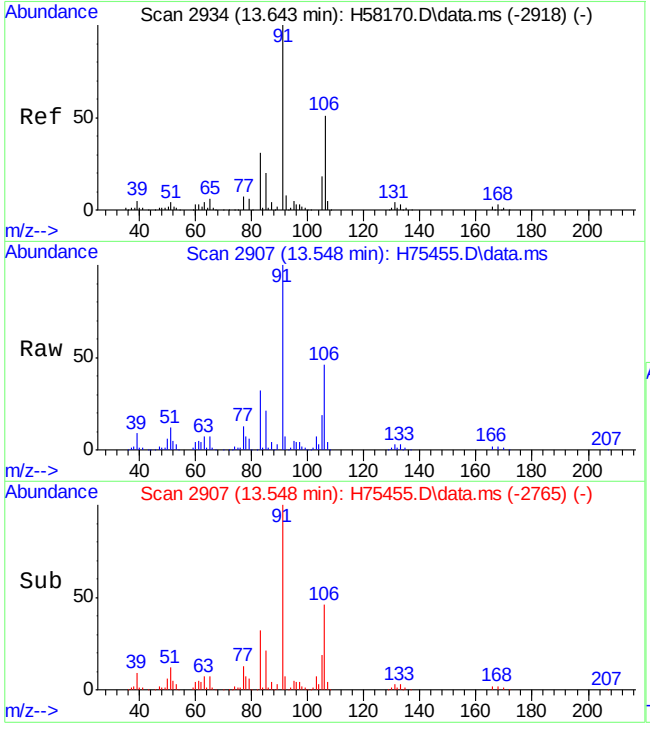


#83
bromobenzene
Concen: 47.84 ug/L
RT: 14.191 min Scan# 3089
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:156 Resp: 99259

Ion	Ratio	Lower	Upper
156	100		
77	158.7	93.1	153.1#
158	97.5	65.7	125.7

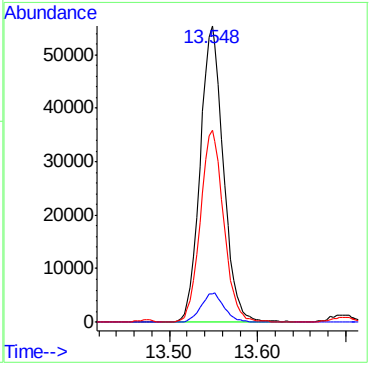


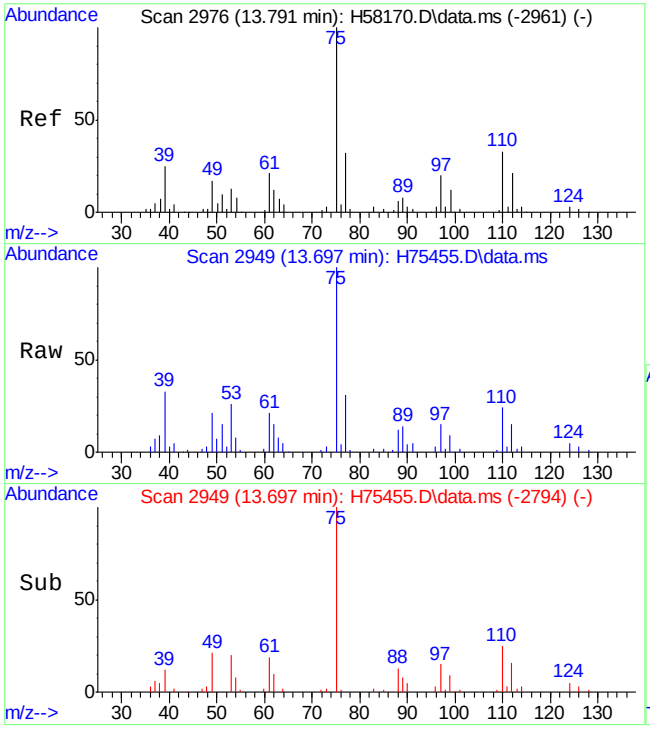


#84
1,1,2,2-tetrachloroethane
Concen: 55.22 ug/L
RT: 13.548 min Scan# 2907
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 83 Resp: 101079

Ion	Ratio	Lower	Upper
83	100		
131	9.6	0.0	45.7
85	64.6	36.0	96.0

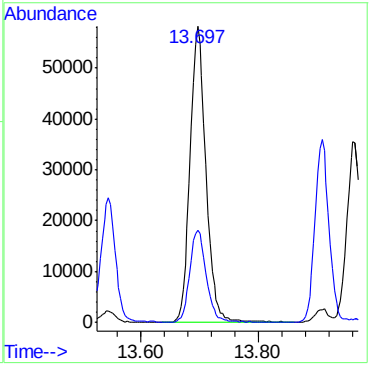


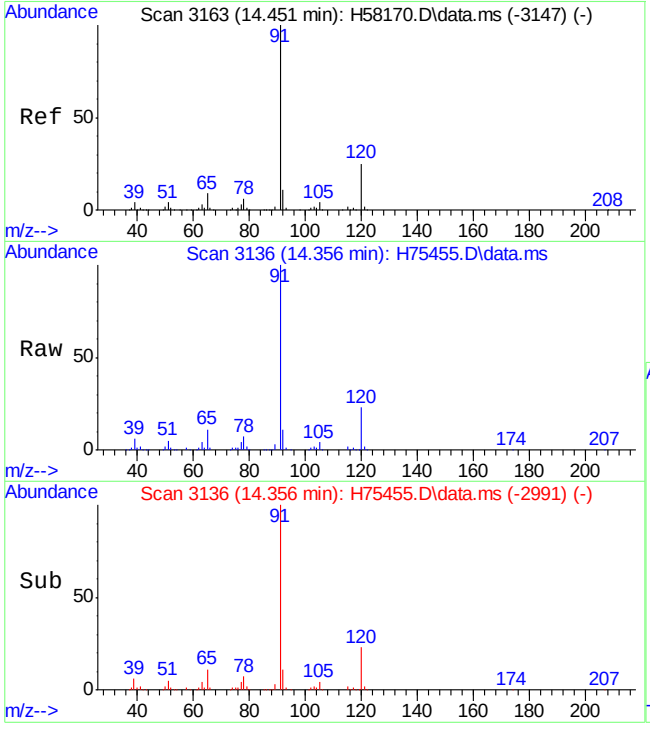


#85
1,2,3-trichloropropane
Concen: 52.46 ug/L
RT: 13.697 min Scan# 2949
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 75 Resp: 109044

Ion	Ratio	Lower	Upper
75	100		
77	31.0	4.2	64.2

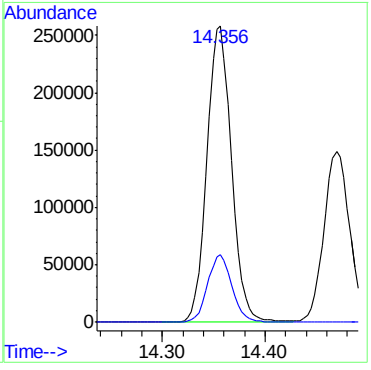




#86
n-propylbenzene
Concen: 48.27 ug/L
RT: 14.356 min Scan# 3136
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 91 Resp: 427405

Ion	Ratio	Lower	Upper
91	100		
120	22.8	0.0	55.4



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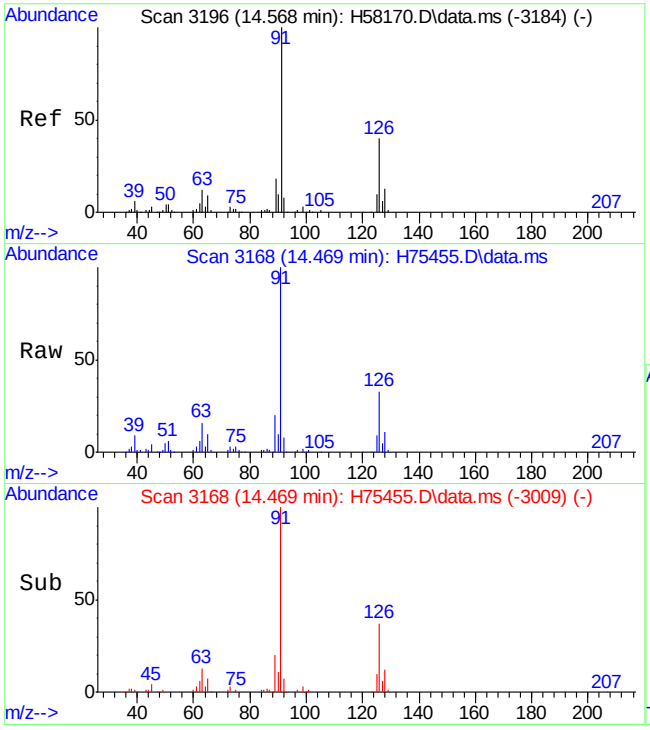
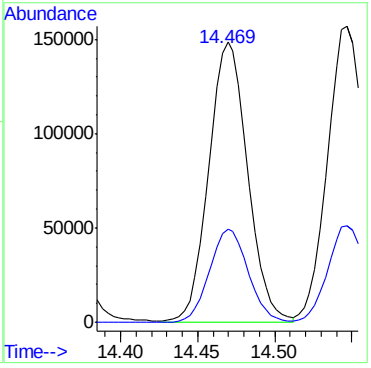
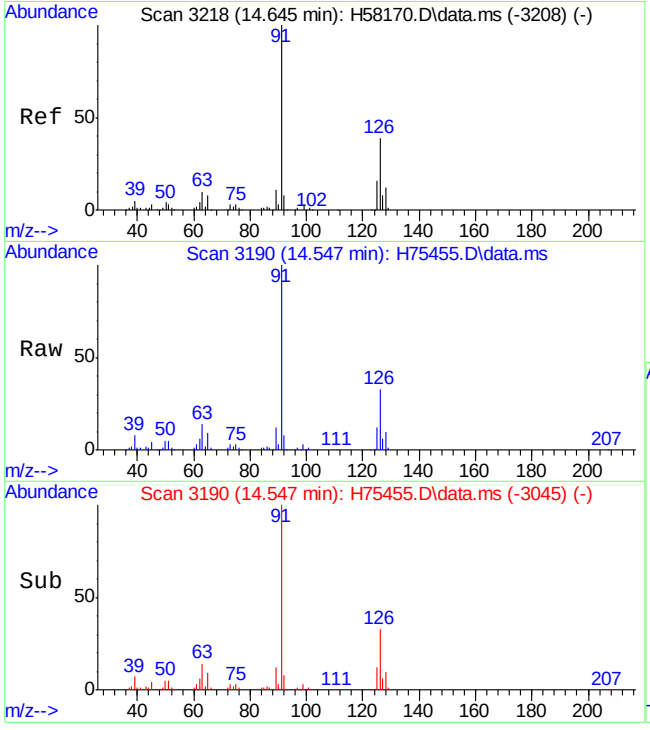


#87
2-chlorotoluene
Concen: 49.15 ug/L
RT: 14.469 min Scan# 3168
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 91 Resp: 260280

Ion	Ratio	Lower	Upper
91	100		
126	33.5	10.4	70.4

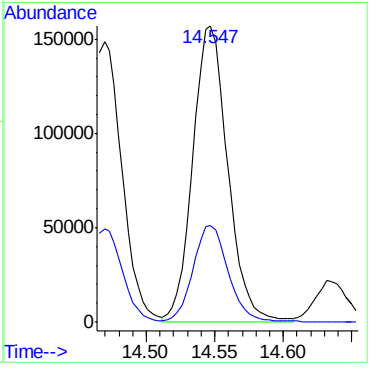


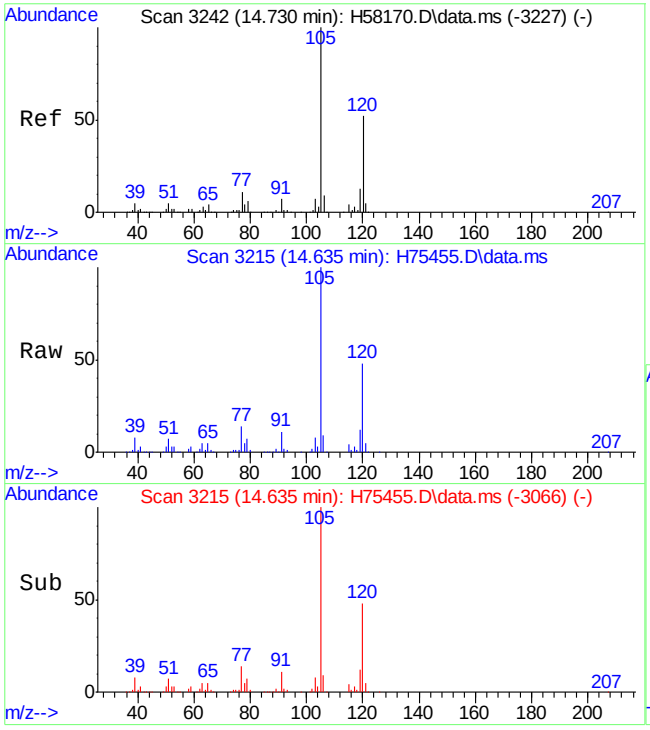


#88
4-chlorotoluene
Concen: 50.11 ug/L
RT: 14.547 min Scan# 3190
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 91 Resp: 279186

Ion	Ratio	Lower	Upper
91	100		
126	32.8	9.4	69.4

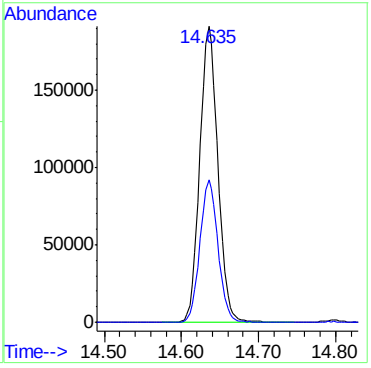


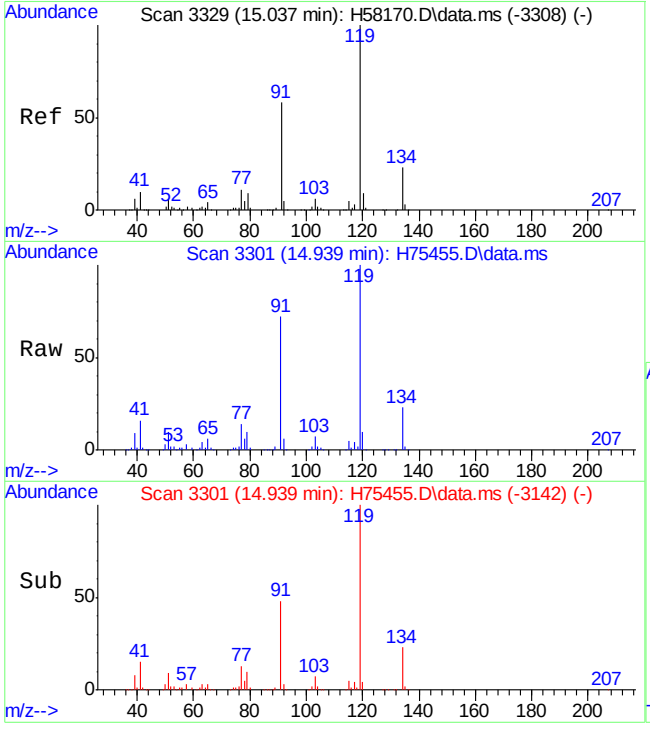


#89
1,3,5-trimethylbenzene
Concen: 52.84 ug/L
RT: 14.635 min Scan# 3215
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:105 Resp: 311676

Ion	Ratio	Lower	Upper
105	100		
120	48.2	18.1	78.1

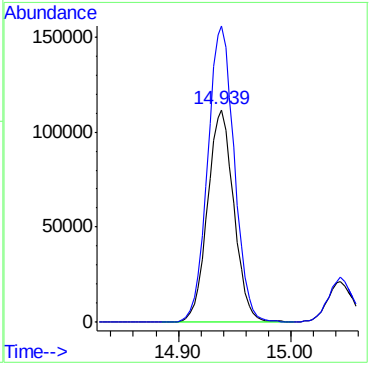


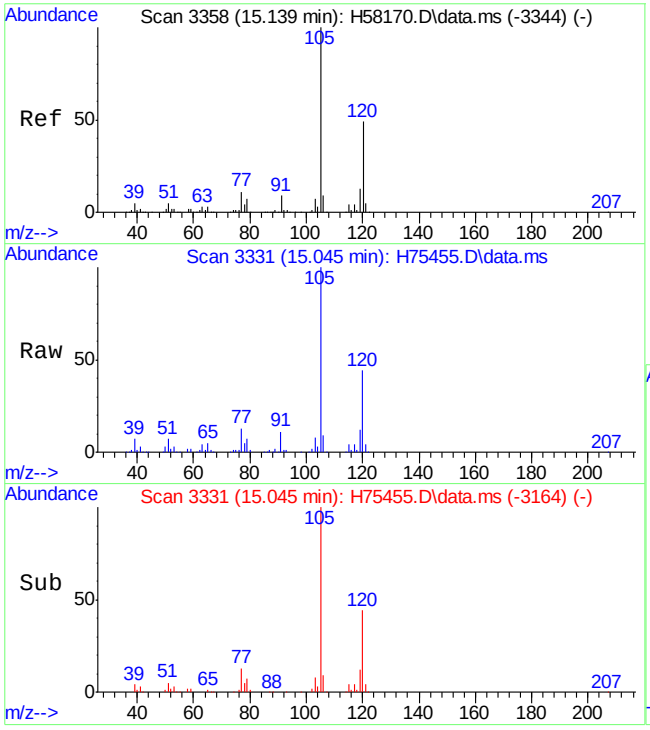


#90
tert-butylbenzene
Concen: 50.91 ug/L
RT: 14.939 min Scan# 3301
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 91 Resp: 183034

Ion	Ratio	Lower	Upper
91	100		
119	139.6	125.7	185.7

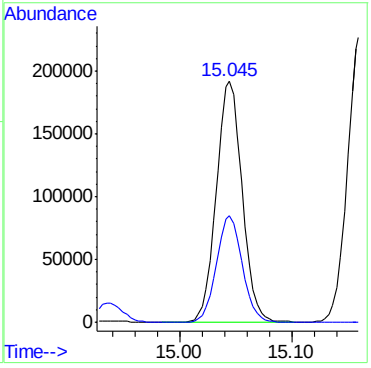


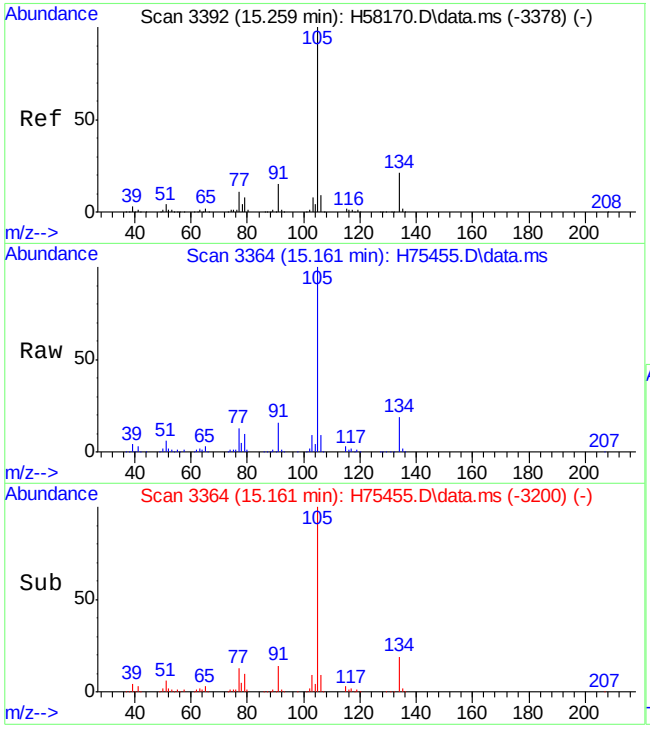


#91
1,2,4-trimethylbenzene
Concen: 52.22 ug/L
RT: 15.045 min Scan# 3331
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:105 Resp: 309027

Ion	Ratio	Lower	Upper
105	100		
120	44.3	15.6	75.6

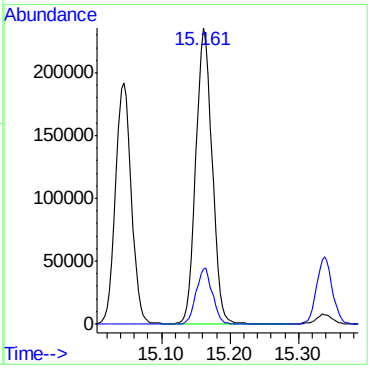


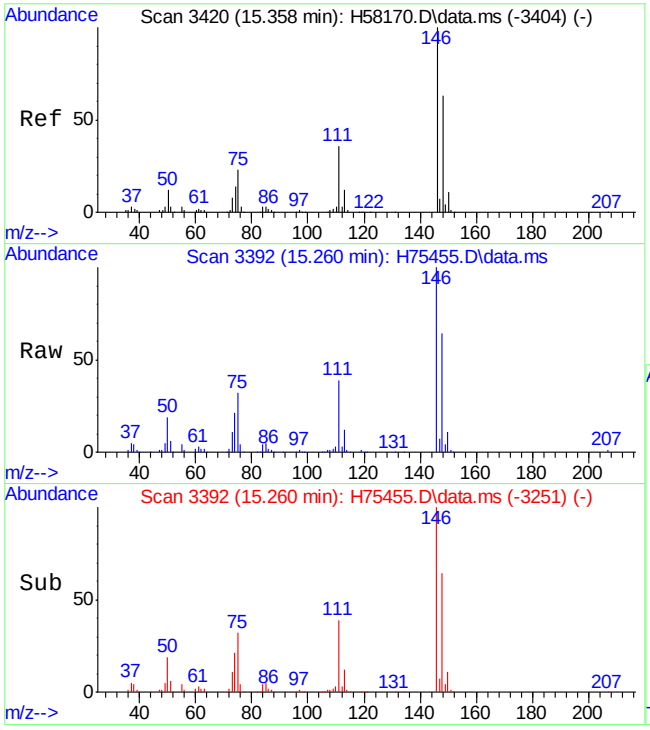


#92
sec-butylbenzene
Concen: 50.91 ug/L
RT: 15.161 min Scan# 3364
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:105 Resp: 389268

Ion	Ratio	Lower	Upper
105	100		
134	18.5	0.0	49.6

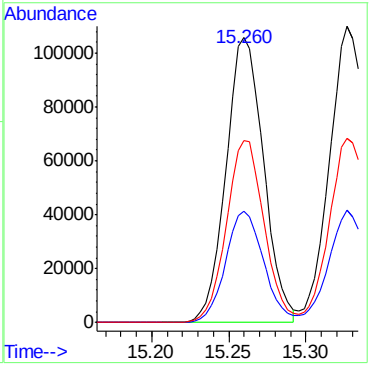


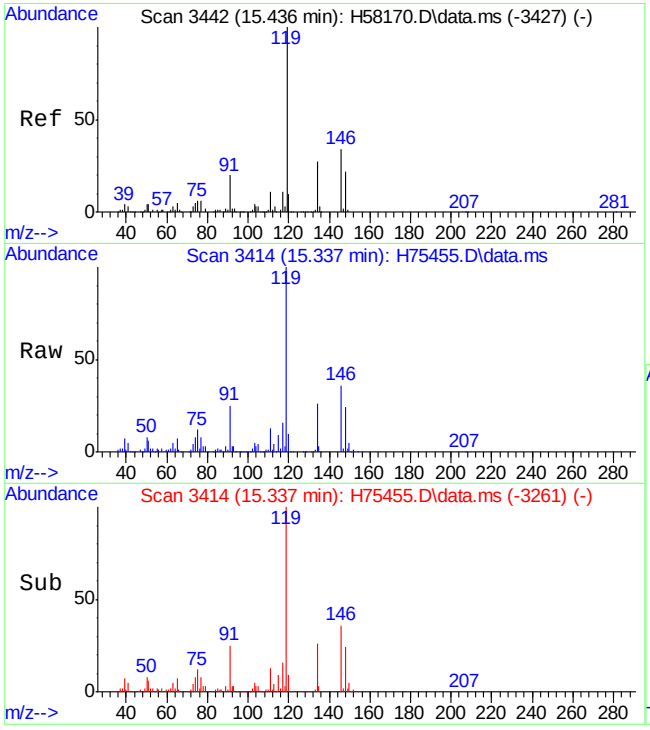


#93
1,3-dichlorobenzene
Concen: 50.98 ug/L
RT: 15.260 min Scan# 3392
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:146 Resp: 178999

Ion	Ratio	Lower	Upper
146	100		
111	39.1	8.2	68.2
148	63.9	34.0	94.0

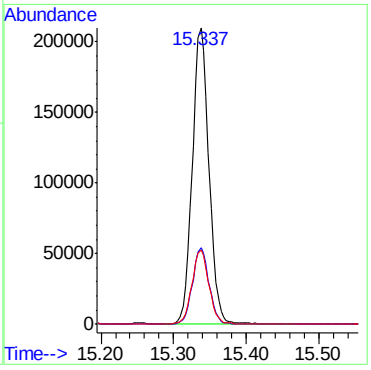


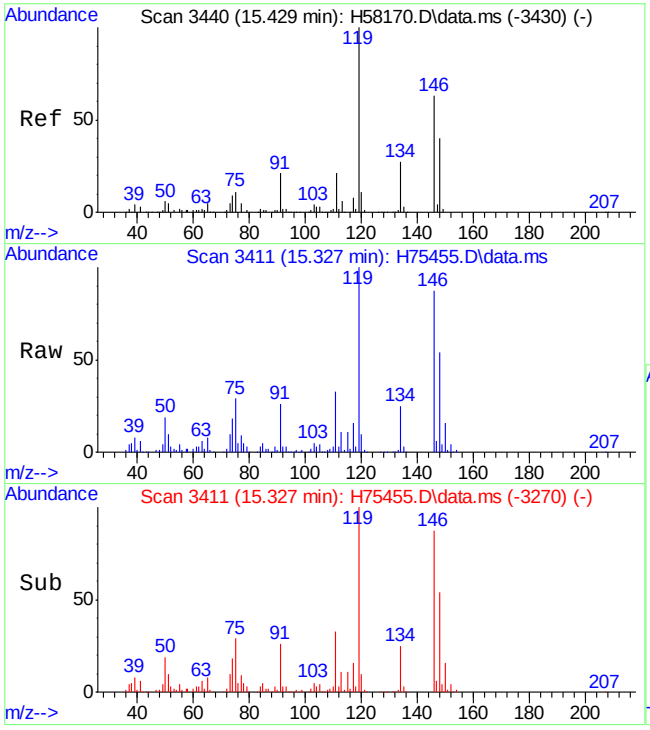


#94
p-isopropyltoluene
Concen: 51.96 ug/L
RT: 15.337 min Scan# 3414
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:119 Resp: 334003

Ion	Ratio	Lower	Upper
119	100		
134	25.7	0.0	57.0
91	25.1	0.0	52.8

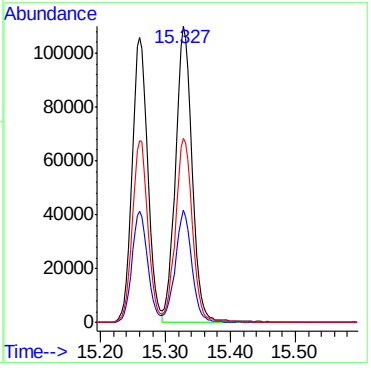


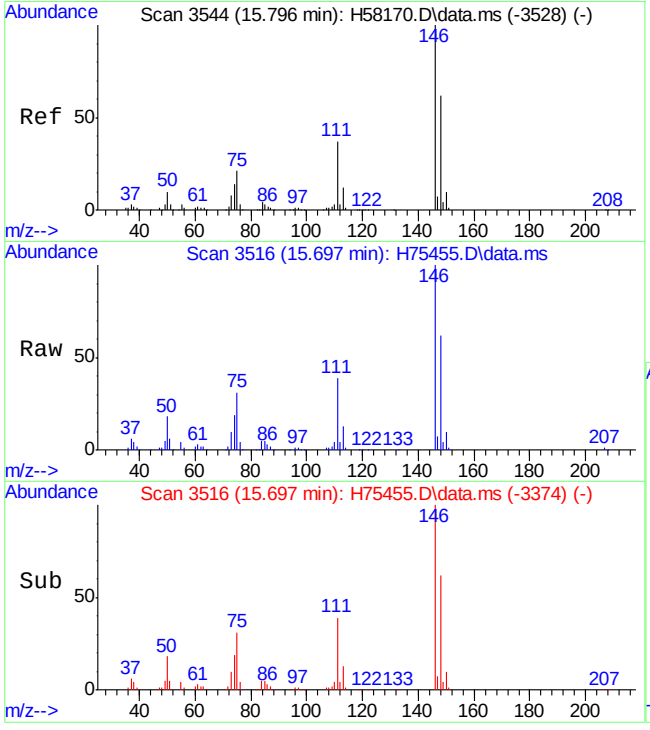


#95
1,4-dichlorobenzene
Concen: 50.98 ug/L
RT: 15.327 min Scan# 3411
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:146 Resp: 195240

Ion	Ratio	Lower	Upper
146	100		
111	37.7	6.7	66.7
148	62.1	34.0	94.0

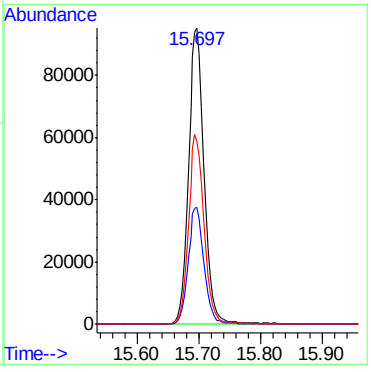




#96
1,2-dichlorobenzene
Concen: 52.87 ug/L
RT: 15.697 min Scan# 3516
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

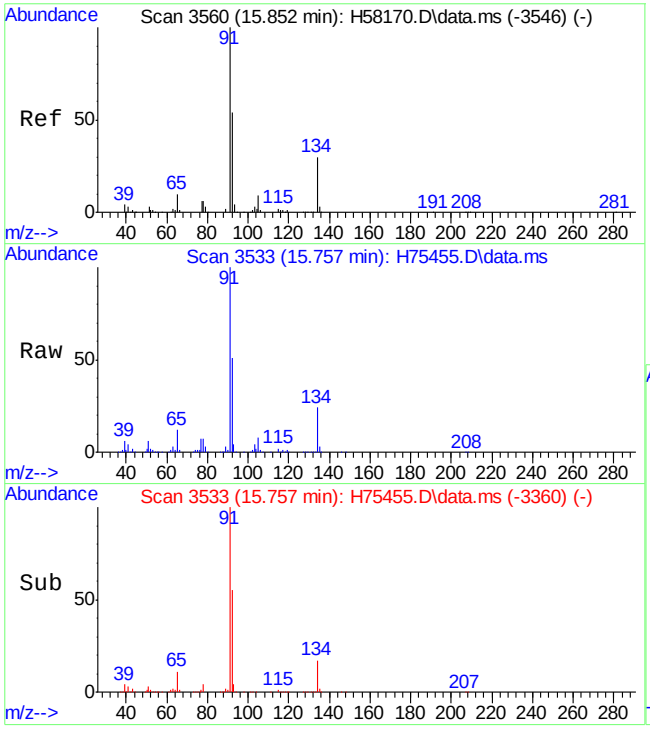
Tgt Ion:146 Resp: 168595

Ion	Ratio	Lower	Upper
146	100		
111	39.4	9.9	69.9
148	61.7	33.5	93.5



7.4.1

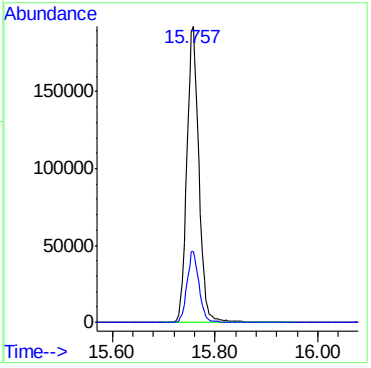
7

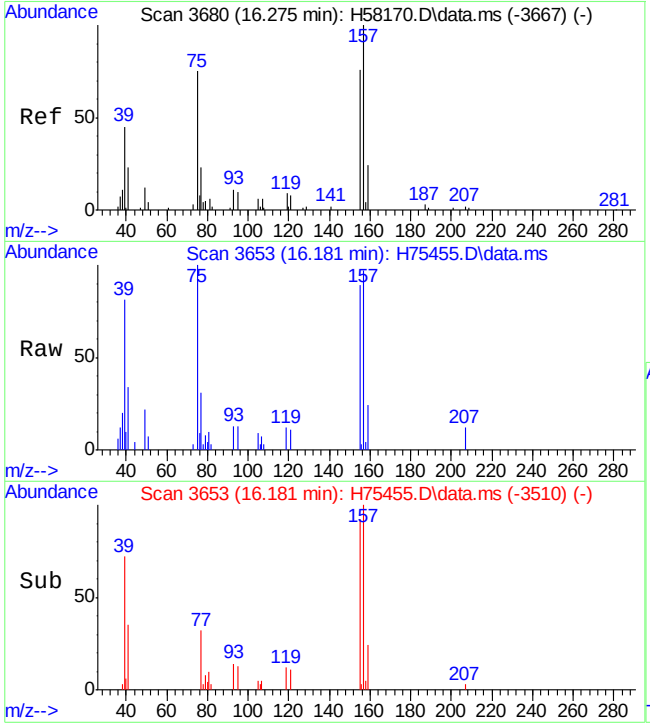


#97
n-butylbenzene
Concen: 54.68 ug/L
RT: 15.757 min Scan# 3533
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 91 Resp: 311592

Ion	Ratio	Lower	Upper
91	100		
134	23.8	0.0	59.2

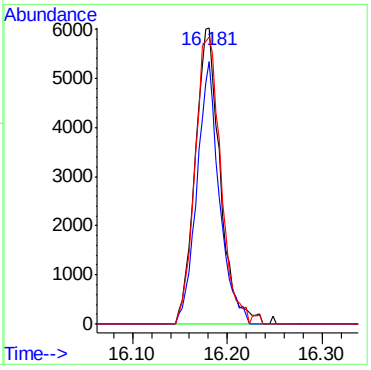


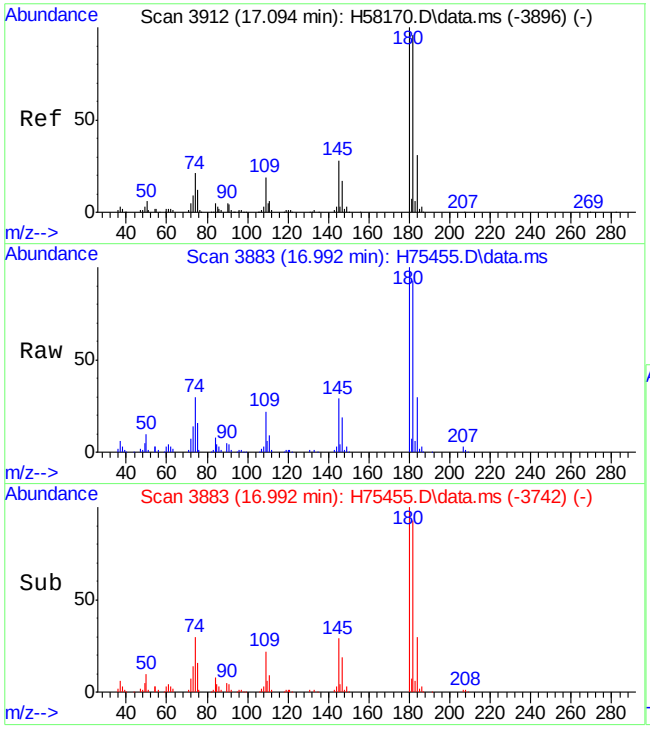


#98
1,2-dibromo-3-chloropropane
Concen: 60.11 ug/L
RT: 16.181 min Scan# 3653
Delta R.T. 0.005 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion: 75 Resp: 10943

Ion	Ratio	Lower	Upper
75	100		
155	88.8	66.2	126.2
157	101.5	88.7	148.7

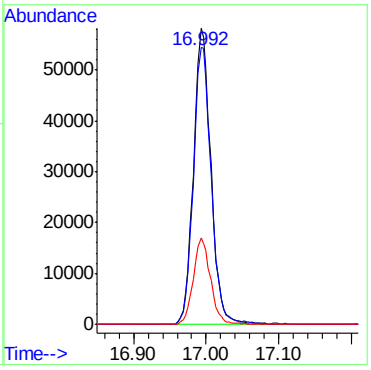


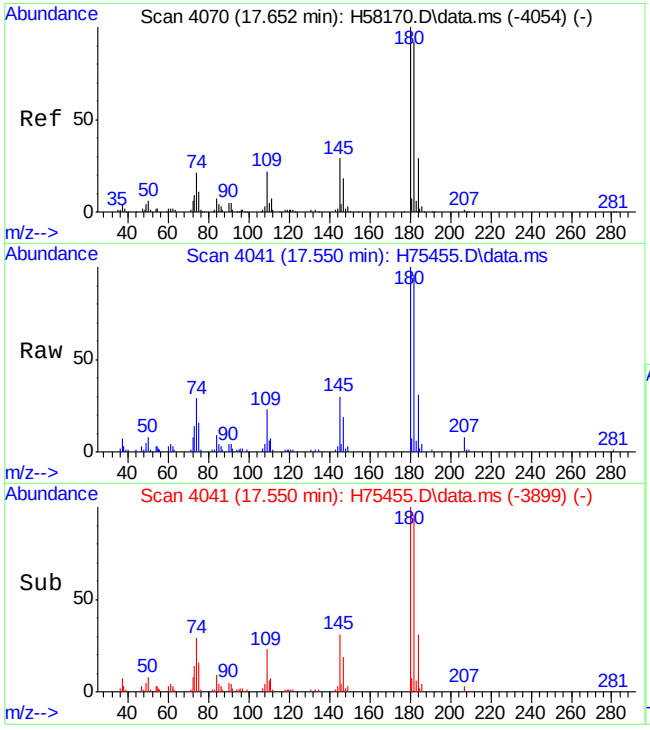


#99
1,3,5-trichlorobenzene
Concen: 49.40 ug/L
RT: 16.992 min Scan# 3883
Delta R.T. -0.003 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:180 Resp: 96764

Ion	Ratio	Lower	Upper
180	100		
182	95.7	74.1	111.1
145	28.7	28.0	42.0

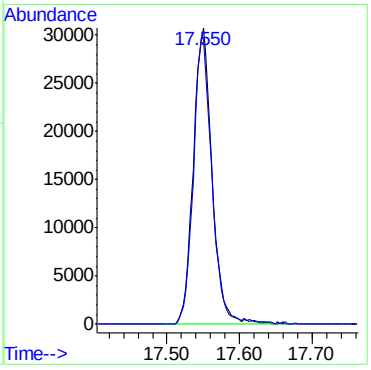




#100
1,2,4-trichlorobenzene
Concen: 55.72 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

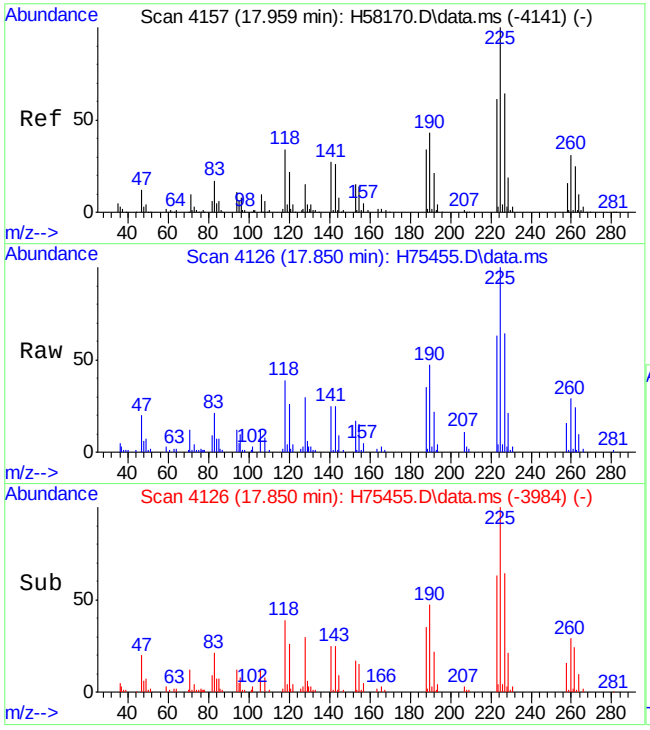
Tgt Ion:180 Resp: 55246

Ion	Ratio	Lower	Upper
180	100		
182	96.2	62.6	122.6



7.4.1

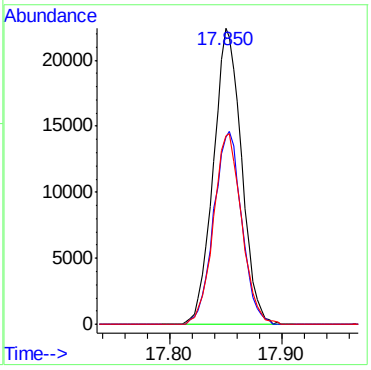
7

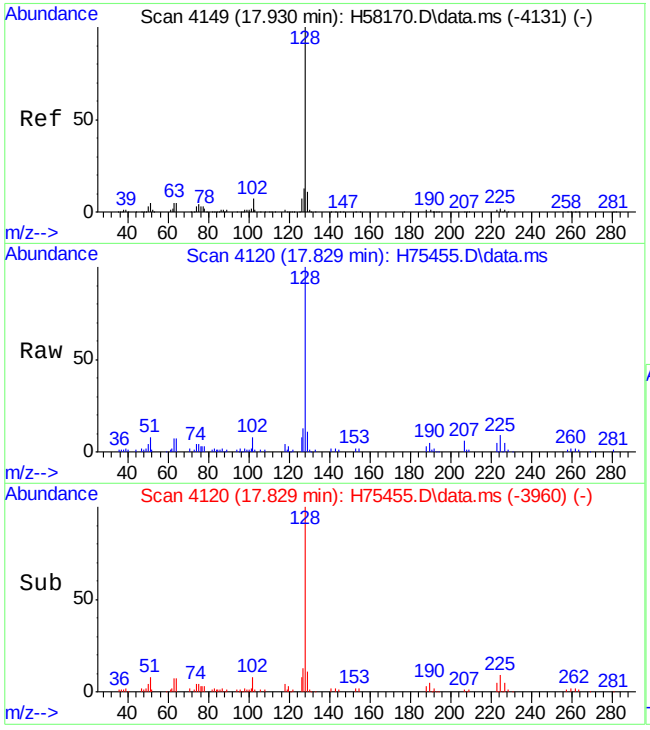


#101
hexachlorobutadiene
Concen: 53.43 ug/L
RT: 17.850 min Scan# 4126
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:225 Resp: 39209

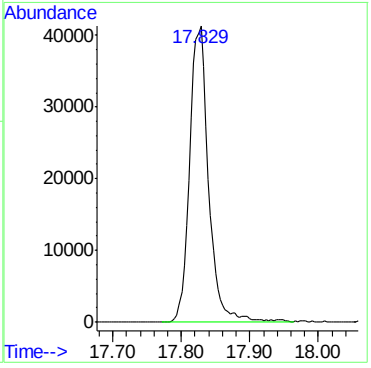
Ion	Ratio	Lower	Upper
225	100		
223	63.3	29.7	89.7
227	63.6	32.4	92.4

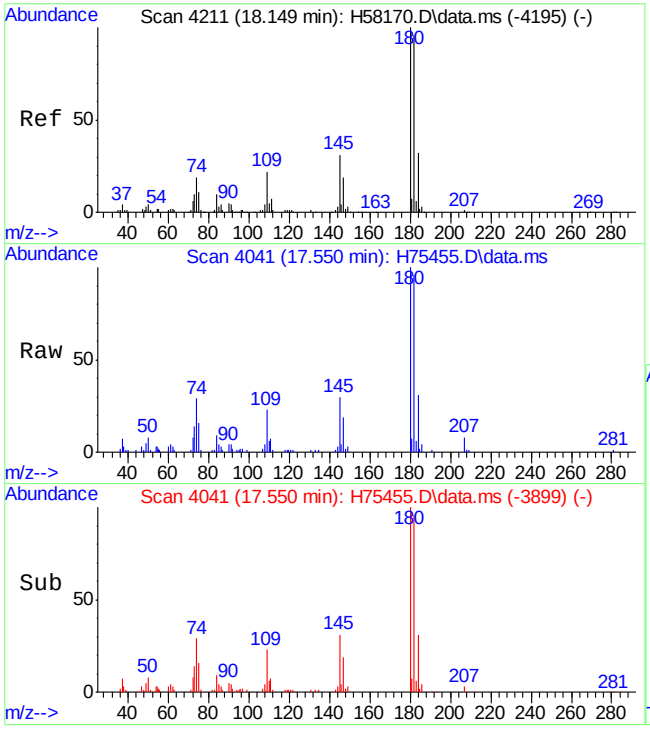




#102
naphthalene
Concen: 53.27 ug/L
RT: 17.829 min Scan# 4120
Delta R.T. 0.005 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:128 Resp: 79461

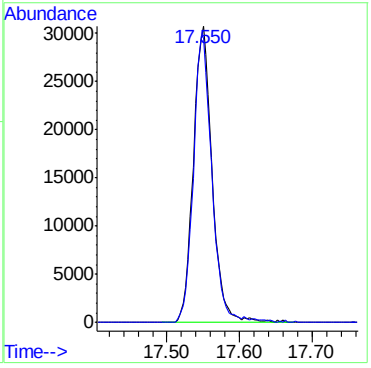




#103
1,2,3-trichlorobenzene
Concen: 55.72 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75455.D
Acq: 7 Oct 15 8:23 pm

Tgt Ion:180 Resp: 55246

Ion	Ratio	Lower	Upper
180	100		
182	96.2	64.3	124.3



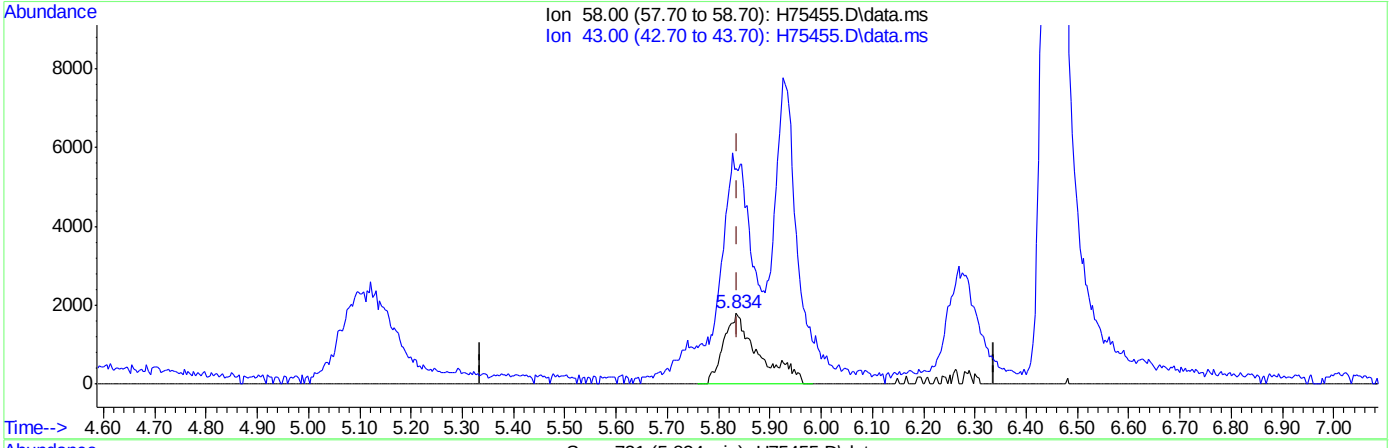
7.4.1

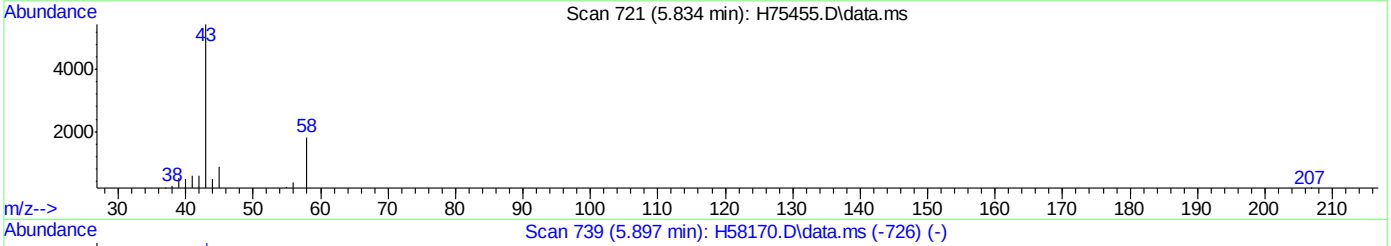
7

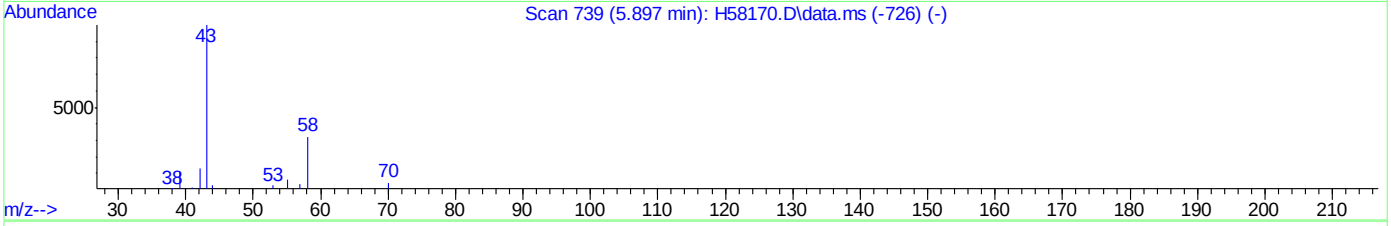
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On    :  7 Oct 2015   8:23 pm
Operator  : kaylap
Sample    : mc41757-3ms
Misc      : ms35386,msh2511,,,,5,1
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Oct 08 08:35:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
```







TIC: H75455.D\data.ms

(15) acetone (p)

5.834min (-0.003) 57.02ug/L

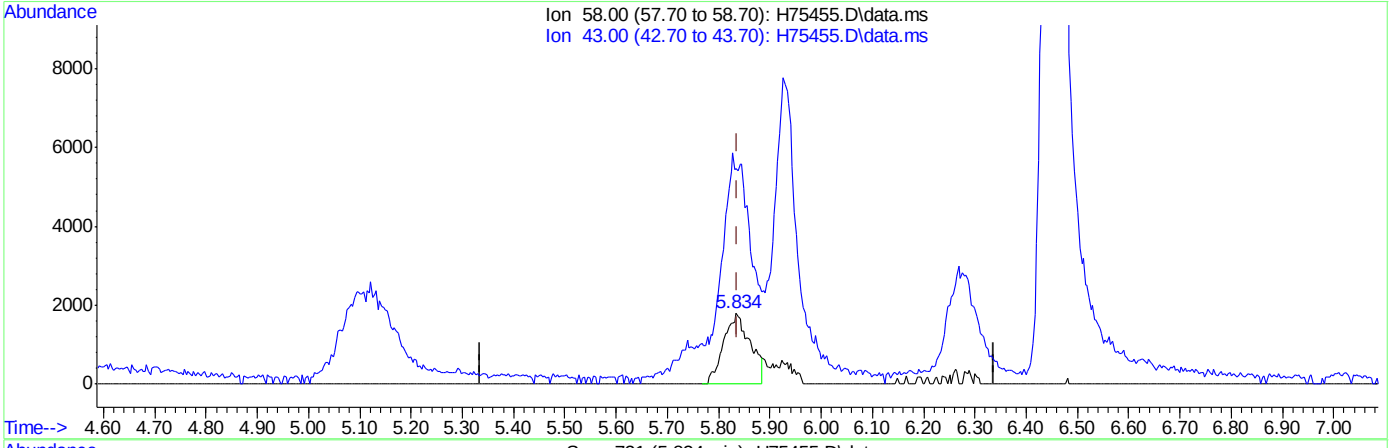
response 8505

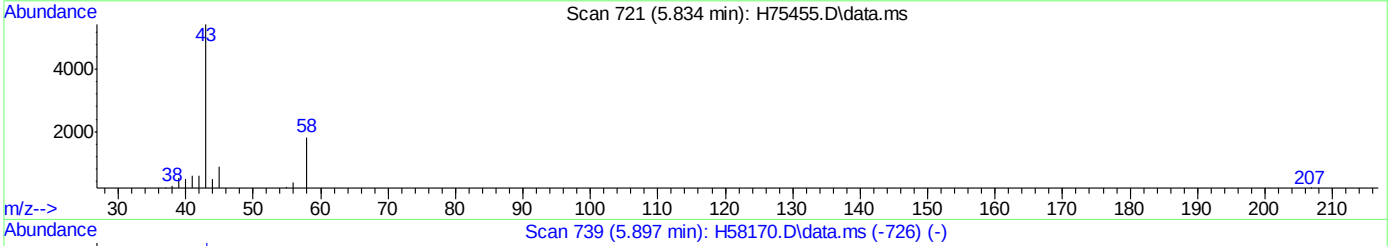
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	250.22#
0.00	0.00	0.00
0.00	0.00	0.00

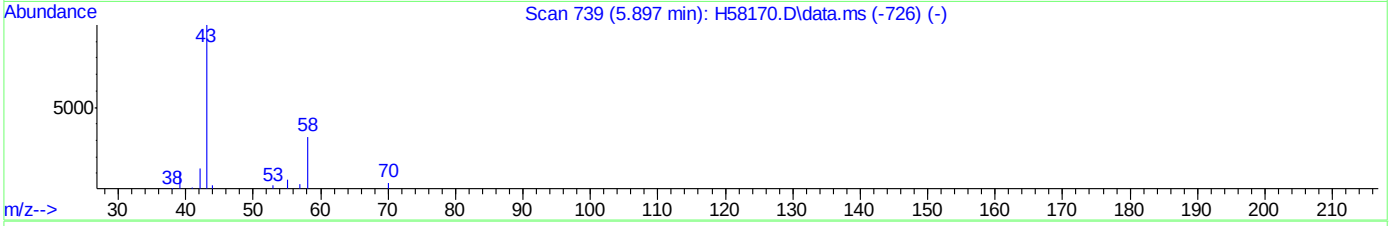
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On : 7 Oct 2015 8:23 pm
Operator : kaylap
Sample : mc41757-3ms
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 08:35:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75455.D\data.ms

(15) acetone (p)

5.834min (-0.003) 43.48ug/L m

response 6486

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	301.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On    :  7 Oct 2015   8:23 pm
Operator  : kaylap
Sample    : mc41757-3ms
Misc      : ms35386,msh2511,,,,5,1
ALS Vial  : 23   Sample Multiplier: 1

Quant Time: Oct 08 08:35:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration
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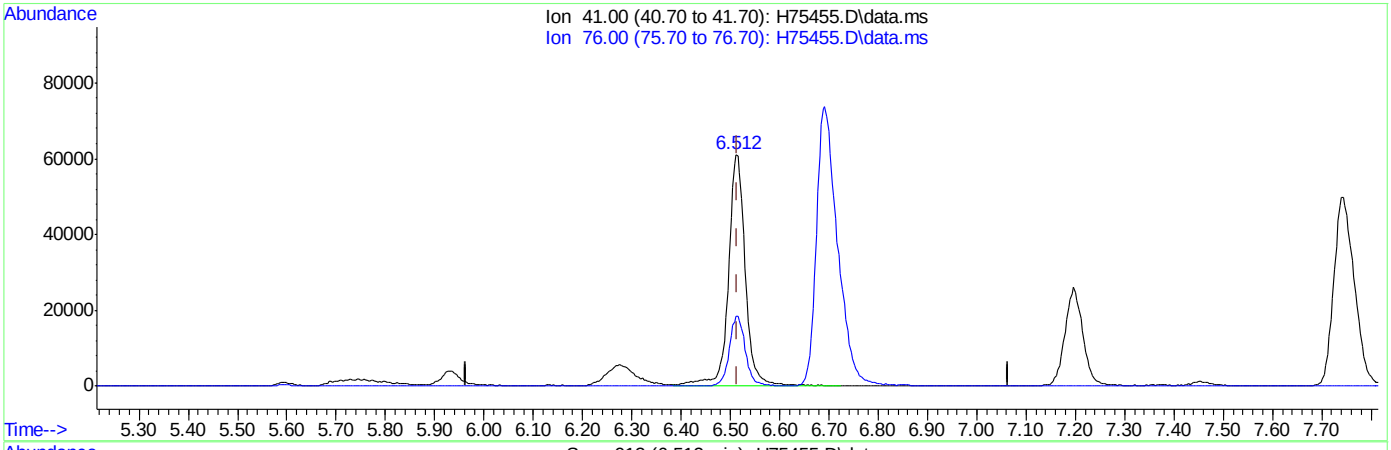
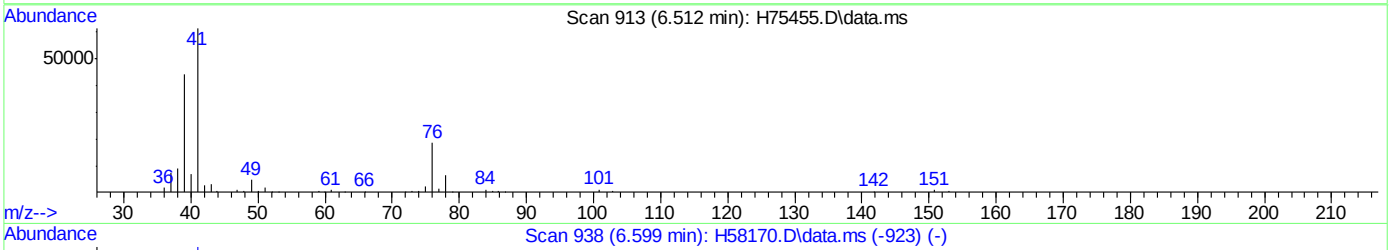
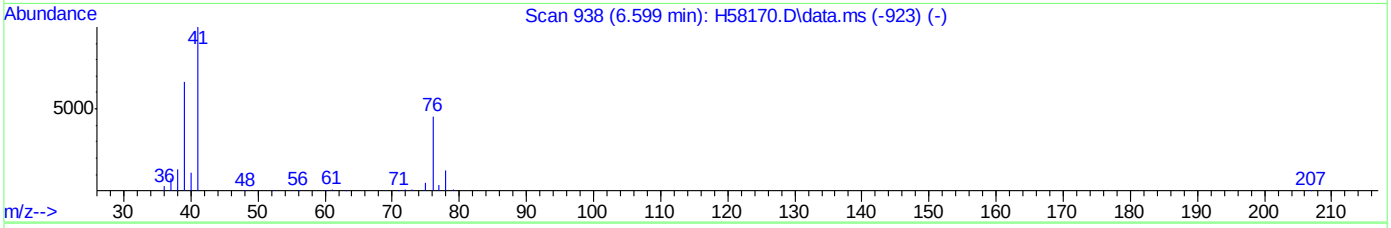






TIC: H75455.D\data.ms

(21) allyl chloride (p)

6.512min (-0.003) 59.15ug/L

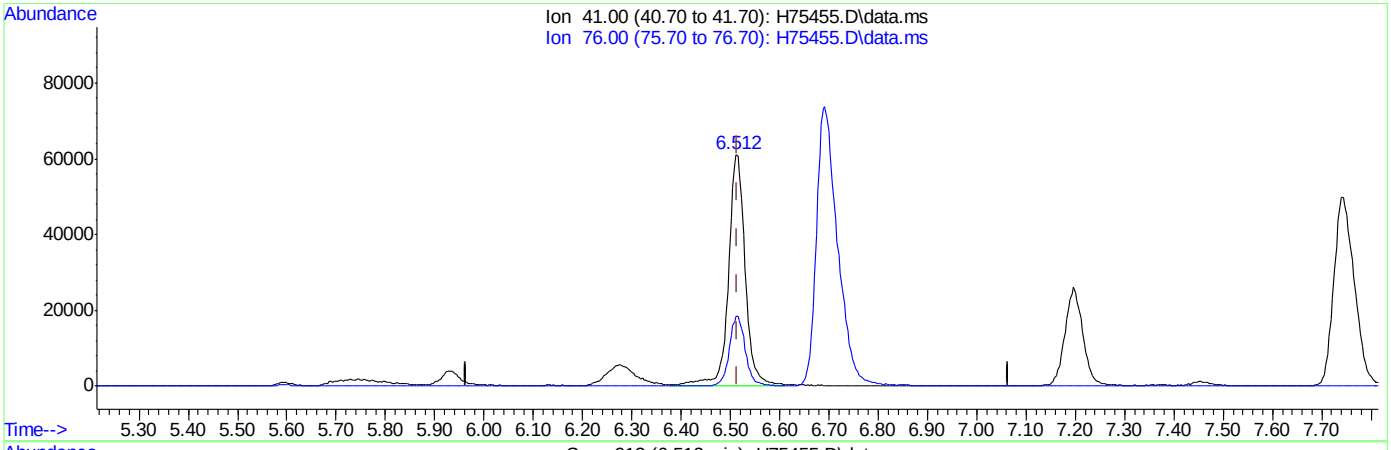
response 147131

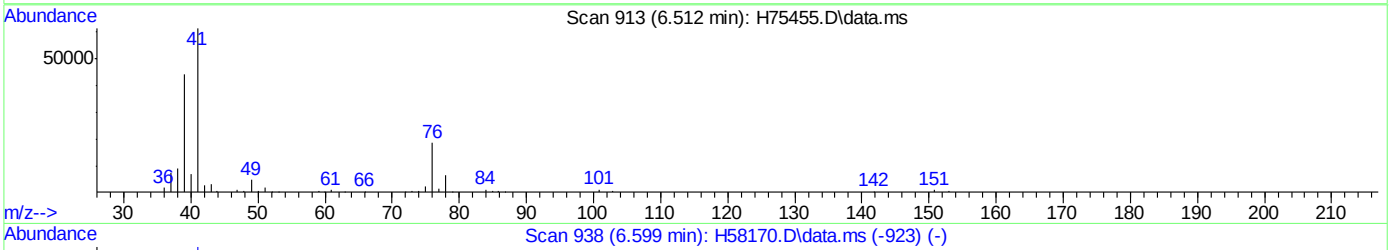
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.07
0.00	0.00	0.00
0.00	0.00	0.00

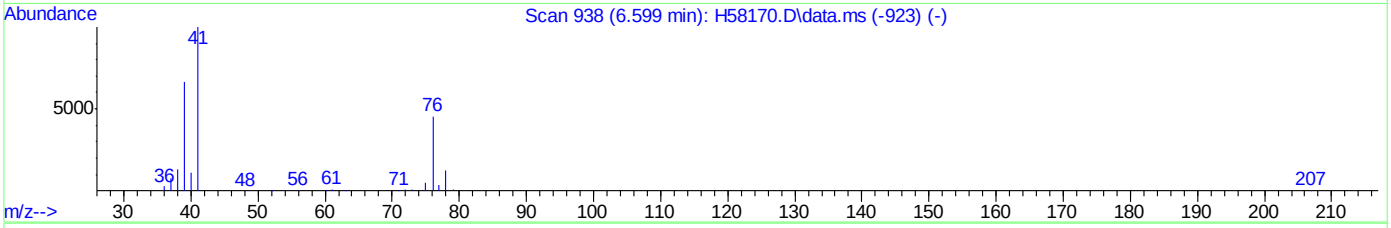
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75455.D
Acq On : 7 Oct 2015 8:23 pm
Operator : kaylap
Sample : mc41757-3ms
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 08:35:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75455.D\data.ms

(21) allyl chloride (p)

6.512min (-0.003) 58.55ug/L m

response 145649

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/08/15 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:37:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	69973	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	159850	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	254089	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	156676	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	146257	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	87487	54.12	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.24%			
60) toluene-d8 (s)	11.273	98	304712	49.44	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.88%			
82) bromofluorobenzene (s)	13.961	95	139425	48.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.26%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.272	59	81804	506.21	ug/L	98
3) Ethanol	5.094	45	102953	4839.03	ug/L	98
5) dichlorodifluoromethane	4.024	85	37500	21.61	ug/L	97
6) chloromethane	4.268	50	79111	52.77	ug/L	96
7) vinyl chloride	4.501	62	86939	52.22	ug/L	100
8) bromomethane	4.952	96	55206	55.74	ug/L	97
9) chloroethane	5.104	64	59351	58.31	ug/L	99
11) trichlorofluoromethane	5.694	101	127454	51.01	ug/L	98
12) freon-113	6.459	101	83566	52.73	ug/L	90
13) acrolein	5.690	56	43016	599.92	ug/L	100
14) 1,1-dichloroethene	6.272	96	78648	57.28	ug/L #	72
15) acetone	5.824	58	7170m	42.18	ug/L	
16) ethyl ether	5.933	59	77325	56.42	ug/L	81
17) methyl acetate	6.452	43	92583	59.30	ug/L	87
18) methylene chloride	6.452	84	97916	56.38	ug/L #	73
19) methyl tert butyl ether	7.200	73	242573	56.83	ug/L	88
20) acrylonitrile	6.332	53	37232	59.31	ug/L	89
21) allyl chloride	6.516	41	159642m	56.32	ug/L	
22) trans-1,2-dichloroethene	7.105	96	84564	55.29	ug/L	83
23) iodomethane	6.360	142	131397	53.45	ug/L	94
24) carbon disulfide	6.692	76	237360	47.29	ug/L	99
25) propionitrile	7.373	54	12514	54.22	ug/L	100
26) vinyl acetate	7.454	43	177040	58.80	ug/L	91
27) chloroprene	7.719	53	140567	53.18	ug/L	99
28) di-isopropyl ether	7.761	45	328690	58.33	ug/L	88
29) methacrylonitrile	7.871	41	57252	52.87	ug/L	94
30) 2-butanone	7.772	72	10094	52.67	ug/L #	71
31) 1,1-dichloroethane	7.352	63	171867	54.92	ug/L	94
32) tert-butyl ethyl ether	8.160	59	287719	54.90	ug/L	90
33) Hexane	7.744	41	153049	53.22	ug/L	90
34) isobutyl alcohol	8.160	43	57832	429.69	ug/L	84
35) 2,2-dichloropropane	8.213	77	122545	53.21	ug/L	93
36) cis-1,2-dichloroethene	7.924	96	95706	56.91	ug/L	86
37) ethyl acetate	8.160	43	58693	86.73	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:37:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.090	128	45377	55.30	ug/L	#	51
39)	chloroform	8.128	83	168187	55.92	ug/L		100
41)	1,1,1-trichloroethane	8.876	97	139697	58.36	ug/L		92
43)	cyclohexane	9.159	56	150029	49.82	ug/L	#	76
44)	carbon tetrachloride	9.240	117	118205	59.37	ug/L		96
45)	1,1-dichloropropene	9.053	75	116335	52.98	ug/L		91
46)	benzene	9.275	78	344448	53.32	ug/L		99
47)	tetrahydrofuran	8.453	42	27591	51.28	ug/L		90
48)	1,2-dichloroethane	8.774	62	130656	54.21	ug/L		99
49)	tert-amyl methyl ether	9.399	73	231027	52.61	ug/L		90
50)	heptane	9.762	43	111363	48.97	ug/L		91
51)	trichloroethene	9.896	95	92462	54.62	ug/L		80
52)	1,2-dichloropropane	9.861	63	95312	53.12	ug/L		95
53)	dibromomethane	9.836	93	59500	55.31	ug/L		93
54)	bromodichloromethane	9.949	83	117816	54.70	ug/L		97
55)	methylcyclohexane	10.415	83	135335	49.22	ug/L		86
57)	methyl methacrylate	10.055	69	54873	48.85	ug/L		91
58)	1,4-dioxane	10.048	88	3629	236.48	ug/L		96
59)	cis-1,3-dichloropropene	10.570	75	129786	53.98	ug/L		91
61)	4-methyl-2-pentanone	10.666	43	94640	51.95	ug/L		91
62)	toluene	11.347	92	200505	50.81	ug/L		98
63)	trans-1,3-dichloropropene	10.994	75	113859	46.89	ug/L		99
64)	1,1,2-trichloroethane	11.160	83	67765	51.60	ug/L		89
65)	ethyl methacrylate	11.375	69	111632	51.92	ug/L		91
67)	tetrachloroethene	12.084	166	89498	47.91	ug/L		94
68)	1,3-dichloropropane	11.400	76	139116	49.59	ug/L		96
69)	dibromochloromethane	11.682	129	83200	45.01	ug/L		96
70)	1,2-dibromoethane	11.936	107	81293	49.20	ug/L		96
71)	2-hexanone	11.527	43	65042	47.97	ug/L		93
72)	chlorobenzene	12.765	112	229733	46.20	ug/L		90
73)	1,1,1,2-tetrachloroethane	12.684	131	81114	52.73	ug/L		94
74)	ethylbenzene	12.945	91	397795	49.87	ug/L		97
75)	m,p-xylene	13.132	106	309215	103.32	ug/L		97
76)	o-xylene	13.542	106	153437	49.97	ug/L		100
77)	styrene	13.471	104	235859	45.66	ug/L		96
78)	bromoform	13.291	173	54573	52.29	ug/L		98
79)	trans-1,4-dichloro-2-b...	13.700	53	31159	51.80	ug/L		88
81)	isopropylbenzene	13.909	105	385414	45.39	ug/L		99
83)	bromobenzene	14.191	156	107770	45.91	ug/L	#	84
84)	1,1,2,2-tetrachloroethane	13.545	83	110829	53.53	ug/L		96
85)	1,2,3-trichloropropane	13.697	75	120066	51.07	ug/L		94
86)	n-propylbenzene	14.353	91	458409	45.77	ug/L		94
87)	2-chlorotoluene	14.470	91	282706	47.19	ug/L		90
88)	4-chlorotoluene	14.547	91	300990	47.76	ug/L		90
89)	1,3,5-trimethylbenzene	14.635	105	337676	50.61	ug/L		100
90)	tert-butylbenzene	14.939	91	194285	47.77	ug/L		88
91)	1,2,4-trimethylbenzene	15.045	105	330702	49.40	ug/L		100
92)	sec-butylbenzene	15.161	105	417509	48.27	ug/L		98
93)	1,3-dichlorobenzene	15.260	146	189314	47.67	ug/L		98
94)	p-isopropyltoluene	15.338	119	358494	49.30	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:37:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.327	146	204751	47.26	ug/L	98
96) 1,2-dichlorobenzene	15.694	146	177661	49.25	ug/L	99
97) n-butylbenzene	15.758	91	332964	51.65	ug/L	90
98) 1,2-dibromo-3-chloropr...	16.178	75	11186	54.32	ug/L	83
99) 1,3,5-trichlorobenzene	16.993	180	100911	45.54	ug/L	95
100) 1,2,4-trichlorobenzene	17.550	180	56979	50.26	ug/L	98
101) hexachlorobutadiene	17.850	225	44428	53.54	ug/L	98
102) naphthalene	17.826	128	84650	49.75	ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	56979	50.26	ug/L	99

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

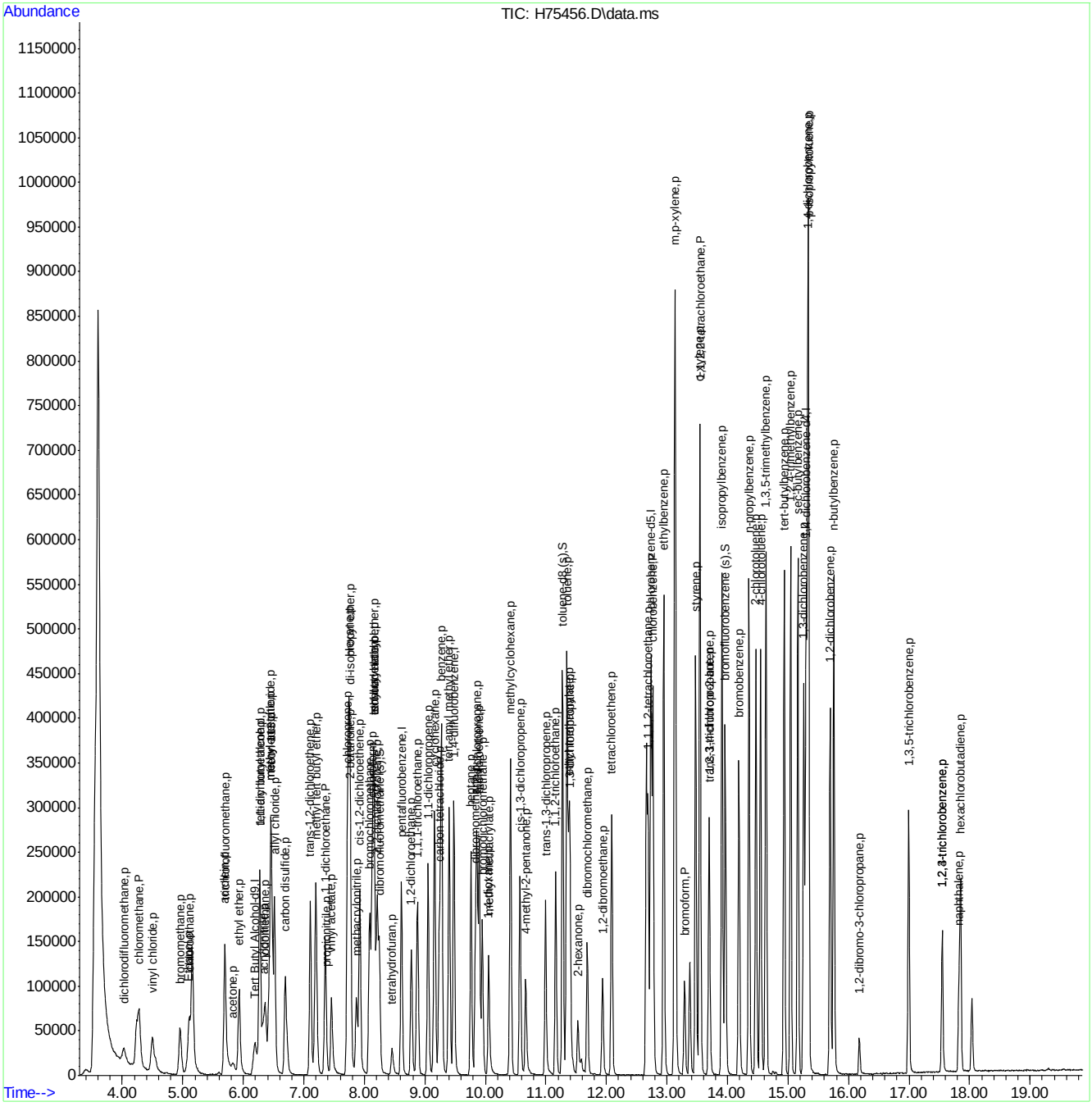
7.4.2

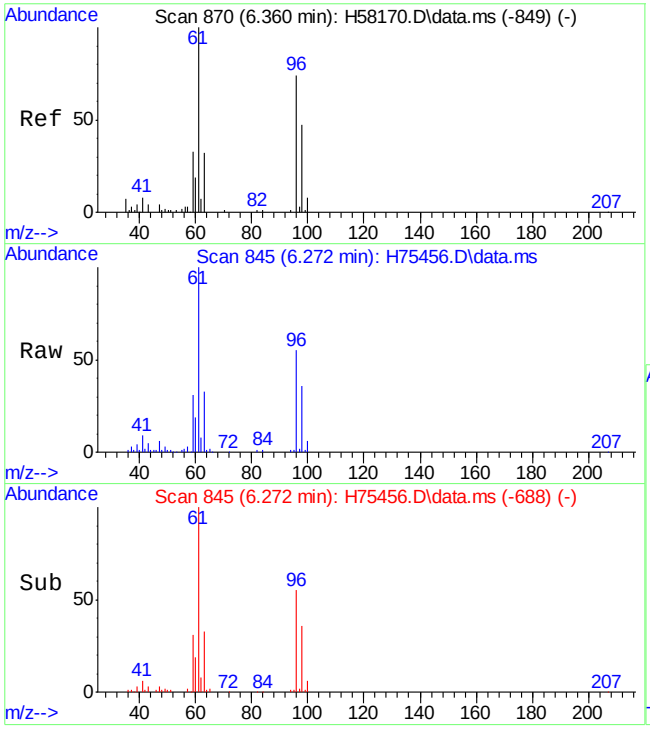
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:37:26 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

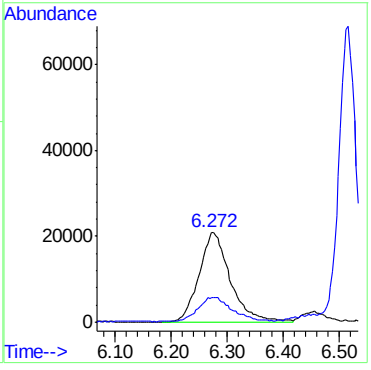


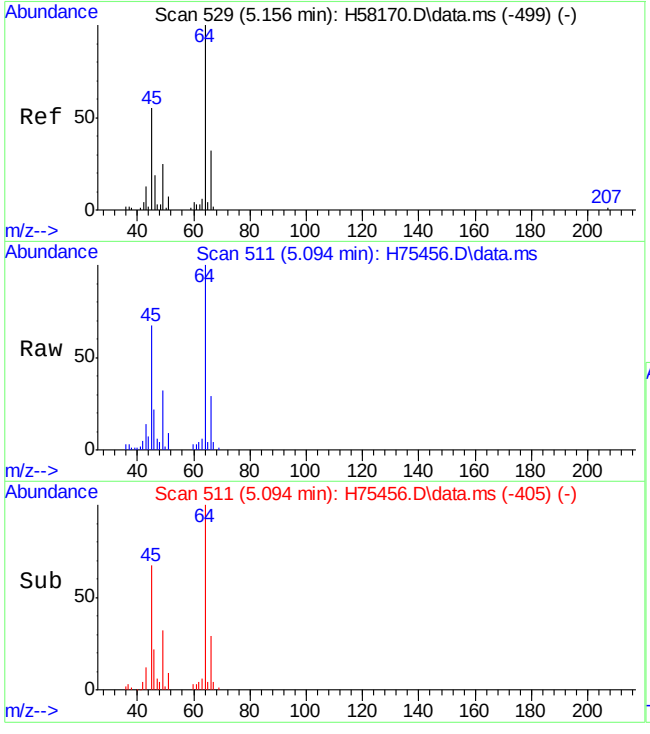


#2
tertiary butyl alcohol
Concen: 506.21 ug/L
RT: 6.272 min Scan# 845
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 59 Resp: 81804

Ion	Ratio	Lower	Upper
59	100		
41	26.3	0.0	57.4

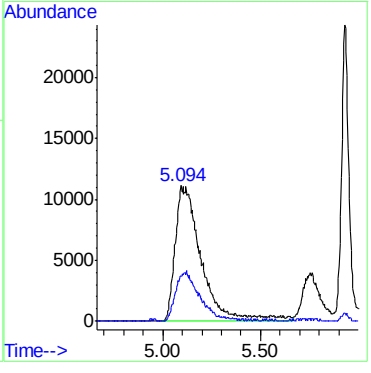


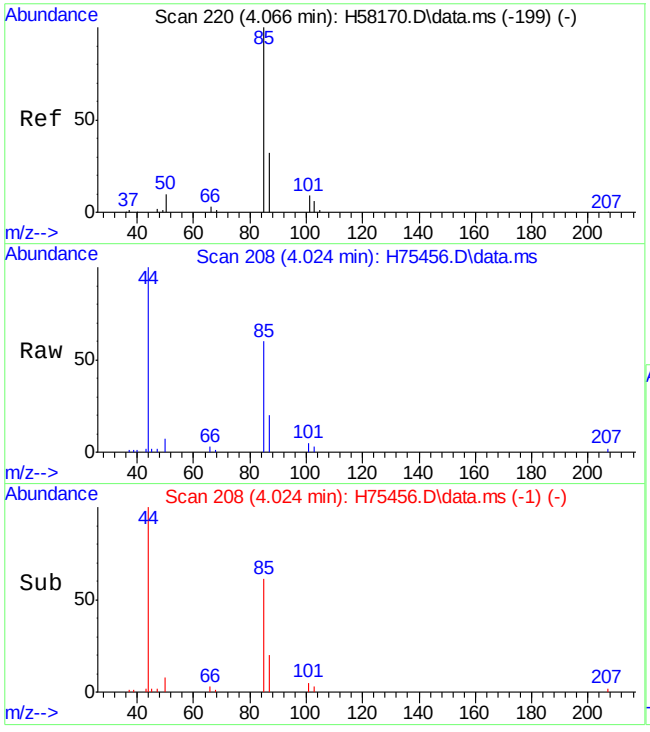


#3
Ethanol
Concen: 4839.03 ug/L
RT: 5.094 min Scan# 511
Delta R.T. -0.026 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 45 Resp: 102953

Ion	Ratio	Lower	Upper
45	100		
46	33.5	27.7	41.5

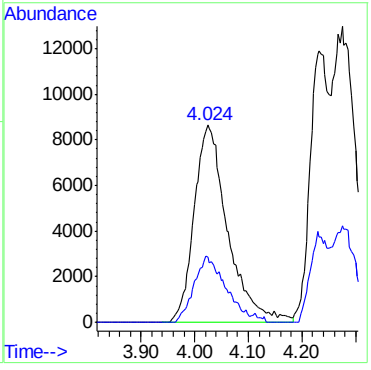


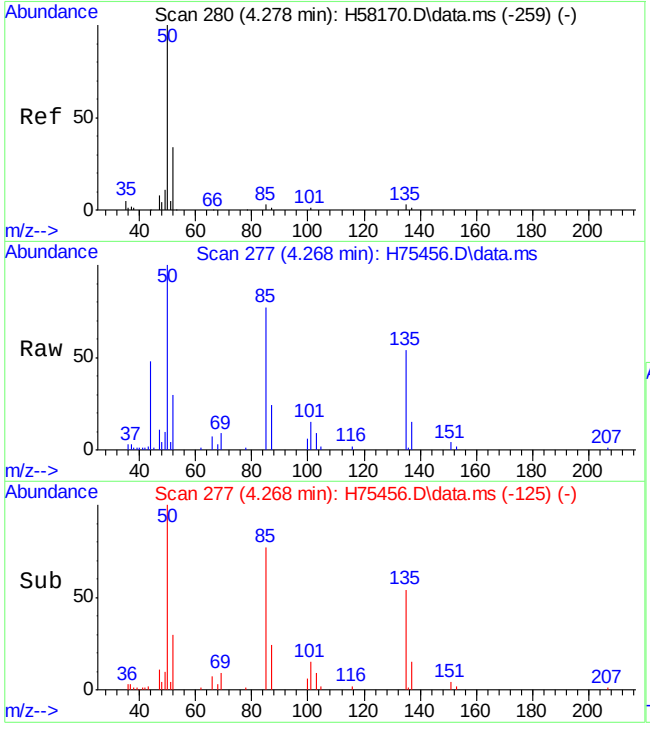


#5
dichlorodifluoromethane
Concen: 21.61 ug/L
RT: 4.024 min Scan# 208
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 85 Resp: 37500

Ion	Ratio	Lower	Upper
85	100		
87	33.1	1.5	61.5

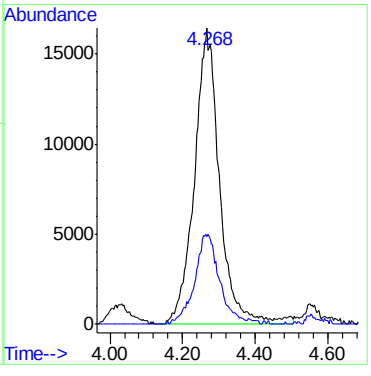




#6
chloromethane
Concen: 52.77 ug/L
RT: 4.268 min Scan# 277
Delta R.T. 0.005 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 50 Resp: 79111

Ion	Ratio	Lower	Upper
50	100		
52	29.6	1.7	61.7



7.4.2

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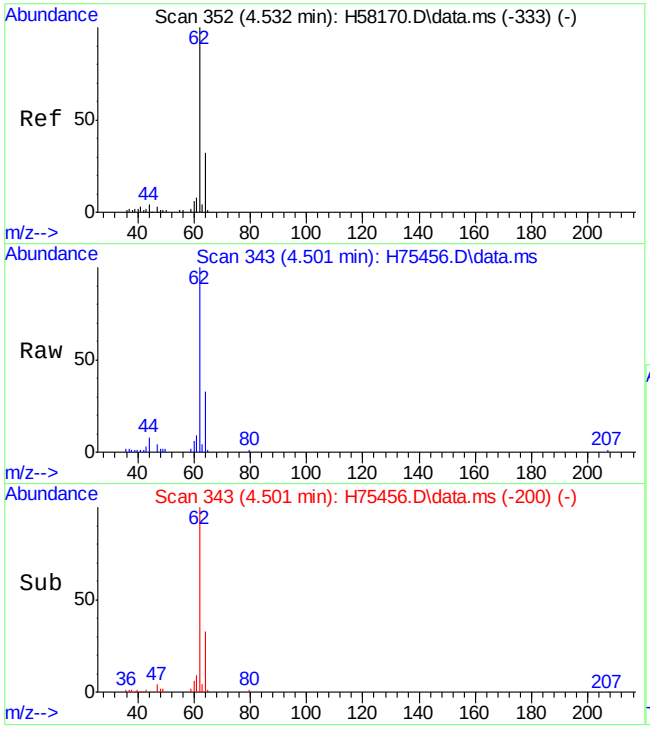
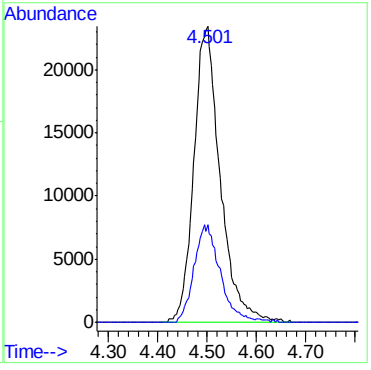
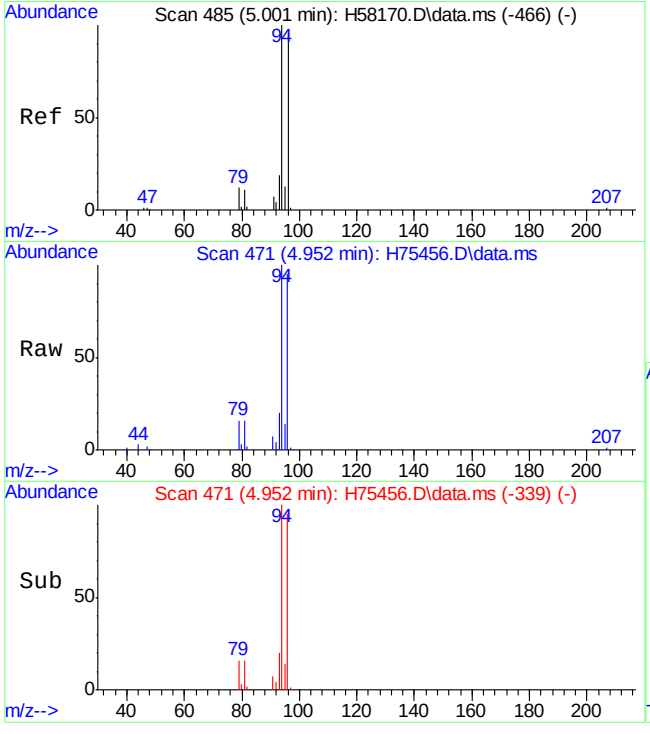


#7
vinyl chloride
Concen: 52.22 ug/L
RT: 4.501 min Scan# 343
Delta R.T. 0.005 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 62 Resp: 86939

Ion	Ratio	Lower	Upper
62	100		
64	32.9	3.2	63.2

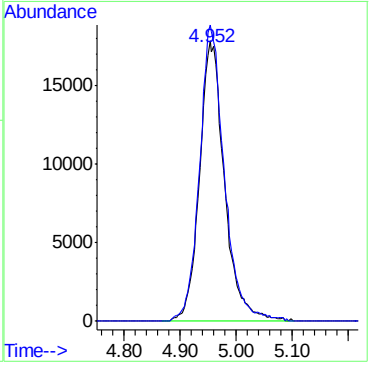


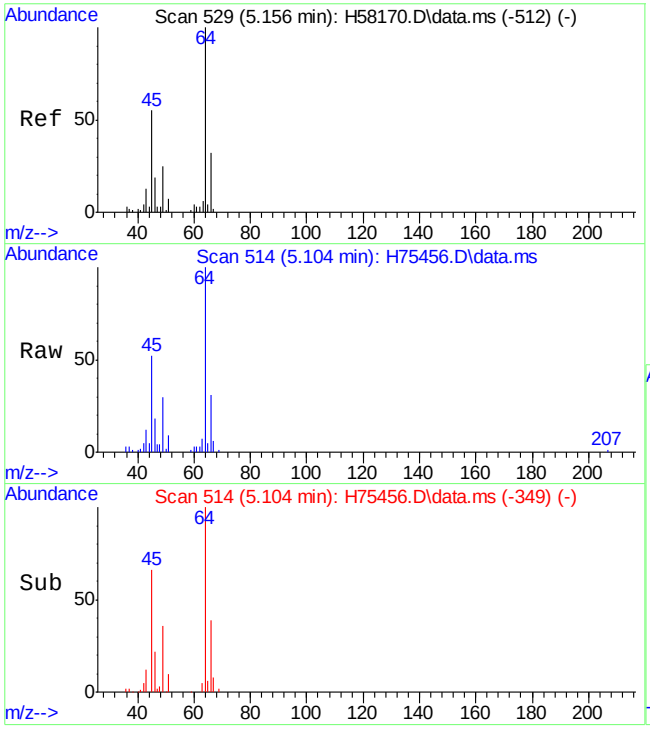


#8
bromomethane
Concen: 55.74 ug/L
RT: 4.952 min Scan# 471
Delta R.T. 0.005 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 96 Resp: 55206

Ion	Ratio	Lower	Upper
96	100		
94	105.7	72.8	132.8

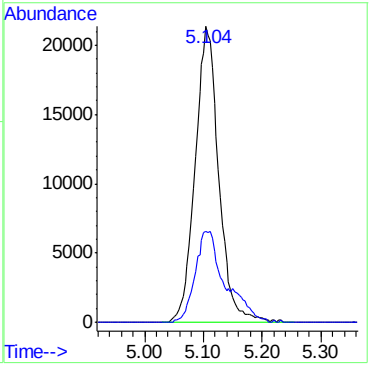


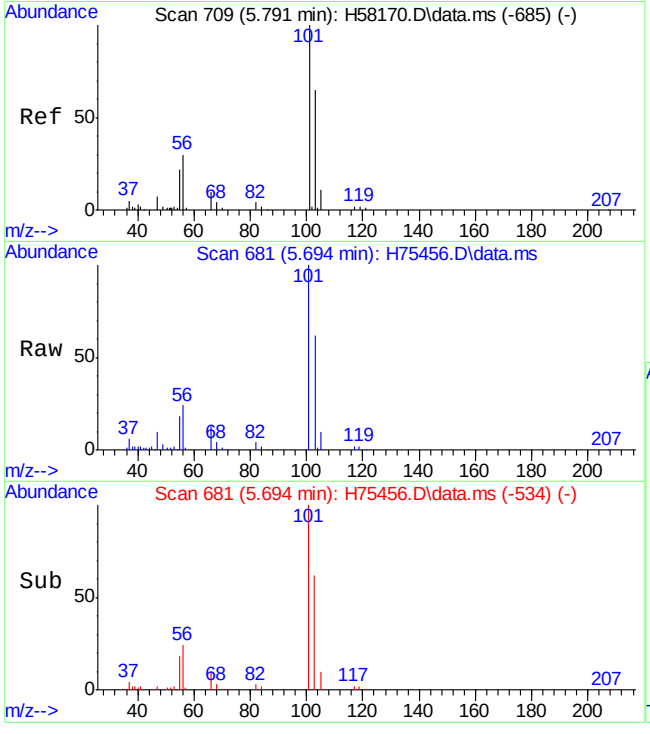


#9
chloroethane
Concen: 58.31 ug/L
RT: 5.104 min Scan# 514
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 64 Resp: 59351

Ion	Ratio	Lower	Upper
64	100		
66	30.6	0.3	60.3

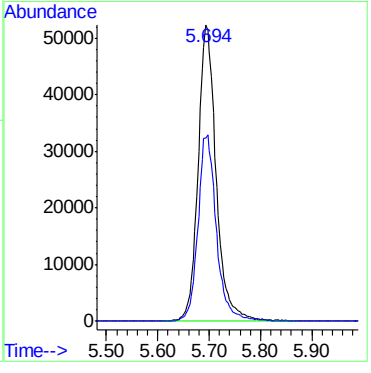




#11
trichlorofluoromethane
Concen: 51.01 ug/L
RT: 5.694 min Scan# 681
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:101 Resp: 127454

Ion	Ratio	Lower	Upper
101	100		
103	61.7	33.5	93.5



7.4.2

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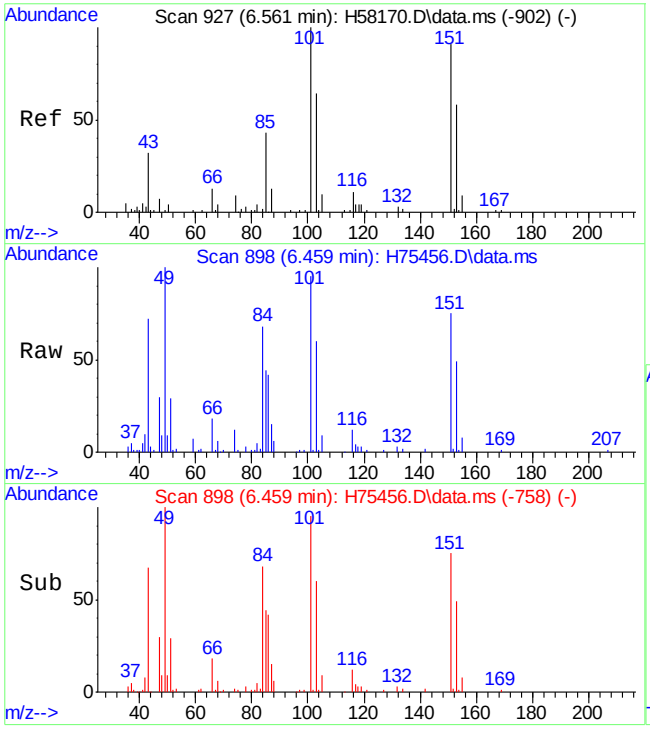
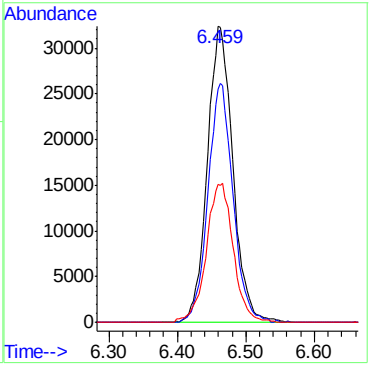
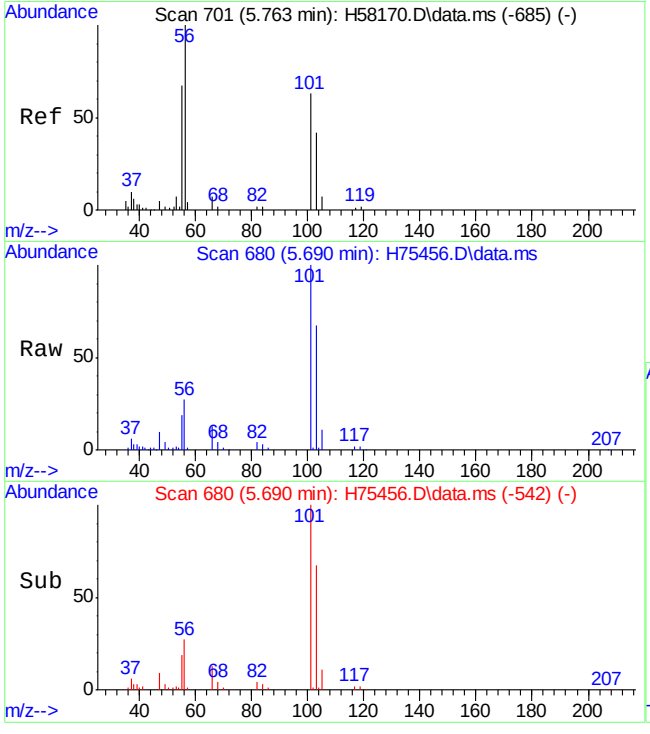


#12
freon-113
Concen: 52.73 ug/L
RT: 6.459 min Scan# 898
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:101 Resp: 83566

Ion	Ratio	Lower	Upper
101	100		
151	78.6	57.8	117.8
85	46.6	10.8	70.8

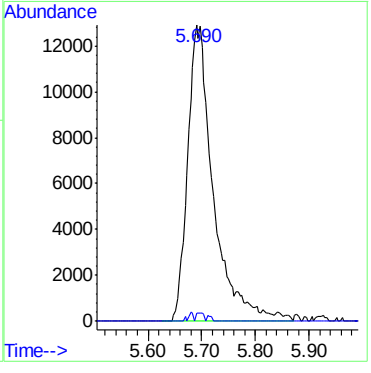


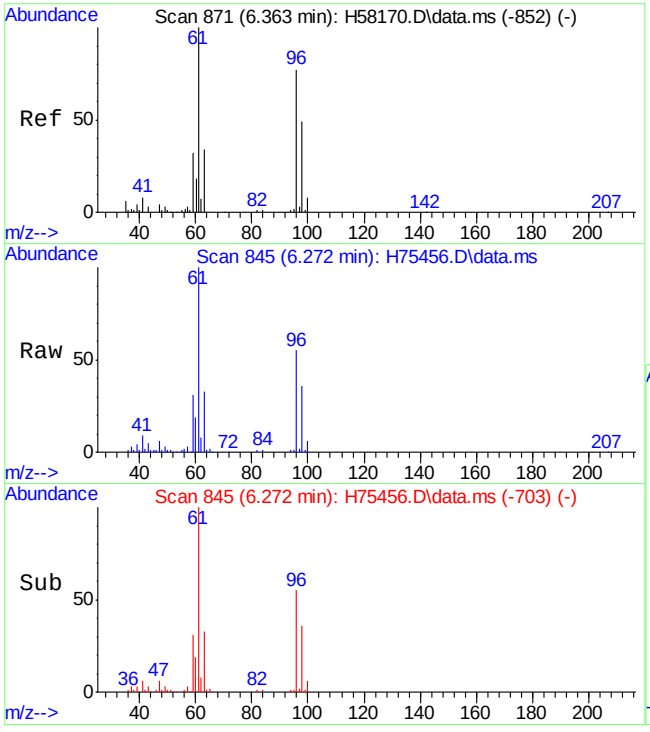


#13
acrolein
Concen: 599.92 ug/L
RT: 5.690 min Scan# 680
Delta R.T. -0.013 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 56 Resp: 43016

Ion	Ratio	Lower	Upper
56	100		
52	2.8	0.0	32.7

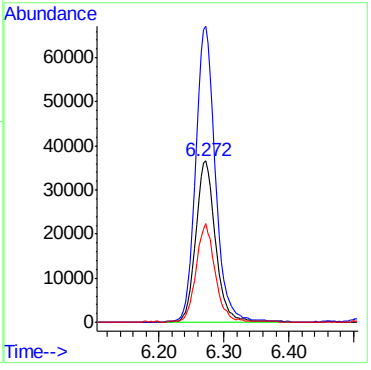


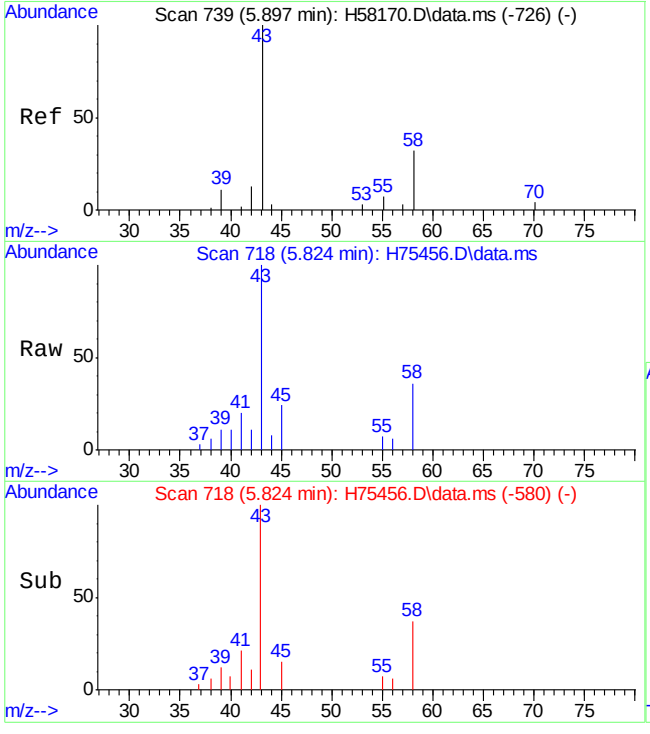


#14
1,1-dichloroethene
Concen: 57.28 ug/L
RT: 6.272 min Scan# 845
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 96 Resp: 78648

Ion	Ratio	Lower	Upper
96	100		
61	183.3	114.6	174.6#
63	61.1	18.4	78.4

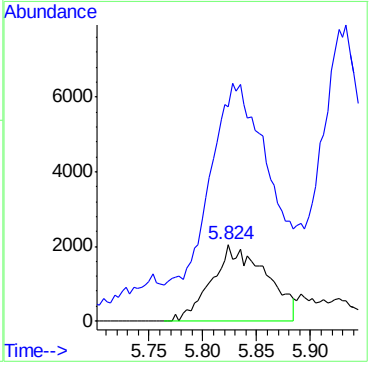




#15
acetone
Concen: 42.18 ug/L m
RT: 5.824 min Scan# 718
Delta R.T. -0.013 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 58 Resp: 7170

Ion	Ratio	Lower	Upper
58	100		
43	279.3	270.8	330.8



7.4.2

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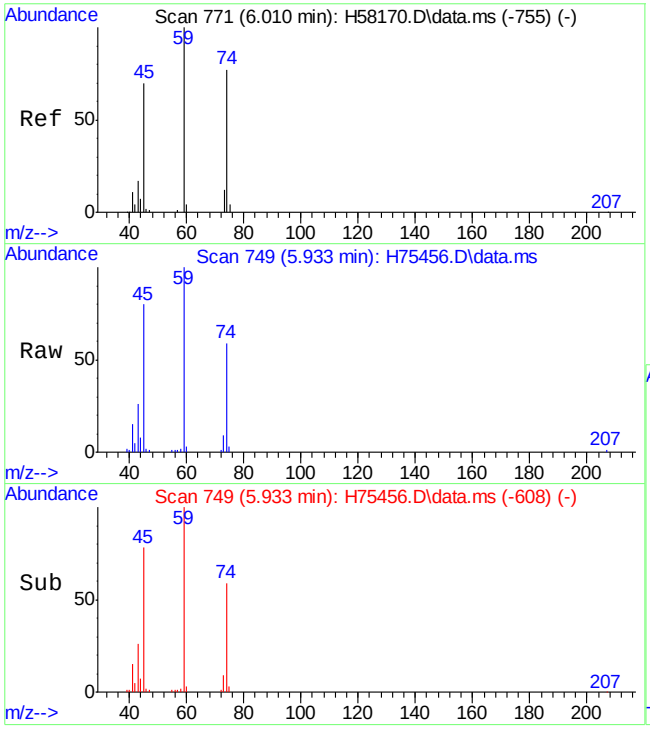
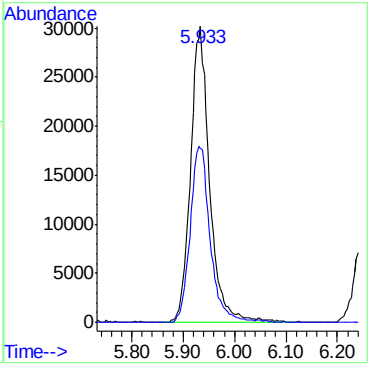
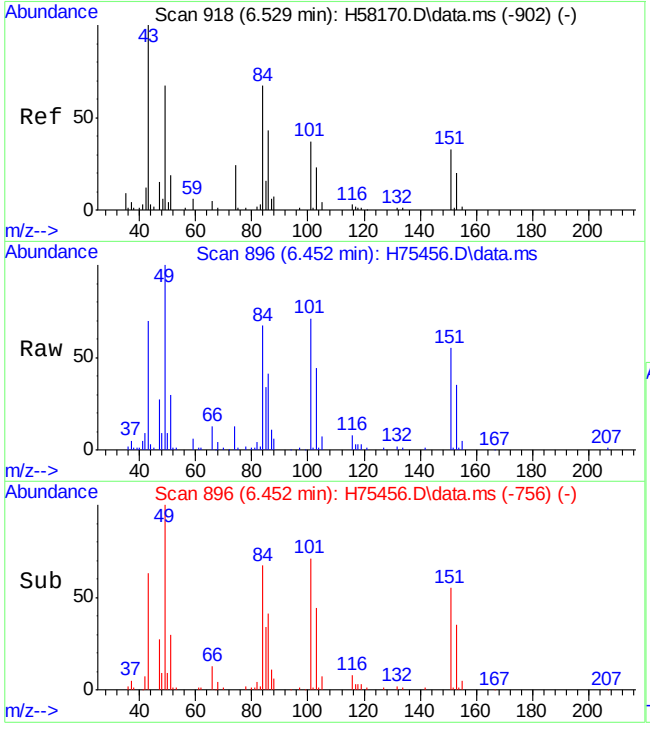


#16
ethyl ether
Concen: 56.42 ug/L
RT: 5.933 min Scan# 749
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 59 Resp: 77325

Ion	Ratio	Lower	Upper
59	100		
74	58.8	45.0	105.0

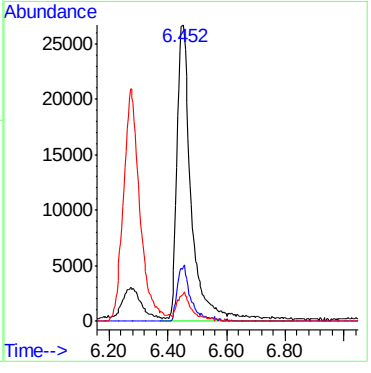




#17
methyl acetate
Concen: 59.30 ug/L
RT: 6.452 min Scan# 896
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

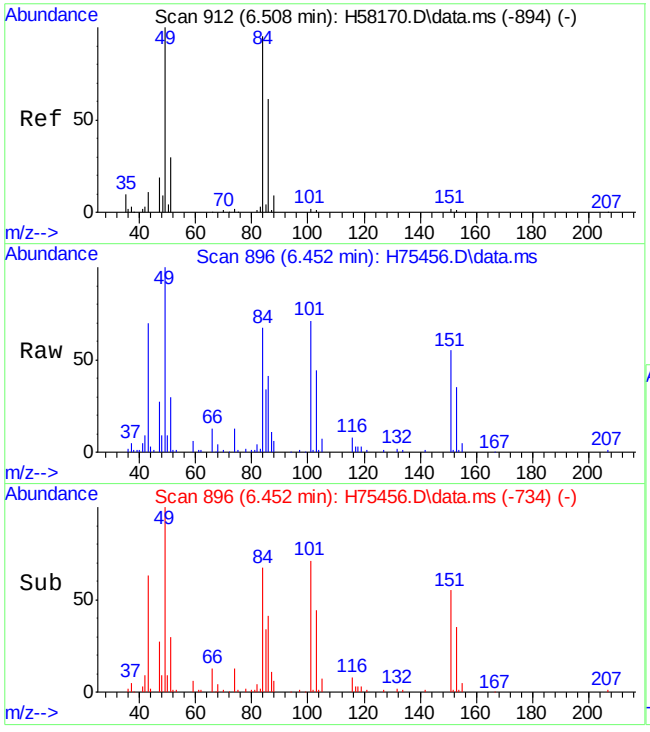
Tgt Ion: 43 Resp: 92583

Ion	Ratio	Lower	Upper
43	100		
74	18.2	5.4	45.4
59	9.3	0.0	33.3



7.4.2

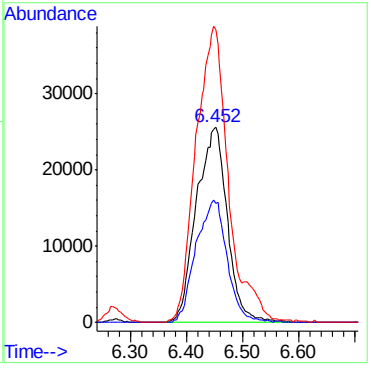
7

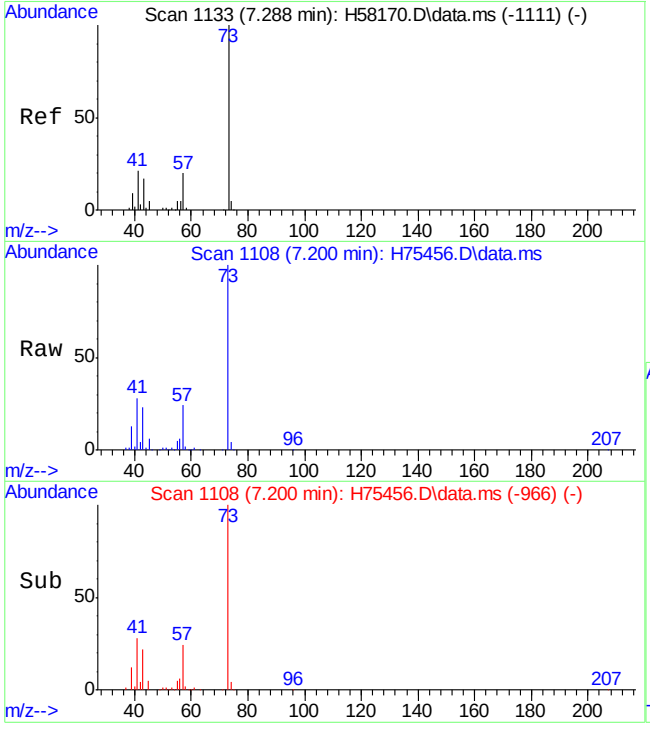


#18
methylene chloride
Concen: 56.38 ug/L
RT: 6.452 min Scan# 896
Delta R.T. 0.012 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 84 Resp: 97916

Ion	Ratio	Lower	Upper
84	100		
86	60.9	28.8	88.8
49	149.7	77.5	137.5#

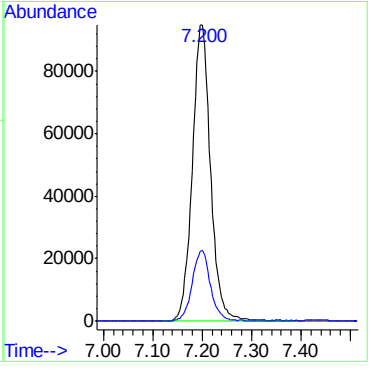


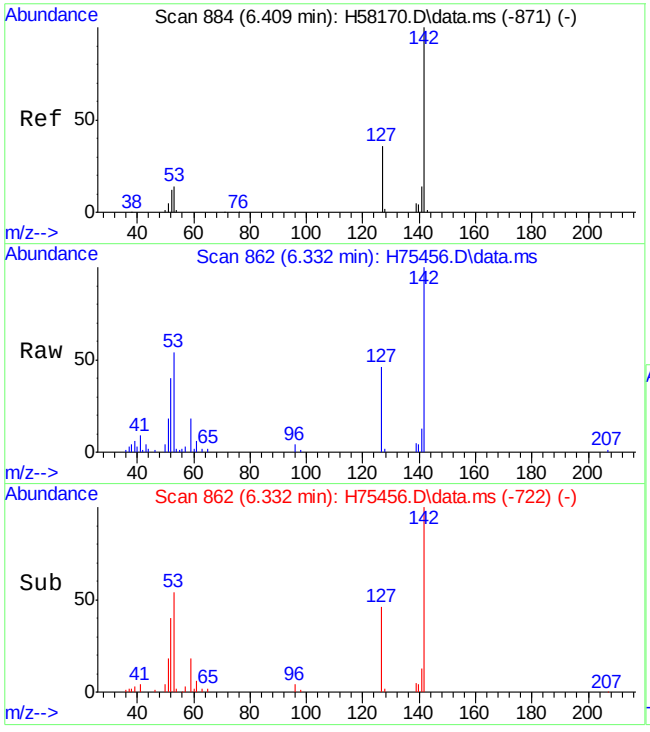


#19
methyl tert butyl ether
Concen: 56.83 ug/L
RT: 7.200 min Scan# 1108
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 73 Resp: 242573

Ion	Ratio	Lower	Upper
73	100		
57	23.9	0.0	48.6

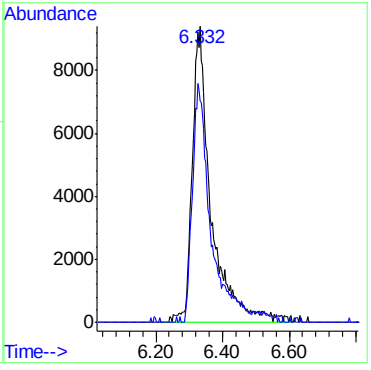


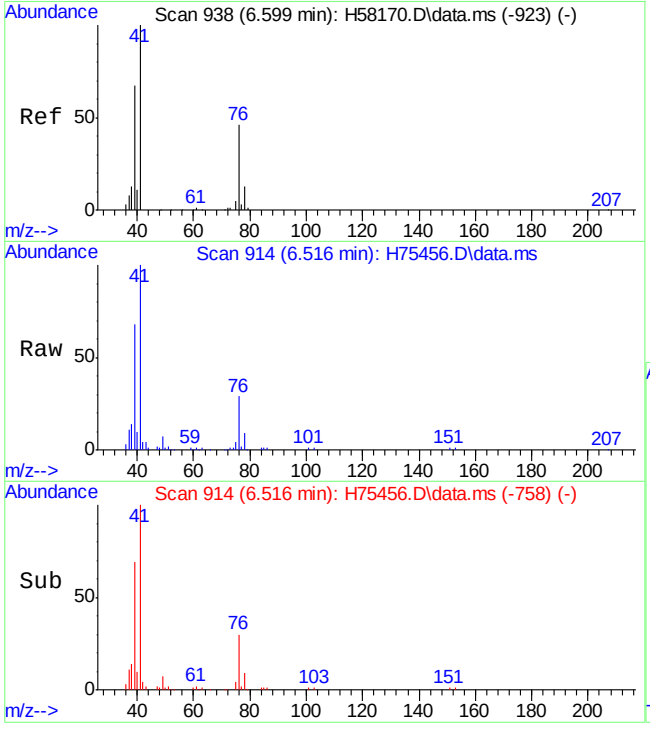


#20
acrylonitrile
Concen: 59.31 ug/L
RT: 6.332 min Scan# 862
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 53 Resp: 37232

Ion	Ratio	Lower	Upper
53	100		
52	74.6	54.8	114.8

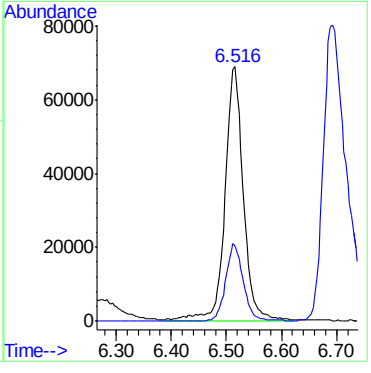




#21
allyl chloride
Concen: 56.32 ug/L m
RT: 6.516 min Scan# 914
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

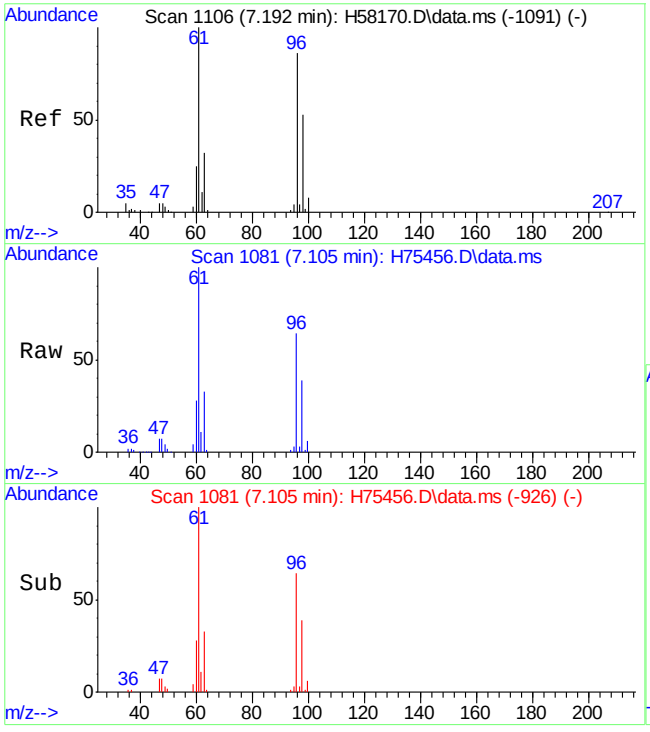
Tgt Ion: 41 Resp: 159642

Ion	Ratio	Lower	Upper
41	100		
76	29.4	7.8	67.8



7.4.2

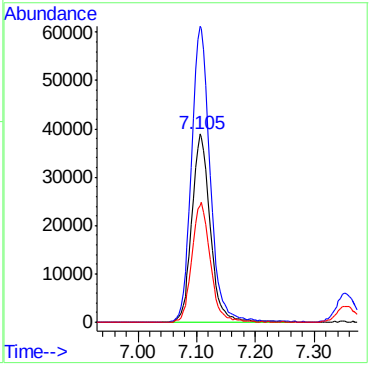
7

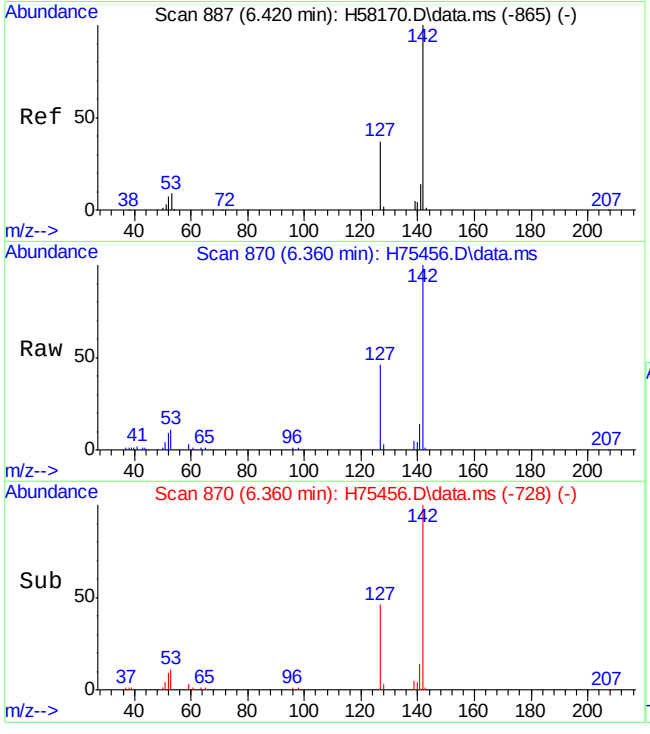


#22
trans-1,2-dichloroethene
Concen: 55.29 ug/L
RT: 7.105 min Scan# 1081
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 96 Resp: 84564

Ion	Ratio	Lower	Upper
96	100		
61	157.2	99.9	159.9
98	61.7	34.7	94.7

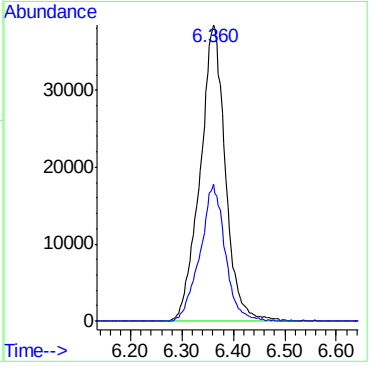


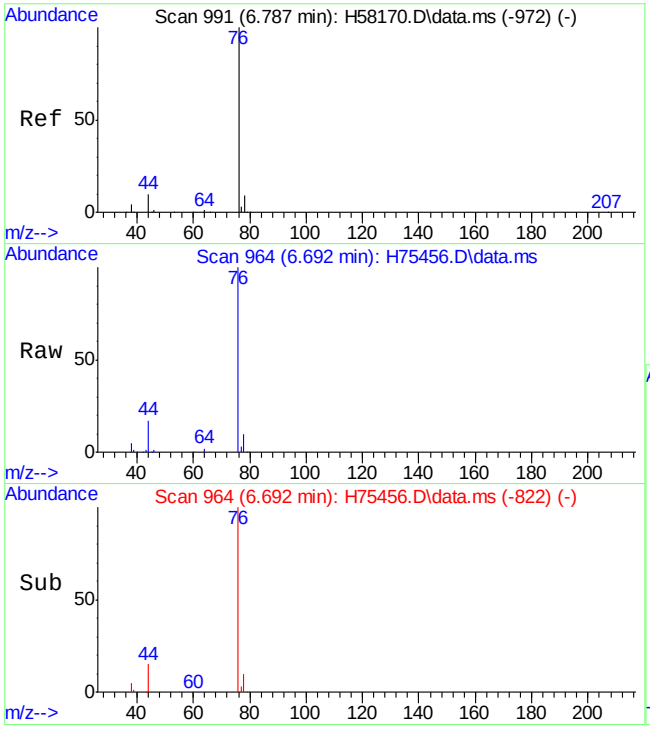


#23
iodomethane
Concen: 53.45 ug/L
RT: 6.360 min Scan# 870
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:142 Resp: 131397

Ion	Ratio	Lower	Upper
142	100		
127	46.2	20.4	80.4

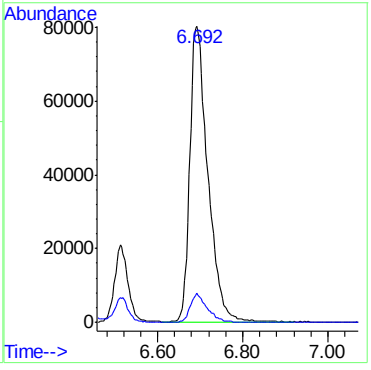


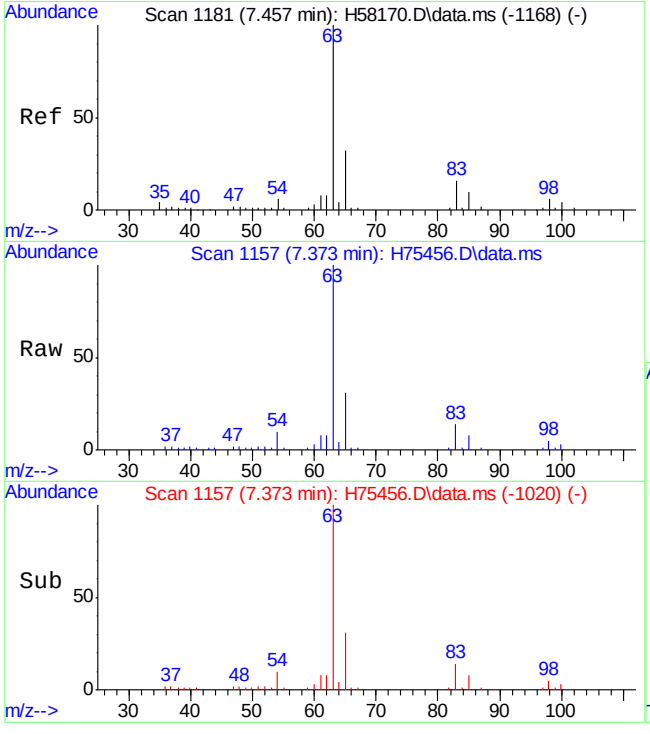


#24
carbon disulfide
Concen: 47.29 ug/L
RT: 6.692 min Scan# 964
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 76 Resp: 237360

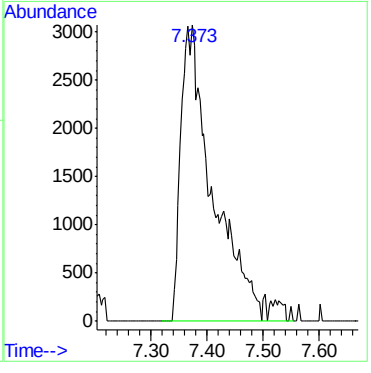
Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	40.1

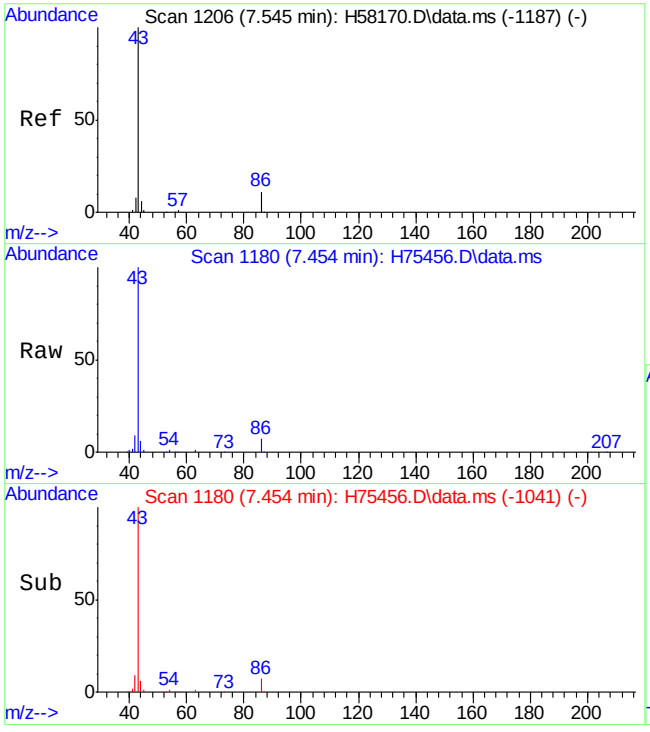




#25
propionitrile
Concen: 54.22 ug/L
RT: 7.373 min Scan# 1157
Delta R.T. -0.016 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 54 Resp: 12514

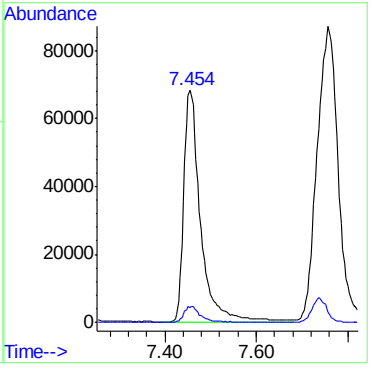


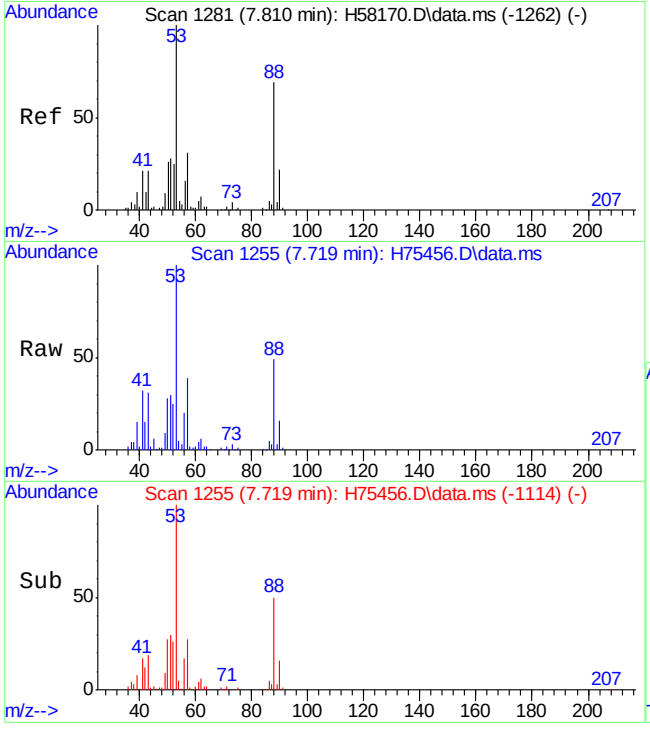


#26
vinyl acetate
Concen: 58.80 ug/L
RT: 7.454 min Scan# 1180
Delta R.T. -0.009 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 43 Resp: 177040

Ion	Ratio	Lower	Upper
43	100		
86	6.5	0.0	39.7

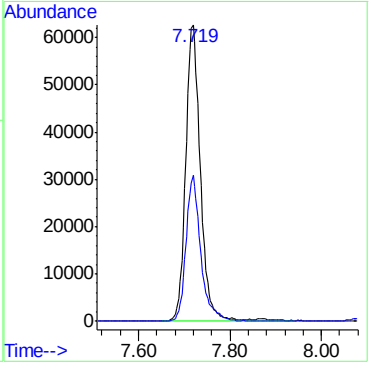


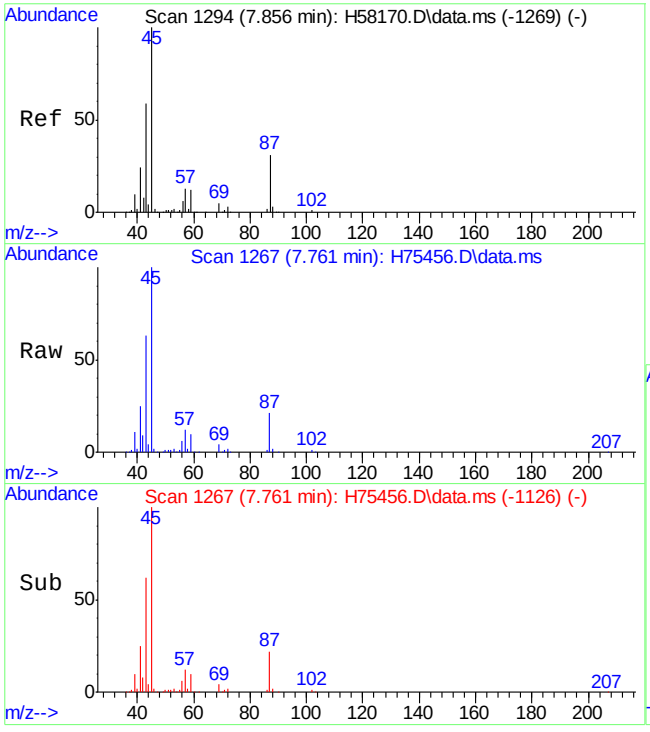


#27
chloroprene
Concen: 53.18 ug/L
RT: 7.719 min Scan# 1255
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 53 Resp: 140567

Ion	Ratio	Lower	Upper
53	100		
88	49.4	19.0	79.0

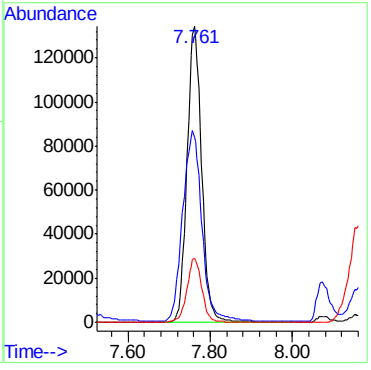


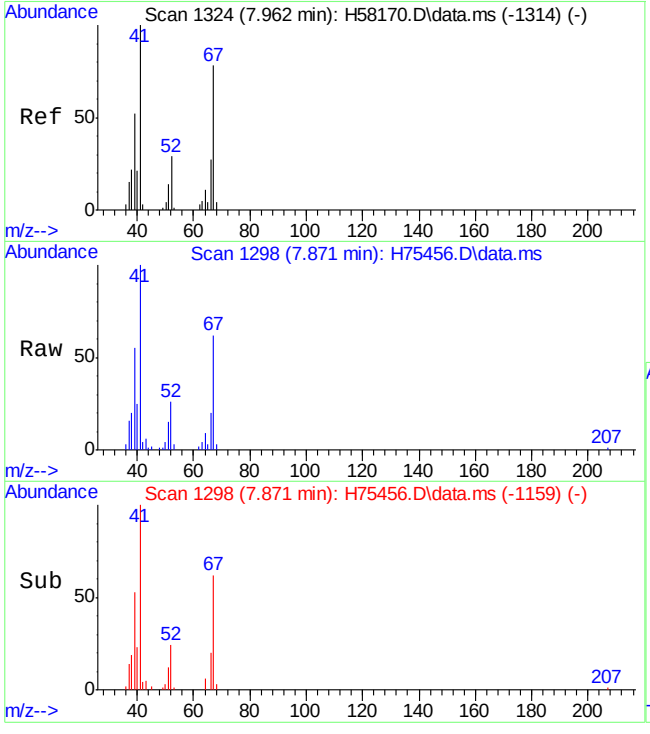


#28
di-isopropyl ether
Concen: 58.33 ug/L
RT: 7.761 min Scan# 1267
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 45 Resp: 328690

Ion	Ratio	Lower	Upper
45	100		
43	62.3	39.0	99.0
87	21.5	2.5	62.5

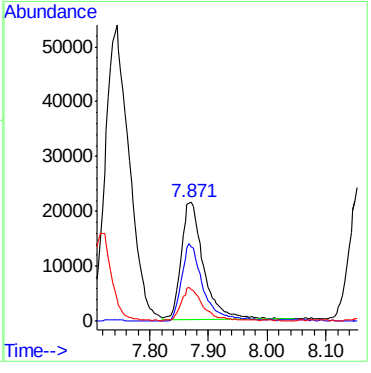




#29
methacrylonitrile
Concen: 52.87 ug/L
RT: 7.871 min Scan# 1298
Delta R.T. -0.009 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

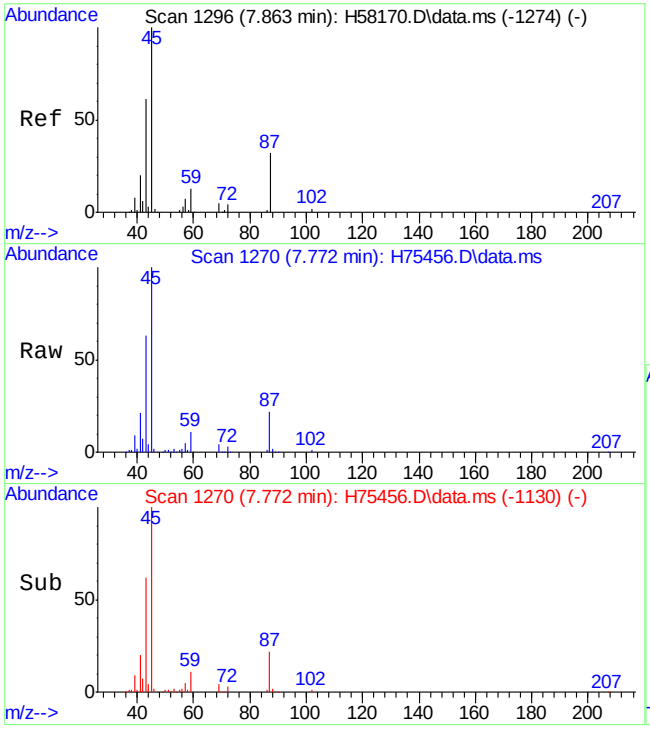
Tgt Ion: 41 Resp: 57252

Ion	Ratio	Lower	Upper
41	100		
67	63.1	28.1	88.1
52	26.7	0.0	59.4



7.4.2

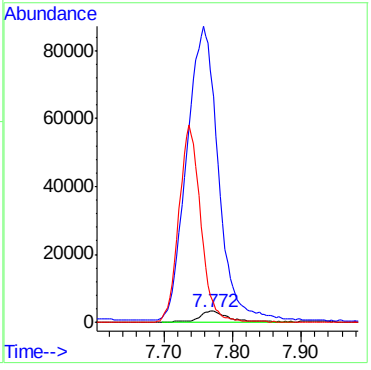
7

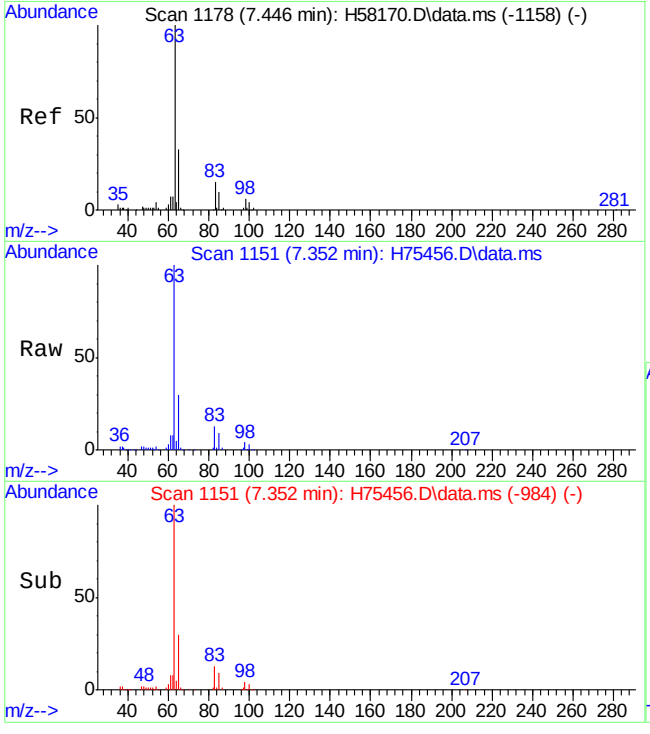


#30
2-butanone
Concen: 52.67 ug/L
RT: 7.772 min Scan# 1270
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 72 Resp: 10094

Ion	Ratio	Lower	Upper
72	100		
43	1992.3	1755.5	1815.5#
57	166.8	164.5	224.5

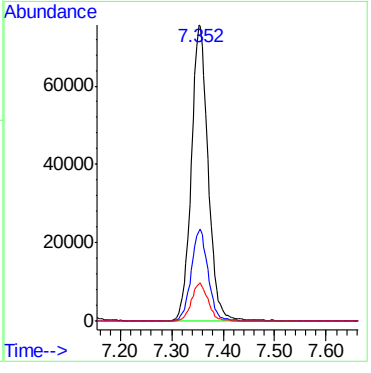


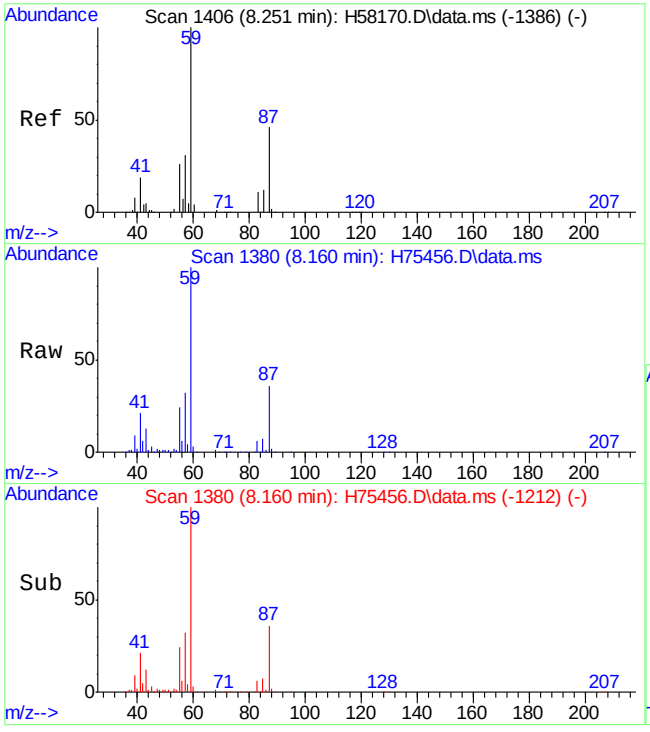


#31
1,1-dichloroethane
Concen: 54.92 ug/L
RT: 7.352 min Scan# 1151
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 63 Resp: 171867

Ion	Ratio	Lower	Upper
63	100		
65	30.4	2.1	62.1
83	12.6	0.0	47.3

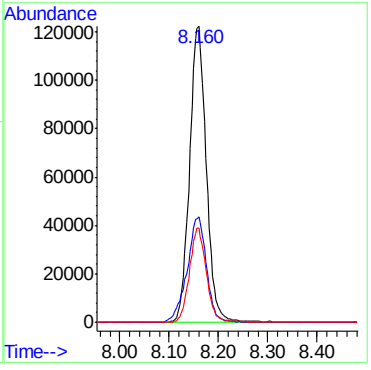


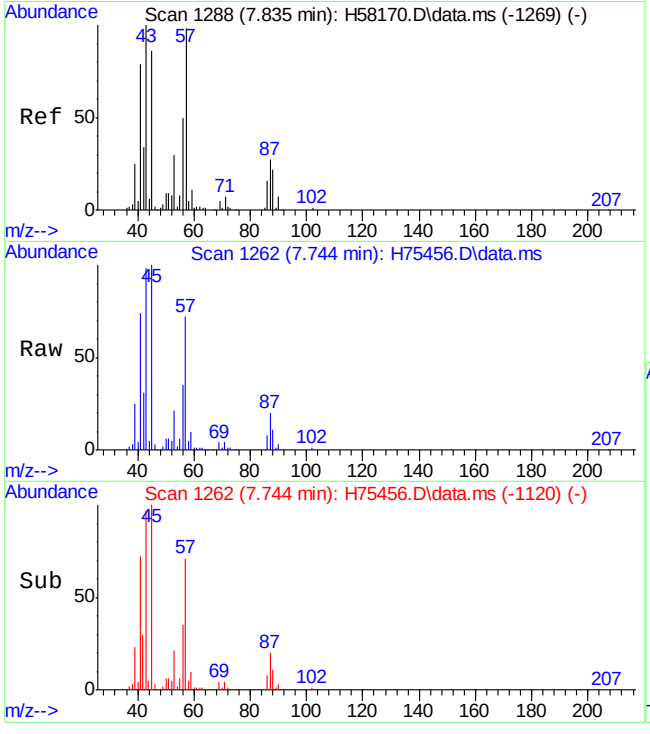


#32
tert-butyl ethyl ether
Concen: 54.90 ug/L
RT: 8.160 min Scan# 1380
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 59 Resp: 287719

Ion	Ratio	Lower	Upper
59	100		
87	35.6	13.5	73.5
57	31.9	0.0	58.1

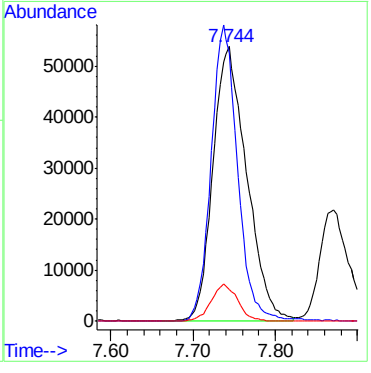


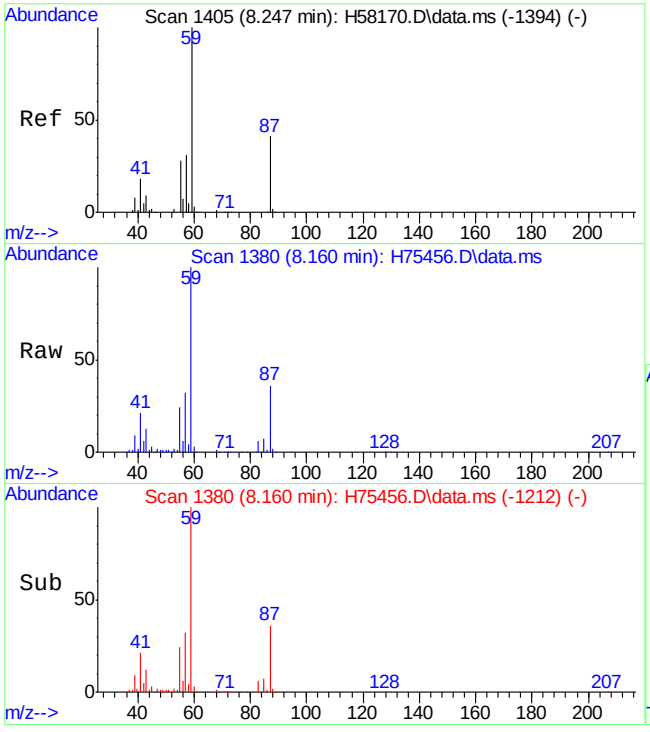


#33
Hexane
Concen: 53.22 ug/L
RT: 7.744 min Scan# 1262
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 41 Resp: 153049

Ion	Ratio	Lower	Upper
41	100		
57	84.6	60.5	90.7
86	10.5	10.4	15.6

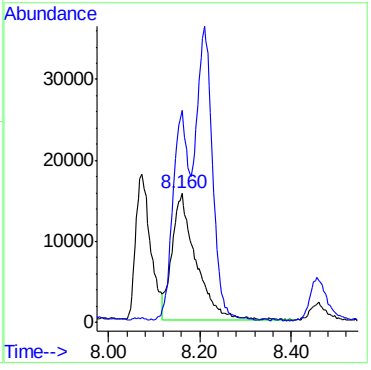


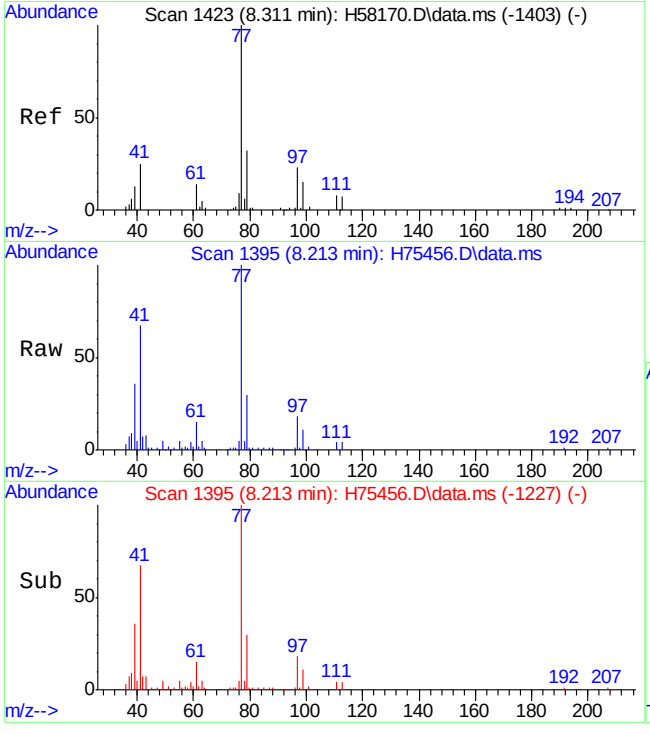


#34
isobutyl alcohol
Concen: 429.69 ug/L
RT: 8.160 min Scan# 1380
Delta R.T. 0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 43 Resp: 57832

Ion	Ratio	Lower	Upper
43	100		
41	165.7	115.6	175.6

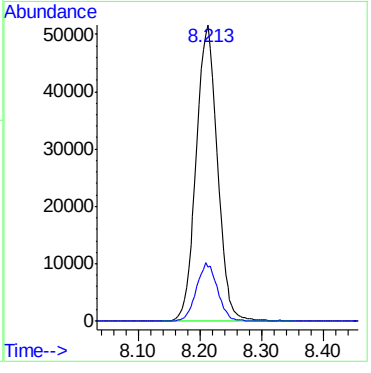


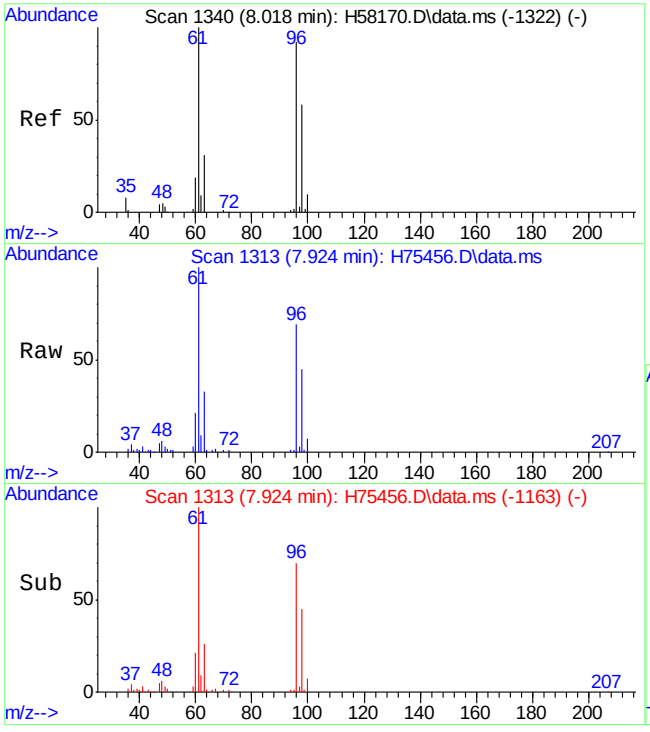


#35
2,2-dichloropropane
Concen: 53.21 ug/L
RT: 8.213 min Scan# 1395
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 77 Resp: 122545

Ion	Ratio	Lower	Upper
77	100		
97	18.2	0.0	51.6

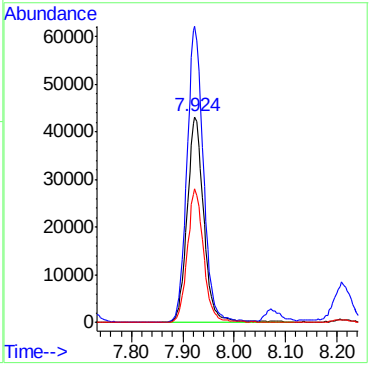


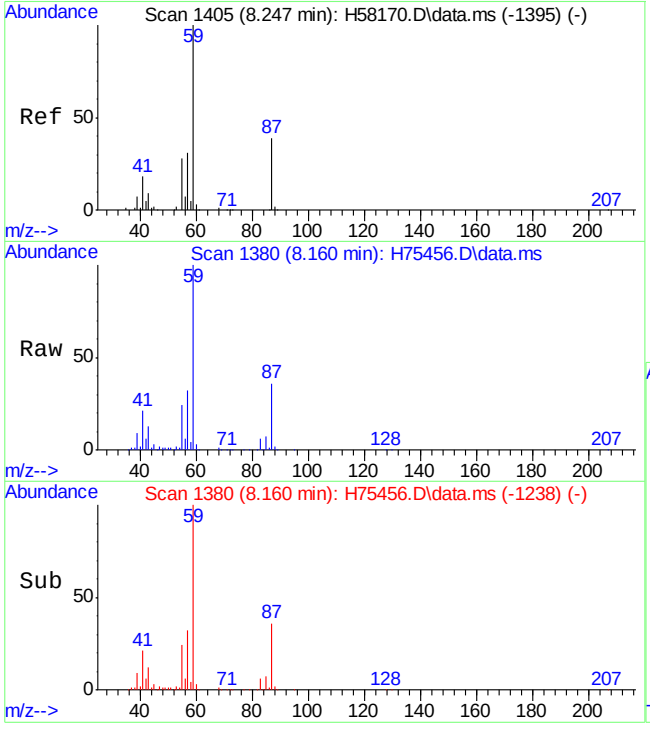


#36
cis-1,2-dichloroethene
Concen: 56.91 ug/L
RT: 7.924 min Scan# 1313
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 96 Resp: 95706

Ion	Ratio	Lower	Upper
96	100		
61	143.9	90.6	150.6
98	65.1	35.0	95.0

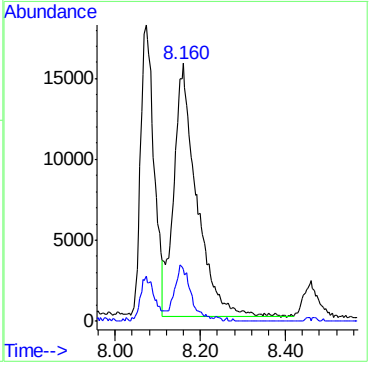




#37
ethyl acetate
Concen: 86.73 ug/L
RT: 8.160 min Scan# 1380
Delta R.T. 0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

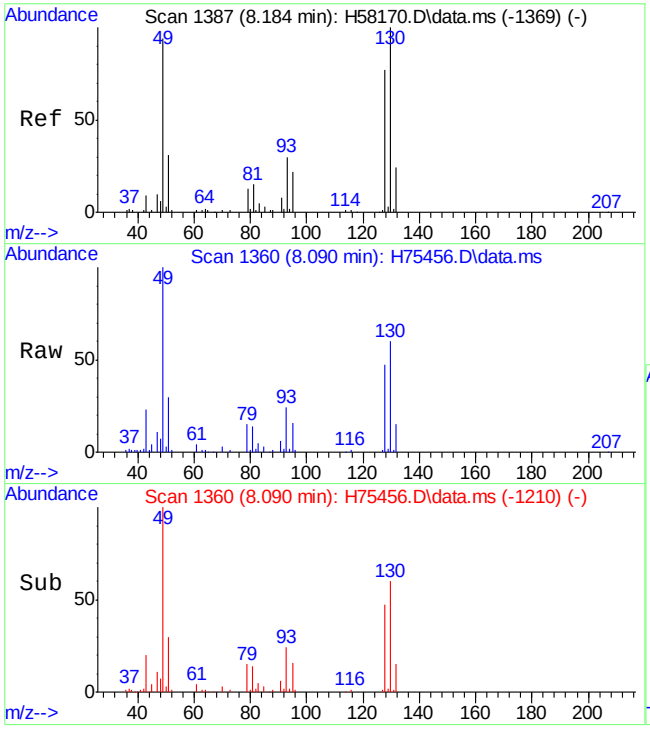
Tgt Ion: 43 Resp: 58693

Ion	Ratio	Lower	Upper
43	100		
45	20.5	0.0	51.5



7.4.2

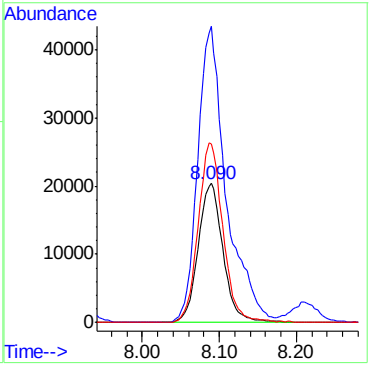
7

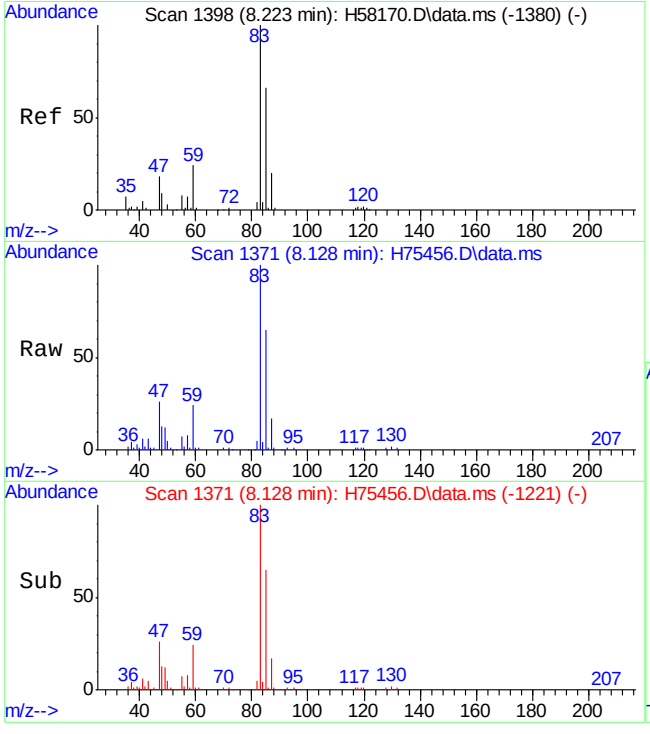


#38
bromochloromethane
Concen: 55.30 ug/L
RT: 8.090 min Scan# 1360
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:128 Resp: 45377

Ion	Ratio	Lower	Upper
128	100		
49	213.4	72.6	132.6#
130	128.8	102.2	162.2

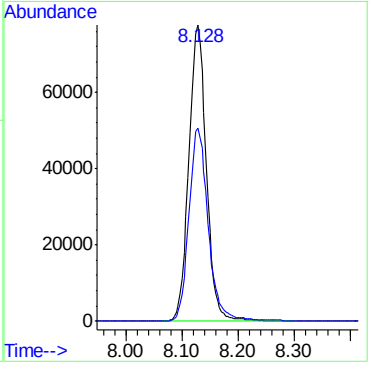


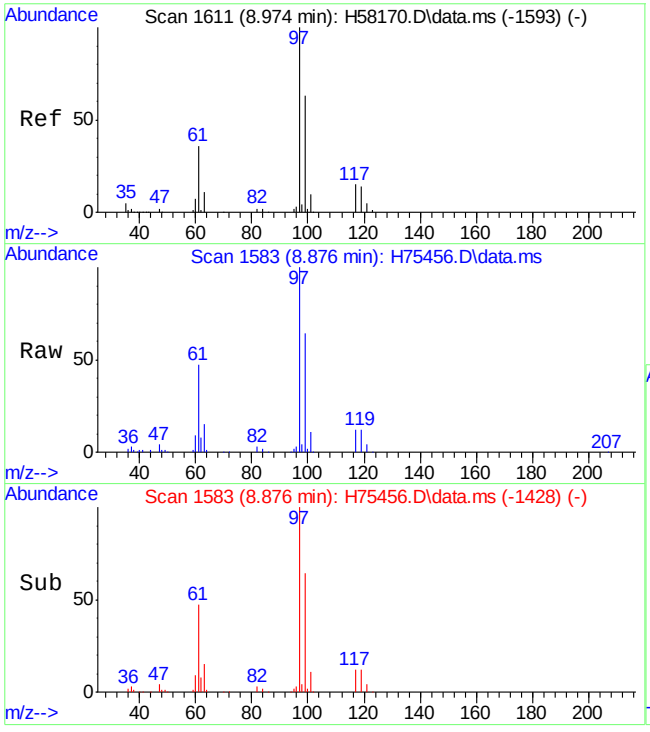


#39
chloroform
Concen: 55.92 ug/L
RT: 8.128 min Scan# 1371
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 83 Resp: 168187

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.0	95.0

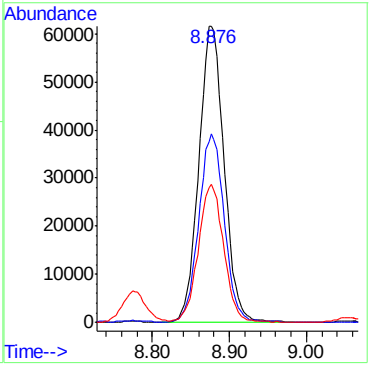


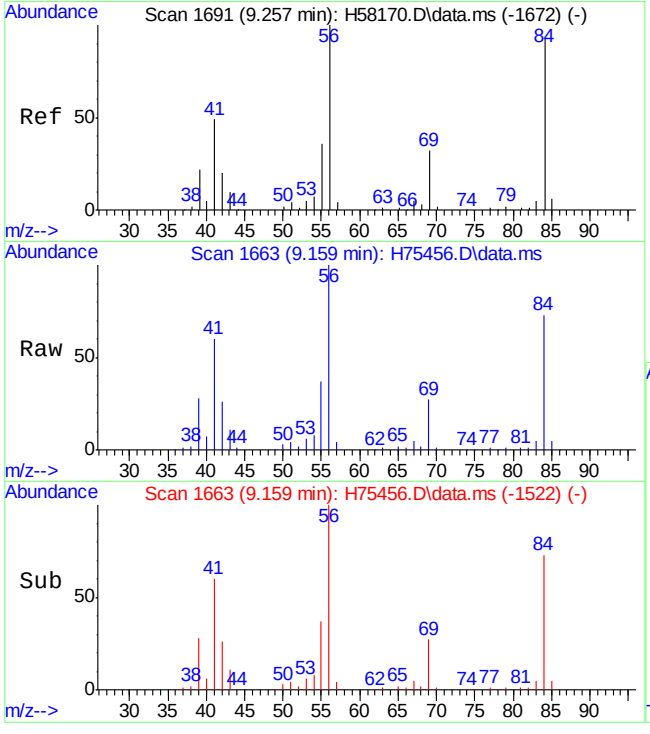


#41
1,1,1-trichloroethane
Concen: 58.36 ug/L
RT: 8.876 min Scan# 1583
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 97 Resp: 139697

Ion	Ratio	Lower	Upper
97	100		
99	63.6	32.9	92.9
61	46.6	5.4	65.4

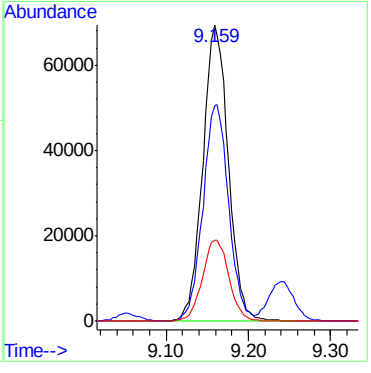


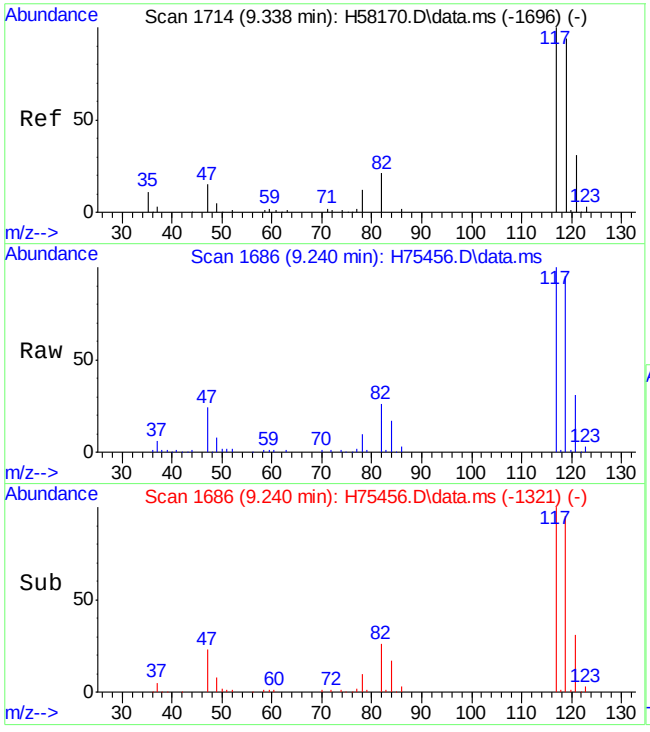


#43
cyclohexane
Concen: 49.82 ug/L
RT: 9.159 min Scan# 1663
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 56 Resp: 150029

Ion	Ratio	Lower	Upper
56	100		
84	72.9	81.1	121.1#
69	27.4	13.4	53.4

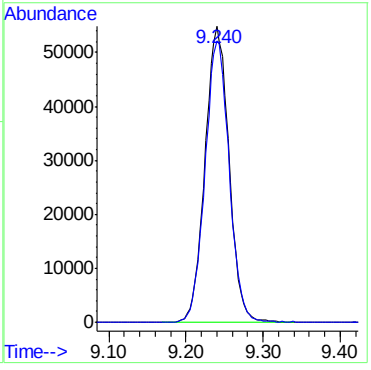


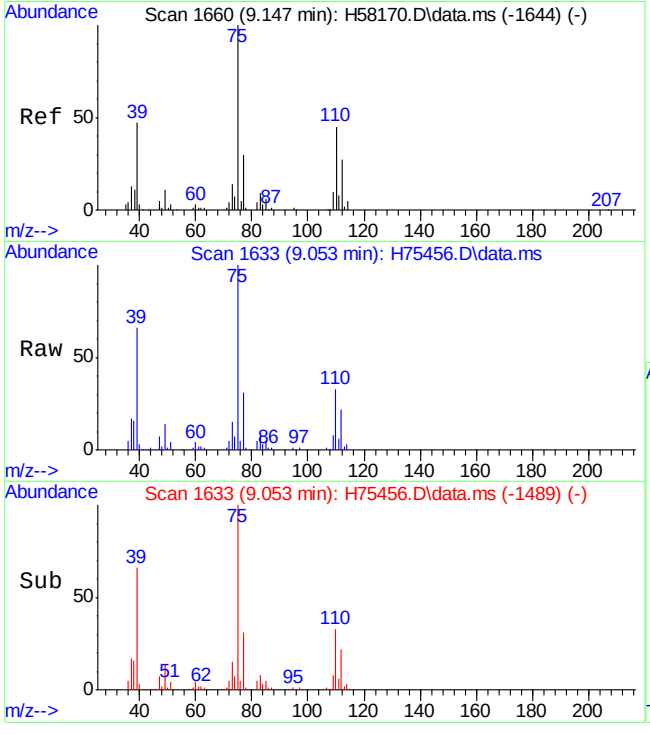


#44
carbon tetrachloride
Concen: 59.37 ug/L
RT: 9.240 min Scan# 1686
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:117 Resp: 118205

Ion	Ratio	Lower	Upper
117	100		
119	95.1	69.0	129.0

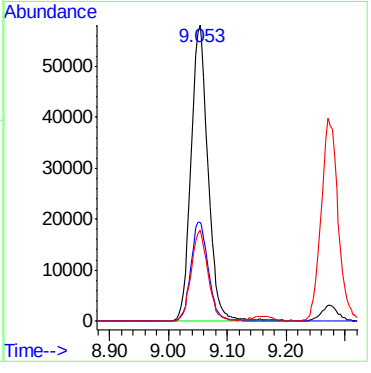




#45
1,1-dichloropropene
Concen: 52.98 ug/L
RT: 9.053 min Scan# 1633
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 75 Resp: 116335

Ion	Ratio	Lower	Upper
75	100		
110	33.3	12.6	72.6
77	30.8	1.8	61.8



7.4.2

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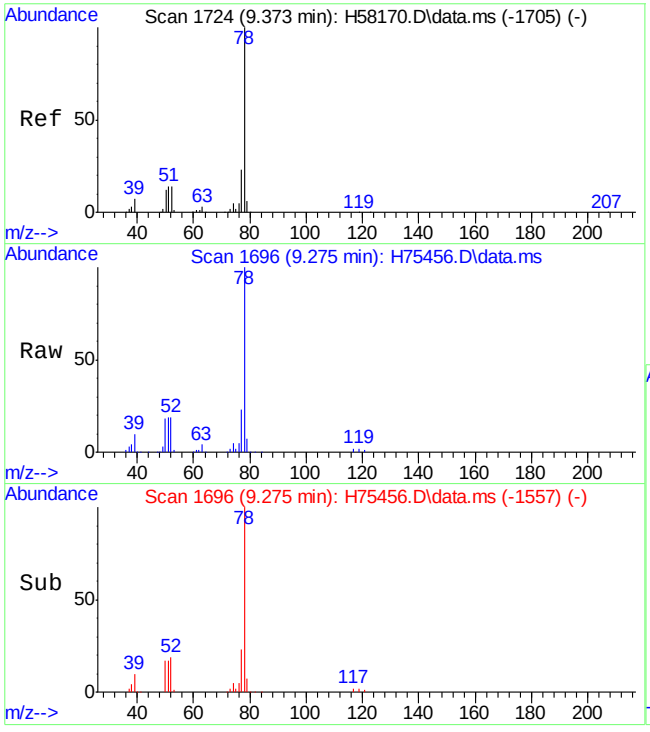
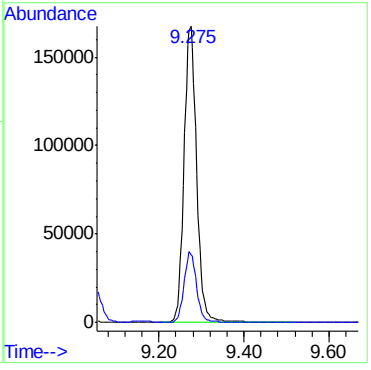
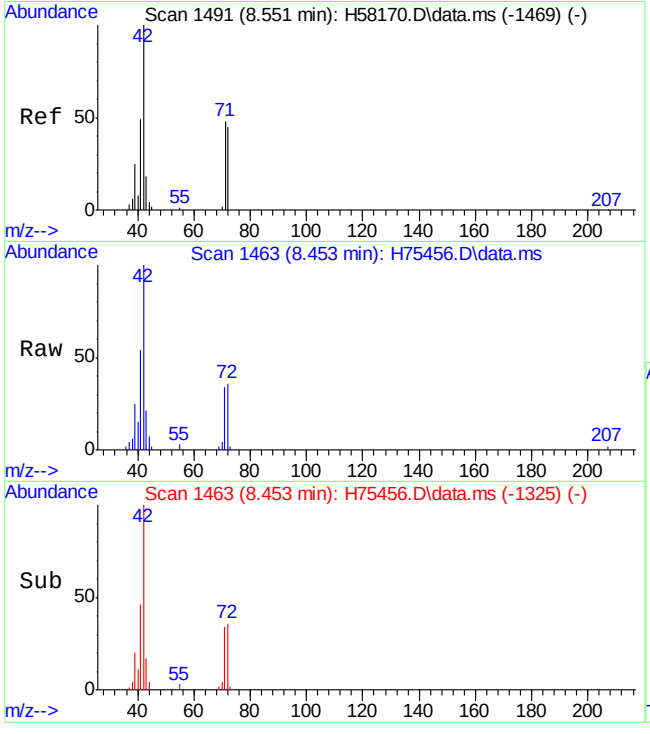


#46
benzene
Concen: 53.32 ug/L
RT: 9.275 min Scan# 1696
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 78 Resp: 344448

Ion	Ratio	Lower	Upper
78	100		
77	22.9	0.0	53.5

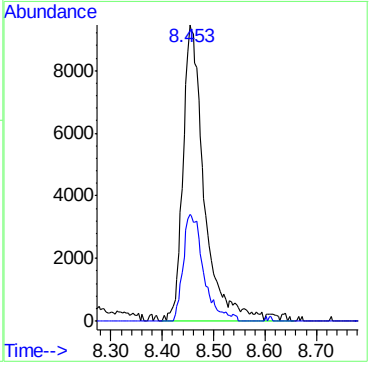




#47
tetrahydrofuran
Concen: 51.28 ug/L
RT: 8.453 min Scan# 1463
Delta R.T. -0.013 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 42 Resp: 27591

Ion	Ratio	Lower	Upper
42	100		
72	36.2	12.6	72.6



7.4.2

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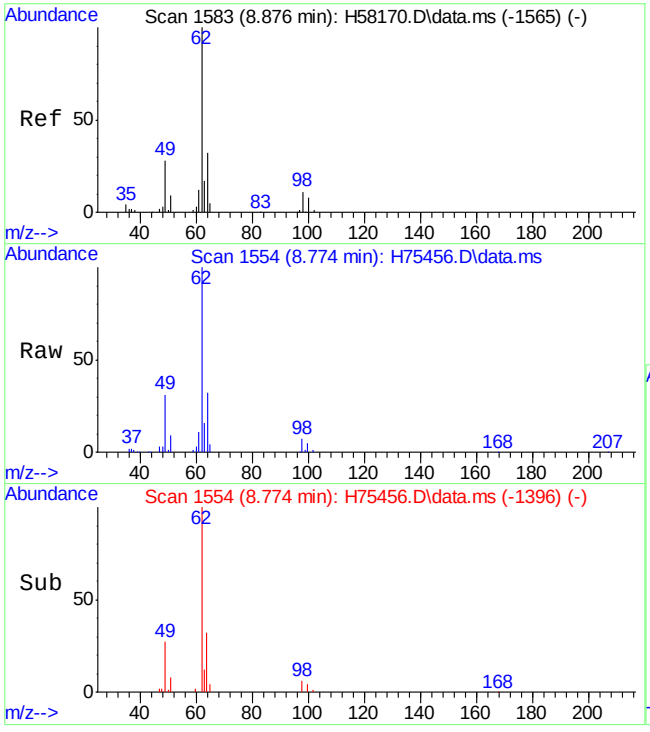
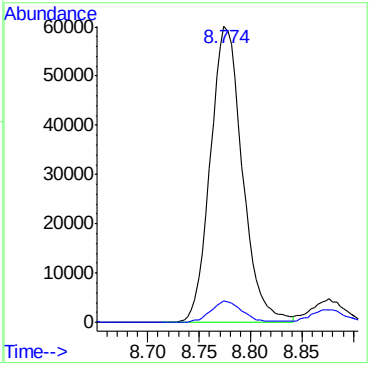
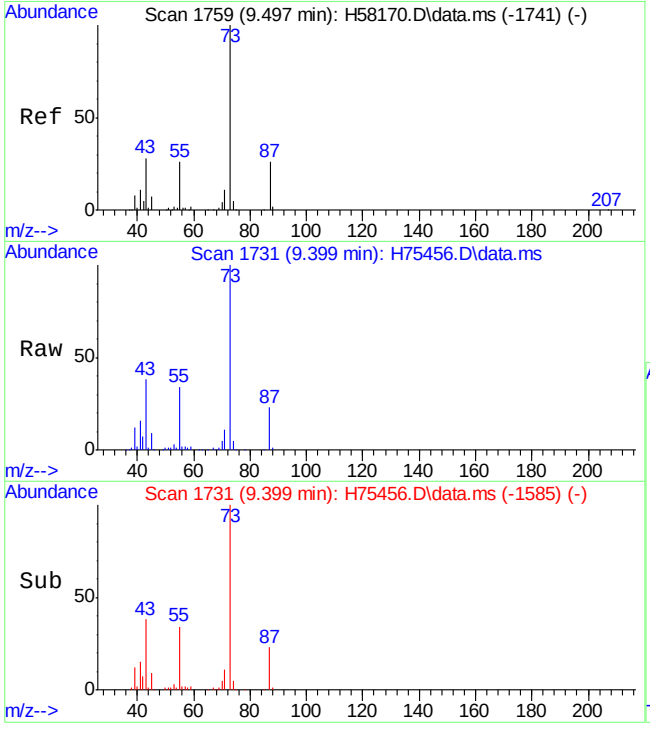


#48
1,2-dichloroethane
Concen: 54.21 ug/L
RT: 8.774 min Scan# 1554
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 62 Resp: 130656

Ion	Ratio	Lower	Upper
62	100		
98	7.1	0.0	37.4

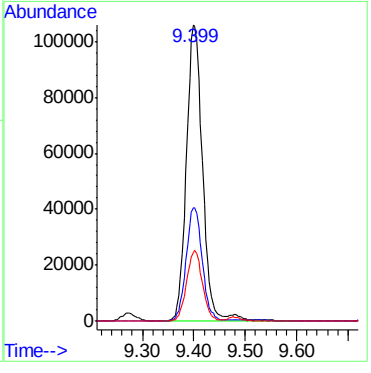




#49
tert-amyl methyl ether
Concen: 52.61 ug/L
RT: 9.399 min Scan# 1731
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 73 Resp: 231027

Ion	Ratio	Lower	Upper
73	100		
43	38.2	3.8	63.8
87	23.0	0.0	59.9



7.4.2

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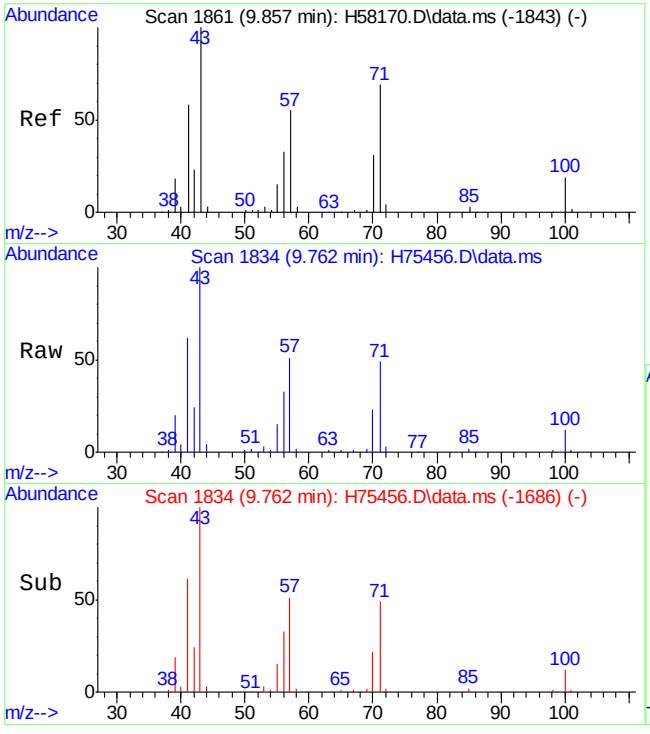
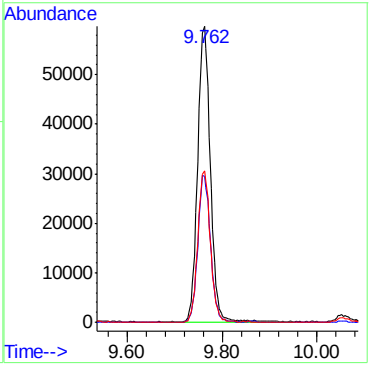
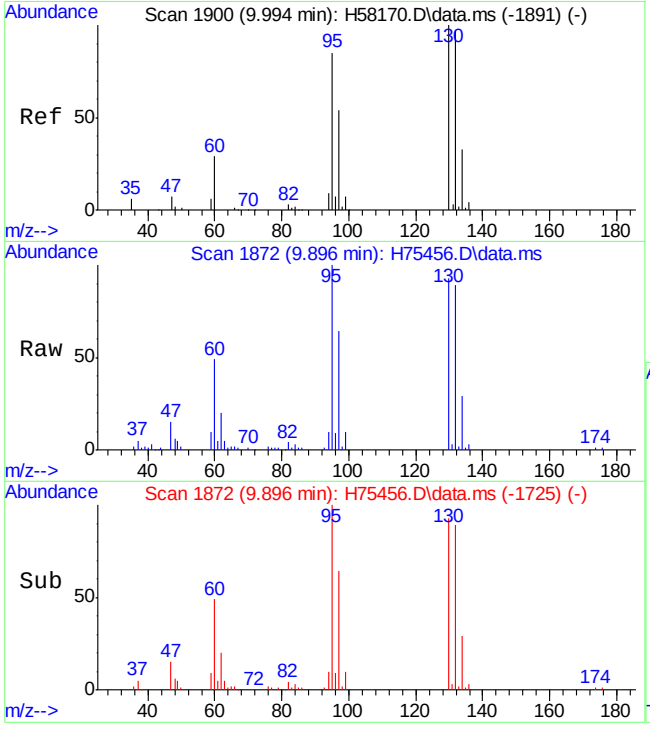


#50
heptane
Concen: 48.97 ug/L
RT: 9.762 min Scan# 1834
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 43 Resp: 111363

Ion	Ratio	Lower	Upper
43	100		
71	49.3	31.4	91.4
57	51.2	21.5	81.5

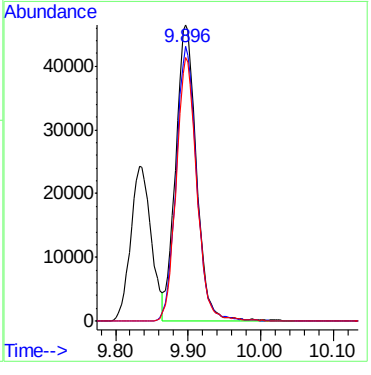




#51
trichloroethene
Concen: 54.62 ug/L
RT: 9.896 min Scan# 1872
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 95 Resp: 92462

Ion	Ratio	Lower	Upper
95	100		
130	92.9	83.0	143.0
132	89.0	82.2	142.2



7.4.2

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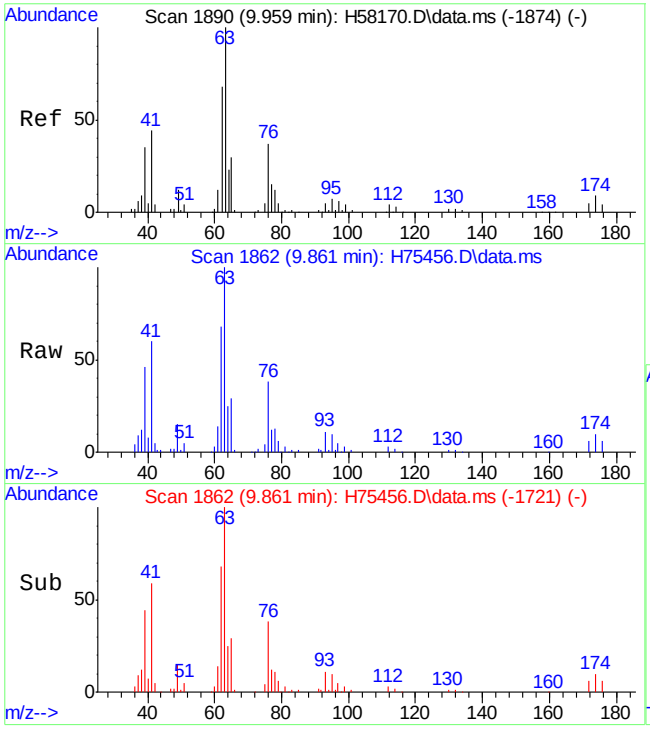
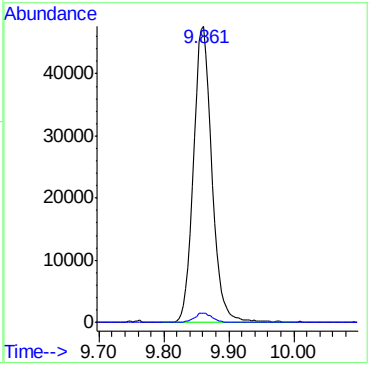
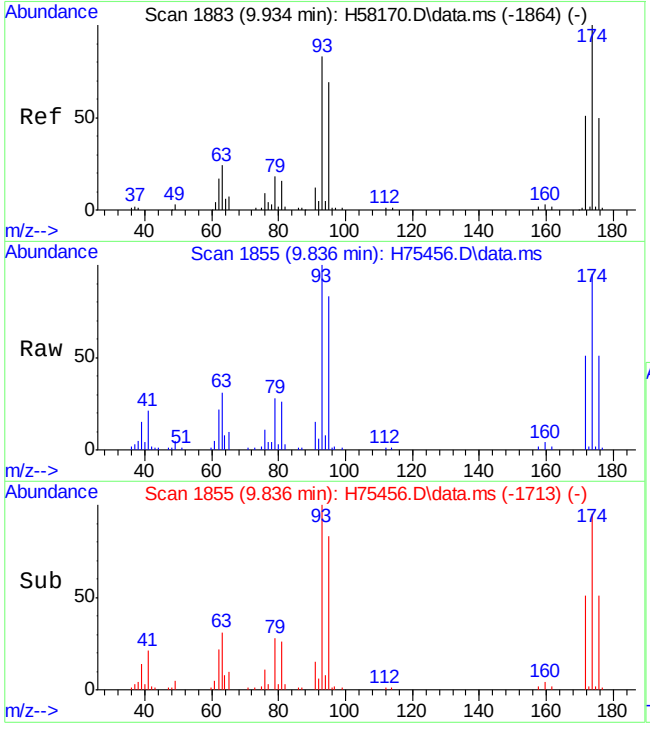


#52
1,2-dichloropropane
Concen: 53.12 ug/L
RT: 9.861 min Scan# 1862
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 63 Resp: 95312

Ion	Ratio	Lower	Upper
63	100		
112	2.9	0.0	34.6

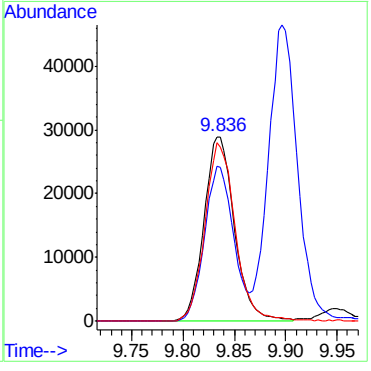


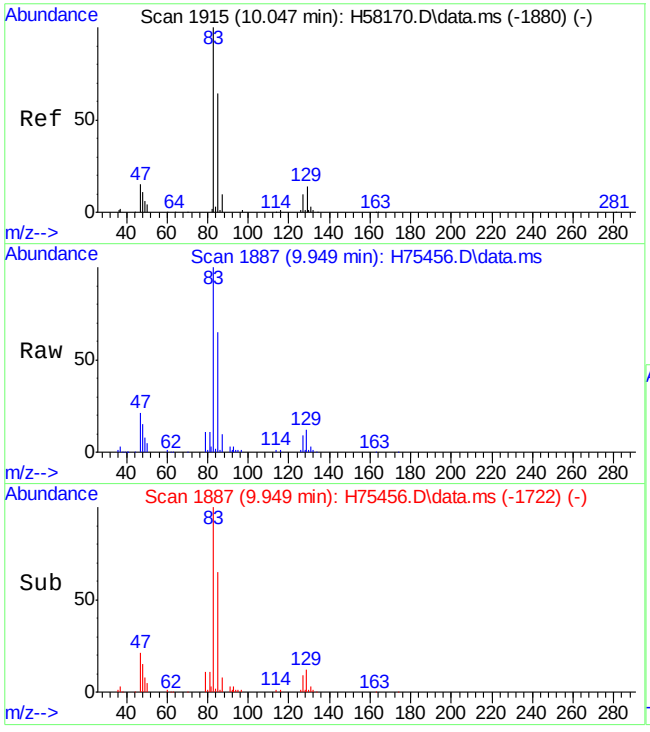


#53
dibromomethane
Concen: 55.31 ug/L
RT: 9.836 min Scan# 1855
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 93 Resp: 59500

Ion	Ratio	Lower	Upper
93	100		
95	83.4	52.2	112.2
174	94.6	76.7	136.7

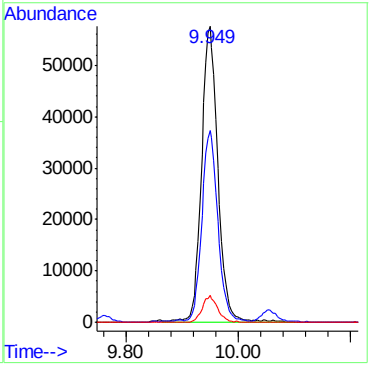


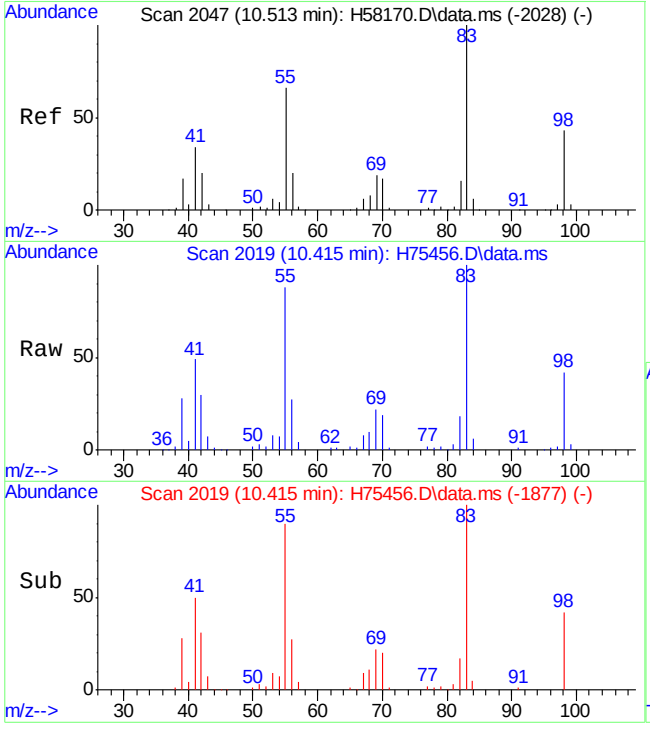


#54
bromodichloromethane
Concen: 54.70 ug/L
RT: 9.949 min Scan# 1887
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 83 Resp: 117816

Ion	Ratio	Lower	Upper
83	100		
85	64.4	36.5	96.5
127	9.3	0.0	42.2

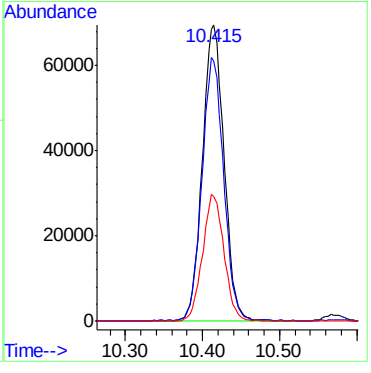




#55
methylcyclohexane
Concen: 49.22 ug/L
RT: 10.415 min Scan# 2019
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 83 Resp: 135335

Ion	Ratio	Lower	Upper
83	100		
55	87.8	51.1	91.1
98	42.0	25.6	65.6



7.4.2

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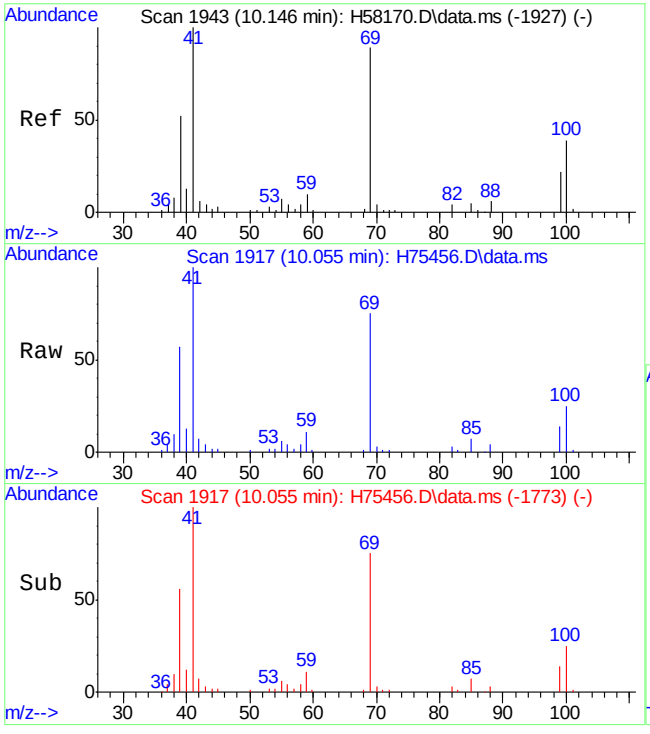
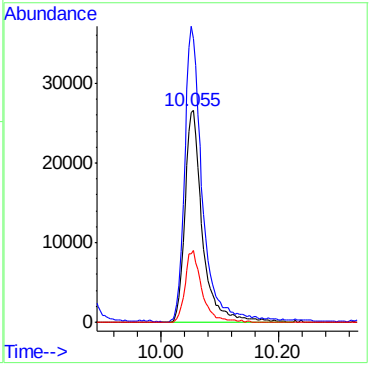
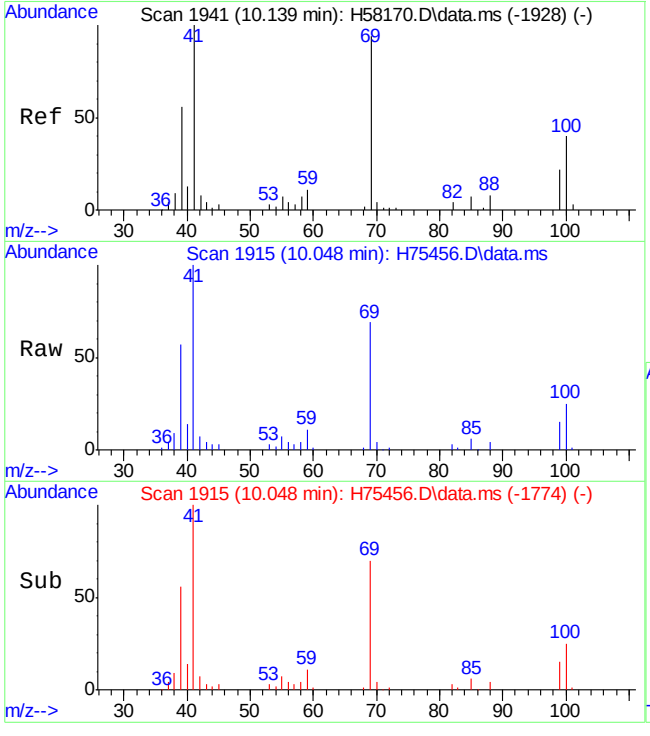


#57
methyl methacrylate
Concen: 48.85 ug/L
RT: 10.055 min Scan# 1917
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 69 Resp: 54873

Ion	Ratio	Lower	Upper
69	100		
41	134.2	108.1	168.1
100	34.0	21.1	81.1

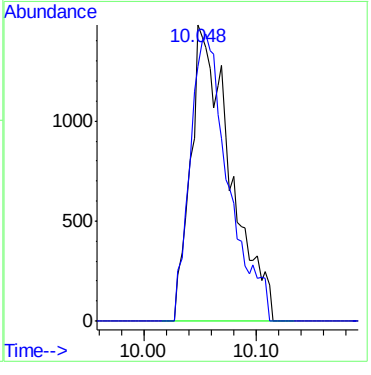




#58
1,4-dioxane
Concen: 236.48 ug/L
RT: 10.048 min Scan# 1915
Delta R.T. -0.012 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 88 Resp: 3629

Ion	Ratio	Lower	Upper
88	100		
58	86.0	60.1	120.1



7.4.2

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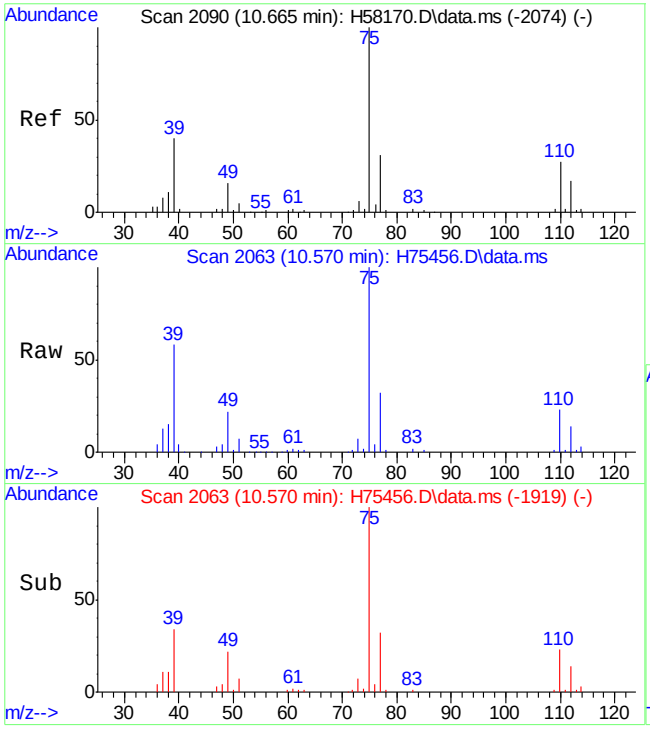
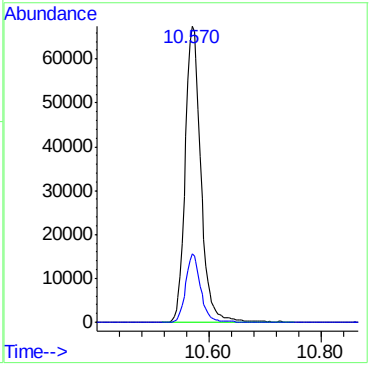
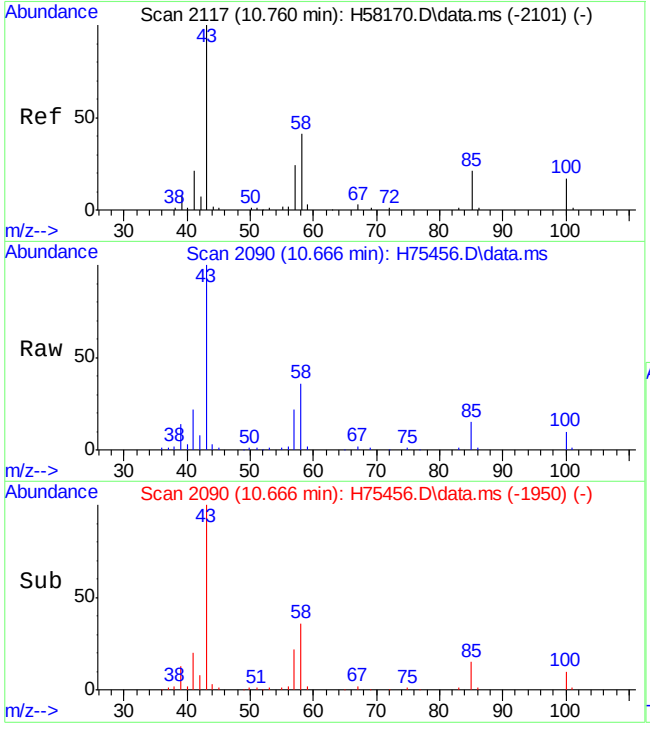


#59
cis-1,3-dichloropropene
Concen: 53.98 ug/L
RT: 10.570 min Scan# 2063
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 75 Resp: 129786

Ion	Ratio	Lower	Upper
75	100		
110	23.0	0.0	57.6

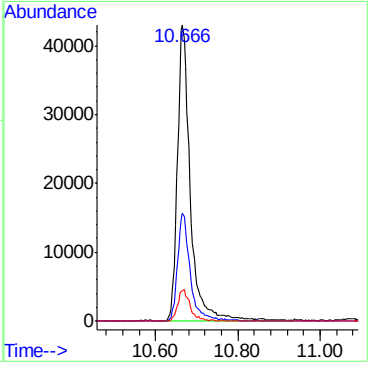




#61
4-methyl-2-pentanone
Concen: 51.95 ug/L
RT: 10.666 min Scan# 2090
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 43 Resp: 94640

Ion	Ratio	Lower	Upper
43	100		
58	35.5	8.9	68.9
100	10.2	0.0	46.9



7.4.2

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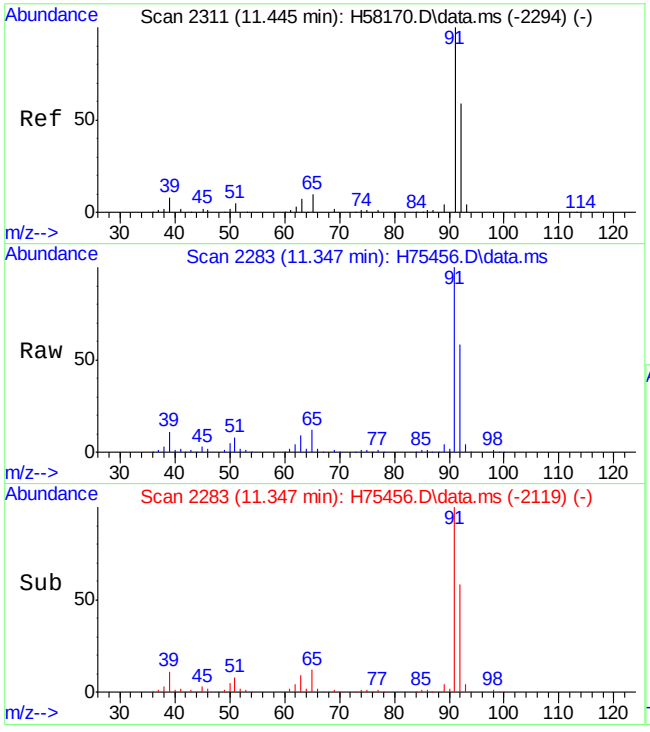
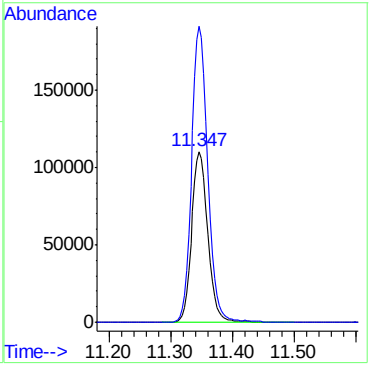
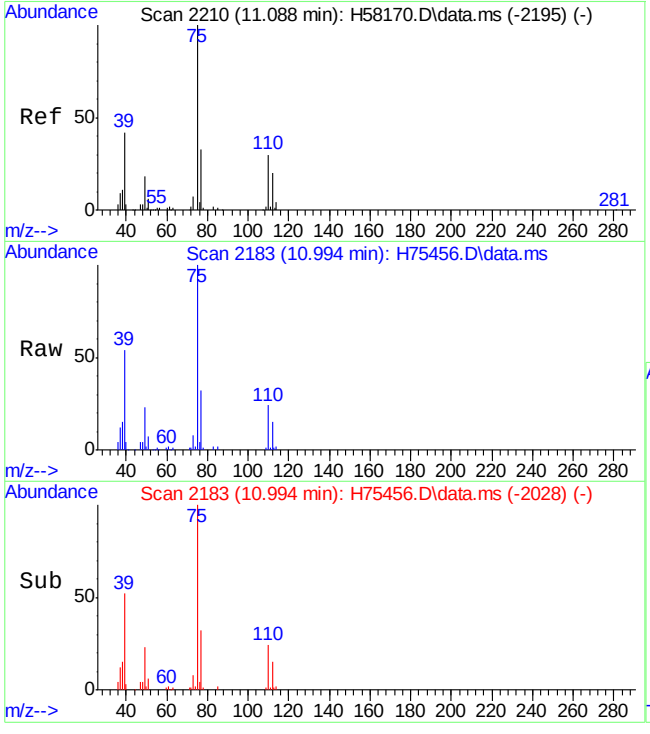


#62
toluene
Concen: 50.81 ug/L
RT: 11.347 min Scan# 2283
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 92 Resp: 200505

Ion	Ratio	Lower	Upper
92	100		
91	173.3	140.4	200.4

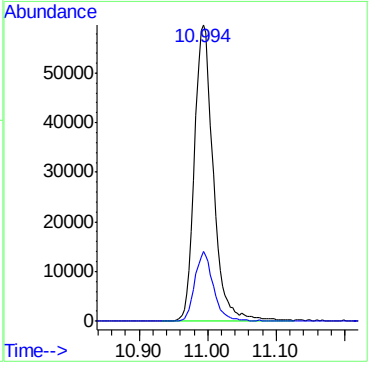


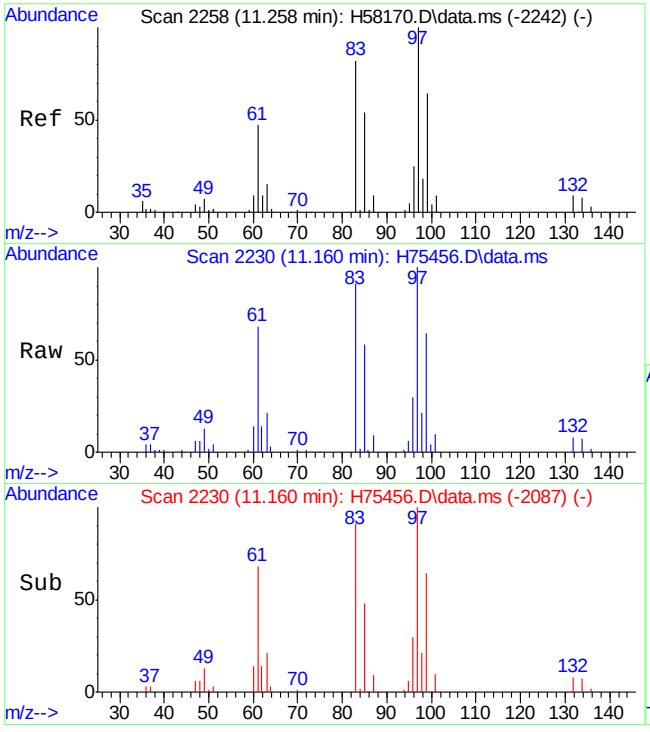


#63
trans-1,3-dichloropropene
Concen: 46.89 ug/L
RT: 10.994 min Scan# 2183
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 75 Resp: 113859

Ion	Ratio	Lower	Upper
75	100		
110	23.7	0.0	54.2

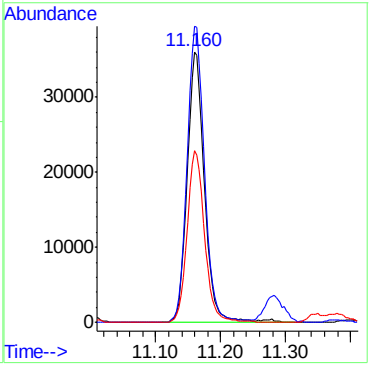


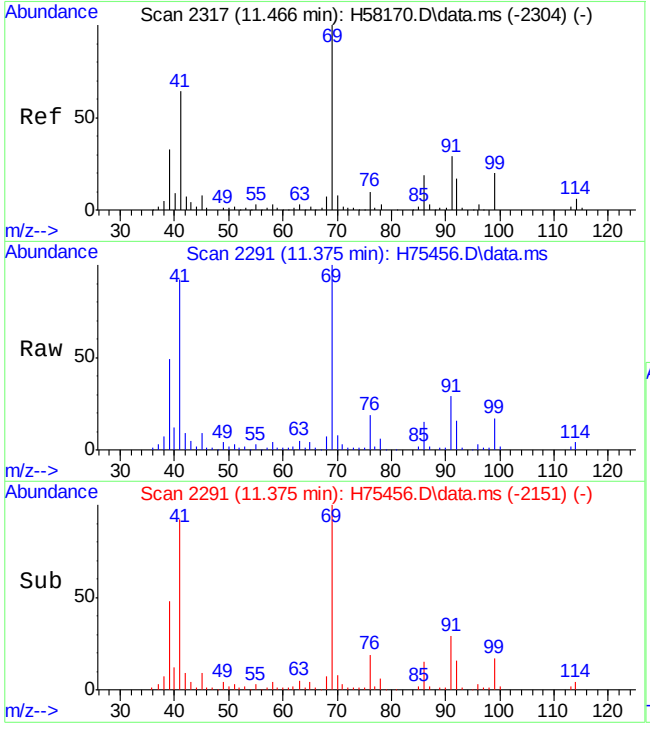


#64
1,1,2-trichloroethane
Concen: 51.60 ug/L
RT: 11.160 min Scan# 2230
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 83 Resp: 67765

Ion	Ratio	Lower	Upper
83	100		
97	109.3	98.5	158.5
85	63.6	34.7	94.7

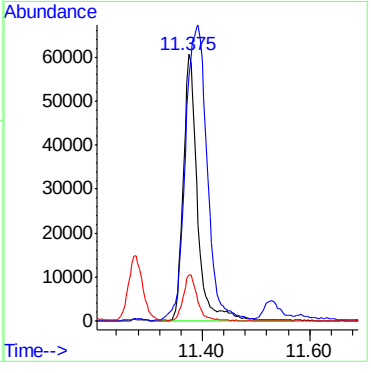


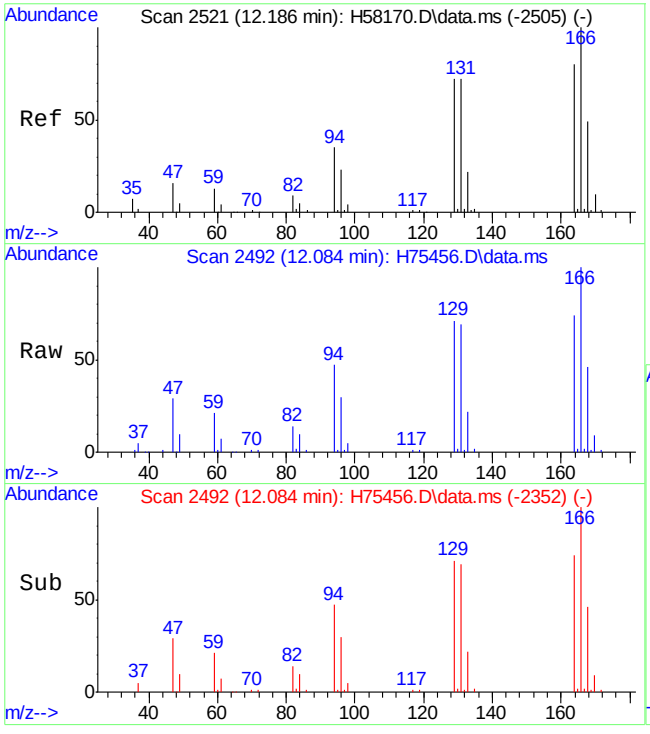


#65
ethyl methacrylate
Concen: 51.92 ug/L
RT: 11.375 min Scan# 2291
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 69 Resp: 111632

Ion	Ratio	Lower	Upper
69	100		
41	90.8	68.2	128.2
99	17.3	0.0	55.4

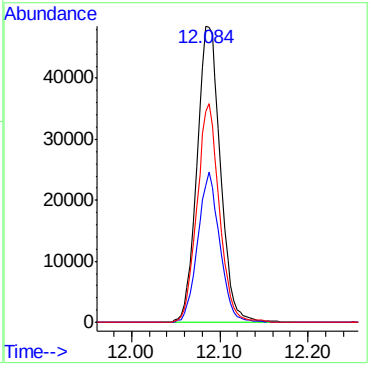


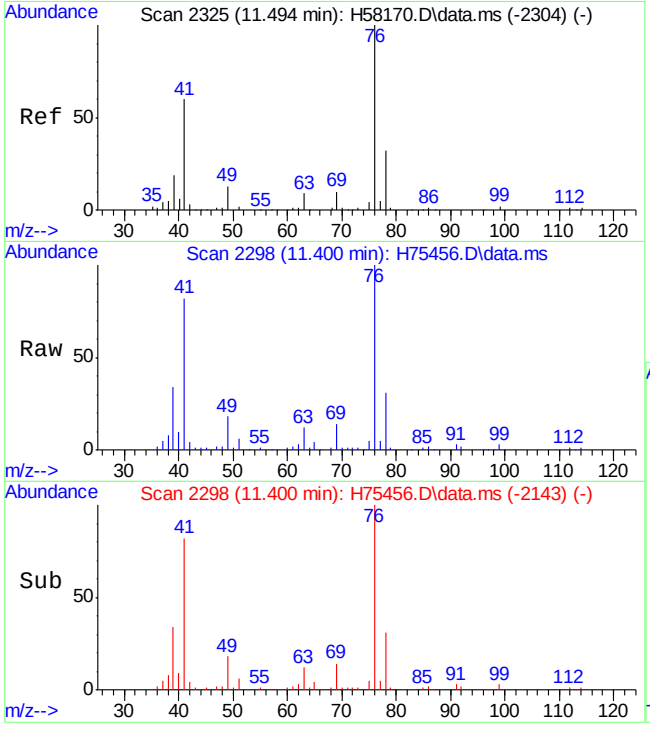


#67
tetrachloroethene
Concen: 47.91 ug/L
RT: 12.084 min Scan# 2492
Delta R.T. -0.006 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:166 Resp: 89498

Ion	Ratio	Lower	Upper
166	100		
168	46.3	17.7	77.7
129	71.1	48.9	108.9

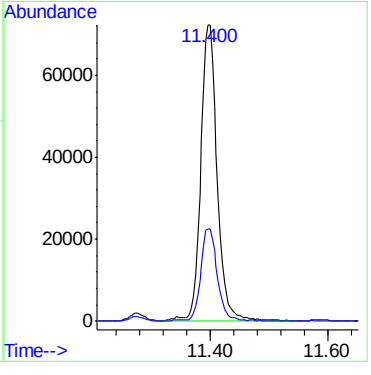


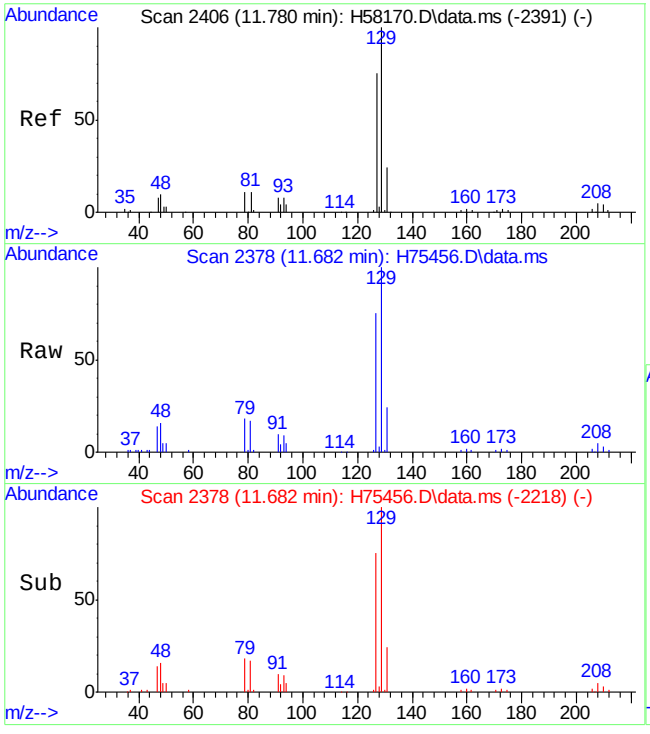


#68
1,3-dichloropropane
Concen: 49.59 ug/L
RT: 11.400 min Scan# 2298
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 76 Resp: 139116

Ion	Ratio	Lower	Upper
76	100		
78	31.2	3.4	63.4

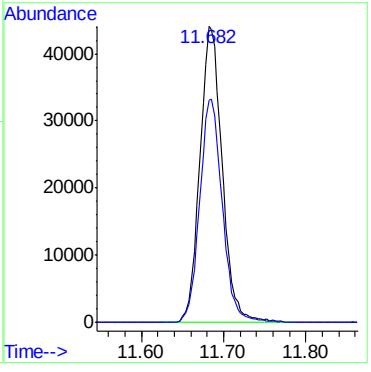


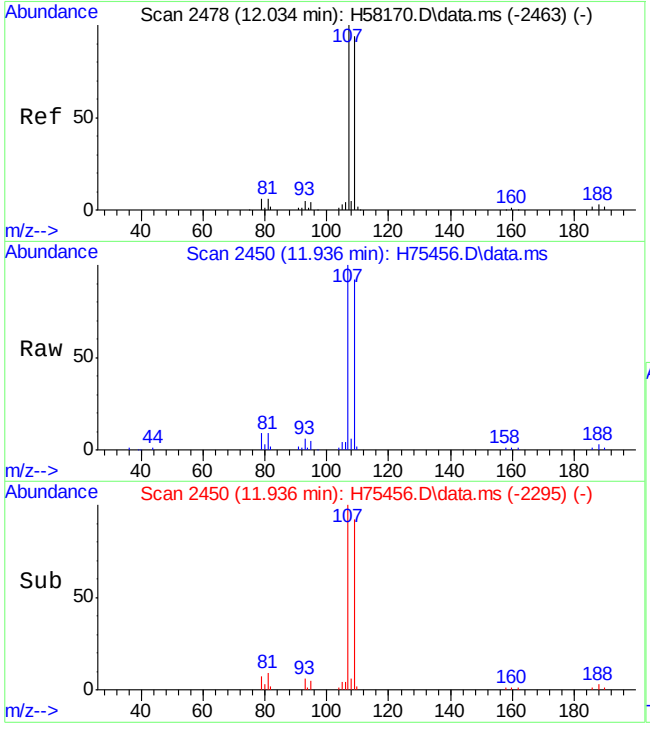


#69
dibromochloromethane
Concen: 45.01 ug/L
RT: 11.682 min Scan# 2378
Delta R.T. -0.005 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:129 Resp: 83200

Ion	Ratio	Lower	Upper
129	100		
127	74.9	48.1	108.1

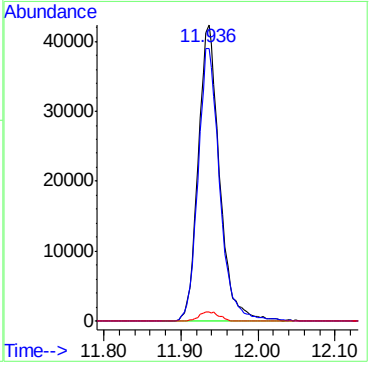


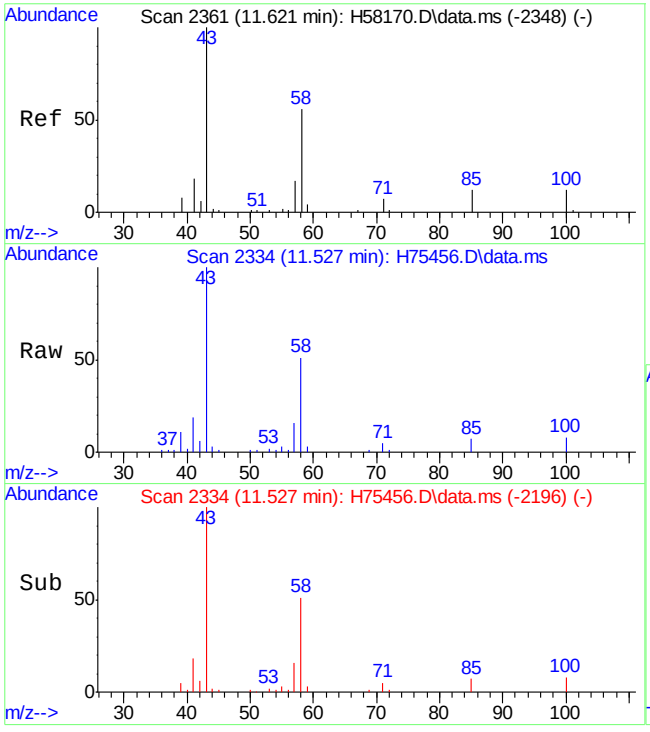


#70
1,2-dibromoethane
Concen: 49.20 ug/L
RT: 11.936 min Scan# 2450
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:107 Resp: 81293

Ion	Ratio	Lower	Upper
107	100		
109	92.2	58.7	118.7
188	3.1	0.0	33.1

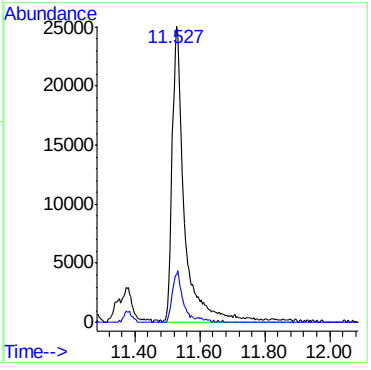


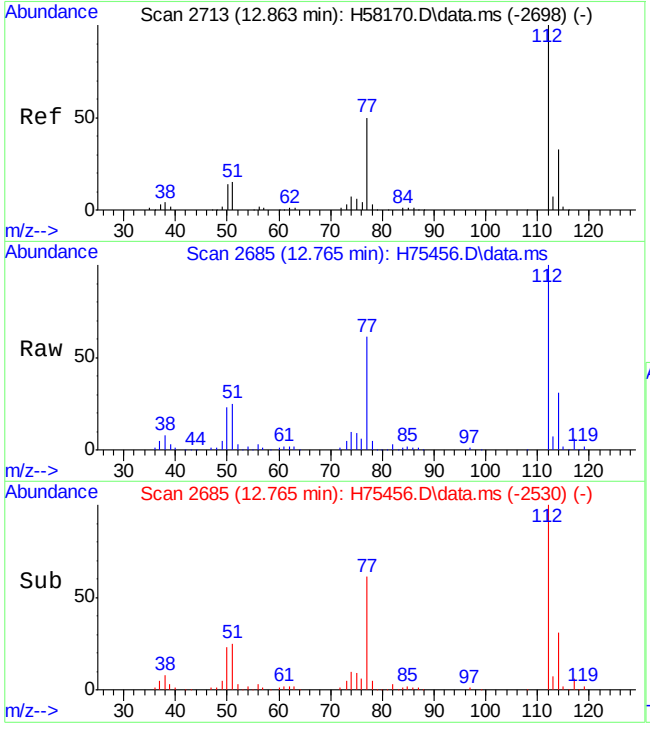


#71
2-hexanone
Concen: 47.97 ug/L
RT: 11.527 min Scan# 2334
Delta R.T. -0.013 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 43 Resp: 65042

Ion	Ratio	Lower	Upper
43	100		
57	15.3	0.0	48.4

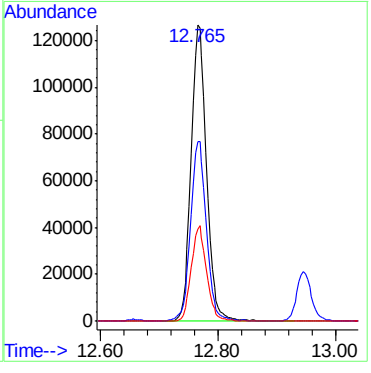


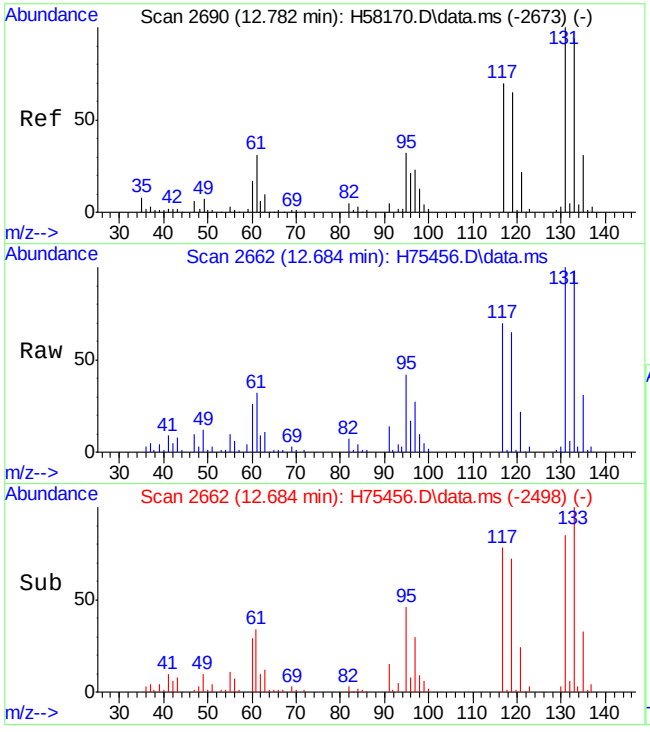


#72
chlorobenzene
Concen: 46.20 ug/L
RT: 12.765 min Scan# 2685
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:112 Resp: 229733

Ion	Ratio	Lower	Upper
112	100		
77	60.6	19.7	79.7
114	31.2	2.4	62.4

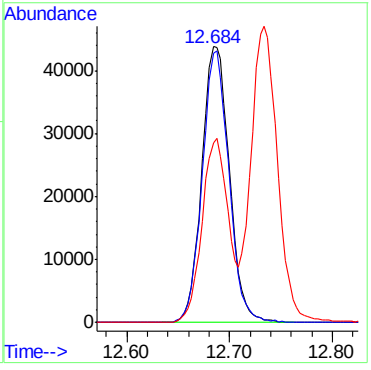


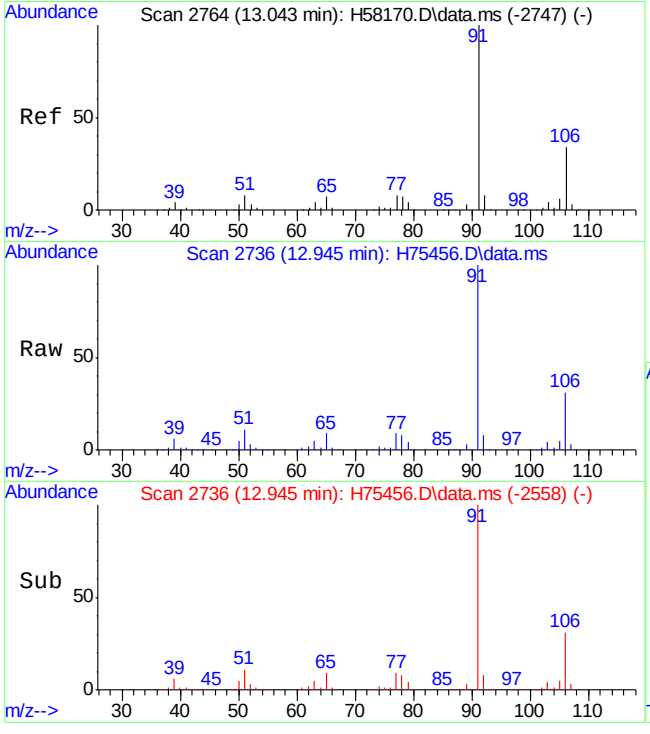


#73
1,1,1,2-tetrachloroethane
Concen: 52.73 ug/L
RT: 12.684 min Scan# 2662
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:131 Resp: 81114

Ion	Ratio	Lower	Upper
131	100		
133	97.7	64.9	124.9
119	65.2	26.4	86.4

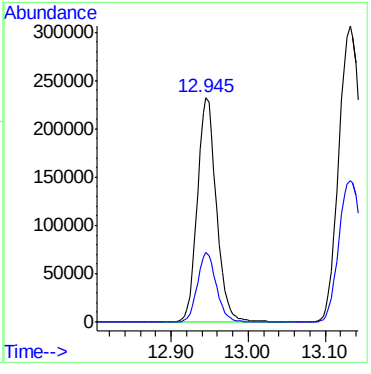




#74
ethylbenzene
Concen: 49.87 ug/L
RT: 12.945 min Scan# 2736
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

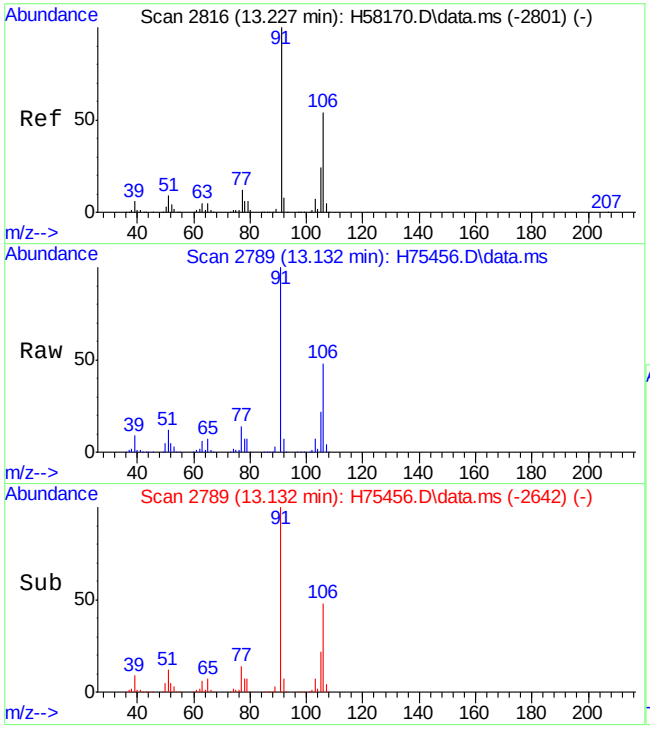
Tgt Ion: 91 Resp: 397795

Ion	Ratio	Lower	Upper
91	100		
106	31.1	2.9	62.9



7.4.2

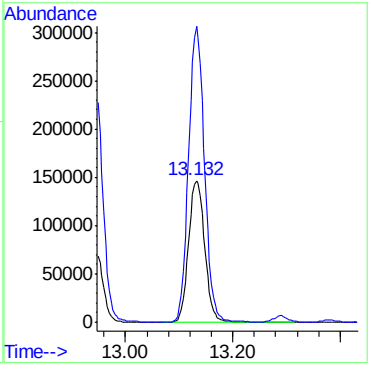
7

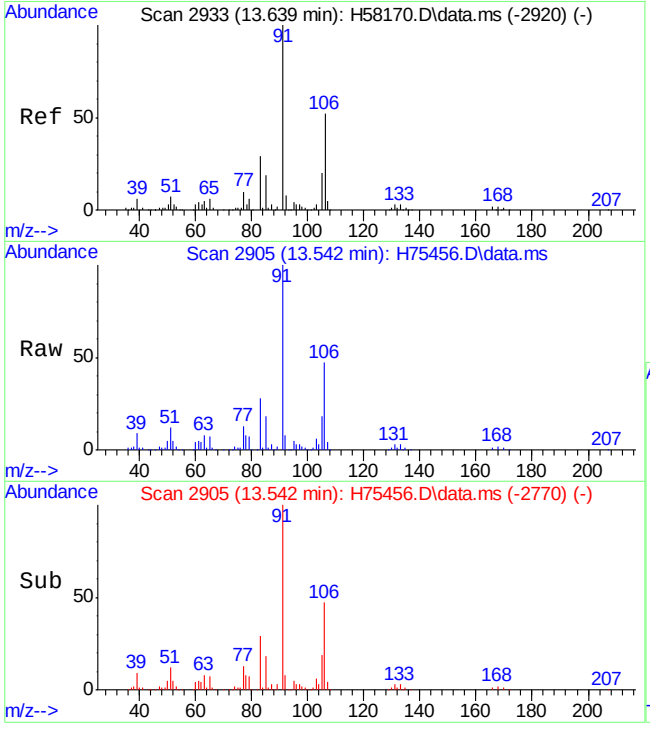


#75
m,p-xylene
Concen: 103.32 ug/L
RT: 13.132 min Scan# 2789
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:106 Resp: 309215

Ion	Ratio	Lower	Upper
106	100		
91	208.5	173.2	233.2

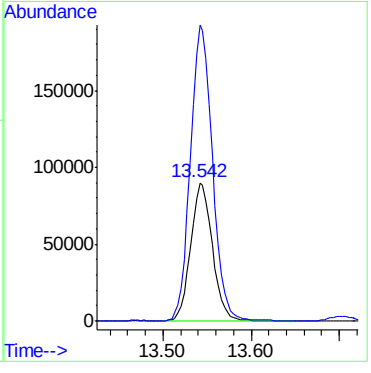


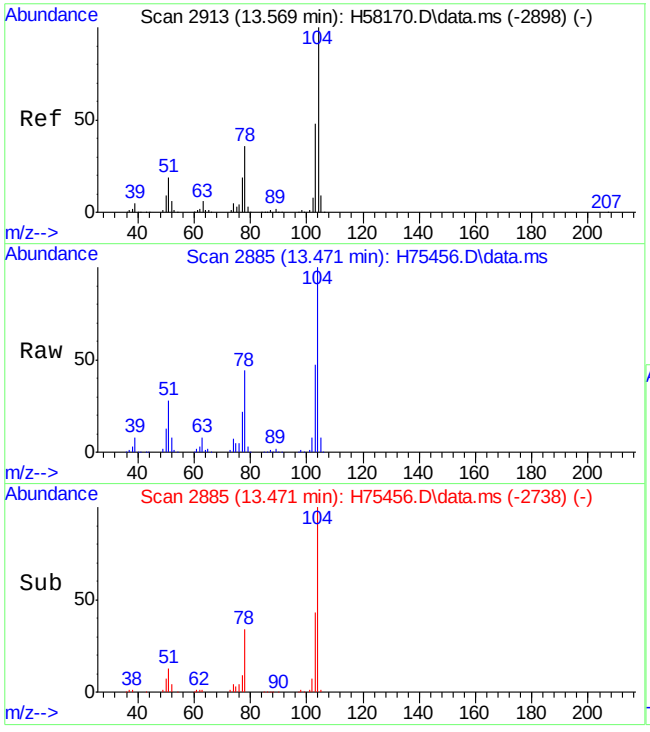


#76
o-xylene
Concen: 49.97 ug/L
RT: 13.542 min Scan# 2905
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:106 Resp: 153437

Ion	Ratio	Lower	Upper
106	100		
91	213.6	183.3	243.3

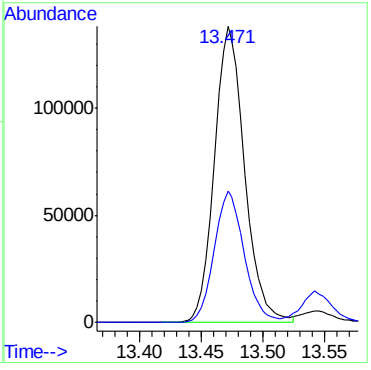


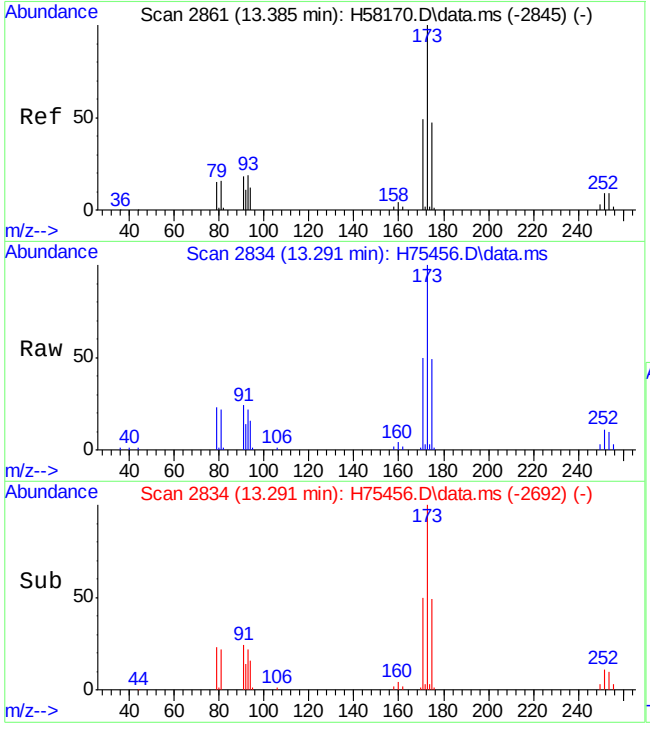


#77
styrene
Concen: 45.66 ug/L
RT: 13.471 min Scan# 2885
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:104 Resp: 235859

Ion	Ratio	Lower	Upper
104	100		
78	44.5	12.2	72.2

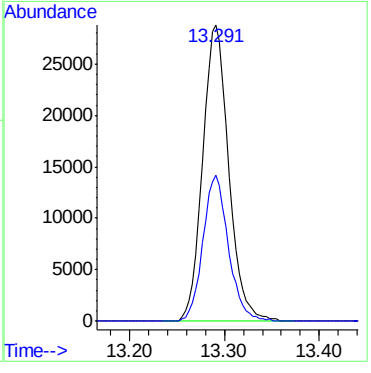


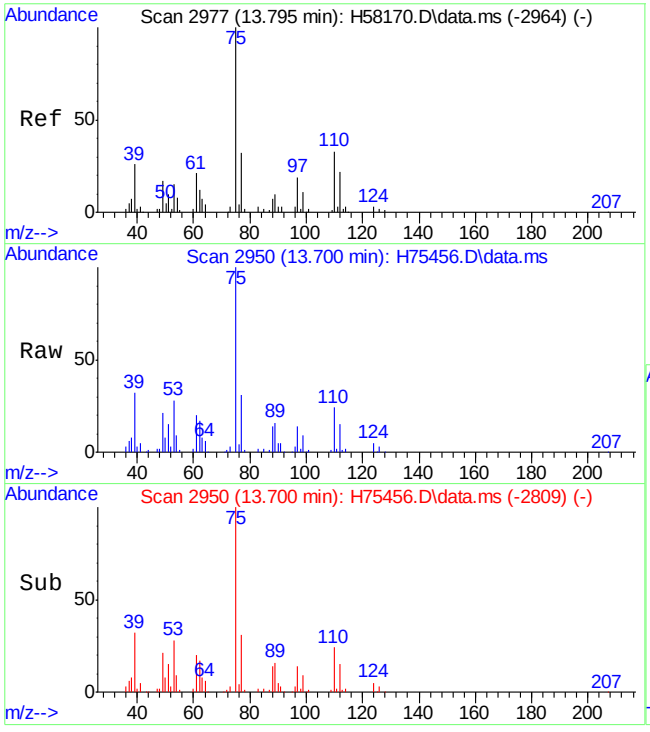


#78
bromoform
Concen: 52.29 ug/L
RT: 13.291 min Scan# 2834
Delta R.T. 0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:173 Resp: 54573

Ion	Ratio	Lower	Upper
173	100		
175	49.0	17.7	77.7

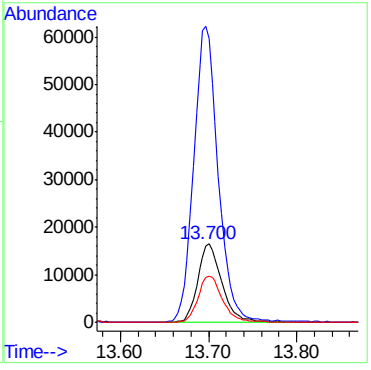


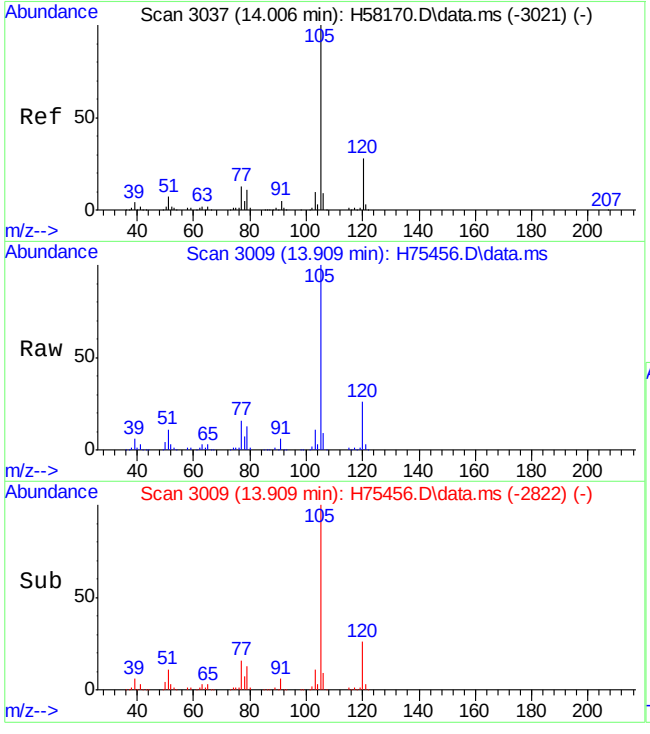


#79
trans-1,4-dichloro-2-butene
Concen: 51.80 ug/L
RT: 13.700 min Scan# 2950
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 53 Resp: 31159

Ion	Ratio	Lower	Upper
53	100		
75	361.2	302.8	362.8
89	58.8	25.5	85.5

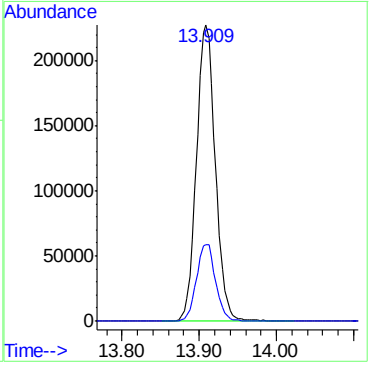




#81
isopropylbenzene
Concen: 45.39 ug/L
RT: 13.909 min Scan# 3009
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

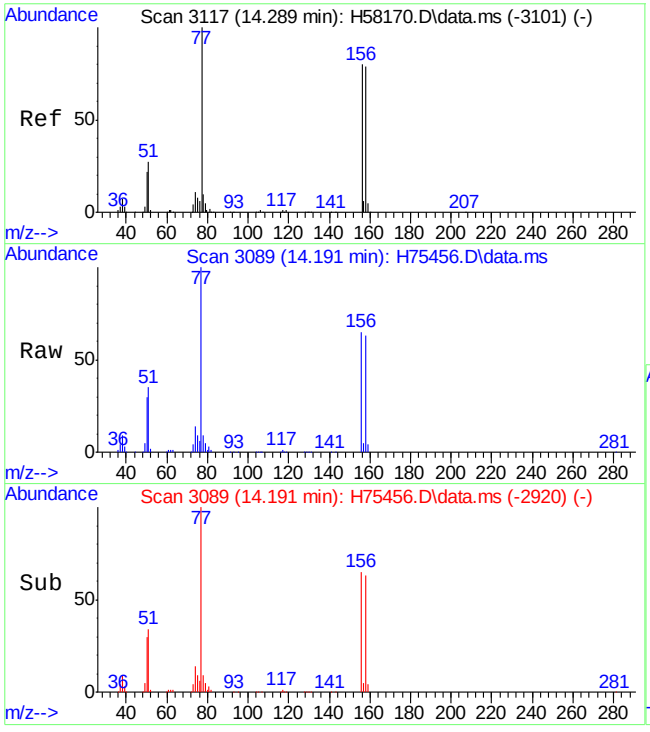
Tgt Ion:105 Resp: 385414

Ion	Ratio	Lower	Upper
105	100		
120	25.9	0.0	56.6



7.4.2

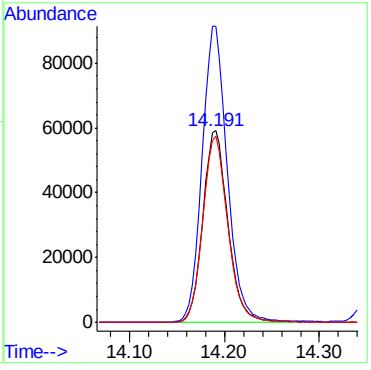
7

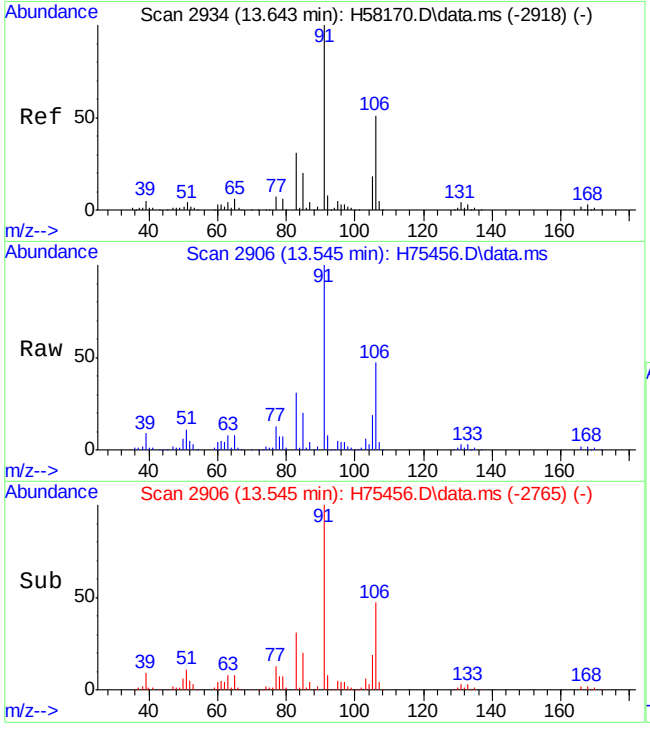


#83
bromobenzene
Concen: 45.91 ug/L
RT: 14.191 min Scan# 3089
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:156 Resp: 107770

Ion	Ratio	Lower	Upper
156	100		
77	154.5	93.1	153.1#
158	97.5	65.7	125.7

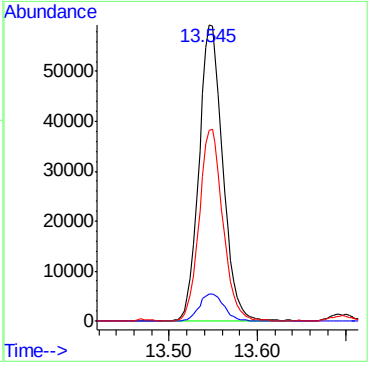


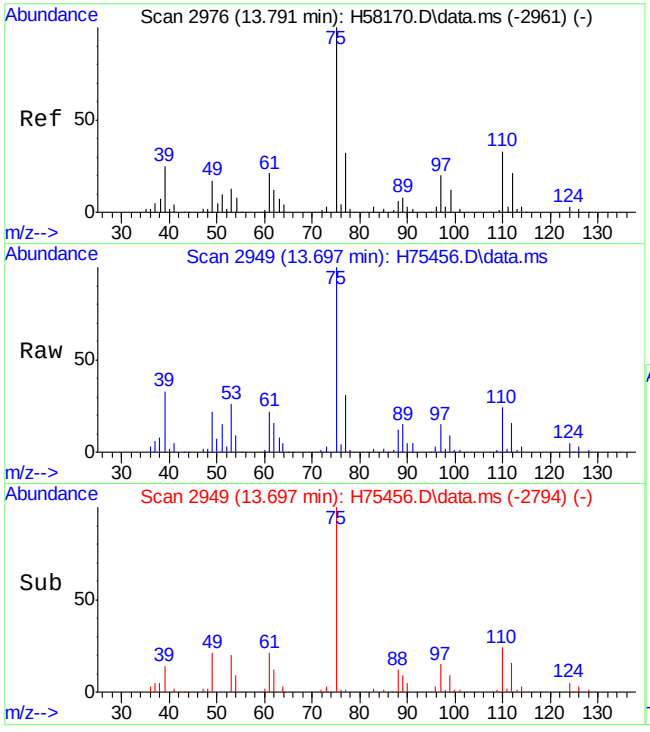


#84
1,1,2,2-tetrachloroethane
Concen: 53.53 ug/L
RT: 13.545 min Scan# 2906
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 83 Resp: 110829

Ion	Ratio	Lower	Upper
83	100		
131	9.3	0.0	45.7
85	64.5	36.0	96.0

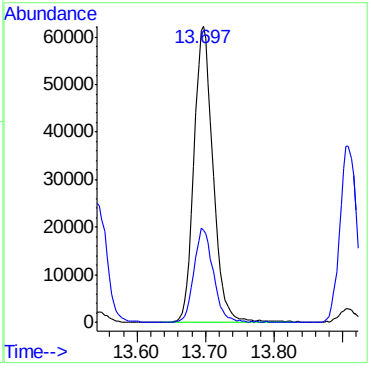


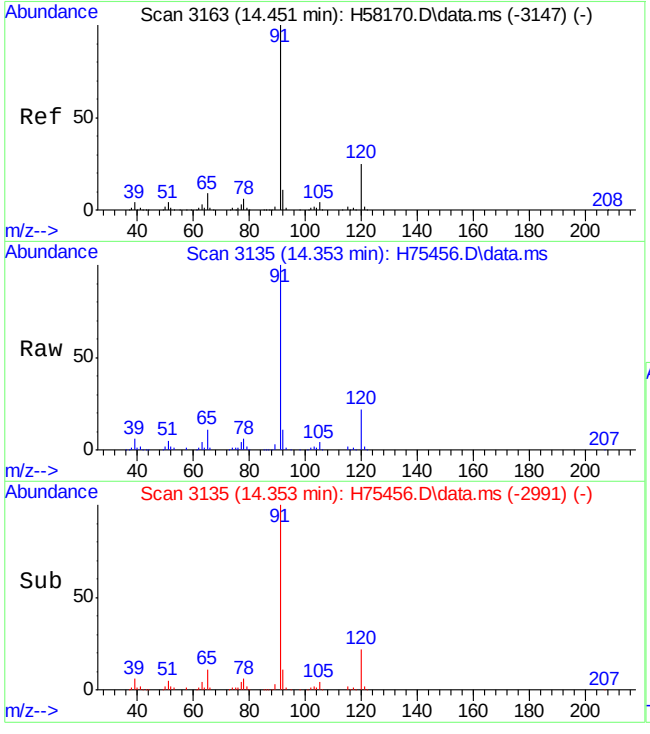


#85
1,2,3-trichloropropane
Concen: 51.07 ug/L
RT: 13.697 min Scan# 2949
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 75 Resp: 120066

Ion	Ratio	Lower	Upper
75	100		
77	30.9	4.2	64.2

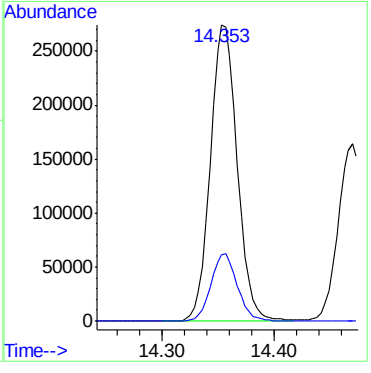


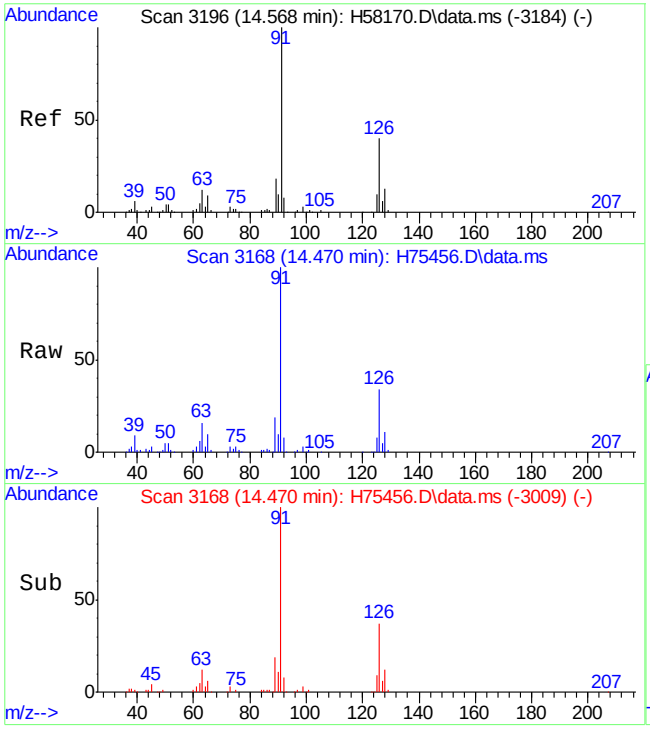


#86
n-propylbenzene
Concen: 45.77 ug/L
RT: 14.353 min Scan# 3135
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 91 Resp: 458409

Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	55.4

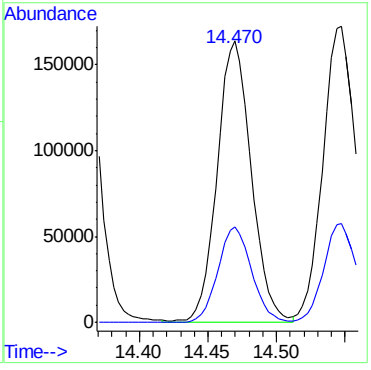


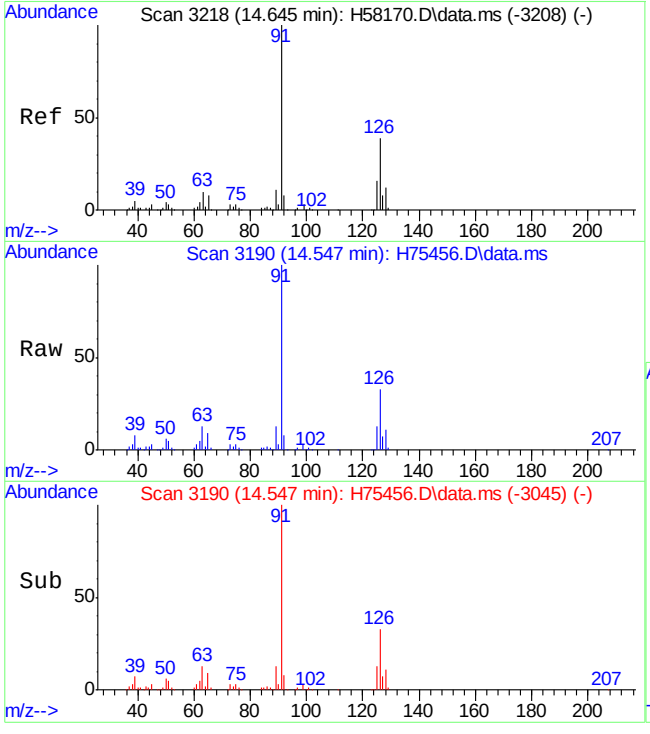


#87
2-chlorotoluene
Concen: 47.19 ug/L
RT: 14.470 min Scan# 3168
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 91 Resp: 282706

Ion	Ratio	Lower	Upper
91	100		
126	33.9	10.4	70.4

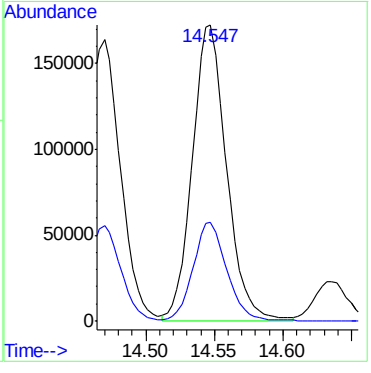


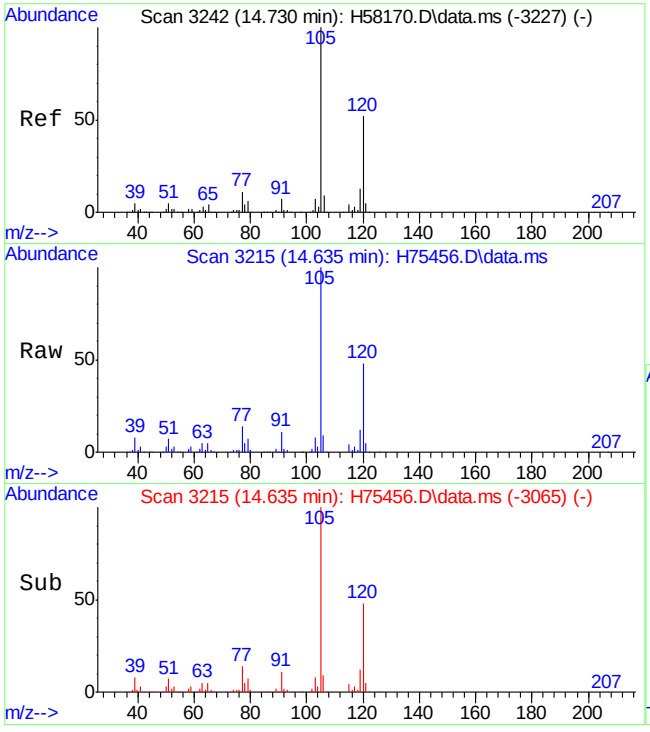


#88
4-chlorotoluene
Concen: 47.76 ug/L
RT: 14.547 min Scan# 3190
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 91 Resp: 300990

Ion	Ratio	Lower	Upper
91	100		
126	33.5	9.4	69.4

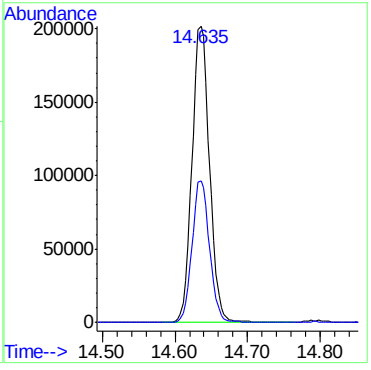


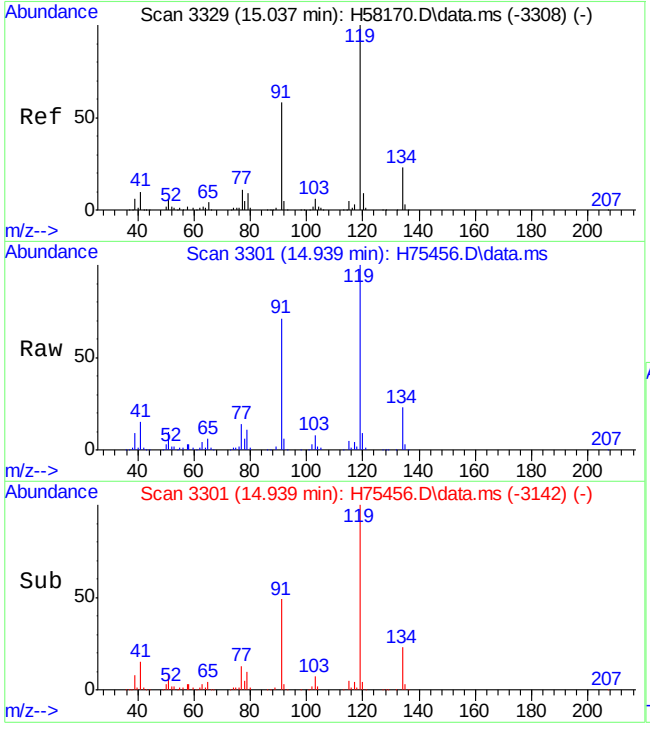


#89
1,3,5-trimethylbenzene
Concen: 50.61 ug/L
RT: 14.635 min Scan# 3215
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:105 Resp: 337676

Ion	Ratio	Lower	Upper
105	100		
120	47.8	18.1	78.1

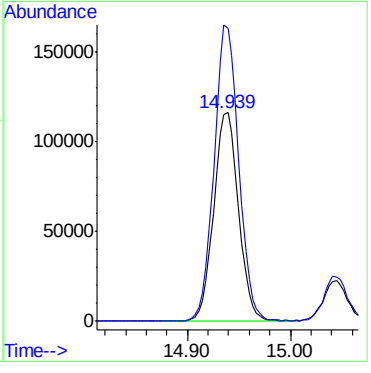




#90
tert-butylbenzene
Concen: 47.77 ug/L
RT: 14.939 min Scan# 3301
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

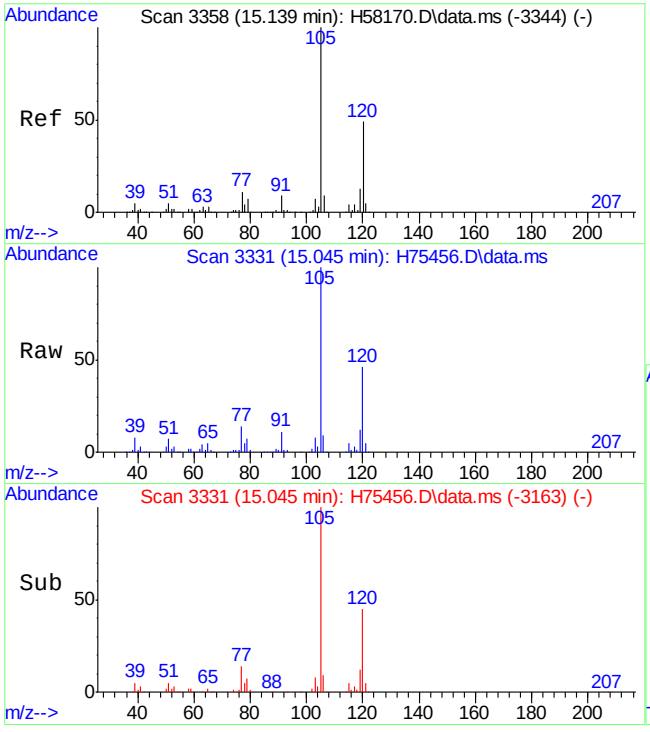
Tgt Ion: 91 Resp: 194285

Ion	Ratio	Lower	Upper
91	100		
119	140.6	125.7	185.7



7.4.2

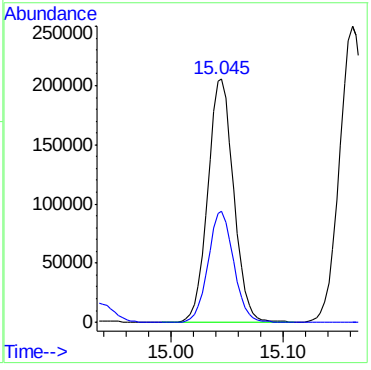
7

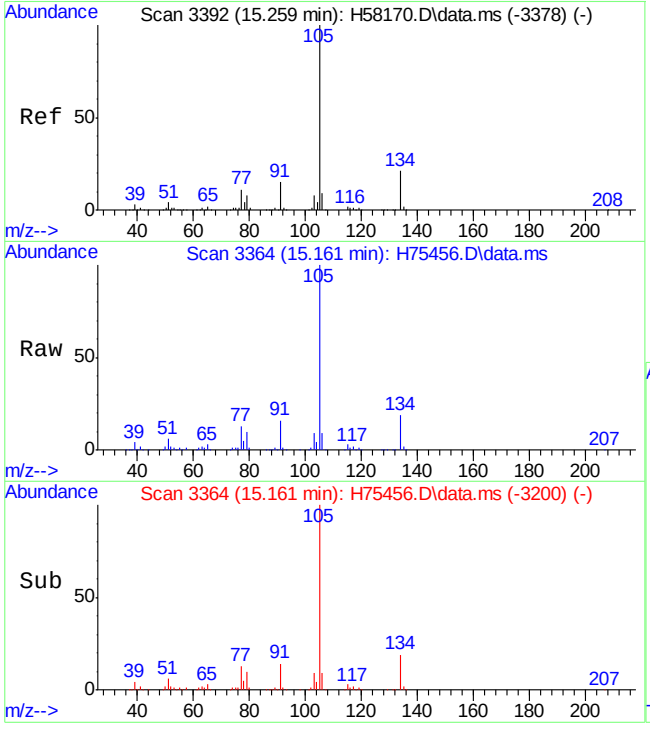


#91
1,2,4-trimethylbenzene
Concen: 49.40 ug/L
RT: 15.045 min Scan# 3331
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:105 Resp: 330702

Ion	Ratio	Lower	Upper
105	100		
120	45.5	15.6	75.6

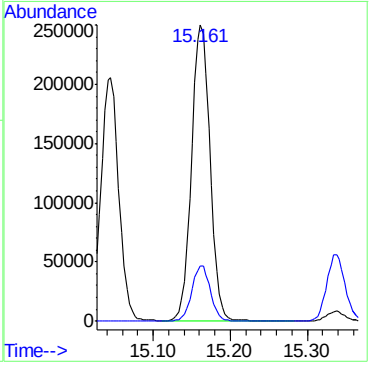


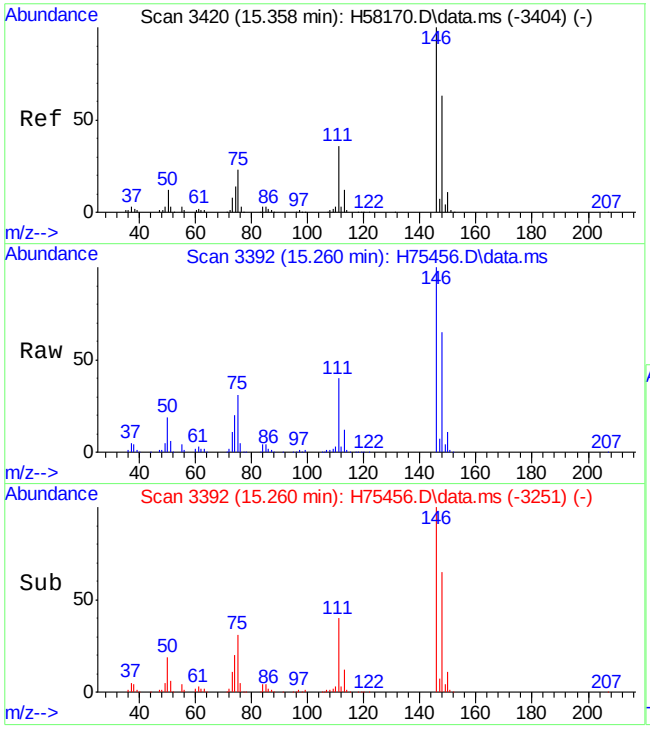


#92
sec-butylbenzene
Concen: 48.27 ug/L
RT: 15.161 min Scan# 3364
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:105 Resp: 417509

Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	49.6

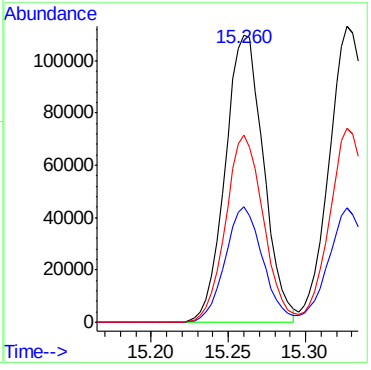


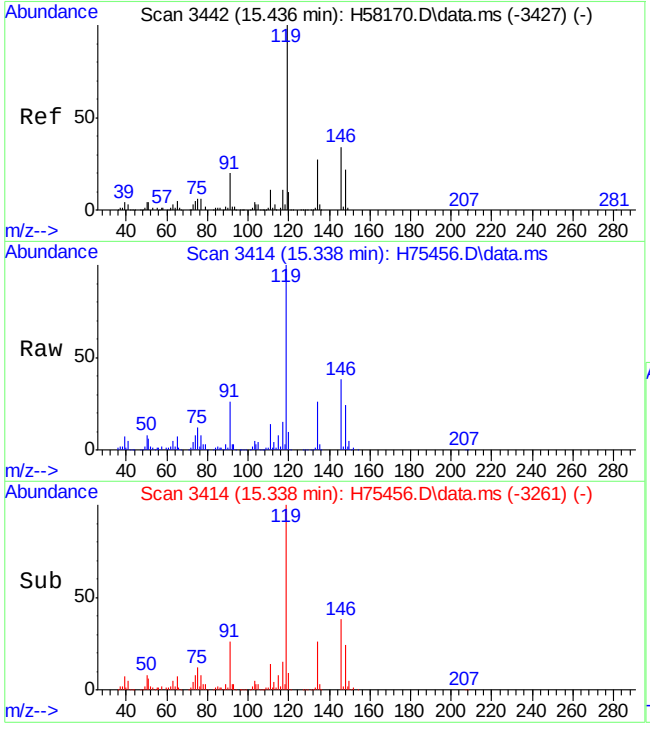


#93
1,3-dichlorobenzene
Concen: 47.67 ug/L
RT: 15.260 min Scan# 3392
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:146 Resp: 189314

Ion	Ratio	Lower	Upper
146	100		
111	40.3	8.2	68.2
148	65.2	34.0	94.0

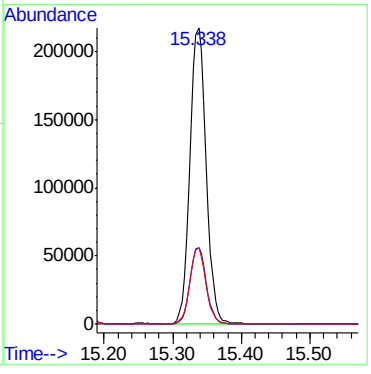


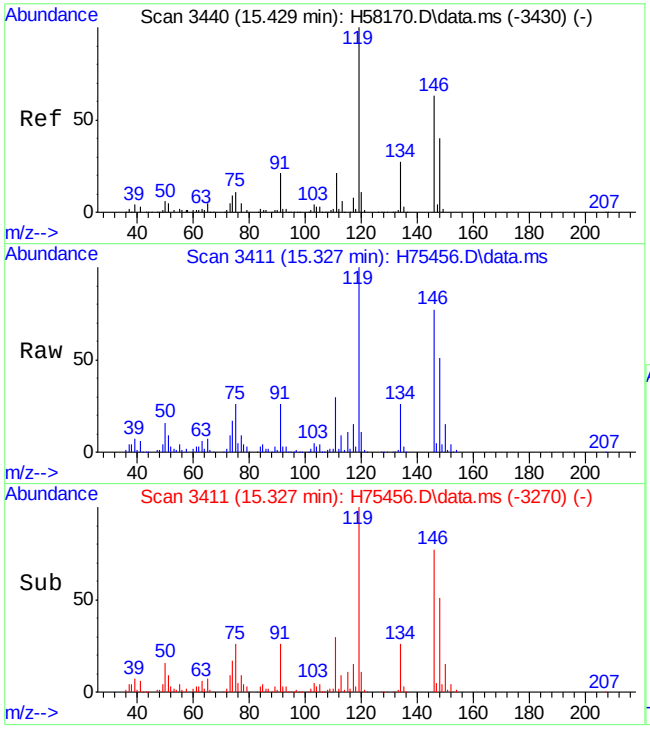


#94
p-isopropyltoluene
Concen: 49.30 ug/L
RT: 15.338 min Scan# 3414
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:119 Resp: 358494

Ion	Ratio	Lower	Upper
119	100		
134	25.9	0.0	57.0
91	25.7	0.0	52.8

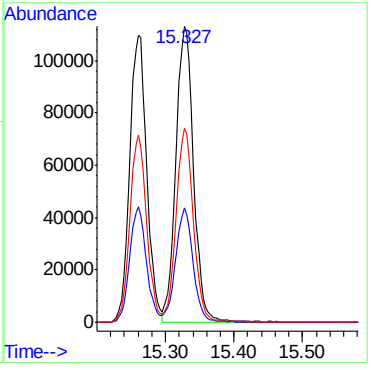


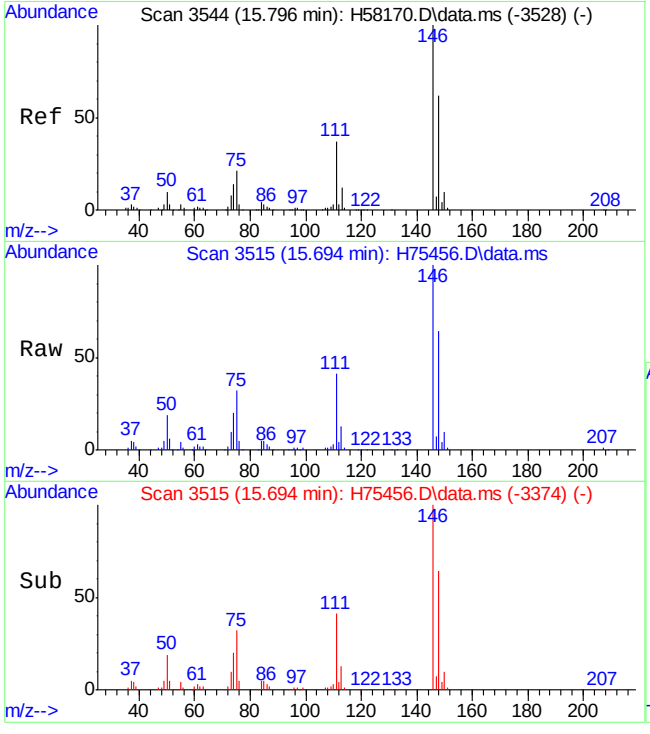


#95
1,4-dichlorobenzene
Concen: 47.26 ug/L
RT: 15.327 min Scan# 3411
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:146 Resp: 204751

Ion	Ratio	Lower	Upper
146	100		
111	38.8	6.7	66.7
148	65.4	34.0	94.0

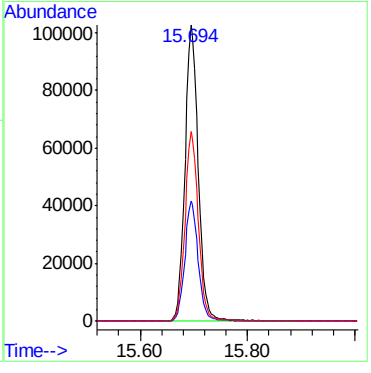




#96
1,2-dichlorobenzene
Concen: 49.25 ug/L
RT: 15.694 min Scan# 3515
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

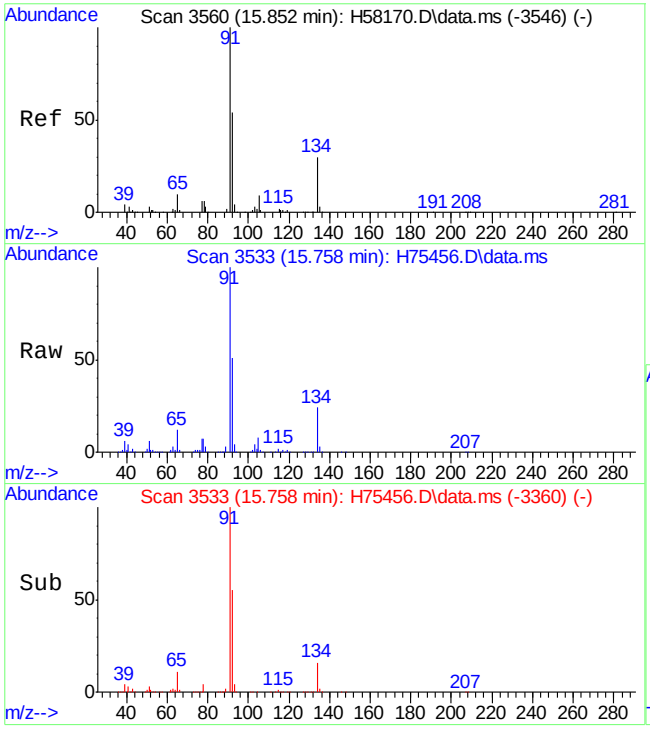
Tgt Ion:146 Resp: 177661

Ion	Ratio	Lower	Upper
146	100		
111	40.6	9.9	69.9
148	63.9	33.5	93.5



7.4.2

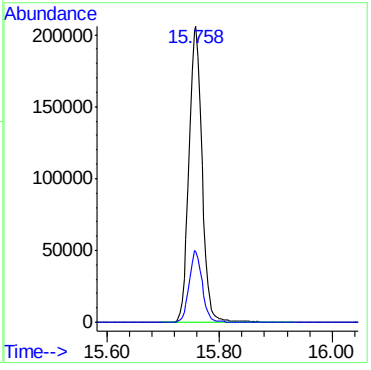
7

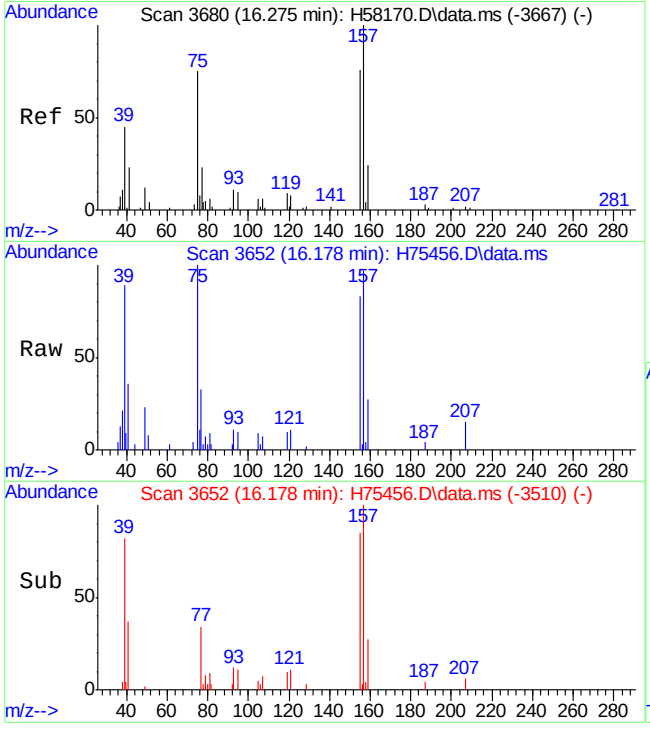


#97
n-butylbenzene
Concen: 51.65 ug/L
RT: 15.758 min Scan# 3533
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 91 Resp: 332964

Ion	Ratio	Lower	Upper
91	100		
134	23.8	0.0	59.2

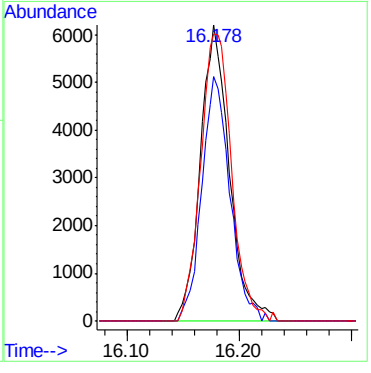


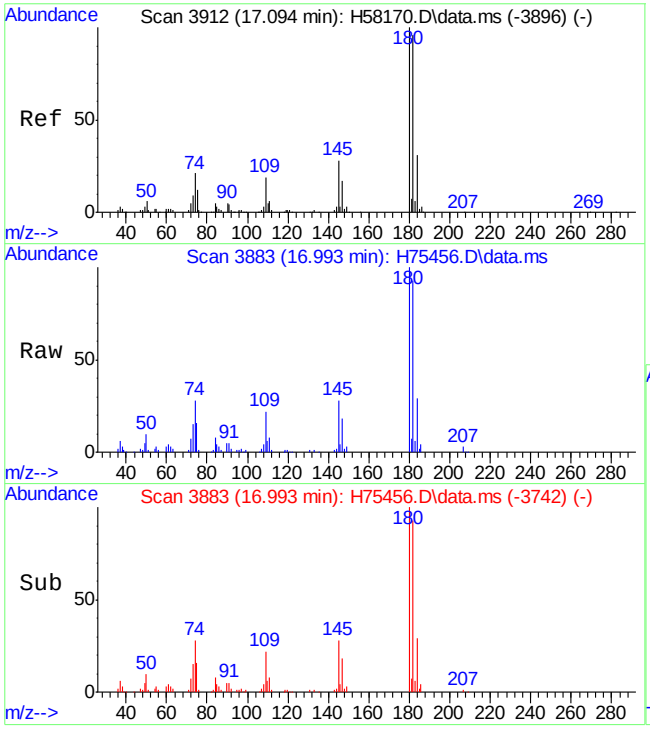


#98
1,2-dibromo-3-chloropropane
Concen: 54.32 ug/L
RT: 16.178 min Scan# 3652
Delta R.T. 0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion: 75 Resp: 11186

Ion	Ratio	Lower	Upper
75	100		
155	82.5	66.2	126.2
157	96.8	88.7	148.7

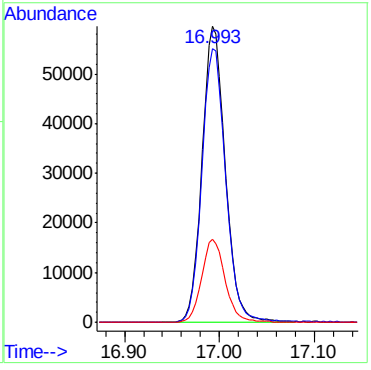


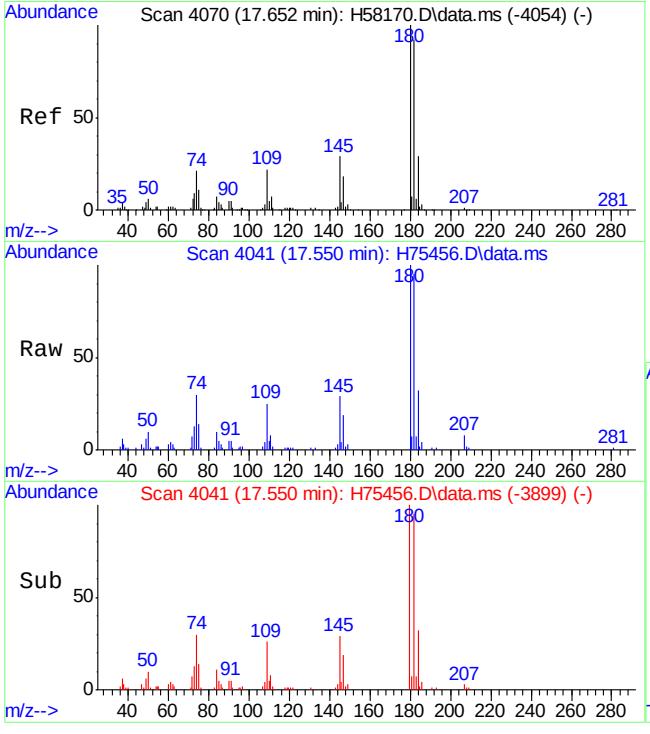


#99
1,3,5-trichlorobenzene
Concen: 45.54 ug/L
RT: 16.993 min Scan# 3883
Delta R.T. -0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:180 Resp: 100911

Ion	Ratio	Lower	Upper
180	100		
182	95.1	74.1	111.1
145	28.2	28.0	42.0

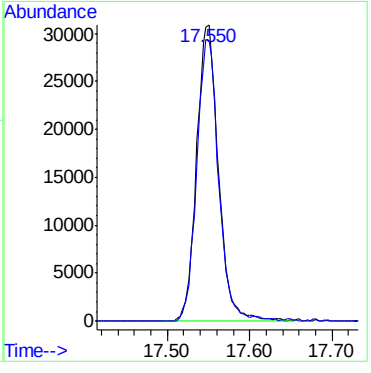




#100
1,2,4-trichlorobenzene
Concen: 50.26 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

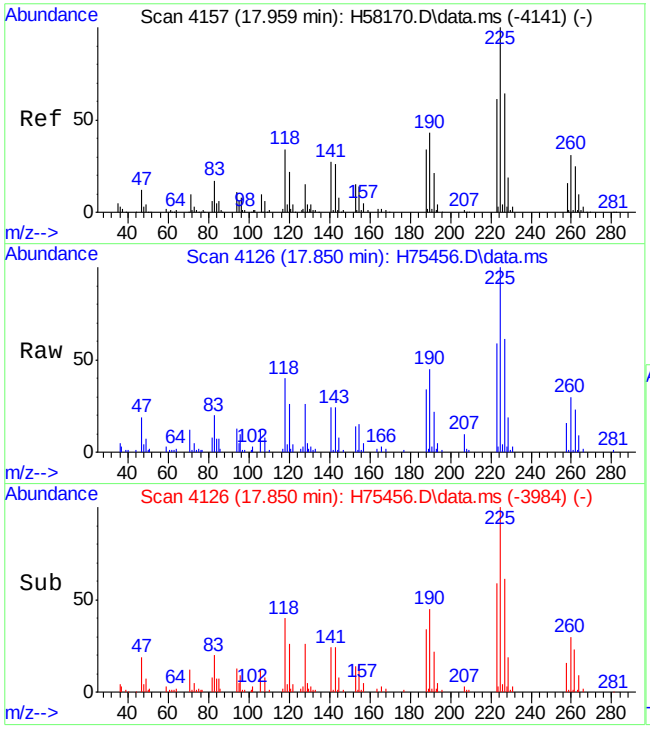
Tgt Ion:180 Resp: 56979

Ion	Ratio	Lower	Upper
180	100		
182	94.9	62.6	122.6



7.4.2

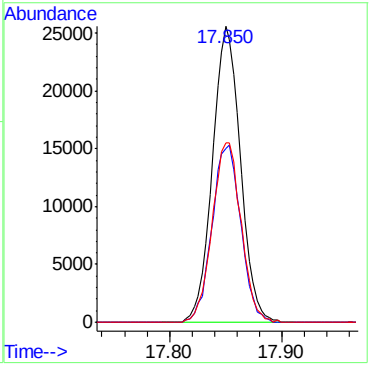
7

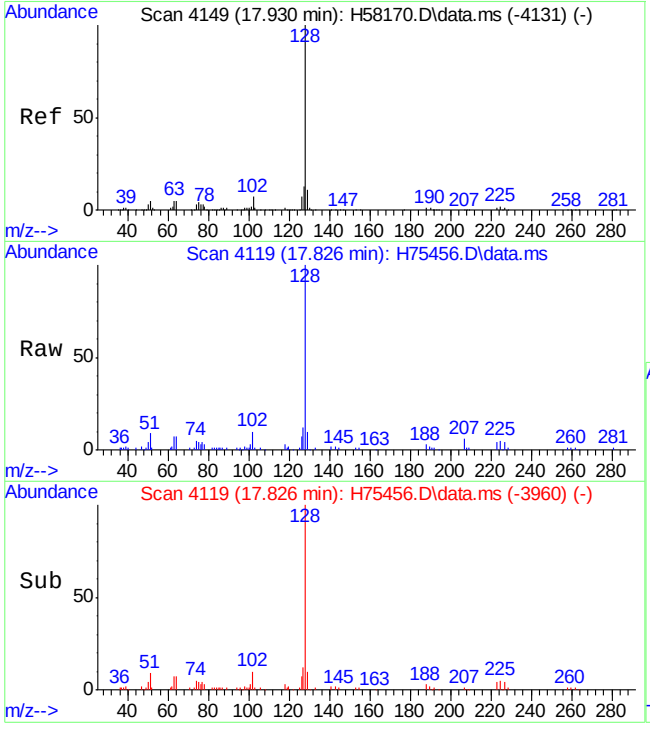


#101
hexachlorobutadiene
Concen: 53.54 ug/L
RT: 17.850 min Scan# 4126
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:225 Resp: 44428

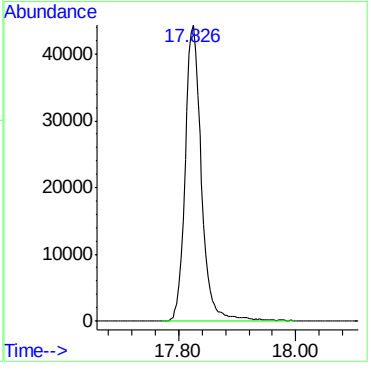
Ion	Ratio	Lower	Upper
225	100		
223	58.6	29.7	89.7
227	60.7	32.4	92.4

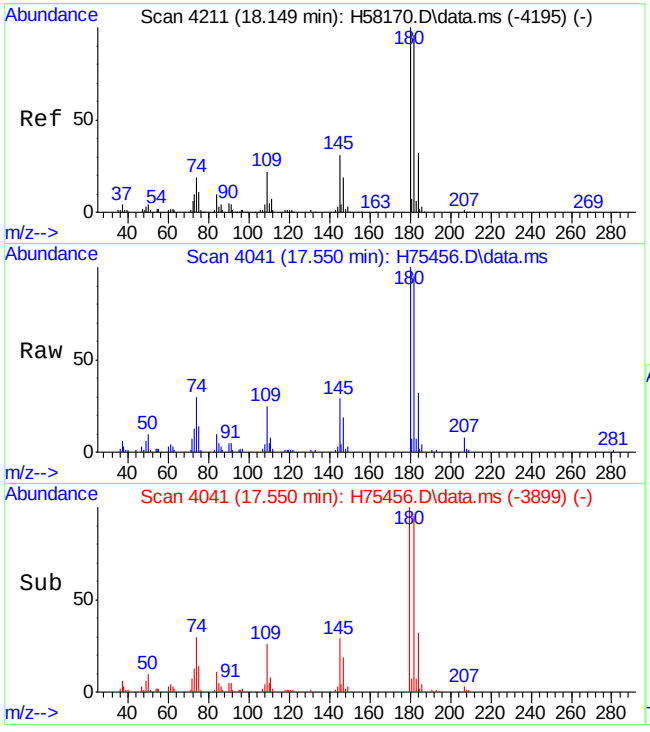




#102
naphthalene
Concen: 49.75 ug/L
RT: 17.826 min Scan# 4119
Delta R.T. 0.002 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:128 Resp: 84650

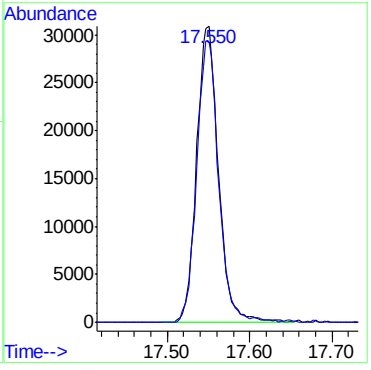




#103
1,2,3-trichlorobenzene
Concen: 50.26 ug/L
RT: 17.550 min Scan# 4041
Delta R.T. 0.001 min
Lab File: H75456.D
Acq: 7 Oct 15 8:50 pm

Tgt Ion:180 Resp: 56979

Ion	Ratio	Lower	Upper
180	100		
182	94.9	64.3	124.3



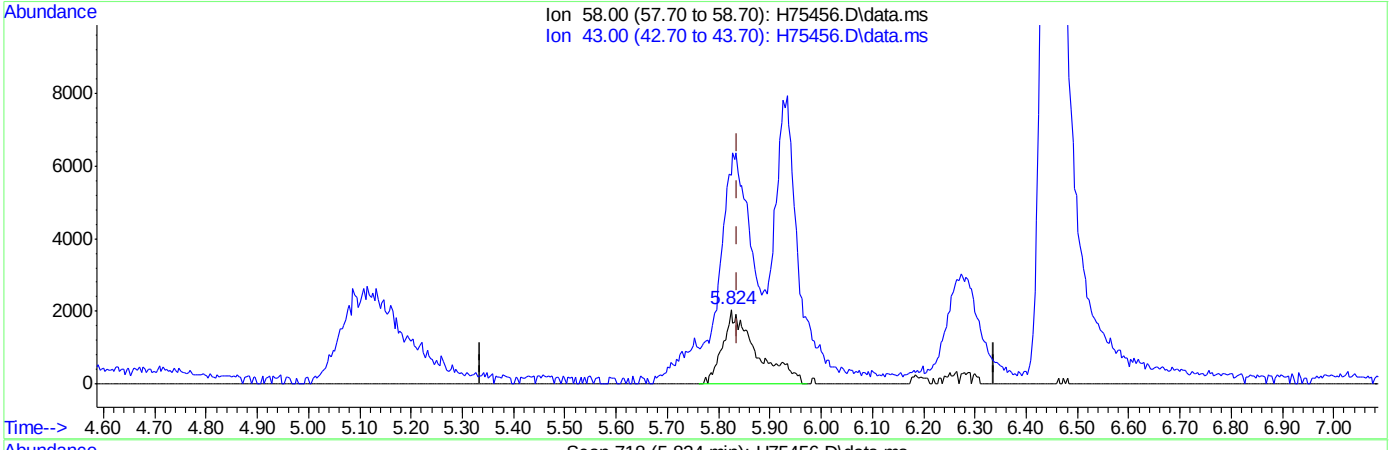
7.4.2

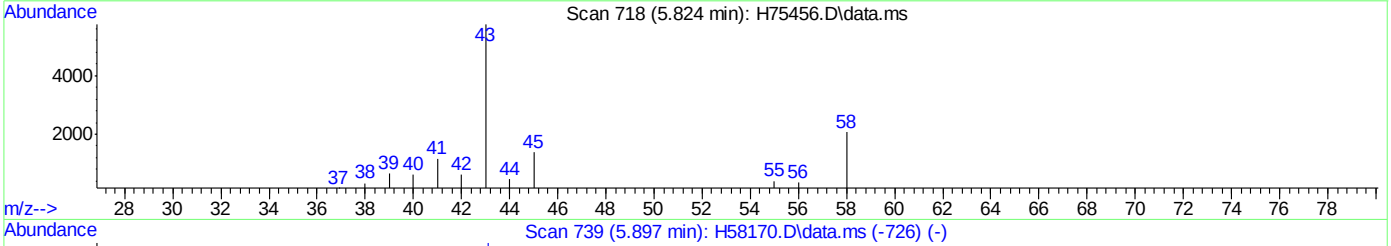
7

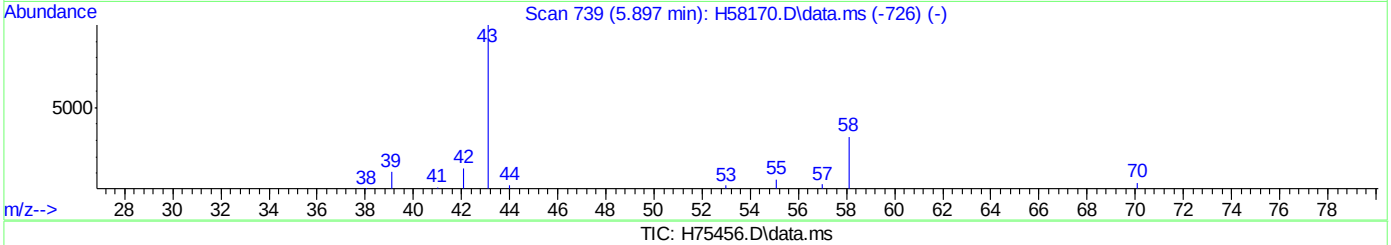
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:36:39 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75456.D\data.ms

(15) acetone (p)

5.824min (-0.013) 54.76ug/L

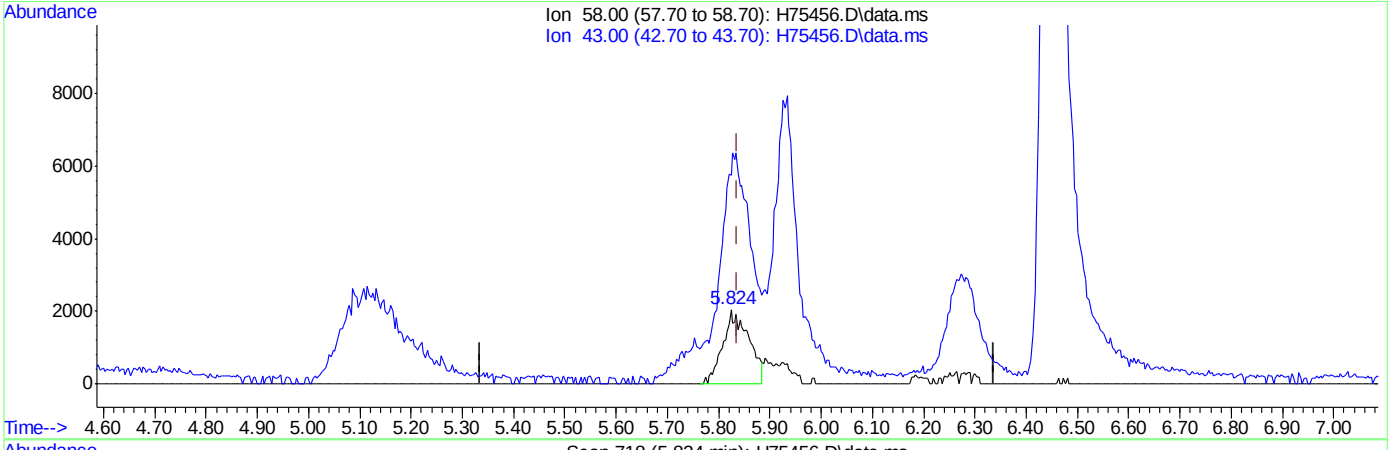
response 9309

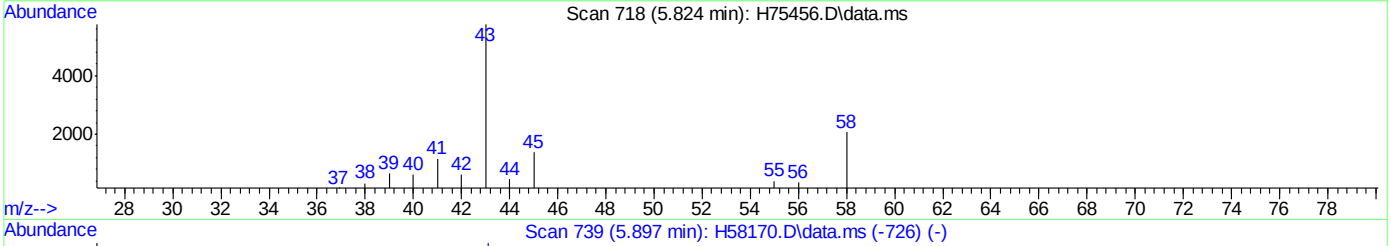
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	230.63#
0.00	0.00	0.00
0.00	0.00	0.00

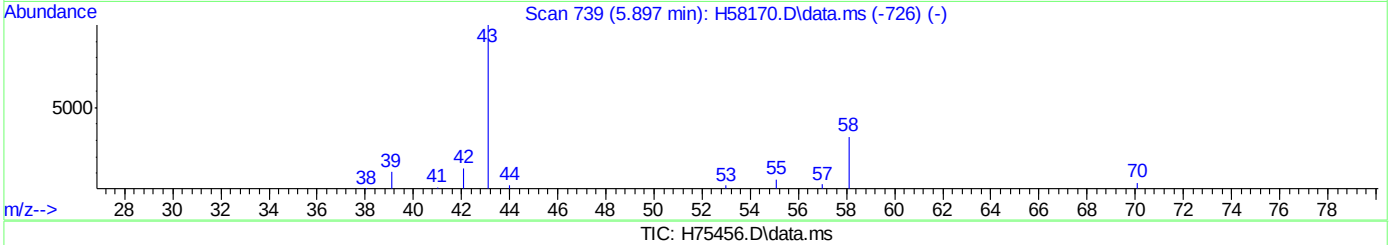
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:36:39 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75456.D\data.ms

(15) acetone (p)

5.824min (-0.013) 42.18ug/L m

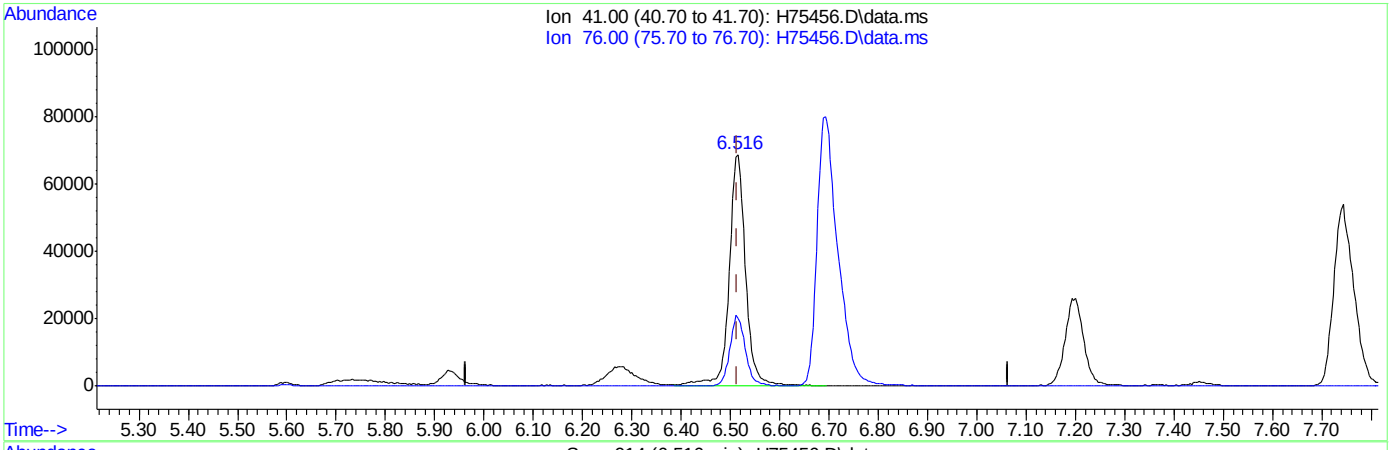
response 7170

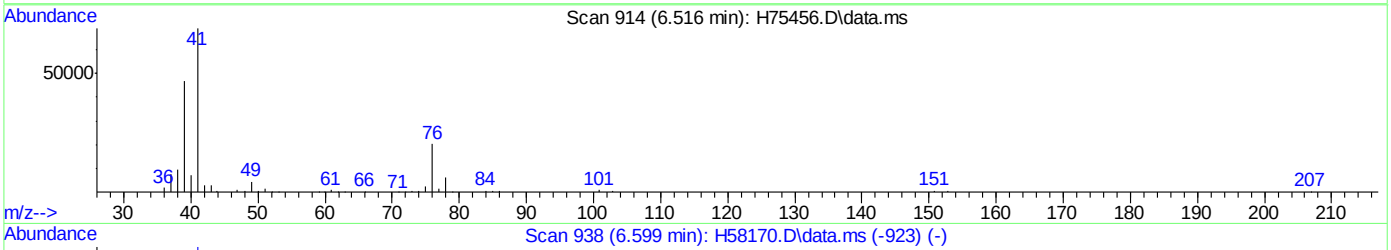
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	279.34
0.00	0.00	0.00
0.00	0.00	0.00

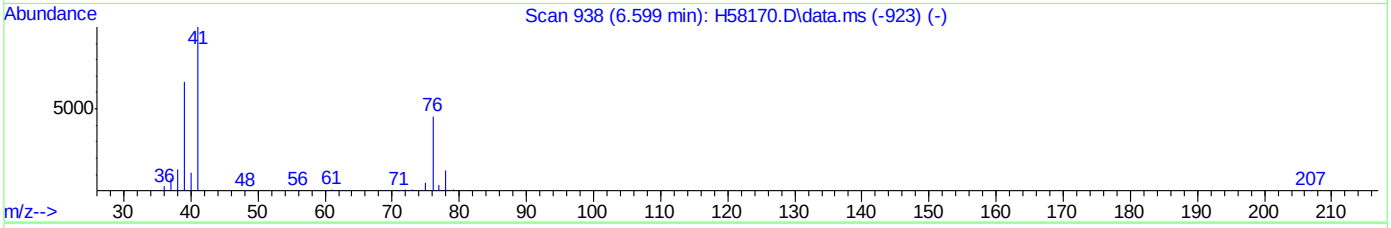
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:36:39 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75456.D\data.ms

(21) allyl chloride (p)

6.516min (+0.001) 56.72ug/L

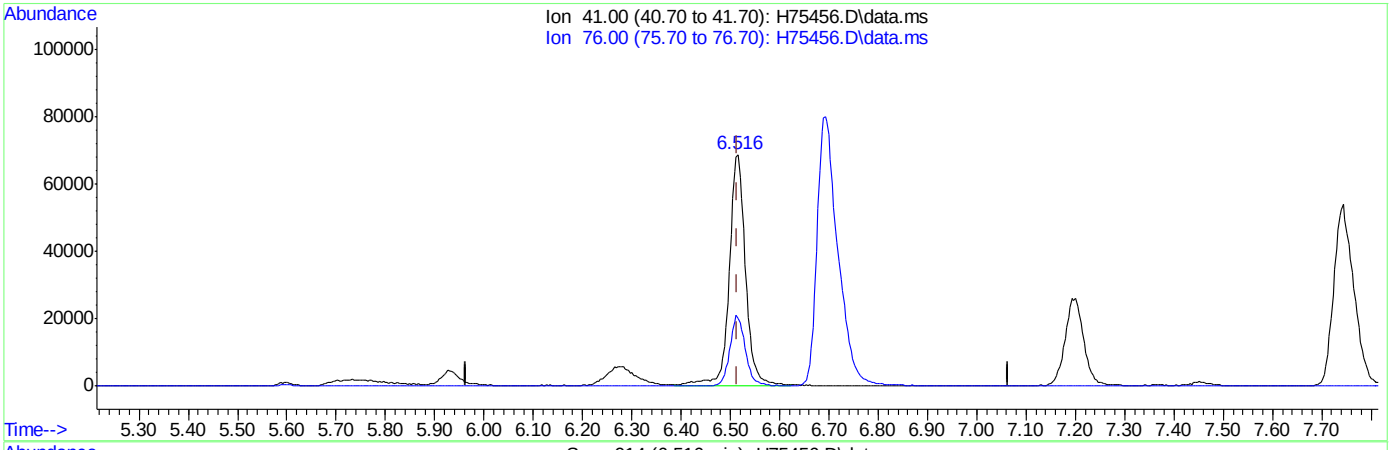
response 160779

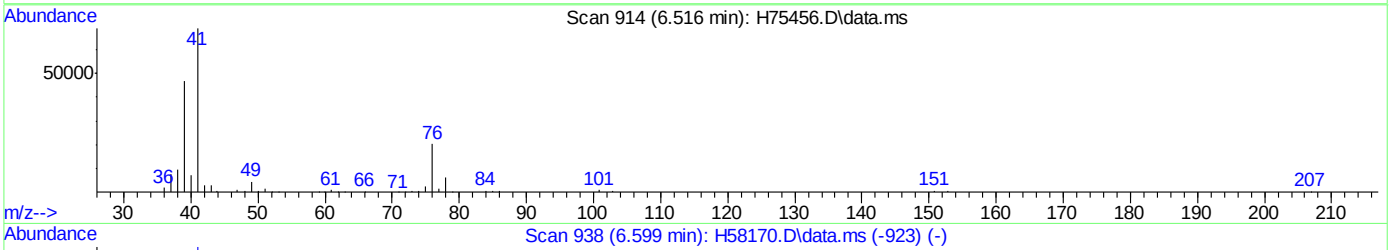
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	29.44
0.00	0.00	0.00
0.00	0.00	0.00

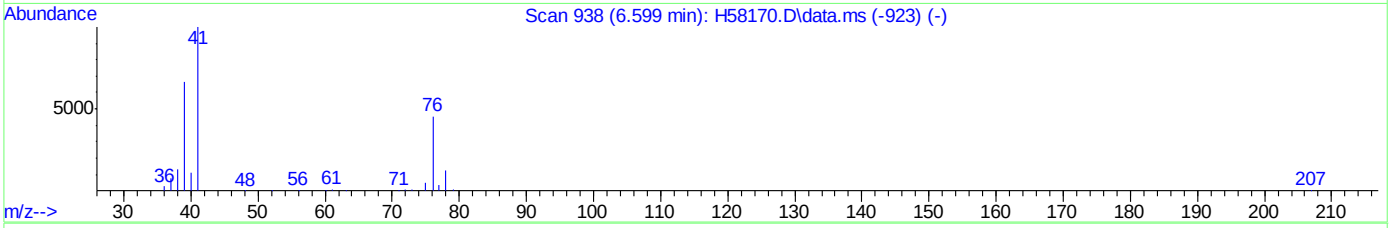
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75456.D
Acq On : 7 Oct 2015 8:50 pm
Operator : kaylap
Sample : mc41757-3msd
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 08 08:36:39 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75456.D\data.ms

(21) allyl chloride (p)

6.516min (+0.001) 56.32ug/L m

response 159642

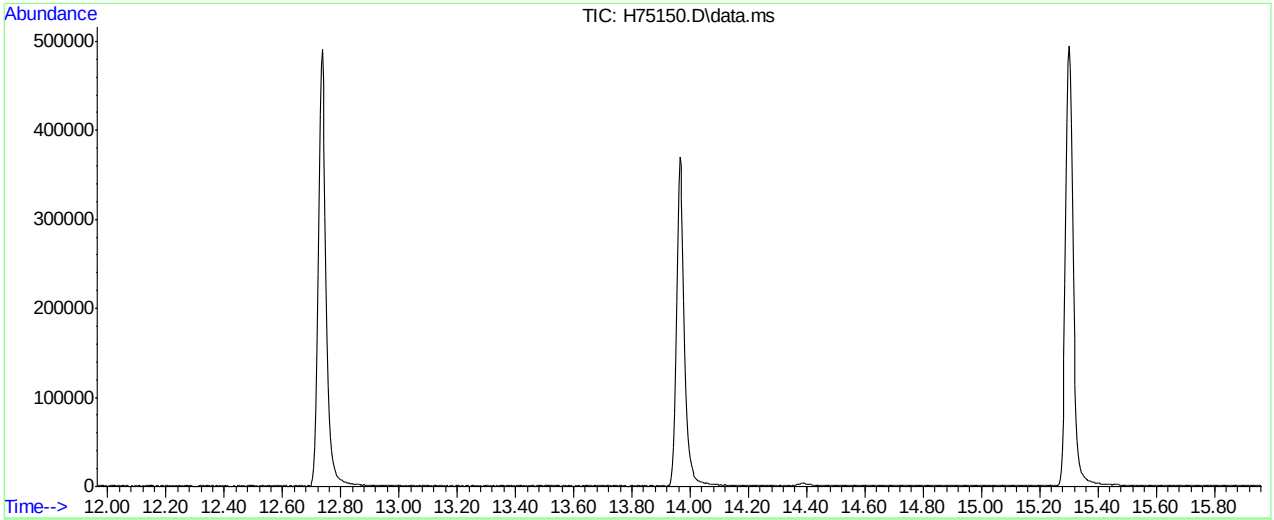
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	29.44
0.00	0.00	0.00
0.00	0.00	0.00

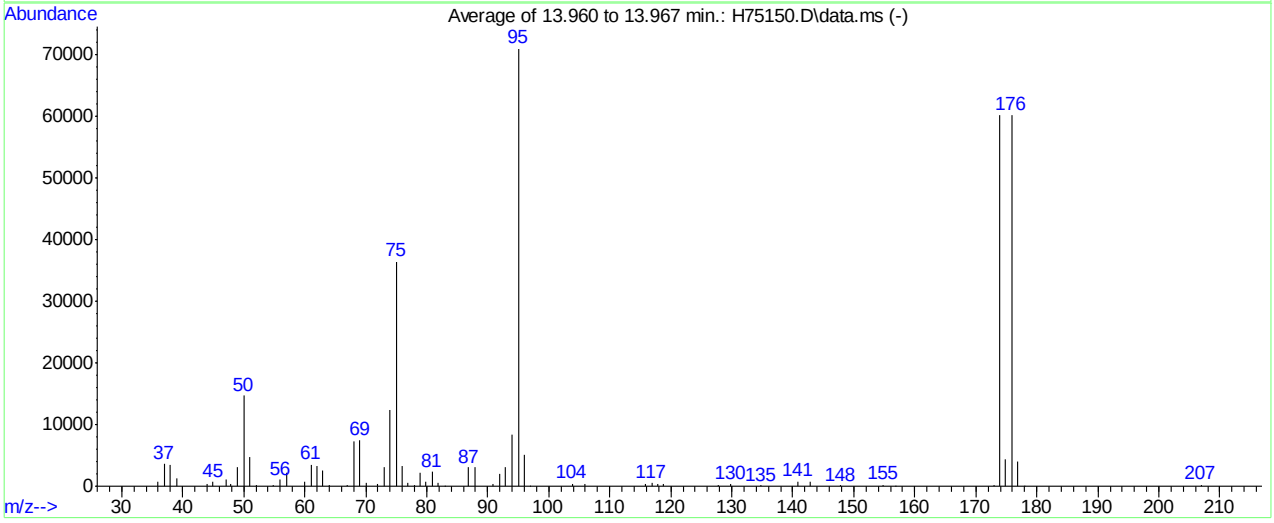
H75456.D edits: allyl chloride

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\H150925\H75150.D Vial: 2
Acq On : 25 Sep 2015 2:56 pm Operator: kaylap
Sample : bfb Inst : MSH
Misc : ms35288,msh2500,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title : SW-846 Method 8260





Spectrum Information: Average of 13.960 to 13.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	14709	PASS
75	95	30	60	51.3	36365	PASS
95	95	100	100	100.0	70914	PASS
96	95	5	9	7.2	5116	PASS
173	174	0.00	2	0.2	145	PASS
174	95	50	150	84.8	60112	PASS
175	174	5	9	7.4	4433	PASS
176	174	95	101	100.1	60160	PASS
177	176	5	9	6.7	4035	PASS

H75150.D H150925W.M Mon Sep 28 11:40:06 2015

Average of 13.960 to 13.967 min.: H75150.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	649	52.00	210	69.00	7458	80.90	2313
37.00	3610	54.90	159	70.00	530	81.85	500
38.00	3404	56.00	1085	71.90	291	82.90	58
39.00	1314	57.00	2189	73.00	3107	86.90	3084
44.00	431	60.00	692	74.00	12312	87.90	3023
45.00	702	61.00	3477	75.00	36365	90.90	286
47.05	1055	62.00	3226	76.00	3329	91.95	2081
47.95	433	63.00	2569	76.90	489	92.95	3066
49.00	3067	63.95	243	77.95	242	94.00	8399
50.00	14709	66.90	189	78.90	2119	95.00	70914
51.00	4645	68.00	7347	79.90	670	96.00	5116

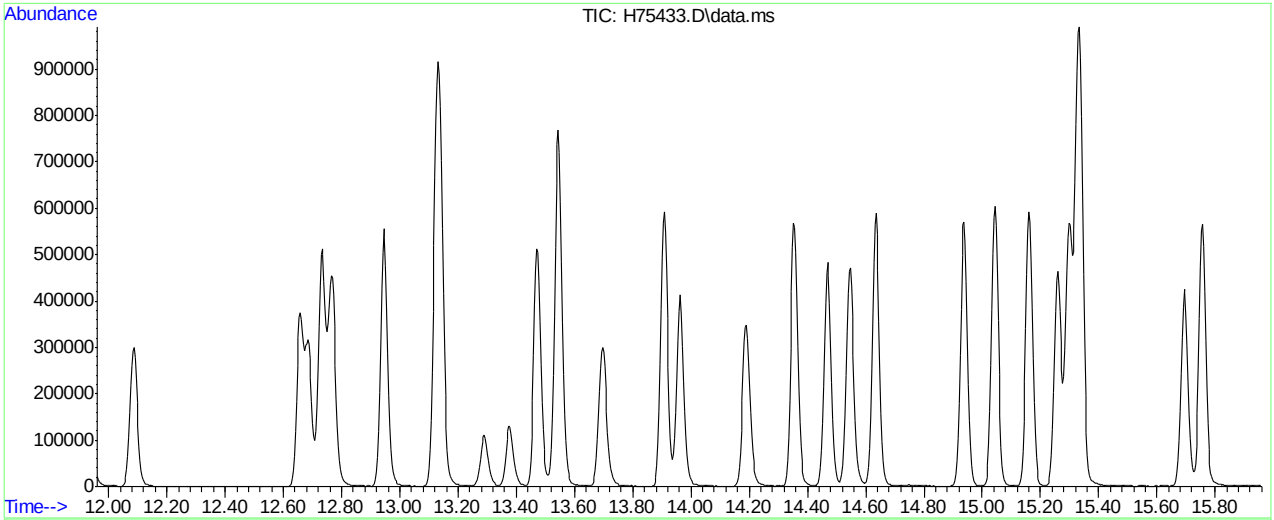
Average of 13.960 to 13.967 min.: H75150.D\data.ms
bfb
Modified:subtracted

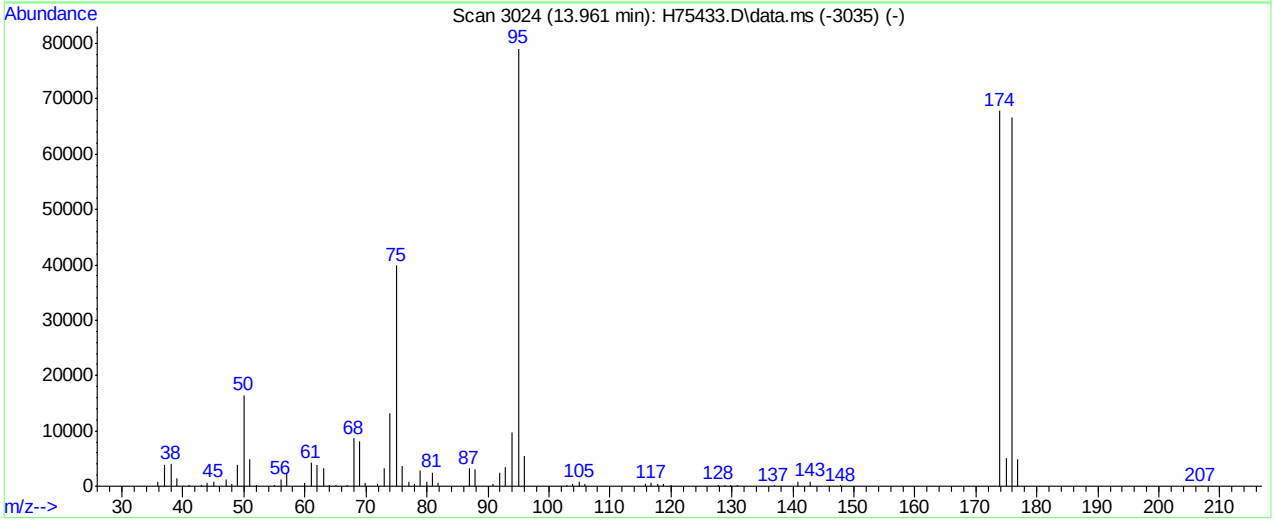
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.90	57	142.90	739				
103.85	419	147.85	182				
105.85	396	154.85	189				
115.85	282	156.90	55				
116.90	487	172.90	145				
117.80	288	173.90	60112				
118.85	377	174.90	4433				
127.85	259	175.90	60160				
129.85	293	176.90	4035				
134.80	105	177.90	55				
140.90	766	206.90	215				

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\H151007\H75433.D Vial: 1
Acq On : 7 Oct 2015 10:39 am Operator: kaylap
Sample : bfb Inst : MSH
Misc : ms35377,msh2511,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H150925W.M (RTE Integrator)
Title : SW-846 Method 8260





Spectrum Information: Scan 3024

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	16415	PASS
75	95	30	60	50.4	39864	PASS
95	95	100	100	100.0	79096	PASS
96	95	5	9	7.0	5508	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	85.8	67839	PASS
175	174	5	9	7.3	4980	PASS
176	174	95	101	98.2	66620	PASS
177	176	5	9	7.3	4856	PASS

H75433.D H150925W.M Wed Oct 07 11:03:53 2015

Scan 3024 (13.961 min): H75433.D\data.ms (-3035)
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	790	49.00	3840	63.90	270	77.00	725
37.00	3904	50.00	16415	65.00	175	77.90	471
38.00	3968	51.00	4884	67.00	230	78.90	2754
39.00	1445	52.00	224	67.95	8666	79.90	762
39.90	13	55.00	265	69.00	8071	80.90	2535
41.00	186	56.00	1256	69.90	643	81.90	591
43.10	219	57.00	2350	71.90	368	86.90	3217
43.90	519	60.00	676	73.00	3323	87.90	2964
45.00	809	61.00	4204	74.00	13246	90.90	508
47.00	1125	62.00	3892	75.00	39864	92.00	2527
48.00	441	63.00	3149	76.00	3755	92.90	3431

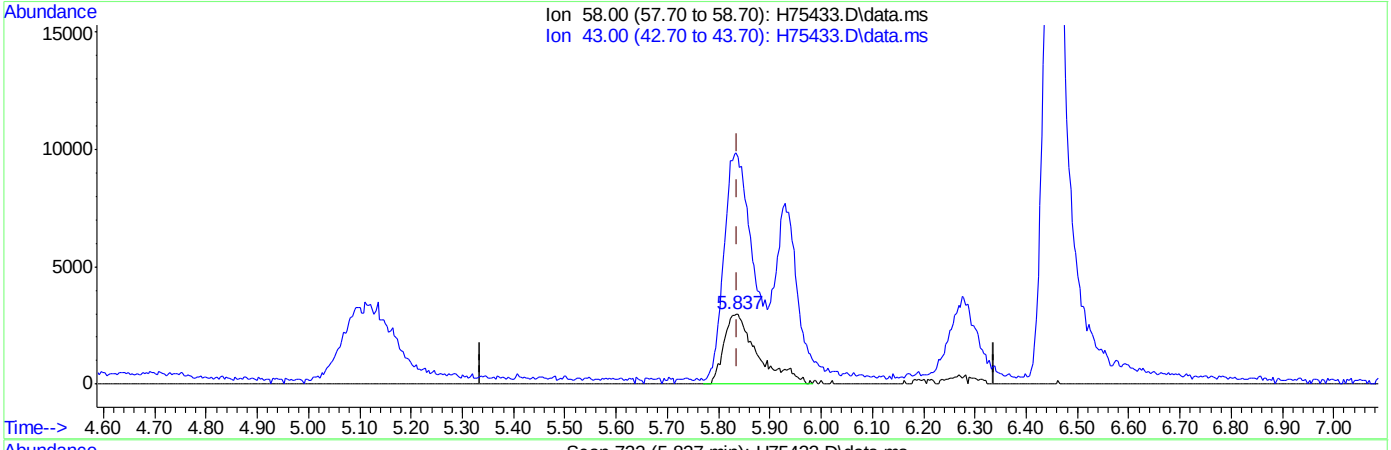
Scan 3024 (13.961 min): H75433.D\data.ms (-3035)
bfb
Modified:subtracted

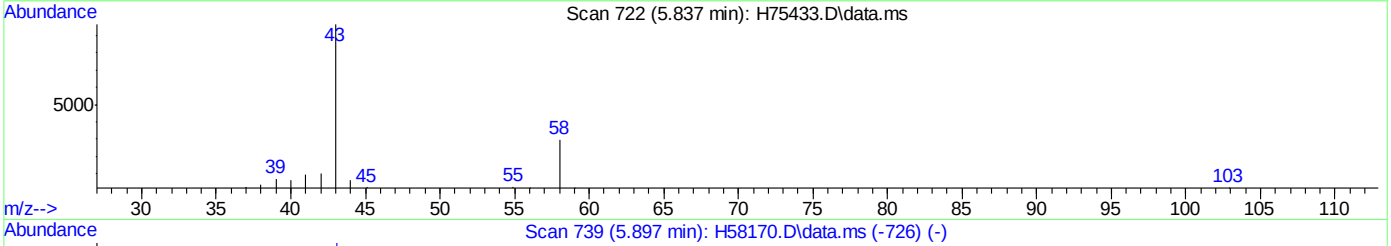
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.95	9665	120.00	259	175.90	66620		
95.00	79096	127.80	258	176.85	4856		
95.95	5508	128.80	179	206.90	87		
103.00	210	129.80	258				
103.90	461	130.80	171				
105.00	742	136.90	163				
105.80	386	140.90	786				
115.90	368	142.90	891				
116.80	528	147.80	199				
117.90	327	173.90	67839				
118.80	456	174.90	4980				

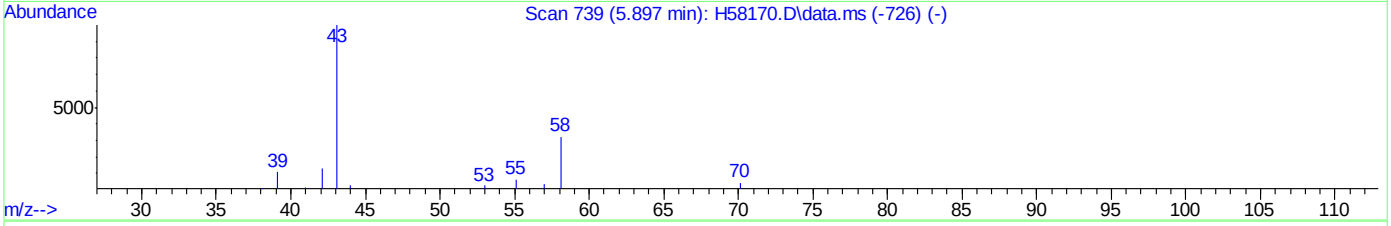
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(15) acetone (p)

5.837min (+0.000) 74.46ug/L

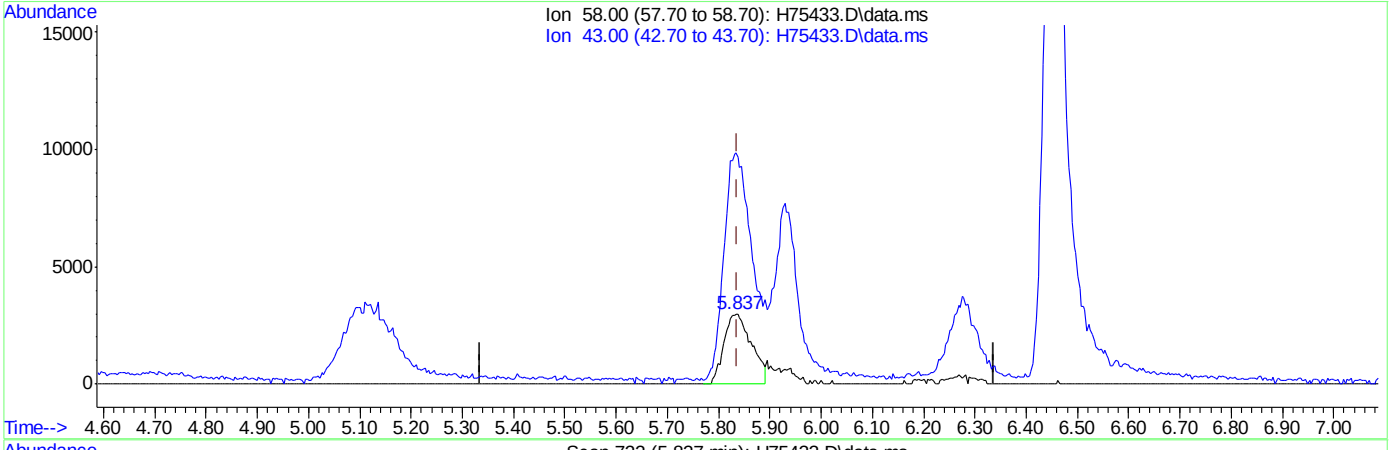
response 13656

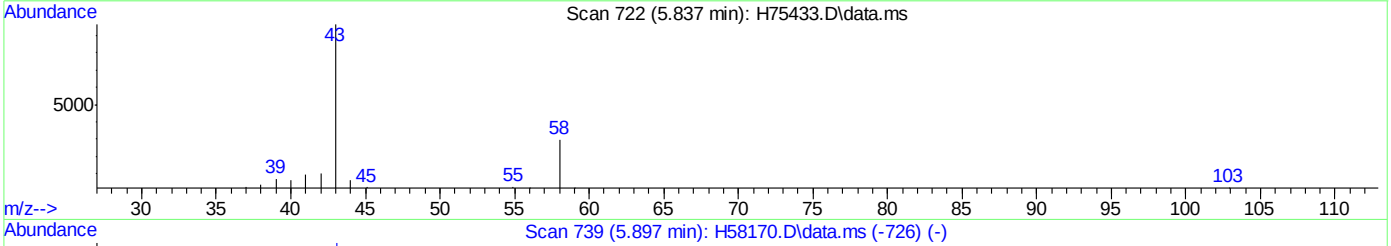
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	318.70
0.00	0.00	0.00
0.00	0.00	0.00

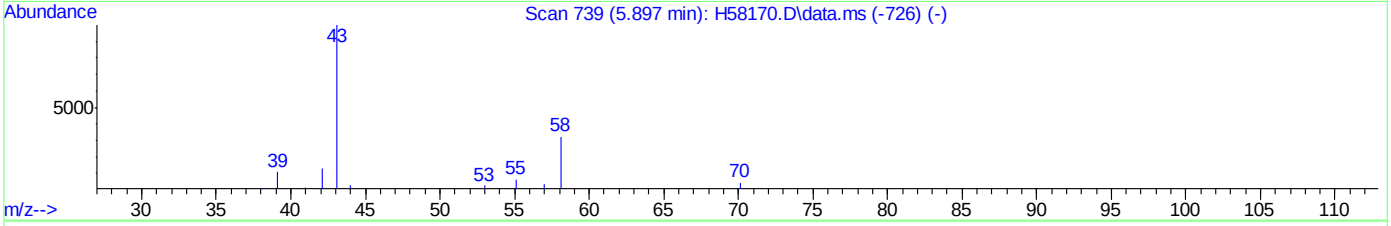
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(15) acetone (p)

5.837min (+0.000) 60.80ug/L m

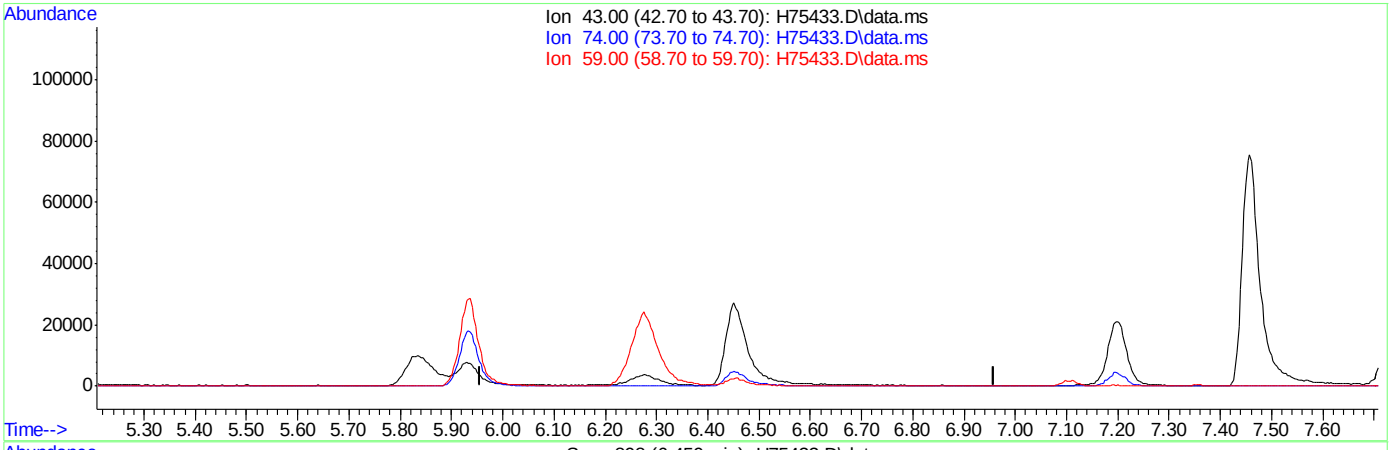
response 11150

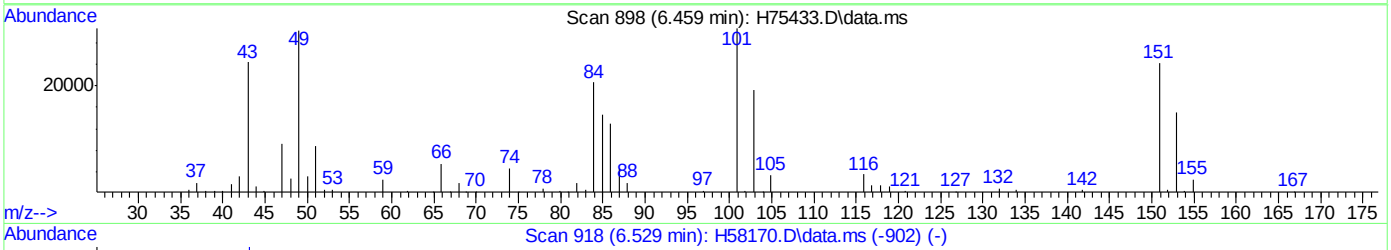
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	324.08
0.00	0.00	0.00
0.00	0.00	0.00

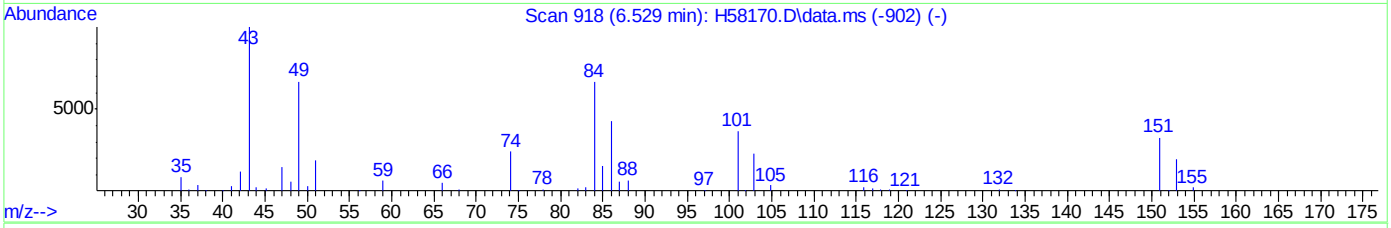
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(17) methyl acetate (p)

6.458min (-6.458) 0.00ug/L

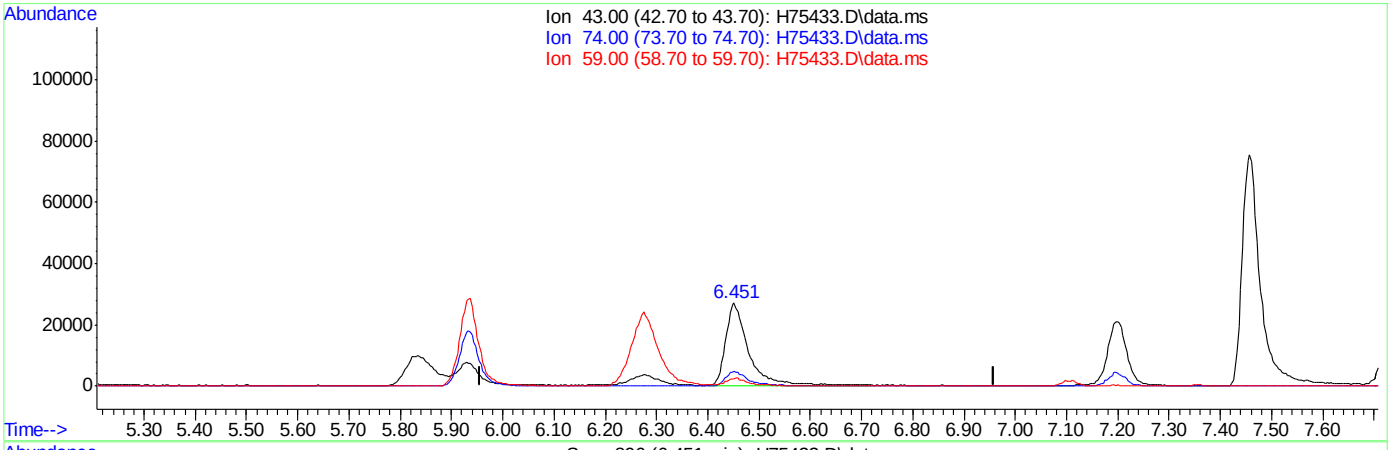
response 0

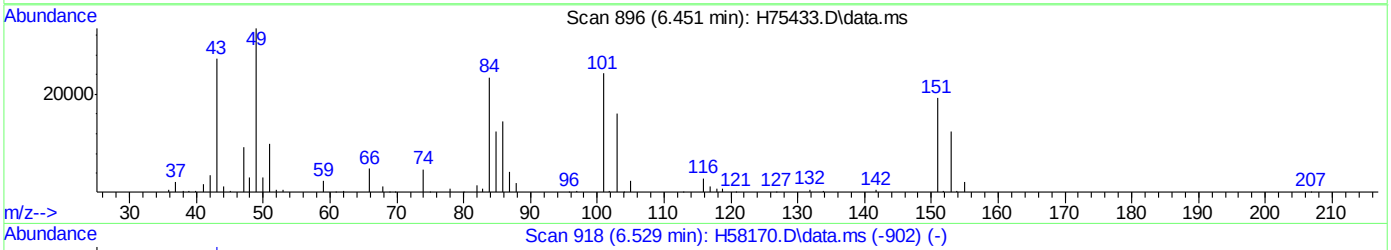
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

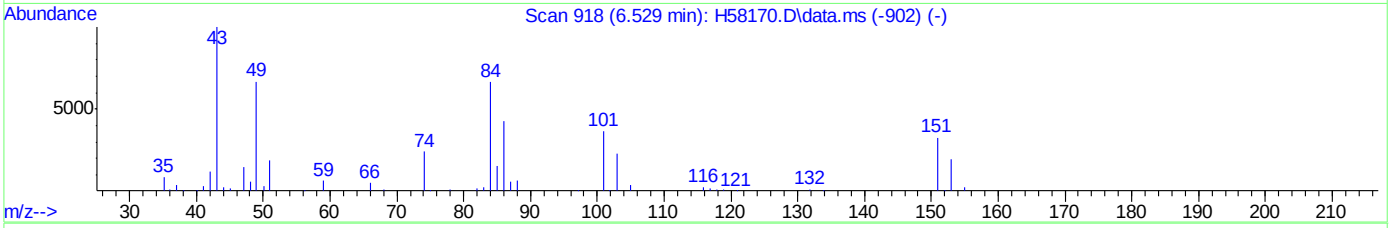
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(17) methyl acetate (p)

6.451min (-0.007) 51.62ug/L m

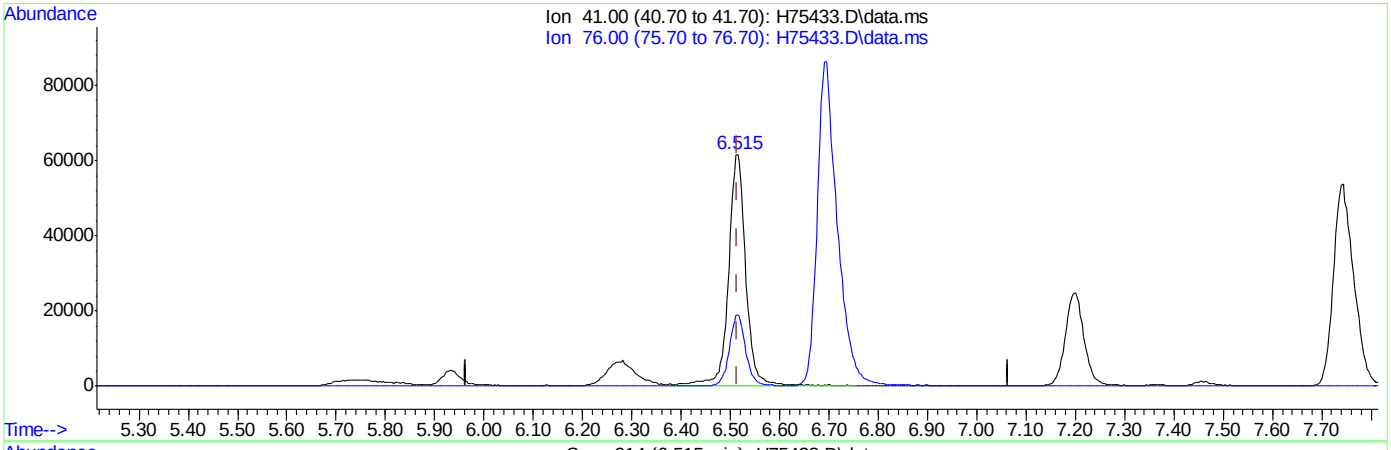
response 86943

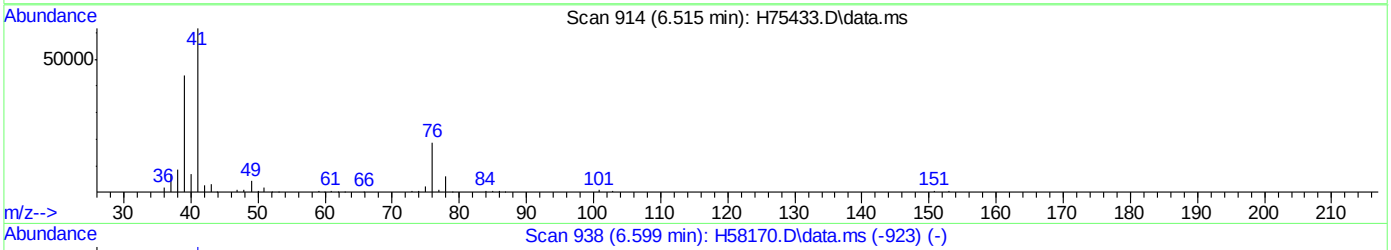
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	17.72
59.00	13.30	8.69
0.00	0.00	0.00

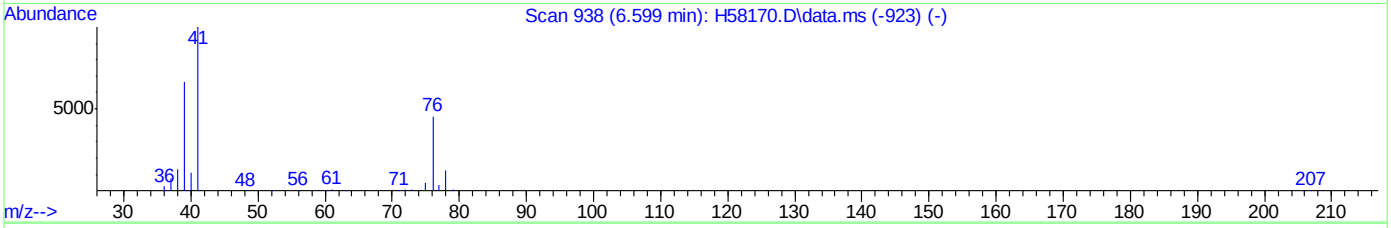
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 49.65ug/L

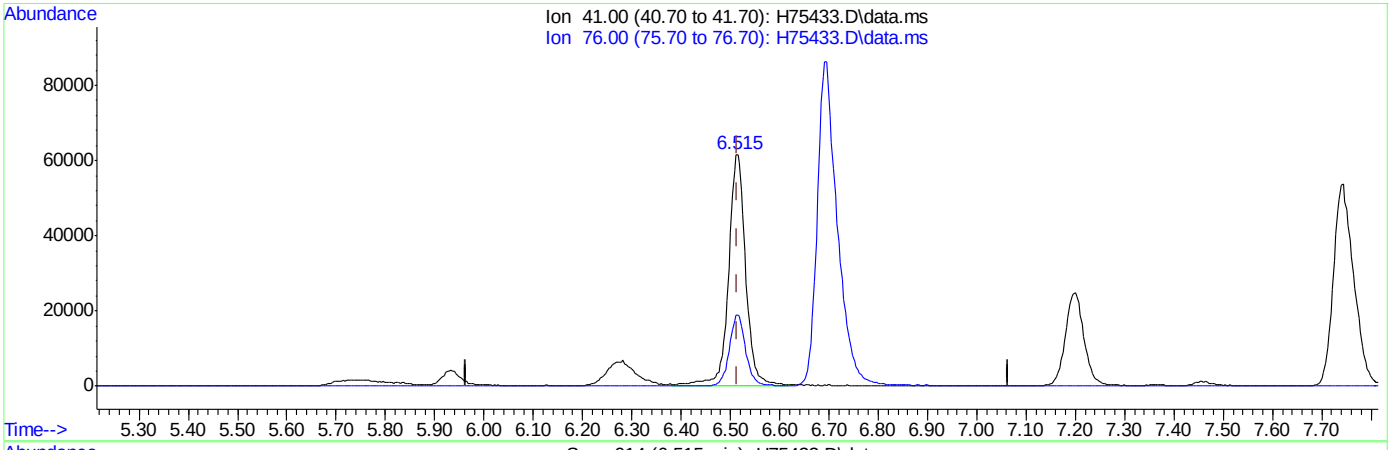
response 151829

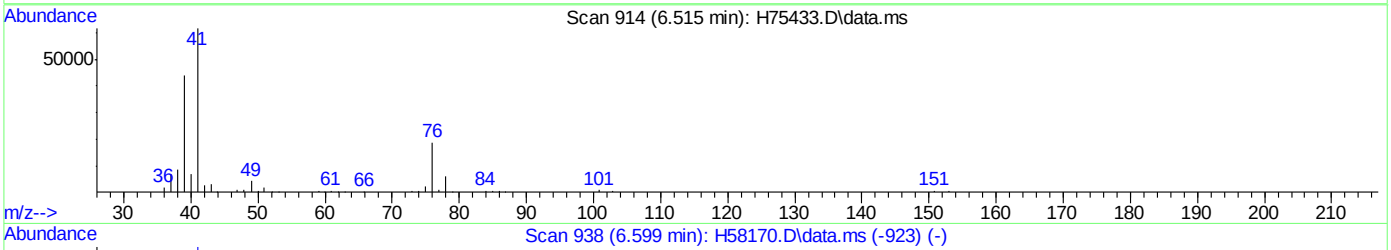
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.67
0.00	0.00	0.00
0.00	0.00	0.00

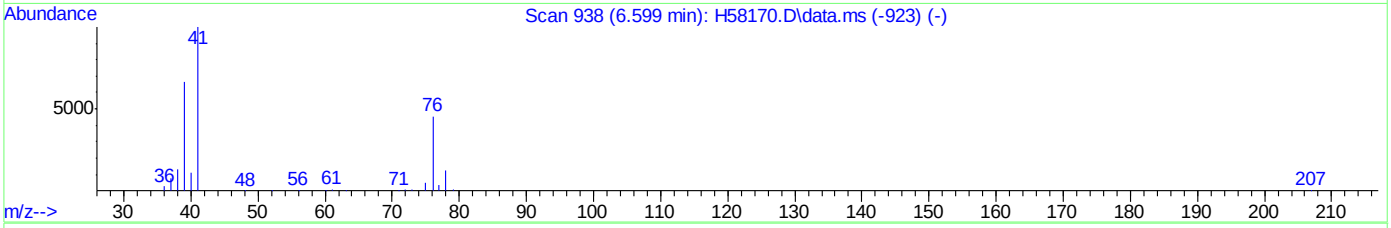
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 49.09ug/L m

response 150131

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.67
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:57:14 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.196	65	74469	500.00	ug/L	0.00
4) pentafluorobenzene	8.613	168	184221	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.481	114	291741	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	163169	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	148275m	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	95292	51.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.52%			
60) toluene-d8 (s)	11.277	98	355323	50.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.28%			
82) bromofluorobenzene (s)	13.962	95	142320	50.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.64%			
Target Compounds						Qvalue
46) benzene	9.287	78	3548	0.50	ug/L	92
51) trichloroethene	9.908	95	792	0.41	ug/L #	81
59) cis-1,3-dichloropropene	10.589	75	1028	0.37	ug/L	47
63) trans-1,3-dichloropropene	11.019	75	746	0.28	ug/L	51
67) tetrachloroethene	12.099	166	785	0.42	ug/L #	70
69) dibromochloromethane	11.693	129	488m	0.30	ug/L	
75) m,p-xylene	13.154	106	2479	0.80	ug/L #	76
76) o-xylene	13.553	106	1324	0.43	ug/L	85
84) 1,1,2,2-tetrachloroethane	13.564	83	811	0.41	ug/L	72

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

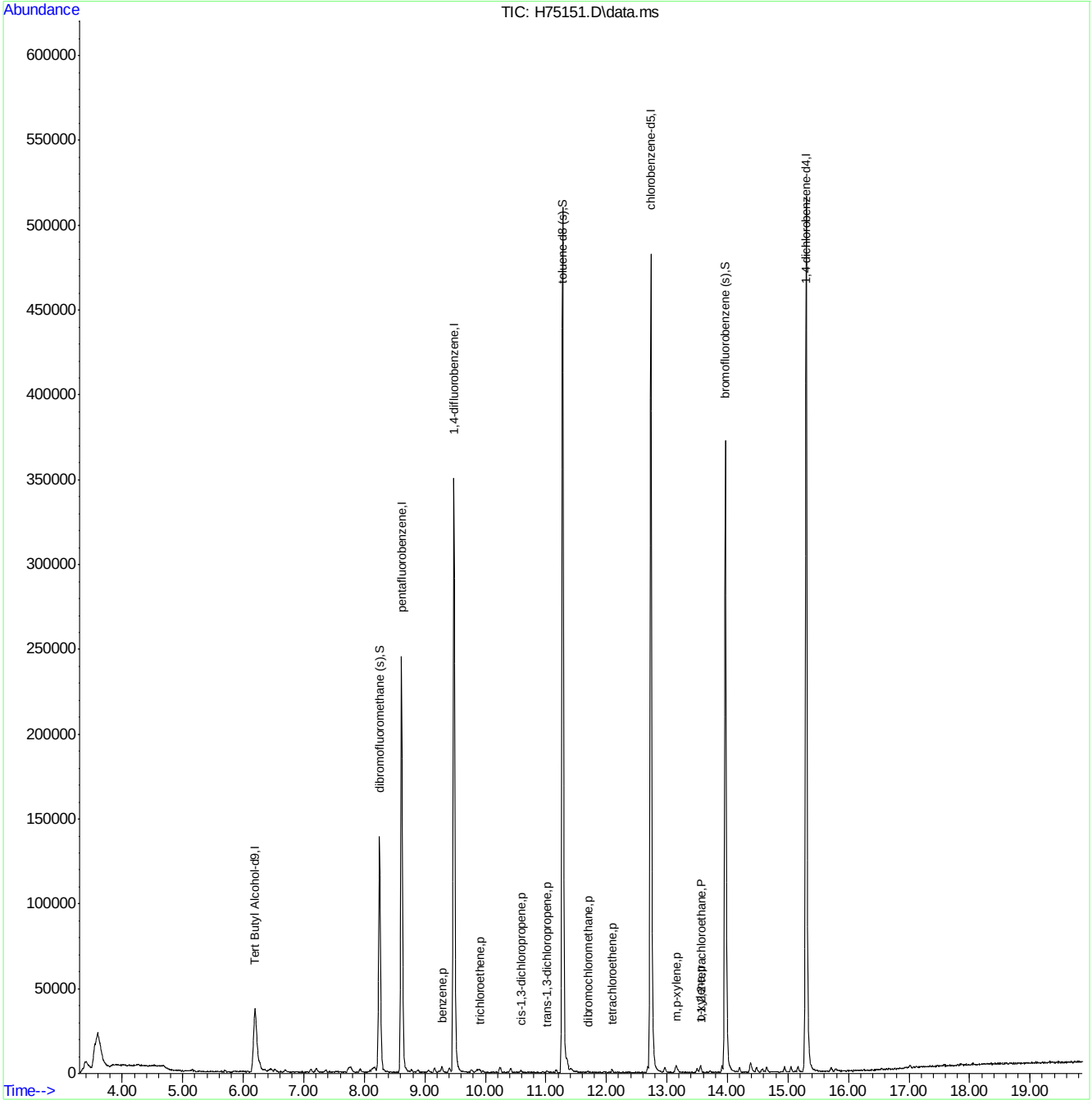
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:57:14 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration

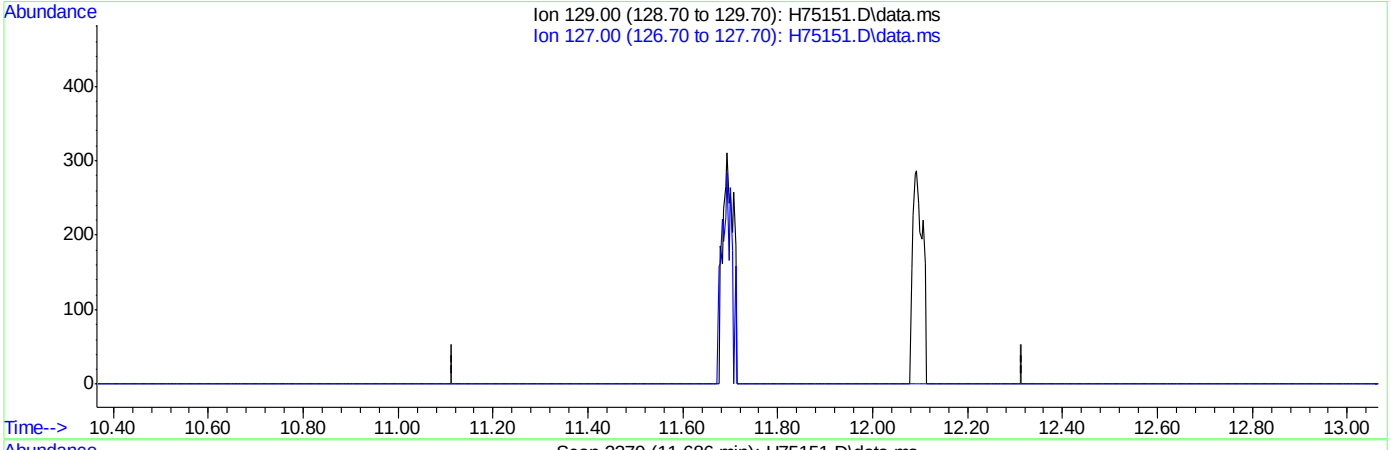


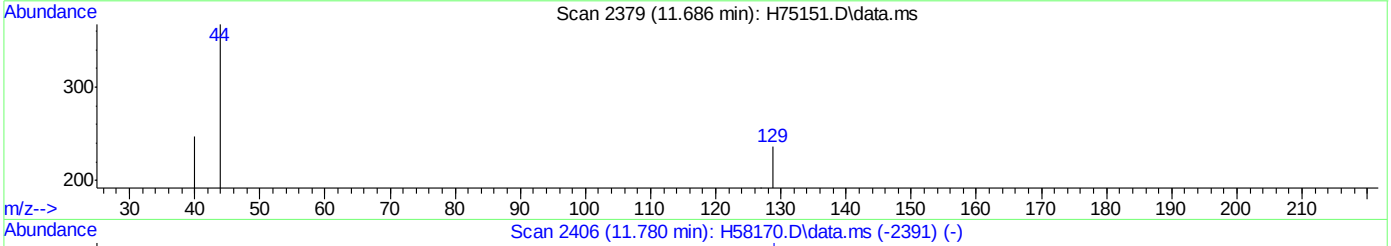
ACCUTEST LABORATORIES MC41757

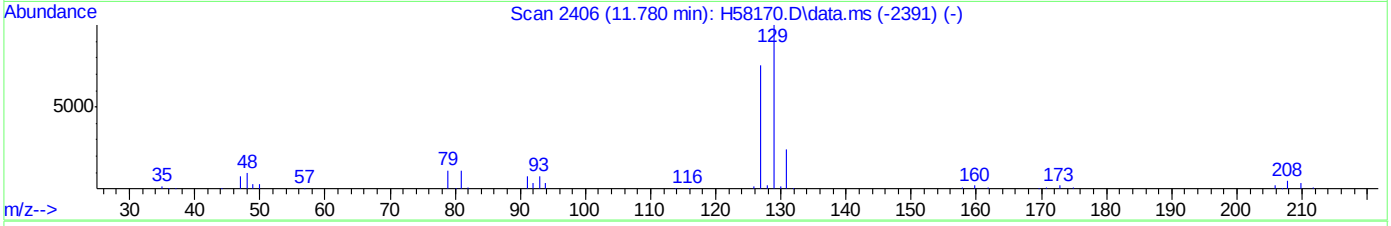
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(69) dibromochloromethane (p)

11.685min (-11.685) 0.00ug/L

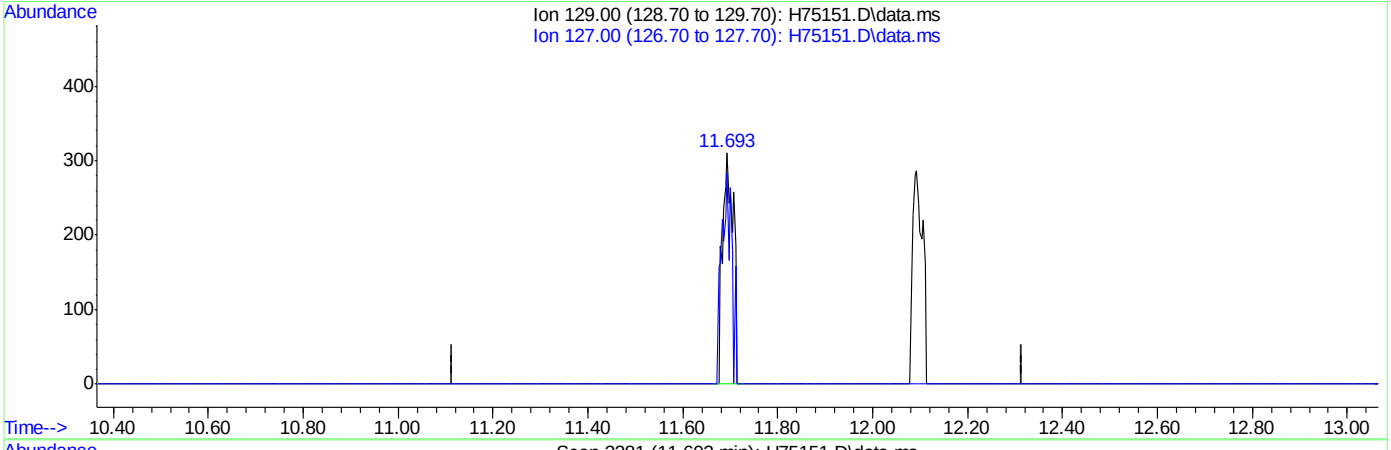
response 0

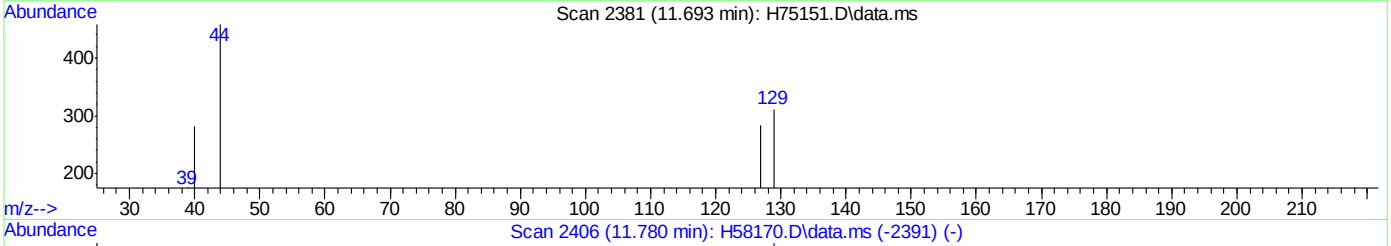
Ion	Exp%	Act%
129.00	100	0.00
127.00	78.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

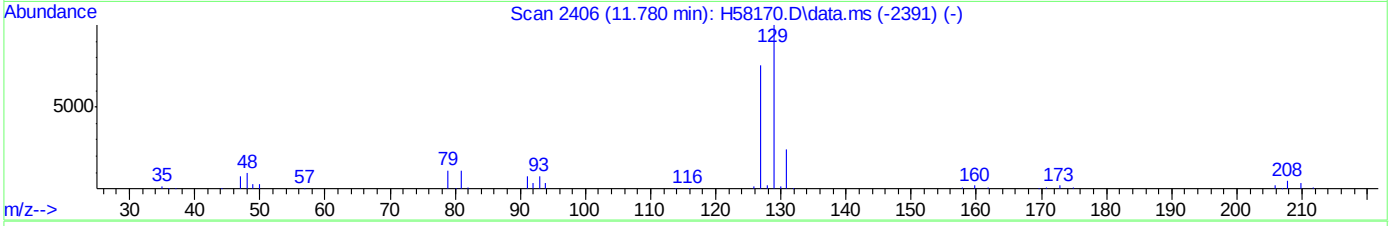
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(69) dibromochloromethane (p)

11.693min (+0.008) 0.30ug/L m

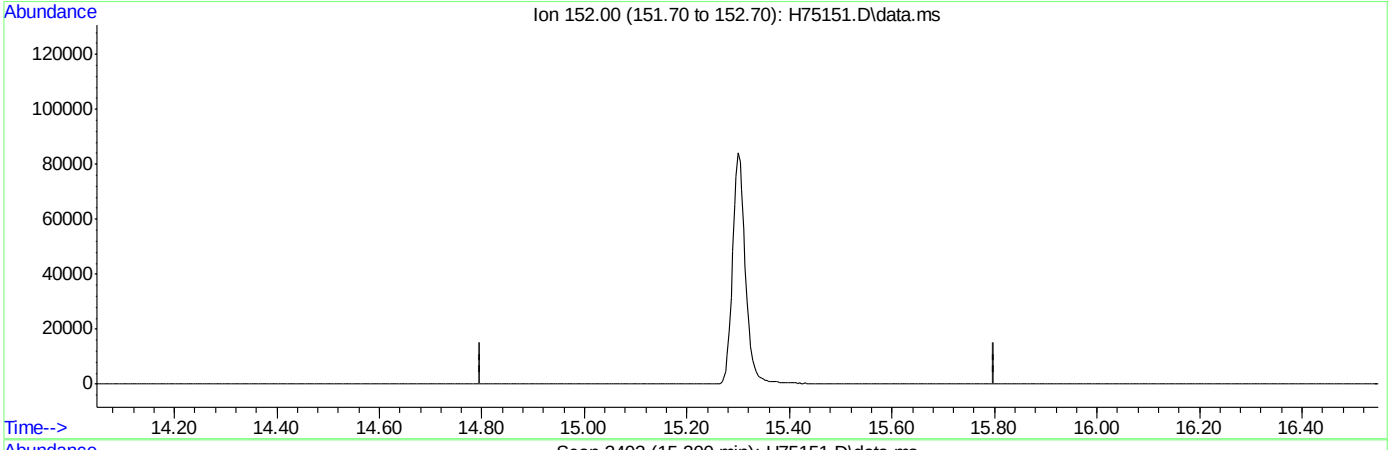
response 488

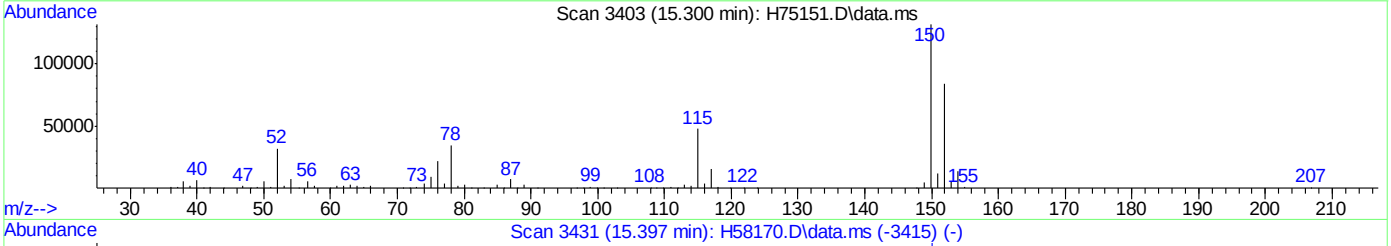
Ion	Exp%	Act%
129.00	100	100
127.00	78.10	91.00
0.00	0.00	0.00
0.00	0.00	0.00

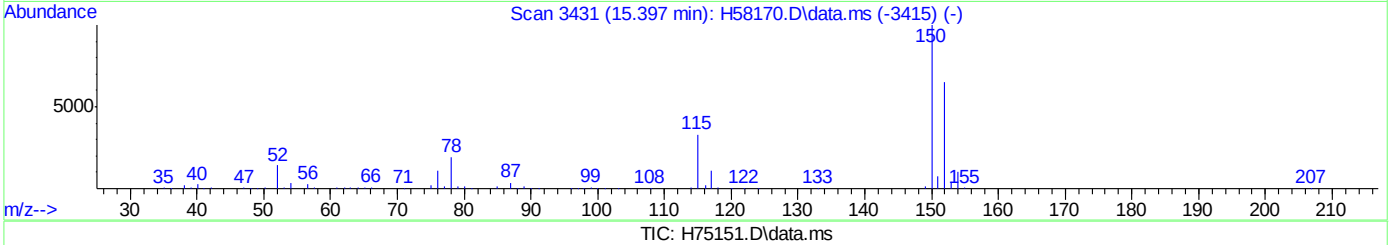
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(80) 1,4-dichlorobenzene-d4 (I)

15.299min 0.00ug/L d

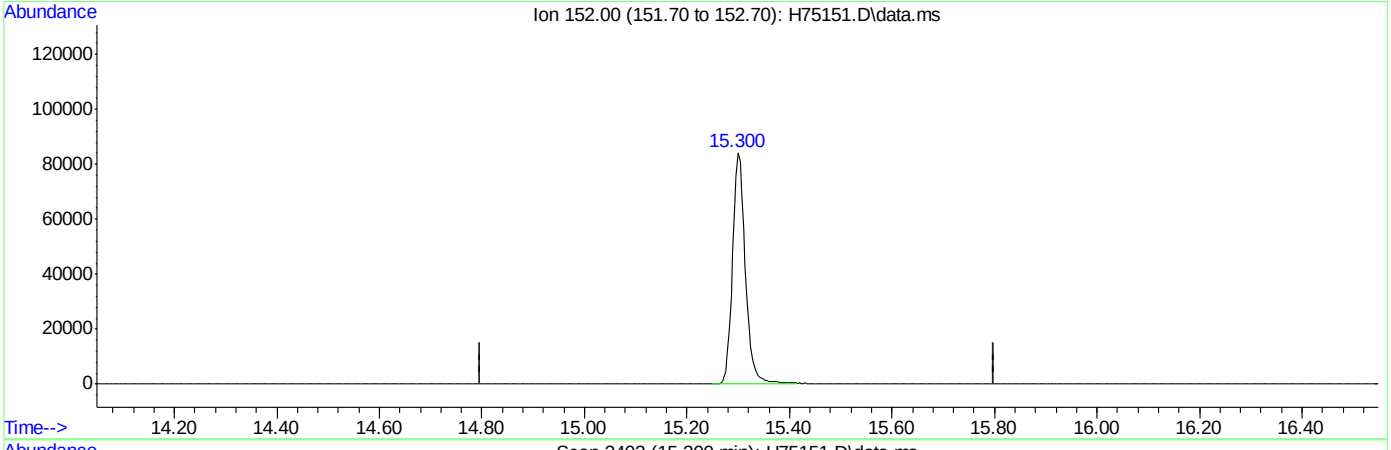
response 0

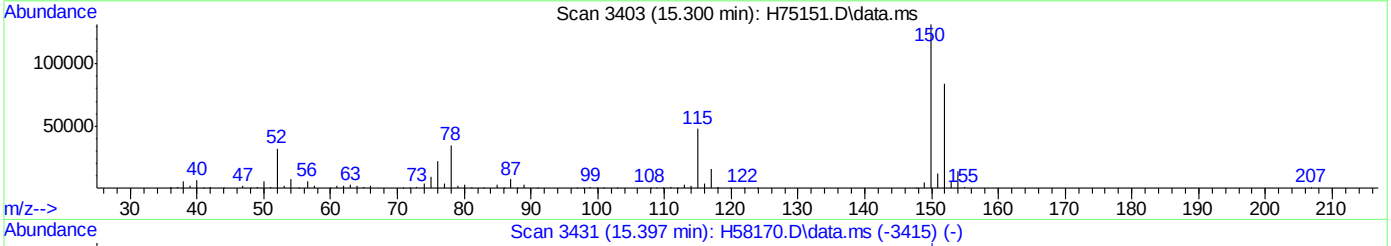
Ion	Exp%	Act%
152.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

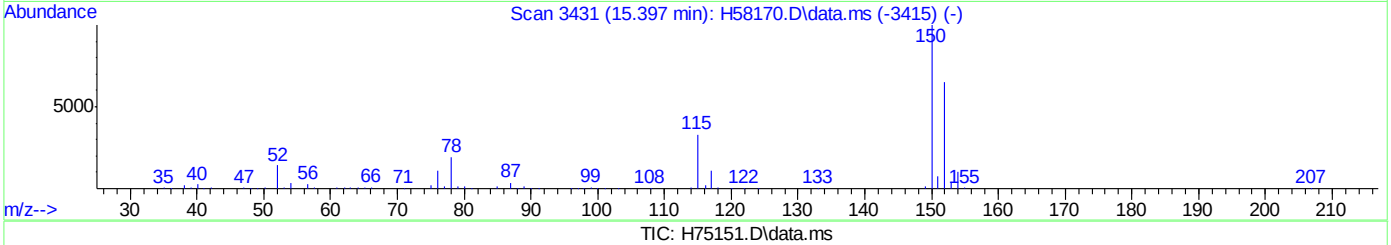
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75151.D
Acq On : 25 Sep 2015 3:22 pm
Operator : kaylap
Sample : ic2500-0.5
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 28 08:53:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:52:10 2015
Response via : Initial Calibration







TIC: H75151.D\data.ms

(80) 1,4-dichlorobenzene-d4 (I)

15.300min (+0.001) 50.00ug/L m

response 148275

Ion	Exp%	Act%
152.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75152.D
Acq On : 25 Sep 2015 3:49 pm
Operator : kaylap
Sample : ic2500-1
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:01:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:57:50 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.197	65	73578	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	187573	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.483	114	296310	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	159481	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	148661	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	97061	50.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.28%			
60) toluene-d8 (s)	11.275	98	347833	48.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.52%			
82) bromofluorobenzene (s)	13.964	95	142094	50.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.40%			
Target Compounds						Qvalue
7) vinyl chloride	4.493	62	1417	0.72	ug/L	97
11) trichlorofluoromethane	5.696	101	2140	0.73	ug/L	91
14) 1,1-dichloroethene	6.279	96	1523	0.97	ug/L	92
19) methyl tert butyl ether	7.203	73	4947	1.03	ug/L	65
22) trans-1,2-dichloroethene	7.118	96	1892	1.11	ug/L	89
31) 1,1-dichloroethane	7.358	63	3862	1.12	ug/L	96
36) cis-1,2-dichloroethene	7.930	96	2064	1.11	ug/L	87
39) chloroform	8.138	83	3931	1.20	ug/L	90
41) 1,1,1-trichloroethane	8.879	97	2818	1.03	ug/L	88
44) carbon tetrachloride	9.243	117	2057	0.89	ug/L	99
46) benzene	9.282	78	7732	1.08	ug/L	95
48) 1,2-dichloroethane	8.784	62	2954	1.12	ug/L	79
51) trichloroethene	9.903	95	1986	1.12	ug/L #	73
53) dibromomethane	9.850	93	1168	0.96	ug/L	94
59) cis-1,3-dichloropropene	10.587	75	2492	1.01	ug/L	99
62) toluene	11.350	92	4588	1.05	ug/L #	75
63) trans-1,3-dichloropropene	11.011	75	1957	0.93	ug/L	51
64) 1,1,2-trichloroethane	11.173	83	1471	1.01	ug/L	80
67) tetrachloroethene	12.094	166	1904	1.14	ug/L	88
69) dibromochloromethane	11.692	129	1294	1.02	ug/L	93
72) chlorobenzene	12.768	112	5551	1.21	ug/L	81
73) 1,1,1,2-tetrachloroethane	12.690	131	1488	1.00	ug/L	90
74) ethylbenzene	12.959	91	7751	1.00	ug/L	90
75) m,p-xylene	13.142	106	5770	2.12	ug/L	99
76) o-xylene	13.551	106	3053	1.08	ug/L	81
78) bromoform	13.290	173	671	0.67	ug/L	88
84) 1,1,2,2-tetrachloroethane	13.555	83	2129	1.18	ug/L	92
89) 1,3,5-trimethylbenzene	14.642	105	6132	0.94	ug/L	97
91) 1,2,4-trimethylbenzene	15.044	105	6205	0.94	ug/L	93
93) 1,3-dichlorobenzene	15.266	146	4322	1.15	ug/L	99
95) 1,4-dichlorobenzene	15.326	146	5036	1.25	ug/L	89
96) 1,2-dichlorobenzene	15.708	146	3930	1.11	ug/L	98

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75152.D
Acq On    : 25 Sep 2015   3:49 pm
Operator  : kaylap
Sample    : ic2500-1
Misc      : ms35302,msh2500,,,,5,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Sep 28 09:01:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Mon Sep 28 08:57:50 2015
Response via : Initial Calibration

        Compound                  R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
```

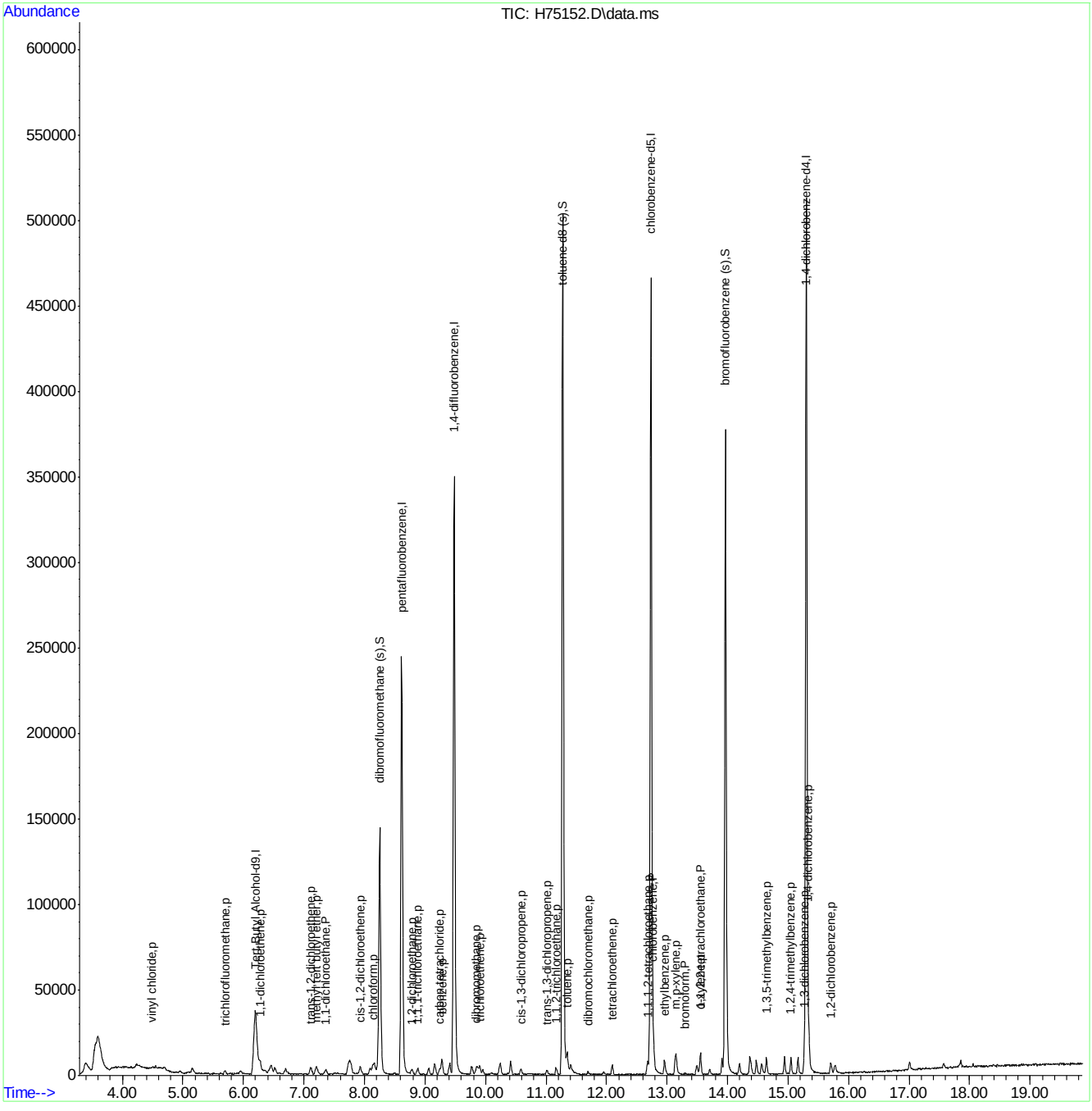
7.6.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75152.D
Acq On : 25 Sep 2015 3:49 pm
Operator : kaylap
Sample : ic2500-1
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 28 09:01:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 08:57:50 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.192	65	75395	500.00	ug/L	0.00
4) pentafluorobenzene	8.616	168	188130	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.484	114	294866	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	167139	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.300	152	151315	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.253	113	96172	49.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.64%			
60) toluene-d8 (s)	11.277	98	359171	50.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.32%			
82) bromofluorobenzene (s)	13.962	95	144449	50.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.14%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.284	59	3176	19.64	ug/L	95
3) Ethanol	5.148	45	3073	164.80	ug/L #	40
5) dichlorodifluoromethane	4.015	85	3041	1.47	ug/L	84
6) chloromethane	4.248	50	3596	1.92	ug/L	99
7) vinyl chloride	4.491	62	2844	1.68	ug/L	97
8) bromomethane	4.950	96	1765	1.40	ug/L	79
9) chloroethane	5.098	64	1707	1.45	ug/L	99
11) trichlorofluoromethane	5.698	101	4062	1.60	ug/L	90
14) 1,1-dichloroethene	6.277	96	2769	1.79	ug/L #	74
18) methylene chloride	6.446	84	3978	2.09	ug/L	83
19) methyl tert butyl ether	7.205	73	8882	1.81	ug/L	97
22) trans-1,2-dichloroethene	7.113	96	3341	1.86	ug/L	90
28) di-isopropyl ether	7.769	45	11559	1.78	ug/L	85
31) 1,1-dichloroethane	7.360	63	6854m	1.87	ug/L	
32) tert-butyl ethyl ether	8.161	59	10257	1.71	ug/L	93
36) cis-1,2-dichloroethene	7.928	96	3617	1.84	ug/L	91
39) chloroform	8.129	83	6608	1.83	ug/L	94
41) 1,1,1-trichloroethane	8.877	97	4760	1.71	ug/L	89
44) carbon tetrachloride	9.244	117	3388	1.56	ug/L	81
46) benzene	9.280	78	13568	1.85	ug/L	97
48) 1,2-dichloroethane	8.786	62	5194	1.87	ug/L	98
49) tert-amyl methyl ether	9.410	73	8124	1.61	ug/L	88
51) trichloroethene	9.901	95	3486	1.90	ug/L	74
52) 1,2-dichloropropane	9.869	63	3908	2.00	ug/L	86
53) dibromomethane	9.841	93	2173	1.83	ug/L	93
54) bromodichloromethane	9.954	83	4042	1.65	ug/L	92
59) cis-1,3-dichloropropene	10.582	75	4583	1.86	ug/L	89
62) toluene	11.348	92	8138	1.83	ug/L	96
63) trans-1,3-dichloropropene	11.009	75	3843	1.88	ug/L	95
64) 1,1,2-trichloroethane	11.168	83	2741	1.88	ug/L #	76
67) tetrachloroethene	12.092	166	3286m	1.79	ug/L	
69) dibromochloromethane	11.690	129	2489	1.87	ug/L	98
70) 1,2-dibromoethane	11.944	107	2941	1.79	ug/L	96
72) chlorobenzene	12.770	112	9424	1.78	ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration

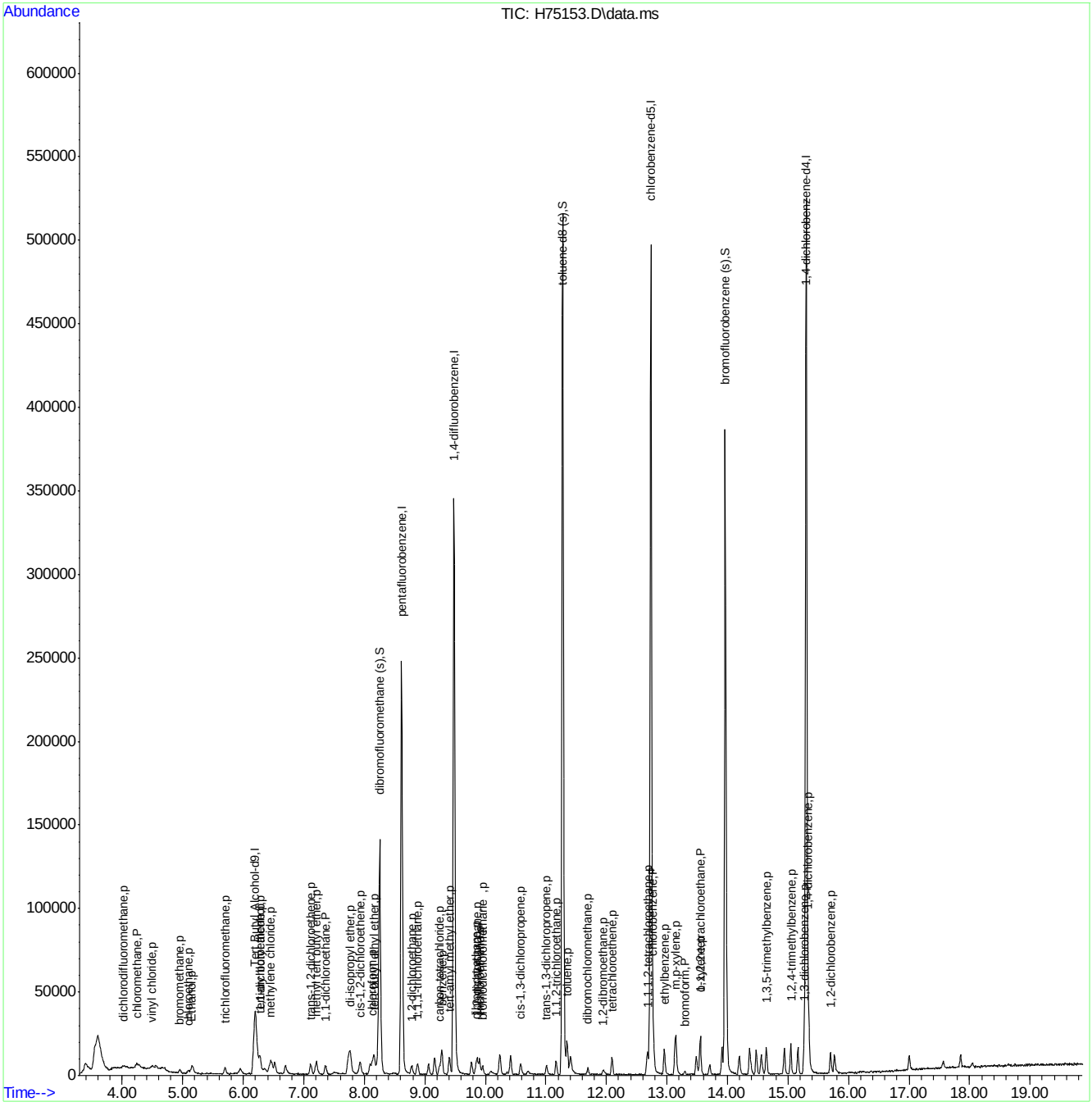
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
73) 1,1,1,2-tetrachloroethane	12.685	131	2513	1.61 ug/L	94
74) ethylbenzene	12.953	91	13832	1.70 ug/L	96
75) m,p-xylene	13.144	106	9944	3.42 ug/L	99
76) o-xylene	13.553	106	5297	1.75 ug/L	97
78) bromoform	13.299	173	1244	1.42 ug/L	100
84) 1,1,2,2-tetrachloroethane	13.553	83	3757	1.93 ug/L	88
89) 1,3,5-trimethylbenzene	14.640	105	10639	1.66 ug/L	98
91) 1,2,4-trimethylbenzene	15.049	105	10798	1.65 ug/L	99
93) 1,3-dichlorobenzene	15.265	146	7008	1.71 ug/L	94
95) 1,4-dichlorobenzene	15.328	146	8162	1.77 ug/L	94
96) 1,2-dichlorobenzene	15.702	146	6757	1.78 ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

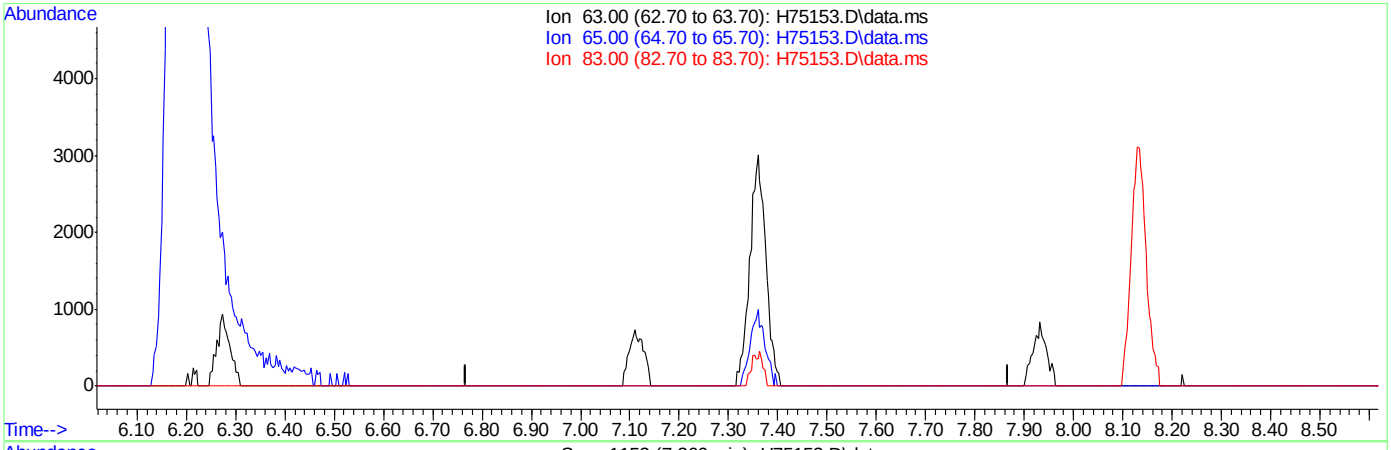
Quant Time: Sep 28 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration

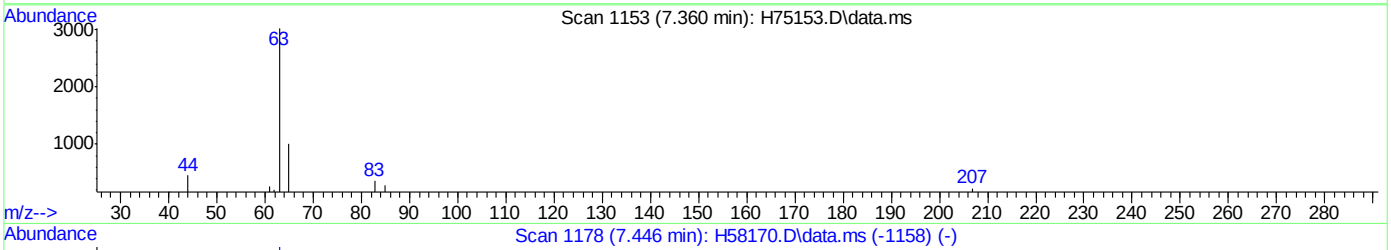


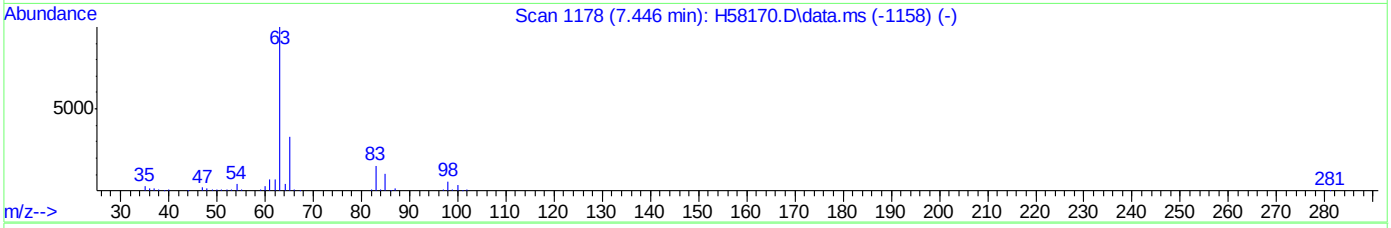
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(31) 1,1-dichloroethane (P)

7.358min 0.00ug/L d

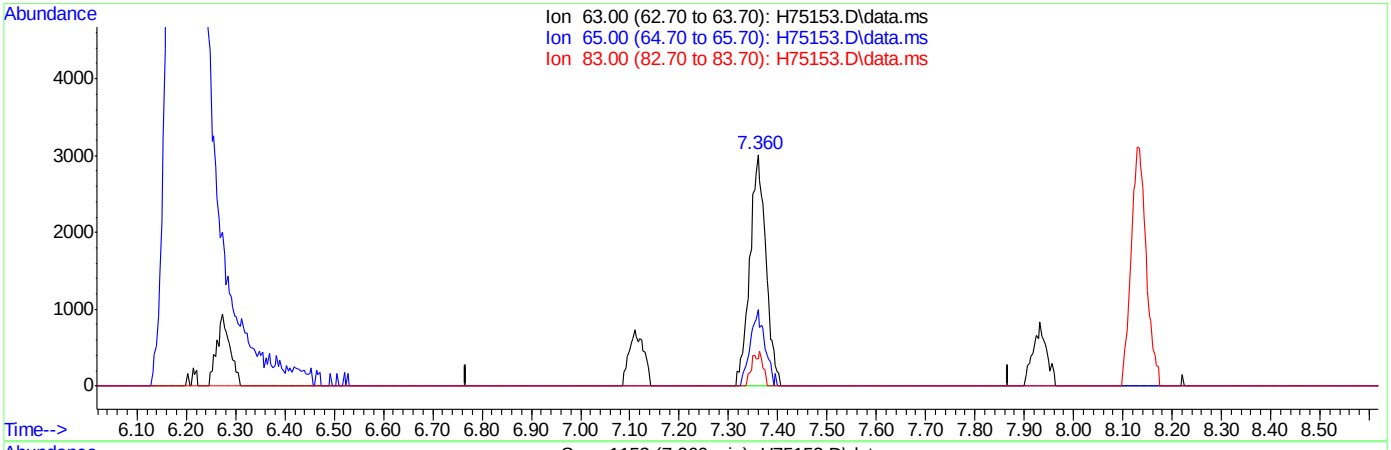
response 0

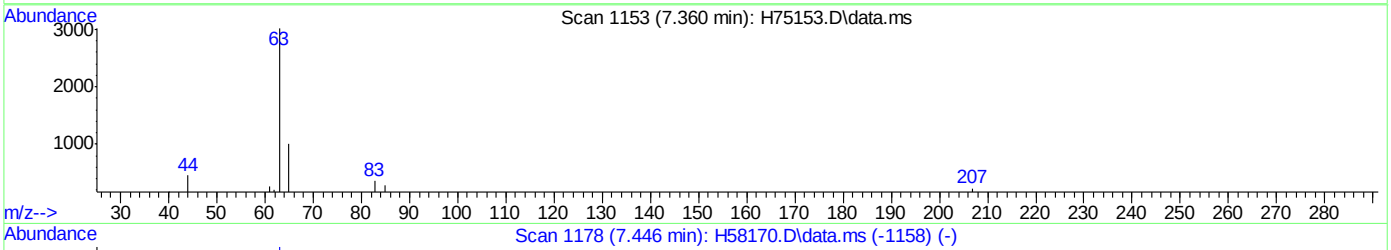
Ion	Exp%	Act%
63.00	100	0.00
65.00	32.10	0.00
83.00	17.30	0.00
0.00	0.00	0.00

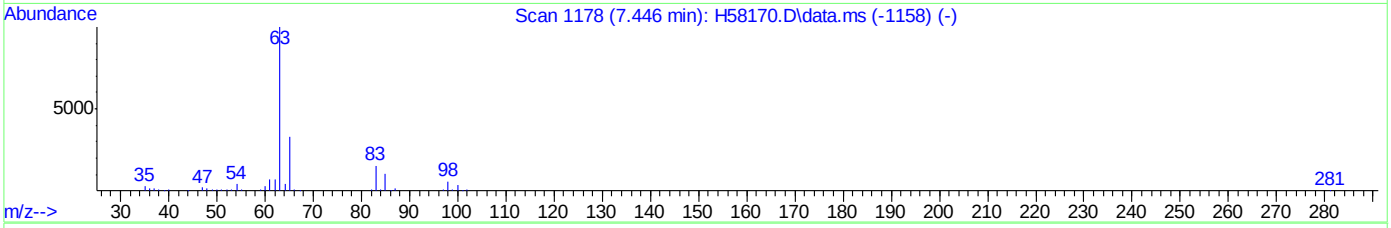
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(31) 1,1-dichloroethane (P)

7.360min (+0.002) 1.87ug/L m

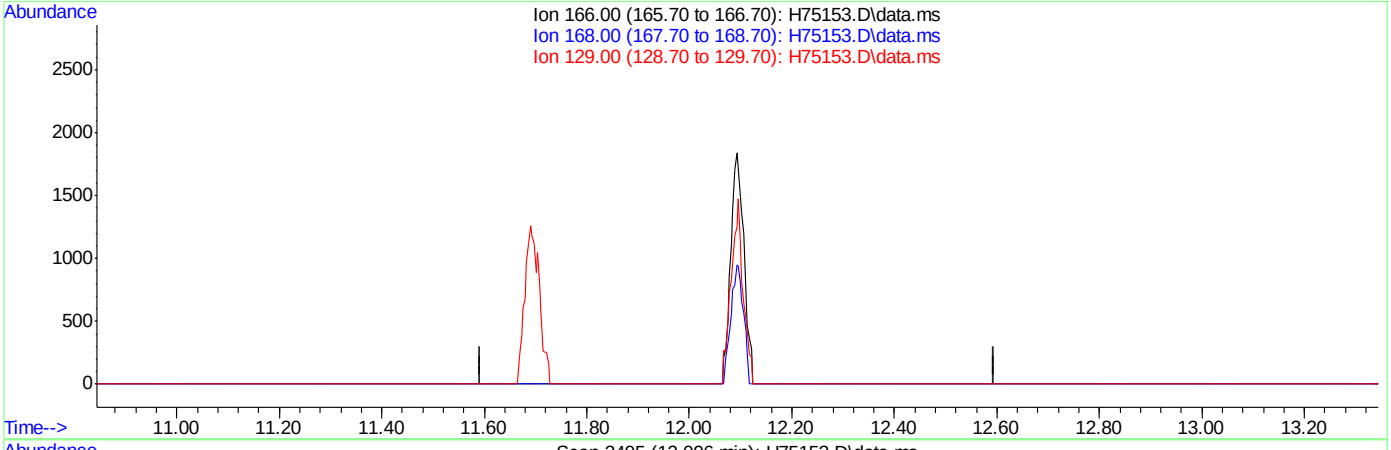
response 6854

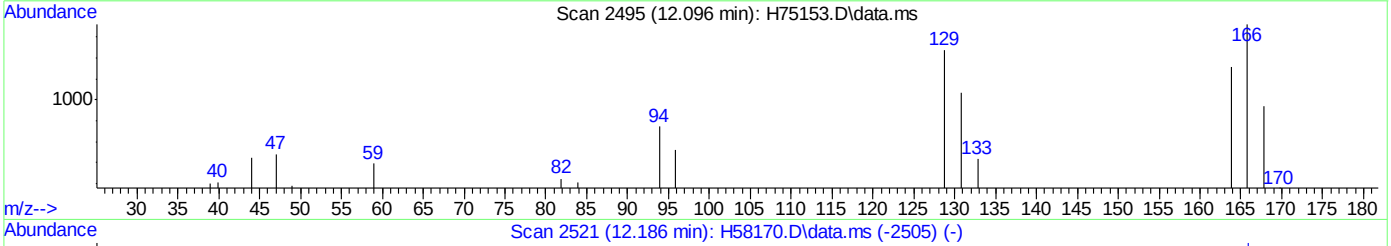
Ion	Exp%	Act%
63.00	100	100
65.00	32.10	33.07
83.00	17.30	11.91
0.00	0.00	0.00

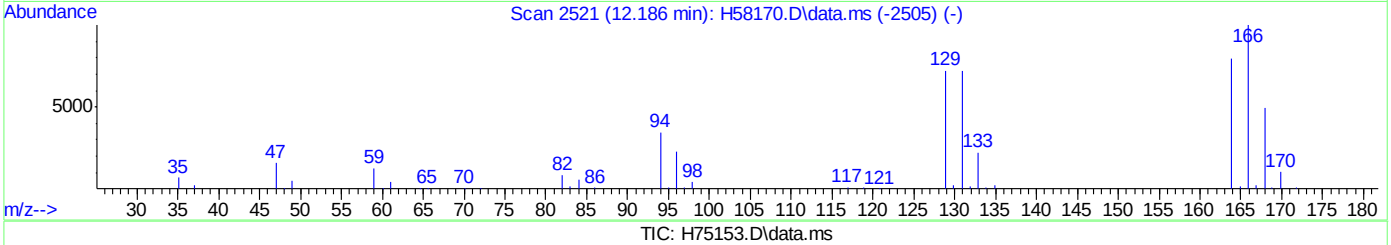
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(67) tetrachloroethene (p)

12.094min 0.00ug/L d

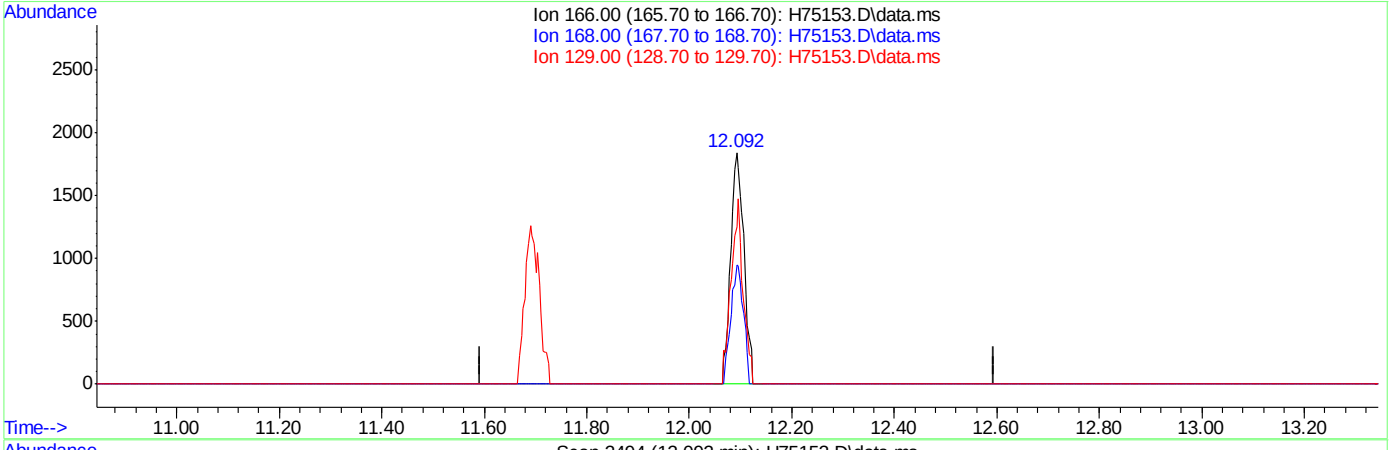
response 0

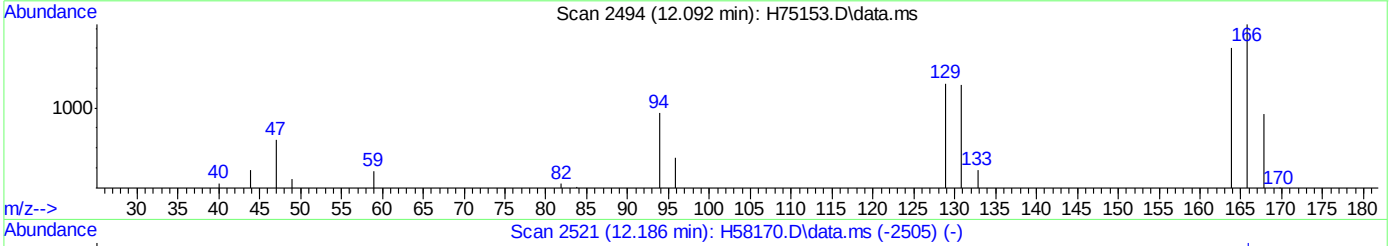
Ion	Exp%	Act%
166.00	100	0.00
168.00	47.70	0.00
129.00	78.90	0.00
0.00	0.00	0.00

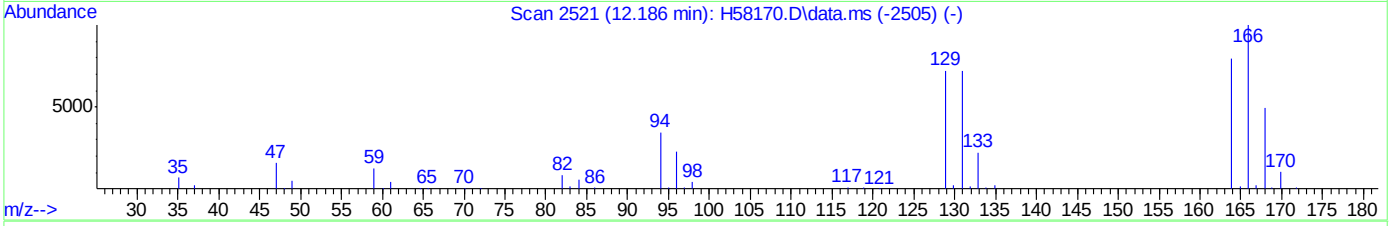
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75153.D
Acq On : 25 Sep 2015 4:16 pm
Operator : kaylap
Sample : ic2500-2
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 09:03:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:03:24 2015
Response via : Initial Calibration







TIC: H75153.D\data.ms

(67) tetrachloroethene (p)

12.092min (-0.002) 1.79ug/L m

response 3286

Ion	Exp%	Act%
166.00	100	100
168.00	47.70	51.30
129.00	78.90	67.86
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.198	65	76358	500.00	ug/L	0.00
4) pentafluorobenzene	8.616	168	187576	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	292434	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	170449	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	153419	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	96133	49.99	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.98%			
60) toluene-d8 (s)	11.276	98	363335	51.51	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.02%			
82) bromofluorobenzene (s)	13.965	95	146708	50.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.28%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.283	59	9427	58.09	ug/L	80
3) Ethanol	5.129	45	10200	592.22	ug/L #	40
5) dichlorodifluoromethane	4.032	85	12884	7.20	ug/L	95
6) chloromethane	4.247	50	13262	7.24	ug/L	97
7) vinyl chloride	4.501	62	12362	7.73	ug/L	95
8) bromomethane	4.946	96	7964	7.45	ug/L	95
9) chloroethane	5.097	64	7131	7.05	ug/L	100
11) trichlorofluoromethane	5.701	101	17866	7.57	ug/L	98
12) freon-113	6.470	101	9957	5.66	ug/L	94
13) acrolein	5.711	56	1804	20.73	ug/L	92
14) 1,1-dichloroethene	6.279	96	8862	5.95	ug/L	85
15) acetone	5.870	58	767	3.80	ug/L #	56
16) ethyl ether	5.941	59	8001	5.15	ug/L	94
17) methyl acetate	6.470	43	10337	6.15	ug/L	89
18) methylene chloride	6.438	84	11524	5.94	ug/L #	74
19) methyl tert butyl ether	7.204	73	26399	5.58	ug/L	91
20) acrylonitrile	6.357	53	2945	3.87	ug/L	77
21) allyl chloride	6.523	41	18046	5.81	ug/L	84
22) trans-1,2-dichloroethene	7.112	96	9493	5.42	ug/L	83
23) iodomethane	6.354	142	14891	5.47	ug/L	91
24) carbon disulfide	6.696	76	30999	5.59	ug/L	98
26) vinyl acetate	7.479	43	17817	5.17	ug/L	87
27) chloroprene	7.726	53	15375	5.11	ug/L	99
28) di-isopropyl ether	7.769	45	36087	5.89	ug/L	83
29) methacrylonitrile	7.896	41	7026	5.86	ug/L	96
31) 1,1-dichloroethane	7.356	63	20145	5.64	ug/L	94
32) tert-butyl ethyl ether	8.164	59	31471	5.67	ug/L	95
33) Hexane	7.751	41	19193	5.84	ug/L #	95
34) isobutyl alcohol	8.160	43	6339	38.98	ug/L #	67
35) 2,2-dichloropropane	8.213	77	14294	5.59	ug/L	94
36) cis-1,2-dichloroethene	7.931	96	10622	5.56	ug/L	88
37) ethyl acetate	8.160	43	6175	7.52	ug/L	93
38) bromochloromethane	8.093	128	5071	5.62	ug/L #	53
39) chloroform	8.132	83	18993	5.42	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	1,1,1-trichloroethane	8.880	97	14799	5.60	ug/L		91
43)	cyclohexane	9.162	56	17660	5.32	ug/L	#	79
44)	carbon tetrachloride	9.240	117	11799	5.92	ug/L		93
45)	1,1-dichloropropene	9.057	75	12657	5.24	ug/L		91
46)	benzene	9.279	78	40462	5.67	ug/L		100
47)	tetrahydrofuran	8.471	42	3158	5.25	ug/L		81
48)	1,2-dichloroethane	8.778	62	15474	5.74	ug/L		94
49)	tert-amyl methyl ether	9.406	73	25273	5.60	ug/L		88
50)	heptane	9.769	43	14196	5.68	ug/L		85
51)	trichloroethene	9.903	95	10656	5.92	ug/L		78
52)	1,2-dichloropropane	9.865	63	11025	5.69	ug/L		97
53)	dibromomethane	9.836	93	6680	5.85	ug/L		87
54)	bromodichloromethane	9.953	83	12377	5.58	ug/L		92
55)	methylcyclohexane	10.415	83	16047	5.33	ug/L		91
56)	2-chloroethyl vinyl ether	10.345	63	6793	5.11	ug/L		81
57)	methyl methacrylate	10.069	69	5626	4.48	ug/L		83
59)	cis-1,3-dichloropropene	10.578	75	14322	5.96	ug/L		85
61)	4-methyl-2-pentanone	10.683	43	11161	5.76	ug/L		77
62)	toluene	11.347	92	24398	5.69	ug/L		93
63)	trans-1,3-dichloropropene	11.005	75	12675	6.34	ug/L		99
64)	1,1,2-trichloroethane	11.167	83	8288	5.85	ug/L		92
65)	ethyl methacrylate	11.393	69	10755	4.52	ug/L	#	42
67)	tetrachloroethene	12.091	166	10877	5.96	ug/L		94
68)	1,3-dichloropropane	11.403	76	16187	5.79	ug/L		93
69)	dibromochloromethane	11.689	129	7922	5.92	ug/L		96
70)	1,2-dibromoethane	11.943	107	9336	5.88	ug/L		97
72)	chlorobenzene	12.769	112	28845	5.54	ug/L		93
73)	1,1,1,2-tetrachloroethane	12.691	131	8339	5.60	ug/L		98
74)	ethylbenzene	12.952	91	44370	5.63	ug/L		97
75)	m,p-xylene	13.139	106	33962	11.87	ug/L		97
76)	o-xylene	13.545	106	17158	5.73	ug/L		96
77)	styrene	13.482	104	25666	4.97	ug/L		98
78)	bromoform	13.295	173	4403	5.46	ug/L		99
79)	trans-1,4-dichloro-2-b...	13.708	53	1843	3.23	ug/L	#	9
81)	isopropylbenzene	13.912	105	41871	5.27	ug/L		97
83)	bromobenzene	14.195	156	11867	5.53	ug/L		87
84)	1,1,2,2-tetrachloroethane	13.552	83	11828	6.04	ug/L		90
85)	1,2,3-trichloropropane	13.697	75	10848	4.81	ug/L		89
86)	n-propylbenzene	14.360	91	49065	5.17	ug/L		94
87)	2-chlorotoluene	14.473	91	30728	5.48	ug/L		90
88)	4-chlorotoluene	14.554	91	32146	5.41	ug/L		84
89)	1,3,5-trimethylbenzene	14.639	105	35229	5.74	ug/L		98
90)	tert-butylbenzene	14.939	91	20699	5.23	ug/L		89
91)	1,2,4-trimethylbenzene	15.045	105	35333	5.66	ug/L		99
92)	sec-butylbenzene	15.165	105	44298	5.19	ug/L		98
93)	1,3-dichlorobenzene	15.264	146	21551	5.44	ug/L		98
94)	p-isopropyltoluene	15.341	119	38164	5.24	ug/L		95
95)	1,4-dichlorobenzene	15.331	146	23941	5.32	ug/L		98
96)	1,2-dichlorobenzene	15.701	146	20560	5.54	ug/L		97
97)	n-butylbenzene	15.761	91	33733	5.06	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 1,2-dibromo-3-chloropr...	16.178	75	1064	4.75	ug/L #	66
99) 1,3,5-trichlorobenzene	16.996	180	12655	5.43	ug/L	93
100) 1,2,4-trichlorobenzene	17.557	180	6847	5.45	ug/L	87
101) hexachlorobutadiene	17.850	225	5373	5.88	ug/L	88
102) naphthalene	17.833	128	10607	5.37	ug/L	100
103) 1,2,3-trichlorobenzene	17.557	180	6847	5.45	ug/L	85

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

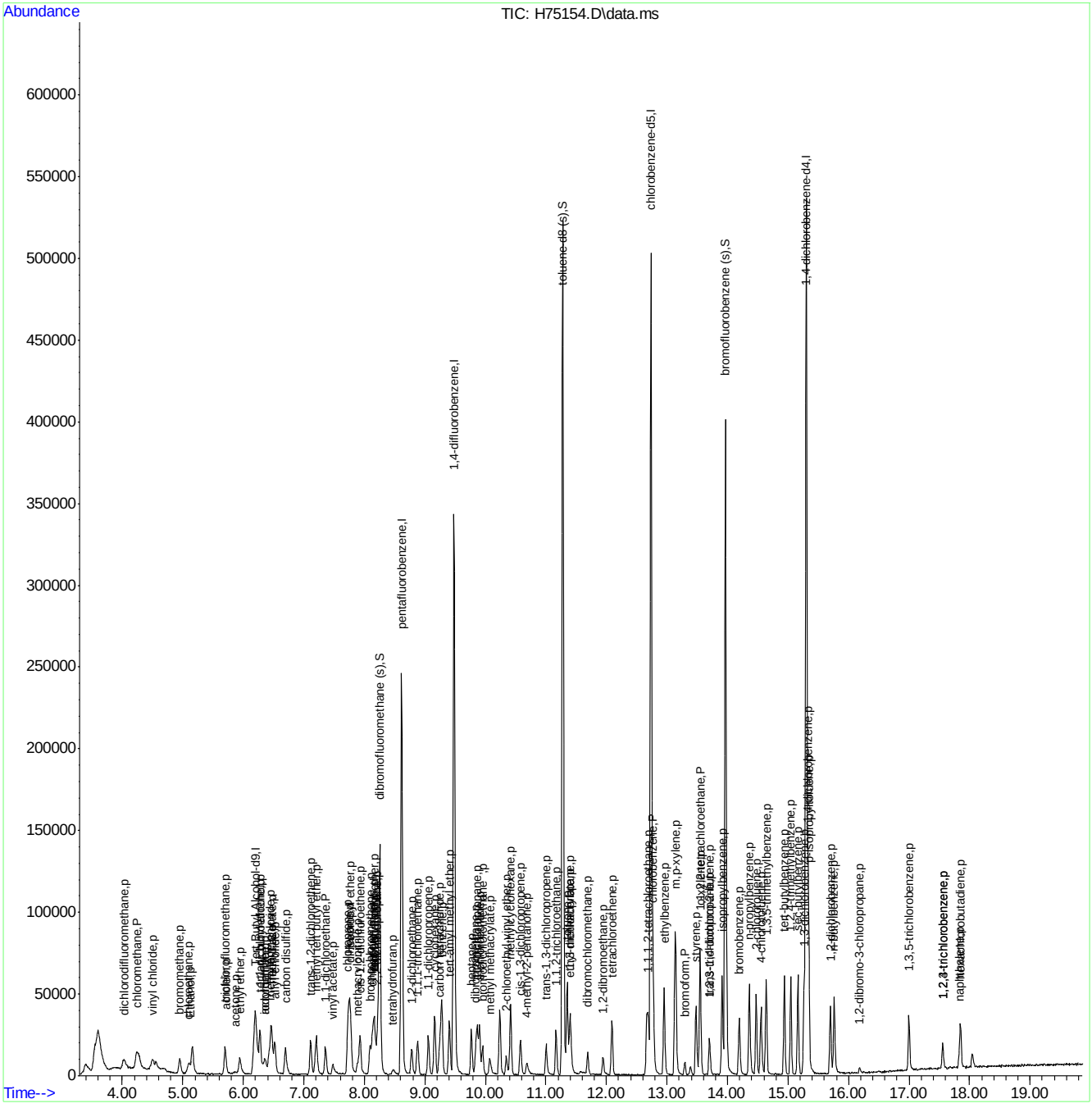
7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75154.D
Acq On : 25 Sep 2015 4:42 pm
Operator : kaylap
Sample : ic2500-5
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 09:12:32 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:10:14 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES MC41757

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	76084	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	185992	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.482	114	291068	50.00	ug/L	0.00
66) chlorobenzene-d5	12.732	82	168798	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	154847	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	95768	50.23	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.46%			
60) toluene-d8 (s)	11.275	98	358868	50.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.60%			
82) bromofluorobenzene (s)	13.964	95	148002	50.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.18%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.278	59	18956	111.23	ug/L	92
3) Ethanol	5.110	45	21713	1191.93	ug/L	98
5) dichlorodifluoromethane	4.016	85	23433	11.52	ug/L	100
6) chloromethane	4.253	50	23057	11.05	ug/L	96
7) vinyl chloride	4.496	62	22527	12.50	ug/L	96
8) bromomethane	4.951	96	14134	11.46	ug/L	99
9) chloroethane	5.100	64	13259	11.63	ug/L	95
11) trichlorofluoromethane	5.696	101	33240	12.59	ug/L	98
12) freon-113	6.465	101	19122	10.28	ug/L	89
13) acrolein	5.721	56	3695	46.82	ug/L	92
14) 1,1-dichloroethene	6.271	96	16863	10.90	ug/L #	73
15) acetone	5.855	58	2387	13.56	ug/L	88
16) ethyl ether	5.939	59	16416	10.50	ug/L	85
17) methyl acetate	6.462	43	21942	11.80	ug/L	84
18) methylene chloride	6.437	84	21881	10.70	ug/L #	76
19) methyl tert butyl ether	7.203	73	52270	10.83	ug/L	86
20) acrylonitrile	6.352	53	6635	9.91	ug/L	92
21) allyl chloride	6.518	41	35373	10.62	ug/L	89
22) trans-1,2-dichloroethene	7.115	96	18382	10.37	ug/L	83
23) iodomethane	6.356	142	29144	10.31	ug/L	88
24) carbon disulfide	6.695	76	60083	10.32	ug/L	96
25) propionitrile	7.422	54	1863	7.27	ug/L	100
26) vinyl acetate	7.471	43	35451	10.20	ug/L	95
27) chloroprene	7.725	53	30810	10.21	ug/L	99
28) di-isopropyl ether	7.767	45	71673	11.14	ug/L	82
29) methacrylonitrile	7.880	41	13427	10.40	ug/L	98
30) 2-butanone	7.806	72	1794	7.99	ug/L #	1
31) 1,1-dichloroethane	7.354	63	39151	10.71	ug/L	95
32) tert-butyl ethyl ether	8.163	59	63892	11.11	ug/L	91
33) Hexane	7.746	41	36082	10.22	ug/L #	91
34) isobutyl alcohol	8.156	43	11369	55.10	ug/L	77
35) 2,2-dichloropropane	8.212	77	27339	10.18	ug/L	94
36) cis-1,2-dichloroethene	7.930	96	20706	10.63	ug/L	86
37) ethyl acetate	8.156	43	11062	10.85	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.088	128	10294	10.83 ug/L #	49
39) chloroform	8.127	83	37244	10.50 ug/L	100
41) 1,1,1-trichloroethane	8.879	97	29300	10.86 ug/L	92
43) cyclohexane	9.161	56	34710	10.18 ug/L #	78
44) carbon tetrachloride	9.242	117	22912	11.04 ug/L	95
45) 1,1-dichloropropene	9.059	75	24504	9.95 ug/L	94
46) benzene	9.278	78	77508	10.63 ug/L	100
47) tetrahydrofuran	8.470	42	6589	10.74 ug/L	88
48) 1,2-dichloroethane	8.777	62	29775	10.70 ug/L	98
49) tert-amyl methyl ether	9.405	73	51097	10.94 ug/L	88
50) heptane	9.765	43	26323	9.91 ug/L	93
51) trichloroethene	9.899	95	20161	10.86 ug/L	85
52) 1,2-dichloropropane	9.863	63	21699	10.76 ug/L	95
53) dibromomethane	9.839	93	13141	11.09 ug/L	92
54) bromodichloromethane	9.952	83	25376	11.06 ug/L	98
55) methylcyclohexane	10.410	83	30755	9.93 ug/L	87
56) 2-chloroethyl vinyl ether	10.340	63	12428	9.29 ug/L	86
57) methyl methacrylate	10.061	69	12408	10.48 ug/L	92
58) 1,4-dioxane	10.072	88	567	38.23 ug/L	80
59) cis-1,3-dichloropropene	10.576	75	29376	11.82 ug/L	92
61) 4-methyl-2-pentanone	10.675	43	21392	10.31 ug/L	84
62) toluene	11.349	92	46857	10.61 ug/L	98
63) trans-1,3-dichloropropene	10.996	75	26702	12.74 ug/L	98
64) 1,1,2-trichloroethane	11.166	83	15936	10.84 ug/L	89
65) ethyl methacrylate	11.384	69	22867	10.14 ug/L	85
67) tetrachloroethene	12.090	166	20915	11.15 ug/L	92
68) 1,3-dichloropropane	11.399	76	32045	10.73 ug/L	96
69) dibromochloromethane	11.688	129	16897	12.30 ug/L	97
70) 1,2-dibromoethane	11.942	107	18703	11.24 ug/L	97
71) 2-hexanone	11.554	43	14603	10.42 ug/L	79
72) chlorobenzene	12.768	112	54878	10.36 ug/L	92
73) 1,1,1,2-tetrachloroethane	12.687	131	16939	11.15 ug/L	91
74) ethylbenzene	12.951	91	86912	10.79 ug/L	97
75) m,p-xylene	13.138	106	67421	22.94 ug/L	99
76) o-xylene	13.544	106	35369	11.58 ug/L	99
77) styrene	13.477	104	54157	10.63 ug/L	94
78) bromoform	13.290	173	9612	11.76 ug/L	96
79) trans-1,4-dichloro-2-b...	13.703	53	4408	9.47 ug/L #	29
81) isopropylbenzene	13.907	105	84481	10.26 ug/L	98
83) bromobenzene	14.190	156	23574	10.33 ug/L	85
84) 1,1,2,2-tetrachloroethane	13.548	83	23076	11.20 ug/L	96
85) 1,2,3-trichloropropane	13.699	75	22947	10.27 ug/L	94
86) n-propylbenzene	14.359	91	97461	10.01 ug/L	95
87) 2-chlorotoluene	14.472	91	62013	10.46 ug/L	90
88) 4-chlorotoluene	14.550	91	63969	10.25 ug/L	91
89) 1,3,5-trimethylbenzene	14.638	105	70667	11.00 ug/L	100
90) tert-butylbenzene	14.938	91	42151	10.32 ug/L	92
91) 1,2,4-trimethylbenzene	15.044	105	72851	11.20 ug/L	97
92) sec-butylbenzene	15.164	105	90614	10.33 ug/L	98
93) 1,3-dichlorobenzene	15.263	146	42489	10.40 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.340	119	76539	10.17	ug/L	97
95) 1,4-dichlorobenzene	15.326	146	47261	10.24	ug/L	95
96) 1,2-dichlorobenzene	15.700	146	41794	10.87	ug/L	99
97) n-butylbenzene	15.760	91	69185	10.22	ug/L	93
98) 1,2-dibromo-3-chloropr...	16.180	75	2468	11.20	ug/L #	64
99) 1,3,5-trichlorobenzene	16.995	180	26843	10.94	ug/L	94
100) 1,2,4-trichlorobenzene	17.549	180	14555	10.98	ug/L	96
101) hexachlorobutadiene	17.853	225	10651	10.61	ug/L	94
102) naphthalene	17.828	128	22575	10.92	ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	14555	10.98	ug/L	97

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

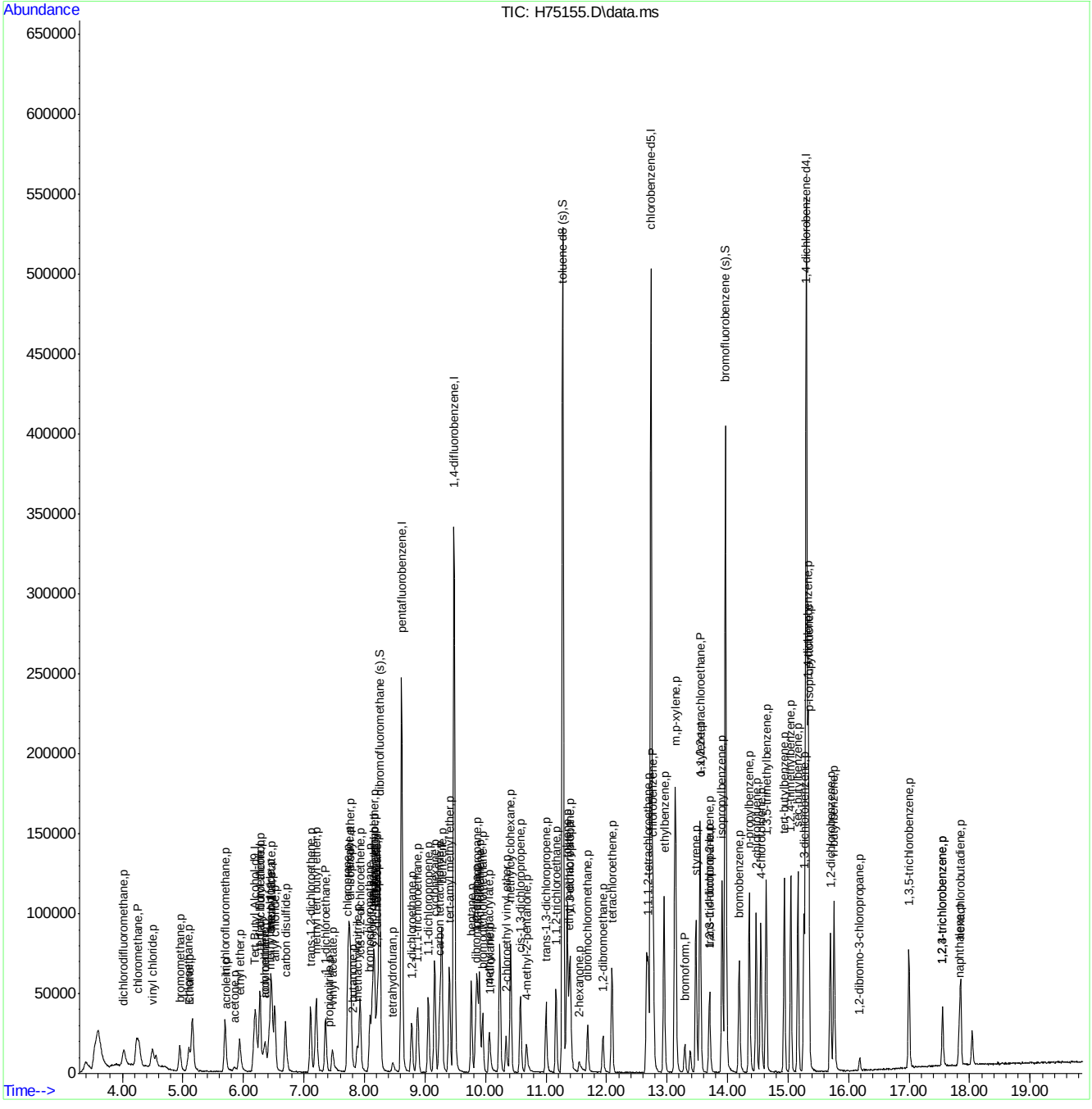
7.6.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

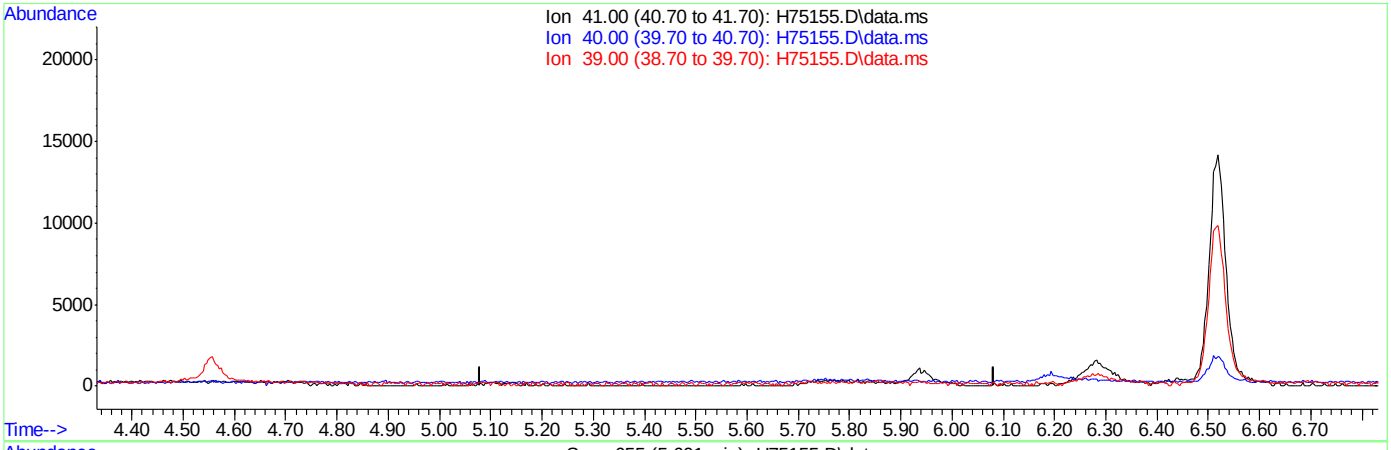
Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration

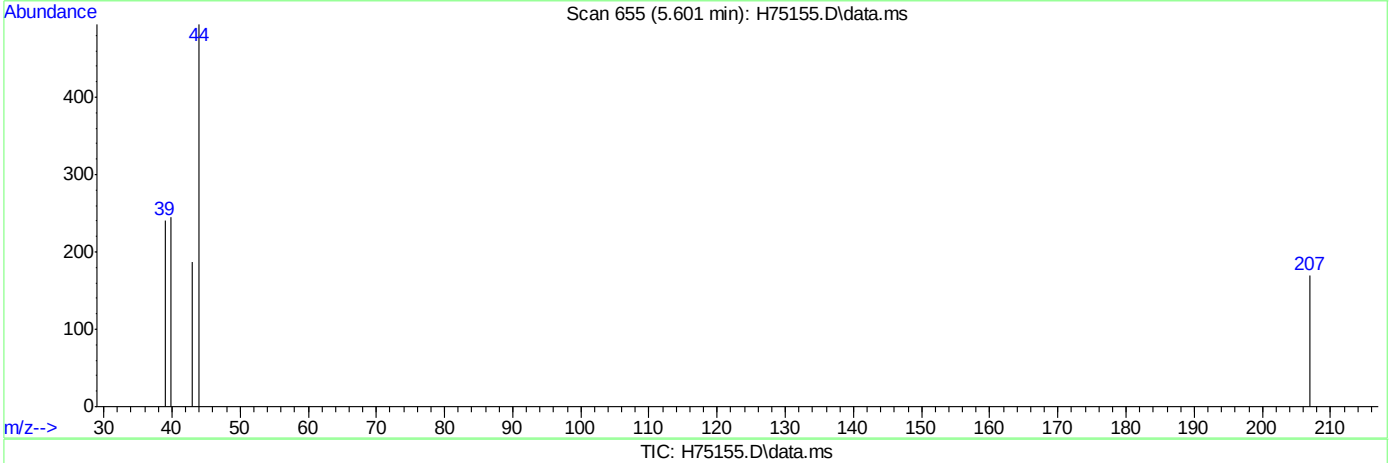


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75155.D
Acq On : 25 Sep 2015 5:09 pm
Operator : kaylap
Sample : ic2500-10
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 28 09:14:24 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:14:12 2015
Response via : Initial Calibration





TIC: H75155.D\data.ms

(10) acetonitrile (p)

5.602min (-5.602) 0.00ug/L

response 0

Ion	Exp%	Act%
41.00	100	0.00
40.00	22.50	0.00
39.00	56.70	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.190	65	76631	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	193809	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	301853	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	180193	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.301	152	162887	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	98241	49.41	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.82%			
60) toluene-d8 (s)	11.275	98	375982	51.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.38%			
82) bromofluorobenzene (s)	13.964	95	155314	49.95	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.90%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.278	59	35308	200.08	ug/L	99
3) Ethanol	5.121	45	50443	2623.42	ug/L	98
5) dichlorodifluoromethane	4.023	85	44042	20.01	ug/L	100
6) chloromethane	4.263	50	42367	18.98	ug/L	95
7) vinyl chloride	4.496	62	41216	20.91	ug/L	97
8) bromomethane	4.948	96	27109	20.36	ug/L	93
9) chloroethane	5.103	64	24554	19.86	ug/L	99
10) acetonitrile	5.597	41	587	21.20	ug/L	82
11) trichlorofluoromethane	5.696	101	60157	20.79	ug/L	97
12) freon-113	6.465	101	38936	19.91	ug/L	88
13) acrolein	5.703	56	7814	97.08	ug/L	92
14) 1,1-dichloroethene	6.271	96	34657	21.11	ug/L #	79
15) acetone	5.837	58	3738m	18.22	ug/L	
16) ethyl ether	5.936	59	32749	19.78	ug/L	91
17) methyl acetate	6.458	43	35148m	17.12	ug/L	
18) methylene chloride	6.440	84	42729	19.71	ug/L #	67
19) methyl tert butyl ether	7.199	73	103473	20.24	ug/L	88
20) acrylonitrile	6.338	53	14825	21.32	ug/L	93
21) allyl chloride	6.515	41	71501	20.19	ug/L	88
22) trans-1,2-dichloroethene	7.107	96	38023	20.43	ug/L	83
23) iodomethane	6.359	142	59416	19.96	ug/L	90
24) carbon disulfide	6.691	76	124387	20.28	ug/L	98
25) propionitrile	7.390	54	4496	19.51	ug/L	100
26) vinyl acetate	7.464	43	68331	18.74	ug/L	93
27) chloroprene	7.721	53	64235	20.29	ug/L	99
28) di-isopropyl ether	7.764	45	142794	20.71	ug/L	84
29) methacrylonitrile	7.880	41	24542	18.01	ug/L	96
30) 2-butanone	7.778	72	4278	20.32	ug/L #	87
31) 1,1-dichloroethane	7.354	63	77723	20.12	ug/L	96
32) tert-butyl ethyl ether	8.159	59	127173	20.65	ug/L	91
33) Hexane	7.743	41	73266	19.76	ug/L	88
34) isobutyl alcohol	8.159	43	18164	81.71	ug/L #	69
35) 2,2-dichloropropane	8.212	77	56709	20.15	ug/L	95
36) cis-1,2-dichloroethene	7.926	96	41694	20.29	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	ethyl acetate	8.159	43	20183	18.47	ug/L		99
38)	bromochloromethane	8.092	128	19976	19.63	ug/L	#	52
39)	chloroform	8.131	83	73199	19.61	ug/L		99
41)	1,1,1-trichloroethane	8.879	97	60294	21.08	ug/L		92
43)	cyclohexane	9.161	56	71663	20.15	ug/L	#	76
44)	carbon tetrachloride	9.242	117	48620	22.13	ug/L		95
45)	1,1-dichloropropene	9.055	75	52102	20.44	ug/L		91
46)	benzene	9.274	78	157681	20.64	ug/L		99
47)	tetrahydrofuran	8.466	42	12509	19.18	ug/L		89
48)	1,2-dichloroethane	8.777	62	58140	19.87	ug/L		98
49)	tert-amyl methyl ether	9.405	73	102643	20.71	ug/L		90
50)	heptane	9.761	43	55374	20.16	ug/L		90
51)	trichloroethene	9.899	95	42563	21.79	ug/L		78
52)	1,2-dichloropropane	9.863	63	42922	20.14	ug/L		97
53)	dibromomethane	9.835	93	26095	20.78	ug/L		93
54)	bromodichloromethane	9.948	83	51904	21.25	ug/L		94
55)	methylcyclohexane	10.414	83	65284	20.38	ug/L		87
56)	2-chloroethyl vinyl ether	10.336	63	25220	18.62	ug/L		88
57)	methyl methacrylate	10.057	69	25643	20.55	ug/L		90
58)	1,4-dioxane	10.061	88	1516	111.72	ug/L		75
59)	cis-1,3-dichloropropene	10.573	75	60390	22.75	ug/L		91
61)	4-methyl-2-pentanone	10.671	43	43230	19.88	ug/L		87
62)	toluene	11.349	92	96408	20.79	ug/L		96
63)	trans-1,3-dichloropropene	10.996	75	56353	24.80	ug/L		97
64)	1,1,2-trichloroethane	11.166	83	32222	20.78	ug/L		91
65)	ethyl methacrylate	11.381	69	48338	20.57	ug/L		94
67)	tetrachloroethene	12.090	166	43627	21.38	ug/L		93
68)	1,3-dichloropropane	11.402	76	63497	19.44	ug/L		98
69)	dibromochloromethane	11.688	129	35614	23.39	ug/L		96
70)	1,2-dibromoethane	11.938	107	36929	20.16	ug/L		100
71)	2-hexanone	11.540	43	29534	19.34	ug/L		88
72)	chlorobenzene	12.768	112	112142	19.69	ug/L		91
73)	1,1,1,2-tetrachloroethane	12.686	131	34853	21.01	ug/L		95
74)	ethylbenzene	12.948	91	185507	21.25	ug/L		97
75)	m,p-xylene	13.135	106	141878	44.14	ug/L		98
76)	o-xylene	13.544	106	72057	21.54	ug/L		97
77)	styrene	13.473	104	114551	20.62	ug/L		96
78)	bromoform	13.290	173	20177	22.34	ug/L		95
79)	trans-1,4-dichloro-2-b...	13.703	53	10293	21.09	ug/L	#	69
81)	isopropylbenzene	13.907	105	179155	20.51	ug/L		100
83)	bromobenzene	14.193	156	48303	19.91	ug/L		85
84)	1,1,2,2-tetrachloroethane	13.547	83	45435	20.56	ug/L		92
85)	1,2,3-trichloropropane	13.699	75	46470	19.60	ug/L		96
86)	n-propylbenzene	14.356	91	210424	20.54	ug/L		94
87)	2-chlorotoluene	14.468	91	127829	20.18	ug/L		92
88)	4-chlorotoluene	14.546	91	131778	19.91	ug/L		89
89)	1,3,5-trimethylbenzene	14.638	105	151803	22.01	ug/L		100
90)	tert-butylbenzene	14.938	91	89539	20.62	ug/L		89
91)	1,2,4-trimethylbenzene	15.044	105	152758	21.80	ug/L		100
92)	sec-butylbenzene	15.164	105	193846	20.77	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.262	146	87402	20.18	ug/L	99
94) p-isopropyltoluene	15.337	119	161323	20.26	ug/L	98
95) 1,4-dichlorobenzene	15.329	146	96155	19.72	ug/L	97
96) 1,2-dichlorobenzene	15.696	146	84276	20.48	ug/L	100
97) n-butylbenzene	15.756	91	148650	20.72	ug/L	91
98) 1,2-dibromo-3-chloropr...	16.176	75	4897	20.31	ug/L	77
99) 1,3,5-trichlorobenzene	16.995	180	54380	20.43	ug/L #	94
100) 1,2,4-trichlorobenzene	17.549	180	29448	20.45	ug/L	96
101) hexachlorobutadiene	17.849	225	22664	21.04	ug/L	94
102) naphthalene	17.824	128	45375	20.24	ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	29448	20.45	ug/L	94
104) 2-Methylnaphthalene	19.296	142	465m	7.82	ug/L	
105) 1-Methylnaphthalene	19.561	142	110m	2.79	ug/L	

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

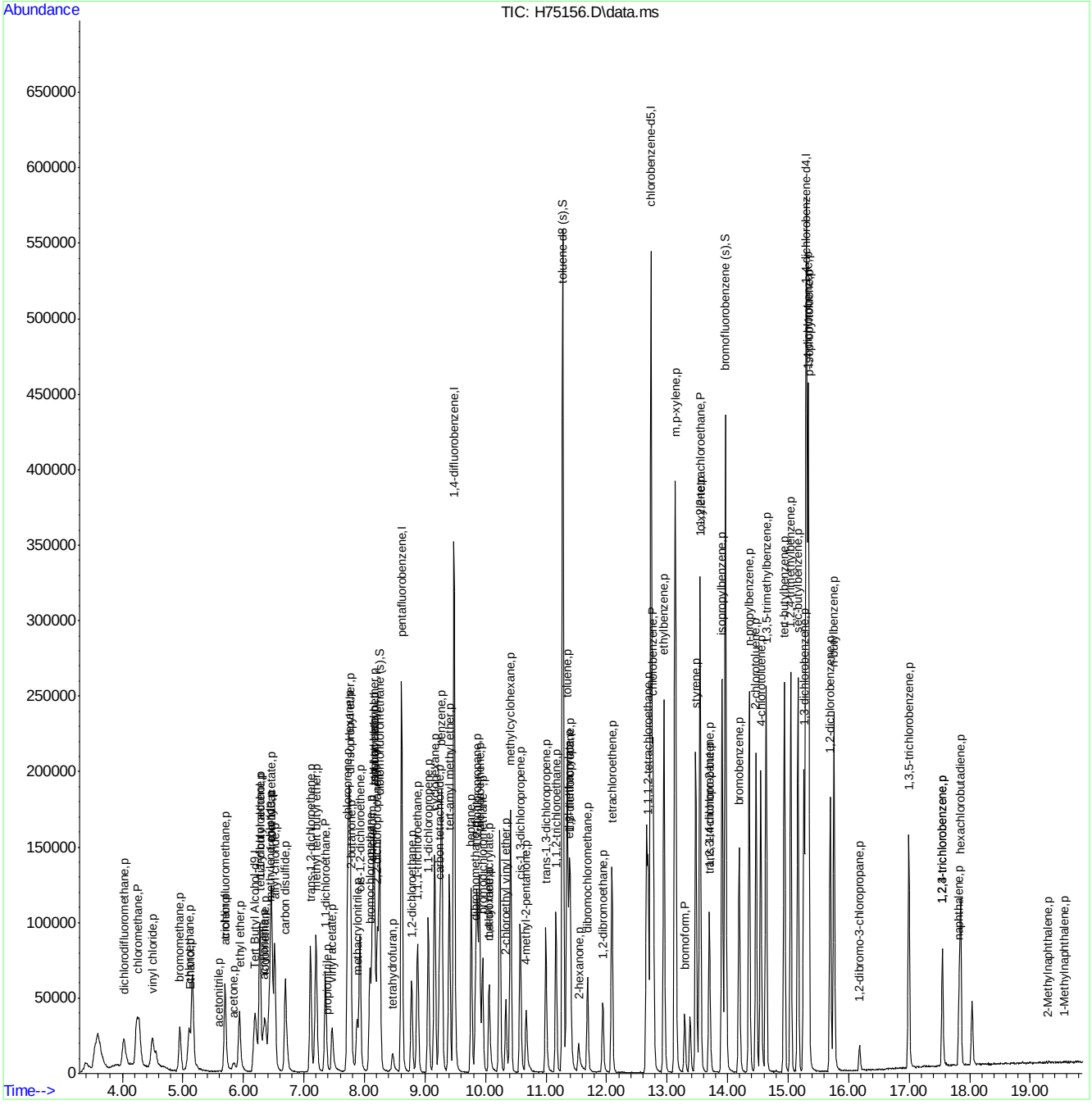
7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

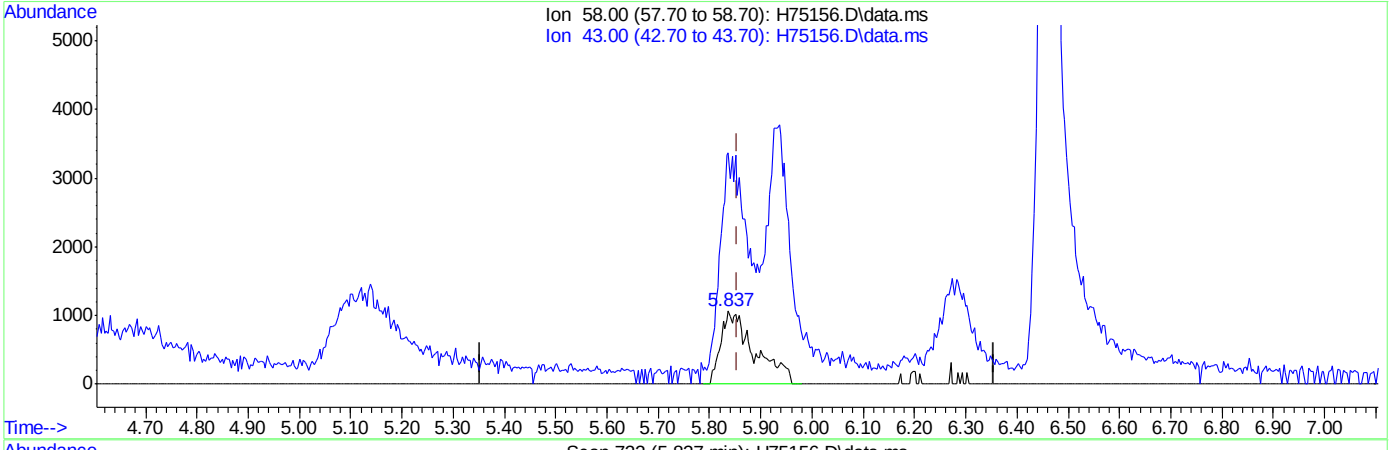
Quant Time: Sep 28 09:29:06 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration

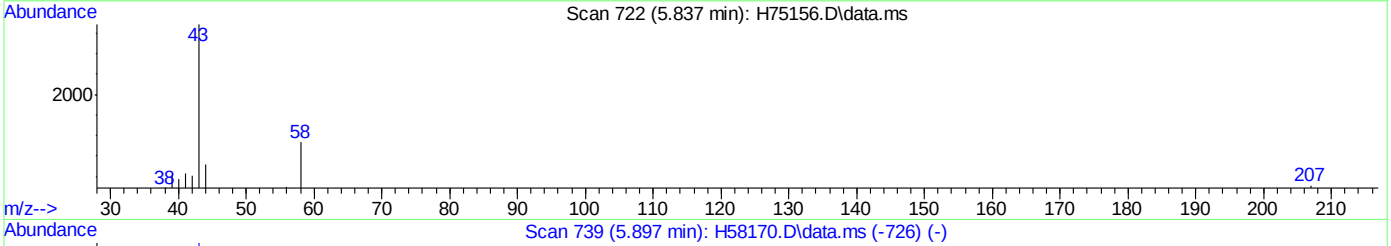


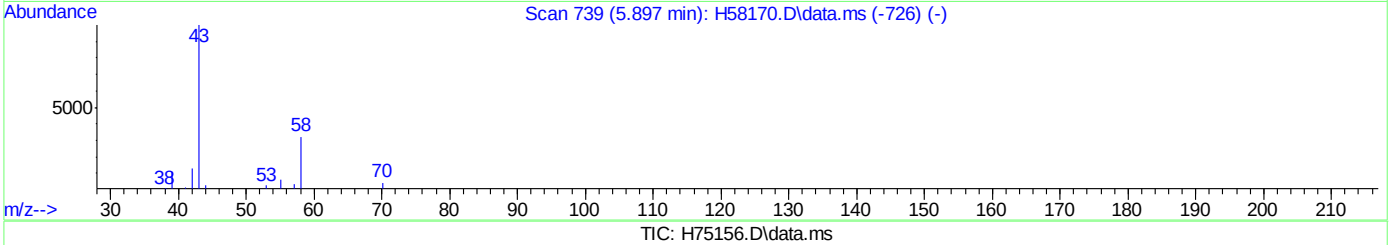
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(15) acetone (p)

5.837min (-0.018) 23.69ug/L

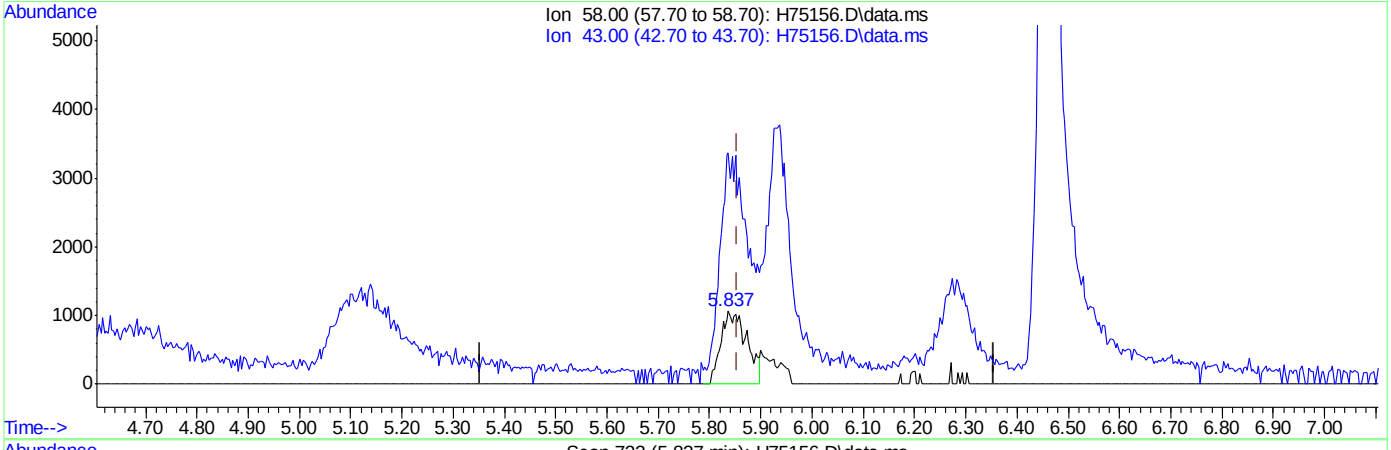
response 4861

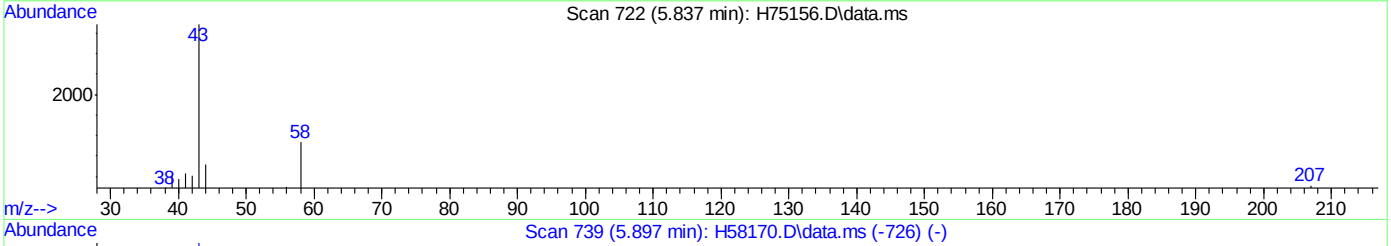
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	297.37
0.00	0.00	0.00
0.00	0.00	0.00

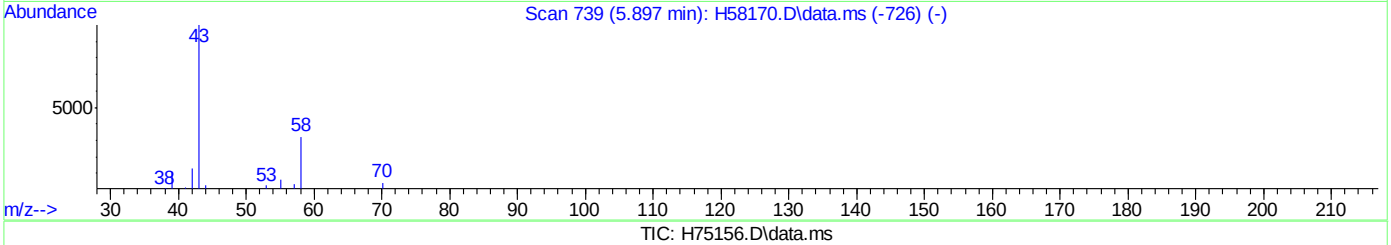
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(15) acetone (p)

5.837min (-0.018) 18.22ug/L m

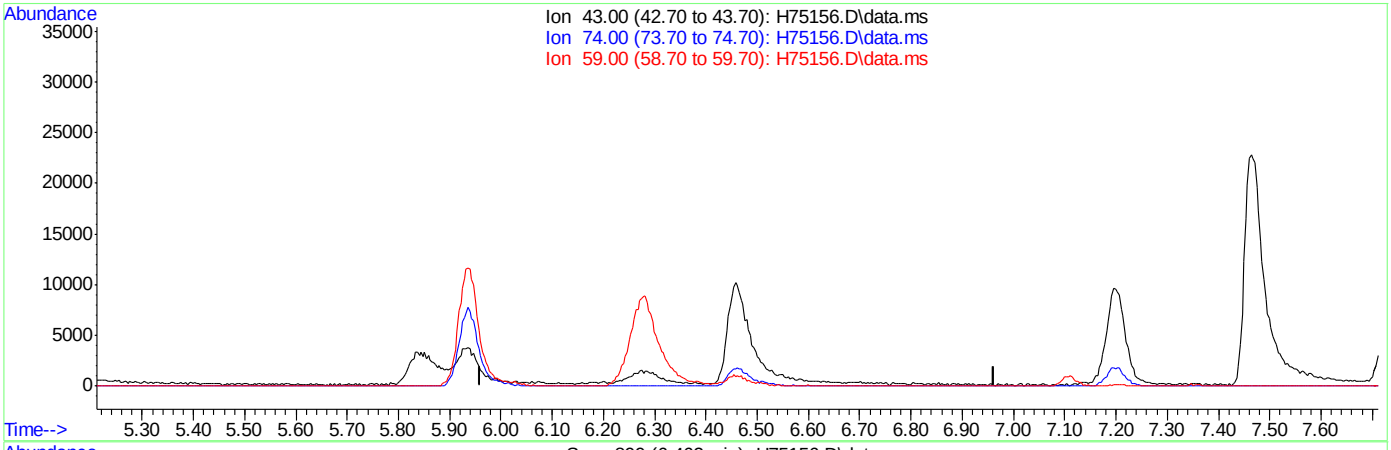
response 3738

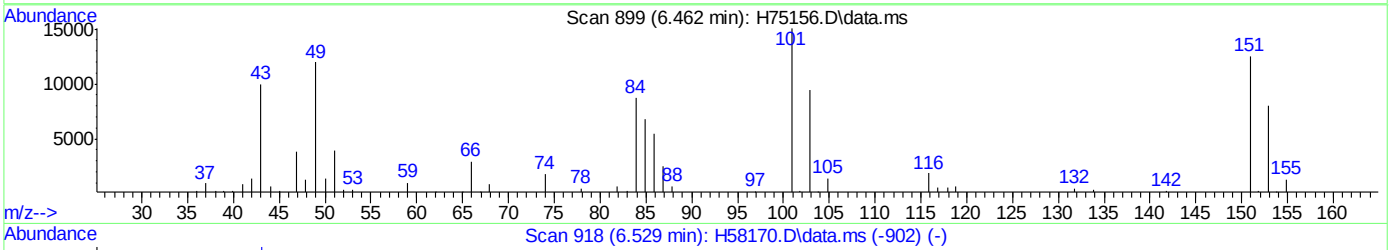
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	317.11
0.00	0.00	0.00
0.00	0.00	0.00

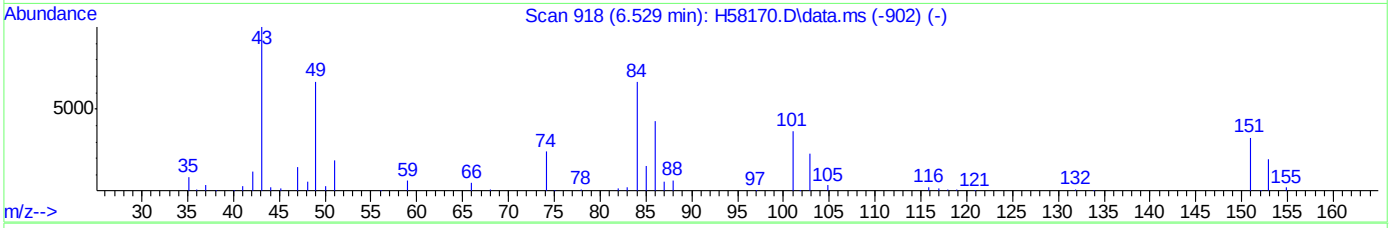
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(17) methyl acetate (p)

6.462min (-6.462) 0.00ug/L

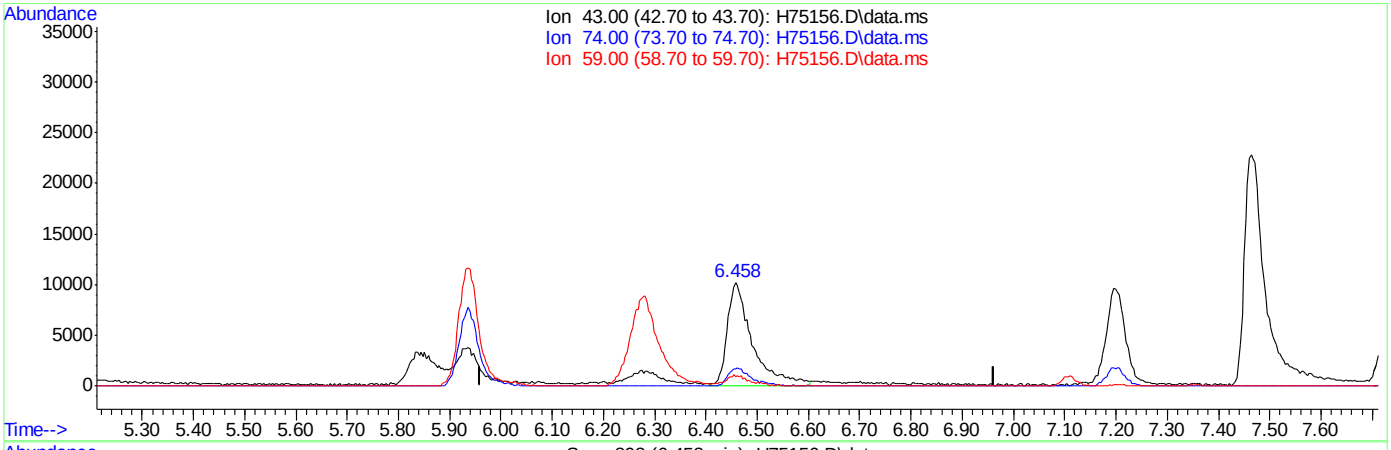
response 0

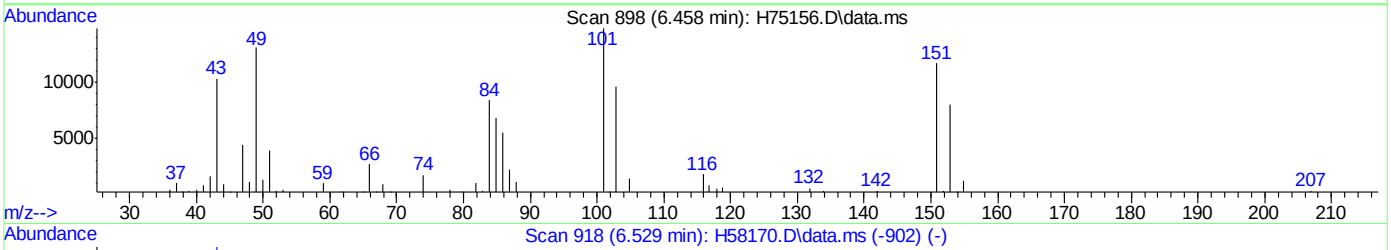
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

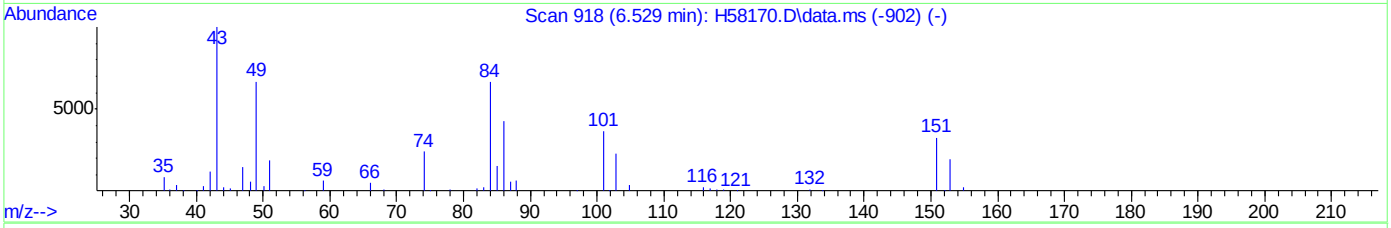
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:16:31 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration







TIC: H75156.D\data.ms

(17) methyl acetate (p)

6.458min (-0.004) 17.12ug/L m

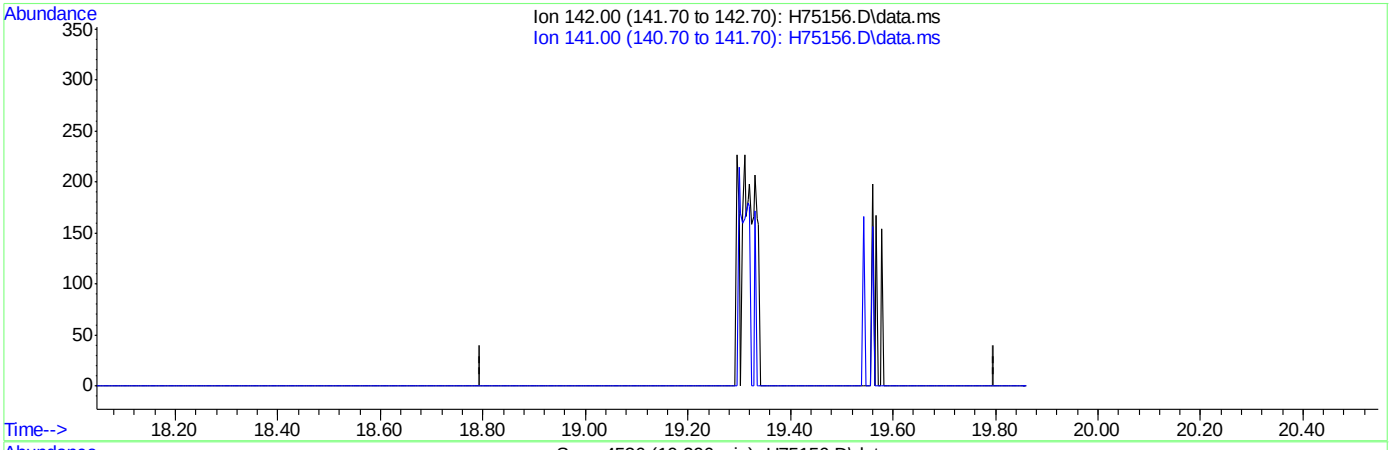
response 35148

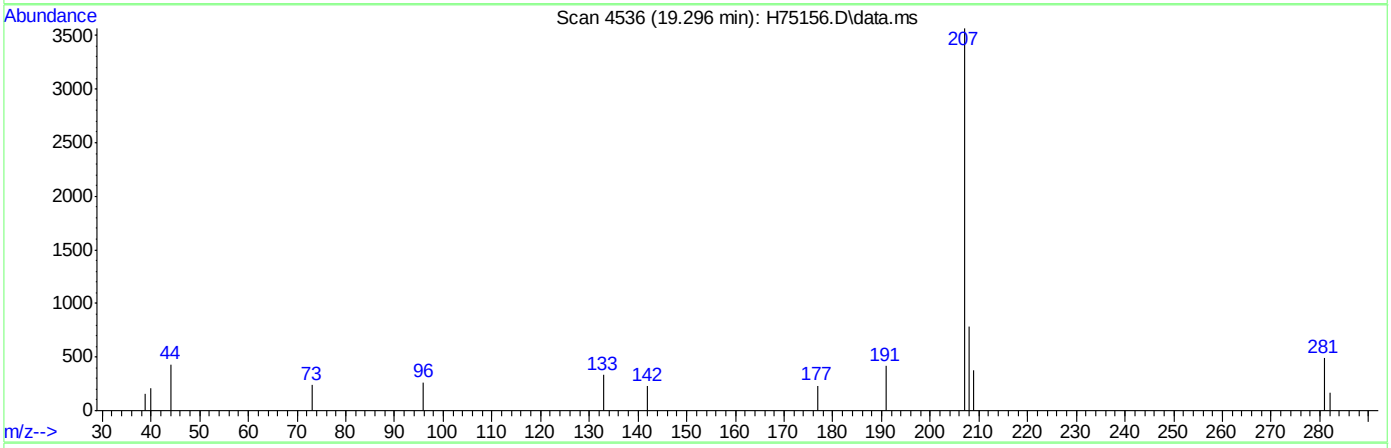
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	16.32
59.00	13.30	9.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(104) 2-Methylnaphthalene (p)

19.297min (-19.297) 0.00ug/L

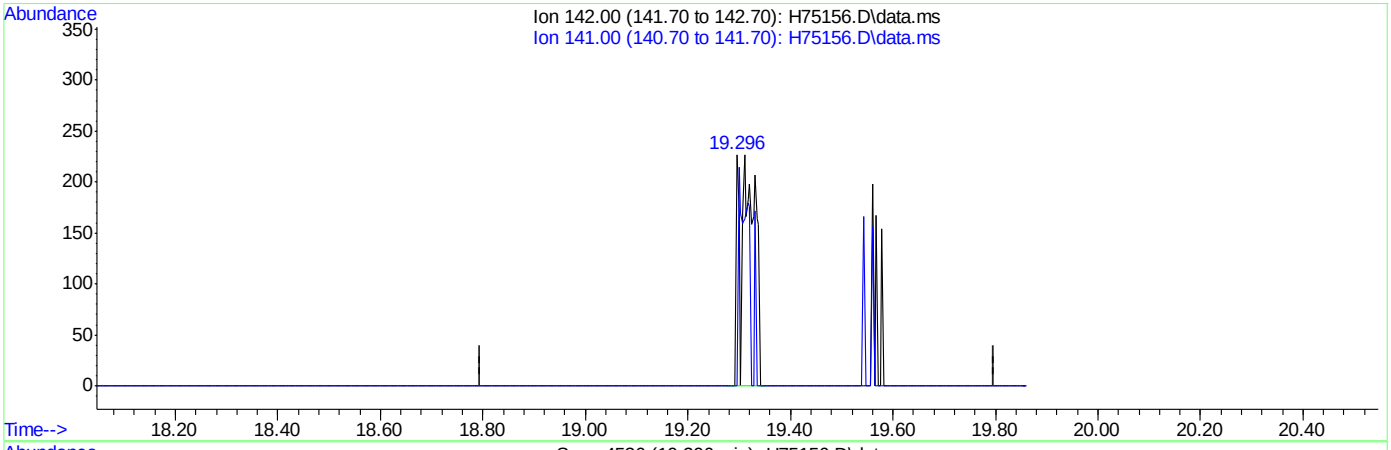
response 0

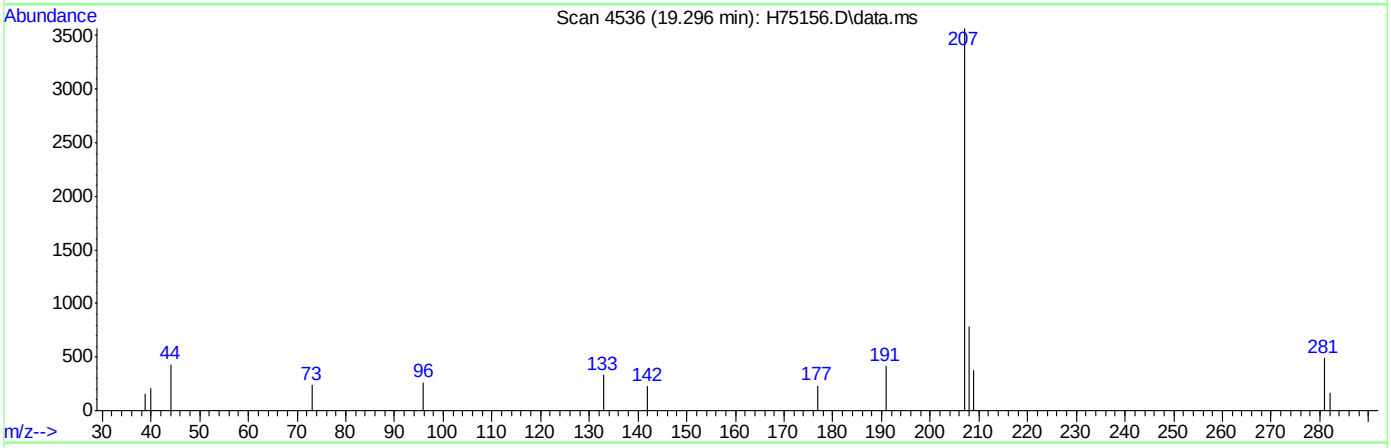
Ion	Exp%	Act%
142.00	100	0.00
141.00	91.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





(104) 2-Methylnaphthalene (p)

19.296min (-0.001) 7.82ug/L m

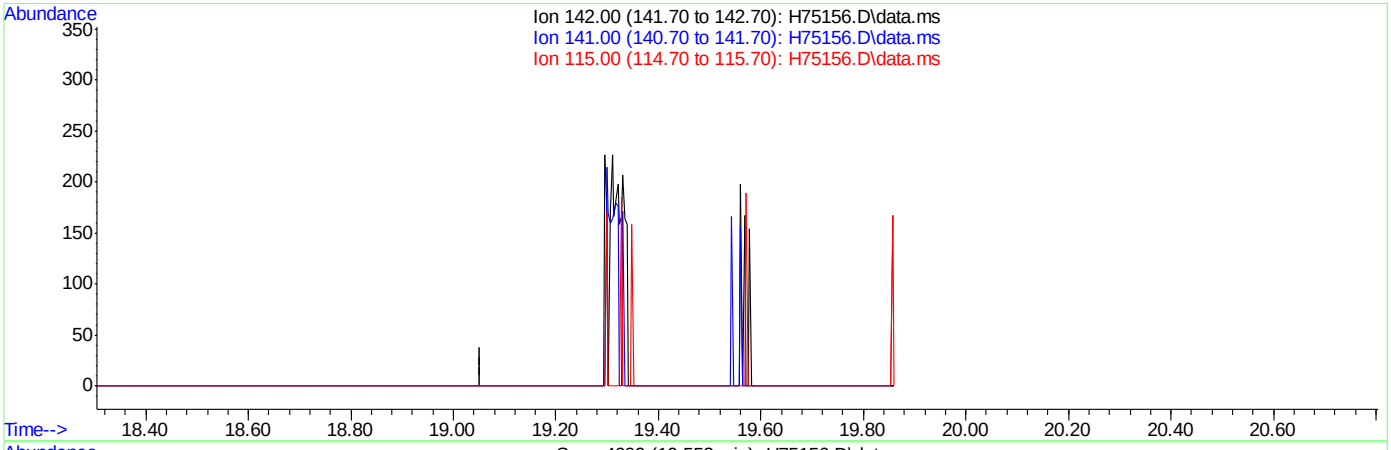
response 465

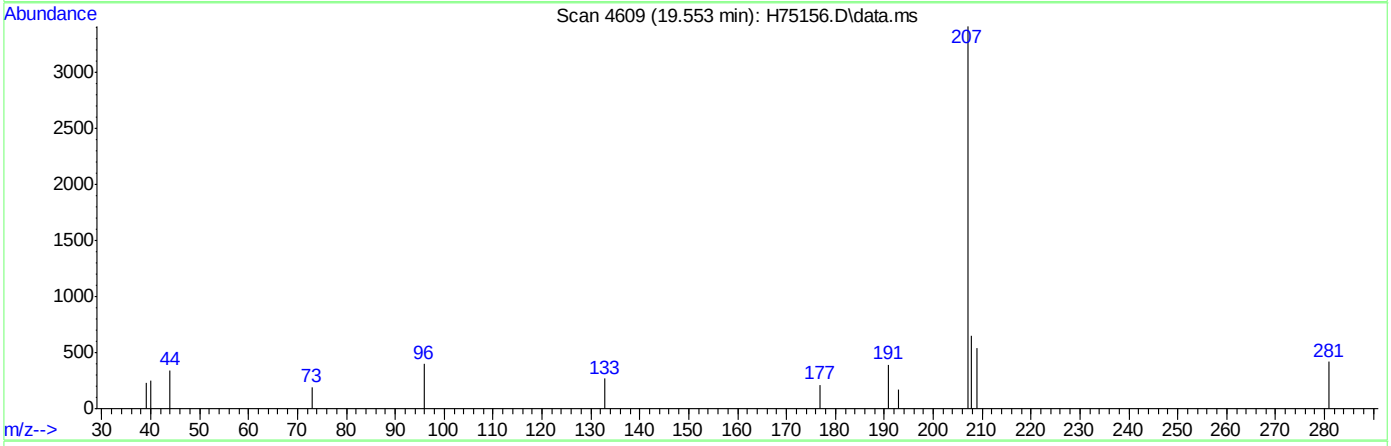
Ion	Exp%	Act%
142.00	100	100
141.00	91.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(105) 1-Methylnaphthalene (p)

19.554min (-19.554) 0.00ug/L

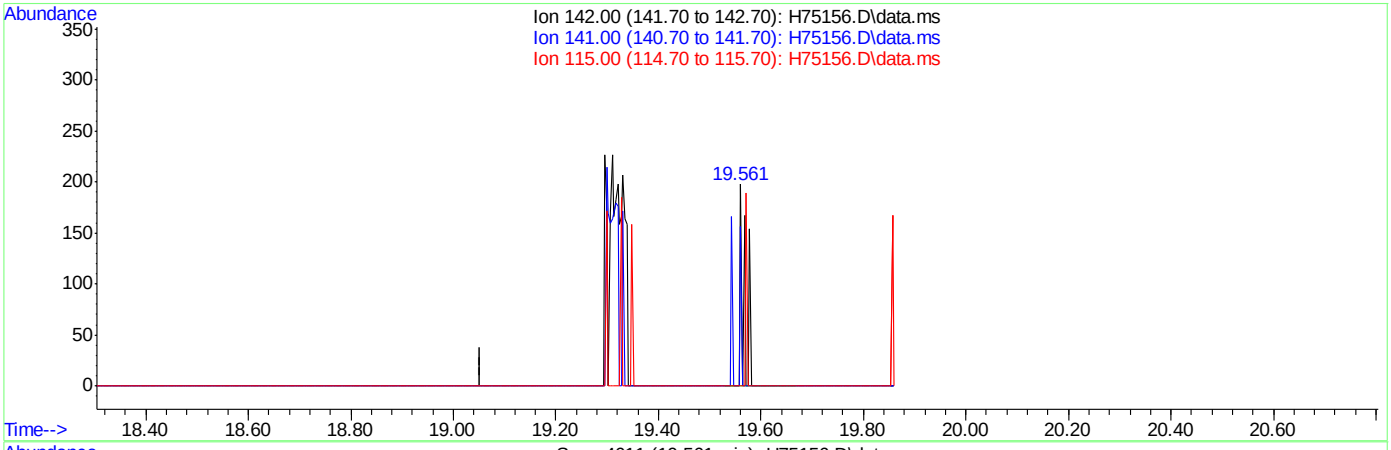
response 0

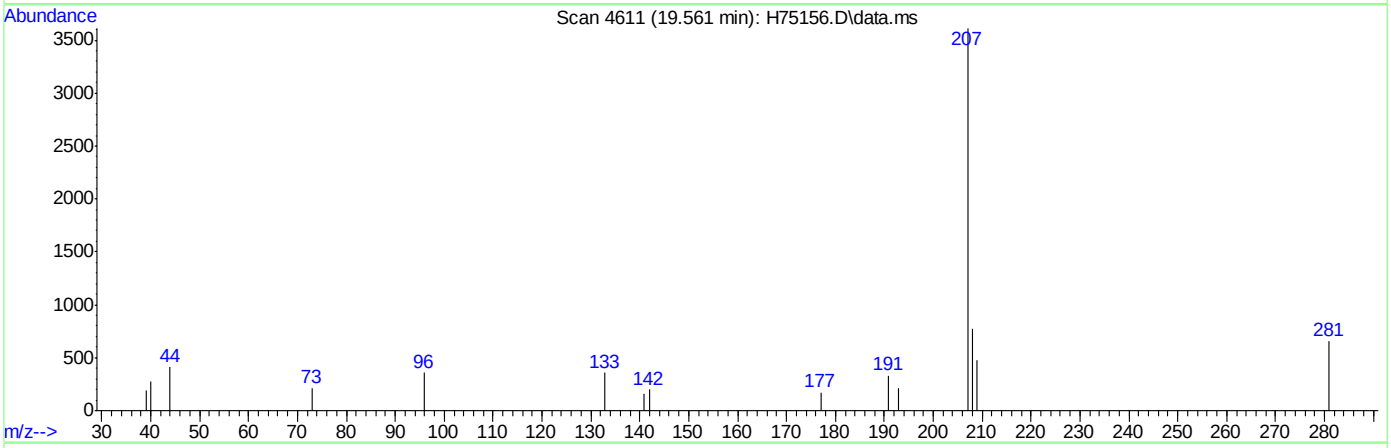
Ion	Exp%	Act%
142.00	100	0.00
141.00	21.50	0.00#
115.00	18.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(105) 1-Methylnaphthalene (p)

19.561min (+0.006) 2.79ug/L m

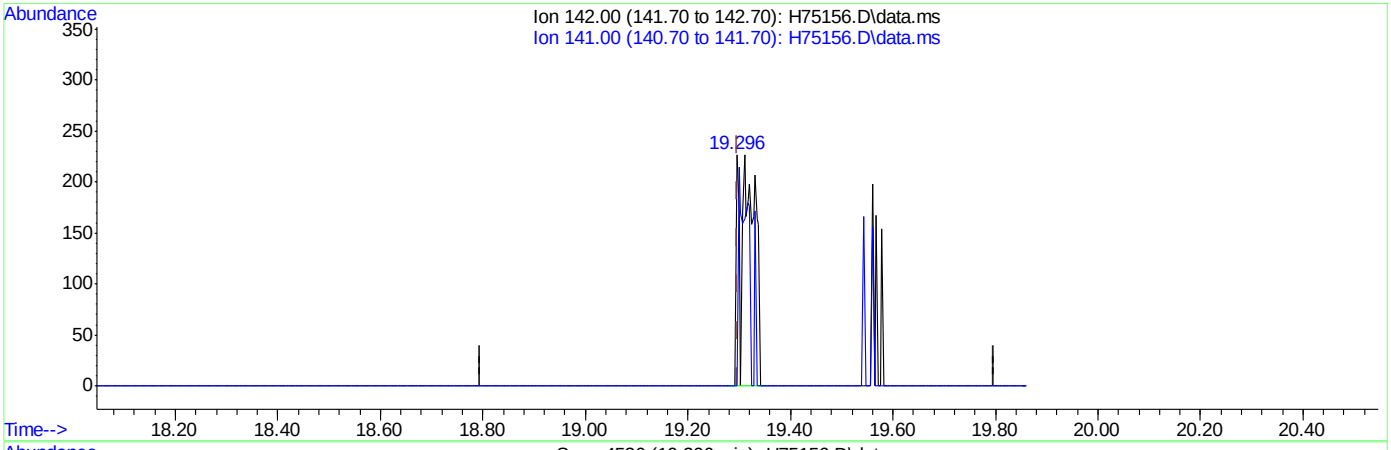
response 110

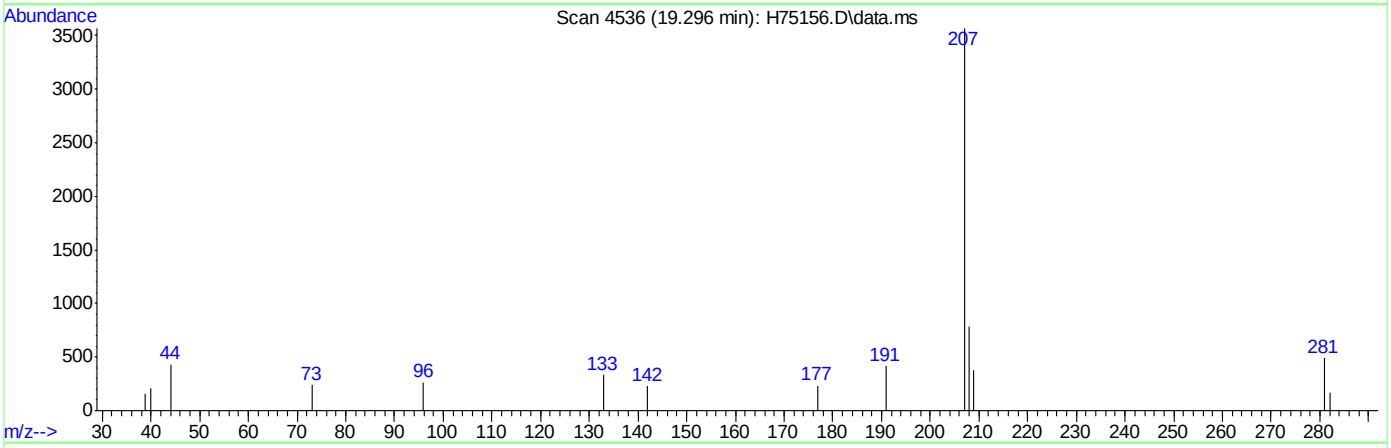
Ion	Exp%	Act%
142.00	100	100
141.00	21.50	0.00#
115.00	18.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75156.D
Acq On : 25 Sep 2015 5:35 pm
Operator : kaylap
Sample : ic2500-20
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 09:17:04 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:16:21 2015
Response via : Initial Calibration





TIC: H75156.D\data.ms

(104) 2-Methylnaphthalene (p)

19.296min (-0.001) 7.82ug/L m

response 465

Ion	Exp%	Act%
142.00	100	100
141.00	91.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

H75157.D

Manual Integrations APPROVED (compounds with "m" flag)

Sona Liskova 09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	86277	50.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	201066	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	313504	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	185806	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	171604	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	101445	40.64	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.28%			
60) toluene-d8 (s)	11.276	98	380930	40.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.68%			
82) bromofluorobenzene (s)	13.961	95	162048	40.75	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.50%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.276	59	92615	46.61	ug/L	100
3) Ethanol	5.108	45	106882m	144.22	ug/L	
5) dichlorodifluoromethane	4.021	85	110584	48.43	ug/L	98
6) chloromethane	4.268	50	97935	42.73	ug/L	93
7) vinyl chloride	4.494	62	105049	50.98	ug/L	98
8) bromomethane	4.952	96	67483	48.67	ug/L	100
9) chloroethane	5.104	64	62844	49.07	ug/L	100
10) acetonitrile	5.602	41	1436	48.54	ug/L	66
11) trichlorofluoromethane	5.693	101	156107	51.66	ug/L	96
12) freon-113	6.459	101	94285	46.52	ug/L	91
13) acrolein	5.693	56	23321	142.23	ug/L	92
14) 1,1-dichloroethene	6.272	96	83915	48.83	ug/L #	79
15) acetone	5.838	58	10367m	49.81	ug/L	
16) ethyl ether	5.930	59	83215	48.57	ug/L	85
17) methyl acetate	6.452	43	88281	42.99	ug/L	91
18) methylene chloride	6.445	84	101664	45.34	ug/L #	75
19) methyl tert butyl ether	7.200	73	258024	48.55	ug/L	89
20) acrylonitrile	6.332	53	40786	55.62	ug/L	94
21) allyl chloride	6.512	41	167499m	45.48	ug/L	
22) trans-1,2-dichloroethene	7.105	96	90843	46.88	ug/L	85
23) iodomethane	6.360	142	145982	47.30	ug/L	90
24) carbon disulfide	6.692	76	297185	46.54	ug/L	98
25) propionitrile	7.373	54	12954	54.62	ug/L	100
26) vinyl acetate	7.458	43	184839	49.64	ug/L	93
27) chloroprene	7.722	53	161365	48.95	ug/L	99
28) di-isopropyl ether	7.761	45	347700	48.26	ug/L	90
29) methacrylonitrile	7.871	41	63839	46.30	ug/L	96
30) 2-butanone	7.768	72	12177	55.46	ug/L #	60
31) 1,1-dichloroethane	7.355	63	184060	45.89	ug/L	95
32) tert-butyl ethyl ether	8.160	59	320901	49.90	ug/L	91
33) Hexane	7.744	41	176384	46.00	ug/L	86
34) isobutyl alcohol	8.156	43	43575	106.66	ug/L	78
35) 2,2-dichloropropane	8.213	77	136977	46.83	ug/L	96
36) cis-1,2-dichloroethene	7.924	96	99929	46.76	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.156	43	44030	39.60	ug/L		99
38) bromochloromethane	8.089	128	48388	46.04	ug/L	#	53
39) chloroform	8.128	83	176042	45.61	ug/L		99
41) 1,1,1-trichloroethane	8.876	97	146621	48.97	ug/L		93
43) cyclohexane	9.159	56	177826	48.05	ug/L	#	79
44) carbon tetrachloride	9.243	117	121695	52.41	ug/L		95
45) 1,1-dichloropropene	9.053	75	129546	48.66	ug/L		94
46) benzene	9.275	78	378823	47.52	ug/L		100
47) tetrahydrofuran	8.460	42	32591	48.62	ug/L		95
48) 1,2-dichloroethane	8.777	62	138837	45.73	ug/L		100
49) tert-amyl methyl ether	9.402	73	267649	51.62	ug/L		90
50) heptane	9.762	43	134878	47.18	ug/L		92
51) trichloroethene	9.896	95	101849	49.57	ug/L		82
52) 1,2-dichloropropane	9.861	63	103731	46.80	ug/L		95
53) dibromomethane	9.833	93	64183	48.89	ug/L		96
54) bromodichloromethane	9.949	83	130486	50.81	ug/L		95
55) methylcyclohexane	10.415	83	161525	48.32	ug/L		86
56) 2-chloroethyl vinyl ether	10.330	63	71306	51.57	ug/L		88
57) methyl methacrylate	10.055	69	67268	51.55	ug/L		92
58) 1,4-dioxane	10.058	88	3994	112.07	ug/L		94
59) cis-1,3-dichloropropene	10.574	75	151348	53.83	ug/L		90
61) 4-methyl-2-pentanone	10.665	43	103929	46.09	ug/L		93
62) toluene	11.346	92	230939	47.64	ug/L		96
63) trans-1,3-dichloropropene	10.994	75	142607	58.42	ug/L		97
64) 1,1,2-trichloroethane	11.163	83	77200	47.63	ug/L		93
65) ethyl methacrylate	11.375	69	127668	51.94	ug/L		88
67) tetrachloroethene	12.088	166	106032	49.89	ug/L		92
68) 1,3-dichloropropane	11.399	76	152469	45.59	ug/L		97
69) dibromochloromethane	11.685	129	91527	56.92	ug/L		99
70) 1,2-dibromoethane	11.936	107	91249	48.24	ug/L		94
71) 2-hexanone	11.530	43	76730	49.26	ug/L		94
72) chlorobenzene	12.769	112	266613	45.51	ug/L		90
73) 1,1,1,2-tetrachloroethane	12.687	131	86900	50.39	ug/L		95
74) ethylbenzene	12.945	91	453136	49.81	ug/L		97
75) m,p-xylene	13.132	106	352382	90.68	ug/L		98
76) o-xylene	13.545	106	177174	50.80	ug/L		100
77) styrene	13.471	104	280541	48.60	ug/L		97
78) bromoform	13.291	173	58318	61.41	ug/L		100
79) trans-1,4-dichloro-2-b...	13.704	53	31135	61.04	ug/L		94
81) isopropylbenzene	13.908	105	444058	47.94	ug/L		99
83) bromobenzene	14.187	156	120077	47.03	ug/L		85
84) 1,1,2,2-tetrachloroethane	13.545	83	115157	49.26	ug/L		96
85) 1,2,3-trichloropropane	13.697	75	126244	50.79	ug/L		95
86) n-propylbenzene	14.353	91	530803	48.85	ug/L		94
87) 2-chlorotoluene	14.469	91	314670	47.05	ug/L		90
88) 4-chlorotoluene	14.544	91	331465	47.58	ug/L		90
89) 1,3,5-trimethylbenzene	14.635	105	374941	50.76	ug/L		99
90) tert-butylbenzene	14.939	91	221075	47.95	ug/L		89
91) 1,2,4-trimethylbenzene	15.045	105	382430	51.04	ug/L		99
92) sec-butylbenzene	15.161	105	477141	48.07	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.260	146	216161	47.30	ug/L	98
94) p-isopropyltoluene	15.338	119	407507	48.42	ug/L	97
95) 1,4-dichlorobenzene	15.327	146	232756	45.41	ug/L	98
96) 1,2-dichlorobenzene	15.694	146	204036	46.87	ug/L	98
97) n-butylbenzene	15.757	91	372773	48.89	ug/L	92
98) 1,2-dibromo-3-chloropr...	16.177	75	12526	49.12	ug/L	83
99) 1,3,5-trichlorobenzene	16.993	180	130257	46.21	ug/L	95
100) 1,2,4-trichlorobenzene	17.547	180	70281	46.07	ug/L	98
101) hexachlorobutadiene	17.850	225	51115	44.46	ug/L	95
102) naphthalene	17.822	128	110514	46.66	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	70281	46.07	ug/L	100
104) 2-Methylnaphthalene	19.297	142	1566	25.00	ug/L	91
105) 1-Methylnaphthalene	19.554	142	1038	25.00	ug/L #	12

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

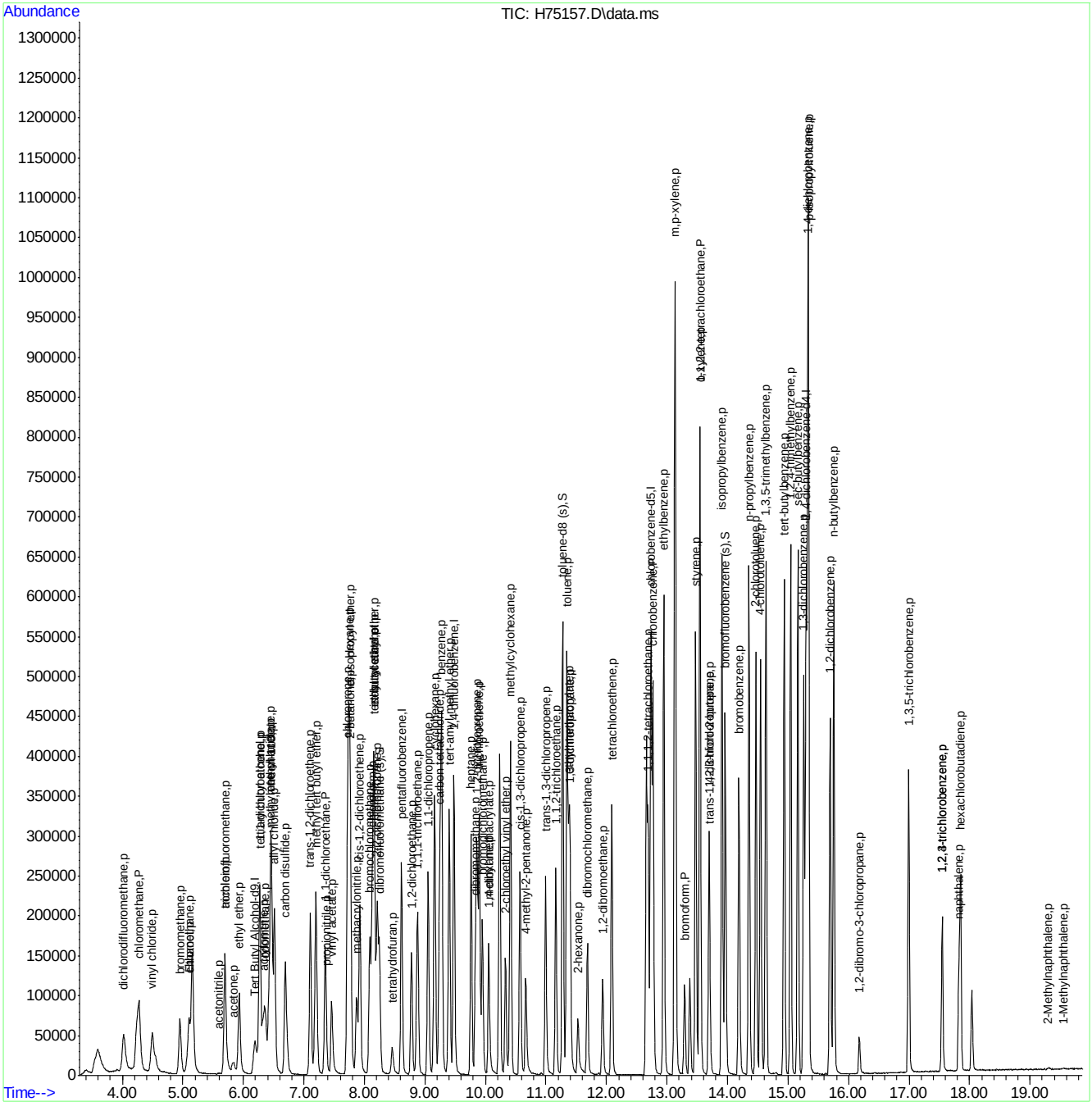
7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

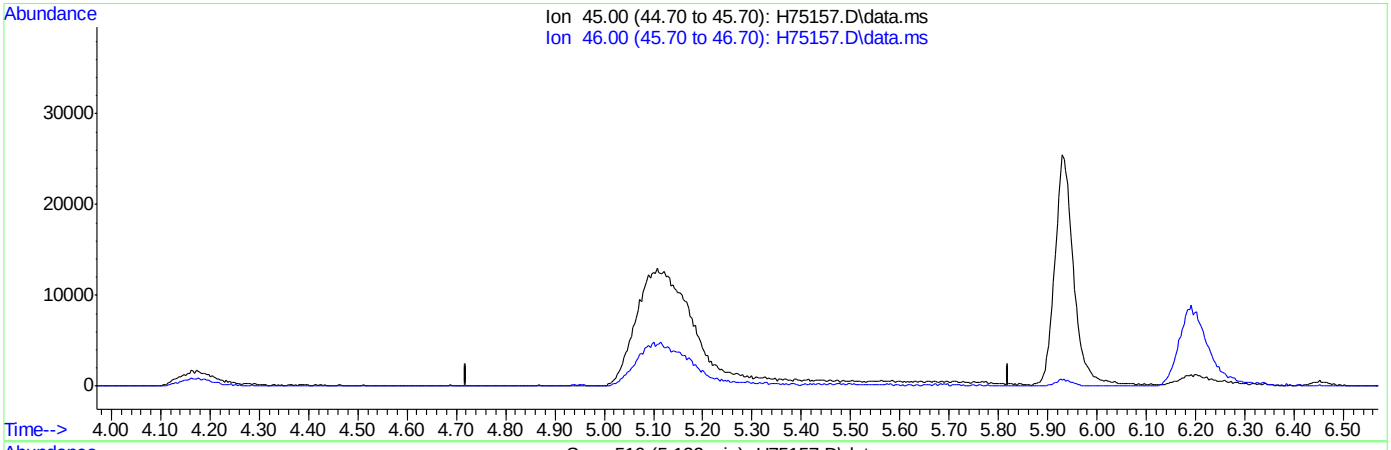
Quant Time: Sep 28 09:23:07 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration

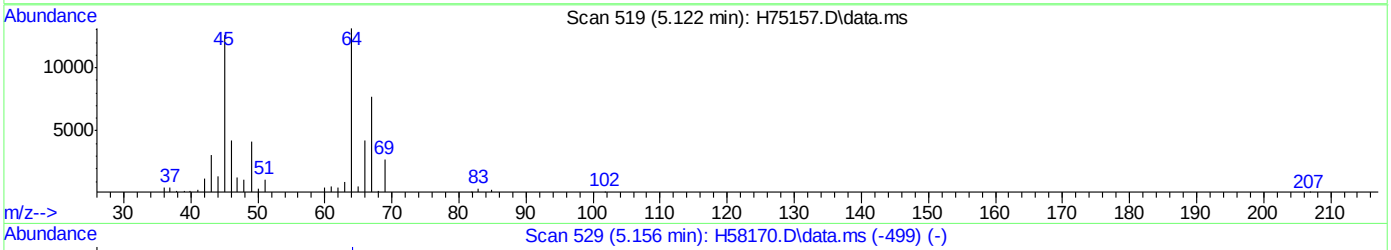


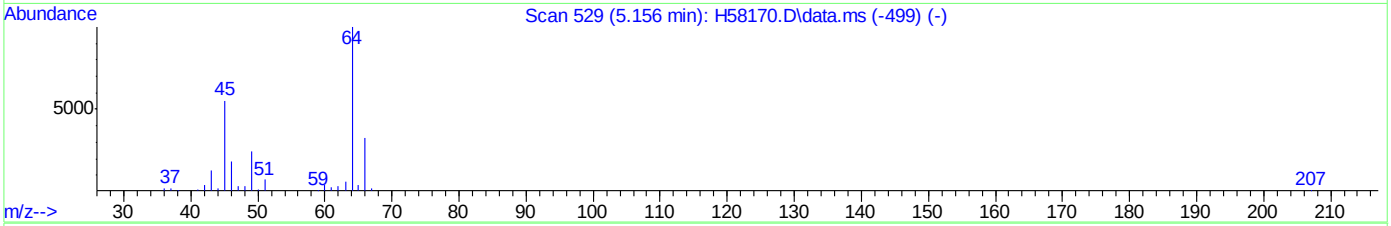
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(3) Ethanol (p)

5.121min (-5.121) 0.00ug/L

response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

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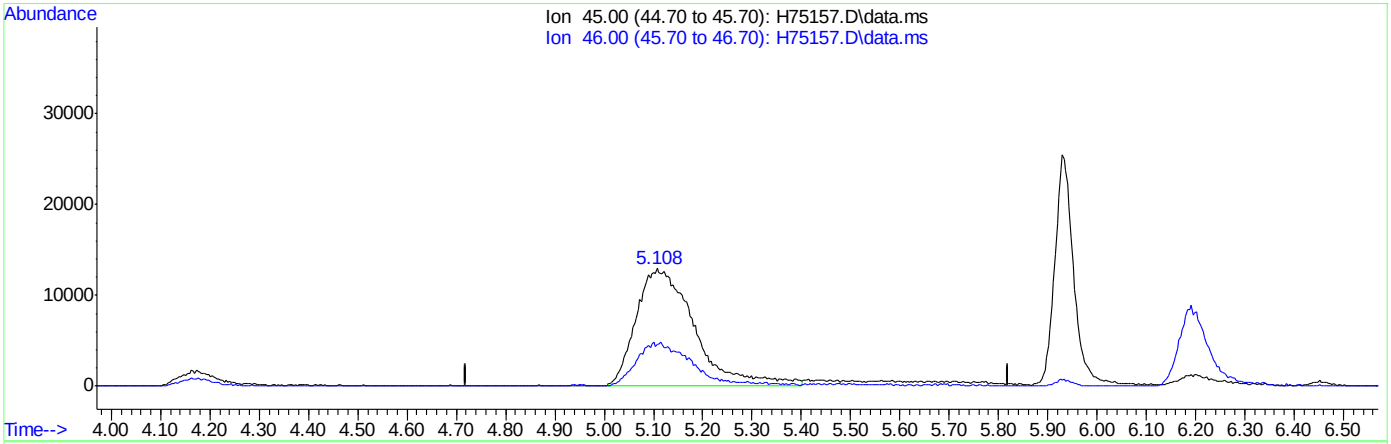
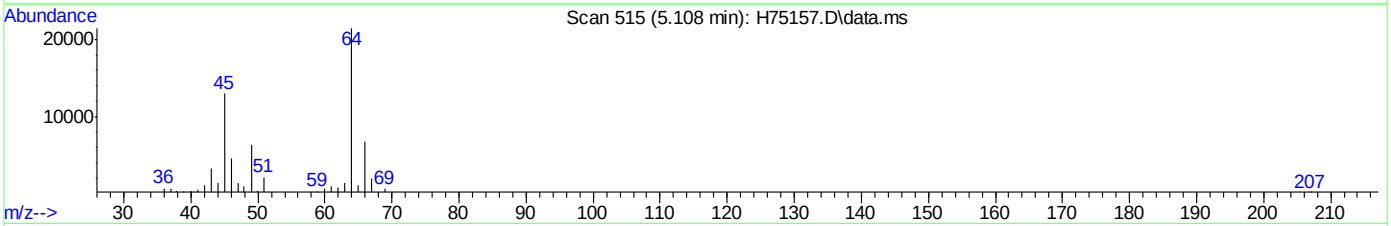
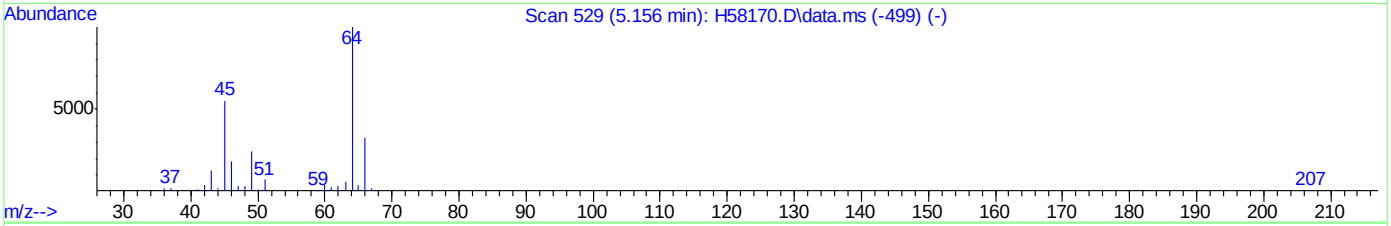
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(3) Ethanol (p)

5.108min (-0.013) 144.22ug/L m

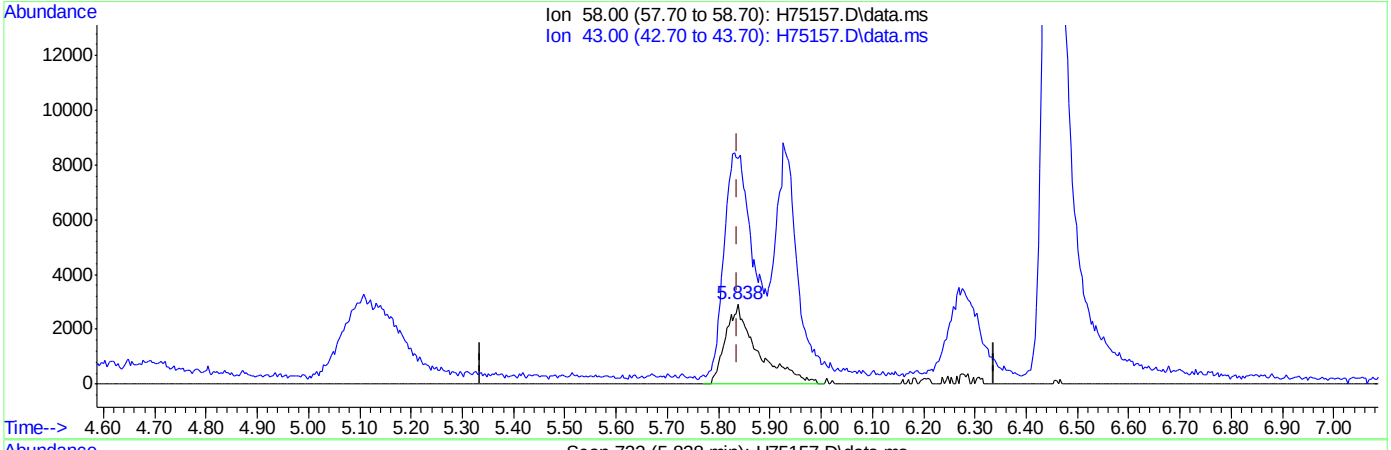
response 106882

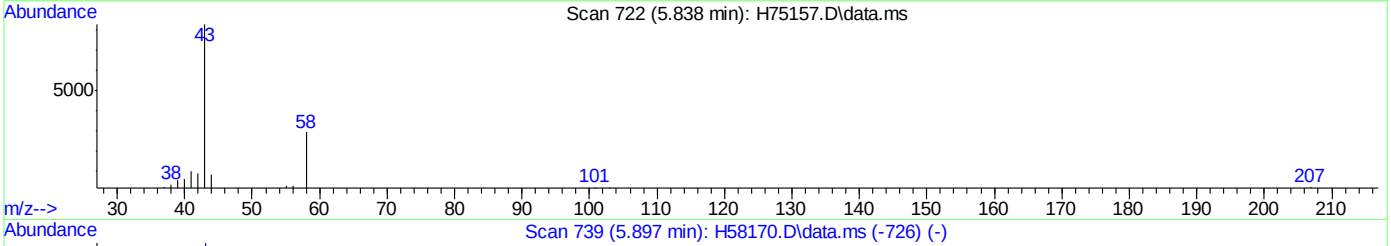
Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

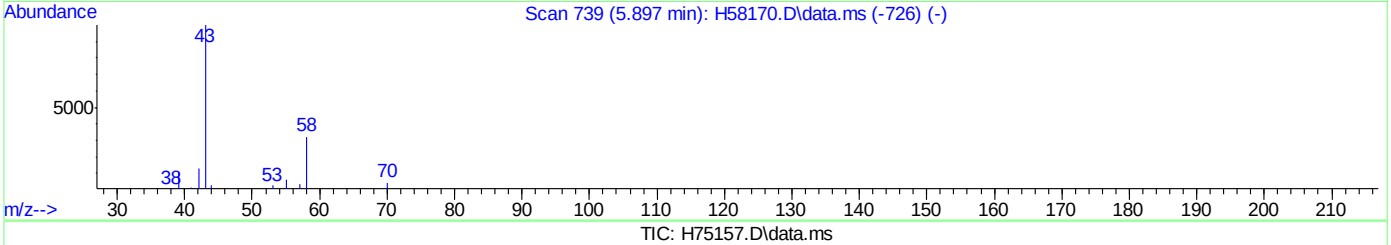
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(15) acetone (p)

5.838min (+0.001) 61.06ug/L

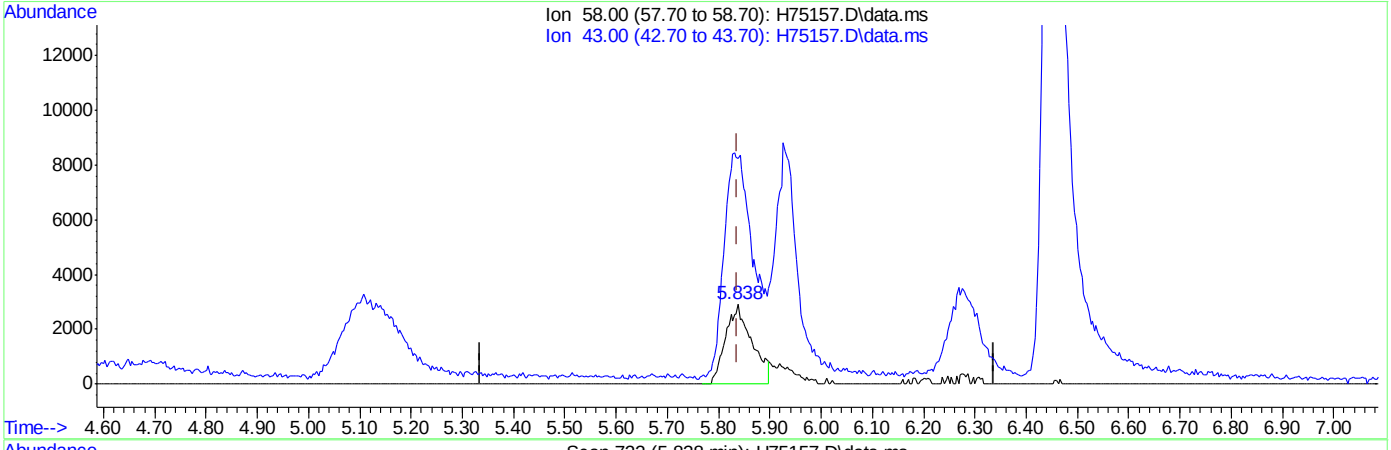
response 12708

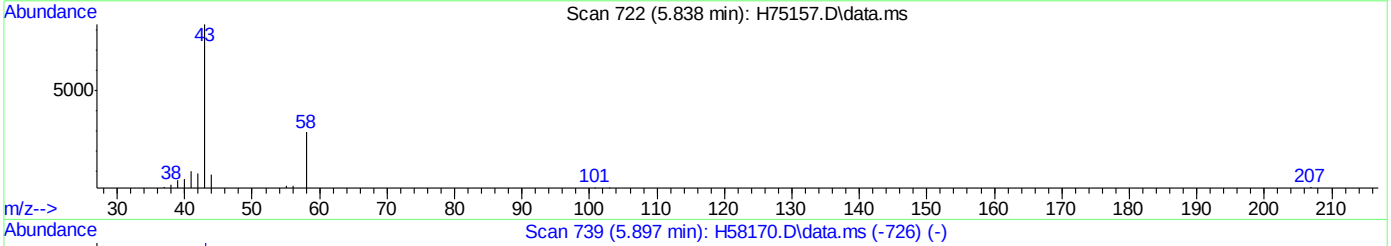
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	270.13#
0.00	0.00	0.00
0.00	0.00	0.00

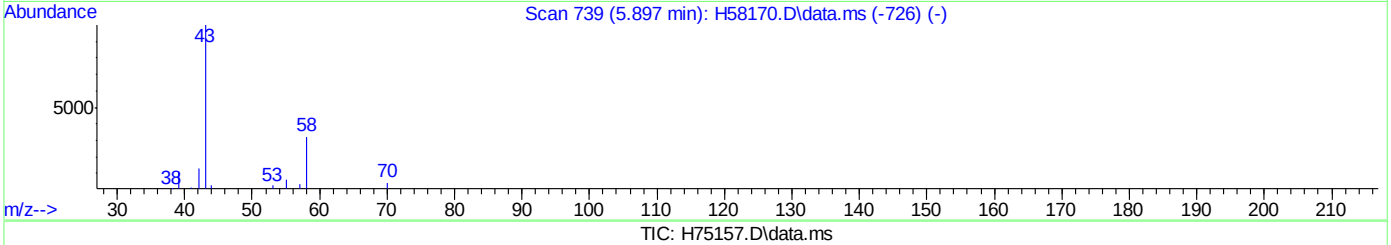
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(15) acetone (p)

5.838min (+0.001) 49.81ug/L m

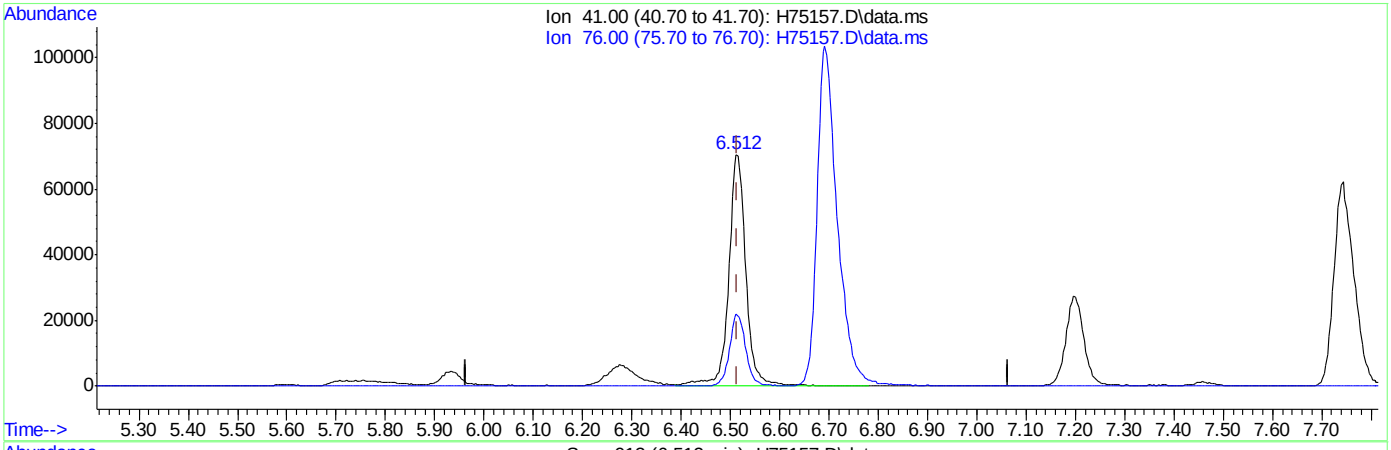
response 10367

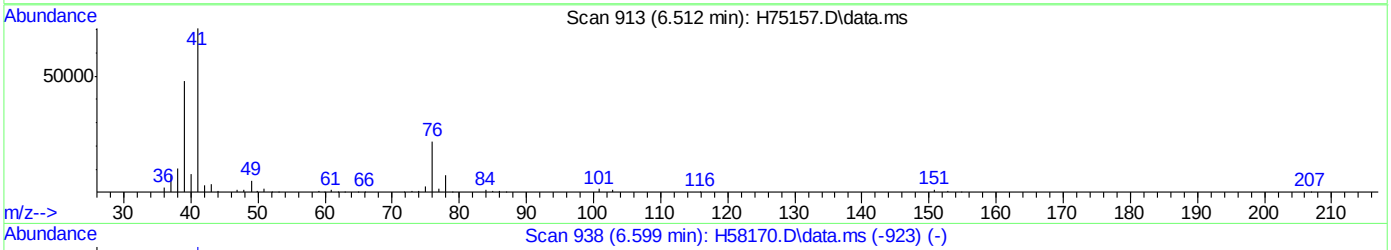
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	282.31
0.00	0.00	0.00
0.00	0.00	0.00

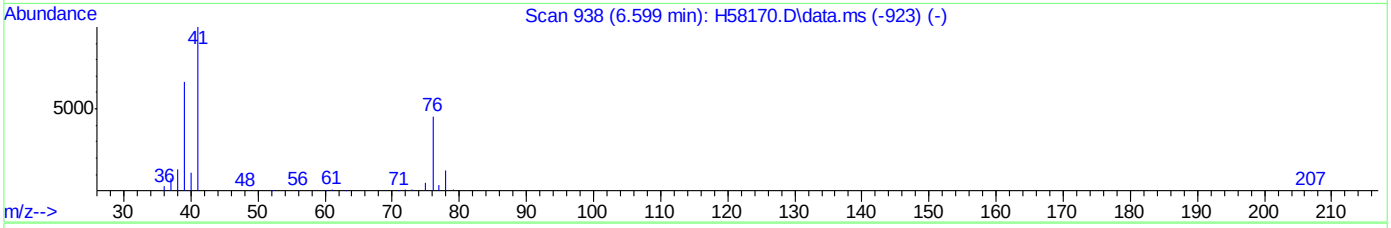
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(21) allyl chloride (p)

6.512min (-0.003) 46.88ug/L

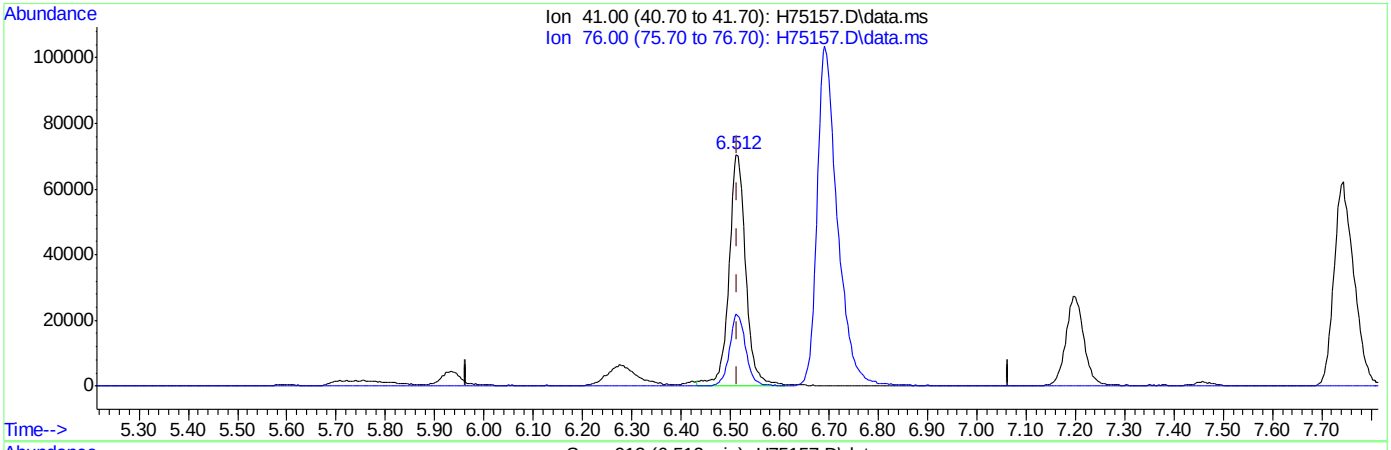
response 172653

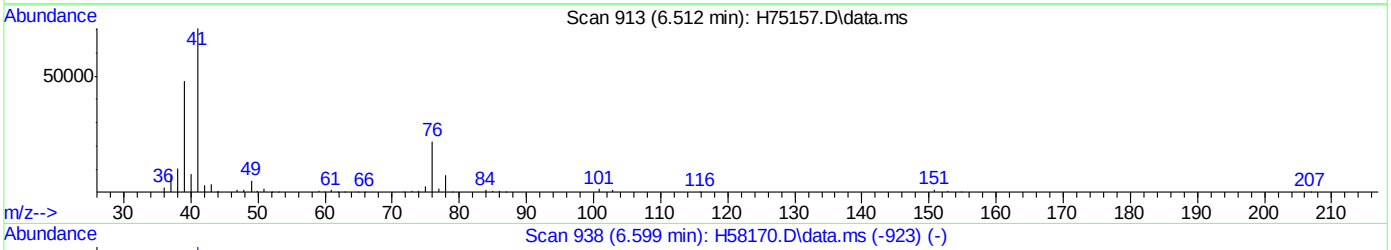
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.17
0.00	0.00	0.00
0.00	0.00	0.00

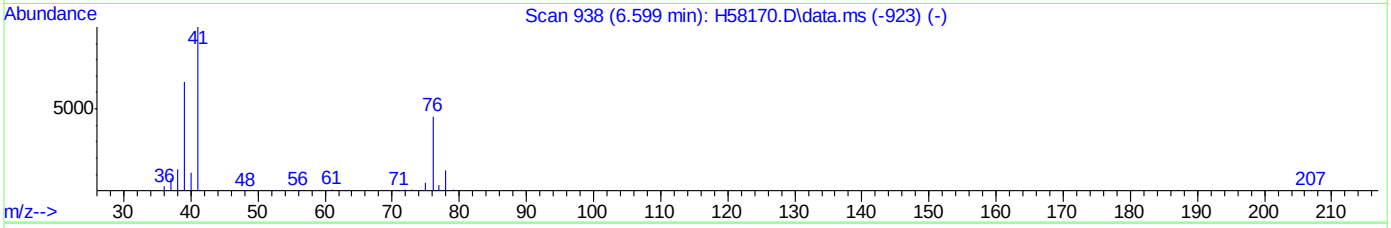
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75157.D
Acq On : 25 Sep 2015 6:02 pm
Operator : kaylap
Sample : icc2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 28 09:22:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:21:41 2015
Response via : Initial Calibration







TIC: H75157.D\data.ms

(21) allyl chloride (p)

6.512min (-0.003) 45.48ug/L m

response 167499

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.188	65	91409	500.00	ug/L	0.00
4) pentafluorobenzene	8.616	168	215895	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	335542	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	192632m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	171098	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	107211	40.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 80.00%			
60) toluene-d8 (s)	11.276	98	400291	40.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 80.18%			
82) bromofluorobenzene (s)	13.962	95	173828	43.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.68%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.272	59	209481	1213.28	ug/L	94
3) Ethanol	5.097	45	238443m	12577.10	ug/L	
5) dichlorodifluoromethane	4.025	85	231839	94.56	ug/L	100
6) chloromethane	4.265	50	191396	78.09	ug/L	97
7) vinyl chloride	4.494	62	224974	101.68	ug/L	99
8) bromomethane	4.956	96	138780	93.19	ug/L	100
9) chloroethane	5.108	64	136550	99.28	ug/L	99
10) acetonitrile	5.595	41	3001	94.47	ug/L	75
11) trichlorofluoromethane	5.694	101	335554	103.42	ug/L	99
12) freon-113	6.463	101	208605	95.85	ug/L	91
13) acrolein	5.690	56	52848	593.72	ug/L	92
14) 1,1-dichloroethene	6.269	96	187118	101.40	ug/L #	77
15) acetone	5.821	58	23936m	108.25	ug/L	
16) ethyl ether	5.930	59	186306	101.28	ug/L	86
17) methyl acetate	6.449	43	199288m	90.79	ug/L	
18) methylene chloride	6.445	84	223457	92.81	ug/L #	74
19) methyl tert butyl ether	7.201	73	583545	102.26	ug/L	89
20) acrylonitrile	6.322	53	92691	117.71	ug/L	97
21) allyl chloride	6.512	41	371300m	93.76	ug/L	
22) trans-1,2-dichloroethene	7.105	96	203235	97.69	ug/L	83
23) iodomethane	6.364	142	328609	99.16	ug/L	88
24) carbon disulfide	6.692	76	669816	97.71	ug/L	98
25) propionitrile	7.363	54	31658	127.51	ug/L	100
26) vinyl acetate	7.455	43	396354	99.14	ug/L	94
27) chloroprene	7.719	53	364488	102.97	ug/L	100
28) di-isopropyl ether	7.762	45	764639	98.84	ug/L	93
29) methacrylonitrile	7.871	41	145257	98.25	ug/L	94
30) 2-butanone	7.762	72	27708	117.40	ug/L #	13
31) 1,1-dichloroethane	7.356	63	409128	94.99	ug/L	95
32) tert-butyl ethyl ether	8.157	59	736321	106.65	ug/L	91
33) Hexane	7.740	41	377065	91.55	ug/L #	84
34) isobutyl alcohol	8.157	43	93083	393.89	ug/L	81
35) 2,2-dichloropropane	8.213	77	307658	97.95	ug/L	97
36) cis-1,2-dichloroethene	7.924	96	222480	96.96	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.157	43	94498	79.16	ug/L		99
38) bromochloromethane	8.086	128	108292	95.96	ug/L	#	53
39) chloroform	8.129	83	393010	94.82	ug/L		98
41) 1,1,1-trichloroethane	8.877	97	326920	101.69	ug/L		94
43) cyclohexane	9.159	56	394385	99.57	ug/L	#	78
44) carbon tetrachloride	9.240	117	279526	112.46	ug/L		96
45) 1,1-dichloropropene	9.053	75	292485	102.64	ug/L		92
46) benzene	9.272	78	846171	99.17	ug/L		100
47) tetrahydrofuran	8.453	42	71212	99.00	ug/L		90
48) 1,2-dichloroethane	8.778	62	305587	94.09	ug/L		99
49) tert-amyl methyl ether	9.399	73	607207	109.42	ug/L		92
50) heptane	9.762	43	292438	95.43	ug/L		92
51) trichloroethene	9.897	95	228891	104.25	ug/L		82
52) 1,2-dichloropropane	9.861	63	231530	97.60	ug/L		96
53) dibromomethane	9.837	93	142838	101.65	ug/L		98
54) bromodichloromethane	9.949	83	293467	106.77	ug/L		96
55) methylcyclohexane	10.415	83	358960	100.31	ug/L		87
56) 2-chloroethyl vinyl ether	10.331	63	152186	102.83	ug/L		89
57) methyl methacrylate	10.052	69	152090	108.90	ug/L		92
58) 1,4-dioxane	10.055	88	9827	626.94	ug/L		96
59) cis-1,3-dichloropropene	10.571	75	345134	114.70	ug/L		91
61) 4-methyl-2-pentanone	10.662	43	231946	96.10	ug/L		94
62) toluene	11.347	92	511172	98.53	ug/L		100
63) trans-1,3-dichloropropene	10.990	75	330249	126.39	ug/L		99
64) 1,1,2-trichloroethane	11.160	83	169581	97.76	ug/L		91
65) ethyl methacrylate	11.375	69	297086	112.92	ug/L		89
67) tetrachloroethene	12.088	166	237678	107.88	ug/L		91
68) 1,3-dichloropropane	11.400	76	336061	96.91	ug/L		97
69) dibromochloromethane	11.686	129	214097	128.42	ug/L		99
70) 1,2-dibromoethane	11.936	107	208984	106.57	ug/L		95
71) 2-hexanone	11.523	43	166160	103.07	ug/L		97
72) chlorobenzene	12.765	112	599123	98.65	ug/L		90
73) 1,1,1,2-tetrachloroethane	12.688	131	198194	110.84	ug/L		96
74) ethylbenzene	12.945	91	1038939	110.15	ug/L		98
75) m,p-xylene	13.132	106	817347	234.42	ug/L		100
76) o-xylene	13.545	106	405535	112.18	ug/L		100
77) styrene	13.471	104	661760	110.66	ug/L		98
78) bromoform	13.291	173	142017	144.25	ug/L		98
79) trans-1,4-dichloro-2-b...	13.697	53	76118	143.93	ug/L	#	79
81) isopropylbenzene	13.909	105	1005549	108.89	ug/L		99
83) bromobenzene	14.188	156	272180	106.91	ug/L		88
84) 1,1,2,2-tetrachloroethane	13.549	83	248692	106.69	ug/L		96
85) 1,2,3-trichloropropane	13.697	75	287056	115.83	ug/L		94
86) n-propylbenzene	14.353	91	1193699	110.15	ug/L		96
87) 2-chlorotoluene	14.470	91	688330	103.14	ug/L		91
88) 4-chlorotoluene	14.547	91	741259	106.77	ug/L		91
89) 1,3,5-trimethylbenzene	14.636	105	810705	110.08	ug/L		99
90) tert-butylbenzene	14.936	91	468773	101.99	ug/L		90
91) 1,2,4-trimethylbenzene	15.045	105	816411	109.28	ug/L		100
92) sec-butylbenzene	15.162	105	1001642	101.21	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.260	146	464297	101.90	ug/L	100
94) p-isopropyltoluene	15.338	119	858243	102.27	ug/L	98
95) 1,4-dichlorobenzene	15.327	146	497273	97.30	ug/L	99
96) 1,2-dichlorobenzene	15.694	146	408800	94.19	ug/L	99
97) n-butylbenzene	15.754	91	764630	100.58	ug/L	92
98) 1,2-dibromo-3-chloropr...	16.178	75	23263	91.50	ug/L	91
99) 1,3,5-trichlorobenzene	16.993	180	233716	83.16	ug/L #	95
100) 1,2,4-trichlorobenzene	17.547	180	120754	79.40	ug/L	96
101) hexachlorobutadiene	17.850	225	77723	67.81	ug/L	98
102) naphthalene	17.822	128	177505	75.16	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	120754	79.40	ug/L	98
104) 2-Methylnaphthalene	19.294	142	3091	49.49	ug/L	95
105) 1-Methylnaphthalene	19.562	142	2118	51.16	ug/L #	1

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

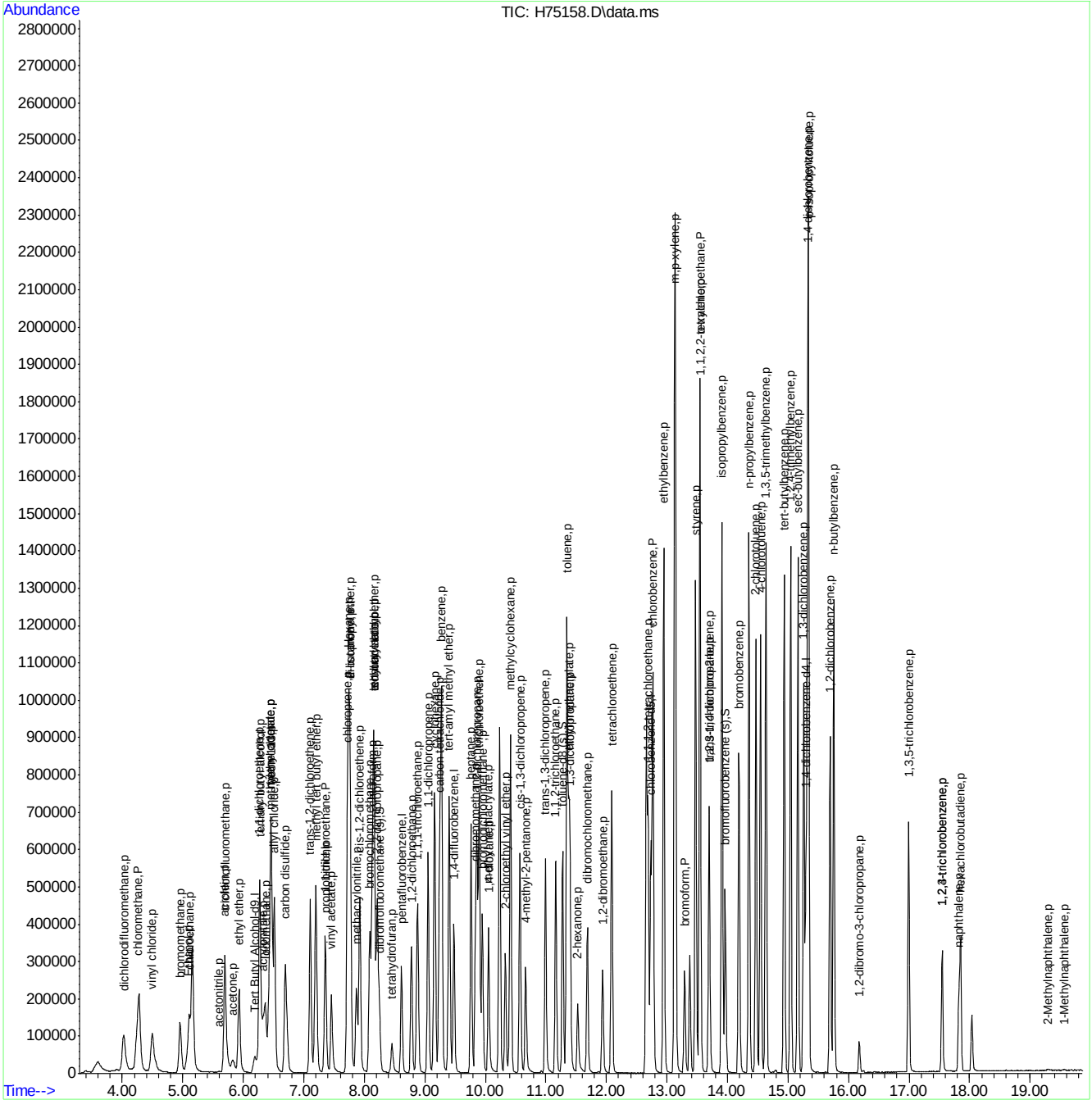
7.6.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:32:29 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On    : 25 Sep 2015   6:29 pm
Operator  : kaylap
Sample    : ic2500-100
Misc      : ms35288,msh2500,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title  : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration
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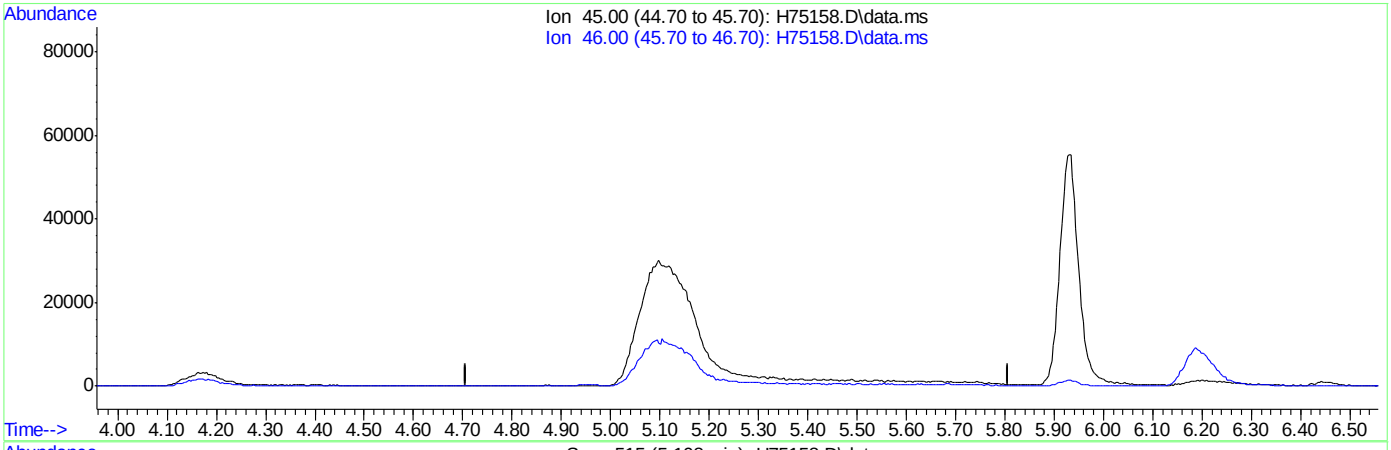
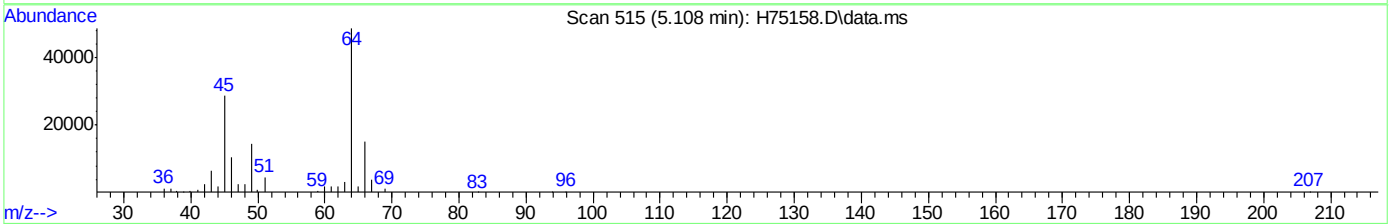
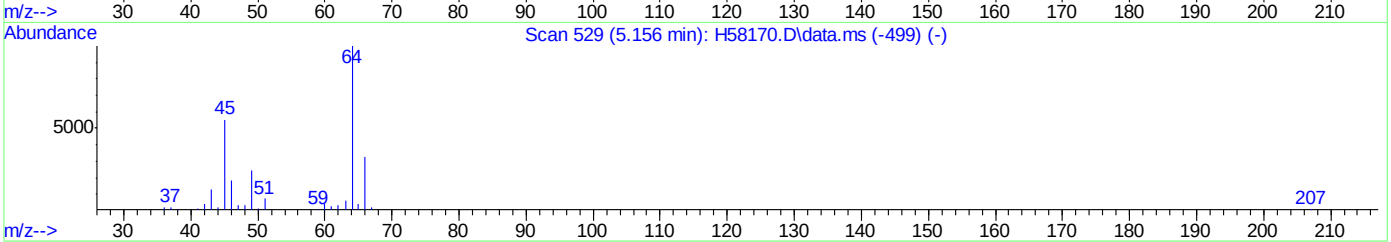






TIC: H75158.D\data.ms

(3) Ethanol (p)

5.108min (-5.108) 0.00ug/L

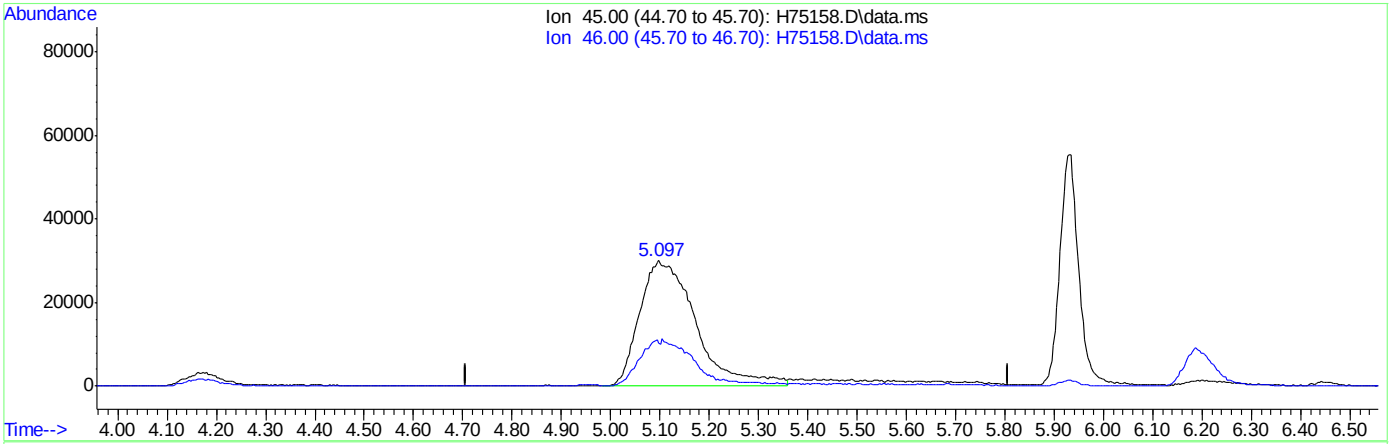
response 0

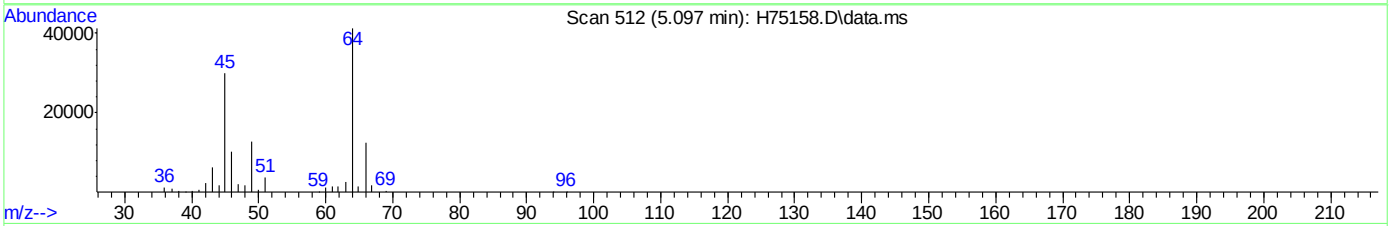
Ion	Exp%	Act%
45.00	100	0.00
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

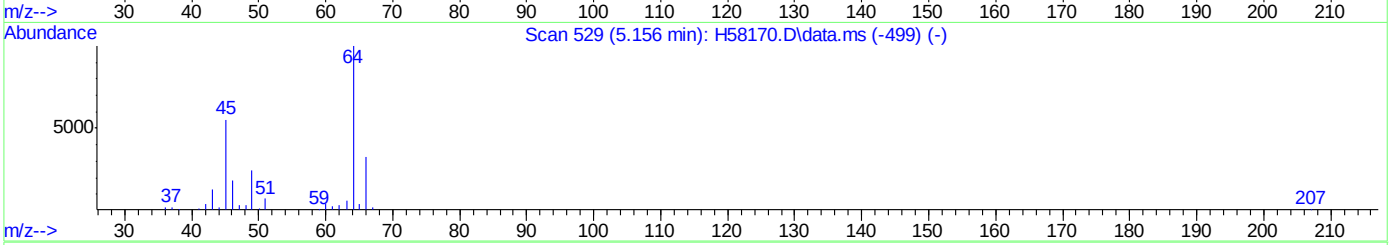
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(3) Ethanol (p)

5.097min (-0.010) 12577.10ug/L m

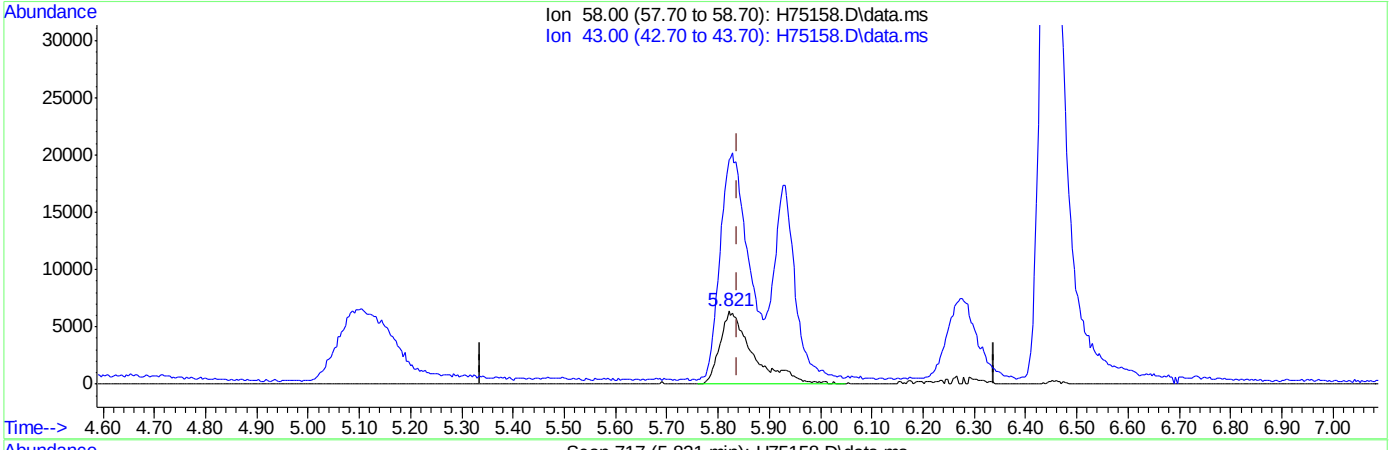
response 238443

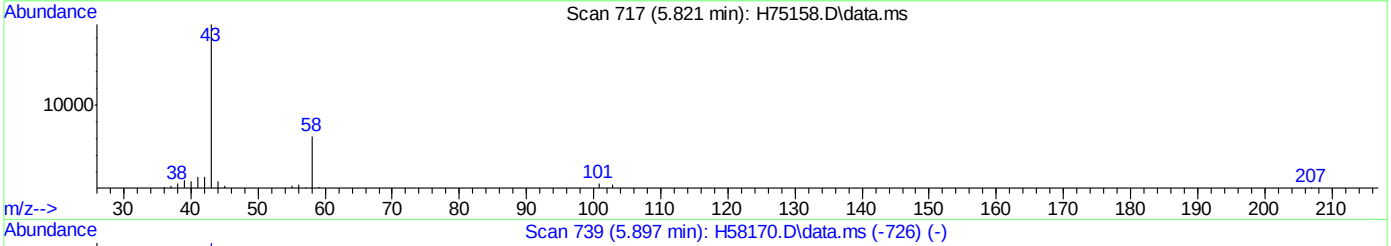
Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

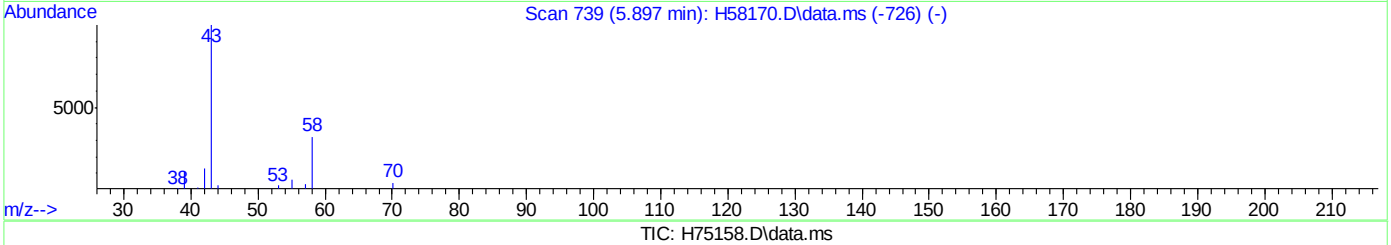
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(15) acetone (p)

5.821min (-0.017) 129.14ug/L

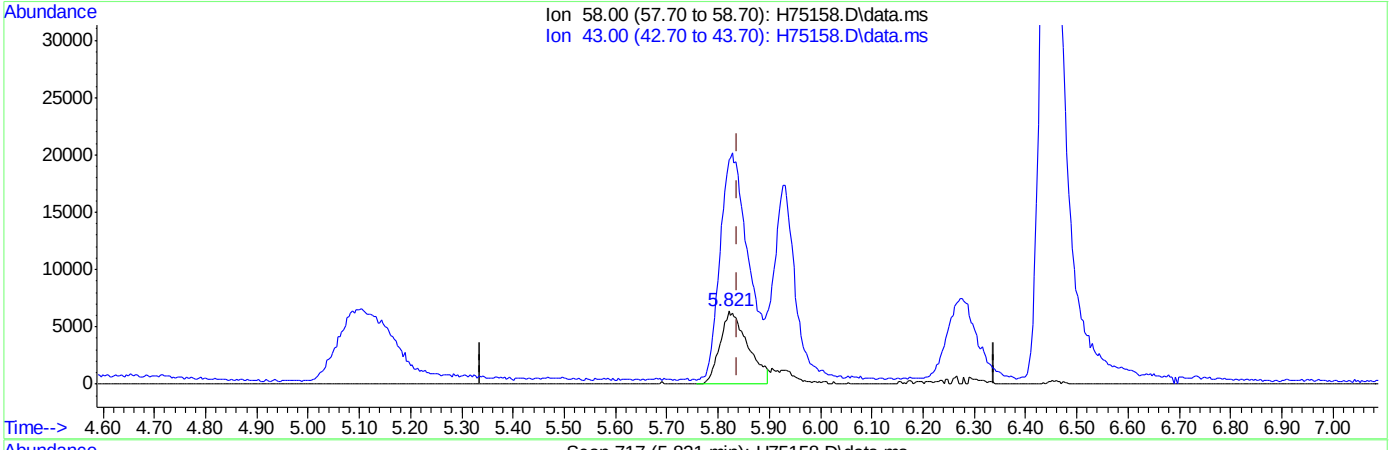
response 28555

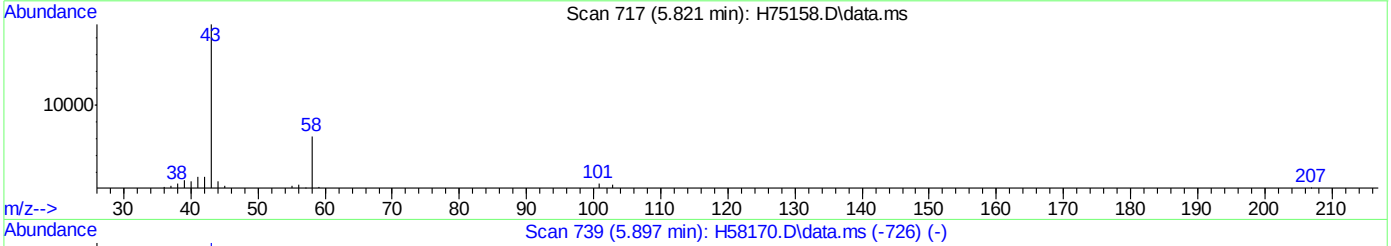
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	301.94
0.00	0.00	0.00
0.00	0.00	0.00

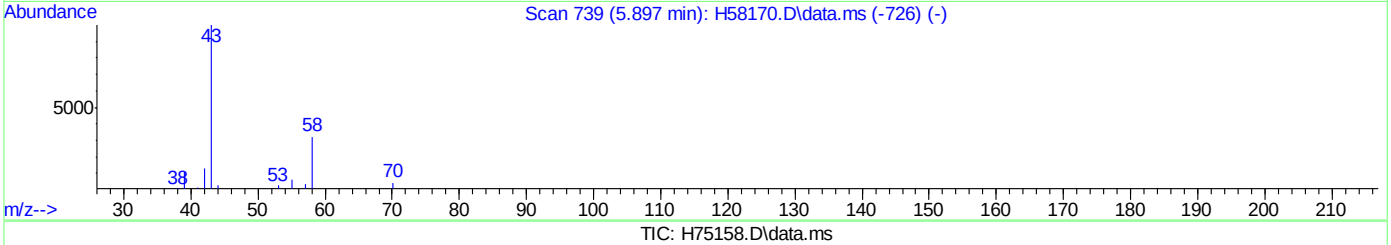
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(15) acetone (p)

5.821min (-0.017) 108.25ug/L m

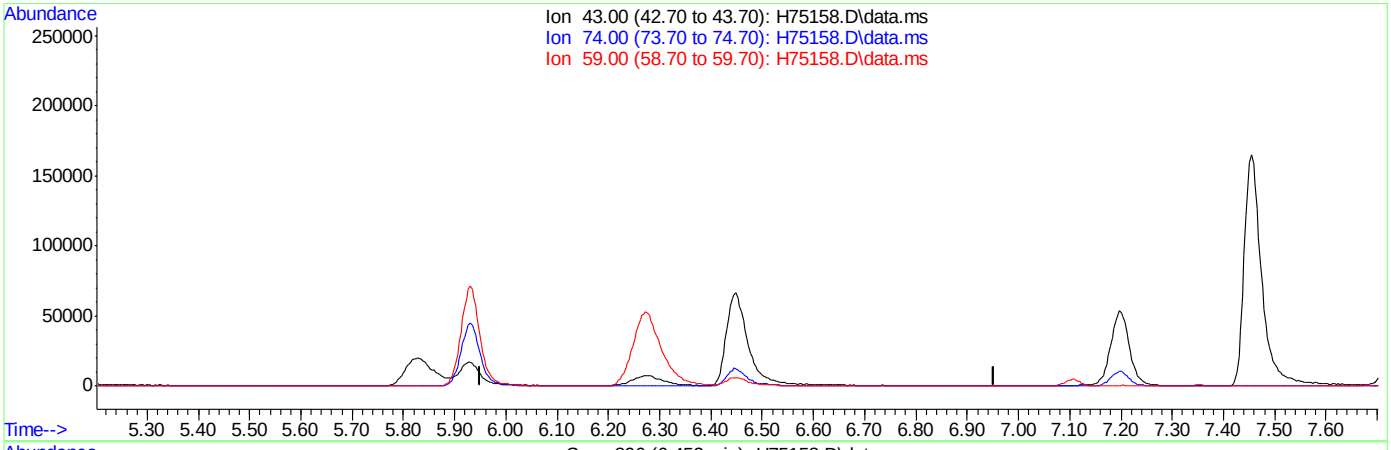
response 23936

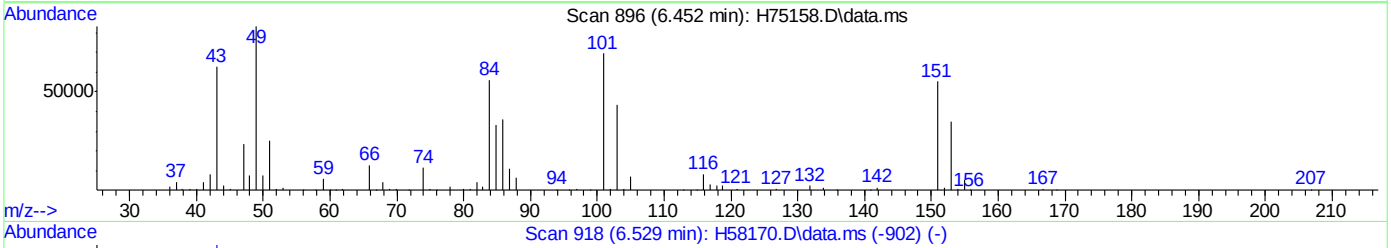
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	309.12
0.00	0.00	0.00
0.00	0.00	0.00

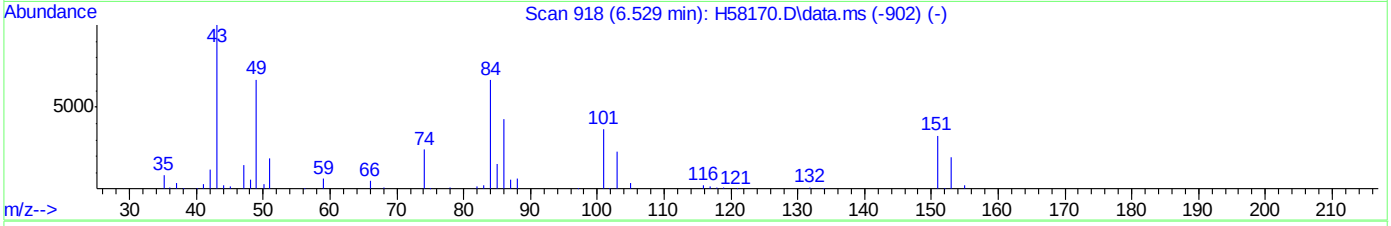
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(17) methyl acetate (p)

6.452min (-6.452) 0.00ug/L

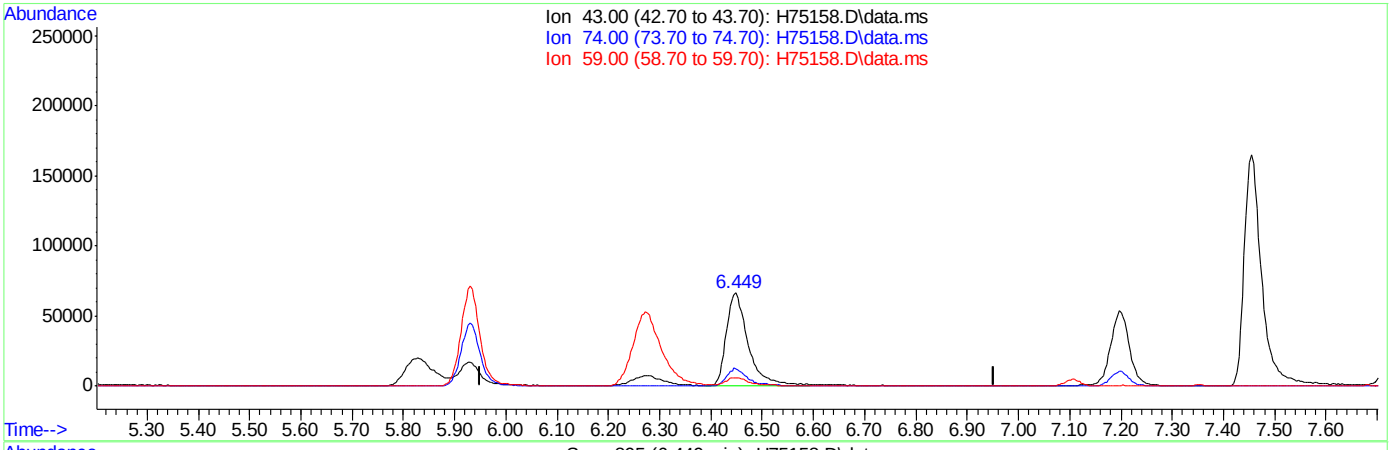
response 0

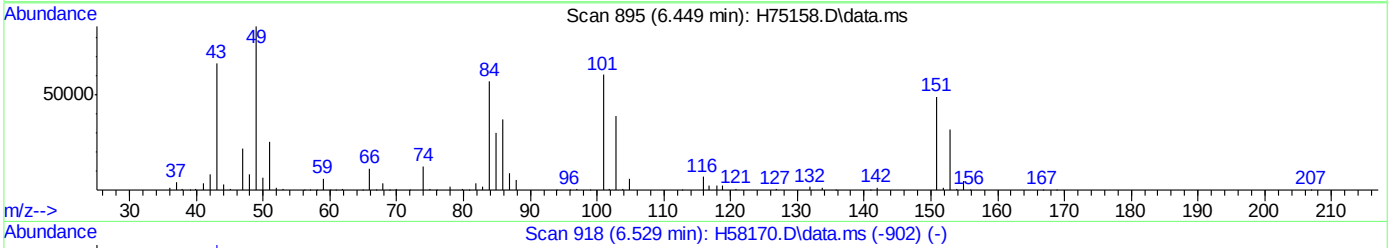
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

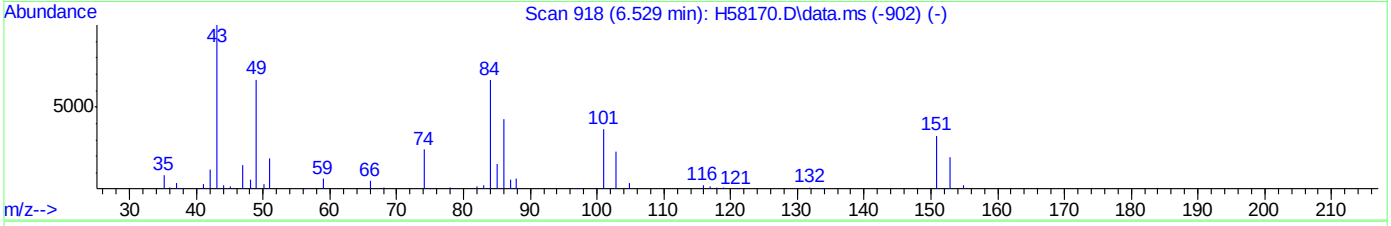
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(17) methyl acetate (p)

6.449min (-0.003) 90.79ug/L m

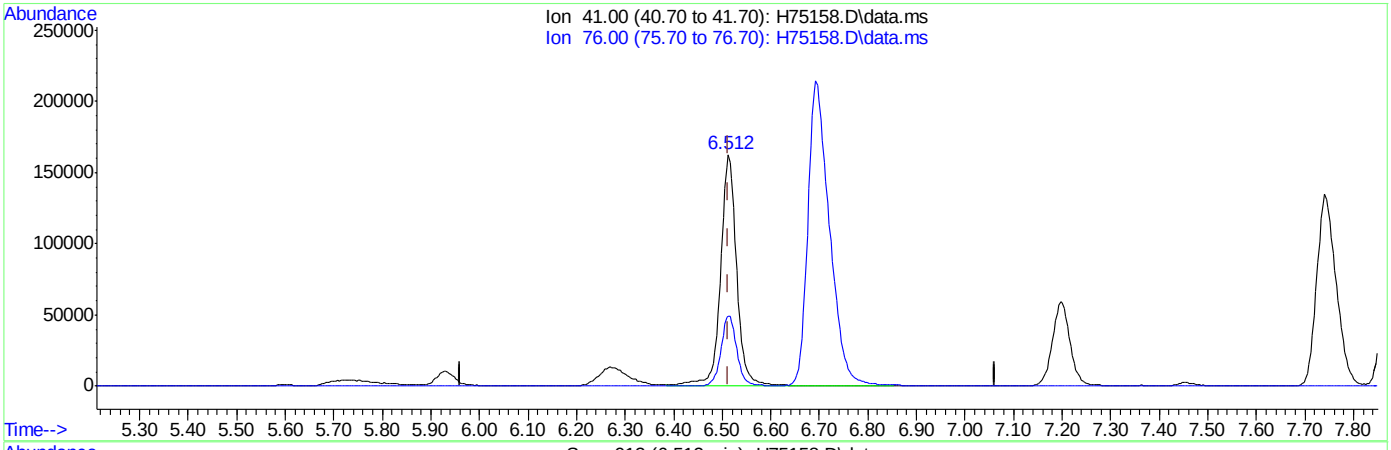
response 199288

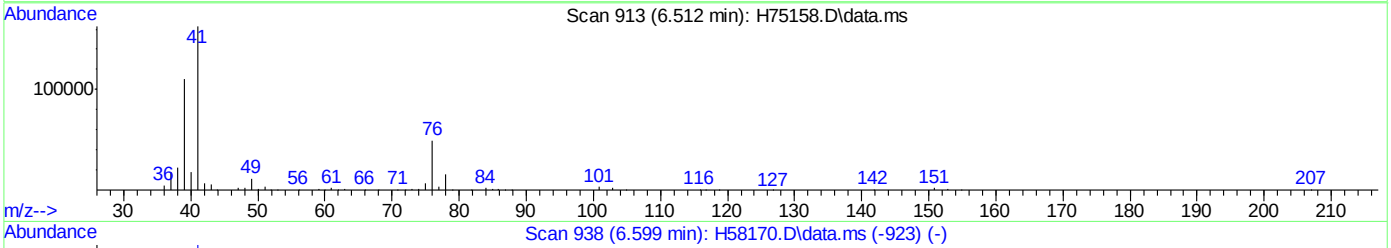
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	18.98
59.00	13.30	9.21
0.00	0.00	0.00

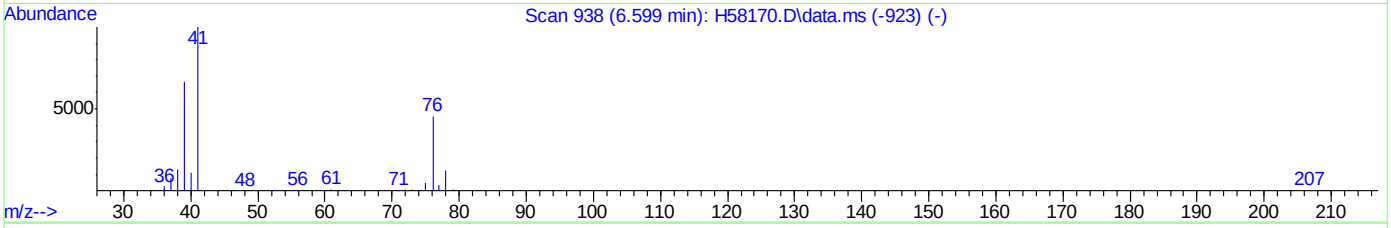
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(21) allyl chloride (p)

6.512min (+0.000) 97.69ug/L

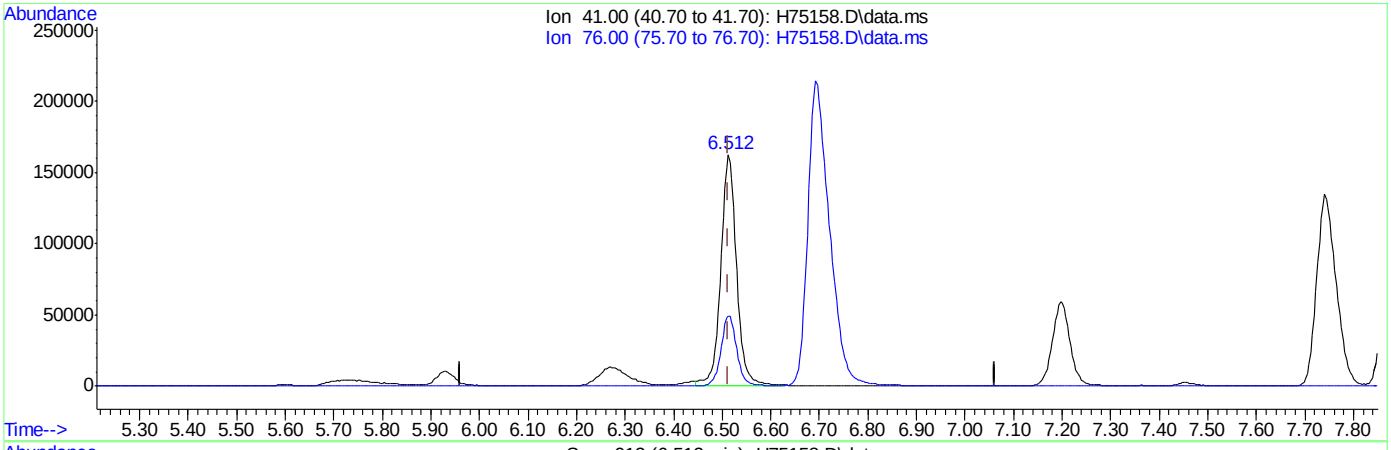
response 386862

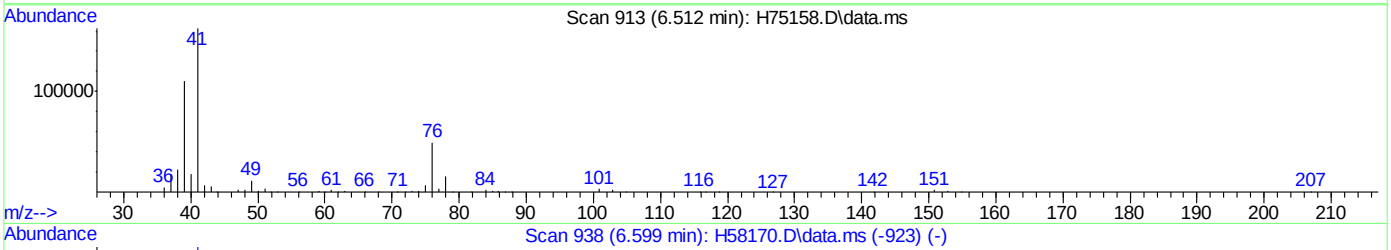
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

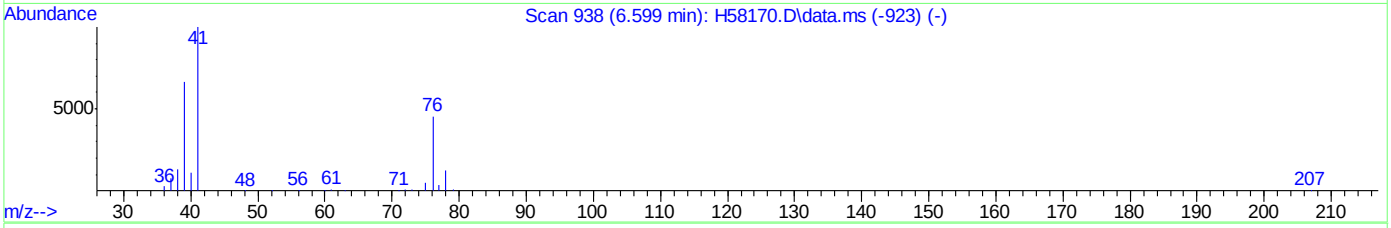
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:30:15 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration







TIC: H75158.D\data.ms

(21) allyl chloride (p)

6.512min (+0.000) 93.76ug/L m

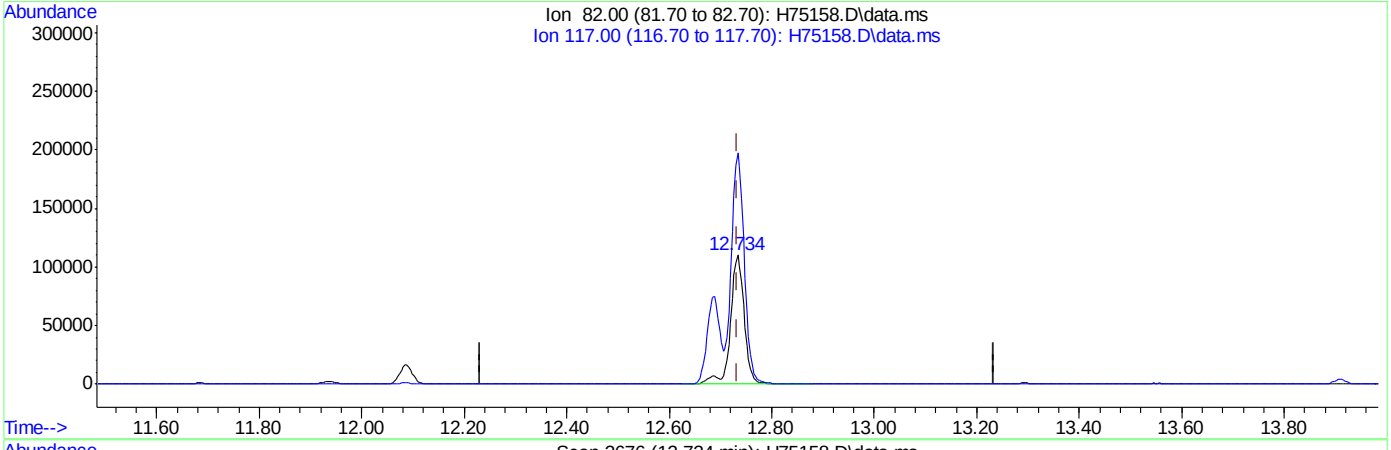
response 371300

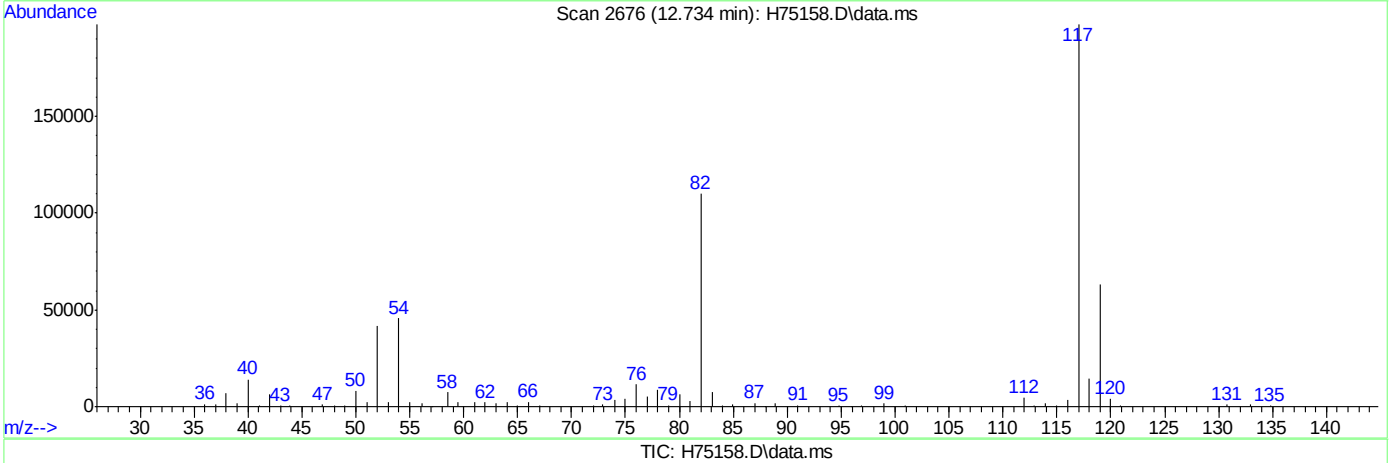
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:31:11 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration





TIC: H75158.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L

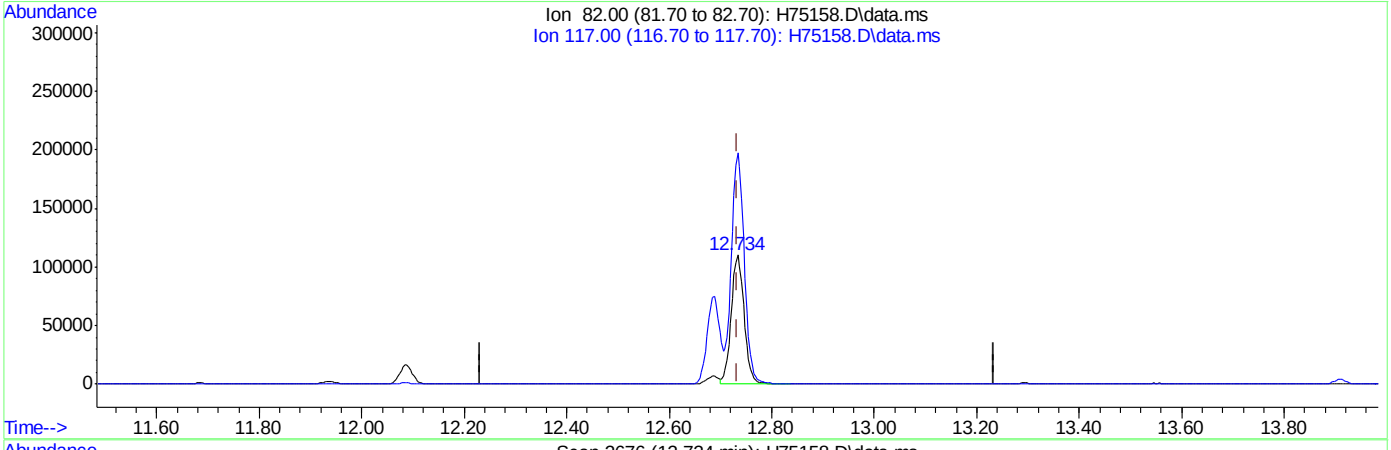
response 204192

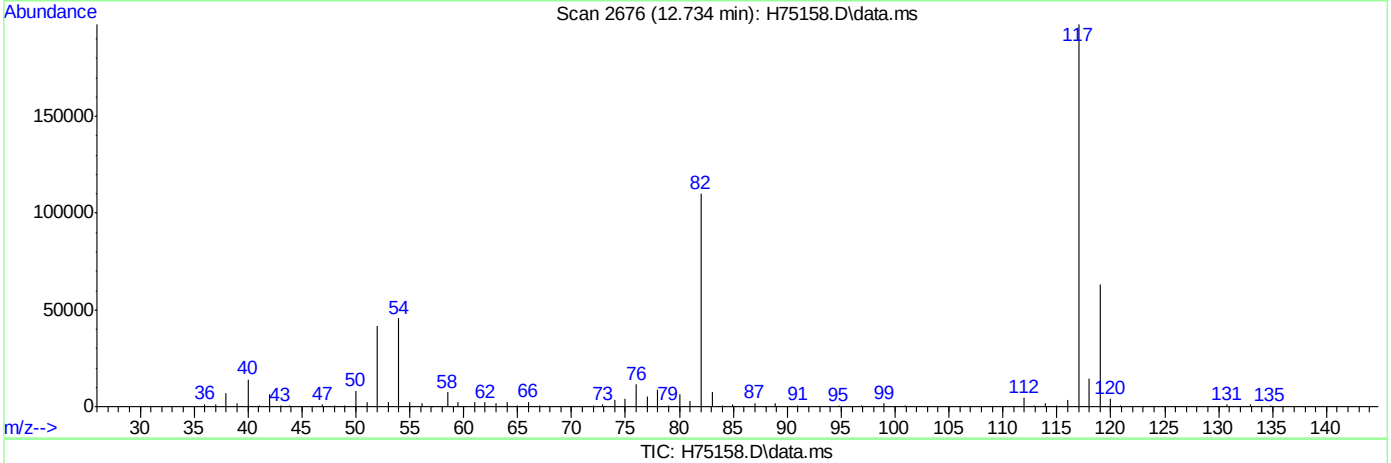
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	179.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75158.D
Acq On : 25 Sep 2015 6:29 pm
Operator : kaylap
Sample : ic2500-100
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 28 09:31:11 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:30:04 2015
Response via : Initial Calibration





TIC: H75158.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L m

response 192632

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	179.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.188	65	97497	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	231709	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	351657	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	202110m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	164052	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.252	113	112129	39.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 79.96%			
60) toluene-d8 (s)	11.277	98	422090	41.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 82.72%			
82) bromofluorobenzene (s)	13.962	95	177314	47.37	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.276	59	444860	2332.75	ug/L	89
3) Ethanol	5.098	45	604073m	28643.02	ug/L	
5) dichlorodifluoromethane	4.021	85	474406	181.94	ug/L	99
6) chloromethane	4.272	50	369845	145.92	ug/L	94
7) vinyl chloride	4.498	62	421527	177.09	ug/L	98
8) bromomethane	4.960	96	273259	172.94	ug/L	95
9) chloroethane	5.112	64	279583	189.62	ug/L	100
10) acetonitrile	5.599	41	5943	177.59	ug/L	78
11) trichlorofluoromethane	5.698	101	684268	195.54	ug/L	100
12) freon-113	6.463	101	447006	192.98	ug/L	93
13) acrolein	5.691	56	109301	1102.80	ug/L	92
14) 1,1-dichloroethene	6.273	96	396993	200.06	ug/L #	78
15) acetone	5.821	58	50192m	208.07	ug/L	
16) ethyl ether	5.931	59	392291	198.19	ug/L	87
17) methyl acetate	6.446	43	428240	185.19	ug/L	88
18) methylene chloride	6.453	84	469982	184.09	ug/L #	75
19) methyl tert butyl ether	7.197	73	1234223	200.87	ug/L	88
20) acrylonitrile	6.319	53	194199m	221.93	ug/L	
21) allyl chloride	6.513	41	778539m	185.50	ug/L	
22) trans-1,2-dichloroethene	7.106	96	429089	192.81	ug/L	84
23) iodomethane	6.365	142	699045	196.88	ug/L	89
24) carbon disulfide	6.696	76	1408977m	192.39	ug/L	
25) propionitrile	7.360	54	70826	248.69	ug/L	100
26) vinyl acetate	7.455	43	893420	208.58	ug/L	93
27) chloroprene	7.720	53	774152	202.58	ug/L	97
28) di-isopropyl ether	7.765	45	1590004	191.88	ug/L	90
29) methacrylonitrile	7.868	41	304027	192.28	ug/L	91
30) 2-butanone	7.758	72	60103	227.39	ug/L #	30
31) 1,1-dichloroethane	7.356	63	860375	187.47	ug/L	95
32) tert-butyl ethyl ether	8.161	59	1565907	209.01	ug/L	91
33) Hexane	7.741	41	771231	177.47	ug/L #	80
34) isobutyl alcohol	8.157	43	191524	788.61	ug/L	84
35) 2,2-dichloropropane	8.214	77	652594	194.38	ug/L	97
36) cis-1,2-dichloroethene	7.924	96	468478	191.06	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) ethyl acetate	8.157	43	191557	156.01 ug/L	98
38) bromochloromethane	8.090	128	225725	187.89 ug/L #	56
39) chloroform	8.129	83	821310	186.01 ug/L	97
41) 1,1,1-trichloroethane	8.877	97	693639	200.55 ug/L	95
43) cyclohexane	9.163	56	845593	203.88 ug/L #	80
44) carbon tetrachloride	9.241	117	612543	231.04 ug/L	96
45) 1,1-dichloropropene	9.053	75	622074	207.21 ug/L	94
46) benzene	9.272	78	1794888	200.92 ug/L	99
47) tetrahydrofuran	8.454	42	144382	191.91 ug/L	94
48) 1,2-dichloroethane	8.775	62	634820	188.09 ug/L	100
49) tert-amyl methyl ether	9.403	73	1288918	218.20 ug/L	93
50) heptane	9.763	43	624524	196.26 ug/L	93
51) trichloroethene	9.897	95	485415	209.83 ug/L	83
52) 1,2-dichloropropane	9.862	63	495241	200.00 ug/L	95
53) dibromomethane	9.833	93	302152	204.69 ug/L	97
54) bromodichloromethane	9.950	83	625428	214.69 ug/L	96
55) methylcyclohexane	10.416	83	783086	208.67 ug/L	87
56) 2-chloroethyl vinyl ether	10.327	63	332098	212.91 ug/L	89
57) methyl methacrylate	10.052	69	336241	225.70 ug/L	90
58) 1,4-dioxane	10.056	88	23991	1373.27 ug/L	88
59) cis-1,3-dichloropropene	10.571	75	742280	231.13 ug/L	91
61) 4-methyl-2-pentanone	10.663	43	496857	197.96 ug/L	95
62) toluene	11.347	92	1112500	205.04 ug/L	99
63) trans-1,3-dichloropropene	10.994	75	714829	252.70 ug/L	99
64) 1,1,2-trichloroethane	11.164	83	362121	199.83 ug/L	92
65) ethyl methacrylate	11.375	69	652290	230.61 ug/L	85
67) tetrachloroethene	12.088	166	526755	225.65 ug/L	91
68) 1,3-dichloropropane	11.397	76	712770	197.12 ug/L	97
69) dibromochloromethane	11.686	129	470085	259.53 ug/L	100
70) 1,2-dibromoethane	11.937	107	443370	213.15 ug/L	93
71) 2-hexanone	11.524	43	350635	205.73 ug/L	98
72) chlorobenzene	12.769	112	1284333	201.94 ug/L	91
73) 1,1,1,2-tetrachloroethane	12.688	131	427748	224.53 ug/L	96
74) ethylbenzene	12.946	91	2218323	220.96 ug/L	98
75) m,p-xylene	13.133	106	1767021	472.85 ug/L	98
76) o-xylene	13.546	106	869908	225.91 ug/L	98
77) styrene	13.472	104	1418704	221.38 ug/L	98
78) bromoform	13.292	173	314649	286.50 ug/L	98
79) trans-1,4-dichloro-2-b...	13.697	53	162123	268.59 ug/L	87
81) isopropylbenzene	13.909	105	2109257	234.06 ug/L	99
83) bromobenzene	14.191	156	570805	230.66 ug/L	89
84) 1,1,2,2-tetrachloroethane	13.549	83	505726	224.40 ug/L	97
85) 1,2,3-trichloropropane	13.697	75	591215	241.17 ug/L	97
86) n-propylbenzene	14.354	91	2486858	234.57 ug/L	95
87) 2-chlorotoluene	14.470	91	1411613	219.23 ug/L	91
88) 4-chlorotoluene	14.548	91	1519060	225.16 ug/L	92
89) 1,3,5-trimethylbenzene	14.636	105	1657334	231.37 ug/L	99
90) tert-butylbenzene	14.936	91	947994	214.26 ug/L	89
91) 1,2,4-trimethylbenzene	15.045	105	1626939	224.15 ug/L	100
92) sec-butylbenzene	15.162	105	1981143	208.27 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.261	146	919167	209.82	ug/L	99
94) p-isopropyltoluene	15.338	119	1676084	207.36	ug/L	98
95) 1,4-dichlorobenzene	15.328	146	973561	199.45	ug/L	100
96) 1,2-dichlorobenzene	15.695	146	753108	182.48	ug/L	99
97) n-butylbenzene	15.755	91	1415167	193.92	ug/L	93
98) 1,2-dibromo-3-chloropr...	16.175	75	37557	156.73	ug/L	91
99) 1,3,5-trichlorobenzene	16.993	180	378596	145.39	ug/L #	95
100) 1,2,4-trichlorobenzene	17.547	180	183169	131.01	ug/L	98
101) hexachlorobutadiene	17.851	225	105868	102.96	ug/L	96
102) naphthalene	17.823	128	253734	117.91	ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	183169	131.01	ug/L	99
104) 2-Methylnaphthalene	19.294	142	5813	97.57	ug/L	95
105) 1-Methylnaphthalene	19.545	142	4200	104.60	ug/L #	8

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

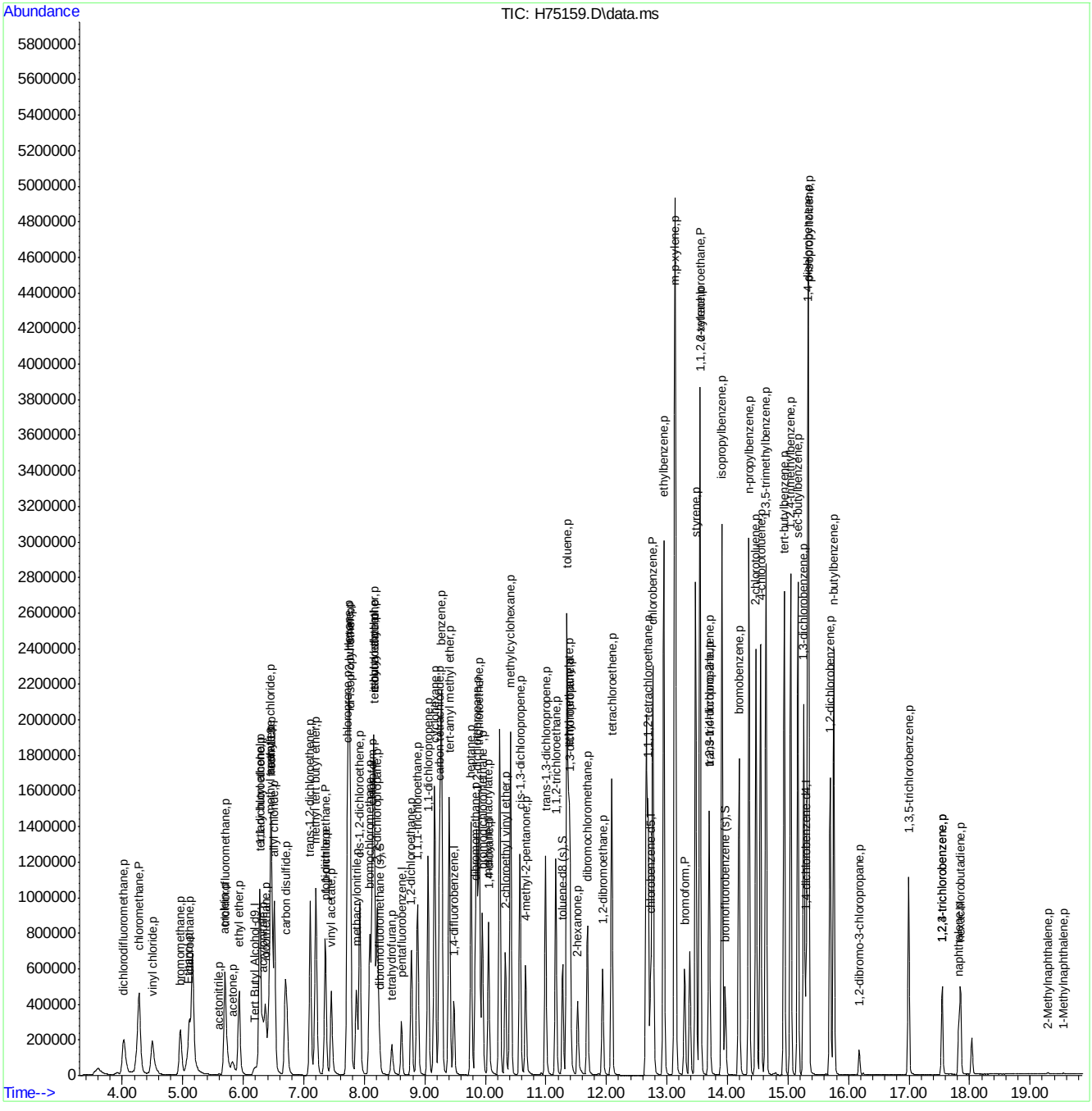
7.6.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:34:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration

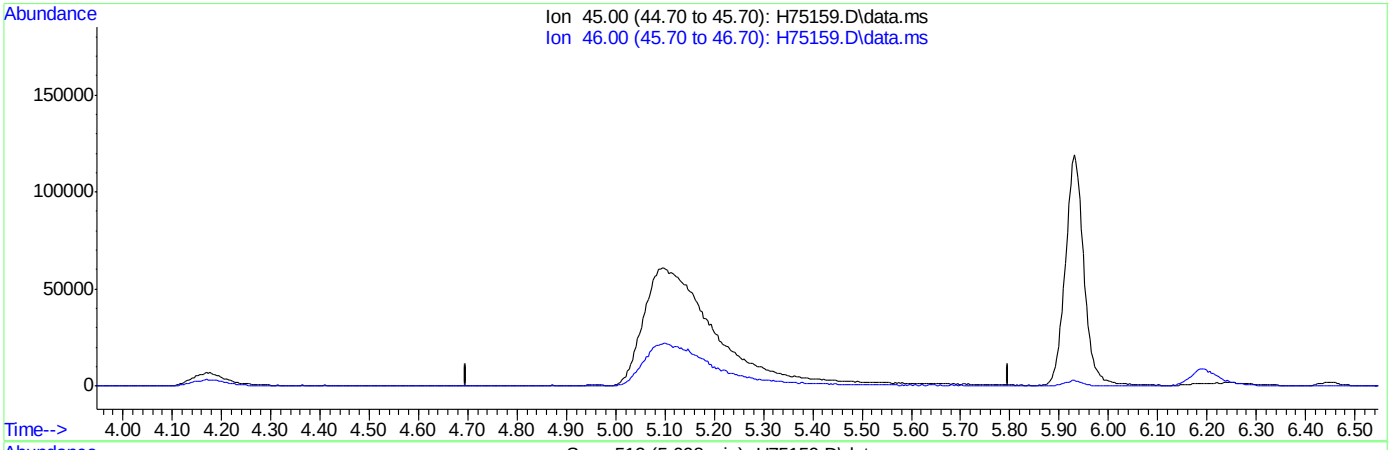


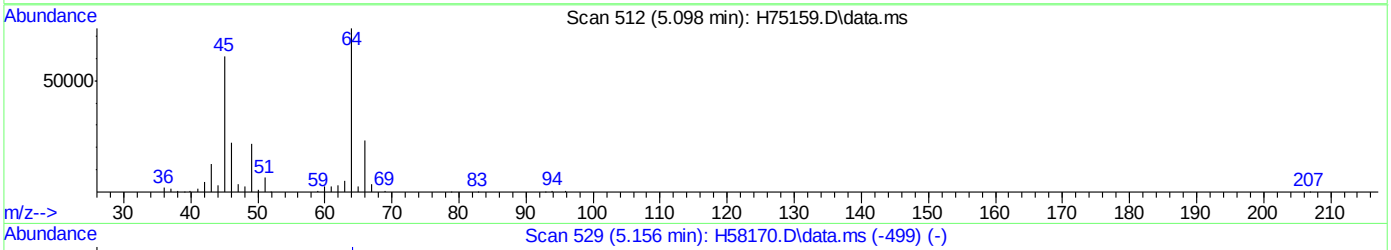
ACCUTEST LABORATORIES MC41757

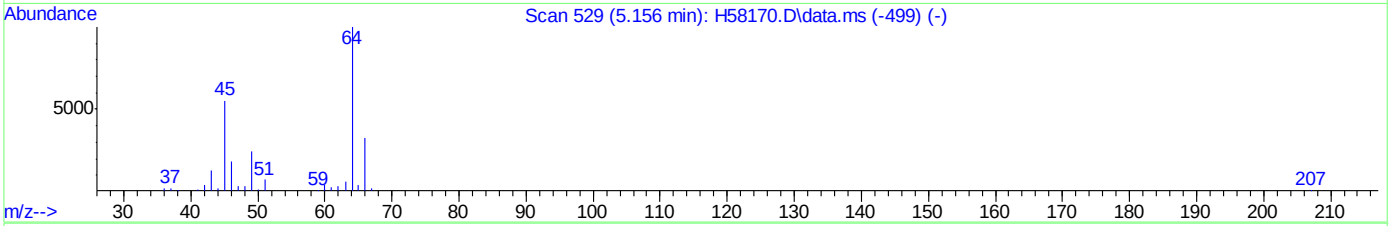
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(3) Ethanol (p)

5.097min (-5.097) 0.00ug/L

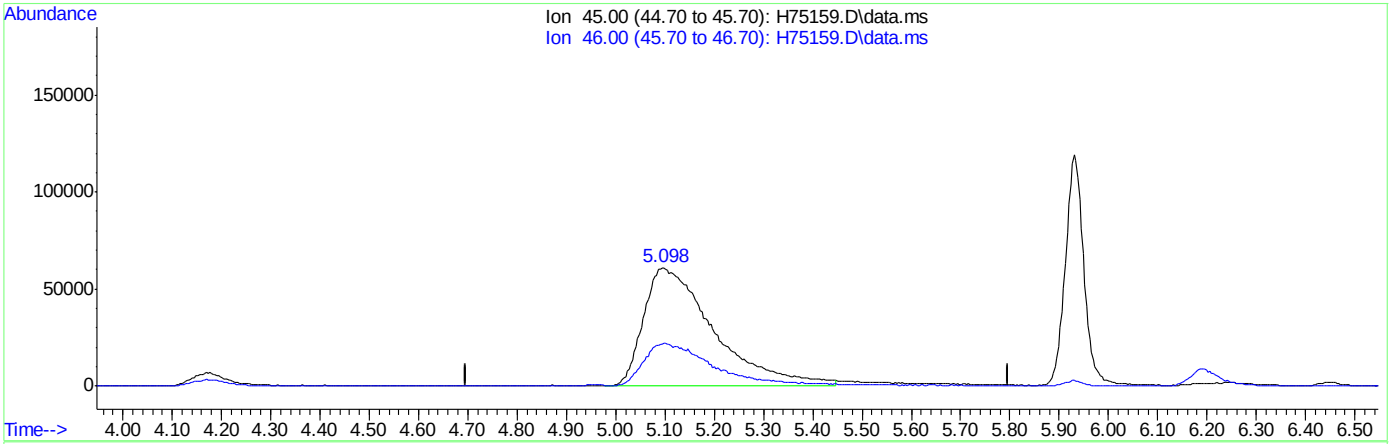
response 0

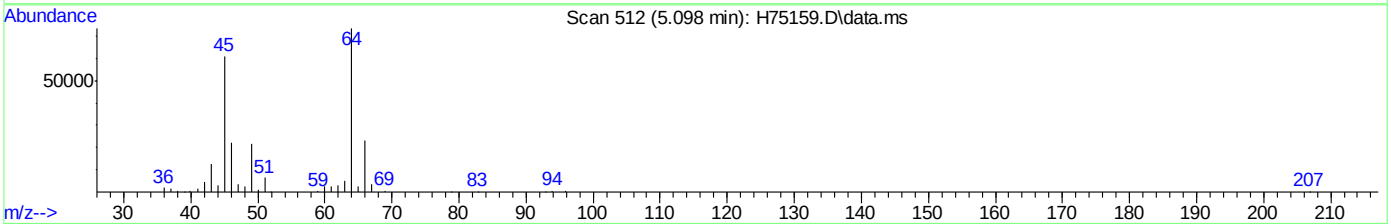
Ion	Exp%	Act%
45.00	100	0.00
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

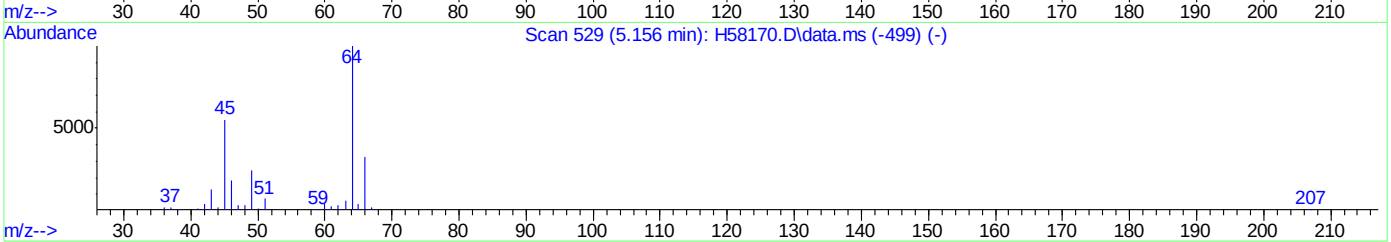
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(3) Ethanol (p)

5.098min (+0.000) 28643.02ug/L m

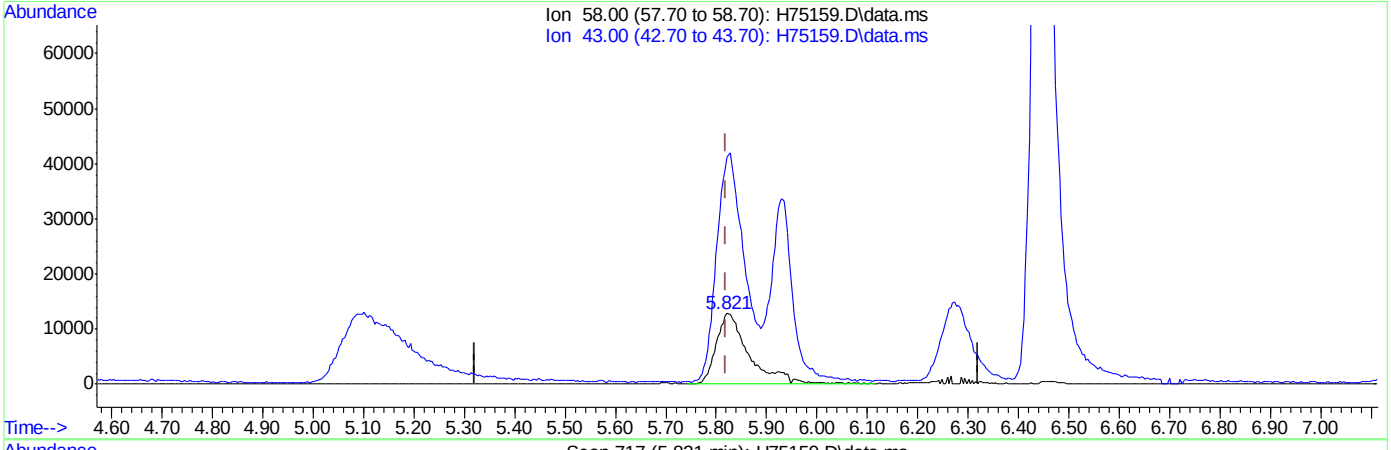
response 604073

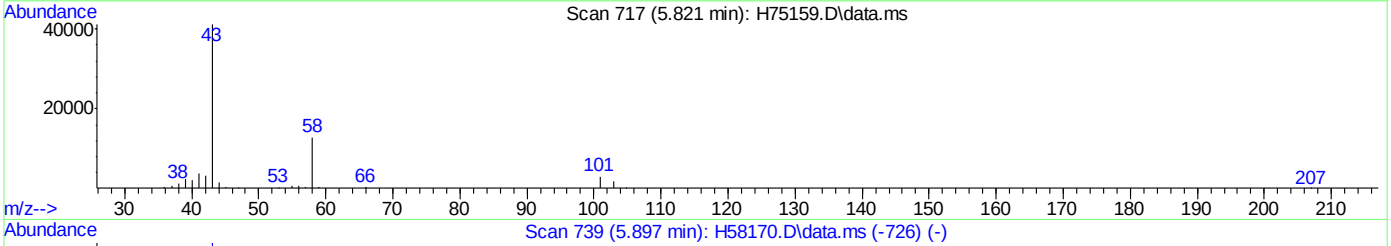
Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

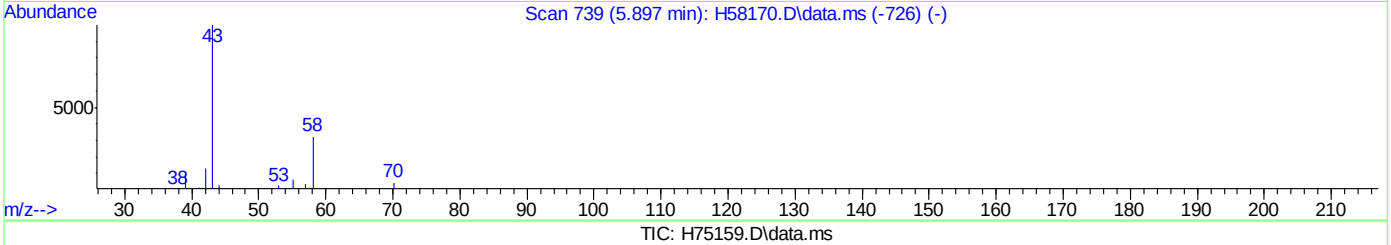
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(15) acetone (p)

5.821min (+0.000) 244.20ug/L

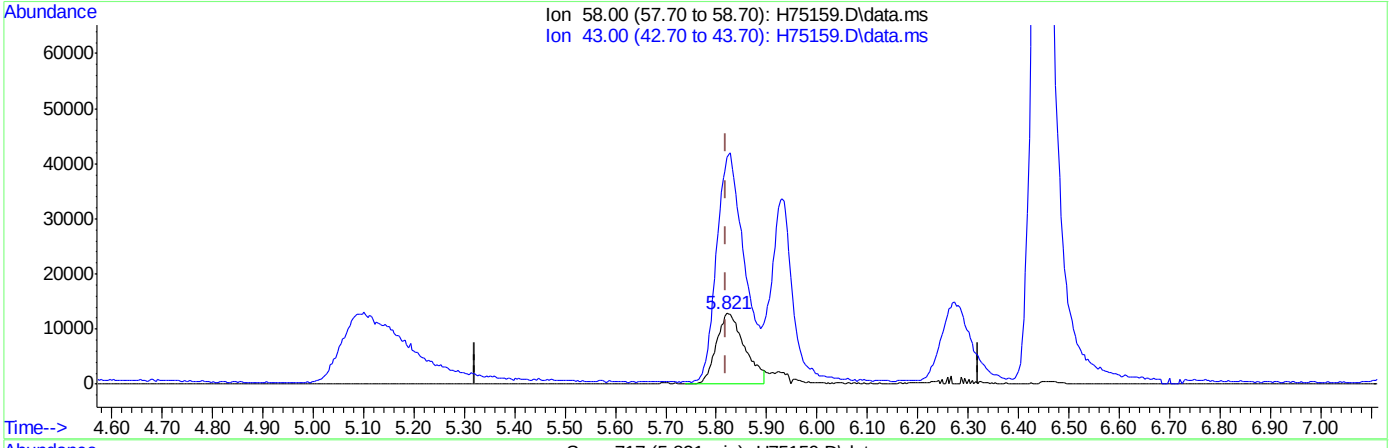
response 58908

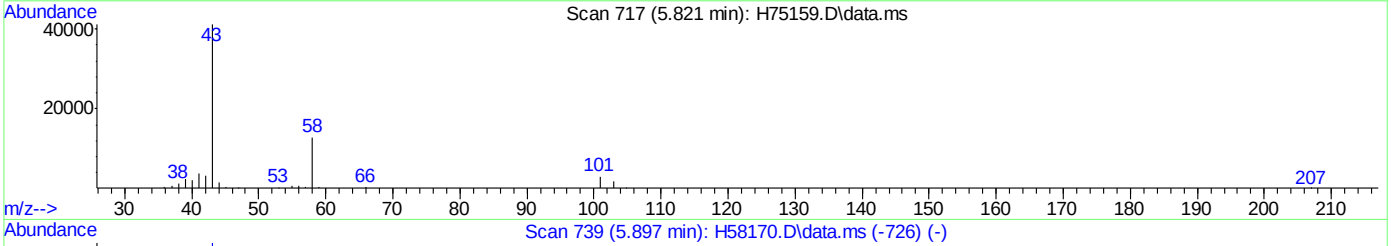
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	316.51
0.00	0.00	0.00
0.00	0.00	0.00

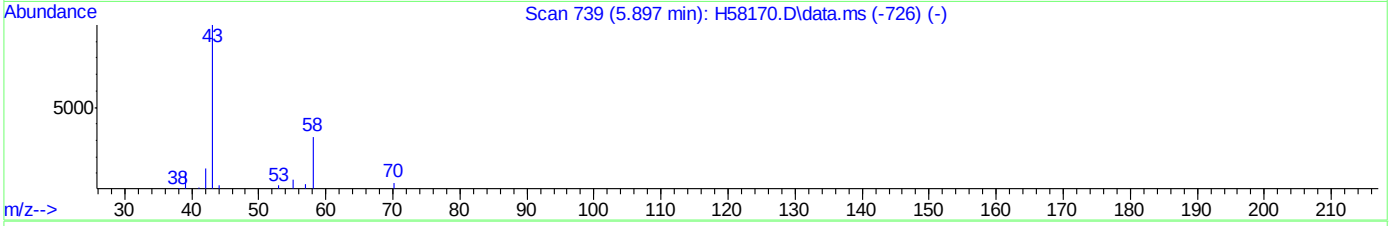
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(15) acetone (p)

5.821min (+0.000) 208.07ug/L m

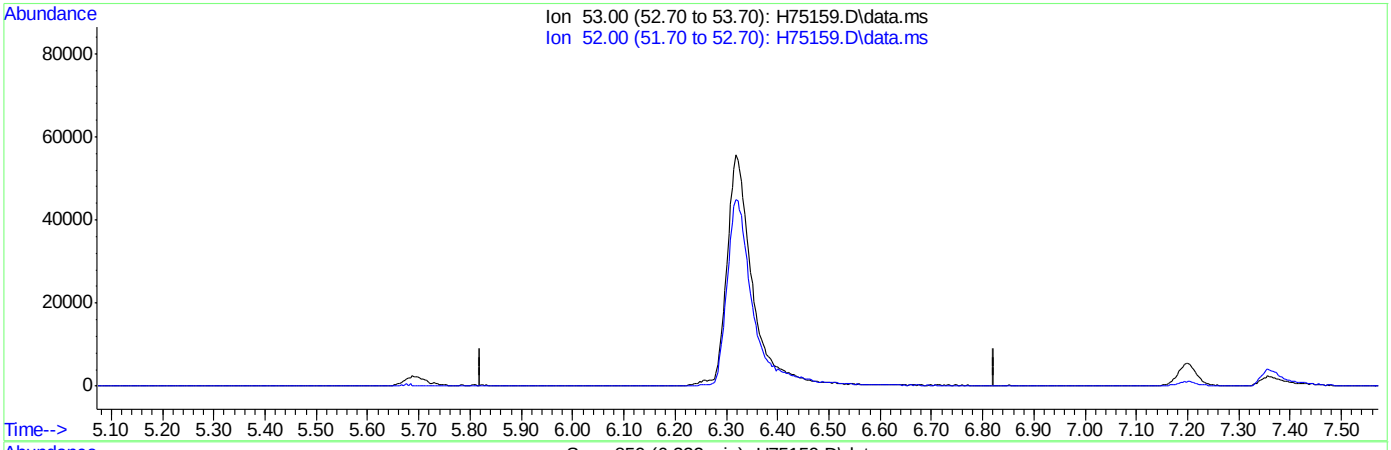
response 50192

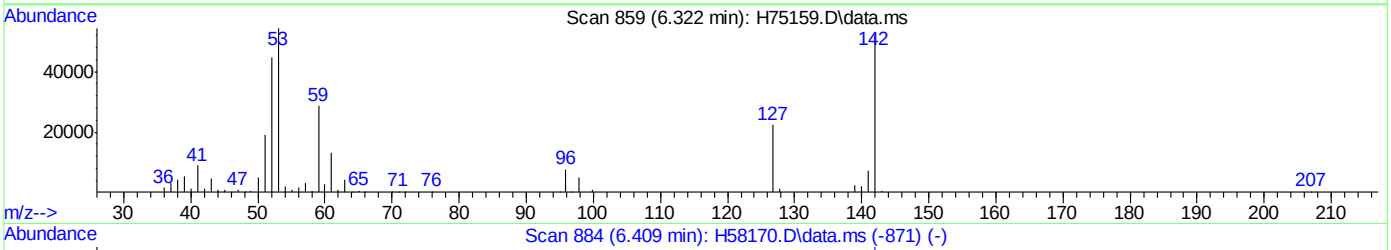
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.60
0.00	0.00	0.00
0.00	0.00	0.00

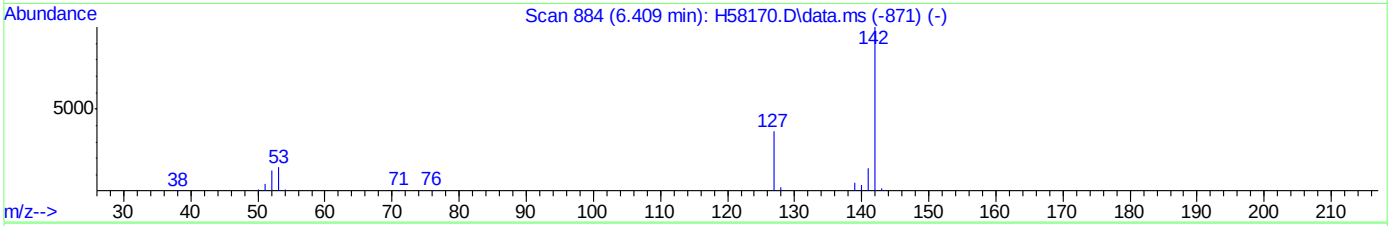
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(20) acrylonitrile (p)

6.322min (-6.322) 0.00ug/L

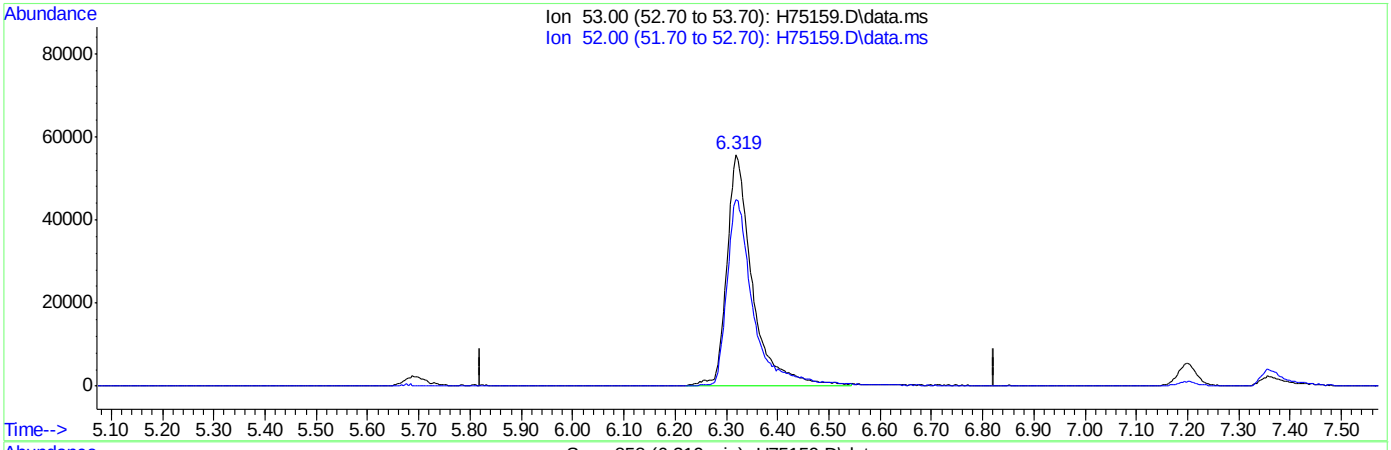
response 0

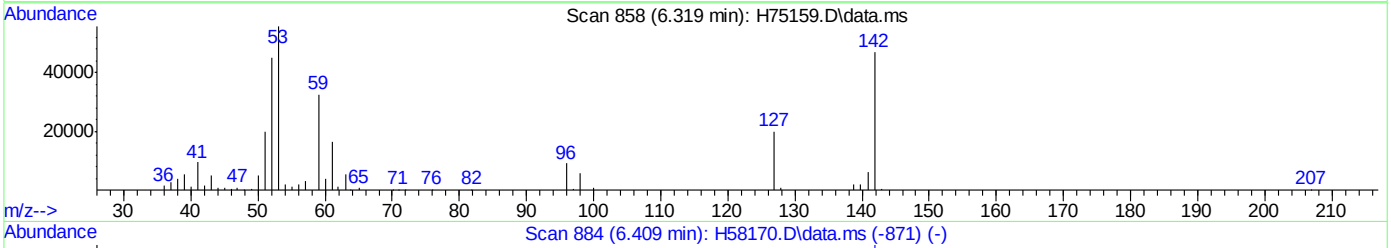
Ion	Exp%	Act%
53.00	100	0.00
52.00	84.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

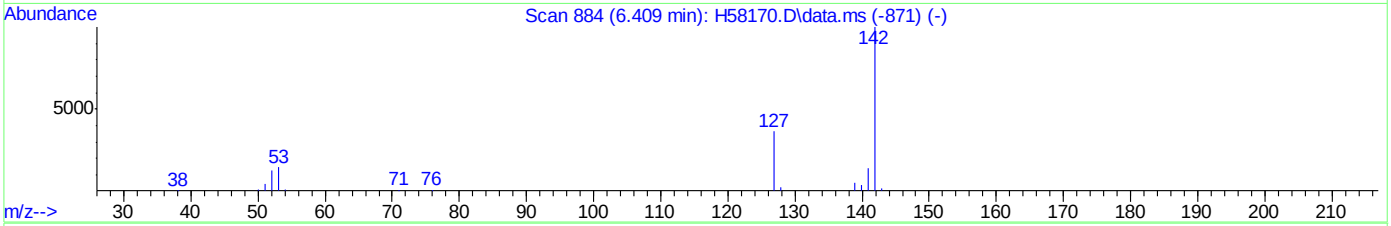
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(20) acrylonitrile (p)

6.319min (-0.003) 221.93ug/L m

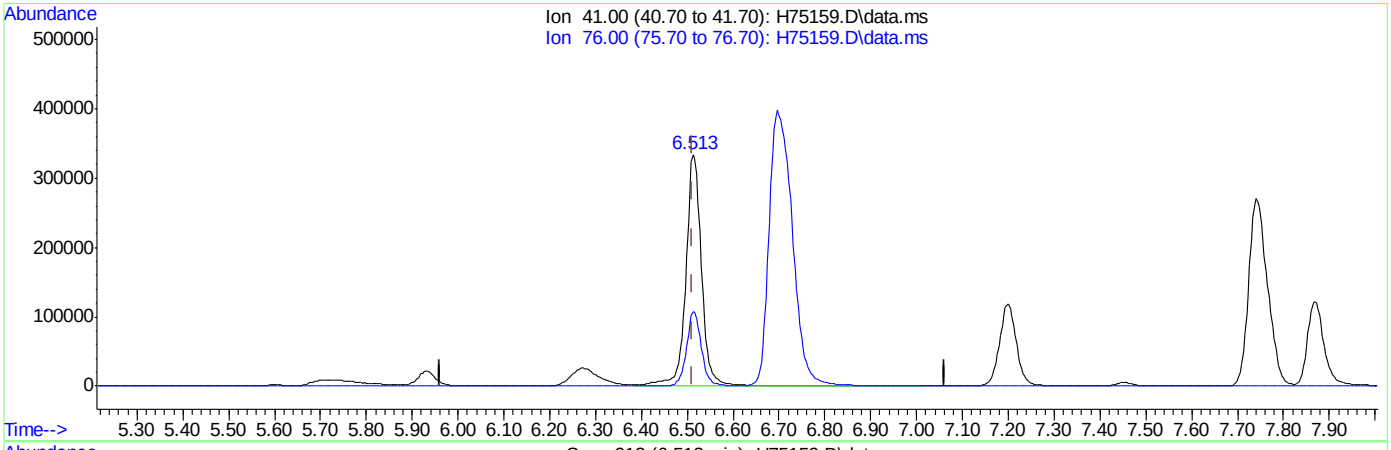
response 194199

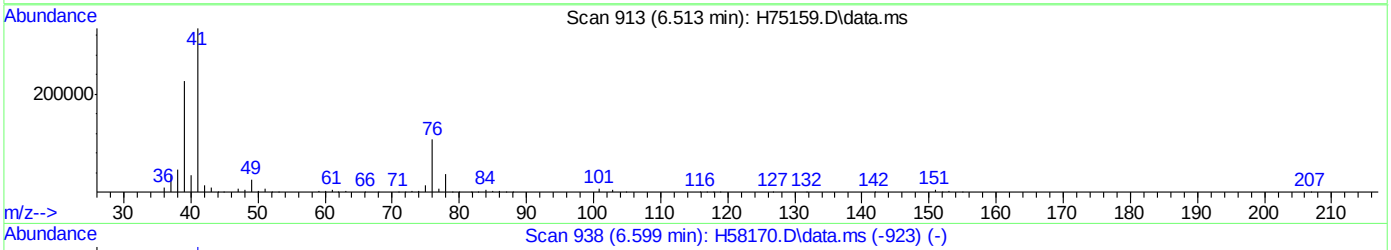
Ion	Exp%	Act%
53.00	100	100
52.00	84.80	80.67
0.00	0.00	0.00
0.00	0.00	0.00

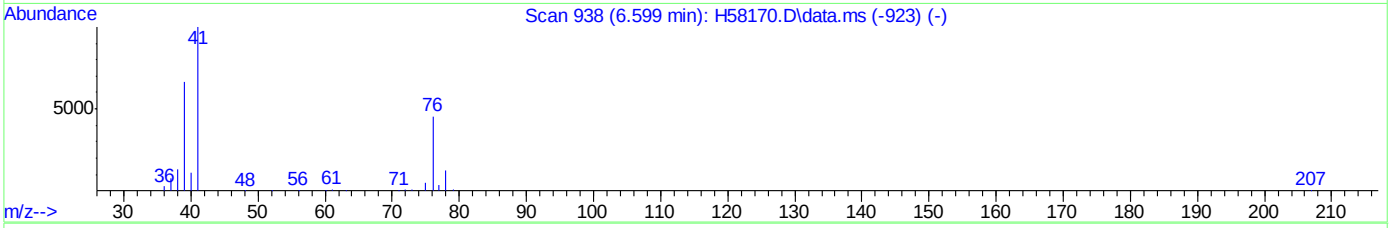
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(21) allyl chloride (p)

6.513min (+0.000) 189.80ug/L

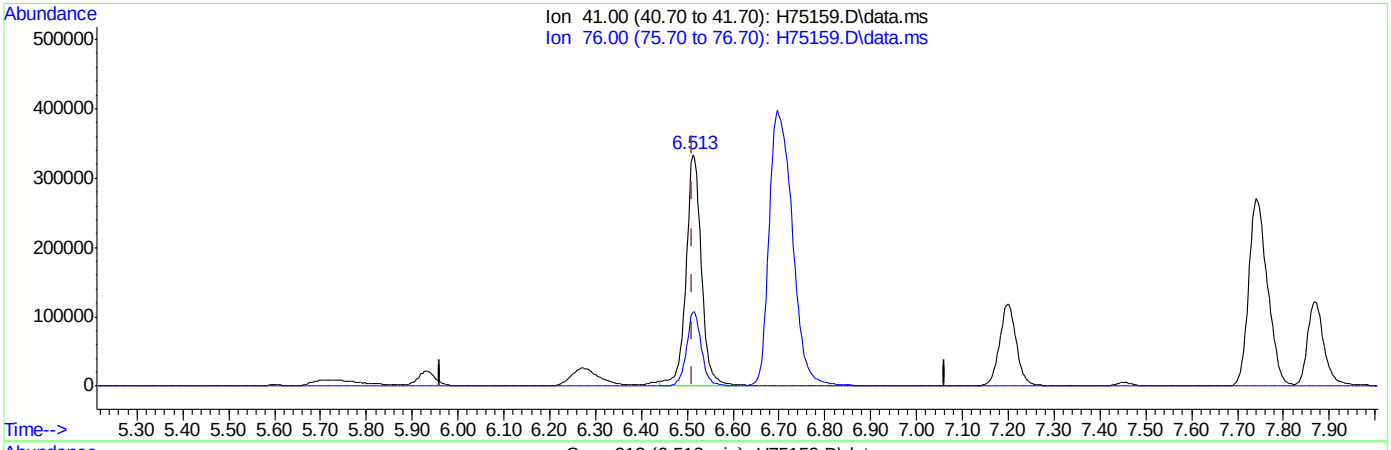
response 796568

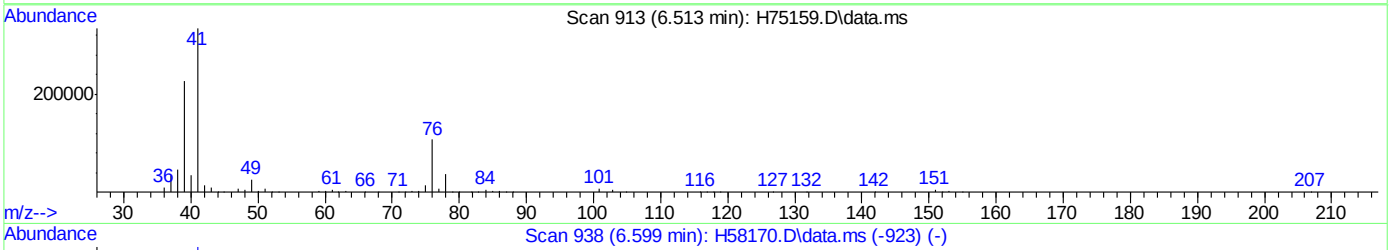
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	32.15
0.00	0.00	0.00
0.00	0.00	0.00

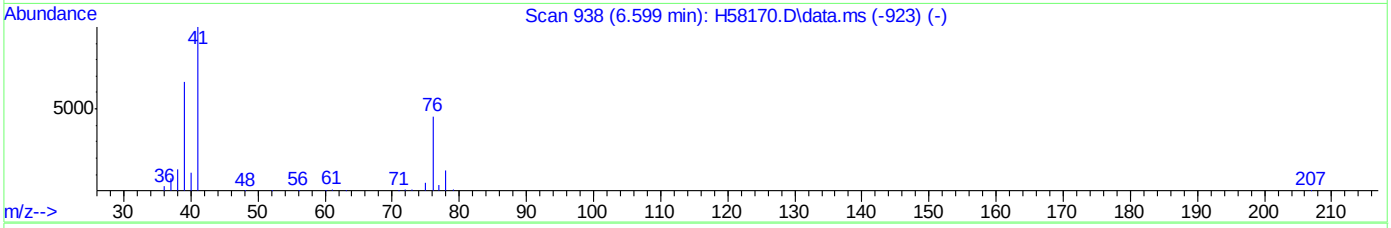
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(21) allyl chloride (p)

6.513min (+0.000) 185.50ug/L m

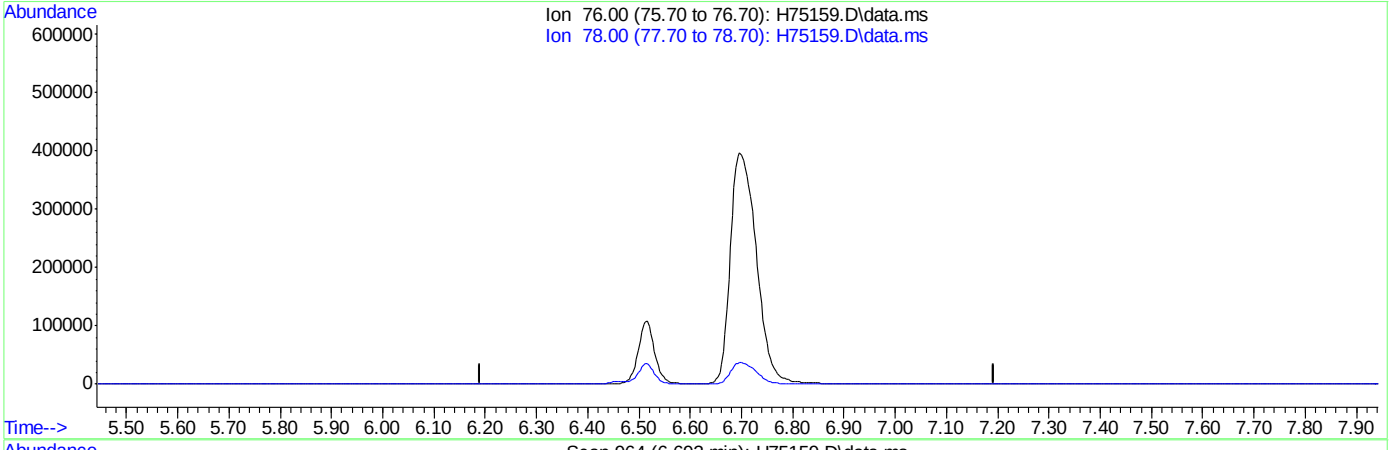
response 778539

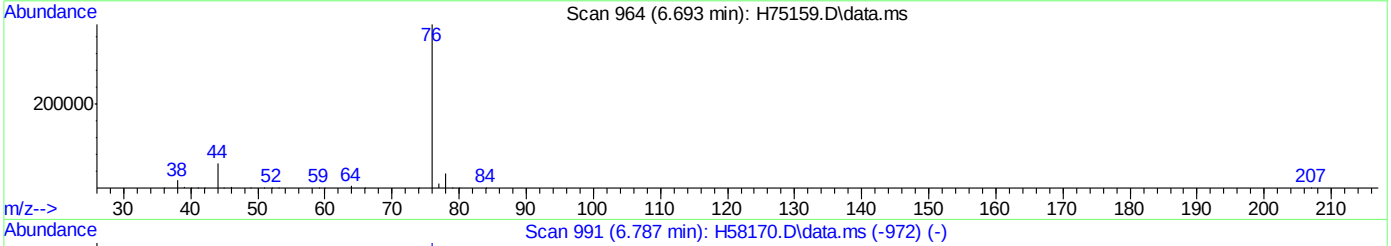
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	32.14
0.00	0.00	0.00
0.00	0.00	0.00

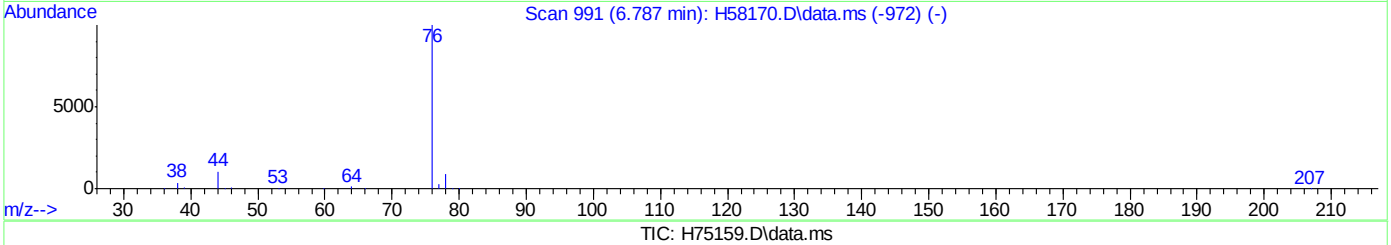
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(24) carbon disulfide (p)

6.692min (-6.692) 0.00ug/L

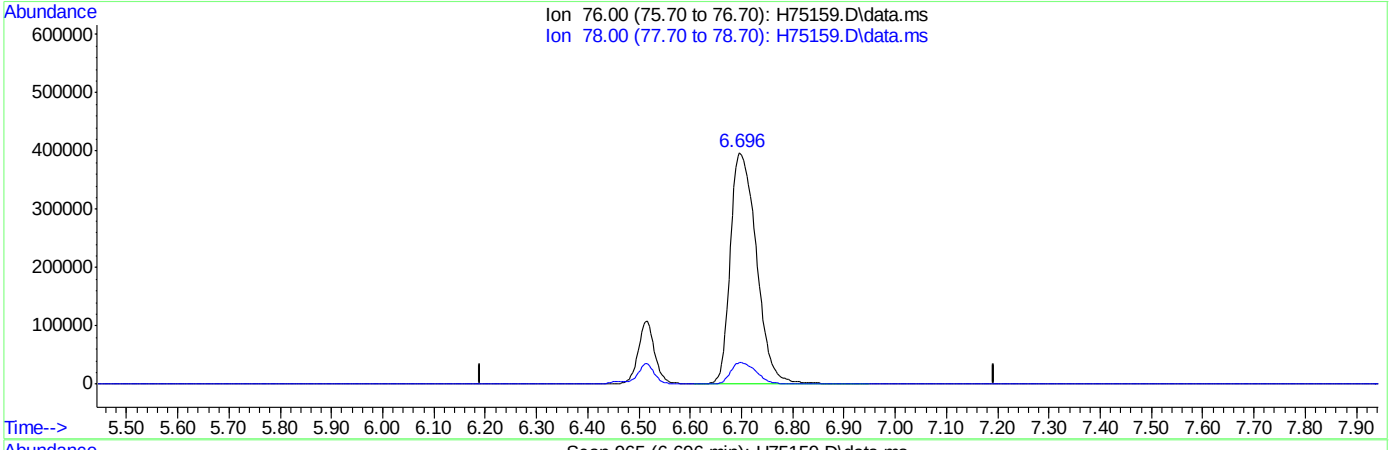
response 0

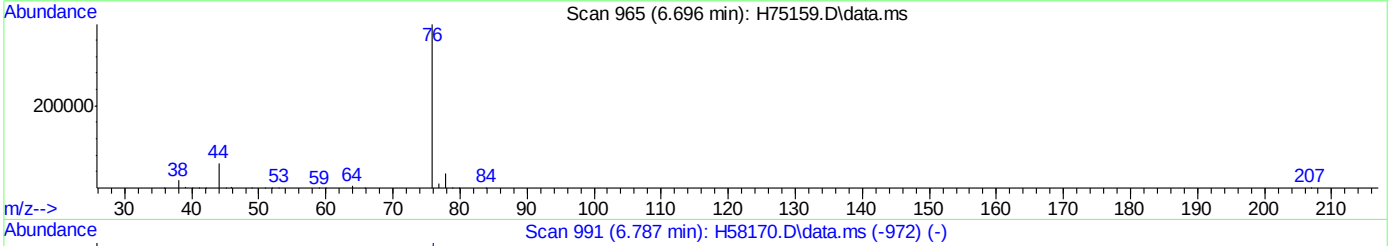
Ion	Exp%	Act%
76.00	100	0.00
78.00	10.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

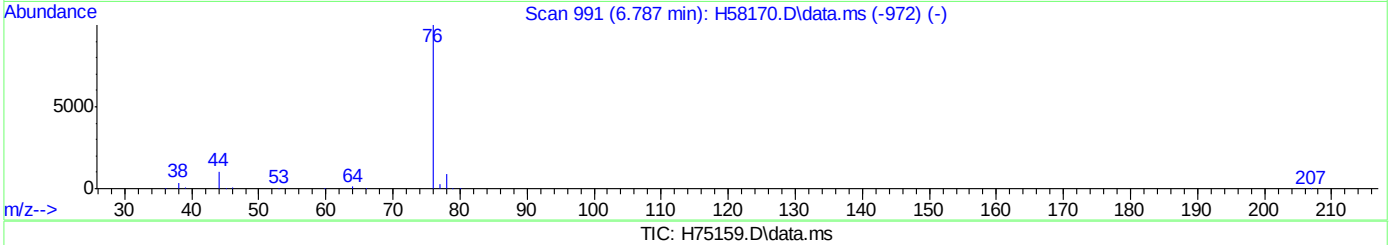
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(24) carbon disulfide (p)

6.696min (+0.004) 192.39ug/L m

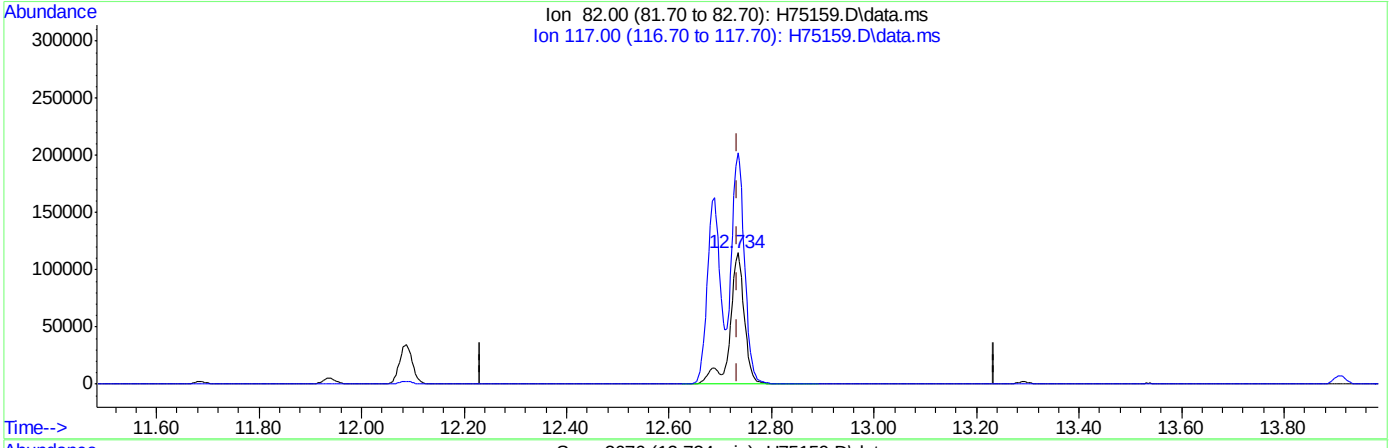
response 1408977

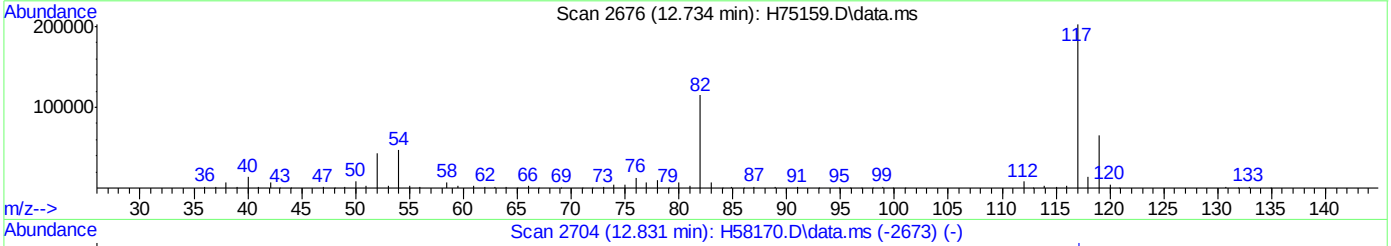
Ion	Exp%	Act%
76.00	100	100
78.00	10.10	9.21
0.00	0.00	0.00
0.00	0.00	0.00

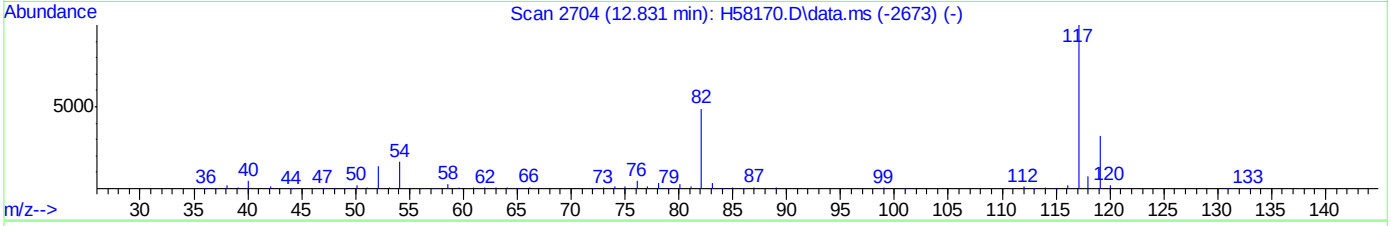
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L

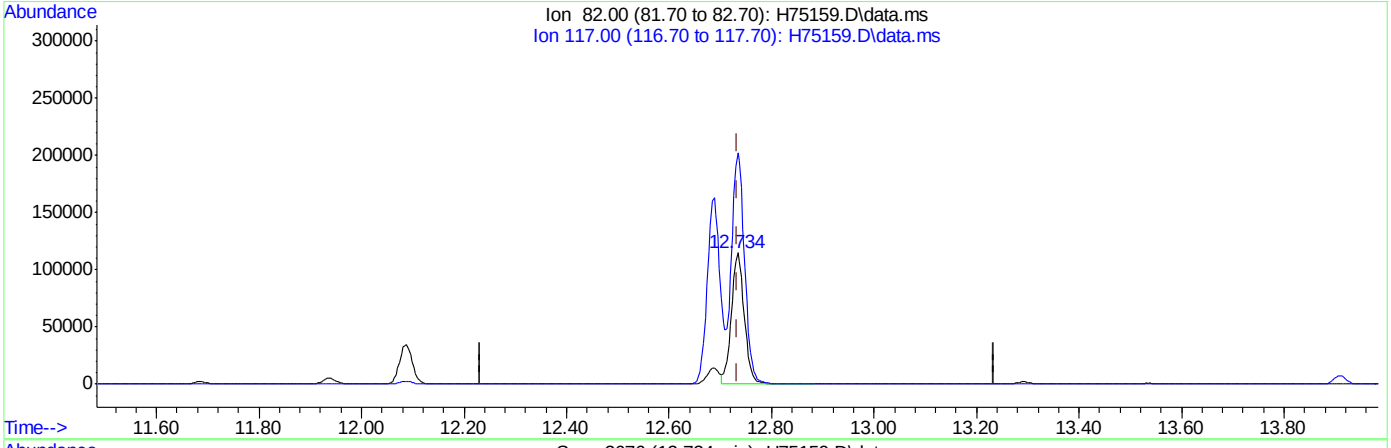
response 226696

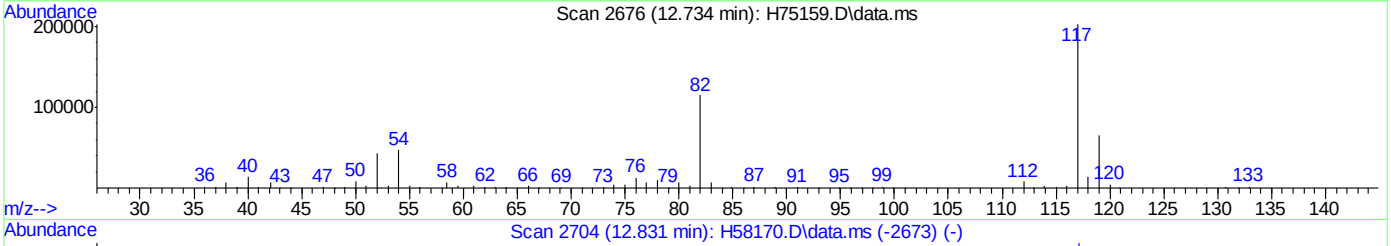
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	176.45
0.00	0.00	0.00
0.00	0.00	0.00

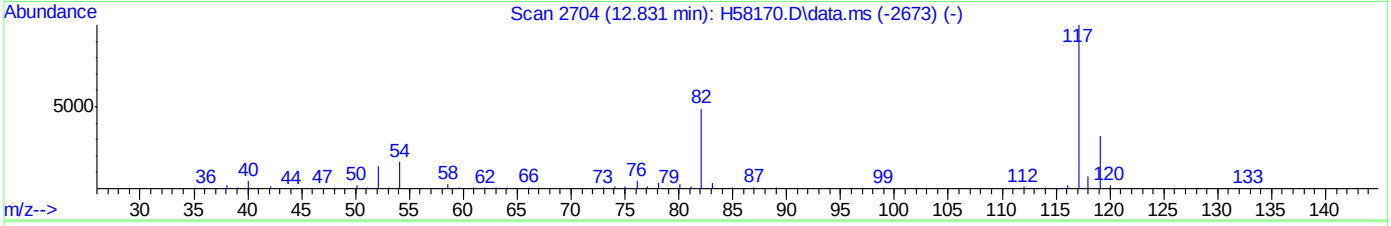
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75159.D
Acq On : 25 Sep 2015 6:56 pm
Operator : kaylap
Sample : ic2500-200
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 28 09:32:58 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:32:43 2015
Response via : Initial Calibration







TIC: H75159.D\data.ms

(66) chlorobenzene-d5 (I)

12.734min (+0.000) 50.00ug/L m

response 202110

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	176.45
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.197	65	105740	500.00	ug/L	0.00
4) pentafluorobenzene	8.614	168	244038	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	373811	50.00	ug/L	0.00
66) chlorobenzene-d5	12.736	82	210669m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.301	152	167500	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.247	113	119768	41.47	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 82.94%			
60) toluene-d8 (s)	11.275	98	444665	41.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.60%			
82) bromofluorobenzene (s)	13.964	95	188820	49.70	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.40%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.271	59	1008842	4764.52	ug/L	88
3) Ethanol	5.096	45	1374702	56607.42	ug/L	98
5) dichlorodifluoromethane	4.020	85	1058539	390.49	ug/L	98
6) chloromethane	4.267	50	721033	280.96	ug/L	96
7) vinyl chloride	4.493	62	823827	333.40	ug/L	99
8) bromomethane	4.962	96	591523	362.45	ug/L	97
9) chloroethane	5.110	64	656822	426.13	ug/L	98
10) acetonitrile	5.594	41	9439	275.53	ug/L	91
11) trichlorofluoromethane	5.696	101	1569248	426.98	ug/L	99
12) freon-113	6.458	101	953789	393.27	ug/L	95
13) acrolein	5.685	56	258426	2433.97	ug/L	92
14) 1,1-dichloroethene	6.268	96	857729	410.38	ug/L #	78
15) acetone	5.819	58	112785m	440.96	ug/L	
16) ethyl ether	5.929	59	862611	414.41	ug/L	86
17) methyl acetate	6.444	43	901180	374.65	ug/L	91
18) methylene chloride	6.451	84	1041023	391.61	ug/L	80
19) methyl tert butyl ether	7.196	73	2738205	422.91	ug/L	88
20) acrylonitrile	6.317	53	431247m	459.53	ug/L	
21) allyl chloride	6.511	41	1637000m	374.87	ug/L	
22) trans-1,2-dichloroethene	7.104	96	939768	402.76	ug/L	87
23) iodomethane	6.363	142	1557286	417.53	ug/L	89
24) carbon disulfide	6.712	76	3059617m	399.21	ug/L	
25) propionitrile	7.351	54	156890	498.77	ug/L	100
26) vinyl acetate	7.450	43	1966634	432.84	ug/L	94
27) chloroprene	7.718	53	1618934	401.37	ug/L	93
28) di-isopropyl ether	7.764	45	3234386	372.76	ug/L	91
29) methacrylonitrile	7.866	41	658271	397.84	ug/L	92
30) 2-butanone	7.757	72	130194	455.22	ug/L #	53
31) 1,1-dichloroethane	7.354	63	1851787	386.14	ug/L	95
32) tert-butyl ethyl ether	8.159	59	3368213	424.13	ug/L	93
33) Hexane	7.739	41	1513991	337.11	ug/L #	75
34) isobutyl alcohol	8.159	43	392317	1589.79	ug/L	83
35) 2,2-dichloropropane	8.212	77	1398181	397.29	ug/L	97
36) cis-1,2-dichloroethene	7.923	96	1025548	399.35	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) ethyl acetate	8.159	43	392903	315.39	ug/L		97
38) bromochloromethane	8.088	128	501472	400.37	ug/L	#	61
39) chloroform	8.127	83	1777479	385.59	ug/L		97
41) 1,1,1-trichloroethane	8.879	97	1495062	410.28	ug/L		93
43) cyclohexane	9.161	56	1788992	404.47	ug/L	#	81
44) carbon tetrachloride	9.242	117	1350424	470.04	ug/L		95
45) 1,1-dichloropropene	9.052	75	1339853	417.33	ug/L		94
46) benzene	9.274	78	3814867	401.52	ug/L		99
47) tetrahydrofuran	8.452	42	309961	390.21	ug/L		94
48) 1,2-dichloroethane	8.777	62	1369484	384.58	ug/L		98
49) tert-amyl methyl ether	9.401	73	2863425	450.16	ug/L		95
50) heptane	9.761	43	1274934	378.09	ug/L		94
51) trichloroethene	9.899	95	1061396	429.28	ug/L		84
52) 1,2-dichloropropane	9.863	63	1077466	409.34	ug/L		96
53) dibromomethane	9.835	93	662007	420.66	ug/L		98
54) bromodichloromethane	9.948	83	1377653	440.26	ug/L		96
55) methylcyclohexane	10.414	83	1683526	419.00	ug/L		90
56) 2-chloroethyl vinyl ether	10.329	63	755093	450.56	ug/L		89
57) methyl methacrylate	10.050	69	744709	460.39	ug/L		87
58) 1,4-dioxane	10.047	88	52420	2626.65	ug/L		80
59) cis-1,3-dichloropropene	10.569	75	1647082	474.27	ug/L		92
61) 4-methyl-2-pentanone	10.664	43	1111557	417.34	ug/L		96
62) toluene	11.349	92	2386041	412.40	ug/L		98
63) trans-1,3-dichloropropene	10.993	75	1566562	506.16	ug/L		98
64) 1,1,2-trichloroethane	11.162	83	792234	411.32	ug/L		91
65) ethyl methacrylate	11.374	69	1457227	472.60	ug/L		78
67) tetrachloroethene	12.087	166	1162686	471.12	ug/L		93
68) 1,3-dichloropropane	11.398	76	1538584	409.20	ug/L		98
69) dibromochloromethane	11.684	129	1063323	545.17	ug/L		100
70) 1,2-dibromoethane	11.935	107	981571	448.51	ug/L		94
71) 2-hexanone	11.522	43	801935	448.83	ug/L		99
72) chlorobenzene	12.768	112	2828925	426.22	ug/L		92
73) 1,1,1,2-tetrachloroethane	12.686	131	994622	493.32	ug/L		96
74) ethylbenzene	12.948	91	4687100	442.11	ug/L		100
75) m,p-xylene	13.135	106	3579882	900.82	ug/L		95
76) o-xylene	13.547	106	1858045	456.34	ug/L		97
77) styrene	13.473	104	3129279	460.27	ug/L		98
78) bromoform	13.293	173	760238	630.03	ug/L		99
79) trans-1,4-dichloro-2-b...	13.699	53	352997	530.71	ug/L	#	80
81) isopropylbenzene	13.911	105	4520487	477.74	ug/L		97
83) bromobenzene	14.190	156	1307626	504.63	ug/L		90
84) 1,1,2,2-tetrachloroethane	13.551	83	1089301	467.07	ug/L		96
85) 1,2,3-trichloropropane	13.696	75	1326186	512.27	ug/L		97
86) n-propylbenzene	14.356	91	5391800	484.16	ug/L		99
87) 2-chlorotoluene	14.472	91	3178354	475.83	ug/L		93
88) 4-chlorotoluene	14.546	91	3331445	473.70	ug/L		93
89) 1,3,5-trimethylbenzene	14.634	105	3646399	488.99	ug/L		97
90) tert-butylbenzene	14.938	91	2070124	452.86	ug/L		91
91) 1,2,4-trimethylbenzene	15.044	105	3527954	468.98	ug/L		98
92) sec-butylbenzene	15.164	105	4264740	436.10	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.262	146	1973334	438.50	ug/L	99
94) p-isopropyltoluene	15.337	119	3390535	408.33	ug/L	98
95) 1,4-dichlorobenzene	15.330	146	1919843	385.34	ug/L	99
96) 1,2-dichlorobenzene	15.697	146	1534661	368.23	ug/L	99
97) n-butylbenzene	15.757	91	2879298	388.40	ug/L	95
98) 1,2-dibromo-3-chloropr...	16.176	75	62160	263.56	ug/L	94
99) 1,3,5-trichlorobenzene	16.992	180	628448	247.64	ug/L #	94
100) 1,2,4-trichlorobenzene	17.546	180	238985	177.62	ug/L	98
101) hexachlorobutadiene	17.849	225	187587	194.40	ug/L	99
102) naphthalene	17.821	128	304639	148.83	ug/L	100
103) 1,2,3-trichlorobenzene	17.546	180	238985	177.62	ug/L	100
104) 2-Methylnaphthalene	19.285	142	11972	198.42	ug/L	93
105) 1-Methylnaphthalene	19.539	142	8965	215.37	ug/L #	7

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

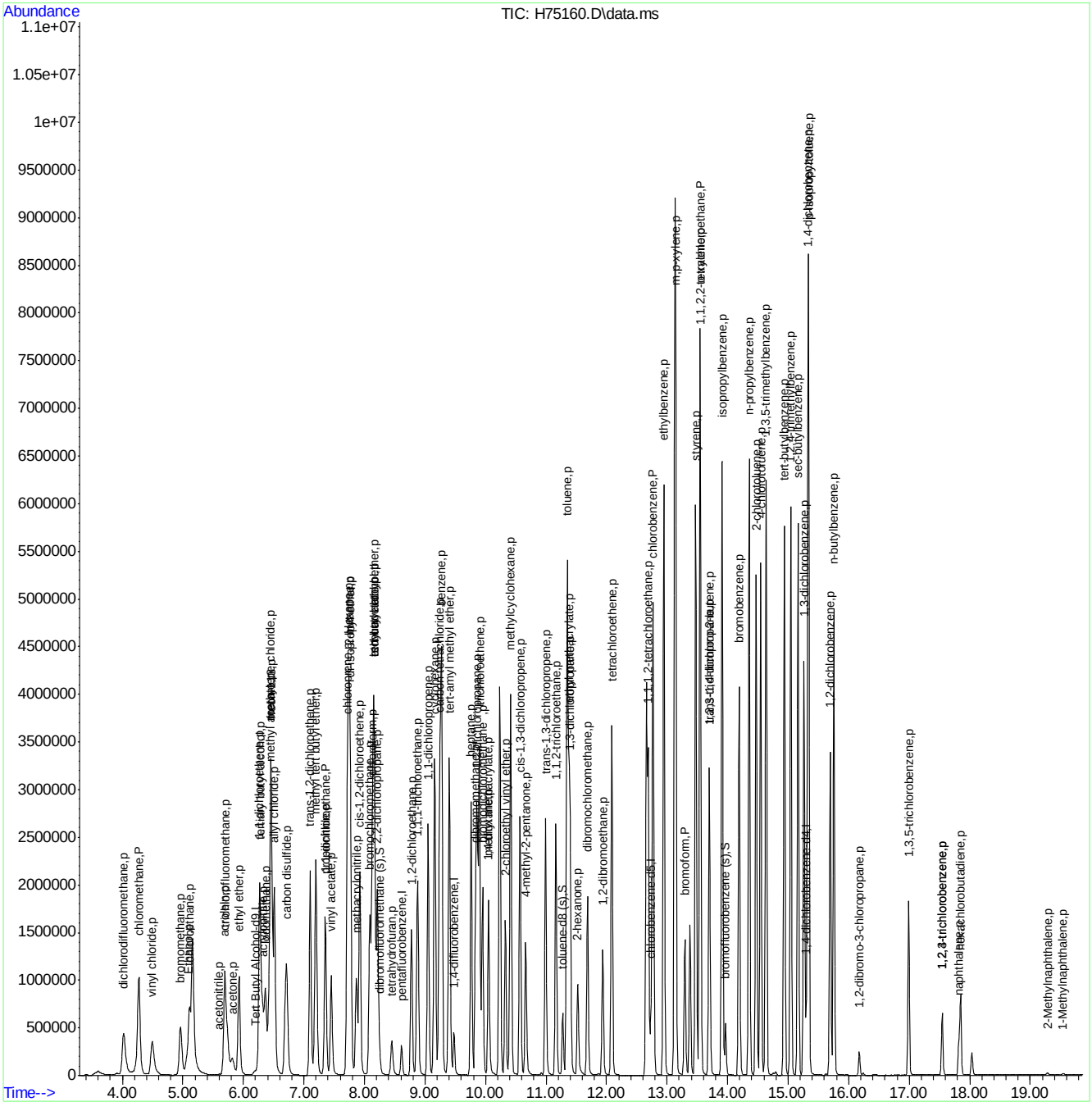
7.6.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration

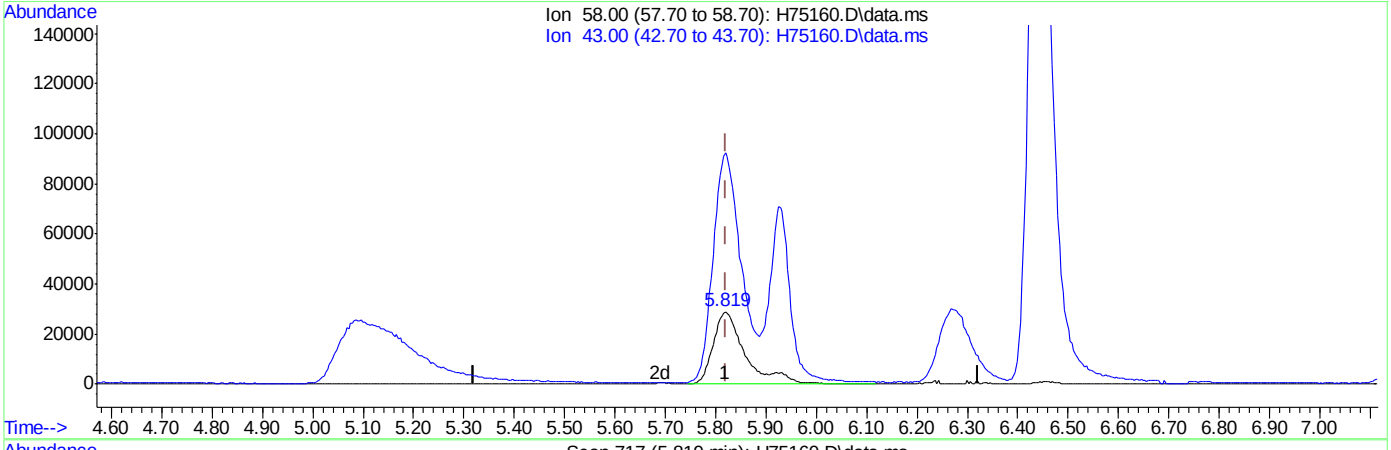


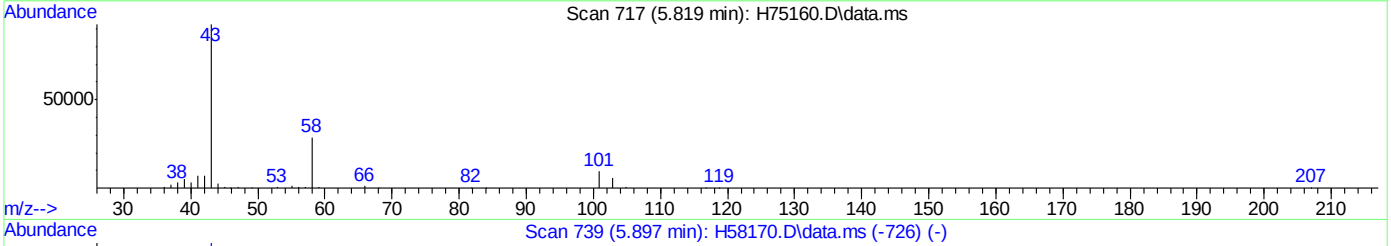
ACCUTEST LABORATORIES MC41757

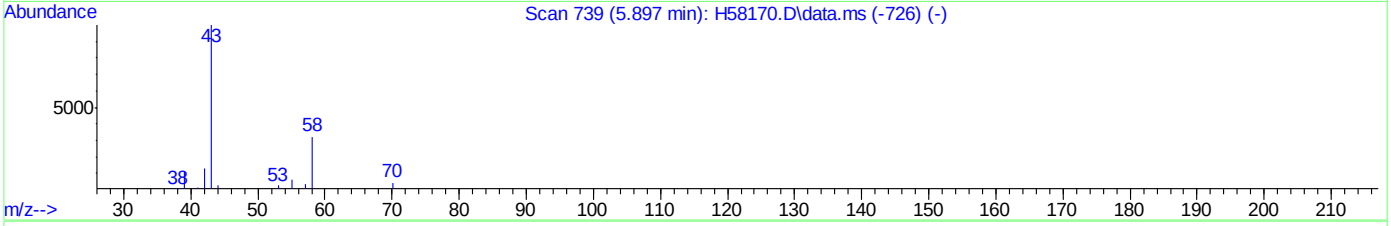
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(15) acetone (p)

5.819min (-0.002) 507.21ug/L

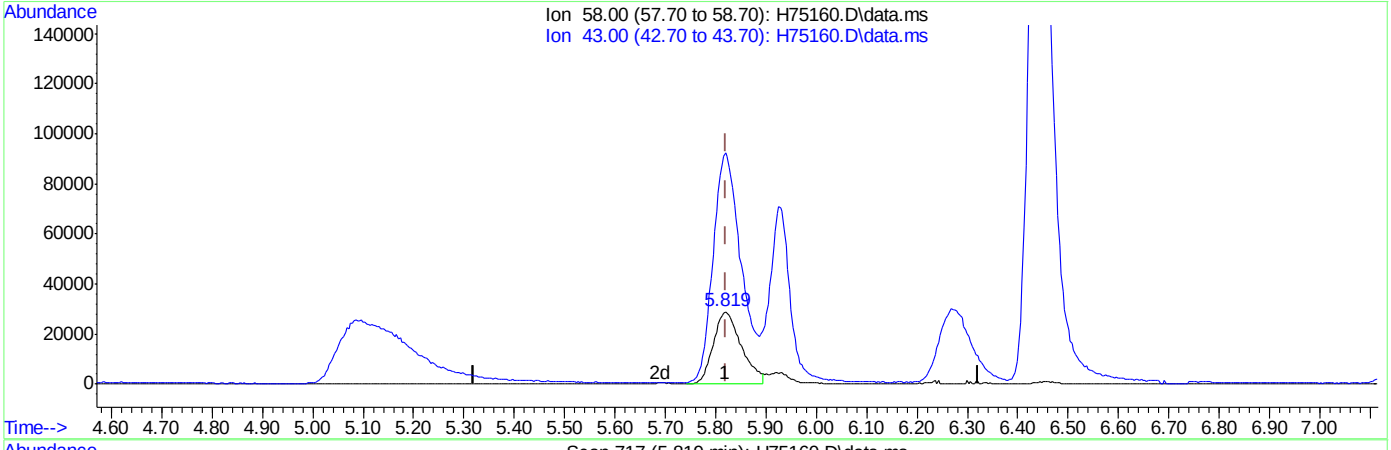
response 129730

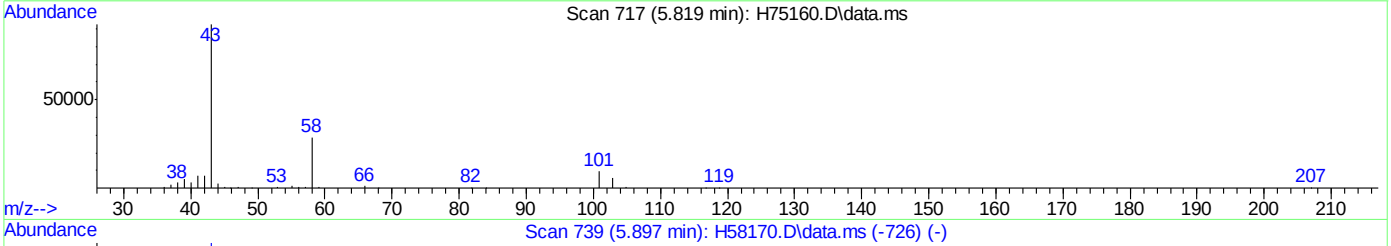
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	318.74
0.00	0.00	0.00
0.00	0.00	0.00

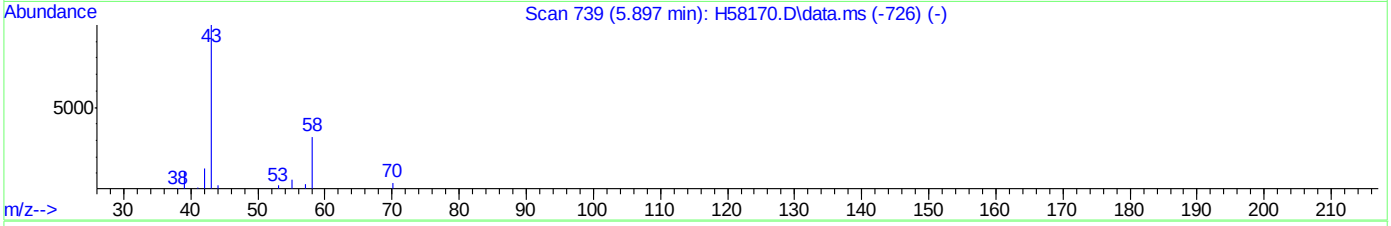
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(15) acetone (p)

5.819min (-0.002) 440.96ug/L m

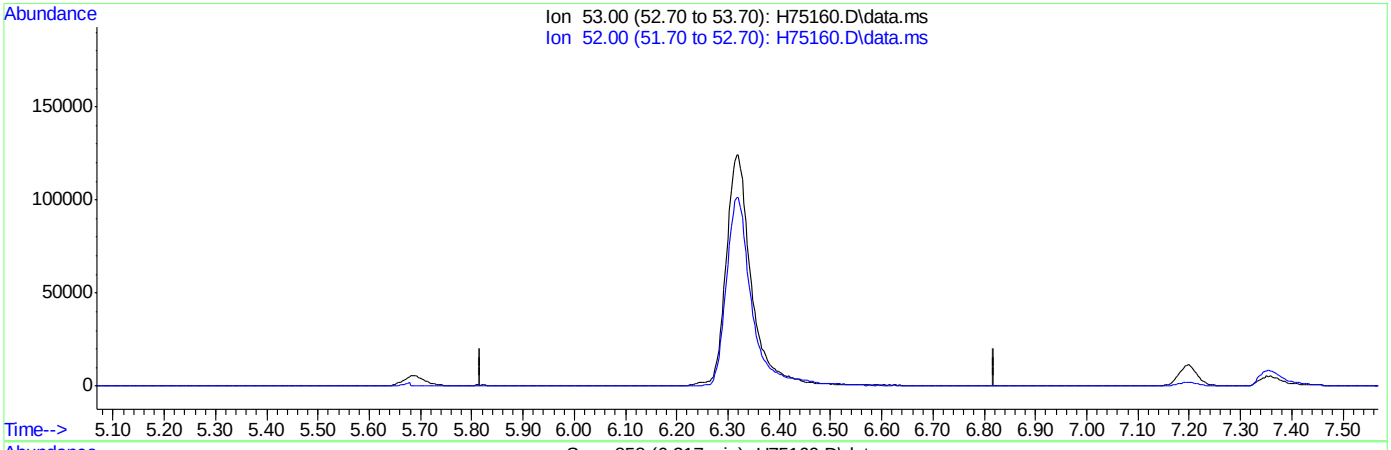
response 112785

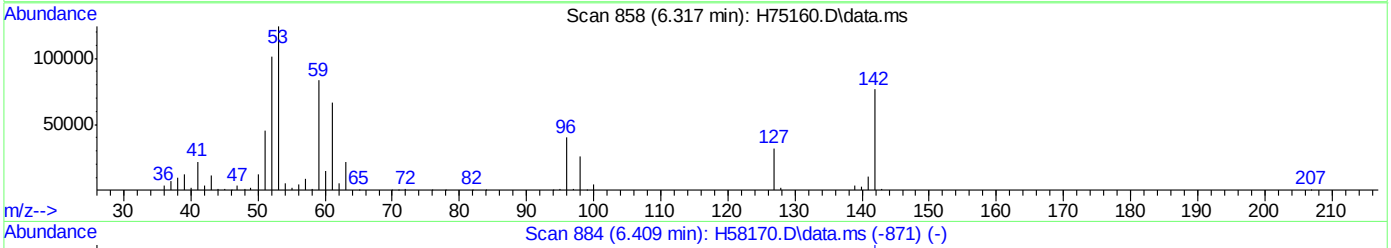
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	320.89
0.00	0.00	0.00
0.00	0.00	0.00

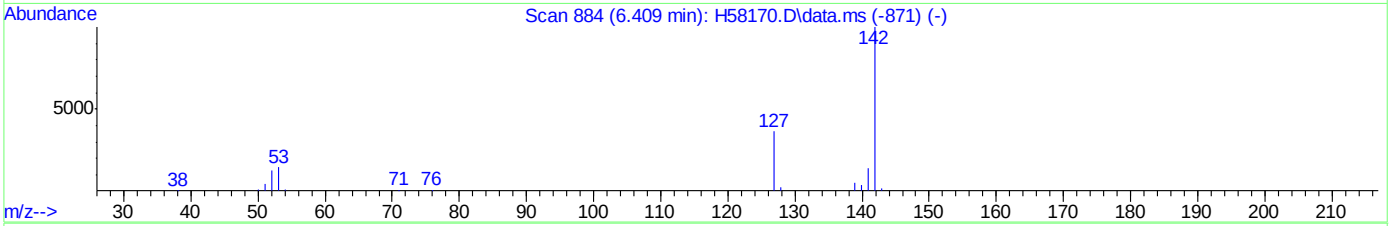
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(20) acrylonitrile (p)

6.319min (-6.319) 0.00ug/L

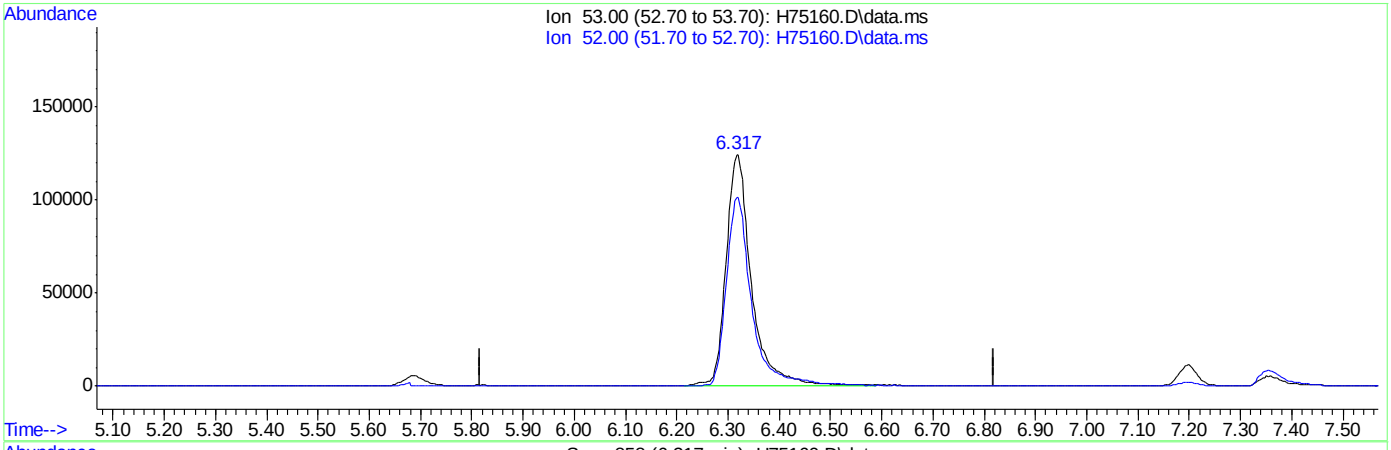
response 0

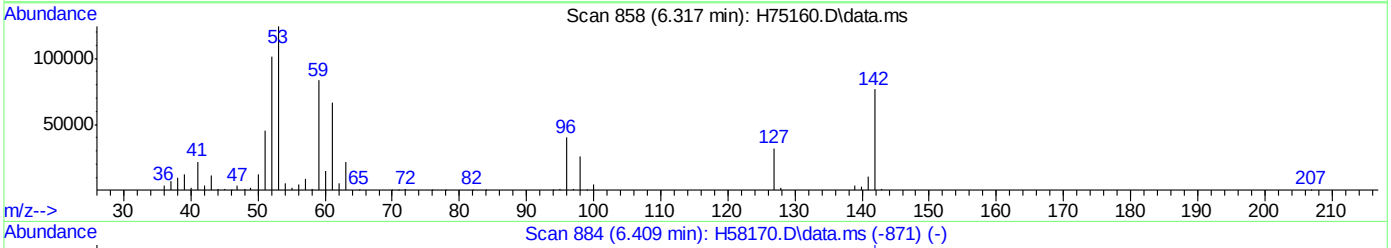
Ion	Exp%	Act%
53.00	100	0.00
52.00	84.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

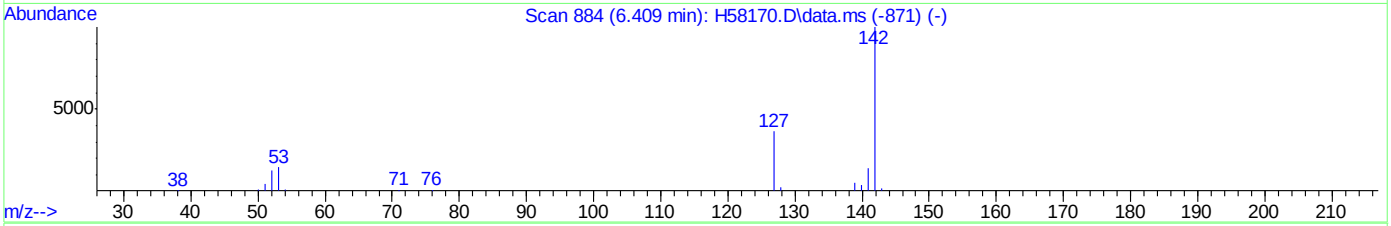
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(20) acrylonitrile (p)

6.317min (-0.002) 459.53ug/L m

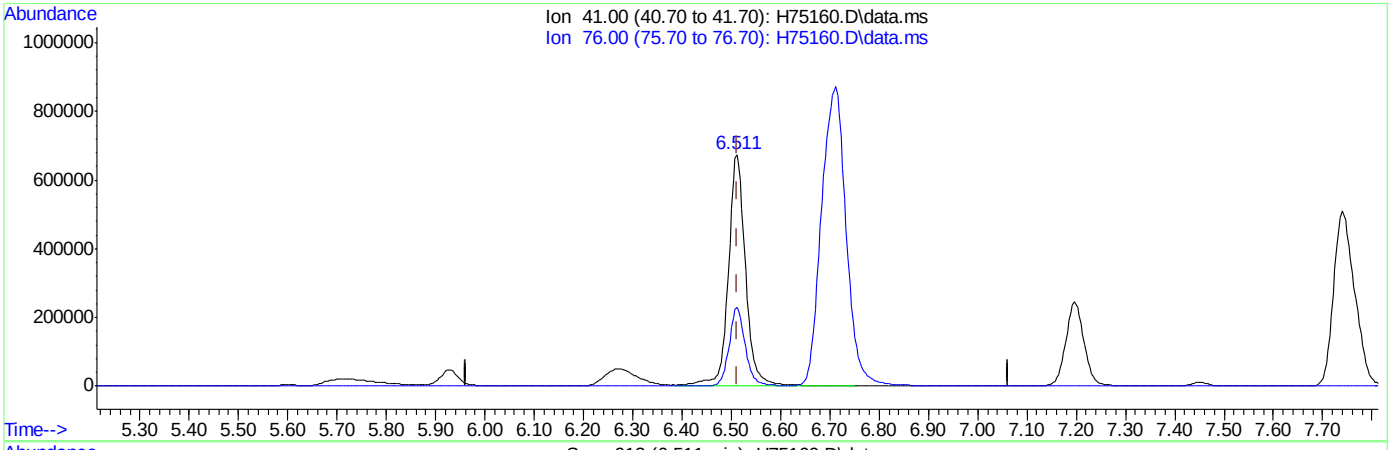
response 431247

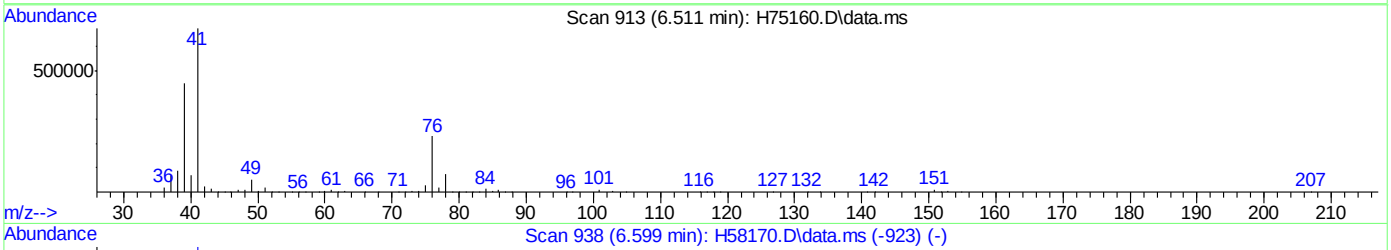
Ion	Exp%	Act%
53.00	100	100
52.00	84.80	81.48
0.00	0.00	0.00
0.00	0.00	0.00

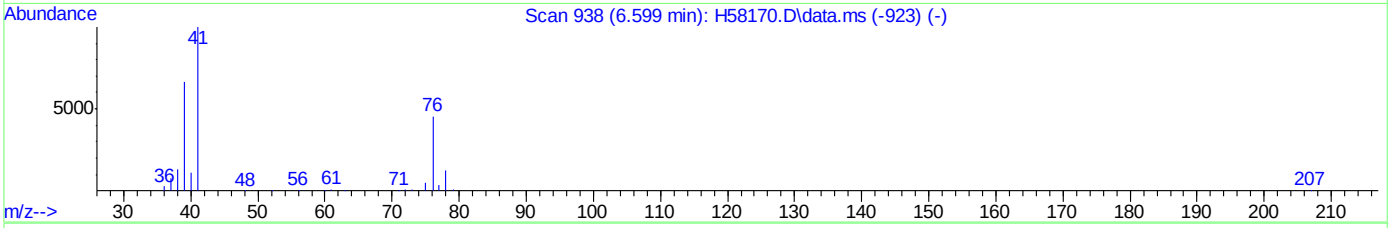
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(21) allyl chloride (p)

6.511min (-0.002) 373.98ug/L

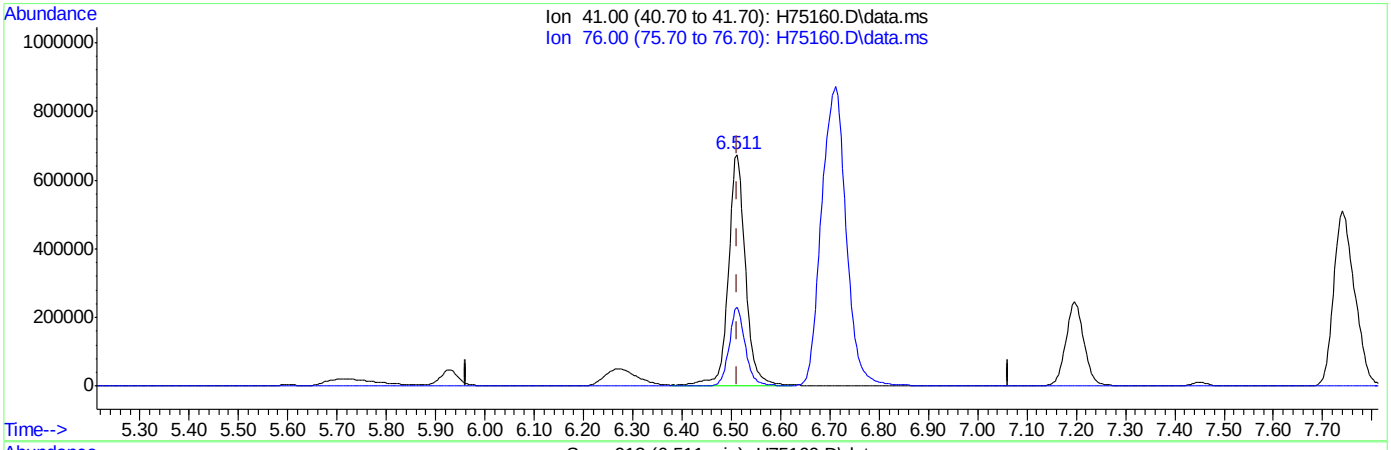
response 1633123

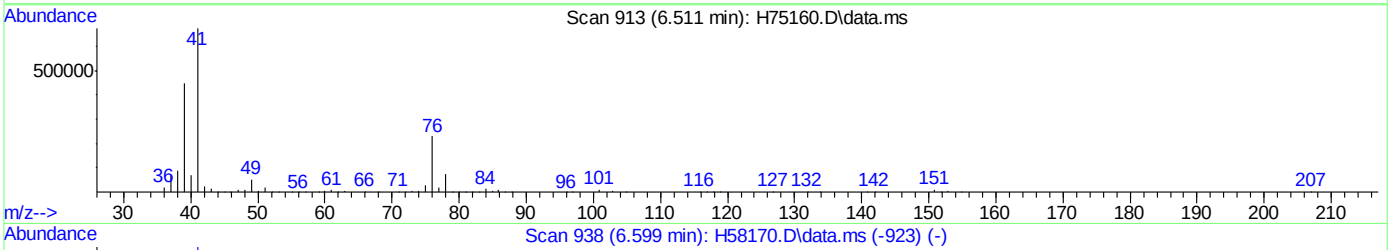
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	34.05
0.00	0.00	0.00
0.00	0.00	0.00

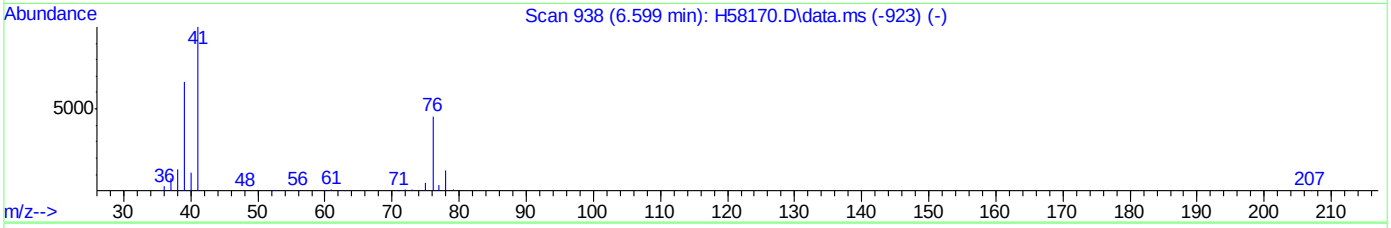
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(21) allyl chloride (p)

6.511min (-0.002) 374.87ug/L m

response 1637000

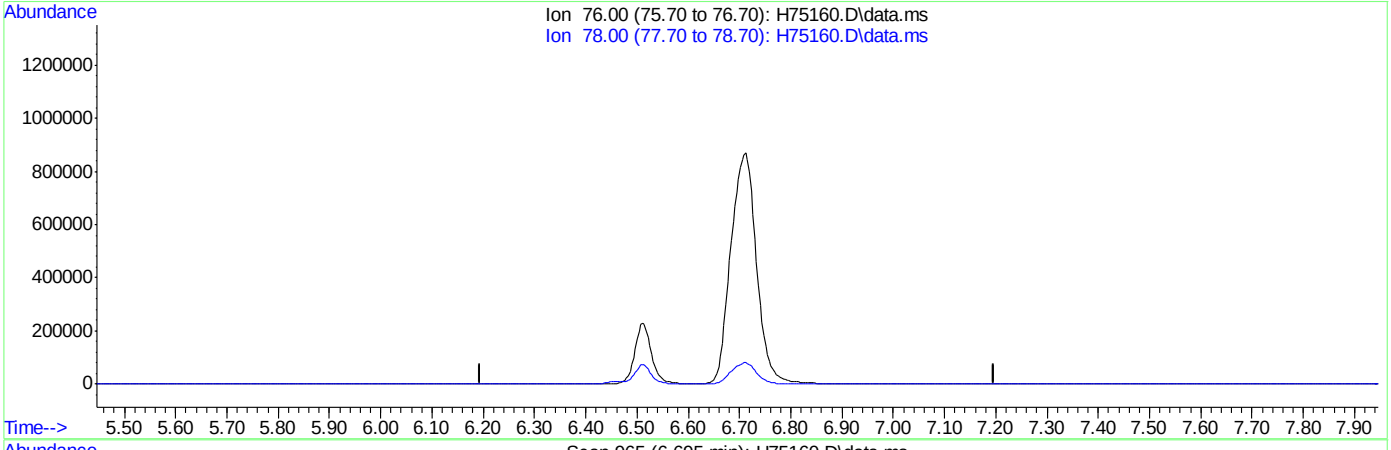
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	34.02
0.00	0.00	0.00
0.00	0.00	0.00

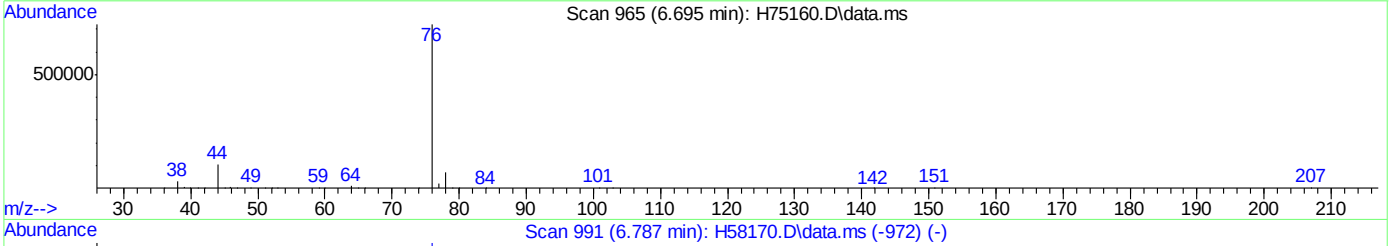
ACCUTEST LABORATORIES MC41757

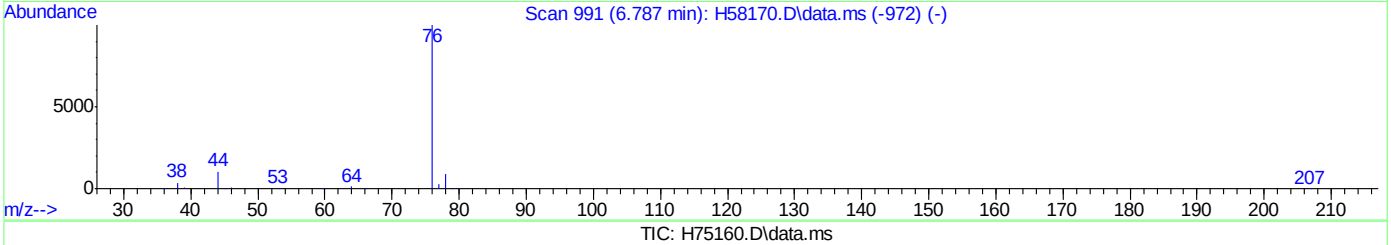
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(24) carbon disulfide (p)

6.696min (-6.696) 0.00ug/L

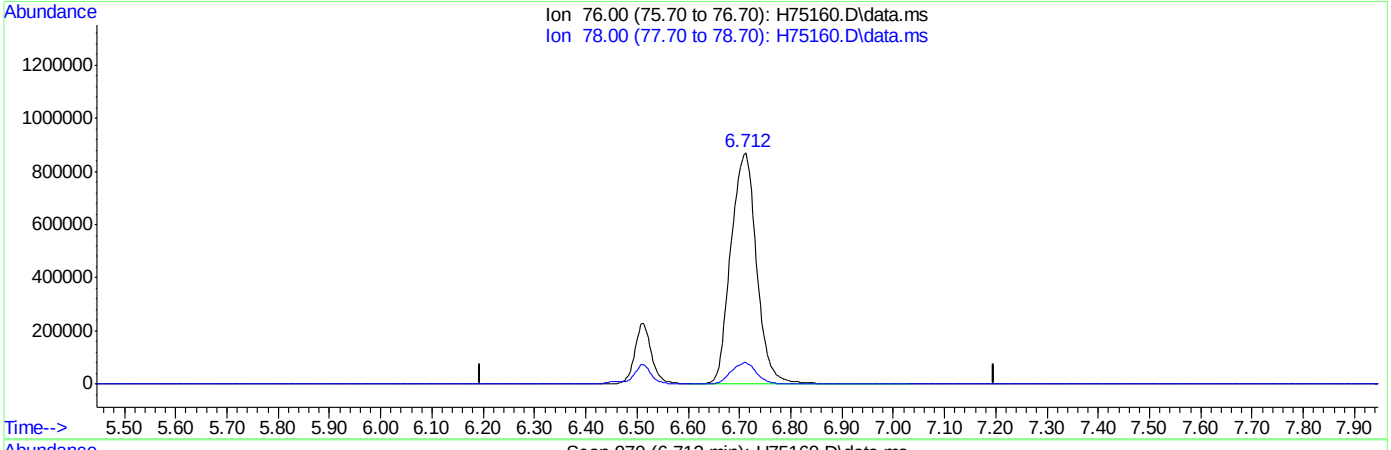
response 0

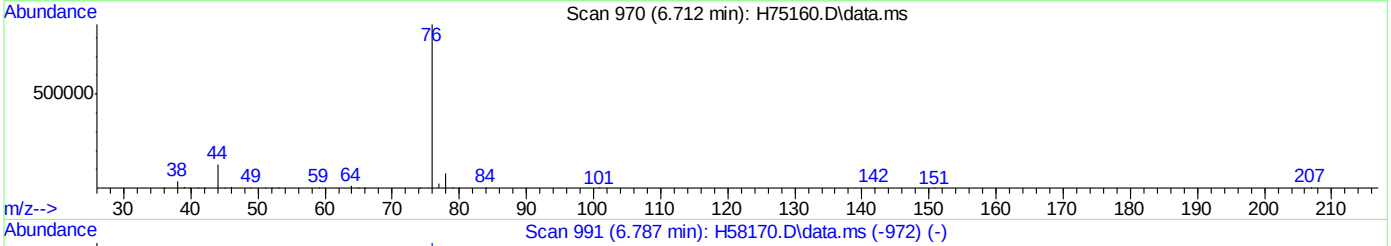
Ion	Exp%	Act%
76.00	100	0.00
78.00	10.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

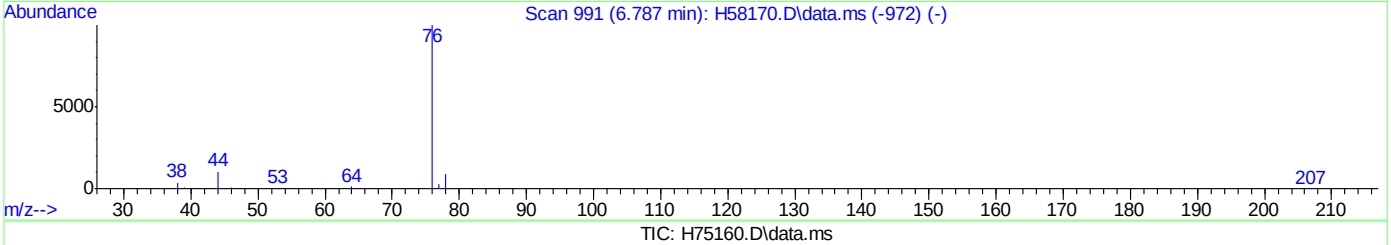
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(24) carbon disulfide (p)

6.712min (+0.016) 399.21ug/L m

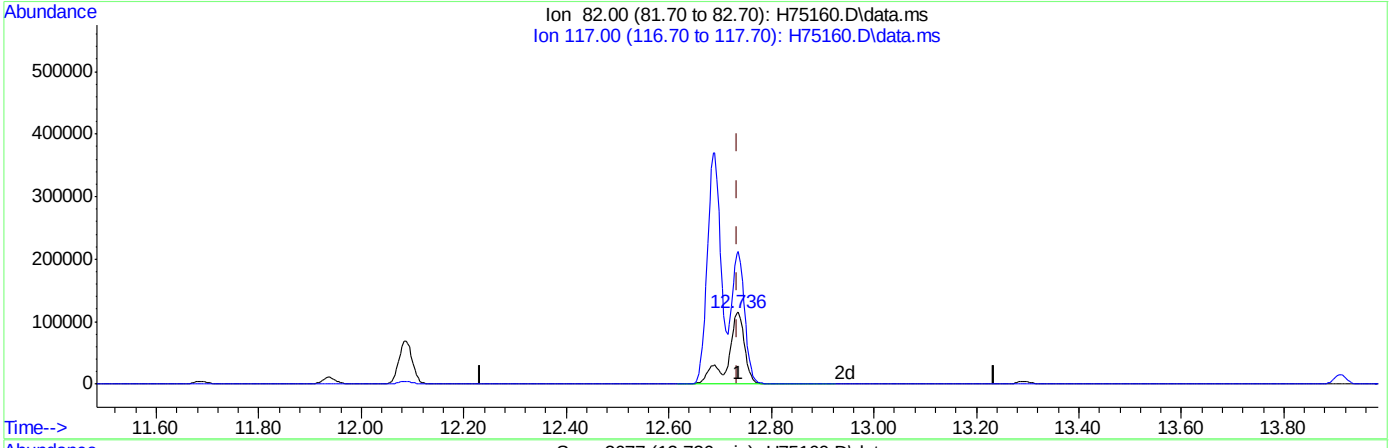
response 3059617

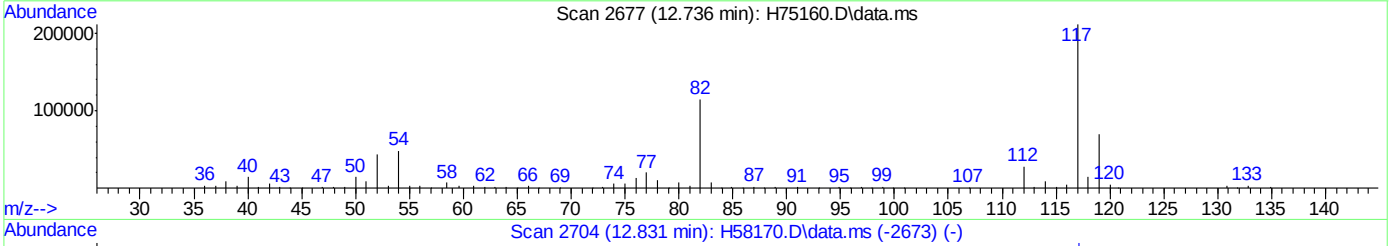
Ion	Exp%	Act%
76.00	100	100
78.00	10.10	9.25
0.00	0.00	0.00
0.00	0.00	0.00

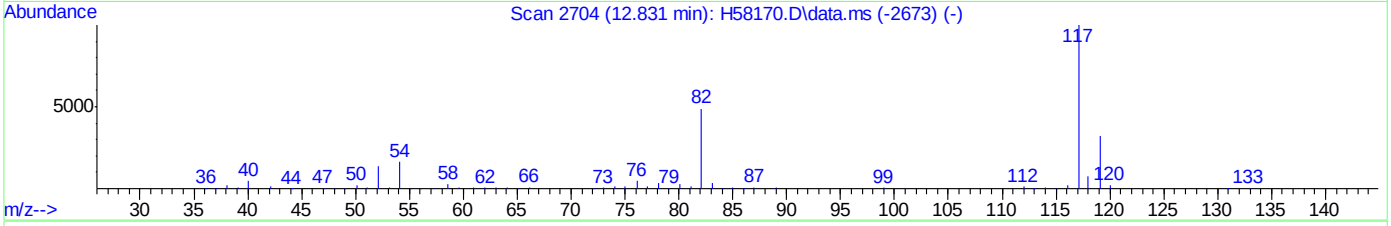
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(66) chlorobenzene-d5 (I)

12.736min (+0.002) 50.00ug/L

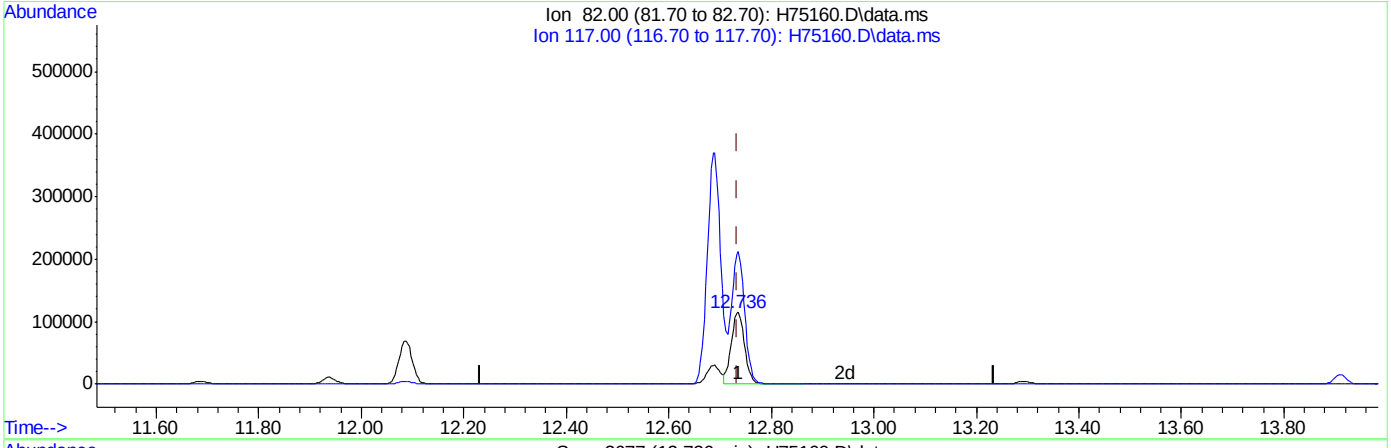
response 268547

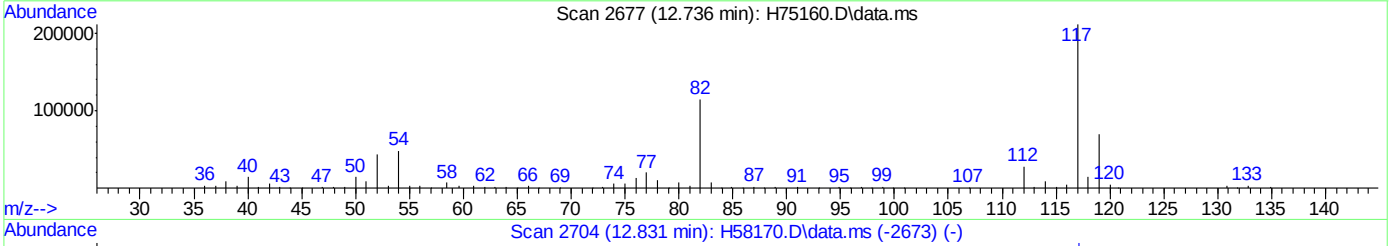
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	183.88
0.00	0.00	0.00
0.00	0.00	0.00

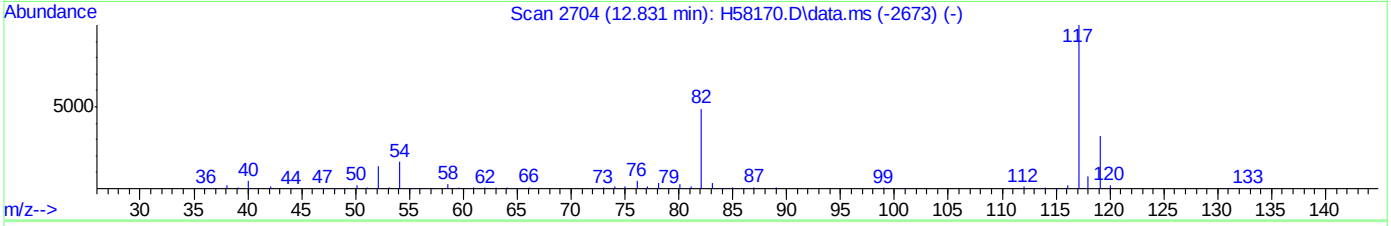
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:35:34 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration







TIC: H75160.D\data.ms

(66) chlorobenzene-d5 (I)

12.736min (+0.002) 50.00ug/L m

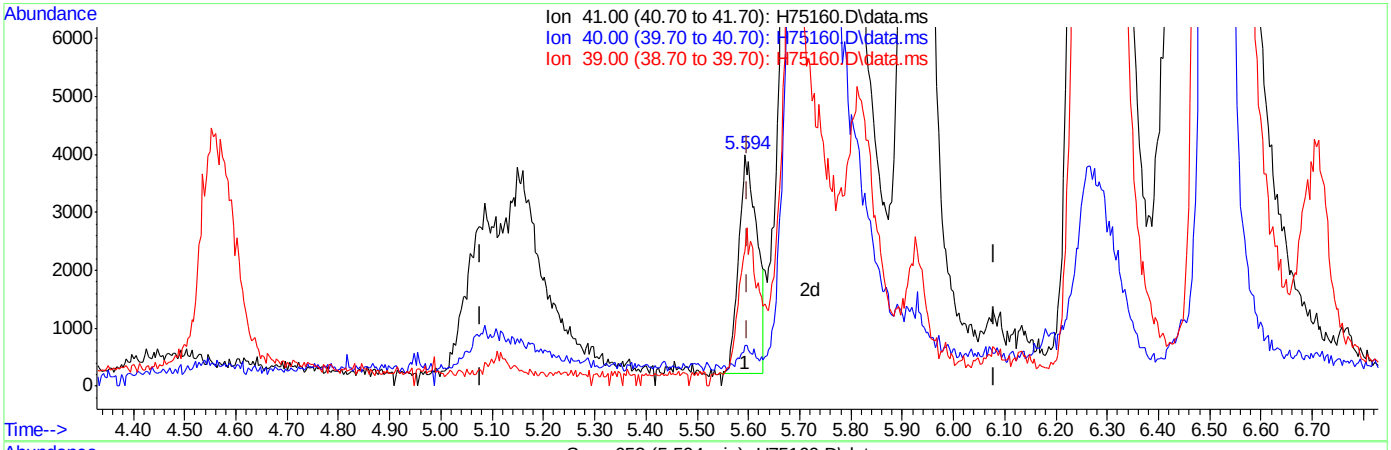
response 210669

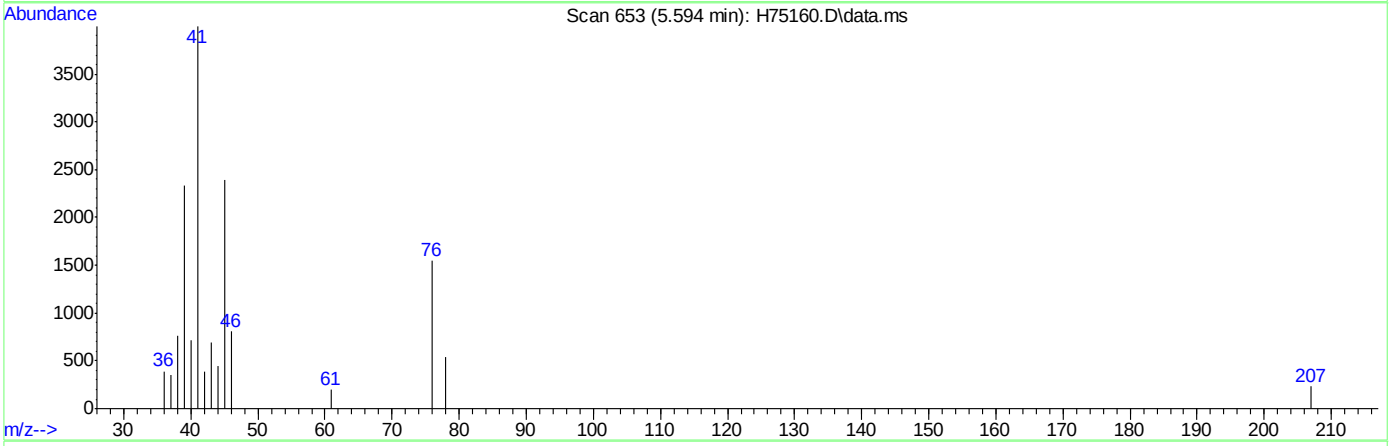
Ion	Exp%	Act%
82.00	100	100
117.00	202.40	183.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration





TIC: H75160.D\data.ms

(10) acetonitrile (p)

5.594min (-0.005) 275.53ug/L

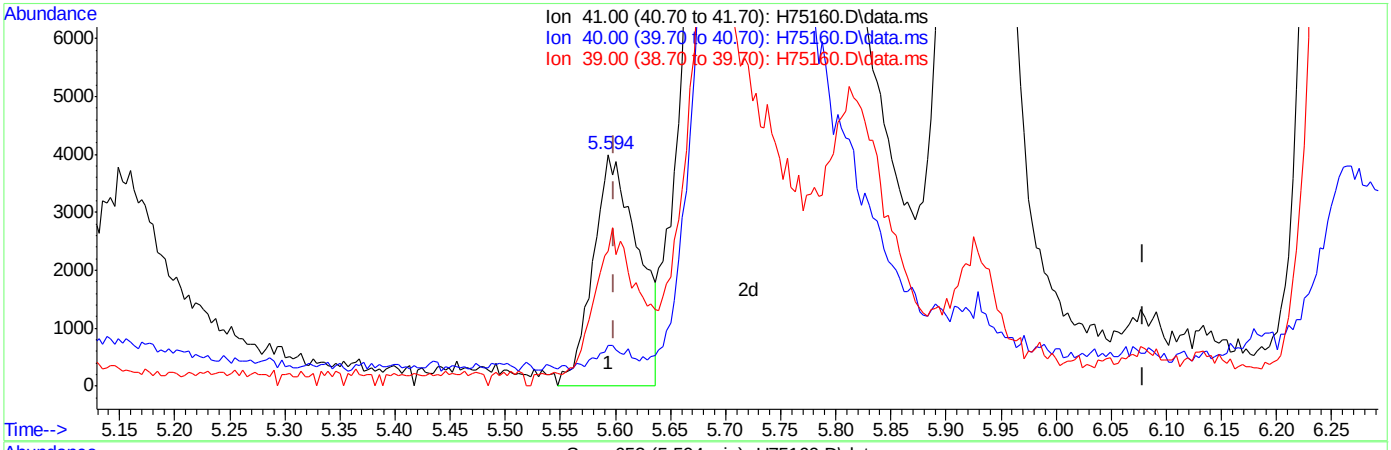
response 9439

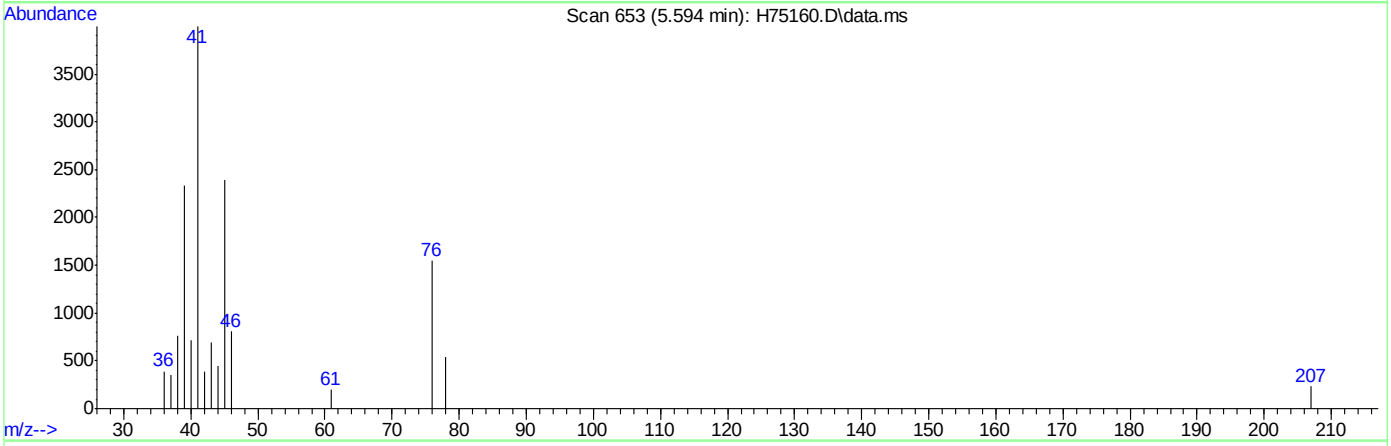
Ion	Exp%	Act%
41.00	100	100
40.00	22.50	10.16
39.00	56.70	55.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75160.D
Acq On : 25 Sep 2015 7:22 pm
Operator : kaylap
Sample : ic2500-400
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:37:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 09:35:25 2015
Response via : Initial Calibration





TIC: H75160.D\data.ms

(10) acetonitrile (p)

5.594min (-0.005) 330.23ug/L m

response 11313

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	17.78
39.00	56.70	58.31
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
09/30/15 11:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.190	65	97313	500.00	ug/L	0.00
4) pentafluorobenzene	8.615	168	228881	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.483	114	346932	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	203768	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.302	152	178962	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.251	113	110909	47.92	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 95.84%			
60) toluene-d8 (s)	11.275	98	419140	49.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.60%			
82) bromofluorobenzene (s)	13.964	95	176032	49.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.32%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.275	59	114997	511.68	ug/L	93
3) Ethanol	5.103	45	131279	4444.40	ug/L	97
5) dichlorodifluoromethane	4.024	85	108910	44.16	ug/L	99
6) chloromethane	4.271	50	117629	54.91	ug/L	96
7) vinyl chloride	4.500	62	137400	57.81	ug/L	98
8) bromomethane	4.955	96	83539	58.95	ug/L	98
9) chloroethane	5.103	64	84758	58.16	ug/L	99
11) trichlorofluoromethane	5.696	101	181972	50.87	ug/L	99
12) freon-113	6.466	101	104002	45.83	ug/L	95
13) acrolein	5.696	56	67080	653.38	ug/L	100
14) 1,1-dichloroethene	6.271	96	91933	46.76	ug/L #	77
15) acetone	5.827	58	16121m	66.23	ug/L	
16) ethyl ether	5.933	59	95084	48.45	ug/L	88
17) methyl acetate	6.451	43	123698	55.33	ug/L	87
18) methylene chloride	6.455	84	118993	47.85	ug/L #	77
19) methyl tert butyl ether	7.196	73	329472	53.91	ug/L	88
20) acrylonitrile	6.328	53	49258	54.80	ug/L	99
21) allyl chloride	6.515	41	175084	43.14	ug/L	90
22) trans-1,2-dichloroethene	7.108	96	103633	47.32	ug/L	84
23) iodomethane	6.367	142	167106	47.47	ug/L	87
24) carbon disulfide	6.691	76	302525	42.10	ug/L	99
25) propionitrile	7.376	54	17037	51.80	ug/L	100
26) vinyl acetate	7.457	43	222197	51.54	ug/L	93
27) chloroprene	7.718	53	169397	44.76	ug/L	99
28) di-isopropyl ether	7.764	45	417468	51.74	ug/L	89
29) methacrylonitrile	7.870	41	76619	49.41	ug/L	93
30) 2-butanone	7.768	72	16296	59.39	ug/L #	91
31) 1,1-dichloroethane	7.355	63	207248	46.26	ug/L	96
32) tert-butyl ethyl ether	8.156	59	384309	51.21	ug/L	91
33) Hexane	7.743	41	180625	43.87	ug/L	88
34) isobutyl alcohol	8.159	43	75297	388.92	ug/L	93
35) 2,2-dichloropropane	8.212	77	154309	46.80	ug/L	96
36) cis-1,2-dichloroethene	7.926	96	118166	49.07	ug/L	87
37) ethyl acetate	8.159	43	74345	76.26	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.089	128	57098	48.60	ug/L #	53
39) chloroform	8.128	83	203884	47.35	ug/L	99
41) 1,1,1-trichloroethane	8.879	97	168111	49.05	ug/L	92
43) cyclohexane	9.162	56	184977	44.99	ug/L #	78
44) carbon tetrachloride	9.243	117	139761	51.42	ug/L	96
45) 1,1-dichloropropene	9.052	75	144162	48.08	ug/L	93
46) benzene	9.274	78	426443	48.34	ug/L	100
47) tetrahydrofuran	8.456	42	39118	53.25	ug/L	88
48) 1,2-dichloroethane	8.780	62	160024	48.63	ug/L	100
49) tert-amyl methyl ether	9.401	73	322006	53.70	ug/L	92
50) heptane	9.761	43	152619	49.15	ug/L	93
51) trichloroethene	9.896	95	117019	50.62	ug/L	79
52) 1,2-dichloropropane	9.860	63	123855	50.55	ug/L	96
53) dibromomethane	9.836	93	75526	51.41	ug/L	98
54) bromodichloromethane	9.952	83	147352	50.11	ug/L	96
55) methylcyclohexane	10.414	83	177393	47.25	ug/L	86
56) 2-chloroethyl vinyl ether	10.330	63	87900	55.51	ug/L	89
57) methyl methacrylate	10.054	69	85280	55.61	ug/L	92
58) 1,4-dioxane	10.054	88	4667	224.49	ug/L	84
59) cis-1,3-dichloropropene	10.573	75	175412	53.43	ug/L	89
61) 4-methyl-2-pentanone	10.665	43	136722	54.97	ug/L	93
62) toluene	11.349	92	271812	50.45	ug/L	100
63) trans-1,3-dichloropropene	10.993	75	158946	47.92	ug/L	98
64) 1,1,2-trichloroethane	11.162	83	92134	51.38	ug/L	89
65) ethyl methacrylate	11.378	69	167090	56.91	ug/L	90
67) tetrachloroethene	12.087	166	124682	51.32	ug/L	92
68) 1,3-dichloropropane	11.399	76	189085	51.82	ug/L	97
69) dibromochloromethane	11.685	129	108901	45.30	ug/L	98
70) 1,2-dibromoethane	11.939	107	111517	51.89	ug/L	94
71) 2-hexanone	11.529	43	102002m	57.85	ug/L	
72) chlorobenzene	12.768	112	311580	48.18	ug/L	91
73) 1,1,1,2-tetrachloroethane	12.687	131	106682	53.32	ug/L	97
74) ethylbenzene	12.948	91	540445	52.09	ug/L	98
75) m,p-xylene	13.135	106	419505	107.78	ug/L	98
76) o-xylene	13.544	106	201534	50.46	ug/L	100
77) styrene	13.474	104	339160	50.49	ug/L	99
78) bromoform	13.294	173	72445	53.30	ug/L	98
79) trans-1,4-dichloro-2-b...	13.700	53	37867	48.64	ug/L #	76
81) isopropylbenzene	13.908	105	508903	48.98	ug/L	100
83) bromobenzene	14.190	156	143590	50.00	ug/L	88
84) 1,1,2,2-tetrachloroethane	13.548	83	141349	55.79	ug/L	95
85) 1,2,3-trichloropropane	13.696	75	153644	53.41	ug/L	95
86) n-propylbenzene	14.356	91	588277	48.00	ug/L	95
87) 2-chlorotoluene	14.469	91	356439	48.63	ug/L	89
88) 4-chlorotoluene	14.546	91	380789	49.38	ug/L	91
89) 1,3,5-trimethylbenzene	14.635	105	444027	54.39	ug/L	100
90) tert-butylbenzene	14.938	91	248711	49.98	ug/L	92
91) 1,2,4-trimethylbenzene	15.044	105	431310	52.65	ug/L	99
92) sec-butylbenzene	15.160	105	533981	50.46	ug/L	99
93) 1,3-dichlorobenzene	15.259	146	243459	50.10	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.337	119	457569	51.42	ug/L	97
95) 1,4-dichlorobenzene	15.326	146	263073	49.62	ug/L	99
96) 1,2-dichlorobenzene	15.697	146	233538	52.91	ug/L	99
97) n-butylbenzene	15.757	91	419993	53.25	ug/L	93
98) 1,2-dibromo-3-chloropr...	16.177	75	14837	58.88	ug/L	90
99) 1,3,5-trichlorobenzene	16.992	180	137660	50.77	ug/L #	94
100) 1,2,4-trichlorobenzene	17.549	180	79833	58.48	ug/L	94
101) hexachlorobutadiene	17.849	225	58514	58.59	ug/L	98
102) naphthalene	17.825	128	117650	57.54	ug/L	100
103) 1,2,3-trichlorobenzene	17.549	180	79833	58.48	ug/L	95

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

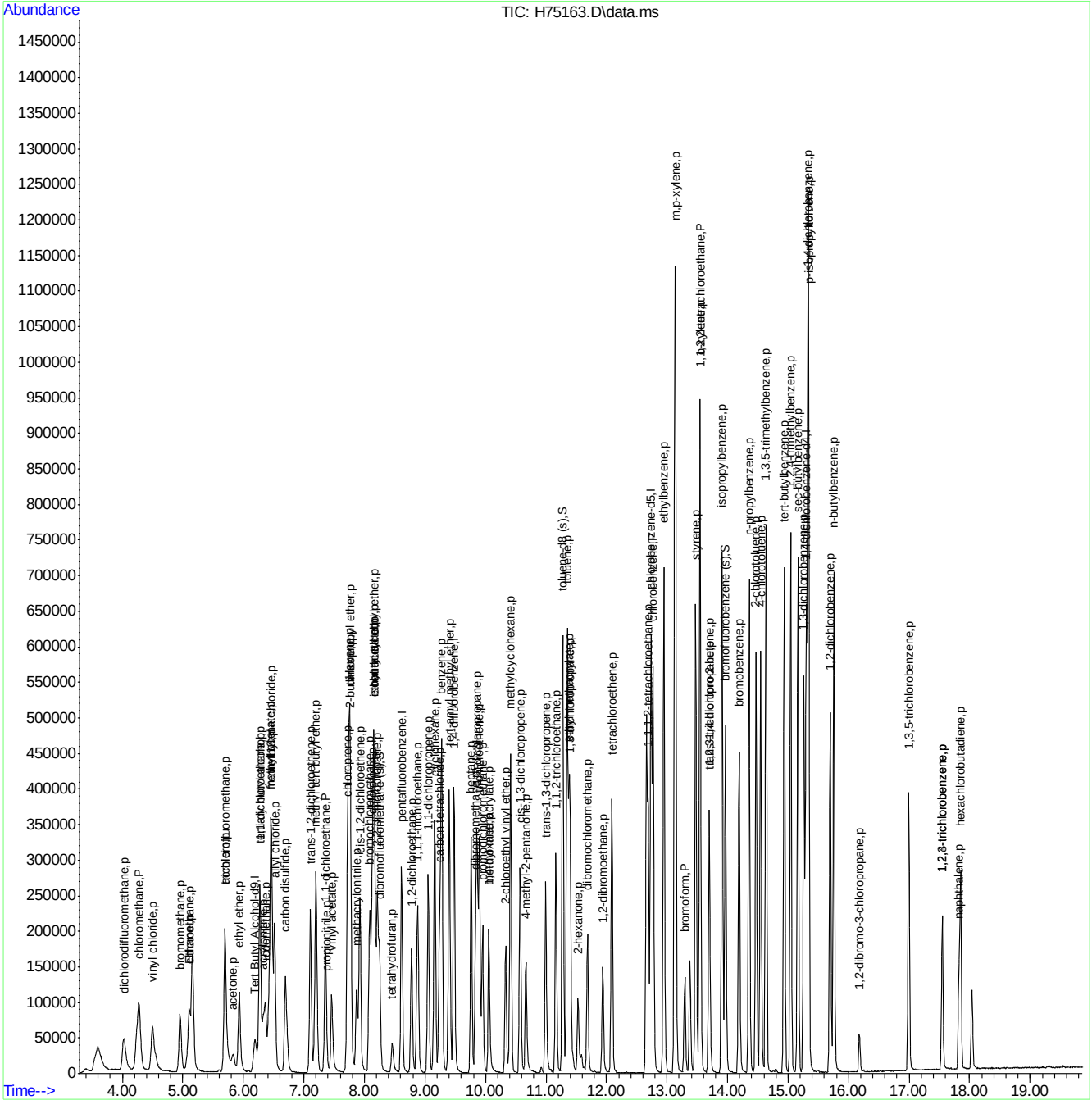
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 30 09:16:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration

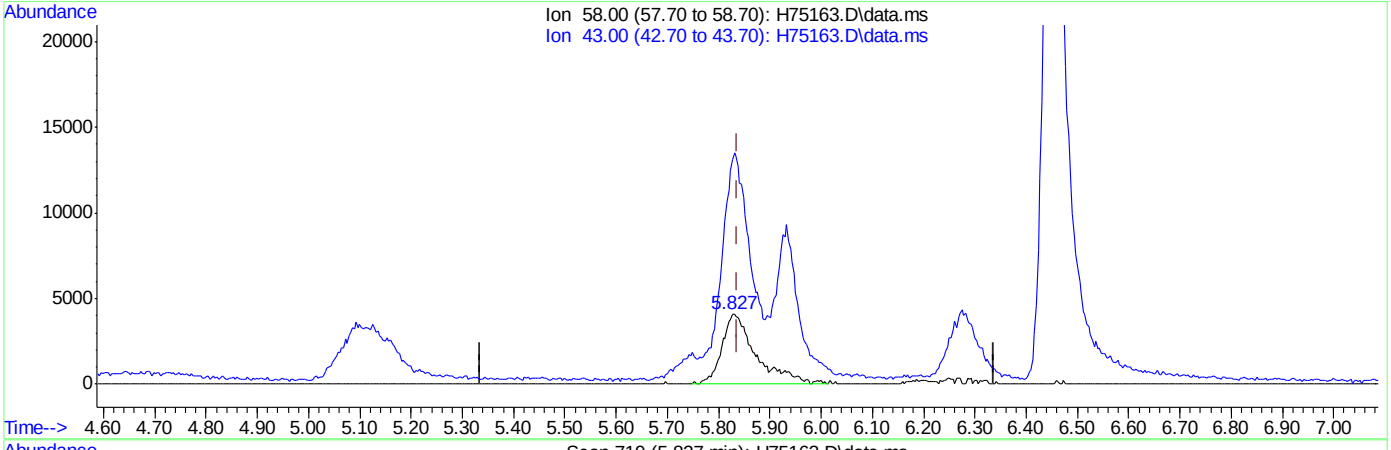


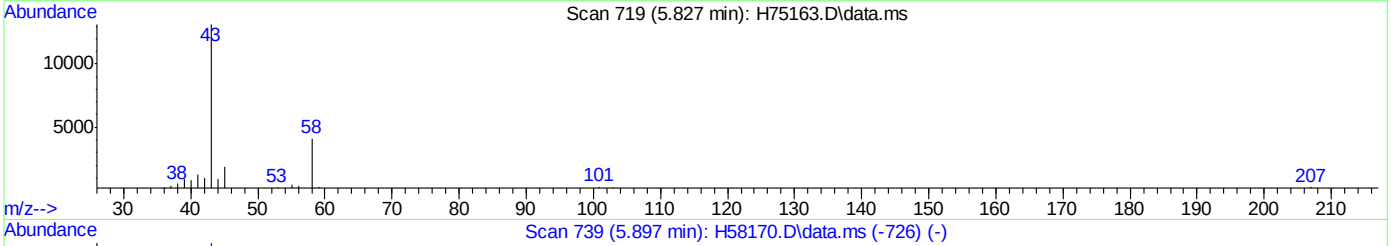
ACCUTEST LABORATORIES MC41757

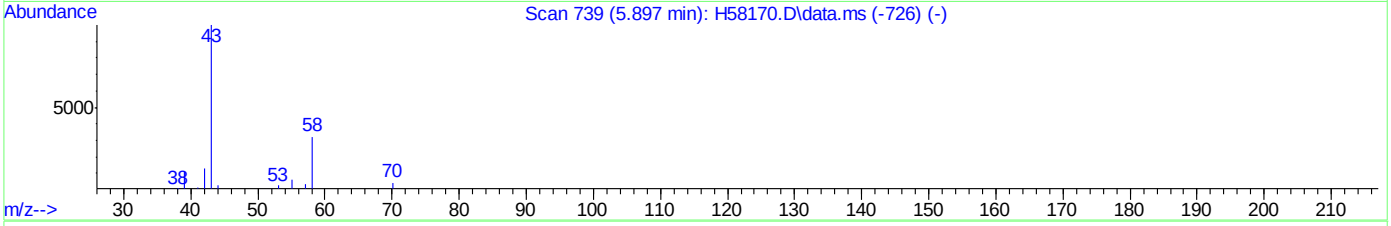
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 78.37ug/L

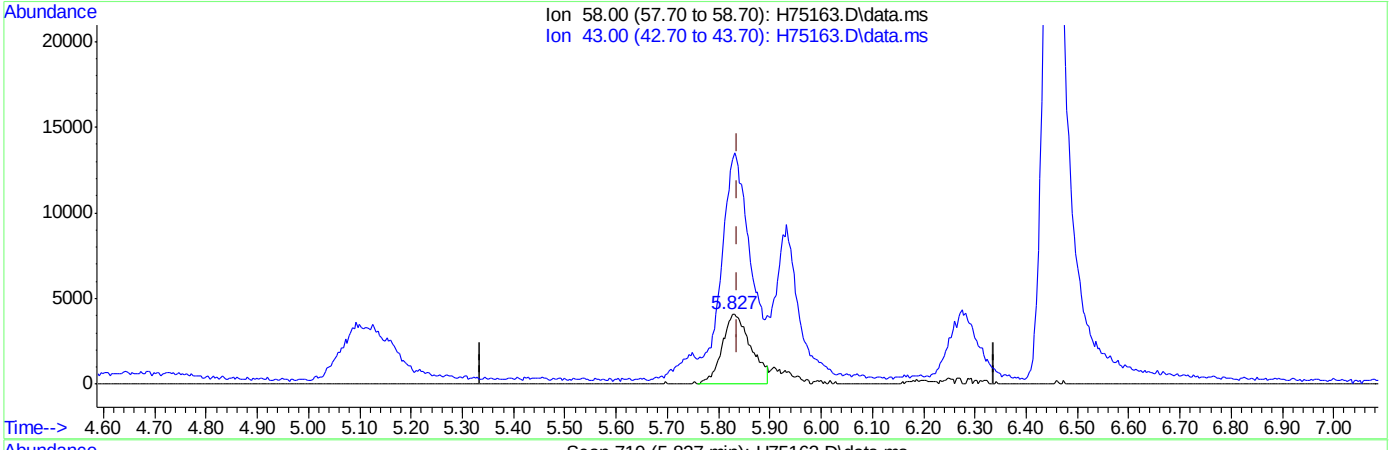
response 19075

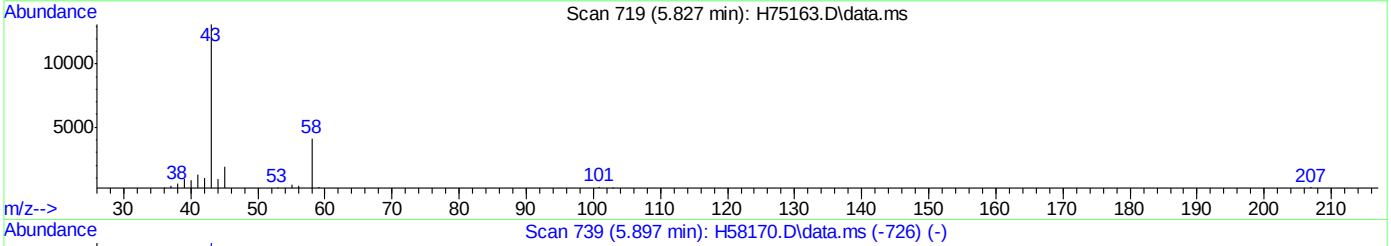
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	298.83
0.00	0.00	0.00
0.00	0.00	0.00

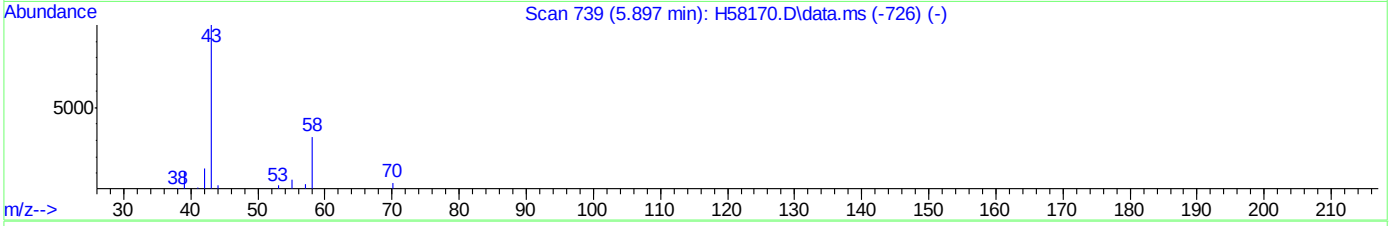
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 65.66ug/L m

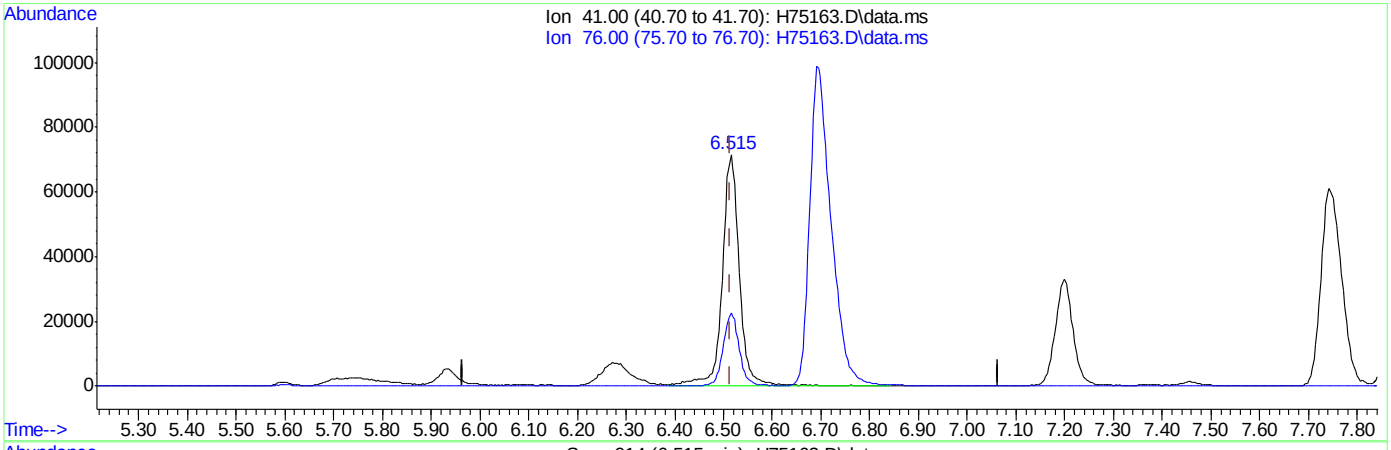
response 15982

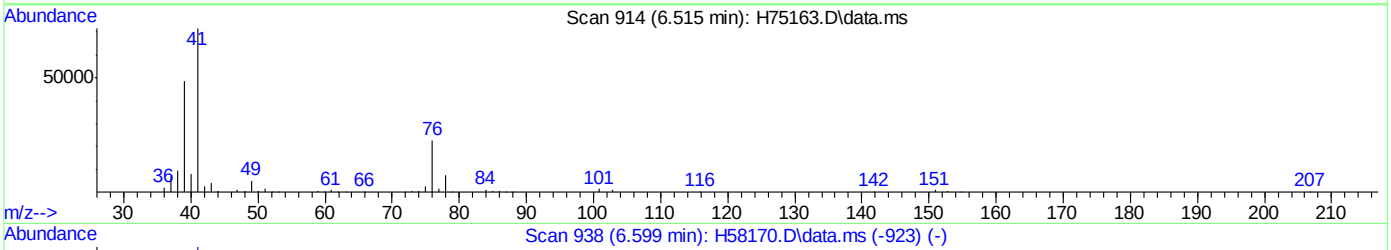
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.41
0.00	0.00	0.00
0.00	0.00	0.00

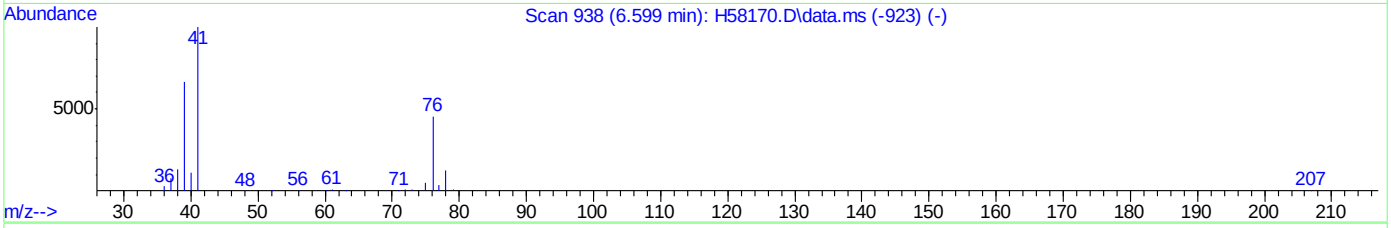
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 43.14ug/L

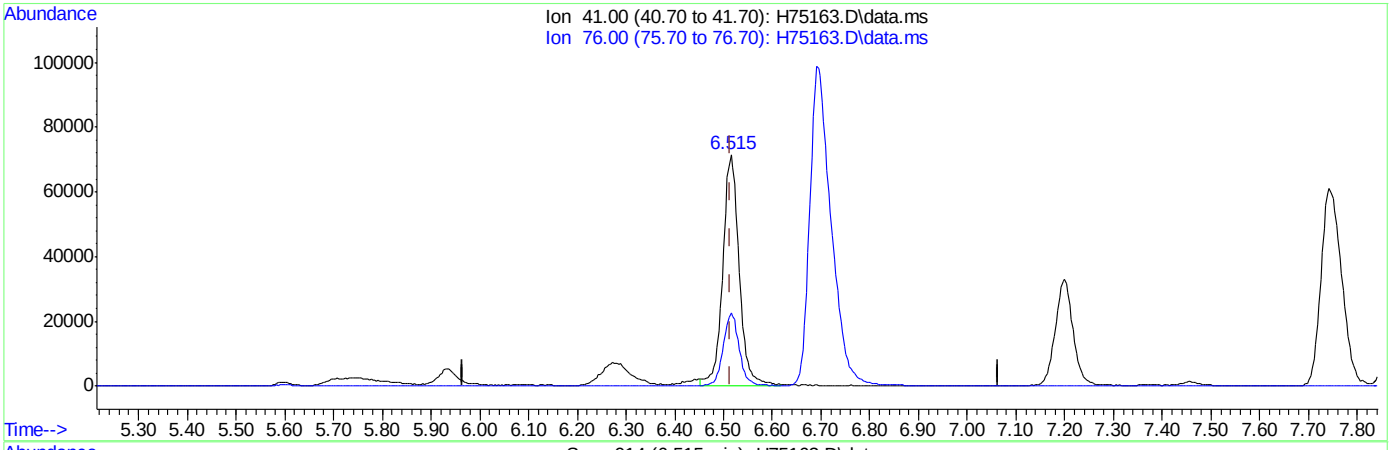
response 175084

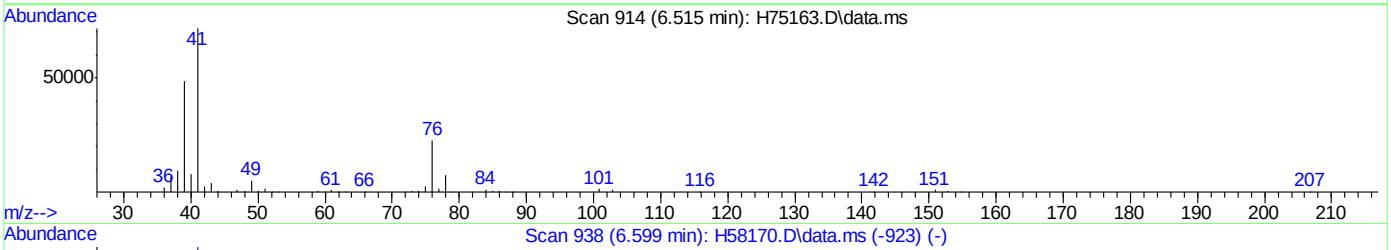
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

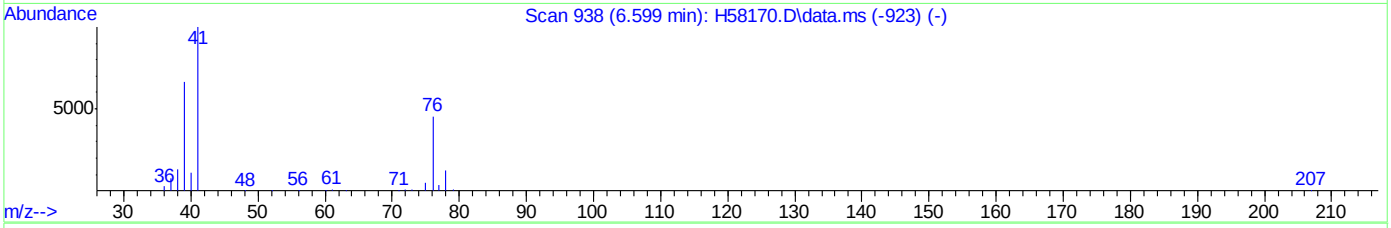
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 41.06ug/L m

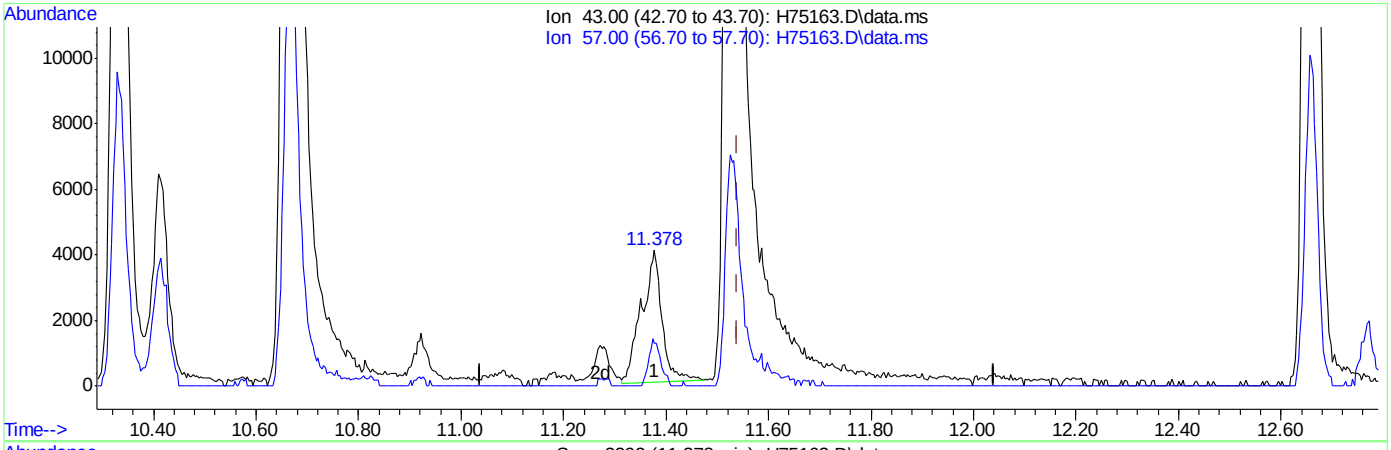
response 166662

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration



TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.378min (-0.162) 6.29ug/L

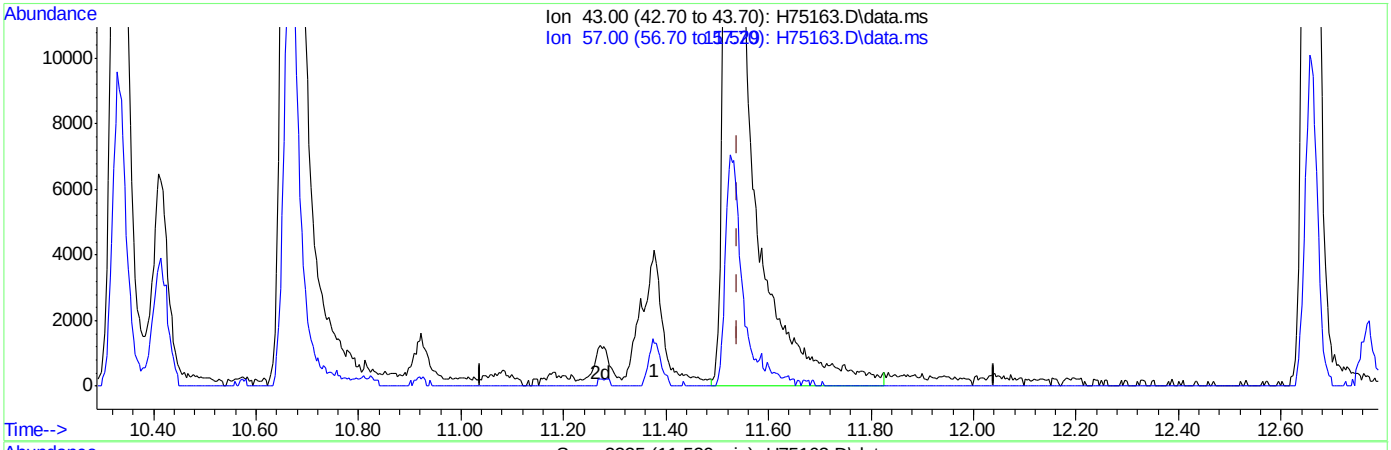
response 11100

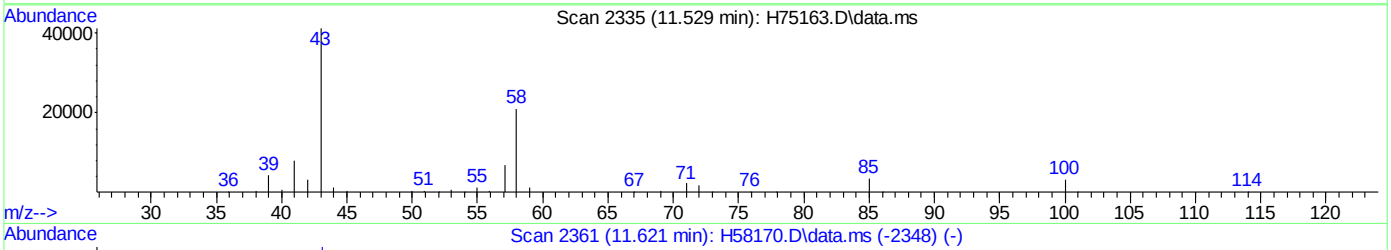
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	21.07
0.00	0.00	0.00
0.00	0.00	0.00

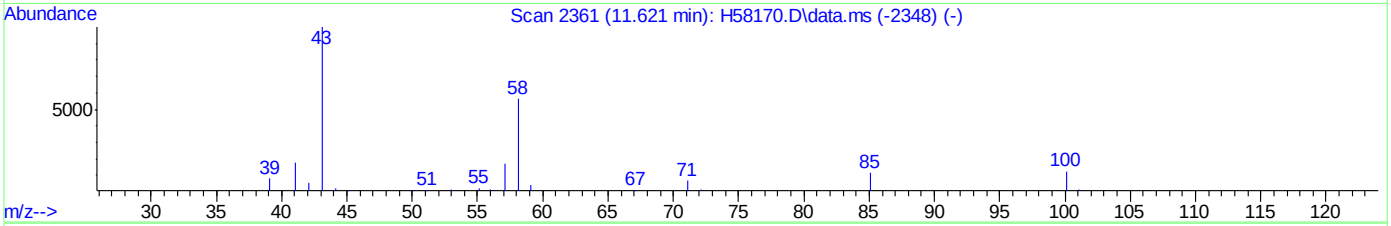
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 10:04:37 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 10:03:41 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.529min (-0.010) 59.04ug/L m

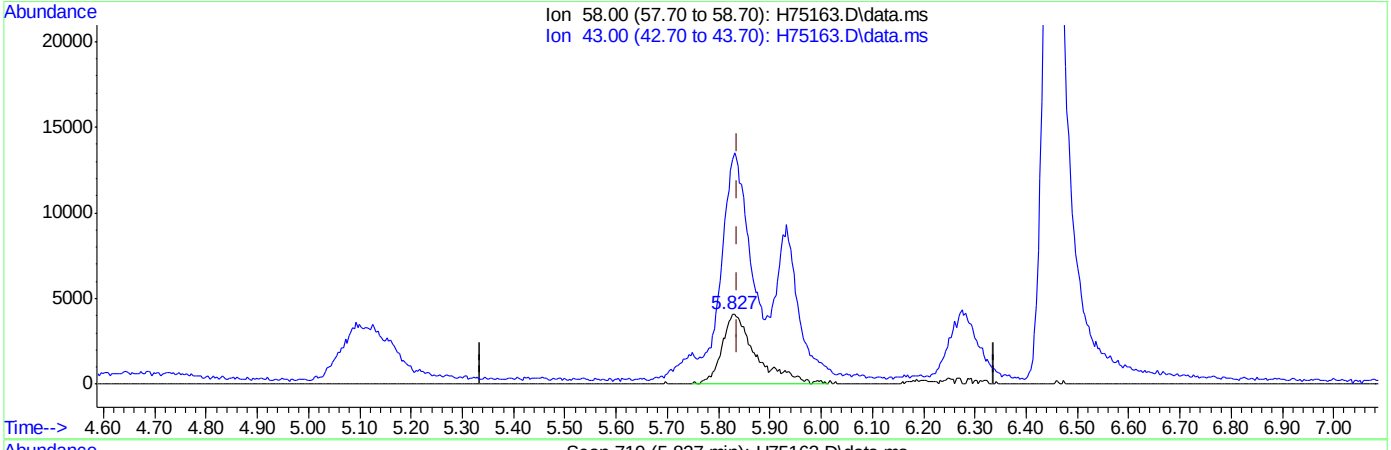
response 104100

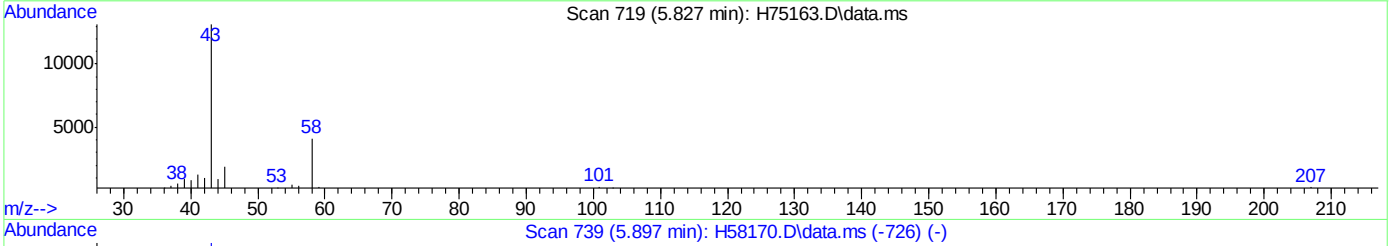
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	2.25
0.00	0.00	0.00
0.00	0.00	0.00

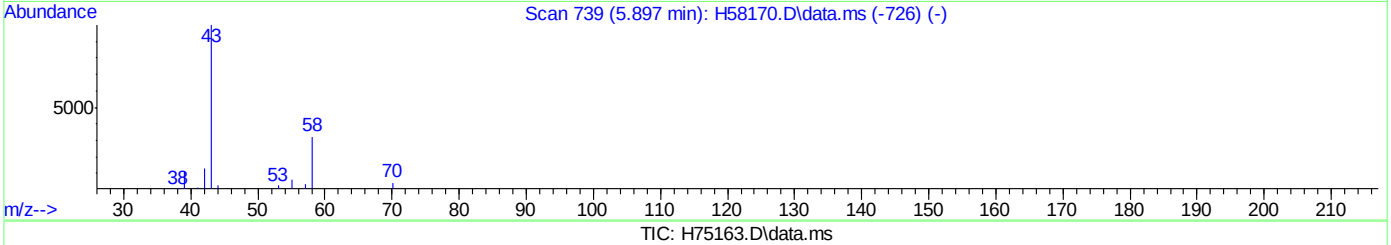
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 78.37ug/L

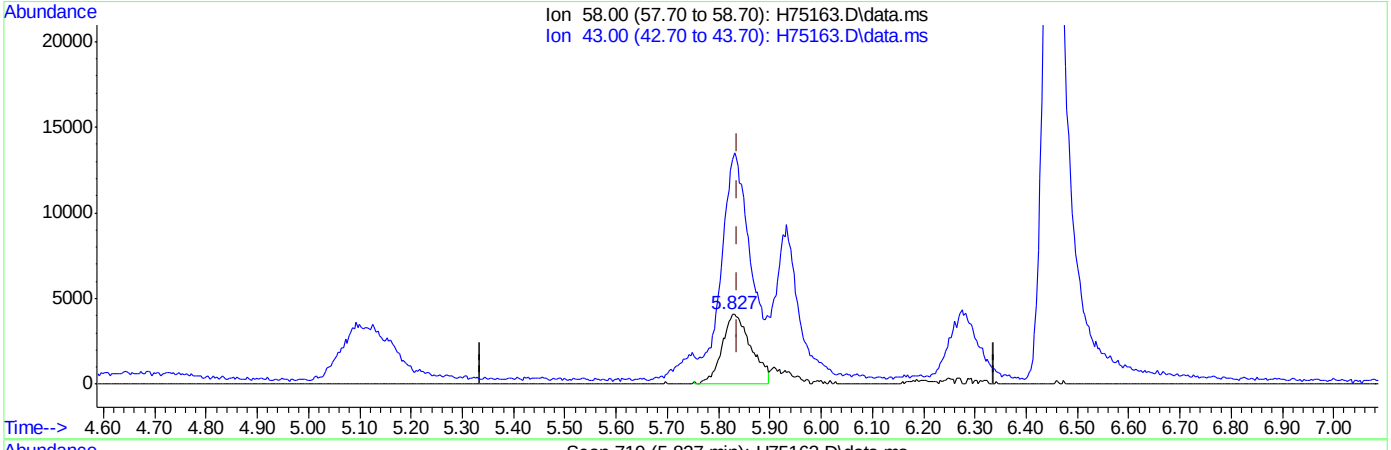
response 19075

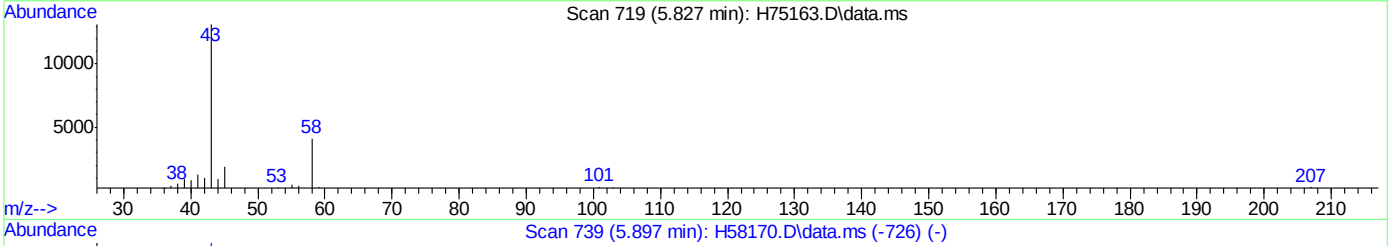
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	298.83
0.00	0.00	0.00
0.00	0.00	0.00

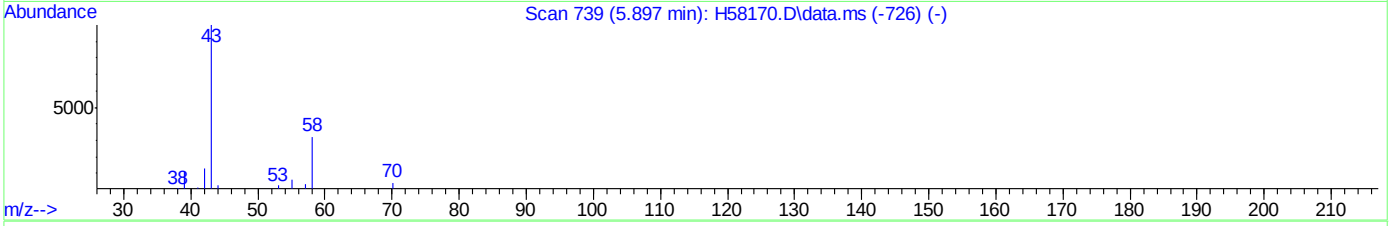
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 66.24ug/L m

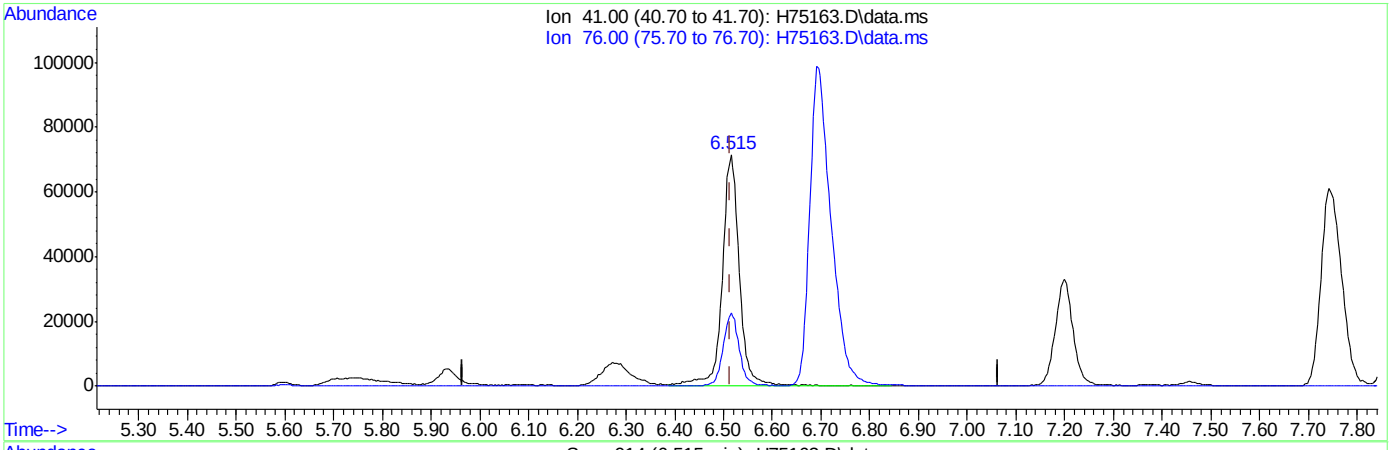
response 16123

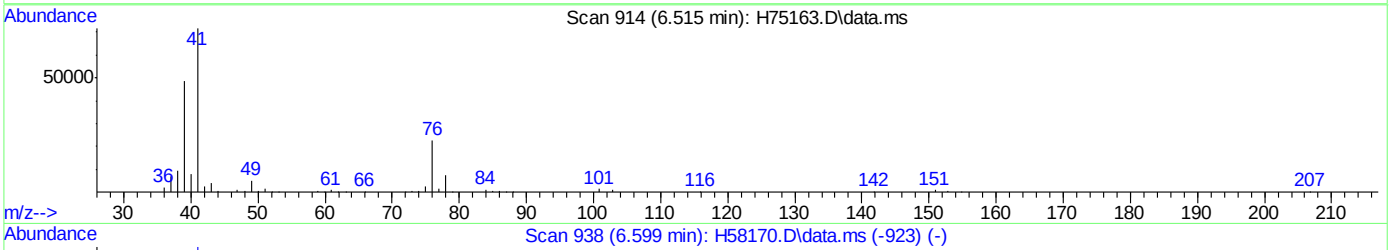
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.41
0.00	0.00	0.00
0.00	0.00	0.00

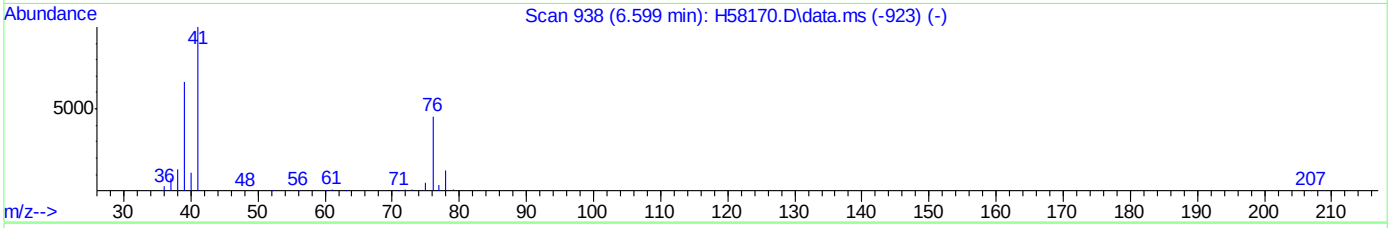
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 43.14ug/L

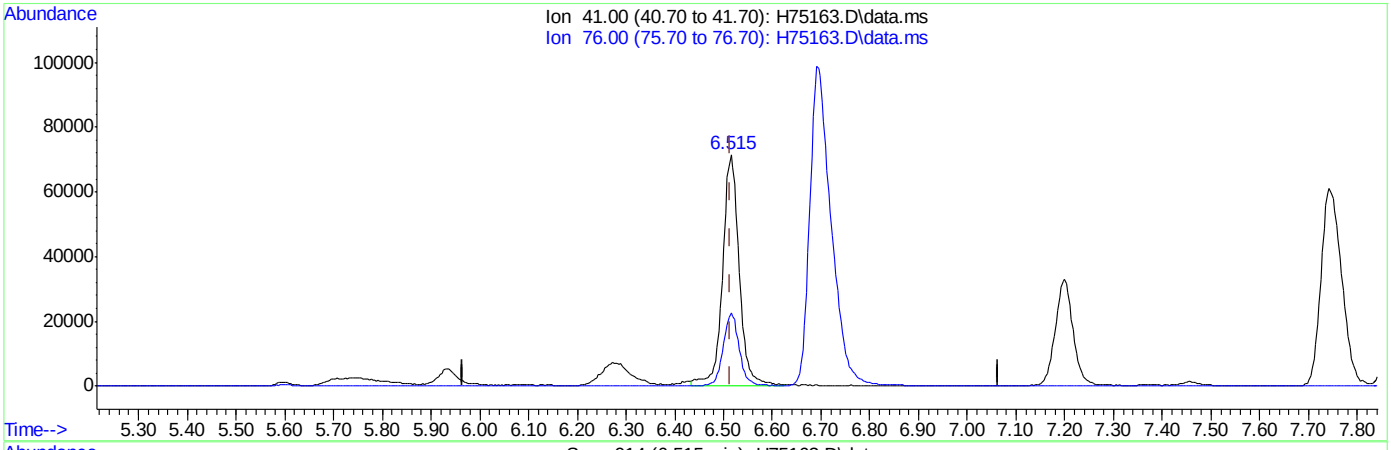
response 175084

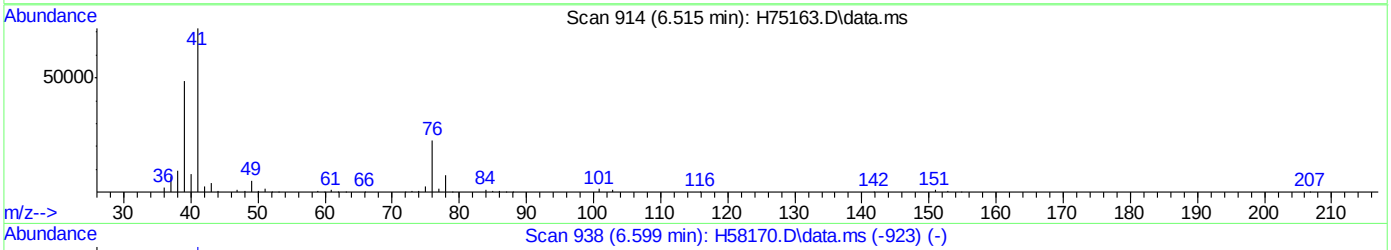
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

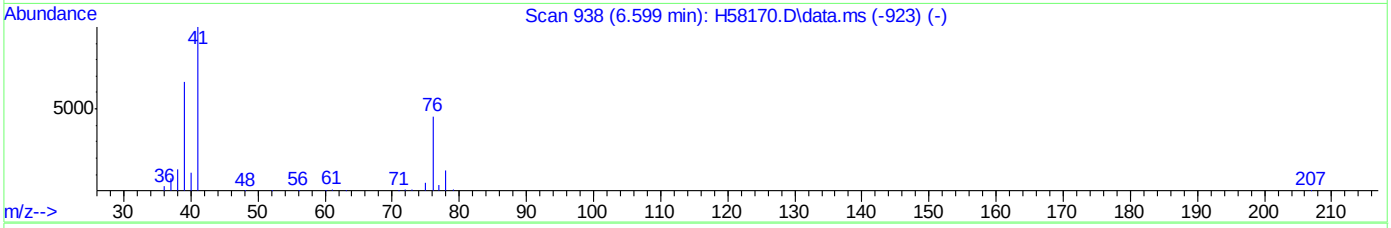
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 41.64ug/L m

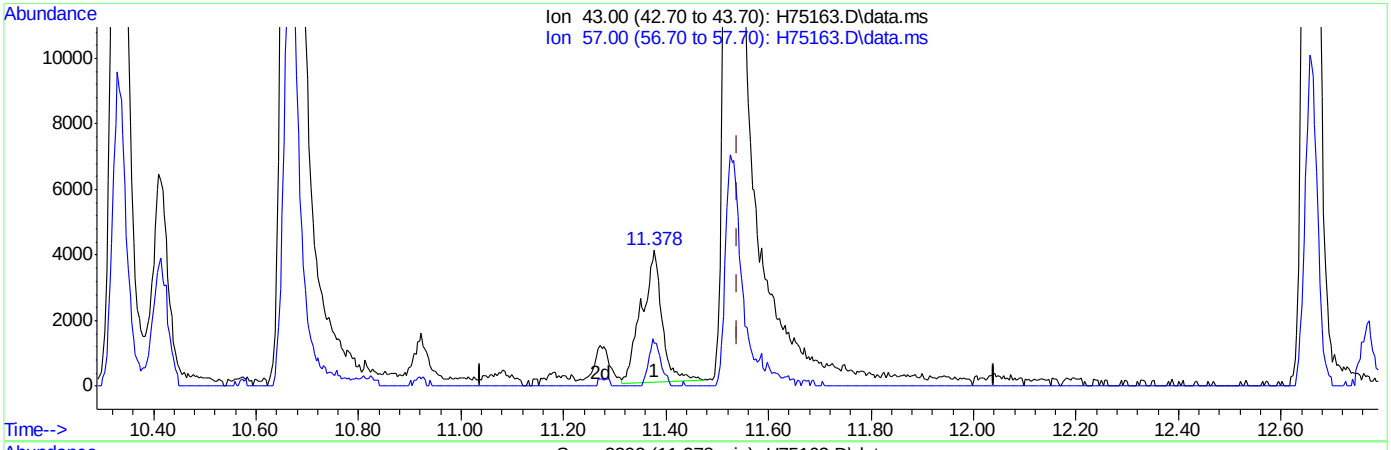
response 169021

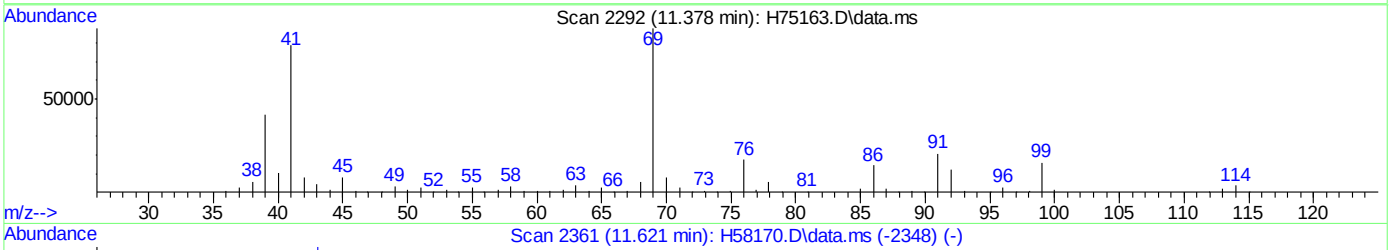
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	31.73
0.00	0.00	0.00
0.00	0.00	0.00

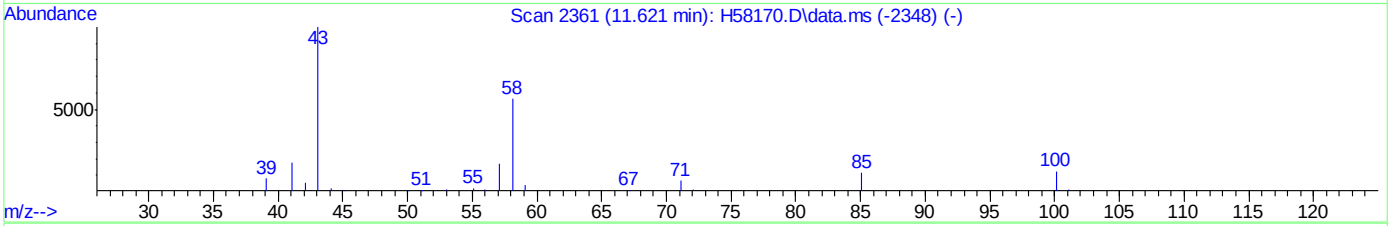
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.378min (-0.162) 6.29ug/L

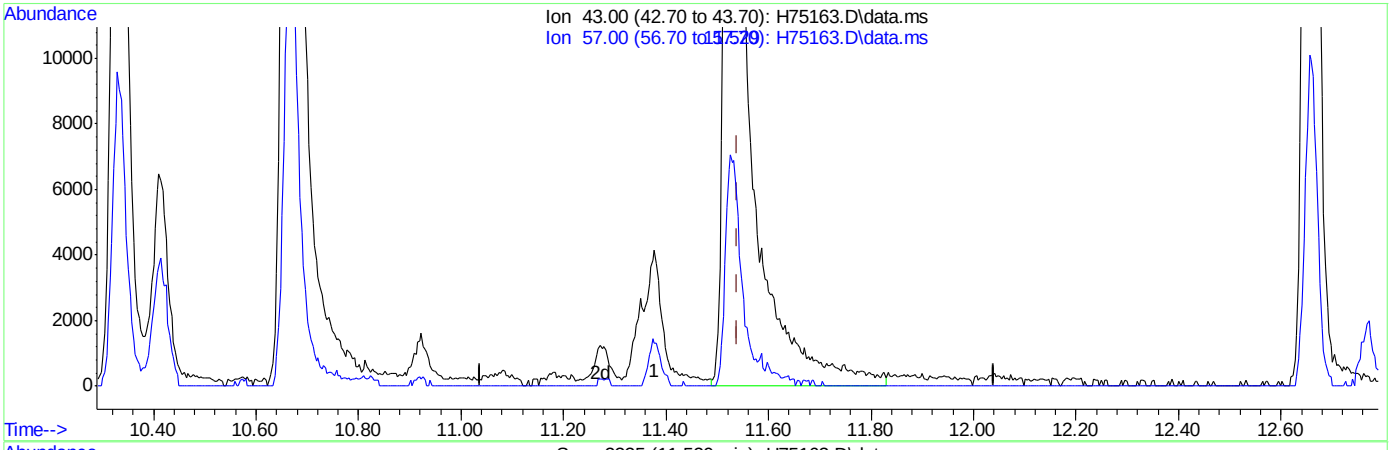
response 11100

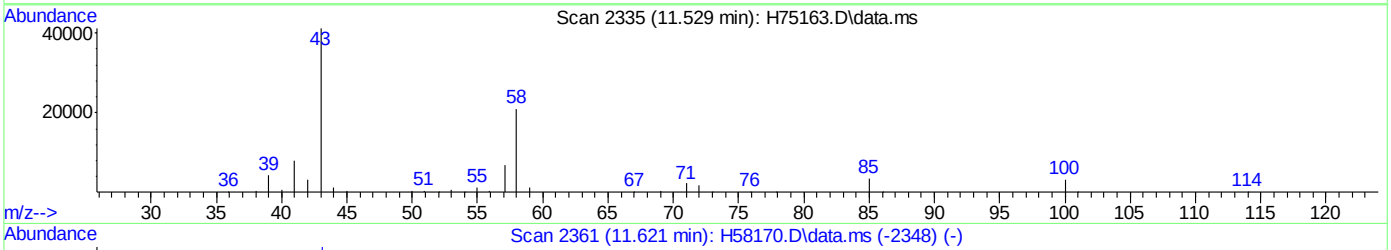
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	21.07
0.00	0.00	0.00
0.00	0.00	0.00

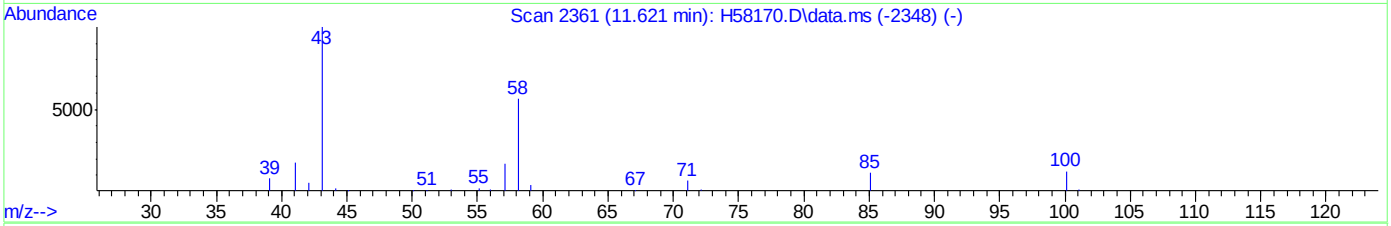
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35288,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 11:11:03 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Mon Sep 28 11:09:50 2015
Response via : Initial Calibration







TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.529min (-0.010) 59.07ug/L m

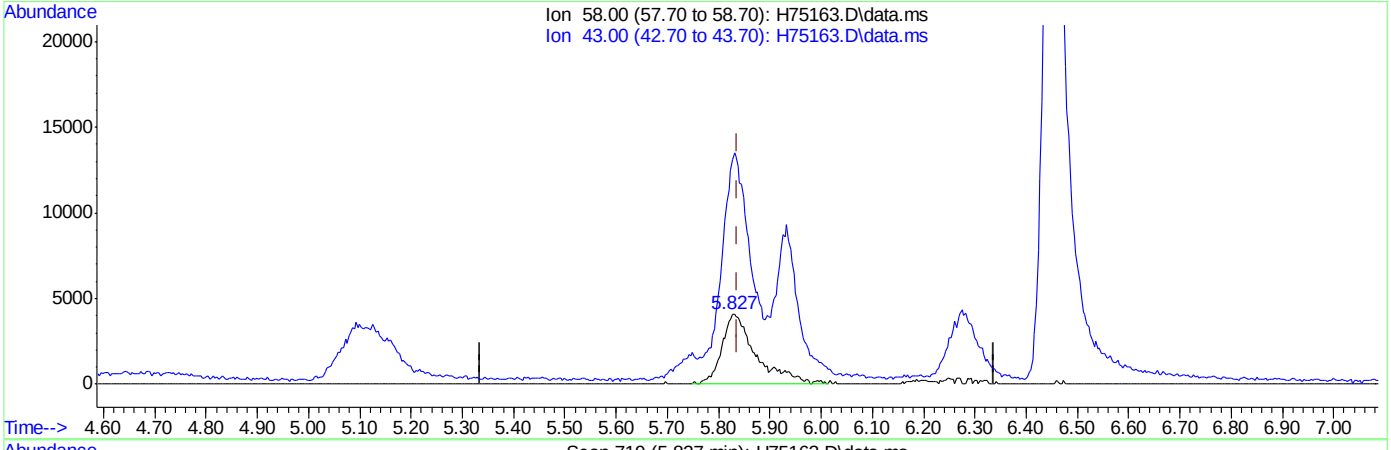
response 104156

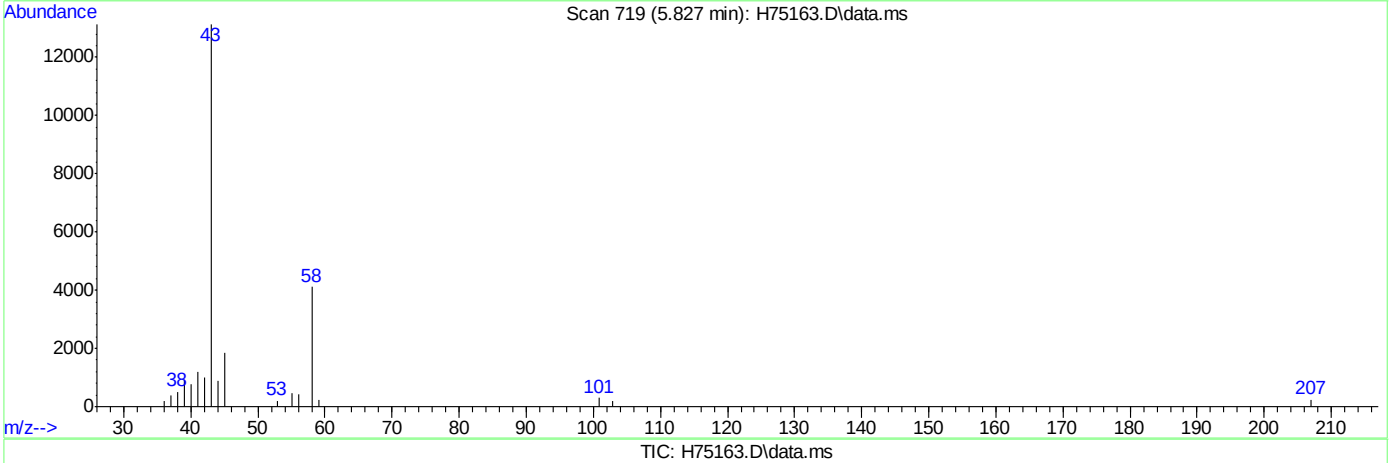
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	2.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 78.37ug/L

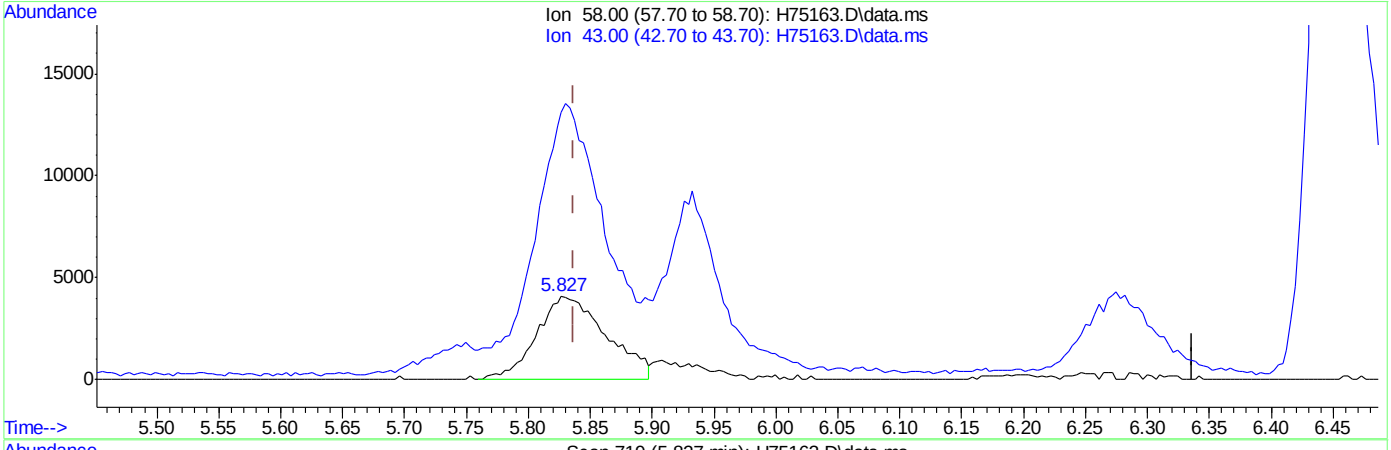
response 19075

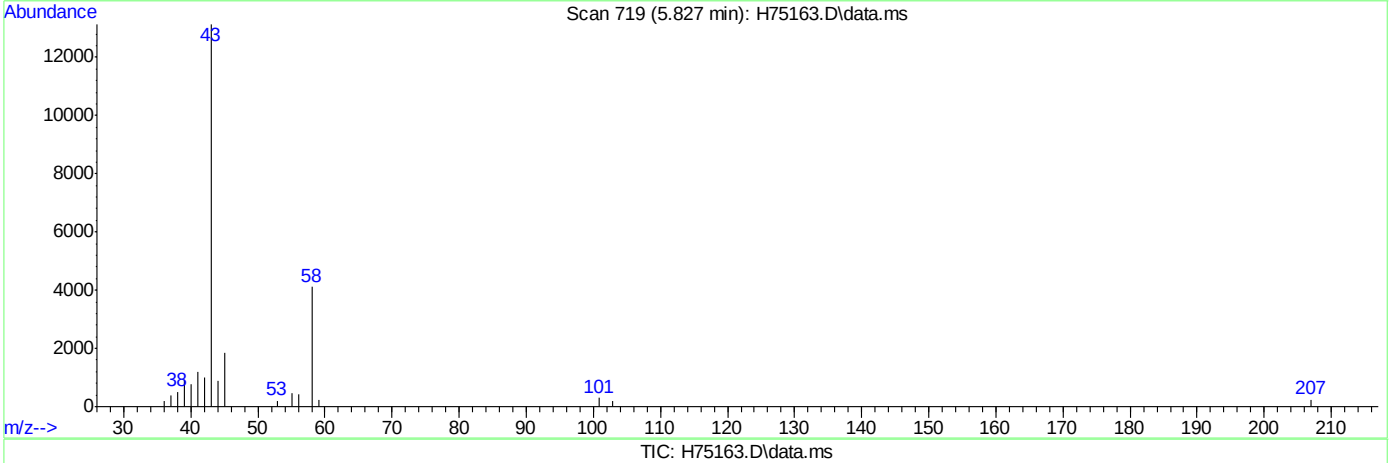
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	298.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





TIC: H75163.D\data.ms

(15) acetone (p)

5.827min (-0.010) 66.23ug/L m

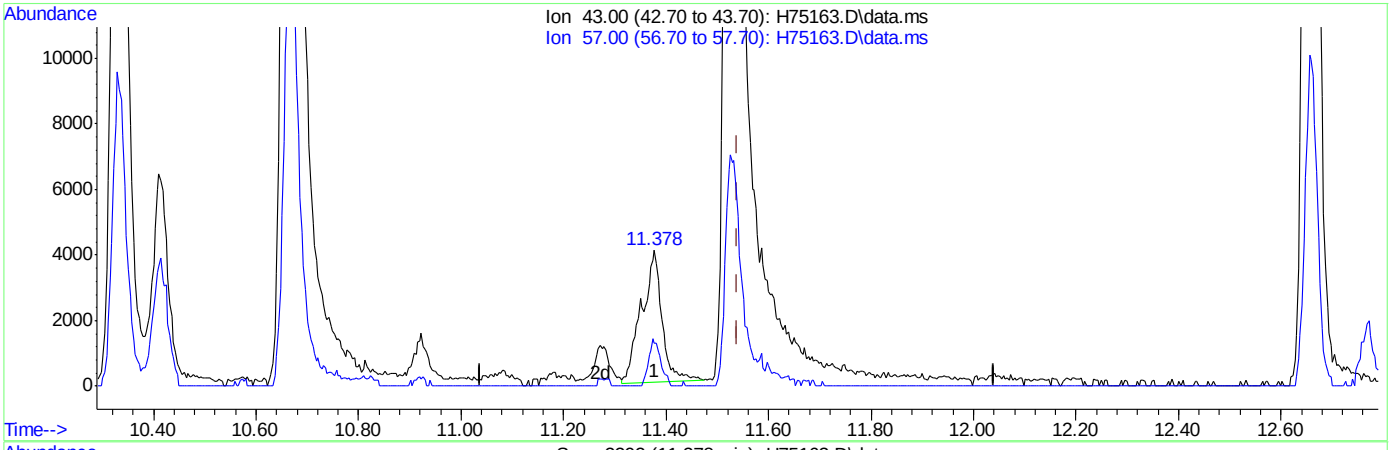
response 16121

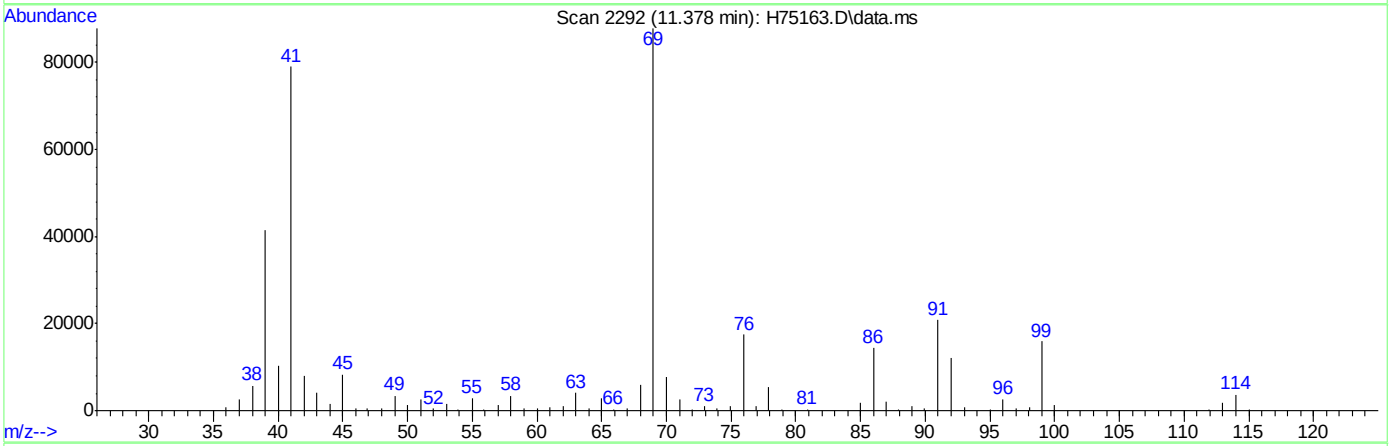
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	319.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





TIC: H75163.D\data.ms

(71) 2-hexanone (p)

11.378min (-0.162) 6.29ug/L

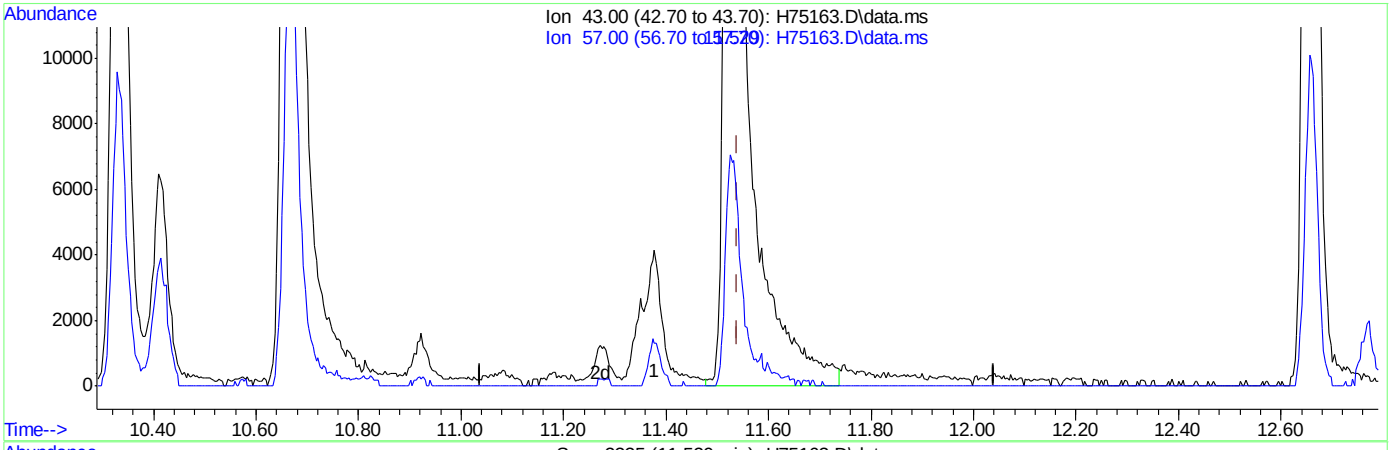
response 11100

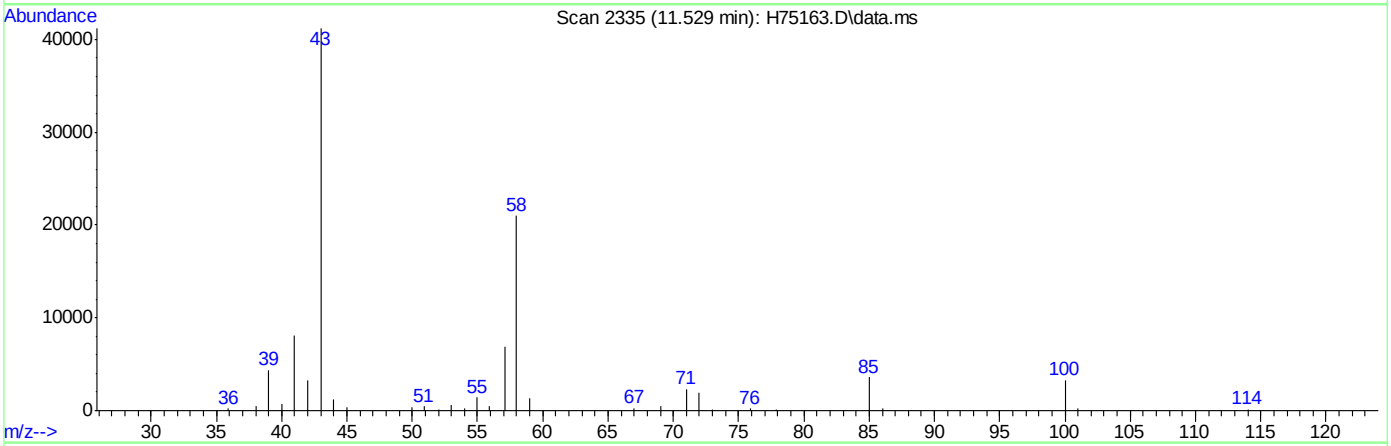
Ion	Exp%	Act%
43.00	100	100
57.00	18.40	21.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H150925\
Data File : H75163.D
Acq On : 25 Sep 2015 8:41 pm
Operator : kaylap
Sample : icv2500-50
Misc : ms35302,msh2500,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 13:13:43 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 13:12:14 2015
Response via : Initial Calibration





(71) 2-hexanone (p)

11.529min (-0.010) 57.85ug/L m

response 102002

Ion	Exp%	Act%
43.00	100	100
57.00	18.40	2.29
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/08/15 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:02:27 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.194	65	79166	500.00	ug/L	0.00
4) pentafluorobenzene	8.611	168	172453	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.479	114	274118	50.00	ug/L	0.00
66) chlorobenzene-d5	12.733	82	170268	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.298	152	152953	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.248	113	90699	52.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.02%			
60) toluene-d8 (s)	11.272	98	338396	50.89	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.78%			
82) bromofluorobenzene (s)	13.964	95	146575	48.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.76%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.275	59	90365	494.25	ug/L	95
3) Ethanol	5.114	45	123395	5120.95	ug/L	100
5) dichlorodifluoromethane	4.024	85	94688	51.00	ug/L	97
6) chloromethane	4.271	50	84590	52.27	ug/L	98
7) vinyl chloride	4.497	62	88922	49.43	ug/L	98
8) bromomethane	4.955	96	56514	52.85	ug/L	99
9) chloroethane	5.107	64	52353	47.68	ug/L	99
11) trichlorofluoromethane	5.696	101	119015	44.18	ug/L	99
12) freon-113	6.459	101	79735	46.64	ug/L	90
13) acrolein	5.693	56	21364	276.18	ug/L	100
14) 1,1-dichloroethene	6.271	96	69049	46.62	ug/L	79
15) acetone	5.837	58	11150m	60.80	ug/L	
16) ethyl ether	5.936	59	74712	50.53	ug/L	84
17) methyl acetate	6.451	43	86943m	51.62	ug/L	
18) methylene chloride	6.451	84	91390	48.78	ug/L #	77
19) methyl tert butyl ether	7.200	73	235626	51.17	ug/L	89
20) acrylonitrile	6.331	53	38084	56.23	ug/L	98
21) allyl chloride	6.515	41	150131m	49.09	ug/L	
22) trans-1,2-dichloroethene	7.104	96	77697	47.09	ug/L	83
23) iodomethane	6.360	142	122108	46.04	ug/L	90
24) carbon disulfide	6.691	76	247502	45.71	ug/L	97
25) propionitrile	7.369	54	13102	52.77	ug/L	100
26) vinyl acetate	7.457	43	188687	58.09	ug/L	94
27) chloroprene	7.718	53	139397	48.88	ug/L	98
28) di-isopropyl ether	7.761	45	320336	52.69	ug/L	91
29) methacrylonitrile	7.870	41	60001	51.36	ug/L	94
30) 2-butanone	7.768	72	11963	57.86	ug/L #	85
31) 1,1-dichloroethane	7.355	63	163995	48.58	ug/L	96
32) tert-butyl ethyl ether	8.156	59	296440	52.43	ug/L	90
33) Hexane	7.743	41	154169	49.69	ug/L	87
34) isobutyl alcohol	8.156	43	41027	275.76	ug/L #	72
35) 2,2-dichloropropane	8.209	77	128865	51.87	ug/L	96
36) cis-1,2-dichloroethene	7.923	96	88780	48.93	ug/L	86
37) ethyl acetate	8.156	43	39925	53.19	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:02:27 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) bromochloromethane	8.089	128	43607	49.26 ug/L #	50
39) chloroform	8.128	83	161598	49.81 ug/L	99
41) 1,1,1-trichloroethane	8.876	97	128979	49.94 ug/L	91
43) cyclohexane	9.158	56	146136	44.98 ug/L #	78
44) carbon tetrachloride	9.239	117	109198	50.84 ug/L	96
45) 1,1-dichloropropene	9.052	75	111137	46.92 ug/L	93
46) benzene	9.271	78	335581	48.15 ug/L	99
47) tetrahydrofuran	8.456	42	28861	49.72 ug/L	90
48) 1,2-dichloroethane	8.777	62	128982	49.61 ug/L	99
49) tert-amyl methyl ether	9.402	73	243436	51.38 ug/L	91
50) heptane	9.761	43	119615	48.75 ug/L	91
51) trichloroethene	9.896	95	87519	47.92 ug/L	81
52) 1,2-dichloropropane	9.860	63	94606	48.87 ug/L	97
53) dibromomethane	9.836	93	59608	51.36 ug/L	92
54) bromodichloromethane	9.948	83	121953	52.49 ug/L	96
55) methylcyclohexane	10.411	83	138962	46.85 ug/L	85
56) 2-chloroethyl vinyl ether	10.330	63	59470	47.53 ug/L	88
57) methyl methacrylate	10.054	69	63362	52.29 ug/L	92
58) 1,4-dioxane	10.061	88	3905	235.95 ug/L	99
59) cis-1,3-dichloropropene	10.570	75	142766	55.04 ug/L	91
61) 4-methyl-2-pentanone	10.665	43	99005	50.38 ug/L	93
62) toluene	11.346	92	207827	48.82 ug/L	97
63) trans-1,3-dichloropropene	10.993	75	137458	52.36 ug/L	97
64) 1,1,2-trichloroethane	11.162	83	73293	51.73 ug/L	92
65) ethyl methacrylate	11.374	69	121919	52.56 ug/L	89
67) tetrachloroethene	12.087	166	91607	45.12 ug/L	94
68) 1,3-dichloropropane	11.395	76	144257	47.31 ug/L	98
69) dibromochloromethane	11.685	129	89311	44.47 ug/L	99
70) 1,2-dibromoethane	11.935	107	85838	47.80 ug/L	93
71) 2-hexanone	11.526	43	74632	50.65 ug/L	93
72) chlorobenzene	12.768	112	245645	45.46 ug/L	90
73) 1,1,1,2-tetrachloroethane	12.687	131	81910	49.00 ug/L	95
74) ethylbenzene	12.944	91	411415	47.46 ug/L	98
75) m,p-xylene	13.131	106	318025	97.78 ug/L	99
76) o-xylene	13.544	106	161987	48.54 ug/L	98
77) styrene	13.470	104	258252	46.01 ug/L	96
78) bromoform	13.290	173	56907	50.30 ug/L	99
79) trans-1,4-dichloro-2-b...	13.700	53	33754	51.65 ug/L	98
81) isopropylbenzene	13.908	105	400851	45.14 ug/L	99
83) bromobenzene	14.190	156	107940	43.97 ug/L #	81
84) 1,1,2,2-tetrachloroethane	13.544	83	109863	50.74 ug/L	96
85) 1,2,3-trichloropropane	13.696	75	123615	50.27 ug/L	97
86) n-propylbenzene	14.352	91	471782	45.04 ug/L	93
87) 2-chlorotoluene	14.469	91	285844	45.63 ug/L	88
88) 4-chlorotoluene	14.547	91	303457	46.04 ug/L	91
89) 1,3,5-trimethylbenzene	14.635	105	334857	47.99 ug/L	99
90) tert-butylbenzene	14.938	91	197568	46.45 ug/L	90
91) 1,2,4-trimethylbenzene	15.044	105	342734	48.96 ug/L	100
92) sec-butylbenzene	15.161	105	421156	46.56 ug/L	99
93) 1,3-dichlorobenzene	15.259	146	197154	47.47 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:02:27 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

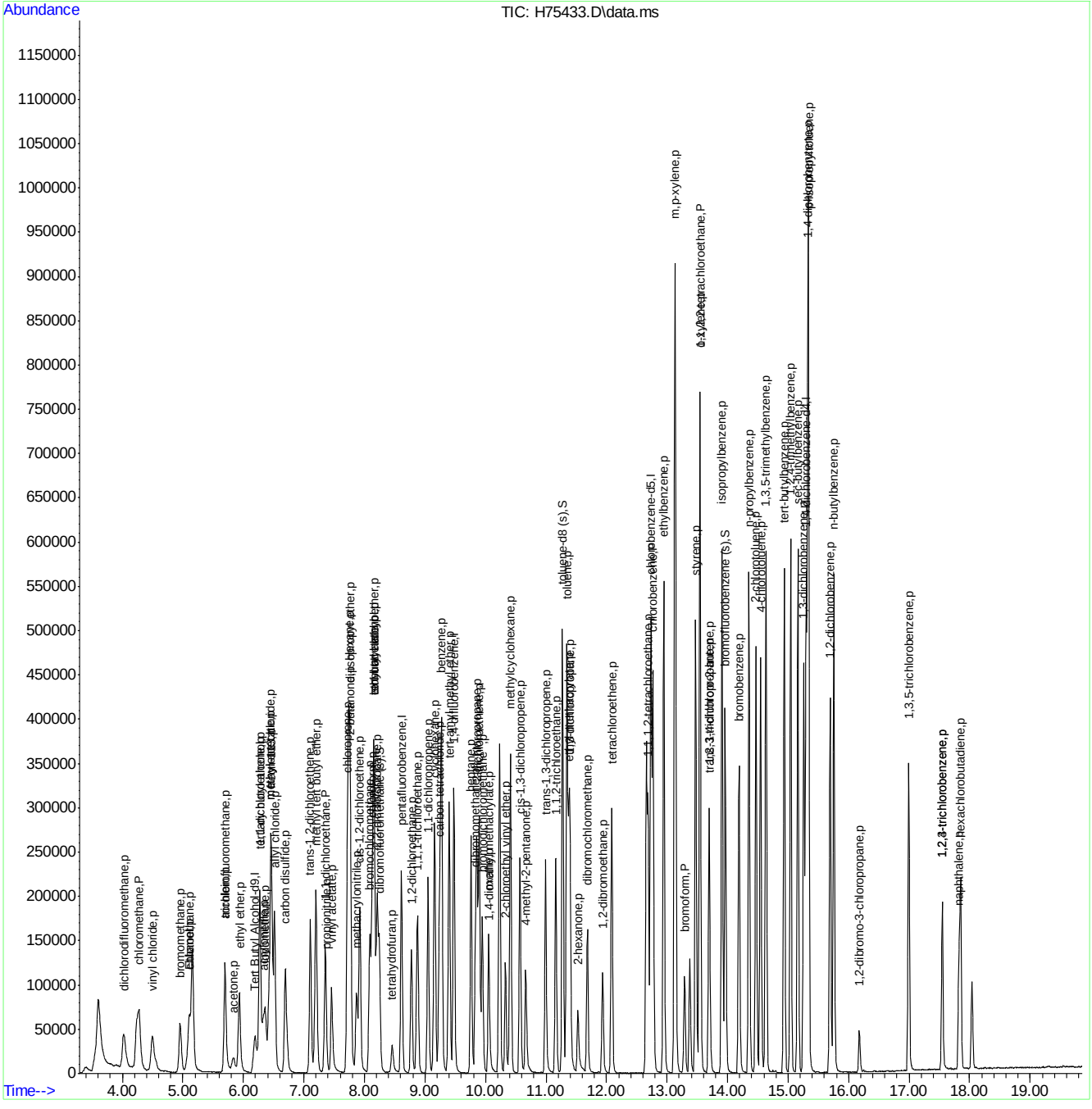
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) p-isopropyltoluene	15.337	119	357695	47.03 ug/L	97
95) 1,4-dichlorobenzene	15.326	146	215096	47.47 ug/L	99
96) 1,2-dichlorobenzene	15.697	146	188223	49.90 ug/L	99
97) n-butylbenzene	15.757	91	334786	49.66 ug/L	91
98) 1,2-dibromo-3-chloropr...	16.177	75	13030	60.50 ug/L	83
99) 1,3,5-trichlorobenzene	16.992	180	119449	51.55 ug/L	95
100) 1,2,4-trichlorobenzene	17.550	180	68838	59.07 ug/L	97
101) hexachlorobutadiene	17.853	225	44218	50.44 ug/L	95
102) naphthalene	17.825	128	111786	65.04 ug/L	100
103) 1,2,3-trichlorobenzene	17.550	180	68838	59.07 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

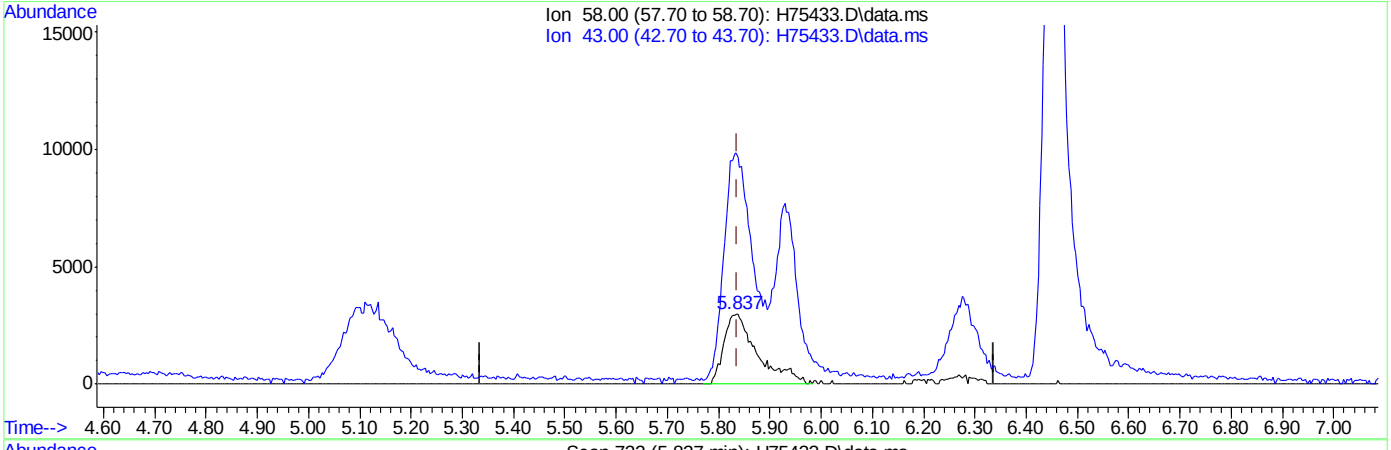
Quant Time: Oct 07 11:02:27 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

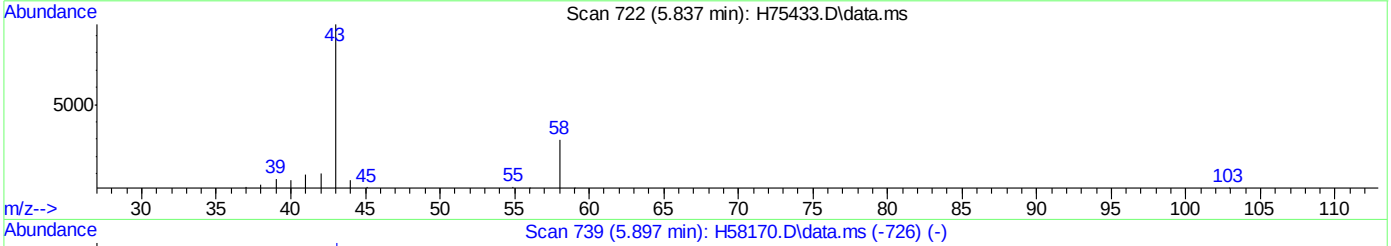


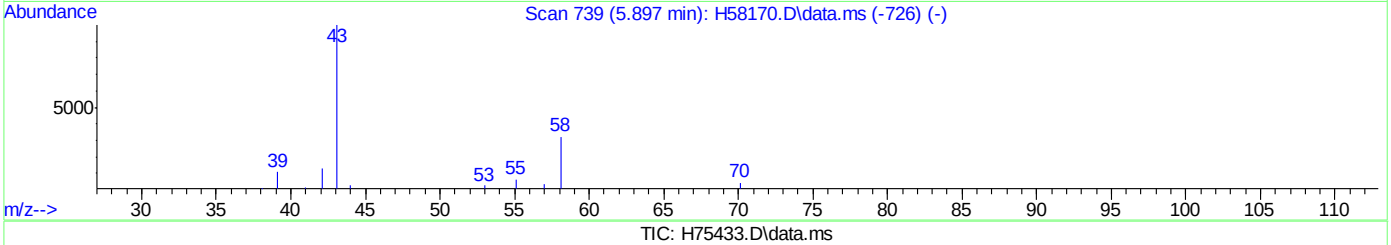
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(15) acetone (p)

5.837min (+0.000) 74.46ug/L

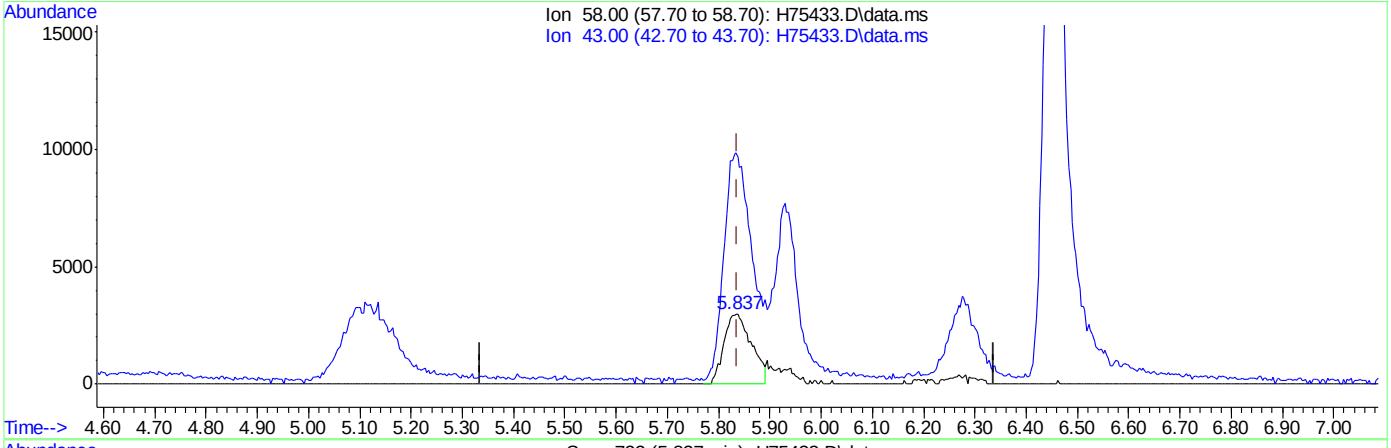
response 13656

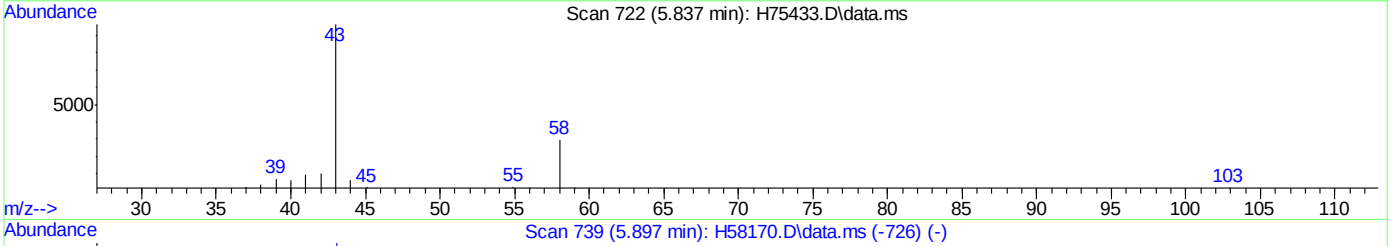
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	318.70
0.00	0.00	0.00
0.00	0.00	0.00

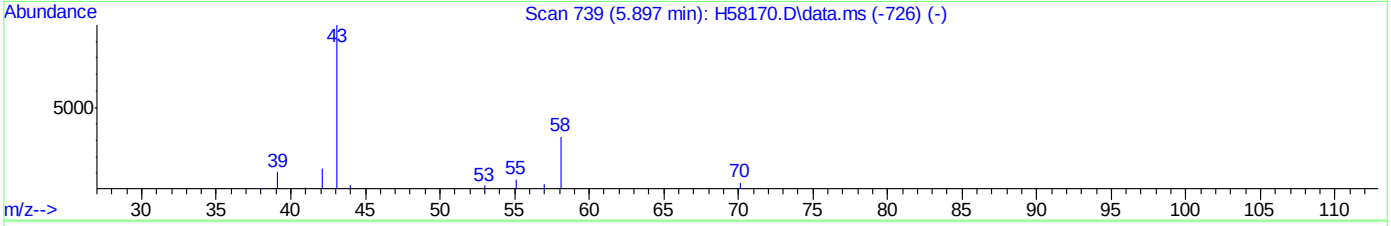
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(15) acetone (p)

5.837min (+0.000) 60.80ug/L m

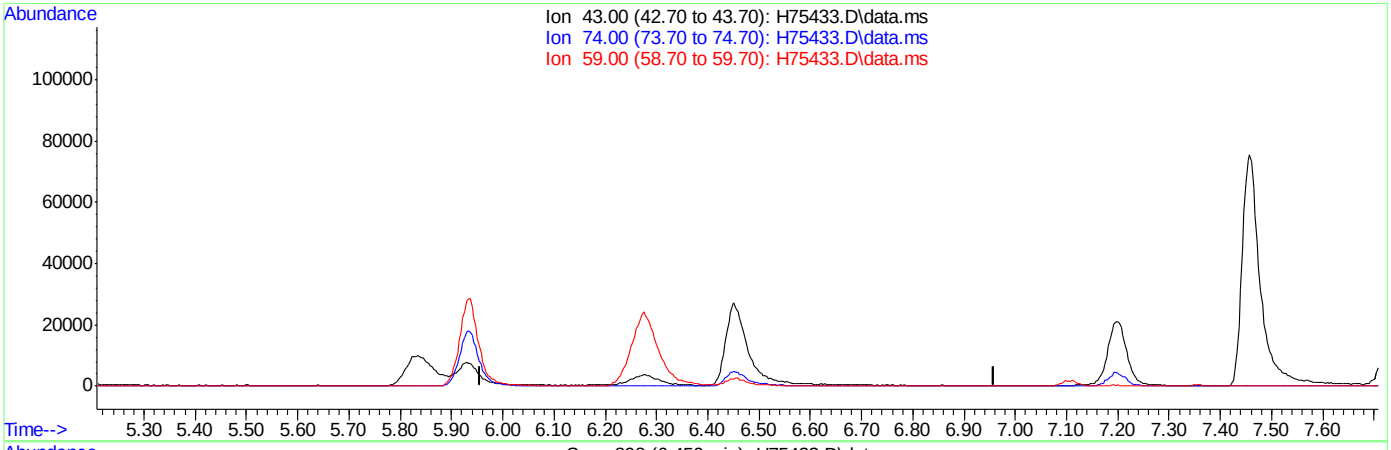
response 11150

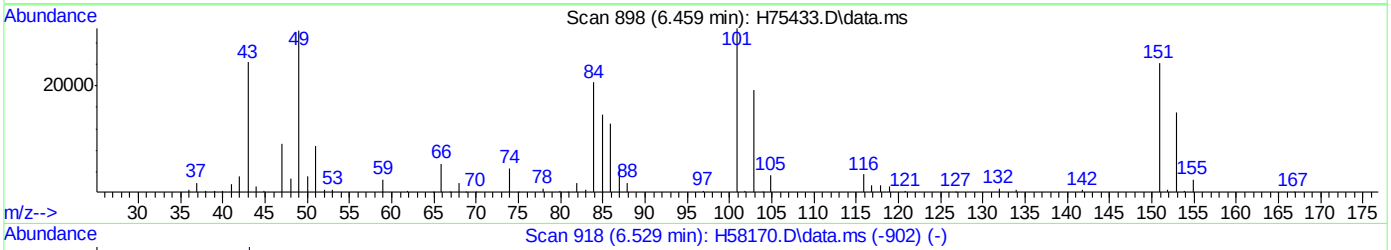
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	324.08
0.00	0.00	0.00
0.00	0.00	0.00

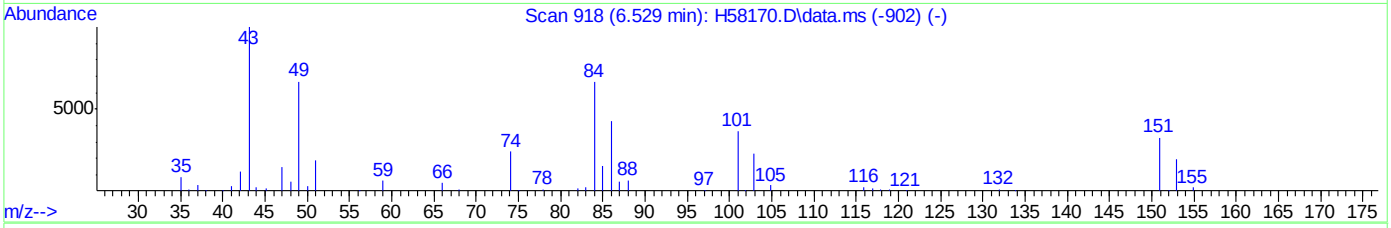
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(17) methyl acetate (p)

6.458min (-6.458) 0.00ug/L

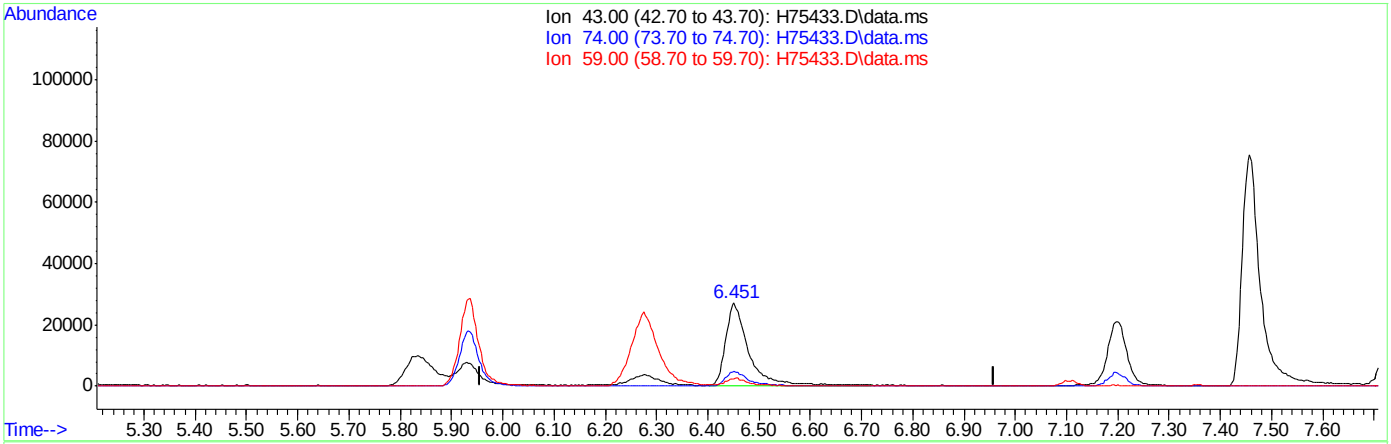
response 0

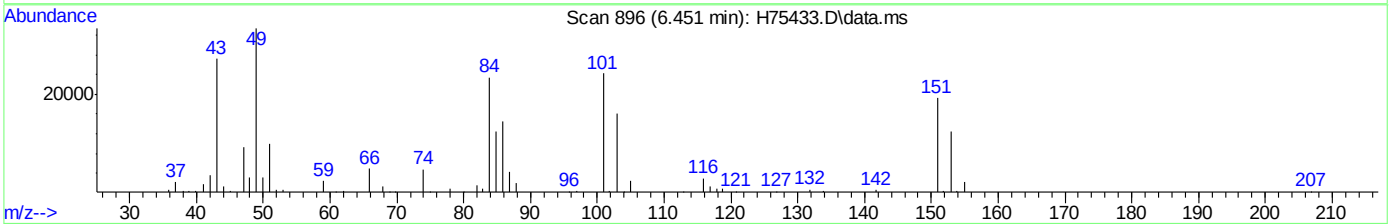
Ion	Exp%	Act%
43.00	100	0.00
74.00	25.40	0.00#
59.00	13.30	0.00
0.00	0.00	0.00

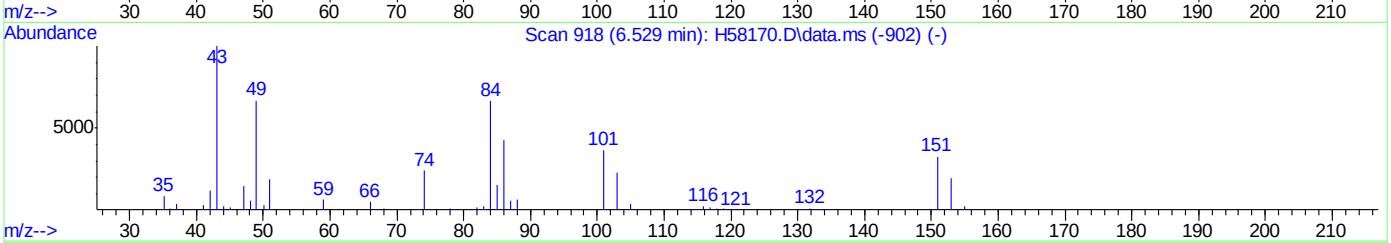
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(17) methyl acetate (p)

6.451min (-0.007) 51.62ug/L m

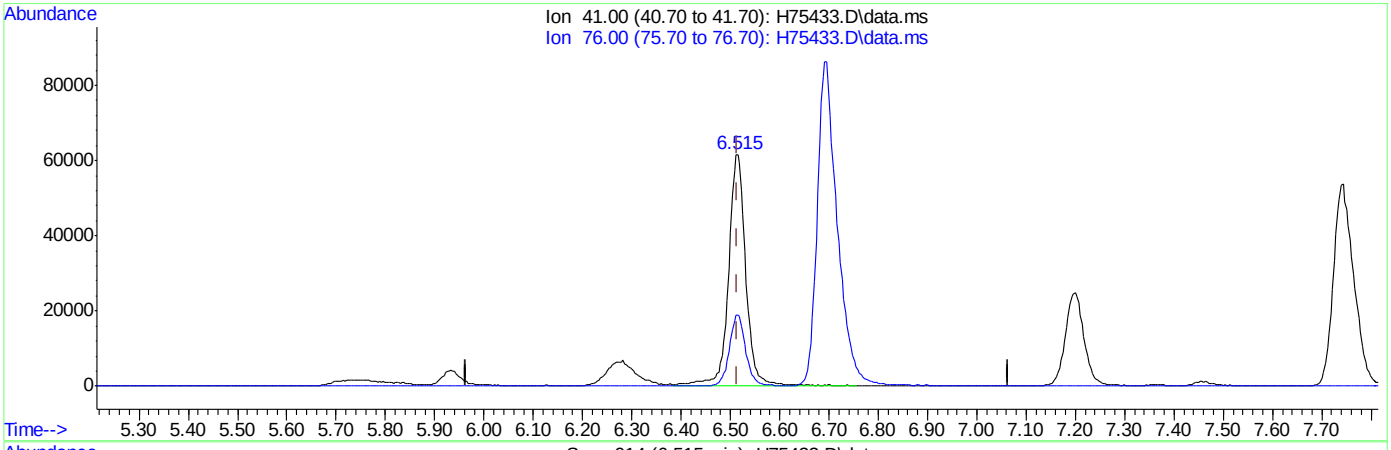
response 86943

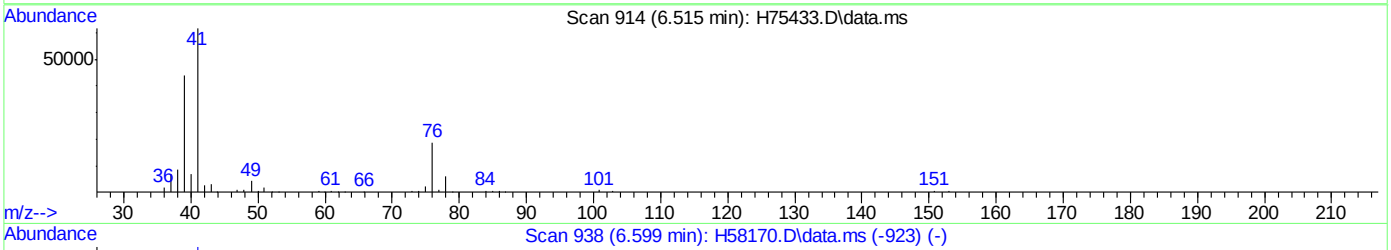
Ion	Exp%	Act%
43.00	100	100
74.00	25.40	17.72
59.00	13.30	8.69
0.00	0.00	0.00

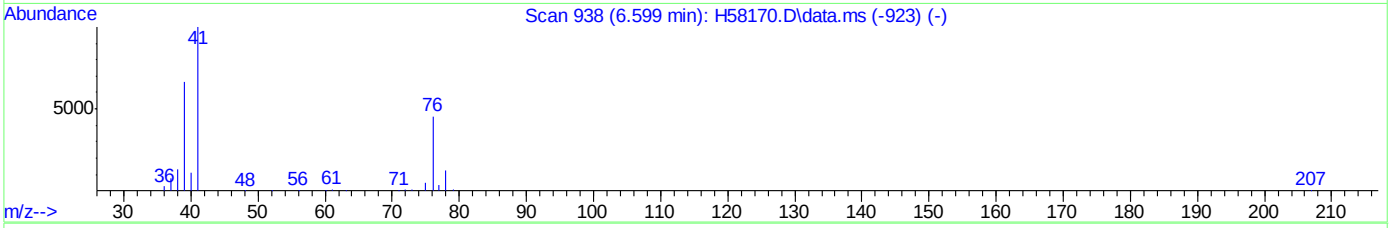
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 49.65ug/L

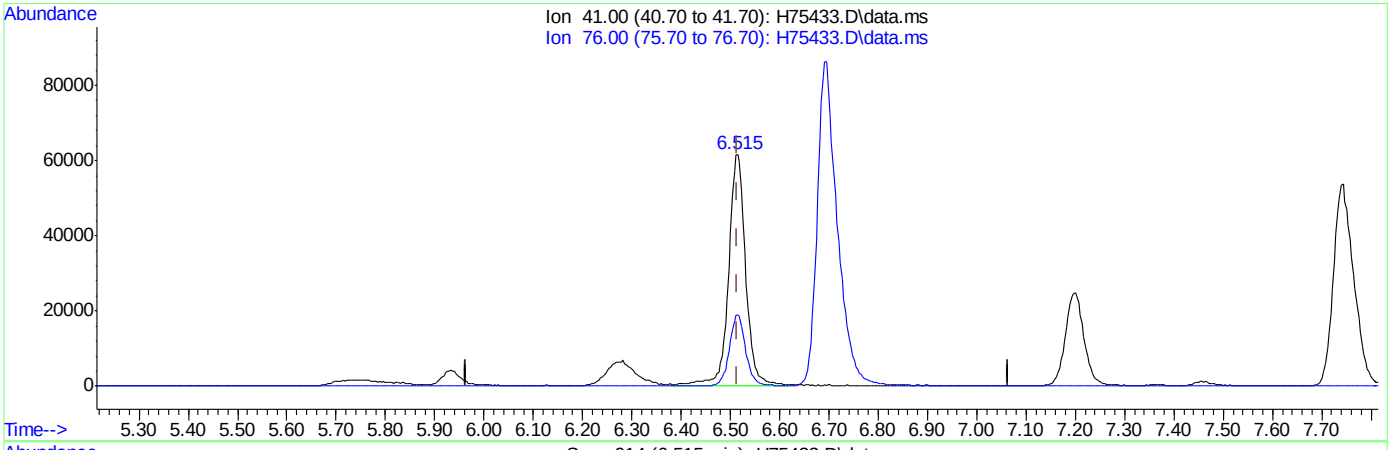
response 151829

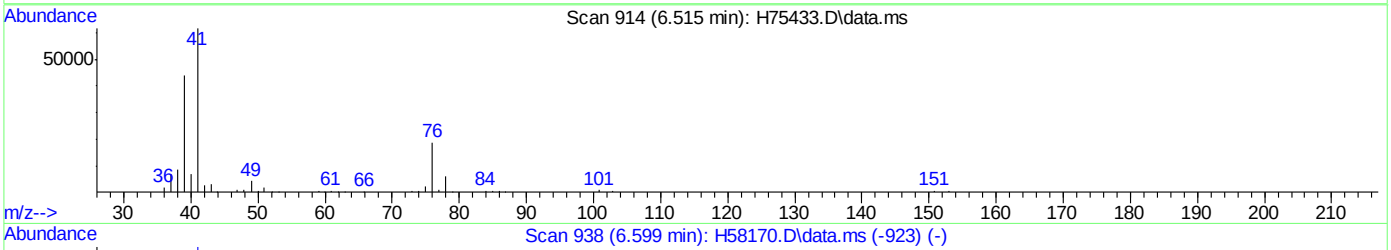
Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.67
0.00	0.00	0.00
0.00	0.00	0.00

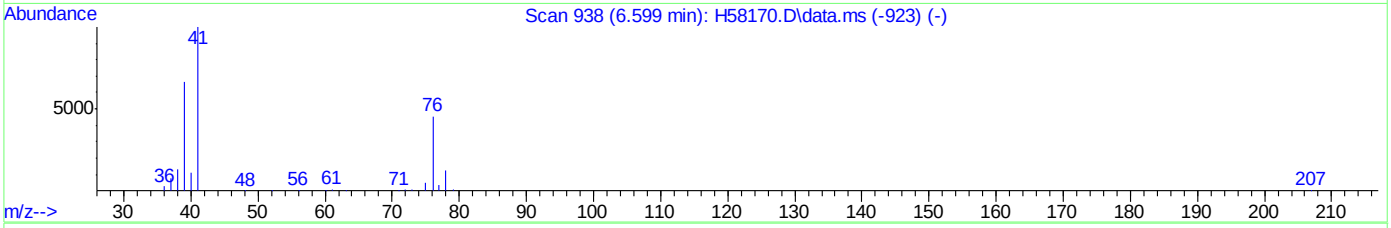
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75433.D
Acq On : 7 Oct 2015 10:39 am
Operator : kaylap
Sample : cc2500-50
Misc : ms35377,msh2511,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 11:01:53 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75433.D\data.ms

(21) allyl chloride (p)

6.515min (+0.000) 49.09ug/L m

response 150131

Ion	Exp%	Act%
41.00	100	100
76.00	37.80	30.67
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
10/08/15 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75457.D
Acq On : 7 Oct 2015 9:16 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 08 09:04:18 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.191	65	71201	500.00	ug/L	0.00
4) pentafluorobenzene	8.612	168	162515	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.480	114	263321	50.00	ug/L	0.00
66) chlorobenzene-d5	12.734	82	156593	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.299	152	142792	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.249	113	87433	53.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.40%			
60) toluene-d8 (s)	11.276	98	307633	48.16	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 96.32%			
82) bromofluorobenzene (s)	13.962	95	139429	49.29	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.58%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.276	59	76516	465.32	ug/L	98
3) Ethanol	5.104	45	118429	5458.57	ug/L	99
5) dichlorodifluoromethane	4.028	85	96537	55.21	ug/L	99
6) chloromethane	4.268	50	80024	52.49	ug/L	98
7) vinyl chloride	4.494	62	87812	51.87	ug/L	97
8) bromomethane	4.956	96	50100	49.67	ug/L	100
9) chloroethane	5.108	64	49099	47.45	ug/L	96
11) trichlorofluoromethane	5.694	101	119263	46.97	ug/L	99
12) freon-113	6.463	101	65068	40.38	ug/L	90
13) acrolein	5.697	56	22992	315.40	ug/L	92
14) 1,1-dichloroethene	6.272	96	60025	43.00	ug/L #	75
15) acetone	5.831	58	9318m	53.92	ug/L	
16) ethyl ether	5.934	59	67696	48.59	ug/L	85
17) methyl acetate	6.452	43	77237	48.66	ug/L	86
18) methylene chloride	6.456	84	82941	46.97	ug/L #	75
19) methyl tert butyl ether	7.201	73	210658	48.55	ug/L	89
20) acrylonitrile	6.332	53	33726	52.84	ug/L	96
21) allyl chloride	6.512	41	136627	47.41	ug/L	86
22) trans-1,2-dichloroethene	7.109	96	69672	44.80	ug/L	82
23) iodomethane	6.361	142	110106	44.05	ug/L	93
24) carbon disulfide	6.692	76	213123	41.77	ug/L	98
25) propionitrile	7.370	54	10461	45.47	ug/L	100
26) vinyl acetate	7.458	43	95478	31.19	ug/L	92
27) chloroprene	7.719	53	119495	44.46	ug/L	100
28) di-isopropyl ether	7.762	45	289582	50.55	ug/L	90
29) methacrylonitrile	7.867	41	51590	46.86	ug/L	94
30) 2-butanone	7.772	72	10348	53.11	ug/L #	94
31) 1,1-dichloroethane	7.356	63	150249	47.23	ug/L	94
32) tert-butyl ethyl ether	8.160	59	266408	50.00	ug/L	91
33) Hexane	7.740	41	130104	44.50	ug/L	90
34) isobutyl alcohol	8.157	43	35985	255.29	ug/L	79
35) 2,2-dichloropropane	8.213	77	99489	42.49	ug/L	95
36) cis-1,2-dichloroethene	7.924	96	81120	47.44	ug/L	84
37) ethyl acetate	8.157	43	38270	54.17	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75457.D
Acq On : 7 Oct 2015 9:16 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 08 09:04:18 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	bromochloromethane	8.090	128	40261	48.26	ug/L	#	53
39)	chloroform	8.129	83	148248	48.49	ug/L		98
41)	1,1,1-trichloroethane	8.877	97	111306	45.74	ug/L		91
43)	cyclohexane	9.159	56	121123	38.81	ug/L	#	76
44)	carbon tetrachloride	9.240	117	91773	44.48	ug/L		94
45)	1,1-dichloropropene	9.053	75	94759	41.64	ug/L		95
46)	benzene	9.275	78	301600	45.05	ug/L		98
47)	tetrahydrofuran	8.457	42	24866	44.59	ug/L		92
48)	1,2-dichloroethane	8.778	62	118710	47.53	ug/L		99
49)	tert-amyl methyl ether	9.399	73	214998	47.24	ug/L		90
50)	heptane	9.762	43	91063	38.64	ug/L		91
51)	trichloroethene	9.897	95	83856	47.80	ug/L		81
52)	1,2-dichloropropane	9.858	63	84526	45.45	ug/L		94
53)	dibromomethane	9.837	93	53891	48.34	ug/L		92
54)	bromodichloromethane	9.949	83	111769	50.08	ug/L		98
55)	methylcyclohexane	10.415	83	114835	40.30	ug/L		86
56)	2-chloroethyl vinyl ether	10.331	63	46223	38.46	ug/L		87
57)	methyl methacrylate	10.052	69	51600	44.33	ug/L		92
58)	1,4-dioxane	10.055	88	3836	240.60	ug/L		89
59)	cis-1,3-dichloropropene	10.571	75	122770	49.27	ug/L		88
61)	4-methyl-2-pentanone	10.662	43	85904	45.50	ug/L		91
62)	toluene	11.347	92	174651	42.71	ug/L		97
63)	trans-1,3-dichloropropene	10.994	75	116161	46.18	ug/L		99
64)	1,1,2-trichloroethane	11.160	83	62605	46.00	ug/L		90
65)	ethyl methacrylate	11.375	69	103437	46.42	ug/L		91
67)	tetrachloroethene	12.088	166	74899	40.12	ug/L		92
68)	1,3-dichloropropane	11.396	76	124464	44.39	ug/L		98
69)	dibromochloromethane	11.686	129	78790	42.68	ug/L		99
70)	1,2-dibromoethane	11.936	107	74550	45.14	ug/L		96
71)	2-hexanone	11.527	43	65096	48.04	ug/L		94
72)	chlorobenzene	12.765	112	211464	42.55	ug/L		89
73)	1,1,1,2-tetrachloroethane	12.688	131	72417	47.10	ug/L		94
74)	ethylbenzene	12.945	91	349379	43.82	ug/L		97
75)	m,p-xylene	13.132	106	274267	91.69	ug/L		100
76)	o-xylene	13.542	106	139484	45.45	ug/L		98
77)	styrene	13.471	104	224833	43.55	ug/L		97
78)	bromoform	13.291	173	51577	49.61	ug/L		99
79)	trans-1,4-dichloro-2-b...	13.701	53	28809	48.19	ug/L		91
81)	isopropylbenzene	13.905	105	345461	41.67	ug/L		98
83)	bromobenzene	14.188	156	97449	42.53	ug/L		84
84)	1,1,2,2-tetrachloroethane	13.549	83	90727	44.88	ug/L		96
85)	1,2,3-trichloropropane	13.697	75	109958	47.90	ug/L		94
86)	n-propylbenzene	14.353	91	417659	42.71	ug/L		93
87)	2-chlorotoluene	14.470	91	256318	43.83	ug/L		90
88)	4-chlorotoluene	14.544	91	270685	43.99	ug/L		89
89)	1,3,5-trimethylbenzene	14.636	105	296531	45.52	ug/L		99
90)	tert-butylbenzene	14.936	91	172640	43.48	ug/L		89
91)	1,2,4-trimethylbenzene	15.042	105	304462	46.58	ug/L		98
92)	sec-butylbenzene	15.162	105	374759	44.38	ug/L		99
93)	1,3-dichlorobenzene	15.260	146	175751	45.33	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75457.D
Acq On : 7 Oct 2015 9:16 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 08 09:04:18 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) p-isopropyltoluene	15.338	119	320502	45.14 ug/L	97
95) 1,4-dichlorobenzene	15.327	146	189772	44.86 ug/L	98
96) 1,2-dichlorobenzene	15.694	146	167664	47.61 ug/L	100
97) n-butylbenzene	15.758	91	292819	46.53 ug/L	91
98) 1,2-dibromo-3-chloropr...	16.181	75	10295	51.20 ug/L	90
99) 1,3,5-trichlorobenzene	16.993	180	99985	46.22 ug/L	95
100) 1,2,4-trichlorobenzene	17.547	180	54126	48.75 ug/L	98
101) hexachlorobutadiene	17.850	225	39333	47.61 ug/L	99
102) naphthalene	17.822	128	86506	52.40 ug/L	100
103) 1,2,3-trichlorobenzene	17.547	180	54126	48.75 ug/L	100

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

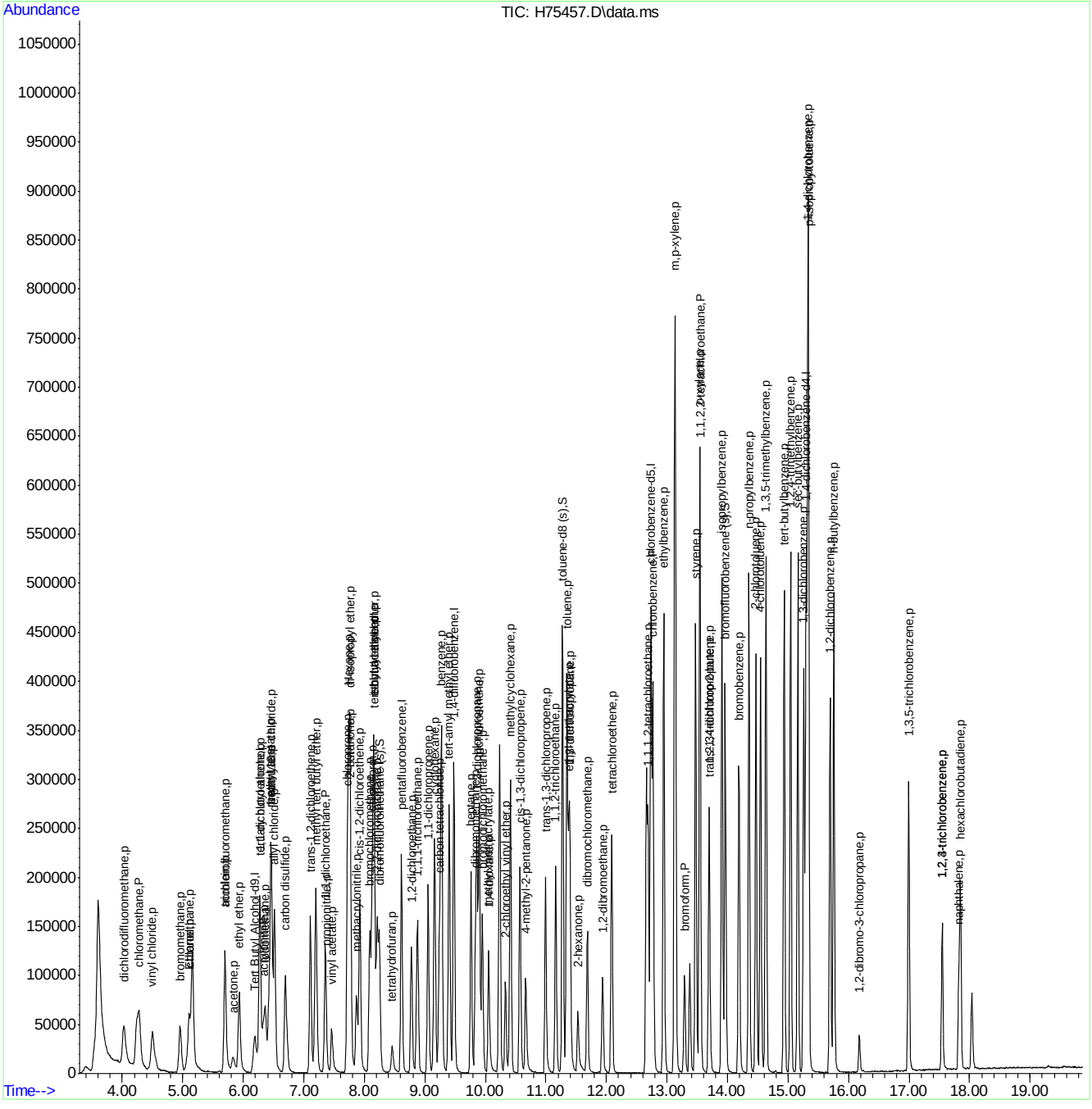
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75457.D
Acq On : 7 Oct 2015 9:16 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 08 09:04:18 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration

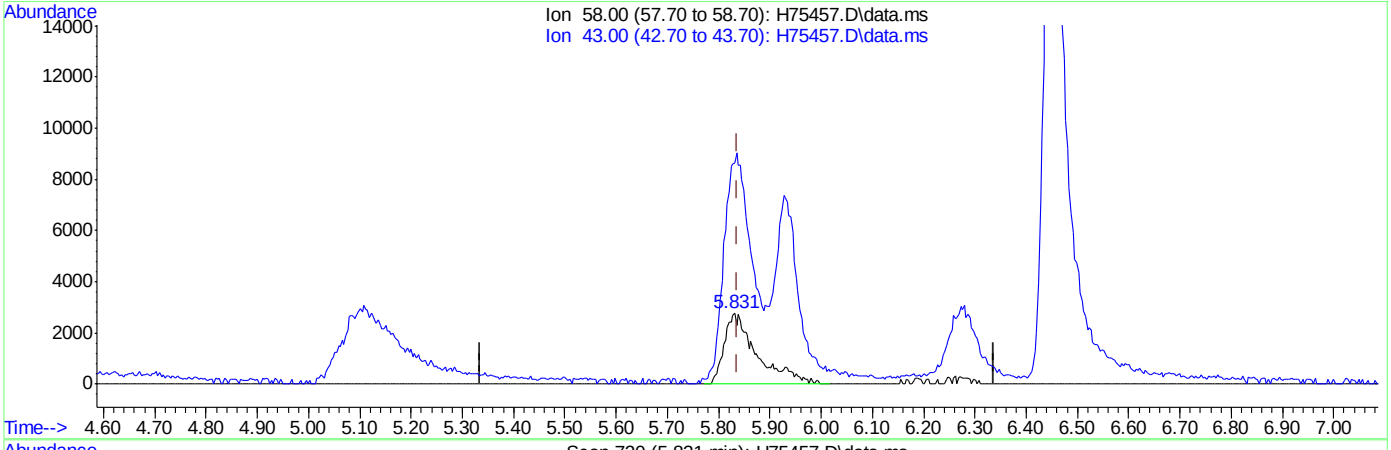


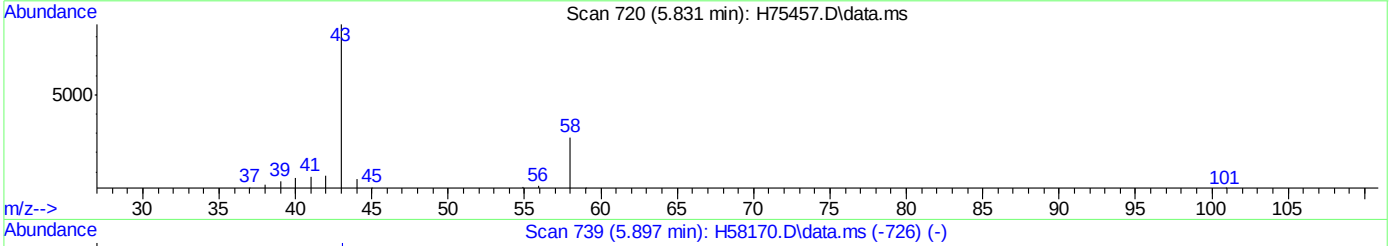
ACCUTEST LABORATORIES MC41757

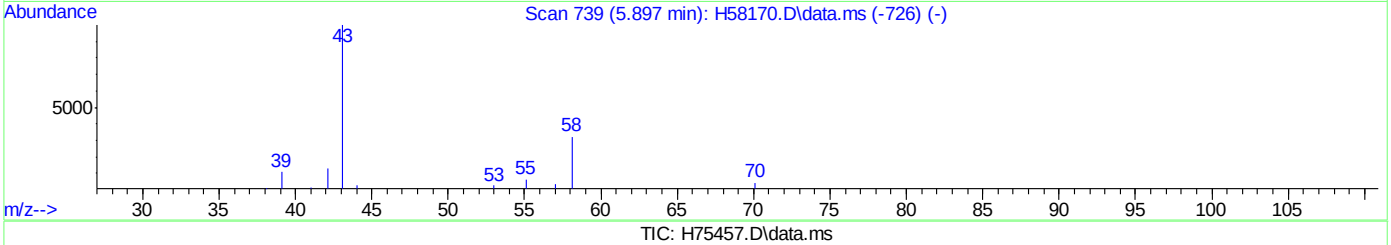
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75457.D
Acq On : 7 Oct 2015 9:16 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 08 09:03:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75457.D\data.ms

(15) acetone (p)

5.831min (-0.006) 70.98ug/L

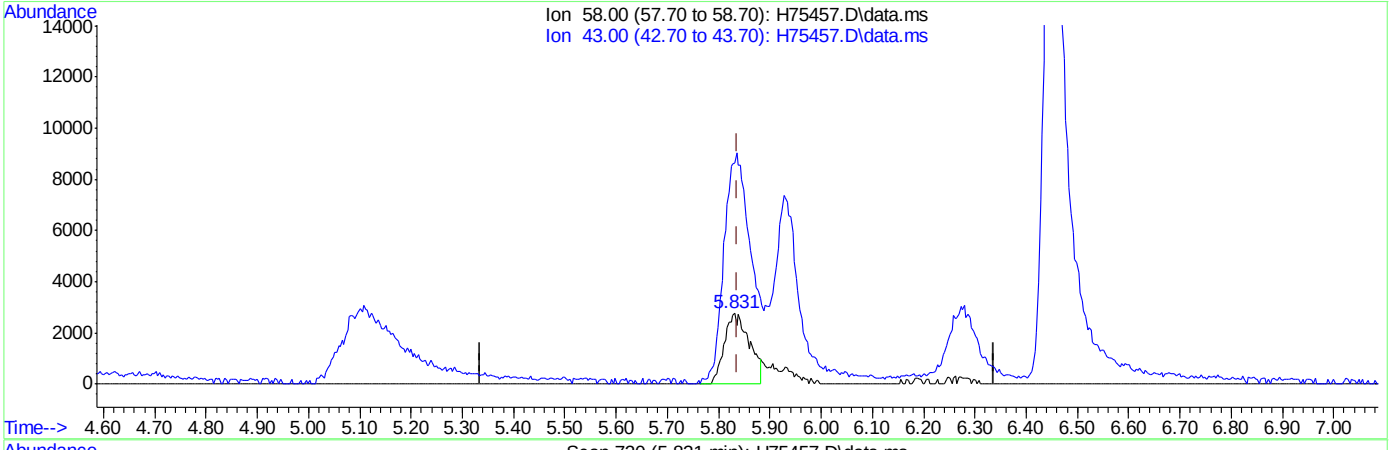
response 12266

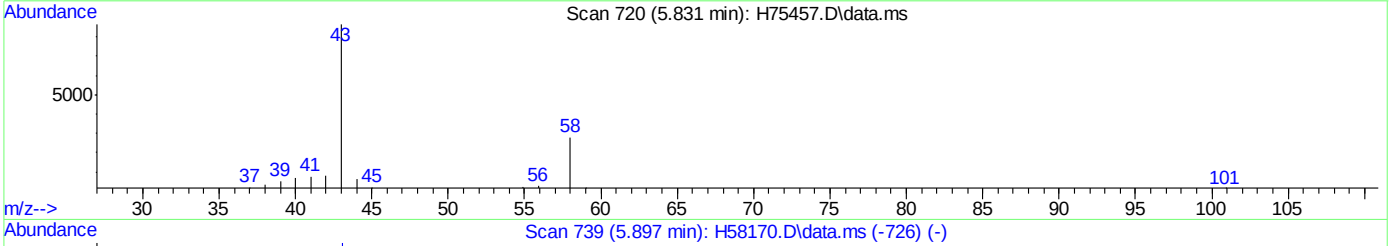
Ion	Exp%	Act%
58.00	100	100
43.00	300.80	304.32
0.00	0.00	0.00
0.00	0.00	0.00

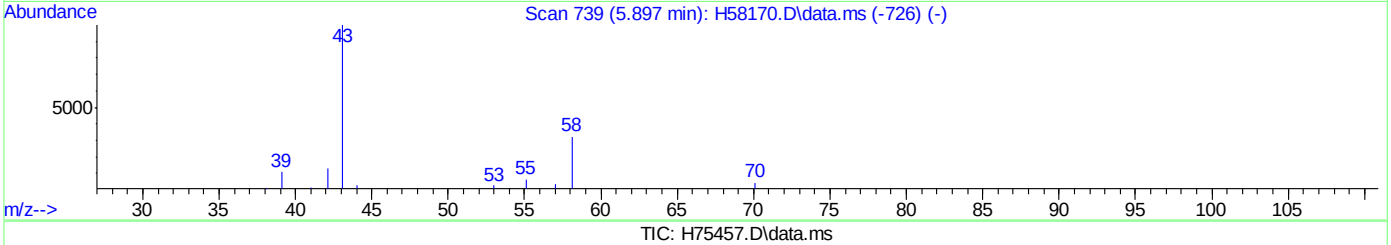
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\H151007\
Data File : H75457.D
Acq On : 7 Oct 2015 9:16 pm
Operator : kaylap
Sample : ecc2500-50
Misc : ms35386,msh2511,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 08 09:03:55 2015
Quant Method : C:\msdchem\1\METHODS\H150925W.M
Quant Title : SW-846 Method 8260
QLast Update : Tue Sep 29 16:08:54 2015
Response via : Initial Calibration







TIC: H75457.D\data.ms

(15) acetone (p)

5.831min (-0.006) 53.92ug/L m

response 9318

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	311.40
0.00	0.00	0.00
0.00	0.00	0.00

Accutest Laboratories of New England, Inc. **Instrument: GCMS H**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS10345	8260 CC	200 ug/mL
338	CC gas	
329	BS	
330	BS gas	
315	IS/SS	250 ug/mL

Daily Saved File

Tune file 1:	H75160
Tune file 2:	NA
Initial Cal:	9/25/15
ID File:	H150925W.H
ICAL Verified:	KP
Sequence verified:	KP

Date: 9/25/15

Batch ID: MSH2500

Analysts KP

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT# exp:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H75149	blank	NA	NA	8260	1	W	5 mL	NA	1:1	NA	
50	↓	↓		curve	2						bfb ✓✓
51	✓ ic2500-0.5	2,2			3						✓✓
52	✓ -1				4						✓✓
53	✓ -2				5						✓✓
54	✓ -5				6						✓✓
55	✓ -10				7						✓✓
56	✓ ↓ -20				8						✓✓
57	✓ icc2500-50				9						✓✓
58	✓ ic2500-100				10						✓✓
59	✓ -200				11						✓✓
60	✓ ↓ -400	↓			12						✓✓
61	blank	NA			13						
62	↓	↓			14						
63	✓ icv	3,2			15						✓✓
64	↓	↓			16						
65	blank	NA			17						
66	↓	↓	↓	↓	18	↓	↓	↓	↓	↓	

9/25/15

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14 **Review:**

Accutest Laboratories of New England, Inc. **Instrument: GCMS H**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
M010345	8260 CC	200 µg/mL
350	CC gas	
357	BS	
330	BS gas	
315	IS/SS	250 µg/mL

Daily Saved File

Tune file 1:	H75433
Tune file 2:	NA
Initial Cal:	9/25/15
ID File:	H150925W.M
ICAL Verified:	KH
Sequence verified:	KP

Date: 10/7/15 DAY

Batch ID: MSH2511

Analysts KP

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT# 235614 exp: 12-30-17

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H75433	CC2500-50	2,1	NA	8260W	1	W	5 mL	NA	1:1	NA	bfb/cc ✓✓
434	BS	2,1			2						✓✓
435	BSD	↓			3						
436	iblank	NA			4						
437	mb	↓	↓	↓	5					↓	✓✓
438	mc41757-5	1 /	MS35386	STD	6					<2	✓✓
439	↓ -6	↓			7						✓✓
440	mc41813-2	3 /			8						✓✓
441	↓ -3	1 /	↓	↓	9				↓		✓✓
442	mc41834-3	↓ /	MS35377	BTXM	10				20X		RR-toluene E
443	mc41844-6	/3	↓	↓	11				200X		not ~~[illegible]~~ needed ~~[illegible]~~ sample E
444	mc41813-1	↓ /	MS35386	STD	12				1:1 /		✓✓
445	mc41876-6	↓ /			13						✓✓
446	↓ -7	4 /			14						✓✓
447	↓ -8	3 /			15						✓✓
448	mc41906-1	4 /		↓	16						✓✓
449	mc41918-1	5 /		RCP	17						✓✓
450	mc41919-1	3 /		↓	18						✓✓
451	mc41757-1	2 /		STD	19						✓✓
452	mc41757-2	1 /			20						✓✓
453	↓ -3	6 /			21						✓✓
454	-4	1 /			22						✓✓
455	-3ms	2,4,5 /			23						✓✓
456	↓ -3msD	↓ /		↓	24						✓✓
457	CC2500-50	2,1		8260W	25				↓		
458	blank	NA			26					NA	
459	↓	↓	↓	↓	27	↓	↓	↓	↓	↓	

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-06 Date: 11/20/14 **Review:**

MCGI

USEPA

Organic

Data Validation Report

Picatinny Arsenal
Route 15, NJ

Accutest Lab SDG's No. MC41694, MC41696, MC41757 & MC41758

MCGI Project No. EA881501-1694-O

Prepared for:

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November 2015

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- ELECTRONIC DATA DELIVERABLE (EDD) with applicable qualifiers, Refer to the EDD Excel file.
- SUPPORT DOCUMENTATION, Refer to the electronic Data Package PDF file.

GLOSSARY OF ACRONYMS & TERMS

GLOSSARY OF ACRONYMS & TERMS

One or more of the following acronyms and terms may have been used in the descriptive process of the **Organic** Data Validation.

Acronyms:

BFB Bromofluorobenzene (volatile instrument performance check)
BNA Base/Neutral/Acid
CARD CLP Analytical Results Database
CCCs Calibration Check Compounds
CCS Contract Compliance Screening
CF Calibration Factor
CLP Contract Laboratory Program
COC Chain of Custody
CRDL Contract Required Detection Limit
CRQL Contract Required Quantitation Limit
CSF Complete SDG File
%D Percent Difference
DAS Delivery of Analytical Services
DCB Decachlorobiphenyl (Pesticide/PCB/ surrogate compound)
DFTPP Decafluorotriphenylphosphine (semivolatile instrument performance check)
DSF Data Summary Form
ECD Electron-Capture Detector
EICP Extended Ion Current Profile
EMSL-LV Environmental Monitoring Support Laboratory - Las Vegas
EPA United States Environmental Protection Agency
GC Gas Chromatography
GC/EC Gas Chromatography/Electron Capture
GC/MS Gas Chromatography/Mass Spectra
GPC Gel Permeation Chromatography (Clean Up)
ICAL Initial Calibration
IS Internal Standard
LCS Laboratory Control Sample
LCL Lower Control Limit
MCL Maximum Contamination Level
MDL Method Detection Limit
MS/MSD Matrix Spike/Matrix Spike Duplicate
m/z The ratio of mass (m) to charge (z) of ions measured by GC/MS
OADS Organic Analysis Data Sheet (Form 1)
ORDA Organic Regional Data Assessment
PCB Poly Chlorinated Biphenyl
PEM Performance Evaluation Mixture
PRP Potential Responsible Party

QA/QC	Quality Assurance/Quality Control
QAPjP	Quality Assurance Project Plan
QC	Quality Control
%R	Percent Recovery of spiked amount
RAS	Routine Analytical Services
RF	Response Factor
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RSD	Relative Standard Deviation
RT	Retention Time
RTW	Retention Time Window
SDG	Sample Delivery Group
SMC	System Monitoring Compound
SMO	Sample Management Office
SOP	Standard Operation Procedures
SOW	Statement of Work
SPCCs	System Performance Check Compounds
SSL	Samples Shipping Log
SVOA	Semivolatile Organic Analyte
TCL	Target Compound List
TCX	Tetrachloro-m-Xylene (Pesticide/PCB surrogate compound)
TIC	Tentatively Identified Compound
TPH	Total Petroleum Hydrocarbons
TR	Traffic Report
UCL	Upper Control Limit
VOA	Volatile Organic Analyte
VTSR	Validated Time of Sample Receipt

Terms:

Associated Samples
Any sample related to a particular QC analysis.

Case A finite, usually predetermined number of samples collected over a given time period for a particular site. A Case consists of one or more Sample Delivery Group(s).

Contract Compliance Screening (CCS)
A process in which the SMO inspects the data for contractual compliance and provides EMSL-LV laboratories and the Regions with their findings.

Contractual Holding Time

The time from VTSR (validated time of sample receipt) to laboratory extraction and /or analysis.

Data Validation Qualifier (DVQ)

This refers to the column on the data summary form in which EPA Region III and other qualifiers have been placed by the data validator.

Data Validation Result (DVR)

This refers to the column on the data summary form used to report results that have been modified by the data validator. A result in the DVR column that is qualified "U" indicates a modification of the reporting limit.

Field Blank Field blanks are intended to identify contaminants that may have been introduced in the field. Examples are rinsate blank (RB), field blanks (FB) and trip blank (TB).

Field Duplicate

A duplicate sample generated in the field; not in the laboratory.

Initial Calibration (ICAL)

The establishment of a calibration curve with the appropriate number of standards and concentration ranges. The calibration curve plots absorbances and/or emissions versus concentration of the standards. .

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Introduction of a known concentration of a compound into a sample to provide information about the effect of sample matrix on the extraction and/or measurement methodology.

Performance Evaluation Mixture

A standard used to verify that the ICAL sequence is stable throughout the GC or GC/MS analyses.

Sample Delivery Group (SDG)

Defined by one of the following, whichever occurs first:

- case of sample
- each twenty field samples in a case or
- each 14-day calendar period during which field samples in a case are received, beginning with the receipt of the first sample in the SDG.

Technical Holding Time

The time from sample collection to laboratory extraction and /or analysis

COMMUNICATION RECORDS

N/A

GLOSSARY OF DATA VALIDATION QUALIFIERS

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION:
(Confidence concerning presence or absence of compounds)

U	=	Not detected above the level of the associated value. The associated value is either the approximate sample quantitation or detection limit.
NO CODE	=	Confirmed identification
U1	=	Not detected substantially above the level reported in laboratory or field blanks.
R	=	Unusable results. Analyte may or may not be present in the sample.
N	=	Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION:
(Can be used for both positive results and sample quantitation limits)

J	=	Analyte present. Reported value may not be accurate or precise (estimated value).
J+	=	Analyte present. Reported value may be biased high. Result is estimated high.
J-	=	Analyte present. Reported value may be biased low. Result is estimated low.
UJ	=	Not detected. Quantitation limit may be inaccurate or imprecise (Estimated).
UJ-	=	Not detected. Quantitation limit is probably higher.

OTHER CODES:

NJ	=	Qualitative identification questionable. Presumptively present at approximate quantity.
Q	=	No analytical result.
X	=	Data not Validated.

DATA VALIDATION REPORT NARRATIVE

MCGI

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DATE: November 3, 2015

SUBJECT: USEPA Organic Data Validation Report
Volatile
Accutest Lab SDG's No. MC41694, MC41696, MC41757 & MC41758
Site: Picatinny Arsenal, Route 15, NJ
MCGI Project No. EA881501-1694-O

FROM: Sherif N. Mina
Meridian Consultant Group, Inc.

TO: Mr. Frank DeSantis
EA Engineering, Science & Technology, Inc.

OVERVIEW

This report consists of four (4) Sample Delivery Groups (SDGs) for a total of thirty-four (34) samples submitted to Accutest Laboratories, Marlborough, MA, for Volatile analysis according to SW-846 Method 8260C. Details about each SDG are listed in separate sections below. The samples were analyzed in accordance with the Chain-of-Custody (COC).

The analytical results were validated according to the pertinent parts of U.S. Environmental Protection Agency (USEPA) National Functional Guideline for Organic Data Review, dated August 2014; along with the Quality Assurance/Quality Control (QA/QC) requirements for the analytical methods used for the analyses.

Deviation from USEPA NFG: The "U" qualifier recommended by USEPA NFG for blank contamination was replaced by the "U1" qualifier to clearly indicate blank contamination on the EDDs.

Calibrations: SW-846 Method 8260C was used for the volatile analysis. For the data validation purpose, a 30% RSD for the initial calibrations & 25% D for the continuing calibrations were used as the QC limits for all compounds of concern, as the basis for qualifying the data.

GENERAL NOTES

- ***Electronic Data Deliverable (EDD):*** Several rows in an electronic data deliverable (EDD) are marked with an "X" and hidden before printing a data summary form. These rows may include quality control samples such as Method Blanks, Laboratory Control Samples, Matrix Spikes, or Matrix Spike Duplicates which are not validated. Additionally, some field sample results may not be used since only one (1) result for each compound is reported after validation. The following list indicates some instances in which an "X" may be placed in the DVQ column:
  1. The compounds in an analysis that have exceeded the instrument calibration range.
  2. All compounds in a diluted analysis that were within the calibration range in the initial analysis.
  3. All compounds in either the initial analysis or re-analysis of a sample, depending on which analysis is not reported on the EDD.

  Although QC samples and some field samples results may not be used, all data were reviewed and considered in the overall assessment.

- ***Data Validation Qualifier (DVQ)*:**This refers to the column on the data summary form in which EPA Region III and other qualifiers have been placed by the data validator.

- ***Data Validation Result (DVR):***This refers to the column on the data summary form used to report results that have been modified by the data validator. A result in the DVR column that is qualified "U" indicates a modification of the reporting limit. Results in the DVR column supersede those reported by the laboratory.

- ***Tentatively Identified Compounds (TICs):*** The TICs, if applicable, were reviewed during data validation.

- ***Compound Quantitation:*** Positive results for compounds which are below the CRQL were qualified as estimated "J" on the EDD.

2-SDG: MC41696

This SDG consisted of seven (7) aqueous samples submitted to Accutest Laboratories, Marlborough, MA, for Volatile analysis according to SW-846 Method 8260C. One (1) field & one (1) trip blanks; and one (1) aqueous field duplicate pair were identified in this sample set. The samples were analyzed in accordance with the Chain-of-Custody (COC), see Sample Identification Summary.

Sample Identification Summary

SAMPLE INFORMATION				Analysis
Field ID	**Lab ID**	**SDG**	**Matrix**	**V**
78MW1	MC41696-1	MC41696	Aqueous	x
DUP 78 092315	MC41696-2		Aqueous	x
78MW3	MC41696-3		Aqueous	x
78MW4	MC41696-4		Aqueous	x
78MW6	MC41696-5		Aqueous	x
FIELD BLANK	MC41696-6		Aqueous	x
TRIP BLANK	MC41696-7		Aqueous	x

V=Volatile

Duplicates: DUP 78 092315/78MW1

SUMMARY

All samples were successfully analyzed for all target compounds according to U.S. Environmental Protection Agency (USEPA) National Functional Guideline for Organic Data Review, dated August 2014; along with the Quality Assurance/Quality Control (QA/QC) requirements for the analytical methods used for the analyses. All instruments and method sensitivities were according to the specified analytical methods, except as noted in the Major Problem section. Refer to Minor Problems for information regarding biases identified during data validation.

Data Validation Summary

	Parameters	V		
		q	t	a
*	Data Completeness		7	0
*	Holding Time		7	0
	Calibrations	x	7	7
*	Laboratory and Field Blanks analyses		7	0
*	Surrogate Recoveries		7	0
	Matrix Spike/Matrix Spike Duplicate	x	7	1
*	Laboratory Control Sample(LCS)		7	0
*	Laboratory and/or Field Duplicates		7	0
*	Internal Standards		7	0
*	Pesticide Instrument Performance		7	0
*	Sample Cleanup		7	0
*	Compound Identification		7	0
*	Compound Quantitation		7	0
*	Sample Preservation		7	0

* All Criteria were met for that Parameter, V=Volatiles

q=qualified; t=total number of samples analyzed; a=number of samples affected

MAJOR PROBLEMS

- None noted.

MINOR PROBLEMS

- ***Calibrations:*** The initial calibration, 9/29/15, failed the %RSD precision criteria, of 30%, for Naphthalene, associated with all samples. No positive results were detected for this compound. Quantitation limits for this compound in the associated samples were qualified "UJ".

  The end continuing calibration verification ECC2500-50,10/5/15, failed the %D precision criteria of 25%, for Dichlorodifluoromethane. Lab sample ID's MC41696-1, -2, -4, -6 & -7 are associated with this calibration. No positive results were detected for this compound. Quantitation limits for this compound in these associated samples were qualified "UJ".

- ***Matrix Spike/Matrix Spike Duplicate (MS/MSD):*** The MS/MSD of sample 78MW1 displayed low recoveries for Styrene. No positive result for this compound in the parent sample was detected. Quantitation limit for this compound in the parent sample was qualified "UJ".

NOTES

- ***Blank Contaminants:*** The maximum concentration of all compounds found in the analyses of the trip, field or laboratory method blanks are listed in the following table. Associated samples with positive results of theses contaminants were qualified "U1" based on the concentration level found in the samples, according to USEPA National Functional Guideline for Organic Data Review, dated August 2014.

Analytical Fraction	**Compound**	Maximum Concentration	Units	Blank Type	Associated Samples
Volatiles	Methylene Chloride*	0.42 J	ug/L	Method Blank	All Samples

*Common lab contaminant

- ***Field Duplicates:*** For the associated aqueous & soil field duplicate pairs, an RPD of 50% was used as the QC limit for results that are at or above the CRQL, no qualification was applied based on the RPD when results are less than CRQL. Whenever a positive result for a compound is detected in one sample but not in the other, regardless of the CRQL, "J" & "UJ" qualifiers were applied to that compound in the field duplicate pair. A table summarizing the RPDs for the associated aqueous field duplicate pair is provided below.

Compound	**78MW1**	**DUP 78 092315**	**RPD**	**Qualifier**
cis-1,2-Dichloroethene	0.88	1	13	

3-SDG: MC41757

This SDG consisted of six (6) aqueous samples submitted to Accutest Laboratories, Marlborough, MA, for Volatile analysis according to SW-846 Method 8260C. One (1) field & one (1) trip blanks; and one (1) aqueous field duplicate pair were identified in this sample set. The samples were analyzed in accordance with the Chain-of-Custody (COC), see Sample Identification Summary.

Sample Identification Summary

SAMPLE INFORMATION				Analysis
Field ID	**Lab ID**	**SDG**	**Matrix**	**V**
78-SW-006	MC41757-1	MC41757	Aqueous	x
78-SW-005	MC41757-2		Aqueous	x
78-SW-004	MC41757-3		Aqueous	x
DUP-RI-SW	MC41757-4		Aqueous	x
FIELD BLANK	MC41757-5		Aqueous	x
TRIP BLANK	MC41757-6		Aqueous	x

V=Volatile

Duplicates: DUP-RI-SW/78-SW-004

SUMMARY

All samples were successfully analyzed for all target compounds according to U.S. Environmental Protection Agency (USEPA) National Functional Guideline for Organic Data Review, dated August 2014; along with the Quality Assurance/Quality Control (QA/QC) requirements for the analytical methods used for the analyses. All instruments and method sensitivities were according to the specified analytical methods, except as noted in the Major Problem section. Refer to Minor Problems for information regarding biases identified during data validation.

Data Validation Summary

Parameters		V		
		q	t	a
*	Data Completeness		6	0
*	Holding Time		6	0
*	Calibrations		6	0
*	Laboratory and Field Blanks analyses		6	0
*	Surrogate Recoveries		6	0
*	Matrix Spike/Matrix Spike Duplicate		6	0
*	Laboratory Control Sample(LCS)		6	0
*	Laboratory and/or Field Duplicates		6	0
*	Internal Standards		6	0
*	Pesticide Instrument Performance		6	0
*	Sample Cleanup		6	0
*	Compound Identification		6	0
*	Compound Quantitation		6	0
*	Sample Preservation		6	0

* All Criteria were met for that Parameter, V=Volatile

q=qualified; t=total number of samples analyzed; a=number of samples affected

MAJOR PROBLEMS

- None noted.

MINOR PROBLEMS

- None noted.

NOTES

- ***Blank Contaminants:*** The maximum concentration of all compounds found in the analyses of the trip, field or laboratory method blanks are listed in the following table. Associated samples with positive results of theses contaminants were qualified "U1" based on the concentration level found in the samples, according to USEPA National Functional Guideline for Organic Data Review, dated August 2014.

Analytical Fraction	**Compound**	Maximum Concentration	Units	Blank Type	Associated Samples
Volatile	None				

*Common lab contaminant

- ***Field Duplicates:*** For the associated aqueous & soil field duplicate pairs, an RPD of 50% was used as the QC limit for results that are at or above the CRQL, no qualification was applied based on the RPD when results are less than CRQL. Whenever a positive result for a compound is detected in one sample but not in the other, regardless of the CRQL, "J" & "UJ" qualifiers were applied to that compound in the field duplicate pair. A table summarizing the RPDs for the associated aqueous field duplicate pair is provided below.

Compound	**78-SW-004**	**DUP-RI-SW**	**RPD**	**Qualifier**
	ND	ND		

Appendix C

Data Trend Plots

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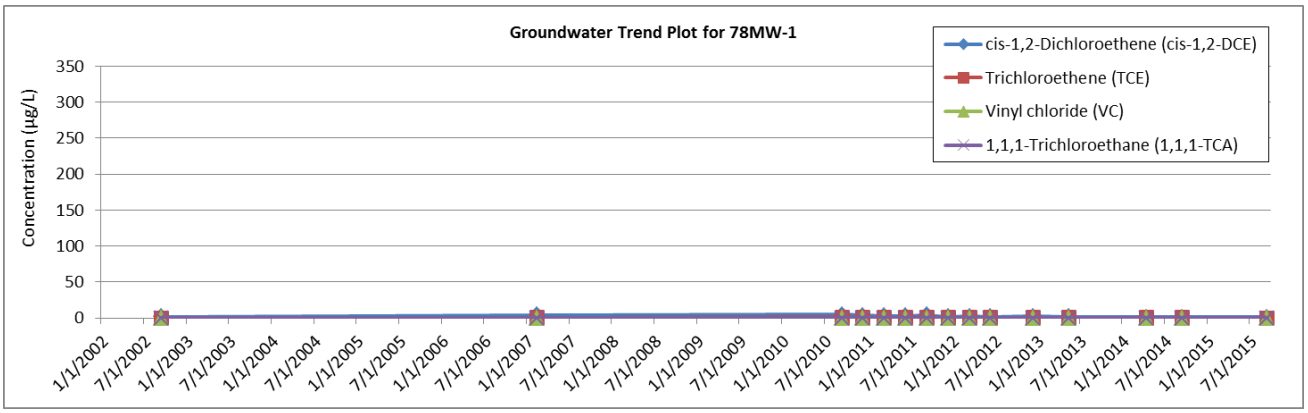
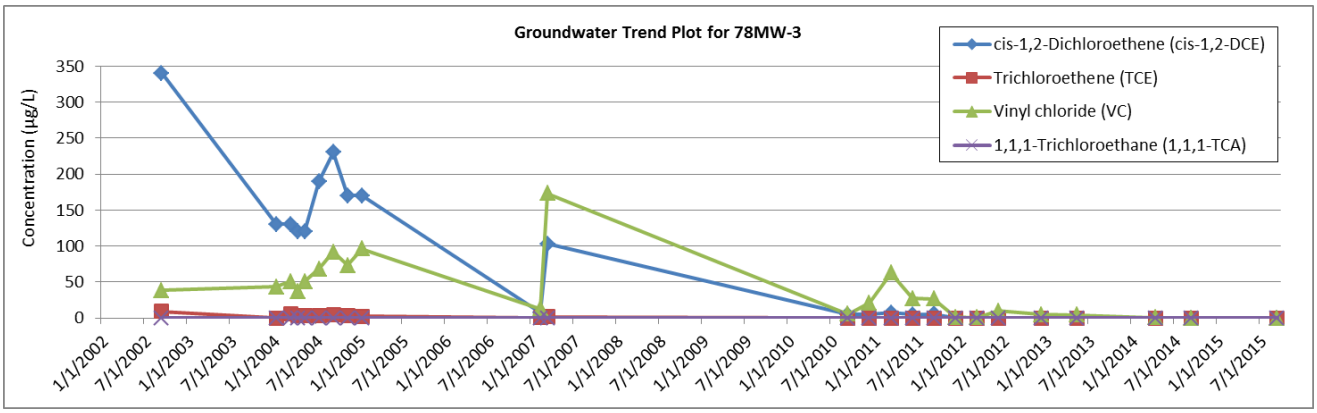
Appendix C
Trend Plots of Selected VOC Data

2015 Annual Monitoring Report
Site 78 (PICA-013) Groundwater and Surface Water
Picatinny Arsenal, New Jersey



Analyte	SCL	9/26/2002	2/27/2007	9/27/2010	12/22/2010	3/17/2011	6/20/2011	9/27/2011	12/19/2011	3/20/2012	6/25/2012	12/17/2012
cis-1,2-DCE	70	1.5	4.23	4.45	3.58	2.77	3.04	4.41	1.38	2.25	1.72	2.04
TCE	1	0	0.669	0.787	0.697	0.516	0.528	0.752	0.305	0.518	0.373	0.696
VC	1	0	0	0	0	0	0	0	0	0	0	0
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	5/21/2013	4/23/2014	9/3/2014	9/23/2015
cis-1,2-DCE	70	1.58	1.16	1.2	0.88
TCE	1	0.459	0.386	0.303	0
VC	1	0	0	0	0
1,1,1-TCA	30	0	0	0	0

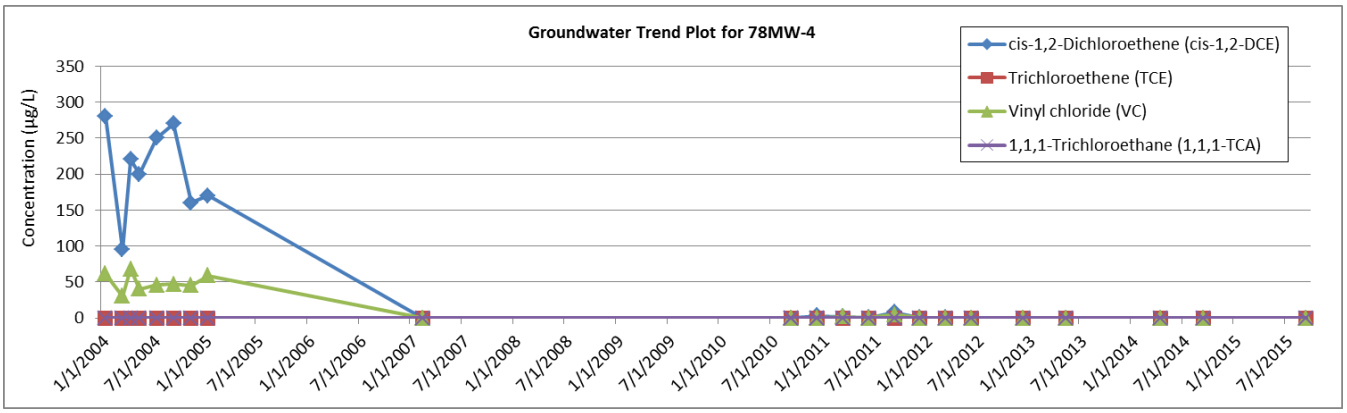


Analyte	SCL	3/22/2004	4/22/2004	5/21/2004	7/28/2004	9/17/2004	11/18/2004	1/11/2005	2/26/2007	3/5/2007	9/27/2010	12/22/2010
cis-1,2-DCE	70	130	120	120	190	230	170	170	7.43	103	4.82	5.48
TCE	1	5.3	3.8	3.3	3.8	4	2.6	2.5	0.5	1.83	0	0
VC	1	51	37	51	68	92	73	96	12.7	173	5.21	20.8
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	3/17/2011	6/20/2011	9/27/2011	12/19/2011	3/20/2012	6/25/2012	12/17/2012	5/21/2013	4/23/2014	9/3/2014	9/23/2015
cis-1,2-DCE	70	7.48	4.75	5.48	0	0	0.535	0.692	0.534	0	0	0
TCE	1	0	0	0	0	0	0	0	0	0	0	0
VC	1	62.8	27.1	26.7	1.22	0.445	9.72	4.51	3.91	0.658	0	0
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0	0

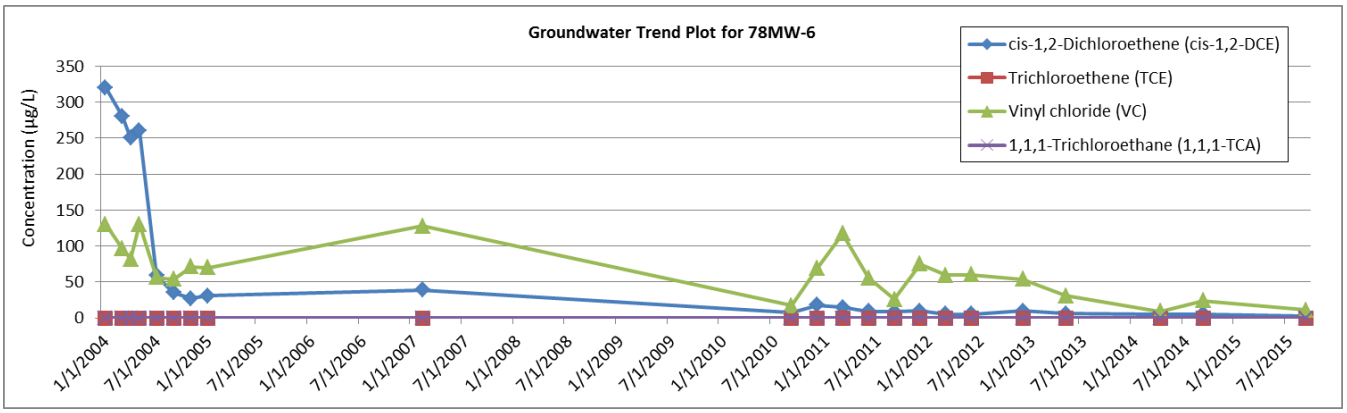
Appendix C
Trend Plots of Selected VOC Data

2015 Annual Monitoring Report
Site 78 (PICA-013) Groundwater and Surface Water
Picatinny Arsenal, New Jersey



Analyte	SCL	1/26/2004	3/22/2004	4/22/2004	5/21/2004	7/28/2004	9/17/2004	11/18/2004	1/11/2005	2/26/2007	9/27/2010	12/22/2010	9/27/2010
cis-1,2-DCE	70	280	95	220	200	250	270	160	170	0	0	2.9	0
TCE	1	0	0	0	0	0	0	0	0	0	0	0	0
VC	1	61	30	68	40	46	47	45	59	0	0	0	0
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	12/22/2010	3/17/2011	6/20/2011	9/27/2011	12/19/2011	3/20/2012	6/25/2012	12/17/2012	5/21/2013	4/23/2014	9/3/2014	9/23/2015
cis-1,2-DCE	70	2.9	1.53	0.565	7.59	0.445	0.27	0	0	0	0	0	0
TCE	1	0	---	0	---	0	0	0	0	0	0	0	0
VC	1	0	1.93	0	5.03	0	0	0	0	0	0	0	0
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0	0	0

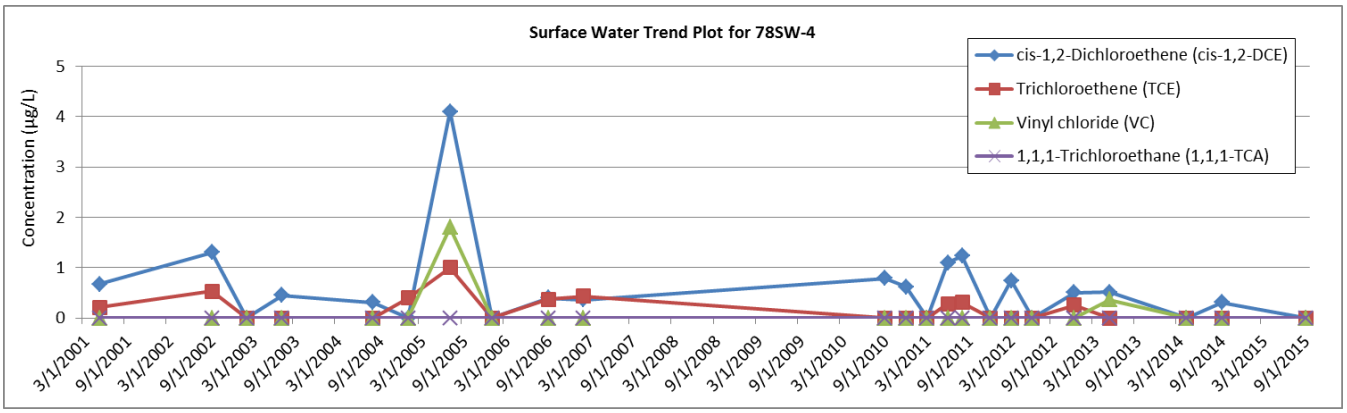


Analyte	SCL	1/26/2004	3/18/2004	4/21/2004	5/20/2004	7/27/2004	9/14/2004	11/17/2004	1/10/2005	2/26/2007	9/27/2010	12/22/2010	3/17/2011
cis-1,2-DCE	70	320	280	250	260	59	35	27	31	39.2	7.01	18	14.6
TCE	1	0	0	0	0	0	0	0	0	0	0	0	0
VC	1	130	96	82	130	56	54	71	70	128	17.2	69.2	117
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	6/20/2011	9/27/2011	12/19/2011	3/20/2012	6/25/2012	12/17/2012	5/21/2013	4/23/2014	9/3/2014	9/23/2015
cis-1,2-DCE	70	9.24	8.18	9.55	5.12	5.33	9.44	5.91	4.58	5.65	2.5
TCE	1	0	0	0	0	0	0	0	0	0	0
VC	1	55.5	26	75	59.7	59.9	53.6	31	8.96	24.2	10.8
1,1,1-TCA	30	0	0	0	0	0	0	0	0	0	0

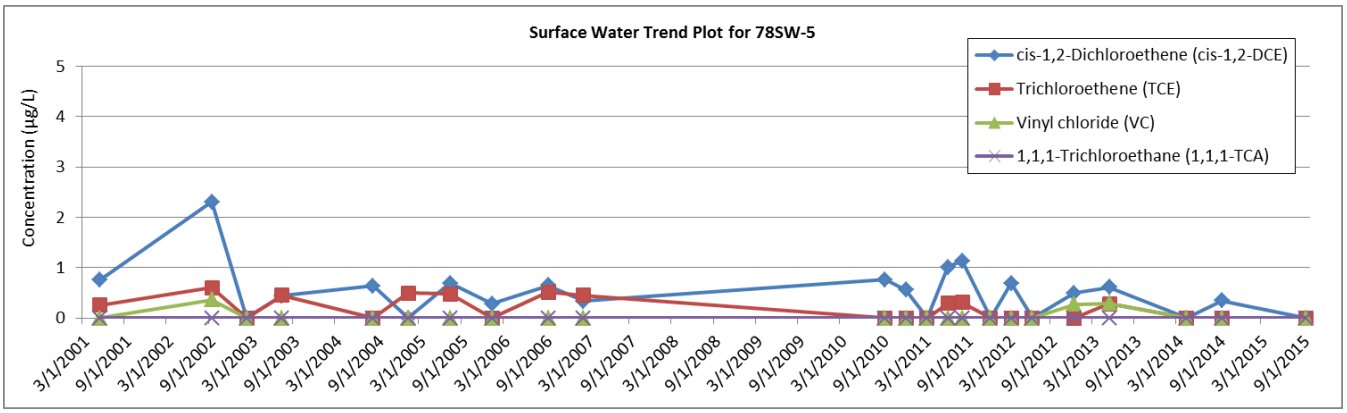
Appendix C
Trend Plots of Selected VOC Data

2015 Annual Monitoring Report
Site 78 (PICA-013) Groundwater and Surface Water
Picatinny Arsenal, New Jersey



Analyte	SCL	5/22/2001	9/30/2002	2/24/2003	7/24/2003	8/12/2004	1/25/2005	7/11/2005	1/30/2006	9/25/2006	2/16/2007	9/27/2010	12/8/2010
cis-1,2-DCE	592	0.67	1.3	0	0.45	0.31	0	4.1	0	0.396	0.365	0.789	0.62
TCE	1.09	0.21	0.53	0	0	0	0.4	1	0	0.371	0.431	0	0
VC	0.082	0	0	0	0	0	0	1.8	0	0	0	0	0
1,1,1-TCA	120	0	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	3/18/2011	6/20/2011	8/11/2011	12/7/2011	3/6/2012	6/13/2012	12/5/2012	5/8/2013	4/23/2014	9/3/2014	9/24/2015
cis-1,2-DCE	592	0	1.1	1.23	0	0.739	0	0.504	0.513	0	0.311	0
TCE	1.09	0	0.283	0.307	0	0	0	0.25	0	0	0	0
VC	0.082	0	0	0	0	0	0	0	0.357	0	0	0
1,1,1-TCA	120	0	0	0	0	0	0	0	0	0	0	0

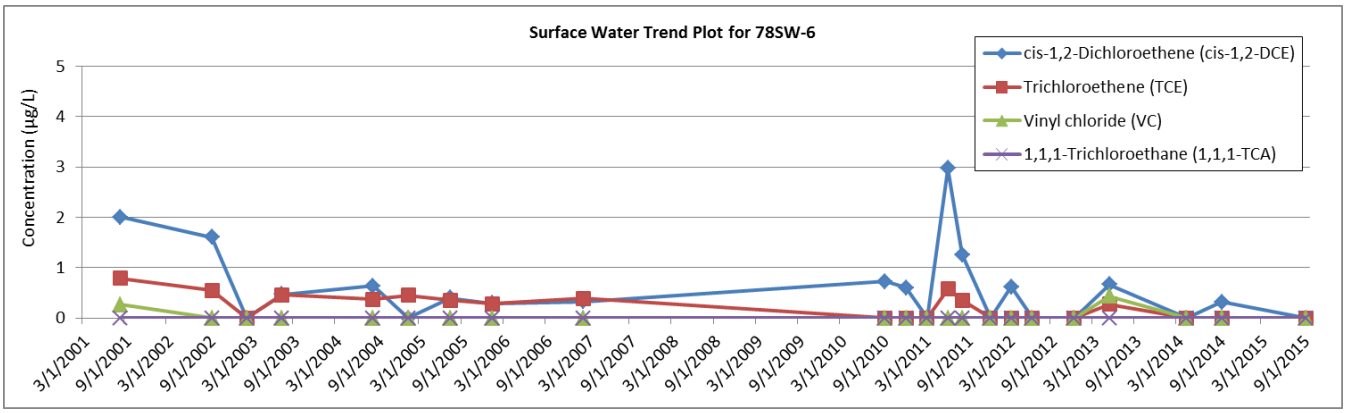


Analyte	SCL	5/22/2001	9/30/2002	2/24/2003	7/24/2003	8/12/2004	1/25/2005	7/11/2005	1/30/2006	9/25/2006	2/16/2007	9/27/2010	12/8/2010
cis-1,2-DCE	592	0.75	2.3	0	0.44	0.64	0	0.69	0.28	0.645	0.331	0.758	0.556
TCE	1.09	0.25	0.6	0	0.45	0	0.49	0.48	0	0.513	0.448	0	0
VC	0.082	0	0.36	0	0	0	0	0	0	0	0	0	0
1,1,1-TCA	120	0	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	3/18/2011	6/20/2011	8/11/2011	12/7/2011	3/6/2012	6/13/2012	12/5/2012	5/8/2013	4/23/2014	9/3/2014	9/24/2015
cis-1,2-DCE	592	0	1.01	1.13	0	0.686	0	0.493	0.613	0	0.343	0
TCE	1.09	0	0.287	0.309	0	0	0	0	0.283	0	0	0
VC	0.082	0	0	0	0	0	0	0.271	0.288	0	0	0
1,1,1-TCA	120	0	0	0	0	0	0	0	0	0	0	0

Appendix C
Trend Plots of Selected VOC Data

2015 Annual Monitoring Report
Site 78 (PICA-013) Groundwater and Surface Water
Picatinny Arsenal, New Jersey



Analyte	SCL	8/23/2001	9/30/2002	2/24/2003	7/24/2003	8/12/2004	1/25/2005	7/11/2005	1/30/2006	2/16/2007	9/27/2010	12/8/2010	3/18/2011
cis-1,2-DCE	592	2	1.6	0	0.47	0.64	0	0.4	0.29	0.327	0.727	0.603	0
TCE	1.09	0.79	0.55	0	0.46	0.37	0.45	0.35	0.28	0.383	0	0	0
VC	0.082	0.26	0	0	0	0	0	0	0	0	0	0	0
1,1,1-TCA	120	0	0	0	0	0	0	0	0	0	0	0	0

Analyte	SCL	6/20/2011	8/11/2011	12/7/2011	3/6/2012	6/13/2012	12/5/2012	5/8/2013	4/23/2014	9/3/2014	9/24/2015
cis-1,2-DCE	592	2.97	1.26	0	0.614	0	0	0.661	0	0.314	0
TCE	1.09	0.574	0.355	0	0	0	0	0.272	0	0	0
VC	0.082	0	0	0	0	0	0	0.429	0	0	0
1,1,1-TCA	120	0	0	0	0	0	0	0	0	0	0