



Former Lockheed Martin French Road Facility
Utica, New York

West Lot Groundwater Monitoring
Summary of First Quarter 2014 Groundwater Sampling
April 21, 2014

I. Background

Based on the results of previous investigations, Lockheed Martin Company (LMC) has agreed to perform additional groundwater sampling at the West Lot portion of the French Road facility in Utica, New York, in accordance with frequencies and methodology approved by NYSDEC. Groundwater gauging, sampling, and analysis are scheduled to be performed quarterly during 2014. The intent of the sampling is to supplement previous investigations and assess the suitability of the site for closure. A Site Location Map is presented in the Attachments as Figure 1.

Sampling is being performed using passive diffusion bags (PDBs) which is consistent with past sampling events as approved by NYSDEC. The program includes a total of 13 monitoring wells; the well locations are shown on the attached Figure 2.

II. Quarter 1 Well Gauging and Sampling

The Quarter 1 (Q1) sampling event was performed during the period March 5 through 19, 2014. Groundwater levels were gauged on March 4, 2014. Wells PZ-1 and PZ-2 could not be accessed. Well PZ-1 could not be found because of excessive ice sheet buildup over the area of the well. Well PZ-2 had ice buildup in the well casing. PDB samplers were deployed into 11 wells on March 5. The PDBs were retrieved on March 19, 2014. The fluids in the PDBs were transferred to 40-ml vials, and the samples were chilled and shipped to Accutest Laboratories of Marlboro, Massachusetts under chain-of-custody protocol and received at the lab on March 21, 2014. Samples were analyzed for volatile organic compounds (VOCs) using USEPA Method 8260C. A Field Duplicate sample was obtained from well MW-22 for QA/QC purposes.

III. Discussion of Results

A. Groundwater Flow Direction

Q1 water level readings are summarized on Table 1; Figure 3 depicts groundwater contours based on the water level readings. Groundwater flow is generally toward the south-southwest with some local variation at a relatively low gradient. This is consistent with conditions observed in previous sampling/gauging events.



**West Lot Continued Groundwater Monitoring
Summary of First Quarter 2014 Groundwater Sampling**

B. Groundwater Quality

The analytical results are summarized in Table 2 and depicted graphically on Figure 4. A copy of the laboratory report is included in Attachment 1, and a Data Usability Summary Report prepared for the data is included as Attachment 2.

Of the eleven wells sampled, eight wells showed no detections of VOCs. The other three wells had only one individual VOC detected in them (as listed below) and each detection was below the NYSDEC groundwater standard of 5 micrograms per liter ($\mu\text{g/L}$):

<u>Well</u>	<u>Detected Compound</u>	<u>Concentration ($\mu\text{g/L}$)</u>
MW-1-DOT	cis-1,2-Dichloroethene	4.2
MW-24	Tetrachloroethene	1.2
MW-F	Trichloroethene	3.5

These results continue to indicate reduced VOC concentrations in monitoring wells MW-1-DOT and MW-F. Additional monitoring will be necessary at MW-24 to confirm the relationship of the latest data with earlier results. Other wells such as MW-D, MW-E, and PW-1, which historically have been showing reduced concentrations, did not exhibit the presence of VOCs in this sampling round. Wells MW-23 and MW-24, which are located downgradient of the former Burn Pit area, had several VOCs evident in the last sampling event in August 2013, some of which were above standards and guidance values. MW-23 did not exhibit any VOC presence in this sampling round and as noted above MW-24 contained only one VOC at a level below standards and guidance values. As with MW-24, additional quarterly monitoring will be useful in MW-23 to identify long term results and possible seasonal variation.

Attachments:

- Table 1 - Groundwater Elevation Measurements
- Table 2 - Summary of Volatile Organic Compounds in Groundwater Samples
- Figure 1- Site Location Map
- Figure 2 - Monitoring Well Network
- Figure 3 - Groundwater Contours
- Figure 4 - Groundwater Monitoring Data
- Attachment 1 - Laboratory Report
- Attachment 2 - Data Usability Summary Report (with data attachment)

TABLES

Table 1. Groundwater Elevation Measurements

West Lot Site, Former Lockheed Martin French Road Facility, Utica, New York.

Monitoring Well	Top of PVC Riser Elevation	Depth to Water (from top of PVC riser)	Groundwater Elevation (ft)
		March 4, 2014	
West Lot Site			
MW-1-DOT	508.70	9.72	498.98
MW-22	509.30	7.39	501.91
MW-23	508.70	6.90	501.80
MW-24	508.80	6.78	502.02
MW-B	509.85	5.99	503.86
MW-C	509.10	6.41	502.69
MW-D	508.95	6.66	502.29
MW-E	508.50	6.56	501.94
MW-F	509.75	7.82	501.93
PW-1	503.26	1.75	501.51
10-Acre Parcel			
MW-1	508.65	5.84	502.81
MW-5	509.75	7.75	502.00
Western Parking Lot			
PZ-1	508.56	NG	-
PZ-2	508.95	NG	-

NOTES:

1. All elevations are reported as feet mean sea level (ft msl).
2. Survey data are referenced horizontally to the NAD83 and projected on the New York State Plane Coordinate System (Central Zone).
3. The reference vertical benchmark is the finished floor elevation of the southeasterly corner of the Boiler House Building (Elevation 506.50 feet).
4. NG = not gaged.



**Table 2. Summary of Volatile
Organic Compounds in Groundwater Samples**

West Lot Site, Former Lockheed Martin
French Road Facility Utica, New York

March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-1-DOT				
		08/24/09	10/26/09	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	0.51	< 0.40	< 1.0	< 0.94 [< 0.94]	< 1.0
1,1-DICHLOROETHANE	5	< 0.75	< 0.75	< 1.0	< 0.37 [< 0.37]	< 1.0
1,2-DICHLOROBENZENE	3	< 0.50	< 0.50	< 1.0	< 0.35 [< 0.35]	< 1.0
1,3-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.30 [< 0.30]	< 1.0
1,4-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.26 [< 0.26]	< 1.0
BENZENE	1	< 0.41	< 0.41	< 0.50	< 0.45 [< 0.45]	< 0.50
CHLOROBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.48 [< 0.48]	< 1.0
CHLOROETHANE	5	< 0.40	< 0.40	< 2.0	< 0.84 [< 0.84]	< 2.0
CIS-1,2-DICHLOROETHENE	5	8.0	7.9	6.1	6.5 [6.4]	4.2
ETHYLBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.38 [< 0.38]	< 1.0
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 1.0	< 0.70 [< 0.70]	< 1.0
METHYLENE CHLORIDE	5	NA	NA	NA	< 0.41 [< 0.41]	< 2.0
O-XYLENE	NS	< 0.40	< 0.40	< 1.0	< 0.41 [< 0.41]	< 1.0
TETRACHLOROETHENE	5	< 0.40	< 0.40	< 1.0	< 0.61 [< 0.61]	< 1.0
TOLUENE	5	< 0.60	< 0.60	< 1.0 J	< 0.45 [< 0.45]	< 1.0
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 0.42	< 1.0	< 0.54 [< 0.54]	< 1.0
TRICHLOROETHENE	5	< 0.46	< 0.46	< 1.0	< 0.45 [< 0.45]	< 1.0
VINYL CHLORIDE	2	< 1.0	< 1.0	< 1.0	< 0.61 [< 0.61]	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 1.0	< 0.41 [< 0.41]	< 1.0

Notes:

- 1) All units are ug/L.
- 2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
- 3) NS - No Standard
- 4) NA - Data Not Available
- 5) **BOLD** - Detected Compound
- 6) Exceedances noted as shaded.
- 7) J - Estimated Value
- 8) [] - Duplicate sample result.
- 9) < - Reporting Limit Presented when a ND result was found
- 10) 2014 data have been validated as described in attached Data Usability Summary Report.

**Table 2. Summary of Volatile
Organic Compounds in Groundwater Samples**

West Lot Site, Former Lockheed Martin
French Road Facility Utica, New York

March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-1				MW-2	MW-3	MW-4
		08/24/09	05/08/12	08/14/13	03/19/14	08/25/09	08/24/09	08/24/09
1,1,1-TRICHLOROETHANE	5	< 0.40	< 1.0	< 0.94	< 1.0	< 0.40	< 0.40	< 0.40
1,1-DICHLOROETHANE	5	< 0.75	< 1.0	< 0.37	< 1.0	< 0.75	< 0.75	< 0.75
1,2-DICHLOROBENZENE	3	< 0.50	< 1.0	< 0.35	< 1.0	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.30	< 1.0	< 0.40	< 0.40	< 0.40
1,4-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.26	< 1.0	< 0.40	< 0.40	< 0.40
BENZENE	1	< 0.41	< 0.50	< 0.45	< 0.50	< 0.41	< 0.41	< 0.41
CHLOROBENZENE	5	< 0.40	< 1.0	< 0.48	< 1.0	< 0.40	< 0.40	< 0.40
CHLOROETHANE	5	< 0.40	< 2.0	< 0.84	< 2.0	< 0.40	< 0.40	< 0.40
CIS-1,2-DICHLOROETHENE	5	< 0.40	< 1.0	< 0.54	< 1.0	< 0.40	< 0.40	< 0.40
ETHYLBENZENE	5	< 0.40	< 1.0	< 0.38	< 1.0	< 0.40	< 0.40	< 0.40
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 1.0	< 1.0
METHYLENE CHLORIDE	5	NA	NA	< 0.41	< 2.0	NA	NA	NA
O-XYLENE	NS	< 0.40	< 1.0	< 0.41	< 1.0	< 0.40	< 0.40	< 0.40
TETRACHLOROETHENE	5	< 0.40	< 1.0	< 0.61	< 1.0	< 0.40	< 0.40	< 0.40
TOLUENE	5	< 0.60	< 1.0 J	< 0.45	< 1.0	< 0.60	< 0.60	< 0.60
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 1.0	< 0.54	< 1.0	< 0.42	< 0.42	< 0.42
TRICHLOROETHENE	5	< 0.46	< 1.0	< 0.45	< 1.0	< 0.46	< 0.46	< 0.46
VINYL CHLORIDE	2	< 1.0	< 1.0	< 0.61	< 1.0	< 1.0	< 1.0	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 0.41	< 1.0	< 1.0	< 1.0	< 1.0

Notes:

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West Lot Site, Former Lockheed Martin
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March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-5				MW-22		
		08/24/09	05/08/12	08/14/13	03/19/14	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	< 0.40	< 1.0	< 0.94	< 1.0	< 1.0	< 0.94	< 1.0 [<lt; 1.0]<="" td=""></lt;>
1,1-DICHLOROETHANE	5	< 0.75	< 1.0	< 0.37	< 1.0	< 1.0	< 0.37	< 1.0 [<lt; 1.0]<="" td=""></lt;>
1,2-DICHLOROBENZENE	3	< 0.50	< 1.0	< 0.35	< 1.0	< 1.0	< 0.35	< 1.0 [<lt; 1.0]<="" td=""></lt;>
1,3-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.30	< 1.0	< 1.0	< 0.30	< 1.0 [<lt; 1.0]<="" td=""></lt;>
1,4-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.26	< 1.0	< 1.0	< 0.26	< 1.0 [<lt; 1.0]<="" td=""></lt;>
BENZENE	1	< 0.41	< 0.50	< 0.45	< 0.50	< 0.50	< 0.45	< 0.50 [<lt; 0.50]<="" td=""></lt;>
CHLOROBENZENE	5	< 0.40	< 1.0	< 0.48	< 1.0	< 1.0	< 0.48	< 1.0 [<lt; 1.0]<="" td=""></lt;>
CHLOROETHANE	5	< 0.40	< 2.0	< 0.84	< 2.0	< 2.0	< 0.84	< 2.0 [<lt; 2.0]<="" td=""></lt;>
CIS-1,2-DICHLOROETHENE	5	< 0.40	< 1.0	< 0.54	< 1.0	< 1.0	< 0.54	< 1.0 [<lt; 1.0]<="" td=""></lt;>
ETHYLBENZENE	5	< 0.40	< 1.0	< 0.38	< 1.0	< 1.0	< 0.38	< 1.0 [<lt; 1.0]<="" td=""></lt;>
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0	< 0.70	< 1.0 [<lt; 1.0]<="" td=""></lt;>
METHYLENE CHLORIDE	5	NA	NA	< 0.41	< 2.0	NA	< 0.41	< 2.0 [<lt; 2.0]<="" td=""></lt;>
O-XYLENE	NS	< 0.40	< 1.0	< 0.41	< 1.0	< 1.0	< 0.41	< 1.0 [<lt; 1.0]<="" td=""></lt;>
TETRACHLOROETHENE	5	< 0.40	< 1.0	< 0.61	< 1.0	< 1.0	< 0.61	< 1.0 [<lt; 1.0]<="" td=""></lt;>
TOLUENE	5	< 0.60	< 1.0 J	< 0.45	< 1.0	< 1.0 J	< 0.45	< 1.0 [<lt; 1.0]<="" td=""></lt;>
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 1.0	< 0.54	< 1.0	< 1.0	< 0.54	< 1.0 [<lt; 1.0]<="" td=""></lt;>
TRICHLOROETHENE	5	< 0.46	< 1.0	< 0.45	< 1.0	< 1.0	< 0.45	< 1.0 [<lt; 1.0]<="" td=""></lt;>
VINYL CHLORIDE	2	< 1.0	< 1.0	< 0.61	< 1.0	< 1.0	< 0.61	< 1.0 [<lt; 1.0]<="" td=""></lt;>
XYLENES, TOTAL	5	< 1.0	< 1.0	< 0.41	< 1.0	< 1.0	< 0.41	< 1.0 [<lt; 1.0]<="" td=""></lt;>

Notes:

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March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-23			MW-24		
		05/08/12	08/14/13	03/19/14	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	< 1.0	< 0.94	< 1.0	< 1.0	< 0.94	< 1.0
1,1-DICHLOROETHANE	5	< 1.0	< 0.37	< 1.0	< 1.0	< 0.37	< 1.0
1,2-DICHLOROBENZENE	3	< 1.0	< 0.35	< 1.0	< 1.0	< 0.35	< 1.0
1,3-DICHLOROBENZENE	3	< 1.0	< 0.30	< 1.0	< 1.0	< 0.30	< 1.0
1,4-DICHLOROBENZENE	3	< 1.0	< 0.26	< 1.0	< 1.0	< 0.26	< 1.0
BENZENE	1	< 0.50	< 0.45	< 0.50	< 0.50	< 0.45	< 0.50
CHLOROBENZENE	5	< 1.0	< 0.48	< 1.0	< 1.0	< 0.48	< 1.0
CHLOROETHANE	5	< 2.0	< 0.84	< 2.0	< 2.0	< 0.84	< 2.0
CIS-1,2-DICHLOROETHENE	5	< 1.0	7.3	< 1.0	< 1.0	20.4	< 1.0
ETHYLBENZENE	5	< 1.0	< 0.38	< 1.0	< 1.0	< 0.38	< 1.0
M-XYLENE & P-XYLENE	5	< 1.0	< 0.70	< 1.0	< 1.0	< 0.70	< 1.0
METHYLENE CHLORIDE	5	NA	< 0.41	< 2.0	NA	< 0.41	< 2.0
O-XYLENE	NS	< 1.0	< 0.41	< 1.0	< 1.0	< 0.41	< 1.0
TETRACHLOROETHENE	5	< 1.0	< 0.61	< 1.0	< 1.0	15.7	1.2
TOLUENE	5	< 1.0 J	< 0.45	< 1.0	< 1.0 J	< 0.45	< 1.0
TRANS-1,2-DICHLOROETHENE	5	< 1.0	< 0.54	< 1.0	< 1.0	< 0.54	< 1.0
TRICHLOROETHENE	5	< 1.0	< 0.45	< 1.0	< 1.0	23.5	< 1.0
VINYL CHLORIDE	2	< 1.0	10.6	< 1.0	< 1.0	7.6	< 1.0
XYLENES, TOTAL	5	< 1.0	< 0.41	< 1.0	< 1.0	< 0.41	< 1.0

Notes:

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- 4) NA - Data Not Available
- 5) **BOLD** - Detected Compound
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West Lot Site, Former Lockheed Martin
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March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-B				MW-C
		08/24/09	05/08/12	08/14/13	03/19/14	08/24/09
1,1,1-TRICHLOROETHANE	5	< 0.40	< 1.0	< 0.94	< 1.0	< 0.40
1,1-DICHLOROETHANE	5	< 0.75	< 1.0	< 0.37	< 1.0	< 0.75
1,2-DICHLOROBENZENE	3	< 0.50	< 1.0	< 0.35	< 1.0	< 0.50
1,3-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.30	< 1.0	< 0.40
1,4-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.26	< 1.0	< 0.40
BENZENE	1	< 0.41	< 0.50	< 0.45	< 0.50	< 0.41
CHLOROBENZENE	5	< 0.40	< 1.0	< 0.48	< 1.0	< 0.40
CHLOROETHANE	5	< 0.40	< 2.0	< 0.84	< 2.0	< 0.40
CIS-1,2-DICHLOROETHENE	5	< 0.40	< 1.0	< 0.54	< 1.0	< 0.40
ETHYLBENZENE	5	< 0.40	< 1.0	< 0.38	< 1.0	< 0.40
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 0.70	< 1.0	< 1.0
METHYLENE CHLORIDE	5	NA	NA	< 0.41	< 2.0	NA
O-XYLENE	NS	< 0.40	< 1.0	< 0.41	< 1.0	< 0.40
TETRACHLOROETHENE	5	< 0.40	< 1.0	< 0.61	< 1.0	< 0.40
TOLUENE	5	5.0	< 1.0 J	< 0.45	< 1.0	< 0.60
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 1.0	< 0.54	< 1.0	< 0.42
TRICHLOROETHENE	5	< 0.46	< 1.0	< 0.45	< 1.0	< 0.46
VINYL CHLORIDE	2	< 1.0	< 1.0	< 0.61	< 1.0	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 0.41	< 1.0	< 1.0

Notes:

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March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-D				
		08/25/09	10/26/09	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	< 0.40	< 0.40	< 1.0	< 0.94	< 1.0
1,1-DICHLOROETHANE	5	< 0.75	< 0.75	< 1.0	< 0.37	< 1.0
1,2-DICHLOROBENZENE	3	< 0.50	< 0.50	< 1.0	< 0.35	< 1.0
1,3-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.30	< 1.0
1,4-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.26	< 1.0
BENZENE	1	< 0.41	< 0.41	< 0.50	< 0.45	< 0.50
CHLOROBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.48	< 1.0
CHLOROETHANE	5	< 0.40	< 0.40	< 2.0	< 0.84	< 2.0
CIS-1,2-DICHLOROETHENE	5	48	56	1.4	2.3	< 1.0
ETHYLBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.38	< 1.0
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0
METHYLENE CHLORIDE	5	NA	NA	NA	< 0.41	< 2.0
O-XYLENE	NS	< 0.40	< 0.40	< 1.0	< 0.41	< 1.0
TETRACHLOROETHENE	5	0.59	< 0.40	< 1.0	< 0.61	< 1.0
TOLUENE	5	< 0.60	< 0.60	< 1.0 J	< 0.45	< 1.0
TRANS-1,2-DICHLOROETHENE	5	< 0.42	0.81	< 1.0	< 0.54	< 1.0
TRICHLOROETHENE	5	3.9	3.3	< 1.0	< 0.45	< 1.0
VINYL CHLORIDE	2	15	18	< 1.0	< 0.61	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 1.0	< 0.41	< 1.0

Notes:

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- 3) NS - No Standard
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March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-E				
		08/24/09	10/26/09	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	10	7.1	< 1.0	< 0.94	< 1.0
1,1-DICHLOROETHANE	5	4.4	2.5	< 1.0	< 0.37	< 1.0
1,2-DICHLOROBENZENE	3	< 0.50	< 0.50	< 1.0	< 0.35	< 1.0
1,3-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.30	< 1.0
1,4-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.26	< 1.0
BENZENE	1	< 0.41	< 0.41	< 0.50	< 0.45	< 0.50
CHLOROBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.48	< 1.0
CHLOROETHANE	5	< 0.40	< 0.40	< 2.0	< 0.84	< 2.0
CIS-1,2-DICHLOROETHENE	5	14	9	4.9	1.5	< 1.0
ETHYLBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.38	< 1.0
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0
METHYLENE CHLORIDE	5	NA	NA	NA	< 0.41	< 2.0
O-XYLENE	NS	< 0.40	< 0.40	< 1.0	< 0.41	< 1.0
TETRACHLOROETHENE	5	< 0.40	< 0.40	< 1.0	< 0.61	< 1.0
TOLUENE	5	< 0.60	< 0.60	< 1.0 J	< 0.45	< 1.0
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 0.42	< 1.0	< 0.54	< 1.0
TRICHLOROETHENE	5	26	23	< 1.0	< 0.45	< 1.0
VINYL CHLORIDE	2	< 1.0	< 1.0	< 1.0	< 0.61	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 1.0	< 0.41	< 1.0

Notes:

- 1) All units are ug/L.
- 2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
- 3) NS - No Standard
- 4) NA - Data Not Available
- 5) **BOLD** - Detected Compound
- 6) Exceedances noted as shaded.
- 7) J - Estimated Value
- 8) [] - Duplicate sample result.
- 9) < - Reporting Limit Presented when a ND result was found
- 10) 2014 data have been validated as described in attached Data Usability Summary Report.

**Table 2. Summary of Volatile
Organic Compounds in Groundwater Samples**

West Lot Site, Former Lockheed Martin
French Road Facility Utica, New York

March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-F				
		08/24/09	10/26/09	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	1.3	1.2	< 1.0	< 0.94	< 1.0
1,1-DICHLOROETHANE	5	< 0.75	< 0.75	< 1.0	< 0.37	< 1.0
1,2-DICHLOROBENZENE	3	< 0.50	< 0.50	< 1.0	< 0.35	< 1.0
1,3-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.30	< 1.0
1,4-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.26	< 1.0
BENZENE	1	< 0.41	< 0.41	< 0.50	< 0.45	< 0.50
CHLOROBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.48	< 1.0
CHLOROETHANE	5	< 0.40	< 0.40	< 2.0	< 0.84	< 2.0
CIS-1,2-DICHLOROETHENE	5	3.3	3.2	1.8	1.8	< 1.0
ETHYLBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.38	< 1.0
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0
METHYLENE CHLORIDE	5	NA	NA	NA	0.81 J	< 2.0
O-XYLENE	NS	< 0.40	< 0.40	< 1.0	< 0.41	< 1.0
TETRACHLOROETHENE	5	< 0.40	< 0.40	< 1.0	< 0.61	< 1.0
TOLUENE	5	< 0.60	< 0.60	< 1.0 J	< 0.45	< 1.0
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 0.42	< 1.0	< 0.54	< 1.0
TRICHLOROETHENE	5	35	30	18.7	13.0	3.5
VINYL CHLORIDE	2	< 1.0	0.54 J	< 1.0	< 0.61	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0

Notes:

- 1) All units are ug/L.
- 2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
- 3) NS - No Standard
- 4) NA - Data Not Available
- 5) **BOLD** - Detected Compound
- 6) Exceedances noted as shaded.
- 7) J - Estimated Value
- 8) [] - Duplicate sample result.
- 9) < - Reporting Limit Presented when a ND result was found
- 10) 2014 data have been validated as described in attached Data Usability Summary Report.

**Table 2. Summary of Volatile
Organic Compounds in Groundwater Samples**

West Lot Site, Former Lockheed Martin
French Road Facility Utica, New York

March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	PW-1				
		08/24/09	10/26/09	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	< 0.40	< 0.40	< 1.0	< 0.94	< 1.0
1,1-DICHLOROETHANE	5	< 0.75	< 0.75	< 1.0	< 0.37	< 1.0
1,2-DICHLOROBENZENE	3	< 0.50	0.51	< 1.0	< 0.35	< 1.0
1,3-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.30	< 1.0
1,4-DICHLOROBENZENE	3	< 0.40	< 0.40	< 1.0	< 0.26	< 1.0
BENZENE	1	< 0.41	< 0.41	< 0.50	< 0.45	< 0.50
CHLOROBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.48	< 1.0
CHLOROETHANE	5	< 0.40	< 0.40	< 2.0	< 0.84	< 2.0
CIS-1,2-DICHLOROETHENE	5	2.4	1.5	0.88	< 0.54	< 1.0
ETHYLBENZENE	5	< 0.40	< 0.40	< 1.0	< 0.38	< 1.0
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 1.0	< 0.70	< 1.0
METHYLENE CHLORIDE	5	NA	NA	NA	< 0.41	< 2.0
O-XYLENE	NS	< 0.40	< 0.40	< 1.0	< 0.41	< 1.0
TETRACHLOROETHENE	5	< 0.40	< 0.40	< 1.0	< 0.61	< 1.0
TOLUENE	5	< 0.60	< 0.60	< 1.0 J	0.47	< 1.0
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 0.42	< 1.0	< 0.54	< 1.0
TRICHLOROETHENE	5	1.1	2.5	< 1.0	< 0.45	< 1.0
VINYL CHLORIDE	2	< 1.0	< 1.0	< 1.0	< 0.61	< 1.0
XYLENES, TOTAL	5	< 1.0	< 1.0	< 1.0	< 0.41	< 1.0

Notes:

- 1) All units are ug/L.
- 2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
- 3) NS - No Standard
- 4) NA - Data Not Available
- 5) **BOLD** - Detected Compound
- 6) Exceedances noted as shaded.
- 7) J - Estimated Value
- 8) [] - Duplicate sample result.
- 9) < - Reporting Limit Presented when a ND result was found
- 10) 2014 data have been validated as described in attached Data Usability Summary Report.

Table 2. Summary of Volatile Organic Compounds in Groundwater Samples

West Lot Site, Former Lockheed Martin
French Road Facility Utica, New York

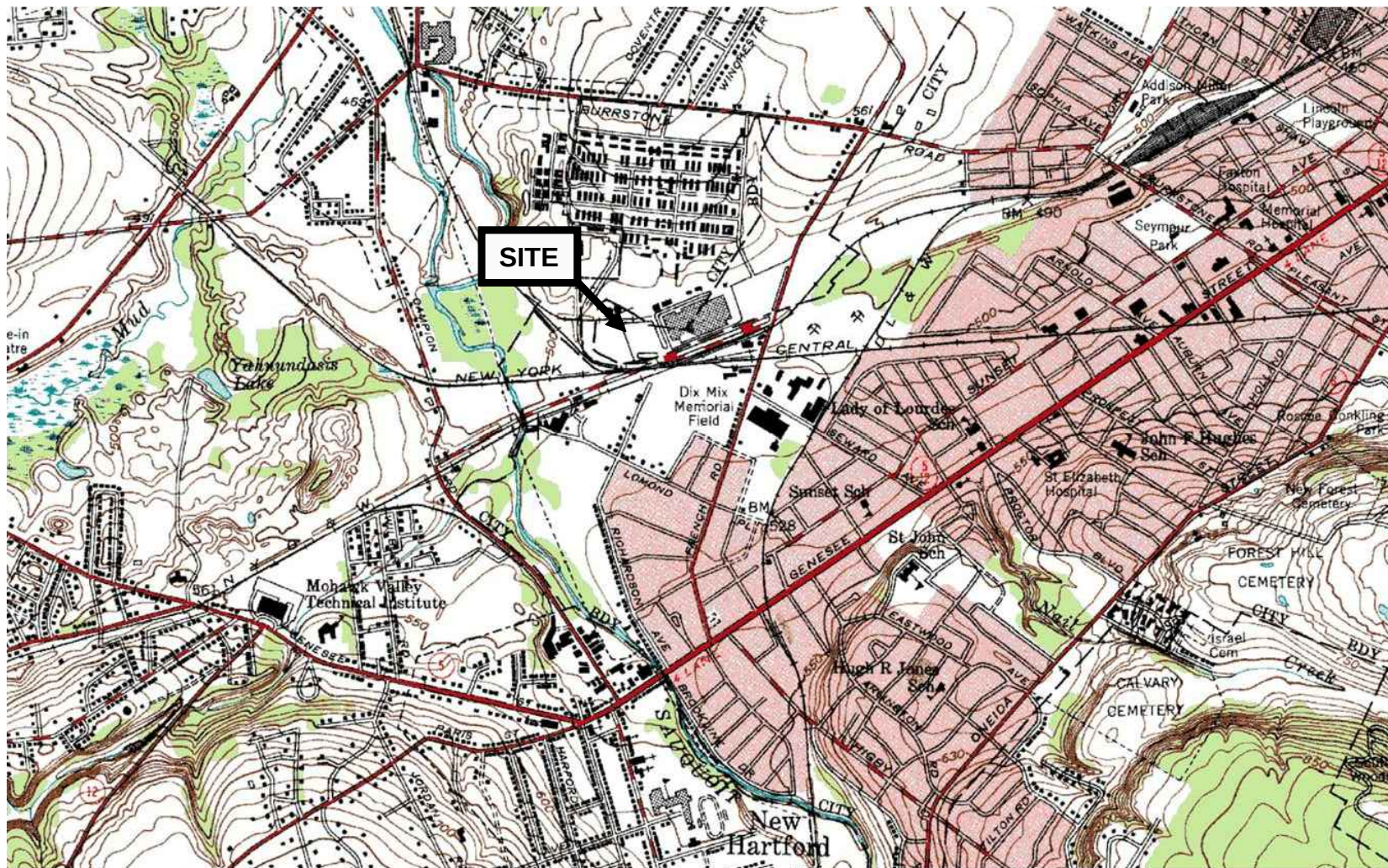
March 18, 2014

Constituent	NYSDEC TOGS 1.1.1 Water Guidance Values	PZ-1				PZ-2			
		08/24/09	05/08/12	08/14/13	03/19/14	08/25/09	05/08/12	08/14/13	03/19/14
1,1,1-TRICHLOROETHANE	5	< 0.40	< 1.0	< 0.94	not sampled	< 0.40	< 1.0	< 0.94	not sampled
1,1-DICHLOROETHANE	5	< 0.75	< 1.0	< 0.37	not sampled	< 0.75	< 1.0	< 0.37	not sampled
1,2-DICHLOROBENZENE	3	< 0.50	< 1.0	< 0.35	not sampled	< 0.50	< 1.0	< 0.35	not sampled
1,3-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.30	not sampled	< 0.40	< 1.0	< 0.30	not sampled
1,4-DICHLOROBENZENE	3	< 0.40	< 1.0	< 0.26	not sampled	< 0.40	< 1.0	< 0.26	not sampled
BENZENE	1	< 0.41	< 0.50	< 0.45	not sampled	< 0.41	< 0.50	< 0.45	not sampled
CHLOROBENZENE	5	< 0.40	< 1.0	< 0.48	not sampled	< 0.40	< 1.0	< 0.48	not sampled
CHLOROETHANE	5	< 0.40	< 2.0	< 0.84	not sampled	< 0.40	< 2.0	< 0.84	not sampled
CIS-1,2-DICHLOROETHENE	5	1.8	1.2	1.7	not sampled	< 0.40	< 1.0	< 0.54	not sampled
ETHYLBENZENE	5	< 0.40	< 1.0	< 0.38	not sampled	< 0.40	< 1.0	< 0.38	not sampled
M-XYLENE & P-XYLENE	5	< 1.0	< 1.0	< 0.70	not sampled	< 1.0	< 1.0	< 0.70	not sampled
METHYLENE CHLORIDE	5	NA	NA	< 0.41	not sampled	NA	NA	< 0.41	not sampled
O-XYLENE	NS	< 0.40	< 1.0	< 0.41	not sampled	< 0.40	< 1.0	< 0.41	not sampled
TETRACHLOROETHENE	5	< 0.40	< 1.0	< 0.61	not sampled	< 0.40	< 1.0	< 0.61	not sampled
TOLUENE	5	< 0.60	< 1.0 J	< 0.45	not sampled	< 0.60	< 1.0 J	< 0.45	not sampled
TRANS-1,2-DICHLOROETHENE	5	< 0.42	< 1.0	< 0.54	not sampled	< 0.42	< 1.0	< 0.54	not sampled
TRICHLOROETHENE	5	< 0.46	< 1.0	< 0.45	not sampled	< 0.46	< 1.0	< 0.45	not sampled
VINYL CHLORIDE	2	< 1.0	< 1.0	< 0.61	not sampled	< 1.0	< 1.0	< 0.61	not sampled
XYLENES, TOTAL	5	< 1.0	< 1.0	< 0.41	not sampled	< 1.0	< 1.0	< 0.41	not sampled

Notes:

- 1) All units are ug/L.
- 2) Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
- 3) NS - No Standard
- 4) NA - Data Not Available
- 5) **BOLD** - Detected Compound
- 6) Exceedances noted as shaded.
- 7) J - Estimated Value
- 8) [] - Duplicate sample result.
- 9) < - Reporting Limit Presented when a ND result was found
- 10) 2014 data have been validated as described in attached Data Usability Summary Report.

FIGURES

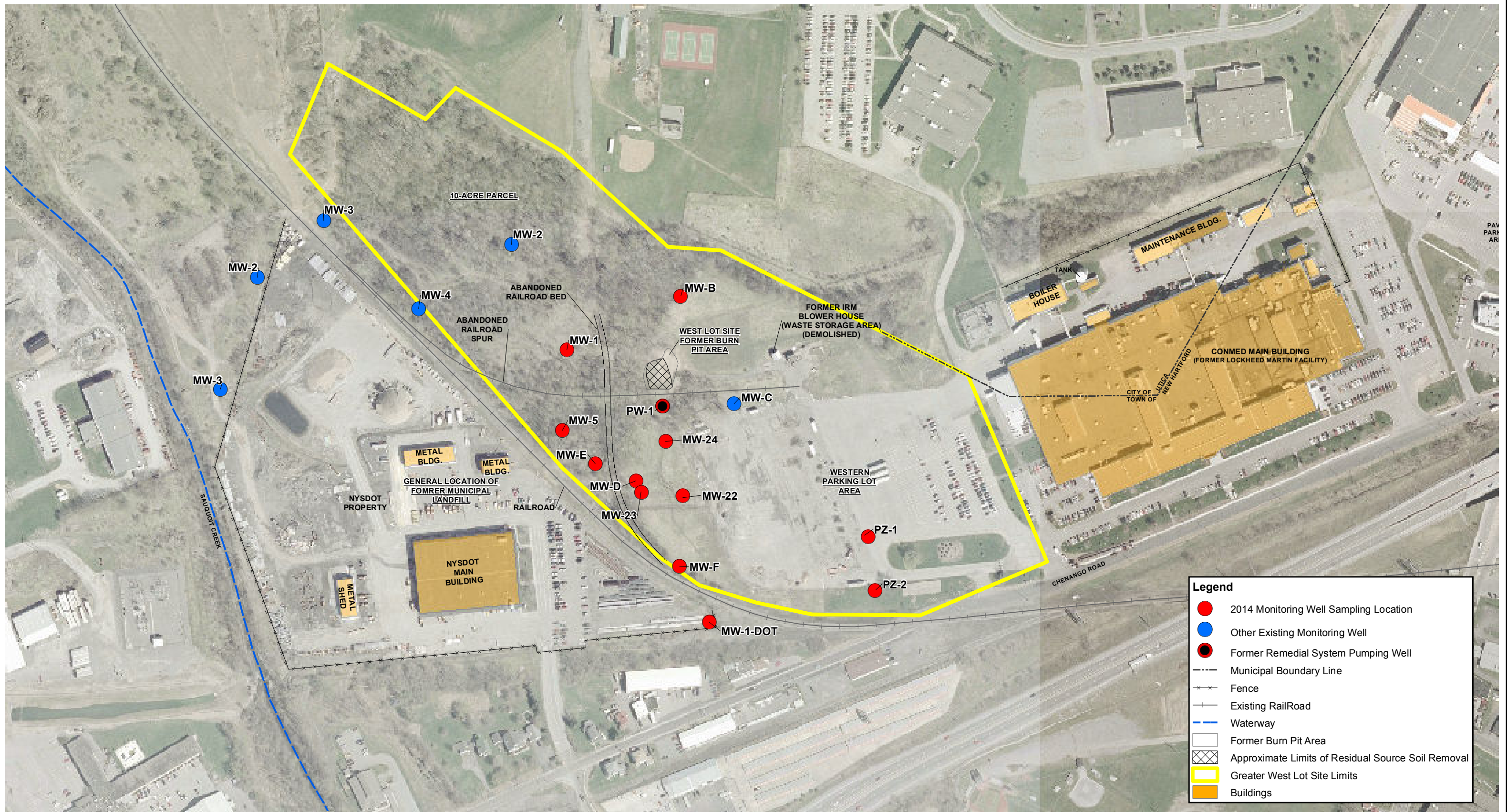


0 1000 2000
 SCALE IN FEET

CONTINUED INVESTIGATION ACTIVITIES
 WEST LOT SITE
 FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
 UTICA, NEW YORK

SITE LOCATION MAP





copyright © 2014



Source Notes:
Aerial taken in 2003
Coordinate System: NAD 1983 StatePlane,
New York Central, FIPS 3102

1.)Base map adapted from drawing entitled:
"Monitoring Well Network, West Lot Site,
Former Lockheed Martin French Road Facility,
Utica, New York, " by ARCADIS,
dated Sept. 19, 2013

ArcGIS Version: ArcInfo 10.1

Map Date:
4/18/2014
9:50:41 AM

Server: Rochester
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Last Edited By:

Checked By:
B. Mahoney

Project Manager:
P. Nielsen

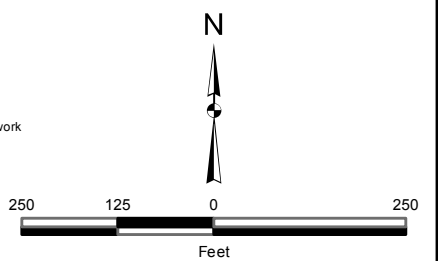
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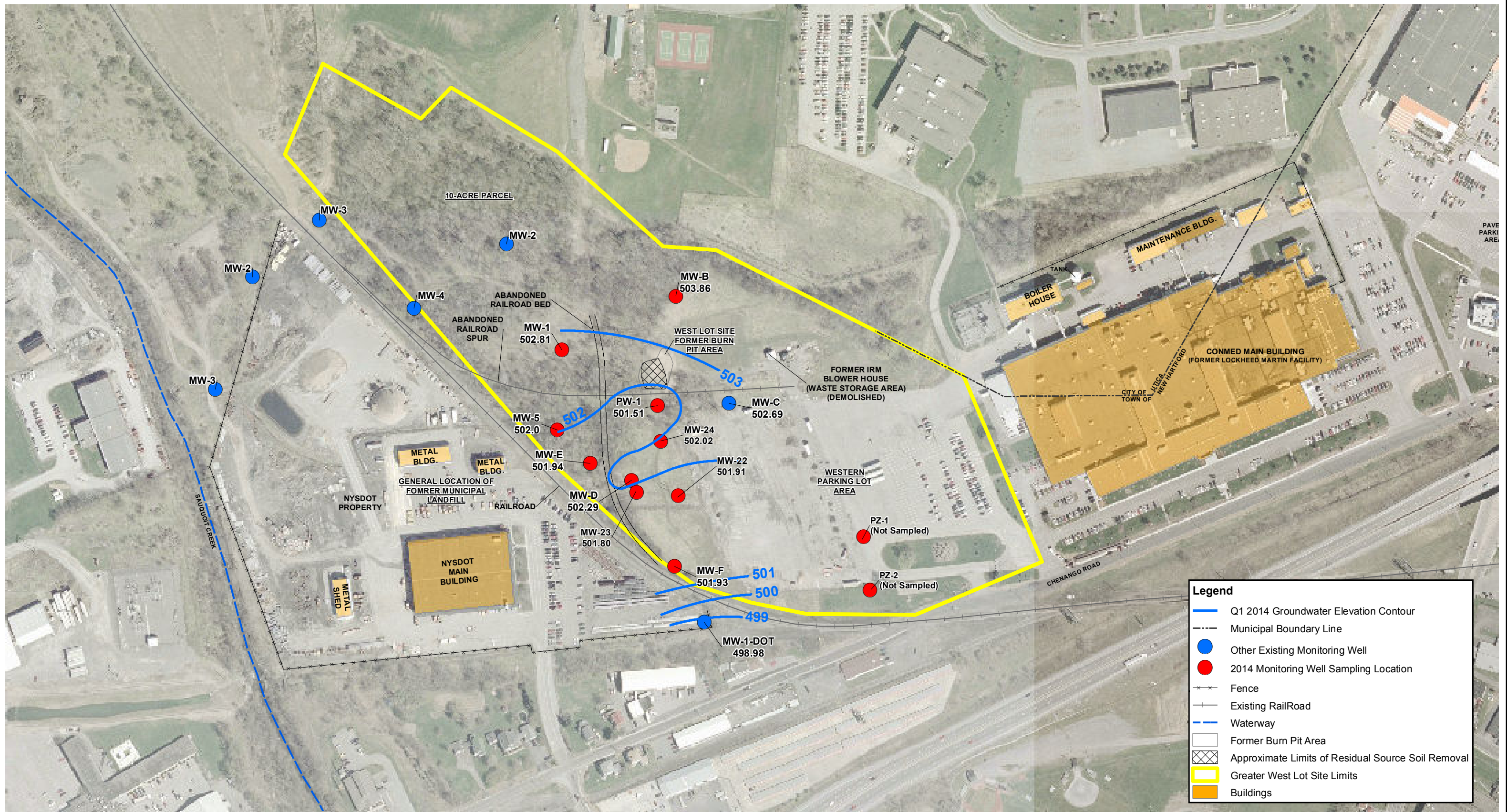
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190500800

Figure:
2

Monitoring Well Network

Continued Investigation Activities
West Lot Site / Former Lockheed Martin French Road Facility
Utica, New York





Source Notes:
Aerial taken in 2003
Coordinate System: NAD 1983 StatePlane,
New York Central, FIPS 3102

General Notes:
1.) Wells PZ-1 and PZ-2 not sampled due to being buried by ice and snow.
2.) Groundwater levels measured on March 4, 2014
3.) Base map adapted from drawing entitled:
"Monitoring Well Network, West Lot Site,
Former Lockheed Martin French Road Facility,
Utica, New York," by ARCADIS, dated Sept. 19, 2013

Map Date:
4/18/2014
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Server: Rochester

Document Path: U:\190500800\07_photos_maps_images\DRAWINGS\Report Figures\6-West Lot\GIS\2014_Fig3_GroundwaterContourMap.mxd

Last Edited By:
aless

Checked By:
B. Mahoney

Project Manager:
P. Nielsen

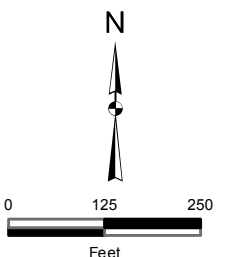
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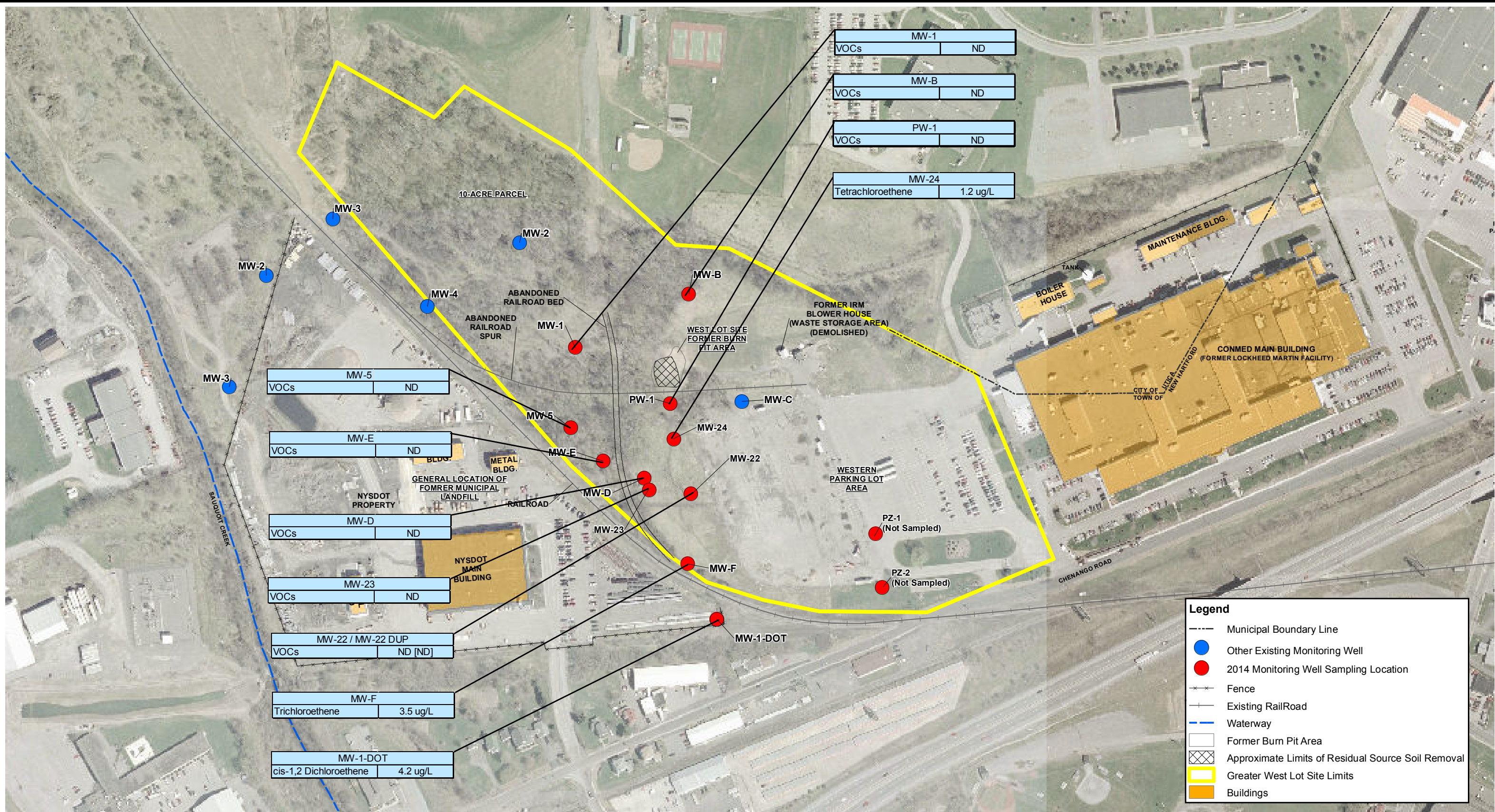
Project Number:
190500800

Figure:
3

Groundwater Contours

March 2014
Continued Investigation Activities
West Lot Site / Former Lockheed Martin French Road Facility
Utica, New York





Legend

- Municipal Boundary Line
- Other Existing Monitoring Well
- 2014 Monitoring Well Sampling Location
- Fence
- Existing Railroad
- Waterway
- Former Burn Pit Area
- Approximate Limits of Residual Source Soil Removal
- Greater West Lot Site Limits
- Buildings

Source Notes: ArcGIS Version: ArcInfo 10.1
Aerial taken in 2003 Coordinate System: NAD 1983 StatePlane, New York Central, FIPS 3102
All samples were analyzed for TCL VOCs
ND = no analytes detected
[ND] = indicates results of field duplicate
Analytical results given in ug/L (Micrograms per Liter)

General Notes:
1.) Base map adapted from drawing entitled: "Monitoring Well Network, West Lot Site, Former Lockheed Martin French Road Facility, Utica, New York," by ARCADIS, dated Sept. 19, 2013

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Server: Rochester
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Last Edited By: aless

Checked By: B. Mahoney

Project Manager: P. Nielsen

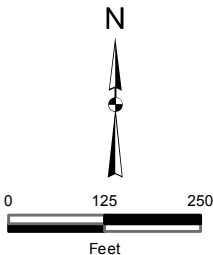
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Project Number: 190500800

Figure: 4

Groundwater Monitoring Data

March 2014
Continued Investigation Activities
West Lot Site / Former Lockheed Martin French Road Facility
Utica, New York



ATTACHMENT 1

Laboratory Report



04/01/14

Technical Report for

Stantec Consulting Corporation

LMC - Utica West Lot

Accutest Job Number: MC29101

Sampling Date: 03/19/14

Report to:

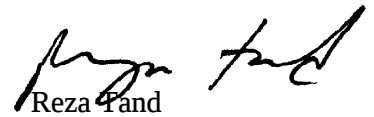
Stantec Consulting Corporation
61 Commercial Street
Rochester, NY 14614
bob.mahoney@stantec.com

ATTN: Bob Mahoney

Total number of pages in report: **219**



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 Fand
Lab Director

Client Service contact: Matthew Morrell 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)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Stantec Consulting Corporation

Job No: MC29101

LMC - Utica West Lot

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC29101-1	03/19/14	11:45 BH	03/21/14	AQ	Ground Water	MW-1
MC29101-2	03/19/14	14:30 BH	03/21/14	AQ	Ground Water	MW-1(DOT)
MC29101-3	03/19/14	12:15 BH	03/21/14	AQ	Ground Water	MW-5
MC29101-4	03/19/14	13:30 BH	03/21/14	AQ	Ground Water	MW-22
MC29101-5	03/19/14	13:35 BH	03/21/14	AQ	Ground Water	MW-22FD
MC29101-6	03/19/14	13:15 BH	03/21/14	AQ	Ground Water	MW-23
MC29101-7	03/19/14	12:45 BH	03/21/14	AQ	Ground Water	MW-24
MC29101-8	03/19/14	11:30 BH	03/21/14	AQ	Ground Water	MW-B
MC29101-9	03/19/14	13:00 BH	03/21/14	AQ	Ground Water	MW-D
MC29101-10	03/19/14	12:30 BH	03/21/14	AQ	Ground Water	MW-E
MC29101-11	03/19/14	14:15 BH	03/21/14	AQ	Ground Water	MW-F
MC29101-12	03/19/14	12:00 BH	03/21/14	AQ	Ground Water	PW-1
MC29101-13	03/19/14	16:00 BH	03/21/14	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Stantec Consulting Corporation

Job No MC29101

Site: LMC - Utica West Lot

Report Date 4/1/2014 11:35:15 AM

12 Sample(s) and 1 Trip Blank(s) were collected on 03/19/2014 and were received at Accutest on 03/21/2014 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of MC29101. 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: MSV1088

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC29163-1MS, MC29163-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Acetone, Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Butanone (MEK), 2-Hexanone, Acetone, Dichlorodifluoromethane, Naphthalene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2-Butanone (MEK), 2-Hexanone, Acetone, Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,2,3-Trichlorobenzene, Naphthalene are outside control limits for sample MC29163-1MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.

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 (MC29101).

Summary of Hits

Job Number: MC29101
Account: Stantec Consulting Corporation
Project: LMC - Utica West Lot
Collected: 03/19/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
--------------------------	------------------	-----------------	----	-----	-------	--------

MC29101-1 **MW-1**

No hits reported in this sample.

MC29101-2 **MW-1(DOT)**

cis-1,2-Dichloroethene	4.2	1.0	0.54	ug/l	SW846 8260C
------------------------	-----	-----	------	------	-------------

MC29101-3 **MW-5**

No hits reported in this sample.

MC29101-4 **MW-22**

No hits reported in this sample.

MC29101-5 **MW-22FD**

No hits reported in this sample.

MC29101-6 **MW-23**

No hits reported in this sample.

MC29101-7 **MW-24**

Tetrachloroethene	1.2	1.0	0.61	ug/l	SW846 8260C
-------------------	-----	-----	------	------	-------------

MC29101-8 **MW-B**

No hits reported in this sample.

MC29101-9 **MW-D**

No hits reported in this sample.

MC29101-10 **MW-E**

No hits reported in this sample.

MC29101-11 **MW-F**

Trichloroethene	3.5	1.0	0.45	ug/l	SW846 8260C
-----------------	-----	-----	------	------	-------------

Summary of Hits

Job Number: MC29101
Account: Stantec Consulting Corporation
Project: LMC - Utica West Lot
Collected: 03/19/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC29101-12 PW-1

No hits reported in this sample.

MC29101-13 TRIP BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

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Client Sample ID:	MW-1	
Lab Sample ID:	MC29101-1	Date Sampled: 03/19/14
Matrix:	AQ - Ground Water	Date Received: 03/21/14
Method:	SW846 8260C	Percent Solids: n/a
Project:	LMC - Utica West Lot	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29038.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: MW-1
Lab Sample ID: MC29101-1
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: LMC - Utica West Lot

Date Sampled: 03/19/14

Date Received: 03/21/14

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-1	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-1	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

ND = Not detected MDL = Method Detection Limit
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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

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Client Sample ID:	MW-1(DOT)	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-2	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29039.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.2	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1(DOT)	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-2	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	82%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-1(DOT)	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-2	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Client Sample ID:	MW-5	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-3	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29040.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-5	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-3	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-5	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-3	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Client Sample ID:	MW-22	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-4	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29041.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-4	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: MW-22
Lab Sample ID: MC29101-4
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: LMC - Utica West Lot

Date Sampled: 03/19/14
Date Received: 03/21/14
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-22FD	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-5	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29042.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22FD	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-5	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: MW-22FD
Lab Sample ID: MC29101-5
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: LMC - Utica West Lot

Date Sampled: 03/19/14
Date Received: 03/21/14
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-23	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-6	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29043.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-6	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-23	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-6	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-24	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-7	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29044.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-24	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-7	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	1.2	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-24	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-7	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-B	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-8	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29045.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-B	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-8	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: MW-B
Lab Sample ID: MC29101-8
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: LMC - Utica West Lot

Date Sampled: 03/19/14
Date Received: 03/21/14
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-D	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-9	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29046.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-D	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-9	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: MW-D
Lab Sample ID: MC29101-9
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: LMC - Utica West Lot

Date Sampled: 03/19/14
Date Received: 03/21/14
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-E	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-10	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29047.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-E	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-10	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	MW-E	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-10	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	MW-F	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-11	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29048.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-F	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-11	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	3.5	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: MW-F
Lab Sample ID: MC29101-11
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: LMC - Utica West Lot

Date Sampled: 03/19/14
Date Received: 03/21/14
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

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Report of Analysis

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Client Sample ID:	PW-1	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-12	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29049.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW-1	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-12	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	PW-1	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-12	Date Received:	03/21/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

Page 1 of 3

Client Sample ID:	TRIP BLANK	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-13	Date Received:	03/21/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V29030.D	1	03/25/14	AMY	n/a	n/a	MSV1088
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-13	Date Received:	03/21/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	77%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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	Date Sampled:	03/19/14
Lab Sample ID:	MC29101-13	Date Received:	03/21/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	LMC - Utica West Lot		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

FED-EX Tracking # 		Bottle Order Control # 	
Accutest Quote # 		Accutest Job # MC29101	

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes															
Company Name Stantec		Project Name LMC - Utica West Lot		VOC 8260													DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OT - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank														
Street Address 61 Commercial St.		Street 																													
City State Zip Rochester NY 14614		City 																													
Project Contact Bob Mahoney		Project # 190500800																													
Phone # 585 413 5301		Client PO# 190500800																													
Sample(s) Name(s) Ben Haravitch 585 978 5248		Project Manager Peter Nielsen		Attention: Ben Haravitch		PO# 																									
Field ID / Point of Collection 		MECH/DI Vial # 		Collection 		Number of preserved Bottles 																									
Accutest Sample # 		Date 		Time 		Sampled by 		Matrix 		# of bottles 		HC 		NH3 		H2CO3 		H2BO4 		NO3 		NO2 		DI Water 		MECH 		ENCORE 		Residue 	
-1 MW-1		3/19/14		11:45		BH		GW		3		3																			
-2 MW-1 (DOT)				14:30																											
-3 MW-5				12:15																											
-4 MW-22				13:30																											
-5 MW-22 FD				13:35				FB																							
-6 MW-23				13:15																											
-7 MW-24				12:45																											
-8 MW-B				11:30																											
-9 MW-D				13:00																											
-10 MW-E				12:30																											
-11 MW-F				14:15																											
-12 PW-1				12:00																											

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		Approved By (Accutest PM): / Date: 		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		Comments / Special Instructions NYSDGC Compatible	
Emergency & Rush T/A data available VIA Lablink		Commercial "A" = Results Only Commercial "B" = Results + QC Summary					

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

Relinquished by Sampler: [Signature]	Date Time: 3/20 11:30	Received By: [Signature]	Relinquished By: [Signature]	Date Time: 3/21/14	Received By: [Signature]
Relinquished by Sampler: 	Date Time: 	Received By: 	Relinquished By: 	Date Time: 	Received By:
Relinquished by: 	Date Time: 	Received By: 	Custody Seal # 	☐ Intact ☐ Not intact	Preserved where applicable ☐
				On Ice ☒	Cooler Temp. 1.0 C

MC29101: Chain of Custody

Page 1 of 3

Client / Reporting Information Company Name: <u>Stantec</u> Street Address: <u>61 Commercial St</u> City: <u>Rochester</u> State: <u>NY</u> Zip: <u>14614</u> Project Contact: <u>Bob Mahoney</u> E-mail: <u>bob.mahoney@stantec.com</u> Phone #: <u>585-413-5301</u> Fax #: <u></u> Sampler(s) Name(s): <u>Ben Haravitch</u> Phone #: <u>585-9785-248</u>		Project Information Project Name: <u>LMC - Utica West Lot</u> Street: <u></u> Billing Information (If different from Report to): Company Name: <u></u> Street Address: <u></u> City: <u></u> State: <u></u> Zip: <u></u> Project #: <u>1905-00800</u> Client PO#: <u></u> Project Manager: <u>Peter Nielsen</u> Attention: <u>Ben Haravitch</u> PO#: <u></u>		Requested Analysis (see TEST CODE sheet) FED-EX Tracking #: <u></u> Bottle Order Control #: <u></u> Accutest Quote #: <u></u> Accutest Job #: <u>mc29101</u> Matrix Codes: DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Waste FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Accutest Sample #: <u>-13</u> Field ID / Point of Collection: <u>Trip Blank</u> MECH/DI Vial #: <u></u> Date: <u>3/19/14</u> Time: <u>1600</u> Sampled by: <u>BH</u> Matrix: <u>TB</u> # of bottles: <u>3</u>	Number of preserved B-tiles: HCl <u>3</u> NH4 <u>3</u> NH3 <u>3</u> H2SO4 <u>3</u> NONE <u>3</u> DI Water <u>3</u> MECH <u>3</u> ENCORE <u>3</u> Burette <u>3</u> VOC <u>8260</u> LAB USE ONLY				
Data Deliverable Information 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 Approved By (Accutest PM): / Date: <u></u> ☐ 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 <u>NYSPEC</u> ☐ Other <u>Comphibic</u> Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Comments / Special Instructions <u></u> <u></u> <u></u>			
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sampler: <u>Ben Haravitch</u> Date Time: <u>3/20 11:30</u> Relinquished by Sampler: <u></u> Date Time: <u></u> Relinquished by Sampler: <u></u> Date Time: <u></u>	Received By: <u>Fey</u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u>	Relinquished By: <u>Fey</u> Date Time: <u>3/20 11:30</u> Relinquished By: <u></u> Date Time: <u></u> Relinquished By: <u></u> Date Time: <u></u>	Received By: <u></u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u> Received By: <u></u> Date Time: <u></u>		
Custody Seal # <u></u> ☐ Intact ☐ Not intact		Preserved where applicable ☐ On Ice ☒ Cooler Temp. <u>1-0 c</u>			

MC29101: Chain of Custody

Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC29101 **Client:** STANTEC **Immediate Client Services Action Required:** No
Date / Time Received: 3/21/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: LMC UTICA WEST LOT **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **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. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

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

Internal Sample Tracking Chronicle

Stantec Consulting Corporation

Job No: MC29101

LMC - Utica West Lot

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC29101-1 Collected: 19-MAR-14 11:45 By: BH Received: 21-MAR-14 By: MW-1						
MC29101-1	SW846 8260C	25-MAR-14 15:27	AMY			V8260STD
MC29101-2 Collected: 19-MAR-14 14:30 By: BH Received: 21-MAR-14 By: MW-1(DOT)						
MC29101-2	SW846 8260C	25-MAR-14 15:53	AMY			V8260STD
MC29101-3 Collected: 19-MAR-14 12:15 By: BH Received: 21-MAR-14 By: MW-5						
MC29101-3	SW846 8260C	25-MAR-14 16:20	AMY			V8260STD
MC29101-4 Collected: 19-MAR-14 13:30 By: BH Received: 21-MAR-14 By: MW-22						
MC29101-4	SW846 8260C	25-MAR-14 16:46	AMY			V8260STD
MC29101-5 Collected: 19-MAR-14 13:35 By: BH Received: 21-MAR-14 By: MW-22FD						
MC29101-5	SW846 8260C	25-MAR-14 17:12	AMY			V8260STD
MC29101-6 Collected: 19-MAR-14 13:15 By: BH Received: 21-MAR-14 By: MW-23						
MC29101-6	SW846 8260C	25-MAR-14 17:38	AMY			V8260STD
MC29101-7 Collected: 19-MAR-14 12:45 By: BH Received: 21-MAR-14 By: MW-24						
MC29101-7	SW846 8260C	25-MAR-14 18:04	AMY			V8260STD
MC29101-8 Collected: 19-MAR-14 11:30 By: BH Received: 21-MAR-14 By: MW-B						
MC29101-8	SW846 8260C	25-MAR-14 18:30	AMY			V8260STD

Internal Sample Tracking Chronicle

Stantec Consulting Corporation

Job No: MC29101

LMC - Utica West Lot

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC29101-9 Collected: 19-MAR-14 13:00 By: BH Received: 21-MAR-14 By: MW-D						
MC29101-9	SW846 8260C	25-MAR-14 18:56	AMY			V8260STD
MC29101-10 Collected: 19-MAR-14 12:30 By: BH Received: 21-MAR-14 By: MW-E						
MC29101-10	SW846 8260C	25-MAR-14 19:22	AMY			V8260STD
MC29101-11 Collected: 19-MAR-14 14:15 By: BH Received: 21-MAR-14 By: MW-F						
MC29101-11	SW846 8260C	25-MAR-14 19:48	AMY			V8260STD
MC29101-12 Collected: 19-MAR-14 12:00 By: BH Received: 21-MAR-14 By: PW-1						
MC29101-12	SW846 8260C	25-MAR-14 20:14	AMY			V8260STD
MC29101-13 Collected: 19-MAR-14 16:00 By: BH Received: 21-MAR-14 By: TRIP BLANK						
MC29101-13	SW846 8260C	25-MAR-14 11:56	AMY			V8260STD

Accutest Internal Chain of Custody

Page 1 of 2

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot
Received: 03/21/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC29101-1.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-1.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-1.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-1.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-2.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-2.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-2.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-2.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-3.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-3.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-3.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-3.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-4.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-4.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-4.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-4.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-5.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-5.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-5.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-5.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-6.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-6.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-6.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-6.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-7.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-7.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-7.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-7.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-8.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-8.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-8.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-8.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-9.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-9.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-9.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-9.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage

Accutest Internal Chain of Custody

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Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot
Received: 03/21/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC29101-10.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-10.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-10.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-10.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-11.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-11.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-11.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-11.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-12.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-12.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-12.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-12.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage
MC29101-13.1	VOC Ref #2	Amy Min Yang	03/25/14 11:11	Retrieve from Storage
MC29101-13.1	Amy Min Yang	GCMSV	03/25/14 11:11	Load on Instrument
MC29101-13.1	GCMSV	Amy Min Yang	03/26/14 12:26	Unload from Instrument
MC29101-13.1	Amy Min Yang	VOC Ref #2	03/26/14 12:26	Return to Storage

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

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Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1088-MB	V29029.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	4.6	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.54	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.58	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.87	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.77	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.55	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	4.3	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.97	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	

Method Blank Summary

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Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1088-MB	V29029.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.9	ug/l	
74-88-4	Iodomethane	ND	5.0	1.3	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.64	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.55	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.43	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.59	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.46	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.76	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.45	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
	m,p-Xylene	ND	1.0	0.91	ug/l	
95-47-6	o-Xylene	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

Method Blank Summary

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1088-MB	V29029.D	1	03/25/14	AMY	n/a	n/a	MSV1088

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

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	76% 70-130%
2037-26-5	Toluene-D8	88% 70-130%
460-00-4	4-Bromofluorobenzene	89% 70-130%

Blank Spike Summary

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1088-B5	V29026.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	32.5	65* a	70-130
71-43-2	Benzene	50	46.1	92	70-130
108-86-1	Bromobenzene	50	52.8	106	70-130
74-97-5	Bromochloromethane	50	44.1	88	70-130
75-27-4	Bromodichloromethane	50	44.4	89	70-130
75-25-2	Bromoform	50	42.8	86	70-130
74-83-9	Bromomethane	50	38.3	77	70-130
78-93-3	2-Butanone (MEK)	50	40.2	80	70-130
104-51-8	n-Butylbenzene	50	52.4	105	70-130
135-98-8	sec-Butylbenzene	50	54.5	109	70-130
98-06-6	tert-Butylbenzene	50	50.6	101	70-130
75-15-0	Carbon disulfide	50	43.0	86	70-130
56-23-5	Carbon tetrachloride	50	47.8	96	70-130
108-90-7	Chlorobenzene	50	48.7	97	70-130
75-00-3	Chloroethane	50	41.8	84	70-130
67-66-3	Chloroform	50	41.4	83	70-130
74-87-3	Chloromethane	50	38.7	77	70-130
95-49-8	o-Chlorotoluene	50	50.3	101	70-130
106-43-4	p-Chlorotoluene	50	50.4	101	70-130
96-12-8	1,2-Dibromo-3-chloropropane	50	37.7	75	70-130
124-48-1	Dibromochloromethane	50	45.0	90	70-130
106-93-4	1,2-Dibromoethane	50	49.0	98	70-130
95-50-1	1,2-Dichlorobenzene	50	47.5	95	70-130
541-73-1	1,3-Dichlorobenzene	50	50.0	100	70-130
106-46-7	1,4-Dichlorobenzene	50	49.4	99	70-130
75-71-8	Dichlorodifluoromethane	50	29.8	60* a	70-130
75-34-3	1,1-Dichloroethane	50	44.3	89	70-130
107-06-2	1,2-Dichloroethane	50	40.7	81	70-130
75-35-4	1,1-Dichloroethene	50	48.5	97	70-130
156-59-2	cis-1,2-Dichloroethene	50	45.4	91	70-130
156-60-5	trans-1,2-Dichloroethene	50	45.8	92	70-130
78-87-5	1,2-Dichloropropane	50	48.1	96	70-130
142-28-9	1,3-Dichloropropane	50	47.4	95	70-130
594-20-7	2,2-Dichloropropane	50	43.7	87	70-130
563-58-6	1,1-Dichloropropene	50	47.6	95	70-130
10061-01-5	cis-1,3-Dichloropropene	50	43.2	86	70-130

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1088-B5	V29026.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	54.4	109	70-130
100-41-4	Ethylbenzene	50	52.2	104	70-130
87-68-3	Hexachlorobutadiene	50	47.1	94	70-130
591-78-6	2-Hexanone	50	39.2	78	70-130
74-88-4	Iodomethane	50	41.1	82	70-130
98-82-8	Isopropylbenzene	50	54.7	109	70-130
99-87-6	p-Isopropyltoluene	50	54.6	109	70-130
1634-04-4	Methyl Tert Butyl Ether	50	42.9	86	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.0	84	70-130
74-95-3	Methylene bromide	50	44.0	88	70-130
75-09-2	Methylene chloride	50	43.6	87	70-130
91-20-3	Naphthalene	50	50.4	101	70-130
103-65-1	n-Propylbenzene	50	51.8	104	70-130
100-42-5	Styrene	50	53.3	107	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	51.4	103	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.4	101	70-130
127-18-4	Tetrachloroethene	50	53.6	107	70-130
108-88-3	Toluene	50	51.0	102	70-130
87-61-6	1,2,3-Trichlorobenzene	50	50.5	101	70-130
120-82-1	1,2,4-Trichlorobenzene	50	46.7	93	70-130
71-55-6	1,1,1-Trichloroethane	50	45.2	90	70-130
79-00-5	1,1,2-Trichloroethane	50	47.6	95	70-130
79-01-6	Trichloroethene	50	45.7	91	70-130
75-69-4	Trichlorofluoromethane	50	40.9	82	70-130
96-18-4	1,2,3-Trichloropropane	50	58.4	117	70-130
95-63-6	1,2,4-Trimethylbenzene	50	52.1	104	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.0	108	70-130
108-05-4	Vinyl Acetate	50	40.6	81	70-130
75-01-4	Vinyl chloride	50	38.4	77	70-130
	m,p-Xylene	100	105	105	70-130
95-47-6	o-Xylene	50	52.4	105	70-130
1330-20-7	Xylene (total)	150	157	105	70-130

* = Outside of Control Limits.

Blank Spike Summary

Page 3 of 3

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1088-BS	V29026.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	76%	70-130%
2037-26-5	Toluene-D8	89%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: MC29101

Account: STANNYR Stantec Consulting Corporation

Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC29163-1MS	V29050.D	5	03/25/14	AMY	n/a	n/a	MSV1088
MC29163-1MSD	V29051.D	5	03/25/14	AMY	n/a	n/a	MSV1088
MC29163-1	V29035.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Compound	MC29163-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	250	104	42* a	113	45* a	8	70-130/30
71-43-2	Benzene	ND	250	211	84	216	86	2	70-130/30
108-86-1	Bromobenzene	ND	250	236	94	248	99	5	70-130/30
74-97-5	Bromochloromethane	ND	250	203	81	209	84	3	70-130/30
75-27-4	Bromodichloromethane	ND	250	244	98	243	97	0	70-130/30
75-25-2	Bromoform	ND	250	216	86	217	87	0	70-130/30
74-83-9	Bromomethane	ND	250	203	81	209	84	3	70-130/30
78-93-3	2-Butanone (MEK)	ND	250	160	64* a	159	64* a	1	70-130/30
104-51-8	n-Butylbenzene	ND	250	245	98	256	102	4	70-130/30
135-98-8	sec-Butylbenzene	ND	250	250	100	264	106	5	70-130/30
98-06-6	tert-Butylbenzene	ND	250	260	104	271	108	4	70-130/30
75-15-0	Carbon disulfide	ND	250	196	78	201	80	3	70-130/30
56-23-5	Carbon tetrachloride	ND	250	288	115	280	112	3	70-130/30
108-90-7	Chlorobenzene	ND	250	222	89	229	92	3	70-130/30
75-00-3	Chloroethane	ND	250	212	85	225	90	6	70-130/30
67-66-3	Chloroform	ND	250	215	86	221	88	3	70-130/30
74-87-3	Chloromethane	ND	250	203	81	208	83	2	70-130/30
95-49-8	o-Chlorotoluene	ND	250	236	94	246	98	4	70-130/30
106-43-4	p-Chlorotoluene	ND	250	243	97	251	100	3	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	181	72	208	83	14	70-130/30
124-48-1	Dibromochloromethane	ND	250	229	92	231	92	1	70-130/30
106-93-4	1,2-Dibromoethane	ND	250	221	88	230	92	4	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	250	212	85	225	90	6	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	250	221	88	235	94	6	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	250	221	88	232	93	5	70-130/30
75-71-8	Dichlorodifluoromethane	ND	250	145	58* a	146	58* a	1	70-130/30
75-34-3	1,1-Dichloroethane	ND	250	210	84	218	87	4	70-130/30
107-06-2	1,2-Dichloroethane	ND	250	241	96	240	96	0	70-130/30
75-35-4	1,1-Dichloroethene	ND	250	225	90	225	90	0	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND	250	207	83	213	85	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND	250	207	83	216	86	4	70-130/30
78-87-5	1,2-Dichloropropane	ND	250	222	89	220	88	1	70-130/30
142-28-9	1,3-Dichloropropane	ND	250	220	88	227	91	3	70-130/30
594-20-7	2,2-Dichloropropane	ND	250	210	84	212	85	1	70-130/30
563-58-6	1,1-Dichloropropene	ND	250	242	97	240	96	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	194	78	199	80	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC29163-1MS	V29050.D	5	03/25/14	AMY	n/a	n/a	MSV1088
MC29163-1MSD	V29051.D	5	03/25/14	AMY	n/a	n/a	MSV1088
MC29163-1	V29035.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Compound	MC29163-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	265	106	269	108	1	70-130/30
100-41-4	Ethylbenzene	ND		250	249	100	251	100	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	208	83	228	91	9	70-130/30
591-78-6	2-Hexanone	ND		250	160	64* a	166	66* a	4	70-130/30
74-88-4	Iodomethane	ND		250	193	77	199	80	3	70-130/30
98-82-8	Isopropylbenzene	ND		250	255	102	265	106	4	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	256	102	267	107	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	204	82	208	83	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	196	78	194	78	1	70-130/30
74-95-3	Methylene bromide	ND		250	232	93	231	92	0	70-130/30
75-09-2	Methylene chloride	ND		250	197	79	204	82	3	70-130/30
91-20-3	Naphthalene	ND		250	144	58* a	230	92	46* b	70-130/30
103-65-1	n-Propylbenzene	ND		250	240	96	251	100	4	70-130/30
100-42-5	Styrene	ND		250	237	95	241	96	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	262	105	268	107	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	221	88	234	94	6	70-130/30
127-18-4	Tetrachloroethene	1.9		250	249	99	249	99	0	70-130/30
108-88-3	Toluene	ND		250	239	96	239	96	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	159	64* a	241	96	41* b	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	171	68* a	218	87	24	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	254	102	254	102	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	225	90	225	90	0	70-130/30
79-01-6	Trichloroethene	ND		250	230	92	230	92	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	245	98	241	96	2	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	211	84	228	91	8	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	248	99	258	103	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	257	103	266	106	3	70-130/30
108-05-4	Vinyl Acetate	ND		250	194	78	201	80	4	70-130/30
75-01-4	Vinyl chloride	ND		250	189	76	196	78	4	70-130/30
	m,p-Xylene	ND		500	479	96	483	97	1	70-130/30
95-47-6	o-Xylene	ND		250	236	94	243	97	3	70-130/30
1330-20-7	Xylene (total)	ND		750	716	95	726	97	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC29163-1MS	V29050.D	5	03/25/14	AMY	n/a	n/a	MSV1088
MC29163-1MSD	V29051.D	5	03/25/14	AMY	n/a	n/a	MSV1088
MC29163-1	V29035.D	1	03/25/14	AMY	n/a	n/a	MSV1088

The QC reported here applies to the following samples:

Method: SW846 8260C

MC29101-1, MC29101-2, MC29101-3, MC29101-4, MC29101-5, MC29101-6, MC29101-7, MC29101-8, MC29101-9, MC29101-10, MC29101-11, MC29101-12, MC29101-13

CAS No.	Surrogate Recoveries	MS	MSD	MC29163-1	Limits
1868-53-7	Dibromofluoromethane	83%	83%	81%	70-130%
2037-26-5	Toluene-D8	90%	88%	88%	70-130%
460-00-4	4-Bromofluorobenzene	92%	93%	92%	70-130%

- (a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1058-BFB	Injection Date: 02/26/14
Lab File ID: V28201.D	Injection Time: 13:50
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	43757	19.6	Pass
75	30.0 - 60.0% of mass 95	112859	50.6	Pass
95	Base peak, 100% relative abundance	223104	100.0	Pass
96	5.0 - 9.0% of mass 95	14499	6.50	Pass
173	Less than 2.0% of mass 174	1929	0.86 (1.04) ^a	Pass
174	50.0 - 100.0% of mass 95	185195	83.0	Pass
175	5.0 - 9.0% of mass 174	13798	6.18 (7.45) ^a	Pass
176	95.0 - 101.0% of mass 174	178539	80.0 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	11776	5.28 (6.60) ^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
MSV1058-IC1058	V28203.D	02/26/14	14:42	00:52	Initial cal 0.25
MSV1058-IC1058	V28204.D	02/26/14	15:08	01:18	Initial cal 0.5
MSV1058-IC1058	V28205.D	02/26/14	15:34	01:44	Initial cal 1
MSV1058-IC1058	V28206.D	02/26/14	16:01	02:11	Initial cal 2
MSV1058-IC1058	V28207.D	02/26/14	16:27	02:37	Initial cal 5
MSV1058-IC1058	V28208.D	02/26/14	16:53	03:03	Initial cal 10
MSV1058-ICC1058	V28209.D	02/26/14	17:20	03:30	Initial cal 50
MSV1058-IC1058	V28210.D	02/26/14	17:46	03:56	Initial cal 100
MSV1058-IC1058	V28211.D	02/26/14	18:12	04:22	Initial cal 200
MSV1058-IC1058	V28212.D	02/26/14	18:37	04:47	Initial cal 400

Instrument Performance Check (BFB)

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1058-BFB
Lab File ID: V28221.D
Instrument ID: GCMSV
Injection Date: 02/27/14
Injection Time: 11:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	30301	21.5	Pass
75	30.0 - 60.0% of mass 95	76773	54.5	Pass
95	Base peak, 100% relative abundance	140800	100.0	Pass
96	5.0 - 9.0% of mass 95	9892	7.03	Pass
173	Less than 2.0% of mass 174	531	0.38 (0.47) ^a	Pass
174	50.0 - 100.0% of mass 95	111797	79.4	Pass
175	5.0 - 9.0% of mass 174	8164	5.80 (7.30) ^a	Pass
176	95.0 - 101.0% of mass 174	106939	76.0 (95.7) ^a	Pass
177	5.0 - 9.0% of mass 176	6783	4.82 (6.34) ^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
MSV1058-CC1058	V28222.D	02/27/14	11:27	00:26	Continuing cal 50
MSV1058-ICV1058	V28222.D	02/27/14	11:27	00:26	Initial cal verification 50
MSV1058-BS	V28223.D	02/27/14	11:53	00:52	Blank Spike
MSV1058-MB	V28226.D	02/27/14	13:11	02:10	Method Blank
ZZZZZZ	V28227.D	02/27/14	13:37	02:36	(unrelated sample)
ZZZZZZ	V28228.D	02/27/14	14:03	03:02	(unrelated sample)
ZZZZZZ	V28229.D	02/27/14	14:29	03:28	(unrelated sample)
ZZZZZZ	V28230.D	02/27/14	14:56	03:55	(unrelated sample)
ZZZZZZ	V28231.D	02/27/14	15:22	04:21	(unrelated sample)
ZZZZZZ	V28232.D	02/27/14	15:48	04:47	(unrelated sample)
ZZZZZZ	V28233.D	02/27/14	16:14	05:13	(unrelated sample)
ZZZZZZ	V28234.D	02/27/14	16:40	05:39	(unrelated sample)
ZZZZZZ	V28235.D	02/27/14	17:06	06:05	(unrelated sample)
ZZZZZZ	V28236.D	02/27/14	17:32	06:31	(unrelated sample)
ZZZZZZ	V28237.D	02/27/14	17:58	06:57	(unrelated sample)
ZZZZZZ	V28238.D	02/27/14	18:24	07:23	(unrelated sample)
ZZZZZZ	V28239.D	02/27/14	18:49	07:48	(unrelated sample)
ZZZZZZ	V28240.D	02/27/14	19:15	08:14	(unrelated sample)
ZZZZZZ	V28241.D	02/27/14	19:41	08:40	(unrelated sample)
ZZZZZZ	V28242.D	02/27/14	20:08	09:07	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1088-BFB **Injection Date:** 03/25/14
Lab File ID: V29025.D **Injection Time:** 09:38
Instrument ID: GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	28171	19.2	Pass
75	30.0 - 60.0% of mass 95	72443	49.2	Pass
95	Base peak, 100% relative abundance	147093	100.0	Pass
96	5.0 - 9.0% of mass 95	9678	6.58	Pass
173	Less than 2.0% of mass 174	1087	0.74 (0.84) ^a	Pass
174	50.0 - 100.0% of mass 95	129371	88.0	Pass
175	5.0 - 9.0% of mass 174	9549	6.49 (7.38) ^a	Pass
176	95.0 - 101.0% of mass 174	125507	85.3 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	8058	5.48 (6.42) ^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
MSV1088-CC1058	V29025.D	03/25/14	09:38	00:00	Continuing cal 50
MSV1088-BS	V29026.D	03/25/14	10:04	00:26	Blank Spike
MSV1088-MB	V29029.D	03/25/14	11:23	01:45	Method Blank
MC29101-13	V29030.D	03/25/14	11:56	02:18	TRIP BLANK
ZZZZZZ	V29031.D	03/25/14	12:23	02:45	(unrelated sample)
ZZZZZZ	V29032.D	03/25/14	12:49	03:11	(unrelated sample)
ZZZZZZ	V29033.D	03/25/14	13:15	03:37	(unrelated sample)
ZZZZZZ	V29034.D	03/25/14	13:41	04:03	(unrelated sample)
MC29163-1	V29035.D	03/25/14	14:08	04:30	(used for QC only; not part of job MC29101)
ZZZZZZ	V29036.D	03/25/14	14:34	04:56	(unrelated sample)
MC29101-1	V29038.D	03/25/14	15:27	05:49	MW-1
MC29101-2	V29039.D	03/25/14	15:53	06:15	MW-1(DOT)
MC29101-3	V29040.D	03/25/14	16:20	06:42	MW-5
MC29101-4	V29041.D	03/25/14	16:46	07:08	MW-22
MC29101-5	V29042.D	03/25/14	17:12	07:34	MW-22FD
MC29101-6	V29043.D	03/25/14	17:38	08:00	MW-23
MC29101-7	V29044.D	03/25/14	18:04	08:26	MW-24
MC29101-8	V29045.D	03/25/14	18:30	08:52	MW-B
MC29101-9	V29046.D	03/25/14	18:56	09:18	MW-D
MC29101-10	V29047.D	03/25/14	19:22	09:44	MW-E
MC29101-11	V29048.D	03/25/14	19:48	10:10	MW-F
MC29101-12	V29049.D	03/25/14	20:14	10:36	PW-1
MC29163-1MS	V29050.D	03/25/14	20:40	11:02	Matrix Spike
MC29163-1MSD	V29051.D	03/25/14	21:06	11:28	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Check Std:	MSV1088-CC1058	Injection Date:	03/25/14
Lab File ID:	V29025.D	Injection Time:	09:38
Instrument ID:	GCMSV	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	429248	6.54	578528	7.73	267427	11.07	271362	13.28	55829	3.49
Upper Limit ^a	858496	7.04	1157056	8.23	534854	11.57	542724	13.78	111658	3.99
Lower Limit ^b	214624	6.04	289264	7.23	133714	10.57	135681	12.78	27915	2.99

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1088-BS	440413	6.54	601475	7.73	279607	11.07	282677	13.28	60510	3.49
MSV1088-MB	372112	6.54	507664	7.73	236689	11.07	238496	13.29	45928	3.49
MC29101-13	370155	6.54	509610	7.73	230107	11.07	224991	13.29	45052	3.49
ZZZZZZ	341257	6.54	468512	7.73	216736	11.07	215415	13.29	40563	3.49
ZZZZZZ	333312	6.55	453260	7.73	217503	11.07	213345	13.29	40090	3.49
ZZZZZZ	313179	6.54	437986	7.73	208619	11.07	207619	13.29	40113	3.49
ZZZZZZ	321330	6.55	435149	7.73	206260	11.07	208841	13.29	41657	3.49
MC29163-1	298136	6.55	409883	7.73	197486	11.07	196303	13.29	37082	3.49
ZZZZZZ	284765	6.54	396264	7.73	187520	11.07	187266	13.29	37966	3.49
MC29101-1	273181	6.55	375973	7.73	181238	11.08	178571	13.29	35788	3.49
MC29101-2	282094	6.55	381106	7.73	184216	11.08	177950	13.29	36043	3.50
MC29101-3	265038	6.55	364878	7.73	174851	11.08	174513	13.29	35724	3.50
MC29101-4	269992	6.55	368210	7.74	181117	11.08	171860	13.29	34735	3.50
MC29101-5	255971	6.55	347853	7.73	170428	11.08	165623	13.29	34218	3.50
MC29101-6	248124	6.55	341789	7.73	163835	11.08	162339	13.29	32066	3.50
MC29101-7	243103	6.55	333527	7.73	161095	11.08	157728	13.29	31063	3.49
MC29101-8	244797	6.55	332312	7.74	163520	11.08	160422	13.29	32299	3.50
MC29101-9	231782	6.55	317721	7.73	156306	11.08	153594	13.29	31431	3.49
MC29101-10	233607	6.55	323355	7.74	158923	11.08	157591	13.29	33378	3.50
MC29101-11	237019	6.56	324215	7.74	158365	11.08	152955	13.29	30839	3.50
MC29101-12	222778	6.55	300494	7.74	149629	11.08	149548	13.29	31630	3.49
MC29163-1MS	275947	6.55	366276	7.74	178057	11.08	186023	13.29	37181	3.50
MC29163-1MSD	285241	6.55	383766	7.74	182688	11.08	184852	13.29	36969	3.50

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

Page 1 of 1

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Method: SW846 8260C	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC29101-1	V29038.D	83	87	90
MC29101-2	V29039.D	82	86	93
MC29101-3	V29040.D	84	86	90
MC29101-4	V29041.D	84	88	93
MC29101-5	V29042.D	84	88	92
MC29101-6	V29043.D	85	86	91
MC29101-7	V29044.D	84	86	91
MC29101-8	V29045.D	85	87	92
MC29101-9	V29046.D	86	86	92
MC29101-10	V29047.D	86	87	91
MC29101-11	V29048.D	86	86	93
MC29101-12	V29049.D	87	87	91
MC29101-13	V29030.D	77	84	91
MC29163-1MS	V29050.D	83	90	92
MC29163-1MSD	V29051.D	83	88	93
MSV1088-BS	V29026.D	76	89	91
MSV1088-MB	V29029.D	76	88	89

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane
S2 = Toluene-D8
S3 = 4-Bromofluorobenzene

70-130%
70-130%
70-130%

6.6.1

6

Initial Calibration Summary

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1058-ICC1058
Lab FileID: V28209.D

Response Factor Report MSV

Method : C:\msdchem\1\METHODS\140226w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Calibration Files

0.25=v28203.D 0.5 =v28204.D 1 =v28205.D 2 =v28206.D
5 =v28207.D 10 =v28208.D 50 =v28209.D 100 =v28210.D
200 =v28211.D 400 =v28212.D = =

Compound	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 -----ISTD-----												
2) tertiary butyl alcohol				1.056	1.255	1.159	1.207	1.265	1.354	1.410	1.244	9.51
3) Ethanol				0.270	0.238	0.204	0.195	0.185	0.190	0.184	0.209	15.49
---- Linear regression ---- Coefficient = 0.9998												
Response Ratio = 0.03976 + 0.18551 *A												
4) I pentafluorobenzene -----ISTD-----												
5) dichlorodifluoromethane			1.027	1.337	1.191	1.463	1.569	1.512	1.431	1.359	1.361	13.08
6) chloromethane		0.944	0.987	1.055	0.993	1.088	1.130	1.075	1.052	1.040		5.88
7) vinyl chloride		0.832	0.875	0.945	0.961	1.038	1.067	1.018	1.012	0.968		8.44
8) bromomethane		0.732	0.821	0.865	0.800	0.851	0.863	0.811	0.767	0.814		5.78
9) chloroethane		0.574	0.490	0.497	0.444	0.463	0.468	0.444	0.435	0.477		9.47
10) ethyl ether		0.407	0.356	0.371	0.361	0.345	0.347	0.351	0.347	0.361		5.72
11) acetonitrile		0.882	0.823	0.811	0.825	0.889	0.911	0.946	0.959	0.881		6.47
12) trichlorofluoromethane		1.191	1.475	1.448	1.613	1.736	1.730	1.638	1.541	1.547		11.56
13) freon-113		0.875	0.691	0.706	0.711	0.862	0.844	0.874	0.836	0.800		10.25
14) acrolein				0.030	0.027	0.032	0.033	0.032	0.033	0.031#		7.24
15) 1,1-dichloroethene		0.647	0.627	0.629	0.616	0.641	0.642	0.659	0.642	0.638		2.08
16) acetone				0.037	0.037	0.042	0.036	0.029	0.036#			12.34
17) Methyl Acetate				0.210	0.195	0.208	0.203	0.211	0.213	0.207		3.19
18) methylene chloride		0.771	0.637	0.681	0.627	0.623	0.608	0.622	0.633	0.650		8.19
19) methyl tert butyl ether		1.115	1.079	1.137	1.116	1.162	1.190	1.254	1.322	1.172		6.92
20) acrylonitrile				0.104	0.112	0.109	0.108	0.113	0.114	0.110		3.52
21) allyl chloride		0.882	0.823	0.811	0.825	0.889	0.911	0.946	0.960	0.881		6.48

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Initial Calibration Summary

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22)	trans-1,2-dichloroethene	0.708	0.689	0.676	0.641	0.631	0.630	0.649	0.654	0.660	4.30
23)	iodomethane	1.797	1.740	1.671	1.635	1.598	1.594	1.620	1.630	1.661	4.36
24)	carbon disulfide	2.285	2.160	2.120	2.060	2.167	2.166	2.231	2.265	2.182	3.45
25)	propionitrile	0.008	0.024	0.031	0.032	0.035	0.036	0.028#			38.24
	---- Linear regression ----	Coefficient = 0.9990									
	Response Ratio = -0.00282 + 0.03547 *A										
26)	vinyl acetate	1.401	1.414	1.385	1.443	1.472	1.534	1.566	1.459		4.72
27)	chloroprene	0.835	0.744	0.761	0.777	0.850	0.855	0.891	0.881	0.824	6.82
28)	di-isopropyl ether	1.679	1.603	1.682	1.673	1.699	1.721	1.780	1.824	1.708	3.99
29)	methacrylonitrile	0.137	0.180	0.173	0.180	0.183	0.192	0.196	0.177		10.97
30)	2-butanone	0.025	0.032	0.034	0.037	0.035	0.034	0.033#			12.30
31)	Hexane	0.417	0.403	0.558	0.560	0.588	0.559	0.514			15.86
	---- Linear regression ----	Coefficient = 0.9992									
	Response Ratio = -0.00370 + 0.56543 *A										
32)	1,1-dichloroethane	1.241	1.135	1.127	1.077	1.089	1.090	1.135	1.146	1.130	4.56
33)	tert-butyl ethyl ether	1.191	1.105	1.159	1.157	1.258	1.299	1.390	1.461	1.252	9.92
34)	isobutyl alcohol	0.280	0.280	0.283	0.277	0.289	0.294	0.307	0.313	0.290	4.63
35)	2,2-dichloropropane	0.675	0.699	0.822	0.914	0.990	1.029	0.855			17.35
	---- Linear regression ----	Coefficient = 0.9972									
	Response Ratio = -0.05331 + 1.00465 *A										
36)	cis-1,2-dichloroethene	0.629	0.620	0.619	0.596	0.601	0.612	0.642	0.654	0.622	3.14
37)	ethyl acetate	1.414	1.385	1.444	1.470	1.533	1.563	1.468			4.69
38)	bromochloromethane	0.299	0.296	0.288	0.279	0.284	0.279	0.300	0.306	0.291	3.47
39)	chloroform	1.387	1.287	1.254	1.205	1.204	1.199	1.238	1.241	1.252	4.97
40)	dibromofluoromethane (s)	0.673	0.685	0.672	0.681	0.674	0.707	0.715	0.687		2.53
41)	Tetrahydrofuran	0.047	0.054	0.061	0.061	0.066	0.068	0.060			12.82
42)	1,1,1-trichloroethane	1.178	1.075	1.086	1.135	1.263	1.304	1.353	1.354	1.219	9.44
43) I	1,4-difluorobenzene	-----ISTD-----									
44)	Cyclohexane	0.769	0.585	0.544	0.619	0.609	0.636	0.618	0.626		11.19
45)	carbon tetrachloride	0.703	0.705	0.698	0.745	0.874	0.890	0.932	0.885	0.804	12.44
46)	1,1-dichloropropene	0.545	0.534	0.505	0.501	0.533	0.535	0.561	0.551	0.533	3.92
47)	benzene										

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	1.387	1.481	1.364	1.313	1.278	1.246	1.263	1.329	1.362	1.336	5.46
48)	1,2-dichloroethane										
		0.612	0.558	0.553	0.549	0.530	0.518	0.525	0.502	0.543	6.20
49)	tert-amyl methyl ether										
		0.527	0.507	0.551	0.545	0.602	0.628	0.687	0.716	0.595	12.85
50)	heptane										
				0.264	0.267	0.362	0.376	0.390	0.365	0.337	16.76
	---- Linear regression ----										

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	0.801	0.718	0.715	0.694	0.713	0.714	0.750	0.758	0.733	4.72	
69) dibromochloromethane	0.536	0.530	0.551	0.563	0.608	0.671	0.715	0.769	0.785	0.636	15.92
	---- Quadratic regression ---- Coefficient = 0.9992										
	Response Ratio = -0.00370 + 0.69454 *A + 0.01213 *A^2										
70) 1,2-dibromoethane	0.419	0.391	0.447	0.429	0.448	0.459	0.485	0.490	0.446	7.40	
71) 2-hexanone	0.265	0.233	0.222	0.220	0.267	0.241	0.227	0.239		8.20	
72) chlorobenzene	2.319	2.248	2.131	2.122	2.073	2.119	2.241	2.289	2.193	4.19	
73) 1,1,1,2-tetrachloroethane	0.814	0.766	0.806	0.817	0.893	0.952	1.009	1.042	0.887	11.65	
74) ethylbenzene	3.620	3.833	3.688	3.570	3.546	3.627	3.721	3.912	3.997	3.724	4.23
75) m,p-xylene	1.218	1.364	1.295	1.271	1.259	1.318	1.360	1.447	1.511	1.338	7.00
76) o-xylene	1.291	1.288	1.243	1.275	1.344	1.366	1.431	1.525	1.621	1.376	9.24
77) styrene	1.760	1.855	1.964	1.942	2.018	2.071	2.204	2.334	2.019	9.15	
78) bromoform	0.261	0.234	0.278	0.291	0.328	0.354	0.391	0.421	0.320	20.51	
	---- Quadratic regression ---- Coefficient = 0.9994										
	Response Ratio = -0.00322 + 0.33543 *A + 0.01111 *A^2										
79) trans-1,4-dichloro-2-butene	0.110	0.125	0.132	0.147	0.160	0.164	0.140			15.16	
	---- Linear regression ---- Coefficient = 0.9975										
	Response Ratio = -0.00749 + 0.16063 *A										
80) I 1,4-dichlorobenzene-d -----ISTD-----											
81) isopropylbenzene	3.491	3.323	3.278	3.534	3.924	4.076	4.260	3.905	3.724	9.81	
82) bromofluorobenzene (s)	1.034	0.998	1.004	0.990	1.005	1.024	0.948	1.000		2.77	
83) bromobenzene	0.856	0.824	0.819	0.838	0.841	0.867	0.886	0.849	0.847	2.60	
84) 1,1,2,2-tetrachloroethane	0.491	0.494	0.457	0.458	0.463	0.470	0.479	0.493	0.463	0.474	3.27
85) 1,2,3-trichloropropane	0.487	0.415	0.546	0.463	0.589	0.472	0.475	0.463	0.489	11.06	
86) n-propylbenzene	4.037	3.984	3.894	4.083	4.373	4.521	4.620	4.066	4.197	6.42	
87) 2-chlorotoluene	2.935	2.736	2.701	2.749	2.757	2.788	2.881	2.749	2.787	2.87	
88) 4-chlorotoluene	3.106	3.116	3.073	3.061	3.040	3.109	3.180	3.051	3.092	1.47	
89) 1,3,5-trimethylbenzene	2.861	2.872	2.930	3.048	3.321	3.489	3.670	3.546	3.217	10.21	
90) tert-butylbenzene	1.662	1.611	1.550	1.687	1.948	2.045	2.169	2.139	1.851	13.58	
91) 1,2,4-trimethylbenzene	2.970	2.968	3.050	3.182	3.324	3.436	3.608	3.568	3.263	7.95	
92) sec-butylbenzene	3.261	3.213	3.140	3.332	3.929	4.130	4.434	4.062	3.688	13.69	
93) 1,3-dichlorobenzene	1.988	1.809	1.788	1.770	1.743	1.800	1.891	1.898	1.836	4.47	

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94)	p-isopropyltoluene	2.970	2.920	2.886	3.103	3.453	3.622	3.888	3.794	3.330	12.30
95)	1,4-dichlorobenzene	2.036	1.855	1.756	1.710	1.636	1.689	1.788	1.846	1.789	6.99
96)	1,2-dichlorobenzene	2.020	1.697	1.667	1.641	1.626	1.657	1.770	1.816	1.737	7.59
97)	n-butylbenzene	2.831	2.632	2.454	2.644	2.995	3.146	3.283	3.273	2.907	10.84
98)	1,2-dibromo-3-chloropropane	0.057	0.063	0.070	0.077	0.084	0.086	0.073			15.74
	---- Linear regression ----	Coefficient = 0.9976									
	Response Ratio =	-0.00408 + 0.08441 *A									
99)	1,3,5-trichlorobenzene	1.470	1.397	1.227	1.181	1.217	1.275	1.375	1.431	1.322	8.31
100)	1,2,4-trichlorobenzene	1.530	1.127	0.969	0.968	0.935	1.005	1.083	1.126	1.093	17.52
	---- Linear regression ----	Coefficient = 0.9967									
	Response Ratio =	0.00080 + 1.08373 *A									
101)	hexachlorobutadiene	0.603	0.499	0.421	0.378	0.425	0.434	0.463	0.473	0.462	14.66
102)	naphthalene	1.372	1.153	1.197	1.186	1.381	1.530	1.613	1.348		13.28
103)	1,2,3-trichlorobenzene	0.796	0.751	0.655	0.751	0.800	0.839	0.765			8.28
104)	2-Methylnaphthalene	0.417	0.269	0.453	0.561	0.614	0.463				28.99
	---- Linear regression ----	Coefficient = 0.9951									
	Response Ratio =	-0.12859 + 0.63786 *A									
105)	1-Methylnaphthalene	0.383	0.222	0.346	0.413	0.426	0.358				22.87
	---- Linear regression ----	Coefficient = 0.9966									
	Response Ratio =	-0.06447 + 0.44061 *A									

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140226w.m Fri Feb 28 10:16:56 2014

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Initial Calibration Verification

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Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V140227\v28222.D Vial: 6
 Acq On : 27 Feb 2014 11:27 am Operator: amym
 Sample : icv1058-50 Inst : MSV
 Misc : MS31132,MSV1058,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140226w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Thu Feb 27 09:00:59 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	104	0.01	3.52
2 p	tertiary butyl alcohol	1.244	1.337	-7.5	115	0.00	3.63
3 p	Ethanol	5000.000	4442.260	11.2	90	0.00	2.50
4 I	pentafluorobenzene	1.000	1.000	0.0	109	0.01	6.58
5 p	dichlorodifluoromethane	1.361	1.611	-18.4	112	0.00	1.51
6 P	chloromethane	1.040	1.084	-4.2	108	0.00	1.62
7 p	vinyl chloride	0.968	0.974	-0.6	102	0.00	1.73
8 p	bromomethane	0.814	0.802	1.5	102	0.00	2.02
9 p	chloroethane	0.477	0.506	-6.1	119	0.00	2.11
10 p	ethyl ether	0.361	0.343	5.0	108	0.00	2.61
11 p	acetonitrile	0.881	0.920	-4.4	112	0.00	3.31
12 p	trichlorofluoromethane	1.547	1.719	-11.1	108	0.00	2.35
13 p	freon-113	0.800	0.849	-6.1	107	0.00	2.91
14 p	acrolein	0.031	0.030	3.2	95	0.00	2.76
15 p	1,1-dichloroethene	0.638	0.656	-2.8	111	0.00	2.88
16 p	acetone	0.036	0.043#	-19.4	126	0.00	2.91
17 p	Methyl Acetate	0.207	0.231	-11.6	120	0.00	3.29
18 p	methylene chloride	0.650	0.625	3.8	109	0.00	3.48
19 p	methyl tert butyl ether	1.172	1.155	1.5	108	0.01	3.85
20 p	acrylonitrile	0.110	0.086	21.8#	86	0.00	3.79
21 p	allyl chloride	0.881	0.921	-4.5	113	0.00	3.31
22 p	trans-1,2-dichloroethene	0.660	0.664	-0.6	114	0.00	3.85
23 p	iodomethane	1.661	1.458	12.2	99	0.00	3.04
24 p	carbon disulfide	2.182	1.988	8.9	100	0.00	3.13
25 p	propionitrile	50.000	49.713	0.6	112	0.02	5.67
26 p	vinyl acetate	1.459	1.367	6.3	103	0.01	4.60
27 p	chloroprene	0.824	1.035	-25.6#	132	0.01	4.64
28 p	di-isopropyl ether	1.708	1.688	1.2	108	0.01	4.63
29 p	methacrylonitrile	0.177	0.181	-2.3	109	0.01	5.94
30 p	2-butanone	0.033	0.039#	-18.2	126	0.01	5.55
31 p	Hexane	50.000	48.049	3.9	105	0.01	4.27

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		AvgRF	CCRF	%Dev			
32 P	1,1-dichloroethane	1.130	1.122	0.7	112	0.01	4.53
33 p	tert-butyl ethyl ether	1.252	1.301	-3.9	112	0.01	5.29
34 p	isobutyl alcohol	0.290	0.273	5.9	103	0.01	4.60
		Amount	Calc.	%Drift			
35 p	2,2-dichloropropane	50.000	46.589	6.8	117	0.01	5.57
		AvgRF	CCRF	%Dev			
36 p	cis-1,2-dichloroethene	0.622	0.615	1.1	111	0.01	5.55
37 p	ethyl acetate	1.468	1.367	6.9	103	0.01	4.60
38 p	bromochloromethane	0.291	0.293	-0.7	112	0.01	5.97
39 p	chloroform	1.252	1.200	4.2	108	0.01	6.19
40 S	dibromofluoromethane (s)	0.687	0.574	16.4	91	0.01	6.46
41 p	Tetrahydrofuran	0.060	0.059	1.7	104	0.01	5.98
42 p	1,1,1-trichloroethane	1.219	1.272	-4.3	109	0.01	6.43
43 I	1,4-difluorobenzene	1.000	1.000	0.0	108	0.00	7.76
44 p	Cyclohexane	0.626	0.602	3.8	105	0.01	6.54
45 p	carbon tetrachloride	0.804	0.890	-10.7	110	0.01	6.69
46 p	1,1-dichloropropene	0.533	0.544	-2.1	110	0.01	6.70
47 p	benzene	1.336	1.282	4.0	111	0.01	7.02
48 p	1,2-dichloroethane	0.543	0.548	-0.9	111	0.01	7.14
49 p	tert-amyl methyl ether	0.595	0.603	-1.3	108	0.00	7.31
		Amount	Calc.	%Drift			
50 p	heptane	50.000	50.028	-0.1	108	0.00	7.58
		AvgRF	CCRF	%Dev			
51 p	trichloroethene	0.433	0.427	1.4	111	0.00	8.05
52 p	1,2-dichloropropane	0.317	0.317	0.0	108	0.00	8.40
53 p	dibromomethane	0.196	0.201	-2.6	110	0.00	8.50
54 p	bromodichloromethane	0.509	0.534	-4.9	113	0.00	8.75
		Amount	Calc.	%Drift			
55 p	Methylcyclohexane	50.000	50.407	-0.8	110	0.00	8.35
56 p	2-chloroethyl vinyl ether	50.000	45.902	8.2	111	0.00	9.13
		AvgRF	CCRF	%Dev			
57 p	methyl methacrylate	0.103	0.101	1.9	106	0.00	8.53
		Amount	Calc.	%Drift			
58 p	1,4-dioxane	250.000	220.799	11.7	103	0.00	8.51
59 p	cis-1,3-dichloropropene	50.000	47.430	5.1	109	0.00	9.28
		AvgRF	CCRF	%Dev			
60 S	toluene-d8 (s)	1.265	1.097	13.3	95	0.00	9.57
61 p	4-methyl-2-pentanone	0.158	0.161	-1.9	108	0.00	9.46
62 p	toluene	0.817	0.839	-2.7	112	0.00	9.64
		Amount	Calc.	%Drift			
63 p	trans-1,3-dichloropropene	50.000	60.048	-20.1#	121	0.00	9.93
		AvgRF	CCRF	%Dev			
64 p	1,1,2-trichloroethane	0.180	0.183	-1.7	110	0.00	10.13
65 p	ethyl methacrylate	0.237	0.237	0.0	106	0.00	10.01
66 I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	11.09
67 p	tetrachloroethene	0.873	0.920	-5.4	111	0.00	10.19

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68 p	1,3-dichloropropane	0.733	0.759	-3.5	110	0.00	10.30
69 p	dibromochloromethane	50.000	52.290	-4.6	113	0.00	10.52
70 p	1,2-dibromoethane	0.446	0.481	-7.8	111	0.00	10.63
71 p	2-hexanone	0.239	0.300	-25.5#	141	0.00	10.36
72 P	chlorobenzene	2.193	2.148	2.1	107	0.00	11.12
73 p	1,1,1,2-tetrachloroethane	0.887	0.989	-11.5	115	0.00	11.22
74 p	ethylbenzene	3.724	3.952	-6.1	113	0.00	11.23
75 p	m,p-xylene	1.338	1.391	-4.0	109	0.00	11.36
76 p	o-xylene	1.376	1.444	-4.9	109	0.00	11.72
77 p	styrene	2.019	2.172	-7.6	111	0.00	11.74
78 P	bromoform	50.000	51.468	-2.9	112	0.00	11.92
79 p	trans-1,4-dichloro-2-bute	50.000	47.175	5.7	113	0.00	12.13
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	13.30
81 p	isopropylbenzene	3.724	4.185	-12.4	108	0.00	12.07
82 S	bromofluorobenzene (s)	1.000	0.936	6.4	96	0.00	12.24
83 p	bromobenzene	0.847	0.930	-9.8	112	0.00	12.37
84 P	1,1,2,2-tetrachloroethane	0.474	0.522	-10.1	113	0.00	12.37
85 p	1,2,3-trichloropropane	0.489	0.531	-8.6	91	0.00	12.42
86 p	n-propylbenzene	4.197	4.527	-7.9	105	0.00	12.46
87 p	2-chlorotoluene	2.787	2.905	-4.2	107	0.00	12.54
88 p	4-chlorotoluene	3.092	3.292	-6.5	110	0.00	12.65
89 p	1,3,5-trimethylbenzene	3.217	3.632	-12.9	111	0.00	12.63
90 p	tert-butylbenzene	1.851	2.109	-13.9	110	0.00	12.92
91 p	1,2,4-trimethylbenzene	3.263	3.579	-9.7	109	0.00	12.97
92 p	sec-butylbenzene	3.688	4.200	-13.9	108	0.00	13.12
93 p	1,3-dichlorobenzene	1.836	1.897	-3.3	110	0.00	13.23
94 p	p-isopropyltoluene	3.330	3.839	-15.3	113	0.00	13.26
95 p	1,4-dichlorobenzene	1.789	1.823	-1.9	113	0.00	13.32
96 p	1,2-dichlorobenzene	1.737	1.715	1.3	107	0.00	13.64
97 p	n-butylbenzene	2.907	3.297	-13.4	112	0.00	13.63
98 p	1,2-dibromo-3-chloropropa	50.000	44.344	11.3	103	0.00	14.34
99 p	1,3,5-trichlorobenzene	1.322	1.335	-1.0	111	0.00	14.51
100 p	1,2,4-trichlorobenzene	50.000	45.379	9.2	107	0.00	15.06
101 p	hexachlorobutadiene	0.462	0.457	1.1	109	0.00	15.18
102 p	naphthalene	1.348	1.189	11.8	102	0.00	15.30
103 p	1,2,3-trichlorobenzene	0.765	0.657	14.1	102	0.00	15.49
104 p	2-Methylnaphthalene	25.000	18.004	28.0#	76	0.00	16.30
105 p	1-Methylnaphthalene	25.000	16.110	35.6#	71	0.00	16.47

Initial Calibration Verification

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1058-ICV1058
Lab FileID: V28222.D

(#) = Out of Range SPCC's out = 3 CCC's out = 0
v28209.D v140226w.m Fri Feb 28 10:06:29 2014

6.7.2
6

Continuing Calibration Summary

Page 1 of 4

Job Number: MC29101
 Account: STANNYR Stantec Consulting Corporation
 Project: LMC - Utica West Lot

Sample: MSV1088-CC1058
 Lab FileID: V29025.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V140325\v29025.D Vial: 1
 Acq On : 25 Mar 2014 9:38 am Operator: amym
 Sample : cc1058-50 Inst : MSV
 Misc : MS31383,MSV1088,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140226w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Thu Feb 27 09:00:59 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	99	-0.02	3.49
2 p	tertiary butyl alcohol	1.244	1.322	-6.3	108	-0.02	3.60
----- Amount Calc. %Drift -----							
3 p	Ethanol	5000.000	4502.291	10.0	87	-0.02	2.49
----- AvgRF CCRF %Dev -----							
4 I	pentafluorobenzene	1.000	1.000	0.0	114	-0.03	6.54
5 p	dichlorodifluoromethane	1.361	1.024	24.8#	75	-0.02	1.49
6 P	chloromethane	1.040	0.828	20.4#	87	0.00	1.61
7 p	vinyl chloride	0.968	0.856	11.6	94	0.00	1.72
8 p	bromomethane	0.814	0.700	14.0	94	0.00	2.00
9 p	chloroethane	0.477	0.385	19.3	95	-0.01	2.09
10 p	ethyl ether	0.361	0.291	19.4	96	-0.02	2.59
11 p	acetonitrile	0.881	0.750	14.9	97	-0.02	3.28
12 p	trichlorofluoromethane	1.547	1.326	14.3	87	-0.01	2.33
13 p	freon-113	0.800	0.781	2.4	104	-0.01	2.88
14 p	acrolein	0.031	0.043#	-38.7#	153	-0.02	2.74
15 p	1,1-dichloroethene	0.638	0.595	6.7	106	-0.02	2.85
16 p	acetone	0.036	0.033#	8.3	103	-0.02	2.89
17 p	Methyl Acetate	0.207	0.158	23.7#	87	-0.02	3.26
18 p	methylene chloride	0.650	0.560	13.8	103	-0.02	3.45
19 p	methyl tert butyl ether	1.172	1.013	13.6	100	-0.02	3.82
20 p	acrylonitrile	0.110	0.090	18.2	94	-0.02	3.76
21 p	allyl chloride	0.881	0.750	14.9	97	-0.02	3.28
22 p	trans-1,2-dichloroethene	0.660	0.567	14.1	103	-0.02	3.82
23 p	iodomethane	1.661	1.431	13.8	102	-0.02	3.02
24 p	carbon disulfide	2.182	1.853	15.1	98	-0.02	3.10
----- Amount Calc. %Drift -----							
25 p	propionitrile	50.000	40.646	18.7	95	-0.03	5.62
----- AvgRF CCRF %Dev -----							
26 p	vinyl acetate	1.459	1.242	14.9	99	-0.02	4.56
27 p	chloroprene	0.824	0.712	13.6	96	-0.03	4.60
28 p	di-isopropyl ether	1.708	1.553	9.1	105	-0.03	4.59
29 p	methacrylonitrile	0.177	0.143	19.2	91	-0.03	5.90
30 p	2-butanone	0.033	0.031#	6.1	104	-0.03	5.51
----- Amount Calc. %Drift -----							
31 p	Hexane	50.000	40.698	18.6	94	-0.02	4.24

Continuing Calibration Summary

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1088-CC1058
Lab FileID: V29025.D

		AvgRF	CCRF	%Dev			
32 P	1,1-dichloroethane	1.130	0.958	15.2	101	-0.03	4.49
33 p	tert-butyl ethyl ether	1.252	1.155	7.7	105	-0.03	5.25
34 p	isobutyl alcohol	0.290	0.248	14.5	98	-0.02	4.56
		Amount	Calc.	%Drift			
35 p	2,2-dichloropropane	50.000	43.363	13.3	114	-0.03	5.53
		AvgRF	CCRF	%Dev			
36 p	cis-1,2-dichloroethene	0.622	0.550	11.6	105	-0.03	5.51
37 p	ethyl acetate	1.468	1.242	15.4	99	-0.02	4.56
38 p	bromochloromethane	0.291	0.246	15.5	99	-0.03	5.93
39 p	chloroform	1.252	1.040	16.9	99	-0.03	6.15
40 S	dibromofluoromethane (s)	0.687	0.509	25.9#	86	-0.03	6.42
41 p	Tetrahydrofuran	0.060	0.048#	20.0	90	-0.03	5.94
42 p	1,1,1-trichloroethane	1.219	1.113	8.7	101	-0.03	6.40
43 I	1,4-difluorobenzene	1.000	1.000	0.0	110	-0.02	7.73
44 p	Cyclohexane	0.626	0.595	5.0	105	-0.03	6.50
45 p	carbon tetrachloride	0.804	0.793	1.4	100	-0.03	6.65
46 p	1,1-dichloropropene	0.533	0.489	8.3	101	-0.03	6.66
47 p	benzene	1.336	1.214	9.1	107	-0.03	6.98
48 p	1,2-dichloroethane	0.543	0.443	18.4	92	-0.02	7.11
49 p	tert-amyl methyl ether	0.595	0.600	-0.8	109	-0.02	7.27
		Amount	Calc.	%Drift			
50 p	heptane	50.000	45.526	8.9	100	-0.02	7.54
		AvgRF	CCRF	%Dev			
51 p	trichloroethene	0.433	0.391	9.7	104	-0.02	8.02
52 p	1,2-dichloropropane	0.317	0.306	3.5	106	-0.02	8.37
53 p	dibromomethane	0.196	0.168	14.3	94	-0.02	8.47
54 p	bromodichloromethane	0.509	0.443	13.0	96	-0.02	8.72
		Amount	Calc.	%Drift			
55 p	Methylcyclohexane	50.000	48.947	2.1	109	-0.02	8.32
56 p	2-chloroethyl vinyl ether	50.000	33.748	32.5#	81	-0.02	9.10
		AvgRF	CCRF	%Dev			
57 p	methyl methacrylate	0.103	0.091	11.7	97	-0.02	8.50
		Amount	Calc.	%Drift			
58 p	1,4-dioxane	250.000	203.523	18.6	96	-0.02	8.48
59 p	cis-1,3-dichloropropene	50.000	44.327	11.3	103	-0.02	9.25
		AvgRF	CCRF	%Dev			
60 S	toluene-d8 (s)	1.265	1.125	11.1	99	-0.02	9.54
61 p	4-methyl-2-pentanone	0.158	0.136	13.9	93	-0.02	9.44
62 p	toluene	0.817	0.815	0.2	111	-0.02	9.62
		Amount	Calc.	%Drift			
63 p	trans-1,3-dichloropropene	50.000	51.502	-3.0	103	-0.02	9.91
		AvgRF	CCRF	%Dev			
64 p	1,1,2-trichloroethane	0.180	0.166	7.8	101	-0.02	10.11
65 p	ethyl methacrylate	0.237	0.222	6.3	101	-0.01	9.99
66 I	chlorobenzene-d5	1.000	1.000	0.0	103	-0.01	11.07
67 p	tetrachloroethene	0.873	0.929	-6.4	111	-0.02	10.17

Continuing Calibration Summary

Page 3 of 4

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1088-CC1058
Lab FileID: V29025.D

68 p	1,3-dichloropropane	0.733	0.694	5.3	100	-0.02	10.27
----- Amount Calc. %Drift -----							
69 p	dibromochloromethane	50.000	44.574	10.9	96	-0.02	10.49
----- AvgRF CCRF %Dev -----							
70 p	1,2-dibromoethane	0.446	0.427	4.3	98	-0.02	10.60
71 p	2-hexanone	0.239	0.229	4.2	107	-0.02	10.35
72 P	chlorobenzene	2.193	2.188	0.2	109	-0.01	11.10
73 p	1,1,1,2-tetrachloroethane	0.887	0.901	-1.6	104	-0.01	11.20
74 p	ethylbenzene	3.724	3.845	-3.2	109	-0.01	11.21
75 p	m,p-xylene	1.338	1.412	-5.5	110	-0.01	11.34
76 p	o-xylene	1.376	1.463	-6.3	110	-0.01	11.70
77 p	styrene	2.019	2.077	-2.9	106	-0.01	11.72
----- Amount Calc. %Drift -----							
78 P	bromoform	50.000	41.489	17.0	89	-0.01	11.90
79 p	trans-1,4-dichloro-2-bute	50.000	33.913	32.2#	79	-0.01	12.12
----- AvgRF CCRF %Dev -----							
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	-0.01	13.28
81 p	isopropylbenzene	3.724	4.179	-12.2	108	-0.01	12.06
82 S	bromofluorobenzene (s)	1.000	0.892	10.8	91	-0.01	12.22
83 p	bromobenzene	0.847	0.877	-3.5	106	-0.01	12.35
84 P	1,1,2,2-tetrachloroethane	0.474	0.451	4.9	97	-0.01	12.35
85 p	1,2,3-trichloropropane	0.489	0.561	-14.7	97	-0.02	12.39
86 p	n-propylbenzene	4.197	4.591	-9.4	106	-0.01	12.44
87 p	2-chlorotoluene	2.787	2.881	-3.4	106	-0.01	12.52
88 p	4-chlorotoluene	3.092	3.131	-1.3	104	-0.01	12.63
89 p	1,3,5-trimethylbenzene	3.217	3.466	-7.7	106	-0.01	12.61
90 p	tert-butylbenzene	1.851	1.933	-4.4	101	-0.01	12.90
91 p	1,2,4-trimethylbenzene	3.263	3.462	-6.1	106	-0.01	12.95
92 p	sec-butylbenzene	3.688	4.085	-10.8	105	-0.01	13.10
93 p	1,3-dichlorobenzene	1.836	1.819	0.9	106	-0.01	13.21
94 p	p-isopropyltoluene	3.330	3.619	-8.7	106	-0.01	13.24
95 p	1,4-dichlorobenzene	1.789	1.700	5.0	105	-0.01	13.31
96 p	1,2-dichlorobenzene	1.737	1.610	7.3	100	-0.01	13.62
97 p	n-butylbenzene	2.907	3.033	-4.3	103	-0.01	13.61
----- Amount Calc. %Drift -----							
98 p	1,2-dibromo-3-chloropropa	50.000	33.909	32.2#	77	-0.01	14.33
----- AvgRF CCRF %Dev -----							
99 p	1,3,5-trichlorobenzene	1.322	1.220	7.7	102	-0.01	14.49
----- Amount Calc. %Drift -----							
100 p	1,2,4-trichlorobenzene	50.000	37.289	25.4#	88	-0.01	15.05
----- AvgRF CCRF %Dev -----							
101 p	hexachlorobutadiene	0.462	0.402	13.0	96	-0.01	15.17
102 p	naphthalene	1.348	0.859	36.3#	73	-0.01	15.28
103 p	1,2,3-trichlorobenzene	0.765	0.509	33.5#	79	-0.01	15.47
----- Amount Calc. %Drift -----							
104 p	2-Methylnaphthalene	25.000	15.000	40.0#	47	-0.01	16.28
105 p	1-Methylnaphthalene	25.000	13.326	46.7#	48	-0.01	16.45

6.7.3
6

Continuing Calibration Summary

Job Number: MC29101
Account: STANNYR Stantec Consulting Corporation
Project: LMC - Utica West Lot

Sample: MSV1088-CC1058
Lab FileID: V29025.D

(#) = Out of Range SPCC's out = 4 CCC's out = 0
v28209.D v140226w.m Wed Mar 26 08:58:45 2014

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29038.D
Acq On : 25 Mar 2014 3:27 pm
Operator : amym
Sample : mc29101-1
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 08:51:26 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.492	65	35788	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.547	168	273181	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.731	114	375973	50.00	ug/L	-0.02
66) chlorobenzene-d5	11.075	82	181238	50.00	ug/L	-0.01
80) 1,4-dichlorobenzene-d4	13.289	152	178571	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.424	113	155838	41.54	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.08%		
60) toluene-d8 (s)	9.547	98	413564	43.48	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.96%		
82) bromofluorobenzene (s)	12.225	95	161117	45.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.18%		

Target Compounds	Qvalue

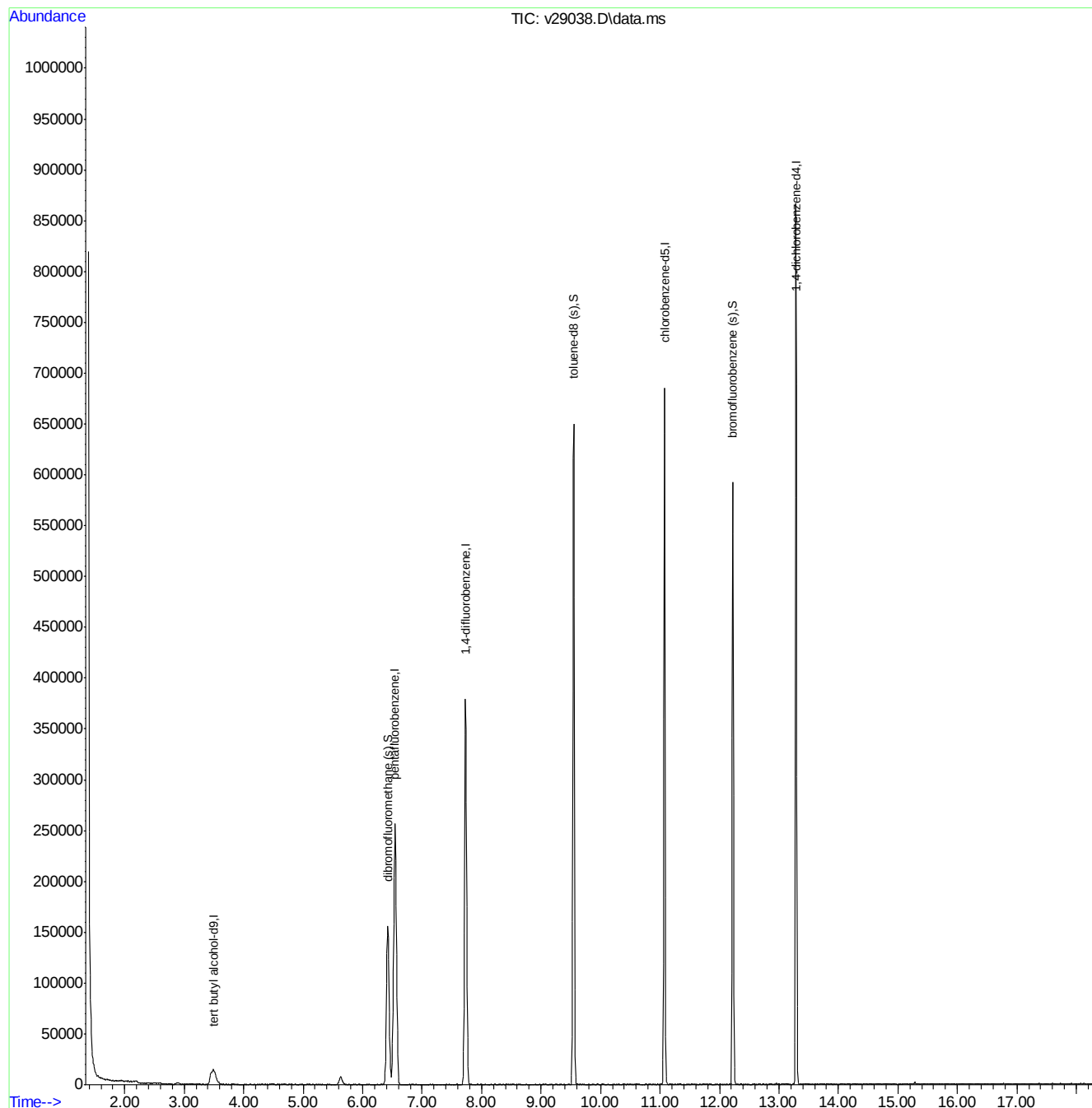
(#)=qualifier out of range (m)=manual integration (+)=signals summed	

7.1.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29038.D
Acq On : 25 Mar 2014 3:27 pm
Operator : amym
Sample : mc29101-1
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 26 08:51:26 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29039.D
 Acq On : 25 Mar 2014 3:53 pm
 Operator : amym
 Sample : mc29101-2
 Misc : MS31386,MSV1088,,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 26 08:51:48 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.496	65	36043	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.550	168	282094	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.734	114	381106	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.076	82	184216	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.289	152	177950	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.427	113	159446	41.16	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.32%		
60) toluene-d8 (s)	9.548	98	416296	43.18	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.36%		
82) bromofluorobenzene (s)	12.226	95	165710	46.54	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.08%		
Target Compounds						
36) cis-1,2-dichloroethene	5.518	96	14875	4.24	ug/L	98
42) 1,1,1-trichloroethane	6.402	97	2223	0.32	ug/L	90

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

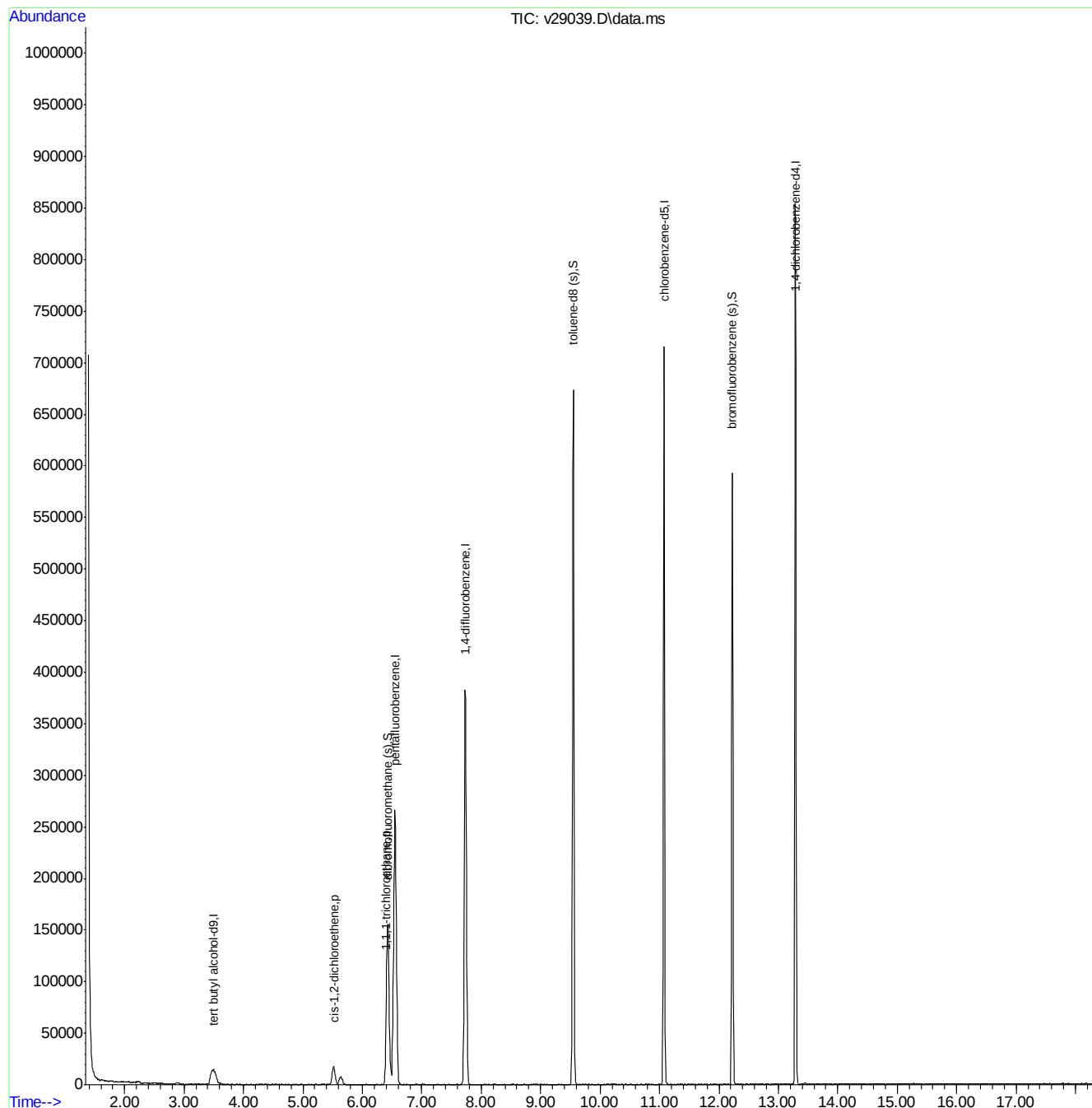
7.1.2

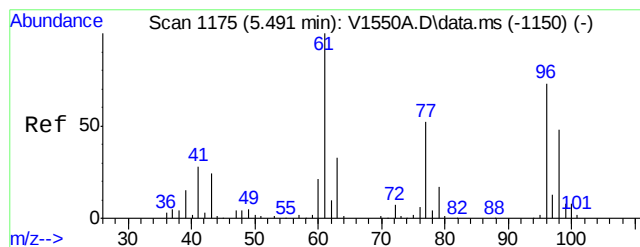
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29039.D
Acq On : 25 Mar 2014 3:53 pm
Operator : amym
Sample : mc29101-2
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

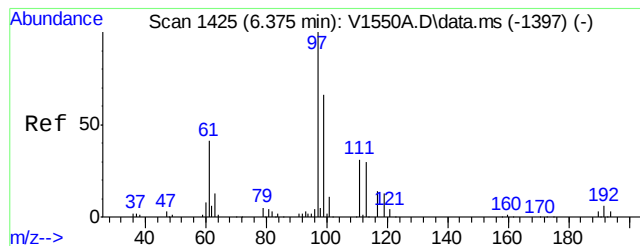
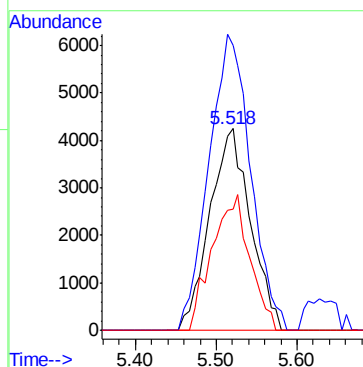
Quant Time: Mar 26 08:51:48 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration





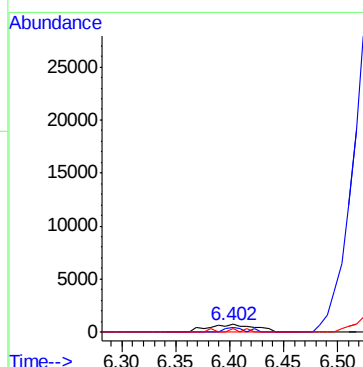
#36
 cis-1,2-dichloroethene
 Concen: 4.24 ug/L
 RT: 5.518 min Scan# 621
 Delta R.T. -0.021 min
 Lab File: v29039.D
 Acq: 25 Mar 2014 3:53 pm

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.6	112.2	172.2
98	60.3	33.6	93.6



#42
 1,1,1-trichloroethane
 Concen: 0.32 ug/L
 RT: 6.402 min Scan# 752
 Delta R.T. -0.020 min
 Lab File: v29039.D
 Acq: 25 Mar 2014 3:53 pm

Tgt Ion	Ratio	Lower	Upper
97	100		
99	57.4	34.7	94.7
61	46.2	8.7	68.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29040.D
Acq On : 25 Mar 2014 4:20 pm
Operator : amym
Sample : mc29101-3
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 26 08:52:07 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.497	65	35724	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.552	168	265038	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.734	114	364878	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.076	82	174851	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.290	152	174513	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.428	113	153497	42.18	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	84.36%		
60) toluene-d8 (s)	9.549	98	399120	43.24	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.48%		
82) bromofluorobenzene (s)	12.226	95	157652	45.15	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.30%		

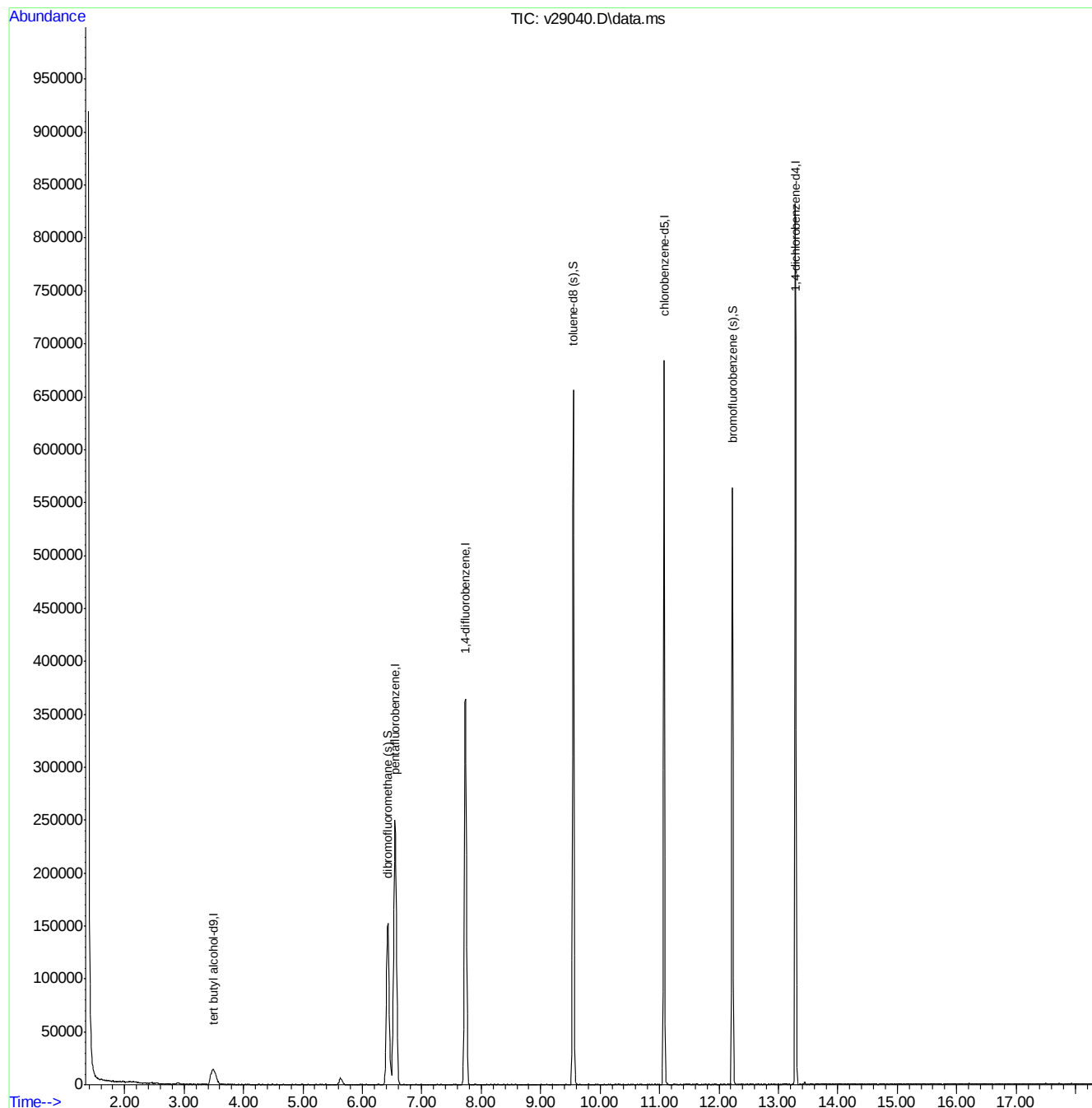
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29040.D
Acq On : 25 Mar 2014 4:20 pm
Operator : amym
Sample : mc29101-3
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 26 08:52:07 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29041.D
Acq On : 25 Mar 2014 4:46 pm
Operator : amym
Sample : mc29101-4
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 26 08:52:25 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	34735	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.553	168	269992	50.00	ug/L	-0.01
43) 1,4-difluorobenzene	7.736	114	368210	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	181117	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.290	152	171860	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.429	113	155583	41.96	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.92%		
60) toluene-d8 (s)	9.549	98	409231	43.93	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.86%		
82) bromofluorobenzene (s)	12.227	95	159060	46.25	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.50%		

Target Compounds Qvalue

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

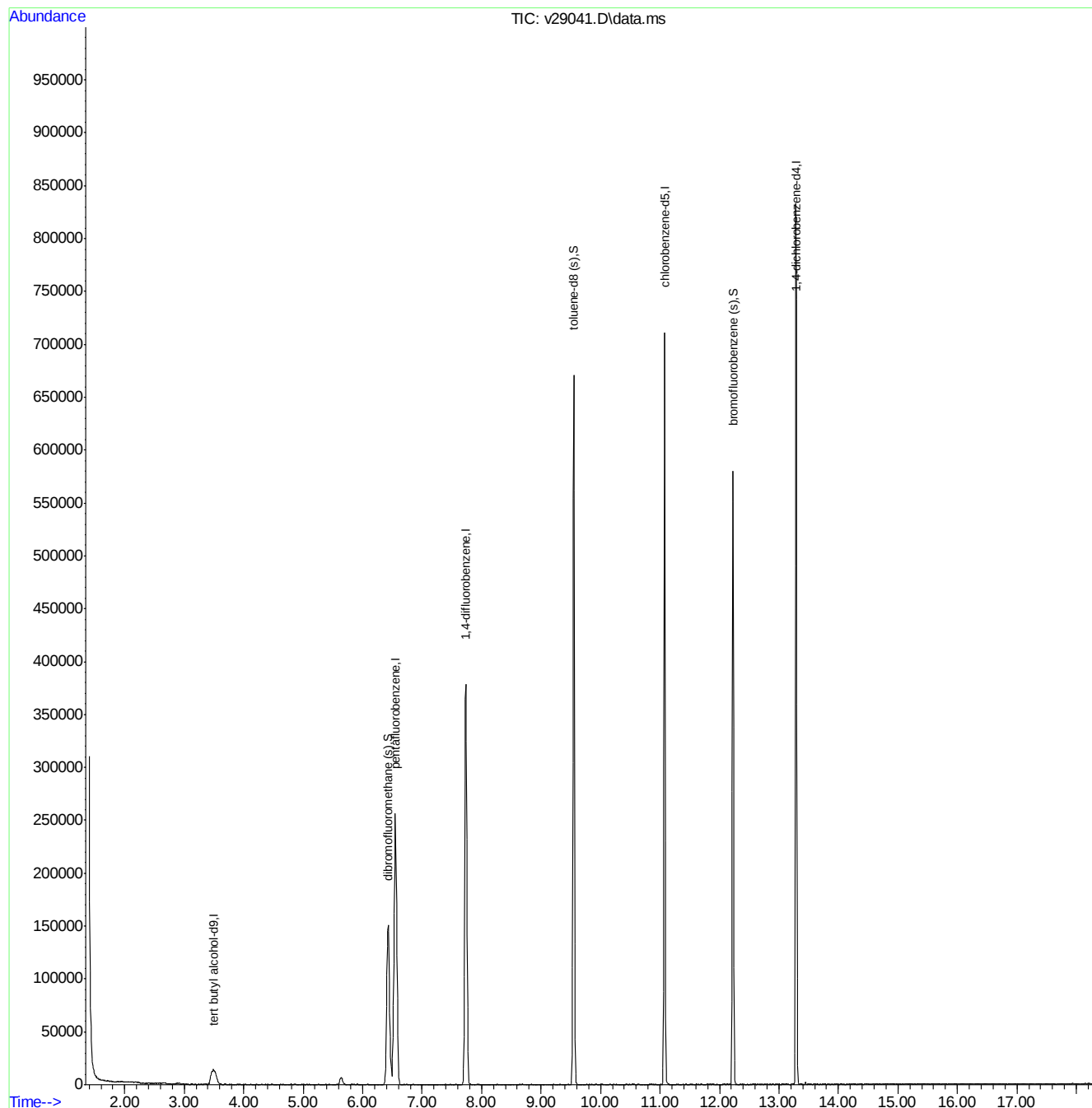
7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29041.D
Acq On : 25 Mar 2014 4:46 pm
Operator : amym
Sample : mc29101-4
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 26 08:52:25 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29042.D
 Acq On : 25 Mar 2014 5:12 pm
 Operator : amym
 Sample : mc29101-5
 Misc : MS31386,MSV1088,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 26 08:52:43 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.497	65	34218	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.552	168	255971	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.735	114	347853	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	170428	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.290	152	165623	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.429	113	147360	41.92	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.84%		
60) toluene-d8 (s)	9.549	98	388554	44.15	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.30%		
82) bromofluorobenzene (s)	12.227	95	152730	46.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.18%		

Target Compounds Qvalue

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

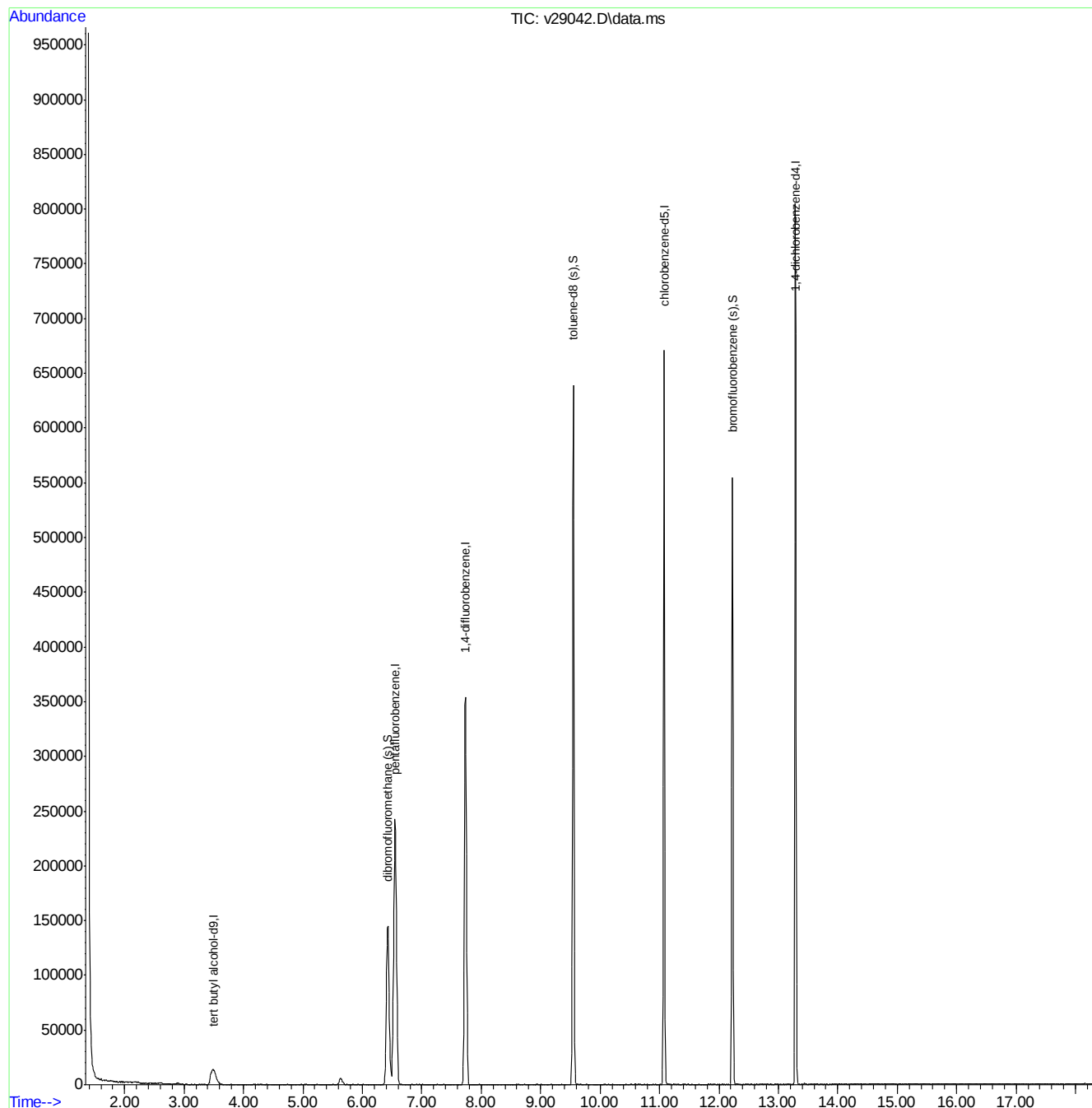
7.1.5

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29042.D
Acq On : 25 Mar 2014 5:12 pm
Operator : amym
Sample : mc29101-5
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 26 08:52:43 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29043.D
 Acq On : 25 Mar 2014 5:38 pm
 Operator : amym
 Sample : mc29101-6
 Misc : MS31386,MSV1088,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 26 08:53:02 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.495	65	32066	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.551	168	248124	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.735	114	341789	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	163835	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.290	152	162339	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.428	113	145362	42.66	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	85.32%		
60) toluene-d8 (s)	9.549	98	372776	43.11	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.22%		
82) bromofluorobenzene (s)	12.227	95	148344	45.67	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.34%		

Target Compounds Qvalue

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

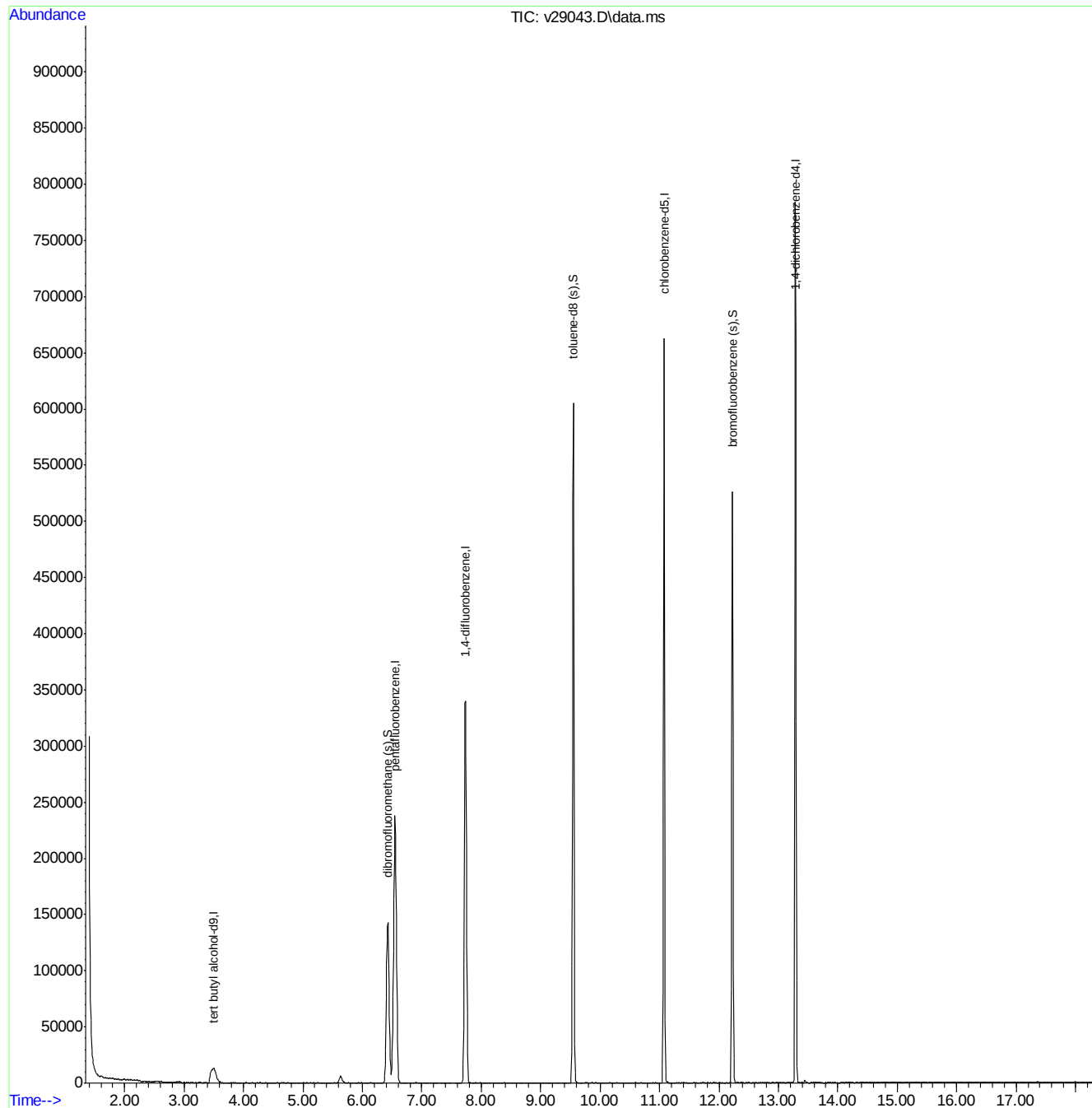
7.1.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29043.D
Acq On : 25 Mar 2014 5:38 pm
Operator : amym
Sample : mc29101-6
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 26 08:53:02 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29044.D
Acq On : 25 Mar 2014 6:04 pm
Operator : amym
Sample : mc29101-7
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 26 08:53:26 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.494	65	31063	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.552	168	243103	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.735	114	333527	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	161095	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.290	152	157728	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.428	113	139685	41.84	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.68%		
60) toluene-d8 (s)	9.550	98	364689	43.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.44%		
82) bromofluorobenzene (s)	12.227	95	144180	45.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.36%		
Target Compounds						Qvalue
51) trichloroethene	8.026	95	1247	0.43	ug/L	78
67) tetrachloroethene	10.178	166	3504	1.25	ug/L	90

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

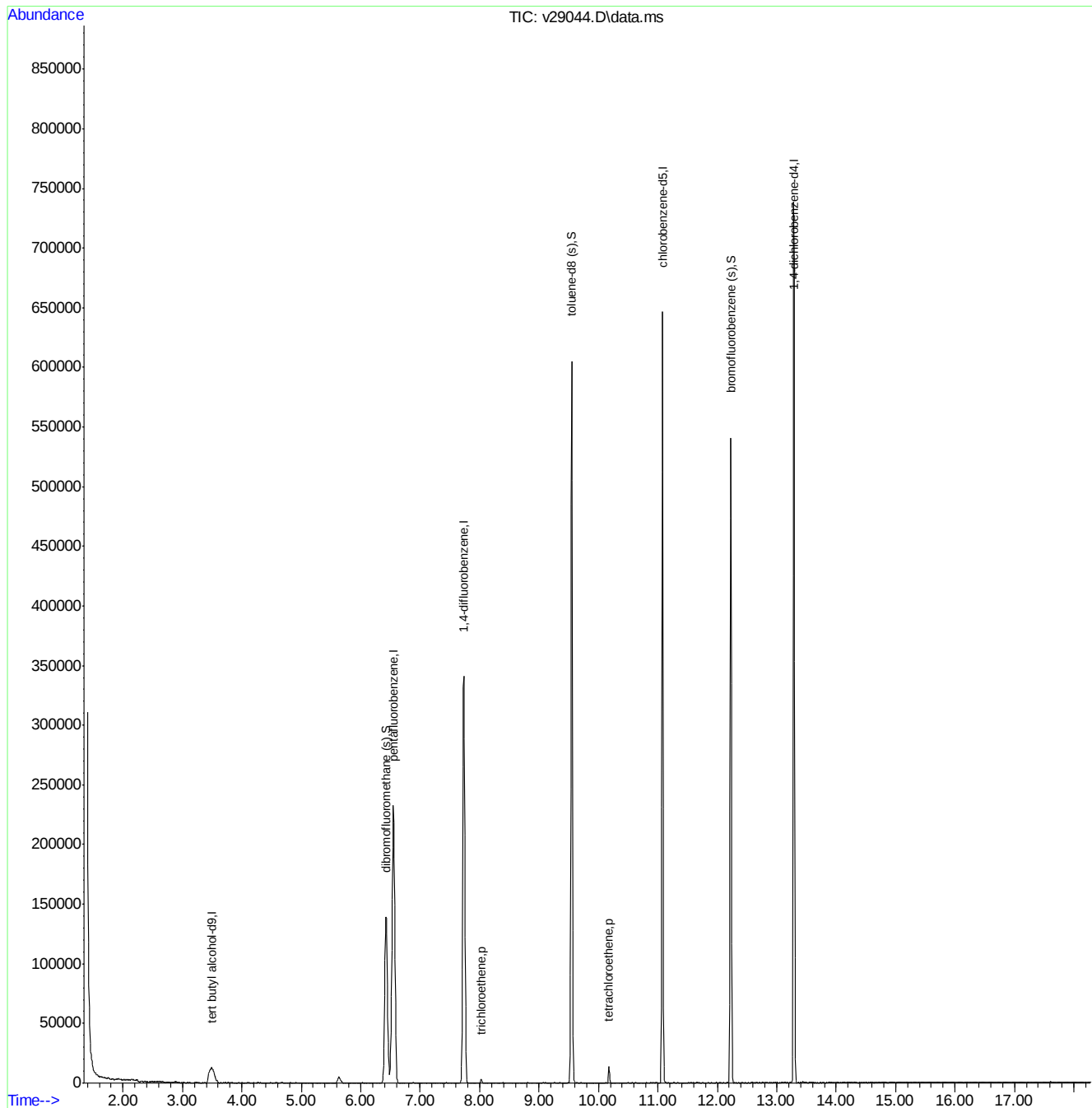
7.1.7

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(QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29044.D
Acq On : 25 Mar 2014 6:04 pm
Operator : amym
Sample : mc29101-7
Misc : MS31386,MSV1088,,,5,1
ALS Vial : 20 Sample Multiplier: 1

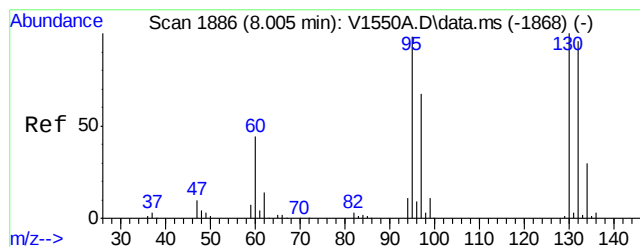
Quant Time: Mar 26 08:53:26 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



v140226w.m Wed Mar 26 08:53:32 2014

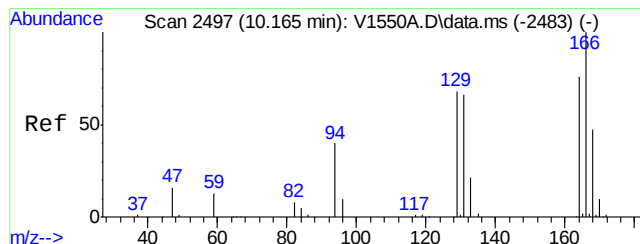
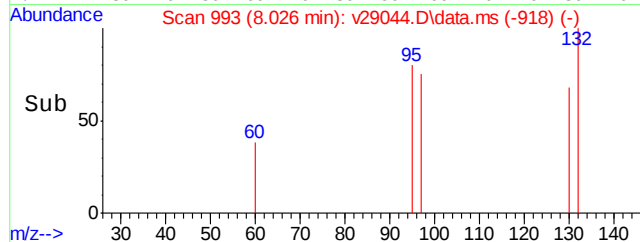
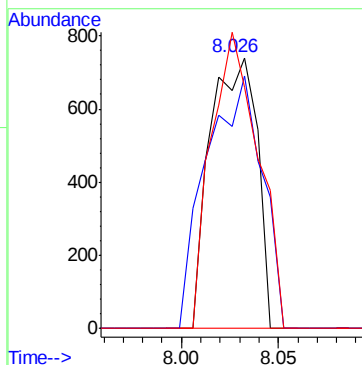
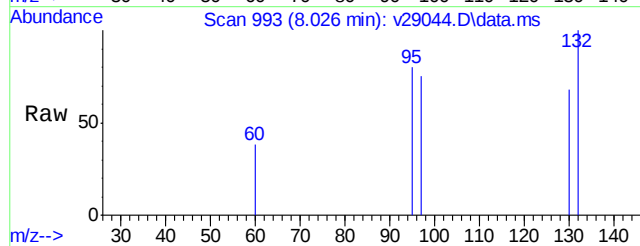
Page: 2

7.1.7



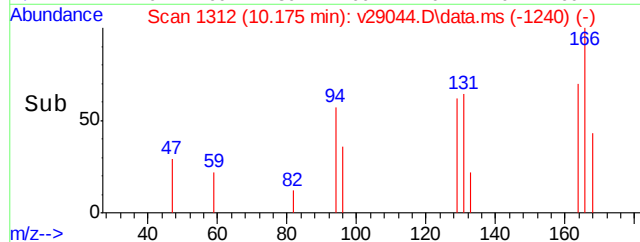
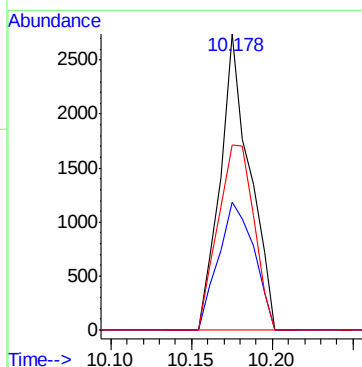
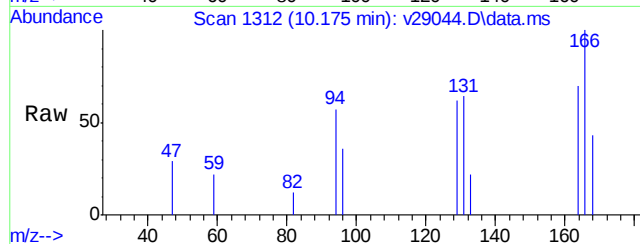
#51
trichloroethene
Concen: 0.43 ug/L
RT: 8.026 min Scan# 993
Delta R.T. -0.014 min
Lab File: v29044.D
Acq: 25 Mar 2014 6:04 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	84.7	74.4	134.4
132	124.2	69.6	129.6



#67
tetrachloroethene
Concen: 1.25 ug/L
RT: 10.178 min Scan# 1312
Delta R.T. -0.010 min
Lab File: v29044.D
Acq: 25 Mar 2014 6:04 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
168	43.2	17.6	77.6
129	62.5	42.6	102.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29045.D
Acq On : 25 Mar 2014 6:30 pm
Operator : amym
Sample : mc29101-8
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 08:53:43 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	32299	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.554	168	244797	50.00	ug/L	-0.01
43) 1,4-difluorobenzene	7.736	114	332312	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	163520	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.291	152	160422	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.430	113	142050	42.26	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.52%
60) toluene-d8 (s)	9.550	98	365725	43.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.00%
82) bromofluorobenzene (s)	12.228	95	147260	45.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.76%

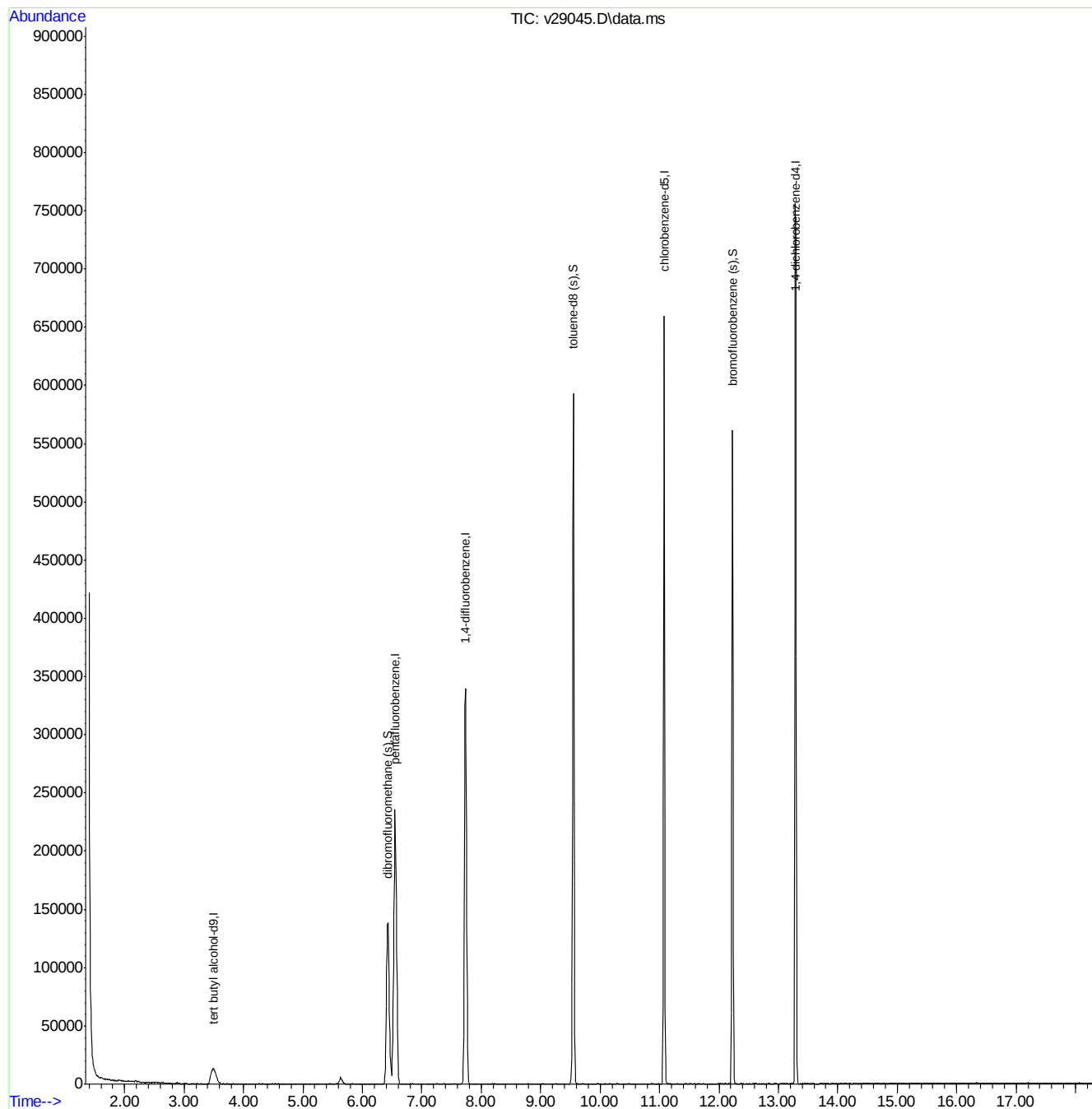
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29045.D
Acq On : 25 Mar 2014 6:30 pm
Operator : amym
Sample : mc29101-8
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 26 08:53:43 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29046.D
Acq On : 25 Mar 2014 6:56 pm
Operator : amym
Sample : mc29101-9
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 26 08:54:02 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.490	65	31431	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.548	168	231782	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.733	114	317721	50.00	ug/L	-0.02
66) chlorobenzene-d5	11.077	82	156306	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.291	152	153594	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.424	113	136073	42.75	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	85.50%		
60) toluene-d8 (s)	9.549	98	345527	42.99	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	85.98%		
82) bromofluorobenzene (s)	12.227	95	141687	46.10	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.20%		

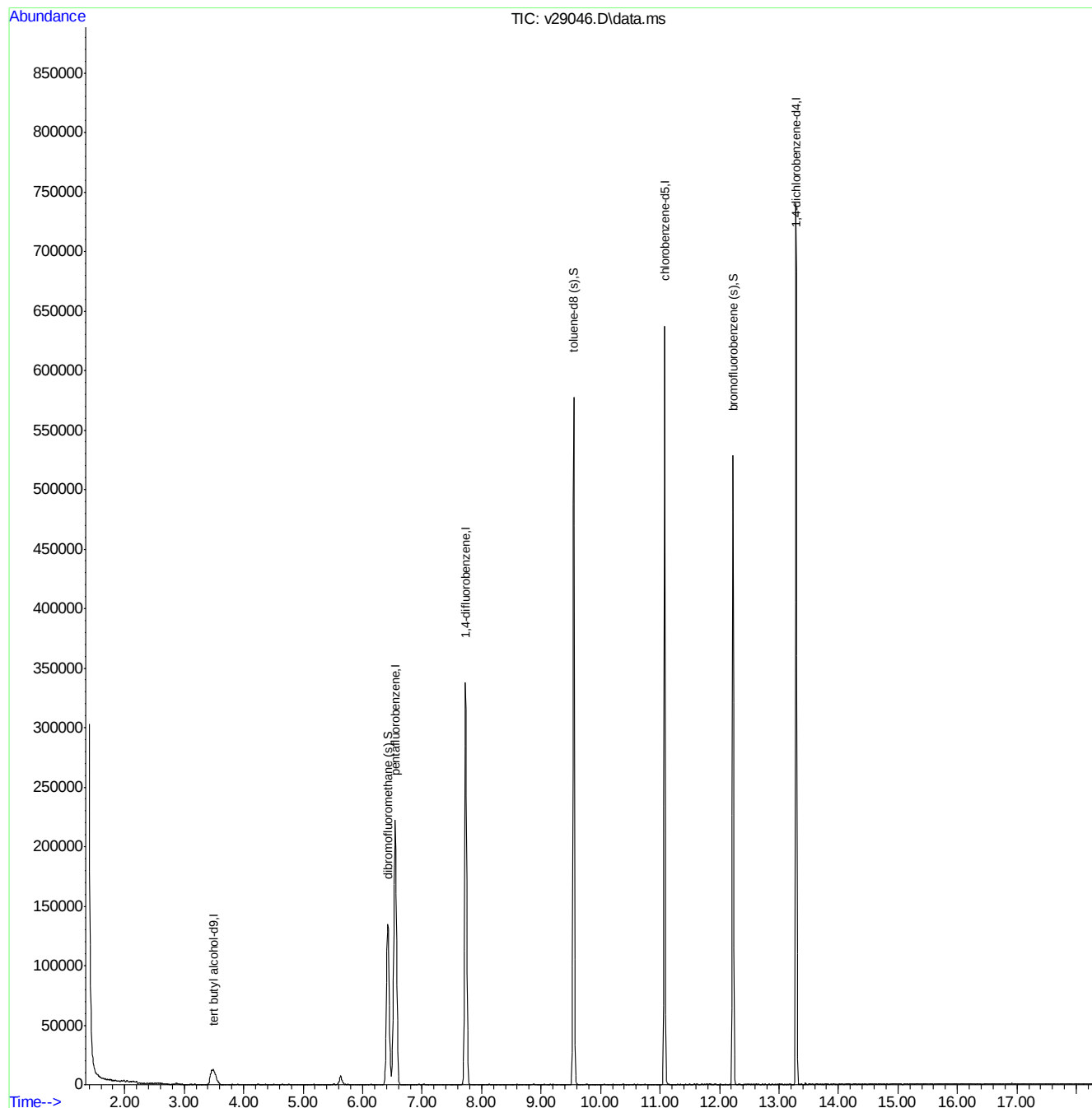
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29046.D
Acq On : 25 Mar 2014 6:56 pm
Operator : amym
Sample : mc29101-9
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 26 08:54:02 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29047.D
Acq On : 25 Mar 2014 7:22 pm
Operator : amym
Sample : mc29101-10
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 26 08:54:21 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	33378	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.554	168	233607	50.00	ug/L	-0.01
43) 1,4-difluorobenzene	7.737	114	323355	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.079	82	158923	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.292	152	157591	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.430	113	137365	42.82	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	85.64%		
60) toluene-d8 (s)	9.551	98	356269	43.55	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.10%		
82) bromofluorobenzene (s)	12.228	95	144150	45.71	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.42%		

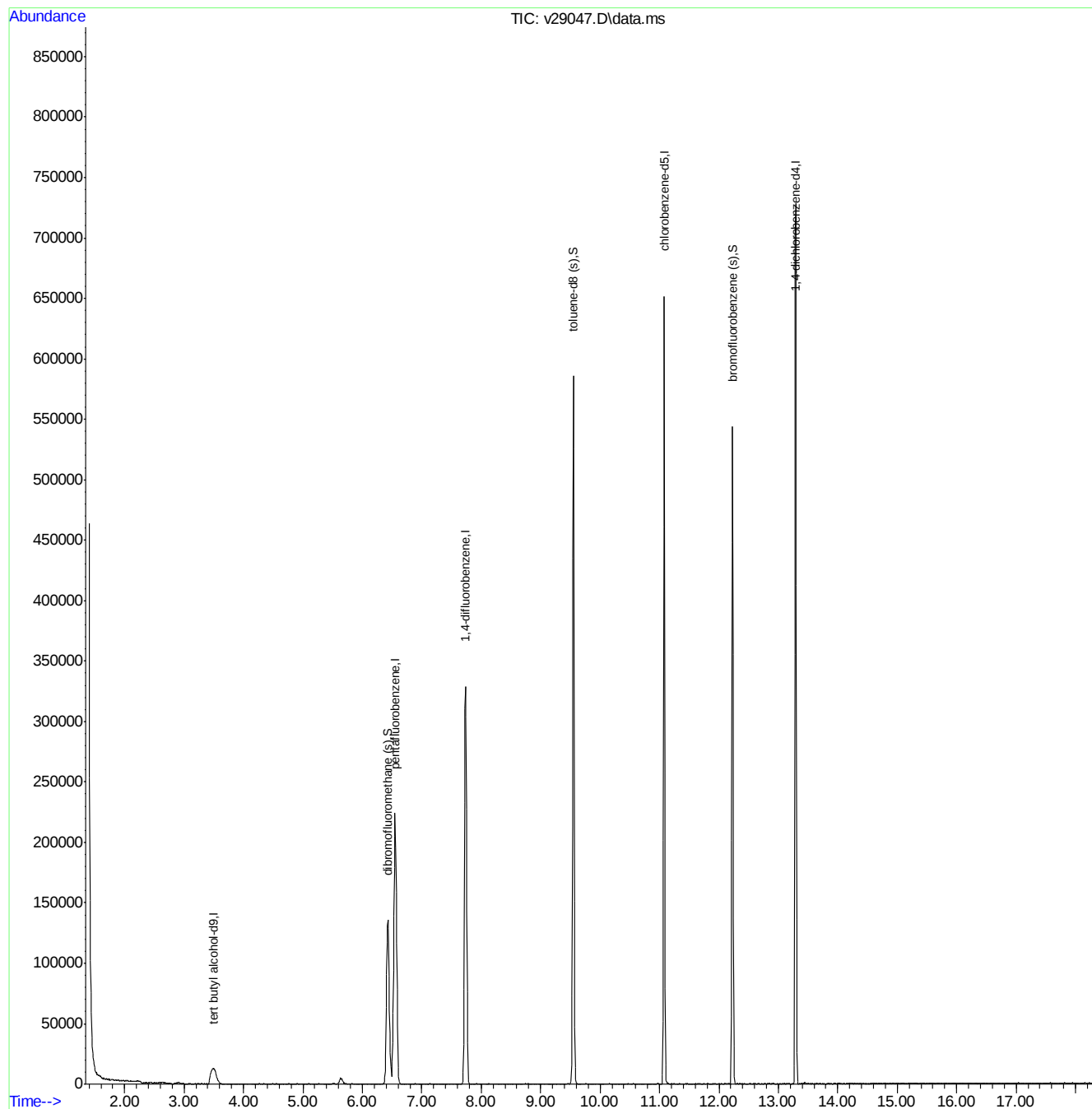
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29047.D
Acq On : 25 Mar 2014 7:22 pm
Operator : amym
Sample : mc29101-10
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 26 08:54:21 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29048.D
Acq On : 25 Mar 2014 7:48 pm
Operator : amym
Sample : mc29101-11
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 26 08:54:42 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.501	65	30839	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.556	168	237019	50.00	ug/L	-0.01
43) 1,4-difluorobenzene	7.738	114	324215	50.00	ug/L	0.00
66) chlorobenzene-d5	11.078	82	158365	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.291	152	152955	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.432	113	140567	43.19	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.38%		
60) toluene-d8 (s)	9.551	98	353750	43.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.26%		
82) bromofluorobenzene (s)	12.228	95	143061	46.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.48%		
Target Compounds						
51) trichloroethene	8.029	95	9710	3.45	ug/L	Qvalue 88

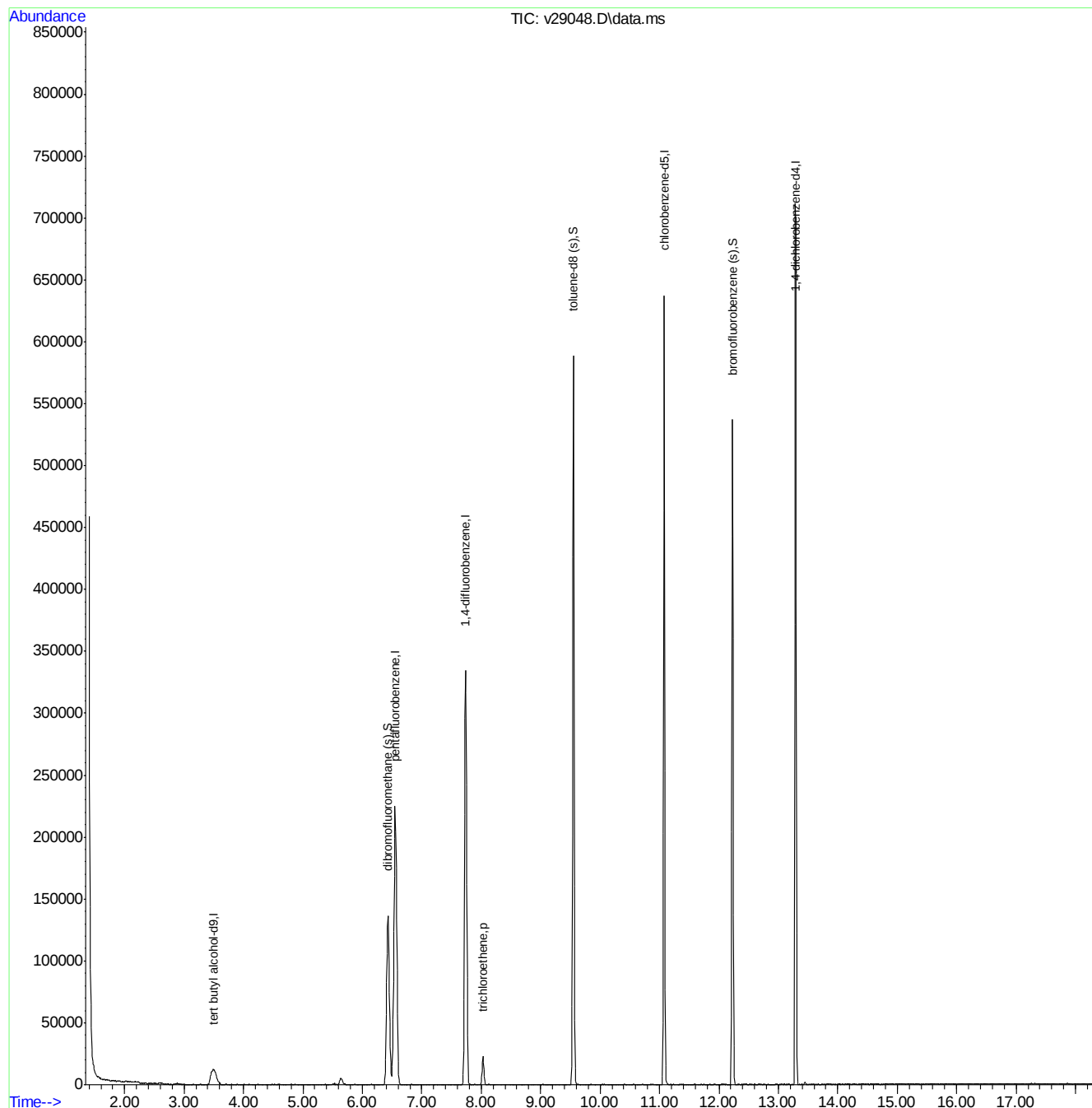
(#) = qualifier out of range (m) = manual integration (+) = signals summed

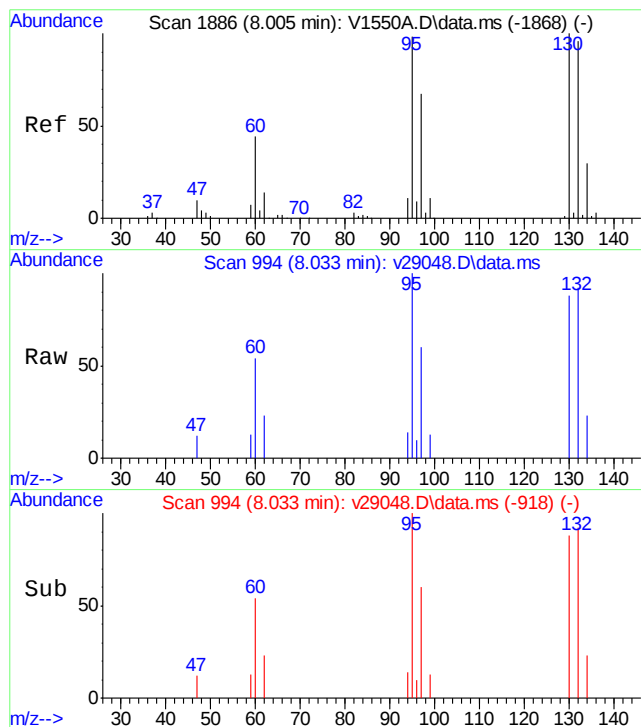
7.1.11
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29048.D
Acq On : 25 Mar 2014 7:48 pm
Operator : amym
Sample : mc29101-11
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

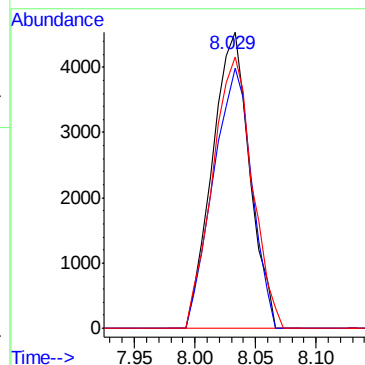
Quant Time: Mar 26 08:54:42 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration





#51
trichloroethene
Concen: 3.45 ug/L
RT: 8.029 min Scan# 994
Delta R.T. -0.011 min
Lab File: v29048.D
Acq: 25 Mar 2014 7:48 pm

Tgt Ion:	95	Resp:	9710
Ion Ratio	Lower	Upper	
95	100		
130	88.0	74.4	134.4
132	91.8	69.6	129.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29049.D
Acq On : 25 Mar 2014 8:14 pm
Operator : amym
Sample : mc29101-12
Misc : MS31386,MSV1088,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 26 08:55:00 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.494	65	31630	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.552	168	222778	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.736	114	300494	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.078	82	149629	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.291	152	149548	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.428	113	132665	43.37	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.74%		
60) toluene-d8 (s)	9.550	98	332166	43.69	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.38%		
82) bromofluorobenzene (s)	12.228	95	135892	45.41	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.82%		

Target Compounds Qvalue

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

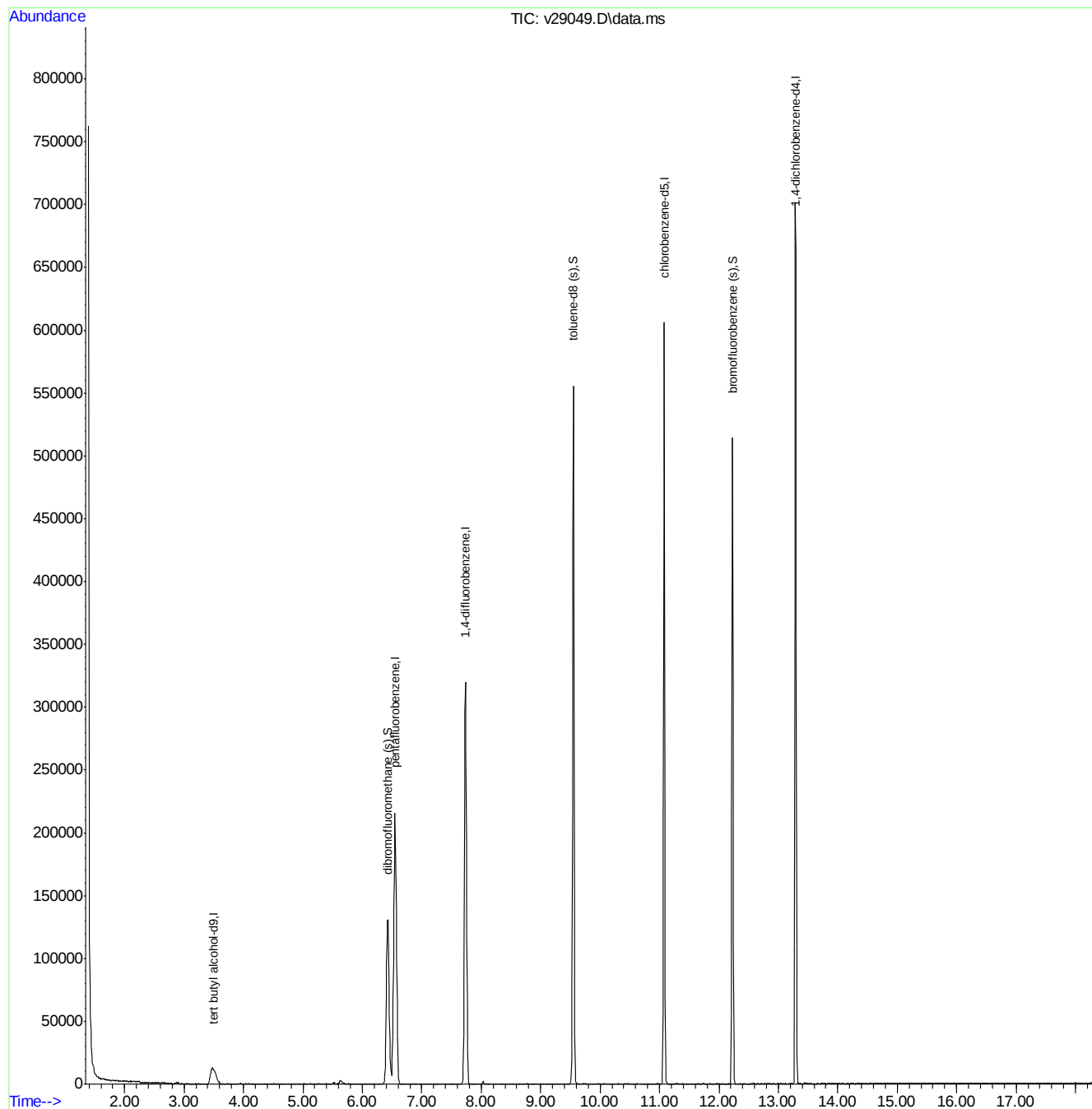
7.1.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29049.D
Acq On : 25 Mar 2014 8:14 pm
Operator : amym
Sample : mc29101-12
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 26 08:55:00 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29030.D
Acq On : 25 Mar 2014 11:56 am
Operator : amym
Sample : mc29101-13
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 26 08:48:38 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.491	65	45052	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.543	168	370155	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.728	114	509610	50.00	ug/L	-0.02
66) chlorobenzene-d5	11.072	82	230107	50.00	ug/L	-0.01
80) 1,4-dichlorobenzene-d4	13.286	152	224991	50.00	ug/L	-0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.420	113	195429	38.45	ug/L	-0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	76.90%		
60) toluene-d8 (s)	9.544	98	542543	42.08	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	84.16%		
82) bromofluorobenzene (s)	12.223	95	204535	45.43	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.86%		

Target Compounds	Qvalue

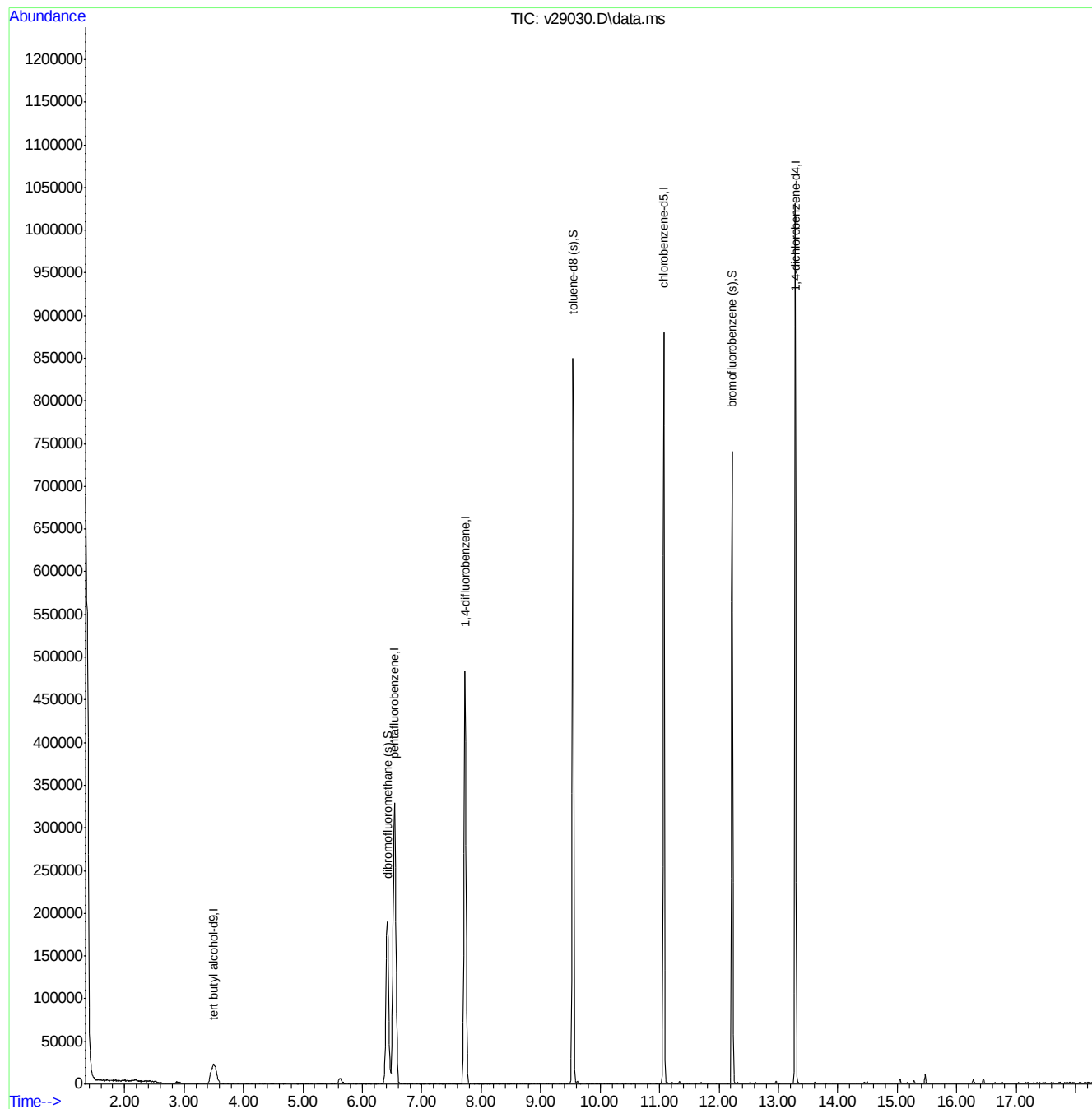
(#)=qualifier out of range (m)=manual integration (+)=signals summed	

7.1.13
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29030.D
Acq On : 25 Mar 2014 11:56 am
Operator : amym
Sample : mc29101-13
Misc : MS31386,MSV1088,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 26 08:48:38 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29029.D
Acq On : 25 Mar 2014 11:23 am
Operator : amym
Sample : mb
Misc : MS31373,MSV1088,,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 26 08:48:13 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.487	65	45928	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.540	168	372112	50.00	ug/L	-0.03
43) 1,4-difluorobenzene	7.726	114	507664	50.00	ug/L	-0.02
66) chlorobenzene-d5	11.072	82	236689	50.00	ug/L	-0.01
80) 1,4-dichlorobenzene-d4	13.285	152	238496	50.00	ug/L	-0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.417	113	195398	38.24	ug/L	-0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	76.48%		
60) toluene-d8 (s)	9.543	98	562440	43.79	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.58%		
82) bromofluorobenzene (s)	12.222	95	212426	44.51	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.02%		

Target Compounds Qvalue

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

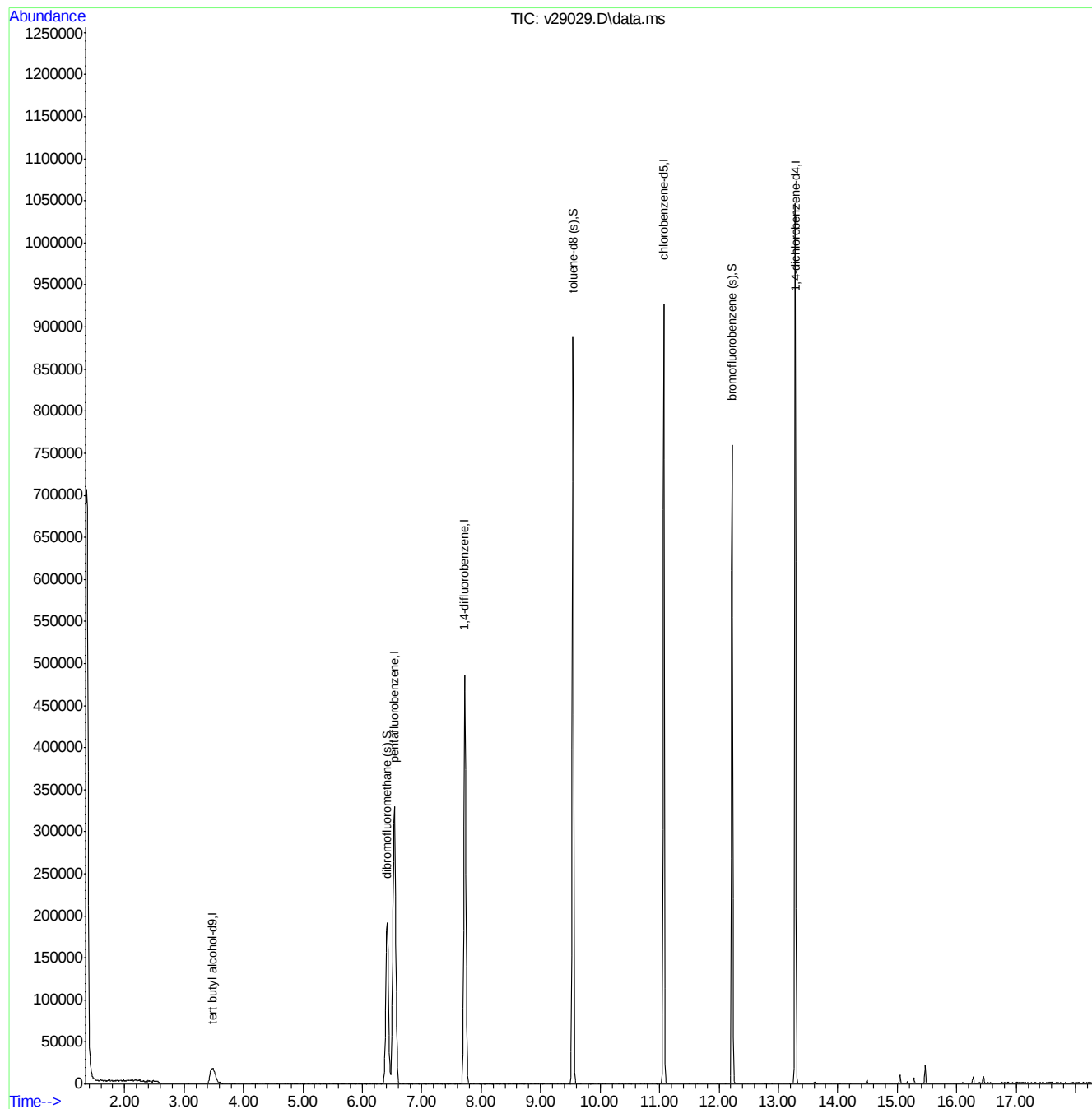
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29029.D
Acq On : 25 Mar 2014 11:23 am
Operator : amym
Sample : mb
Misc : MS31373,MSV1088,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 26 08:48:13 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29026.D
 Acq On : 25 Mar 2014 10:04 am
 Operator : amym
 Sample : bs
 Misc : MS31373,MSV1088,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 08:47:12 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.493	65	60510	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.543	168	440413	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.727	114	601475	50.00	ug/L	-0.02
66) chlorobenzene-d5	11.071	82	279607	50.00	ug/L	-0.01
80) 1,4-dichlorobenzene-d4	13.285	152	282677	50.00	ug/L	-0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.420	113	228703	37.82	ug/L	-0.03
Spiked Amount 50.000	Range 70	- 130	Recovery	=	75.64%	
60) toluene-d8 (s)	9.543	98	675041	44.36	ug/L	-0.02
Spiked Amount 50.000	Range 70	- 130	Recovery	=	88.72%	
82) bromofluorobenzene (s)	12.221	95	258231	45.65	ug/L	-0.01
Spiked Amount 50.000	Range 70	- 130	Recovery	=	91.30%	
Target Compounds						
2) tertiary butyl alcohol	3.604	59	76018	505.04	ug/L	# 61
3) Ethanol	2.486	45	90300	3915.02	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	357216	29.80	ug/L	98
6) chloromethane	1.609	50	354943	38.73	ug/L	96
7) vinyl chloride	1.716	62	327565	38.40	ug/L	100
8) bromomethane	2.004	96	274217	38.25	ug/L	95
9) chloroethane	2.095	64	175596	41.80	ug/L	99
10) ethyl ether	2.592	59	129831	40.86	ug/L	99
11) acetonitrile	3.280	41	351724	45.33	ug/L	87
12) trichlorofluoromethane	2.330	101	557850	40.95	ug/L	97
13) freon-113	2.883	101	335488	47.62	ug/L	94
14) acrolein	2.743	56	83259	303.46	ug/L	100
15) 1,1-dichloroethene	2.855	96	272411	48.48	ug/L	95
16) acetone	2.889	58	10346	32.48	ug/L	# 70
17) Methyl Acetate	3.264	43	76248	41.87	ug/L	93
18) methylene chloride	3.449	84	249670	43.60	ug/L	89
19) methyl tert butyl ether	3.822	73	442705	42.89	ug/L	96
20) acrylonitrile	3.764	53	37957	39.17	ug/L	94
21) allyl chloride	3.280	41	351724	45.33	ug/L	94
22) trans-1,2-dichloroethene	3.819	96	265906	45.76	ug/L	94
23) iodomethane	3.020	142	601061	41.09	ug/L	95
24) carbon disulfide	3.105	76	825562	42.96	ug/L	99
25) propionitrile	5.624	54	11166	39.71	ug/L	100
26) vinyl acetate	4.562	43	522204	40.63	ug/L	89
27) chloroprene	4.602	53	381561	52.55	ug/L	93
28) di-isopropyl ether	4.590	45	654822	43.53	ug/L	94
29) methacrylonitrile	5.898	41	62683	40.19	ug/L	92
30) 2-butanone	5.512	72	11652	40.18	ug/L	94
31) Hexane	4.236	41	205045	41.50	ug/L	# 76
32) 1,1-dichloroethane	4.492	63	440739	44.28	ug/L	99
33) tert-butyl ethyl ether	5.255	59	509381	46.17	ug/L	99
34) isobutyl alcohol	4.562	43	522204	204.19	ug/L	64
35) 2,2-dichloropropane	5.528	77	363635	43.75	ug/L	94
36) cis-1,2-dichloroethene	5.511	96	248366	45.36	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29026.D
 Acq On : 25 Mar 2014 10:04 am
 Operator : amym
 Sample : bs
 Misc : MS31373,MSV1088,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 08:47:12 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	522213m	40.38	ug/L	
38) bromochloromethane	5.931	128	113274	44.13	ug/L	98
39) chloroform	6.150	83	456755	41.42	ug/L	99
41) Tetrahydrofuran	5.938	42	20765	39.58	ug/L	82
42) 1,1,1-trichloroethane	6.397	97	485187	45.20	ug/L	97
44) Cyclohexane	6.504	56	350994	46.63	ug/L	97
45) carbon tetrachloride	6.653	117	462423	47.81	ug/L	98
46) 1,1-dichloropropene	6.665	75	304999	47.56	ug/L	95
47) benzene	6.984	78	740783	46.10	ug/L	100
48) 1,2-dichloroethane	7.109	62	265822	40.66	ug/L	99
49) tert-amyl methyl ether	7.276	73	341150	47.64	ug/L	95
50) heptane	7.546	43	195703	45.07	ug/L	93
51) trichloroethene	8.020	95	238117	45.67	ug/L	98
52) 1,2-dichloropropane	8.370	63	183237	48.06	ug/L	100
53) dibromomethane	8.473	93	103733	44.02	ug/L	92
54) bromodichloromethane	8.725	83	271717	44.40	ug/L	99
55) Methylcyclohexane	8.325	83	331667	48.82	ug/L	97
56) 2-chloroethyl vinyl ether	9.102	63	28416	39.37	ug/L	98
57) methyl methacrylate	8.504	69	54630	44.20	ug/L	85
58) 1,4-dioxane	8.480	88	3942	209.81	ug/L	87
59) cis-1,3-dichloropropene	9.254	75	241464	43.18	ug/L	95
61) 4-methyl-2-pentanone	9.438	43	79691	42.05	ug/L	90
62) toluene	9.619	92	501217	51.02	ug/L	96
63) trans-1,3-dichloropropene	9.907	75	190504	54.41	ug/L	92
64) 1,1,2-trichloroethane	10.113	83	103312	47.62	ug/L	99
65) ethyl methacrylate	9.988	69	127589	44.74	ug/L	86
67) tetrachloroethene	10.172	166	261548	53.60	ug/L	97
68) 1,3-dichloropropane	10.274	76	194302	47.42	ug/L	99
69) dibromochloromethane	10.495	129	176470	44.99	ug/L	100
70) 1,2-dibromoethane	10.604	107	122313	49.03	ug/L	97
71) 2-hexanone	10.347	43	52463	39.21	ug/L	84
72) chlorobenzene	11.101	112	597314	48.71	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.201	131	255126	51.42	ug/L	96
74) ethylbenzene	11.206	91	1087716	52.23	ug/L	95
75) m,p-xylene	11.337	106	784897	104.90	ug/L	89
76) o-xylene	11.704	106	402811	52.35	ug/L	92
77) styrene	11.725	104	601636	53.29	ug/L	94
78) bromoform	11.899	173	81616	42.78	ug/L	100
79) trans-1,4-dichloro-2-b...	12.116	53	28724	34.31	ug/L #	69
81) isopropylbenzene	12.056	105	1152530	54.74	ug/L	98
83) bromobenzene	12.347	156	252701	52.75	ug/L	91
84) 1,1,2,2-tetrachloroethane	12.352	83	135126	50.40	ug/L	98
85) 1,2,3-trichloropropane	12.390	75	161421	58.44	ug/L	100
86) n-propylbenzene	12.445	91	1229492	51.81	ug/L	98
87) 2-chlorotoluene	12.524	91	792121	50.27	ug/L	98
88) 4-chlorotoluene	12.635	91	880554	50.37	ug/L	97
89) 1,3,5-trimethylbenzene	12.615	105	981728	53.97	ug/L	97
90) tert-butylbenzene	12.901	91	529552	50.59	ug/L	100
91) 1,2,4-trimethylbenzene	12.954	105	961070	52.09	ug/L	100
92) sec-butylbenzene	13.104	105	1136472	54.51	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29026.D
Acq On : 25 Mar 2014 10:04 am
Operator : amym
Sample : bs
Misc : MS31373,MSV1088,,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 08:47:12 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

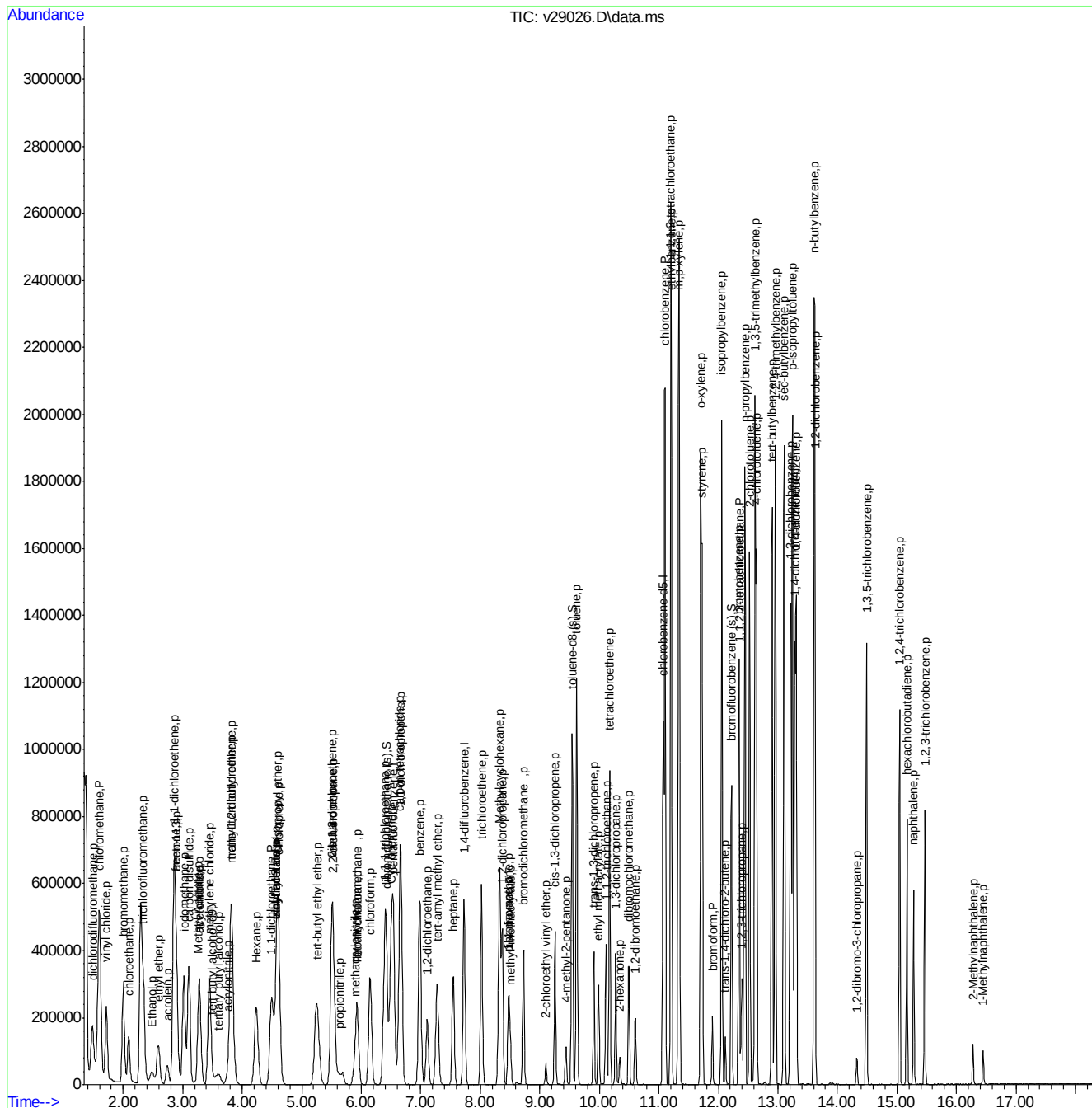
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.212	146	519073	50.01	ug/L	99
94) p-isopropyltoluene	13.245	119	1027290	54.57	ug/L	99
95) 1,4-dichlorobenzene	13.307	146	499732	49.40	ug/L	99
96) 1,2-dichlorobenzene	13.624	146	466452	47.50	ug/L	99
97) n-butylbenzene	13.610	91	861904	52.44	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.326	75	16846	37.72	ug/L	86
99) 1,3,5-trichlorobenzene	14.490	180	367890	49.24	ug/L	98
100) 1,2,4-trichlorobenzene	15.046	180	286353	46.70	ug/L	98
101) hexachlorobutadiene	15.167	225	123174	47.15	ug/L	93
102) naphthalene	15.280	128	383783	50.38	ug/L	100
103) 1,2,3-trichlorobenzene	15.469	180	218619	50.53	ug/L	99
104) 2-Methylnaphthalene	16.280	142	52356	24.60	ug/L	100
105) 1-Methylnaphthalene	16.449	142	44678	25.25	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29026.D
Acq On : 25 Mar 2014 10:04 am
Operator : amym
Sample : bs
Misc : MS31373,MSV1088,,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

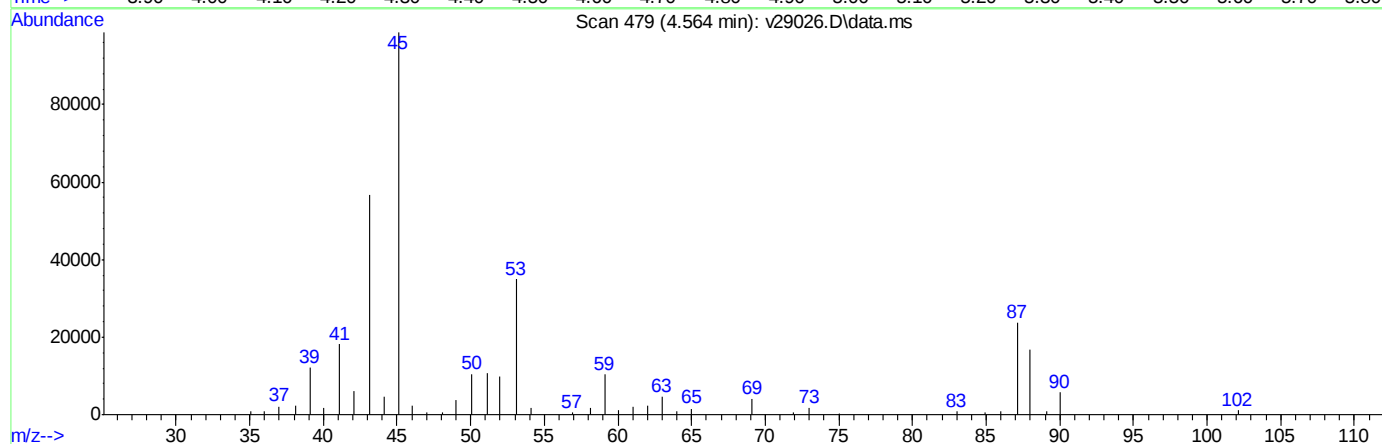
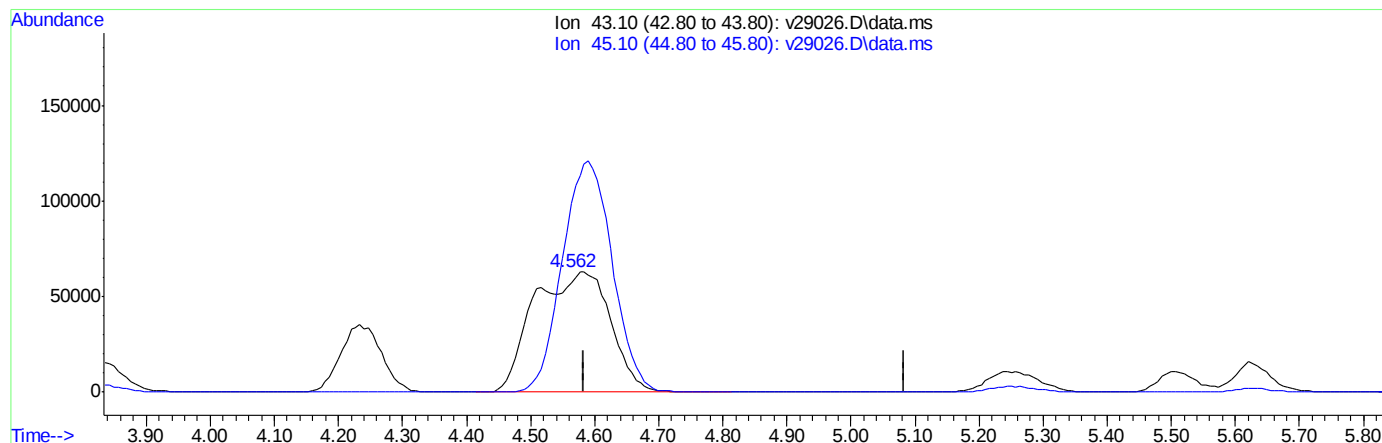
Quant Time: Mar 26 08:47:12 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29026.D
Acq On : 25 Mar 2014 10:04 am
Operator : amym
Sample : bs
Misc : MS31373,MSV1088,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 25 10:24:31 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (-0.020) 40.38ug/L m

response 522213

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140325\
 Data File : v29050.D
 Acq On : 25 Mar 2014 8:40 pm
 Operator : amym
 Sample : mc29163-1ms
 Misc : MS31386,MSV1088,,,,,5,5
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 08:55:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.498	65	37181	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.552	168	275947	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.736	114	366276	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	178057	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.289	152	186023	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.429	113	157170	41.48	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.96%		
60) toluene-d8 (s)	9.549	98	417141	45.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.04%		
82) bromofluorobenzene (s)	12.226	95	170557	45.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.64%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.609	59	44924	485.73	ug/L	# 58
3) Ethanol	2.487	45	53985	3806.23	ug/L	# 100
5) dichlorodifluoromethane	1.486	85	217370	28.94	ug/L	99
6) chloromethane	1.609	50	233186	40.61	ug/L	90
7) vinyl chloride	1.717	62	202185	37.83	ug/L	99
8) bromomethane	2.006	96	182773	40.69	ug/L	97
9) chloroethane	2.097	64	111810	42.48	ug/L	99
10) ethyl ether	2.596	59	79742	40.05	ug/L	93
11) acetonitrile	3.286	41	200891	41.33	ug/L	78
12) trichlorofluoromethane	2.335	101	418687	49.05	ug/L	96
13) freon-113	2.888	101	203622	46.13	ug/L	96
14) acrolein	2.746	56	45274	263.37	ug/L	95
15) 1,1-dichloroethene	2.860	96	158608	45.05	ug/L	82
16) acetone	2.893	58	4170	20.89	ug/L	# 46
17) Methyl Acetate	3.269	43	43753	38.35	ug/L	96
18) methylene chloride	3.455	84	141060	39.32	ug/L	87
19) methyl tert butyl ether	3.828	73	263559	40.75	ug/L	93
20) acrylonitrile	3.773	53	21986	36.21	ug/L	96
21) allyl chloride	3.286	41	200891	41.32	ug/L	88
22) trans-1,2-dichloroethene	3.826	96	150713	41.39	ug/L	89
23) iodomethane	3.025	142	353454	38.57	ug/L	78
24) carbon disulfide	3.110	76	472606	39.25	ug/L	100
25) propionitrile	5.635	54	5941	34.32	ug/L	100
26) vinyl acetate	4.574	43	312840	38.85	ug/L	87
27) chloroprene	4.611	53	254986	56.05	ug/L	80
28) di-isopropyl ether	4.598	45	373953	39.68	ug/L	86
29) methacrylonitrile	5.907	41	36266	37.11	ug/L	85
30) 2-butanone	5.520	72	5802	31.93	ug/L	# 85
31) Hexane	4.245	41	117050	37.84	ug/L	# 69
32) 1,1-dichloroethane	4.501	63	261385	41.91	ug/L	98
33) tert-butyl ethyl ether	5.265	59	288273	41.70	ug/L	95
34) isobutyl alcohol	4.574	43	312840	195.23	ug/L	54
35) 2,2-dichloropropane	5.538	77	218645	42.09	ug/L	91
36) cis-1,2-dichloroethene	5.520	96	141700	41.30	ug/L	92

7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29050.D
 Acq On : 25 Mar 2014 8:40 pm
 Operator : amym
 Sample : mc29163-1ms
 Misc : MS31386,MSV1088,,,,,5,5
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 08:55:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.577	43	312854m	38.61	ug/L	
38) bromochloromethane	5.941	128	65357	40.64	ug/L	97
39) chloroform	6.159	83	297129	43.01	ug/L	97
41) Tetrahydrofuran	5.949	42	10716	32.60	ug/L	80
42) 1,1,1-trichloroethane	6.407	97	341205	50.74	ug/L	96
44) Cyclohexane	6.514	56	191214	41.72	ug/L	97
45) carbon tetrachloride	6.662	117	339780	57.69	ug/L	100
46) 1,1-dichloropropene	6.674	75	188737	48.33	ug/L	94
47) benzene	6.994	78	412898	42.20	ug/L	99
48) 1,2-dichloroethane	7.118	62	191687	48.15	ug/L	94
49) tert-amyl methyl ether	7.284	73	189711	43.50	ug/L	90
50) heptane	7.554	43	100796	38.40	ug/L	88
51) trichloroethene	8.028	95	145858	45.94	ug/L	94
52) 1,2-dichloropropane	8.376	63	103006	44.36	ug/L	100
53) dibromomethane	8.480	93	66714	46.49	ug/L	86
54) bromodichloromethane	8.732	83	182132	48.87	ug/L	99
55) Methylcyclohexane	8.333	83	176632	43.03	ug/L	94
57) methyl methacrylate	8.510	69	29255	38.87	ug/L #	73
58) 1,4-dioxane	8.489	88	1771	160.81	ug/L	86
59) cis-1,3-dichloropropene	9.261	75	131934	38.85	ug/L	93
61) 4-methyl-2-pentanone	9.444	43	45259	39.21	ug/L	86
62) toluene	9.625	92	286243	47.84	ug/L	98
63) trans-1,3-dichloropropene	9.912	75	112406	52.96	ug/L	93
64) 1,1,2-trichloroethane	10.119	83	59500	45.04	ug/L	97
65) ethyl methacrylate	9.993	69	68932	39.69	ug/L	82
67) tetrachloroethene	10.178	166	154694	49.78	ug/L	91
68) 1,3-dichloropropane	10.280	76	114920	44.04	ug/L	98
69) dibromochloromethane	10.500	129	114237	45.72	ug/L	99
70) 1,2-dibromoethane	10.610	107	70241	44.22	ug/L	100
71) 2-hexanone	10.352	43	27285	32.02	ug/L	82
72) chlorobenzene	11.106	112	347422	44.49	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.206	131	165409	52.35	ug/L	94
74) ethylbenzene	11.211	91	660202	49.79	ug/L	93
75) m,p-xylene	11.342	106	456643	95.83	ug/L	84
76) o-xylene	11.709	106	231760	47.30	ug/L	82
77) styrene	11.730	104	340598	47.38	ug/L	85
78) bromoform	11.904	173	52573	43.25	ug/L	96
79) trans-1,4-dichloro-2-b...	12.122	53	19932m	37.18	ug/L	
81) isopropylbenzene	12.061	105	706623	51.00	ug/L	98
83) bromobenzene	12.351	156	148859	47.22	ug/L	90
84) 1,1,2,2-tetrachloroethane	12.356	83	78068	44.25	ug/L	97
85) 1,2,3-trichloropropane	12.407	75	76876	42.29	ug/L	100
86) n-propylbenzene	12.450	91	749431	47.99	ug/L	97
87) 2-chlorotoluene	12.529	91	489589	47.22	ug/L	95
88) 4-chlorotoluene	12.639	91	560017	48.68	ug/L	94
89) 1,3,5-trimethylbenzene	12.619	105	614260	51.32	ug/L	95
90) tert-butylbenzene	12.906	91	358191	52.00	ug/L	88
91) 1,2,4-trimethylbenzene	12.959	105	602794	49.65	ug/L	95
92) sec-butylbenzene	13.108	105	686024	50.00	ug/L	99
93) 1,3-dichlorobenzene	13.216	146	302204	44.25	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29050.D
Acq On : 25 Mar 2014 8:40 pm
Operator : amym
Sample : mc29163-1ms
Misc : MS31386,MSV1088,,,,,5,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 08:55:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	p-isopropyltoluene	13.249	119	634849	51.25	ug/L	95
95)	1,4-dichlorobenzene	13.312	146	294201	44.19	ug/L	98
96)	1,2-dichlorobenzene	13.628	146	273506	42.33	ug/L	99
97)	n-butylbenzene	13.614	91	530414	49.04	ug/L	100
98)	1,2-dibromo-3-chloropr...	14.330	75	10581	36.11	ug/L	79
99)	1,3,5-trichlorobenzene	14.495	180	202832	41.25	ug/L	100
100)	1,2,4-trichlorobenzene	15.050	180	137819	34.14	ug/L	99
101)	hexachlorobutadiene	15.172	225	71351	41.50	ug/L	96
102)	naphthalene	15.285	128	144832	28.89	ug/L	100
103)	1,2,3-trichlorobenzene	15.473	180	90631	31.83	ug/L	98
104)	2-Methylnaphthalene	16.282	142	6328	12.75	ug/L	97
105)	1-Methylnaphthalene	16.452	142	4207	9.88	ug/L	100

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

7.4.1

7

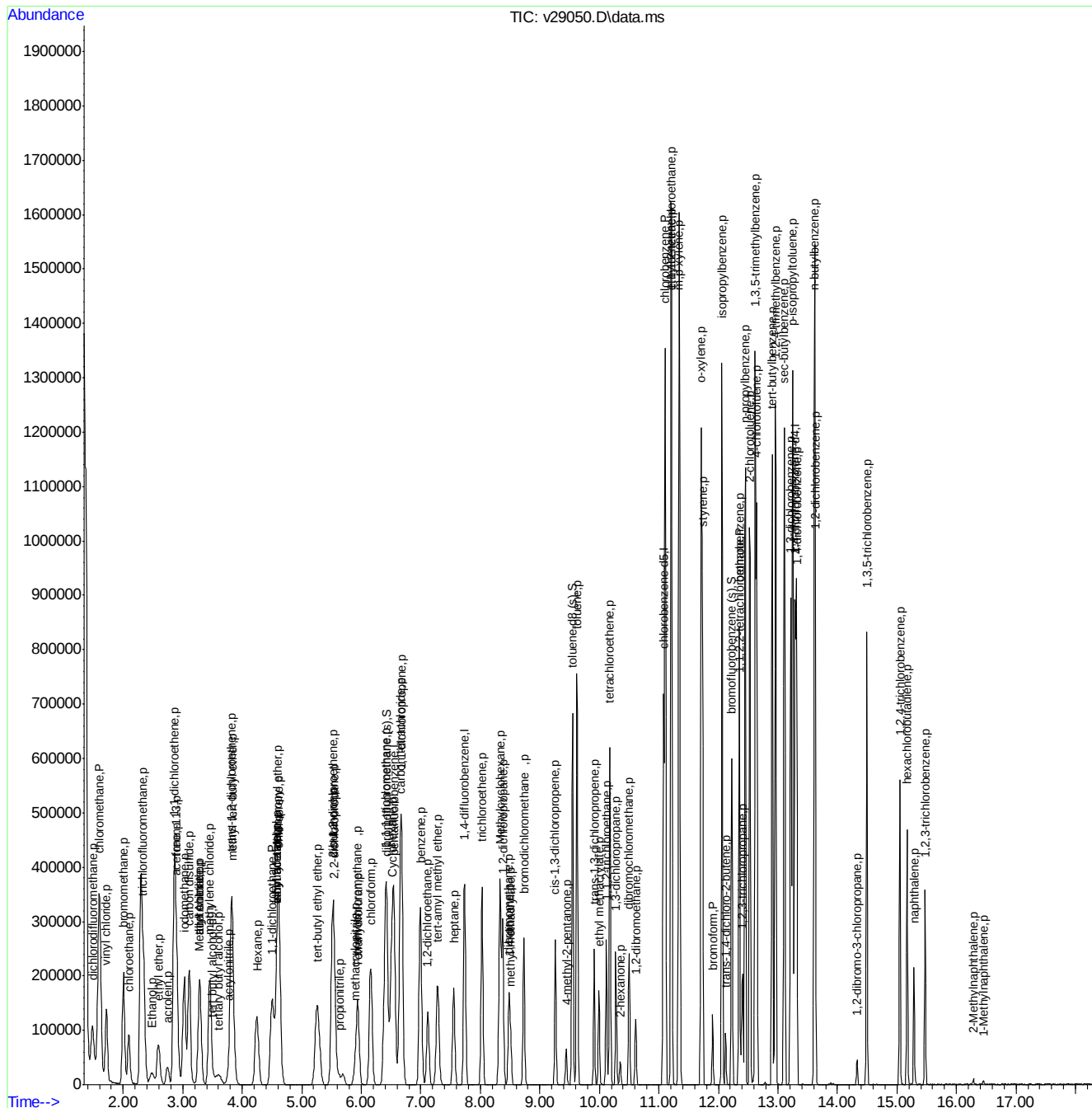
Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\V140325\
Data File   : v29050.D
Acq On      : 25 Mar 2014    8:40 pm
Operator    : amym
Sample      : mc29163-1ms
Misc        : MS31386,MSV1088,,,,,5,5
ALS Vial    : 26      Sample Multiplier: 1

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Quant Time: Mar 26 08:55:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



v140226w.m Wed Mar 26 08:56:04 2014

Page: 4

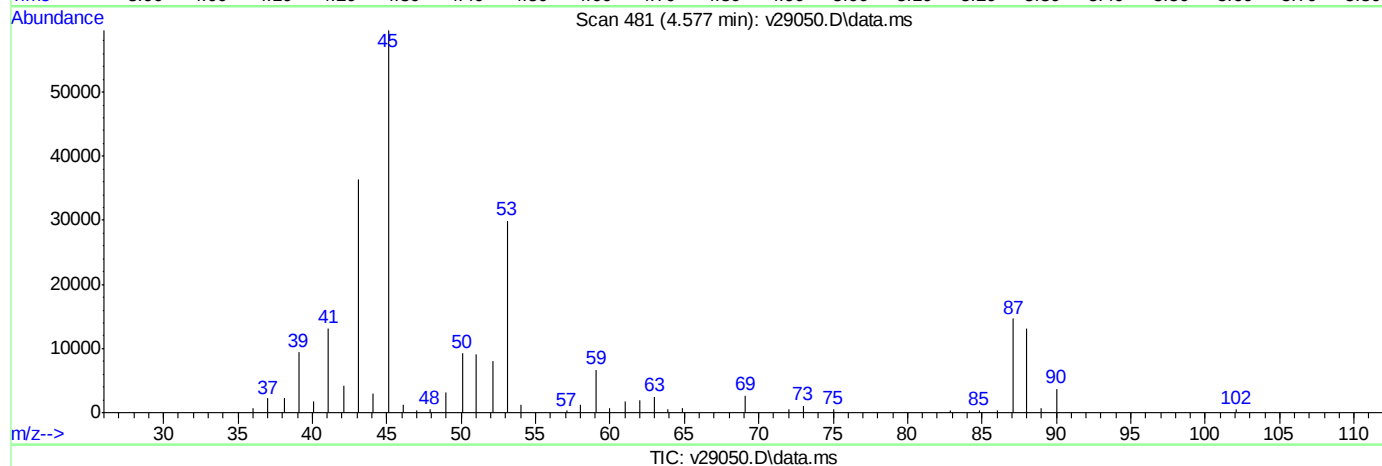
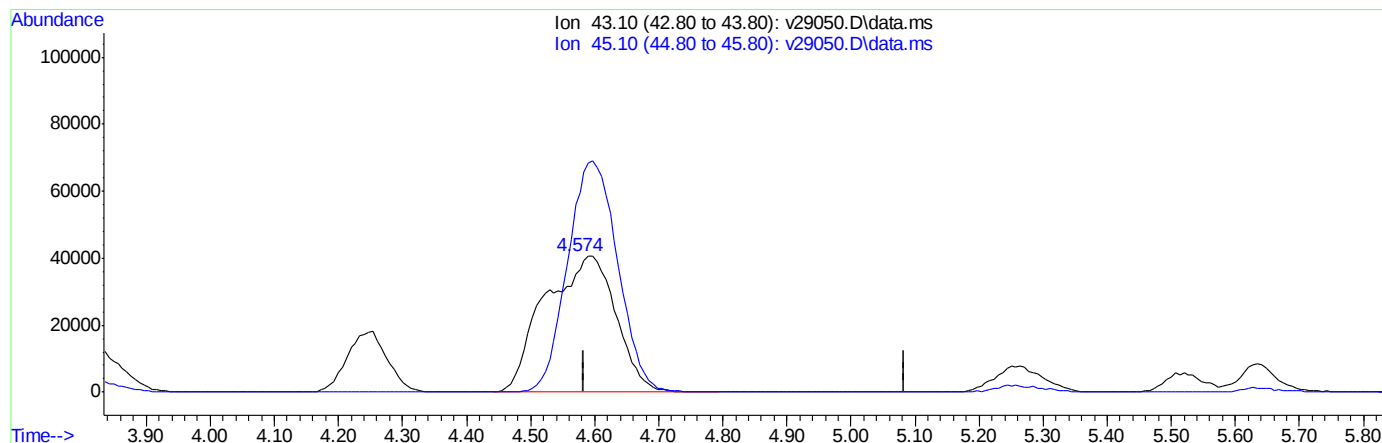
7.4.1



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29050.D
Acq On : 25 Mar 2014 8:40 pm
Operator : amym
Sample : mc29163-1ms
Misc : MS31386,MSV1088,,,,,5,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 08:39:14 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.577min (-0.007) 38.61ug/L m

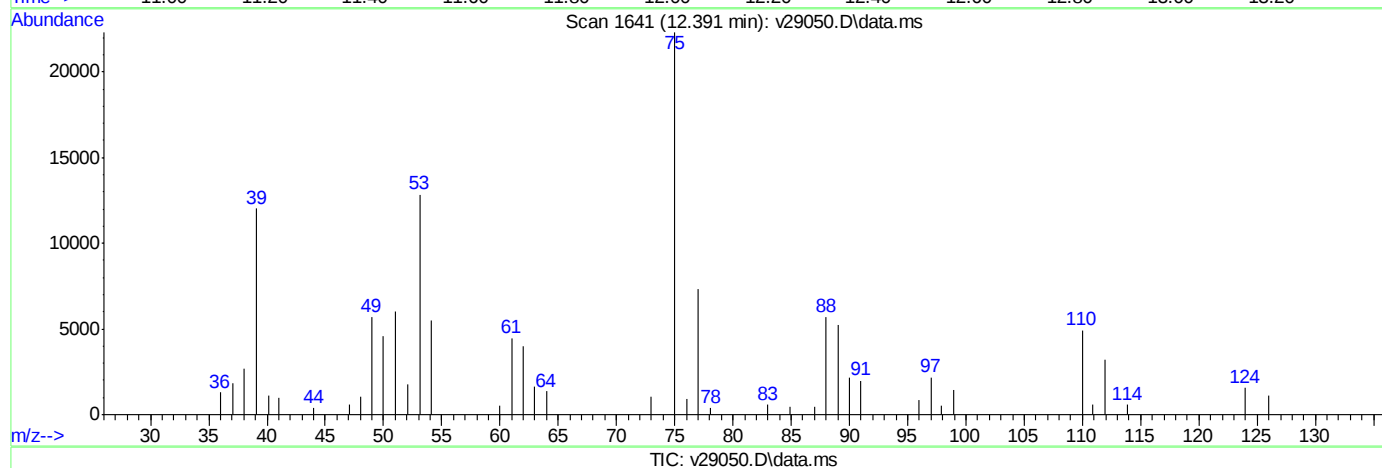
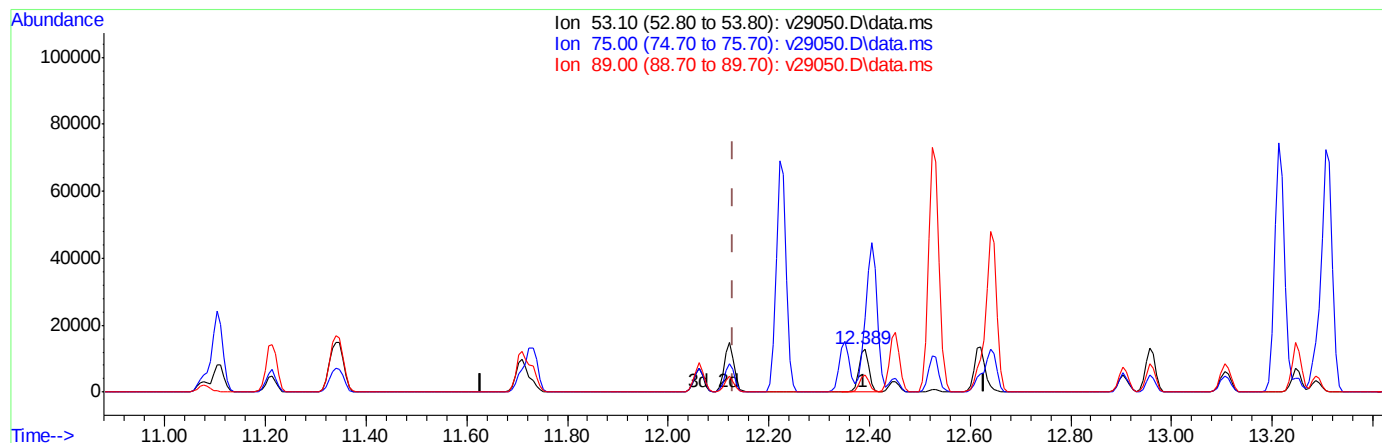
response 312854

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140325\
Data File : v29050.D
Acq On : 25 Mar 2014 8:40 pm
Operator : amym
Sample : mc29163-1ms
Misc : MS31386,MSV1088,,,,5,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 08:39:14 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.389min (+0.260) 33.74ug/L

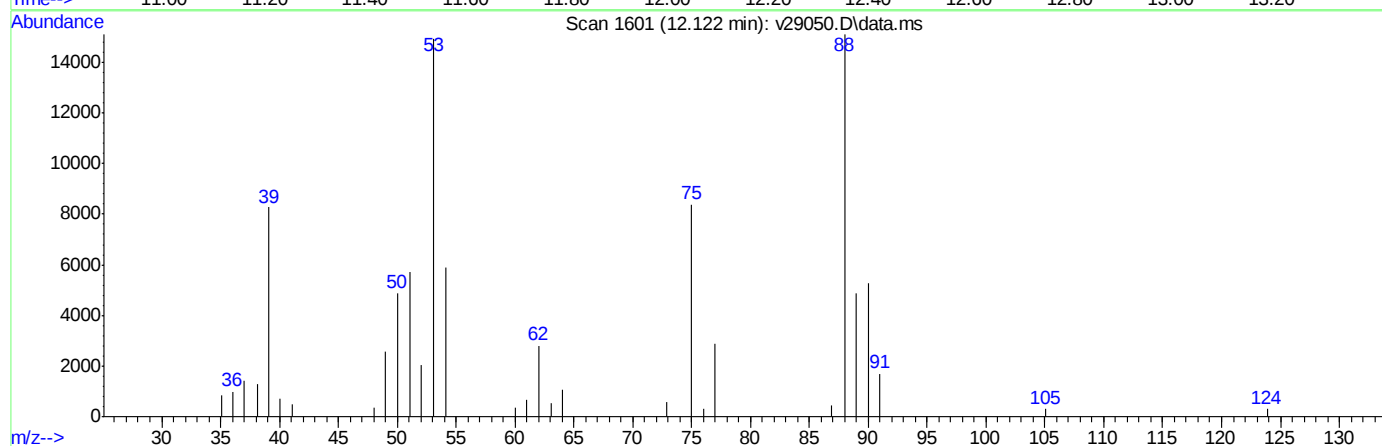
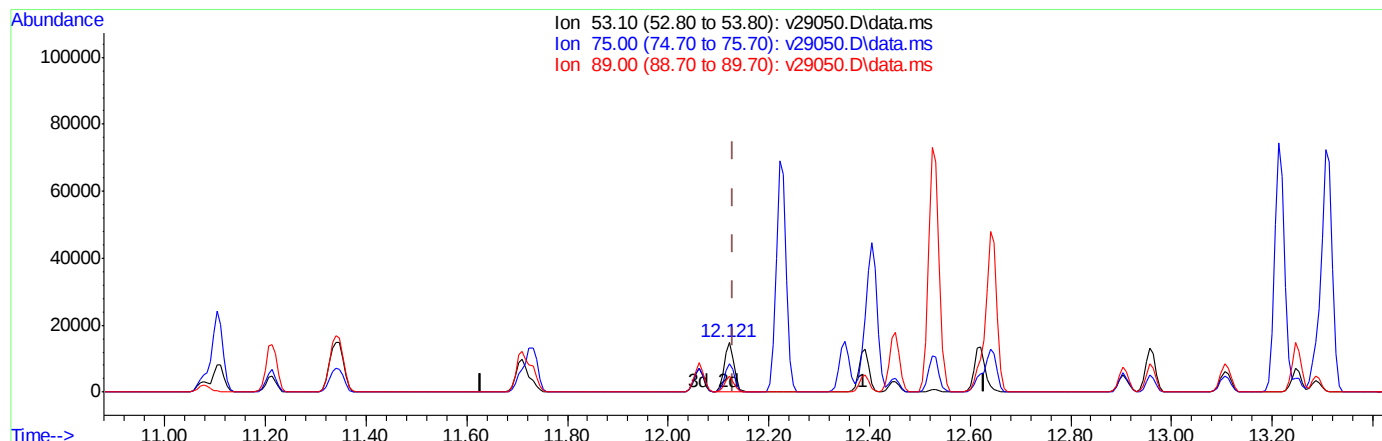
response 17967

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	131.68
89.00	51.30	40.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29050.D
Acq On : 25 Mar 2014 8:40 pm
Operator : amym
Sample : mc29163-1ms
Misc : MS31386,MSV1088,,,,5,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 08:39:14 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.122min (-0.007) 37.18ug/L m

response 19932

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	56.17#
89.00	51.30	32.71
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29051.D
 Acq On : 25 Mar 2014 9:06 pm
 Operator : amym
 Sample : mc29163-1msd
 Misc : MS31386,MSV1088,,,,,5,5
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:56:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.495	65	36969	500.00	ug/L	#-0.01
4) pentafluorobenzene	6.551	168	285241	50.00	ug/L	-0.02
43) 1,4-difluorobenzene	7.735	114	383766	50.00	ug/L	-0.01
66) chlorobenzene-d5	11.077	82	182688	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.289	152	184852	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.429	113	161580	41.25	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.50%		
60) toluene-d8 (s)	9.549	98	428536	44.14	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.28%		
82) bromofluorobenzene (s)	12.226	95	172259	46.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.14%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.607	59	46173	502.09	ug/L	# 56
3) Ethanol	2.488	45	59366	4220.98	ug/L	# 100
5) dichlorodifluoromethane	1.486	85	226067	29.11	ug/L	98
6) chloromethane	1.609	50	246344	41.50	ug/L	94
7) vinyl chloride	1.717	62	216017	39.10	ug/L	100
8) bromomethane	2.006	96	193856	41.75	ug/L	100
9) chloroethane	2.098	64	122647	45.08	ug/L	97
10) ethyl ether	2.595	59	85262	41.43	ug/L	97
11) acetonitrile	3.286	41	216281	43.04	ug/L	77
12) trichlorofluoromethane	2.334	101	424428	48.10	ug/L	97
13) freon-113	2.887	101	211782	46.42	ug/L	94
14) acrolein	2.746	56	48439	272.60	ug/L	95
15) 1,1-dichloroethene	2.859	96	163678	44.98	ug/L	83
16) acetone	2.892	58	4680	22.68	ug/L	# 32
17) Methyl Acetate	3.268	43	46200	39.17	ug/L	95
18) methylene chloride	3.454	84	151681	40.90	ug/L	88
19) methyl tert butyl ether	3.828	73	278211	41.62	ug/L	93
20) acrylonitrile	3.773	53	23576	37.56	ug/L	99
21) allyl chloride	3.286	41	216281	43.04	ug/L	90
22) trans-1,2-dichloroethene	3.825	96	162455	43.16	ug/L	88
23) iodomethane	3.025	142	377741	39.88	ug/L	81
24) carbon disulfide	3.109	76	501326	40.28	ug/L	99
25) propionitrile	5.629	54	6131	34.27	ug/L	100
26) vinyl acetate	4.572	43	335256	40.27	ug/L	88
27) chloroprene	4.610	53	266918	56.76	ug/L	80
28) di-isopropyl ether	4.597	45	397604	40.81	ug/L	90
29) methacrylonitrile	5.908	41	38811	38.42	ug/L	79
30) 2-butanone	5.521	72	5973	31.80	ug/L	# 85
31) Hexane	4.243	41	121773	38.08	ug/L	# 71
32) 1,1-dichloroethane	4.500	63	281598	43.68	ug/L	97
33) tert-butyl ethyl ether	5.264	59	312847	43.79	ug/L	97
34) isobutyl alcohol	4.572	43	335256	202.41	ug/L	59
35) 2,2-dichloropropane	5.537	77	228348	42.50	ug/L	91
36) cis-1,2-dichloroethene	5.520	96	151285	42.66	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29051.D
 Acq On : 25 Mar 2014 9:06 pm
 Operator : amym
 Sample : mc29163-1msd
 Misc : MS31386,MSV1088,,,,5,5
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:56:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.570	43	335260m	40.03	ug/L	
38) bromochloromethane	5.940	128	69409	41.75	ug/L	94
39) chloroform	6.159	83	315099	44.12	ug/L	100
41) Tetrahydrofuran	5.947	42	11267	33.16	ug/L	94
42) 1,1,1-trichloroethane	6.406	97	352854	50.76	ug/L	97
44) Cyclohexane	6.512	56	199697	41.58	ug/L	97
45) carbon tetrachloride	6.661	117	345851	56.04	ug/L	98
46) 1,1-dichloropropene	6.674	75	196780	48.09	ug/L	94
47) benzene	6.993	78	442702	43.18	ug/L	97
48) 1,2-dichloroethane	7.118	62	199857	47.91	ug/L	95
49) tert-amyl methyl ether	7.284	73	202852	44.40	ug/L	91
50) heptane	7.553	43	102828	37.44	ug/L	91
51) trichloroethene	8.028	95	153092	46.02	ug/L	95
52) 1,2-dichloropropane	8.376	63	106981	43.97	ug/L	100
53) dibromomethane	8.480	93	69457	46.19	ug/L	85
54) bromodichloromethane	8.732	83	190078	48.68	ug/L	100
55) Methylcyclohexane	8.332	83	180960	42.13	ug/L	90
57) methyl methacrylate	8.510	69	31207	39.57	ug/L #	79
58) 1,4-dioxane	8.488	88	2210	187.14	ug/L	76
59) cis-1,3-dichloropropene	9.260	75	141579	39.76	ug/L	95
61) 4-methyl-2-pentanone	9.444	43	46960	38.83	ug/L	88
62) toluene	9.625	92	300008	47.86	ug/L	97
63) trans-1,3-dichloropropene	9.912	75	119996	53.81	ug/L	90
64) 1,1,2-trichloroethane	10.119	83	62179	44.92	ug/L	99
65) ethyl methacrylate	9.994	69	72836	40.03	ug/L	82
67) tetrachloroethene	10.178	166	159015	49.87	ug/L	92
68) 1,3-dichloropropane	10.280	76	121378	45.34	ug/L	96
69) dibromochloromethane	10.500	129	118241	46.12	ug/L	98
70) 1,2-dibromoethane	10.609	107	74871	45.94	ug/L	100
71) 2-hexanone	10.352	43	29040	33.21	ug/L	79
72) chlorobenzene	11.106	112	367649	45.89	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.206	131	173473	53.51	ug/L	93
74) ethylbenzene	11.211	91	684007	50.27	ug/L	94
75) m,p-xylene	11.342	106	472408	96.63	ug/L #	80
76) o-xylene	11.710	106	243871	48.51	ug/L #	80
77) styrene	11.730	104	355724	48.23	ug/L	85
78) bromoform	11.904	173	54141	43.41	ug/L	99
79) trans-1,4-dichloro-2-b...	12.122	53	20087m	36.56	ug/L	
81) isopropylbenzene	12.062	105	730727	53.08	ug/L	96
83) bromobenzene	12.352	156	155514	49.64	ug/L	93
84) 1,1,2,2-tetrachloroethane	12.357	83	82169	46.87	ug/L	98
85) 1,2,3-trichloropropane	12.407	75	82435	45.64	ug/L	100
86) n-propylbenzene	12.450	91	777891	50.13	ug/L	97
87) 2-chlorotoluene	12.529	91	507115	49.22	ug/L	97
88) 4-chlorotoluene	12.640	91	574544	50.26	ug/L	94
89) 1,3,5-trimethylbenzene	12.620	105	633714	53.28	ug/L	94
90) tert-butylbenzene	12.906	91	371390	54.26	ug/L	87
91) 1,2,4-trimethylbenzene	12.960	105	622690	51.61	ug/L	96
92) sec-butylbenzene	13.109	105	719954	52.81	ug/L	98
93) 1,3-dichlorobenzene	13.217	146	319421	47.06	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29051.D
Acq On : 25 Mar 2014 9:06 pm
Operator : amym
Sample : mc29163-1msd
Misc : MS31386,MSV1088,,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:56:47 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

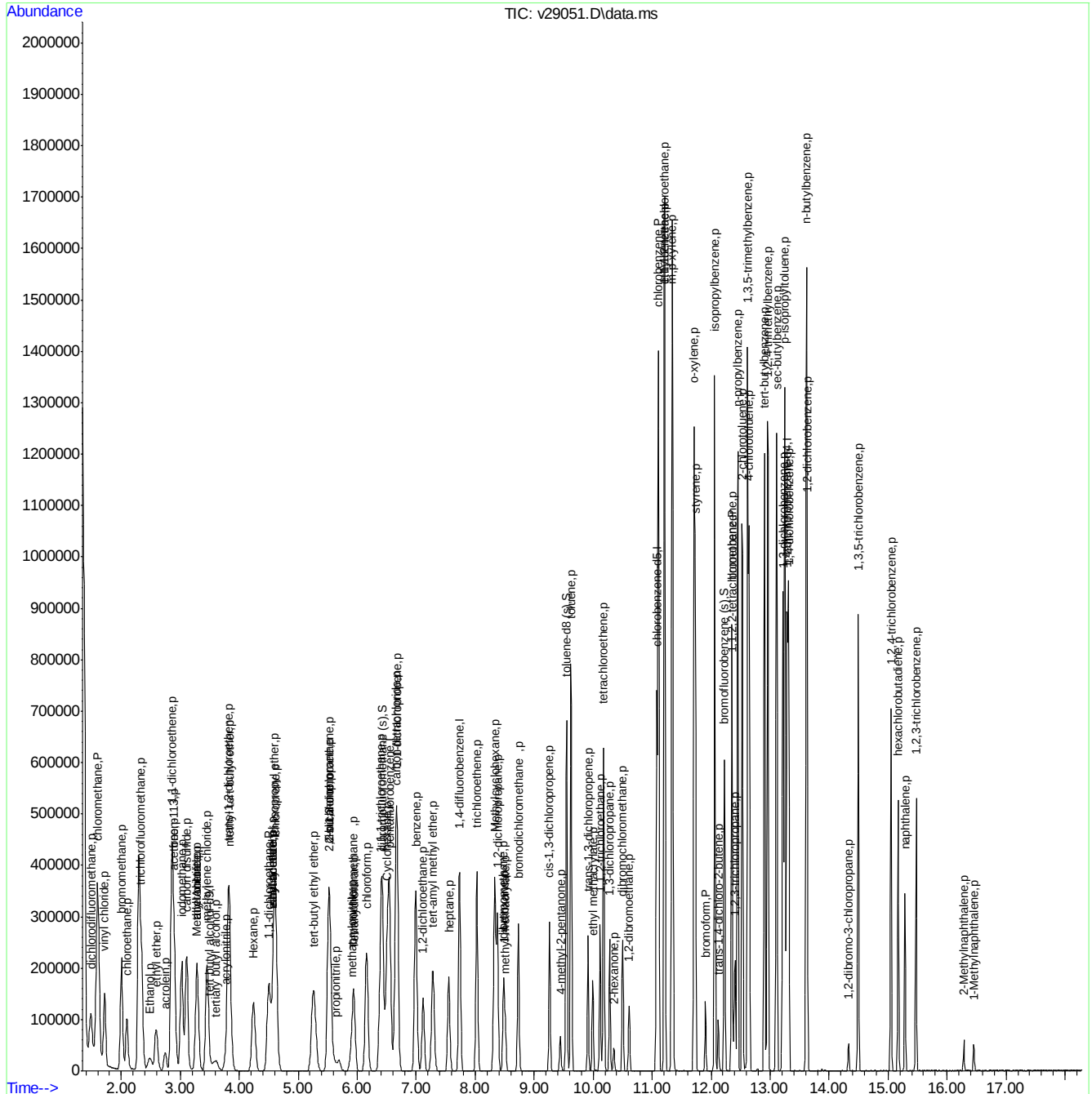
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.250	119	658265	53.48	ug/L	95
95) 1,4-dichlorobenzene	13.312	146	307406	46.47	ug/L	98
96) 1,2-dichlorobenzene	13.629	146	289260	45.05	ug/L	100
97) n-butylbenzene	13.614	91	550534	51.22	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.331	75	12245	41.66	ug/L	85
99) 1,3,5-trichlorobenzene	14.496	180	225051	46.06	ug/L	98
100) 1,2,4-trichlorobenzene	15.051	180	175014	43.64	ug/L	99
101) hexachlorobutadiene	15.172	225	78020	45.67	ug/L	92
102) naphthalene	15.285	128	229511	46.07	ug/L	100
103) 1,2,3-trichlorobenzene	15.474	180	136480	48.24	ug/L	97
104) 2-Methylnaphthalene	16.284	142	26210	21.19	ug/L	99
105) 1-Methylnaphthalene	16.454	142	23406	21.68	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29051.D
Acq On : 25 Mar 2014 9:06 pm
Operator : amym
Sample : mc29163-1msd
Misc : MS31386,MSV1088,,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:56:47 2014
Quant Method : C:\msdchem\1\METHODS\140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



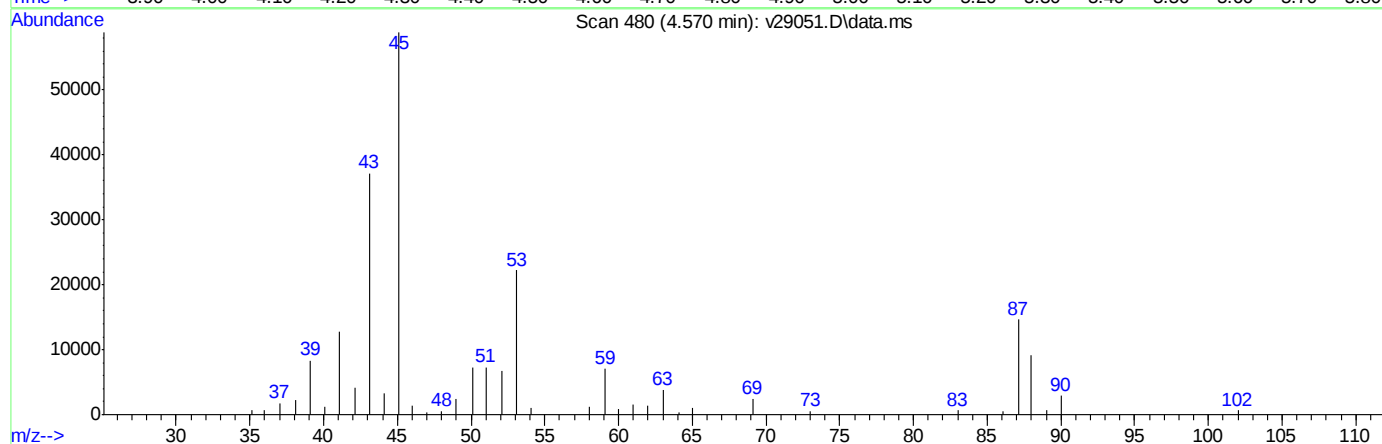
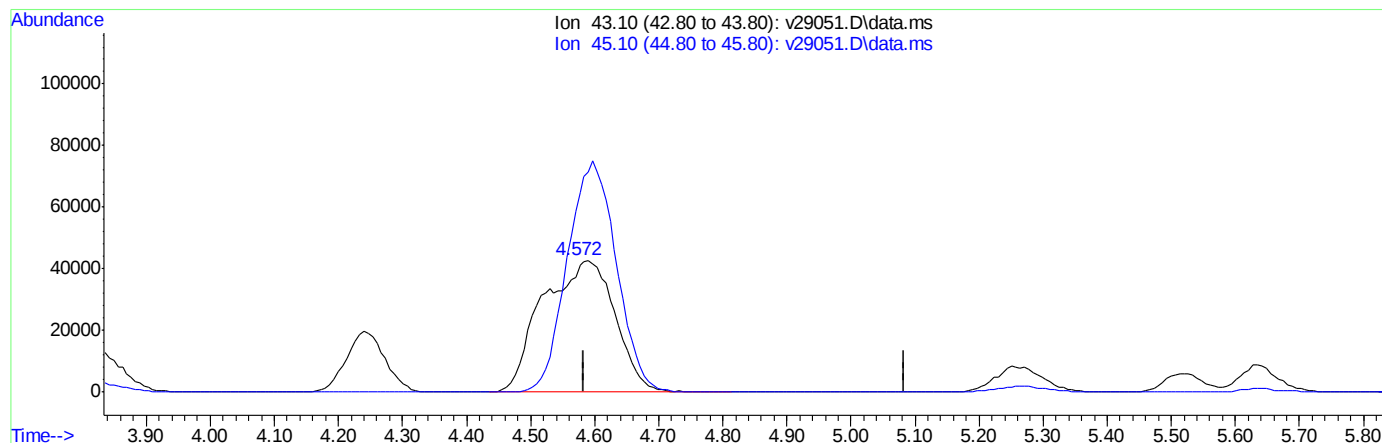
v140226w.m Wed Mar 26 08:57:05 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29051.D
Acq On : 25 Mar 2014 9:06 pm
Operator : amym
Sample : mc29163-1msd
Misc : MS31386,MSV1088,,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:39:17 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.570min (-0.014) 40.03ug/L m

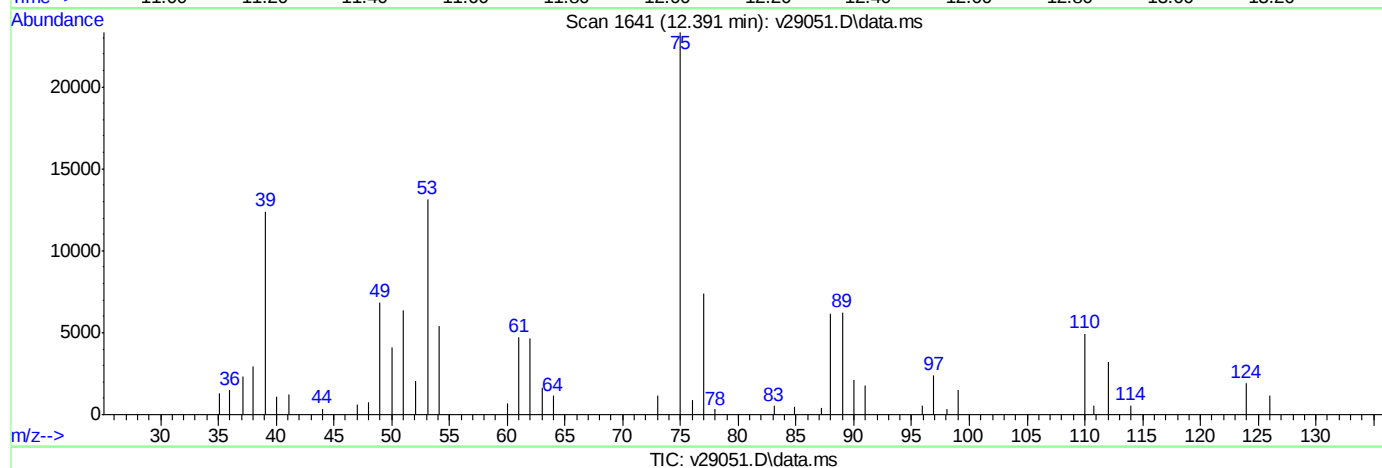
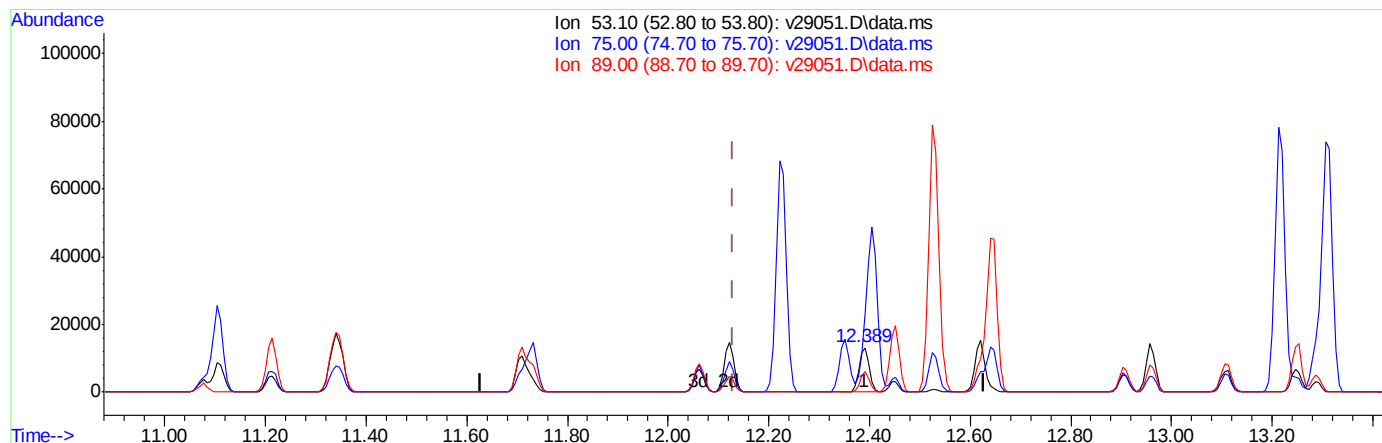
response 335260

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140325\
Data File : v29051.D
Acq On : 25 Mar 2014 9:06 pm
Operator : amym
Sample : mc29163-1msd
Misc : MS31386,MSV1088,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:39:17 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.389min (+0.260) 33.20ug/L

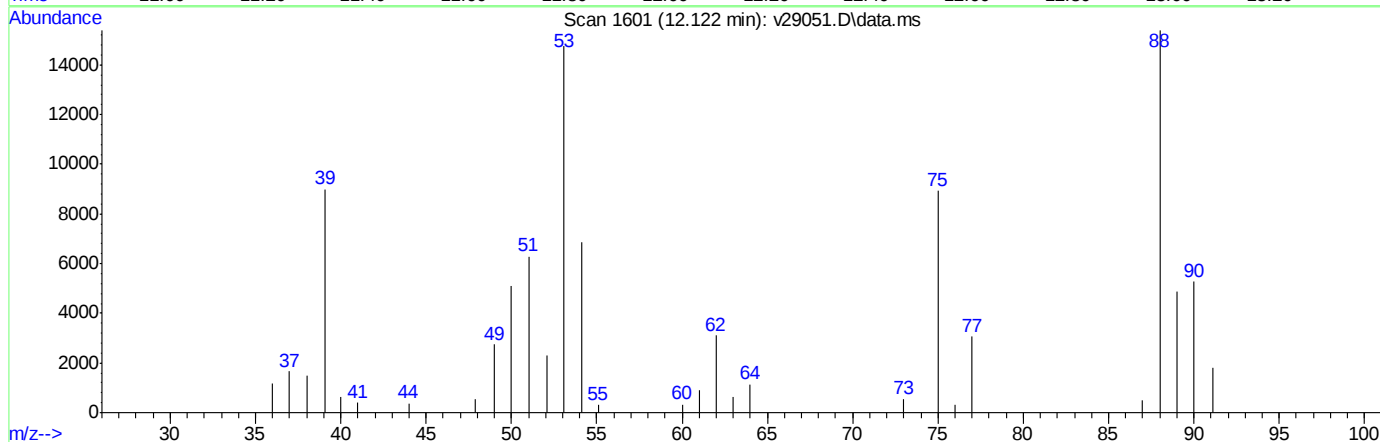
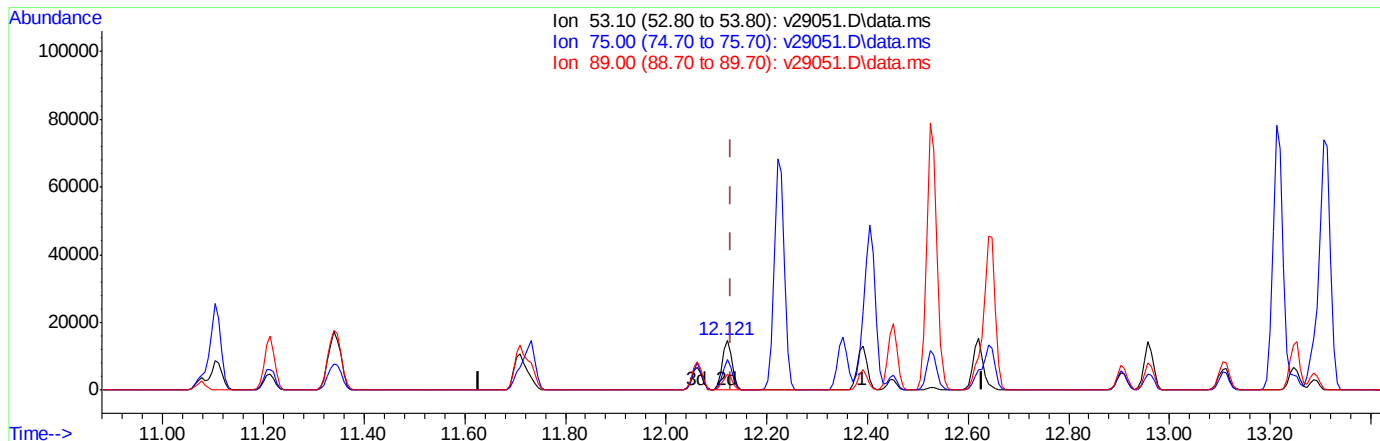
response 18118

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	134.06
89.00	51.30	47.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29051.D
Acq On : 25 Mar 2014 9:06 pm
Operator : amym
Sample : mc29163-1msd
Misc : MS31386,MSV1088,,,,5,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 26 08:39:17 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.122min (-0.007) 36.56ug/L m

response 20087

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	60.53#
89.00	51.30	32.96
0.00	0.00	0.00

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140226\v28201.D

Vial: 11

Acq On : 26 Feb 2014 1:50 pm

Operator: amym

Sample : bfb

Inst : MSV

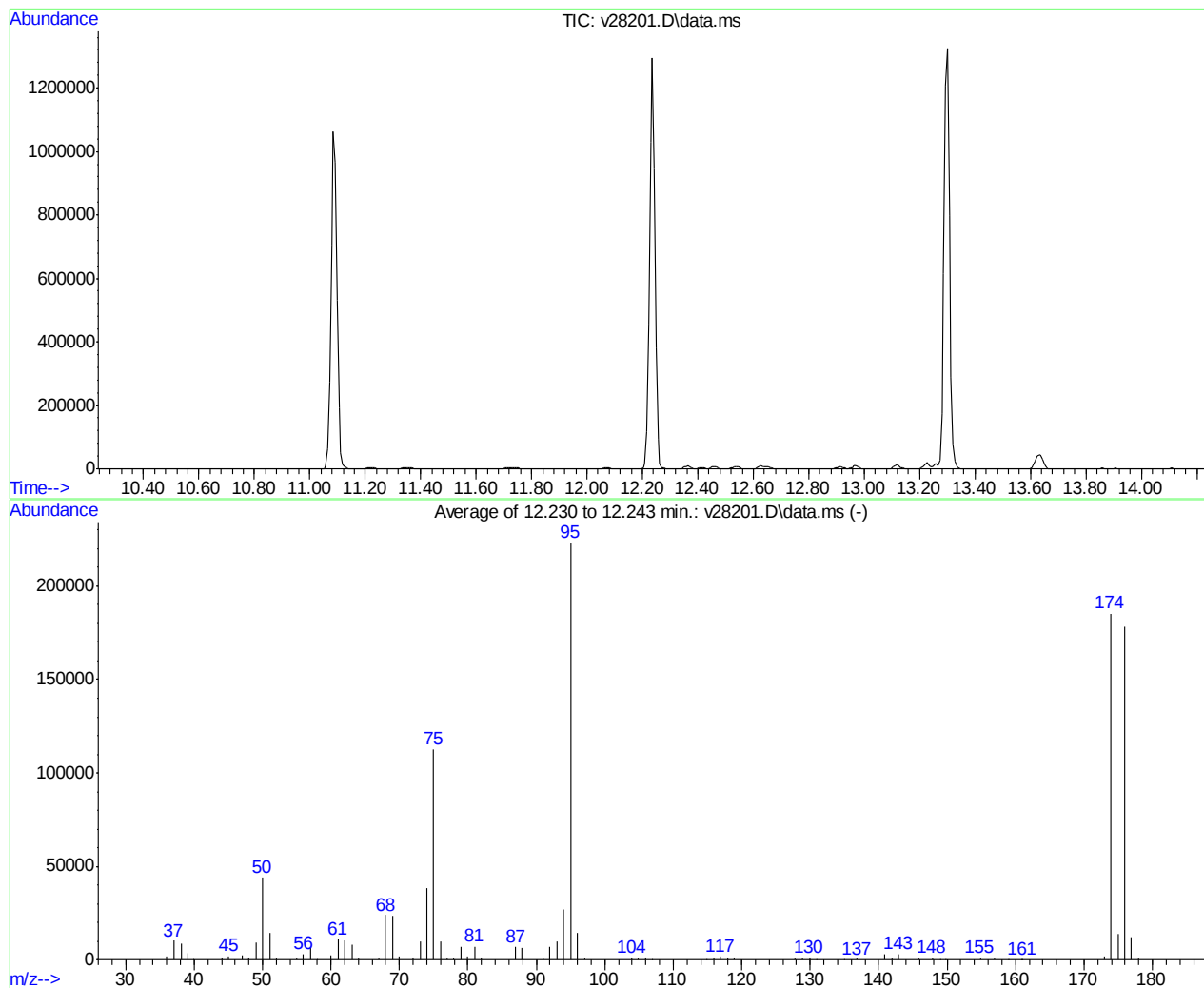
Misc : MS31132,MSV1058,,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140226w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Average of 12.230 to 12.243 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	43757	PASS
75	95	30	60	50.6	112859	PASS
95	95	100	100	100.0	223104	PASS
96	95	5	9	6.5	14499	PASS
173	174	0.00	2	1.0	1929	PASS
174	95	50	100	83.0	185195	PASS
175	174	5	9	7.5	13798	PASS
176	174	95	101	96.4	178539	PASS
177	176	5	9	6.6	11776	PASS

v28201.D v140226w.m Fri Feb 28 09:47:17 2014

Average of 12.230 to 12.243 min.: v28201.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1862	51.05	14154	67.00	556	79.00	6616
37.05	10276	52.05	529	68.00	23885	79.95	1697
38.10	8850	55.05	645	69.00	23707	80.95	6906
39.10	3679	56.00	3145	70.00	1884	82.00	1314
39.90	221	57.00	6168	72.00	1212	86.95	6600
44.00	1118	58.00	110	73.00	9978	87.95	6038
45.05	1972	60.05	2063	74.00	38565	90.95	794
47.00	2240	61.00	10656	75.00	112859	92.00	6824
48.00	1340	62.05	10380	76.05	9894	93.00	9886
49.05	9189	63.05	7741	77.00	875	94.00	26941
50.00	43757	64.00	695	77.90	649	95.00	223104

Average of 12.230 to 12.243 min.: v28201.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	14499	127.85	856	148.90	108	176.95	11776
97.05	405	128.85	402	149.80	138	177.95	391
103.95	1085	129.90	1057	154.90	710		
104.85	403	130.90	275	156.90	467		
105.95	1077	134.95	290	158.90	113		
106.90	107	136.85	371	160.80	100		
114.90	145	140.85	2653	161.00	160		
115.90	978	141.95	366	173.05	1929		
116.90	1573	142.95	2865	173.90	185195		
117.95	904	145.85	342	174.95	13798		
118.90	1256	147.85	587	175.90	178539		

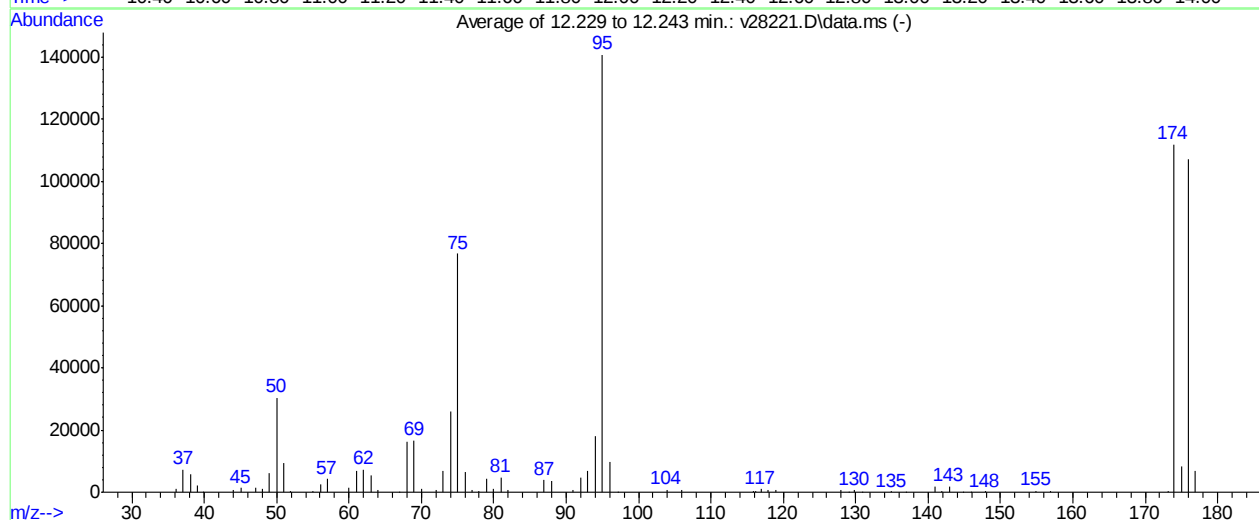
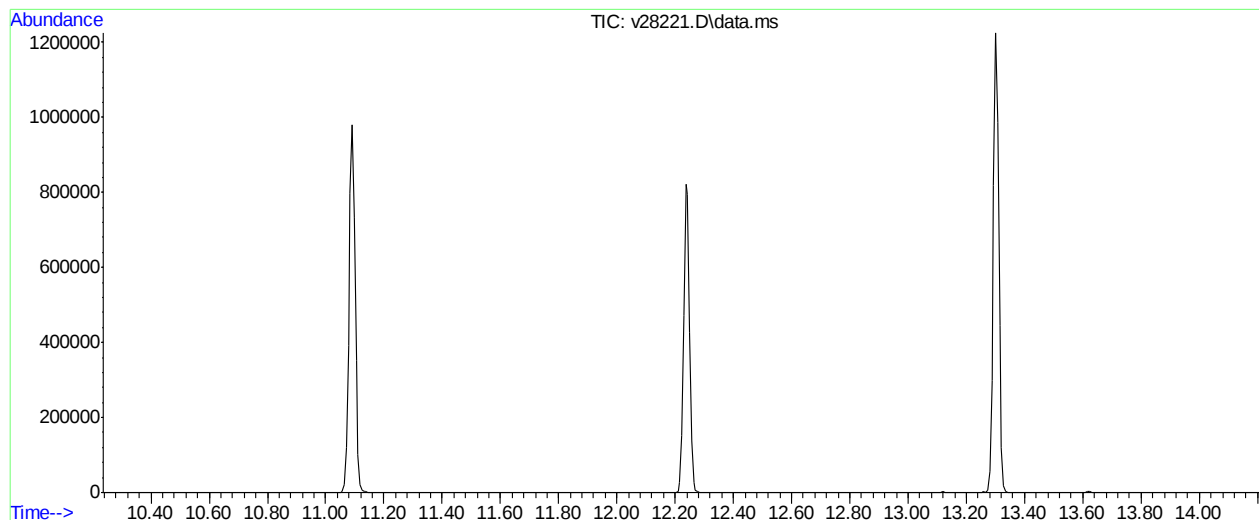
7.5.1

7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140227\v28221.D Vial: 5
Acq On : 27 Feb 2014 11:01 am Operator: amym
Sample : bfb Inst : MSV
Misc : MS31132,MSV1058,,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140226w.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Average of 12.229 to 12.243 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	30301	PASS
75	95	30	60	54.5	76773	PASS
95	95	100	100	100.0	140800	PASS
96	95	5	9	7.0	9892	PASS
173	174	0.00	2	0.5	531	PASS
174	95	50	100	79.4	111797	PASS
175	174	5	9	7.3	8164	PASS
176	174	95	101	95.7	106939	PASS
177	176	5	9	6.3	6783	PASS

v28221.D v140226w.m Fri Feb 28 10:05:06 2014

Average of 12.229 to 12.243 min.: v28221.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1230	51.05	9335	68.00	16276	79.95	1146
37.05	7339	51.95	421	69.00	16724	80.95	4834
38.10	5891	55.05	421	70.00	1213	82.00	777
39.05	2201	56.05	2544	72.05	790	86.95	3878
39.90	159	57.00	4285	73.00	6856	87.95	3569
44.00	859	60.00	1434	74.00	25835	90.95	633
45.05	1338	61.00	7035	75.00	76773	92.00	4798
47.05	1598	62.00	7362	76.05	6428	93.00	6693
48.00	972	63.05	5553	77.00	719	94.00	17890
49.00	6310	64.05	563	77.90	313	95.00	140800
50.00	30301	66.90	154	78.95	4492	96.00	9892

Average of 12.229 to 12.243 min.: v28221.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.10	123	130.90	101	173.10	531		
103.90	802	134.95	230	173.90	111797		
105.95	731	136.90	110	175.00	8164		
115.90	379	140.95	1832	175.95	106939		
116.10	212	141.95	266	176.95	6783		
116.95	1020	142.95	1951				
117.90	637	144.90	115				
118.95	875	145.90	117				
127.95	576	147.90	357				
129.00	103	154.95	412				
129.85	591	156.95	271				

7.5.2

7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140325\v29025.D

Vial: 1

Acq On : 25 Mar 2014 9:38 am

Operator: amym

Sample : bfb

Inst : MSV

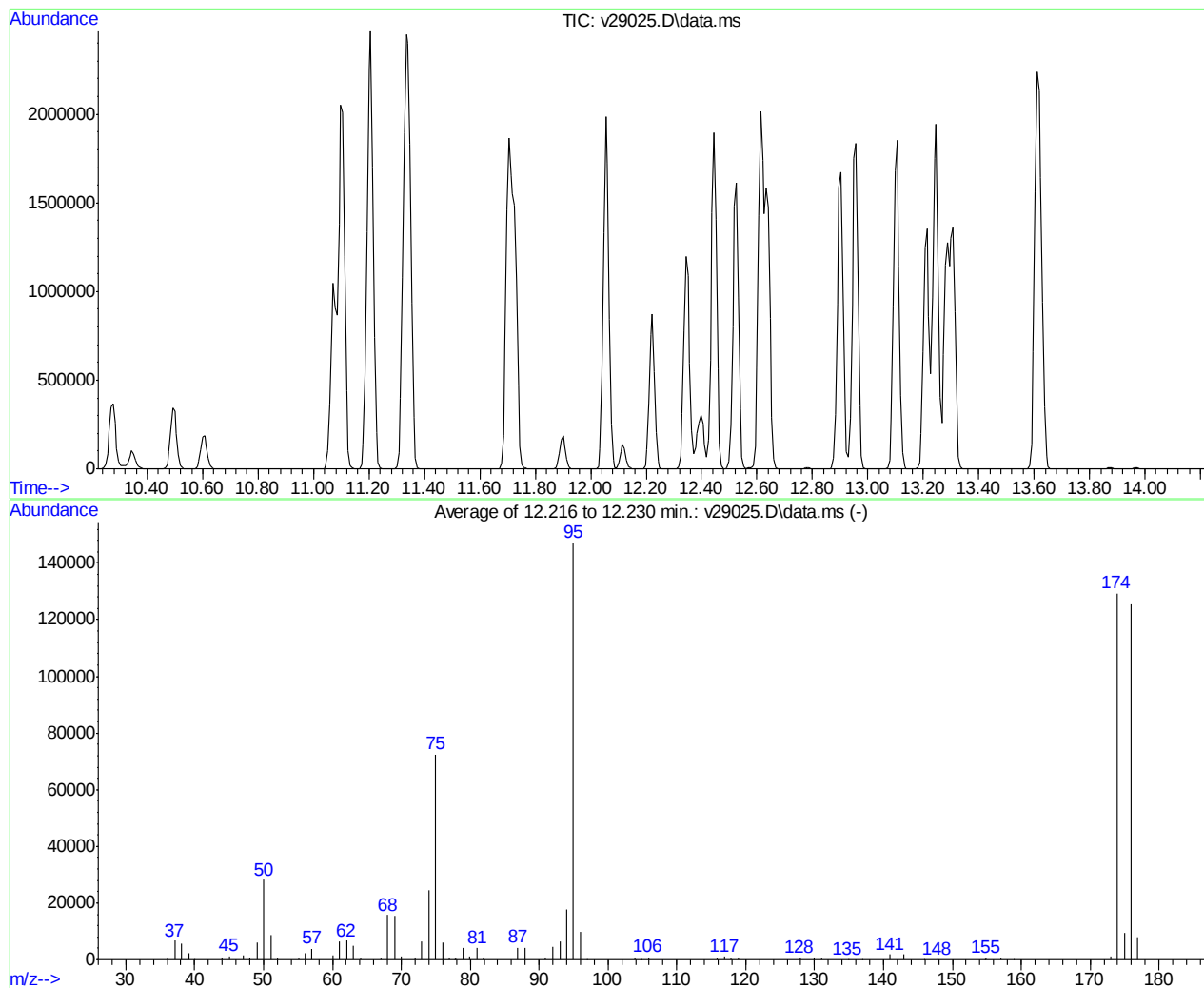
Misc : MS31383,MSV1088,,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140226w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Average of 12.216 to 12.230 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	28171	PASS
75	95	30	60	49.2	72443	PASS
95	95	100	100	100.0	147093	PASS
96	95	5	9	6.6	9678	PASS
173	174	0.00	2	0.8	1087	PASS
174	95	50	100	88.0	129371	PASS
175	174	5	9	7.4	9549	PASS
176	174	95	101	97.0	125507	PASS
177	176	5	9	6.4	8058	PASS

v29025.D v140226w.m Tue Mar 25 10:26:00 2014

Average of 12.216 to 12.230 min.: v29025.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	884	51.05	8807	68.00	15678	79.00	4099
37.10	6654	52.00	308	69.00	15456	79.95	1093
38.10	5785	55.05	418	70.00	985	81.00	4013
39.10	2189	56.05	2110	72.00	747	81.90	825
39.95	29	57.05	3954	73.00	6595	86.95	4250
44.00	890	60.00	1457	74.00	24464	87.95	4105
45.00	1296	61.00	6431	75.00	72443	90.95	590
47.05	1370	62.05	6647	76.00	6219	92.00	4607
48.00	852	63.00	4973	76.95	817	93.00	6587
49.00	6161	64.05	325	77.80	141	94.00	17750
50.05	28171	67.00	274	77.95	308	95.00	147093

Average of 12.216 to 12.230 min.: v29025.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	9678	130.95	266	173.00	1087		
97.00	151	134.90	178	173.90	129371		
103.90	744	136.90	120	174.95	9549		
104.90	148	140.95	1720	175.90	125507		
105.90	792	142.95	1714	176.95	8058		
115.90	565	145.90	126				
116.95	1021	147.90	341				
117.90	583	154.80	116				
118.95	833	154.95	391				
127.90	686	157.00	223				
129.90	648	158.90	110				

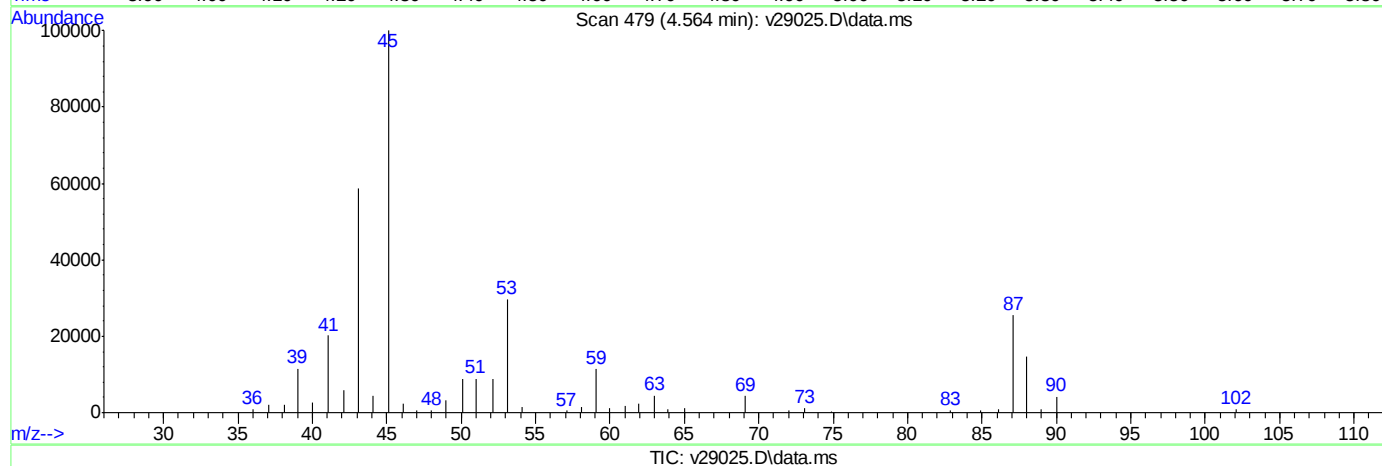
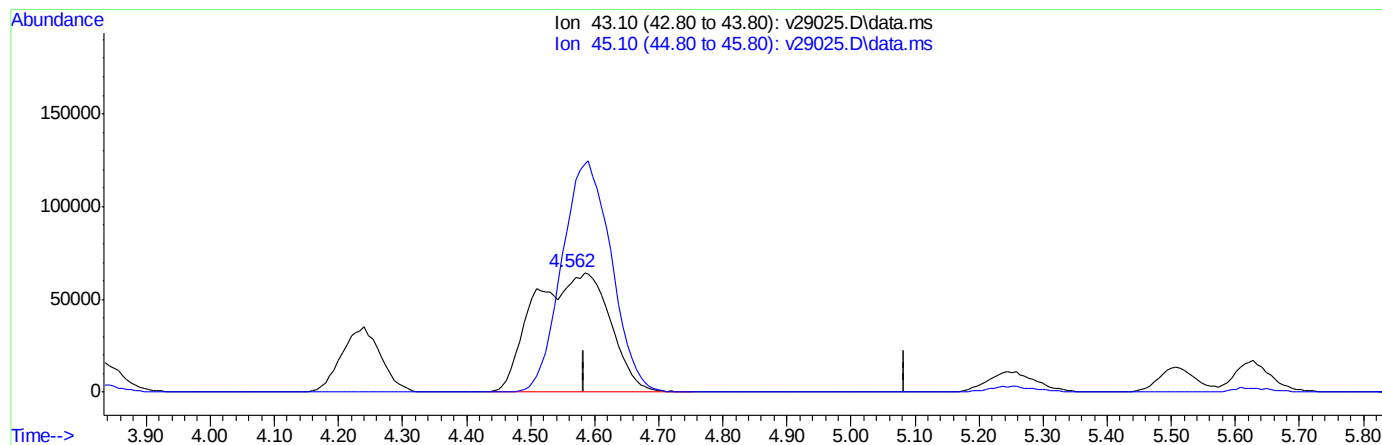
7.5.3

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29025.D
Acq On : 25 Mar 2014 9:38 am
Operator : amym
Sample : bfb
Misc : MS31383,MSV1088,,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 10:08:36 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (-0.020) 42.30ug/L m

response 533247

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
 Data File : v28203.D
 Acq On : 26 Feb 2014 2:42 pm
 Operator : amym
 Sample : ic1058-0.25
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 27 08:00:39 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	64815	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.572	168	424956	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.751	114	583644	50.00	ug/L	0.00
66) chlorobenzene-d5	11.087	82	286890	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.299	152	303870	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
60) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
Target Compounds						
51) trichloroethene	8.045	95	1234	0.26	ug/L	Qvalue 87
67) tetrachloroethene	10.188	166	1197	0.24	ug/L	# 73

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

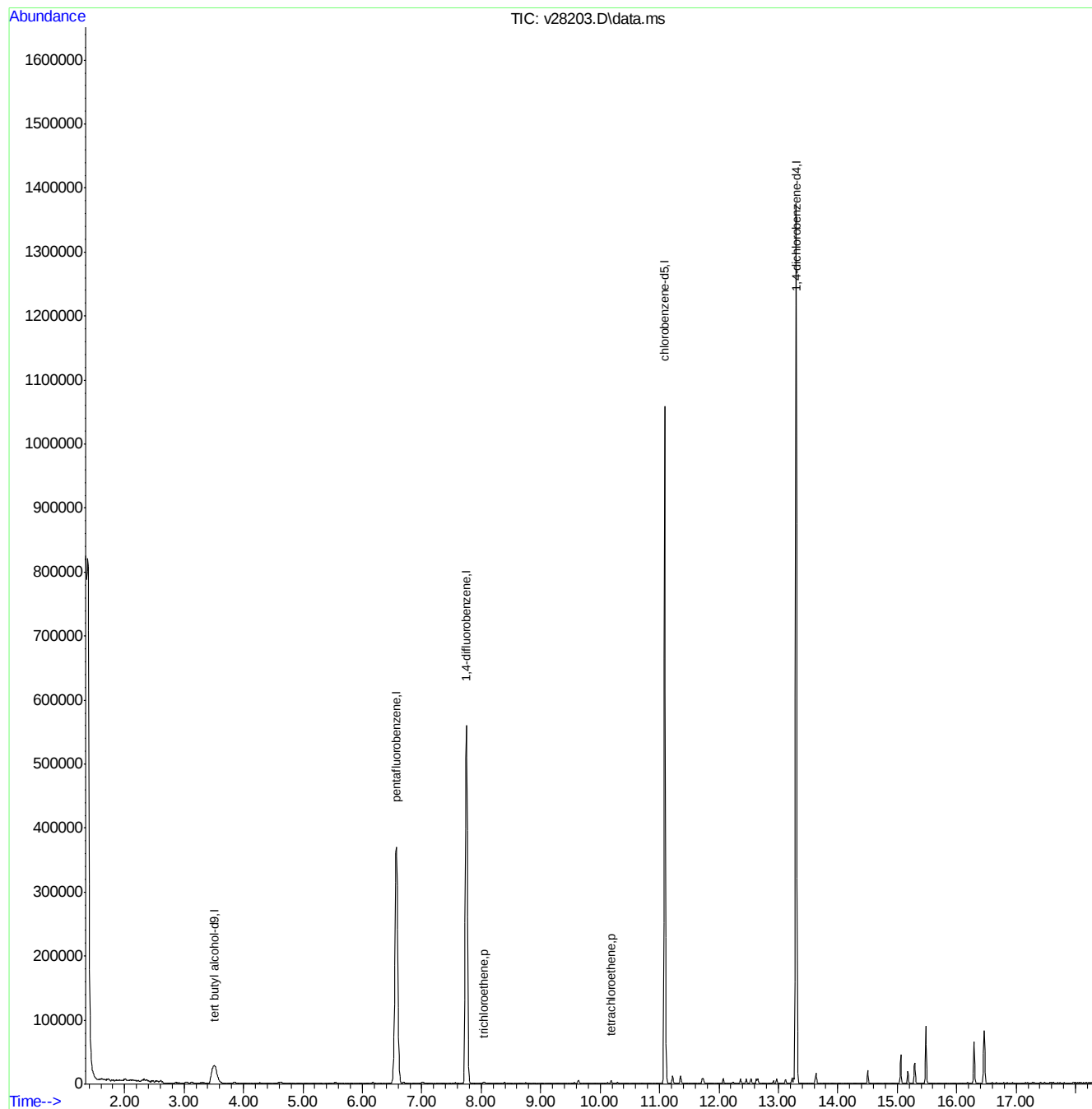
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28203.D
Acq On : 26 Feb 2014 2:42 pm
Operator : amym
Sample : ic1058-0.25
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 27 08:00:39 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28204.D
 Acq On : 26 Feb 2014 3:08 pm
 Operator : amym
 Sample : ic1058-0.5
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 27 08:02:01 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

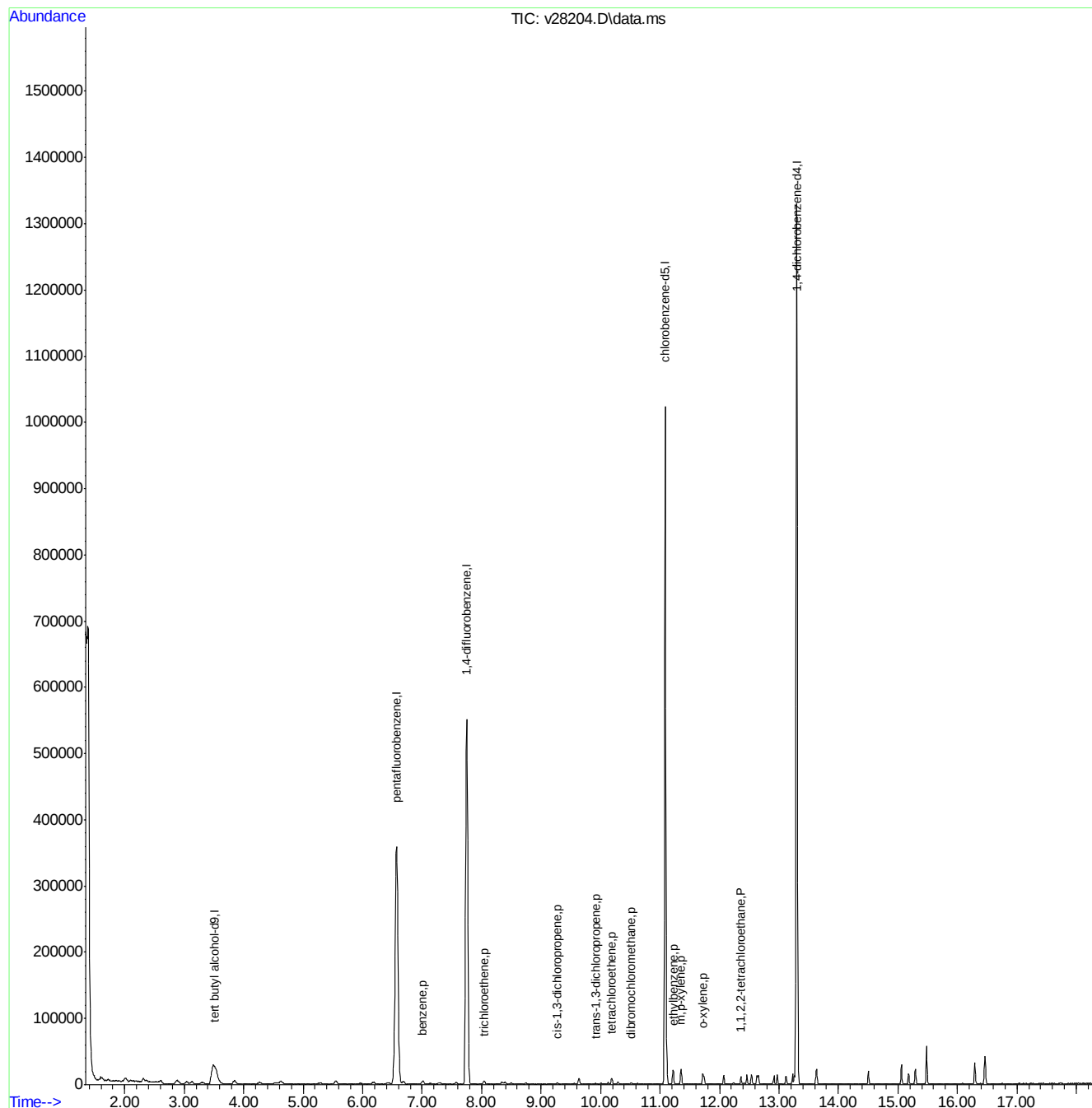
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	63696	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.571	168	409115	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.751	114	561114	50.00	ug/L	0.00
66) chlorobenzene-d5	11.087	82	274316	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.299	152	289237	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
Target Compounds						
47) benzene	7.011	78	7780	0.56	ug/L	93
51) trichloroethene	8.043	95	2671	0.58	ug/L	89
59) cis-1,3-dichloropropene	9.270	75	1481	0.30	ug/L	50
63) trans-1,3-dichloropropene	9.923	75	1017	0.29	ug/L	50
67) tetrachloroethene	10.190	166	2490	0.53	ug/L	90
69) dibromochloromethane	10.512	129	1469	0.40	ug/L	94
74) ethylbenzene	11.222	91	9929	0.50	ug/L	99
75) m,p-xylene	11.352	106	6682	0.92	ug/L	85
76) o-xylene	11.719	106	3542	0.47	ug/L	91
84) 1,1,2,2-tetrachloroethane	12.365	83	1420	0.52	ug/L	63

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28204.D
Acq On : 26 Feb 2014 3:08 pm
Operator : amym
Sample : ic1058-0.5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 27 08:02:01 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28205.D
 Acq On : 26 Feb 2014 3:34 pm
 Operator : amym
 Sample : ic1058-1
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 08:04:52 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	55446	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.571	168	397401	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.751	114	549258	50.00	ug/L	0.00
66) chlorobenzene-d5	11.087	82	261298	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.299	152	272100	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds				Qvalue		
5) dichlorodifluoromethane	1.519	85	8165m	0.67	ug/L	
6) chloromethane	1.607	50	7500	0.87	ug/L	87
7) vinyl chloride	1.719	62	6616	0.80	ug/L	73
8) bromomethane	2.011	96	5819	0.86	ug/L	82
9) chloroethane	2.118	64	4566	1.24	ug/L	91
10) ethyl ether	2.610	59	3236	1.18	ug/L	83
11) acetonitrile	3.306	41	7011	0.99	ug/L	82
12) trichlorofluoromethane	2.347	101	9467	0.69	ug/L	80
13) freon-113	2.900	101	6951	1.01	ug/L	84
15) 1,1-dichloroethene	2.872	96	5144	1.01	ug/L	92
18) methylene chloride	3.474	84	6126	1.24	ug/L	# 80
19) methyl tert butyl ether	3.844	73	8859	0.96	ug/L	94
21) allyl chloride	3.306	41	7011	0.99	ug/L	92
22) trans-1,2-dichloroethene	3.849	96	5624	1.12	ug/L	82
23) iodomethane	3.041	142	14280	1.12	ug/L	83
24) carbon disulfide	3.125	76	18162	1.05	ug/L	100
27) chloroprene	4.633	53	6633	0.98	ug/L	94
28) di-isopropyl ether	4.618	45	13345	0.99	ug/L	83
31) Hexane	4.262	41	4700	1.06	ug/L	# 68
32) 1,1-dichloroethane	4.523	63	9860	1.14	ug/L	95
33) tert-butyl ethyl ether	5.283	59	9467	0.95	ug/L	96
34) isobutyl alcohol	4.593	43	11115	4.85	ug/L	45
35) 2,2-dichloropropane	5.553	77	4657	0.71	ug/L	89
36) cis-1,2-dichloroethene	5.545	96	4997	1.05	ug/L	# 81
38) bromochloromethane	5.966	128	2379	1.05	ug/L	97
39) chloroform	6.181	83	11024	1.15	ug/L	97
42) 1,1,1-trichloroethane	6.424	97	9362	0.93	ug/L	85
45) carbon tetrachloride	6.678	117	7723	0.80	ug/L	94
46) 1,1-dichloropropene	6.694	75	5983	1.02	ug/L	88
47) benzene	7.012	78	16271	1.19	ug/L	99
48) 1,2-dichloroethane	7.137	62	6725	1.16	ug/L	79
49) tert-amyl methyl ether	7.300	73	5792	0.88	ug/L	89
50) heptane	7.567	43	4003	1.01	ug/L	81
51) trichloroethene	8.044	95	4996	1.10	ug/L	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28205.D
 Acq On : 26 Feb 2014 3:34 pm
 Operator : amym
 Sample : ic1058-1
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 08:04:52 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

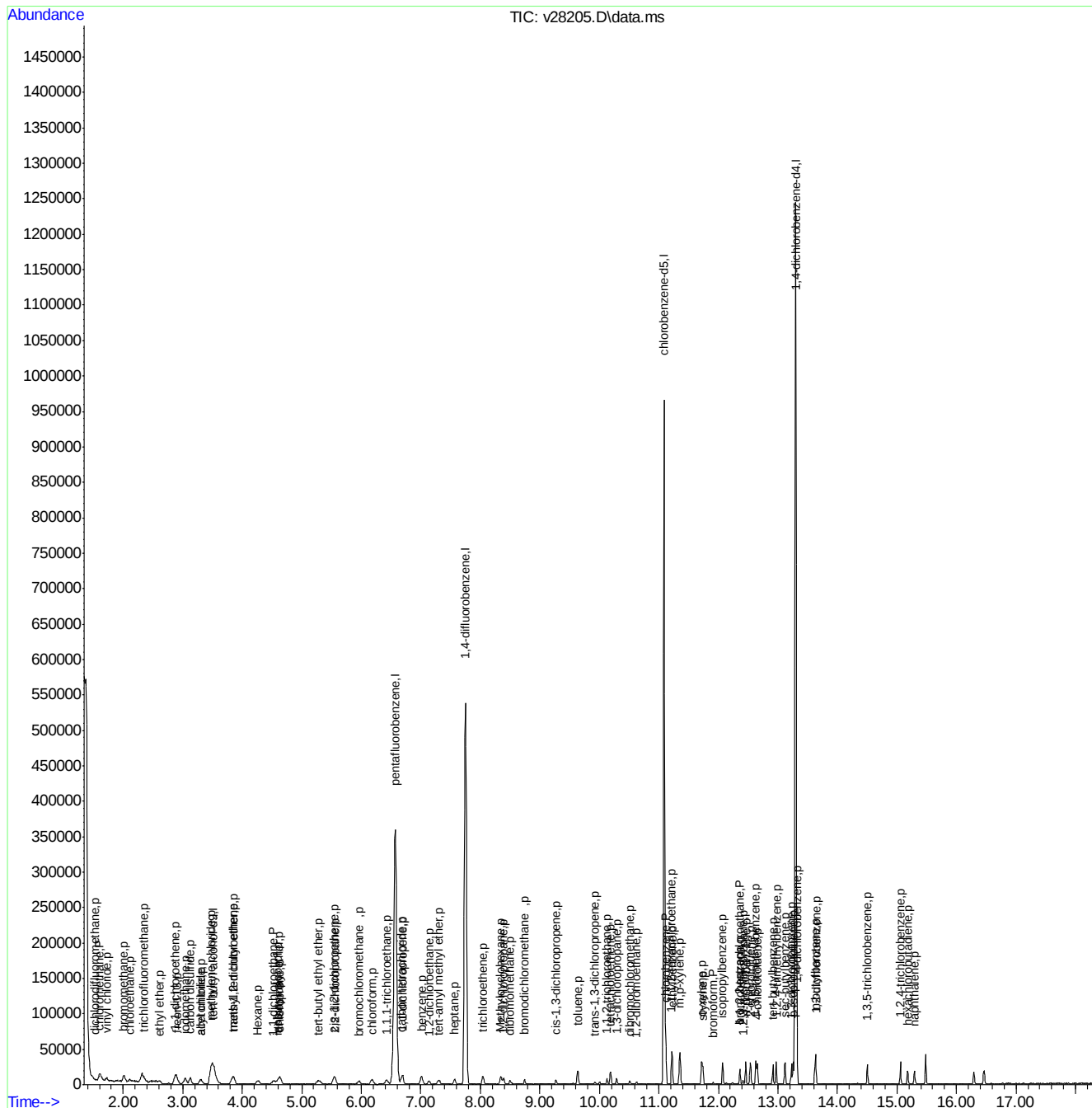
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 1,2-dichloropropane	8.392	63	3330	0.96	ug/L	89
53) dibromomethane	8.495	93	2095	0.97	ug/L	90
54) bromodichloromethane	8.744	83	5516	0.99	ug/L	85
55) Methylcyclohexane	8.345	83	5341	0.87	ug/L	94
59) cis-1,3-dichloropropene	9.272	75	3939	0.82	ug/L	87
62) toluene	9.637	92	8417	0.95	ug/L	96
63) trans-1,3-dichloropropene	9.923	75	2241	0.65	ug/L	50
64) 1,1,2-trichloroethane	10.128	83	1716	0.87	ug/L #	67
67) tetrachloroethene	10.189	166	4778	1.06	ug/L	90
68) 1,3-dichloropropane	10.290	76	4186	1.12	ug/L	99
69) dibromochloromethane	10.511	129	2772	0.79	ug/L	99
70) 1,2-dibromoethane	10.622	107	2188	0.93	ug/L	93
72) chlorobenzene	11.116	112	12118	1.12	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.215	131	4252	0.91	ug/L	87
74) ethylbenzene	11.221	91	20032	1.06	ug/L	91
75) m,p-xylene	11.352	106	14257	2.07	ug/L	87
76) o-xylene	11.720	106	6729	0.94	ug/L	81
77) styrene	11.740	104	9200	0.87	ug/L	91
78) bromoform	11.913	173	1365	0.80	ug/L	90
81) isopropylbenzene	12.071	105	18996	0.89	ug/L	93
83) bromobenzene	12.361	156	4659	1.02	ug/L	89
84) 1,1,2,2-tetrachloroethane	12.364	83	2691	1.05	ug/L	94
85) 1,2,3-trichloropropane	12.414	75	2648	1.04	ug/L	96
86) n-propylbenzene	12.459	91	21967	0.92	ug/L	95
87) 2-chlorotoluene	12.538	91	15973	1.06	ug/L	95
88) 4-chlorotoluene	12.650	91	16905	1.02	ug/L	91
89) 1,3,5-trimethylbenzene	12.628	105	15568	0.86	ug/L	93
90) tert-butylbenzene	12.914	91	9044	0.85	ug/L	89
91) 1,2,4-trimethylbenzene	12.969	105	16161	0.89	ug/L	98
92) sec-butylbenzene	13.117	105	17748	0.83	ug/L	98
93) 1,3-dichlorobenzene	13.226	146	10816	1.14	ug/L	98
94) p-isopropyltoluene	13.258	119	16163	0.86	ug/L	98
95) 1,4-dichlorobenzene	13.321	146	11079	1.24	ug/L	99
96) 1,2-dichlorobenzene	13.638	146	10993	1.24	ug/L	98
97) n-butylbenzene	13.623	91	15404	0.95	ug/L	94
99) 1,3,5-trichlorobenzene	14.504	180	7998	1.21	ug/L	87
100) 1,2,4-trichlorobenzene	15.060	180	8324	1.64	ug/L	98
101) hexachlorobutadiene	15.182	225	3281	1.42	ug/L	95
102) naphthalene	15.294	128	12101	1.87	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28205.D
Acq On : 26 Feb 2014 3:34 pm
Operator : amym
Sample : ic1058-1
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 08:04:52 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 09:54:40 2014

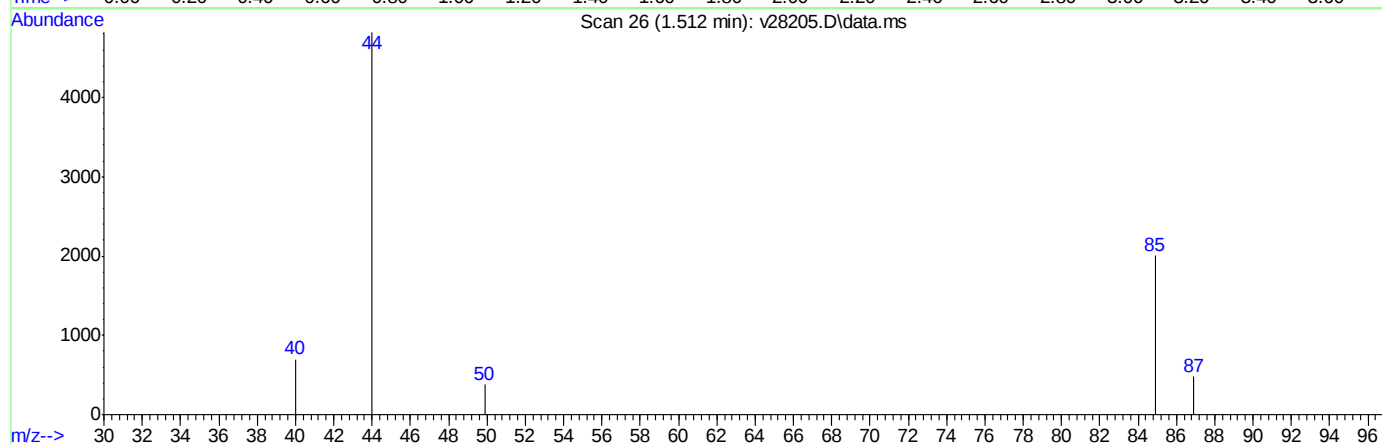
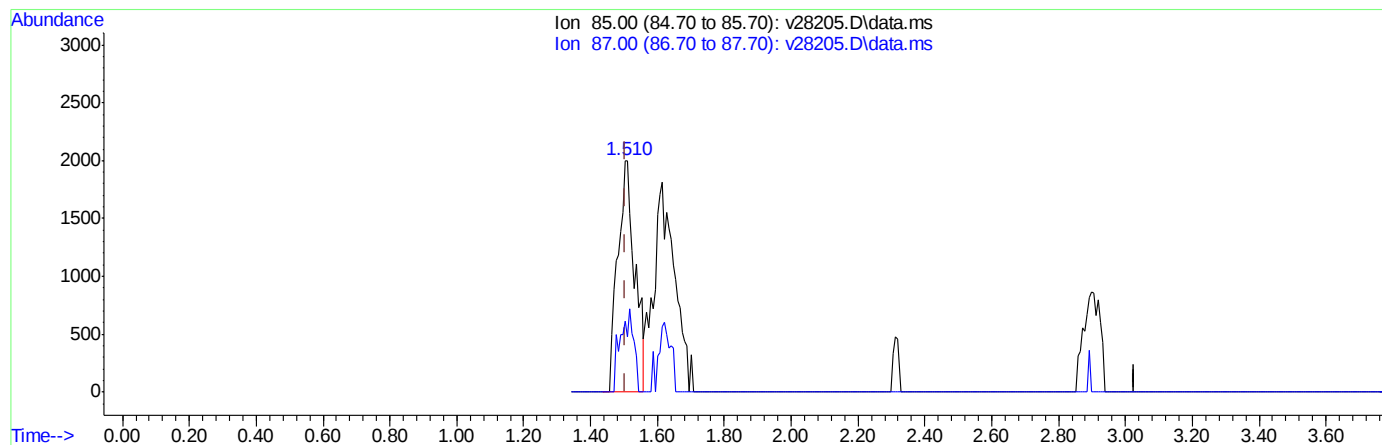
Page: 3

7.6.3

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28205.D
Acq On : 26 Feb 2014 3:34 pm
Operator : amym
Sample : ic1058-1
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 07:59:28 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.510min (+0.004) 0.58ug/L

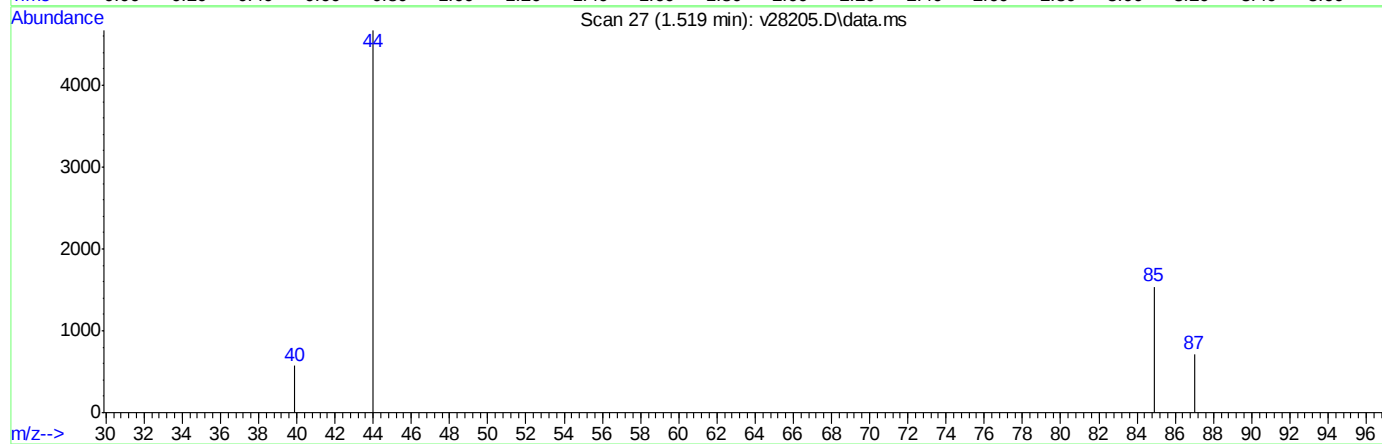
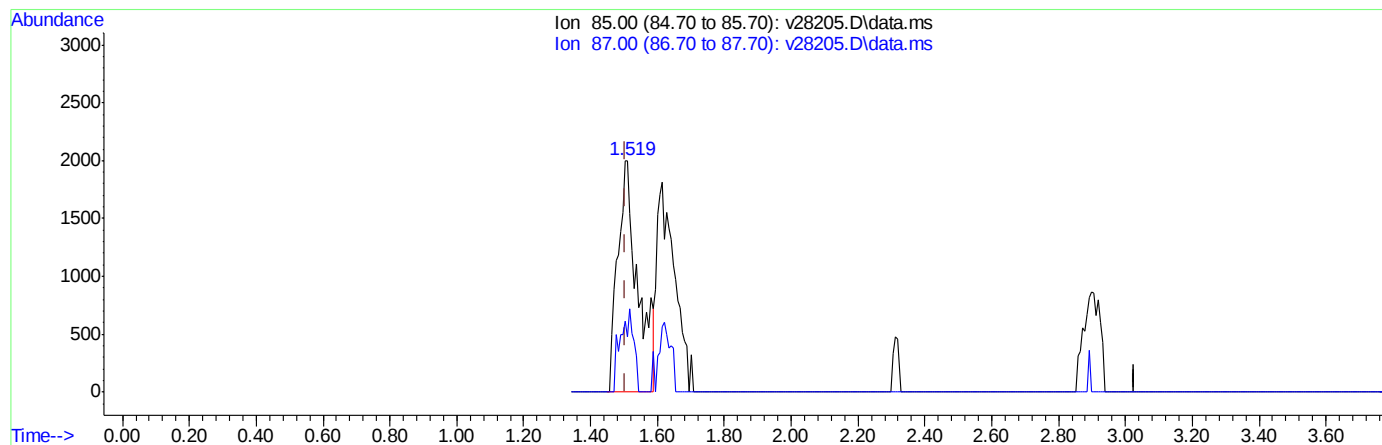
response 7040

Ion	Exp%	Act%
85.00	100	100
87.00	31.90	23.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28205.D
Acq On : 26 Feb 2014 3:34 pm
Operator : amym
Sample : ic1058-1
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 27 07:59:28 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.519min (+0.013) 0.67ug/L m

response 8165

Ion	Exp%	Act%
85.00	100	100
87.00	31.90	46.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28206.D
 Acq On : 26 Feb 2014 4:01 pm
 Operator : amym
 Sample : ic1058-2
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 08:06:36 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	51532	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.570	168	391195	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.749	114	532779	50.00	ug/L	0.00
66) chlorobenzene-d5	11.087	82	260985	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.299	152	268544	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.447	113	10527	1.97	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	3.94%#		
60) toluene-d8 (s)	9.560	98	25077	1.89	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	3.78%#		
82) bromofluorobenzene (s)	12.236	95	11103	2.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	4.18%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.616	59	2177	17.50	ug/L	# 53
3) Ethanol	2.497	45	5560	277.34	ug/L	# 100
5) dichlorodifluoromethane	1.511	85	20918	1.75	ug/L	98
6) chloromethane	1.608	50	15449	1.81	ug/L	97
7) vinyl chloride	1.718	62	13691	1.69	ug/L	78
8) bromomethane	2.014	96	12852	1.93	ug/L	98
9) chloroethane	2.111	64	7663	2.12	ug/L	82
10) ethyl ether	2.609	59	5564	2.06	ug/L	98
11) acetonitrile	3.300	41	12876	1.85	ug/L	83
12) trichlorofluoromethane	2.343	101	23079	1.70	ug/L	88
13) freon-113	2.898	101	10805	1.60	ug/L	95
15) 1,1-dichloroethene	2.871	96	9809	1.96	ug/L	90
18) methylene chloride	3.470	84	9961	2.04	ug/L	# 61
19) methyl tert butyl ether	3.842	73	16889	1.86	ug/L	98
20) acrylonitrile	3.784	53	1047	1.22	ug/L	76
21) allyl chloride	3.300	41	12876	1.85	ug/L	78
22) trans-1,2-dichloroethene	3.842	96	10784	2.19	ug/L	81
23) iodomethane	3.037	142	27232	2.18	ug/L	86
24) carbon disulfide	3.122	76	33802	1.99	ug/L	97
26) vinyl acetate	4.591	43	21916	1.94	ug/L	84
27) chloroprene	4.630	53	11640	1.75	ug/L	78
28) di-isopropyl ether	4.616	45	25091	1.89	ug/L	92
29) methacrylonitrile	5.920	41	2138	1.52	ug/L	# 66
31) Hexane	4.260	41	7107	1.63	ug/L	# 61
32) 1,1-dichloroethane	4.518	63	17760	2.08	ug/L	86
33) tert-butyl ethyl ether	5.282	59	17286	1.76	ug/L	85
34) isobutyl alcohol	4.591	43	21915	9.71	ug/L	62
35) 2,2-dichloropropane	5.553	77	10531	1.64	ug/L	90
36) cis-1,2-dichloroethene	5.541	96	9694	2.06	ug/L	82
38) bromochloromethane	5.962	128	4626	2.08	ug/L	87
39) chloroform	6.178	83	20134	2.14	ug/L	95
42) 1,1,1-trichloroethane	6.424	97	16815	1.70	ug/L	86
44) Cyclohexane	6.546	56	16387	2.48	ug/L	# 55
45) carbon tetrachloride	6.678	117	15029	1.61	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28206.D
 Acq On : 26 Feb 2014 4:01 pm
 Operator : amym
 Sample : ic1058-2
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 08:06:36 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1-dichloropropene	6.692	75	11380	2.00	ug/L	87
47) benzene	7.011	78	29059	2.19	ug/L	98
48) 1,2-dichloroethane	7.135	62	11900	2.11	ug/L	79
49) tert-amyl methyl ether	7.298	73	10797	1.68	ug/L	88
50) heptane	7.571	43	6104	1.58	ug/L	80
51) trichloroethene	8.041	95	9672	2.20	ug/L	82
52) 1,2-dichloropropane	8.390	63	6319	1.88	ug/L	89
53) dibromomethane	8.494	93	4226	2.02	ug/L	86
54) bromodichloromethane	8.744	83	10248	1.89	ug/L	95
55) Methylcyclohexane	8.344	83	8132	1.37	ug/L #	92
57) methyl methacrylate	8.525	69	1579	1.44	ug/L #	57
59) cis-1,3-dichloropropene	9.270	75	6893	1.48	ug/L	99
61) 4-methyl-2-pentanone	9.455	43	2893	1.69	ug/L #	41
62) toluene	9.636	92	16087	1.87	ug/L	91
63) trans-1,3-dichloropropene	9.923	75	4263	1.27	ug/L	96
64) 1,1,2-trichloroethane	10.128	83	3917	2.04	ug/L	89
65) ethyl methacrylate	10.004	69	3275	1.28	ug/L #	66
67) tetrachloroethene	10.188	166	8566	1.91	ug/L	98
68) 1,3-dichloropropane	10.290	76	7491	2.01	ug/L	87
69) dibromochloromethane	10.511	129	5747	1.64	ug/L	87
70) 1,2-dibromoethane	10.620	107	4087	1.75	ug/L	93
71) 2-hexanone	10.362	43	2767	2.41	ug/L #	21
72) chlorobenzene	11.116	112	23464	2.17	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.215	131	7992	1.71	ug/L	94
74) ethylbenzene	11.221	91	38501	2.03	ug/L	97
75) m,p-xylene	11.353	106	27031	3.93	ug/L	81
76) o-xylene	11.719	106	12976	1.82	ug/L #	78
77) styrene	11.740	104	19369	1.84	ug/L	88
78) bromoform	11.913	173	2438	1.42	ug/L	99
81) isopropylbenzene	12.071	105	35694	1.69	ug/L	97
83) bromobenzene	12.362	156	8847	1.96	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.365	83	4904	1.94	ug/L	90
85) 1,2,3-trichloropropane	12.412	75	4461m	1.78	ug/L	
86) n-propylbenzene	12.460	91	42792	1.82	ug/L	93
87) 2-chlorotoluene	12.538	91	29385	1.98	ug/L	97
88) 4-chlorotoluene	12.650	91	33470	2.05	ug/L	90
89) 1,3,5-trimethylbenzene	12.629	105	30853	1.73	ug/L	95
90) tert-butylbenzene	12.914	91	17306	1.64	ug/L	93
91) 1,2,4-trimethylbenzene	12.969	105	31881	1.79	ug/L	94
92) sec-butylbenzene	13.117	105	34512	1.64	ug/L	98
93) 1,3-dichlorobenzene	13.226	146	19434	2.08	ug/L	99
94) p-isopropyltoluene	13.259	119	31361	1.69	ug/L	97
95) 1,4-dichlorobenzene	13.321	146	19923	2.27	ug/L	97
96) 1,2-dichlorobenzene	13.638	146	18229	2.09	ug/L	94
97) n-butylbenzene	13.623	91	28277	1.76	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.338	75	564m	1.50	ug/L	
99) 1,3,5-trichlorobenzene	14.504	180	15010	2.30	ug/L	98
100) 1,2,4-trichlorobenzene	15.059	180	12109	2.41	ug/L	94
101) hexachlorobutadiene	15.180	225	5359	2.35	ug/L	96
102) naphthalene	15.294	128	14742	2.31	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28206.D
Acq On : 26 Feb 2014 4:01 pm
Operator : amym
Sample : ic1058-2
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 08:06:36 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration

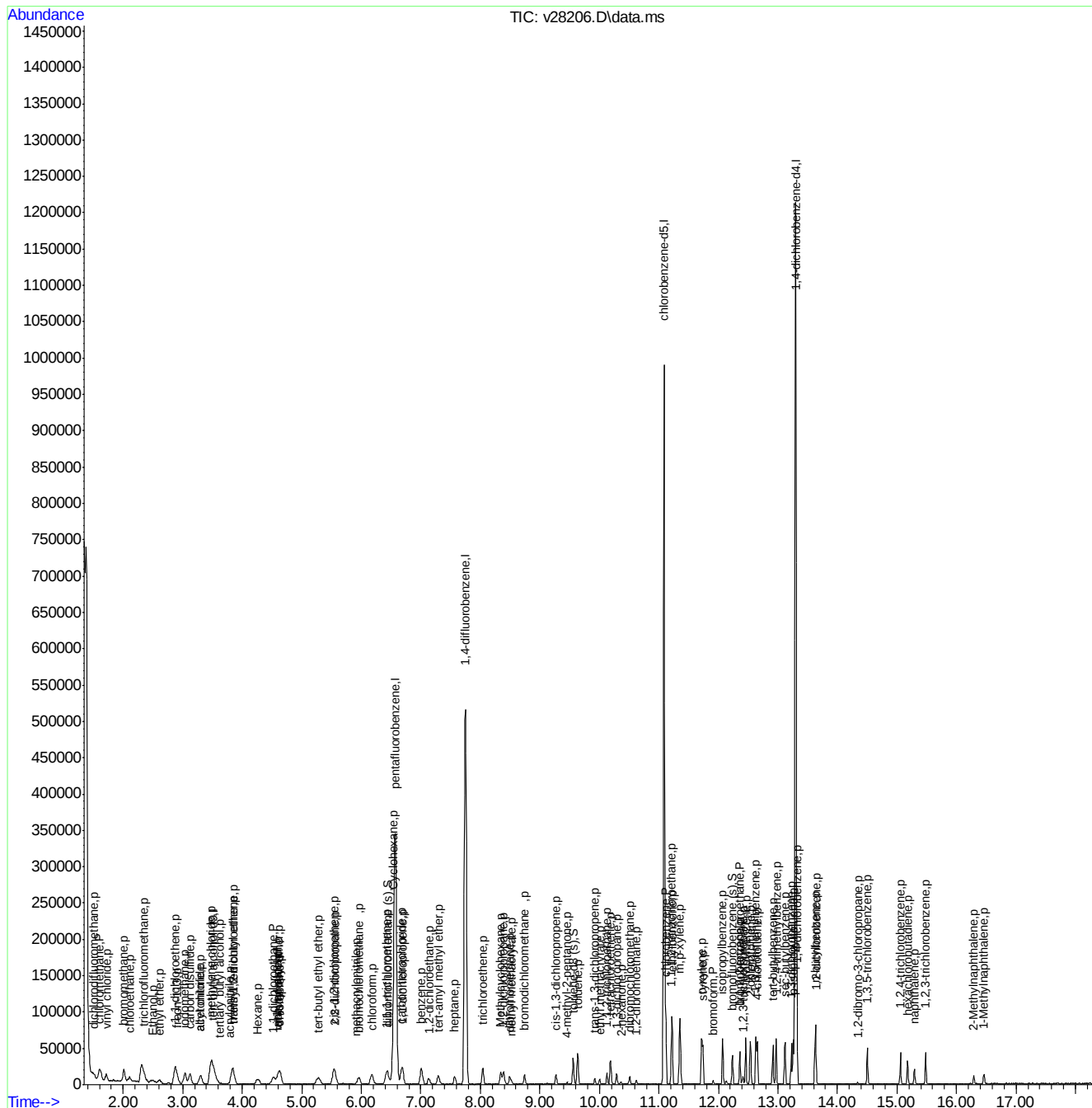
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) 1,2,3-trichlorobenzene	15.482	180	12382	3.52	ug/L	92
104) 2-Methylnaphthalene	16.292	142	6367	4.40	ug/L	98
105) 1-Methylnaphthalene	16.463	142	7291	6.10	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28206.D
Acq On : 26 Feb 2014 4:01 pm
Operator : amym
Sample : ic1058-2
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 08:06:36 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 09:54:47 2014

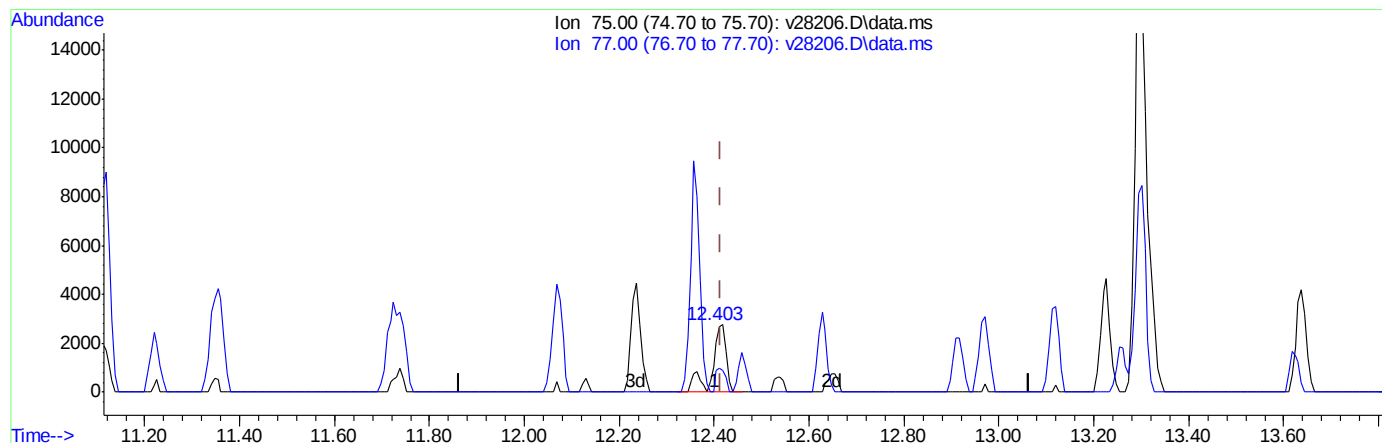
Page: 4

7.6.4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28206.D
Acq On : 26 Feb 2014 4:01 pm
Operator : amym
Sample : ic1058-2
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 07:59:31 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.403min (-0.011) 2.24ug/L

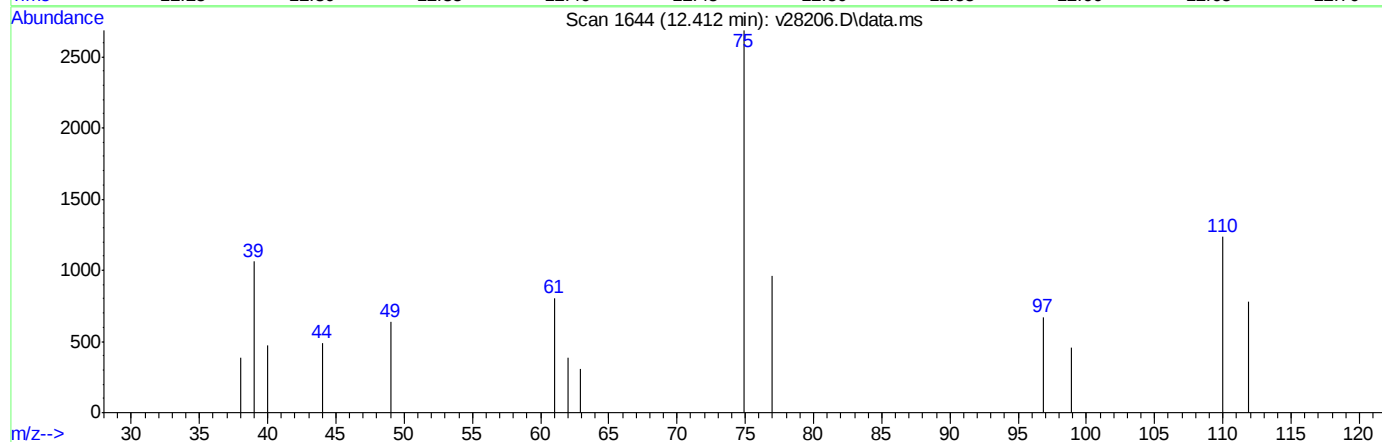
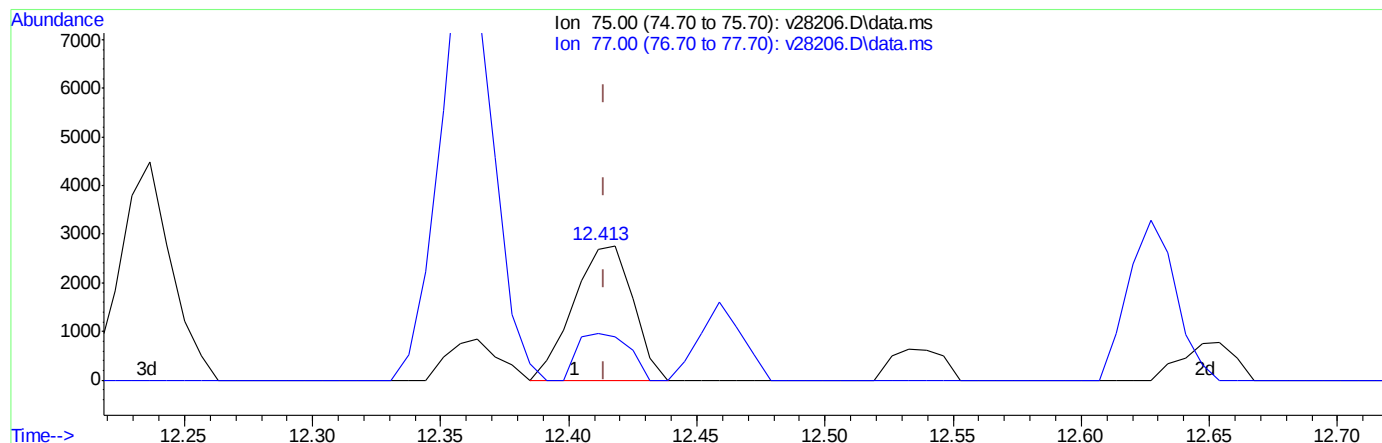
response 5612

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	43.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28206.D
Acq On : 26 Feb 2014 4:01 pm
Operator : amym
Sample : ic1058-2
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 07:59:31 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



TIC: v28206.D\data.ms

(85) 1,2,3-trichloropropane (p)

12.412min (-0.002) 1.78ug/L m

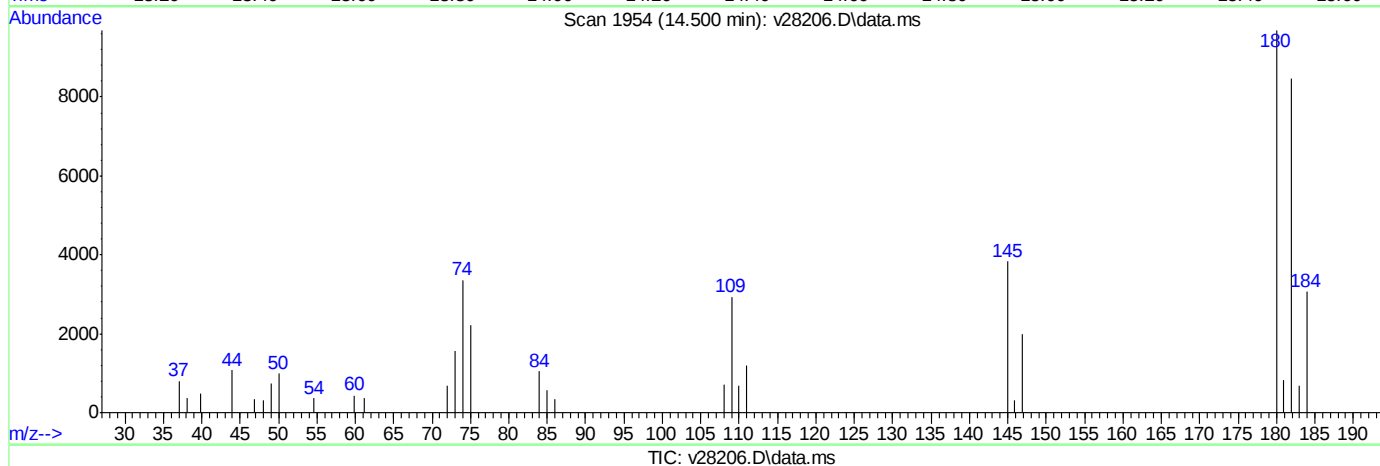
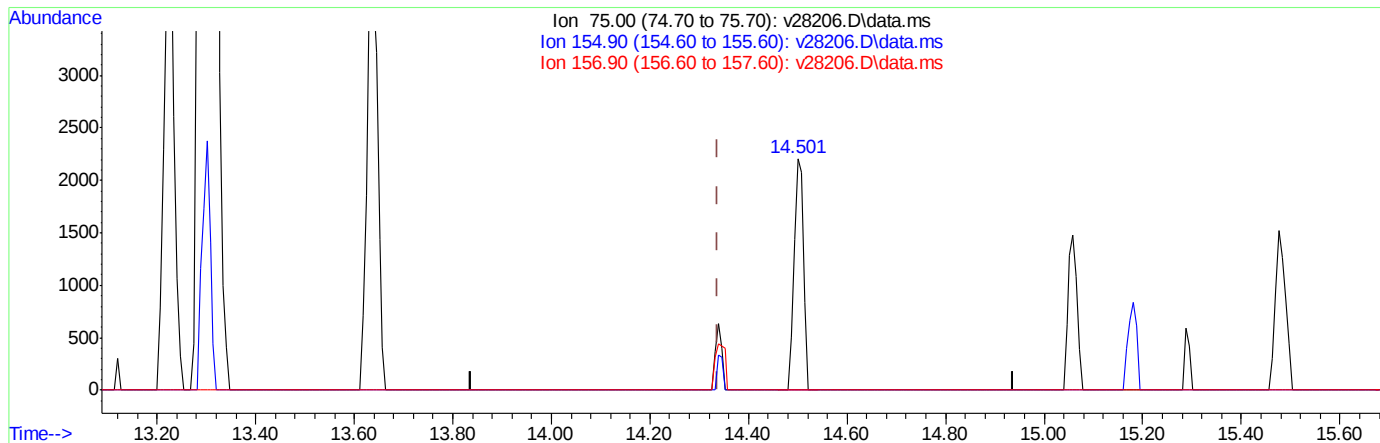
response 4461

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	35.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28206.D
Acq On : 26 Feb 2014 4:01 pm
Operator : amym
Sample : ic1058-2
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 07:59:31 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.501min (+0.163) 7.61ug/L

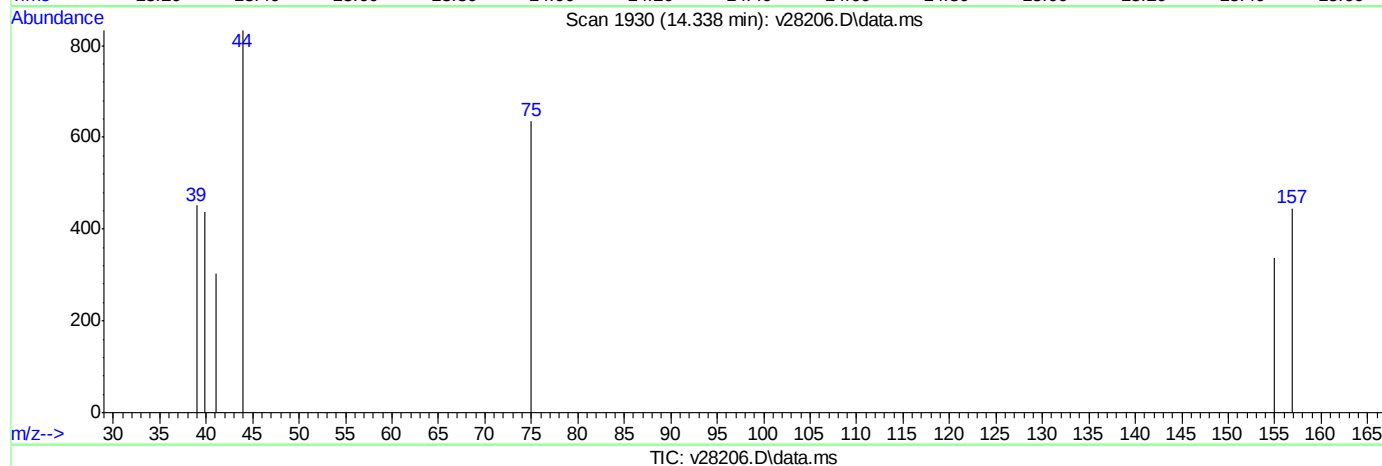
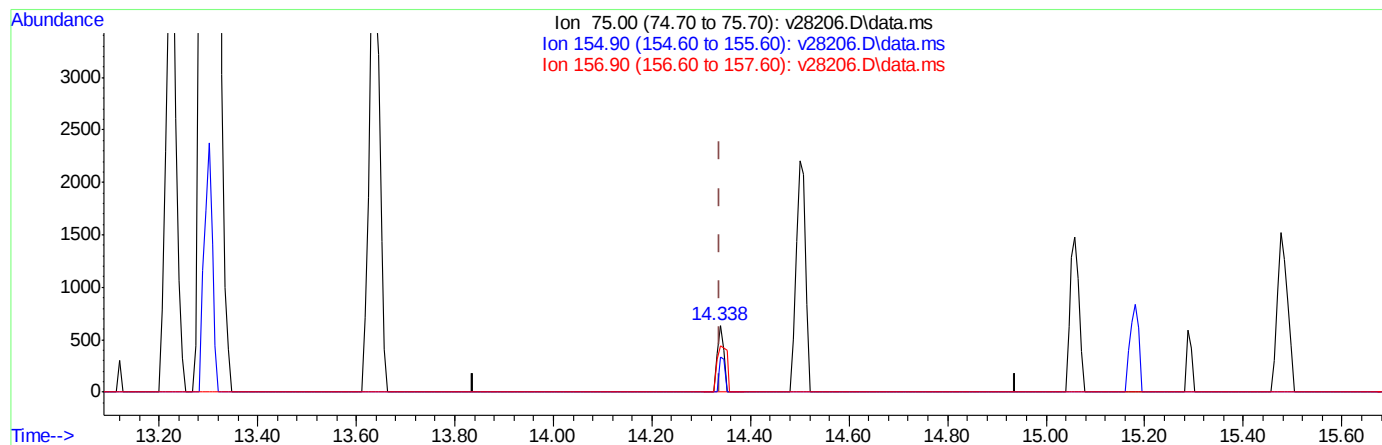
response 2857

Ion	Exp%	Act%
75.00	100	100
154.90	95.90	0.00#
156.90	122.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28206.D
Acq On : 26 Feb 2014 4:01 pm
Operator : amym
Sample : ic1058-2
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 27 07:59:31 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.338min (+0.000) 1.50ug/L m

response 564

Ion	Exp%	Act%
75.00	100	100
154.90	95.90	52.99#
156.90	122.80	69.97#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28207.D
 Acq On : 26 Feb 2014 4:27 pm
 Operator : amym
 Sample : ic1058-5
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 08:08:25 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	54861	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.569	168	372554	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.749	114	514692	50.00	ug/L	0.00
66) chlorobenzene-d5	11.086	82	255093	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.298	152	270975	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.447	113	25508	5.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	10.04%#		
60) toluene-d8 (s)	9.560	98	61442	4.79	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.58%#		
82) bromofluorobenzene (s)	12.235	95	27050	5.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	10.08%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.619	59	6886	52.01	ug/L	93
3) Ethanol	2.499	45	13037	610.84	ug/L	# 100
5) dichlorodifluoromethane	1.506	85	44381	3.90	ug/L	89
6) chloromethane	1.610	50	39317	4.85	ug/L	98
7) vinyl chloride	1.718	62	35191	4.55	ug/L	90
8) bromomethane	2.013	96	32222	5.08	ug/L	97
9) chloroethane	2.108	64	18525	5.37	ug/L	90
10) ethyl ether	2.608	59	13836	5.38	ug/L	82
11) acetonitrile	3.298	41	30206	4.56	ug/L	69
12) trichlorofluoromethane	2.343	101	53947	4.17	ug/L	99
13) freon-113	2.898	101	26286	4.09	ug/L	96
14) acrolein	2.758	56	5557	23.38	ug/L	94
15) 1,1-dichloroethene	2.870	96	23429	4.90	ug/L	79
16) acetone	2.906	58	1619m	5.90	ug/L	
17) Methyl Acetate	3.283	43	7840	5.05	ug/L	# 80
18) methylene chloride	3.469	84	25358	5.47	ug/L	85
19) methyl tert butyl ether	3.841	73	42350	4.89	ug/L	91
20) acrylonitrile	3.775	53	3856	4.73	ug/L	71
21) allyl chloride	3.298	41	30206	4.56	ug/L	90
22) trans-1,2-dichloroethene	3.842	96	25189	5.36	ug/L	98
23) iodomethane	3.037	142	62261	5.23	ug/L	90
24) carbon disulfide	3.122	76	78970	4.89	ug/L	97
25) propionitrile	5.628	54	293m	1.25	ug/L	
26) vinyl acetate	4.589	43	52669	4.90	ug/L	84
27) chloroprene	4.630	53	28358	4.47	ug/L	80
28) di-isopropyl ether	4.614	45	62680	4.95	ug/L	92
29) methacrylonitrile	5.927	41	6709	5.00	ug/L	87
30) 2-butanone	5.534	72	946m	3.75	ug/L	
31) Hexane	4.261	41	15546	3.74	ug/L	# 66
32) 1,1-dichloroethane	4.518	63	41993	5.17	ug/L	99
33) tert-butyl ethyl ether	5.280	59	43170	4.61	ug/L	92
34) isobutyl alcohol	4.589	43	52669	24.50	ug/L	64
35) 2,2-dichloropropane	5.553	77	25154	4.11	ug/L	89
36) cis-1,2-dichloroethene	5.540	96	23071	5.15	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28207.D
 Acq On : 26 Feb 2014 4:27 pm
 Operator : amym
 Sample : ic1058-5
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 08:08:25 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.591	43	52672m	4.90	ug/L	
38) bromochloromethane	5.959	128	10723	5.07	ug/L	84
39) chloroform	6.177	83	46727	5.21	ug/L	98
41) Tetrahydrofuran	5.964	42	1758	3.86	ug/L #	53
42) 1,1,1-trichloroethane	6.422	97	40471	4.30	ug/L	94
44) Cyclohexane	6.539	56	30102	4.72	ug/L #	85
45) carbon tetrachloride	6.678	117	35929	3.99	ug/L	98
46) 1,1-dichloropropene	6.690	75	25978	4.73	ug/L	94
47) benzene	7.010	78	67557	5.27	ug/L	100
48) 1,2-dichloroethane	7.134	62	28442	5.21	ug/L	96
49) tert-amyl methyl ether	7.297	73	28335	4.57	ug/L	98
50) heptane	7.567	43	13580	3.64	ug/L	83
51) trichloroethene	8.041	95	21161	4.97	ug/L	94
52) 1,2-dichloropropane	8.390	63	15959	4.92	ug/L	97
53) dibromomethane	8.493	93	10247	5.06	ug/L	85
54) bromodichloromethane	8.744	83	25008	4.78	ug/L	93
55) Methylcyclohexane	8.344	83	18948	3.31	ug/L	96
56) 2-chloroethyl vinyl ether	9.120	63	1976	3.54	ug/L	75
57) methyl methacrylate	8.523	69	4292	4.05	ug/L #	64
58) 1,4-dioxane	8.511	88	148m	9.90	ug/L	
59) cis-1,3-dichloropropene	9.271	75	19083	4.23	ug/L	92
61) 4-methyl-2-pentanone	9.455	43	7123	4.30	ug/L #	78
62) toluene	9.635	92	41880	5.04	ug/L	97
63) trans-1,3-dichloropropene	9.923	75	11643	3.58	ug/L	92
64) 1,1,2-trichloroethane	10.128	83	9282	5.01	ug/L	97
65) ethyl methacrylate	10.004	69	9797	3.95	ug/L	93
67) tetrachloroethene	10.188	166	20808	4.74	ug/L	97
68) 1,3-dichloropropane	10.290	76	18241	5.02	ug/L	92
69) dibromochloromethane	10.510	129	14365	4.20	ug/L	99
70) 1,2-dibromoethane	10.620	107	11397	4.98	ug/L	97
71) 2-hexanone	10.364	43	5946	5.30	ug/L	79
72) chlorobenzene	11.116	112	54360	5.14	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.214	131	20560	4.51	ug/L	91
74) ethylbenzene	11.220	91	91071	4.92	ug/L	93
75) m,p-xylene	11.351	106	64836	9.64	ug/L	89
76) o-xylene	11.718	106	32513	4.67	ug/L #	73
77) styrene	11.739	104	50102	4.87	ug/L	89
78) bromoform	11.913	173	7080	4.23	ug/L	94
79) trans-1,4-dichloro-2-b...	12.129	53	2800m	4.17	ug/L	
81) isopropylbenzene	12.070	105	88837	4.18	ug/L	94
83) bromobenzene	12.360	156	22203	4.87	ug/L	89
84) 1,1,2,2-tetrachloroethane	12.364	83	12424	4.88	ug/L	93
85) 1,2,3-trichloropropane	12.405	75	14784	5.85	ug/L	99
86) n-propylbenzene	12.459	91	105514	4.45	ug/L	98
87) 2-chlorotoluene	12.538	91	73189	4.90	ug/L	98
88) 4-chlorotoluene	12.649	91	83271	5.05	ug/L	91
89) 1,3,5-trimethylbenzene	12.628	105	79392	4.41	ug/L	98
90) tert-butylbenzene	12.913	91	41996	3.94	ug/L	98
91) 1,2,4-trimethylbenzene	12.968	105	82649	4.59	ug/L	92
92) sec-butylbenzene	13.117	105	85099	4.00	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 08:08:25 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration

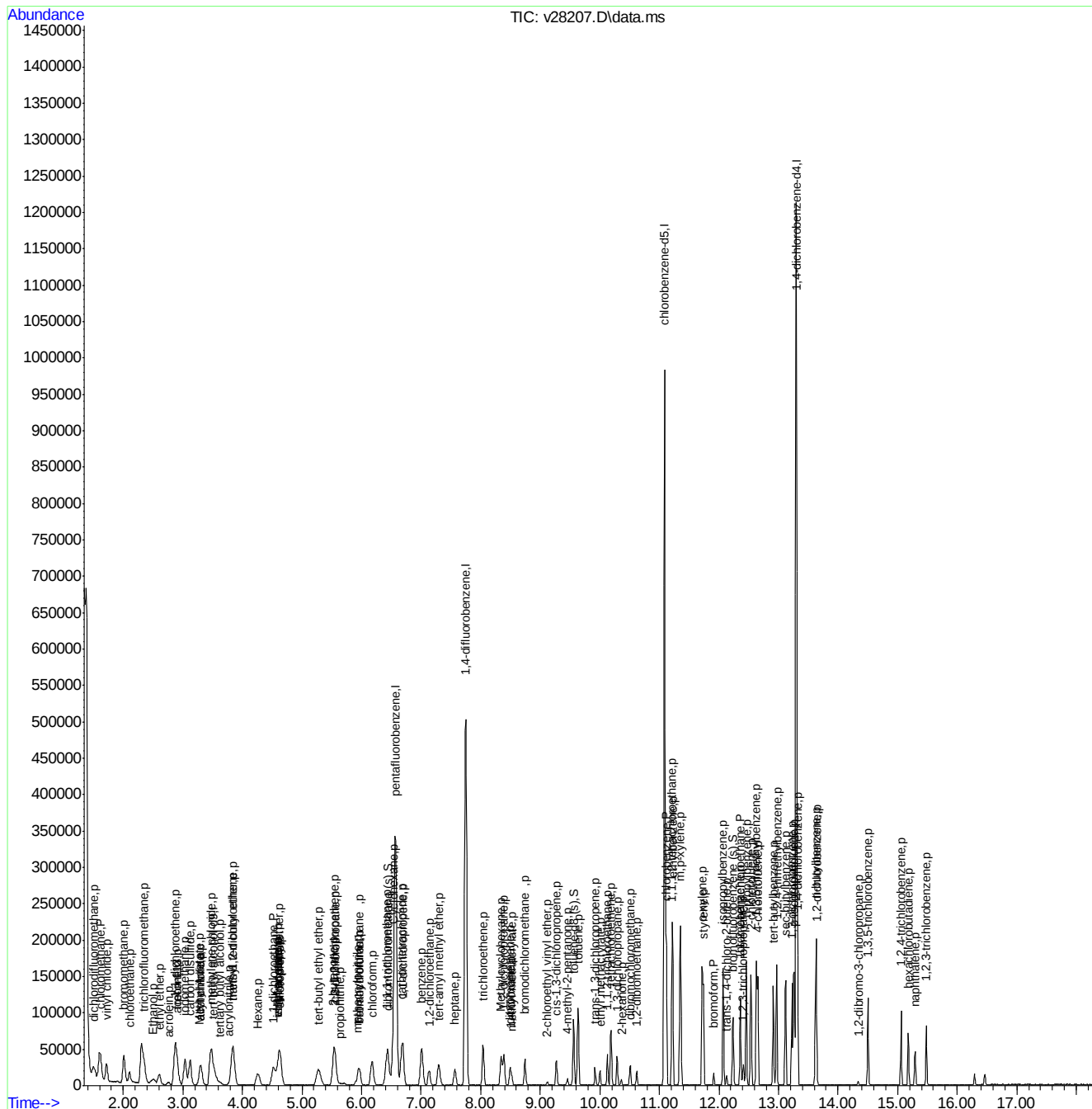
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.225	146	48443	5.13	ug/L	98
94) p-isopropyltoluene	13.258	119	78205	4.18	ug/L	98
95) 1,4-dichlorobenzene	13.320	146	47577	5.37	ug/L	98
96) 1,2-dichlorobenzene	13.637	146	45175	5.13	ug/L	99
97) n-butylbenzene	13.623	91	66508	4.10	ug/L	92
98) 1,2-dibromo-3-chloropr...	14.338	75	1551	4.09	ug/L	88
99) 1,3,5-trichlorobenzene	14.504	180	33249	5.04	ug/L	98
100) 1,2,4-trichlorobenzene	15.059	180	26245	5.18	ug/L	99
101) hexachlorobutadiene	15.180	225	11411	4.95	ug/L	84
102) naphthalene	15.293	128	31241	4.86	ug/L	100
103) 1,2,3-trichlorobenzene	15.482	180	21570	6.07	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 08:08:25 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 09:54:53 2014

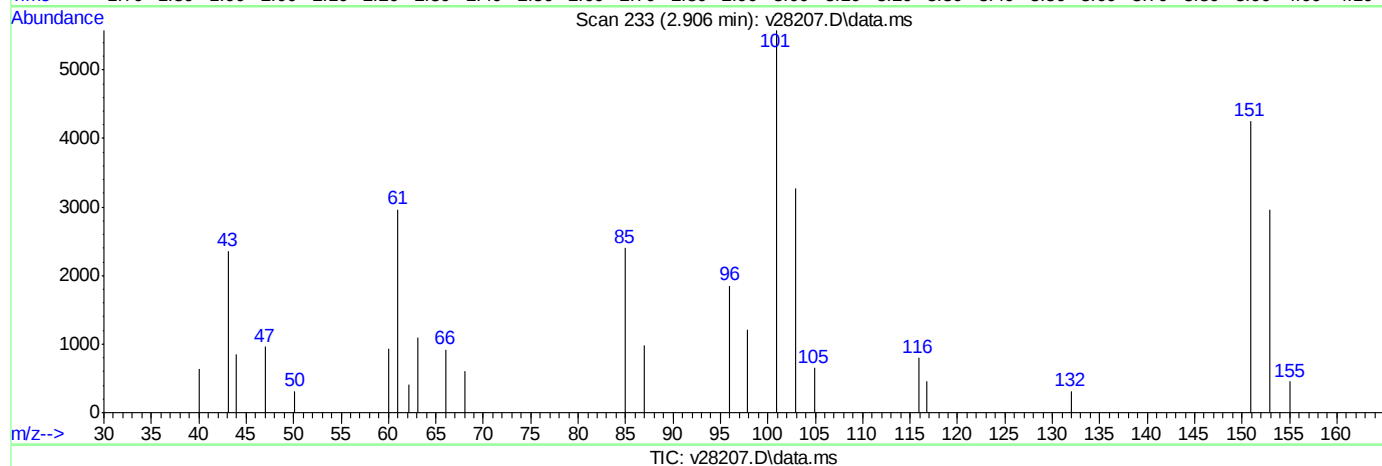
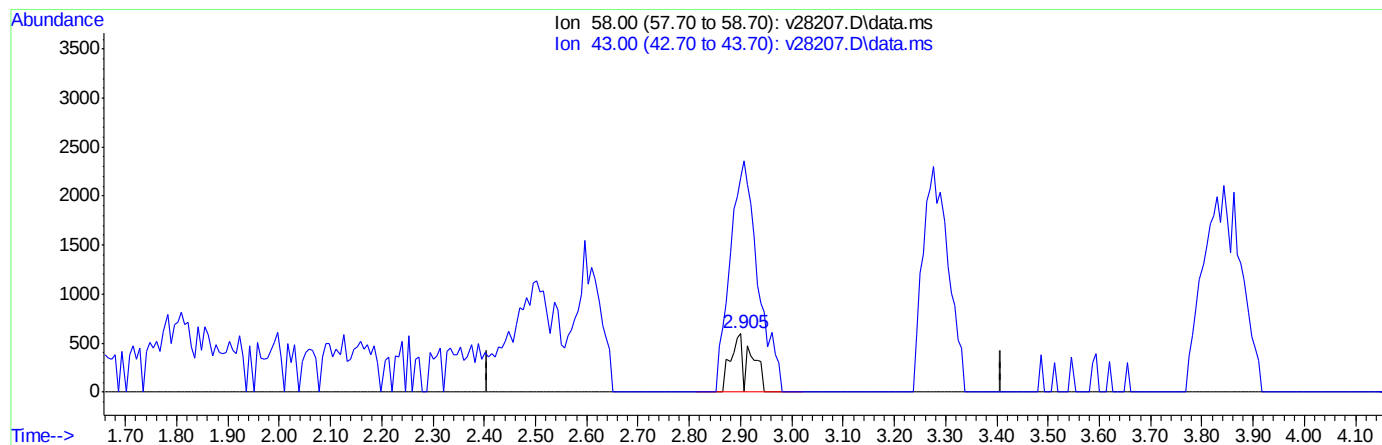
Page: 4

7.6.5

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(16) acetone (p)

2.906min (-0.001) 5.90ug/L m

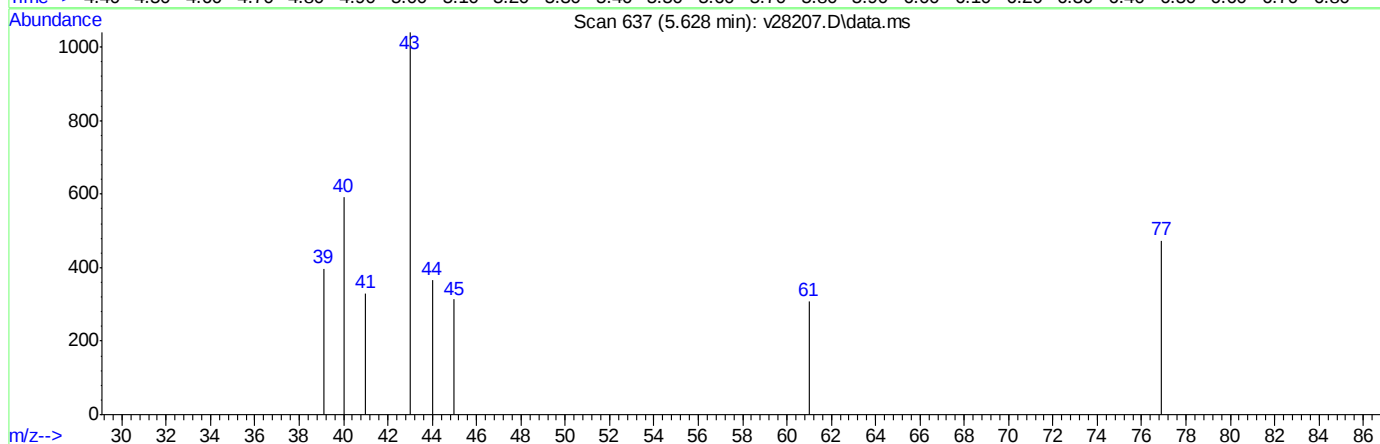
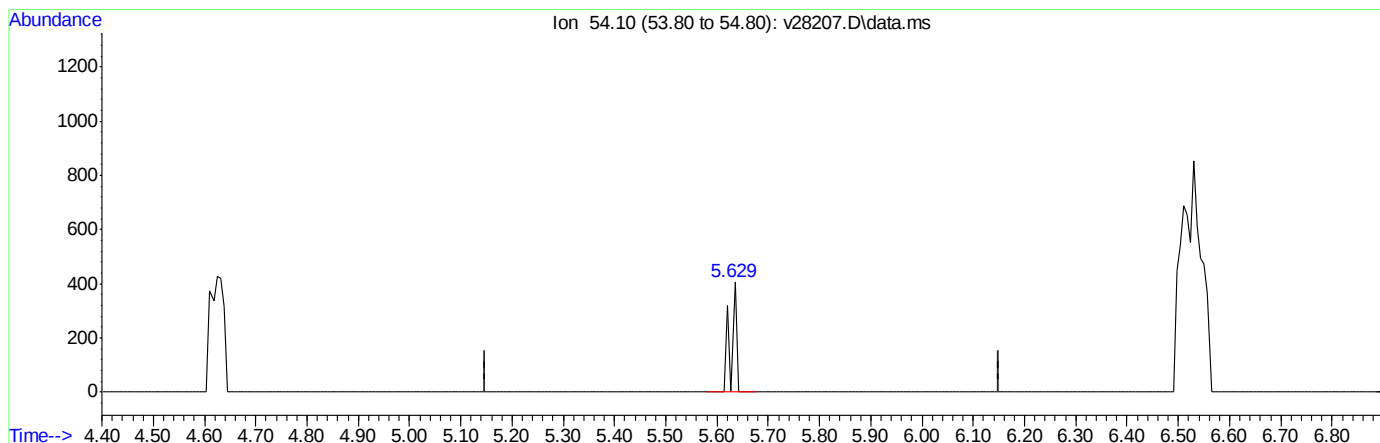
response 1619

Ion	Exp%	Act%
58.00	100	100
43.00	310.00	236300.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



TIC: v28207.D\data.ms

(25) propionitrile (p)

5.628min (-0.022) 1.25ug/L m

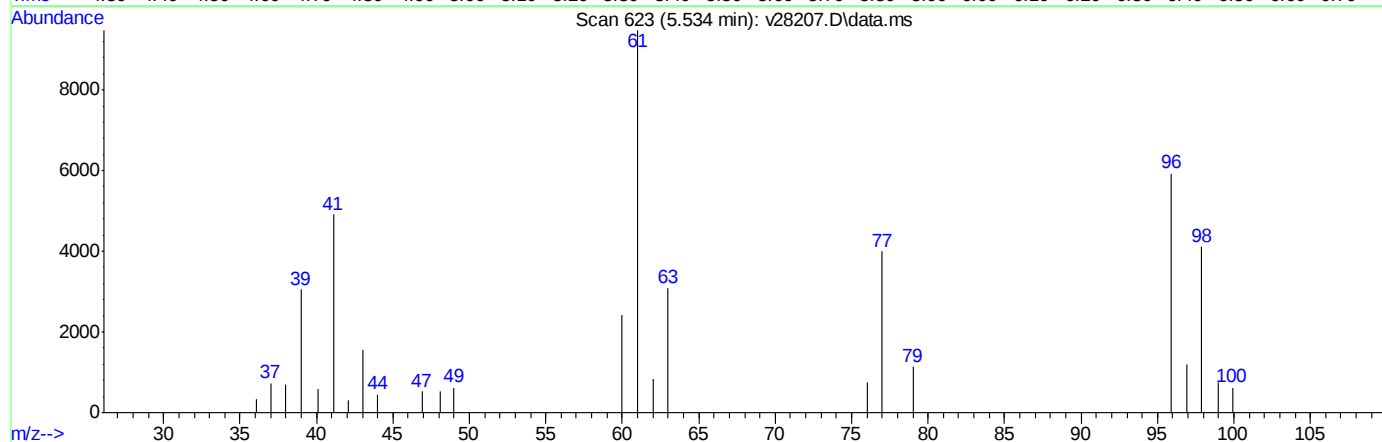
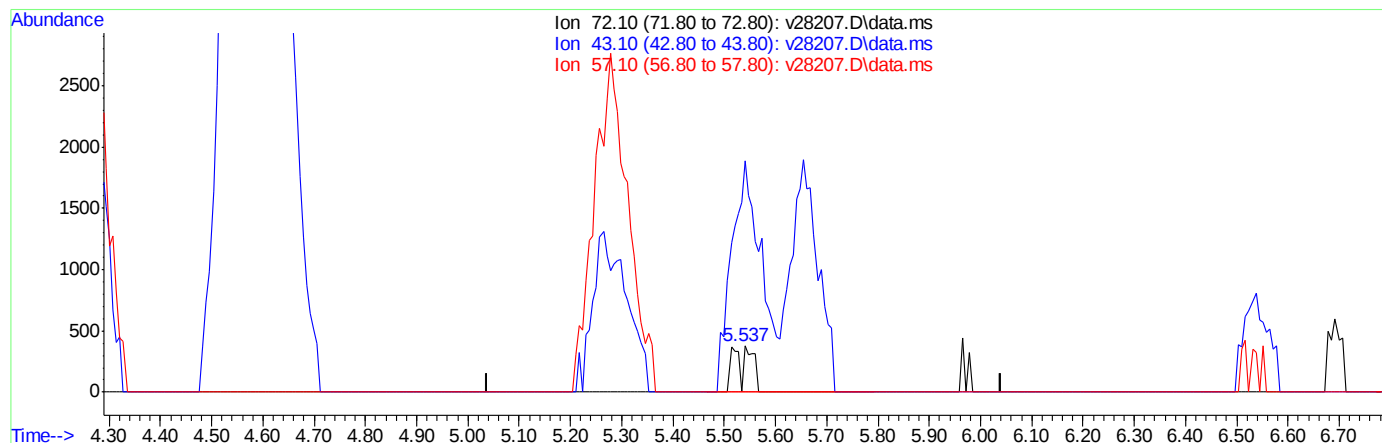
response 293

Ion	Exp%	Act%
54.10	100	100
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\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(30) 2-butanone (p)

5.534min (-0.006) 3.75ug/L m

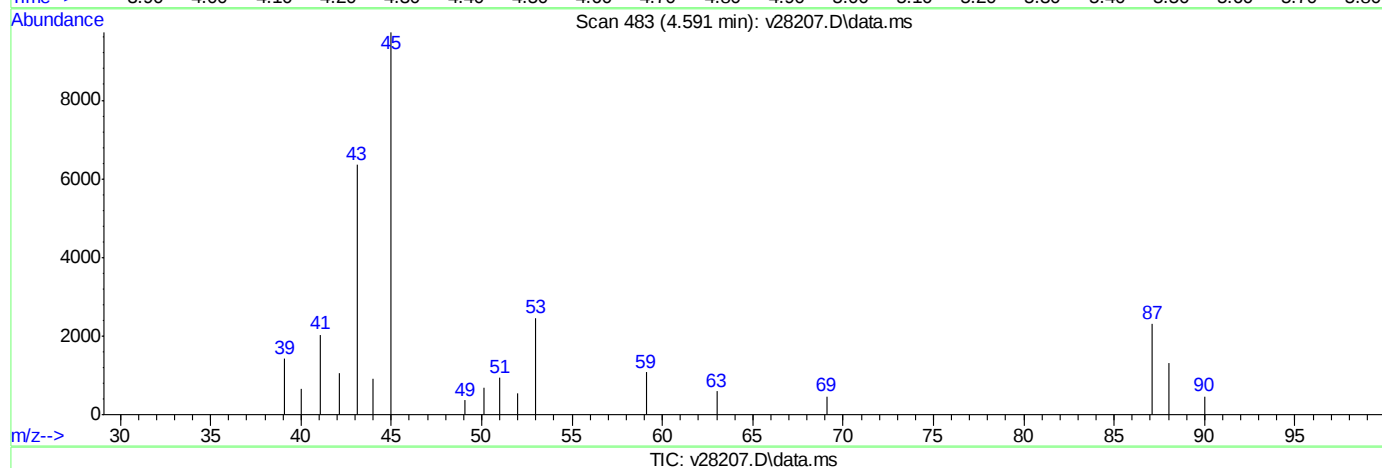
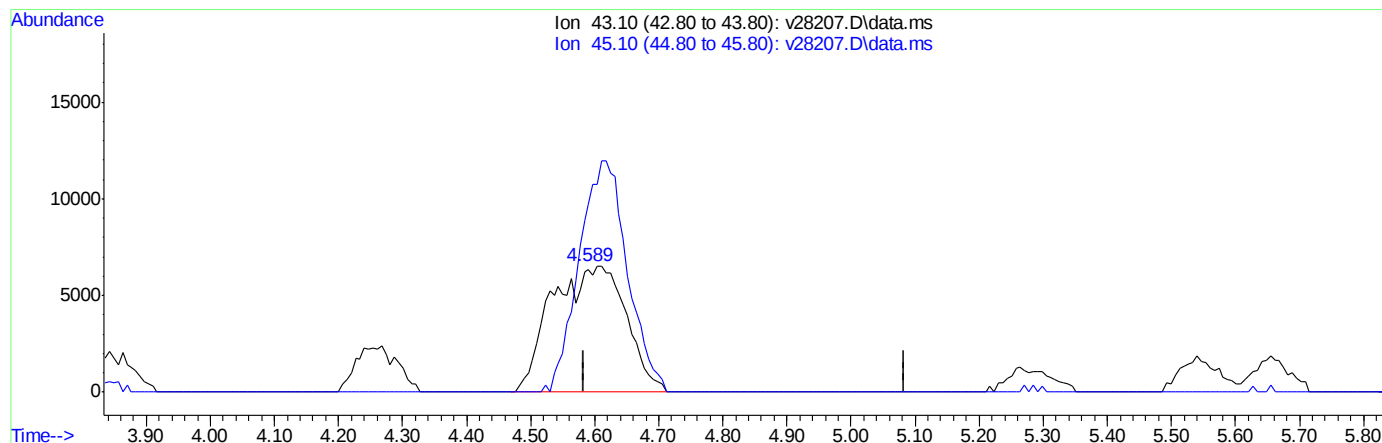
response 946

Ion	Exp%	Act%
72.10	100	100
43.10	342.00	155300.00#
57.10	31.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.591min (+0.007) 4.90ug/L m

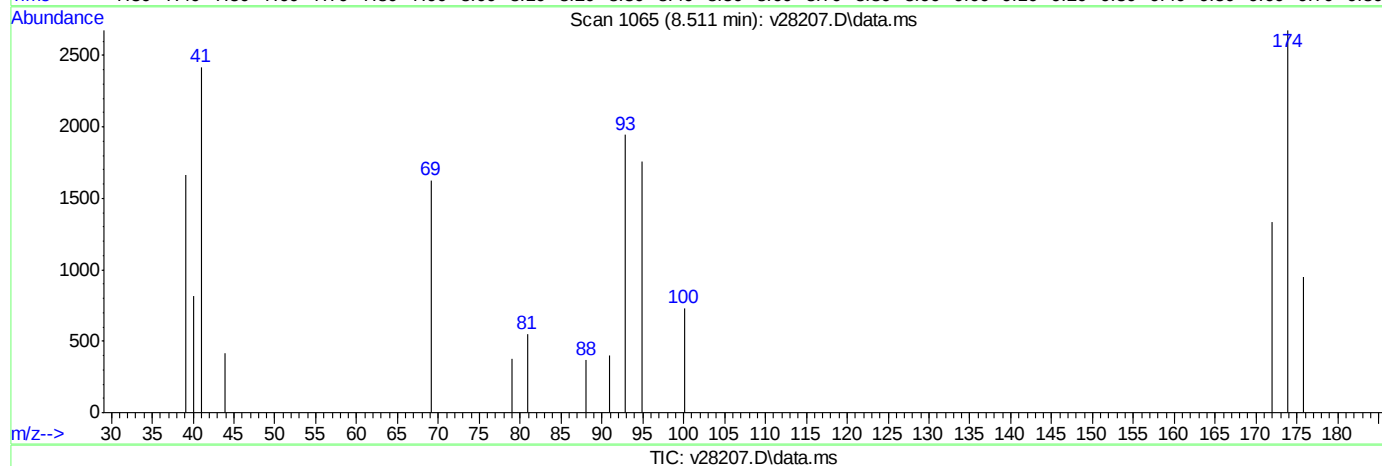
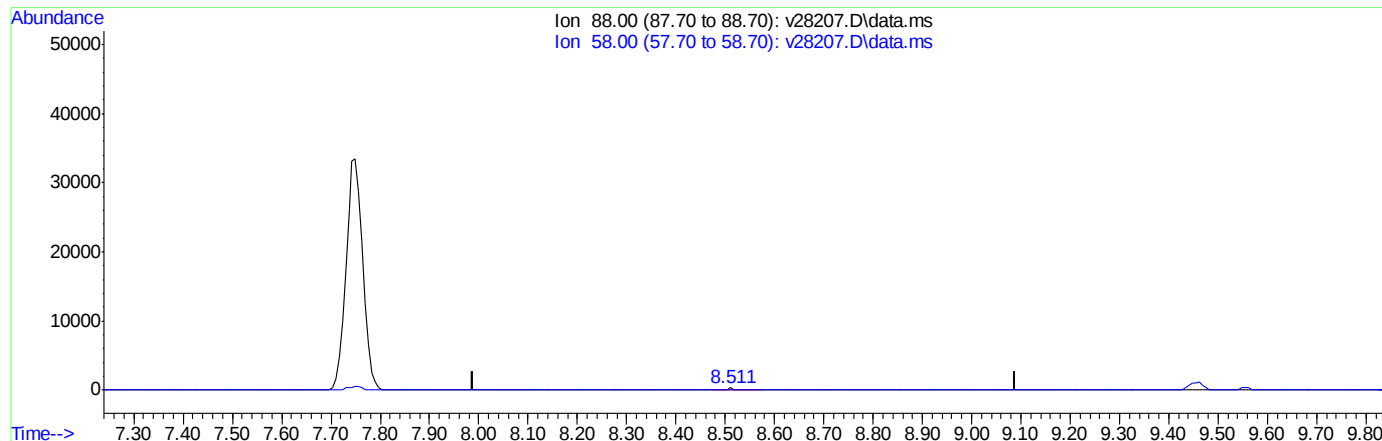
response 52672

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

8.511min (+0.012) 9.90ug/L m

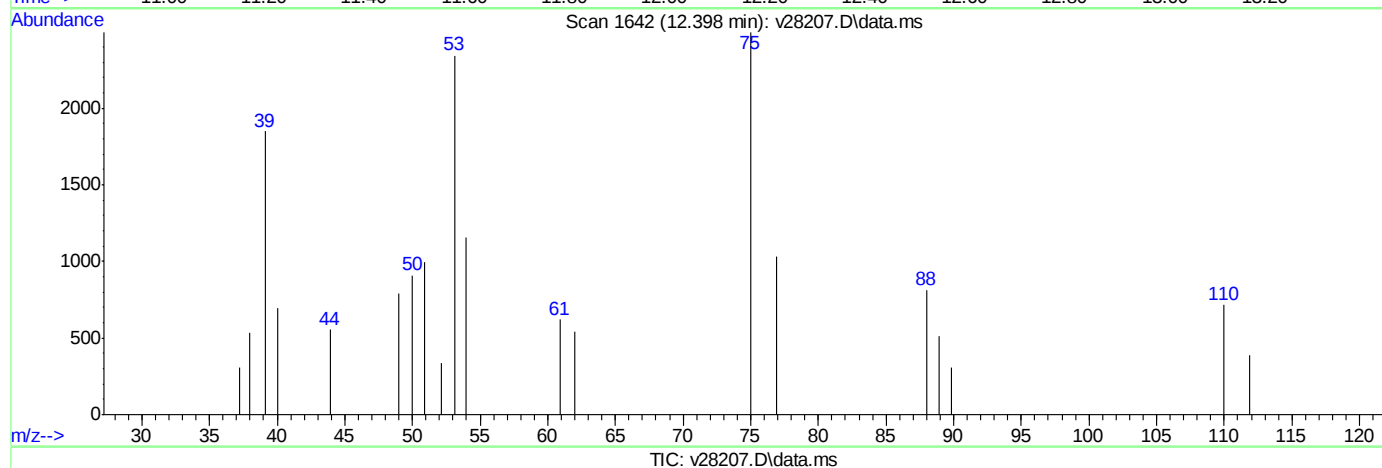
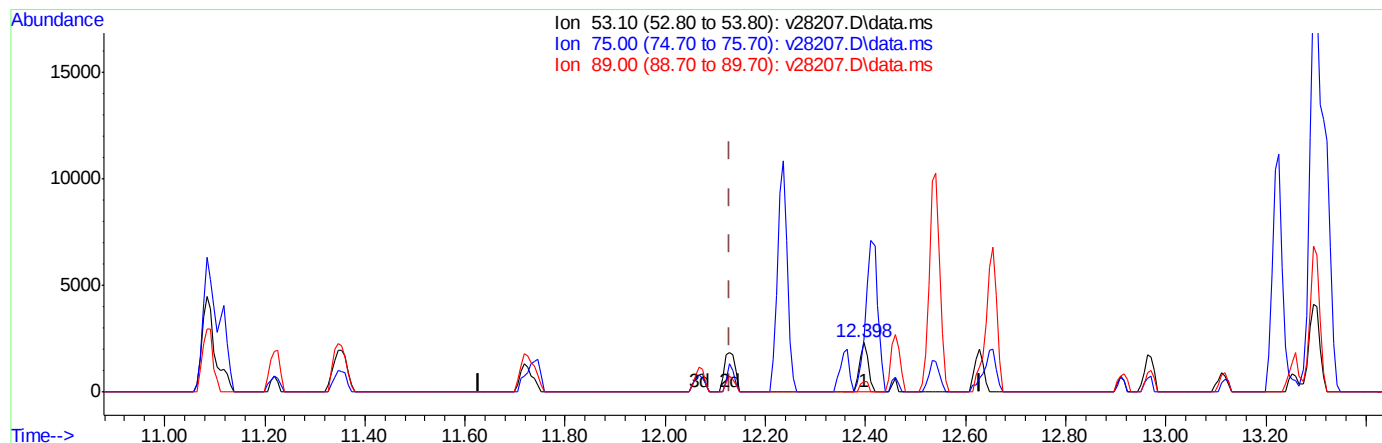
response 148

Ion	Exp%	Act%
88.00	100	100
58.00	76.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.398min (+0.269) 4.12ug/L

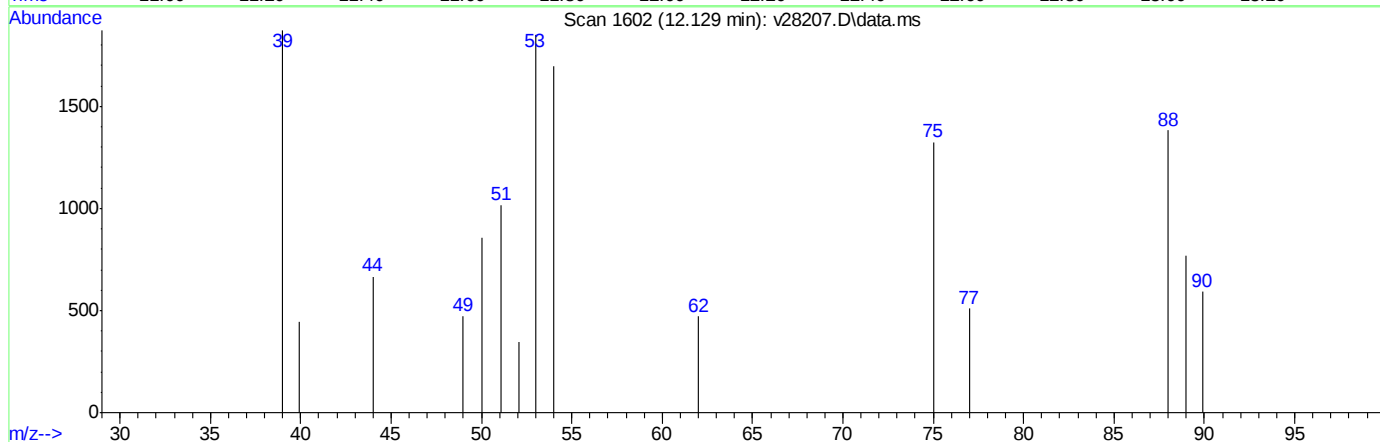
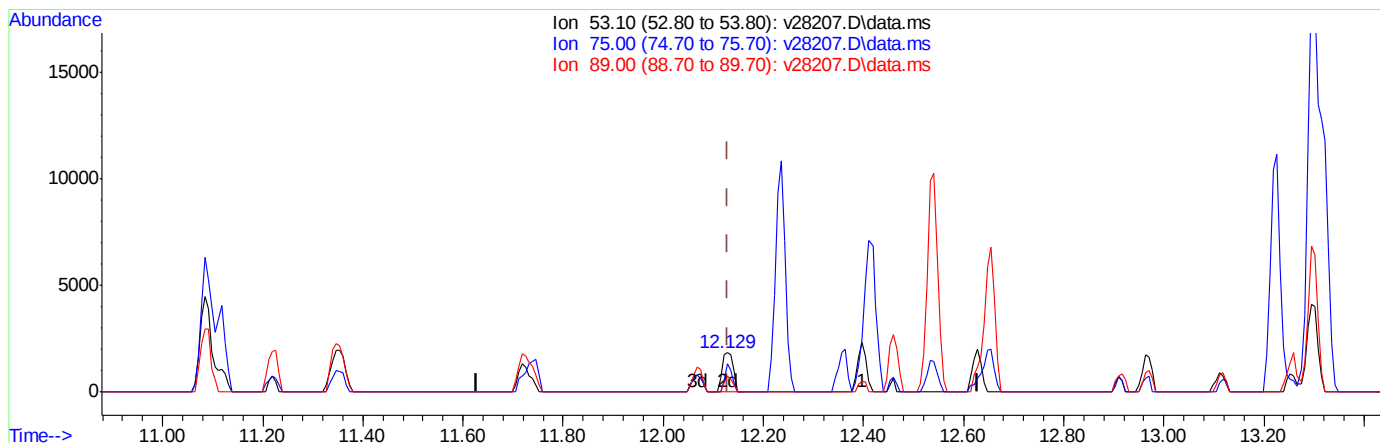
response 2764

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	106.44
89.00	51.30	21.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28207.D
Acq On : 26 Feb 2014 4:27 pm
Operator : amym
Sample : ic1058-5
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 27 07:59:34 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



TIC: v28207.D\data.ms

(79) trans-1,4-dichloro-2-butene (p)

12.129min (-0.000) 4.17ug/L m

response 2800

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	71.65#
89.00	51.30	41.72
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28208.D
 Acq On : 26 Feb 2014 4:53 pm
 Operator : amym
 Sample : ic1058-10
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 08:09:23 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.504	65	53942	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.564	168	368783	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.746	114	501801	50.00	ug/L	0.00
66) chlorobenzene-d5	11.086	82	250222	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.299	152	261013	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.442	113	49544	9.86	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	19.72%#		
60) toluene-d8 (s)	9.558	98	125379	10.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	20.04%#		
82) bromofluorobenzene (s)	12.235	95	52410	10.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	20.28%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.614	59	12509	96.09	ug/L	# 32
3) Ethanol	2.489	45	22044	1050.46	ug/L	# 100
5) dichlorodifluoromethane	1.501	85	107874	9.58	ug/L	98
6) chloromethane	1.602	50	73252	9.13	ug/L	99
7) vinyl chloride	1.711	62	70859	9.25	ug/L	99
8) bromomethane	2.005	96	59031	9.41	ug/L	99
9) chloroethane	2.100	64	32722	9.58	ug/L	99
10) ethyl ether	2.599	59	26605	10.44	ug/L	89
11) acetonitrile	3.291	41	60886	9.29	ug/L	76
12) trichlorofluoromethane	2.336	101	119005	9.29	ug/L	99
13) freon-113	2.890	101	52439	8.24	ug/L	92
14) acrolein	2.750	56	10018	42.58	ug/L	94
15) 1,1-dichloroethene	2.862	96	45462	9.61	ug/L	# 77
16) acetone	2.899	58	2714	9.99	ug/L	# 1
17) Methyl Acetate	3.277	43	14386	9.37	ug/L	# 91
18) methylene chloride	3.461	84	46236	10.07	ug/L	83
19) methyl tert butyl ether	3.835	73	82306	9.60	ug/L	96
20) acrylonitrile	3.779	53	8229	10.19	ug/L	100
21) allyl chloride	3.291	41	60882	9.29	ug/L	90
22) trans-1,2-dichloroethene	3.835	96	47290	10.16	ug/L	91
23) iodomethane	3.029	142	120557	10.23	ug/L	84
24) carbon disulfide	3.113	76	151910	9.50	ug/L	99
25) propionitrile	5.644	54	1746	7.53	ug/L	100
26) vinyl acetate	4.583	43	102186	9.60	ug/L	84
27) chloroprene	4.622	53	57322	9.14	ug/L	89
28) di-isopropyl ether	4.608	45	123360	9.84	ug/L	91
29) methacrylonitrile	5.922	41	12738	9.60	ug/L	91
30) 2-butanone	5.535	72	2388	9.56	ug/L	# 1
31) Hexane	4.253	41	29738	7.23	ug/L	# 73
32) 1,1-dichloroethane	4.511	63	79458	9.89	ug/L	98
33) tert-butyl ethyl ether	5.275	59	85355	9.20	ug/L	98
34) isobutyl alcohol	4.583	43	102186	48.01	ug/L	65
35) 2,2-dichloropropane	5.548	77	51527	8.50	ug/L	90
36) cis-1,2-dichloroethene	5.534	96	43987	9.92	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28208.D
 Acq On : 26 Feb 2014 4:53 pm
 Operator : amym
 Sample : ic1058-10
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 08:09:23 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.584	43	102184m	9.59	ug/L	
38) bromochloromethane	5.954	128	20614	9.85	ug/L	96
39) chloroform	6.172	83	88890	10.01	ug/L	99
41) Tetrahydrofuran	5.965	42	3996	8.86	ug/L	92
42) 1,1,1-trichloroethane	6.417	97	83710	8.98	ug/L	91
44) Cyclohexane	6.528	56	54547	8.78	ug/L #	89
45) carbon tetrachloride	6.673	117	74719	8.52	ug/L	98
46) 1,1-dichloropropene	6.686	75	50307	9.39	ug/L	96
47) benzene	7.006	78	128236	10.26	ug/L	98
48) 1,2-dichloroethane	7.130	62	55128	10.37	ug/L	92
49) tert-amyl methyl ether	7.294	73	54734	9.06	ug/L	91
50) heptane	7.564	43	26822	7.38	ug/L	84
51) trichloroethene	8.038	95	41221	9.94	ug/L	96
52) 1,2-dichloropropane	8.388	63	31849	10.06	ug/L	98
53) dibromomethane	8.491	93	19631	9.94	ug/L	88
54) bromodichloromethane	8.742	83	48198	9.44	ug/L	96
55) Methylcyclohexane	8.342	83	40980	7.34	ug/L	94
56) 2-chloroethyl vinyl ether	9.118	63	3754	6.91	ug/L	94
57) methyl methacrylate	8.520	69	8924	8.63	ug/L	81
58) 1,4-dioxane	8.491	88	331m	22.71	ug/L	
59) cis-1,3-dichloropropene	9.270	75	36455	8.29	ug/L	99
61) 4-methyl-2-pentanone	9.454	43	14192	8.78	ug/L	87
62) toluene	9.634	92	80294	9.92	ug/L	100
63) trans-1,3-dichloropropene	9.921	75	25319	7.99	ug/L	97
64) 1,1,2-trichloroethane	10.127	83	18193	10.08	ug/L	98
65) ethyl methacrylate	10.003	69	20188	8.35	ug/L	86
67) tetrachloroethene	10.187	166	39840	9.24	ug/L	94
68) 1,3-dichloropropane	10.289	76	34735	9.74	ug/L	98
69) dibromochloromethane	10.510	129	30404	9.06	ug/L	91
70) 1,2-dibromoethane	10.619	107	21492	9.58	ug/L	93
71) 2-hexanone	10.362	43	11096	10.09	ug/L	75
72) chlorobenzene	11.116	112	106189	10.23	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.215	131	40882	9.14	ug/L	93
74) ethylbenzene	11.220	91	177443	9.78	ug/L	96
75) m,p-xylene	11.351	106	126058	19.12	ug/L	85
76) o-xylene	11.718	106	67260	9.84	ug/L	87
77) styrene	11.739	104	97206	9.63	ug/L	88
78) bromoform	11.913	173	14582	8.89	ug/L	95
79) trans-1,4-dichloro-2-b...	12.128	53	6254m	9.50	ug/L	
81) isopropylbenzene	12.070	105	184499	9.01	ug/L	96
83) bromobenzene	12.361	156	43740	9.97	ug/L	88
84) 1,1,2,2-tetrachloroethane	12.364	83	24152	9.85	ug/L	95
85) 1,2,3-trichloropropane	12.415	75	24150	9.92	ug/L	99
86) n-propylbenzene	12.459	91	213143	9.34	ug/L	98
87) 2-chlorotoluene	12.537	91	143529	9.97	ug/L	97
88) 4-chlorotoluene	12.649	91	159778	10.07	ug/L	93
89) 1,3,5-trimethylbenzene	12.628	105	159117	9.17	ug/L	98
90) tert-butylbenzene	12.914	91	88048	8.58	ug/L	95
91) 1,2,4-trimethylbenzene	12.968	105	166111	9.57	ug/L	100
92) sec-butylbenzene	13.117	105	173953	8.48	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28208.D
Acq On : 26 Feb 2014 4:53 pm
Operator : amym
Sample : ic1058-10
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 08:09:23 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration

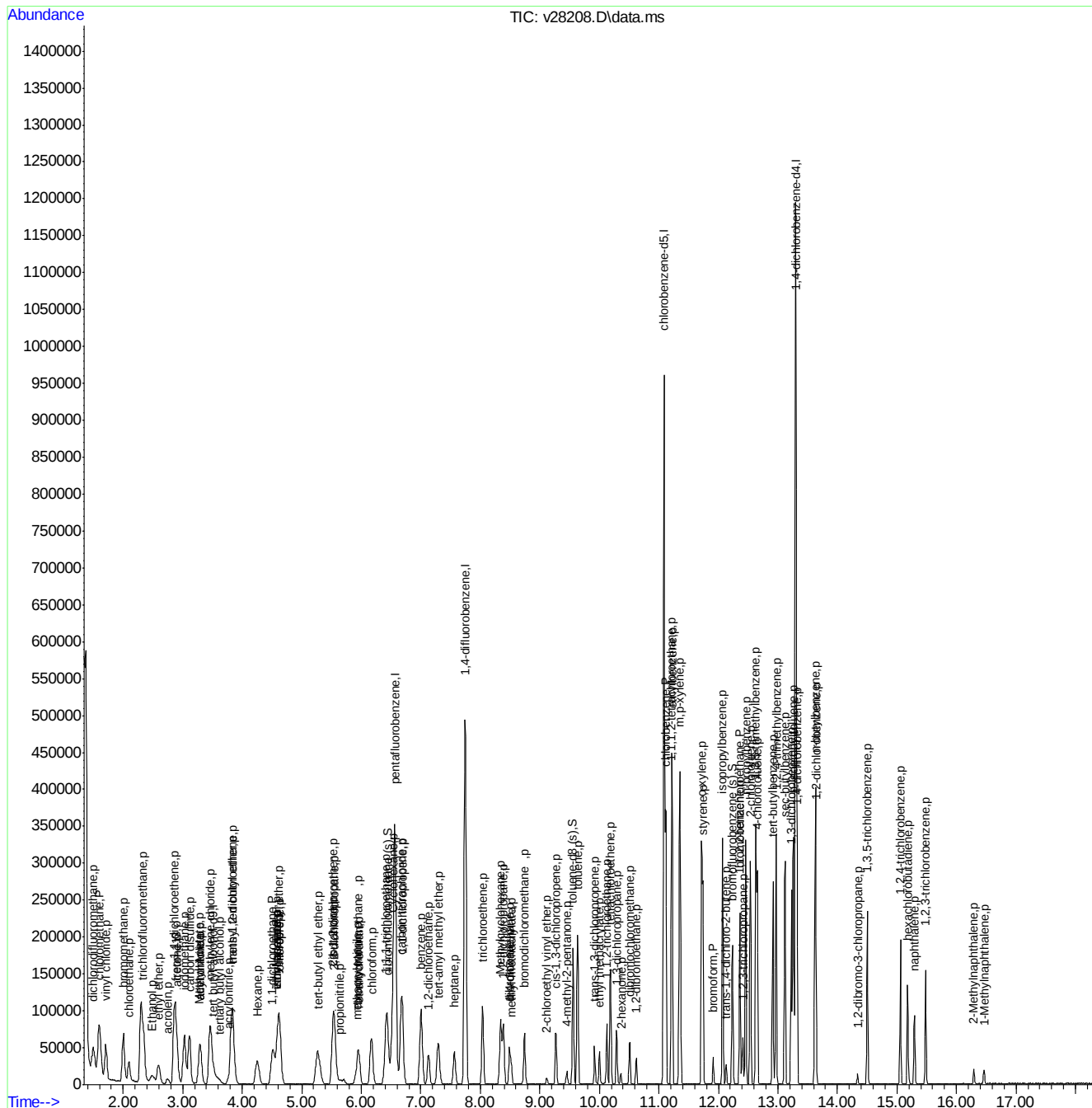
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.225	146	92409	10.16	ug/L	99
94) p-isopropyltoluene	13.258	119	162005	8.99	ug/L	97
95) 1,4-dichlorobenzene	13.320	146	89251	10.45	ug/L	98
96) 1,2-dichlorobenzene	13.638	146	85675	10.09	ug/L	97
97) n-butylbenzene	13.623	91	138019	8.83	ug/L	96
98) 1,2-dibromo-3-chloropr...	14.339	75	3311	9.07	ug/L	80
99) 1,3,5-trichlorobenzene	14.504	180	61656	9.71	ug/L	100
100) 1,2,4-trichlorobenzene	15.059	180	50551	10.35	ug/L	99
101) hexachlorobutadiene	15.180	225	19758	8.90	ug/L	90
102) naphthalene	15.294	128	62497	10.09	ug/L	100
103) 1,2,3-trichlorobenzene	15.483	180	39225	11.47	ug/L	98
104) 2-Methylnaphthalene	16.293	142	10890	7.75	ug/L	99
105) 1-Methylnaphthalene	16.464	142	9996	8.61	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28208.D
Acq On : 26 Feb 2014 4:53 pm
Operator : amym
Sample : ic1058-10
Misc : MS31132,MSV1058,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 08:09:23 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 09:54:59 2014

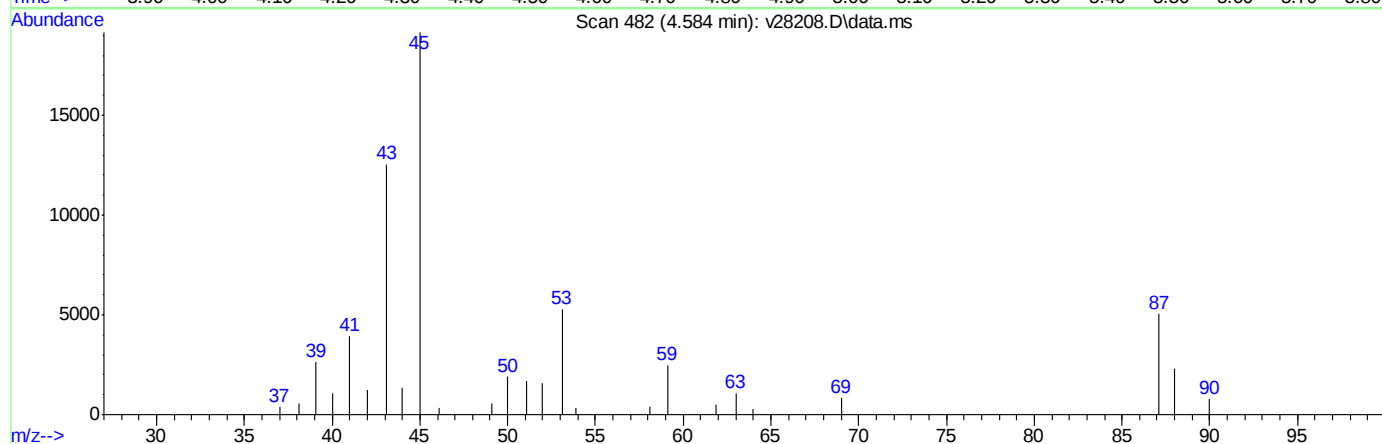
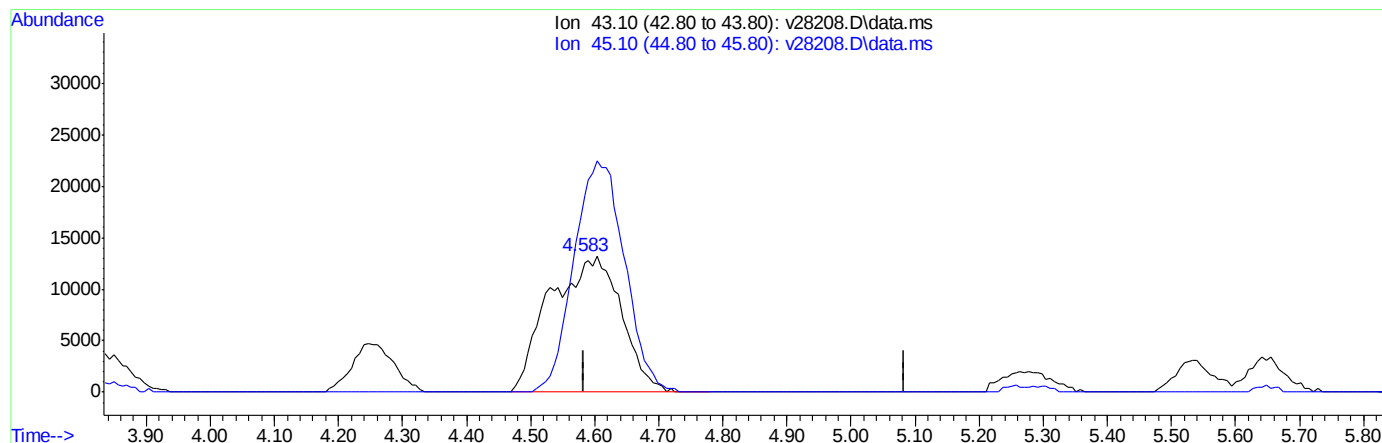
Page: 4

7.6.6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28208.D
Acq On : 26 Feb 2014 4:53 pm
Operator : amym
Sample : ic1058-10
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 07:59:37 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.584min (-0.000) 9.59ug/L m

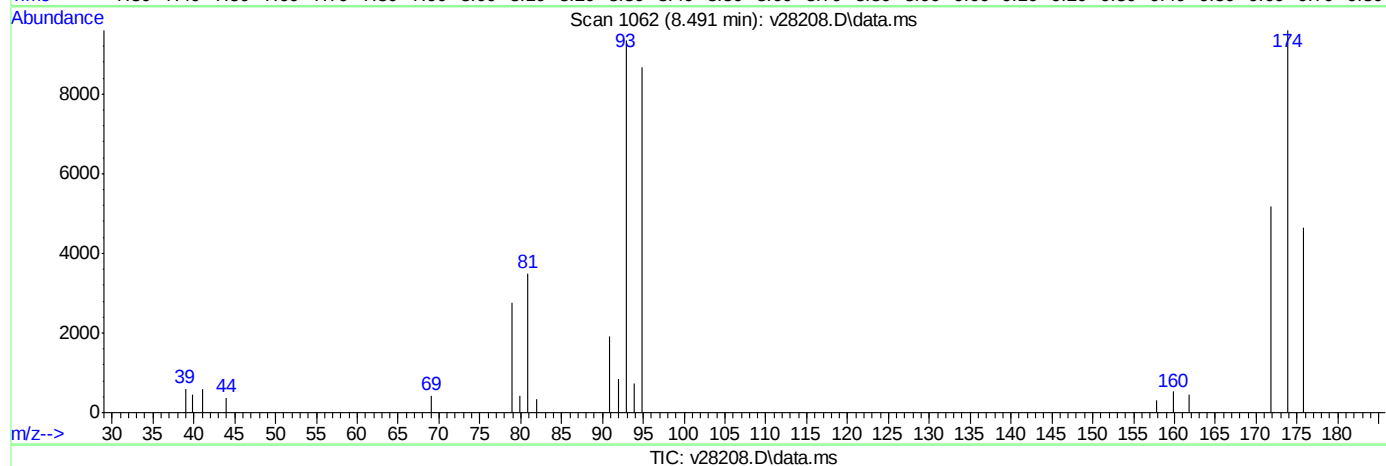
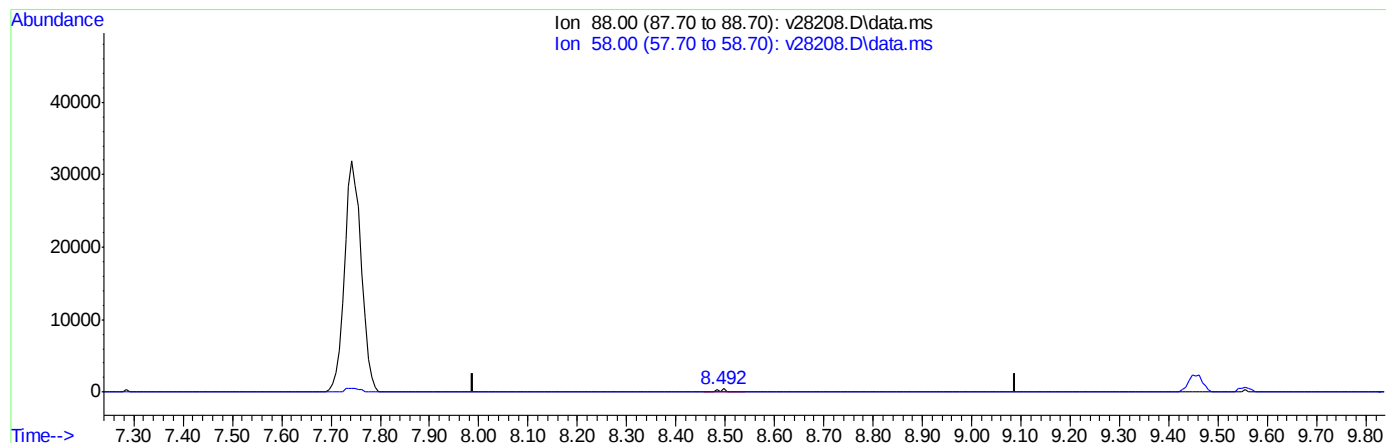
response 102184

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
Data File : v28208.D
Acq On : 26 Feb 2014 4:53 pm
Operator : amym
Sample : ic1058-10
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 07:59:37 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

8.491min (-0.009) 22.71ug/L m

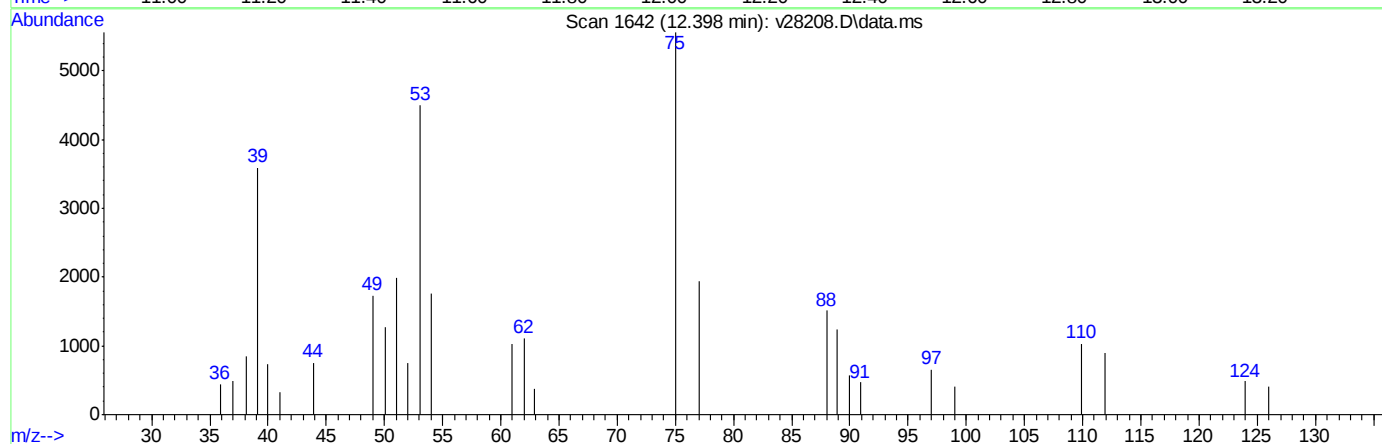
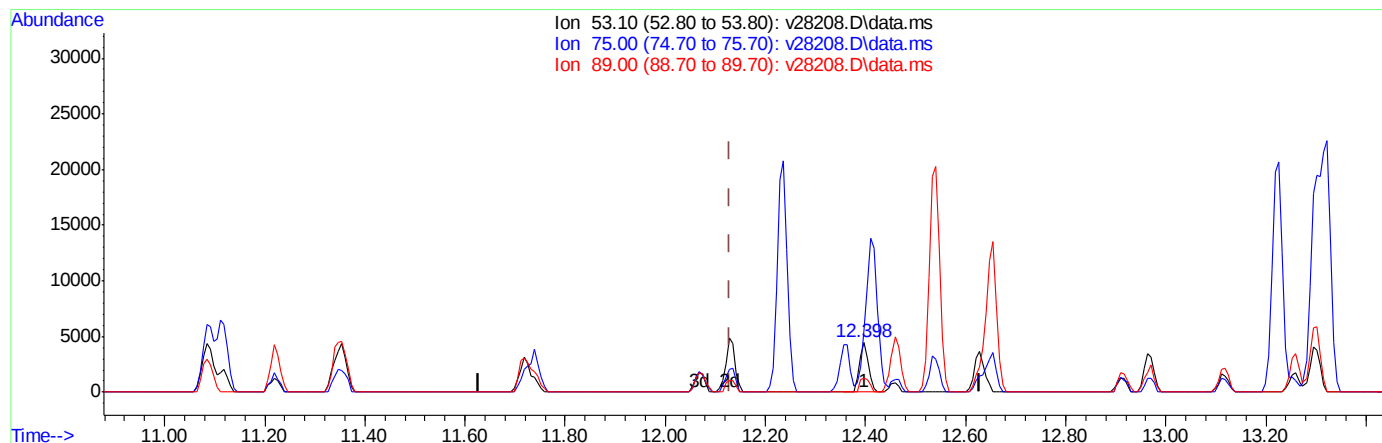
response 331

Ion	Exp%	Act%
88.00	100	100
58.00	76.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28208.D
Acq On : 26 Feb 2014 4:53 pm
Operator : amym
Sample : ic1058-10
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 07:59:37 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



TIC: v28208.D\data.ms

(79) trans-1,4-dichloro-2-butene (p)

12.398min (+0.270) 8.46ug/L

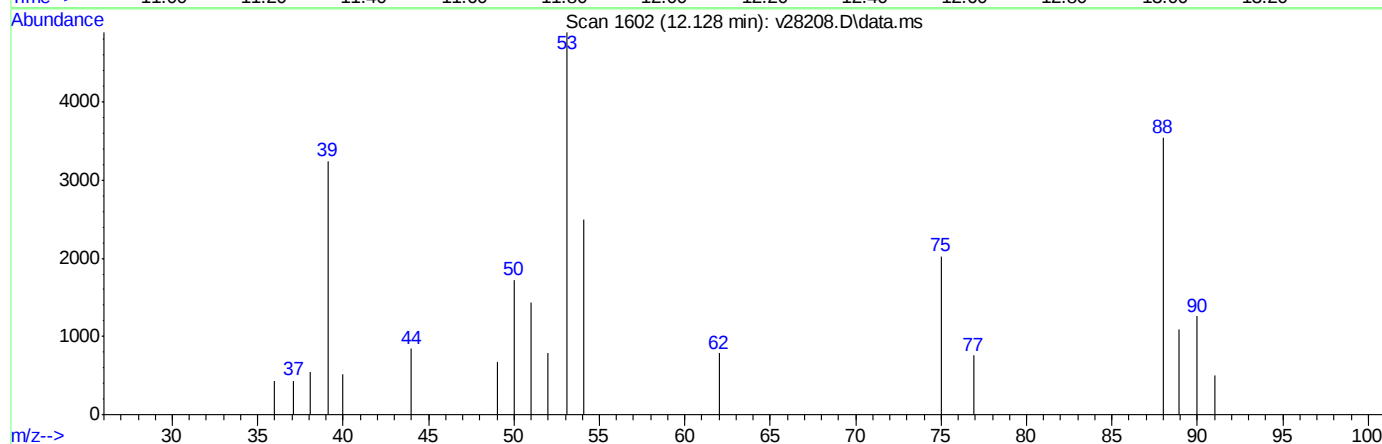
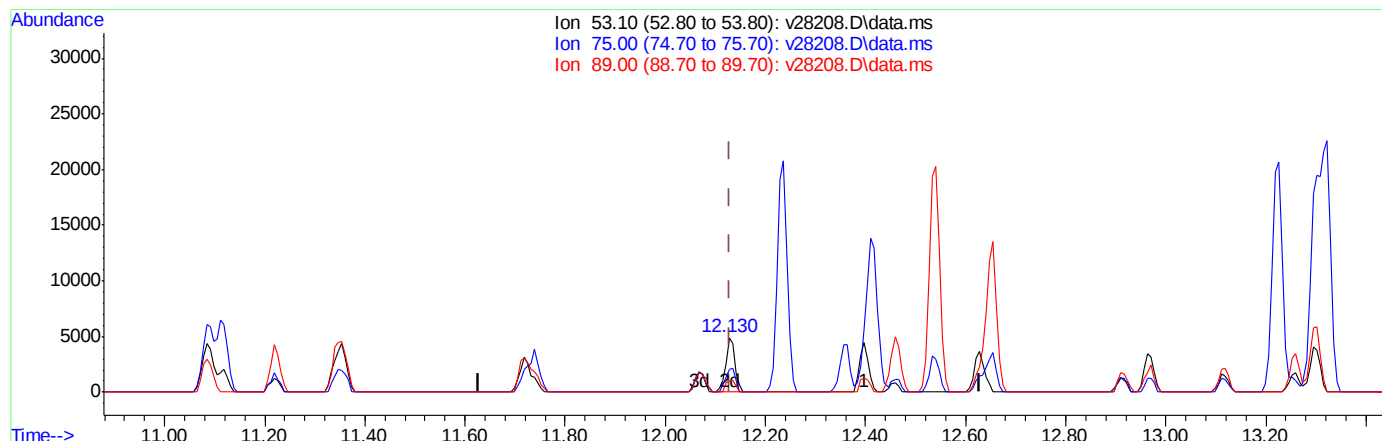
response 5571

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	105.31
89.00	51.30	27.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28208.D
Acq On : 26 Feb 2014 4:53 pm
Operator : amym
Sample : ic1058-10
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 27 07:59:37 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.128min (-0.000) 9.50ug/L m

response 6254

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	41.47#
89.00	51.30	22.25
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28209.D
 Acq On : 26 Feb 2014 5:20 pm
 Operator : amym
 Sample : icc1058-50
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 08:10:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.510	65	56617	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.567	168	375018	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.748	114	527185	50.00	ug/L	0.00
66) chlorobenzene-d5	11.086	82	259891	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.298	152	267794	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.446	113	255536	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
60) toluene-d8 (s)	9.559	98	657494	50.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.02%		
82) bromofluorobenzene (s)	12.234	95	265173	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.621	59	68318	499.99	ug/L	# 39
3) Ethanol	2.499	45	110121	4999.64	ug/L	# 100
5) dichlorodifluoromethane	1.508	85	588249	51.37	ug/L	100
6) chloromethane	1.613	50	408058	50.00	ug/L	96
7) vinyl chloride	1.721	62	389318	50.00	ug/L	100
8) bromomethane	2.012	96	318962	49.99	ug/L	97
9) chloroethane	2.106	64	173606	49.99	ug/L	99
10) ethyl ether	2.607	59	129547	50.00	ug/L	95
11) acetonitrile	3.298	41	333302	50.03	ug/L	83
12) trichlorofluoromethane	2.342	101	651127	50.00	ug/L	99
13) freon-113	2.896	101	323407	50.00	ug/L	98
14) acrolein	2.758	56	59808	249.98	ug/L	99
15) 1,1-dichloroethene	2.869	96	240472	50.00	ug/L	# 80
16) acetone	2.908	58	13813	50.00	ug/L	# 78
17) Methyl Acetate	3.284	43	78081	50.00	ug/L	95
18) methylene chloride	3.468	84	233505	50.00	ug/L	88
19) methyl tert butyl ether	3.843	73	435743	50.00	ug/L	97
20) acrylonitrile	3.786	53	41038	50.00	ug/L	89
21) allyl chloride	3.298	41	333302	50.00	ug/L	90
22) trans-1,2-dichloroethene	3.841	96	236558	50.00	ug/L	94
23) iodomethane	3.035	142	599332	50.00	ug/L	87
24) carbon disulfide	3.120	76	812545	49.97	ug/L	100
25) propionitrile	5.650	54	11793	50.00	ug/L	100
26) vinyl acetate	4.586	43	541025	50.00	ug/L	89
27) chloroprene	4.629	53	318941	50.00	ug/L	84
28) di-isopropyl ether	4.614	45	637319	50.00	ug/L	91
29) methacrylonitrile	5.924	41	67464	50.00	ug/L	89
30) 2-butanone	5.540	72	12702	50.00	ug/L	# 54
31) Hexane	4.260	41	209198	49.99	ug/L	# 73
32) 1,1-dichloroethane	4.518	63	408486	50.00	ug/L	100
33) tert-butyl ethyl ether	5.281	59	471757	50.00	ug/L	97
34) isobutyl alcohol	4.586	43	541461	250.18	ug/L	65
35) 2,2-dichloropropane	5.554	77	308089	50.00	ug/L	94
36) cis-1,2-dichloroethene	5.539	96	225537	50.00	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28209.D
 Acq On : 26 Feb 2014 5:20 pm
 Operator : amym
 Sample : icc1058-50
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 08:10:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.584	43	541354m	49.99	ug/L	
38) bromochloromethane	5.959	128	106427	50.00	ug/L	95
39) chloroform	6.177	83	451406	50.00	ug/L	100
41) Tetrahydrofuran	5.965	42	22925	50.00	ug/L	94
42) 1,1,1-trichloroethane	6.422	97	473793	50.00	ug/L	95
44) Cyclohexane	6.528	56	326499	50.01	ug/L	96
45) carbon tetrachloride	6.677	117	460905	50.01	ug/L	100
46) 1,1-dichloropropene	6.690	75	281195	49.94	ug/L	94
47) benzene	7.009	78	656713	50.01	ug/L	99
48) 1,2-dichloroethane	7.133	62	279403	50.01	ug/L	95
49) tert-amyl methyl ether	7.298	73	317428	50.01	ug/L	94
50) heptane	7.566	43	191028	50.01	ug/L	86
51) trichloroethene	8.040	95	217863	50.01	ug/L	96
52) 1,2-dichloropropane	8.388	63	166289	50.01	ug/L	100
53) dibromomethane	8.492	93	103742	50.01	ug/L	87
54) bromodichloromethane	8.743	83	268246	50.01	ug/L	100
55) Methylcyclohexane	8.344	83	293492	50.01	ug/L	95
56) 2-chloroethyl vinyl ether	9.118	63	28551	50.01	ug/L	96
57) methyl methacrylate	8.522	69	54321	50.01	ug/L #	76
58) 1,4-dioxane	8.499	88	3828	250.03	ug/L	89
59) cis-1,3-dichloropropene	9.271	75	230890	50.01	ug/L	97
61) 4-methyl-2-pentanone	9.455	43	84901	50.01	ug/L	88
62) toluene	9.635	92	425333	50.01	ug/L	99
63) trans-1,3-dichloropropene	9.922	75	166382	50.01	ug/L	93
64) 1,1,2-trichloroethane	10.128	83	94840	50.01	ug/L	98
65) ethyl methacrylate	10.001	69	127064	50.01	ug/L	84
67) tetrachloroethene	10.188	166	223846	50.00	ug/L	97
68) 1,3-dichloropropane	10.290	76	185256	50.00	ug/L	99
69) dibromochloromethane	10.510	129	174350	50.00	ug/L	100
70) 1,2-dibromoethane	10.619	107	116543	50.00	ug/L	97
71) 2-hexanone	10.362	43	57117	50.00	ug/L	82
72) chlorobenzene	11.115	112	538816	50.00	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.215	131	232167	50.00	ug/L	96
74) ethylbenzene	11.220	91	942608	50.00	ug/L	94
75) m,p-xylene	11.351	106	684929	100.01	ug/L	89
76) o-xylene	11.718	106	354948	50.00	ug/L	84
77) styrene	11.738	104	524424	50.00	ug/L	90
78) bromoform	11.913	173	85227	50.00	ug/L	96
79) trans-1,4-dichloro-2-b...	12.129	53	34199m	50.00	ug/L	
81) isopropylbenzene	12.070	105	1050728	50.00	ug/L	97
83) bromobenzene	12.360	156	225130	50.00	ug/L	90
84) 1,1,2,2-tetrachloroethane	12.364	83	125764	50.00	ug/L	98
85) 1,2,3-trichloropropane	12.403	75	157668	63.14	ug/L	99
86) n-propylbenzene	12.458	91	1170950	50.00	ug/L	96
87) 2-chlorotoluene	12.537	91	738176	50.00	ug/L	98
88) 4-chlorotoluene	12.648	91	814114	50.00	ug/L	95
89) 1,3,5-trimethylbenzene	12.627	105	889474	49.99	ug/L	97
90) tert-butylbenzene	12.913	91	521778	49.57	ug/L	91
91) 1,2,4-trimethylbenzene	12.967	105	890162	50.00	ug/L	98
92) sec-butylbenzene	13.116	105	1052151	50.00	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28209.D
Acq On : 26 Feb 2014 5:20 pm
Operator : amym
Sample : icc1058-50
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 08:10:37 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration

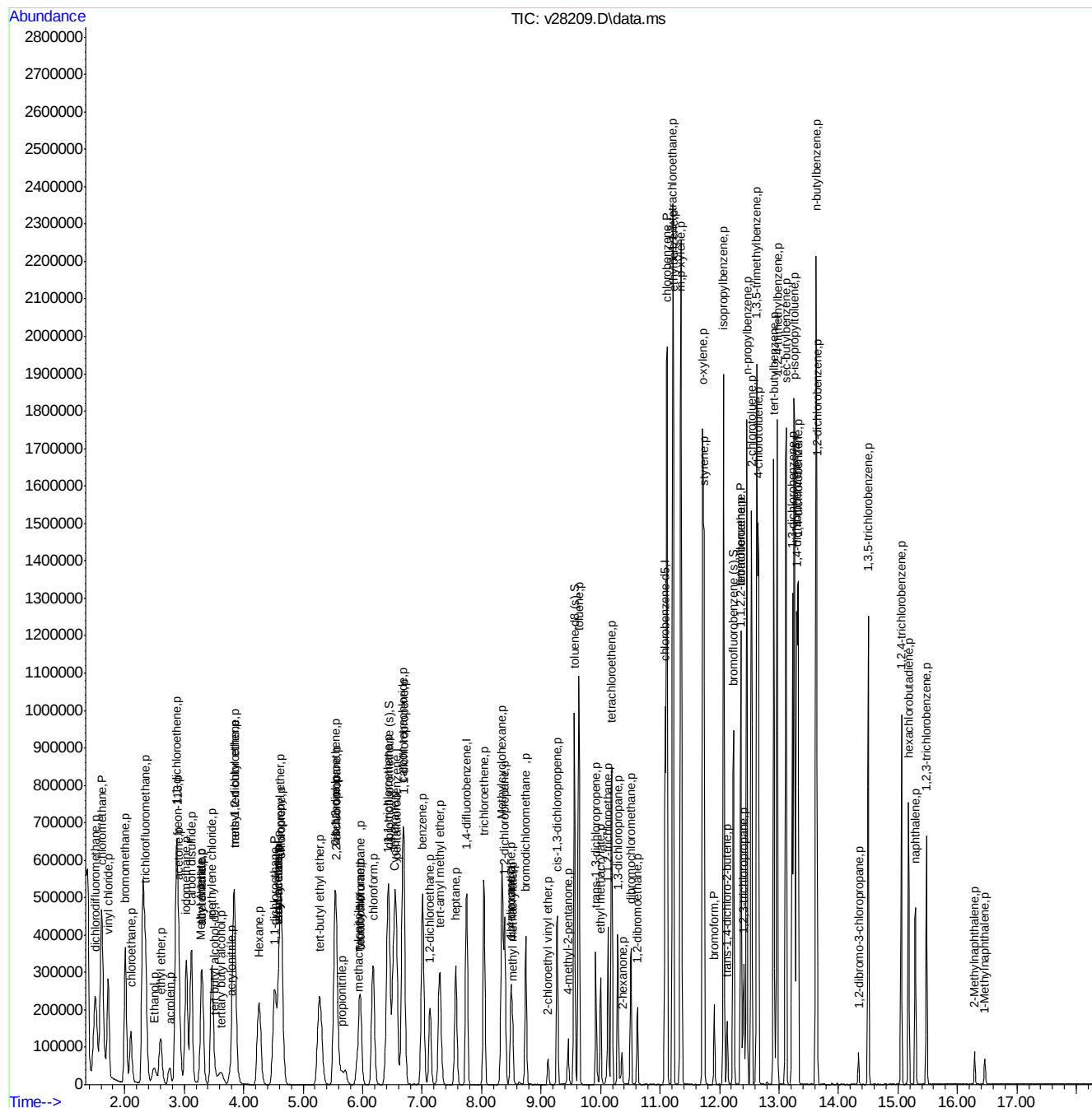
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.224	146	466743	50.00	ug/L	99
94) p-isopropyltoluene	13.257	119	924650	50.00	ug/L	98
95) 1,4-dichlorobenzene	13.320	146	437997	50.00	ug/L	100
96) 1,2-dichlorobenzene	13.637	146	435522	50.00	ug/L	100
97) n-butylbenzene	13.622	91	801927	50.00	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.338	75	18721	50.00	ug/L	80
99) 1,3,5-trichlorobenzene	14.503	180	325795	50.00	ug/L	98
100) 1,2,4-trichlorobenzene	15.058	180	250452	50.00	ug/L	100
101) hexachlorobutadiene	15.180	225	113841	50.00	ug/L	93
102) naphthalene	15.293	128	317659	50.00	ug/L	100
103) 1,2,3-trichlorobenzene	15.481	180	175455	50.00	ug/L	98
104) 2-Methylnaphthalene	16.292	142	36050	25.00	ug/L	93
105) 1-Methylnaphthalene	16.462	142	29786	25.00	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28209.D
Acq On : 26 Feb 2014 5:20 pm
Operator : amym
Sample : icc1058-50
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 08:10:37 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 09:55:05 2014

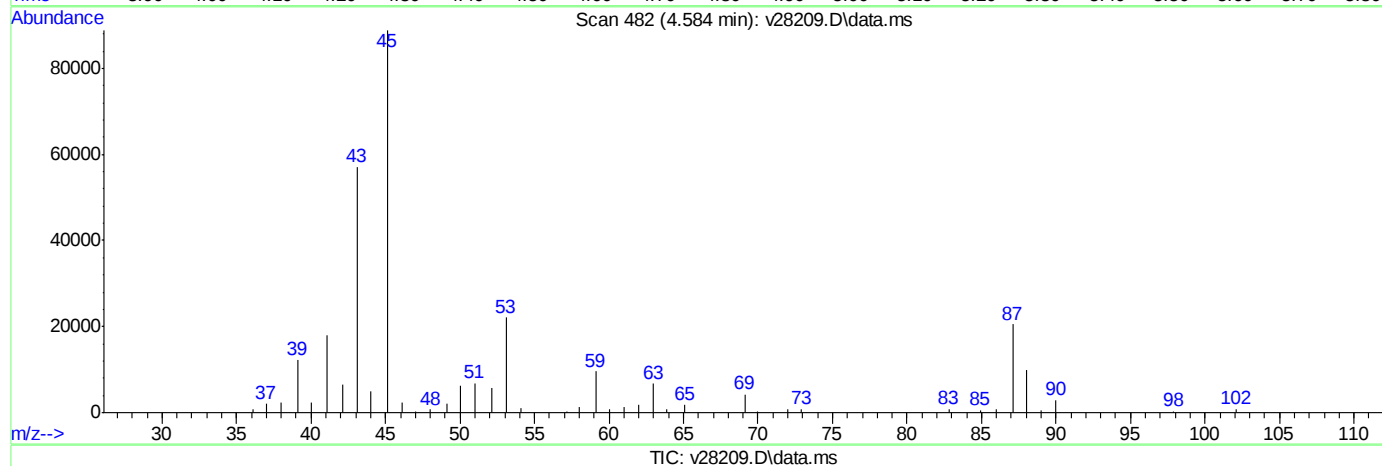
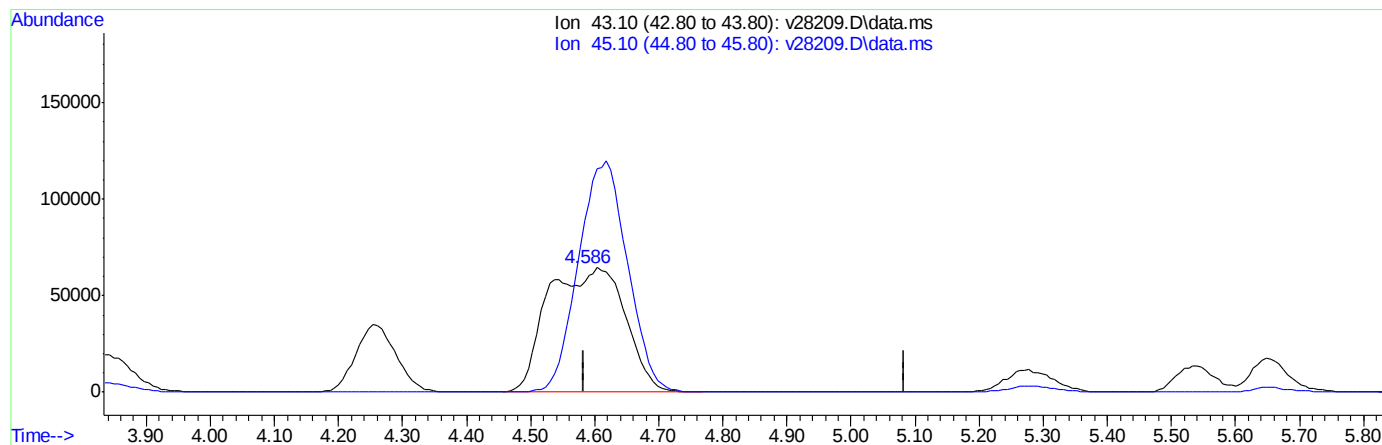
Page: 4

7.6.7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28209.D
Acq On : 26 Feb 2014 5:20 pm
Operator : amym
Sample : icc1058-50
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 07:59:40 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.584min (0.000) 49.99ug/L m

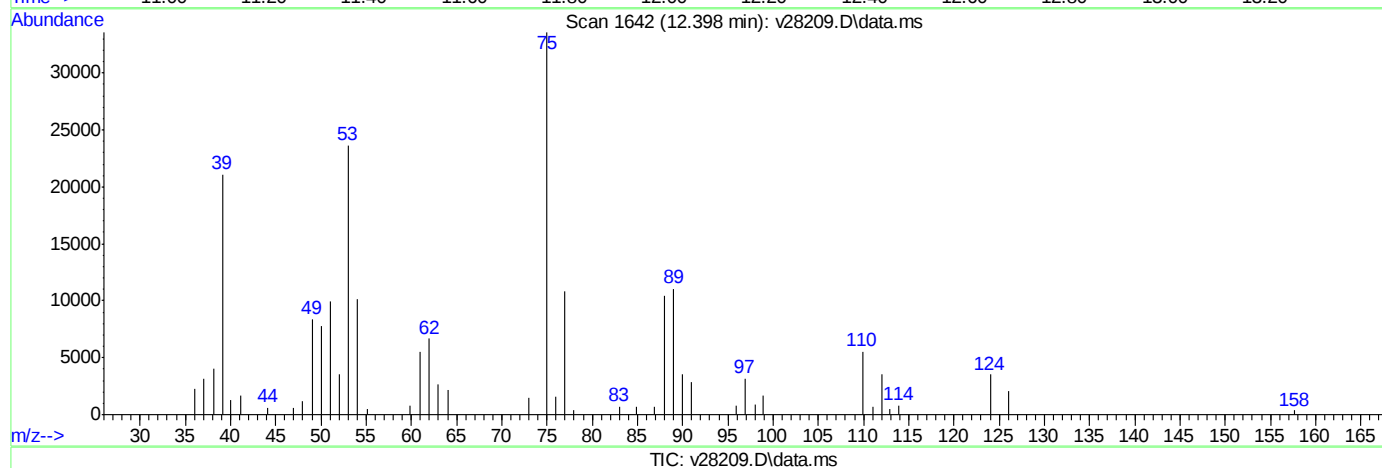
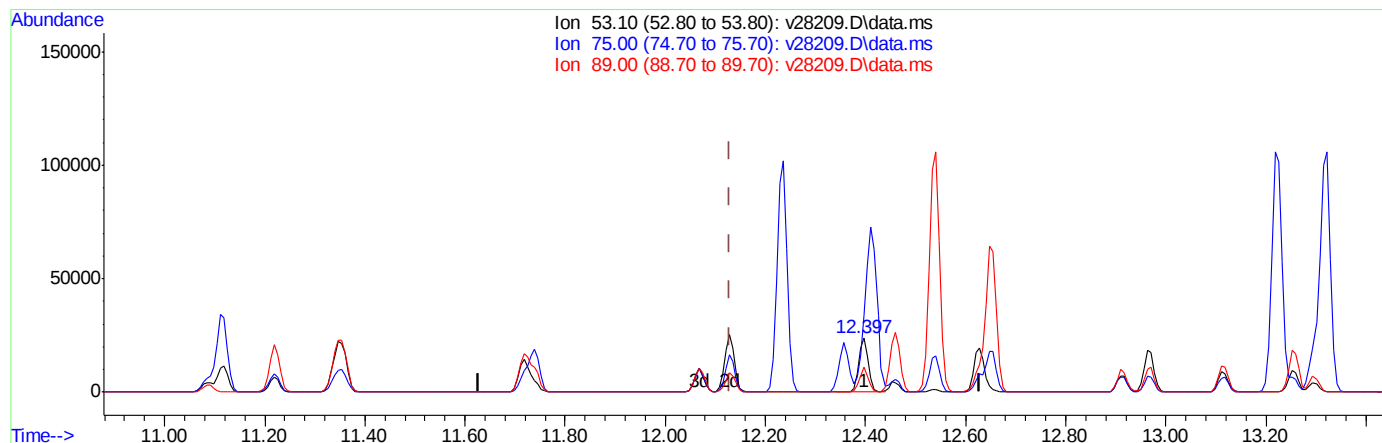
response 541354

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
Data File : v28209.D
Acq On : 26 Feb 2014 5:20 pm
Operator : amym
Sample : icc1058-50
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 07:59:40 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.397min (+0.269) 45.97ug/L

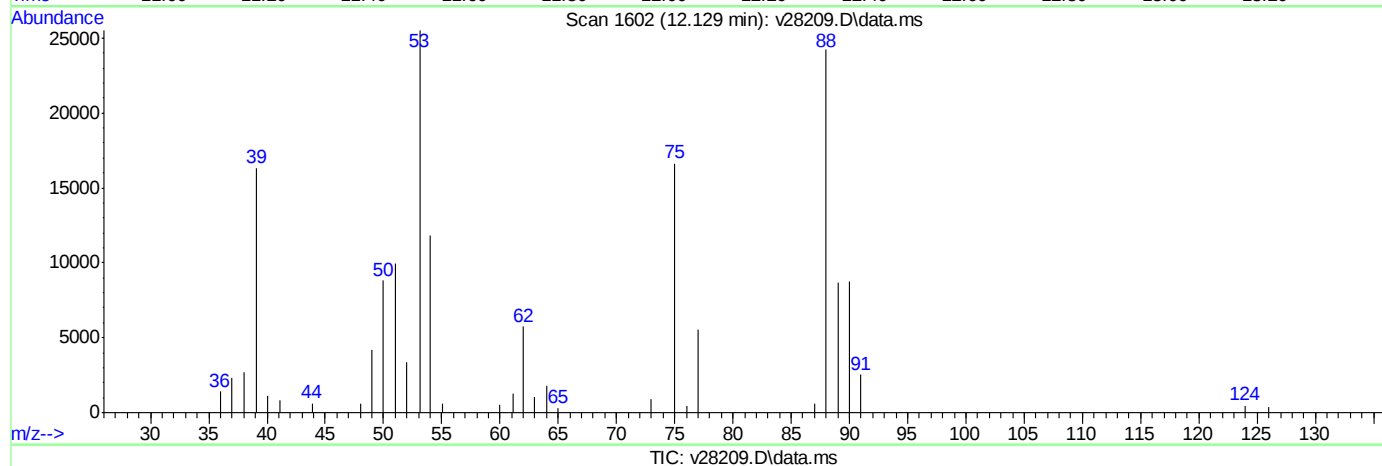
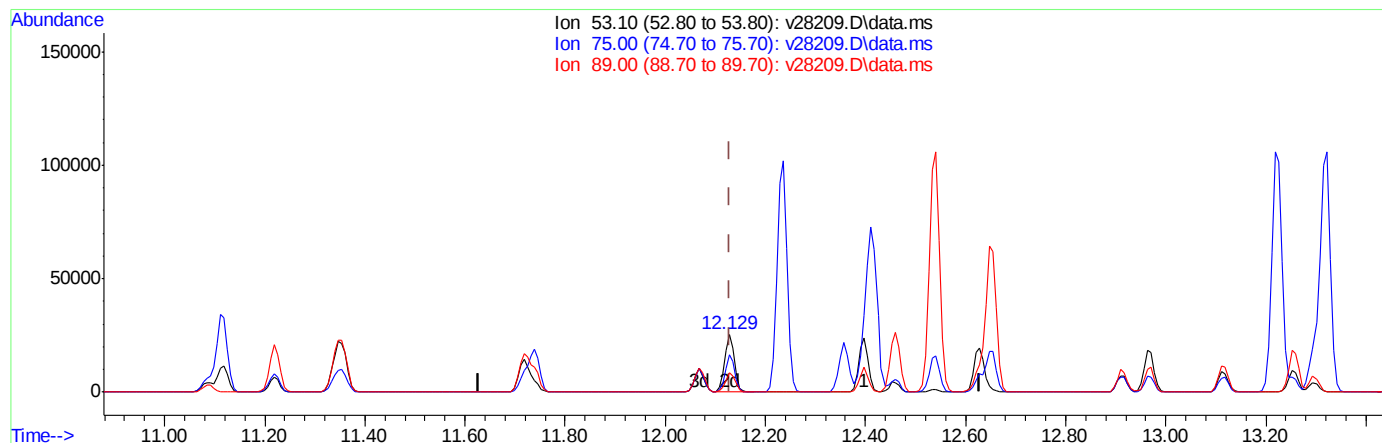
response 31441

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	129.83
89.00	51.30	46.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28209.D
Acq On : 26 Feb 2014 5:20 pm
Operator : amym
Sample : icc1058-50
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 27 07:59:40 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.129min (0.000) 50.00ug/L m

response 34199

Ion	Exp%	Act%
53.10	100	100
75.00	105.50	65.19#
89.00	51.30	33.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28210.D
 Acq On : 26 Feb 2014 5:46 pm
 Operator : amym
 Sample : ic1058-100
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 08:11:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.515	65	63276	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.570	168	414239	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.749	114	588179	50.00	ug/L	0.00
66) chlorobenzene-d5	11.085	82	288927	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.297	152	298643	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.448	113	558442	98.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	197.82%#		
60) toluene-d8 (s)	9.559	98	1507704	102.78	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	205.56%#		
82) bromofluorobenzene (s)	12.234	95	600487	101.53	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	203.06%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.626	59	160124	1048.56	ug/L	# 51
3) Ethanol	2.501	45	233924	9502.79	ug/L	# 100
5) dichlorodifluoromethane	1.512	85	1252629	99.03	ug/L	100
6) chloromethane	1.620	50	935836	103.80	ug/L	96
7) vinyl chloride	1.727	62	883642	102.73	ug/L	100
8) bromomethane	2.017	96	715247	101.49	ug/L	98
9) chloroethane	2.109	64	387660	101.07	ug/L	100
10) ethyl ether	2.610	59	287764	100.55	ug/L	96
11) acetonitrile	3.301	41	754858	102.58	ug/L	85
12) trichlorofluoromethane	2.345	101	1433101	99.62	ug/L	99
13) freon-113	2.901	101	698872	97.81	ug/L	98
14) acrolein	2.760	56	135694	513.46	ug/L	96
15) 1,1-dichloroethene	2.872	96	532086	100.15	ug/L	84
16) acetone	2.910	58	34793	114.01	ug/L	# 35
17) Methyl Acetate	3.286	43	168326	97.58	ug/L	95
18) methylene chloride	3.470	84	503747	97.65	ug/L	89
19) methyl tert butyl ether	3.849	73	985561	102.37	ug/L	96
20) acrylonitrile	3.789	53	89732	98.97	ug/L	100
21) allyl chloride	3.301	41	754858	102.51	ug/L	90
22) trans-1,2-dichloroethene	3.844	96	522047	99.89	ug/L	91
23) iodomethane	3.038	142	1320601	99.74	ug/L	88
24) carbon disulfide	3.123	76	1794249	99.90	ug/L	100
25) propionitrile	5.653	54	26370	101.21	ug/L	100
26) vinyl acetate	4.588	43	1219262	102.00	ug/L	90
27) chloroprene	4.633	53	708604	100.56	ug/L	84
28) di-isopropyl ether	4.618	45	1425618	101.25	ug/L	92
29) methacrylonitrile	5.926	41	151471	101.62	ug/L	89
30) 2-butanone	5.540	72	30947	110.28	ug/L	# 69
31) Hexane	4.264	41	463859	100.36	ug/L	# 74
32) 1,1-dichloroethane	4.522	63	902856	100.04	ug/L	99
33) tert-butyl ethyl ether	5.284	59	1076238	103.26	ug/L	98
34) isobutyl alcohol	4.588	43	1219095	509.95	ug/L	65
35) 2,2-dichloropropane	5.558	77	756827	111.19	ug/L	91
36) cis-1,2-dichloroethene	5.542	96	506924	101.73	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28210.D
 Acq On : 26 Feb 2014 5:46 pm
 Operator : amym
 Sample : ic1058-100
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 08:11:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.591	43	1218235m	101.83	ug/L	
38) bromochloromethane	5.961	128	231532	98.47	ug/L	96
39) chloroform	6.179	83	992962	99.56	ug/L	98
41) Tetrahydrofuran	5.967	42	50882	100.46	ug/L	94
42) 1,1,1-trichloroethane	6.424	97	1080656	103.24	ug/L	96
44) Cyclohexane	6.530	56	716419	98.35	ug/L	98
45) carbon tetrachloride	6.679	117	1047192	101.83	ug/L	99
46) 1,1-dichloropropene	6.692	75	628798	100.10	ug/L	95
47) benzene	7.011	78	1485498	101.38	ug/L	99
48) 1,2-dichloroethane	7.135	62	609352	97.75	ug/L	95
49) tert-amyl methyl ether	7.299	73	738820	104.32	ug/L	93
50) heptane	7.568	43	442135	103.75	ug/L	88
51) trichloroethene	8.041	95	490942	101.00	ug/L	96
52) 1,2-dichloropropane	8.389	63	376594	101.50	ug/L	100
53) dibromomethane	8.493	93	225951	97.62	ug/L	94
54) bromodichloromethane	8.743	83	613831	102.56	ug/L	100
55) Methylcyclohexane	8.345	83	663256	101.29	ug/L	95
56) 2-chloroethyl vinyl ether	9.118	63	70095	110.04	ug/L	98
57) methyl methacrylate	8.522	69	127013	104.80	ug/L	81
58) 1,4-dioxane	8.501	88	9693	567.45	ug/L	99
59) cis-1,3-dichloropropene	9.271	75	558457	108.41	ug/L	95
61) 4-methyl-2-pentanone	9.454	43	199757	105.45	ug/L	89
62) toluene	9.635	92	977109	102.96	ug/L	97
63) trans-1,3-dichloropropene	9.922	75	419834	113.09	ug/L	91
64) 1,1,2-trichloroethane	10.128	83	214805	101.51	ug/L	99
65) ethyl methacrylate	10.001	69	296353	104.53	ug/L	83
67) tetrachloroethene	10.187	166	507666	102.00	ug/L	96
68) 1,3-dichloropropane	10.289	76	412367	100.11	ug/L	99
69) dibromochloromethane	10.509	129	413105	106.56	ug/L	98
70) 1,2-dibromoethane	10.618	107	265087	102.30	ug/L	98
71) 2-hexanone	10.360	43	154355	121.55	ug/L	84
72) chlorobenzene	11.115	112	1224686	102.23	ug/L	100
73) 1,1,1,2-tetrachloroethane	11.214	131	550209	106.59	ug/L	97
74) ethylbenzene	11.220	91	2150330	102.60	ug/L	94
75) m,p-xylene	11.350	106	1572176	206.49	ug/L	87
76) o-xylene	11.717	106	826971	104.78	ug/L	87
77) styrene	11.738	104	1196904	102.65	ug/L	91
78) bromoform	11.912	173	204418	107.87	ug/L	99
79) trans-1,4-dichloro-2-b...	12.129	53	84921	111.68	ug/L #	70
81) isopropylbenzene	12.069	105	2434811	103.89	ug/L	98
83) bromobenzene	12.359	156	517840	103.13	ug/L	93
84) 1,1,2,2-tetrachloroethane	12.364	83	286082	101.99	ug/L	98
85) 1,2,3-trichloropropane	12.411	75	281704m	101.15	ug/L	
86) n-propylbenzene	12.457	91	2700297	103.39	ug/L	97
87) 2-chlorotoluene	12.537	91	1665319	101.15	ug/L	99
88) 4-chlorotoluene	12.648	91	1856882	102.26	ug/L	95
89) 1,3,5-trimethylbenzene	12.627	105	2084092	105.03	ug/L	96
90) tert-butylbenzene	12.913	91	1221441	104.05	ug/L	91
91) 1,2,4-trimethylbenzene	12.967	105	2052153	103.36	ug/L	97
92) sec-butylbenzene	13.116	105	2467012	105.13	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28210.D
Acq On : 26 Feb 2014 5:46 pm
Operator : amym
Sample : ic1058-100
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 08:11:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration

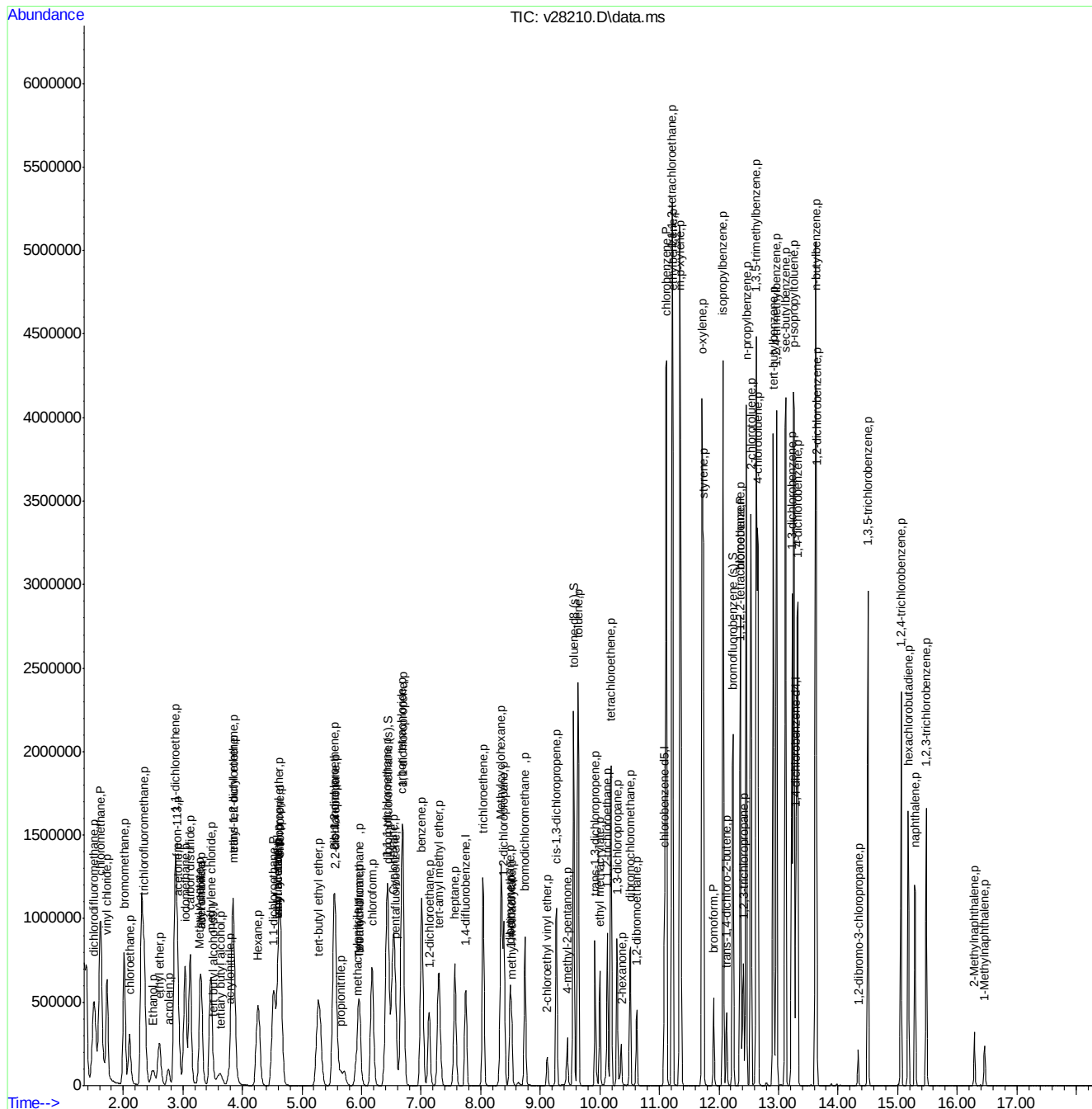
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.224	146	1074819	103.24	ug/L	99
94)	p-isopropyltoluene	13.257	119	2163618	104.92	ug/L	98
95)	1,4-dichlorobenzene	13.319	146	1008895	103.27	ug/L	100
96)	1,2-dichlorobenzene	13.636	146	989927	101.91	ug/L	99
97)	n-butylbenzene	13.621	91	1879008	105.06	ug/L	100
98)	1,2-dibromo-3-chloropr...	14.338	75	45862	109.84	ug/L	80
99)	1,3,5-trichlorobenzene	14.502	180	761511	104.80	ug/L	98
100)	1,2,4-trichlorobenzene	15.058	180	600556	107.51	ug/L	98
101)	hexachlorobutadiene	15.179	225	259406	102.16	ug/L	93
102)	naphthalene	15.291	128	824764	116.41	ug/L	100
103)	1,2,3-trichlorobenzene	15.481	180	448276	114.55	ug/L	98
104)	2-Methylnaphthalene	16.291	142	135245	84.10	ug/L	99
105)	1-Methylnaphthalene	16.461	142	103239	77.70	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28210.D
Acq On : 26 Feb 2014 5:46 pm
Operator : amym
Sample : ic1058-100
Misc : MS31132,MSV1058,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 08:11:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



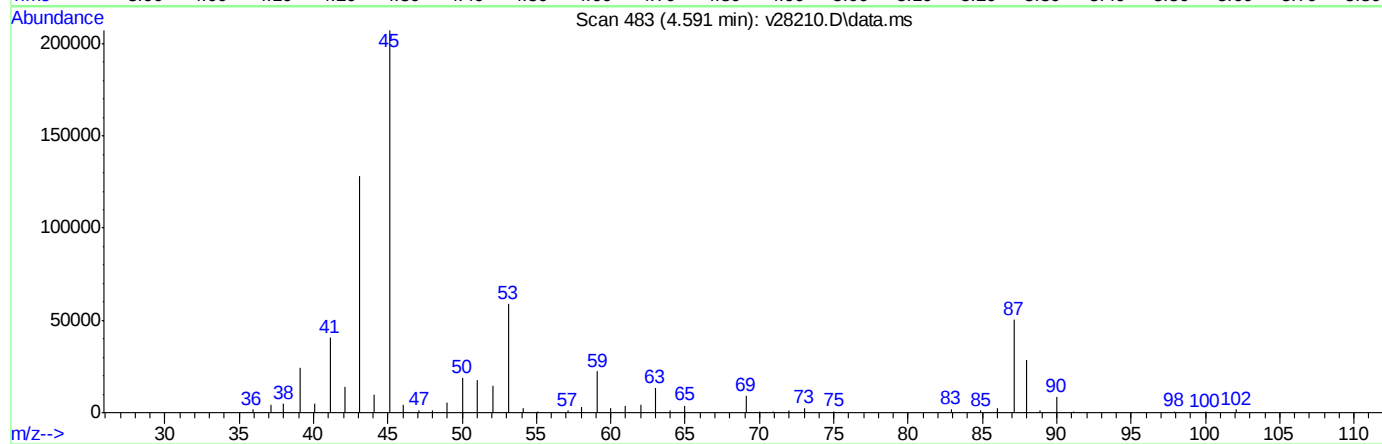
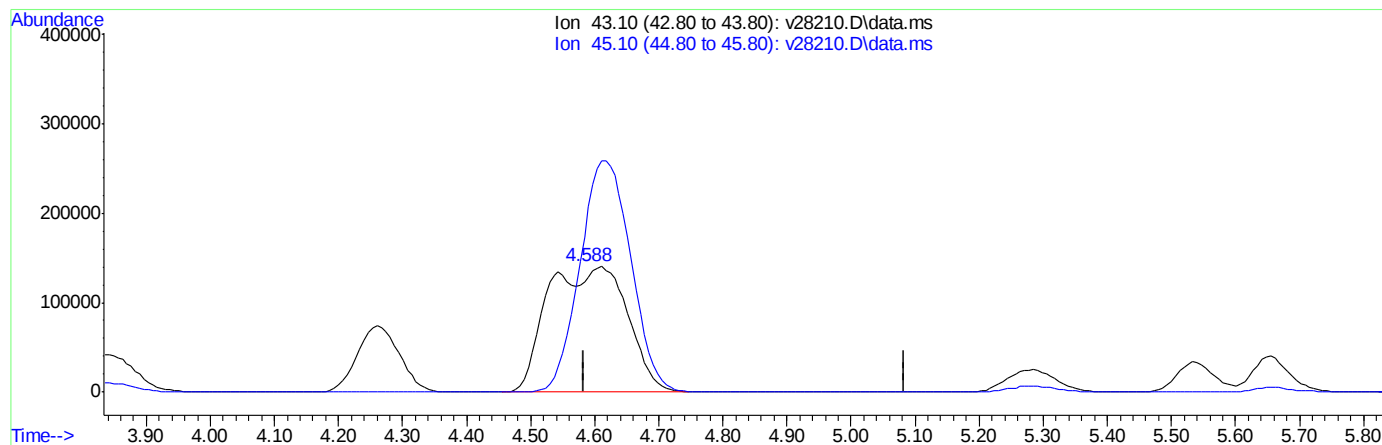
v140226w.m Fri Feb 28 09:55:09 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28210.D
Acq On : 26 Feb 2014 5:46 pm
Operator : amym
Sample : ic1058-100
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 07:59:43 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.591min (+0.007) 101.83ug/L m

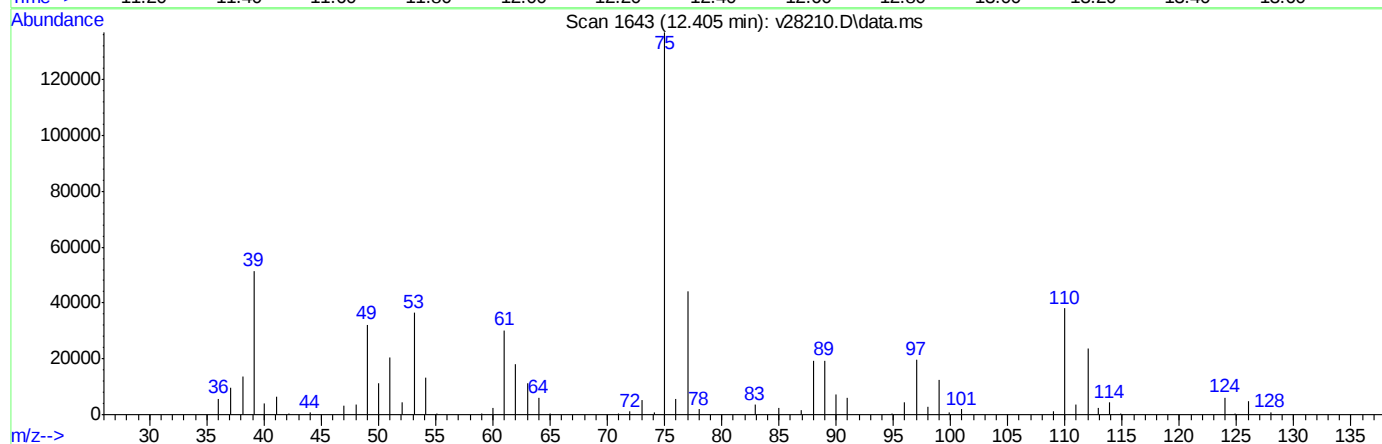
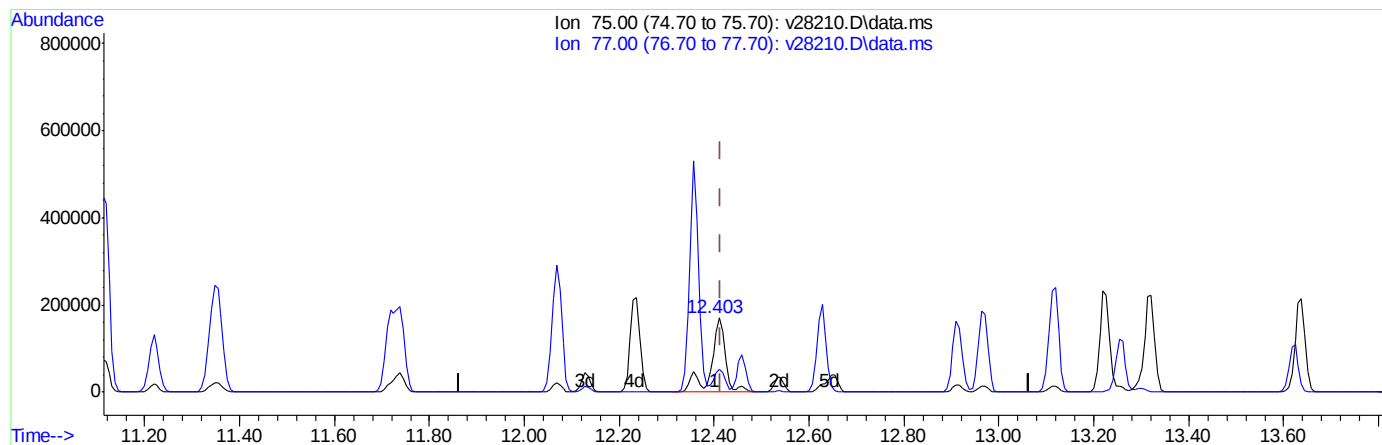
response 1218235

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
Data File : v28210.D
Acq On : 26 Feb 2014 5:46 pm
Operator : amym
Sample : ic1058-100
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 07:59:43 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.403min (-0.011) 131.40ug/L

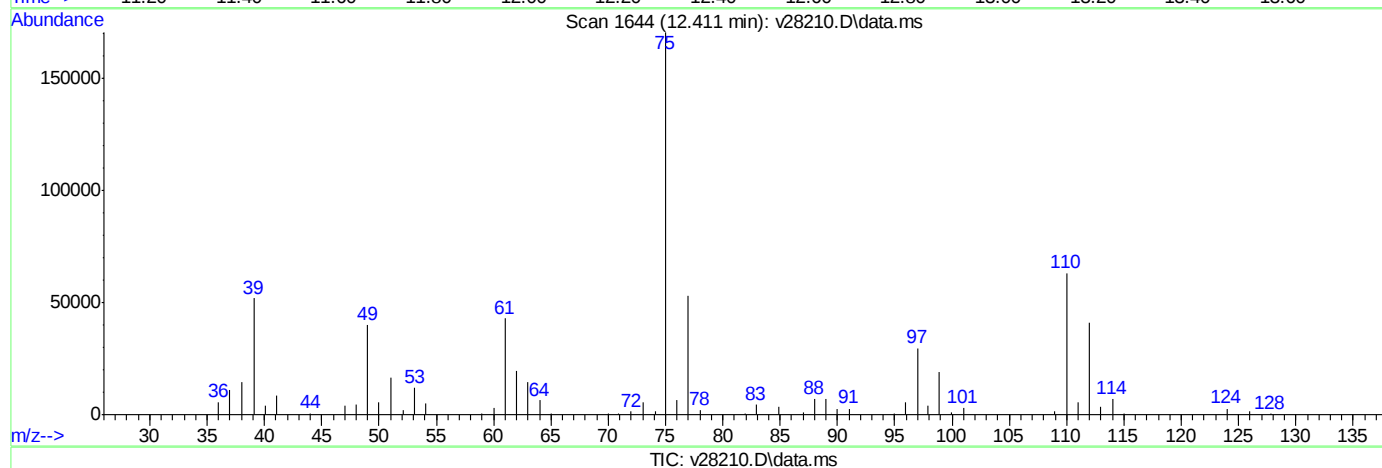
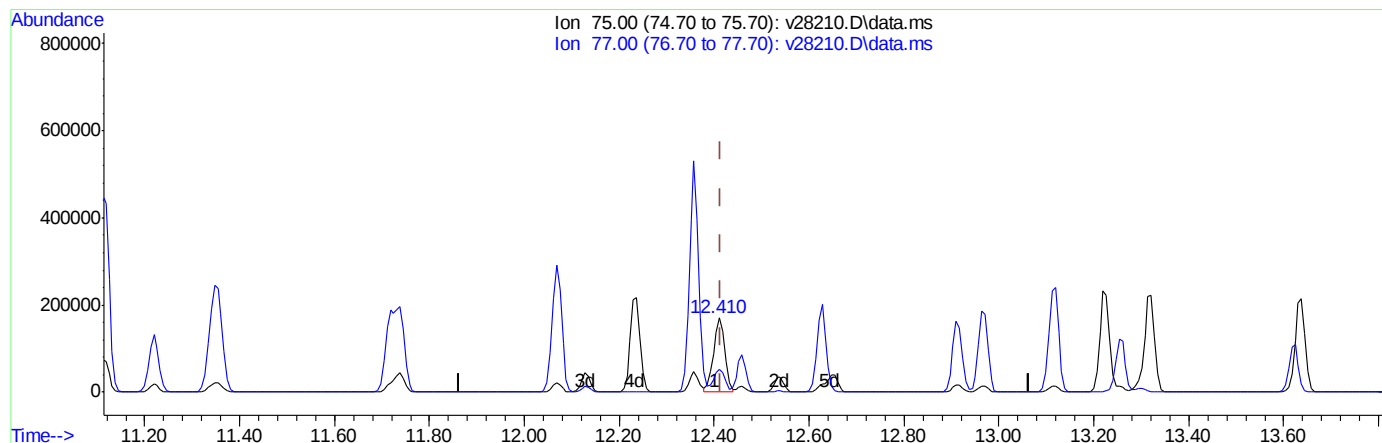
response 365936

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	32.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28210.D
Acq On : 26 Feb 2014 5:46 pm
Operator : amym
Sample : ic1058-100
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 27 07:59:43 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.411min (-0.003) 101.15ug/L m

response 281704

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	31.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28211.D
 Acq On : 26 Feb 2014 6:12 pm
 Operator : amym
 Sample : ic1058-200
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 08:13:06 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.514	65	69118	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.569	168	457001	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.749	114	652442	50.00	ug/L	0.00
66) chlorobenzene-d5	11.085	82	317432	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.297	152	336215	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.449	113	1291928	207.42	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	414.84%#		
60) toluene-d8 (s)	9.559	98	3528122	216.81	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	433.62%#		
82) bromofluorobenzene (s)	12.233	95	1377437	206.87	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	413.74%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.626	59	374328	2244.06	ug/L	# 55
3) Ethanol	2.501	45	524095	19491.00	ug/L	# 100
5) dichlorodifluoromethane	1.511	85	2616193	187.48	ug/L	99
6) chloromethane	1.621	50	1964795	197.54	ug/L	95
7) vinyl chloride	1.727	62	1861746	196.19	ug/L	99
8) bromomethane	2.015	96	1482051	190.63	ug/L	99
9) chloroethane	2.108	64	812509	192.01	ug/L	100
10) ethyl ether	2.610	59	641978	203.32	ug/L	95
11) acetonitrile	3.300	41	1729542	213.03	ug/L	88
12) trichlorofluoromethane	2.344	101	2994627	188.69	ug/L	97
13) freon-113	2.899	101	1598404	202.78	ug/L	98
14) acrolein	2.758	56	294337	1009.54	ug/L	98
15) 1,1-dichloroethene	2.870	96	1204072	205.43	ug/L	91
16) acetone	2.909	58	65280	193.89	ug/L	# 46
17) Methyl Acetate	3.286	43	385831	202.73	ug/L	95
18) methylene chloride	3.468	84	1136568	199.70	ug/L	89
19) methyl tert butyl ether	3.851	73	2292460	215.84	ug/L	98
20) acrylonitrile	3.787	53	206898	206.84	ug/L	99
21) allyl chloride	3.300	41	1729542	212.89	ug/L	90
22) trans-1,2-dichloroethene	3.842	96	1186966	205.87	ug/L	93
23) iodomethane	3.037	142	2961322	202.73	ug/L	91
24) carbon disulfide	3.121	76	4077645	205.80	ug/L	100
25) propionitrile	5.652	54	63342	220.36	ug/L	100
26) vinyl acetate	4.587	43	2804260	212.65	ug/L	91
27) chloroprene	4.633	53	1629619	209.63	ug/L	85
28) di-isopropyl ether	4.617	45	3254505	209.51	ug/L	91
29) methacrylonitrile	5.926	41	350576	213.20	ug/L	89
30) 2-butanone	5.542	72	63794	206.05	ug/L	# 71
31) Hexane	4.263	41	1075710	210.96	ug/L	# 76
32) 1,1-dichloroethane	4.521	63	2074051	208.31	ug/L	99
33) tert-butyl ethyl ether	5.284	59	2541041	220.98	ug/L	98
34) isobutyl alcohol	4.587	43	2804510	1063.36	ug/L	72
35) 2,2-dichloropropane	5.558	77	1809941	241.03	ug/L	92
36) cis-1,2-dichloroethene	5.542	96	1174308	213.62	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28211.D
 Acq On : 26 Feb 2014 6:12 pm
 Operator : amym
 Sample : ic1058-200
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 08:13:06 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.584	43	2803221m	212.40	ug/L	
38) bromochloromethane	5.961	128	548219	211.33	ug/L	97
39) chloroform	6.179	83	2262760	205.66	ug/L	100
41) Tetrahydrofuran	5.968	42	120423	215.51	ug/L	89
42) 1,1,1-trichloroethane	6.424	97	2472464	214.10	ug/L	98
44) Cyclohexane	6.529	56	1660791	205.53	ug/L	99
45) carbon tetrachloride	6.677	117	2432190	213.22	ug/L	100
46) 1,1-dichloropropene	6.693	75	1464490	210.17	ug/L	97
47) benzene	7.011	78	3468797	213.42	ug/L	99
48) 1,2-dichloroethane	7.134	62	1371111	198.28	ug/L	96
49) tert-amyl methyl ether	7.299	73	1792602	228.18	ug/L	94
50) heptane	7.567	43	1018693	215.49	ug/L	90
51) trichloroethene	8.041	95	1143102	212.00	ug/L	97
52) 1,2-dichloropropane	8.389	63	876274	212.92	ug/L	100
53) dibromomethane	8.492	93	520856	202.86	ug/L	90
54) bromodichloromethane	8.743	83	1437129	216.47	ug/L	99
55) Methylcyclohexane	8.345	83	1577819	217.22	ug/L	96
56) 2-chloroethyl vinyl ether	9.118	63	164288	232.50	ug/L	99
57) methyl methacrylate	8.521	69	302930	225.33	ug/L	81
58) 1,4-dioxane	8.502	88	22243	1173.89	ug/L	94
59) cis-1,3-dichloropropene	9.270	75	1356315	237.35	ug/L	96
61) 4-methyl-2-pentanone	9.453	43	464294	220.96	ug/L	89
62) toluene	9.635	92	2295828	218.10	ug/L	97
63) trans-1,3-dichloropropene	9.921	75	1037491	251.95	ug/L	93
64) 1,1,2-trichloroethane	10.128	83	495641	211.16	ug/L	99
65) ethyl methacrylate	10.000	69	704996	224.18	ug/L	87
67) tetrachloroethene	10.187	166	1196229	218.76	ug/L	96
68) 1,3-dichloropropane	10.289	76	952576	210.49	ug/L	99
69) dibromochloromethane	10.509	129	976583	229.30	ug/L	99
70) 1,2-dibromoethane	10.618	107	615474	216.19	ug/L	99
71) 2-hexanone	10.359	43	305990	219.32	ug/L	84
72) chlorobenzene	11.115	112	2845997	216.22	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.215	131	1281139	225.89	ug/L	96
74) ethylbenzene	11.220	91	4967743	215.74	ug/L	95
75) m,p-xylene	11.350	106	3673773	439.18	ug/L	89
76) o-xylene	11.717	106	1936673	223.36	ug/L	88
77) styrene	11.738	104	2798616	218.46	ug/L	92
78) bromoform	11.912	173	496919	238.68	ug/L	100
79) trans-1,4-dichloro-2-b...	12.128	53	203771	243.92	ug/L	77
81) isopropylbenzene	12.069	105	5729230	217.15	ug/L	98
83) bromobenzene	12.359	156	1190884	210.66	ug/L	92
84) 1,1,2,2-tetrachloroethane	12.364	83	663618	210.14	ug/L	99
85) 1,2,3-trichloropropane	12.411	75	639447m	203.95	ug/L	
86) n-propylbenzene	12.458	91	6213639	211.33	ug/L	97
87) 2-chlorotoluene	12.537	91	3874935	209.05	ug/L	100
88) 4-chlorotoluene	12.647	91	4276724	209.21	ug/L	96
89) 1,3,5-trimethylbenzene	12.627	105	4935314	220.92	ug/L	98
90) tert-butylbenzene	12.912	91	2916446	220.67	ug/L	95
91) 1,2,4-trimethylbenzene	12.967	105	4852524	217.10	ug/L	96
92) sec-butylbenzene	13.116	105	5962575	225.69	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28211.D
Acq On : 26 Feb 2014 6:12 pm
Operator : amym
Sample : ic1058-200
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 08:13:06 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration

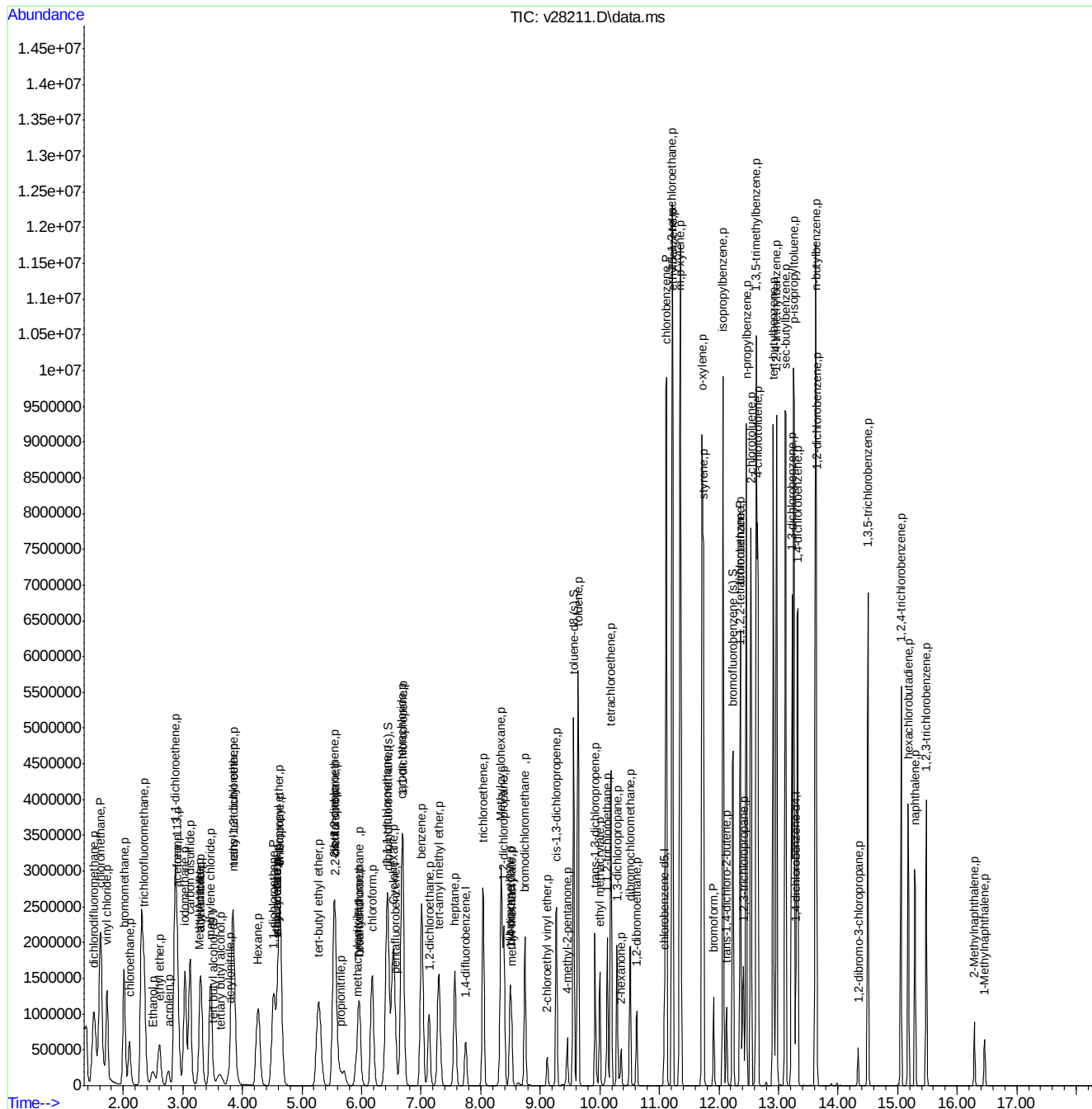
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.224	146	2543134	216.98	ug/L	99
94)	p-isopropyltoluene	13.256	119	5229455	225.25	ug/L	98
95)	1,4-dichlorobenzene	13.319	146	2404403	218.62	ug/L	99
96)	1,2-dichlorobenzene	13.636	146	2380392	217.67	ug/L	98
97)	n-butylbenzene	13.621	91	4415708	219.31	ug/L	98
98)	1,2-dibromo-3-chloropr...	14.337	75	113119	240.64	ug/L	86
99)	1,3,5-trichlorobenzene	14.502	180	1849782	226.12	ug/L	100
100)	1,2,4-trichlorobenzene	15.057	180	1456928	231.67	ug/L	99
101)	hexachlorobutadiene	15.179	225	622369	217.72	ug/L	94
102)	naphthalene	15.291	128	2057972	258.01	ug/L	100
103)	1,2,3-trichlorobenzene	15.480	180	1075298	244.07	ug/L	100
104)	2-Methylnaphthalene	16.290	142	377084	208.28	ug/L	98
105)	1-Methylnaphthalene	16.461	142	277716	185.66	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28211.D
Acq On : 26 Feb 2014 6:12 pm
Operator : amym
Sample : ic1058-200
Misc : MS31132,MSV1058,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 08:13:06 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



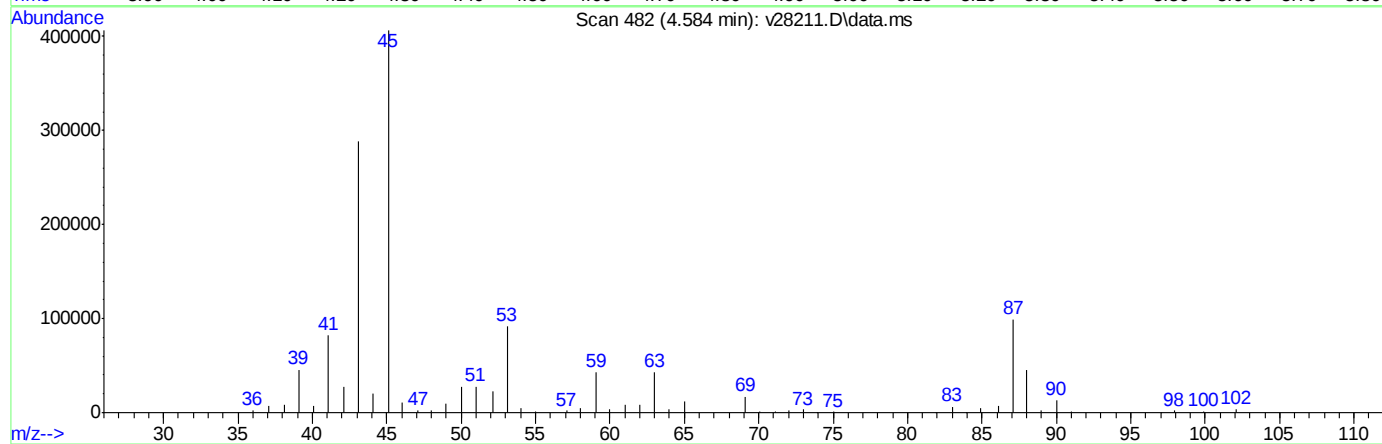
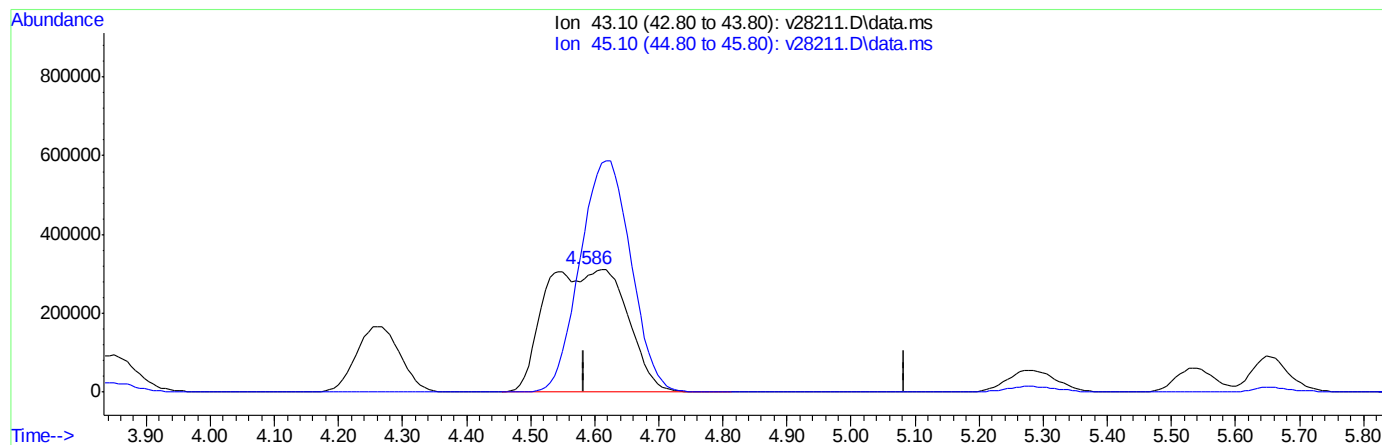
v140226w.m Fri Feb 28 09:55:12 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28211.D
Acq On : 26 Feb 2014 6:12 pm
Operator : amym
Sample : ic1058-200
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 07:59:46 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.584min (-0.000) 212.40ug/L m

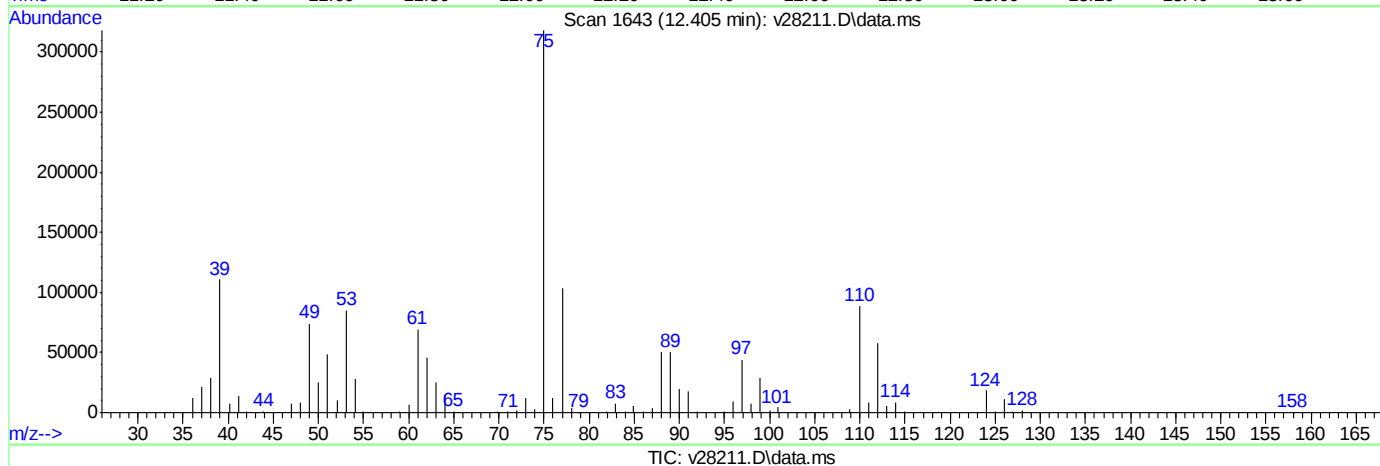
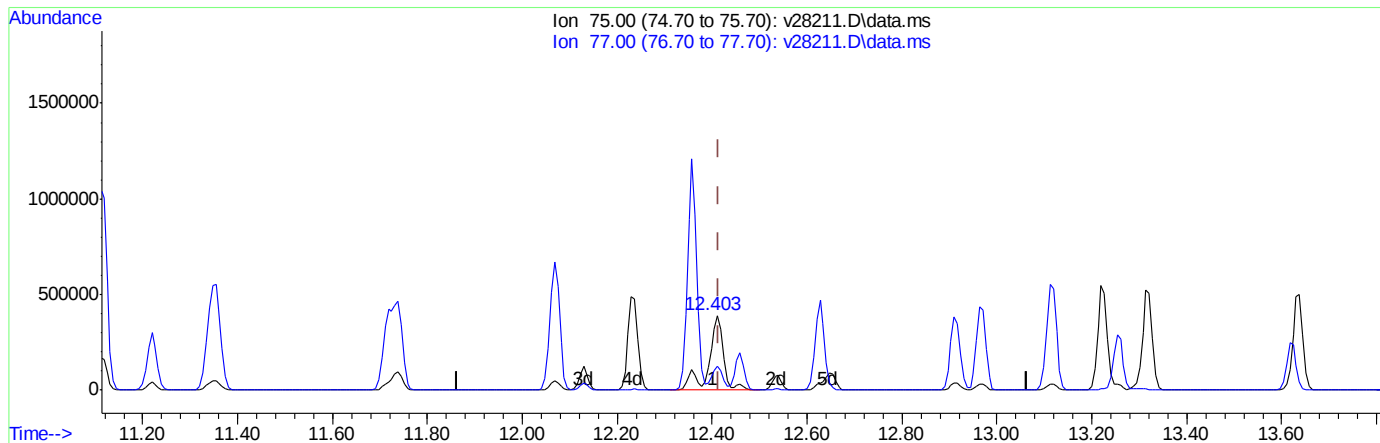
response 2803221

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
Data File : v28211.D
Acq On : 26 Feb 2014 6:12 pm
Operator : amym
Sample : ic1058-200
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 07:59:46 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.403min (-0.011) 270.00ug/L

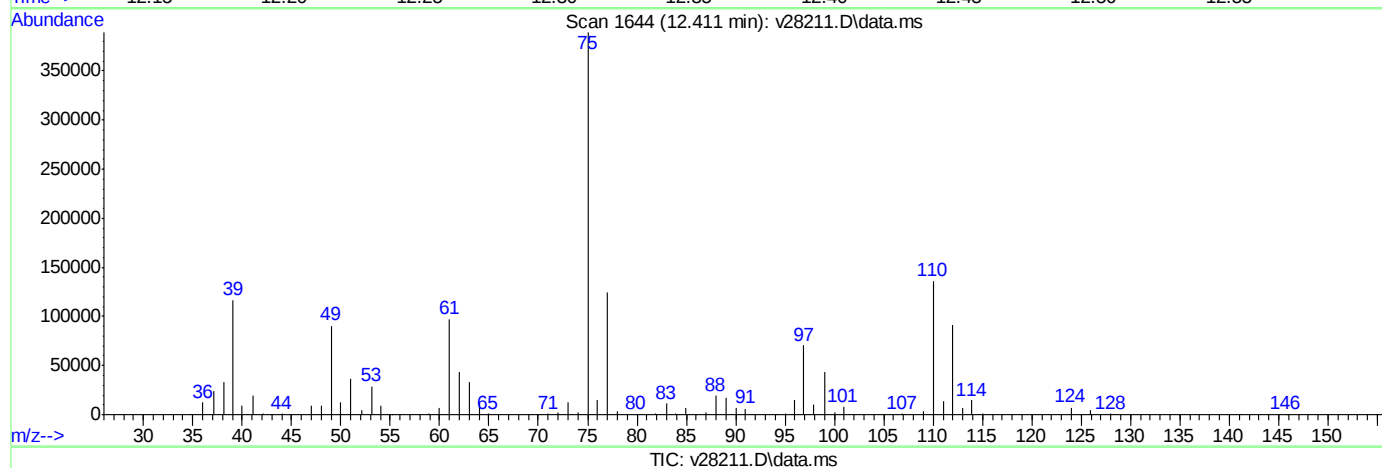
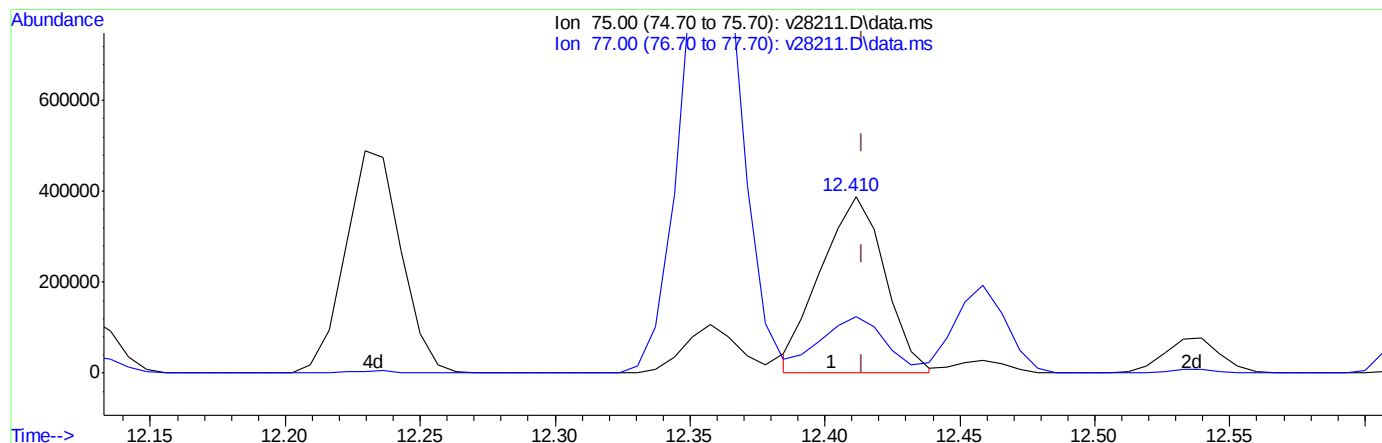
response 846539

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	32.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28211.D
Acq On : 26 Feb 2014 6:12 pm
Operator : amym
Sample : ic1058-200
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 07:59:46 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.411min (-0.003) 203.95ug/L m

response 639447

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	32.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28212.D
 Acq On : 26 Feb 2014 6:37 pm
 Operator : amym
 Sample : ic1058-400
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:14:44 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	77061	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.564	168	490488	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.746	114	720236	50.00	ug/L	0.00
66) chlorobenzene-d5	11.085	82	344484	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.297	152	406320	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.444	113	2804942	419.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	839.18%#		
60) toluene-d8 (s)	9.558	98	7800718	434.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	868.52%#		
82) bromofluorobenzene (s)	12.233	95	3080189	382.78	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	765.56%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.622	59	868998	4672.60	ug/L	# 63
3) Ethanol	2.495	45	1137182m	37932.43	ug/L	
5) dichlorodifluoromethane	1.499	85	5332094	356.02	ug/L	98
6) chloromethane	1.612	50	4127605	386.66	ug/L	96
7) vinyl chloride	1.717	62	3969371	389.74	ug/L	99
8) bromomethane	2.002	96	3010849	360.83	ug/L	99
9) chloroethane	2.095	64	1707082	375.87	ug/L	100
10) ethyl ether	2.601	59	1361849	401.87	ug/L	96
11) acetonitrile	3.290	41	3763755	431.94	ug/L	88
12) trichlorofluoromethane	2.333	101	6048163	355.07	ug/L	99
13) freon-113	2.888	101	3280504	387.76	ug/L	97
14) acrolein	2.748	56	648140	2071.27	ug/L	99
15) 1,1-dichloroethene	2.858	96	2518186	400.30	ug/L	92
16) acetone	2.899	58	115703	320.19	ug/L	# 49
17) Methyl Acetate	3.277	43	833833	408.22	ug/L	97
18) methylene chloride	3.458	84	2485345	406.86	ug/L	92
19) methyl tert butyl ether	3.848	73	5188936	455.20	ug/L	97
20) acrylonitrile	3.778	53	447860	417.17	ug/L	96
21) allyl chloride	3.290	41	3765667	431.88	ug/L	92
22) trans-1,2-dichloroethene	3.833	96	2564558	414.44	ug/L	96
23) iodomethane	3.025	142	6394198	407.86	ug/L	96
24) carbon disulfide	3.109	76	8887229	417.91	ug/L	100
25) propionitrile	5.645	54	140532	455.52	ug/L	100
26) vinyl acetate	4.578	43	6145210	434.19	ug/L	91
27) chloroprene	4.625	53	3455232	414.12	ug/L	90
28) di-isopropyl ether	4.609	45	7156614	429.25	ug/L	92
29) methacrylonitrile	5.920	41	767613	434.94	ug/L	89
30) 2-butanone	5.536	72	131972	397.16	ug/L	95
31) Hexane	4.254	41	2194923	401.06	ug/L	# 77
32) 1,1-dichloroethane	4.512	63	4498709	420.99	ug/L	99
33) tert-butyl ethyl ether	5.278	59	5731931	464.45	ug/L	99
34) isobutyl alcohol	4.578	43	6145210	2170.94	ug/L	76
35) 2,2-dichloropropane	5.551	77	4039152	501.17	ug/L	94
36) cis-1,2-dichloroethene	5.535	96	2565001	434.74	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28212.D
 Acq On : 26 Feb 2014 6:37 pm
 Operator : amym
 Sample : ic1058-400
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:14:44 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.577	43	6132910m	432.96	ug/L	
38) bromochloromethane	5.954	128	1199900	430.97	ug/L	97
39) chloroform	6.173	83	4870990	412.48	ug/L	99
41) Tetrahydrofuran	5.961	42	265019	441.90	ug/L	89
42) 1,1,1-trichloroethane	6.418	97	5313619	428.71	ug/L	99
44) Cyclohexane	6.523	56	3561374	399.24	ug/L	98
45) carbon tetrachloride	6.672	117	5097895	404.84	ug/L	99
46) 1,1-dichloropropene	6.689	75	3174355	412.68	ug/L	97
47) benzene	7.007	78	7847668	437.39	ug/L	99
48) 1,2-dichloroethane	7.130	62	2892503	378.92	ug/L	97
49) tert-amyl methyl ether	7.295	73	4122874	475.40	ug/L	95
50) heptane	7.564	43	2102224	402.84	ug/L	91
51) trichloroethene	8.038	95	2514390	422.43	ug/L	97
52) 1,2-dichloropropane	8.387	63	1943727	427.83	ug/L	100
53) dibromomethane	8.490	93	1123690	396.46	ug/L	93
54) bromodichloromethane	8.741	83	3108319	424.13	ug/L	100
55) Methylcyclohexane	8.342	83	3399043	423.90	ug/L	98
56) 2-chloroethyl vinyl ether	9.116	63	388673	498.27	ug/L	99
57) methyl methacrylate	8.518	69	674756	454.66	ug/L	84
58) 1,4-dioxane	8.500	88	50819	2429.56	ug/L	97
59) cis-1,3-dichloropropene	9.269	75	3021560	478.99	ug/L	95
61) 4-methyl-2-pentanone	9.451	43	1028716	443.49	ug/L	91
62) toluene	9.634	92	5080747	437.22	ug/L	97
63) trans-1,3-dichloropropene	9.920	75	2332457	513.11	ug/L	94
64) 1,1,2-trichloroethane	10.127	83	1087356	419.65	ug/L	100
65) ethyl methacrylate	9.999	69	1542833	444.43	ug/L	87
67) tetrachloroethene	10.186	166	2634340	443.93	ug/L	98
68) 1,3-dichloropropane	10.288	76	2087726	425.10	ug/L	99
69) dibromochloromethane	10.508	129	2163517	468.09	ug/L	99
70) 1,2-dibromoethane	10.617	107	1351052	437.30	ug/L	99
71) 2-hexanone	10.358	43	626409	413.73	ug/L	86
72) chlorobenzene	11.114	112	6308867	441.68	ug/L	100
73) 1,1,1,2-tetrachloroethane	11.215	131	2871684	466.58	ug/L	98
74) ethylbenzene	11.220	91	11014211	440.77	ug/L	96
75) m,p-xylene	11.351	106	8326820	917.26	ug/L	89
76) o-xylene	11.718	106	4466823	474.71	ug/L	90
77) styrene	11.738	104	6433037	462.73	ug/L	96
78) bromoform	11.911	173	1160990	513.86	ug/L	99
79) trans-1,4-dichloro-2-b...	12.128	53	451021	497.48	ug/L	83
81) isopropylbenzene	12.069	105	12692381	398.07	ug/L	96
83) bromobenzene	12.359	156	2758326	403.75	ug/L	94
84) 1,1,2,2-tetrachloroethane	12.364	83	1504646	394.26	ug/L	99
85) 1,2,3-trichloropropane	12.411	75	1504522m	397.06	ug/L	
86) n-propylbenzene	12.458	91	13217340	371.97	ug/L	91
87) 2-chlorotoluene	12.537	91	8934441	398.85	ug/L	99
88) 4-chlorotoluene	12.647	91	9917501	401.44	ug/L	97
89) 1,3,5-trimethylbenzene	12.627	105	11527411	426.97	ug/L	100
90) tert-butylbenzene	12.913	91	6954424	435.41	ug/L	97
91) 1,2,4-trimethylbenzene	12.967	105	11599148	429.40	ug/L	100
92) sec-butylbenzene	13.116	105	13203770	413.54	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
 Data File : v28212.D
 Acq On : 26 Feb 2014 6:37 pm
 Operator : amym
 Sample : ic1058-400
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:14:44 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 07:59:03 2014
 Response via : Initial Calibration

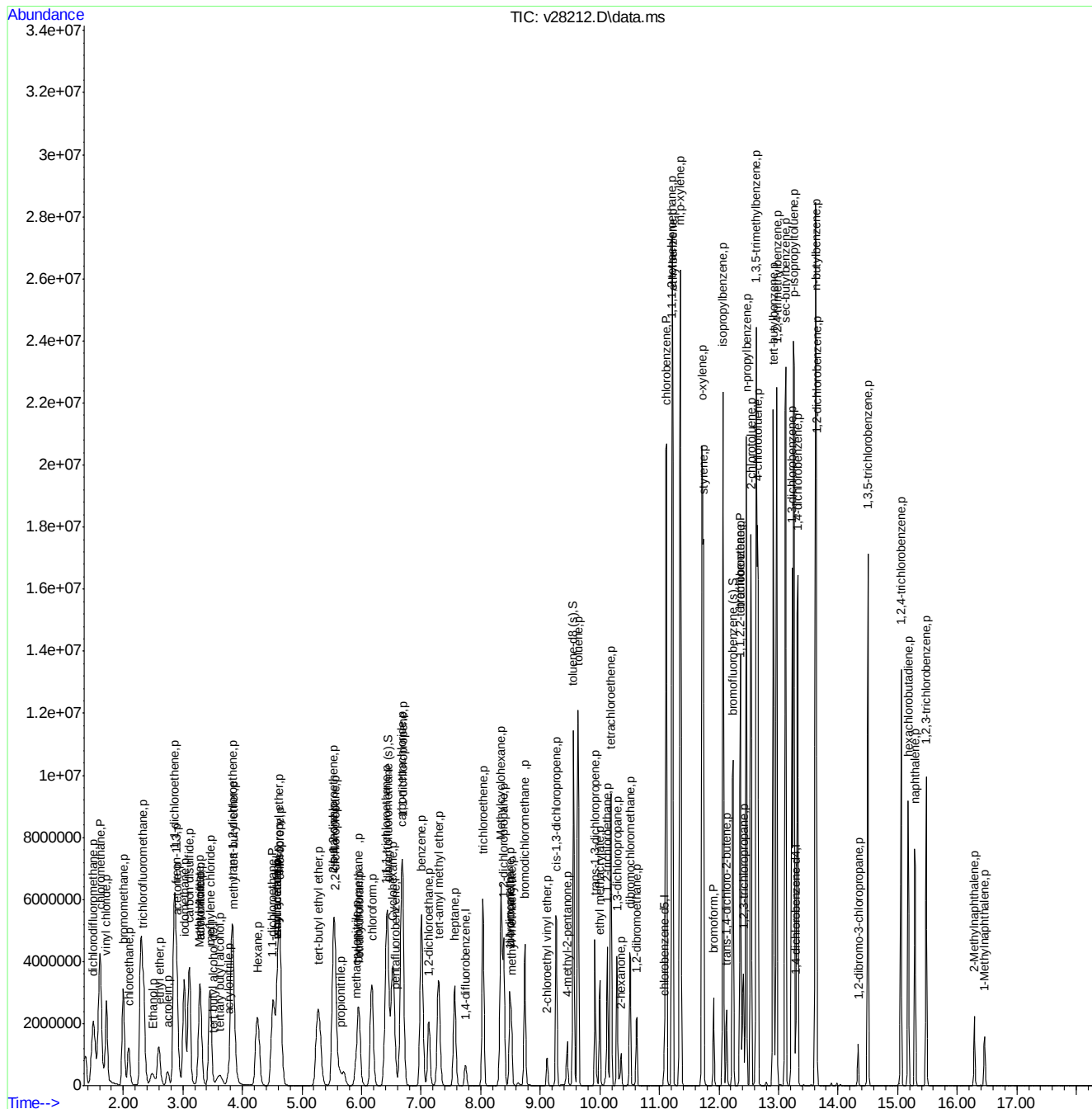
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.224	146	6169911	435.59	ug/L	99
94) p-isopropyltoluene	13.257	119	12332970	439.56	ug/L	95
95) 1,4-dichlorobenzene	13.319	146	5999372	451.37	ug/L	98
96) 1,2-dichlorobenzene	13.636	146	5901786	446.56	ug/L	99
97) n-butylbenzene	13.621	91	10638505	437.20	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.336	75	279803	492.52	ug/L	91
99) 1,3,5-trichlorobenzene	14.502	180	4651383	470.48	ug/L	100
100) 1,2,4-trichlorobenzene	15.057	180	3659644	481.52	ug/L	98
101) hexachlorobutadiene	15.178	225	1537914	445.18	ug/L	95
102) naphthalene	15.291	128	5242813	543.88	ug/L	100
103) 1,2,3-trichlorobenzene	15.480	180	2727499	512.27	ug/L	99
104) 2-Methylnaphthalene	16.290	142	997133	455.74	ug/L	99
105) 1-Methylnaphthalene	16.460	142	692807	383.24	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28212.D
Acq On : 26 Feb 2014 6:37 pm
Operator : amym
Sample : ic1058-400
Misc : MS31132,MSV1058,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 08:14:44 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 09:55:18 2014

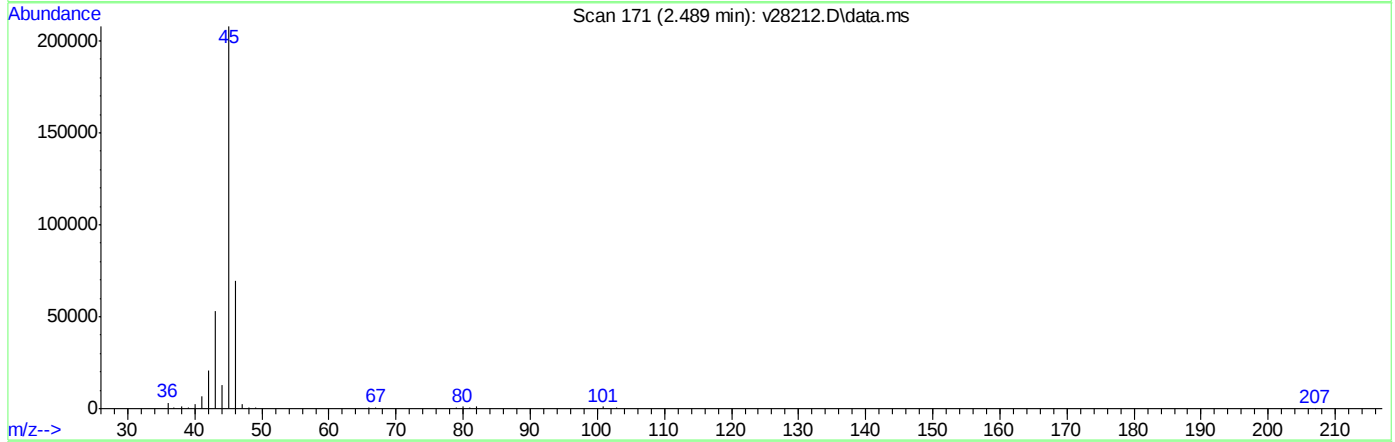
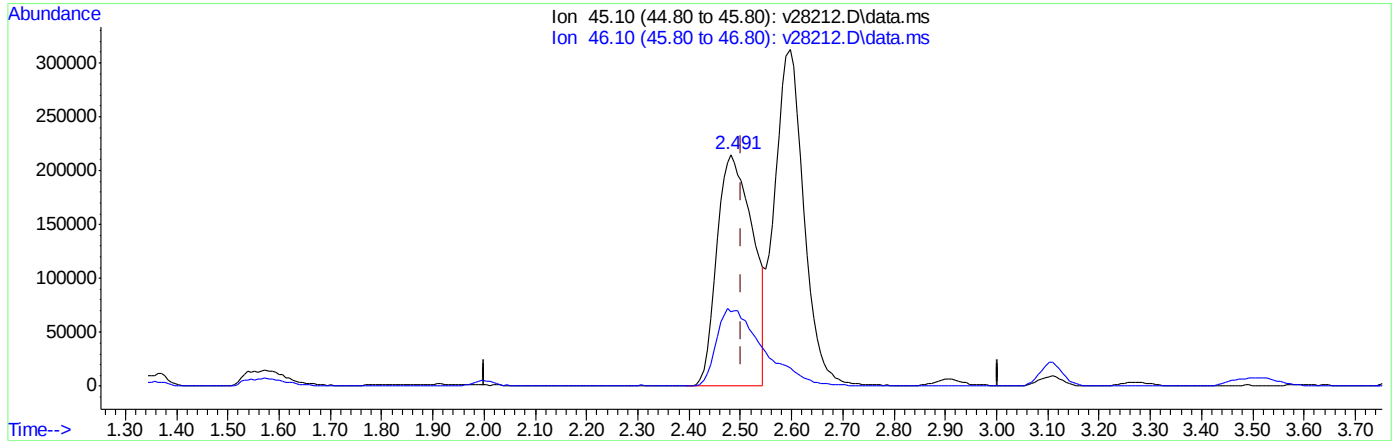
Page: 4

7.6.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28212.D
Acq On : 26 Feb 2014 6:37 pm
Operator : amym
Sample : ic1058-400
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 07:59:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(3) Ethanol (p)

2.491min (-0.011) 34816.67ug/L

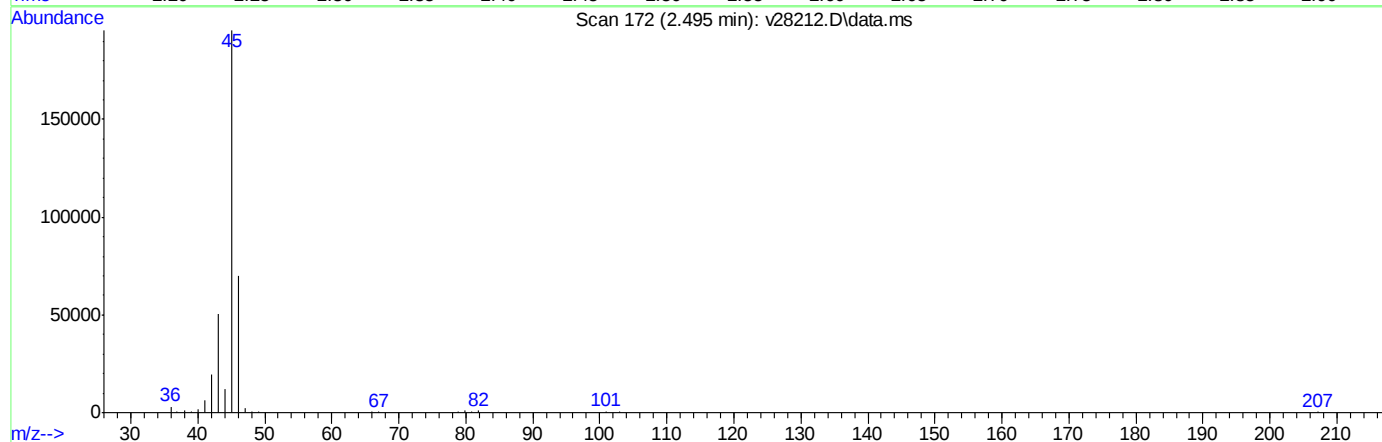
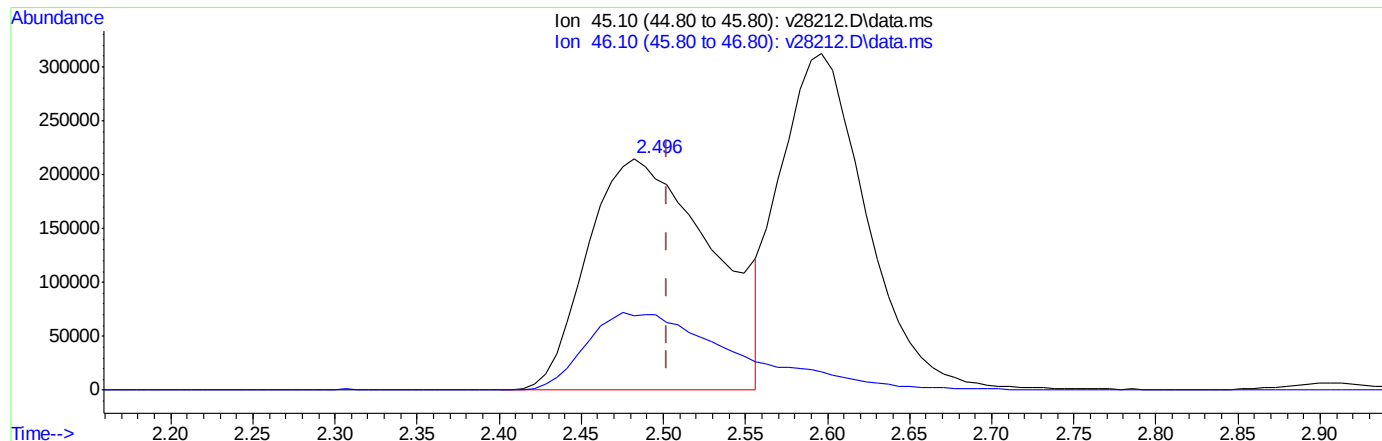
response 1043774

Ion	Exp%	Act%
45.10	100	100
46.10	0.00	44.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28212.D
Acq On : 26 Feb 2014 6:37 pm
Operator : amym
Sample : ic1058-400
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 07:59:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(3) Ethanol (p)

2.495min (-0.007) 37932.43ug/L m

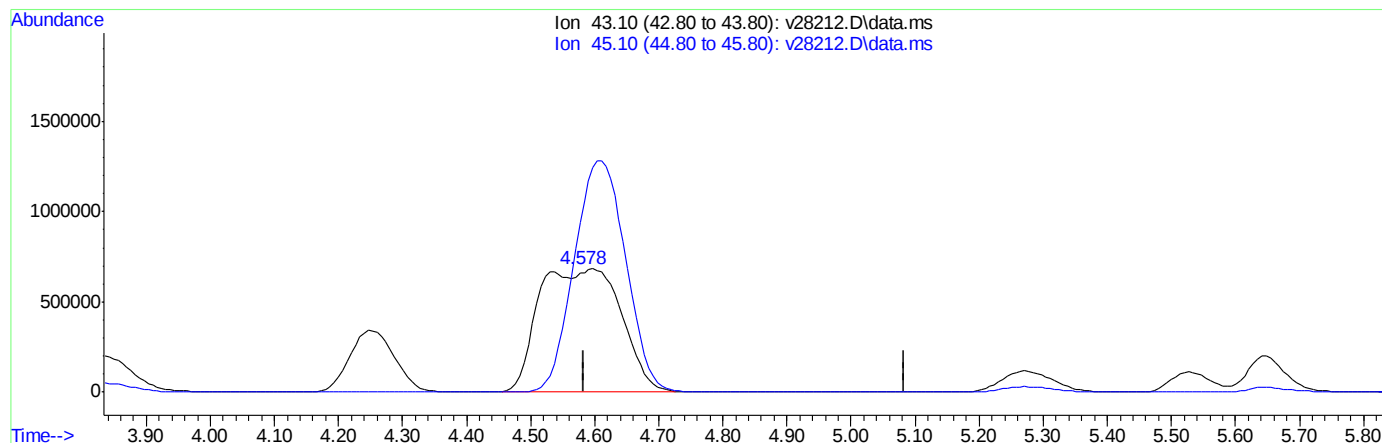
response 1137182

Ion	Exp%	Act%
45.10	100	100
46.10	0.00	40.38#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28212.D
Acq On : 26 Feb 2014 6:37 pm
Operator : amym
Sample : ic1058-400
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 07:59:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.577min (-0.007) 432.96ug/L m

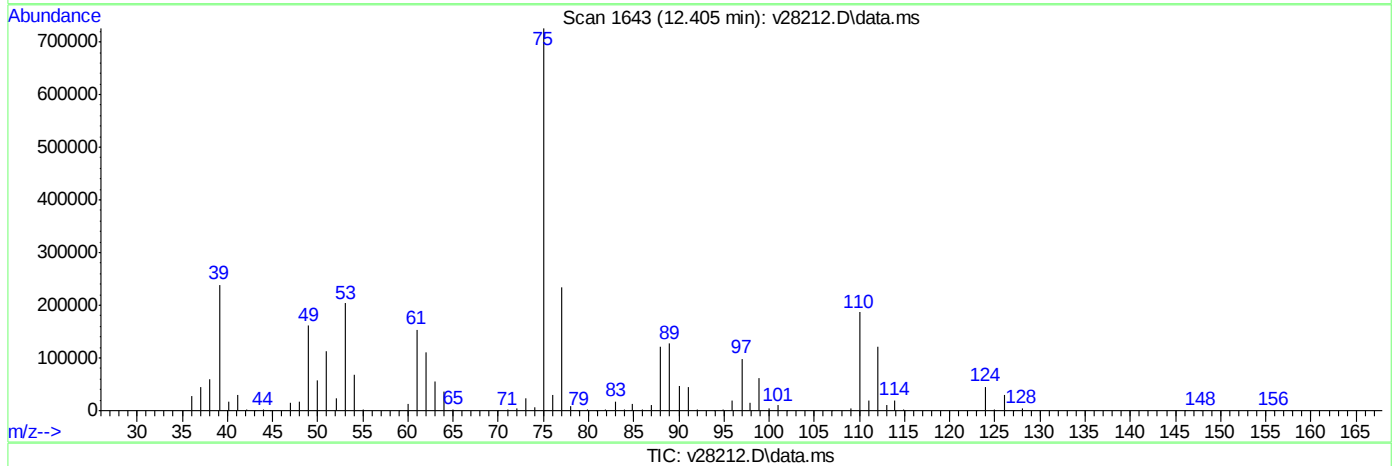
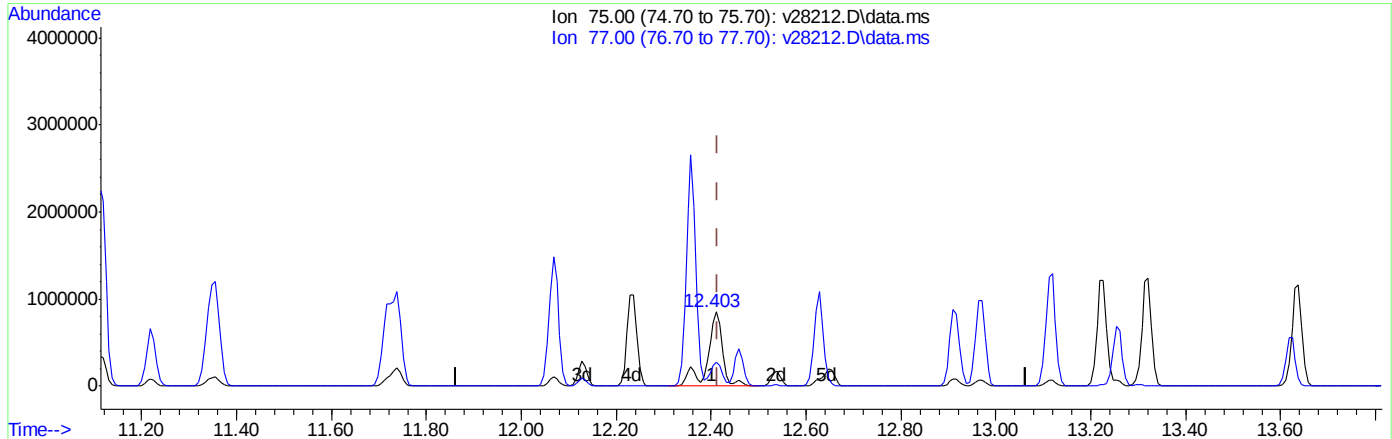
response 6132910

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140226\
Data File : v28212.D
Acq On : 26 Feb 2014 6:37 pm
Operator : amym
Sample : ic1058-400
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 07:59:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.403min (-0.011) 504.24ug/L

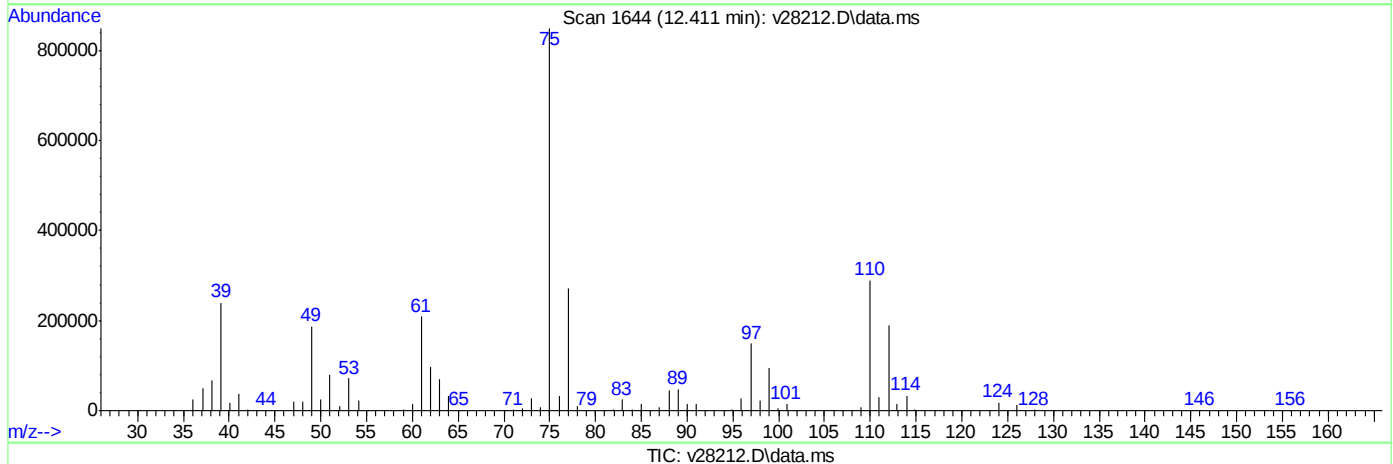
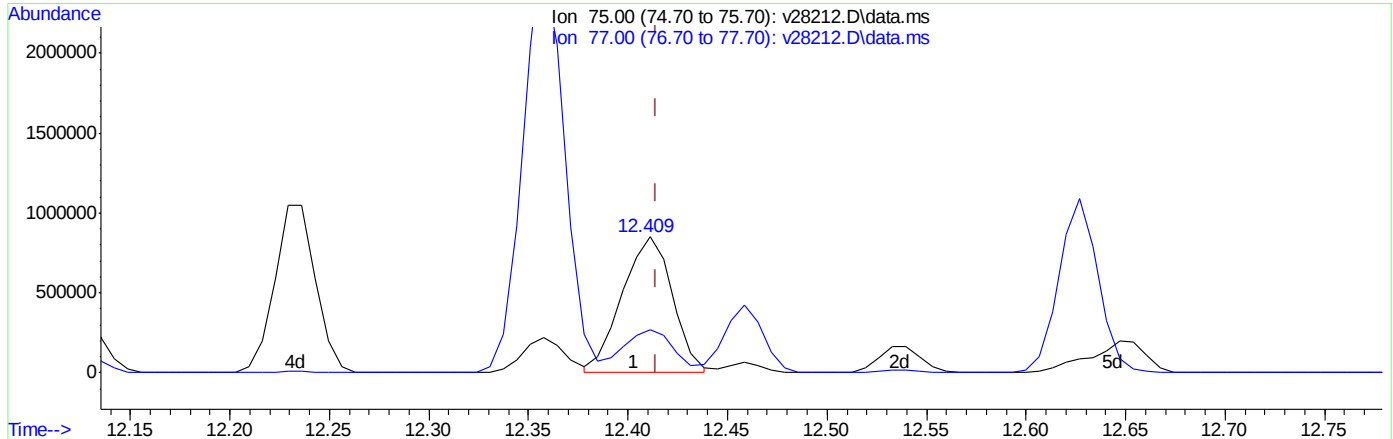
response 1910630

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	32.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140226\
Data File : v28212.D
Acq On : 26 Feb 2014 6:37 pm
Operator : amym
Sample : ic1058-400
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 27 07:59:49 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 07:59:03 2014
Response via : Initial Calibration



(85) 1,2,3-trichloropropane (p)

12.411min (-0.003) 397.06ug/L m

response 1504522

Ion	Exp%	Act%
75.00	100	100
77.00	32.20	31.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140227\
 Data File : v28222.D
 Acq On : 27 Feb 2014 11:27 am
 Operator : amym
 Sample : cc1058-50
 Misc : MS31132,MSV1058,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:16:53 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	58782	500.00	ug/L	# 0.01
4) pentafluorobenzene	6.578	168	407341	50.00	ug/L	0.01
43) 1,4-difluorobenzene	7.757	114	567923	50.00	ug/L	0.00
66) chlorobenzene-d5	11.092	82	268846	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.303	152	271652	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.458	113	233718	41.78	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.56%		
60) toluene-d8 (s)	9.566	98	623017	43.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.72%		
82) bromofluorobenzene (s)	12.239	95	254177	46.76	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.52%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.631	59	78597	537.52	ug/L	# 44
3) Ethanol	2.504	45	99220	4442.26	ug/L	# 100
5) dichlorodifluoromethane	1.511	85	656388	59.20	ug/L	98
6) chloromethane	1.619	50	441672	52.10	ug/L	95
7) vinyl chloride	1.727	62	396687	50.28	ug/L	99
8) bromomethane	2.019	96	326740	49.28	ug/L	100
9) chloroethane	2.114	64	206024	53.02	ug/L	97
10) ethyl ether	2.614	59	139578	47.49	ug/L	95
11) acetonitrile	3.307	41	374893	52.24	ug/L	84
12) trichlorofluoromethane	2.349	101	700184	55.57	ug/L	99
13) freon-113	2.905	101	345659	53.05	ug/L	97
14) acrolein	2.764	56	11498	45.31	ug/L	94
15) 1,1-dichloroethene	2.877	96	267101	51.40	ug/L	85
16) acetone	2.914	58	17451	59.23	ug/L	# 46
17) Methyl Acetate	3.292	43	93978	55.80	ug/L	96
18) methylene chloride	3.477	84	254720	48.10	ug/L	83
19) methyl tert butyl ether	3.853	73	470658	49.30	ug/L	96
20) acrylonitrile	3.791	53	70570	78.73	ug/L	90
21) allyl chloride	3.308	41	375069	52.27	ug/L	87
22) trans-1,2-dichloroethene	3.851	96	270504	50.33	ug/L	93
23) iodomethane	3.044	142	593900	43.90	ug/L	90
24) carbon disulfide	3.129	76	809595	45.55	ug/L	99
25) propionitrile	5.666	54	13217	49.71	ug/L	100
26) vinyl acetate	4.600	43	556880	46.85	ug/L	89
27) chloroprene	4.641	53	421546	62.77	ug/L	83
28) di-isopropyl ether	4.626	45	687621	49.42	ug/L	89
29) methacrylonitrile	5.937	41	73645	51.05	ug/L	94
30) 2-butanone	5.551	72	16017	59.72	ug/L	# 58
31) Hexane	4.271	41	219824	48.05	ug/L	# 73
32) 1,1-dichloroethane	4.530	63	457020	49.64	ug/L	99
33) tert-butyl ethyl ether	5.293	59	529910	51.93	ug/L	97
34) isobutyl alcohol	4.600	43	556880	235.43	ug/L	66
35) 2,2-dichloropropane	5.566	77	359605	46.59	ug/L	91
36) cis-1,2-dichloroethene	5.551	96	250620	49.49	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140227\
 Data File : v28222.D
 Acq On : 27 Feb 2014 11:27 am
 Operator : amym
 Sample : cc1058-50
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:16:53 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.597	43	556718m	46.54	ug/L	
38) bromochloromethane	5.971	128	119334	50.27	ug/L	96
39) chloroform	6.188	83	488716	47.92	ug/L	99
41) Tetrahydrofuran	5.977	42	23886	49.23	ug/L	92
42) 1,1,1-trichloroethane	6.433	97	518202	52.20	ug/L	96
44) Cyclohexane	6.539	56	342130	48.14	ug/L	95
45) carbon tetrachloride	6.688	117	505269	55.33	ug/L	100
46) 1,1-dichloropropene	6.702	75	308860	51.01	ug/L	94
47) benzene	7.020	78	727861	47.98	ug/L	100
48) 1,2-dichloroethane	7.144	62	311189	50.41	ug/L	95
49) tert-amyl methyl ether	7.308	73	342467	50.65	ug/L	92
50) heptane	7.576	43	205965	50.03	ug/L	88
51) trichloroethene	8.049	95	242781	49.31	ug/L	94
52) 1,2-dichloropropane	8.396	63	179834	49.95	ug/L	99
53) dibromomethane	8.500	93	114085	51.27	ug/L	89
54) bromodichloromethane	8.750	83	303173	52.47	ug/L	99
55) Methylcyclohexane	8.352	83	323888	50.41	ug/L	93
56) 2-chloroethyl vinyl ether	9.125	63	31690	45.90	ug/L	97
57) methyl methacrylate	8.529	69	57608	49.36	ug/L #	76
58) 1,4-dioxane	8.507	88	3941	220.80	ug/L	100
59) cis-1,3-dichloropropene	9.278	75	250996	47.43	ug/L	94
61) 4-methyl-2-pentanone	9.462	43	91289	51.01	ug/L	89
62) toluene	9.642	92	476256	51.34	ug/L	96
63) trans-1,3-dichloropropene	9.929	75	201865	60.05	ug/L	92
64) 1,1,2-trichloroethane	10.135	83	104102	50.82	ug/L	96
65) ethyl methacrylate	10.009	69	134673	50.02	ug/L	81
67) tetrachloroethene	10.194	166	247470	52.74	ug/L	95
68) 1,3-dichloropropane	10.296	76	204013	51.78	ug/L	97
69) dibromochloromethane	10.516	129	197848	52.29	ug/L	100
70) 1,2-dibromoethane	10.625	107	129298	53.91	ug/L	99
71) 2-hexanone	10.363	43	80596m	62.64	ug/L	
72) chlorobenzene	11.121	112	577527	48.98	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.221	131	265907	55.73	ug/L	96
74) ethylbenzene	11.226	91	1062434	53.06	ug/L	94
75) m,p-xylene	11.356	106	748190	103.99	ug/L	85
76) o-xylene	11.723	106	388274	52.48	ug/L	87
77) styrene	11.744	104	583869	53.79	ug/L	89
78) bromoform	11.918	173	95126	51.47	ug/L	99
79) trans-1,4-dichloro-2-b...	12.135	53	38731	47.17	ug/L #	66
81) isopropylbenzene	12.075	105	1136747	56.19	ug/L	98
83) bromobenzene	12.366	156	252546	54.86	ug/L	91
84) 1,1,2,2-tetrachloroethane	12.369	83	141826	55.05	ug/L	99
85) 1,2,3-trichloropropane	12.418	75	144126	54.29	ug/L	99
86) n-propylbenzene	12.463	91	1229640	53.92	ug/L	96
87) 2-chlorotoluene	12.542	91	789150	52.12	ug/L	97
88) 4-chlorotoluene	12.653	91	894371	53.24	ug/L	96
89) 1,3,5-trimethylbenzene	12.632	105	986742	56.45	ug/L	96
90) tert-butylbenzene	12.919	91	572797	56.95	ug/L	90
91) 1,2,4-trimethylbenzene	12.972	105	972161	54.83	ug/L	96
92) sec-butylbenzene	13.122	105	1140860	56.94	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140227\
 Data File : v28222.D
 Acq On : 27 Feb 2014 11:27 am
 Operator : amym
 Sample : cc1058-50
 Misc : MS31132,MSV1058,,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:16:53 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

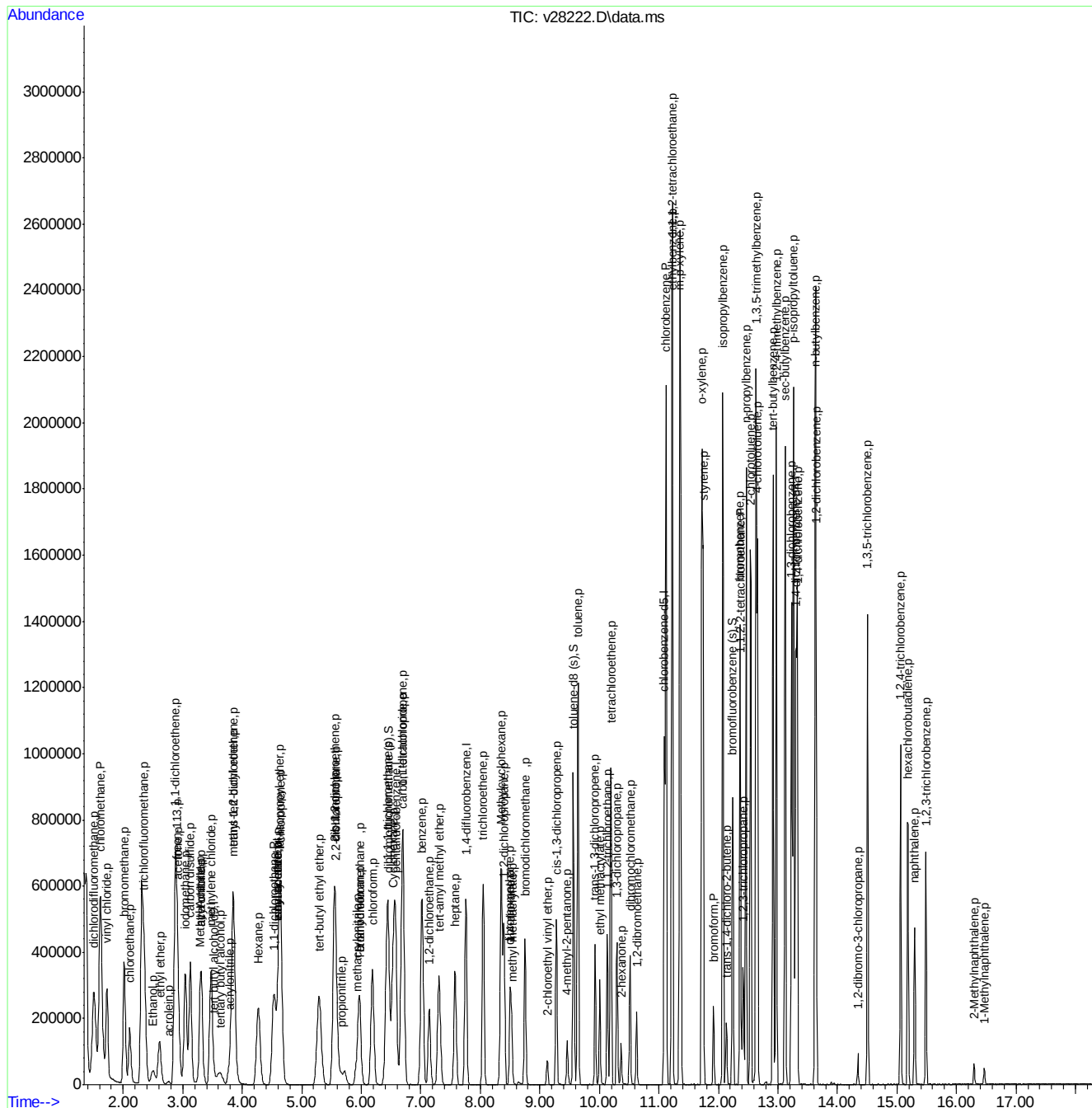
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.230	146	515295	51.66	ug/L	99
94)	p-isopropyltoluene	13.262	119	1042938	57.65	ug/L	97
95)	1,4-dichlorobenzene	13.325	146	495313	50.95	ug/L	99
96)	1,2-dichlorobenzene	13.642	146	465781	49.36	ug/L	99
97)	n-butylbenzene	13.627	91	895701	56.71	ug/L	97
98)	1,2-dibromo-3-chloropr...	14.343	75	19227	44.34	ug/L	90
99)	1,3,5-trichlorobenzene	14.508	180	362523	50.49	ug/L	98
100)	1,2,4-trichlorobenzene	15.063	180	267408	45.38	ug/L	97
101)	hexachlorobutadiene	15.185	225	124217	49.48	ug/L	94
102)	naphthalene	15.298	128	322995	44.12	ug/L	100
103)	1,2,3-trichlorobenzene	15.487	180	178597	42.95	ug/L	100
104)	2-Methylnaphthalene	16.297	142	27464	18.00	ug/L	95
105)	1-Methylnaphthalene	16.468	142	21051	16.11	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140227\
Data File : v28222.D
Acq On : 27 Feb 2014 11:27 am
Operator : amym
Sample : cc1058-50
Misc : MS31132,MSV1058,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:16:53 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



v140226w.m Fri Feb 28 10:06:42 2014

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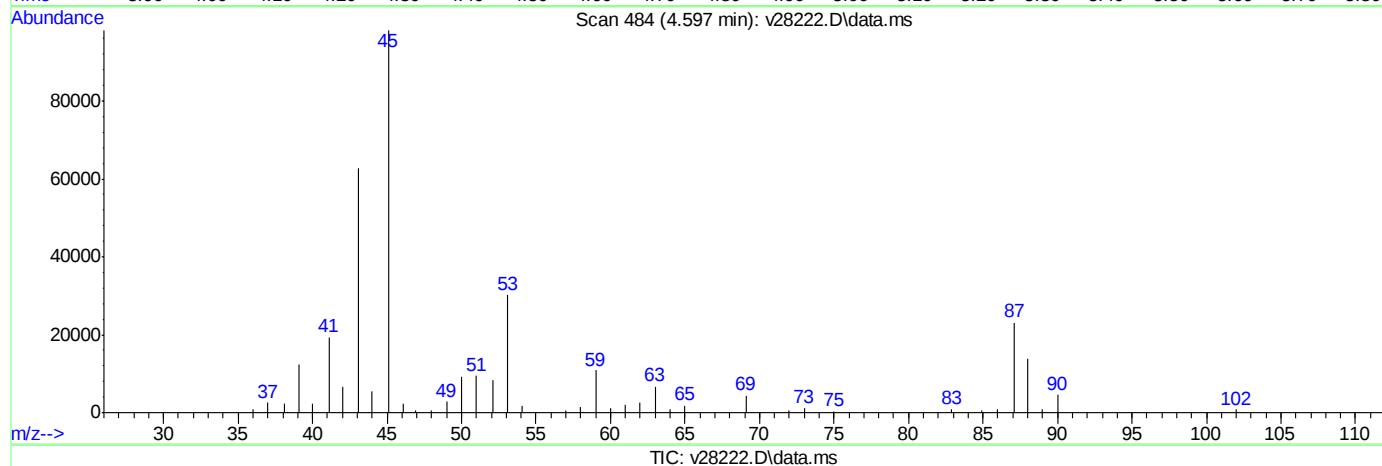
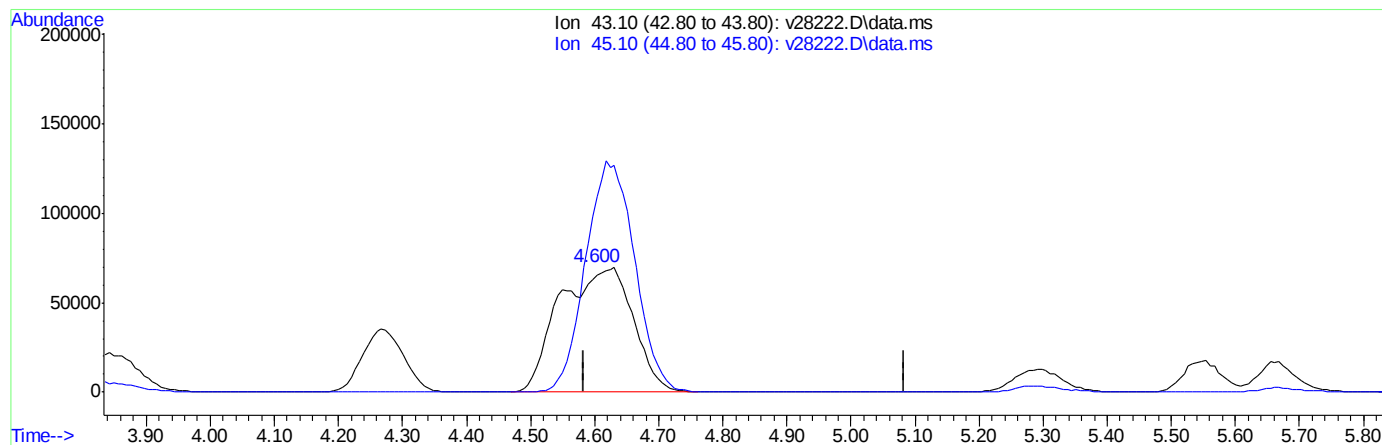
7.6.11



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140227\
Data File : v28222.D
Acq On : 27 Feb 2014 11:27 am
Operator : amym
Sample : bs
Misc : MS31132,MSV1058,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 12:03:08 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.597min (+0.013) 46.54ug/L m

response 556718

Ion	Exp%	Act%
43.10	100	100
45.10	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\V140325\
 Data File : v29025.D
 Acq On : 25 Mar 2014 9:38 am
 Operator : amym
 Sample : cc1058-50
 Misc : MS31383,MSV1088,,,,5,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 26 08:46:00 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.492	65	55829	500.00	ug/L	#-0.02
4) pentafluorobenzene	6.542	168	429248	50.00	ug/L	-0.03
43) 1,4-difluorobenzene	7.727	114	578528	50.00	ug/L	-0.02
66) chlorobenzene-d5	11.071	82	267427	50.00	ug/L	-0.01
80) 1,4-dichlorobenzene-d4	13.285	152	271362	50.00	ug/L	-0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.419	113	218629	37.09	ug/L	-0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	74.18%		
60) toluene-d8 (s)	9.542	98	651033	44.48	ug/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.96%		
82) bromofluorobenzene (s)	12.221	95	242140	44.60	ug/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.20%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.603	59	73797	531.39	ug/L	# 56
3) Ethanol	2.485	45	95479	4502.29	ug/L	# 100
5) dichlorodifluoromethane	1.487	85	439346	37.60	ug/L	98
6) chloromethane	1.606	50	355532	39.80	ug/L	99
7) vinyl chloride	1.715	62	367292	44.18	ug/L	98
8) bromomethane	2.003	96	300606	43.03	ug/L	99
9) chloroethane	2.095	64	165119	40.33	ug/L	100
10) ethyl ether	2.592	59	124726	40.27	ug/L	97
11) acetonitrile	3.279	41	321910	42.57	ug/L	88
12) trichlorofluoromethane	2.330	101	569060	42.86	ug/L	100
13) freon-113	2.882	101	335233	48.83	ug/L	96
14) acrolein	2.742	56	91419	341.87	ug/L	94
15) 1,1-dichloroethene	2.854	96	255362	46.63	ug/L	96
16) acetone	2.889	58	14262	45.94	ug/L	# 47
17) Methyl Acetate	3.264	43	67974	38.30	ug/L	99
18) methylene chloride	3.448	84	240561	43.10	ug/L	93
19) methyl tert butyl ether	3.821	73	434990	43.24	ug/L	94
20) acrylonitrile	3.764	53	38645	40.91	ug/L	92
21) allyl chloride	3.279	41	321910	42.57	ug/L	93
22) trans-1,2-dichloroethene	3.818	96	243597	43.01	ug/L	98
23) iodomethane	3.019	142	614082	43.08	ug/L	95
24) carbon disulfide	3.104	76	795592	42.48	ug/L	100
25) propionitrile	5.621	54	11167	40.65	ug/L	100
26) vinyl acetate	4.562	43	533231	42.57	ug/L	88
27) chloroprene	4.601	53	305571	43.18	ug/L	89
28) di-isopropyl ether	4.589	45	666641	45.47	ug/L	94
29) methacrylonitrile	5.897	41	61492	40.45	ug/L	85
30) 2-butanone	5.510	72	13193	46.68	ug/L	# 71
31) Hexane	4.235	41	195965	40.70	ug/L	# 75
32) 1,1-dichloroethane	4.491	63	411136	42.38	ug/L	99
33) tert-butyl ethyl ether	5.254	59	495671	46.10	ug/L	98
34) isobutyl alcohol	4.562	43	533231	213.93	ug/L	58
35) 2,2-dichloropropane	5.527	77	351121	43.36	ug/L	92
36) cis-1,2-dichloroethene	5.510	96	236109	44.24	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
 Data File : v29025.D
 Acq On : 25 Mar 2014 9:38 am
 Operator : amym
 Sample : cc1058-50
 Misc : MS31383,MSV1088,,,,5,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 26 08:46:00 2014
 Quant Method : C:\msdchem\1\METHODS\v140226w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Feb 27 09:00:59 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	533247m	42.30	ug/L	
38) bromochloromethane	5.931	128	105557	42.19	ug/L	95
39) chloroform	6.149	83	446565	41.55	ug/L	100
41) Tetrahydrofuran	5.937	42	20572	40.24	ug/L	99
42) 1,1,1-trichloroethane	6.396	97	477859	45.68	ug/L	96
44) Cyclohexane	6.503	56	344165	47.54	ug/L	97
45) carbon tetrachloride	6.651	117	458758	49.31	ug/L	99
46) 1,1-dichloropropene	6.664	75	283000	45.88	ug/L	98
47) benzene	6.983	78	702204	45.44	ug/L	97
48) 1,2-dichloroethane	7.108	62	256155	40.73	ug/L	97
49) tert-amyl methyl ether	7.274	73	347235	50.41	ug/L	95
50) heptane	7.545	43	190212	45.53	ug/L	92
51) trichloroethene	8.020	95	226402	45.14	ug/L	97
52) 1,2-dichloropropane	8.369	63	176973	48.25	ug/L	99
53) dibromomethane	8.473	93	97289	42.92	ug/L	91
54) bromodichloromethane	8.725	83	256211	43.53	ug/L	100
55) Methylcyclohexane	8.324	83	319861	48.95	ug/L	99
56) 2-chloroethyl vinyl ether	9.102	63	23071	33.75	ug/L	98
57) methyl methacrylate	8.503	69	52424	44.10	ug/L	86
58) 1,4-dioxane	8.481	88	3664	203.52	ug/L	78
59) cis-1,3-dichloropropene	9.254	75	238554	44.33	ug/L	94
61) 4-methyl-2-pentanone	9.438	43	78784	43.22	ug/L	91
62) toluene	9.618	92	471451	49.89	ug/L	99
63) trans-1,3-dichloropropene	9.907	75	171912	51.50	ug/L	95
64) 1,1,2-trichloroethane	10.111	83	95799	45.91	ug/L	98
65) ethyl methacrylate	9.986	69	128308	46.78	ug/L	89
67) tetrachloroethene	10.172	166	248542	53.25	ug/L	98
68) 1,3-dichloropropane	10.274	76	185717	47.39	ug/L	97
69) dibromochloromethane	10.495	129	167171	44.57	ug/L	98
70) 1,2-dibromoethane	10.604	107	114324	47.92	ug/L	94
71) 2-hexanone	10.346	43	61192	47.81	ug/L	87
72) chlorobenzene	11.101	112	585201	49.90	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.201	131	240928	50.77	ug/L	97
74) ethylbenzene	11.206	91	1028365	51.63	ug/L	96
75) m,p-xylene	11.337	106	755056	105.50	ug/L	91
76) o-xylene	11.704	106	391309	53.17	ug/L	89
77) styrene	11.725	104	555486	51.45	ug/L	95
78) bromoform	11.899	173	75617	41.49	ug/L	100
79) trans-1,4-dichloro-2-b...	12.116	53	27133	33.91	ug/L #	66
81) isopropylbenzene	12.056	105	1133916	56.11	ug/L	97
83) bromobenzene	12.346	156	238118	51.78	ug/L	93
84) 1,1,2,2-tetrachloroethane	12.351	83	122495	47.59	ug/L	98
85) 1,2,3-trichloropropane	12.390	75	152202	57.40	ug/L	99
86) n-propylbenzene	12.445	91	1245957	54.70	ug/L	98
87) 2-chlorotoluene	12.524	91	781688	51.68	ug/L	99
88) 4-chlorotoluene	12.635	91	849766	50.64	ug/L	98
89) 1,3,5-trimethylbenzene	12.614	105	940646	53.87	ug/L	97
90) tert-butylbenzene	12.900	91	524501	52.20	ug/L	100
91) 1,2,4-trimethylbenzene	12.954	105	939573	53.05	ug/L	99
92) sec-butylbenzene	13.103	105	1108642	55.39	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29025.D
Acq On : 25 Mar 2014 9:38 am
Operator : amym
Sample : cc1058-50
Misc : MS31383,MSV1088,,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 26 08:46:00 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration

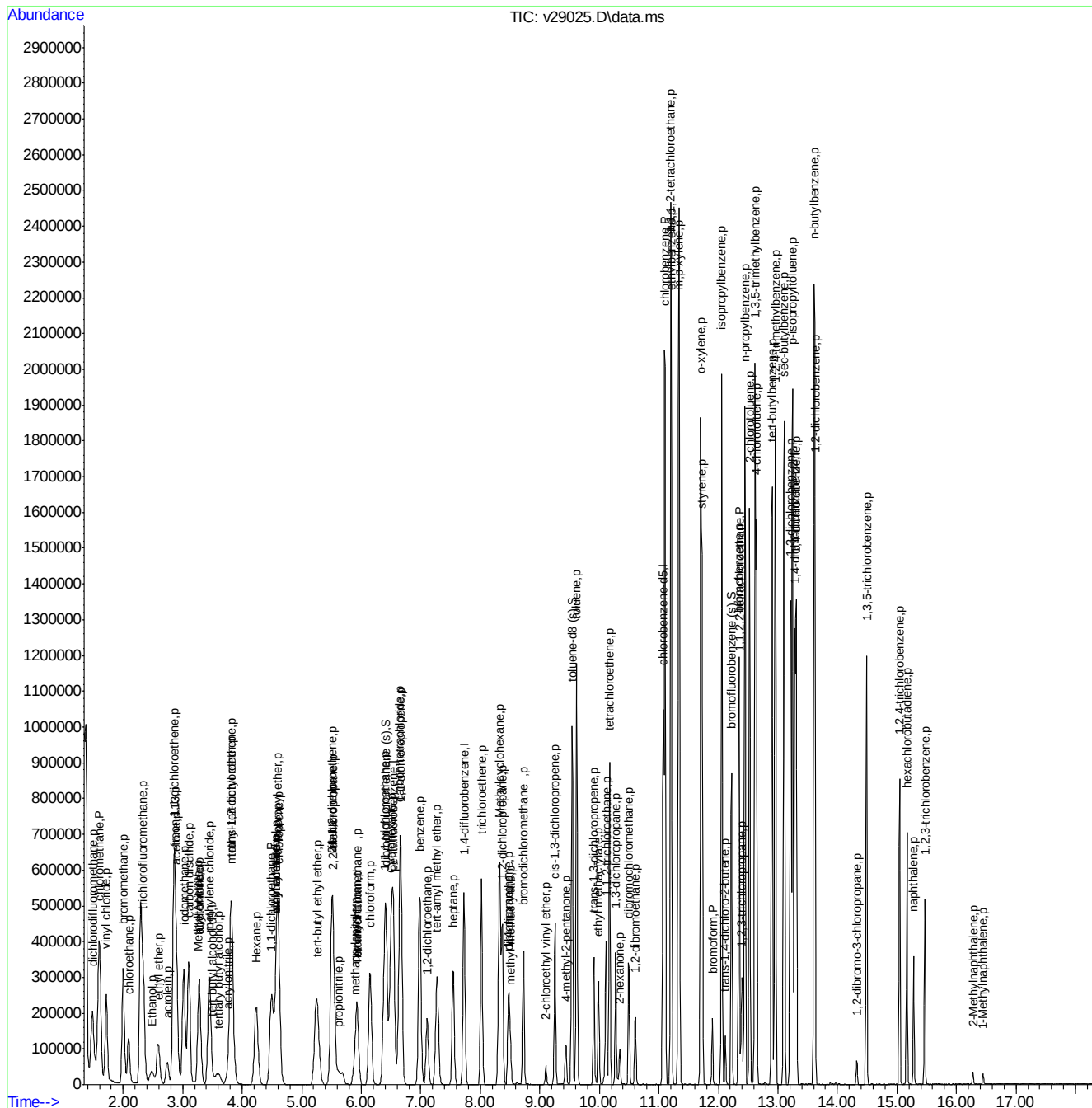
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.211	146	493635	49.55	ug/L	99
94)	p-isopropyltoluene	13.245	119	982036	54.34	ug/L	99
95)	1,4-dichlorobenzene	13.307	146	461212	47.49	ug/L	98
96)	1,2-dichlorobenzene	13.624	146	436912	46.35	ug/L	98
97)	n-butylbenzene	13.610	91	823092	52.17	ug/L	100
98)	1,2-dibromo-3-chloropr...	14.325	75	14426	33.91	ug/L	79
99)	1,3,5-trichlorobenzene	14.490	180	331195	46.17	ug/L	98
100)	1,2,4-trichlorobenzene	15.046	180	219540	37.29	ug/L	98
101)	hexachlorobutadiene	15.167	225	109113	43.51	ug/L	98
102)	naphthalene	15.280	128	233196	31.89	ug/L	100
103)	1,2,3-trichlorobenzene	15.469	180	138073	33.24	ug/L	100
104)	2-Methylnaphthalene	16.278	142	17033	15.00	ug/L	100
105)	1-Methylnaphthalene	16.449	142	14372	13.33	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29025.D
Acq On : 25 Mar 2014 9:38 am
Operator : amym
Sample : cc1058-50
Misc : MS31383,MSV1088,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 26 08:46:00 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



v140226w.m Wed Mar 26 08:58:47 2014

Page: 4

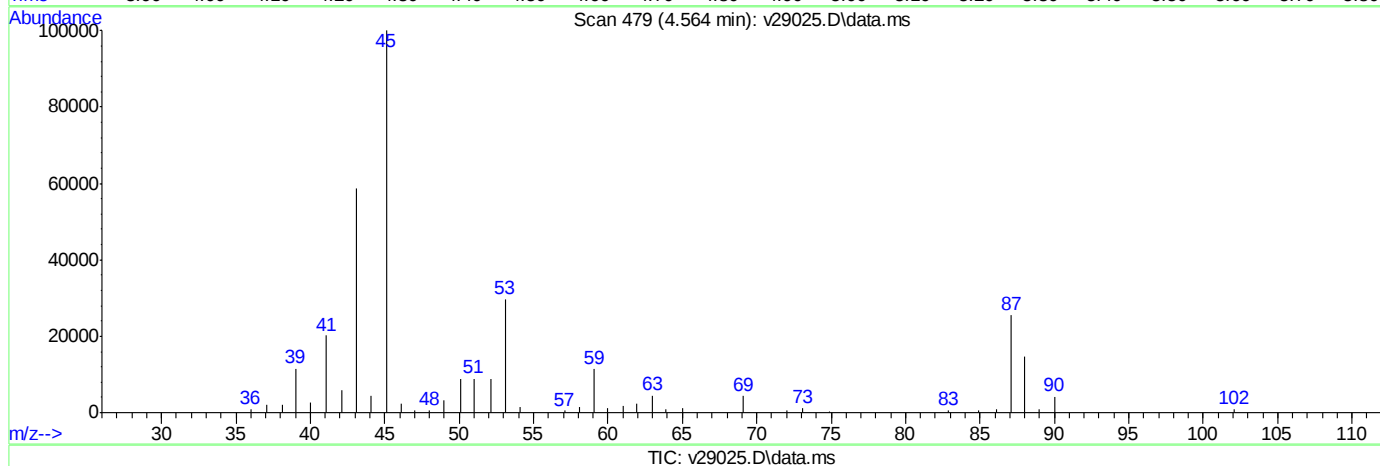
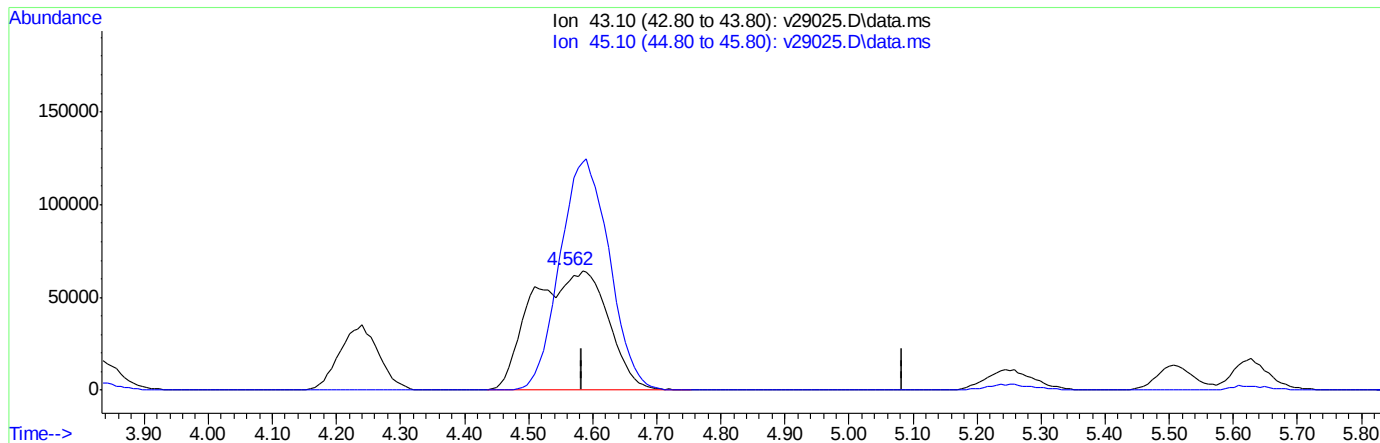
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140325\
Data File : v29025.D
Acq On : 25 Mar 2014 9:38 am
Operator : amym
Sample : bfb
Misc : MS31383,MSV1088,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 10:08:36 2014
Quant Method : C:\msdchem\1\METHODS\v140226w.m
Quant Title : SW-846 Method 8260
QLast Update : Thu Feb 27 09:00:59 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (-0.020) 42.30ug/L m

response 533247

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

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS 9617	V286 Cal STD	200 ug/L
9604	Cal Gas	
9587	BS STD	
9588	BS Gas	
9524	SS	
9558	SS	200 ug/L

Daily Saved File

Tune file 1:	V28201
Tune file 2:	NA
Initial Cal:	02/26/14
ID File:	V190226W
ICAL Verified:	V28222
Sequence verified:	2

Date: 2/26/14

Batch ID: MSV1058

Analysts: Ag Yang

Signature: [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#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V28191	NA	NA	NA	NA	1	NA	NA	NA	1:	NA	
92					2						
93					3						
94	test 0.5				4						
95	5				5						
96	400				6						
97	NA				7						
98	test 5				8						
99	400				9						
V28200	NA				10						
01	BFB				11						
02	NA				12						
03	IC1058-0.5	2.2	MS 9617/NA		13						
04	-0.5				14						
05	-1				15						
06	-2				16						
07	-5				17						
08	-10				18						
09	IC1058-50				19						
10	IC1058-400				20						
11	-200				21						
12	-400				22						
13	NA	NA	NA		23						
14					24						
15	IC1058-50	2.2	MS 9587/NA		25						
16					26						
											2/27/14

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.

MS001-05 Date: 07/22/13

Review: [Signature]

Standards Data

Daily Saved File

Lot #	Description	Conc
MS 9617	1/26 Cal STD	200.44/100
9604	Cal Gas	
9587	BS STD	
9588	BS Gas	
9559	25/55	210.44/100

Tune file 1:	V-2822
Tune file 2:	NA
Initial Cal:	02626/14
ID File:	V140256W
ICAL Verified:	V-28222
Sequence verified:	✓

Date: 2/27/14
 Batch ID: MSV 1058(1)
 Analysts: Am Yang
 Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V-28217	NA	NA	NA	NA	1	NA	NA	NA	1:	NA	
18					2						
19					3						
20					4						
21					5						
22	MCW 1058-50	2, 2	MS 9587/1058		6						
23	HS				7						
24	NA	NA	NA		8						
25					9						
26	MB				10						
27	MCW 7845-7	NA	MS 9617/7845	200/200	11						
28					12						
29					13						
30					14						
31					15						
32					16						
33					17						
34					18						
35	MCW 7845-14				19						
36					20						
37					21						
38					22						
39					23						
40					24						
41					25						
42					26						

2/28/14 [Signature]

= 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.

11-05 Date: 07/22/13

Review: [Signature]

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS 9640	V B60 Cal STD	200 ug/ml
9625	Cal Gas	
9626	BS STD	
9627	BS Gas	
9638	25/55	250 ug/ml

Daily Saved File

Tune file 1:	V29025
Tune file 2:	NA
Initial Cal:	02/26/14
ID File:	V140226W
ICAL Verified:	25
Sequence verified:	6K

Date: 3/25/14

Batch ID: MSV1088

Analysts: Amy Yang

Signature: [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#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V29025	CC/058-10	1.2	MS9640/9625	NA	1		5ml	NA	1:1	1.1	
	26	2.2	MS9626/9627		2						
	27	NA	NA		3						
	28				4						
	29				5						
	30	1	MS31386	V B60 STD	6	WFB					
	31	1			7						
	32	5			8	MFB					
	33	2	MS31373	V B60 STAR	9	AW					
	34	2			10						
	35	4	MS31386	V B60 STD	11						
	36	4			12						
	37	2	MS31373	V B60 STAR	13						
	38	1	MS31386	V B60 STD	14				1:100	NA	RR = 1:20
	39				15				1:1	<2	SJ'
	40				16						
	41				17						
	42				18						
	43				19						
	44				20						
	45				21						
	46				22						
	47				23						
	48				24						
	49				25						
	50	3			26				1:5		
	51				27						
	52	NA	NA	NA	28				1:1	NA	
	53				29						

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.

MS001-05 Date: 07/22/13

Review: [Signature]

ATTACHMENT 2

Data Usability Summary Report

Stantec Data Usability Summary Report**Report No. 041014-EC-01**

Project Name: Lockheed, Utica, NY	Project Number: 190500800		
Stantec Validator: Elizabeth Crowley	Laboratory: Accutest – Marlborough, MA		
Date Validated: 04/09/14	Laboratory Project Number: MC29101		
Sample Start-End Date: 03/19/14	Laboratory Report Date: 04/01/14		
Parameters Validated: Volatile Organic Compounds by EPA SW-846 8260B			
Samples Validated: 12 aqueous field samples and 1 Trip Blank – See Samples Validated Table			
VALIDATION CRITERIA CHECK			
Data review based on <i>Quality Assurance Program Plan, Solvent Deck Area, Former French Road Facility, Utica, NY</i> October 14, 2009, <i>USEPA National Functional Guidelines</i> (USEPA, 1999b), USEPA Region II SOPs and NYSDEC ASP 2005 – Tier III Validation			
Validation Flags Applicable to this Review:			
U	The analyte was analyzed for, but not detected above the reported sample quantitation limit.		
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.		
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.		
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification”.		
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.		
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.		
B	The analyte was detected in the method, field and/or trip blank.		
1.	Were all the analyses requested for the samples submitted with each COC completed by the lab?	Yes X	No
Comments:			
2.	Did the laboratory identify any non-conformances related to the analytical result?	Yes X	No
Comments: Refer to laboratory report.			
3.	Were sample Chain-of-Custody forms complete?	Yes X	No
Comments:			
4.	Were samples received in good condition and at the appropriate temperature?	Yes X	No
Comments:			
5.	Were sample holding times met?	Yes X	No
Comments:			
6.	Were correct concentration units reported?	Yes X	No
Comments:			

7. Were detections found in laboratory blank samples?	Yes	No X
Comments:		
8. Were detections found in field blank, equipment rinse blank, and/or trip blank samples?	Yes	No X
Comments:		
9. Were instrument calibrations within method criteria?	Yes	No X
Comments: Instrument GCMSV – ICAL dated 02/26/14 – RRF <0.050 limit for acetone and 2-butanone. Associated sample results flagged “R”. Reason Code – ICAL Instrument GCMSV – ICV dated 02/26/14 – RRF <0.05 for acetone and 2-butanone. %D ±25% for 2-hexanone. Associated non-detect sample results flagged “UJ”. All 2-hexanone sample results non-detect. Acetone and 2-butanone previously rejected. Reason Code – ICV Instrument GCMSV – CCAL dated 03/25/14 – RRF <0.05 for acetone and 2-butanone. Associated results previously rejected. %D ±25% limits for 1,2-dibromo-3-chloropropane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene and naphthalene. Associated non-detect sample results flagged “UJ”. Associated results non-detect for all four analytes. Reason Code – CCAL		
10. Were surrogate recoveries within 70-130% control limits?	Yes X	No
Comments:		
11. Were laboratory control (LC/LD) sample recoveries within 70-130% control limits?	Yes	No X
Comments: Batch MSV1088 - %R below 70% limit for acetone and dichlorodifluoromethane. Associated non-detect dichlorodifluoromethane sample results flagged “UJ”. All sample results non-detect. Acetone results previously rejected. Reason Code – LCS		
12. Were site specific matrix spike (MS/MD) recoveries within 70-130% control limits?	Yes NA	No
Comments: Site specific MS/MD sample not analyzed, non-specific sample analyzed. MS/DS %Rs below 70% limit for acetone, 2-butanone, 2-hexanone, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, dichlorodifluoromethane and naphthalene. Laboratory control sample within limits for all analytes except dichlorodifluoromethane and acetone. No qualifying action required since acetone and dichlorodifluoromethane results previously qualified.		
13. Were RPDs within 30% control limit?	Yes	No X
Comments: MS/DS RPD >30% for naphthalene and 1,2,3-trichlorobenzene. Associated sample results non-detect. No qualifying action required.		
14. Were dilutions required on any samples?	Yes	No X
Comments:		
15. Were Tentatively Identified Compounds (TIC) present?	Yes	No X
Comments:		

16. Were organic system performance/instrument tune criteria met?	Yes X	No
Comments:		
17. Were GC/MS internal standards within method criteria?	Yes X	No
Comments:		
18. Were inorganic method performance criteria met?	Yes	No
NA		
Comments: No inorganic analyses requested.		
19. Were field duplicates collected? If so, discuss the precision (RPD) of the results.	Yes X	No
Duplicate Sample Nos. MW-22FD MW-22		
Comments: All sample results non-detect, RPD within $\pm 25\%$ limit.		
20. Were at least 10 percent of the hard copy results compared to the Electronic Data Deliverable Results?	Yes X	No Initials EAC
Comments:		
21. Other:	Yes	No X
Comments:		
PRECISION, ACCURACY, METHOD COMPLIANCE AND COMPLETENESS ASSESSMENT Data are usable as flagged. See Form 1s for flagged data.		
Precision:	Acceptable X	Unacceptable Initials EAC
Comments:		
Sensitivity:	Acceptable X	Unacceptable Initials EAC
Comments:		
Accuracy:	Acceptable X	Unacceptable Initials EAC
Comments:		
Representativeness:	Acceptable X	Unacceptable Initials EAC
Comments:		
Method Compliance:	Acceptable X	Unacceptable Initials EAC
Comments:		
Completeness:	Acceptable X	Unacceptable Initials EAC
Comments:		